



**SGS-CSTC Standards Technical Services Co., Ltd.**  
**Shenzhen Branch**

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# Appendix B.24

## NR Band n26(814-824)



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## Transmitter Conducted Power Output

### Test Result

ANT11

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Limit	Verdict
N26-814-824	15	5	DFT-PI2BPSK	L	1@1	23.27	50	PASS
N26-814-824	15	5	DFT-PI2BPSK	L	1@23	23.22	50	PASS
N26-814-824	15	5	DFT-PI2BPSK	L	25@0	22.85	50	PASS
N26-814-824	15	5	DFT-QPSK	L	1@1	23.35	50	PASS
N26-814-824	15	5	DFT-QPSK	L	1@23	23.25	50	PASS
N26-814-824	15	5	DFT-QPSK	L	25@0	22.62	50	PASS
N26-814-824	15	5	DFT-16QAM	L	1@1	23.03	50	PASS
N26-814-824	15	5	DFT-16QAM	L	1@23	22.78	50	PASS
N26-814-824	15	5	DFT-16QAM	L	25@0	21.77	50	PASS
N26-814-824	15	5	DFT-64QAM	L	1@1	21.31	50	PASS
N26-814-824	15	5	DFT-64QAM	L	1@23	21.26	50	PASS
N26-814-824	15	5	DFT-64QAM	L	25@0	21.23	50	PASS
N26-814-824	15	5	DFT-256QAM	L	1@1	19.00	50	PASS
N26-814-824	15	5	DFT-256QAM	L	1@23	18.93	50	PASS
N26-814-824	15	5	DFT-256QAM	L	25@0	19.18	50	PASS
N26-814-824	15	5	DFT-PI2BPSK	M	1@1	23.26	50	PASS
N26-814-824	15	5	DFT-PI2BPSK	M	1@23	23.16	50	PASS
N26-814-824	15	5	DFT-PI2BPSK	M	25@0	22.82	50	PASS
N26-814-824	15	5	DFT-QPSK	M	1@1	23.17	50	PASS
N26-814-824	15	5	DFT-QPSK	M	1@23	23.20	50	PASS
N26-814-824	15	5	DFT-QPSK	M	25@0	22.47	50	PASS
N26-814-824	15	5	DFT-16QAM	M	1@1	22.83	50	PASS
N26-814-824	15	5	DFT-16QAM	M	1@23	22.85	50	PASS
N26-814-824	15	5	DFT-16QAM	M	25@0	21.73	50	PASS
N26-814-824	15	5	DFT-64QAM	M	1@1	21.29	50	PASS
N26-814-824	15	5	DFT-64QAM	M	1@23	21.26	50	PASS
N26-814-824	15	5	DFT-64QAM	M	25@0	21.16	50	PASS
N26-814-824	15	5	DFT-256QAM	M	1@1	18.94	50	PASS
N26-814-824	15	5	DFT-256QAM	M	1@23	18.92	50	PASS
N26-814-824	15	5	DFT-256QAM	M	25@0	19.19	50	PASS



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N26-814-824	15	5	DFT-PI2BPSK	H	1@1	23.23	50	PASS
N26-814-824	15	5	DFT-PI2BPSK	H	1@23	23.13	50	PASS
N26-814-824	15	5	DFT-PI2BPSK	H	25@0	22.74	50	PASS
N26-814-824	15	5	DFT-QPSK	H	1@1	23.17	50	PASS
N26-814-824	15	5	DFT-QPSK	H	1@23	23.16	50	PASS
N26-814-824	15	5	DFT-QPSK	H	25@0	22.56	50	PASS
N26-814-824	15	5	DFT-16QAM	H	1@1	22.80	50	PASS
N26-814-824	15	5	DFT-16QAM	H	1@23	22.82	50	PASS
N26-814-824	15	5	DFT-16QAM	H	25@0	21.76	50	PASS
N26-814-824	15	5	DFT-64QAM	H	1@1	21.19	50	PASS
N26-814-824	15	5	DFT-64QAM	H	1@23	21.19	50	PASS
N26-814-824	15	5	DFT-64QAM	H	25@0	21.19	50	PASS
N26-814-824	15	5	DFT-256QAM	H	1@1	18.85	50	PASS
N26-814-824	15	5	DFT-256QAM	H	1@23	18.90	50	PASS
N26-814-824	15	5	DFT-256QAM	H	25@0	19.09	50	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	1@1	23.25	50	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	1@50	23.13	50	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	50@0	22.86	50	PASS
N26-814-824	15	10	DFT-QPSK	M	1@1	23.24	50	PASS
N26-814-824	15	10	DFT-QPSK	M	1@50	23.18	50	PASS
N26-814-824	15	10	DFT-QPSK	M	50@0	22.51	50	PASS
N26-814-824	15	10	DFT-16QAM	M	1@1	22.93	50	PASS
N26-814-824	15	10	DFT-16QAM	M	1@50	22.77	50	PASS
N26-814-824	15	10	DFT-16QAM	M	50@0	21.78	50	PASS
N26-814-824	15	10	DFT-64QAM	M	1@1	21.40	50	PASS
N26-814-824	15	10	DFT-64QAM	M	1@50	21.21	50	PASS
N26-814-824	15	10	DFT-64QAM	M	50@0	21.07	50	PASS
N26-814-824	15	10	DFT-256QAM	M	1@1	18.96	50	PASS
N26-814-824	15	10	DFT-256QAM	M	1@50	18.87	50	PASS
N26-814-824	15	10	DFT-256QAM	M	50@0	19.24	50	PASS



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**Peak-to-Average Ratio for SA**

**Peak-to-Average Ratio(CCDF)**

**Test Graphs**



1-N26-814-824-PC3-15-10-M-1-NS\_01-DFT-256QAM-Outer\_Full-50@0-6.53-PASS



1-N26-814-824-PC3-15-10-M-2-NS\_01-CP-256QAM-Outer\_Full-52@0-7.02-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
N26-814-824	15	5	DFT-QPSK	L	25@0	4.4968	5.134	PASS
N26-814-824	15	5	DFT-PI2BPSK	L	25@0	4.4967	5.127	PASS
N26-814-824	15	5	DFT-16QAM	L	25@0	4.5149	5.121	PASS
N26-814-824	15	5	DFT-64QAM	L	25@0	4.4935	5.197	PASS
N26-814-824	15	5	DFT-256QAM	L	25@0	4.4796	5.203	PASS
N26-814-824	15	5	CP-QPSK	L	25@0	4.5015	5.149	PASS
N26-814-824	15	5	CP-16QAM	L	25@0	4.5513	5.115	PASS
N26-814-824	15	5	CP-64QAM	L	25@0	4.4813	5.008	PASS
N26-814-824	15	5	CP-256QAM	L	25@0	4.5096	5.166	PASS
N26-814-824	15	5	DFT-QPSK	M	25@0	4.4880	5.112	PASS
N26-814-824	15	5	DFT-PI2BPSK	M	25@0	4.4862	5.182	PASS
N26-814-824	15	5	DFT-16QAM	M	25@0	4.4940	5.180	PASS
N26-814-824	15	5	DFT-64QAM	M	25@0	4.4880	4.995	PASS
N26-814-824	15	5	DFT-256QAM	M	25@0	4.5048	5.193	PASS
N26-814-824	15	5	CP-QPSK	M	25@0	4.4966	5.241	PASS
N26-814-824	15	5	CP-16QAM	M	25@0	4.5263	5.261	PASS
N26-814-824	15	5	CP-64QAM	M	25@0	4.4823	5.177	PASS
N26-814-824	15	5	CP-256QAM	M	25@0	4.5210	5.155	PASS
N26-814-824	15	5	DFT-QPSK	H	25@0	4.4784	5.053	PASS
N26-814-824	15	5	DFT-PI2BPSK	H	25@0	4.4942	5.104	PASS
N26-814-824	15	5	DFT-16QAM	H	25@0	4.5401	5.290	PASS
N26-814-824	15	5	DFT-64QAM	H	25@0	4.4970	5.122	PASS
N26-814-824	15	5	DFT-256QAM	H	25@0	4.4817	5.111	PASS
N26-814-824	15	5	CP-QPSK	H	25@0	4.4891	5.125	PASS
N26-814-824	15	5	CP-16QAM	H	25@0	4.5205	5.346	PASS
N26-814-824	15	5	CP-64QAM	H	25@0	4.4853	5.178	PASS
N26-814-824	15	5	CP-256QAM	H	25@0	4.5286	5.259	PASS
N26-814-824	15	10	DFT-QPSK	M	50@0	8.9037	9.566	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	50@0	8.8833	9.557	PASS
N26-814-824	15	10	DFT-16QAM	M	50@0	8.8990	9.533	PASS



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N26-814-824	15	10	DFT-64QAM	M	50@0	8.9146	9.605	PASS
N26-814-824	15	10	DFT-256QAM	M	50@0	8.8932	9.596	PASS
N26-814-824	15	10	CP-QPSK	M	52@0	9.2829	10.04	PASS
N26-814-824	15	10	CP-16QAM	M	52@0	9.2967	9.977	PASS
N26-814-824	15	10	CP-64QAM	M	52@0	9.2511	9.765	PASS
N26-814-824	15	10	CP-256QAM	M	52@0	9.2840	9.937	PASS



