



Report No.: SEWA2204000008RG02

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Appendix B.35

NR Band 26(814-824)



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Transmitter Conducted Power Output for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	LIMIT	Verdict
N26-814-824	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	23.43	50	PASS
N26-814-824	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	23.4	50	PASS
N26-814-824	15	5	DFT-PI2BPSK	L	Outer_Full	23.43	50	PASS
N26-814-824	15	5	DFT-QPSK	L	Inner_1RB_Left	23.51	50	PASS
N26-814-824	15	5	DFT-QPSK	L	Inner_1RB_Right	23.48	50	PASS
N26-814-824	15	5	DFT-QPSK	L	Outer_Full	23.44	50	PASS
N26-814-824	15	5	DFT-16QAM	L	Inner_1RB_Left	23.34	50	PASS
N26-814-824	15	5	DFT-16QAM	L	Inner_1RB_Right	23.45	50	PASS
N26-814-824	15	5	DFT-16QAM	L	Outer_Full	22.51	50	PASS
N26-814-824	15	5	DFT-64QAM	L	Inner_1RB_Left	21.74	50	PASS
N26-814-824	15	5	DFT-64QAM	L	Inner_1RB_Right	21.84	50	PASS
N26-814-824	15	5	DFT-64QAM	L	Outer_Full	22.06	50	PASS
N26-814-824	15	5	DFT-256QAM	L	Inner_1RB_Left	19.75	50	PASS
N26-814-824	15	5	DFT-256QAM	L	Inner_1RB_Right	19.75	50	PASS
N26-814-824	15	5	DFT-256QAM	L	Outer_Full	19.84	50	PASS
N26-814-824	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	23.22	50	PASS
N26-814-824	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	23.34	50	PASS
N26-814-824	15	5	DFT-PI2BPSK	M	Outer_Full	23.49	50	PASS
N26-814-824	15	5	DFT-QPSK	M	Inner_1RB_Left	23.46	50	PASS
N26-814-824	15	5	DFT-QPSK	M	Inner_1RB_Right	23.4	50	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	23.44	50	PASS
N26-814-824	15	5	DFT-16QAM	M	Inner_1RB_Left	23.77	50	PASS
N26-814-824	15	5	DFT-16QAM	M	Inner_1RB_Right	23.82	50	PASS
N26-814-824	15	5	DFT-16QAM	M	Outer_Full	22.47	50	PASS
N26-814-824	15	5	DFT-64QAM	M	Inner_1RB_Left	21.73	50	PASS
N26-814-824	15	5	DFT-64QAM	M	Inner_1RB_Right	21.52	50	FAIL
N26-814-824	15	5	DFT-64QAM	M	Outer_Full	21.99	50	PASS
N26-814-824	15	5	DFT-256QAM	M	Inner_1RB_Left	19.65	50	PASS
N26-814-824	15	5	DFT-256QAM	M	Inner_1RB_Right	19.69	50	PASS
N26-814-824	15	5	DFT-256QAM	M	Outer_Full	19.87	50	PASS
N26-814-824	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	23.4	50	PASS



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N26-814-824	15	5	DFT-PI2BPSK	H	Inner_1RB_Right	23.27	50	PASS
N26-814-824	15	5	DFT-PI2BPSK	H	Outer_Full	23.41	50	PASS
N26-814-824	15	5	DFT-QPSK	H	Inner_1RB_Left	23.41	50	PASS
N26-814-824	15	5	DFT-QPSK	H	Inner_1RB_Right	23.31	50	PASS
N26-814-824	15	5	DFT-QPSK	H	Outer_Full	23.42	50	PASS
N26-814-824	15	5	DFT-16QAM	H	Inner_1RB_Left	23.84	50	PASS
N26-814-824	15	5	DFT-16QAM	H	Inner_1RB_Right	23.72	50	PASS
N26-814-824	15	5	DFT-16QAM	H	Outer_Full	22.4	50	PASS
N26-814-824	15	5	DFT-64QAM	H	Inner_1RB_Left	21.81	50	PASS
N26-814-824	15	5	DFT-64QAM	H	Inner_1RB_Right	21.72	50	PASS
N26-814-824	15	5	DFT-64QAM	H	Outer_Full	22.04	50	PASS
N26-814-824	15	5	DFT-256QAM	H	Inner_1RB_Left	19.71	50	PASS
N26-814-824	15	5	DFT-256QAM	H	Inner_1RB_Right	19.59	50	PASS
N26-814-824	15	5	DFT-256QAM	H	Outer_Full	19.83	50	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	23.48	50	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	23.33	50	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	23.5	50	PASS
N26-814-824	15	10	DFT-QPSK	M	Inner_1RB_Left	23.4	50	PASS
N26-814-824	15	10	DFT-QPSK	M	Inner_1RB_Right	23.29	50	PASS
N26-814-824	15	10	DFT-QPSK	M	Outer_Full	23.44	50	PASS
N26-814-824	15	10	DFT-16QAM	M	Inner_1RB_Left	23.88	50	PASS
N26-814-824	15	10	DFT-16QAM	M	Inner_1RB_Right	23.77	50	PASS
N26-814-824	15	10	DFT-16QAM	M	Outer_Full	22.42	50	PASS
N26-814-824	15	10	DFT-64QAM	M	Inner_1RB_Left	21.81	50	PASS
N26-814-824	15	10	DFT-64QAM	M	Inner_1RB_Right	21.64	50	PASS
N26-814-824	15	10	DFT-64QAM	M	Outer_Full	22.02	50	PASS
N26-814-824	15	10	DFT-256QAM	M	Inner_1RB_Left	19.66	50	PASS
N26-814-824	15	10	DFT-256QAM	M	Inner_1RB_Right	19.6	50	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	19.9	50	PASS



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Peak-to-Average Ratio for SA

Peak-to-Average Ratio(PAPR)

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	100%	0.00	8.28	≤13	PASS
N26-814-824	15	10	CP-256QAM	M	Outer_Full	100%	0.00	9.46	≤13	PASS



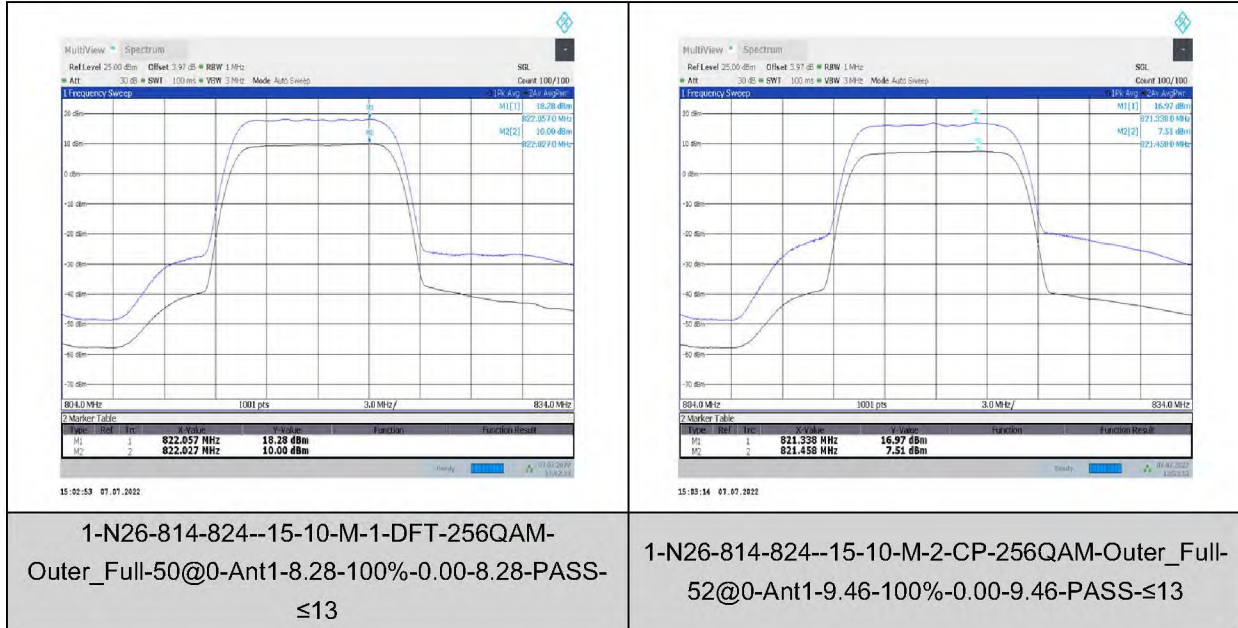
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Test Graphs



