

Report No.: SUCR240100001702

Rev.: 01

Page: 1 of 37

# Appendix B.25

## NR Band n14



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

### Test Result Ant1

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
N14	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	24.26	22.21	34.77	PASS
N14	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	24.20	22.15	34.77	PASS
N14	15	5	DFT-PI2BPSK	L	Outer_Full	23.95	21.9	34.77	PASS
N14	15	5	DFT-QPSK	L	Inner_1RB_Left	24.13	22.08	34.77	PASS
N14	15	5	DFT-QPSK	L	Inner_1RB_Right	24.07	22.02	34.77	PASS
N14	15	5	DFT-QPSK	L	Outer_Full	23.51	21.46	34.77	PASS
N14	15	5	DFT-16QAM	L	Inner_1RB_Left	23.47	21.42	34.77	PASS
N14	15	5	DFT-16QAM	L	Inner_1RB_Right	23.45	21.4	34.77	PASS
N14	15	5	DFT-16QAM	L	Outer_Full	22.50	20.45	34.77	PASS
N14	15	5	DFT-64QAM	L	Inner_1RB_Left	22.15	20.1	34.77	PASS
N14	15	5	DFT-64QAM	L	Inner_1RB_Right	22.06	20.01	34.77	PASS
N14	15	5	DFT-64QAM	L	Outer_Full	21.95	19.9	34.77	PASS
N14	15	5	DFT-256QAM	L	Inner_1RB_Left	19.42	17.37	34.77	PASS
N14	15	5	DFT-256QAM	L	Inner_1RB_Right	19.34	17.29	34.77	PASS
N14	15	5	DFT-256QAM	L	Outer_Full	19.92	17.87	34.77	PASS
N14	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	24.10	22.05	34.77	PASS
N14	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	24.16	22.11	34.77	PASS
N14	15	5	DFT-PI2BPSK	M	Outer_Full	23.87	21.82	34.77	PASS
N14	15	5	DFT-QPSK	M	Inner_1RB_Left	24.00	21.95	34.77	PASS
N14	15	5	DFT-QPSK	M	Inner_1RB_Right	23.99	21.94	34.77	PASS
N14	15	5	DFT-QPSK	M	Outer_Full	23.46	21.41	34.77	PASS
N14	15	5	DFT-16QAM	M	Inner_1RB_Left	23.45	21.4	34.77	PASS
N14	15	5	DFT-16QAM	M	Inner_1RB_Right	23.37	21.32	34.77	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	22.46	20.41	34.77	PASS
N14	15	5	DFT-64QAM	M	Inner_1RB_Left	22.12	20.07	34.77	PASS
N14	15	5	DFT-64QAM	M	Inner_1RB_Right	22.11	20.06	34.77	PASS
N14	15	5	DFT-64QAM	M	Outer_Full	21.94	19.89	34.77	PASS
N14	15	5	DFT-256QAM	M	Inner_1RB_Left	19.38	17.33	34.77	PASS
N14	15	5	DFT-256QAM	M	Inner_1RB_Right	19.38	17.33	34.77	PASS
N14	15	5	DFT-256QAM	M	Outer_Full	19.87	17.82	34.77	PASS
N14	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	24.11	22.06	34.77	PASS



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N14	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	24.08	22.03	34.77	PASS
N14	15	5	DFT-PI2BPSK	H	Outer_Full	23.90	21.85	34.77	PASS
N14	15	5	DFT-QPSK	H	Inner_1RB_Left	24.02	21.97	34.77	PASS
N14	15	5	DFT-QPSK	H	Inner_1RB_Right	24.00	21.95	34.77	PASS
N14	15	5	DFT-QPSK	H	Outer_Full	23.41	21.36	34.77	PASS
N14	15	5	DFT-16QAM	H	Inner_1RB_Left	23.48	21.43	34.77	PASS
N14	15	5	DFT-16QAM	H	Inner_1RB_Right	23.31	21.26	34.77	PASS
N14	15	5	DFT-16QAM	H	Outer_Full	22.41	20.36	34.77	PASS
N14	15	5	DFT-64QAM	H	Inner_1RB_Left	22.14	20.09	34.77	PASS
N14	15	5	DFT-64QAM	H	Inner_1RB_Right	22.01	19.96	34.77	PASS
N14	15	5	DFT-64QAM	H	Outer_Full	21.97	19.92	34.77	PASS
N14	15	5	DFT-256QAM	H	Inner_1RB_Left	19.38	17.33	34.77	PASS
N14	15	5	DFT-256QAM	H	Inner_1RB_Right	19.36	17.31	34.77	PASS
N14	15	5	DFT-256QAM	H	Outer_Full	19.86	17.81	34.77	PASS
N14	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	24.30	22.25	34.77	PASS
N14	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	24.21	22.16	34.77	PASS
N14	15	10	DFT-PI2BPSK	L	Outer_Full	23.95	21.9	34.77	PASS
N14	15	10	DFT-QPSK	L	Inner_1RB_Left	24.22	22.17	34.77	PASS
N14	15	10	DFT-QPSK	L	Inner_1RB_Right	24.07	22.02	34.77	PASS
N14	15	10	DFT-QPSK	L	Outer_Full	23.45	21.4	34.77	PASS
N14	15	10	DFT-16QAM	L	Inner_1RB_Left	23.44	21.39	34.77	PASS
N14	15	10	DFT-16QAM	L	Inner_1RB_Right	23.27	21.22	34.77	PASS
N14	15	10	DFT-16QAM	L	Outer_Full	22.52	20.47	34.77	PASS
N14	15	10	DFT-64QAM	L	Inner_1RB_Left	22.07	20.02	34.77	PASS
N14	15	10	DFT-64QAM	L	Inner_1RB_Right	21.94	19.89	34.77	PASS
N14	15	10	DFT-64QAM	L	Outer_Full	21.97	19.92	34.77	PASS
N14	15	10	DFT-256QAM	L	Inner_1RB_Left	19.48	17.43	34.77	PASS
N14	15	10	DFT-256QAM	L	Inner_1RB_Right	19.36	17.31	34.77	PASS
N14	15	10	DFT-256QAM	L	Outer_Full	19.94	17.89	34.77	PASS
N14	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	24.34	22.29	34.77	PASS
N14	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	24.11	22.06	34.77	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	24.02	21.97	34.77	PASS
N14	15	10	DFT-QPSK	M	Inner_1RB_Left	24.18	22.13	34.77	PASS
N14	15	10	DFT-QPSK	M	Inner_1RB_Right	24.13	22.08	34.77	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	23.50	21.45	34.77	PASS
N14	15	10	DFT-16QAM	M	Inner_1RB_Left	23.49	21.44	34.77	PASS
N14	15	10	DFT-16QAM	M	Inner_1RB_Right	23.16	21.11	34.77	PASS



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Report No.: SUCR240100001702

Rev.: 01

Page: 4 of 37

N14	15	10	DFT-16QAM	M	Outer_Full	22.52	20.47	34.77	PASS
N14	15	10	DFT-64QAM	M	Inner_1RB_Left	22.14	20.09	34.77	PASS
N14	15	10	DFT-64QAM	M	Inner_1RB_Right	21.85	19.8	34.77	PASS
N14	15	10	DFT-64QAM	M	Outer_Full	22.06	20.01	34.77	PASS
N14	15	10	DFT-256QAM	M	Inner_1RB_Left	19.47	17.42	34.77	PASS
N14	15	10	DFT-256QAM	M	Inner_1RB_Right	19.42	17.37	34.77	PASS
N14	15	10	DFT-256QAM	M	Outer_Full	19.93	17.88	34.77	PASS
N14	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	24.33	22.28	34.77	PASS
N14	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	24.09	22.04	34.77	PASS
N14	15	10	DFT-PI2BPSK	H	Outer_Full	24.00	21.95	34.77	PASS
N14	15	10	DFT-QPSK	H	Inner_1RB_Left	24.20	22.15	34.77	PASS
N14	15	10	DFT-QPSK	H	Inner_1RB_Right	24.11	22.06	34.77	PASS
N14	15	10	DFT-QPSK	H	Outer_Full	23.51	21.46	34.77	PASS
N14	15	10	DFT-16QAM	H	Inner_1RB_Left	23.36	21.31	34.77	PASS
N14	15	10	DFT-16QAM	H	Inner_1RB_Right	23.14	21.09	34.77	PASS
N14	15	10	DFT-16QAM	H	Outer_Full	22.51	20.46	34.77	PASS
N14	15	10	DFT-64QAM	H	Inner_1RB_Left	22.04	19.99	34.77	PASS
N14	15	10	DFT-64QAM	H	Inner_1RB_Right	21.92	19.87	34.77	PASS
N14	15	10	DFT-64QAM	H	Outer_Full	22.04	19.99	34.77	PASS
N14	15	10	DFT-256QAM	H	Inner_1RB_Left	19.39	17.34	34.77	PASS
N14	15	10	DFT-256QAM	H	Inner_1RB_Right	19.39	17.34	34.77	PASS
N14	15	10	DFT-256QAM	H	Outer_Full	19.93	17.88	34.77	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
N14	15	10	DFT-256QAM	L	Outer_Full	6.60	13	PASS
N14	15	10	CP-256QAM	L	Outer_Full	8.46	13	PASS
N14	15	10	DFT-256QAM	M	Outer_Full	8.79	13	PASS
N14	15	10	CP-256QAM	M	Outer_Full	8.44	13	PASS
N14	15	10	DFT-256QAM	H	Outer_Full	8.76	13	PASS
N14	15	10	CP-256QAM	H	Outer_Full	8.44	13	PASS



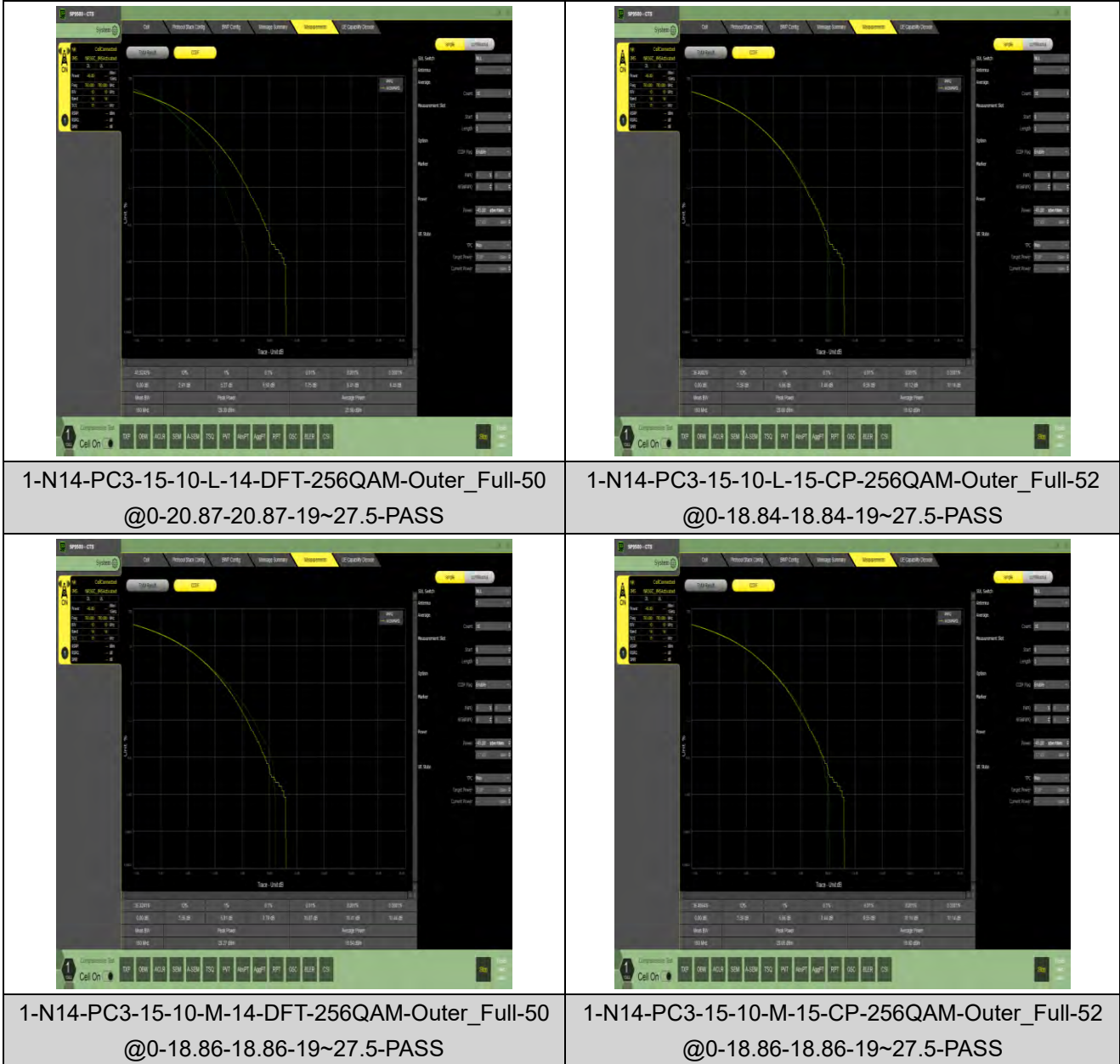
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Test Graphs