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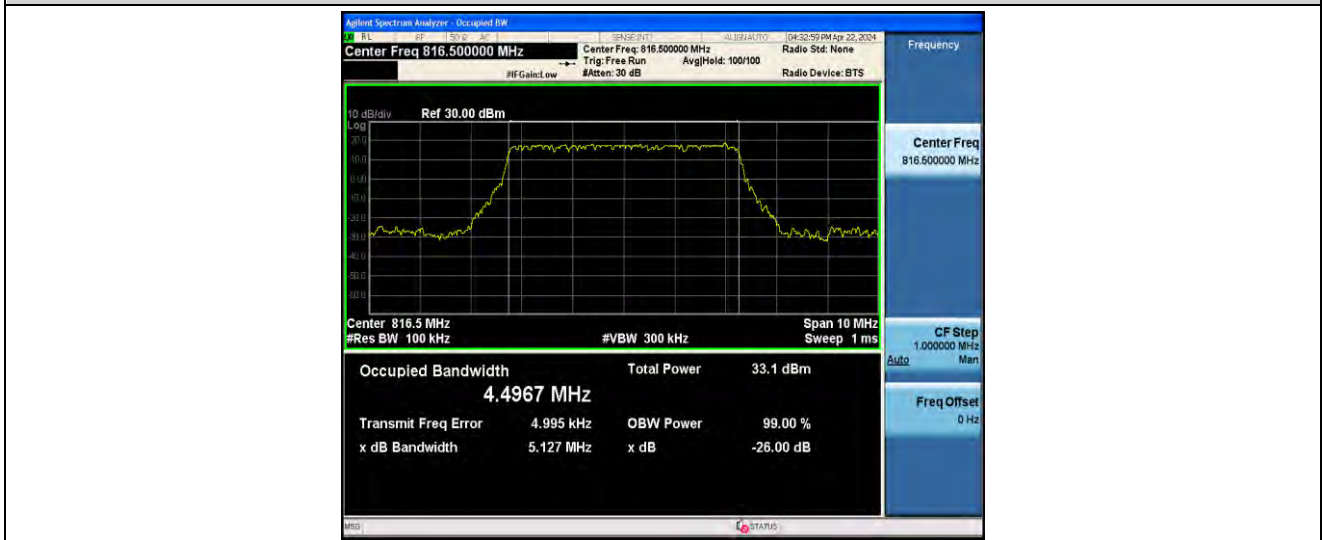
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**Test Graphs**



1-N26-814-824-PC3-15-5-L-1-DFT-QPSK-Outer\_Full-25@0-ANT11-4.4968-5.134-<math>\leq</math>5-PASS



1-N26-814-824-PC3-15-5-L-2-DFT-PI2BPSK-Outer\_Full-25@0-ANT11-4.4967-5.127-<math>\leq</math>5-PASS



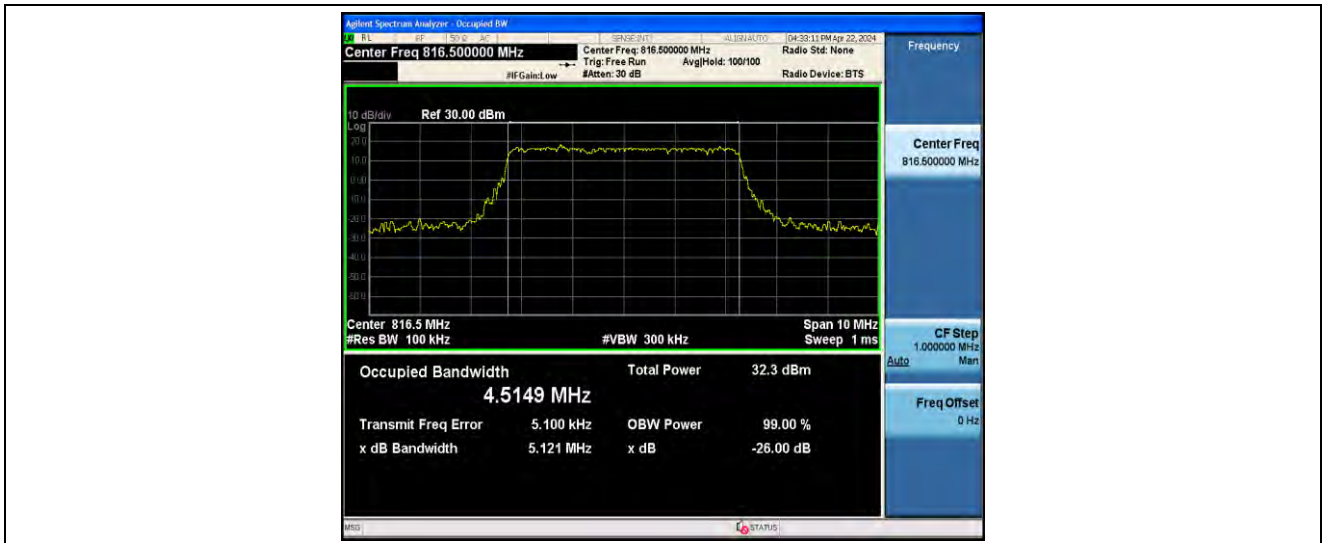
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1-N26-814-824-PC3-15-5-L-3-DFT-16QAM-Outer\_Full-25@0-ANT11-4.5149-5.121-≤5-PASS



1-N26-814-824-PC3-15-5-L-4-DFT-64QAM-Outer\_Full-25@0-ANT11-4.4935-5.197-≤5-PASS



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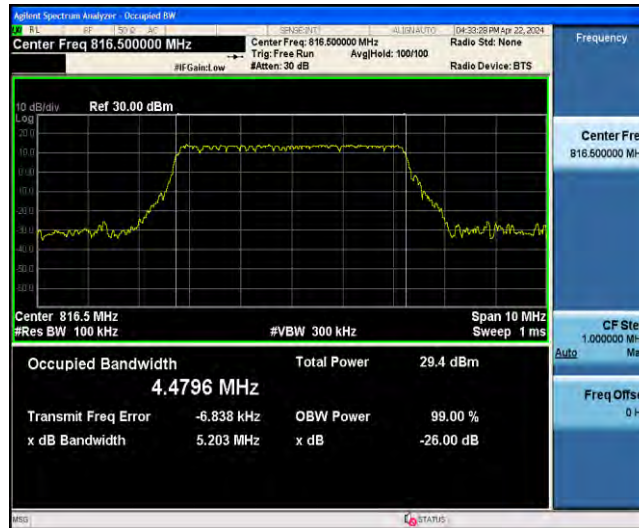
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1-N26-814-824-PC3-15-5-L-5-DFT-256QAM-Outer\_Full-25@0-ANT11-4.4796-5.203-<math>\leq</math>5-PASS



1-N26-814-824-PC3-15-5-L-6-CP-QPSK-Outer\_Full-25@0-ANT11-4.5015-5.149-<math>\leq</math>5-PASS



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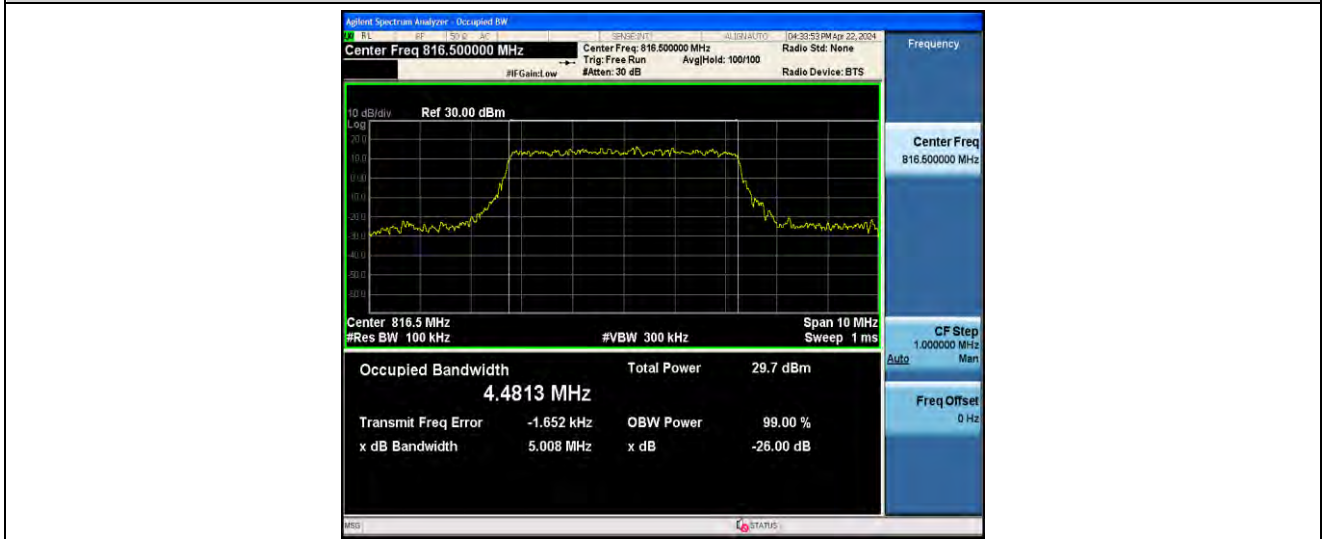


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1-N26-814-824-PC3-15-5-L-7-CP-16QAM-Outer\_Full-25@0-ANT11-4.5513-5.115-≤5-PASS



