

# Appendix B.29

## NR Band n30



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## Effective (Isotropic) Radiated Power Output Data for SA

### Test Result Ant1

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
N30	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	23.23	17.53	23.98	PASS
N30	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	23.14	17.44	23.98	PASS
N30	15	5	DFT-PI2BPSK	L	Outer_Full	22.54	16.84	23.98	PASS
N30	15	5	DFT-QPSK	L	Inner_1RB_Left	23.04	17.34	23.98	PASS
N30	15	5	DFT-QPSK	L	Inner_1RB_Right	23.04	17.34	23.98	PASS
N30	15	5	DFT-QPSK	L	Outer_Full	22.14	16.44	23.98	PASS
N30	15	5	DFT-16QAM	L	Inner_1RB_Left	22.07	16.37	23.98	PASS
N30	15	5	DFT-16QAM	L	Inner_1RB_Right	22.03	16.33	23.98	PASS
N30	15	5	DFT-16QAM	L	Outer_Full	21.15	15.45	23.98	PASS
N30	15	5	DFT-64QAM	L	Inner_1RB_Left	20.81	15.11	23.98	PASS
N30	15	5	DFT-64QAM	L	Inner_1RB_Right	20.69	14.99	23.98	PASS
N30	15	5	DFT-64QAM	L	Outer_Full	20.65	14.95	23.98	PASS
N30	15	5	DFT-256QAM	L	Inner_1RB_Left	17.97	12.27	23.98	PASS
N30	15	5	DFT-256QAM	L	Inner_1RB_Right	17.88	12.18	23.98	PASS
N30	15	5	DFT-256QAM	L	Outer_Full	18.43	12.73	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	23.15	17.45	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	23.04	17.34	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Outer_Full	22.60	16.9	23.98	PASS
N30	15	5	DFT-QPSK	M	Inner_1RB_Left	23.02	17.32	23.98	PASS
N30	15	5	DFT-QPSK	M	Inner_1RB_Right	23.02	17.32	23.98	PASS
N30	15	5	DFT-QPSK	M	Outer_Full	22.08	16.38	23.98	PASS
N30	15	5	DFT-16QAM	M	Inner_1RB_Left	22.14	16.44	23.98	PASS
N30	15	5	DFT-16QAM	M	Inner_1RB_Right	22.02	16.32	23.98	PASS
N30	15	5	DFT-16QAM	M	Outer_Full	21.15	15.45	23.98	PASS
N30	15	5	DFT-64QAM	M	Inner_1RB_Left	20.80	15.1	23.98	PASS
N30	15	5	DFT-64QAM	M	Inner_1RB_Right	20.78	15.08	23.98	PASS
N30	15	5	DFT-64QAM	M	Outer_Full	20.66	14.96	23.98	PASS
N30	15	5	DFT-256QAM	M	Inner_1RB_Left	18.01	12.31	23.98	PASS
N30	15	5	DFT-256QAM	M	Inner_1RB_Right	17.98	12.28	23.98	PASS
N30	15	5	DFT-256QAM	M	Outer_Full	18.46	12.76	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	23.20	17.5	23.98	PASS



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Table with 10 columns: Test ID, Frequency, Power, Modulation, Polarization, Position, Measured Value 1, Measured Value 2, Measured Value 3, Result. Rows include various modulation types like DFT-PI2BPSK, DFT-QPSK, DFT-16QAM, DFT-64QAM, DFT-256QAM.



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N30	15	10	DFT-16QAM	M	Outer_Full	21.16	15.46	23.98	PASS
N30	15	10	DFT-64QAM	M	Inner_1RB_Left	20.84	15.14	23.98	PASS
N30	15	10	DFT-64QAM	M	Inner_1RB_Right	20.66	14.96	23.98	PASS
N30	15	10	DFT-64QAM	M	Outer_Full	20.65	14.95	23.98	PASS
N30	15	10	DFT-256QAM	M	Inner_1RB_Left	17.97	12.27	23.98	PASS
N30	15	10	DFT-256QAM	M	Inner_1RB_Right	17.78	12.08	23.98	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	18.52	12.82	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	23.24	17.54	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	23.06	17.36	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Outer_Full	22.58	16.88	23.98	PASS
N30	15	10	DFT-QPSK	H	Inner_1RB_Left	23.16	17.46	23.98	PASS
N30	15	10	DFT-QPSK	H	Inner_1RB_Right	23.04	17.34	23.98	PASS
N30	15	10	DFT-QPSK	H	Outer_Full	22.11	16.41	23.98	PASS
N30	15	10	DFT-16QAM	H	Inner_1RB_Left	22.06	16.36	23.98	PASS
N30	15	10	DFT-16QAM	H	Inner_1RB_Right	21.92	16.22	23.98	PASS
N30	15	10	DFT-16QAM	H	Outer_Full	21.12	15.42	23.98	PASS
N30	15	10	DFT-64QAM	H	Inner_1RB_Left	20.74	15.04	23.98	PASS
N30	15	10	DFT-64QAM	H	Inner_1RB_Right	20.69	14.99	23.98	PASS
N30	15	10	DFT-64QAM	H	Outer_Full	20.69	14.99	23.98	PASS
N30	15	10	DFT-256QAM	H	Inner_1RB_Left	17.85	12.15	23.98	PASS
N30	15	10	DFT-256QAM	H	Inner_1RB_Right	17.76	12.06	23.98	PASS
N30	15	10	DFT-256QAM	H	Outer_Full	18.48	12.78	23.98	PASS



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## Power Spectral Density

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (dBm/5MHz)	EIRP (dBm/5MHz)	Limit (dBm/5MHz)	Verdict
N30	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	16.18	10.48	23.98	PASS
N30	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	16.68	10.98	23.98	PASS
N30	15	5	DFT-PI2BPSK	L	Outer_Full	15.17	9.47	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	16.52	10.82	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	16.82	11.12	23.98	PASS
N30	15	5	DFT-PI2BPSK	M	Outer_Full	15.48	9.78	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	16.80	11.1	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	16.59	10.89	23.98	PASS
N30	15	5	DFT-PI2BPSK	H	Outer_Full	15.48	9.78	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	16.24	10.54	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	16.64	10.94	23.98	PASS
N30	15	10	DFT-PI2BPSK	L	Outer_Full	13.69	7.99	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	16.22	10.52	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	16.65	10.95	23.98	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	13.67	7.97	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	16.22	10.52	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	16.66	10.96	23.98	PASS
N30	15	10	DFT-PI2BPSK	H	Outer_Full	13.68	7.98	23.98	PASS



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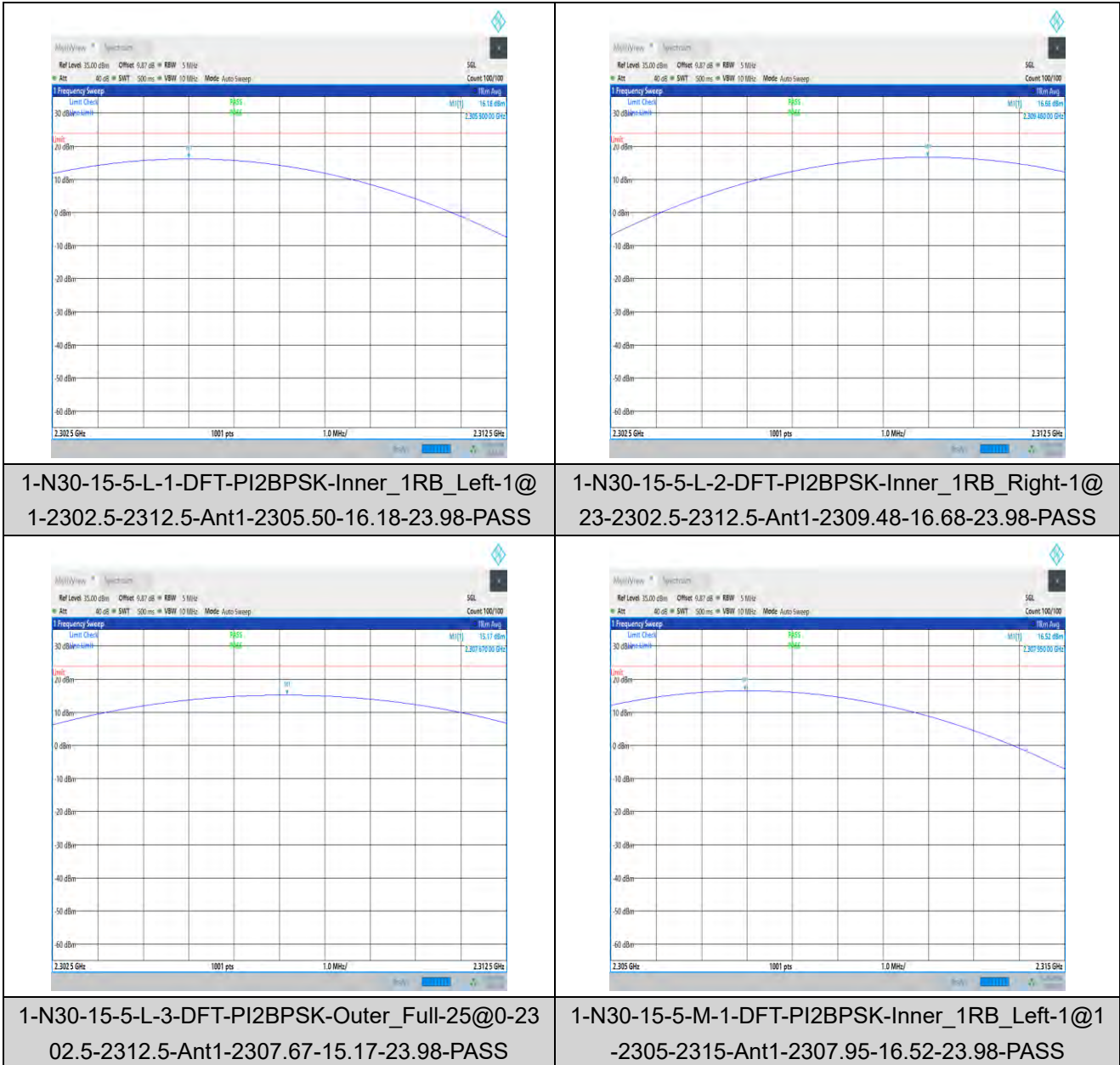
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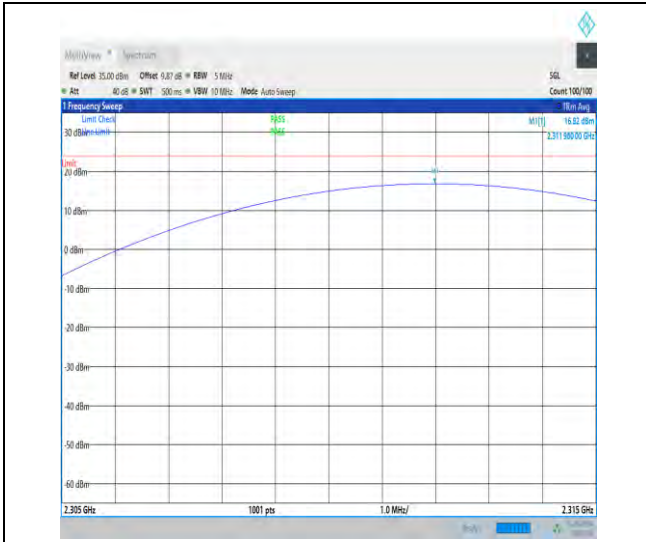
Test Graphs



