

# LTE Band30 Test Data

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## Appendix A: Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	Verdict
Band30	5MHz	QPSK	27685	1RB#0	21.28	PASS
Band30	5MHz	QPSK	27685	1RB#12	20.87	PASS
Band30	5MHz	QPSK	27685	1RB#24	20.79	PASS
Band30	5MHz	QPSK	27685	12RB#0	19.78	PASS
Band30	5MHz	QPSK	27685	12RB#6	19.78	PASS
Band30	5MHz	QPSK	27685	12RB#13	19.66	PASS
Band30	5MHz	QPSK	27685	25RB#0	19.63	PASS
Band30	5MHz	QPSK	27710	1RB#0	20.81	PASS
Band30	5MHz	QPSK	27710	1RB#12	20.74	PASS
Band30	5MHz	QPSK	27710	1RB#24	20.69	PASS
Band30	5MHz	QPSK	27710	12RB#0	19.71	PASS
Band30	5MHz	QPSK	27710	12RB#6	19.68	PASS
Band30	5MHz	QPSK	27710	12RB#13	19.59	PASS
Band30	5MHz	QPSK	27710	25RB#0	19.64	PASS
Band30	5MHz	QPSK	27735	1RB#0	20.90	PASS
Band30	5MHz	QPSK	27735	1RB#12	20.75	PASS
Band30	5MHz	QPSK	27735	1RB#24	20.78	PASS
Band30	5MHz	QPSK	27735	12RB#0	19.64	PASS
Band30	5MHz	QPSK	27735	12RB#6	19.60	PASS
Band30	5MHz	QPSK	27735	12RB#13	19.66	PASS
Band30	5MHz	QPSK	27735	25RB#0	19.59	PASS
Band30	5MHz	16QAM	27685	1RB#0	19.86	PASS
Band30	5MHz	16QAM	27685	1RB#12	19.76	PASS
Band30	5MHz	16QAM	27685	1RB#24	19.72	PASS
Band30	5MHz	16QAM	27685	12RB#0	18.84	PASS
Band30	5MHz	16QAM	27685	12RB#6	18.74	PASS
Band30	5MHz	16QAM	27685	12RB#13	18.68	PASS
Band30	5MHz	16QAM	27685	25RB#0	18.65	PASS
Band30	5MHz	16QAM	27710	1RB#0	19.81	PASS
Band30	5MHz	16QAM	27710	1RB#12	19.59	PASS
Band30	5MHz	16QAM	27710	1RB#24	19.62	PASS
Band30	5MHz	16QAM	27710	12RB#0	18.68	PASS
Band30	5MHz	16QAM	27710	12RB#6	18.72	PASS

Band30	5MHz	16QAM	27710	12RB#13	18.59	PASS
Band30	5MHz	16QAM	27710	25RB#0	18.65	PASS
Band30	5MHz	16QAM	27735	1RB#0	19.82	PASS
Band30	5MHz	16QAM	27735	1RB#12	19.81	PASS
Band30	5MHz	16QAM	27735	1RB#24	19.80	PASS
Band30	5MHz	16QAM	27735	12RB#0	18.67	PASS
Band30	5MHz	16QAM	27735	12RB#6	18.63	PASS
Band30	5MHz	16QAM	27735	12RB#13	18.64	PASS
Band30	5MHz	16QAM	27735	25RB#0	18.58	PASS
Band30	10MHz	QPSK	27710	1RB#0	20.96	PASS
Band30	10MHz	QPSK	27710	1RB#24	20.68	PASS
Band30	10MHz	QPSK	27710	1RB#49	20.63	PASS
Band30	10MHz	QPSK	27710	25RB#0	19.75	PASS
Band30	10MHz	QPSK	27710	25RB#12	19.75	PASS
Band30	10MHz	QPSK	27710	25RB#25	19.75	PASS
Band30	10MHz	QPSK	27710	50RB#0	19.78	PASS
Band30	10MHz	16QAM	27710	1RB#0	19.96	PASS
Band30	10MHz	16QAM	27710	1RB#24	19.56	PASS
Band30	10MHz	16QAM	27710	1RB#49	19.66	PASS
Band30	10MHz	16QAM	27710	25RB#0	18.72	PASS
Band30	10MHz	16QAM	27710	25RB#12	18.80	PASS
Band30	10MHz	16QAM	27710	25RB#25	18.73	PASS
Band30	10MHz	16QAM	27710	50RB#0	18.77	PASS

## Appendix B: Peak-to-Average Ratio(CCDF)

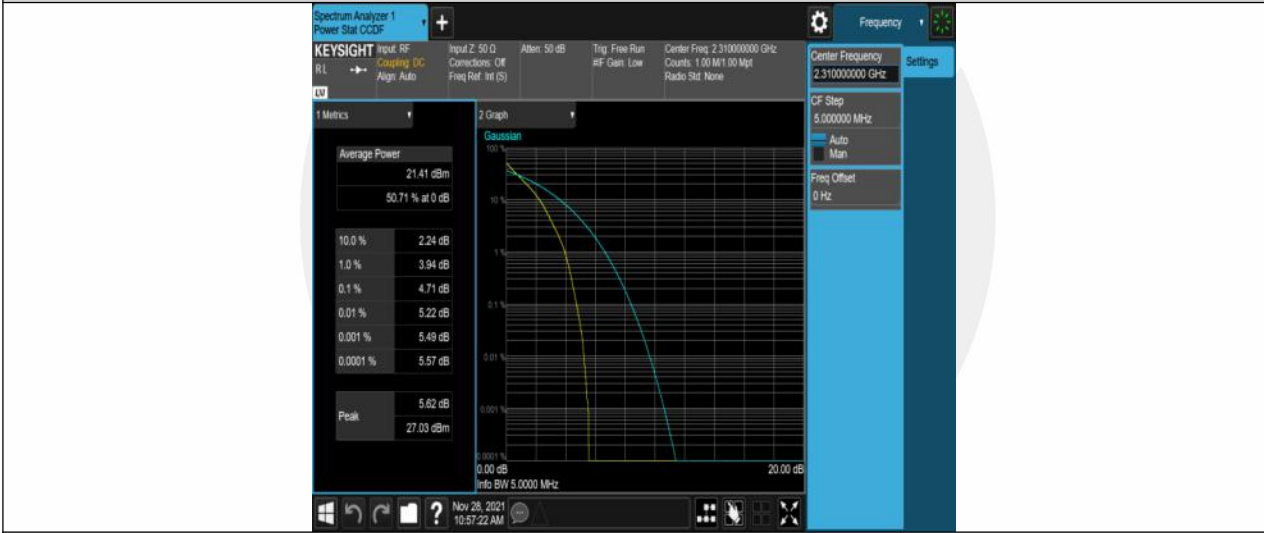
### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	4.74	13	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.71	13	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.80	13	PASS
Band30	5MHz	16QAM	27685	25RB#0	5.46	13	PASS
Band30	5MHz	16QAM	27710	25RB#0	5.41	13	PASS
Band30	5MHz	16QAM	27735	25RB#0	5.52	13	PASS
Band30	10MHz	QPSK	27710	50RB#0	4.56	13	PASS
Band30	10MHz	16QAM	27710	50RB#0	5.84	13	PASS