1-N26-814-824-PC3-15-5-L-8-CP-64QAM-Outer\_Full-25@0-ANT11-4.4813-5.008-≤5-PASS



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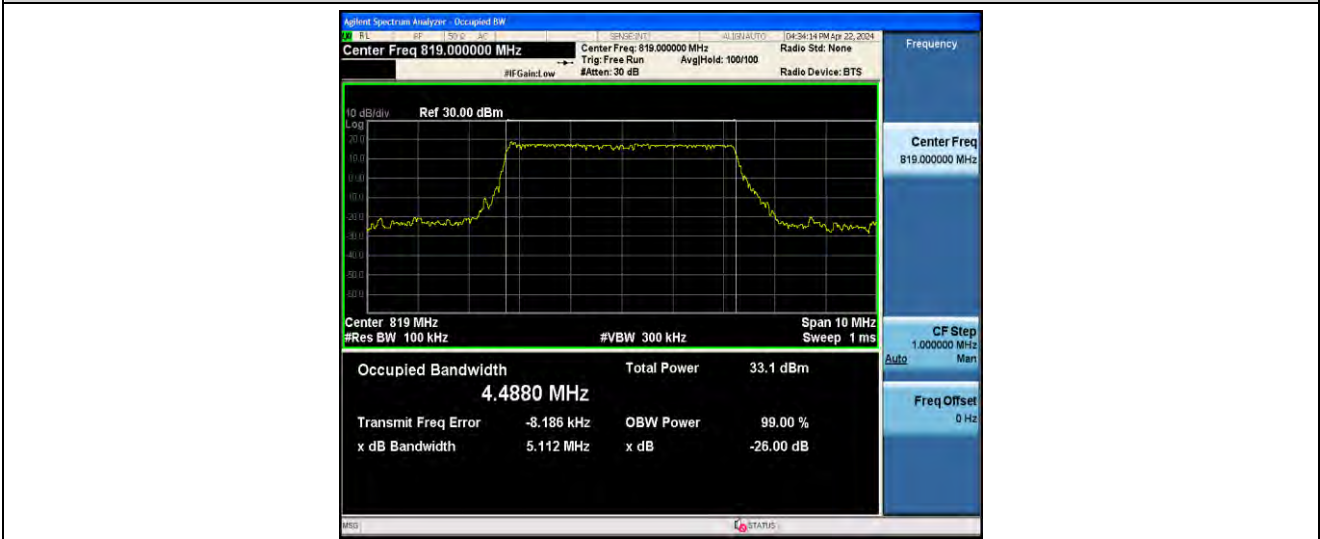


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1-N26-814-824-PC3-15-5-L-9-CP-256QAM-Outer\_Full-25@0-ANT11-4.5096-5.166-≤5-PASS



1-N26-814-824-PC3-15-5-M-1-DFT-QPSK-Outer\_Full-25@0-ANT11-4.4880-5.112-≤5-PASS



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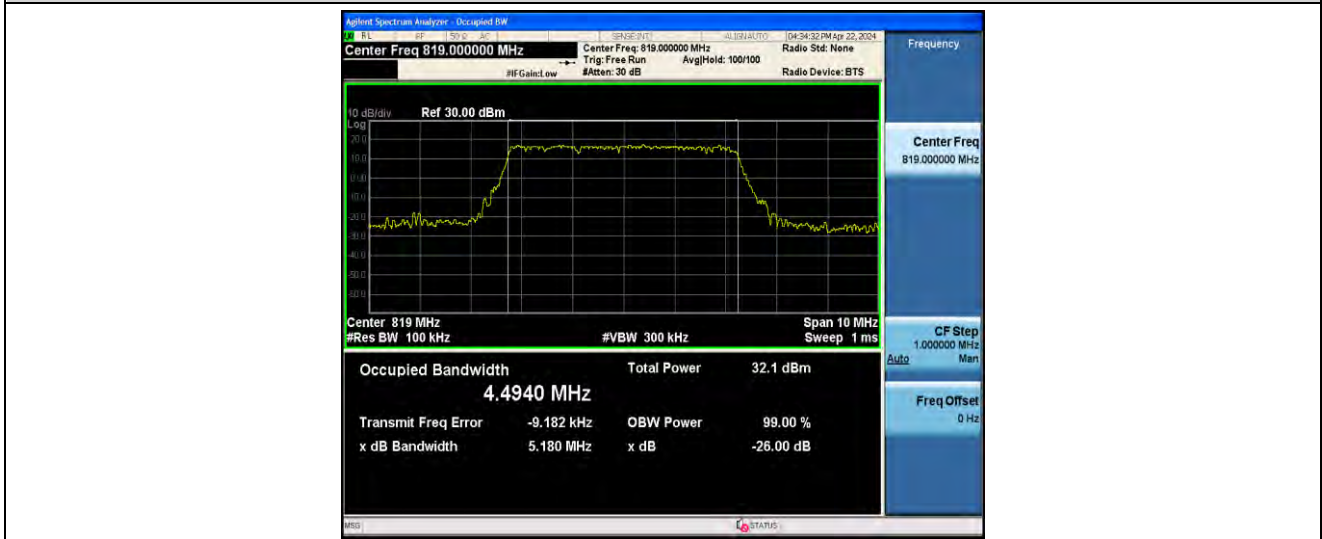


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1-N26-814-824-PC3-15-5-M-3-DFT-16QAM-Outer\_Full-25@0-ANT11-4.4940-5.180-≤5-PASS



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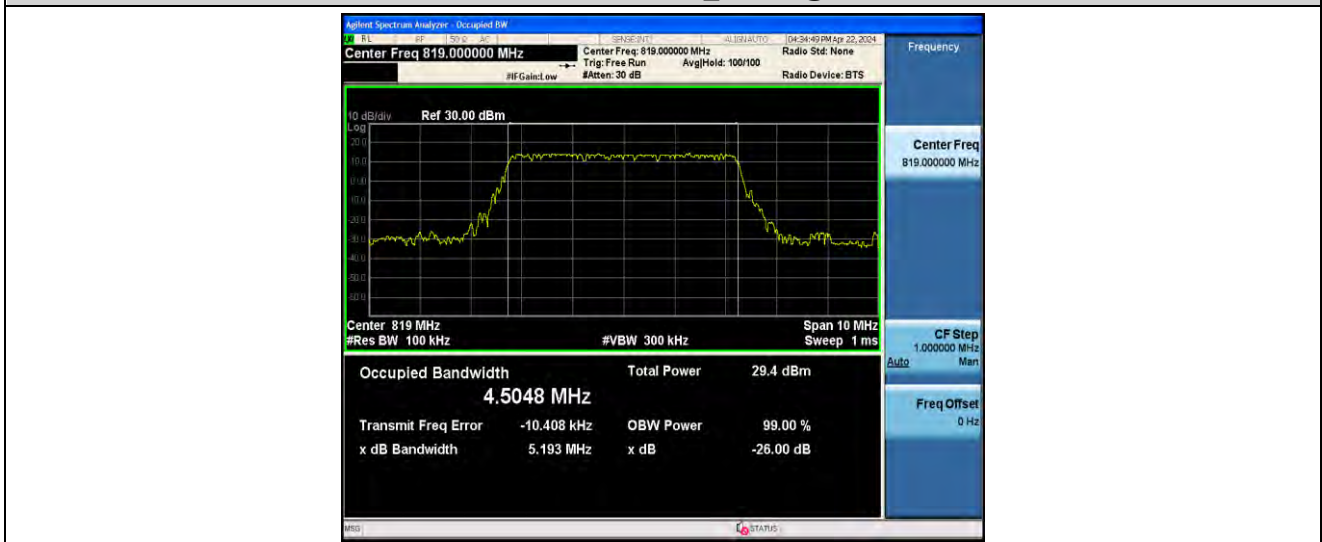


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1-N26-814-824-PC3-15-5-M-6-CP-QPSK-Outer\_Full-25@0-ANT11-4.4966-5.241-≤5-PASS



1-N26-814-824-PC3-15-5-M-7-CP-16QAM-Outer\_Full-25@0-ANT11-4.5263-5.261-≤5-PASS



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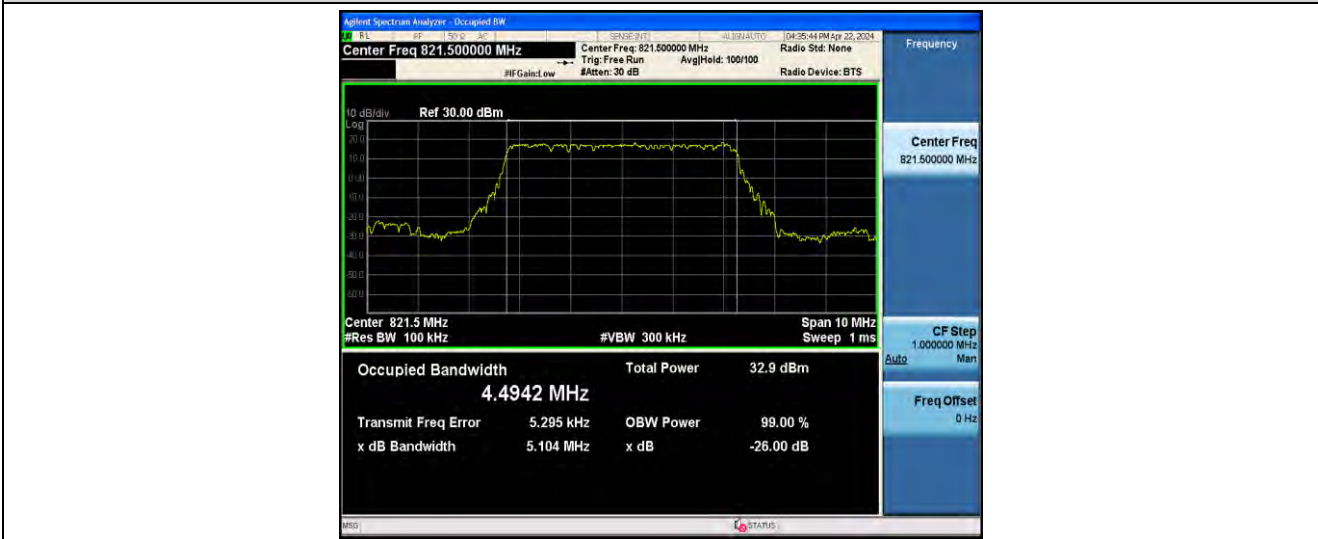