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1-N14-PC3-15-10-H-14-DFT-256QAM-Outer\_Full-50  
@0-18.87-18.87-19~27.5-PASS



1-N14-PC3-15-10-H-15-CP-256QAM-Outer\_Full-52  
@0-18.90-18.90-19~27.5-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
N14	15	5	DFT-QPSK	M	Outer_Full	4.5	5.070	PASS
N14	15	5	DFT-PI2BPSK	M	Outer_Full	4.476	5.000	PASS
N14	15	5	DFT-16QAM	M	Outer_Full	4.504	5.150	PASS
N14	15	5	DFT-64QAM	M	Outer_Full	4.499	5.080	PASS
N14	15	5	DFT-256QAM	M	Outer_Full	4.489	5.170	PASS
N14	15	5	CP-QPSK	M	Outer_Full	4.543	5.290	PASS
N14	15	5	CP-16QAM	M	Outer_Full	4.54	5.240	PASS
N14	15	5	CP-64QAM	M	Outer_Full	4.491	5.200	PASS
N14	15	5	CP-256QAM	M	Outer_Full	4.459	5.020	PASS
N14	15	10	DFT-QPSK	M	Outer_Full	8.917	9.720	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	8.907	9.660	PASS
N14	15	10	DFT-16QAM	M	Outer_Full	8.935	9.620	PASS
N14	15	10	DFT-64QAM	M	Outer_Full	8.932	9.620	PASS
N14	15	10	DFT-256QAM	M	Outer_Full	8.911	9.580	PASS
N14	15	10	CP-QPSK	M	Outer_Full	9.277	10.100	PASS
N14	15	10	CP-16QAM	M	Outer_Full	9.277	9.980	PASS
N14	15	10	CP-64QAM	M	Outer_Full	9.268	9.920	PASS
N14	15	10	CP-256QAM	M	Outer_Full	9.312	10.120	PASS



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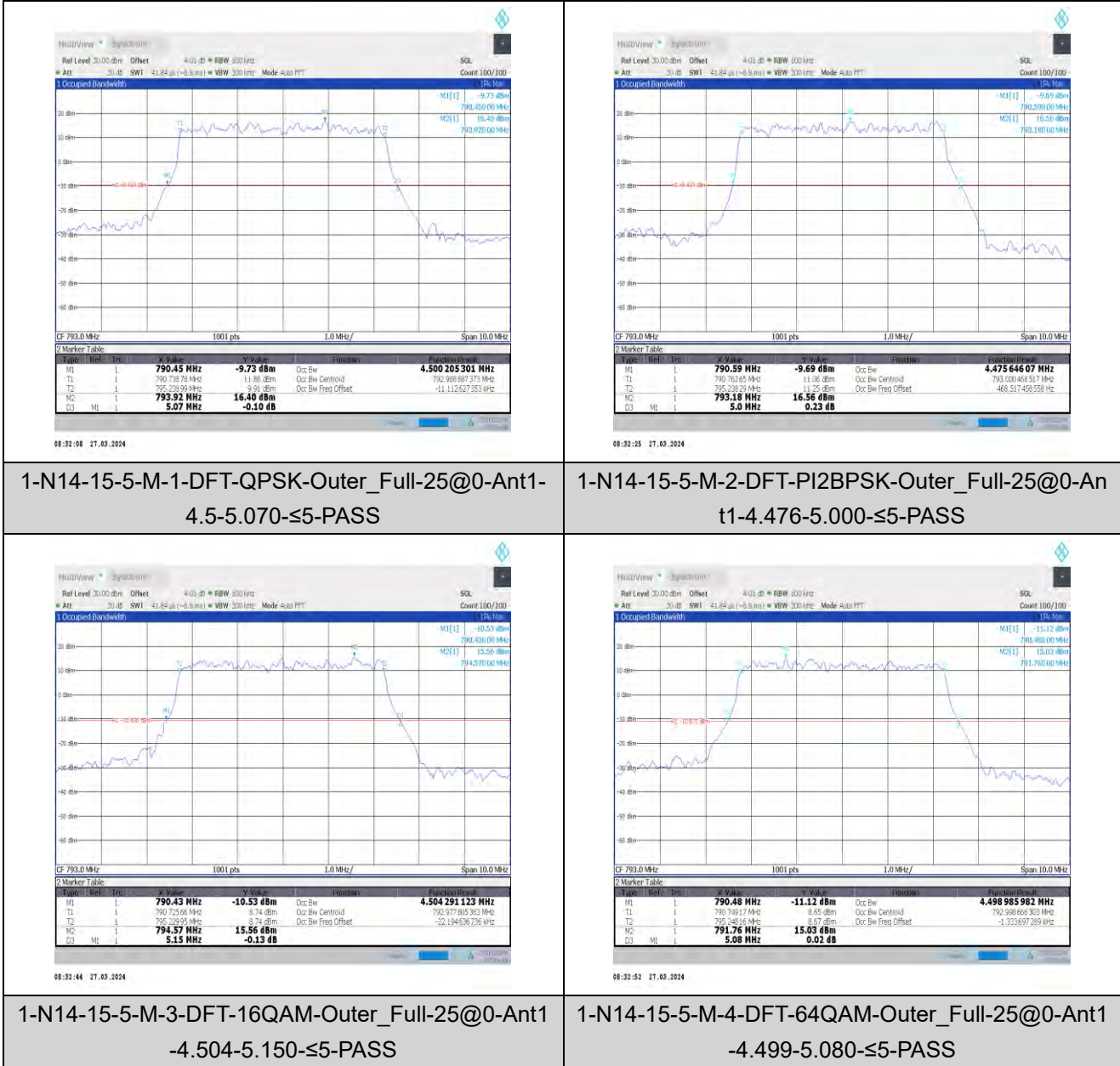
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Test Graphs



1-N14-15-5-M-1-DFT-QPSK-Outer\_Full-25@0-Ant1-4.5-5.070-≤5-PASS

1-N14-15-5-M-2-DFT-PI2BPSK-Outer\_Full-25@0-Ant1-4.476-5.000-≤5-PASS

1-N14-15-5-M-3-DFT-16QAM-Outer\_Full-25@0-Ant1-4.504-5.150-≤5-PASS

1-N14-15-5-M-4-DFT-64QAM-Outer\_Full-25@0-Ant1-4.499-5.080-≤5-PASS



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1-N14-15-5-M-5-DFT-256QAM-Outer\_Full-25@0-Ant  
1-4.489-5.170-≤5-PASS



1-N14-15-5-M-6-CP-QPSK-Outer\_Full-25@0-Ant1-4  
.543-5.290-≤5-PASS



1-N14-15-5-M-7-CP-16QAM-Outer\_Full-25@0-Ant1-7  
4.54-5.240-≤5-PASS



1-N14-15-5-M-8-CP-64QAM-Outer\_Full-25@0-Ant1-8  
4.491-5.200-≤5-PASS



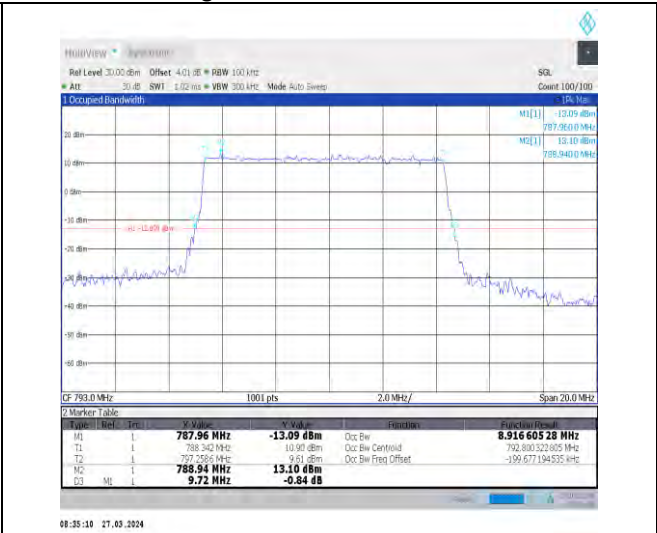
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1-N14-15-5-M-9-CP-256QAM-Outer\_Full-25@0-Ant1  
-4.459-5.020≤5-PASS



1-N14-15-10-M-1-DFT-QPSK-Outer\_Full-50@0-Ant1  
-8.917-9.720≤10-PASS



1-N14-15-10-M-2-DFT-PI2BPSK-Outer\_Full-50@0-Ant1  
-8.907-9.660≤10-PASS



1-N14-15-10-M-3-DFT-16QAM-Outer\_Full-50@0-Ant1  
-8.935-9.620≤10-PASS



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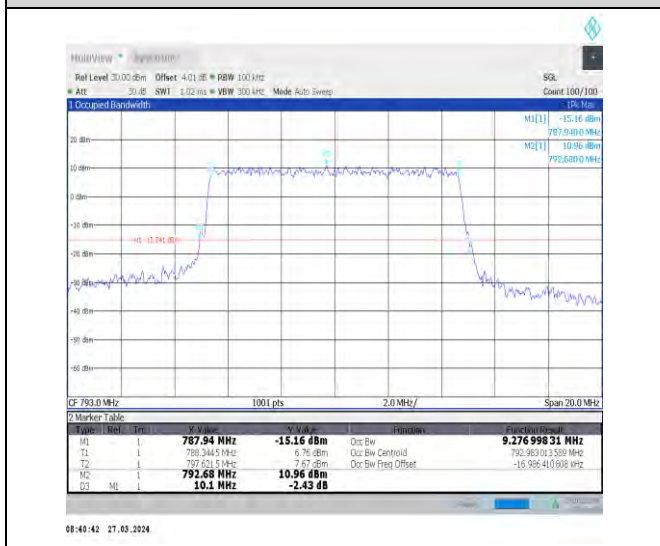
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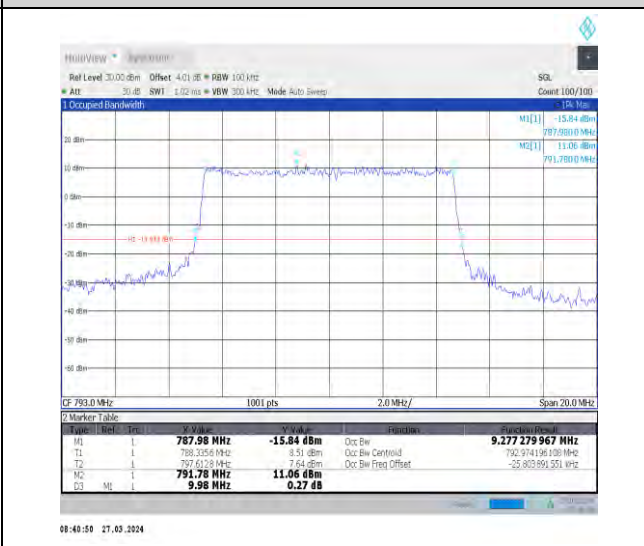
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1-8.932-9.620-≤10-PASS