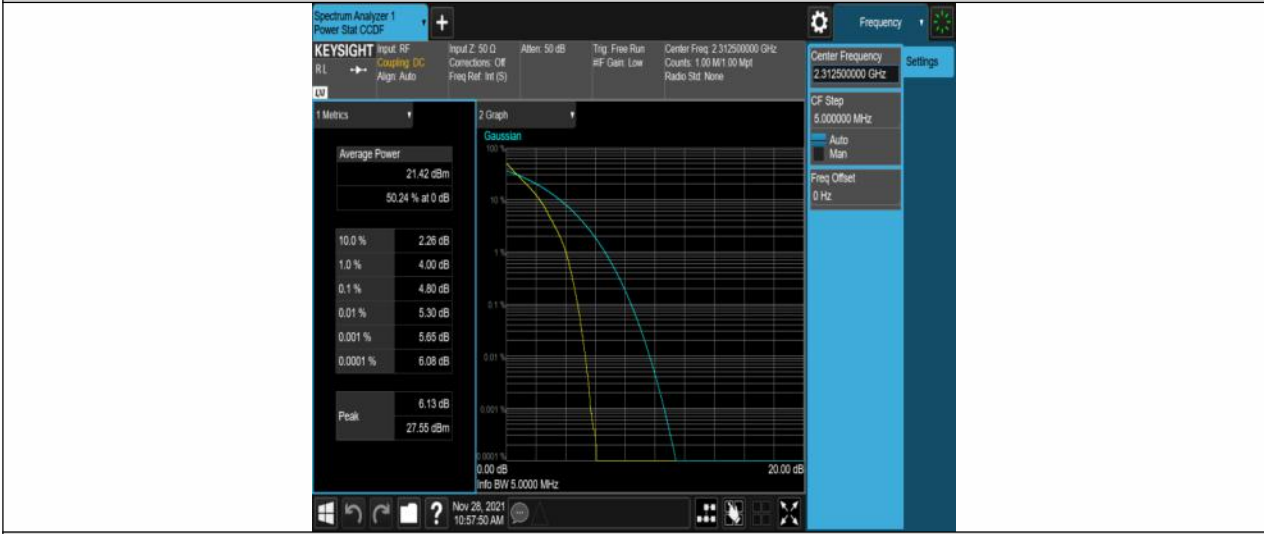
### Test Graphs



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



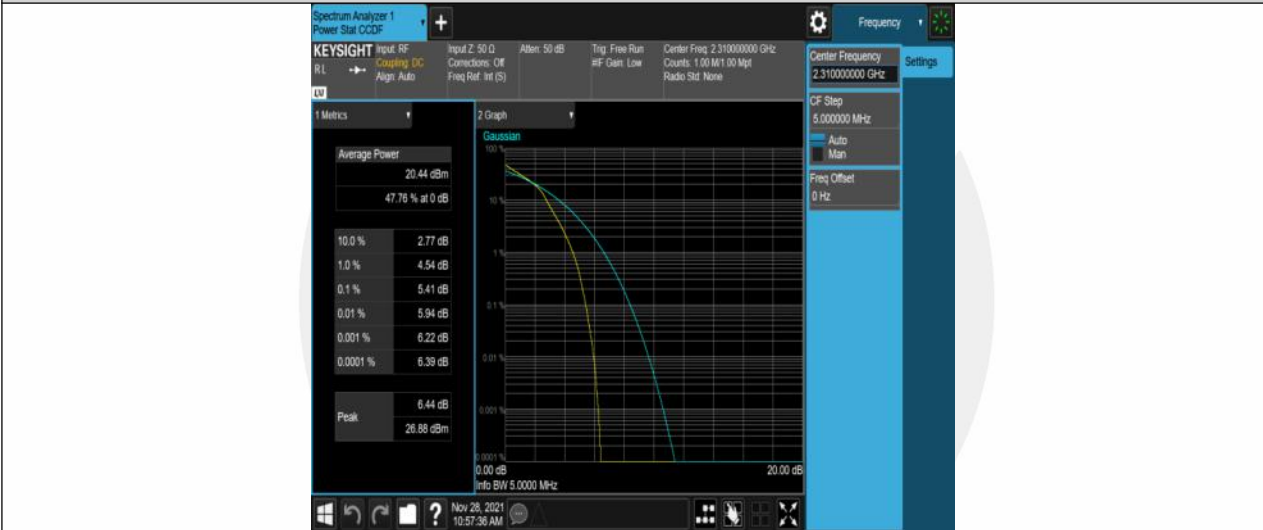
Band30-5MHz-QPSK-27710-25RB#0



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



Band30-5MHz-16QAM-27685-25RB#0



Band30-5MHz-16QAM-27710-25RB#0



Band30-5MHz-16QAM-27735-25RB#0





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



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

## Appendix C: 26dB Bandwidth and Occupied Bandwidth

### Test Result

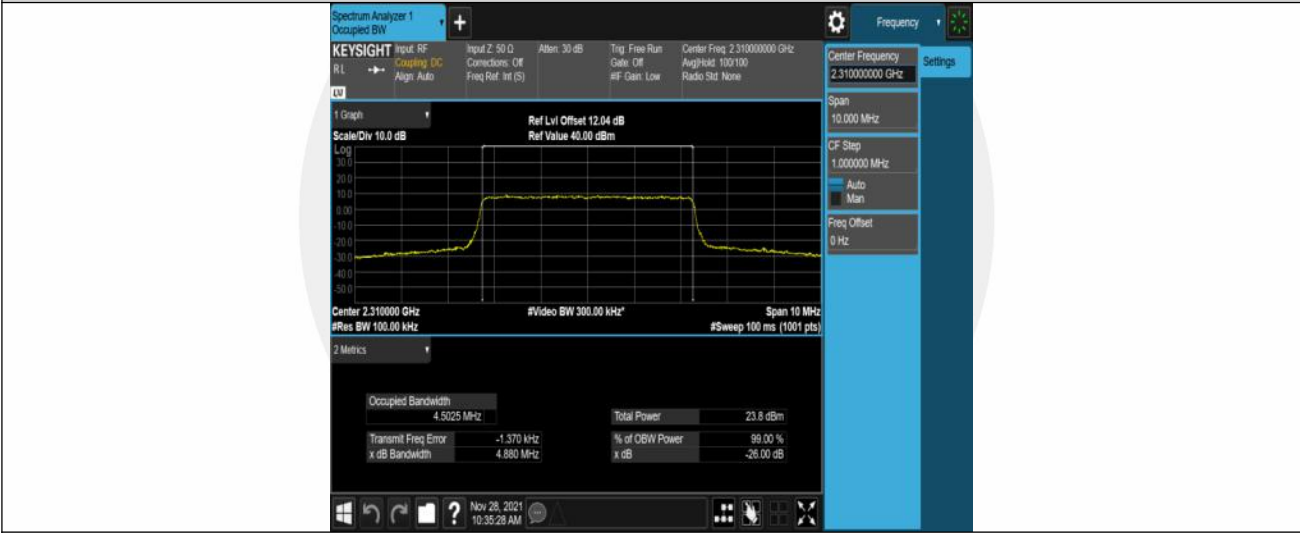
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	4.4992	4.883	PASS
Band30	5MHz	QPSK	27710	25RB#0	4.5025	4.880	PASS
Band30	5MHz	QPSK	27735	25RB#0	4.5028	4.875	PASS
Band30	5MHz	16QAM	27685	25RB#0	4.5004	4.842	PASS
Band30	5MHz	16QAM	27710	25RB#0	4.4996	4.894	PASS
Band30	5MHz	16QAM	27735	25RB#0	4.5084	4.859	PASS
Band30	10MHz	QPSK	27710	50RB#0	8.9795	9.586	PASS
Band30	10MHz	16QAM	27710	50RB#0	8.9616	9.531	PASS



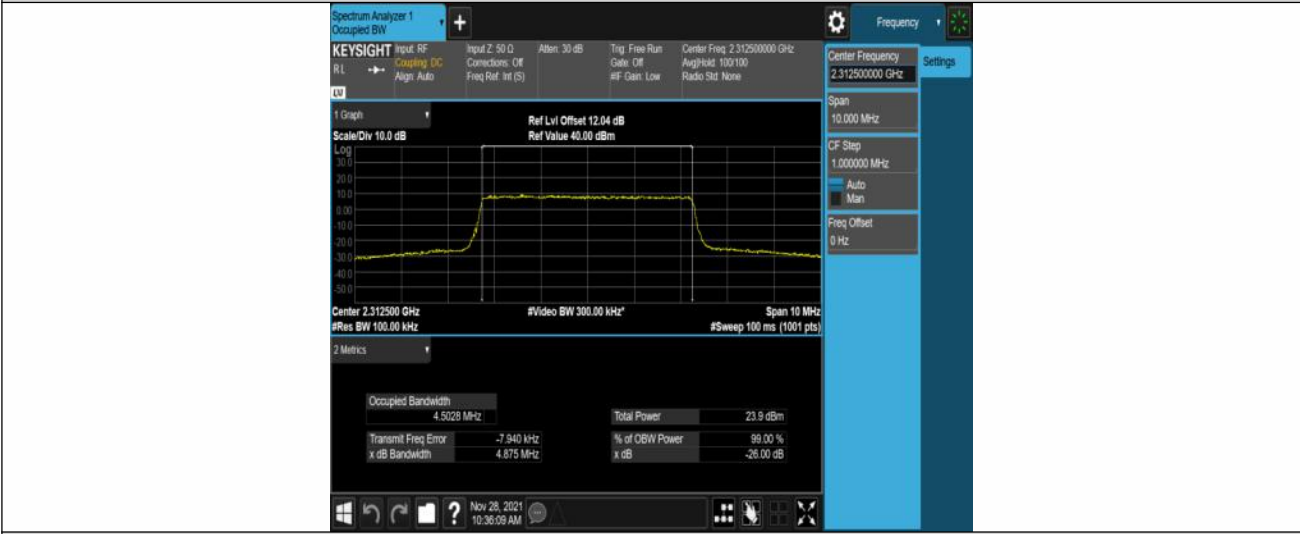
## Test Graphs



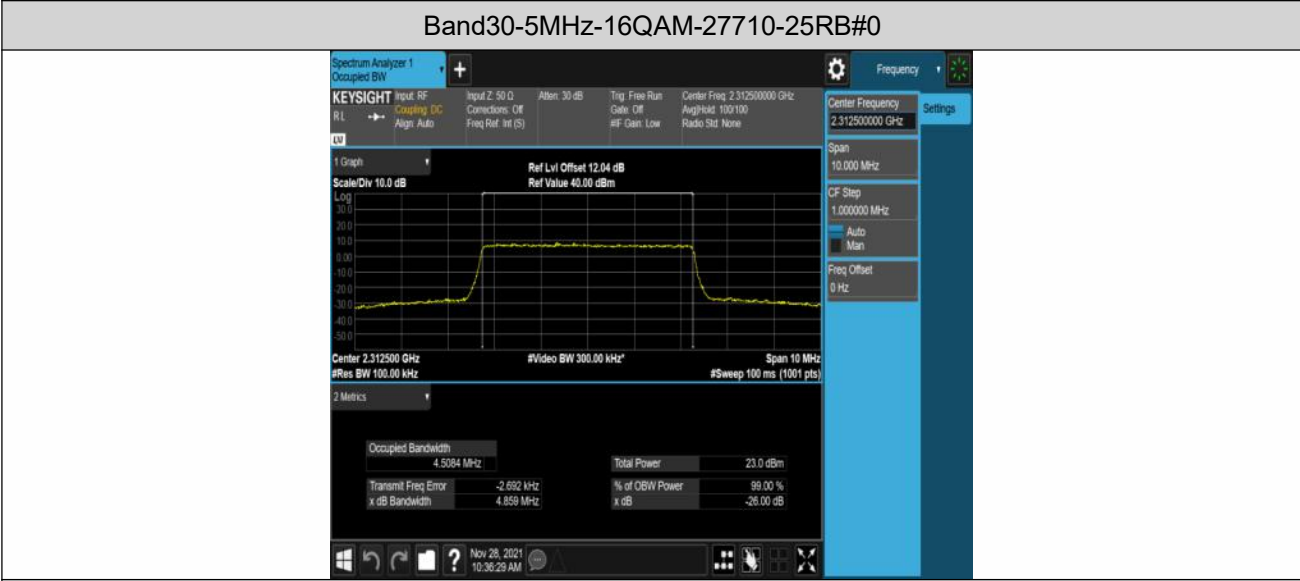
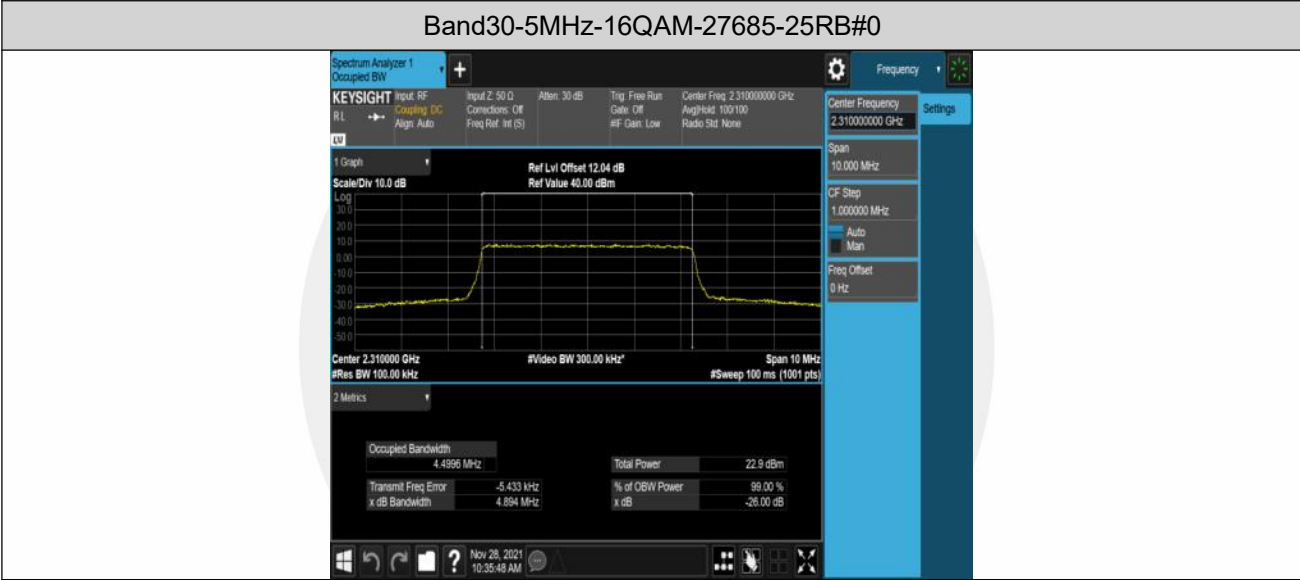
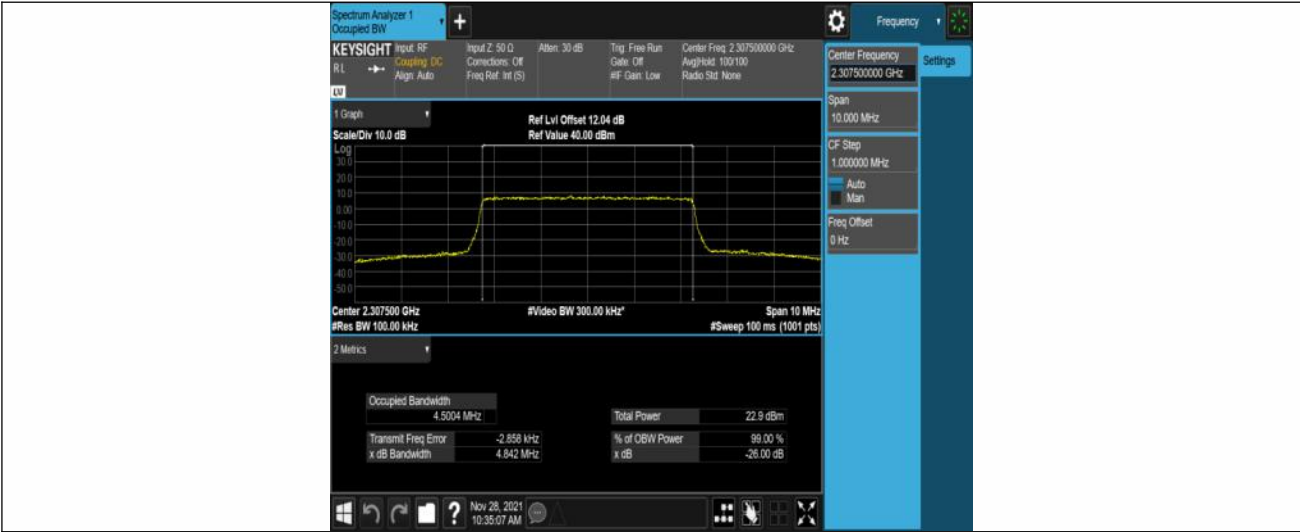
Band30-5MHz-QPSK-27685-25RB#0