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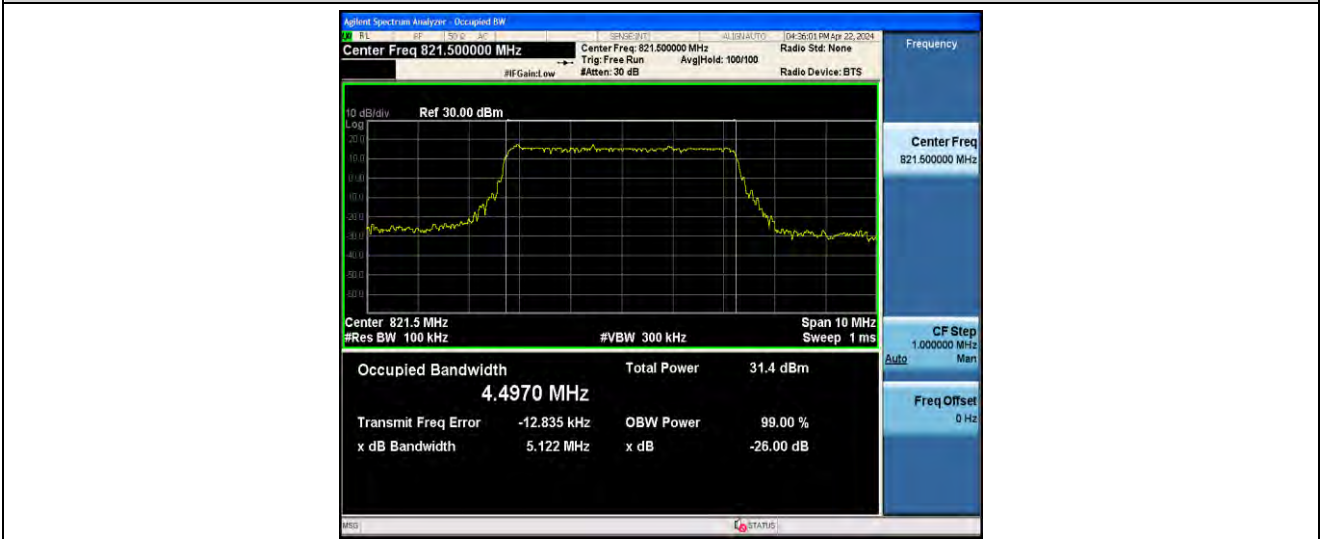


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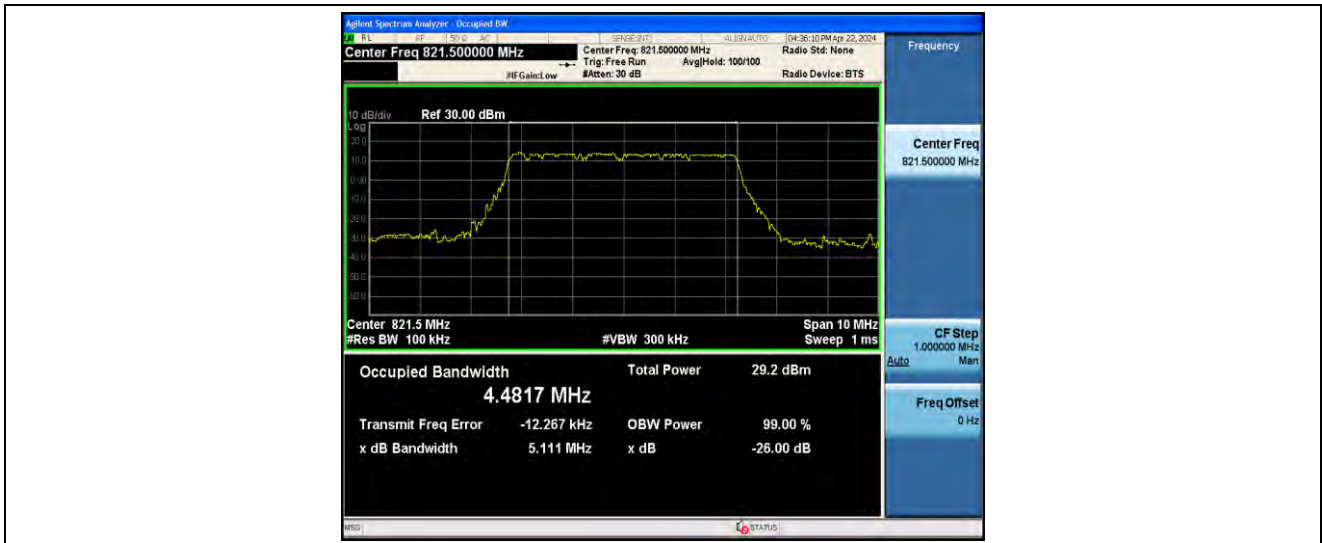
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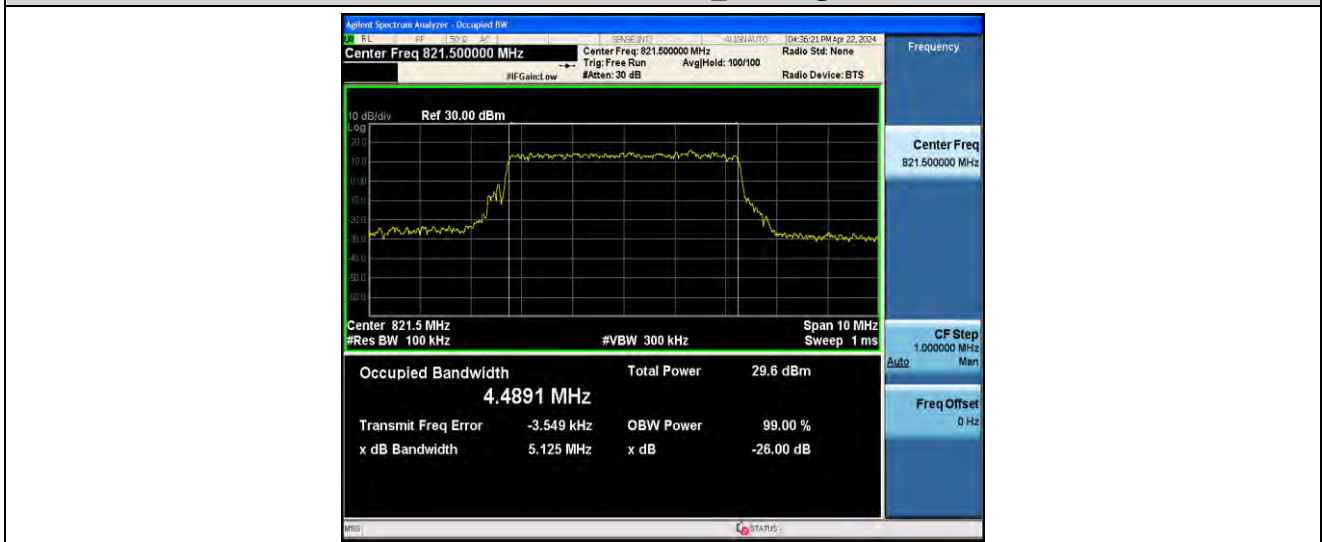


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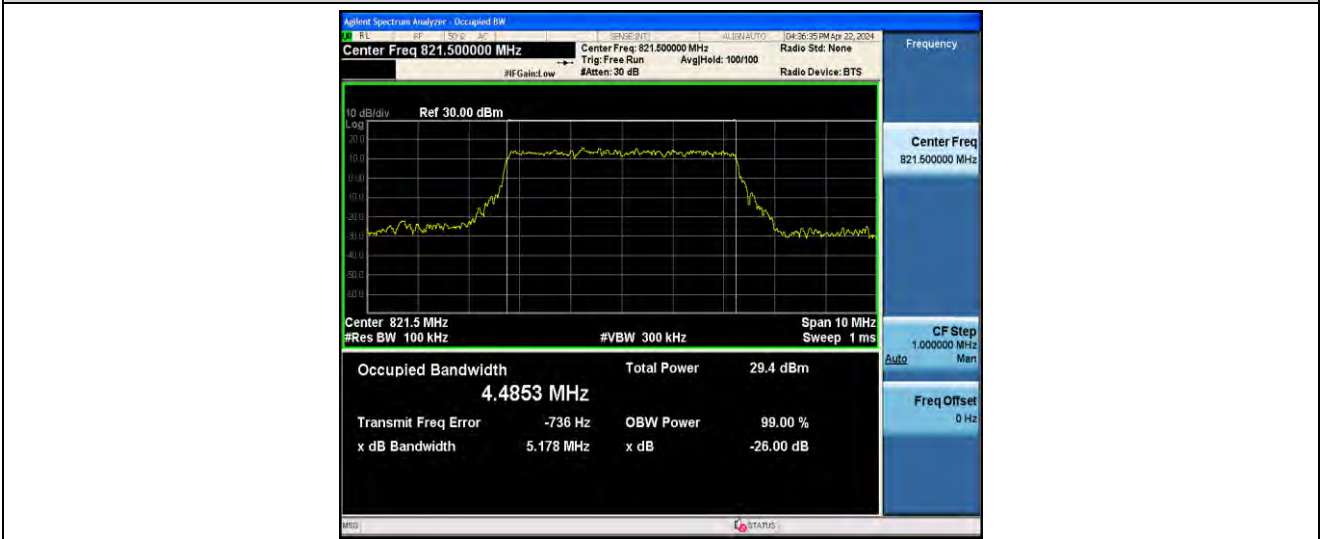