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Modulation characteristics for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Verdict
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	see graph	PASS
N26-814-824	15	10	DFT-QPSK	M	Outer_Full	see graph	PASS
N26-814-824	15	10	DFT-16QAM	M	Outer_Full	see graph	PASS
N26-814-824	15	10	DFT-64QAM	M	Outer_Full	see graph	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	see graph	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	see graph	PASS
N26-814-824	15	10	CP-16QAM	M	Outer_Full	see graph	PASS
N26-814-824	15	10	CP-64QAM	M	Outer_Full	see graph	PASS
N26-814-824	15	10	CP-256QAM	M	Outer_Full	see graph	PASS



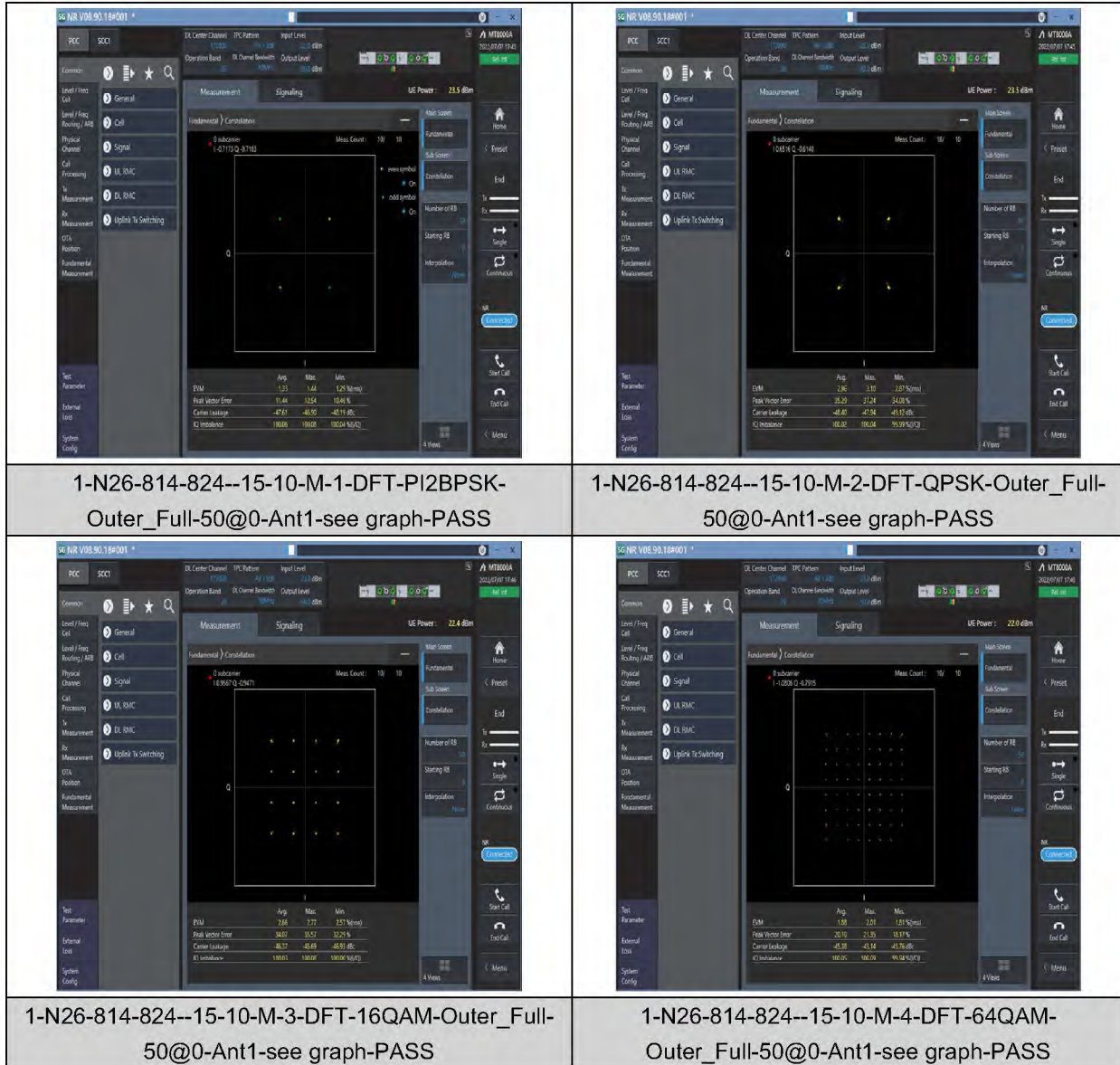
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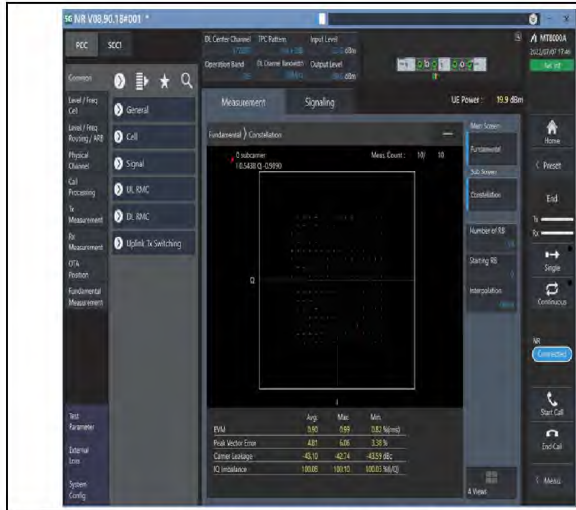
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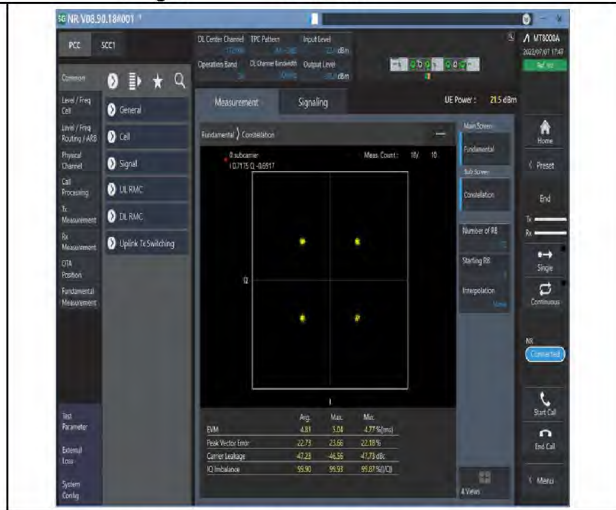
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Test Graphs

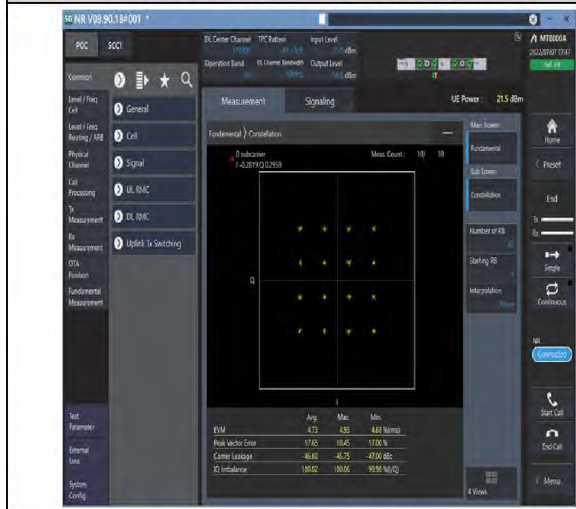




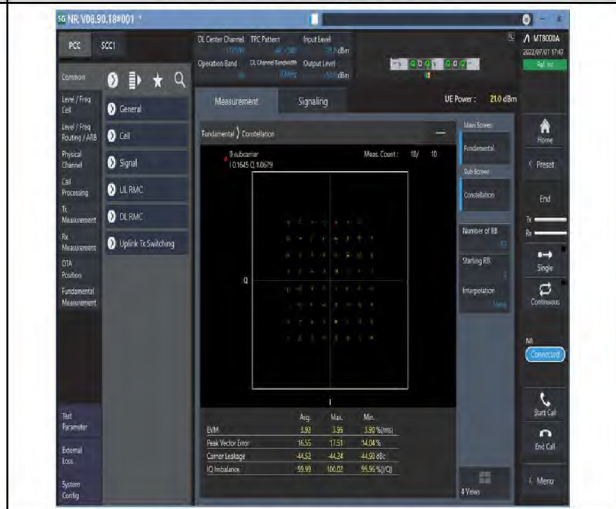
1-N26-814-824--15-10-M-5-DFT-256QAM-Outer_Full-50@0-Ant1-see graph-PASS