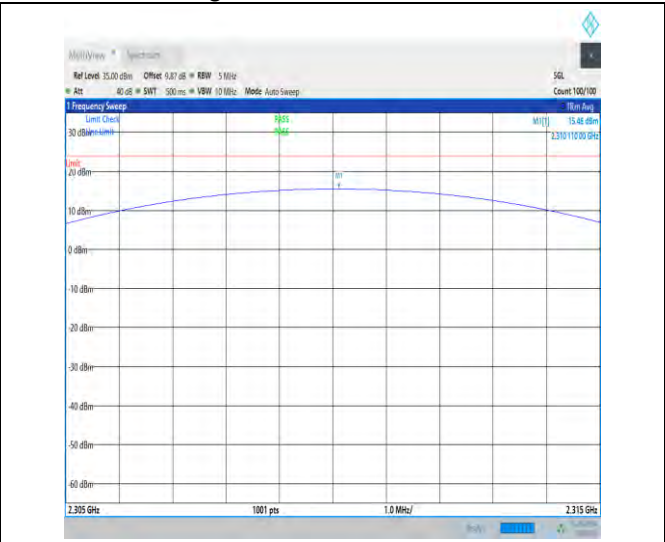
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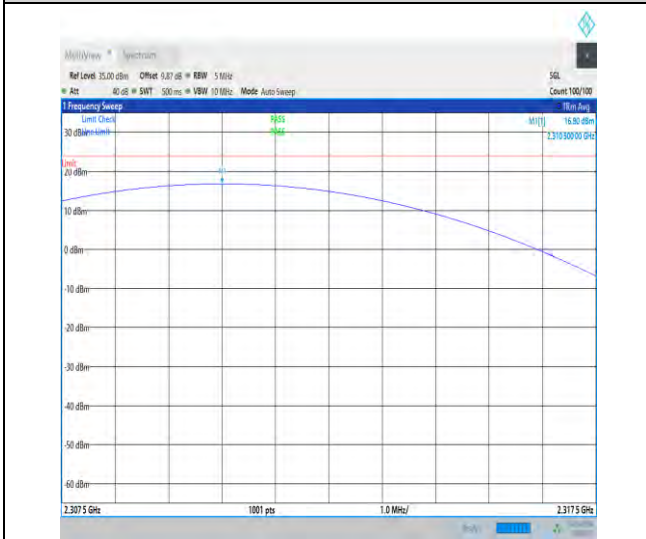
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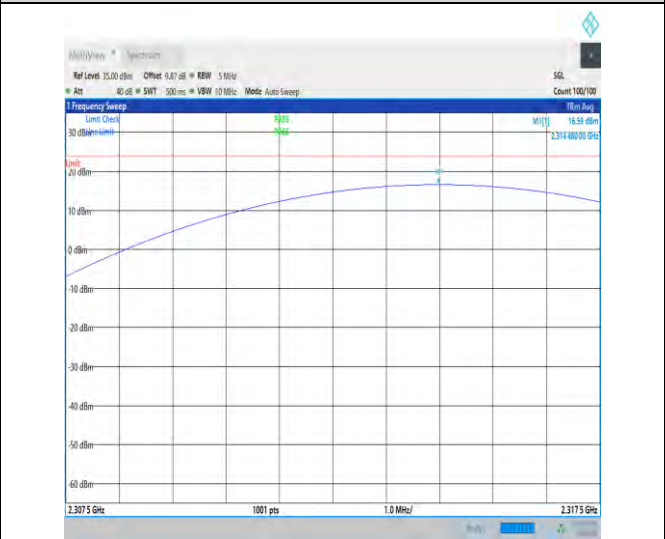
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@23-2305-2315-Ant1-2311.98-16.82-23.98-PASS



1-N30-15-5-M-3-DFT-PI2BPSK-Outer\_Full-25@0-2305-2315-Ant1-2310.11-15.48-23.98-PASS



1-N30-15-5-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-2307.5-2317.5-Ant1-2310.50-16.80-23.98-PASS



1-N30-15-5-H-2-DFT-PI2BPSK-Inner\_1RB\_Right-1@  
23-2307.5-2317.5-Ant1-2314.48-16.59-23.98-PASS



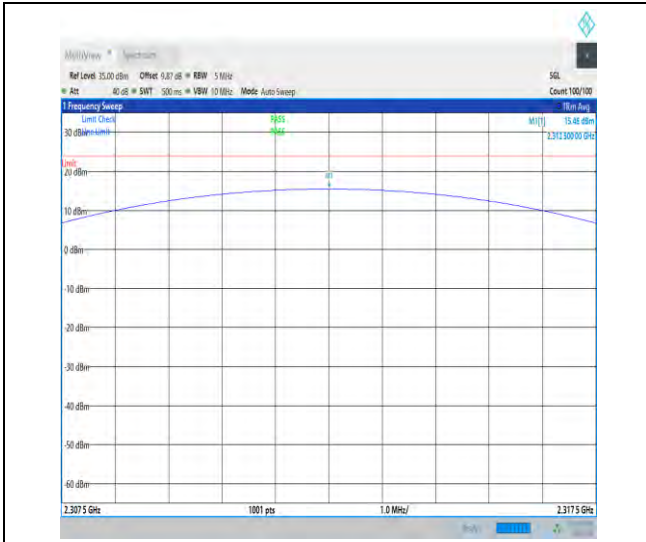
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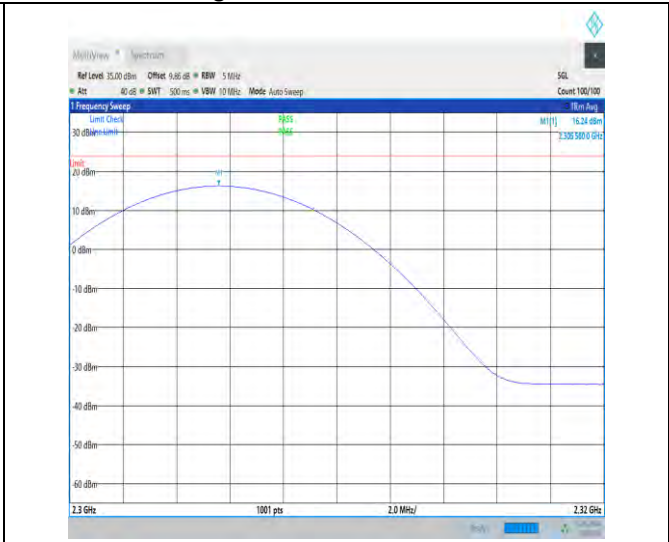
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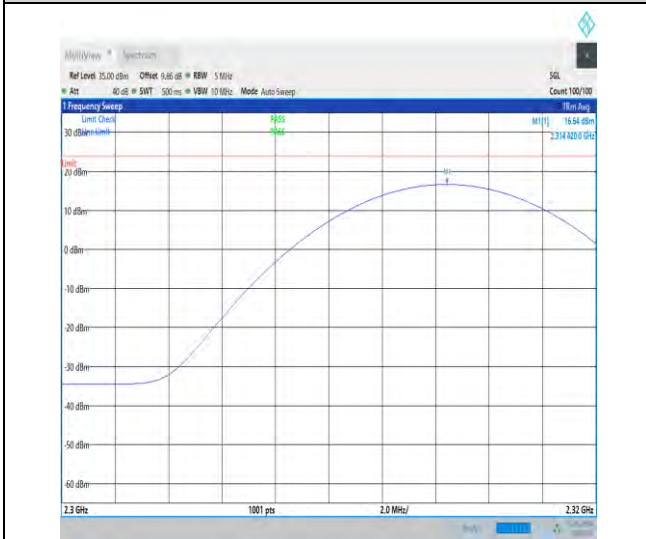
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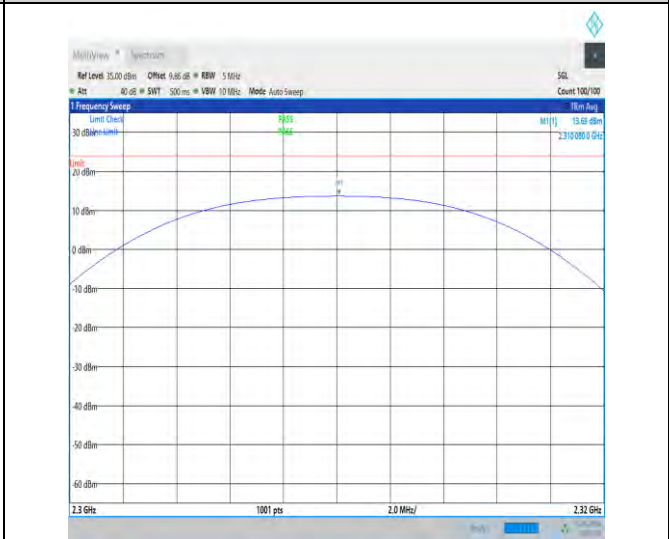
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1-N30-15-10-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-2300-2320-Ant1-2305.58-16.24-23.98-PASS