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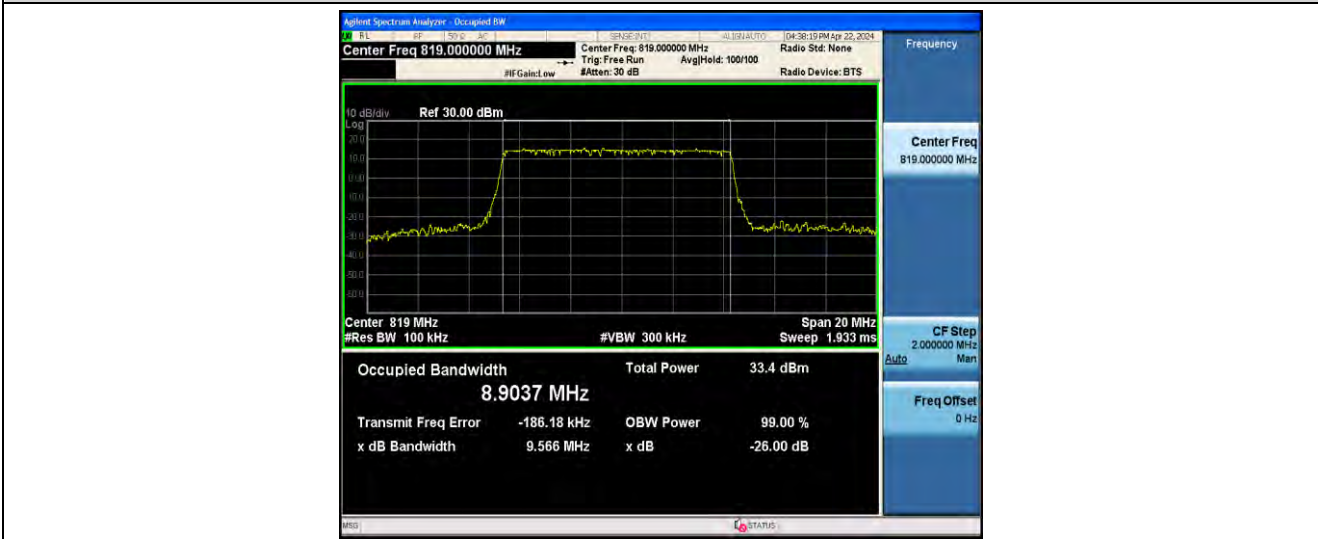


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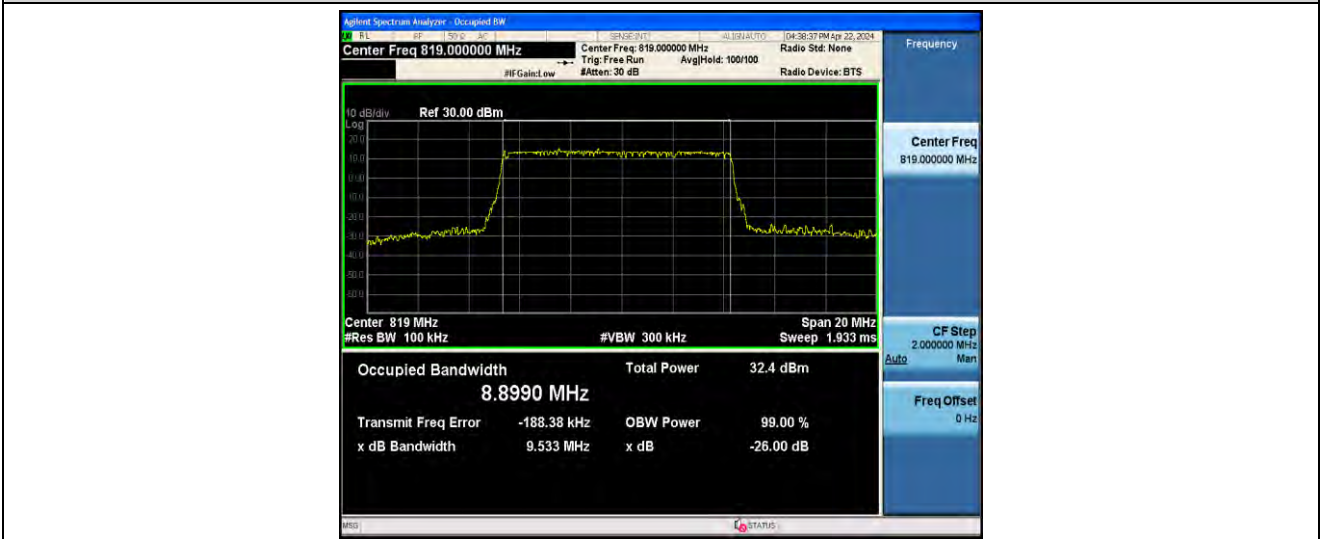


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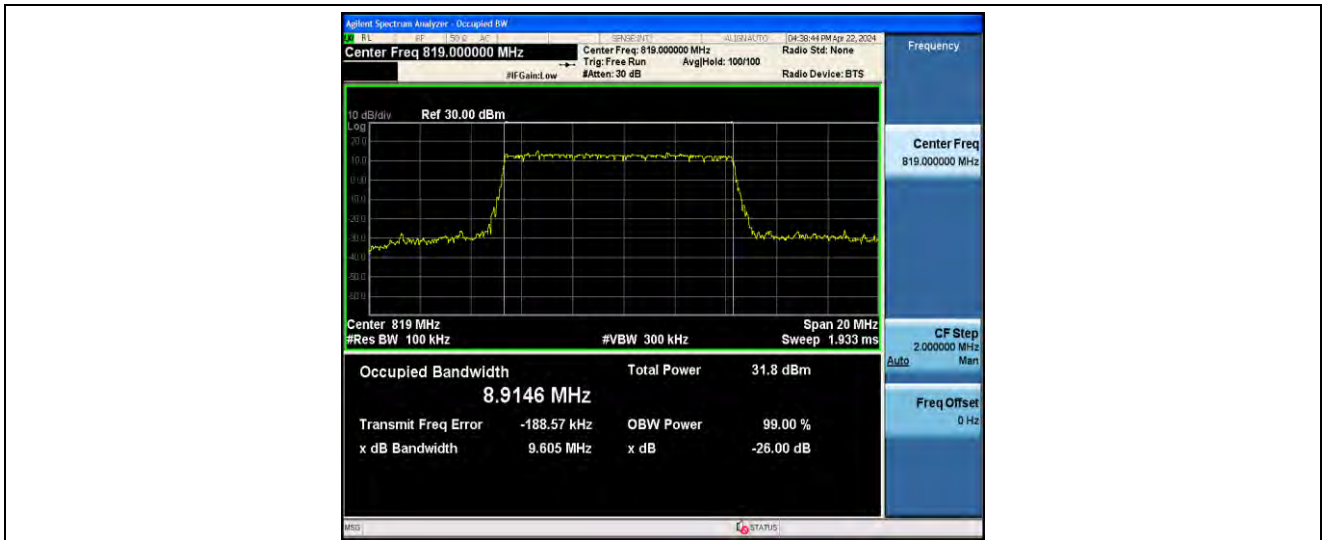
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1-N26-814-824-PC3-15-10-M-4-DFT-64QAM-Outer\_Full-50@0-ANT11-8.9146-9.605-≤10-PASS



1-N26-814-824-PC3-15-10-M-5-DFT-256QAM-Outer\_Full-50@0-ANT11-8.8932-9.596-≤10-PASS



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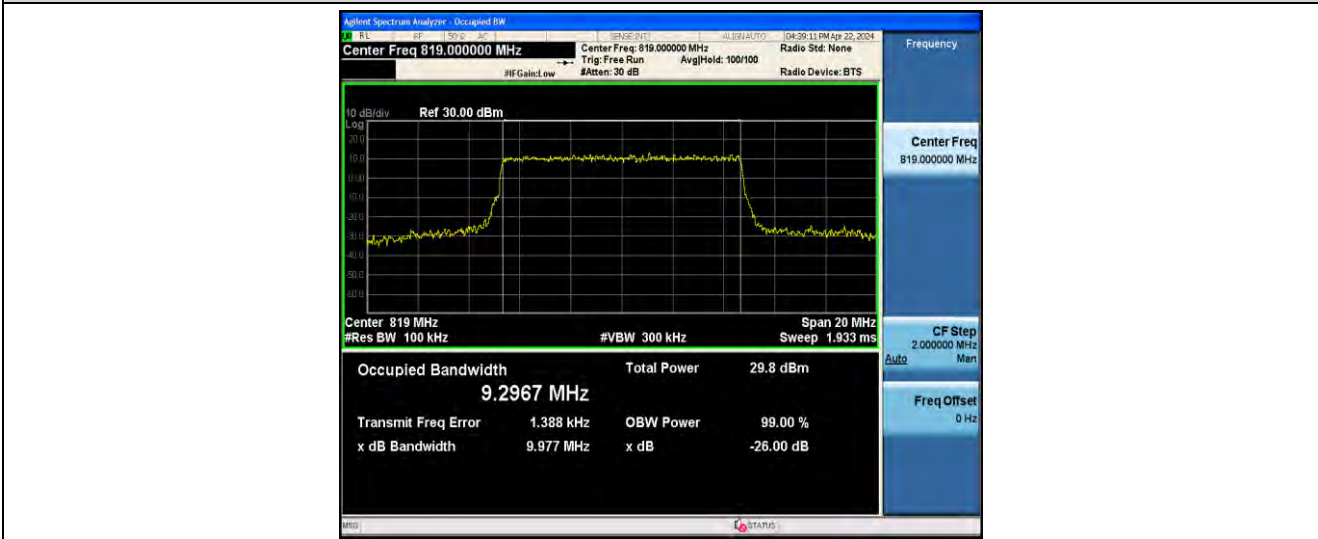