1-N26-814-824--15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant1-see graph-PASS



1-N26-814-824--15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant1-see graph-PASS



1-N26-814-824--15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant1-see graph-PASS



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<p>1-N26-814-824--15-10-M-9-CP-256QAM-Outer_Full-52@0-Ant1-see graph-PASS</p>	



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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
N26-814-824	15	5	DFT-QPSK	L	Outer_Full	4.501	5.110	PASS
N26-814-824	15	5	DFT-PI2BPSK	L	Outer_Full	4.466	4.940	PASS
N26-814-824	15	5	DFT-16QAM	L	Outer_Full	4.468	4.980	PASS
N26-814-824	15	5	DFT-64QAM	L	Outer_Full	4.469	5.020	PASS
N26-814-824	15	5	DFT-256QAM	L	Outer_Full	4.475	5.090	PASS
N26-814-824	15	5	CP-QPSK	L	Outer_Full	4.463	5.030	PASS
N26-814-824	15	5	CP-16QAM	L	Outer_Full	4.463	4.980	PASS
N26-814-824	15	5	CP-64QAM	L	Outer_Full	4.483	5.160	PASS
N26-814-824	15	5	CP-256QAM	L	Outer_Full	4.469	5.100	PASS
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	4.472	4.980	PASS
N26-814-824	15	5	DFT-PI2BPSK	M	Outer_Full	4.466	5.120	PASS
N26-814-824	15	5	DFT-16QAM	M	Outer_Full	4.46	4.820	PASS
N26-814-824	15	5	DFT-64QAM	M	Outer_Full	4.467	5.050	PASS
N26-814-824	15	5	DFT-256QAM	M	Outer_Full	4.478	4.990	PASS
N26-814-824	15	5	CP-QPSK	M	Outer_Full	4.471	4.990	PASS
N26-814-824	15	5	CP-16QAM	M	Outer_Full	4.475	5.110	PASS
N26-814-824	15	5	CP-64QAM	M	Outer_Full	4.48	5.010	PASS
N26-814-824	15	5	CP-256QAM	M	Outer_Full	4.472	5.000	PASS
N26-814-824	15	5	DFT-QPSK	H	Outer_Full	4.496	5.020	PASS
N26-814-824	15	5	DFT-PI2BPSK	H	Outer_Full	4.467	5.130	PASS
N26-814-824	15	5	DFT-16QAM	H	Outer_Full	4.473	5.120	PASS
N26-814-824	15	5	DFT-64QAM	H	Outer_Full	4.49	5.110	PASS
N26-814-824	15	5	DFT-256QAM	H	Outer_Full	4.47	4.990	PASS
N26-814-824	15	5	CP-QPSK	H	Outer_Full	4.47	5.070	PASS
N26-814-824	15	5	CP-16QAM	H	Outer_Full	4.487	4.980	PASS
N26-814-824	15	5	CP-64QAM	H	Outer_Full	4.471	5.030	PASS
N26-814-824	15	5	CP-256QAM	H	Outer_Full	4.49	5.110	PASS
N26-814-824	15	10	DFT-QPSK	M	Outer_Full	8.922	9.440	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	8.953	9.680	PASS
N26-814-824	15	10	DFT-16QAM	M	Outer_Full	8.905	9.800	PASS
N26-814-824	15	10	DFT-64QAM	M	Outer_Full	8.905	9.520	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	8.928	9.540	PASS



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N26-814-824	15	10	CP-QPSK	M	Outer_Full	9.254	10.020	PASS
N26-814-824	15	10	CP-16QAM	M	Outer_Full	9.293	10.060	PASS
N26-814-824	15	10	CP-64QAM	M	Outer_Full	9.288	10.020	PASS
N26-814-824	15	10	CP-256QAM	M	Outer_Full	9.274	9.900	PASS



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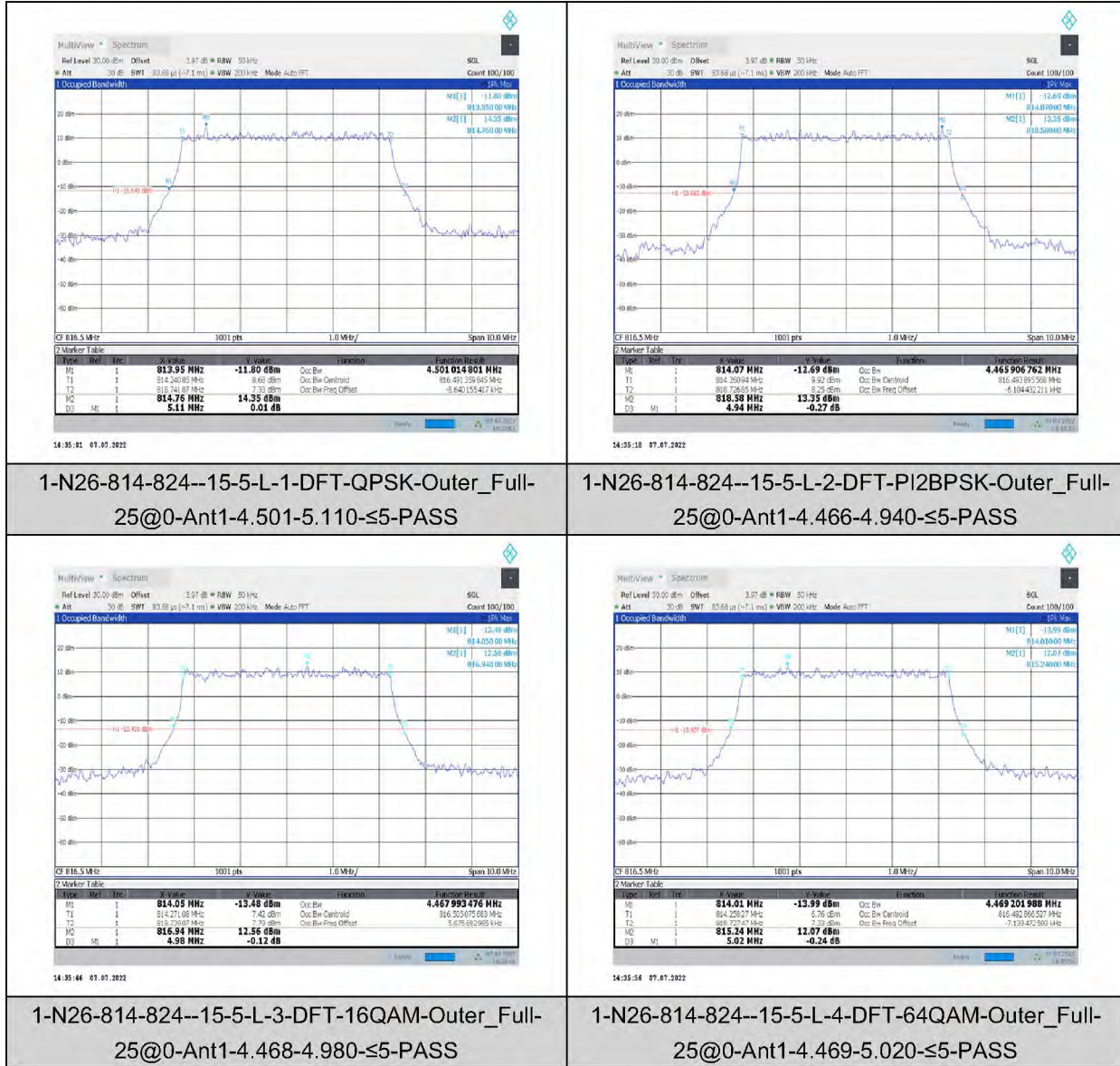
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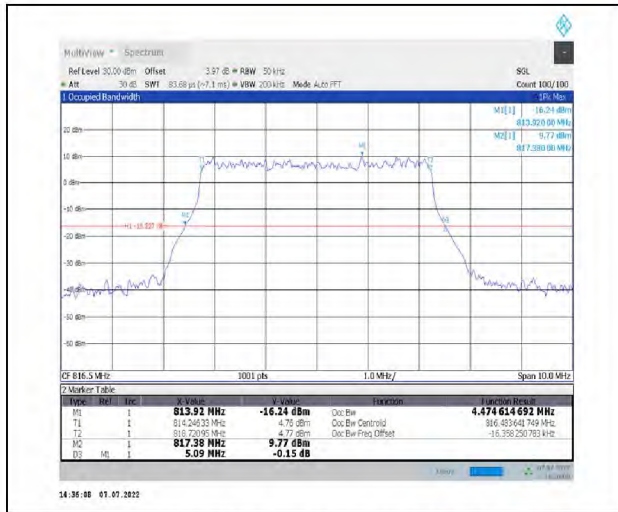
Test Graphs