1-N30-15-10-L-2-DFT-PI2BPSK-Inner\_1RB\_Right-1  
@50-2300-2320-Ant1-2314.42-16.64-23.98-PASS



1-N30-15-10-L-3-DFT-PI2BPSK-Outer\_Full-50@0-23  
00-2320-Ant1-2310.08-13.69-23.98-PASS



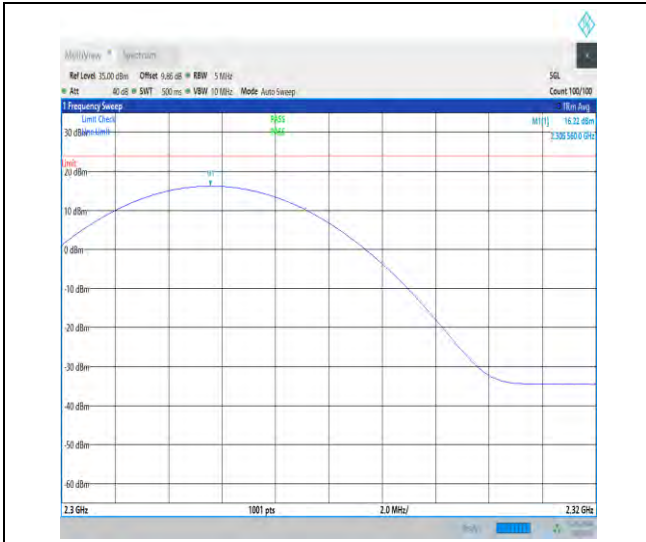
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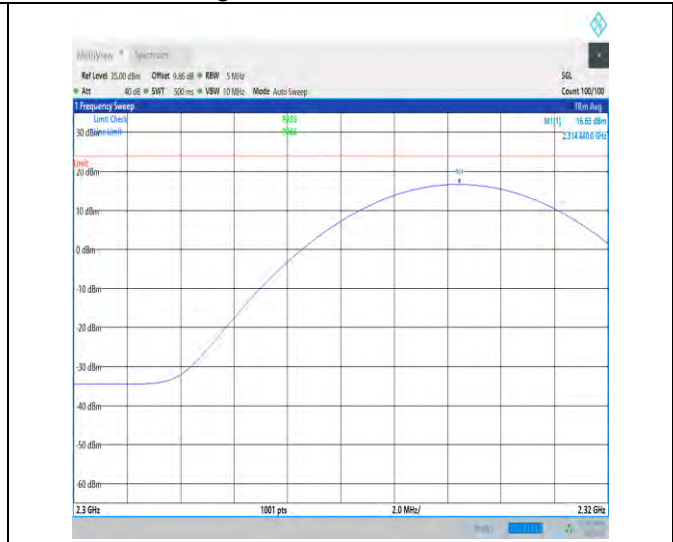
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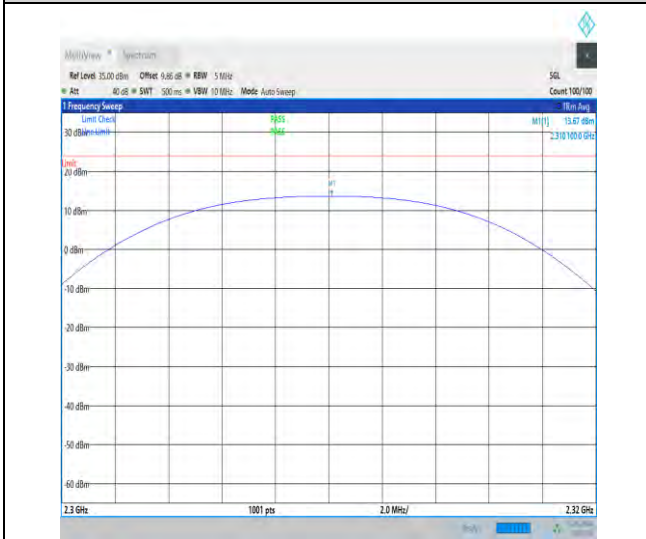




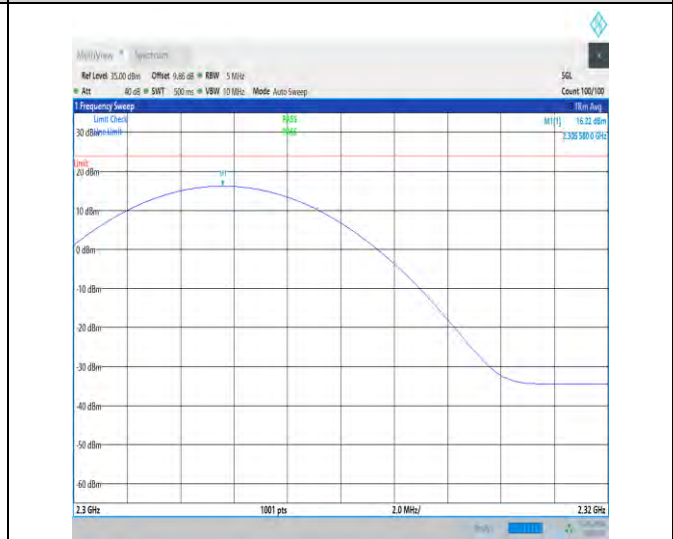
1-N30-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 2300-2320-Ant1-2305.56-16.22-23.98-PASS



1-N30-15-10-M-2-DFT-PI2BPSK-Inner\_1RB\_Right-1 @ 50-2300-2320-Ant1-2314.44-16.65-23.98-PASS



1-N30-15-10-M-3-DFT-PI2BPSK-Outer\_Full-50@0-2300-2320-Ant1-2310.10-13.67-23.98-PASS



1-N30-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@ 1-2300-2320-Ant1-2305.58-16.22-23.98-PASS

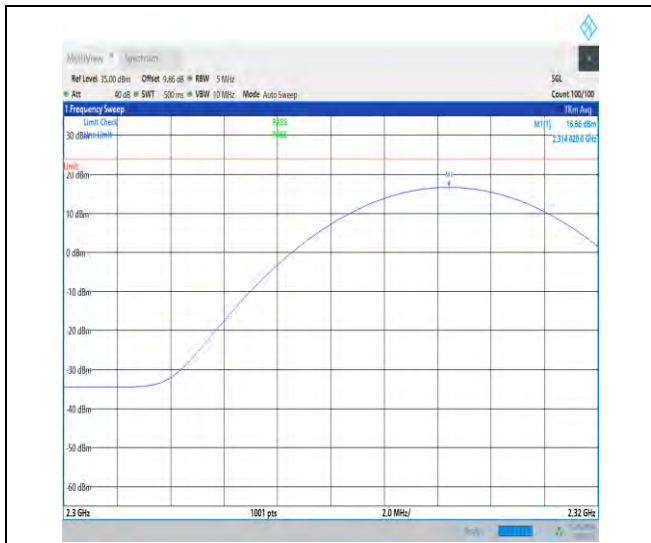


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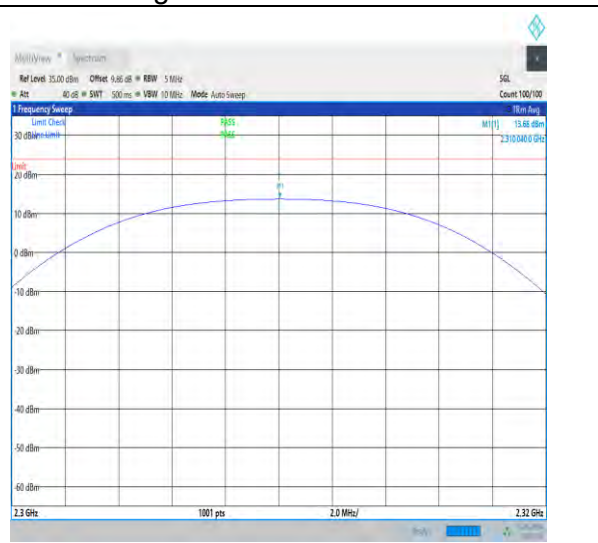
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1-N30-15-10-H-2-DFT-PI2BPSK-Inner\_1RB\_Right-1  
@50-2300-2320-Ant1-2314.42-16.66-23.98-PASS



1-N30-15-10-H-3-DFT-PI2BPSK-Outer\_Full-50@0-23  
00-2320-Ant1-2310.04-13.68-23.98-PASS



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## Peak-to-Average Ratio for SA

## Peak-to-Average Ratio(CCDF)

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N30	15	10	DFT-256QAM	L	Outer_Full	6.53	13	PASS
N30	15	10	CP-256QAM	L	Outer_Full	8.41	13	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	8.75	13	PASS
N30	15	10	CP-256QAM	M	Outer_Full	8.41	13	PASS
N30	15	10	DFT-256QAM	H	Outer_Full	8.75	13	PASS
N30	15	10	CP-256QAM	H	Outer_Full	8.42	13	PASS