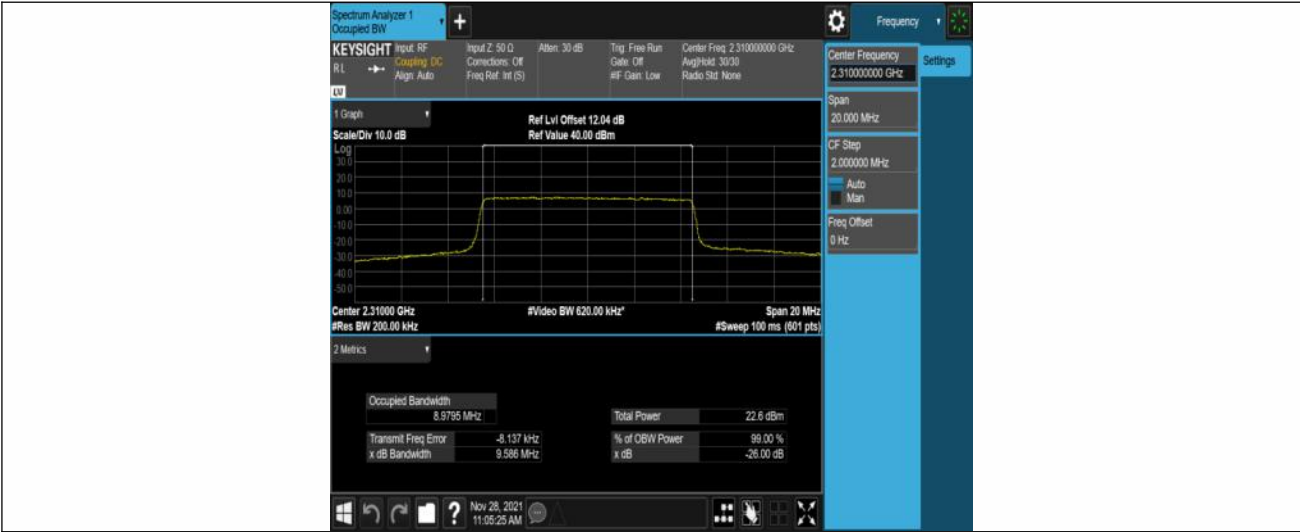


Band30-5MHz-QPSK-27710-25RB#0

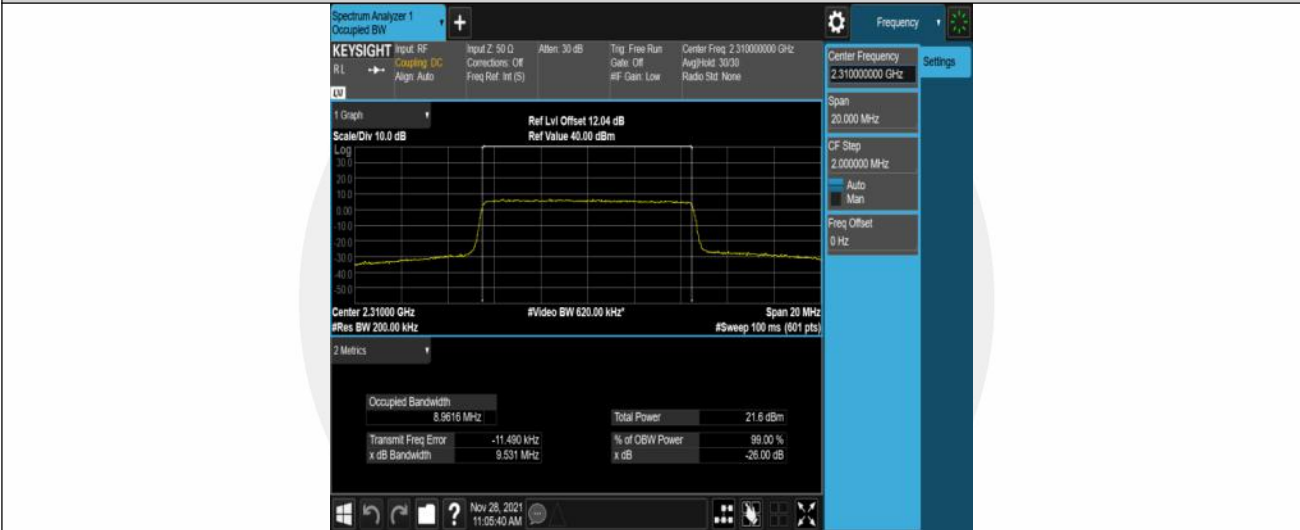


Band30-5MHz-QPSK-27735-25RB#0





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



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

## Appendix D: Band Edge

### Test Result

Band	Bandwidth	Modulation	Channel	RB Config.	Result (dBm)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	-24.50	PASS
Band30	5MHz	QPSK	27735	25RB#0	-24.51	PASS
Band30	5MHz	16QAM	27685	25RB#0	-27.01	PASS
Band30	5MHz	16QAM	27735	25RB#0	-26.19	PASS
Band30	10MHz	QPSK	27710	50RB#0	-25.86,-24.82	PASS
Band30	10MHz	16QAM	27710	50RB#0	-28.63,-27.53	PASS



## Test Graphs



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



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



Band30-5MHz-16QAM-27685-25RB#0





Band30-5MHz-16QAM-27735-25RB#0



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



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

## Appendix E: Conducted Spurious Emission

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Frequency Range	Result (dBm)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	Range1:30~1000MHz	-56.97	PASS
Band30	5MHz	QPSK	27685	25RB#0	Range2:1000~2288MHz	-53.23	PASS
Band30	5MHz	QPSK	27685	25RB#0	Range3:2288~2292MHz	-53.8	PASS
Band30	5MHz	QPSK	27685	25RB#0	Range4:2292~2296MHz	-54.31	PASS
Band30	5MHz	QPSK	27685	25RB#0	Range5:2296~2300MHz	-54	PASS
Band30	5MHz	QPSK	27685	25RB#0	Range6:2300~2305MHz	-44.3	PASS
Band30	5MHz	QPSK	27685	25RB#0	Range7:2320~2324MHz	-54.93	PASS
Band30	5MHz	QPSK	27685	25RB#0	Range8:2324~2328MHz	-54.84	PASS
Band30	5MHz	QPSK	27685	25RB#0	Range9:2328~2337MHz	-53.16	PASS
Band30	5MHz	QPSK	27685	25RB#0	Range10:2337~2341MHz	-44.72	PASS
Band30	5MHz	QPSK	27685	25RB#0	Range11:2341~2345MHz	-44.17	PASS
Band30	5MHz	QPSK	27685	25RB#0	Range12:2360~2365MHz	-34.22	PASS
Band30	5MHz	QPSK	27685	25RB#0	Range13:2365~26500MHz	-47.65	PASS
Band30	5MHz	QPSK	27710	25RB#0	Range1:30~1000MHz	-56.2	PASS
Band30	5MHz	QPSK	27710	25RB#0	Range2:1000~2288MHz	-56.5	PASS
Band30	5MHz	QPSK	27710	25RB#0	Range3:2288~2292MHz	-54.89	PASS
Band30	5MHz	QPSK	27710	25RB#0	Range4:2292~	-53.76	PASS