1-N14-15-10-M-5-DFT-256QAM-Outer\_Full-50@0-A  
nt1-8.911-9.580-≤10-PASS



1-N14-15-10-M-6-CP-QPSK-Outer\_Full-52@0-Ant1  
9.277-10.100-≤10-PASS



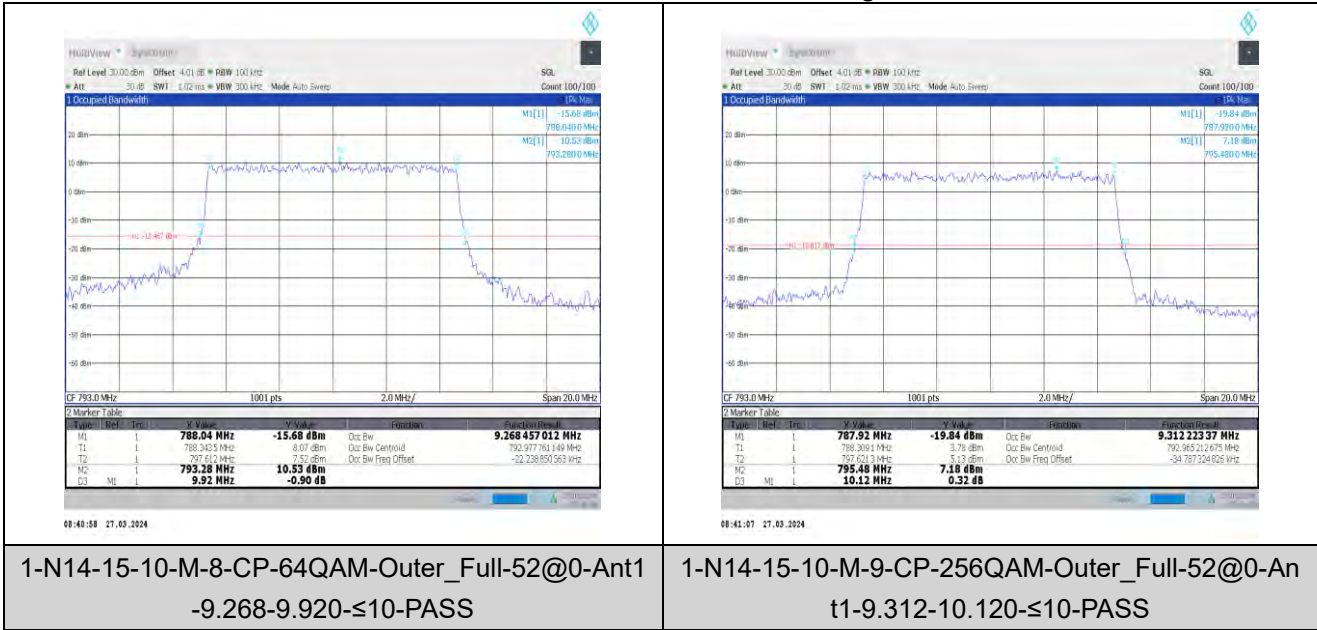
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1-9.277-9.980-≤10-PASS



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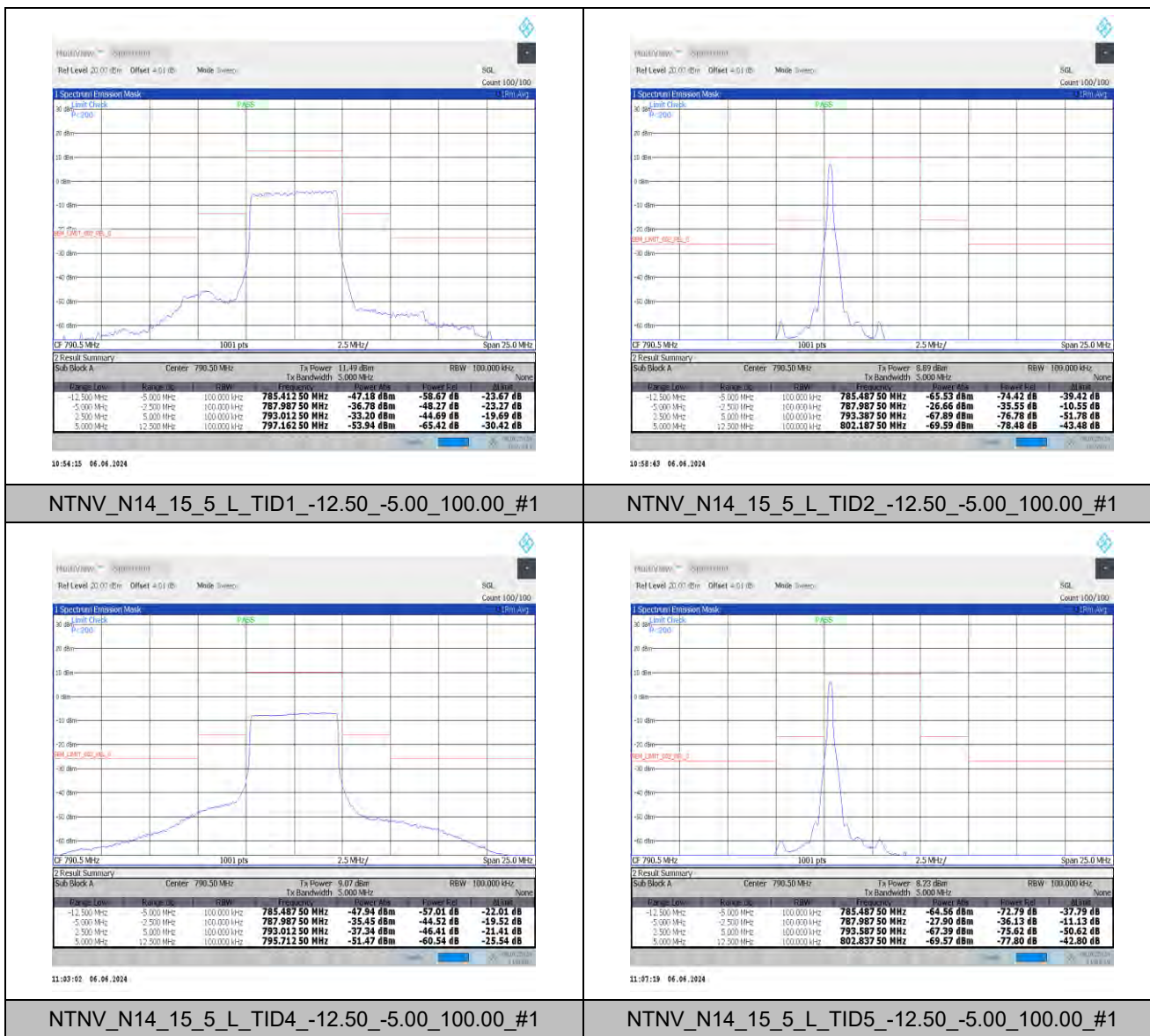
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# MASK for SA

## Test Graphs



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NTNV\_N14\_15\_5\_L\_TID4\_-12.50\_-5.00\_100.00\_#1

NTNV\_N14\_15\_5\_L\_TID5\_-12.50\_-5.00\_100.00\_#1



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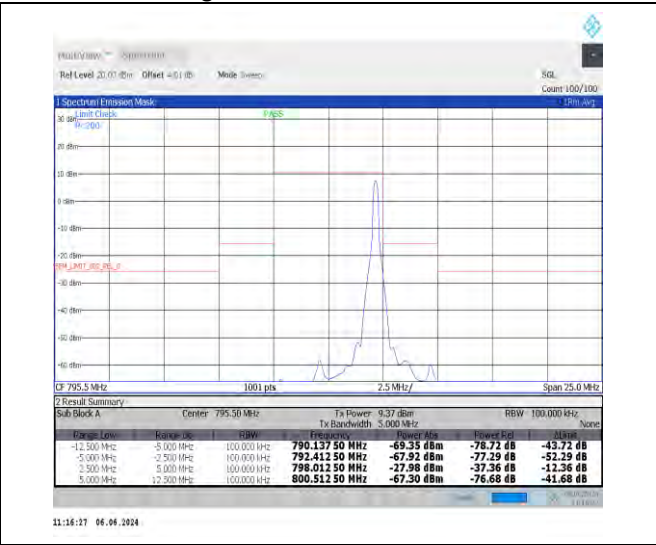
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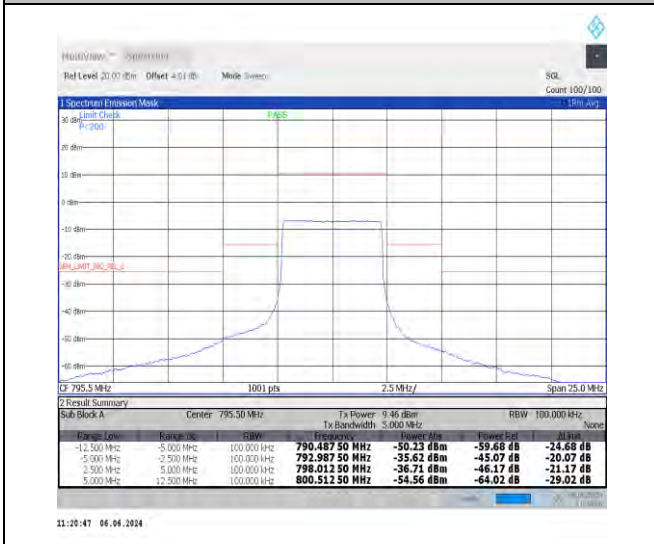
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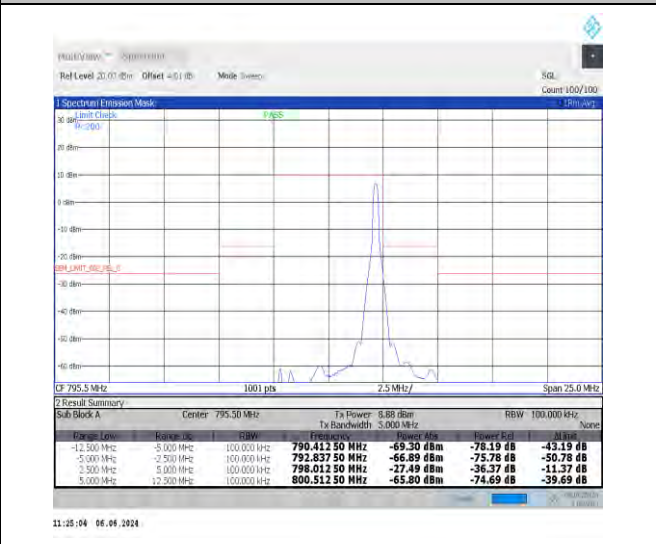
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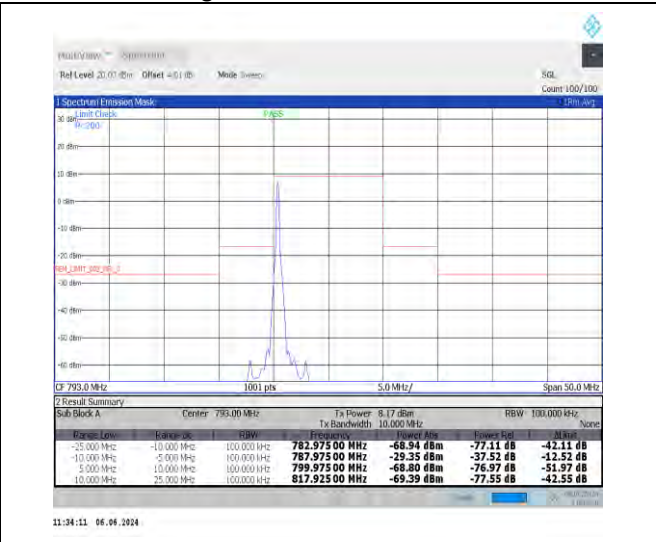
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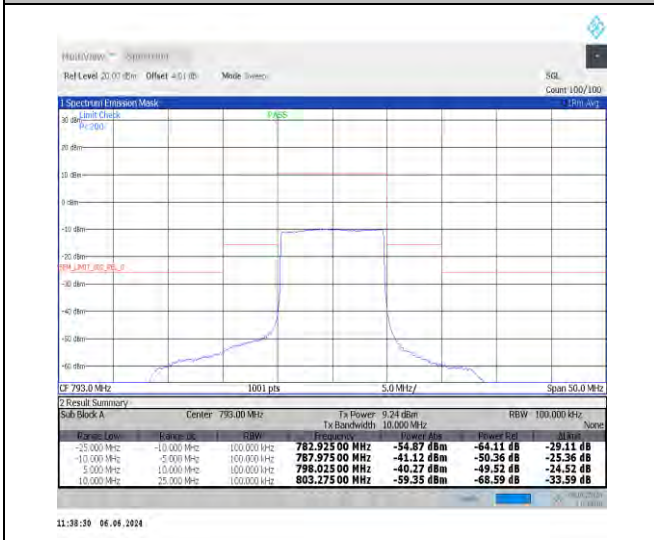
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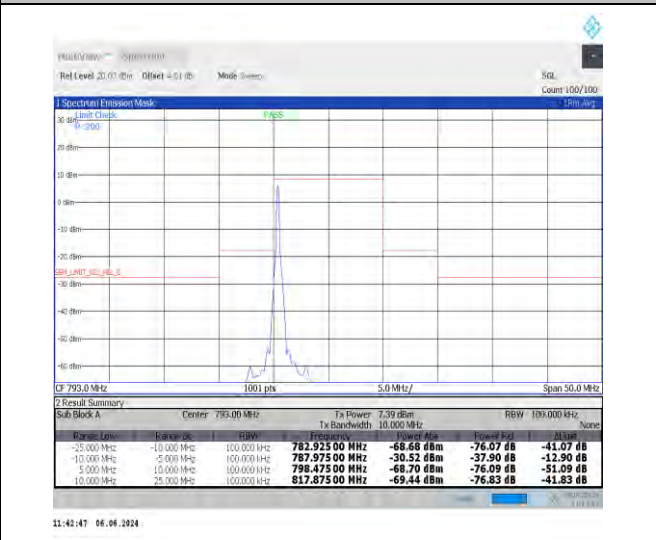
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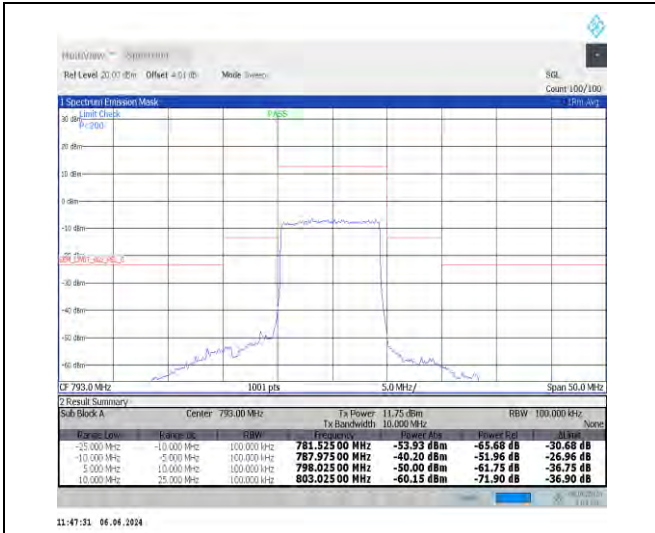