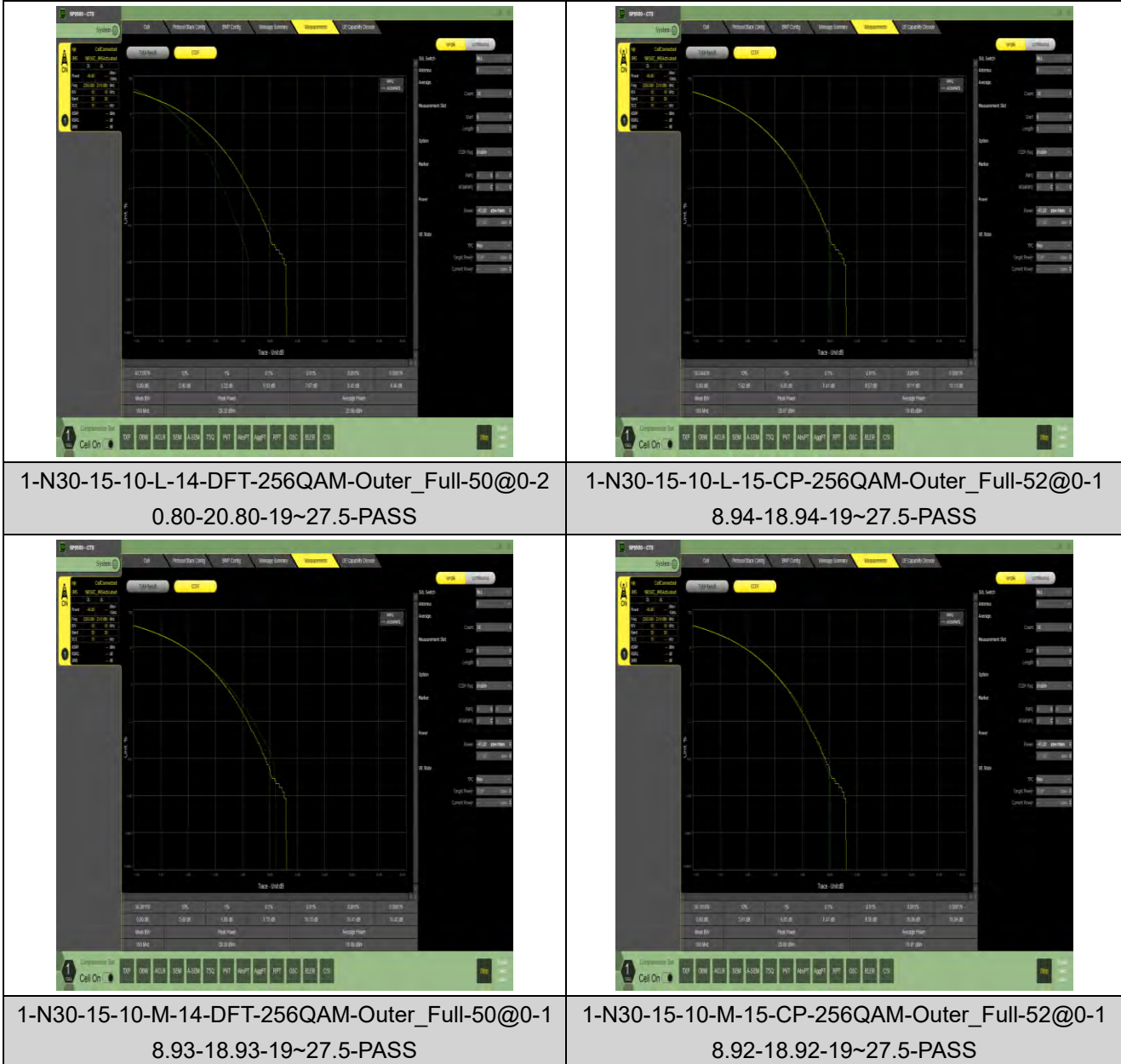
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1-N30-15-10-H-14-DFT-256QAM-Outer\_Full-50@0-1  
 8.94-18.94-19~27.5-PASS

1-N30-15-10-H-15-CP-256QAM-Outer\_Full-52@0-1  
 8.93-18.93-19~27.5-PASS



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## 26dB Bandwidth and Occupied Bandwidth for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N30	15	5	DFT-QPSK	M	Outer_Full	4.469	5.140	PASS
N30	15	5	DFT-PI2BPSK	M	Outer_Full	4.466	5.160	PASS
N30	15	5	DFT-16QAM	M	Outer_Full	4.474	5.290	PASS
N30	15	5	DFT-64QAM	M	Outer_Full	4.471	4.950	PASS
N30	15	5	DFT-256QAM	M	Outer_Full	4.477	5.020	PASS
N30	15	5	CP-QPSK	M	Outer_Full	4.518	5.070	PASS
N30	15	5	CP-16QAM	M	Outer_Full	4.507	5.130	PASS
N30	15	5	CP-64QAM	M	Outer_Full	4.499	5.020	PASS
N30	15	5	CP-256QAM	M	Outer_Full	4.507	5.270	PASS
N30	15	10	DFT-QPSK	M	Outer_Full	8.914	9.700	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	8.907	9.480	PASS
N30	15	10	DFT-16QAM	M	Outer_Full	8.946	9.520	PASS
N30	15	10	DFT-64QAM	M	Outer_Full	8.93	9.640	PASS
N30	15	10	DFT-256QAM	M	Outer_Full	8.911	9.560	PASS
N30	15	10	CP-QPSK	M	Outer_Full	9.288	10.080	PASS
N30	15	10	CP-16QAM	M	Outer_Full	9.274	10.040	PASS
N30	15	10	CP-64QAM	M	Outer_Full	9.286	9.960	PASS
N30	15	10	CP-256QAM	M	Outer_Full	9.302	9.820	PASS



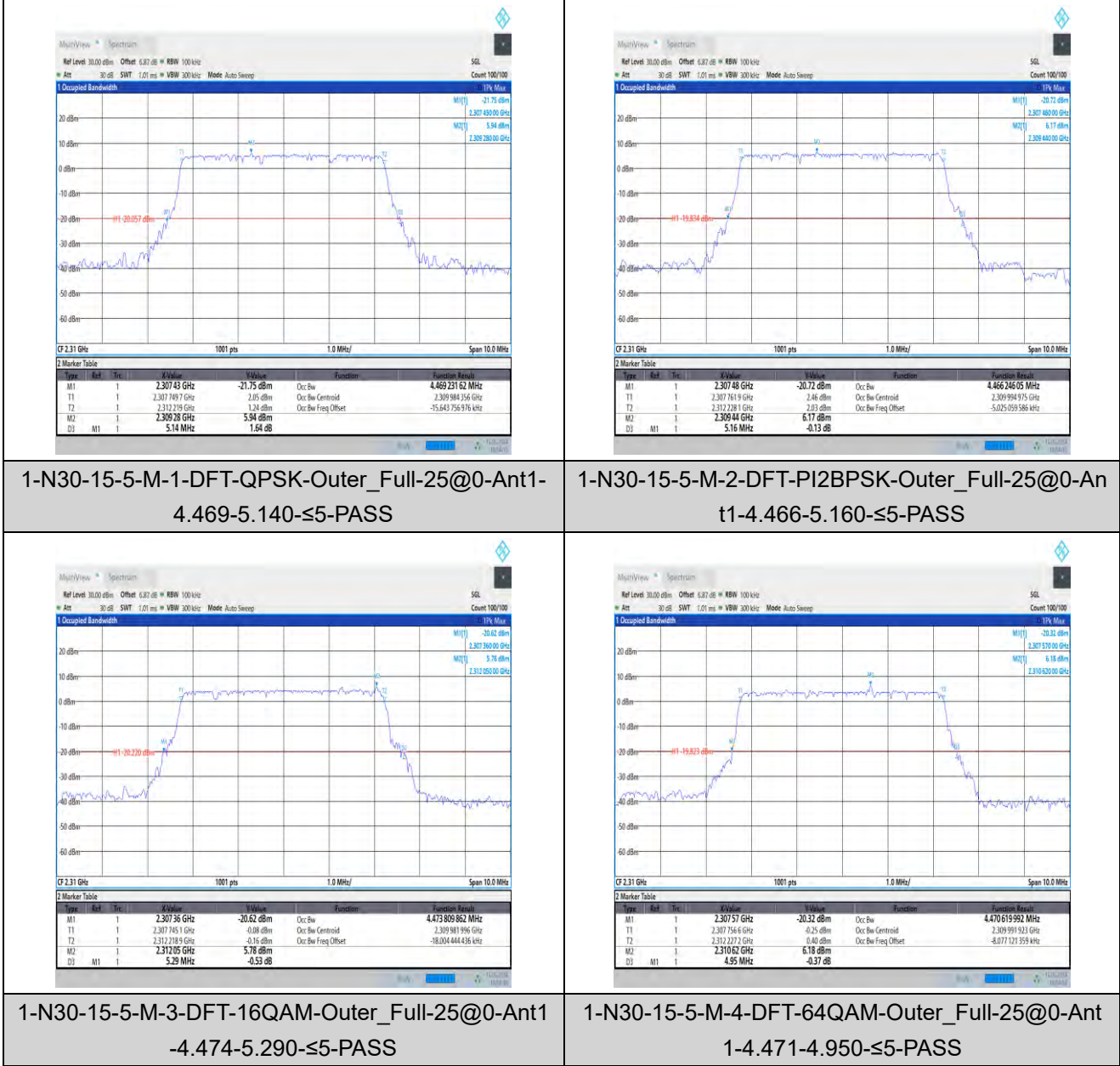
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1-N30-15-5-M-5-DFT-256QAM-Outer\_Full-25@0-Ant  
 1-4.477-5.020-≤5-PASS



1-N30-15-5-M-6-CP-QPSK-Outer\_Full-25@0-Ant1-4  
 .518-5.070-≤5-PASS



1-N30-15-5-M-7-CP-16QAM-Outer\_Full-25@0-Ant1-7  
 4.507-5.130-≤5-PASS



1-N30-15-5-M-8-CP-64QAM-Outer\_Full-25@0-Ant1-8  
 4.499-5.020-≤5-PASS



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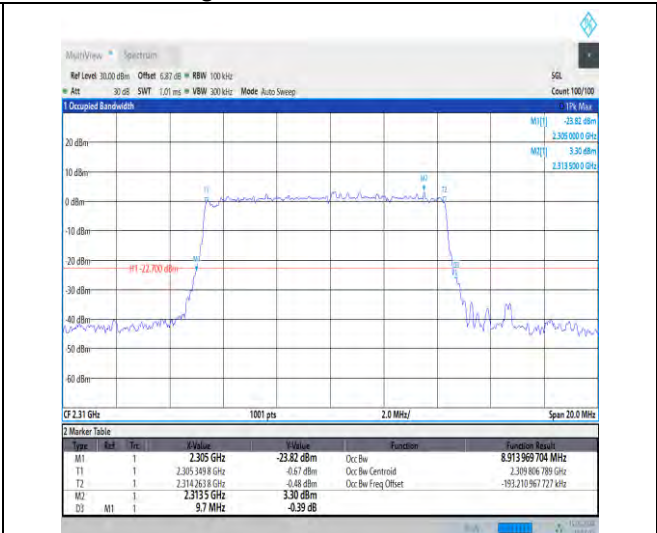
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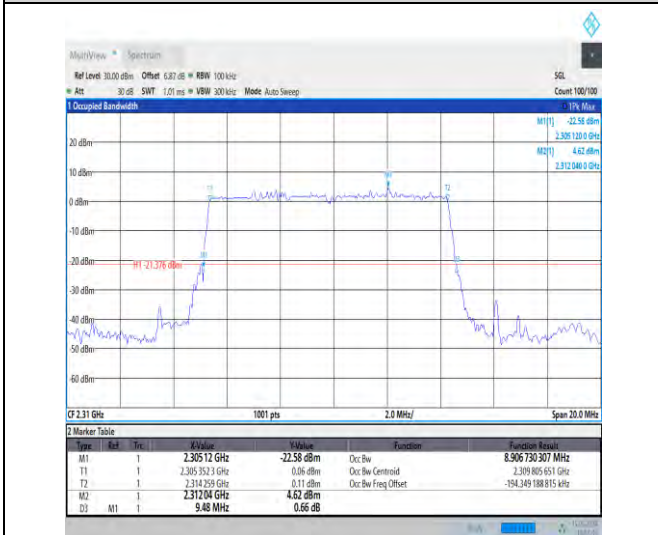