					2296MHz		
Band30	5MHz	QPSK	27710	25RB#0	Range5:2296~2300MHz	-55.52	PASS
Band30	5MHz	QPSK	27710	25RB#0	Range6:2300~2305MHz	-44.5	PASS
Band30	5MHz	QPSK	27710	25RB#0	Range7:2320~2324MHz	-55.59	PASS
Band30	5MHz	QPSK	27710	25RB#0	Range8:2324~2328MHz	-55.19	PASS
Band30	5MHz	QPSK	27710	25RB#0	Range9:2328~2337MHz	-53.82	PASS
Band30	5MHz	QPSK	27710	25RB#0	Range10:2337~2341MHz	-44.64	PASS
Band30	5MHz	QPSK	27710	25RB#0	Range11:2341~2345MHz	-43.55	PASS
Band30	5MHz	QPSK	27710	25RB#0	Range12:2360~2365MHz	-35.05	PASS
Band30	5MHz	QPSK	27710	25RB#0	Range13:2365~26500MHz	-47.32	PASS
Band30	5MHz	QPSK	27735	25RB#0	Range1:30~1000MHz	-56.49	PASS
Band30	5MHz	QPSK	27735	25RB#0	Range2:1000~2288MHz	-57.08	PASS
Band30	5MHz	QPSK	27735	25RB#0	Range3:2288~2292MHz	-54.11	PASS
Band30	5MHz	QPSK	27735	25RB#0	Range4:2292~2296MHz	-55.46	PASS
Band30	5MHz	QPSK	27735	25RB#0	Range5:2296~2300MHz	-54.9	PASS
Band30	5MHz	QPSK	27735	25RB#0	Range6:2300~2305MHz	-44.82	PASS
Band30	5MHz	QPSK	27735	25RB#0	Range7:2320~2324MHz	-54.45	PASS
Band30	5MHz	QPSK	27735	25RB#0	Range8:2324~2328MHz	-54.57	PASS
Band30	5MHz	QPSK	27735	25RB#0	Range9:2328~2337MHz	-54.3	PASS

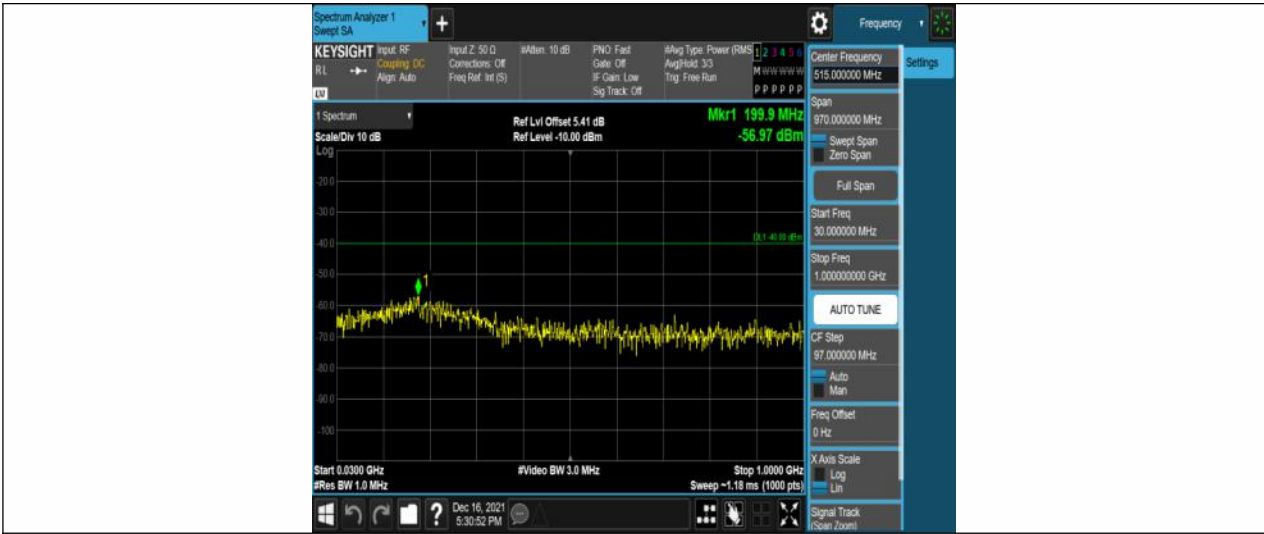
Band30	5MHz	QPSK	27735	25RB#0	Range10:2337 ~2341MHz	-43.48	PASS
Band30	5MHz	QPSK	27735	25RB#0	Range11:2341 ~2345MHz	-45.41	PASS
Band30	5MHz	QPSK	27735	25RB#0	Range12:2360 ~2365MHz	-34.87	PASS
Band30	5MHz	QPSK	27735	25RB#0	Range13:2365 ~26500MHz	-47.19	PASS
Band30	5MHz	16QAM	27685	25RB#0	Range1:30~10 00MHz	-57.27	PASS
Band30	5MHz	16QAM	27685	25RB#0	Range2:1000~ 2288MHz	-58.26	PASS
Band30	5MHz	16QAM	27685	25RB#0	Range3:2288~ 2292MHz	-54.32	PASS
Band30	5MHz	16QAM	27685	25RB#0	Range4:2292~ 2296MHz	-54.57	PASS
Band30	5MHz	16QAM	27685	25RB#0	Range5:2296~ 2300MHz	-55.97	PASS
Band30	5MHz	16QAM	27685	25RB#0	Range6:2300~ 2305MHz	-44.23	PASS
Band30	5MHz	16QAM	27685	25RB#0	Range7:2320~ 2324MHz	-54.55	PASS
Band30	5MHz	16QAM	27685	25RB#0	Range8:2324~ 2328MHz	-54.92	PASS
Band30	5MHz	16QAM	27685	25RB#0	Range9:2328~ 2337MHz	-54.26	PASS
Band30	5MHz	16QAM	27685	25RB#0	Range10:2337 ~2341MHz	-43.86	PASS
Band30	5MHz	16QAM	27685	25RB#0	Range11:2341 ~2345MHz	-44.06	PASS
Band30	5MHz	16QAM	27685	25RB#0	Range12:2360 ~2365MHz	-33.02	PASS
Band30	5MHz	16QAM	27685	25RB#0	Range13:2365 ~26500MHz	-48.04	PASS
Band30	5MHz	16QAM	27710	25RB#0	Range1:30~10 00MHz	-56.99	PASS
Band30	5MHz	16QAM	27710	25RB#0	Range2:1000~	-58.22	PASS

					2288MHz		
Band30	5MHz	16QAM	27710	25RB#0	Range3:2288~2292MHz	-54.85	PASS
Band30	5MHz	16QAM	27710	25RB#0	Range4:2292~2296MHz	-54.66	PASS
Band30	5MHz	16QAM	27710	25RB#0	Range5:2296~2300MHz	-54.37	PASS
Band30	5MHz	16QAM	27710	25RB#0	Range6:2300~2305MHz	-44.36	PASS
Band30	5MHz	16QAM	27710	25RB#0	Range7:2320~2324MHz	-54.5	PASS
Band30	5MHz	16QAM	27710	25RB#0	Range8:2324~2328MHz	-54.2	PASS
Band30	5MHz	16QAM	27710	25RB#0	Range9:2328~2337MHz	-54.42	PASS
Band30	5MHz	16QAM	27710	25RB#0	Range10:2337~2341MHz	-43.73	PASS
Band30	5MHz	16QAM	27710	25RB#0	Range11:2341~2345MHz	-44.52	PASS
Band30	5MHz	16QAM	27710	25RB#0	Range12:2360~2365MHz	-34.06	PASS
Band30	5MHz	16QAM	27710	25RB#0	Range13:2365~26500MHz	-48.13	PASS
Band30	5MHz	16QAM	27735	25RB#0	Range1:30~1000MHz	-56.63	PASS
Band30	5MHz	16QAM	27735	25RB#0	Range2:1000~2288MHz	-58.13	PASS
Band30	5MHz	16QAM	27735	25RB#0	Range3:2288~2292MHz	-55.27	PASS
Band30	5MHz	16QAM	27735	25RB#0	Range4:2292~2296MHz	-54.49	PASS
Band30	5MHz	16QAM	27735	25RB#0	Range5:2296~2300MHz	-55.45	PASS
Band30	5MHz	16QAM	27735	25RB#0	Range6:2300~2305MHz	-44.56	PASS
Band30	5MHz	16QAM	27735	25RB#0	Range7:2320~2324MHz	-55.8	PASS

Band30	5MHz	16QAM	27735	25RB#0	Range8:2324~2328MHz	-54.82	PASS
Band30	5MHz	16QAM	27735	25RB#0	Range9:2328~2337MHz	-54.37	PASS
Band30	5MHz	16QAM	27735	25RB#0	Range10:2337~2341MHz	-44.54	PASS
Band30	5MHz	16QAM	27735	25RB#0	Range11:2341~2345MHz	-44.53	PASS
Band30	5MHz	16QAM	27735	25RB#0	Range12:2360~2365MHz	-34.15	PASS
Band30	5MHz	16QAM	27735	25RB#0	Range13:2365~26500MHz	-47.88	PASS
Band30	10MHz	QPSK	27710	50RB#0	Range1:30~1000MHz	-57.38	PASS
Band30	10MHz	QPSK	27710	50RB#0	Range2:1000~2288MHz	-57.3	PASS
Band30	10MHz	QPSK	27710	50RB#0	Range3:2288~2292MHz	-55.27	PASS
Band30	10MHz	QPSK	27710	50RB#0	Range4:2292~2296MHz	-55.29	PASS
Band30	10MHz	QPSK	27710	50RB#0	Range5:2296~2300MHz	-54.89	PASS
Band30	10MHz	QPSK	27710	50RB#0	Range6:2300~2305MHz	-44.54	PASS
Band30	10MHz	QPSK	27710	50RB#0	Range7:2320~2324MHz	-54.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	Range8:2324~2328MHz	-54.51	PASS
Band30	10MHz	QPSK	27710	50RB#0	Range9:2328~2337MHz	-54.11	PASS
Band30	10MHz	QPSK	27710	50RB#0	Range10:2337~2341MHz	-44.69	PASS
Band30	10MHz	QPSK	27710	50RB#0	Range11:2341~2345MHz	-44.14	PASS
Band30	10MHz	QPSK	27710	50RB#0	Range12:2360~2365MHz	-34.97	PASS
Band30	10MHz	QPSK	27710	50RB#0	Range13:2365	-47.93	PASS