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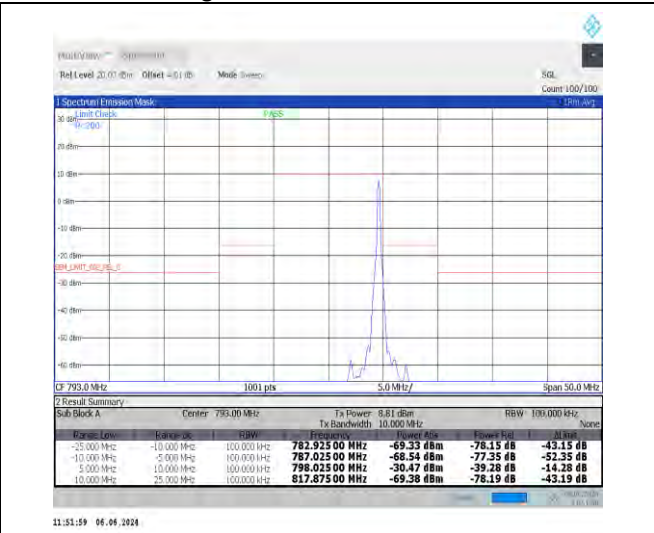
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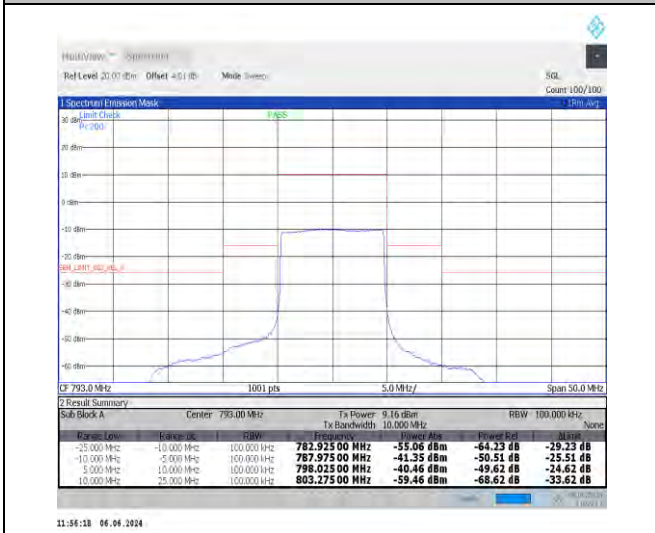




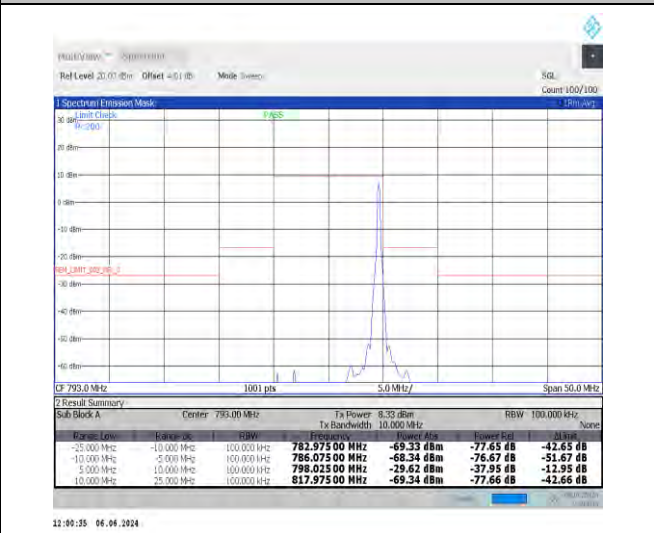
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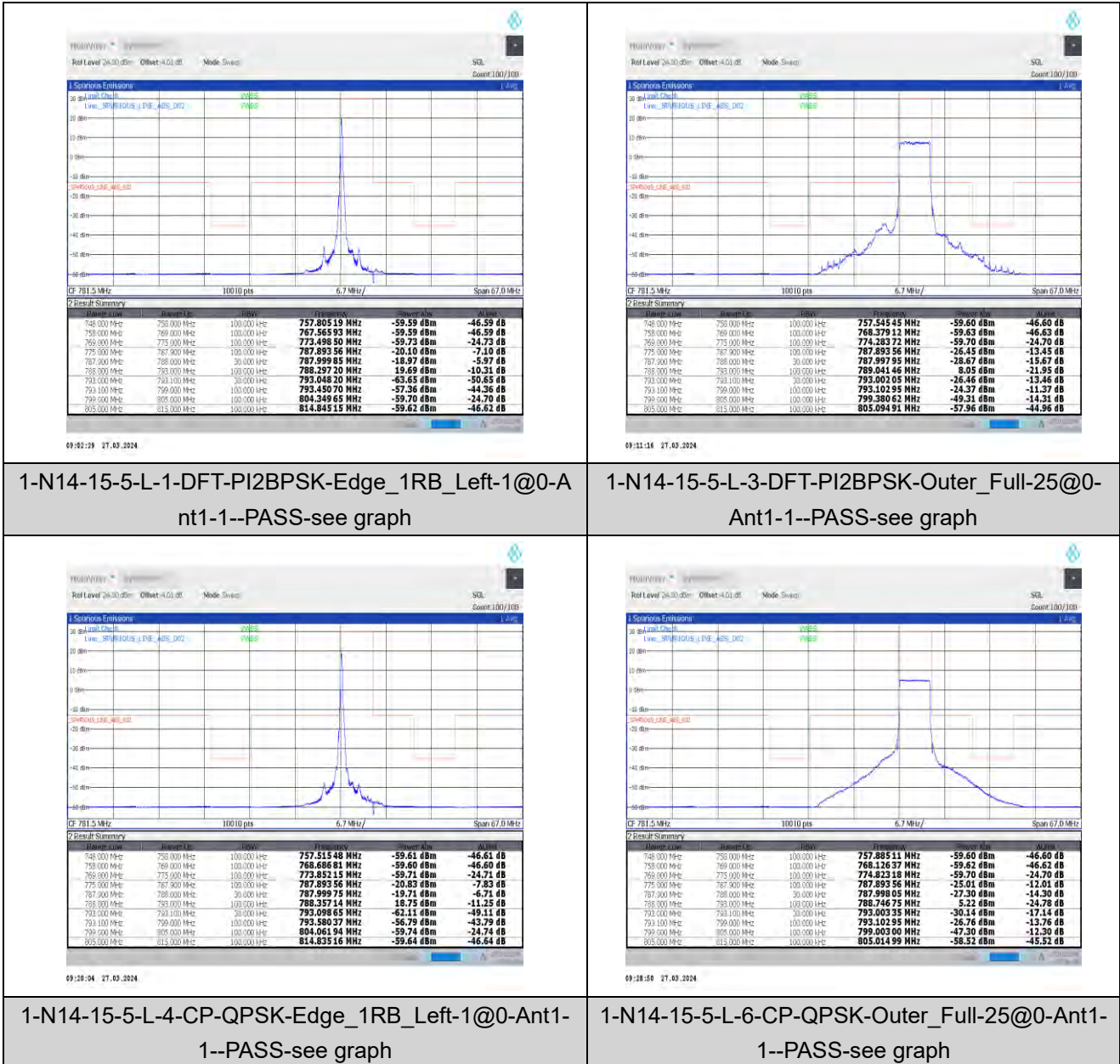
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### Band Edge for SA