1-N30-15-5-M-9-CP-256QAM-Outer\_Full-25@0-Ant1  
-4.507-5.270-≤5-PASS



1-N30-15-10-M-1-DFT-QPSK-Outer\_Full-50@0-Ant1  
-8.914-9.700-≤10-PASS



1-N30-15-10-M-2-DFT-PI2BPSK-Outer\_Full-50@0-Ant1  
-8.907-9.480-≤10-PASS



1-N30-15-10-M-3-DFT-16QAM-Outer\_Full-50@0-Ant1  
-8.946-9.520-≤10-PASS



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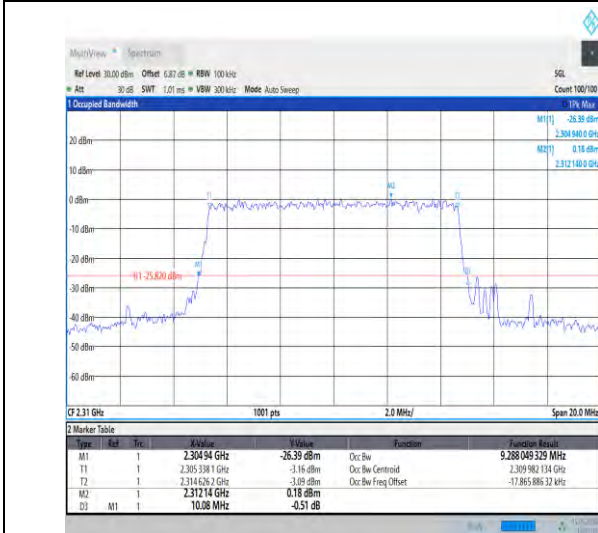
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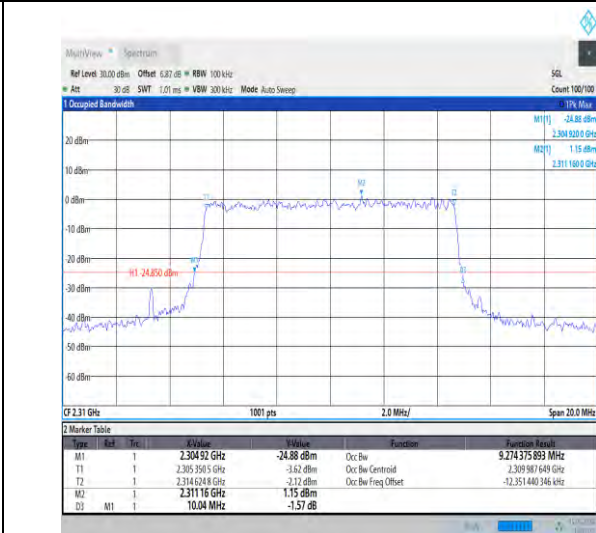
1-N30-15-10-M-4-DFT-64QAM-Outer\_Full-50@0-Ant  
1-8.93-9.640-≤10-PASS



1-N30-15-10-M-5-DFT-256QAM-Outer\_Full-50@0-A  
nt1-8.911-9.560-≤10-PASS



1-N30-15-10-M-6-CP-QPSK-Outer\_Full-52@0-Ant1-  
9.288-10.080-≤10-PASS



1-N30-15-10-M-7-CP-16QAM-Outer\_Full-52@0-Ant  
1-9.274-10.040-≤10-PASS



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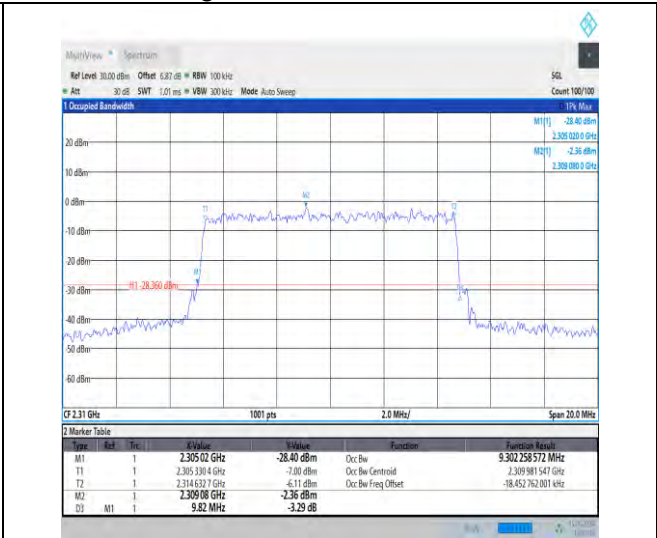
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-9.286-9.960-≤10-PASS



1-N30-15-10-M-9-CP-256QAM-Outer\_Full-52@0-An  
t1-9.302-9.820-≤10-PASS



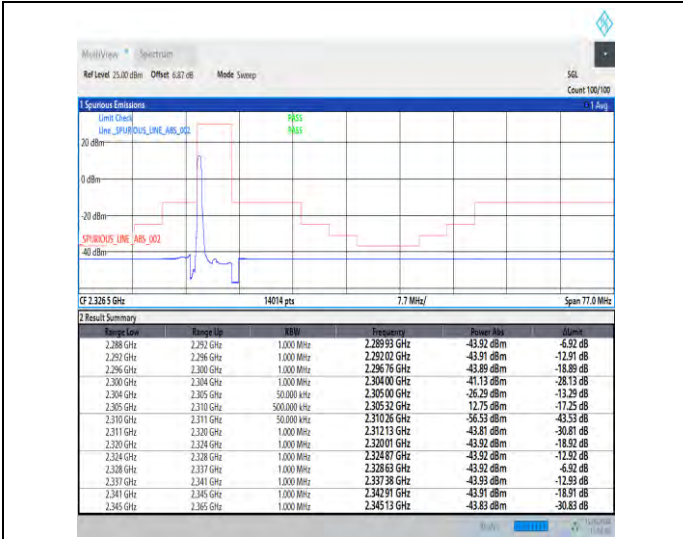
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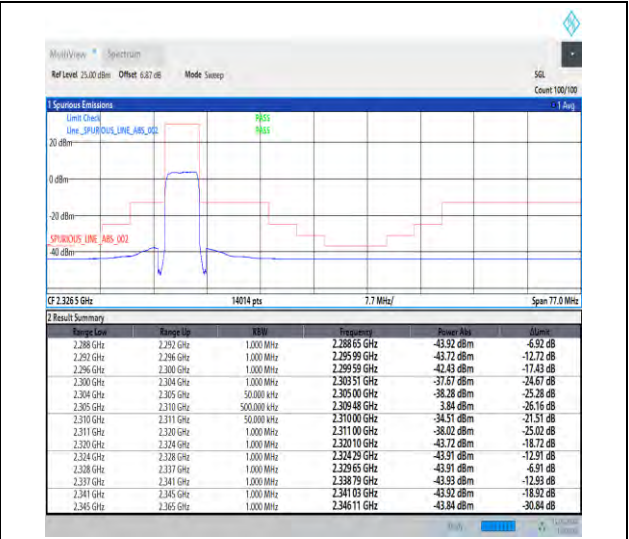
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## Band Edge for SA

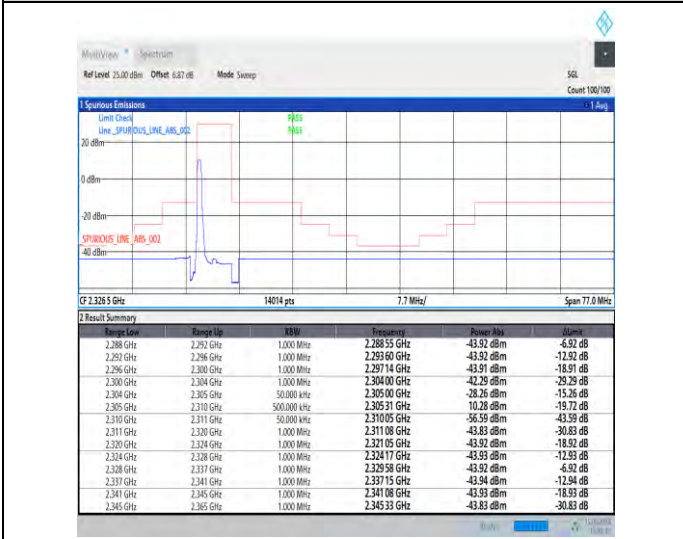
### Test Graphs



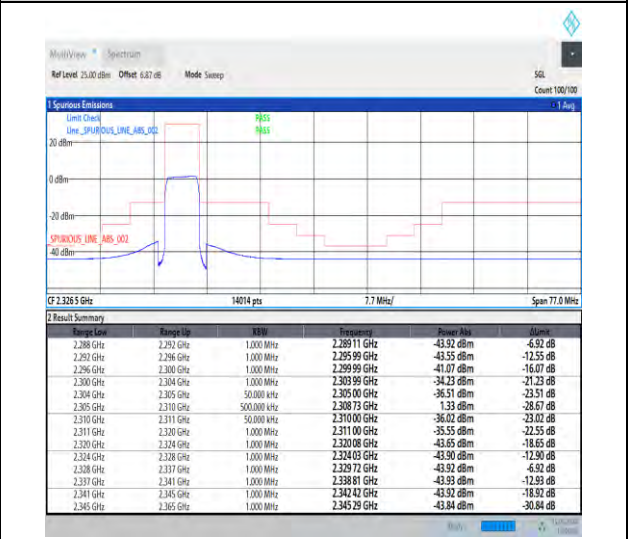
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1-N30-15-5-L-3-DFT-PI2BPSK-Outer\_Full-25@0-A nt1-1--PASS-see graph