					~26500MHz		
Band30	10MHz	16QAM	27710	50RB#0	Range1:30~1000MHz	-56.01	PASS
Band30	10MHz	16QAM	27710	50RB#0	Range2:1000~2288MHz	-58.9	PASS
Band30	10MHz	16QAM	27710	50RB#0	Range3:2288~2292MHz	-55.26	PASS
Band30	10MHz	16QAM	27710	50RB#0	Range4:2292~2296MHz	-54.69	PASS
Band30	10MHz	16QAM	27710	50RB#0	Range5:2296~2300MHz	-54.27	PASS
Band30	10MHz	16QAM	27710	50RB#0	Range6:2300~2305MHz	-45.03	PASS
Band30	10MHz	16QAM	27710	50RB#0	Range7:2320~2324MHz	-54.42	PASS
Band30	10MHz	16QAM	27710	50RB#0	Range8:2324~2328MHz	-54.53	PASS
Band30	10MHz	16QAM	27710	50RB#0	Range9:2328~2337MHz	-54.75	PASS
Band30	10MHz	16QAM	27710	50RB#0	Range10:2337~2341MHz	-44	PASS
Band30	10MHz	16QAM	27710	50RB#0	Range11:2341~2345MHz	-43.81	PASS
Band30	10MHz	16QAM	27710	50RB#0	Range12:2360~2365MHz	-34.36	PASS
Band30	10MHz	16QAM	27710	50RB#0	Range13:2365~26500MHz	-48.39	PASS

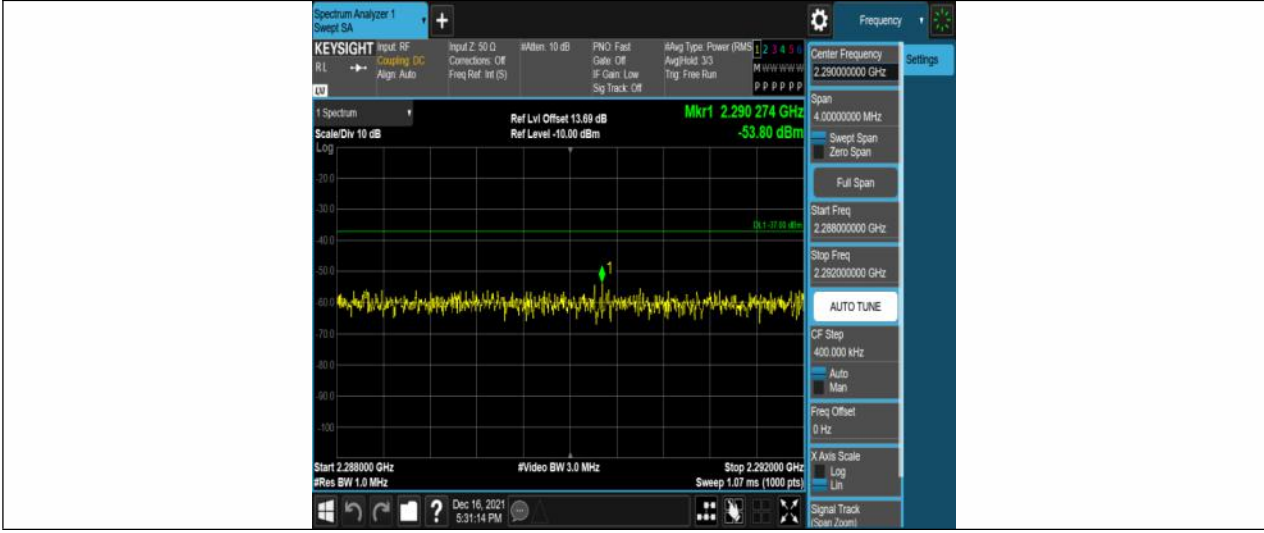
## Test Graphs



Band30-5MHz-QPSK-27685-25RB#0-Range1:30~1000MHz



Band30-5MHz-QPSK-27685-25RB#0-Range2:1000~2288MHz





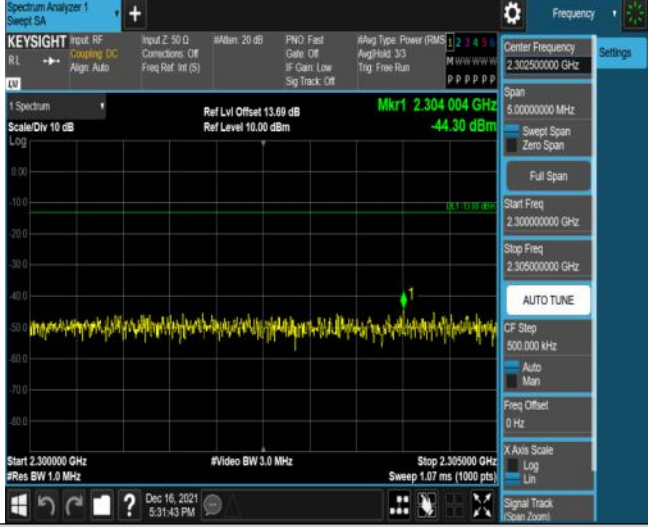
### Band30-5MHz-QPSK-27685-25RB#0-Range3:2288~2292MHz



### Band30-5MHz-QPSK-27685-25RB#0-Range4:2292~2296MHz



### Band30-5MHz-QPSK-27685-25RB#0-Range5:2296~2300MHz



### Band30-5MHz-QPSK-27685-25RB#0-Range6:2300~2305MHz





Band30-5MHz-QPSK-27685-25RB#0-Range7:2320~2324MHz



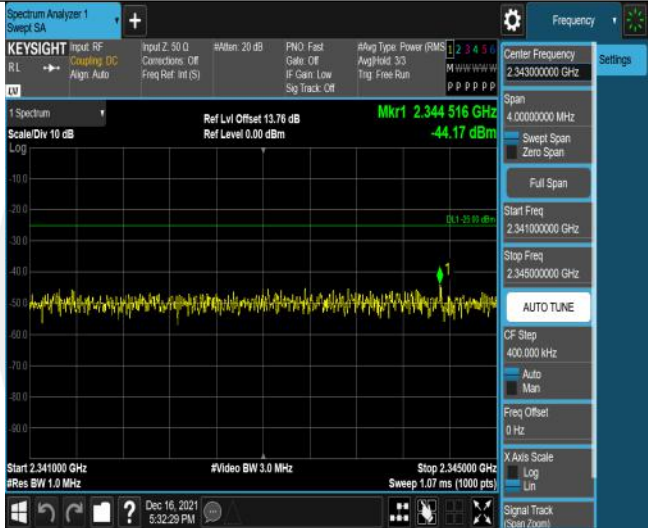
Band30-5MHz-QPSK-27685-25RB#0-Range8:2324~2328MHz



Band30-5MHz-QPSK-27685-25RB#0-Range9:2328~2337MHz



Band30-5MHz-QPSK-27685-25RB#0-Range10:2337~2341MHz



Band30-5MHz-QPSK-27685-25RB#0-Range11:2341~2345MHz



Band30-5MHz-QPSK-27685-25RB#0-Range12:2360~2365MHz



Band30-5MHz-QPSK-27685-25RB#0-Range13:2365~26500MHz



Band30-5MHz-QPSK-27710-25RB#0-Range1:30~1000MHz



Band30-5MHz-QPSK-27710-25RB#0-Range2:1000~2288MHz



Band30-5MHz-QPSK-27710-25RB#0-Range3:2288~2292MHz



Band30-5MHz-QPSK-27710-25RB#0-Range4:2292~2296MHz



Band30-5MHz-QPSK-27710-25RB#0-Range5:2296~2300MHz

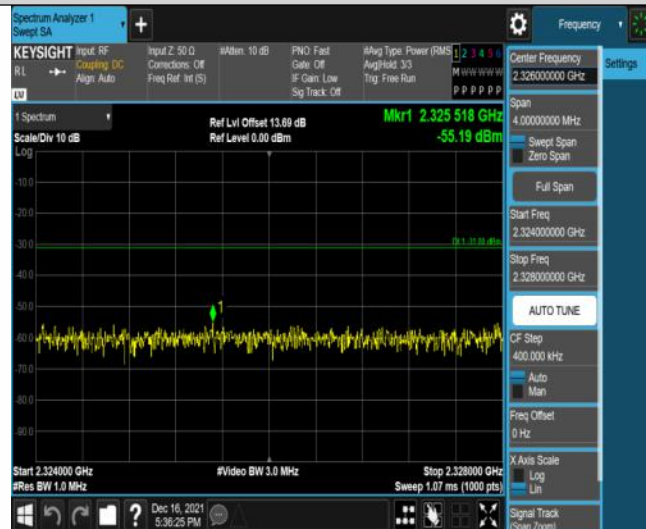




Band30-5MHz-QPSK-27710-25RB#0-Range6:2300~2305MHz



Band30-5MHz-QPSK-27710-25RB#0-Range7:2320~2324MHz



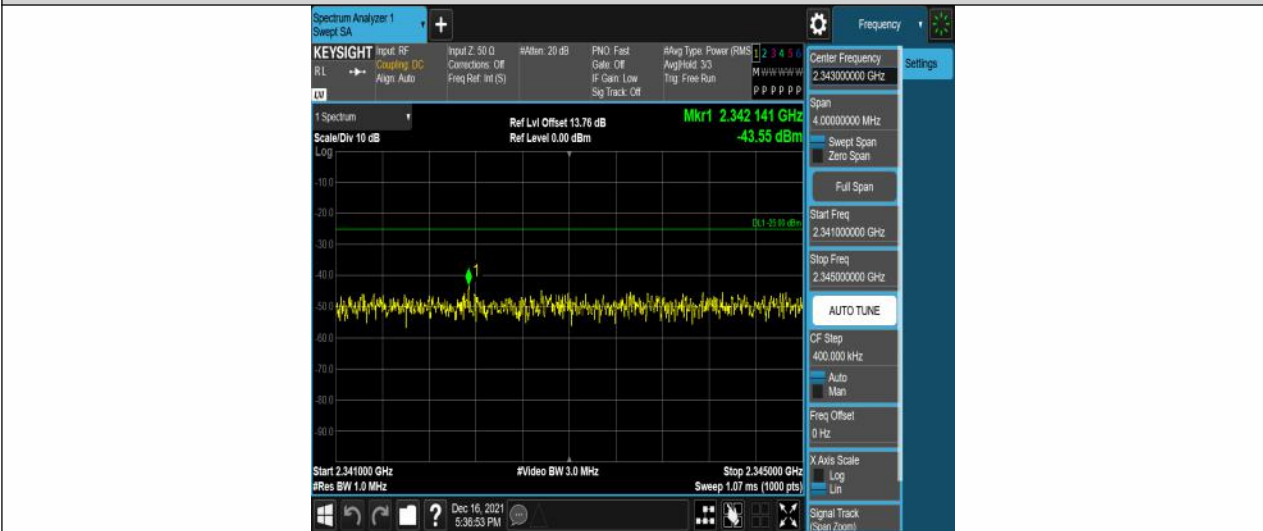
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Band30-5MHz-QPSK-27710-25RB#0-Range9:2328~2337MHz