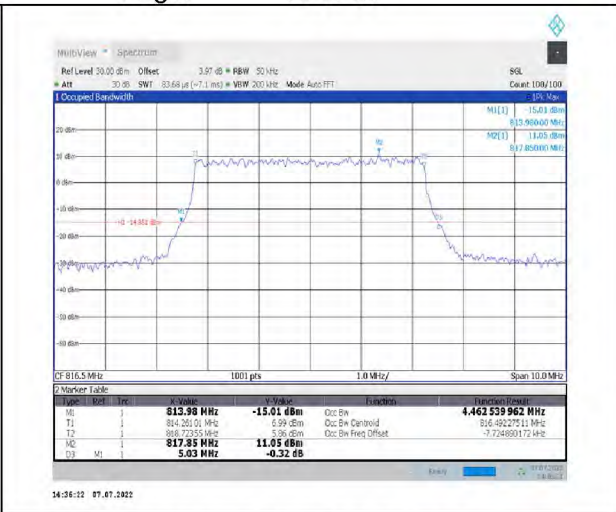
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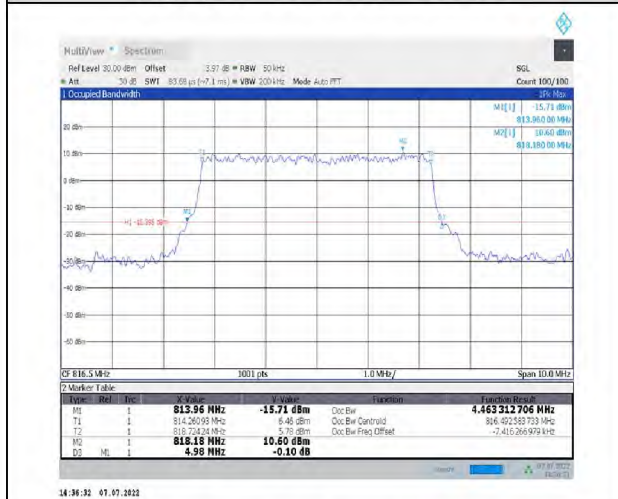
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1-N26-814-824--15-5-L-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.475-5.090-<5-PASS



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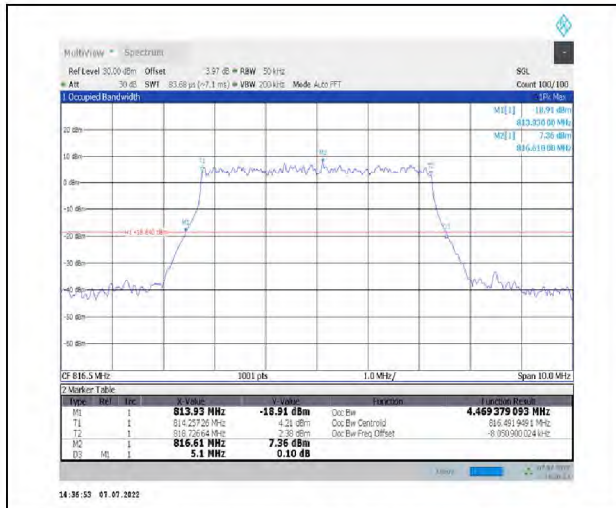
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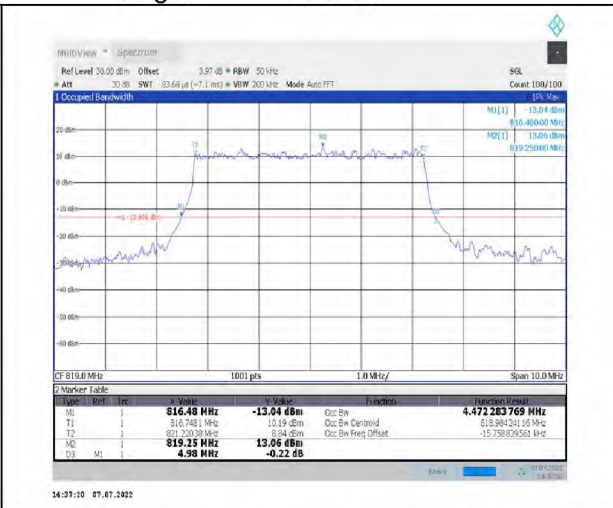
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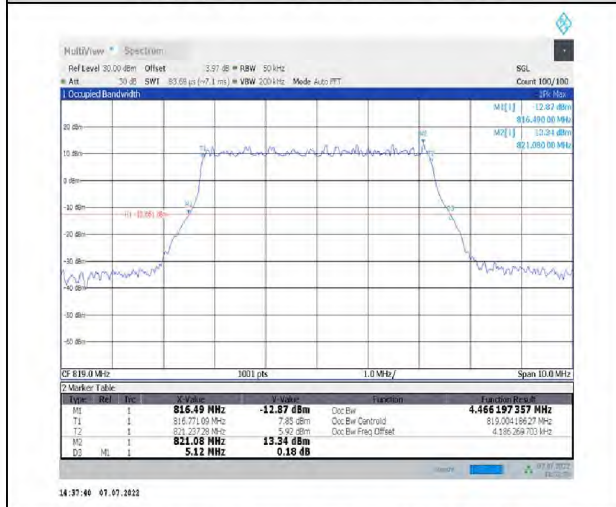
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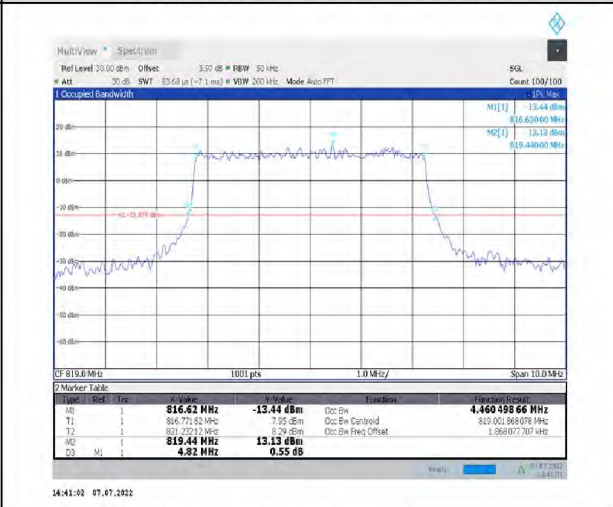
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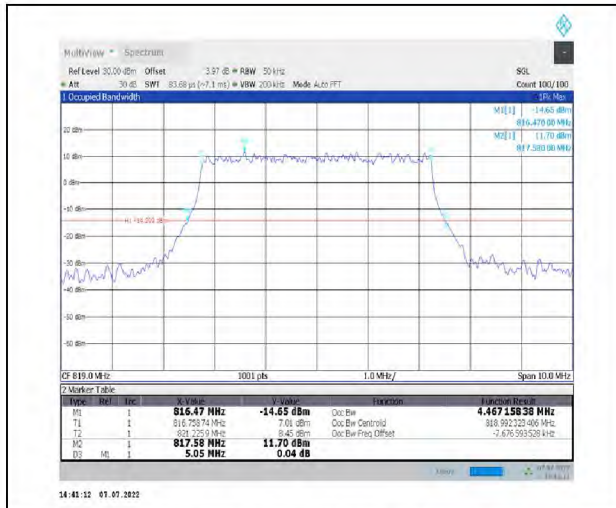


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1-N26-814-824--15-5-M-5-DFT-256QAM-Outer_Full-25@0-Ant1-4.478-4.990-<5-PASS