1-N30-15-5-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-A nt1-1--PASS-see graph



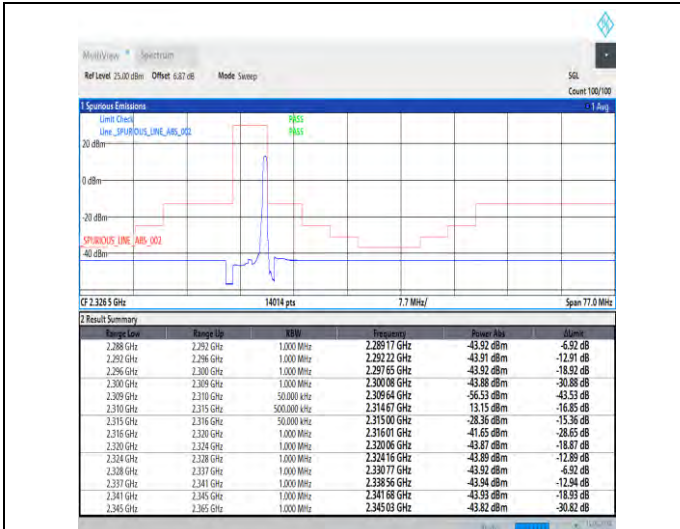
1-N30-15-5-L-6-CP-QPSK-Outer\_Full-25@0-A nt1-1--PASS-see graph



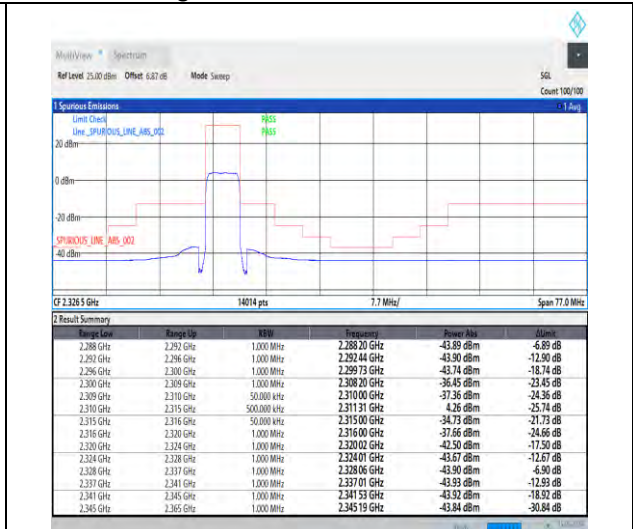
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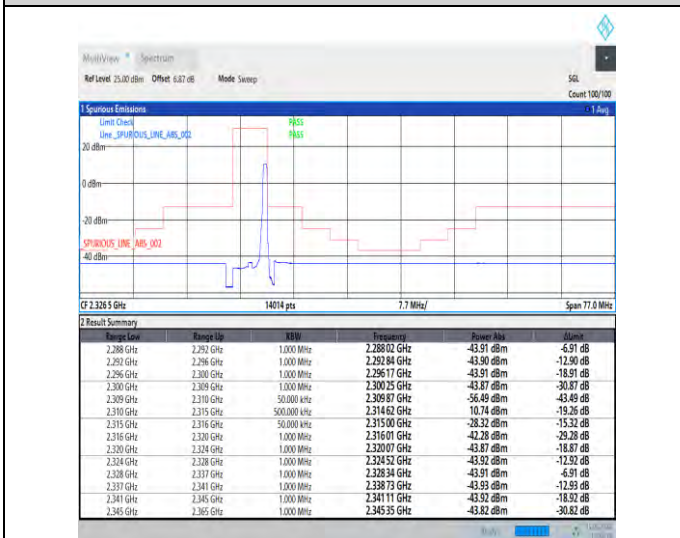
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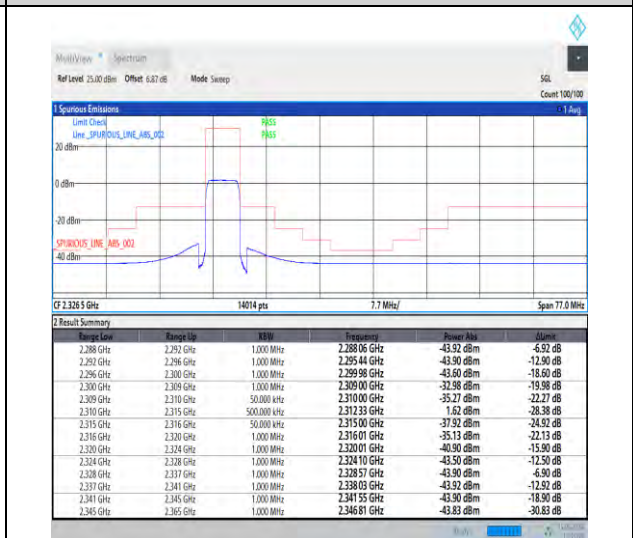
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4-Ant1-1--PASS-see graph



1-N30-15-5-H-3-DFT-PI2BPSK-Outer\_Full-25@0-Ant1-1--PASS-see graph



1-N30-15-5-H-5-CP-QPSK-Edge\_1RB\_Right-1@24-Ant1-1--PASS-see graph



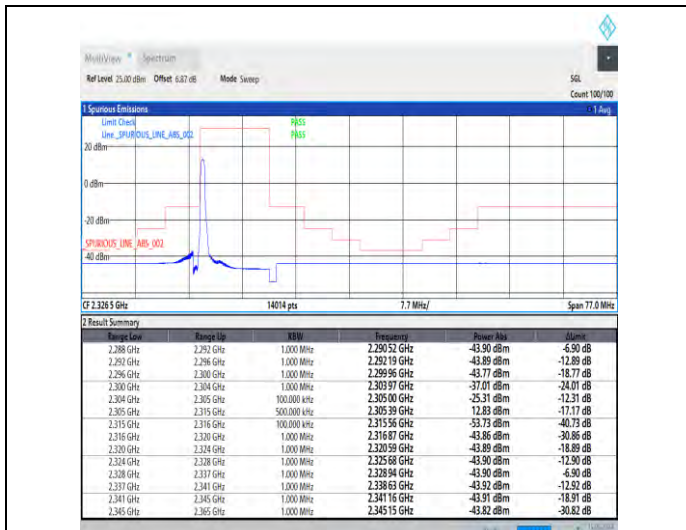
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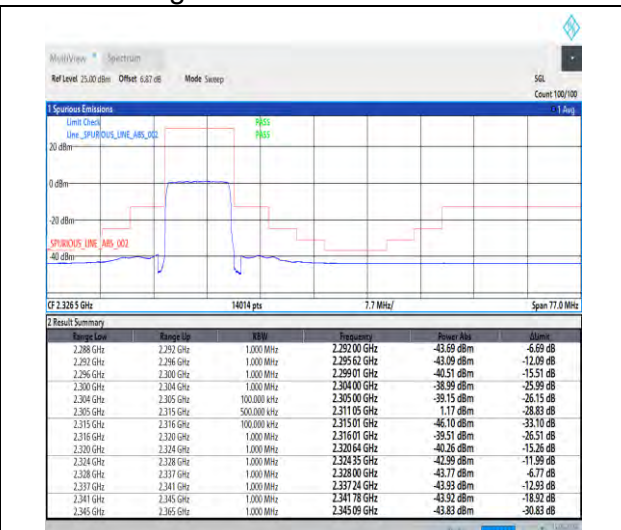
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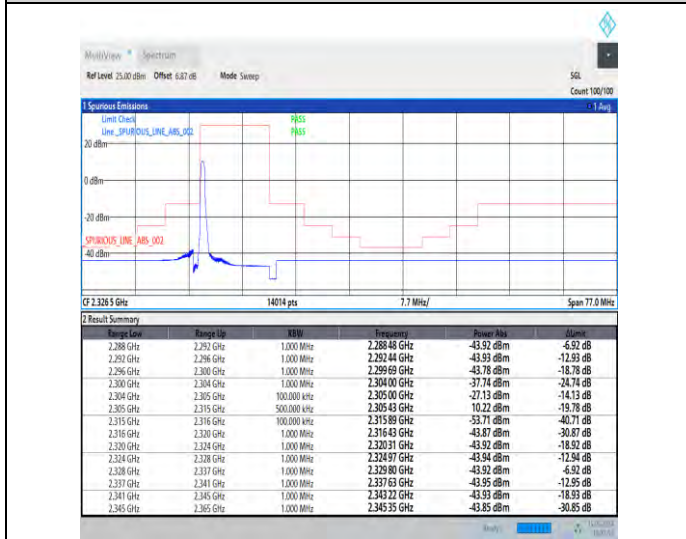
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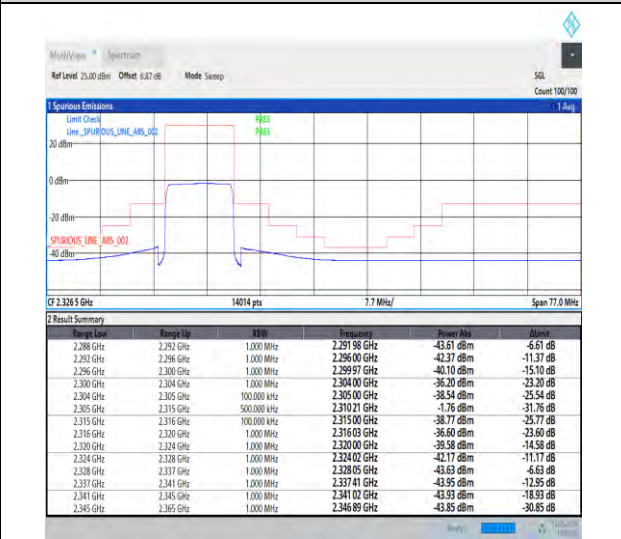
1-N30-15-10-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