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1-N26-814-824-PC3-15-10-M-6-CP-QPSK-Outer\_Full-52@0-ANT11-9.2829-10.04-≤10-PASS



1-N26-814-824-PC3-15-10-M-7-CP-16QAM-Outer\_Full-52@0-ANT11-9.2967-9.977-≤10-PASS



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1-N26-814-824-PC3-15-10-M-8-CP-64QAM-Outer\_Full-52@0-ANT11-9.2511-9.765-≤10-PASS



1-N26-814-824-PC3-15-10-M-9-CP-256QAM-Outer\_Full-52@0-ANT11-9.2840-9.937-≤10-PASS



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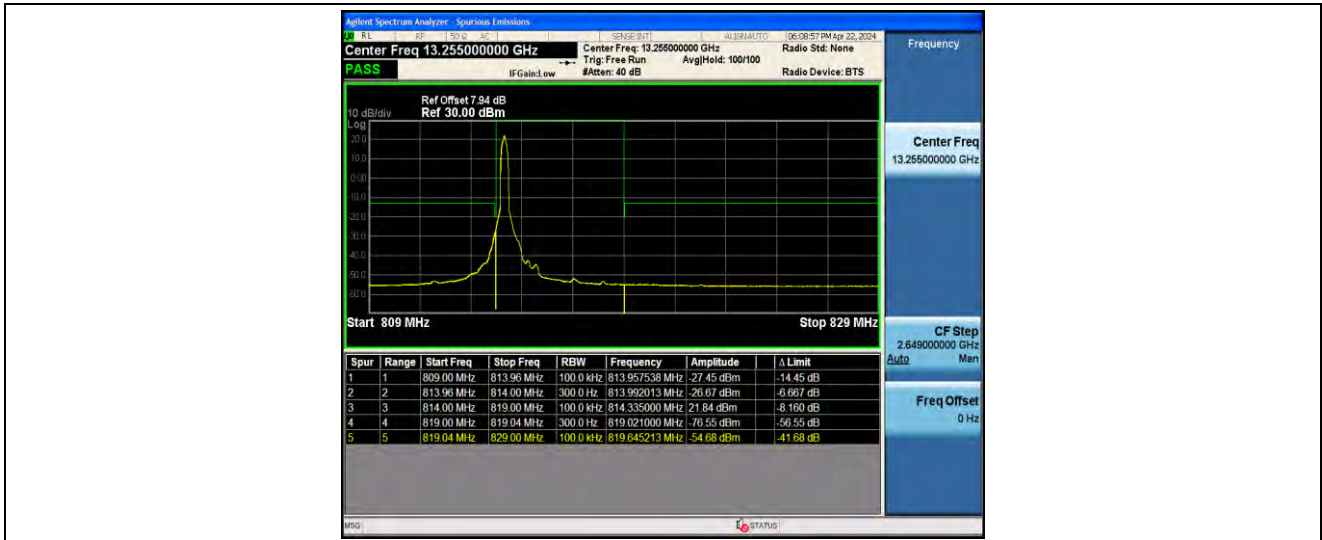


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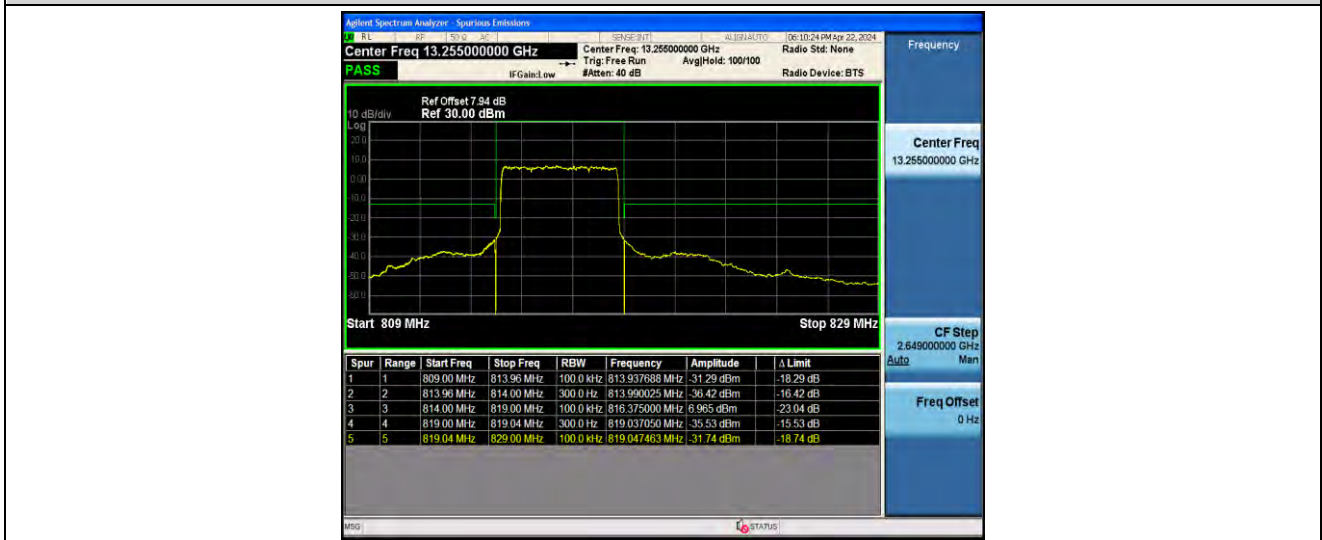
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## Band Edge for SA

### Test Graphs



1-N26-814-824-PC3-15-5-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-ANT11-813.99-6.67--26.67-PASS



1-N26-814-824-PC3-15-5-L-3-DFT-PI2BPSK-Outer\_Full-25@0-ANT11-819.04-15.53--35.53-PASS



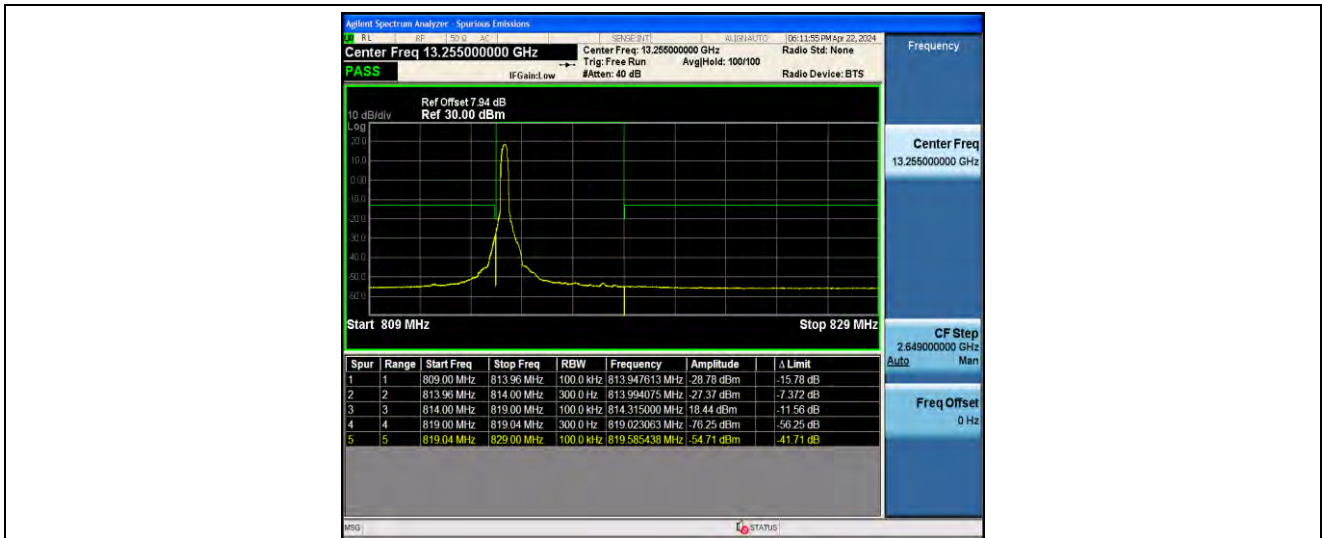
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1-N26-814-824-PC3-15-5-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-ANT11-813.99-7.37--27.37-PASS



1-N26-814-824-PC3-15-5-L-6-CP-QPSK-Outer\_Full-25@0-ANT11-813.96-17.33--30.33-PASS