Band30-5MHz-QPSK-27710-25RB#0-Range10:2337~2341MHz



Band30-5MHz-QPSK-27710-25RB#0-Range11:2341~2345MHz



Band30-5MHz-QPSK-27710-25RB#0-Range12:2360~2365MHz



Band30-5MHz-QPSK-27710-25RB#0-Range13:2365~26500MHz



Band30-5MHz-QPSK-27735-25RB#0-Range1:30~1000MHz





Band30-5MHz-QPSK-27735-25RB#0-Range2:1000~2288MHz



Band30-5MHz-QPSK-27735-25RB#0-Range3:2288~2292MHz



Band30-5MHz-QPSK-27735-25RB#0-Range4:2292~2296MHz



Band30-5MHz-QPSK-27735-25RB#0-Range5:2296~2300MHz



Band30-5MHz-QPSK-27735-25RB#0-Range6:2300~2305MHz



Band30-5MHz-QPSK-27735-25RB#0-Range7:2320~2324MHz



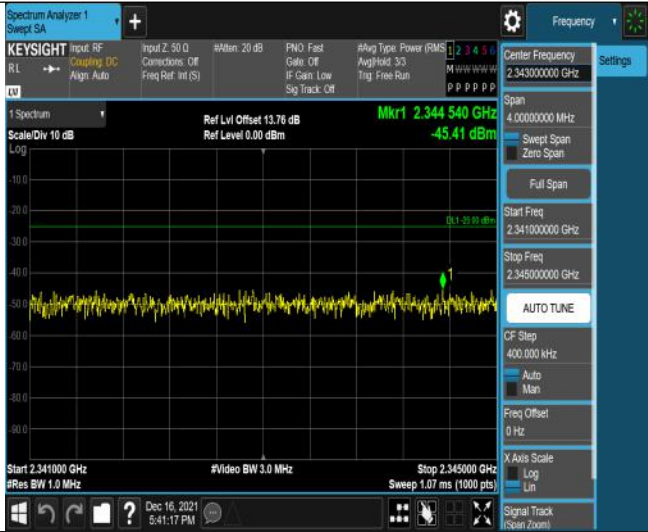
Band30-5MHz-QPSK-27735-25RB#0-Range8:2324~2328MHz



Band30-5MHz-QPSK-27735-25RB#0-Range9:2328~2337MHz



Band30-5MHz-QPSK-27735-25RB#0-Range10:2337~2341MHz



Band30-5MHz-QPSK-27735-25RB#0-Range11:2341~2345MHz



Band30-5MHz-QPSK-27735-25RB#0-Range12:2360~2365MHz



Band30-5MHz-QPSK-27735-25RB#0-Range13:2365~26500MHz





Band30-5MHz-16QAM-27685-25RB#0-Range1:30~1000MHz



Band30-5MHz-16QAM-27685-25RB#0-Range2:1000~2288MHz



Band30-5MHz-16QAM-27685-25RB#0-Range3:2288~2292MHz



Band30-5MHz-16QAM-27685-25RB#0-Range4:2292~2296MHz



Band30-5MHz-16QAM-27685-25RB#0-Range5:2296~2300MHz



Band30-5MHz-16QAM-27685-25RB#0-Range6:2300~2305MHz



Band30-5MHz-16QAM-27685-25RB#0-Range7:2320~2324MHz



Band30-5MHz-16QAM-27685-25RB#0-Range8:2324~2328MHz



Band30-5MHz-16QAM-27685-25RB#0-Range9:2328~2337MHz





Band30-5MHz-16QAM-27685-25RB#0-Range10:2337~2341MHz



Band30-5MHz-16QAM-27685-25RB#0-Range11:2341~2345MHz



Band30-5MHz-16QAM-27685-25RB#0-Range12:2360~2365MHz



Band30-5MHz-16QAM-27685-25RB#0-Range13:2365~26500MHz



Band30-5MHz-16QAM-27710-25RB#0-Range1:30~1000MHz



Band30-5MHz-16QAM-27710-25RB#0-Range2:1000~2288MHz



Band30-5MHz-16QAM-27710-25RB#0-Range3:2288~2292MHz



Band30-5MHz-16QAM-27710-25RB#0-Range4:2292~2296MHz



Band30-5MHz-16QAM-27710-25RB#0-Range5:2296~2300MHz



Band30-5MHz-16QAM-27710-25RB#0-Range6:2300~2305MHz



Band30-5MHz-16QAM-27710-25RB#0-Range7:2320~2324MHz



Band30-5MHz-16QAM-27710-25RB#0-Range8:2324~2328MHz





Band30-5MHz-16QAM-27710-25RB#0-Range9:2328~2337MHz



Band30-5MHz-16QAM-27710-25RB#0-Range10:2337~2341MHz



Band30-5MHz-16QAM-27710-25RB#0-Range11:2341~2345MHz

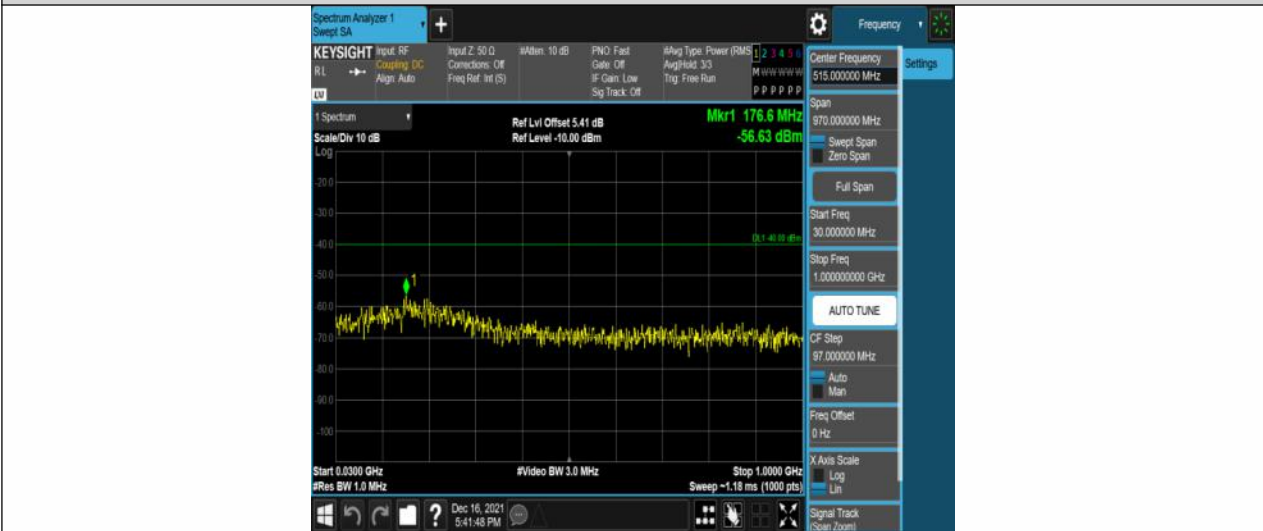




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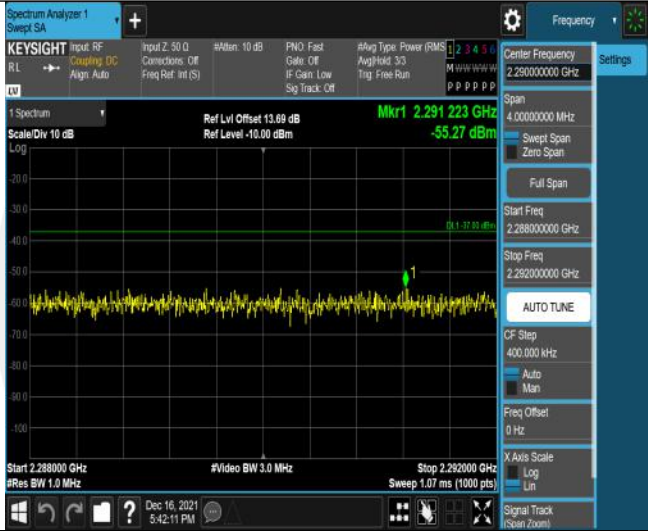
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Band30-5MHz-16QAM-27735-25RB#0-Range1:30~1000MHz