1-N30-15-10-L-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



1-N30-15-10-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



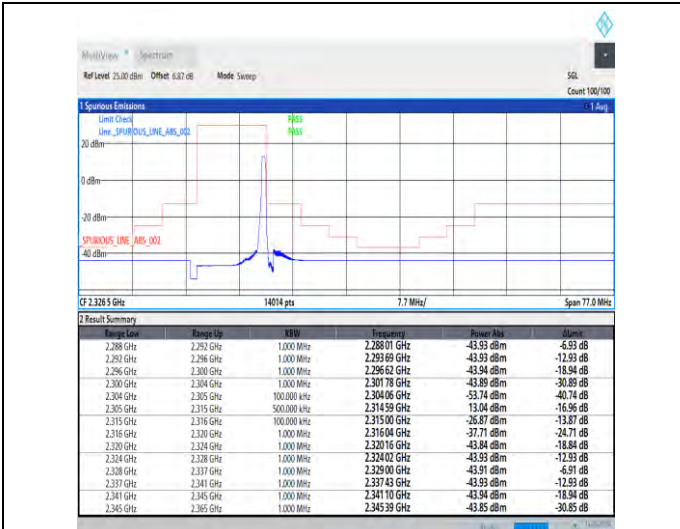
1-N30-15-10-L-6-CP-QPSK-Outer\_Full-52@0-Ant1-1--PASS-see graph



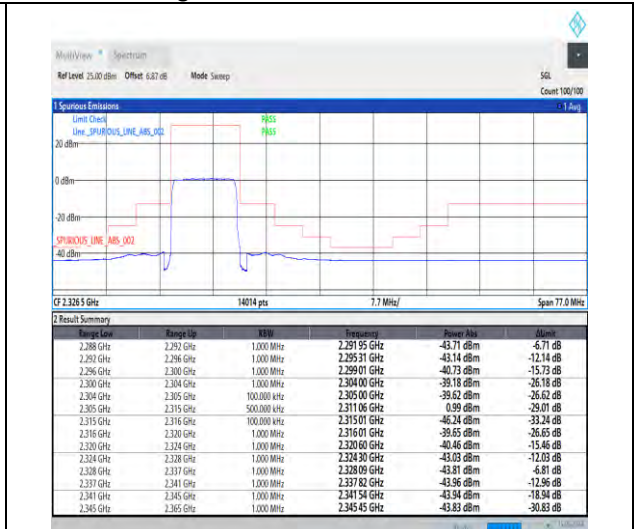
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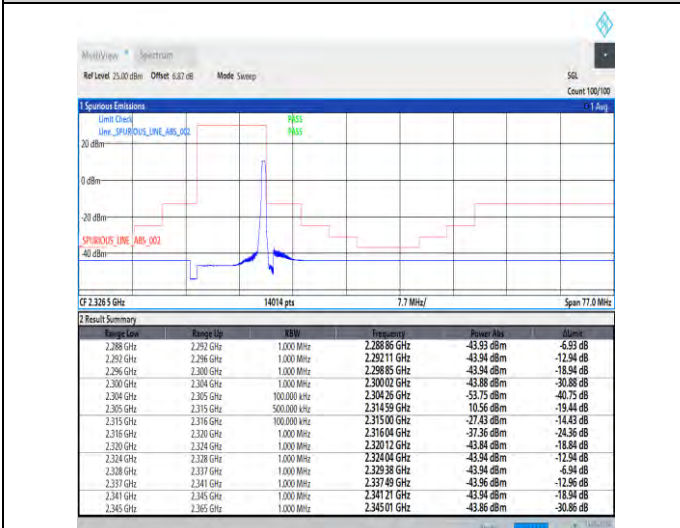
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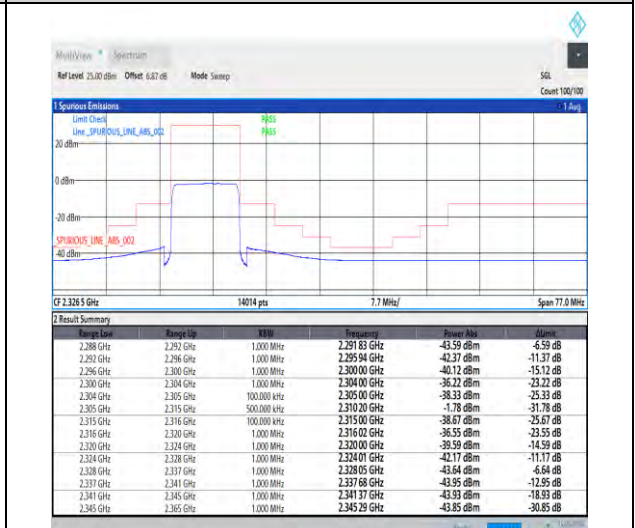
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1-N30-15-10-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



1-N30-15-10-H-5-CP-QPSK-Edge\_1RB\_Right-1@51-Ant1-1--PASS-see graph



1-N30-15-10-H-6-CP-QPSK-Outer\_Full-52@0-Ant1-1--PASS-see graph



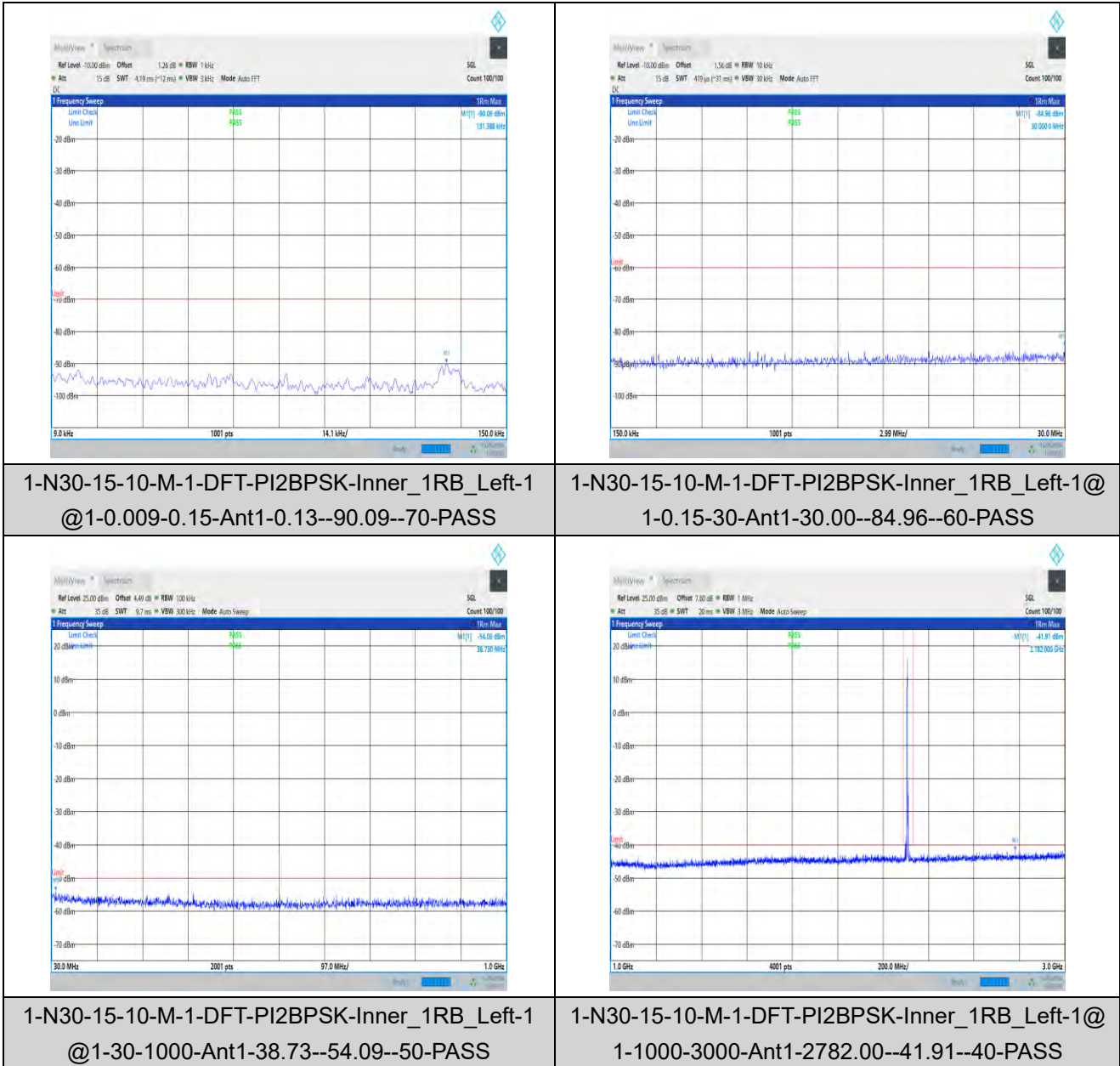
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## Conducted Spurious Emission for SA

### Test Graphs



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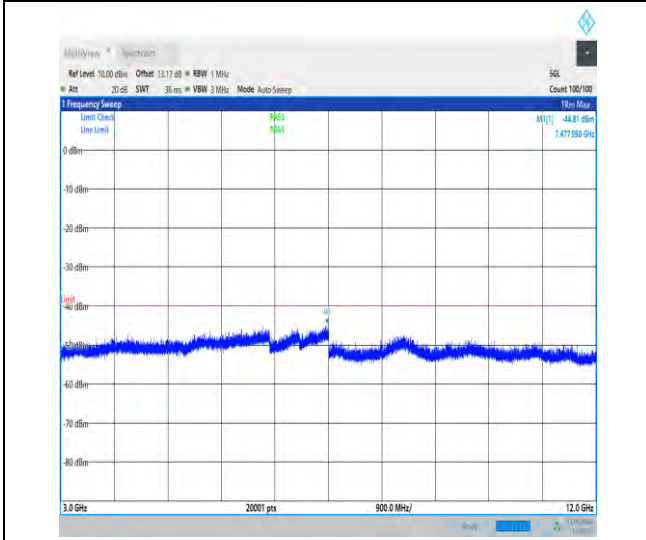
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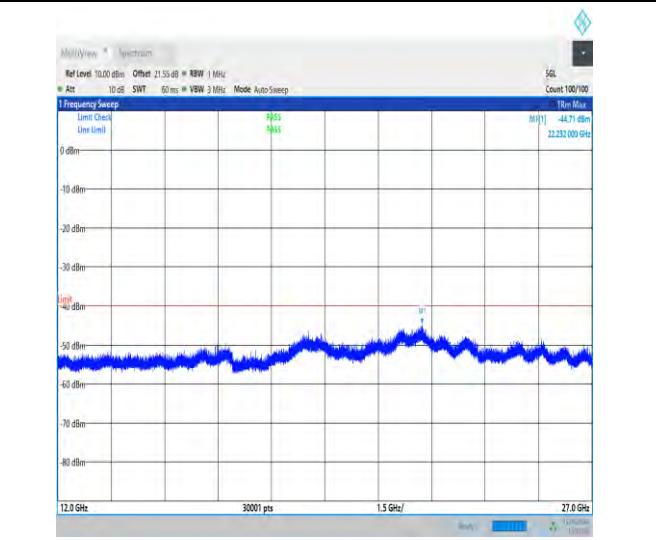
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1-N30-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-3000-12000-Ant1-7477.95--44.81--40-PASS