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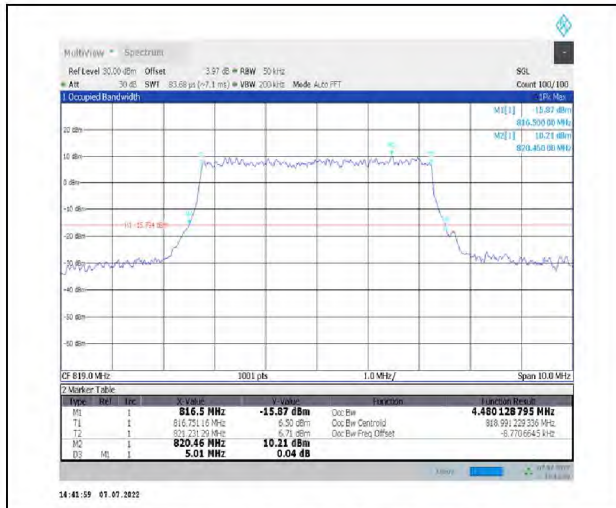
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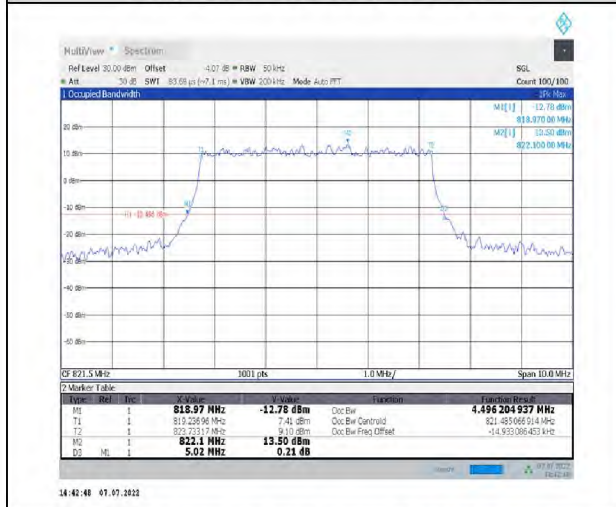
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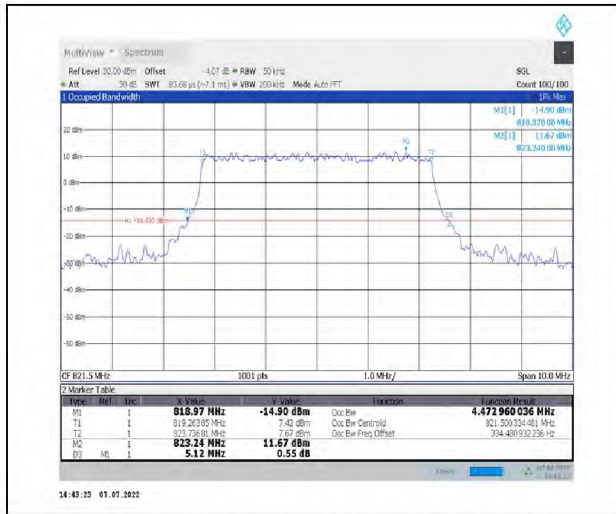
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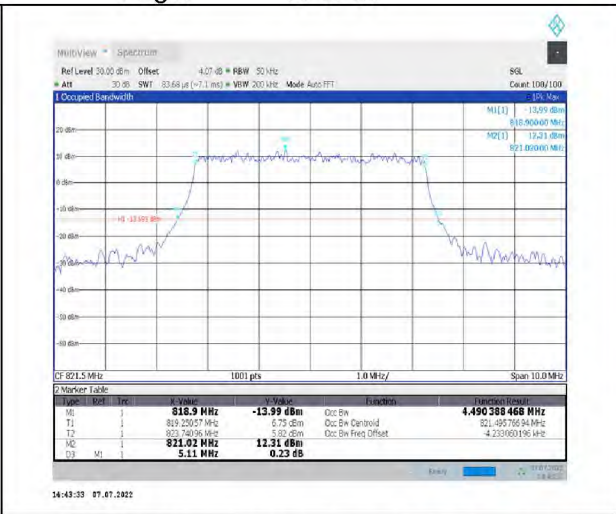
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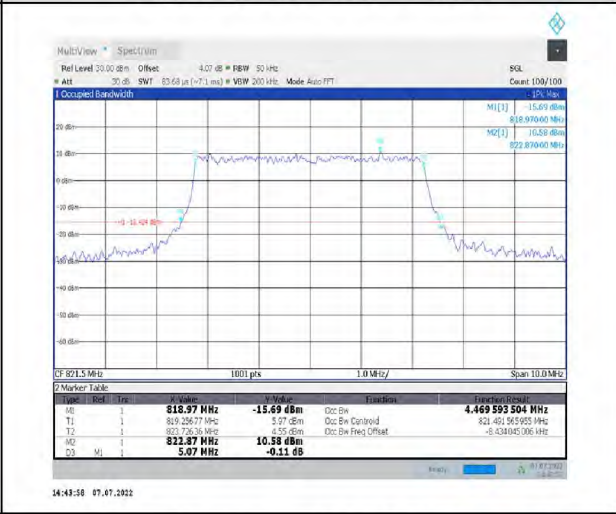
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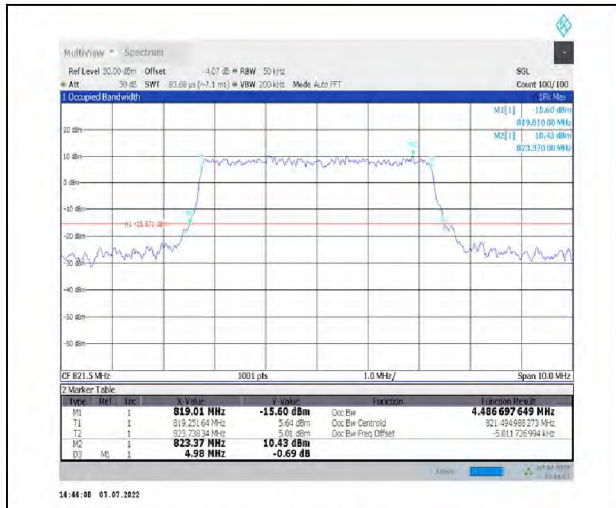
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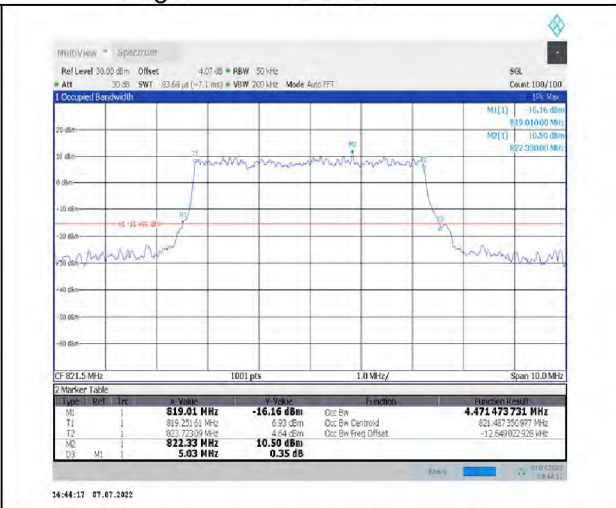
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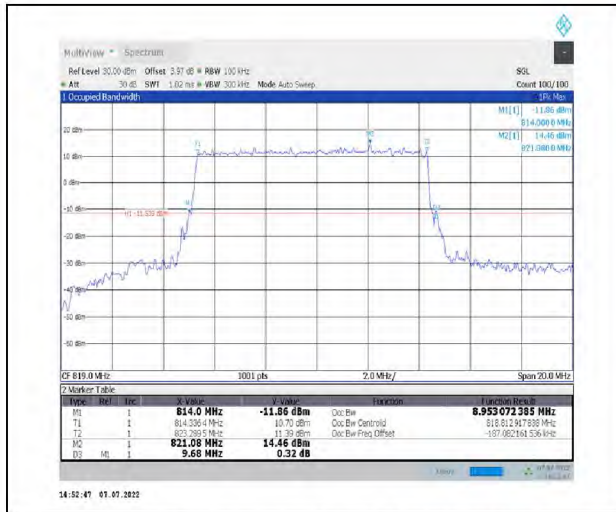
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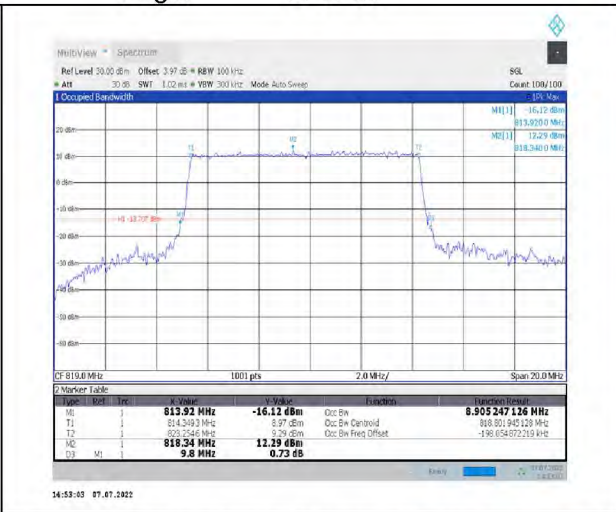
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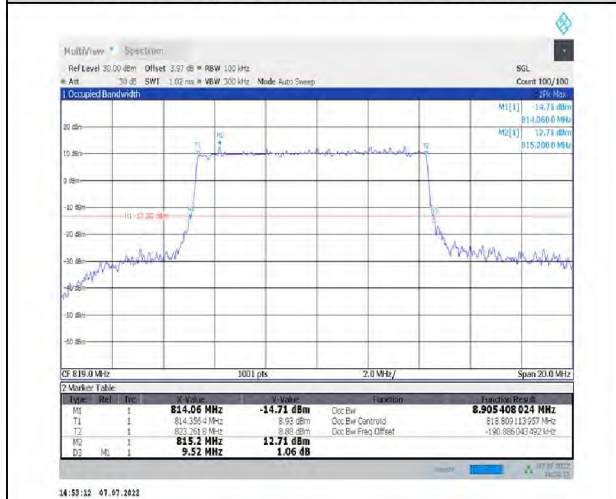
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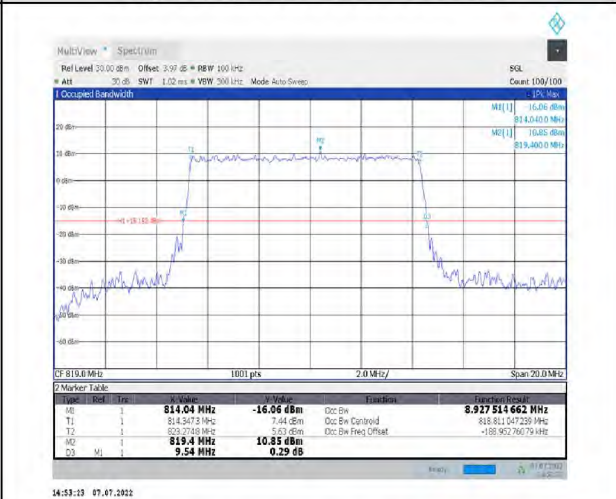
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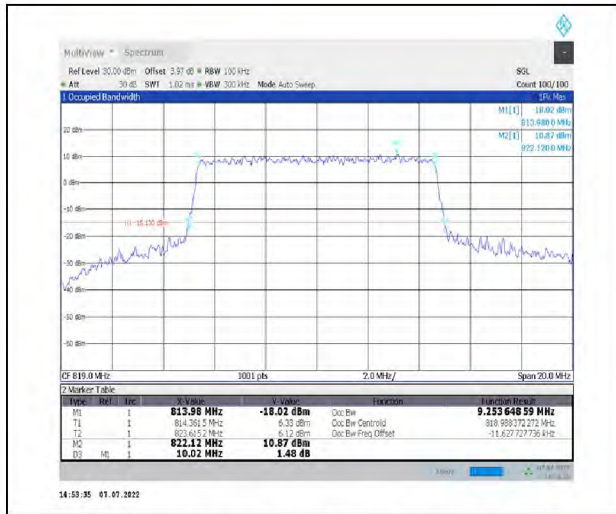
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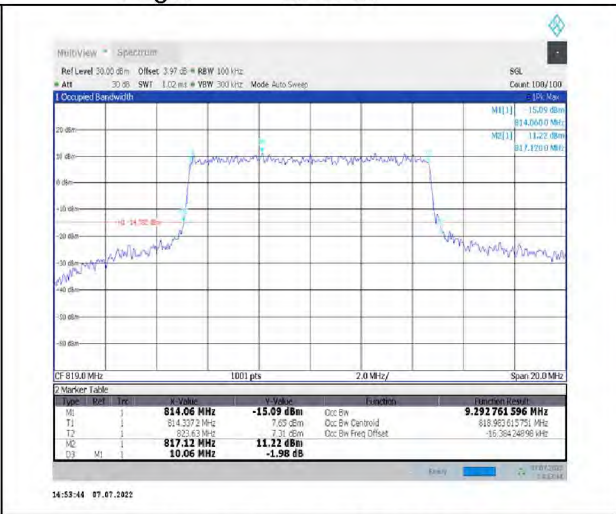
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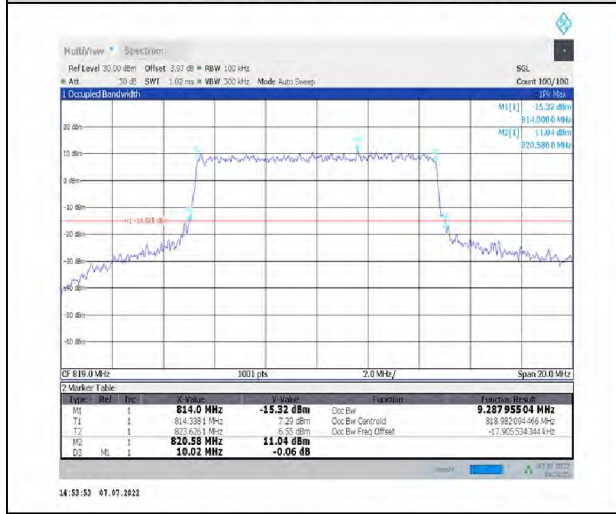
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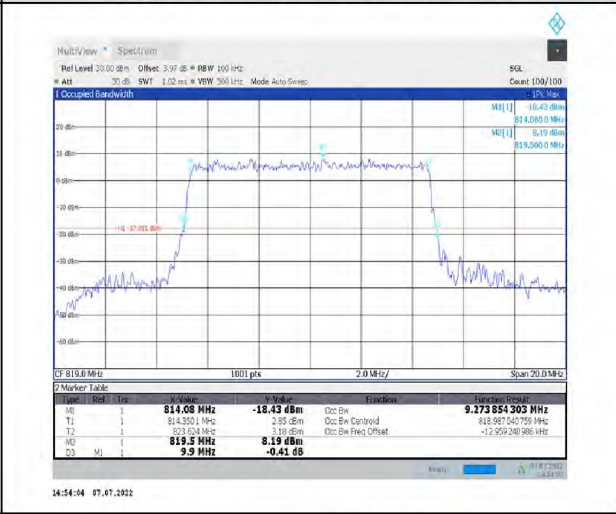
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1-N26-814-824--15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant1-9.293-10.060-<=10-PASS