Band30-5MHz-16QAM-27735-25RB#0-Range2:1000~2288MHz



Band30-5MHz-16QAM-27735-25RB#0-Range3:2288~2292MHz



Band30-5MHz-16QAM-27735-25RB#0-Range4:2292~2296MHz



Band30-5MHz-16QAM-27735-25RB#0-Range5:2296~2300MHz



Band30-5MHz-16QAM-27735-25RB#0-Range6:2300~2305MHz



Band30-5MHz-16QAM-27735-25RB#0-Range7:2320~2324MHz



Band30-5MHz-16QAM-27735-25RB#0-Range8:2324~2328MHz



Band30-5MHz-16QAM-27735-25RB#0-Range9:2328~2337MHz



Band30-5MHz-16QAM-27735-25RB#0-Range10:2337~2341MHz





Band30-5MHz-16QAM-27735-25RB#0-Range11:2341~2345MHz

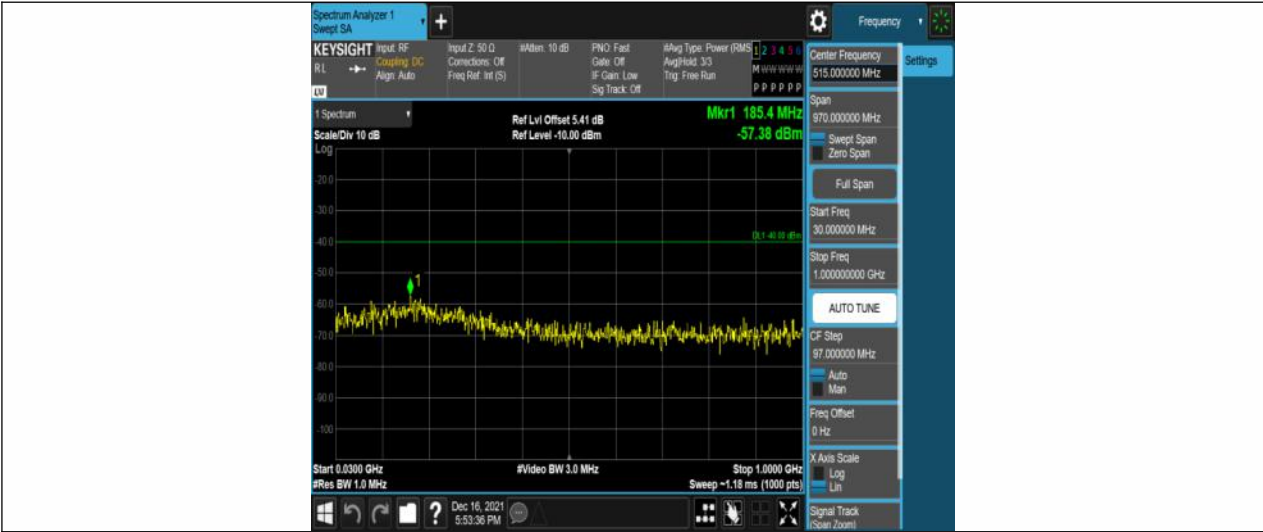


Band30-5MHz-16QAM-27735-25RB#0-Range12:2360~2365MHz



Band30-5MHz-16QAM-27735-25RB#0-Range13:2365~26500MHz





Band30-10MHz-QPSK-27710-50RB#0-Range1:30~1000MHz



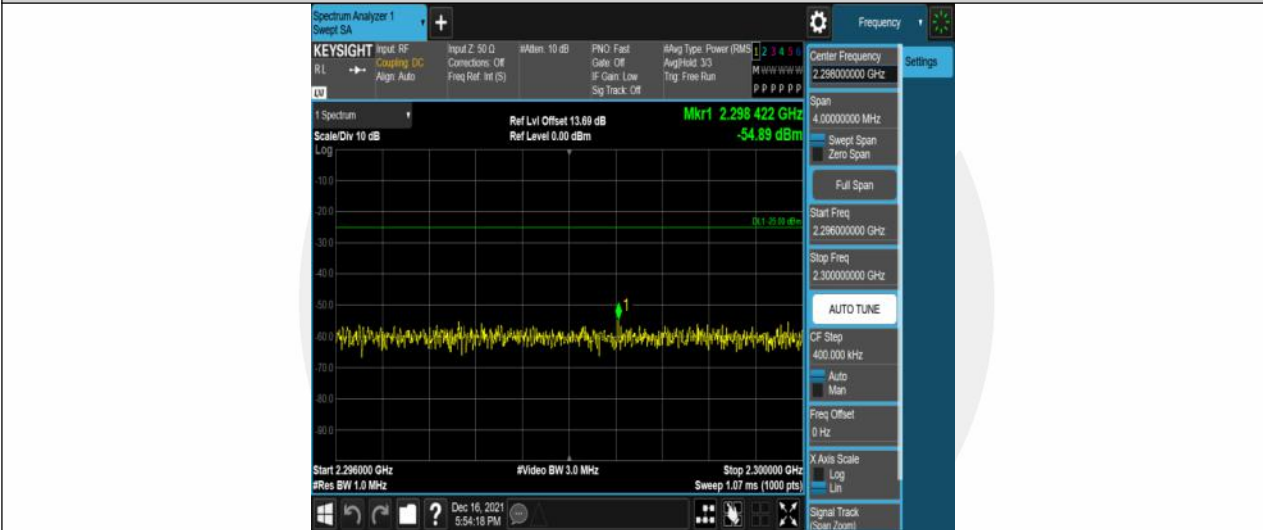
Band30-10MHz-QPSK-27710-50RB#0-Range2:1000~2288MHz



Band30-10MHz-QPSK-27710-50RB#0-Range3:2288~2292MHz



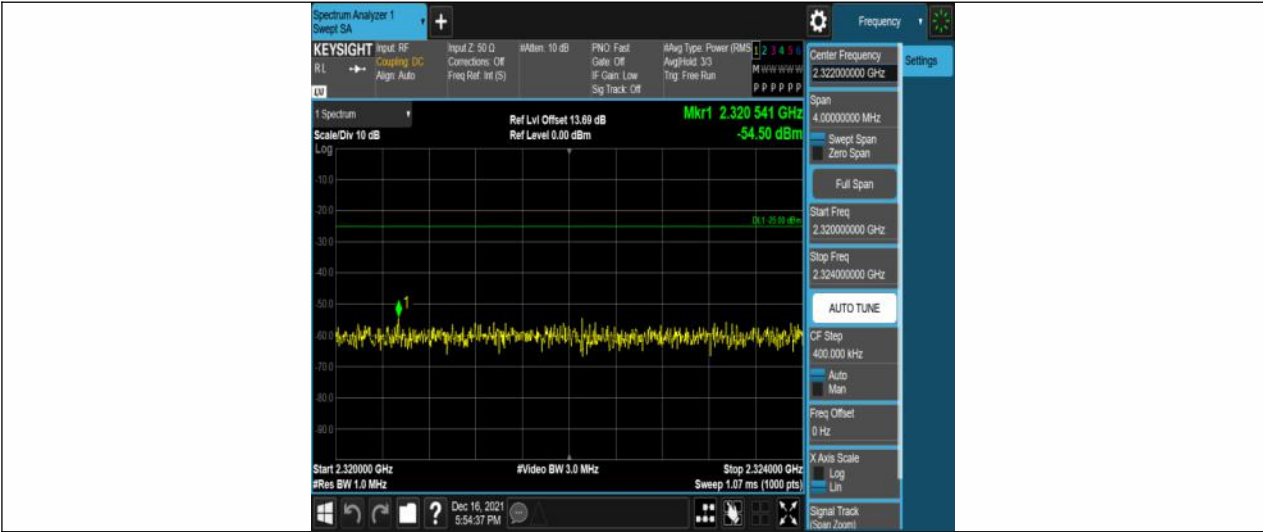
Band30-10MHz-QPSK-27710-50RB#0-Range4:2292~2296MHz



Band30-10MHz-QPSK-27710-50RB#0-Range5:2296~2300MHz



Band30-10MHz-QPSK-27710-50RB#0-Range6:2300~2305MHz



Band30-10MHz-QPSK-27710-50RB#0-Range7:2320~2324MHz



Band30-10MHz-QPSK-27710-50RB#0-Range8:2324~2328MHz



Band30-10MHz-QPSK-27710-50RB#0-Range9:2328~2337MHz



Band30-10MHz-QPSK-27710-50RB#0-Range10:2337~2341MHz



Band30-10MHz-QPSK-27710-50RB#0-Range11:2341~2345MHz



Band30-10MHz-QPSK-27710-50RB#0-Range12:2360~2365MHz





Band30-10MHz-QPSK-27710-50RB#0-Range13:2365~26500MHz

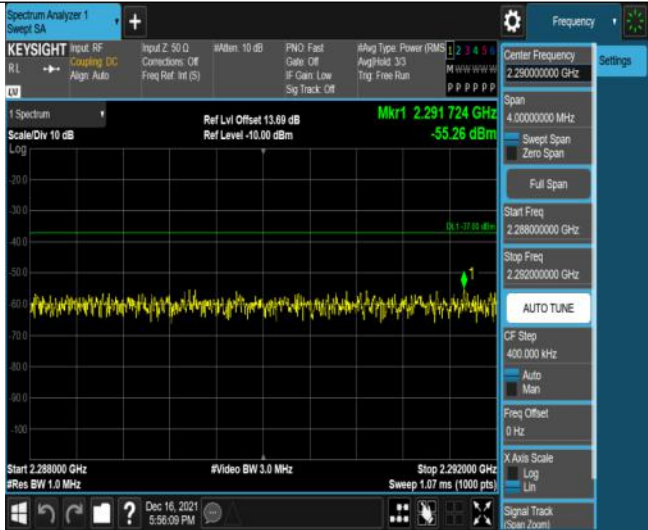


Band30-10MHz-16QAM-27710-50RB#0-Range1:30~1000MHz



Band30-10MHz-16QAM-27710-50RB#0-Range2:1000~2288MHz





Band30-10MHz-16QAM-27710-50RB#0-Range3:2288~2292MHz



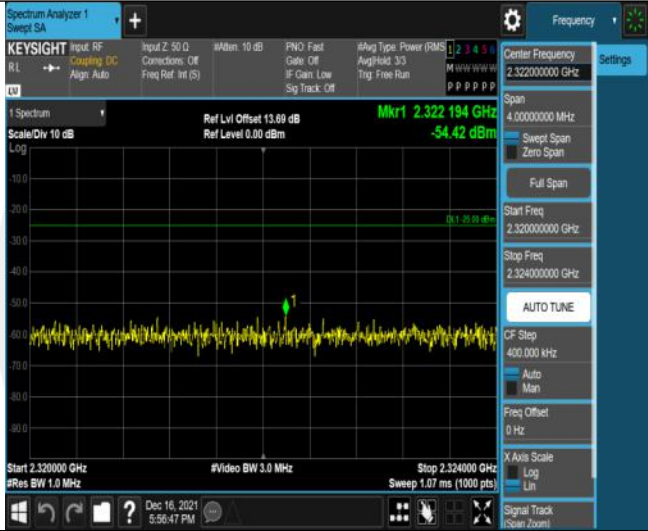
Band30-10MHz-16QAM-27710-50RB#0-Range4:2292~2296MHz



Band30-10MHz-16QAM-27710-50RB#0-Range5:2296~2300MHz



Band30-10MHz-16QAM-27710-50RB#0-Range6:2300~2305MHz



Band30-10MHz-16QAM-27710-50RB#0-Range7:2320~2324MHz



Band30-10MHz-16QAM-27710-50RB#0-Range8:2324~2328MHz



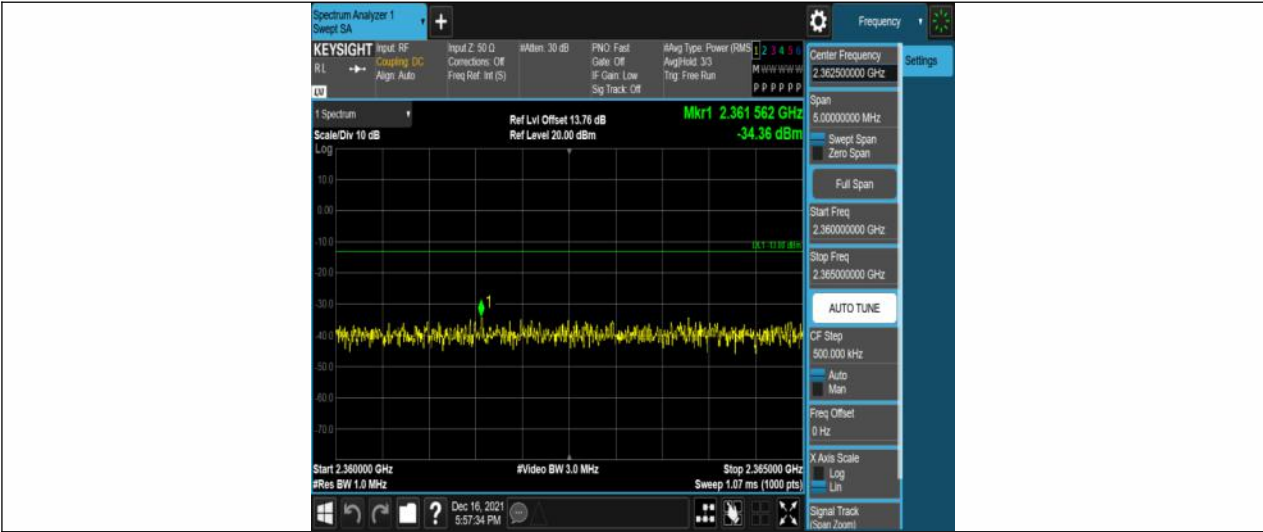
Band30-10MHz-16QAM-27710-50RB#0-Range9:2328~2337MHz