1-N30-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-12000-27000-Ant1-22232.00--44.71--40-PASS



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## Field Strength of Spurious Radiation

Test Band = SA 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	4116.5	43.56	-45.76	29.68	-67.78	-40.00	27.78	Horizontal
2	4879	43.35	-45.53	31.21	-66.24	-40.00	26.24	Horizontal
3	6157	43.21	-44.63	32.93	-63.74	-40.00	23.74	Horizontal
4	7892.5	42.64	-42.78	36.95	-58.45	-40.00	18.45	Horizontal
5	9506.5	39.38	-40.19	37.51	-58.56	-40.00	18.56	Horizontal
6	12054	36.74	-37.47	39.12	-56.88	-40.00	16.88	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3846.5	44.45	-46.09	29.15	-67.74	-40.00	27.74	Vertical
2	4884	43.90	-45.53	31.21	-65.68	-40.00	25.68	Vertical
3	6194	44.28	-44.74	33.06	-62.66	-40.00	22.66	Vertical
4	7949	42.36	-42.59	37.03	-58.46	-40.00	18.46	Vertical
5	10047	38.28	-39.18	38.50	-57.66	-40.00	17.66	Vertical
6	11400.5	37.15	-37.37	38.80	-56.68	-40.00	16.68	Vertical



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**Test Band = SA 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	4011	43.44	-46.01	29.43	-68.40	-40.00	28.40	Horizontal
2	5188	43.81	-45.29	31.74	-65.00	-40.00	25.00	Horizontal
3	6785	43.18	-44.12	34.61	-61.58	-40.00	21.58	Horizontal
4	9200.5	39.03	-40.25	36.90	-59.58	-40.00	19.58	Horizontal
5	11435	36.93	-37.35	38.82	-56.86	-40.00	16.86	Horizontal
6	13755	35.37	-36.29	40.46	-55.73	-40.00	15.73	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4255	43.76	-45.64	30.01	-67.13	-40.00	27.13	Vertical
2	5374	44.71	-45.25	32.07	-63.72	-40.00	23.72	Vertical
3	7004	42.71	-43.58	35.01	-61.12	-40.00	21.12	Vertical
4	9870	38.82	-39.38	38.24	-57.58	-40.00	17.58	Vertical
5	12169	36.59	-37.44	39.15	-56.96	-40.00	16.96	Vertical
6	13749	35.67	-36.28	40.45	-55.42	-40.00	15.42	Vertical



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Test Band = SA 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	3987	44.19	-46.07	29.38	-67.76	-40.00	27.76	Horizontal
2	4929.5	44.18	-45.56	31.29	-65.36	-40.00	25.36	Horizontal
3	6329	43.59	-44.50	33.52	-62.65	-40.00	22.65	Horizontal
4	7583.5	41.86	-42.96	36.52	-59.85	-40.00	19.85	Horizontal
5	10052.5	38.56	-39.18	38.51	-57.37	-40.00	17.37	Horizontal
6	11502.5	36.41	-37.30	38.85	-57.30	-40.00	17.30	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4390.5	44.70	-45.79	30.34	-66.02	-40.00	26.02	Vertical
2	5984	44.19	-44.85	32.40	-63.53	-40.00	23.53	Vertical
3	7720	42.04	-42.96	36.71	-59.47	-40.00	19.47	Vertical
4	9365.5	40.40	-39.96	37.23	-57.59	-40.00	17.59	Vertical
5	12164	36.93	-37.44	39.15	-56.62	-40.00	16.62	Vertical
6	13844.5	34.58	-35.98	40.58	-56.07	-40.00	16.07	Vertical



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Test Band = SA 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	3701.5	43.90	-45.51	28.92	-67.94	-40.00	27.94	Horizontal
2	5242	43.65	-45.20	31.84	-64.97	-40.00	24.97	Horizontal
3	6008.5	43.59	-44.80	32.43	-64.04	-40.00	24.04	Horizontal
4	7889	42.18	-42.76	36.94	-58.90	-40.00	18.90	Horizontal
5	9482	40.22	-40.16	37.46	-57.73	-40.00	17.73	Horizontal
6	11944	36.42	-37.33	39.07	-57.10	-40.00	17.10	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4167.5	43.40	-45.77	29.80	-67.82	-40.00	27.82	Vertical
2	5259	44.55	-45.17	31.87	-64.01	-40.00	24.01	Vertical
3	6588	42.80	-44.38	34.26	-62.58	-40.00	22.58	Vertical
4	8751.5	42.10	-41.46	36.65	-57.97	-40.00	17.97	Vertical
5	11274.5	36.74	-37.41	38.74	-57.20	-40.00	17.20	Vertical
6	13391	35.44	-36.36	39.95	-56.23	-40.00	16.23	Vertical



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**Test Band = NSA 2A\_n30A\_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	3701	43.04	-45.50	28.92	-68.80	-40.00	28.80	Horizontal
2	5101.5	43.36	-45.37	31.58	-65.69	-40.00	25.69	Horizontal
3	6701	42.99	-43.81	34.46	-61.62	-40.00	21.62	Horizontal
4	8425.5	41.21	-41.49	36.84	-58.70	-40.00	18.70	Horizontal
5	11046	36.16	-37.90	38.62	-58.38	-40.00	18.38	Horizontal
6	12745.5	36.35	-36.75	39.32	-56.33	-40.00	16.33	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3875	45.15	-46.19	29.20	-67.10	-40.00	27.10	Vertical
2	5367	44.55	-45.23	32.06	-63.88	-40.00	23.88	Vertical
3	7127	42.72	-44.00	35.36	-61.18	-40.00	21.18	Vertical
4	9350	40.38	-40.03	37.20	-57.71	-40.00	17.71	Vertical
5	11945	36.20	-37.34	39.07	-57.33	-40.00	17.33	Vertical
6	14996.5	33.86	-34.63	41.60	-54.43	-40.00	14.43	Vertical



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**Test Band = NSA 2A\_n30A\_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	4284	42.98	-45.58	30.08	-67.78	-40.00	27.78	Horizontal
2	6158.5	42.99	-44.63	32.94	-63.96	-40.00	23.96	Horizontal
3	7559.5	41.53	-43.02	36.48	-60.26	-40.00	20.26	Horizontal
4	8846	41.43	-41.25	36.59	-58.48	-40.00	18.48	Horizontal
5	12158.5	36.14	-37.43	39.15	-57.40	-40.00	17.40	Horizontal
6	14198.5	33.63	-35.31	40.96	-55.98	-40.00	15.98	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3977.5	39.75	-46.09	29.36	-72.24	-40.00	32.24	Vertical
2	5408	40.32	-45.30	32.13	-68.10	-40.00	28.10	Vertical
3	7437	38.86	-43.31	36.22	-63.49	-40.00	23.49	Vertical
4	9415.5	37.66	-39.89	37.33	-60.16	-40.00	20.16	Vertical
5	12165.5	35.42	-37.44	39.15	-58.13	-40.00	18.13	Vertical
6	15127	33.21	-34.67	41.33	-55.39	-40.00	15.39	Vertical



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**Test Band = NSA 2A\_n30A\_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	4563	44.01	-45.68	30.70	-66.23	-40.00	26.23	Horizontal
2	6693.5	42.24	-43.85	34.45	-62.42	-40.00	22.42	Horizontal
3	8807	41.32	-41.25	36.62	-58.57	-40.00	18.57	Horizontal
4	10875.5	36.52	-38.01	38.59	-58.16	-40.00	18.16	Horizontal
5	15357	32.44	-33.89	40.85	-55.86	-40.00	15.86	Horizontal
6	17034	33.22	-33.61	42.25	-53.40	-40.00	13.40	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3978	39.41	-46.09	29.36	-72.58	-40.00	32.58	Vertical
2	5537	40.17	-45.18	32.31	-67.96	-40.00	27.96	Vertical
3	7446	38.77	-43.29	36.25	-63.53	-40.00	23.53	Vertical
4	9465	38.93	-40.09	37.43	-58.99	-40.00	18.99	Vertical
5	11958	35.73	-37.41	39.08	-57.86	-40.00	17.86	Vertical
6	15799.5	31.60	-33.02	39.92	-56.76	-40.00	16.76	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 for SA

### Test Result

### Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N30	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	-3.300000	-0.001429	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	-2.400000	-0.001039	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	-5.600000	-0.002424	PASS
N30	15	10	CP-QPSK	M	Outer_Full	VH	NT	-4.100000	-0.001775	PASS
N30	15	10	CP-QPSK	M	Outer_Full	VN	NT	-4.700000	-0.002035	PASS
N30	15	10	CP-QPSK	M	Outer_Full	VL	NT	-6.600000	-0.002857	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	-6.600000	-0.002857	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	-0.200000	-0.000087	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	-2.000000	-0.000866	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	-3.000000	-0.001299	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	-3.800000	-0.001645	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	-3.000000	-0.001299	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	0.000000	0.000000	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.100000	-0.000909	PASS
N30	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	1.300000	0.000563	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	-30	-0.500000	-0.000216	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	-20	-1.700000	-0.000736	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	-10	-6.800000	-0.002944	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	0	-1.600000	-0.000693	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	10	-6.600000	-0.002857	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	20	-0.300000	-0.000130	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	30	-2.900000	-0.001255	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	40	-1.800000	-0.000779	PASS
N30	15	10	CP-QPSK	M	Outer_Full	NV	50	-1.100000	-0.000476	PASS

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