1-N26-814-824--15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant1-9.288-10.020-<=10-PASS



1-N26-814-824--15-10-M-9-CP-256QAM-Outer_Full-52@0-Ant1-9.274-9.900-<=10-PASS



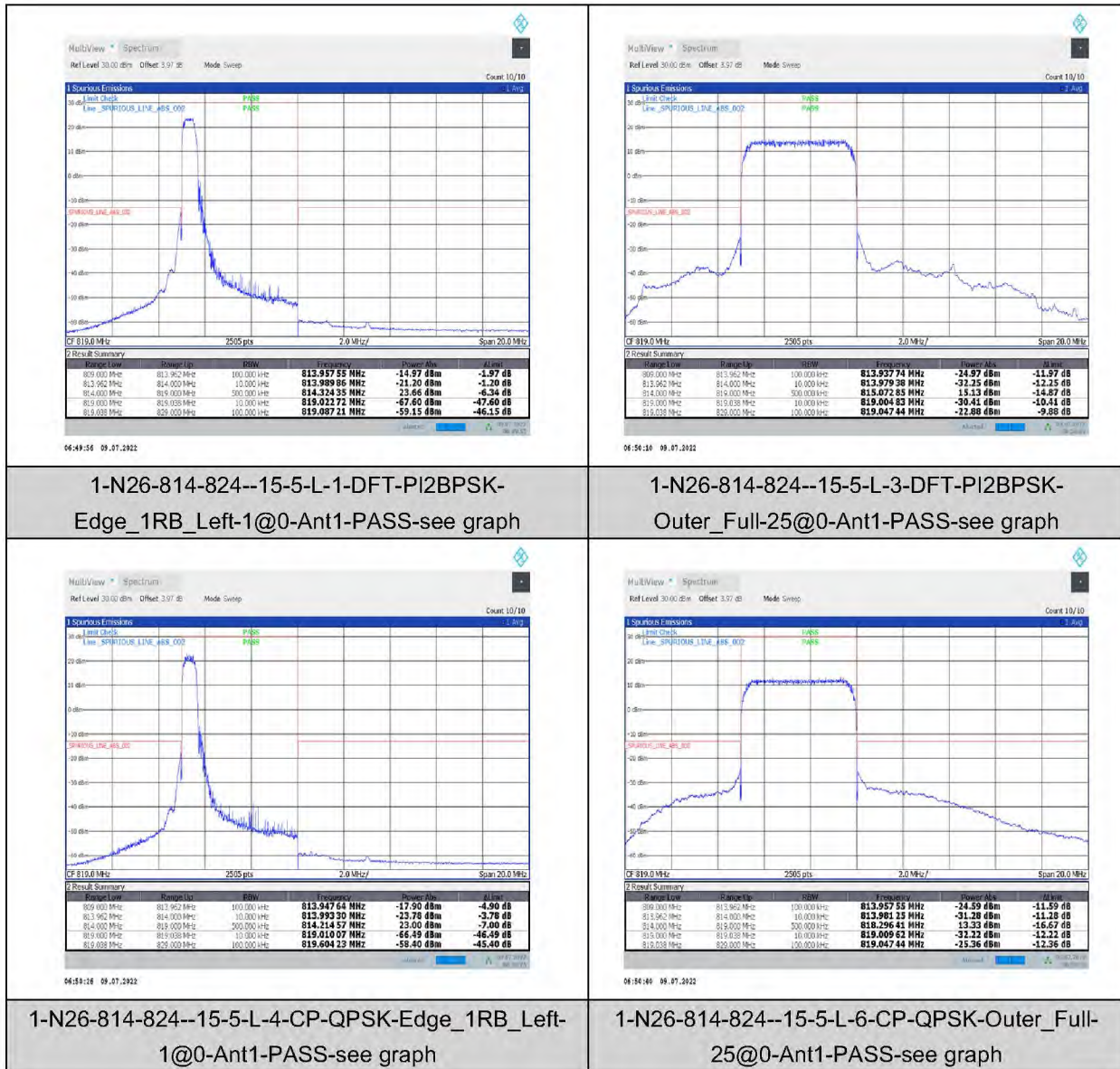
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Band Edge for SA