Band30-10MHz-16QAM-27710-50RB#0-Range10:2337~2341MHz



Band30-10MHz-16QAM-27710-50RB#0-Range11:2341~2345MHz



Band30-10MHz-16QAM-27710-50RB#0-Range12:2360~2365MHz



Band30-10MHz-16QAM-27710-50RB#0-Range13:2365~26500MHz

## Appendix F: Frequency Stability

### Test Result

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	VL	NT	6.59	0.002856	±2.5	PASS
Band30	5MHz	QPSK	27685	25RB#0	VN	NT	4.23	0.001833	±2.5	PASS
Band30	5MHz	QPSK	27685	25RB#0	VH	NT	7.87	0.003411	±2.5	PASS
Band30	5MHz	QPSK	27710	25RB#0	VL	NT	-6.22	-0.002693	±2.5	PASS
Band30	5MHz	QPSK	27710	25RB#0	VN	NT	-5.76	-0.002494	±2.5	PASS
Band30	5MHz	QPSK	27710	25RB#0	VH	NT	-5.78	-0.002502	±2.5	PASS
Band30	5MHz	QPSK	27735	25RB#0	VL	NT	-5.55	-0.002400	±2.5	PASS
Band30	5MHz	QPSK	27735	25RB#0	VN	NT	3.58	0.001548	±2.5	PASS
Band30	5MHz	QPSK	27735	25RB#0	VH	NT	-5.29	-0.002288	±2.5	PASS
Band30	5MHz	16QAM	27685	25RB#0	VL	NT	5.99	0.002596	±2.5	PASS
Band30	5MHz	16QAM	27685	25RB#0	VN	NT	3.60	0.001560	±2.5	PASS
Band30	5MHz	16QAM	27685	25RB#0	VH	NT	7.82	0.003389	±2.5	PASS
Band30	5MHz	16QAM	27710	25RB#0	VL	NT	-6.21	-0.002688	±2.5	PASS
Band30	5MHz	16QAM	27710	25RB#0	VN	NT	-6.37	-0.002758	±2.5	PASS
Band30	5MHz	16QAM	27710	25RB#0	VH	NT	-9.60	-0.004156	±2.5	PASS
Band30	5MHz	16QAM	27735	25RB#0	VL	NT	6.35	0.002746	±2.5	PASS



Band30	5MHz	16QAM	27735	25RB#0	VN	NT	6.27	0.00271 1	±2.5	PASS
Band30	5MHz	16QAM	27735	25RB#0	VH	NT	4.36	0.00188 5	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	VL	NT	11.40	0.00493 5	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	VN	NT	12.20	0.00528 1	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	VH	NT	13.55	0.00586 6	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	VL	NT	-9.24	-0.0040 00	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	VN	NT	-7.91	-0.0034 24	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	VH	NT	-7.04	-0.0030 48	±2.5	PASS

Voltage										
Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band30	5MHz	QPSK	27685	25RB#0	NV	-30	8.17	0.00354 1	±2.5	PASS
Band30	5MHz	QPSK	27685	25RB#0	NV	-20	6.02	0.00260 9	±2.5	PASS
Band30	5MHz	QPSK	27685	25RB#0	NV	-10	6.91	0.00299 5	±2.5	PASS
Band30	5MHz	QPSK	27685	25RB#0	NV	0	9.07	0.00393 1	±2.5	PASS
Band30	5MHz	QPSK	27685	25RB#0	NV	10	6.47	0.00280 4	±2.5	PASS
Band30	5MHz	QPSK	27685	25RB#0	NV	20	11.07	0.00479 7	±2.5	PASS
Band30	5MHz	QPSK	27685	25RB#0	NV	30	5.58	0.00241 8	±2.5	PASS
Band30	5MHz	QPSK	27685	25RB#0	NV	40	-5.58	-0.0024 18	±2.5	PASS
Band30	5MHz	QPSK	27685	25RB#0	NV	50	7.02	0.00304 2	±2.5	PASS

Band30	5MHz	QPSK	27710	25RB#0	NV	-30	-5.61	-0.0024 29	±2.5	PASS
Band30	5MHz	QPSK	27710	25RB#0	NV	-20	-3.81	-0.0016 49	±2.5	PASS
Band30	5MHz	QPSK	27710	25RB#0	NV	-10	-6.14	-0.0026 58	±2.5	PASS
Band30	5MHz	QPSK	27710	25RB#0	NV	0	-7.22	-0.0031 26	±2.5	PASS
Band30	5MHz	QPSK	27710	25RB#0	NV	10	-6.87	-0.0029 74	±2.5	PASS
Band30	5MHz	QPSK	27710	25RB#0	NV	20	-4.63	-0.0020 04	±2.5	PASS
Band30	5MHz	QPSK	27710	25RB#0	NV	30	3.85	0.00166 7	±2.5	PASS
Band30	5MHz	QPSK	27710	25RB#0	NV	40	-4.48	-0.0019 39	±2.5	PASS
Band30	5MHz	QPSK	27710	25RB#0	NV	50	-5.02	-0.0021 73	±2.5	PASS
Band30	5MHz	QPSK	27735	25RB#0	NV	-30	13.99	0.00605 0	±2.5	PASS
Band30	5MHz	QPSK	27735	25RB#0	NV	-20	-5.59	-0.0024 17	±2.5	PASS
Band30	5MHz	QPSK	27735	25RB#0	NV	-10	-2.13	-0.0009 21	±2.5	PASS
Band30	5MHz	QPSK	27735	25RB#0	NV	0	3.49	0.00150 9	±2.5	PASS
Band30	5MHz	QPSK	27735	25RB#0	NV	10	6.07	0.00262 5	±2.5	PASS
Band30	5MHz	QPSK	27735	25RB#0	NV	20	6.48	0.00280 2	±2.5	PASS
Band30	5MHz	QPSK	27735	25RB#0	NV	30	4.85	0.00209 7	±2.5	PASS
Band30	5MHz	QPSK	27735	25RB#0	NV	40	6.35	0.00274 6	±2.5	PASS
Band30	5MHz	QPSK	27735	25RB#0	NV	50	10.34	0.00447 1	±2.5	PASS
Band30	5MHz	16QAM	27685	25RB#0	NV	-30	7.34	0.00318	±2.5	PASS

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Band30	5MHz	16QAM	27685	25RB#0	NV	-20	6.37	0.00276 1	±2.5	PASS
Band30	5MHz	16QAM	27685	25RB#0	NV	-10	-4.15	-0.0017 98	±2.5	PASS
Band30	5MHz	16QAM	27685	25RB#0	NV	0	2.85	0.00123 5	±2.5	PASS
Band30	5MHz	16QAM	27685	25RB#0	NV	10	5.06	0.00219 3	±2.5	PASS
Band30	5MHz	16QAM	27685	25RB#0	NV	20	8.25	0.00357 5	±2.5	PASS
Band30	5MHz	16QAM	27685	25RB#0	NV	30	4.26	0.00184 6	±2.5	PASS
Band30	5MHz	16QAM	27685	25RB#0	NV	40	6.59	0.00285 6	±2.5	PASS
Band30	5MHz	16QAM	27685	25RB#0	NV	50	7.87	0.00341 1	±2.5	PASS
Band30	5MHz	16QAM	27710	25RB#0	NV	-30	-6.14	-0.0026 58	±2.5	PASS
Band30	5MHz	16QAM	27710	25RB#0	NV	-20	-7.97	-0.0034 50	±2.5	PASS
Band30	5MHz	16QAM	27710	25RB#0	NV	-10	-9.06	-0.0039 22	±2.5	PASS
Band30	5MHz	16QAM	27710	25RB#0	NV	0	-7.55	-0.0032 68	±2.5	PASS
Band30	5MHz	16QAM	27710	25RB#0	NV	10	-7.12	-0.0030 82	±2.5	PASS
Band30	5MHz	16QAM	27710	25RB#0	NV	20	-7.45	-0.0032 25	±2.5	PASS
Band30	5MHz	16QAM	27710	25RB#0	NV	30	-11.84	-0.0051 26	±2.5	PASS
Band30	5MHz	16QAM	27710	25RB#0	NV	40	-5.91	-0.0025 58	±2.5	PASS
Band30	5MHz	16QAM	27710	25RB#0	NV	50	-9.16	-0.0039 65	±2.5	PASS
Band30	5MHz	16QAM	27735	25RB#0	NV	-30	-3.18	-0.0013 75	±2.5	PASS

Band30	5MHz	16QAM	27735	25RB#0	NV	-20	6.31	0.002729	±2.5	PASS
Band30	5MHz	16QAM	27735	25RB#0	NV	-10	9.21	0.003983	±2.5	PASS
Band30	5MHz	16QAM	27735	25RB#0	NV	0	5.39	0.002331	±2.5	PASS
Band30	5MHz	16QAM	27735	25RB#0	NV	10	7.37	0.003187	±2.5	PASS
Band30	5MHz	16QAM	27735	25RB#0	NV	20	5.32	0.002301	±2.5	PASS
Band30	5MHz	16QAM	27735	25RB#0	NV	30	-3.71	-0.001604	±2.5	PASS
Band30	5MHz	16QAM	27735	25RB#0	NV	40	6.62	0.002863	±2.5	PASS
Band30	5MHz	16QAM	27735	25RB#0	NV	50	3.68	0.001591	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-30	-7.74	-0.003351	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-20	14.26	0.006173	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	-10	-10.76	-0.004658	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	0	-2.66	-0.001152	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	10	-8.18	-0.003541	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	20	-5.81	-0.002515	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	30	-5.38	-0.002329	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	40	-7.90	-0.003420	±2.5	PASS
Band30	10MHz	QPSK	27710	50RB#0	NV	50	12.04	0.005212	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	-30	-6.21	-0.002688	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	-20	9.81	0.00424	±2.5	PASS

								7		
Band30	10MHz	16QAM	27710	50RB#0	NV	-10	9.01	0.00390 0	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	0	8.98	0.00388 7	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	10	8.38	0.00362 8	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	20	-6.44	-0.0027 88	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	30	-7.38	-0.0031 95	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	40	-4.58	-0.0019 83	±2.5	PASS
Band30	10MHz	16QAM	27710	50RB#0	NV	50	-6.81	-0.0029 48	±2.5	PASS