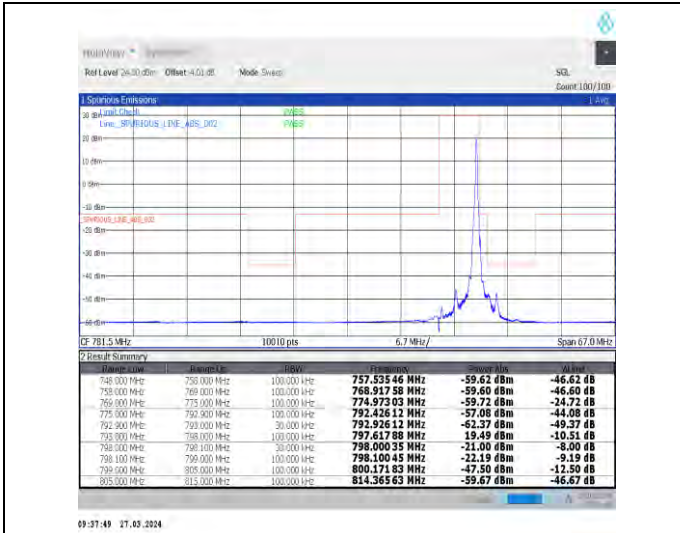
### Test Graphs



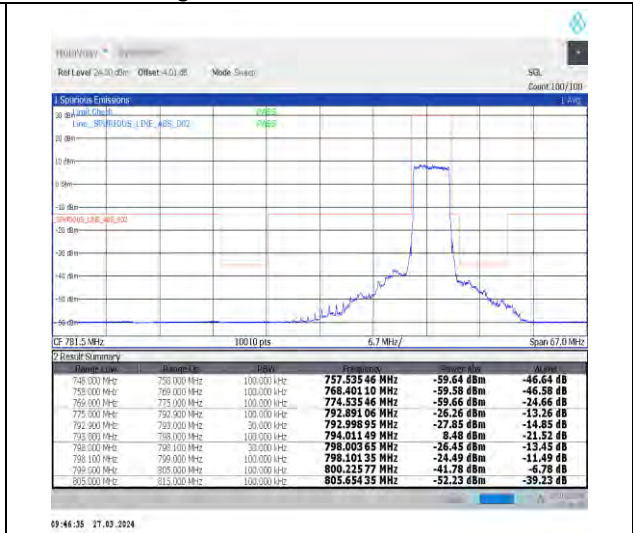
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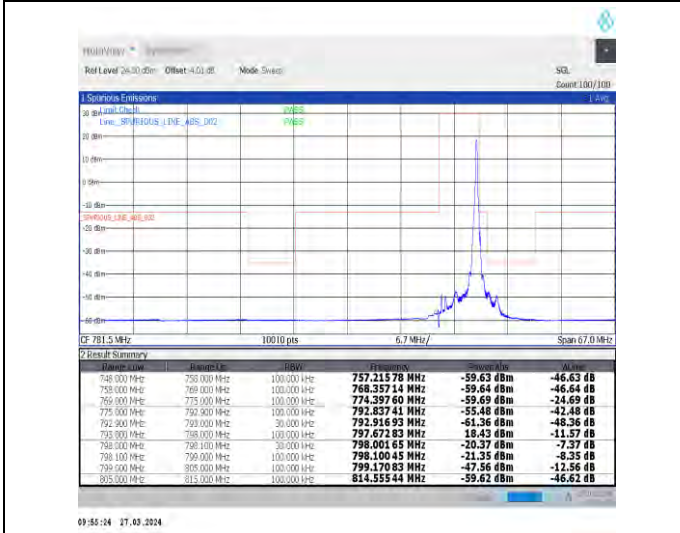
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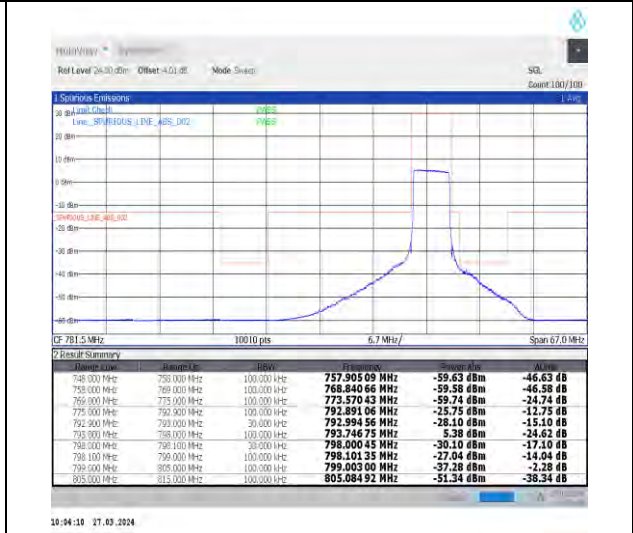
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4-Ant1-1--PASS-see graph



1-N14-15-5-H-3-DFT-PI2BPSK-Outer\_Full-25@0-Ant1-1--PASS-see graph



1-N14-15-5-H-5-CP-QPSK-Edge\_1RB\_Right-1@24-Ant1-1--PASS-see graph



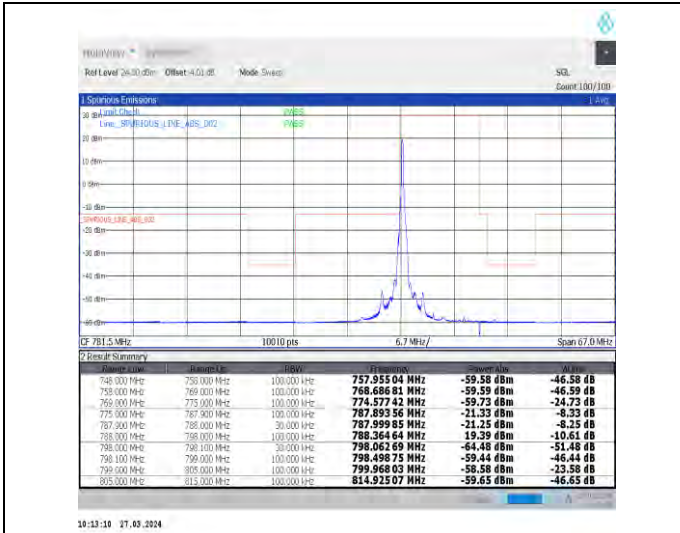
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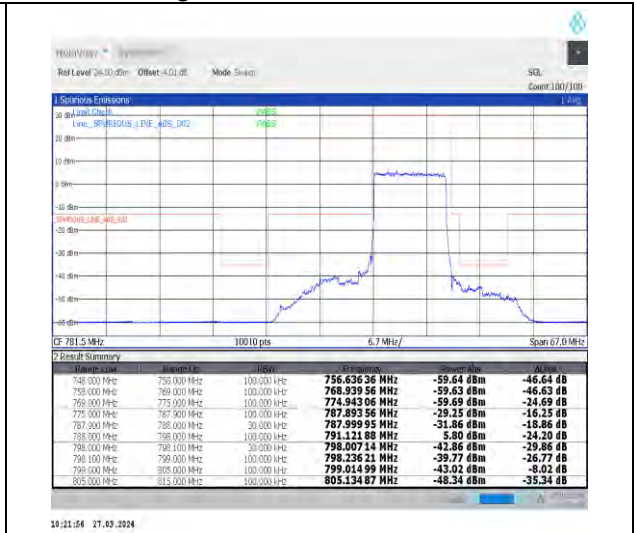
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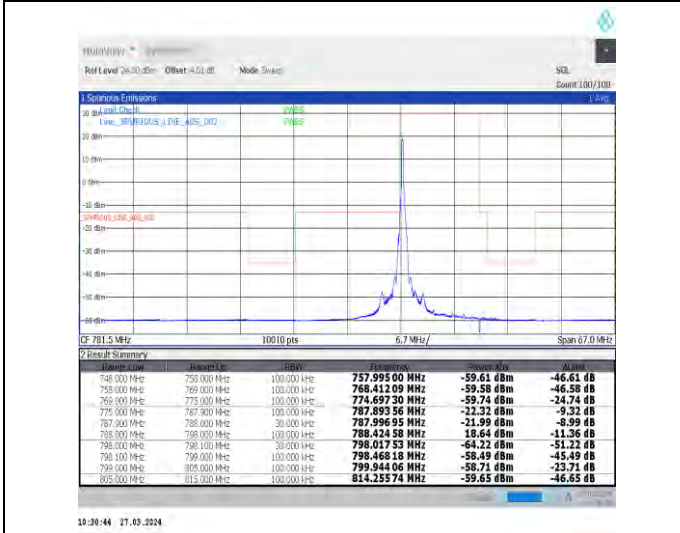
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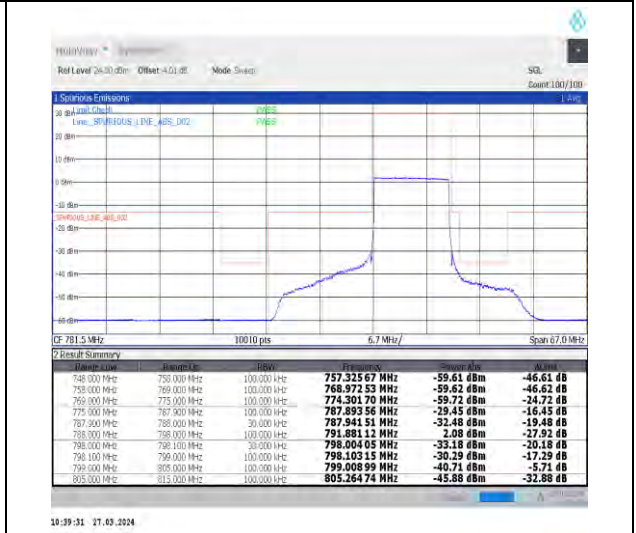
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1-N14-15-10-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph



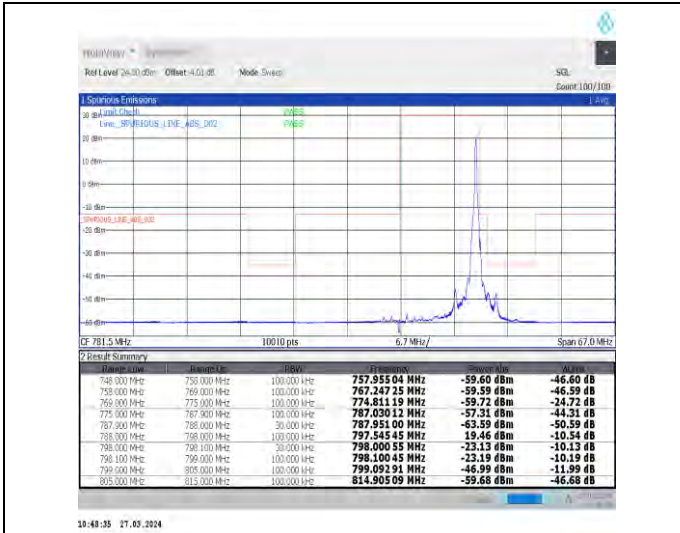
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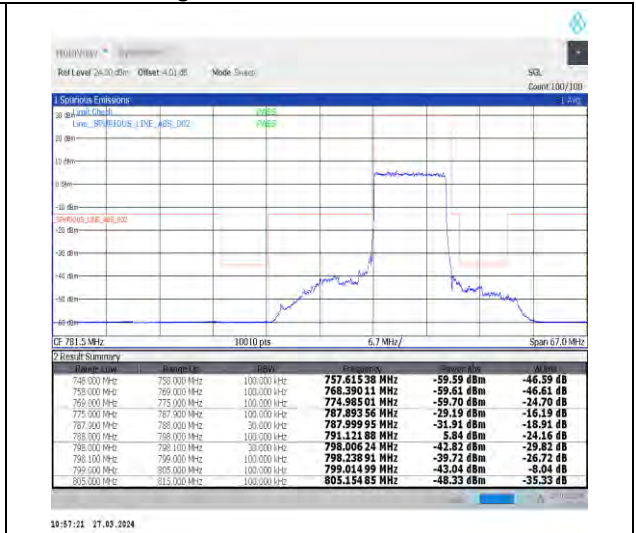
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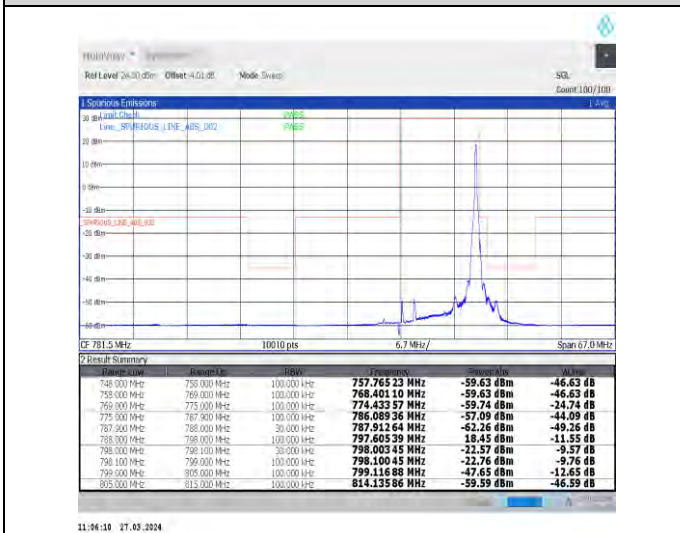
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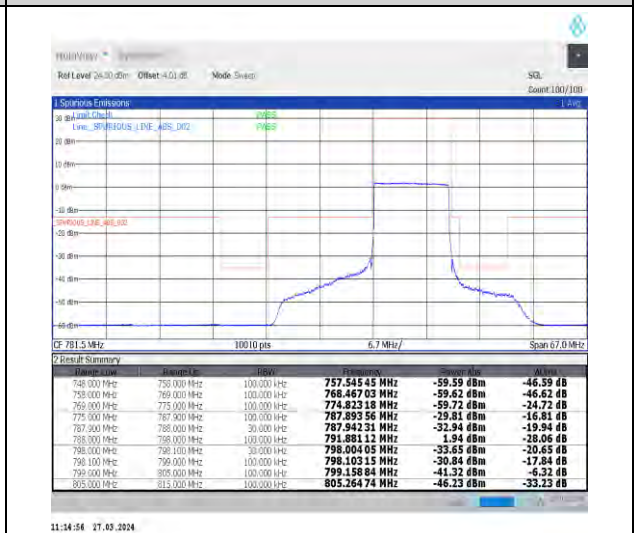
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1-N14-15-10-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant1-1--PASS-see graph



1-N14-15-10-H-5-CP-QPSK-Edge\_1RB\_Right-1@51-Ant1-1--PASS-see graph



1-N14-15-10-H-6-CP-QPSK-Outer\_Full-52@0-Ant1-1--PASS-see graph



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## Conducted Spurious Emission for SA