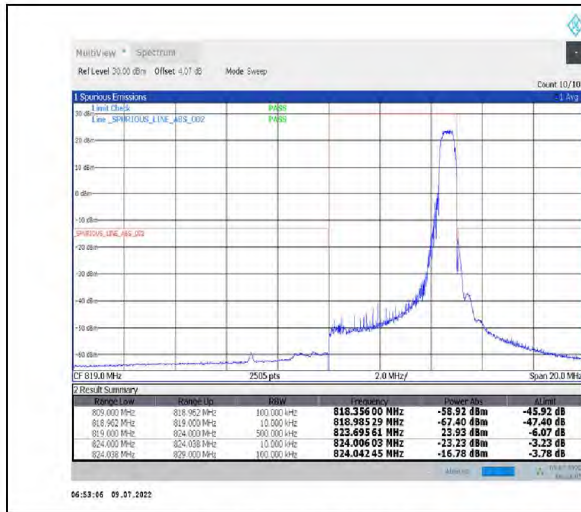
Test Graphs



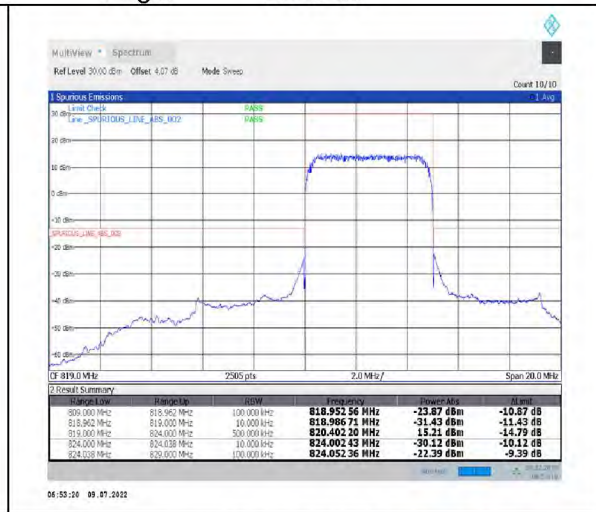
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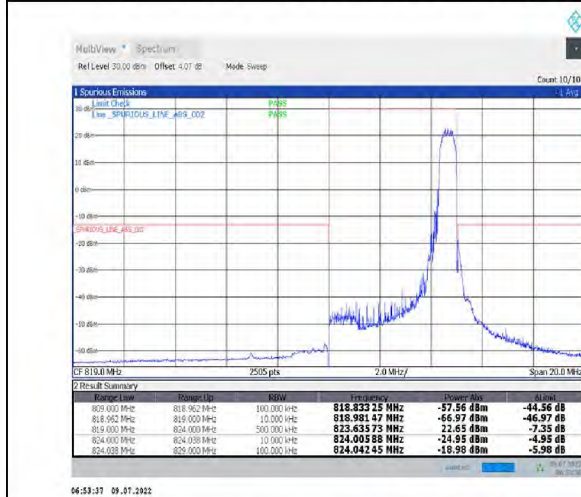
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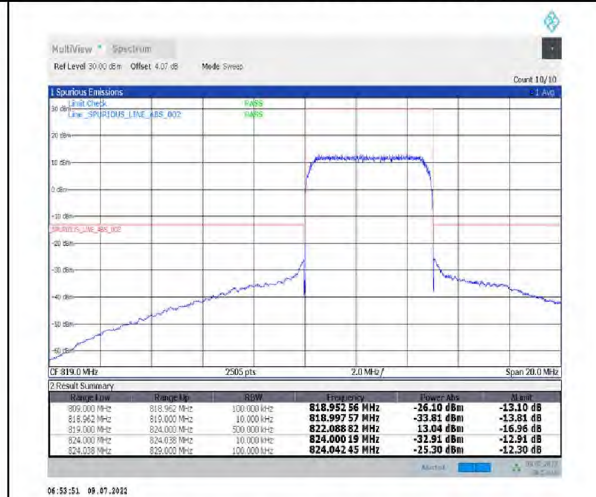
1-N26-814-824--15-5-H-2-DFT-PI2BPSK-Edge_1RB_Right-1@24-Ant1-PASS-see graph



1-N26-814-824--15-5-H-3-DFT-PI2BPSK-Outer_Full-25@0-Ant1-PASS-see graph



1-N26-814-824--15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-Ant1-PASS-see graph



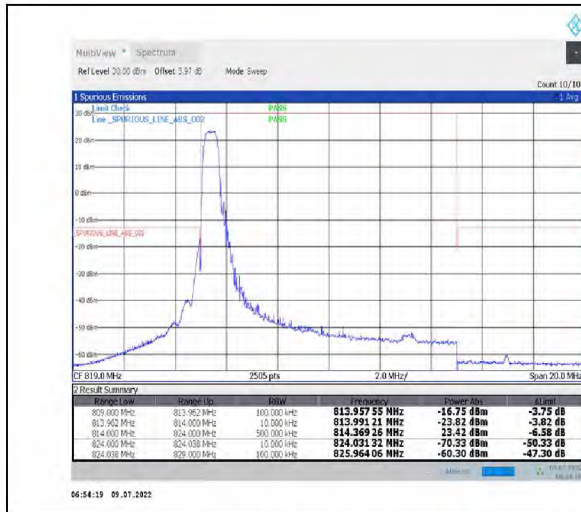
1-N26-814-824--15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-PASS-see graph



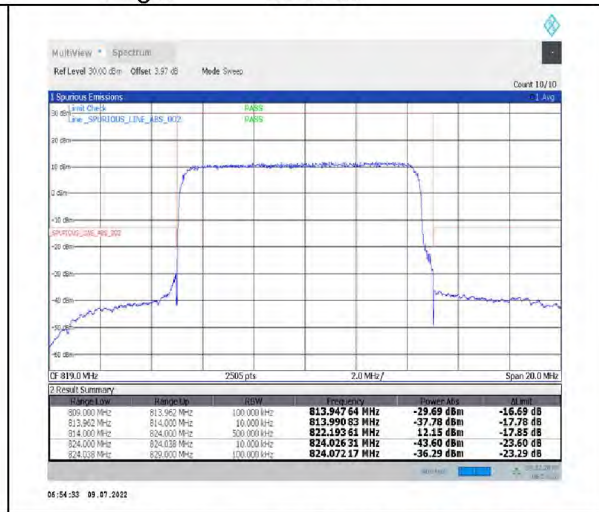
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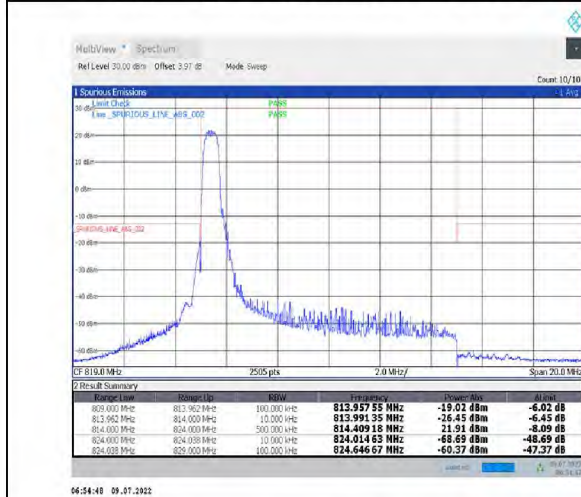
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1-N26-814-824--15-10-M-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