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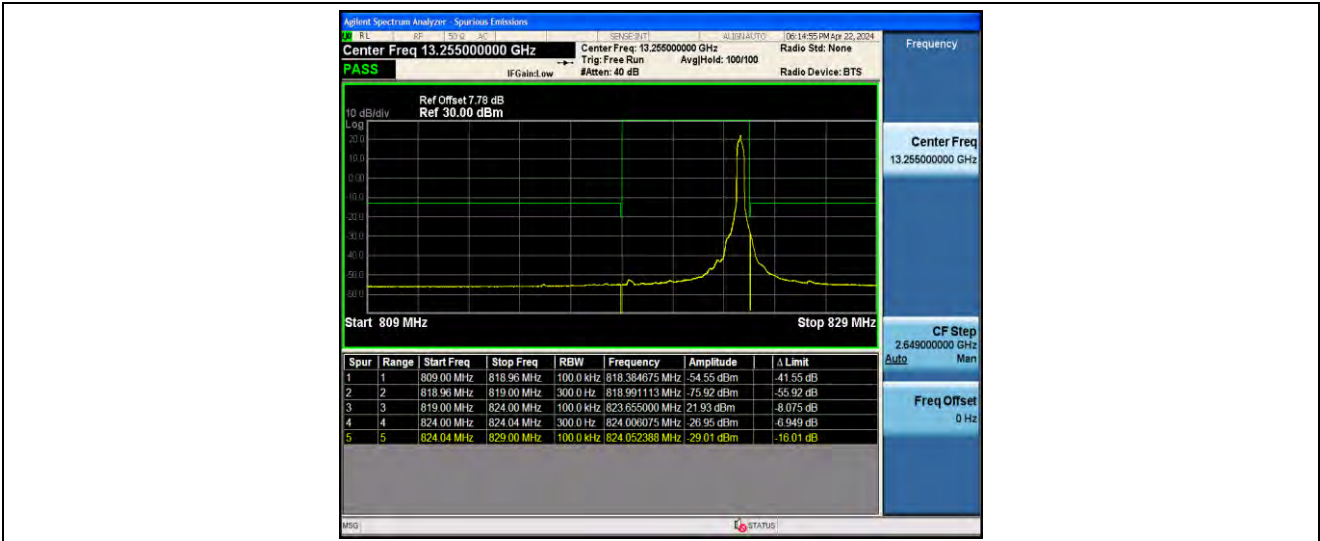
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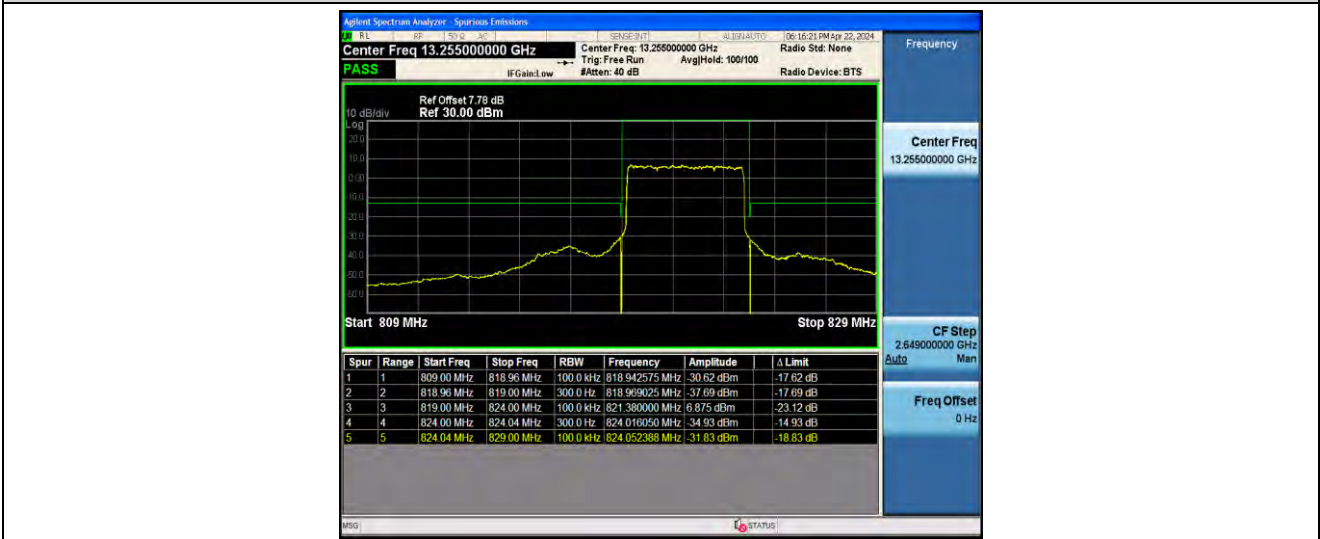


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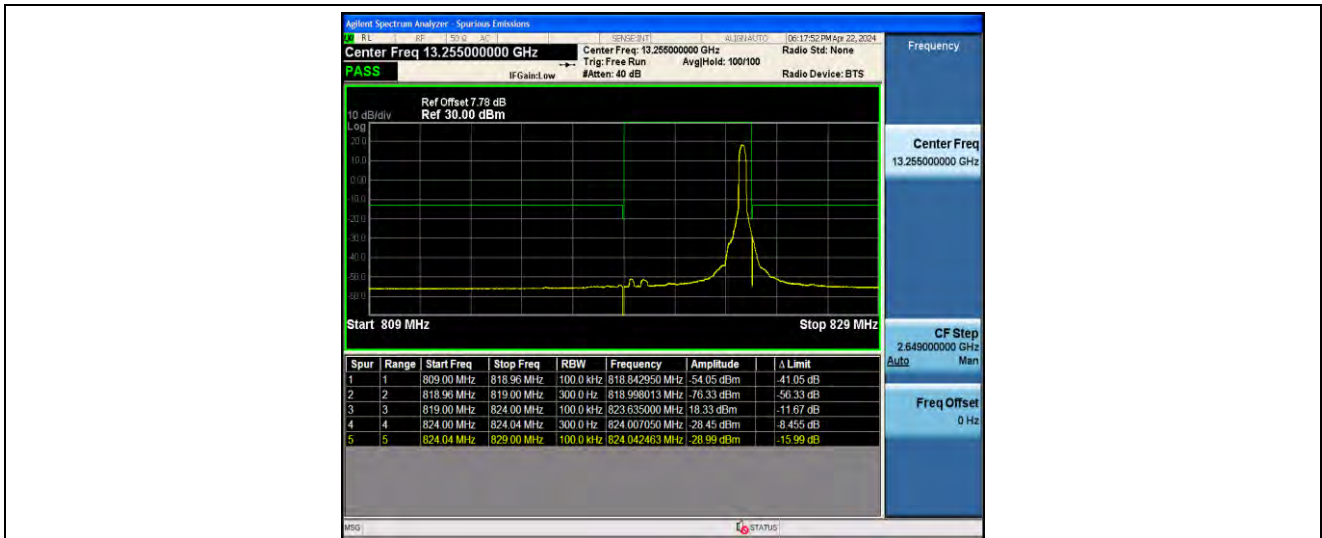
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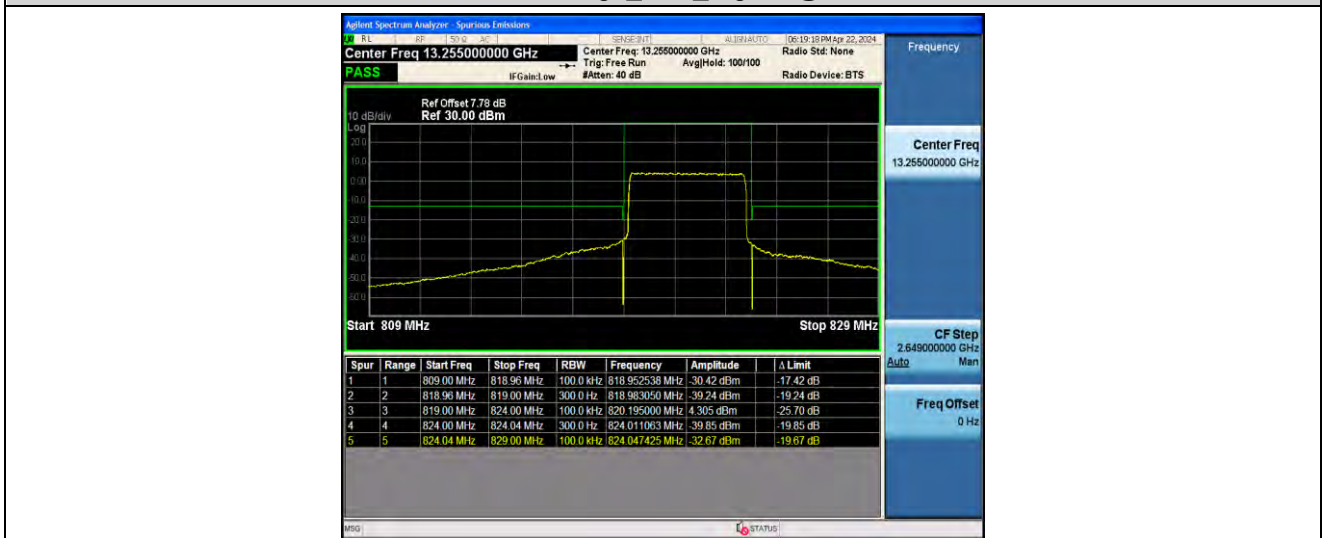