### Test Graphs

<p>Ref Level: -10.00 dBm Offset: 1.26 dB RBW: 1 Hz          # Att: 10 dB # SWI: 30 ms # VBW: 3 Hz Mode: Auto Sweep          Count: 100/100          SQL          1 Frequency Sweep          Limit Check: PASS          Line Limit: PASS          M[1]: 77.13 dBm          59.055 MHz          9.0 MHz 1001 pts 14.3 MHz/ 150.0 MHz          08:41:40 27.03.2024</p>	<p>Ref Level: -10.00 dBm Offset: 1.50 dB RBW: 10 Hz          # Att: 10 dB # SWI: 30 ms # VBW: 30 Hz Mode: Auto Sweep          Count: 100/100          SQL          1 Frequency Sweep          Limit Check: PASS          Line Limit: PASS          M[1]: 78.78 dBm          150.0 MHz          150.0 MHz 1001 pts 2.99 MHz/ 30.0 MHz          08:41:50 27.03.2024</p>
<p>1-N14-15-10-L-1-DFT-PI2BPSK-Inner_1RB_Left-1          @1-0.009-0.15-Ant1-0.06--77.13--33-PASS</p>	<p>1-N14-15-10-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@          1-0.15-30-Ant1-0.15--78.78--23-PASS</p>
<p>Ref Level: 25.00 dBm Offset: 4.49 dB RBW: 100 kHz          # Att: 30 dB # SWI: 30 ms # VBW: 300 kHz Mode: Auto Sweep          Count: 100/100          SQL          1 Frequency Sweep          Limit Check: PASS          Line Limit: PASS          M[1]: 59.18 dBm          97.0 MHz          30.0 MHz 2001 pts 97.0 MHz/ 1.0 GHz          08:42:00 27.03.2024</p>	<p>Ref Level: 25.00 dBm Offset: 7.36 dB RBW: 1 Hz          # Att: 30 dB # SWI: 30 ms # VBW: 3 Hz Mode: Auto Sweep          Count: 100/100          SQL          1 Frequency Sweep          Limit Check: PASS          Line Limit: PASS          M[1]: 51.69 dBm          1431.967 GHz          1.0 GHz 4001 pts 55.9 MHz/ 1.559 GHz          08:42:10 27.03.2024</p>
<p>1-N14-15-10-L-1-DFT-PI2BPSK-Inner_1RB_Left-1          @1-30-1000-Ant1-697.85--59.18--13-PASS</p>	<p>1-N14-15-10-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@          1-1000-1559-Ant1-1431.97--51.69--13-PASS</p>



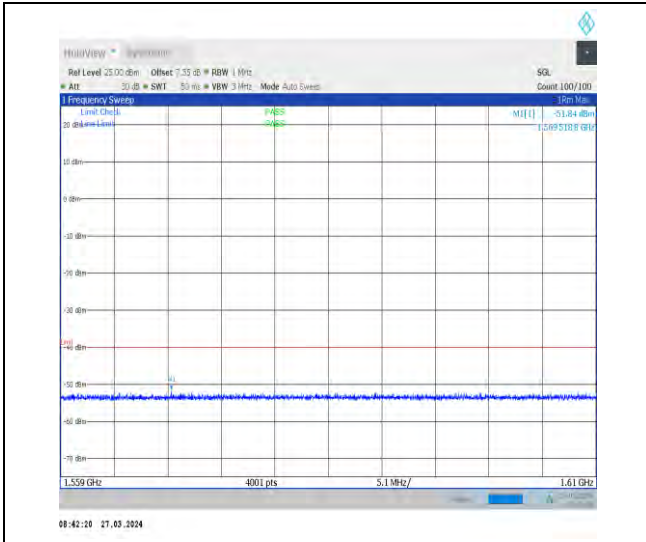
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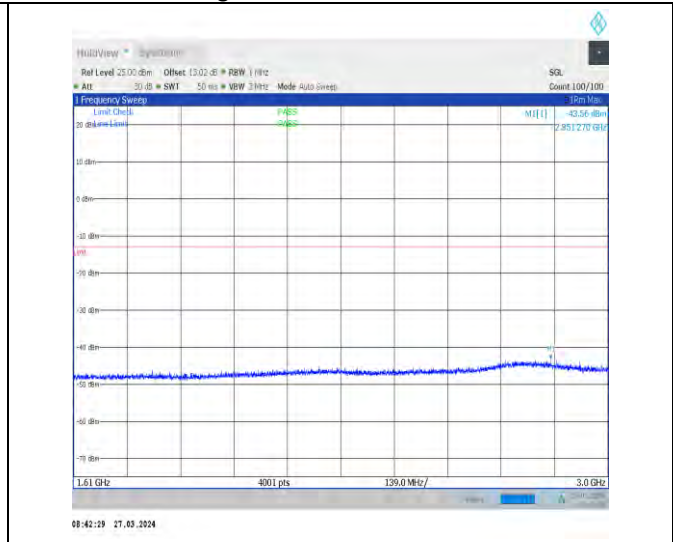
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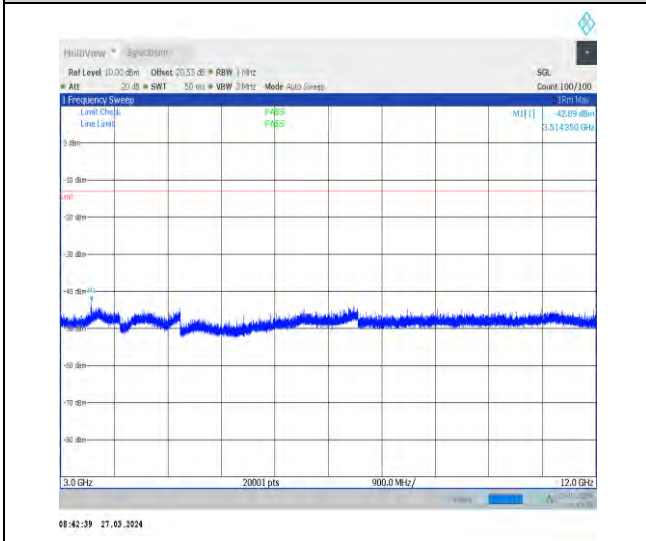
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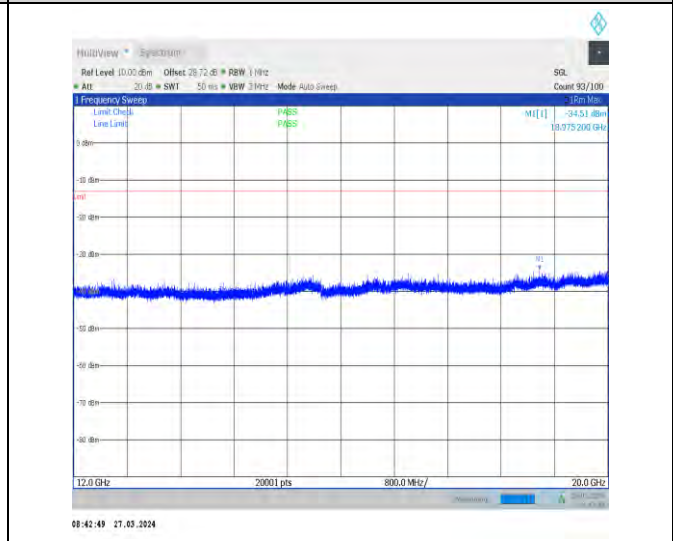
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1-N14-15-10-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@ 1-1610-3000-Ant1-2851.27--43.56--13-PASS



1-N14-15-10-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @1-3000-12000-Ant1-3514.35--42.89--13-PASS



1-N14-15-10-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@ 1-12000-20000-Ant1-18975.20--34.51--13-PASS



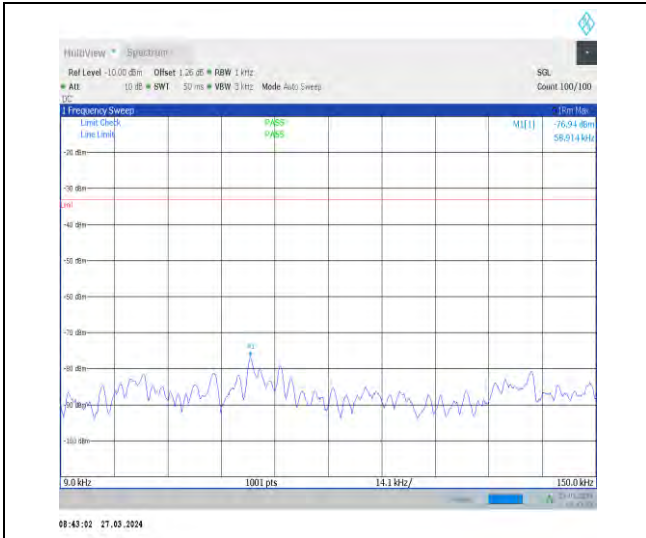
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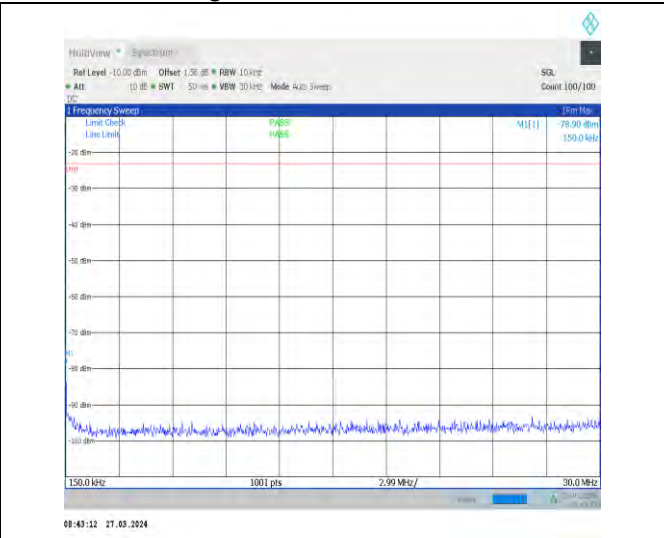
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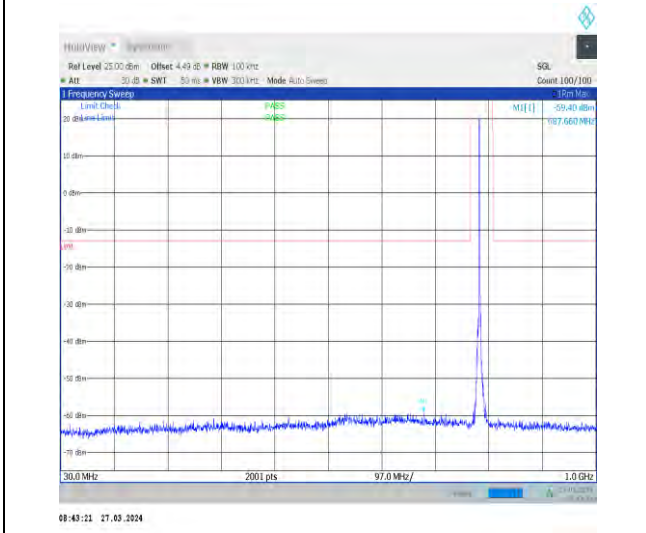
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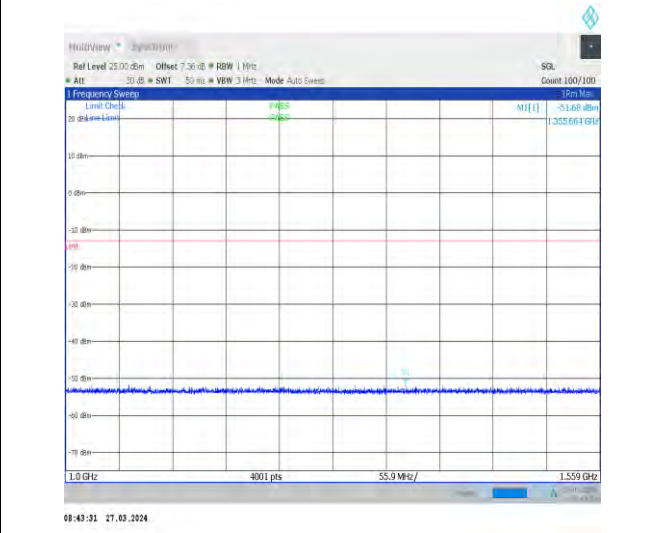
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1-N14-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-0.15-30-Ant1-0.15--78.90--23-PASS



1-N14-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-30-1000-Ant1-687.66--59.40--13-PASS



1-N14-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @ 1-1000-1559-Ant1-1355.66--51.68--13-PASS