1-N26-814-824--15-10-M-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-PASS-see graph



1-N26-814-824--15-10-M-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



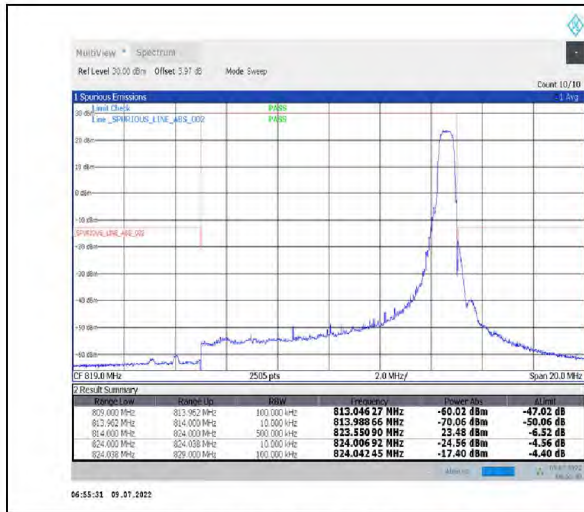
1-N26-814-824--15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph



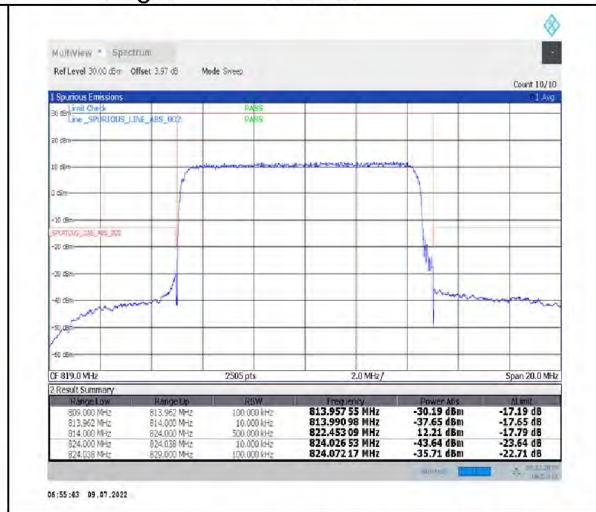
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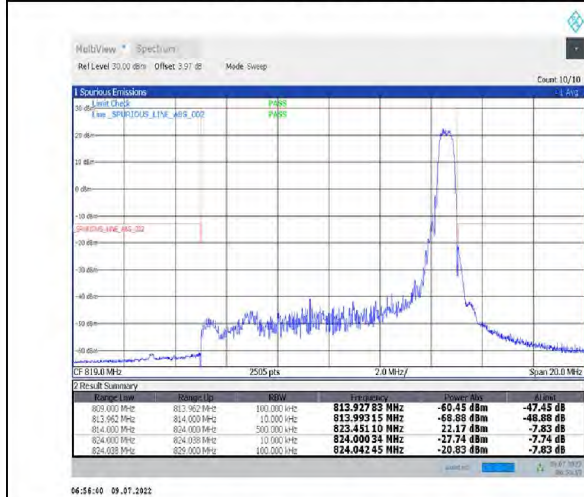
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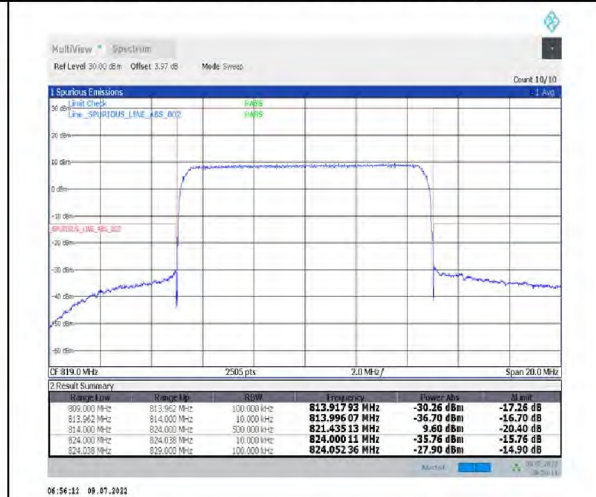
1-N26-814-824--15-10-M-2-DFT-PI2BPSK-Edge_1RB_Right-1@51-Ant1-PASS-see graph



1-N26-814-824--15-10-M-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-PASS-see graph



1-N26-814-824--15-10-M-5-CP-QPSK-Edge_1RB_Right-1@51-Ant1-PASS-see graph



1-N26-814-824--15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph



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Conducted Spurious Emission for SA

Test Graphs

<p>1-N26-814-824-PC3-15-10-M-1-DFT-PI2BPSK- Inner_1RB_Left-1@1-0.009-0.15-Ant1--89.91--33- PASS</p>	<p>1-N26-814-824-PC3-15-10-M-1-DFT-PI2BPSK- Inner_1RB_Left-1@1-0.15-30-Ant1--84.18--23-PASS</p>
<p>1-N26-814-824-PC3-15-10-M-1-DFT-PI2BPSK- Inner_1RB_Left-1@1-30-1000-Ant1--59.96--13- PASS</p>	<p>1-N26-814-824-PC3-15-10-M-1-DFT-PI2BPSK- Inner_1RB_Left-1@1-1000-3000-Ant1--47.53--13- PASS</p>



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<p>1-N26-814-824-PC3-15-10-M-1-DFT-PI2BPSK- Inner_1RB_Left-1@1-3000-12000-Ant1--49.34--13- PASS</p>	<p>1-N26-814-824-PC3-15-10-M-1-DFT-PI2BPSK- Inner_1RB_Left-1@1-12000-20000-Ant1--39.62--13- PASS</p>



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Field Strength of Spurious Radiation

Test Band = LTE Band 26 10M_ TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1629.18	68.82	-118.11	-49.29	-13.00	36.29	168	257	Horizontal
2	2443.77	66.91	-114.69	-47.78	-13.00	34.78	342	238	Horizontal
3	3258.36	66.33	-111.94	-45.61	-13.00	32.61	268	63	Horizontal
4	4072.95	68.48	-109.98	-41.50	-13.00	28.50	146	147	Horizontal
5	4887.54	50.35	-108.01	-57.66	-13.00	44.66	214	288	Horizontal
6	5702.13	49.67	-105.57	-55.90	-13.00	42.90	156	257	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1629.18	60.66	-118.11	-57.45	-13.00	44.45	156	274	Vertical
2	2443.77	62.63	-114.69	-52.06	-13.00	39.06	147	256	Vertical
3	3258.36	61.15	-111.94	-50.79	-13.00	37.79	356	73	Vertical
4	4072.95	63.98	-109.98	-46.00	-13.00	33.00	248	140	Vertical
5	4887.54	50.01	-108.01	-58.00	-13.00	45.00	246	351	Vertical
6	5702.13	50.78	-105.57	-54.79	-13.00	41.79	168	158	Vertical



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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
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	- 1.800000	- 0.002198	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	1.400000	0.001709	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	- 0.800000	- 0.000977	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VH	NT	4.800000	0.005861	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VN	NT	2.100000	0.002564	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VL	NT	- 0.300000	- 0.000366	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SC S	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	- 2.000000	- 0.002442	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	- 3.000000	- 0.003663	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	- 0.100000	- 0.000122	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	- 1.400000	- 0.001709	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	0.100000	0.000122	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	- 2.500000	- 0.003053	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	- 1.200000	- 0.001465	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	- 1.400000	- 0.001709	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	- 1.200000	- 0.001465	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-30	2.500000	0.003053	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-20	- 0.200000	- 0.000244	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-10	4.400000	0.005372	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	0	2.100000	0.002564	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	10	2.000000	0.002442	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	20	5.000000	0.006105	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	30	- 0.500000	- 0.000611	PASS
N26-814-	15	10	CP-QPSK	M	Outer_Full	NV	40	0.500000	0.000611	PASS



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824					I					S
N26-814-824	15	10	CP-QPSK	M	Outer_Ful I	NV	50	4.700000	0.005739	PAS S

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