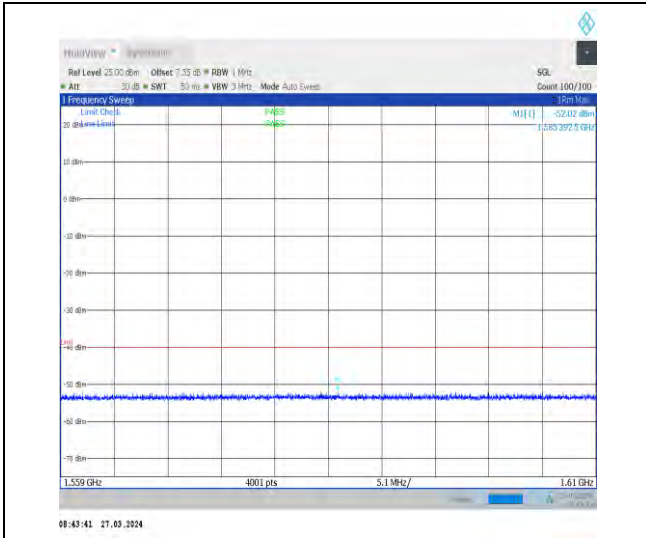


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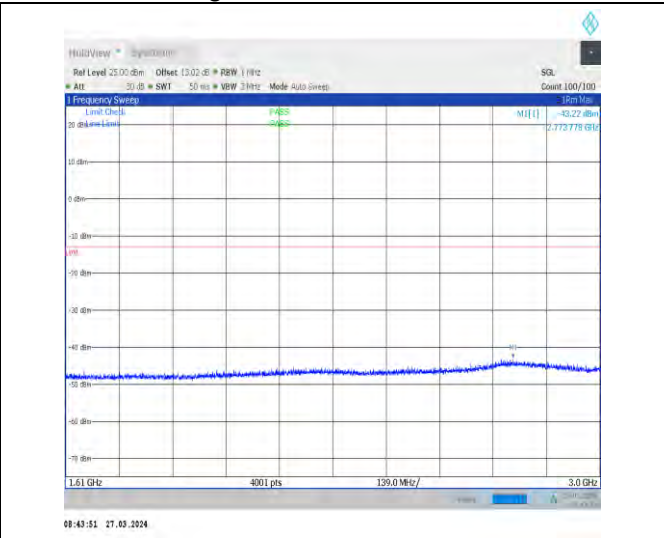
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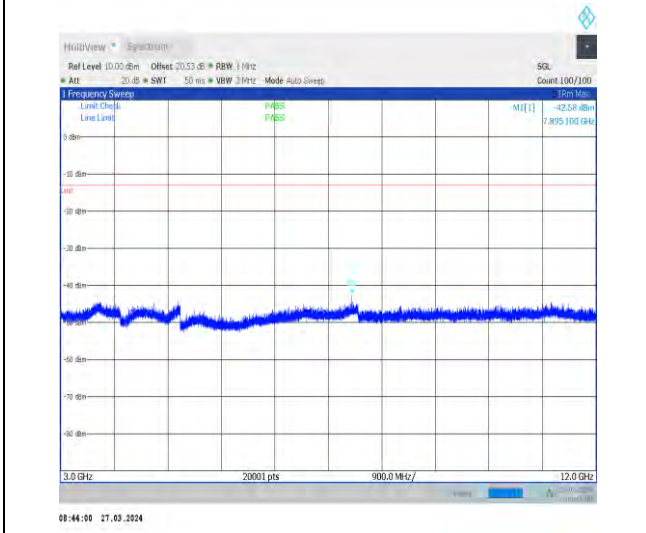




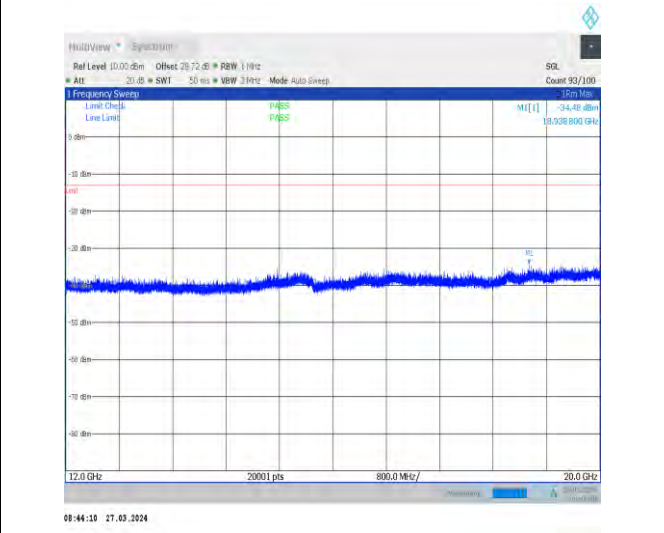
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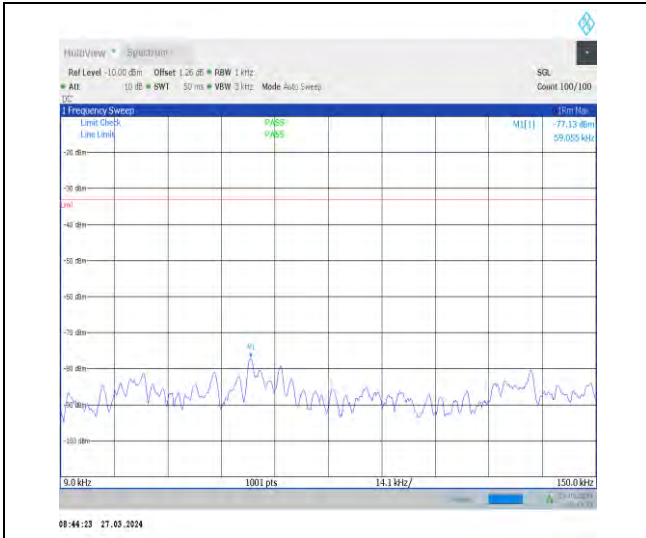
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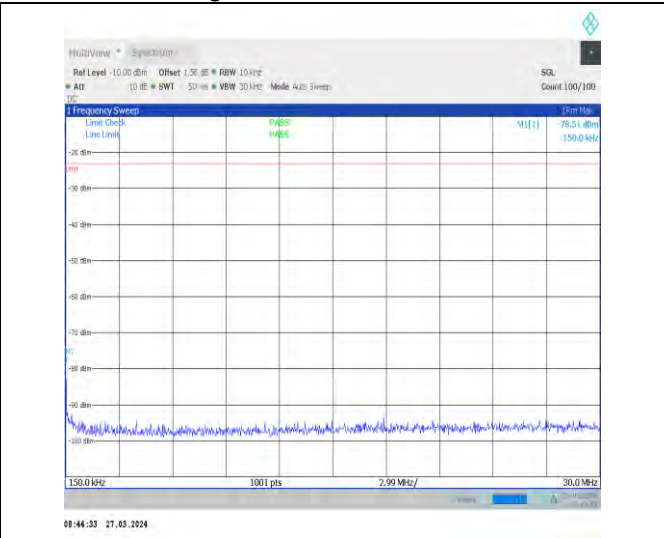
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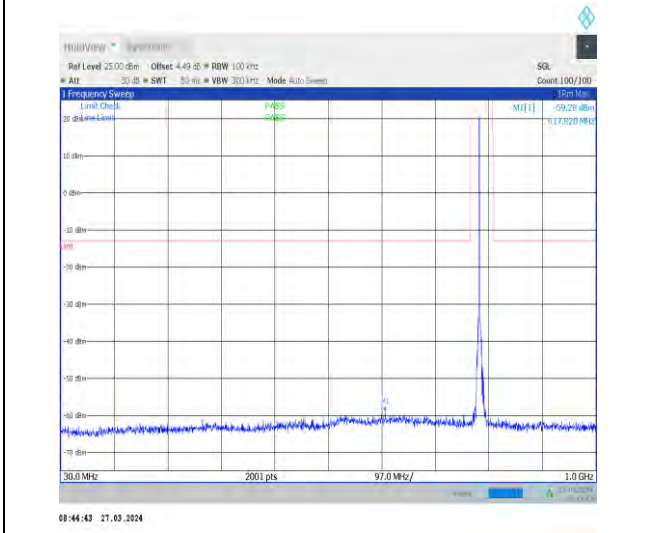
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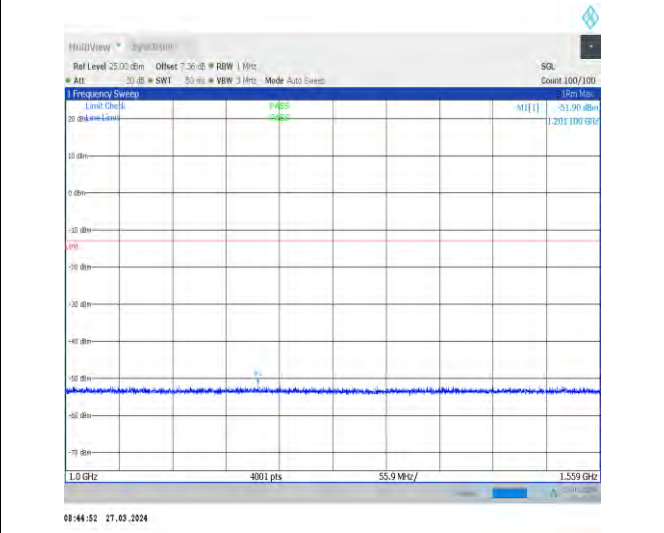
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1-N14-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @1-30-1000-Ant1-617.82--59.28--13-PASS



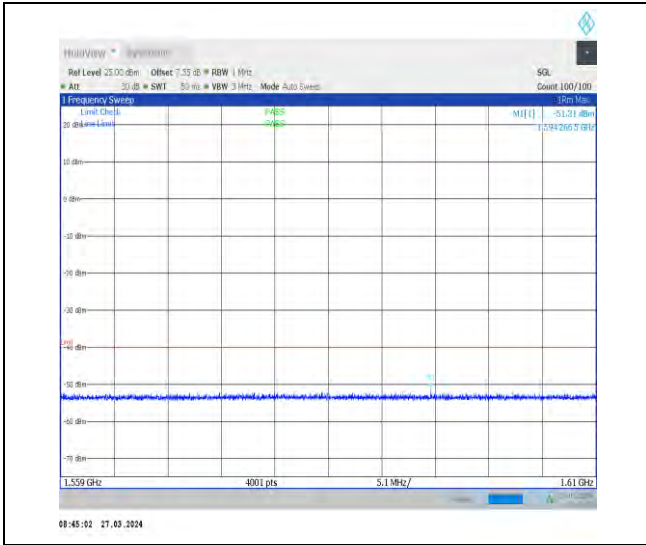
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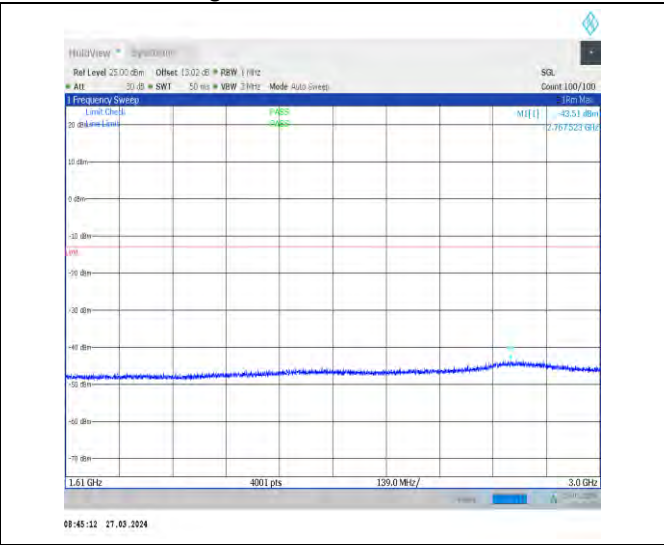
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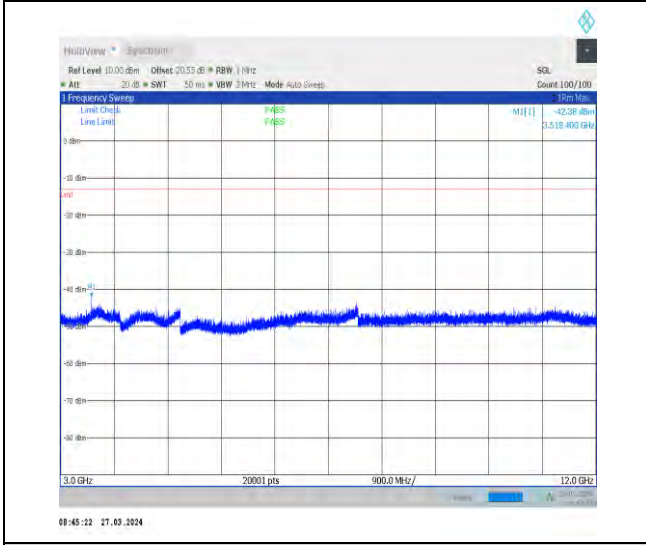
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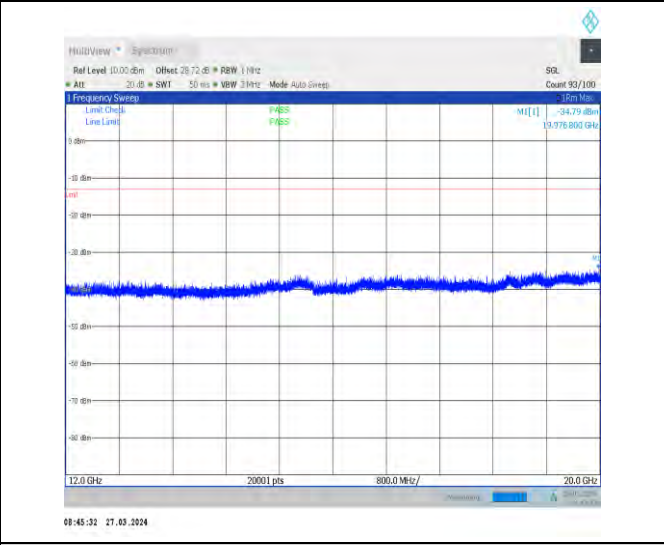
1-N14-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @1-1559-1610-Ant1-1594.27--51.31--40-PASS



1-N14-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@ 1-1610-3000-Ant1-2767.52--43.51--13-PASS



1-N14-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @1-3000-12000-Ant1-3518.40--42.38--13-PASS



1-N14-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@ 1-12000-20000-Ant1-19976.80--34.79--13-PASS



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## Field Strength of Spurious Radiation

Test Band = SA\_n14

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1599.5	47.43	-46.96	25.09	-69.70	-40.00	29.70	Horizontal
2	1812.5	49.13	-46.60	25.45	-67.28	-13.00	54.28	Horizontal
3	2374.5	47.62	-45.95	27.50	-66.09	-13.00	53.09	Horizontal
4	3259.5	46.35	-44.53	28.58	-64.86	-13.00	51.86	Horizontal
5	4300	46.46	-42.63	29.50	-61.93	-13.00	48.93	Horizontal
6	5988.5	45.47	-40.55	32.98	-57.36	-13.00	44.36	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1576.5	48.32	-46.89	24.68	-69.15	-40.00	29.15	Vertical
2	1812.5	52.48	-46.60	25.45	-63.93	-13.00	50.93	Vertical
3	2365	49.16	-45.98	27.54	-64.54	-13.00	51.54	Vertical
4	3059.5	47.71	-45.32	28.82	-64.05	-13.00	51.05	Vertical
5	4760.5	46.44	-42.90	30.56	-61.16	-13.00	48.16	Vertical
6	7818	42.97	-37.41	36.67	-53.03	-13.00	40.03	Vertical



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Test Band = SA\_n14  
 Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1590	47.71	-46.93	24.92	-69.56	-40.00	29.56	Horizontal
2	1812.5	49.07	-46.60	25.45	-67.34	-13.00	54.34	Horizontal
3	2694	46.93	-45.31	27.99	-65.65	-13.00	52.65	Horizontal
4	4421	46.40	-43.30	30.10	-62.06	-13.00	49.06	Horizontal
5	6114	44.99	-40.50	33.37	-57.40	-13.00	44.40	Horizontal
6	8433.5	43.24	-36.31	36.43	-51.90	-13.00	38.90	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1582	47.94	-46.91	24.78	-69.45	-40.00	29.45	Vertical
2	1812.5	52.65	-46.60	25.45	-63.76	-13.00	50.76	Vertical
3	2553	46.99	-45.46	27.81	-65.92	-13.00	52.92	Vertical
4	4302	46.29	-42.66	29.52	-62.11	-13.00	49.11	Vertical
5	7042	43.89	-38.90	36.10	-54.17	-13.00	41.17	Vertical
6	9117	42.30	-34.95	37.03	-50.88	-13.00	37.88	Vertical



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Test Band = SA\_n14  
Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1581.5	48.09	-46.91	24.77	-69.31	-40.00	29.31	Horizontal
2	1812.5	48.95	-46.60	25.45	-67.46	-13.00	54.46	Horizontal
3	2646.5	47.04	-45.49	27.90	-65.81	-13.00	52.81	Horizontal
4	3473.5	46.53	-44.69	28.99	-64.43	-13.00	51.43	Horizontal
5	4626.5	46.19	-42.97	30.15	-61.89	-13.00	48.89	Horizontal
6	9138.5	42.62	-35.13	37.08	-50.69	-13.00	37.69	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1598.5	47.40	-46.96	25.07	-69.75	-40.00	29.75	Vertical
2	1812.5	52.72	-46.60	25.45	-63.69	-13.00	50.69	Vertical
3	2507	47.81	-45.74	27.80	-65.39	-13.00	52.39	Vertical
4	3956	46.79	-43.82	29.89	-62.40	-13.00	49.40	Vertical
5	5769	45.69	-40.99	32.46	-58.10	-13.00	45.10	Vertical
6	8219	43.44	-36.55	36.38	-51.99	-13.00	38.99	Vertical



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Test Band = SA\_n14-10M

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1607.5	47.46	-46.95	25.16	-69.59	-40.00	29.59	Horizontal
2	2190	47.40	-46.33	26.82	-67.37	-13.00	54.37	Horizontal
3	3153.5	48.63	-44.96	28.68	-62.91	-13.00	49.91	Horizontal
4	4806	46.31	-42.82	30.78	-60.99	-13.00	47.99	Horizontal
5	6629.5	44.72	-39.36	34.86	-55.04	-13.00	42.04	Horizontal
6	9114.5	42.33	-34.93	37.03	-50.83	-13.00	37.83	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1577	48.45	-46.90	24.69	-69.02	-40.00	29.02	Vertical
2	2365.5	48.33	-45.98	27.54	-65.37	-13.00	52.37	Vertical
3	3527.5	46.97	-44.77	29.05	-64.01	-13.00	51.01	Vertical
4	4799	46.28	-42.82	30.79	-61.01	-13.00	48.01	Vertical
5	6362.5	44.83	-40.48	33.85	-57.06	-13.00	44.06	Vertical
6	9130.5	42.45	-35.07	37.06	-50.82	-13.00	37.82	Vertical



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Test Band = NSA\_B30+n14

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	67.13	-42.90	30.13	-40.90	-13.00	27.90	Horizontal
2	7199	43.87	-38.20	36.60	-52.99	-13.00	39.99	Horizontal
3	9231.5	50.07	-35.36	37.50	-43.05	-13.00	30.05	Horizontal
4	11539	44.96	-34.57	40.24	-44.63	-13.00	31.63	Horizontal
5	13376	44.25	-33.56	39.67	-44.90	-13.00	31.90	Horizontal
6	18000	40.85	-39.77	48.20	-45.98	-13.00	32.98	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	71.78	-42.90	30.13	-36.25	-13.00	23.25	Vertical
2	6923.5	51.85	-38.99	35.35	-47.05	-13.00	34.05	Vertical
3	9231.5	52.88	-35.36	37.50	-40.24	-13.00	27.24	Vertical
4	11539	45.41	-34.57	40.24	-44.18	-13.00	31.18	Vertical
5	13847	45.17	-34.18	40.69	-43.58	-13.00	30.58	Vertical
6	17067.5	41.96	-34.35	41.84	-45.81	-13.00	32.81	Vertical



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Test Band = NSA\_B30+n14

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	62.60	-42.90	30.13	-45.43	-13.00	32.43	Horizontal
2	6588	44.95	-39.66	34.73	-55.24	-13.00	42.24	Horizontal
3	9231.5	52.97	-35.36	37.50	-40.15	-13.00	27.15	Horizontal
4	11539	44.48	-34.57	40.24	-45.11	-13.00	32.11	Horizontal
5	15277.5	41.11	-30.66	39.86	-44.95	-13.00	31.95	Horizontal
6	17982	41.26	-39.76	47.88	-45.88	-13.00	32.88	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	70.65	-42.90	30.13	-37.38	-13.00	24.38	Vertical
2	6924	51.10	-38.99	35.35	-47.80	-13.00	34.80	Vertical
3	9231.5	55.66	-35.36	37.50	-37.46	-13.00	24.46	Vertical
4	11539	48.12	-34.57	40.24	-41.47	-13.00	28.47	Vertical
5	14807.5	41.21	-32.54	41.56	-45.03	-13.00	32.03	Vertical
6	17197.5	42.67	-35.53	42.49	-45.63	-13.00	32.63	Vertical



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Report No.: SUCR240100001702

Rev.: 01

Page: 34 of 37

Test Band = NSA\_B30+n14

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1612	35.35	-17.28	25.20	-51.99	-13.00	38.99	Horizontal
2	4615.5	67.61	-42.90	30.13	-40.42	-13.00	27.42	Horizontal
3	6923.5	47.08	-38.99	35.35	-51.82	-13.00	38.82	Horizontal
4	9231.5	52.39	-35.36	37.50	-40.73	-13.00	27.73	Horizontal
5	11539	44.12	-34.57	40.24	-45.47	-13.00	32.47	Horizontal
6	14799.5	41.09	-32.51	41.60	-45.08	-13.00	32.08	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1627.5	35.42	-17.11	25.32	-51.63	-13.00	38.63	Vertical
2	3366.5	48.21	-44.52	28.60	-62.97	-13.00	49.97	Vertical
3	4616	69.21	-42.90	30.13	-38.82	-13.00	25.82	Vertical
4	6923.5	52.99	-38.99	35.35	-45.91	-13.00	32.91	Vertical
5	9231	52.21	-35.36	37.50	-40.91	-13.00	27.91	Vertical
6	11539.5	45.78	-34.56	40.24	-43.80	-13.00	30.80	Vertical



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**Test Band = NSA\_B30+n14-10M**  
**Test Channel = MCH**

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	66.34	-42.90	30.13	-41.69	-13.00	28.69	Horizontal
2	5912.5	45.04	-40.86	32.83	-58.25	-13.00	45.25	Horizontal
3	6923.5	46.23	-38.99	35.35	-52.67	-13.00	39.67	Horizontal
4	9231.5	54.82	-35.36	37.50	-38.30	-13.00	25.30	Horizontal
5	11539.5	43.38	-34.56	40.24	-46.20	-13.00	33.20	Horizontal
6	14609.5	41.85	-33.98	41.54	-45.85	-13.00	32.85	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.5	69.78	-42.90	30.13	-38.25	-13.00	25.25	Vertical
2	6923.5	52.63	-38.99	35.35	-46.27	-13.00	33.27	Vertical
3	9231.5	53.89	-35.36	37.50	-39.23	-13.00	26.23	Vertical
4	11539	43.36	-34.57	40.24	-46.23	-13.00	33.23	Vertical
5	13847.5	44.50	-34.19	40.69	-44.26	-13.00	31.26	Vertical
6	16351	40.56	-30.55	38.65	-46.60	-13.00	33.60	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
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	3.700000	0.004666	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	4.000000	0.005044	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	3.300000	0.004161	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VH	NT	4.200000	0.005296	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VN	NT	2.600000	0.003279	PASS
N14	15	10	CP-QPSK	M	Outer_Full	VL	NT	2.800000	0.003531	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	1.500000	0.001892	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	3.700000	0.004666	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	2.400000	0.003026	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	3.300000	0.004161	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	3.200000	0.004035	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	3.300000	0.004161	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	3.400000	0.004288	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	2.600000	0.003279	PASS
N14	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	4.900000	0.006179	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	-30	3.100000	0.003909	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	-20	3.600000	0.004540	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	-10	3.300000	0.004161	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	0	4.300000	0.005422	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	10	3.900000	0.004918	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	20	3.000000	0.003783	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	30	0.700000	0.000883	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	40	3.100000	0.003909	PASS
N14	15	10	CP-QPSK	M	Outer_Full	NV	50	2.000000	0.002522	PASS

---End of Attachment---



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