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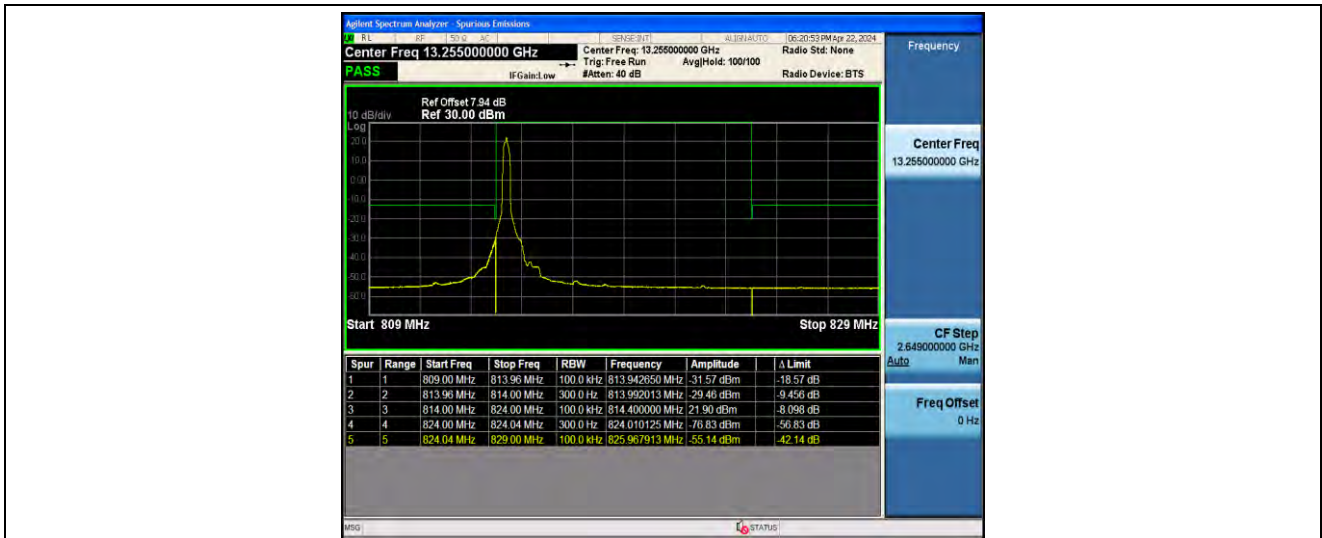
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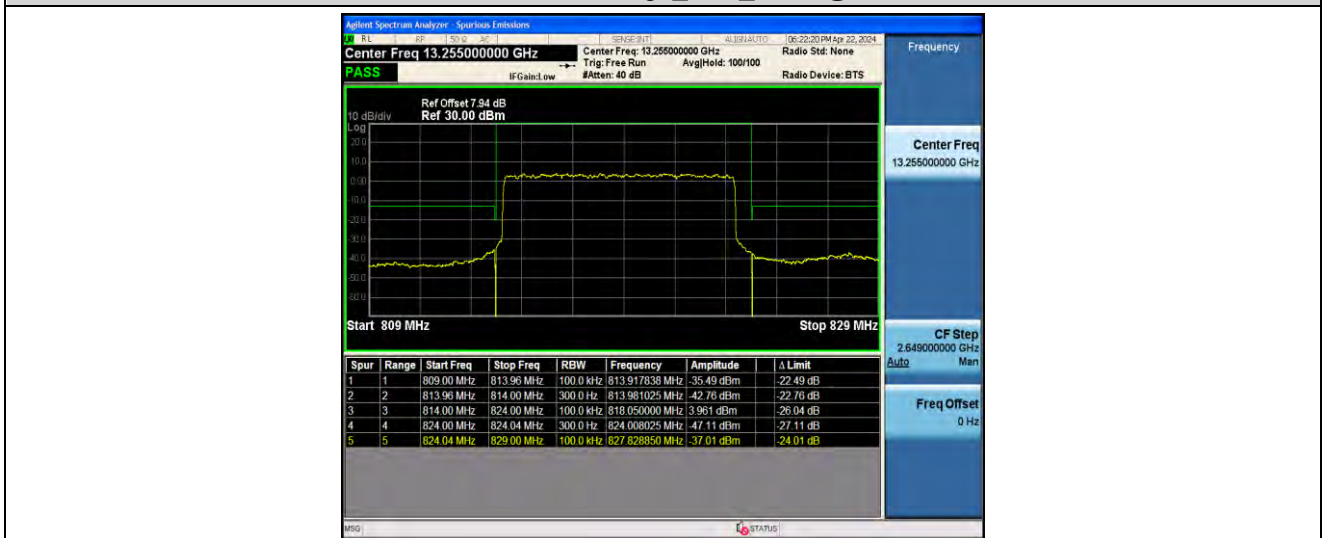


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1-N26-814-824-PC3-15-10-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-ANT11-813.99-9.46--29.46-PASS



1-N26-814-824-PC3-15-10-L-3-DFT-PI2BPSK-Outer\_Full-50@0-ANT11-813.92-22.49--35.49-PASS



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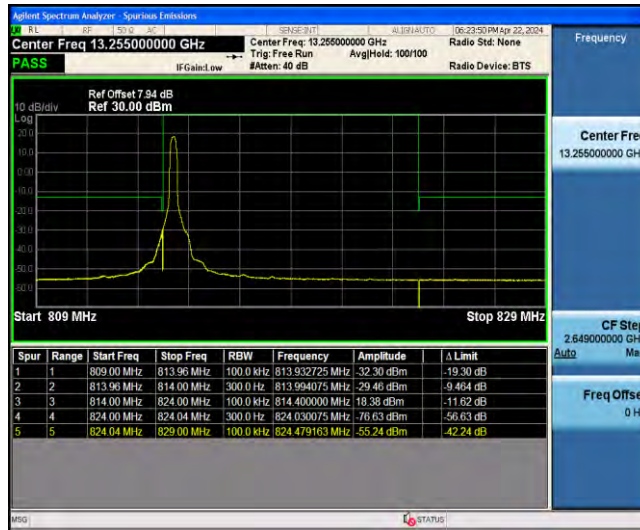
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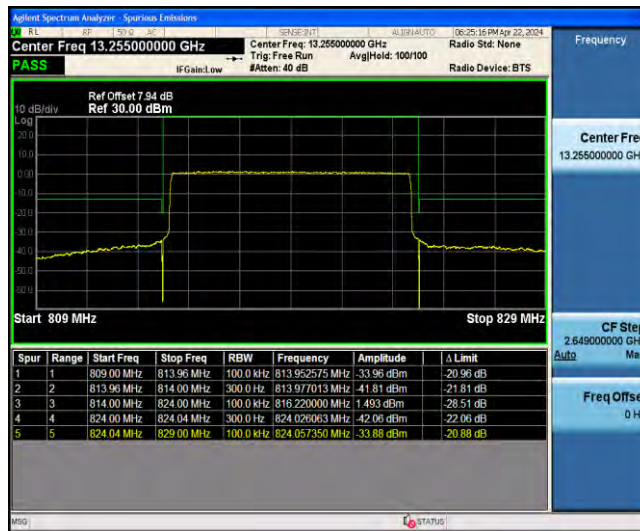


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1-N26-814-824-PC3-15-10-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-ANT11-813.99-9.46--29.46-PASS



1-N26-814-824-PC3-15-10-L-6-CP-QPSK-Outer\_Full-52@0-ANT11-824.06-20.88--33.88-PASS



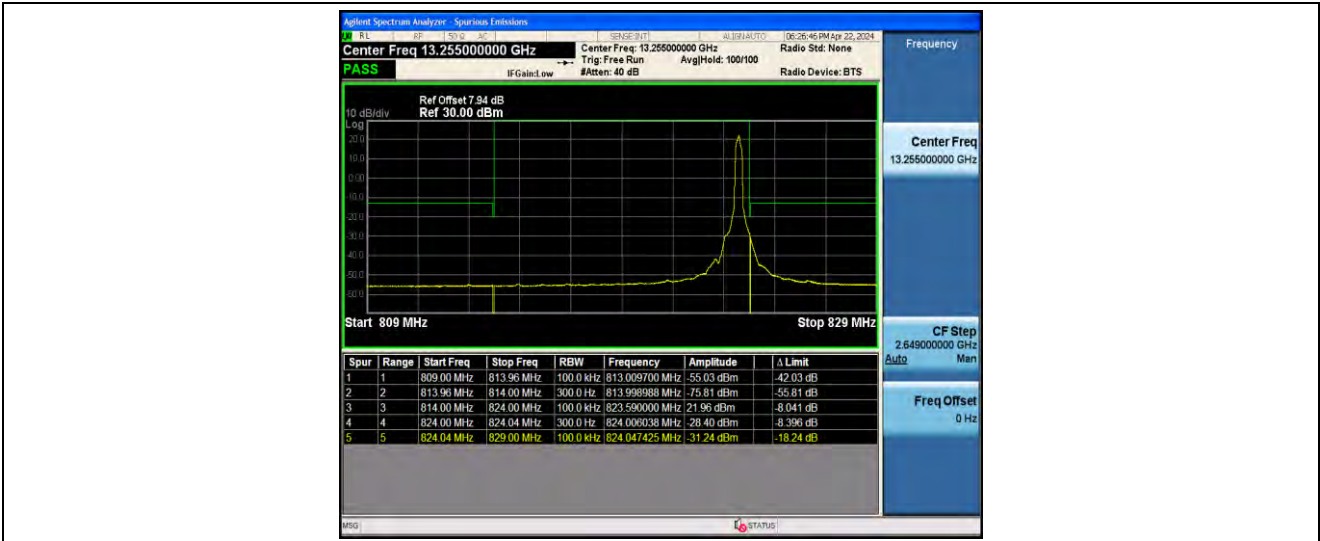
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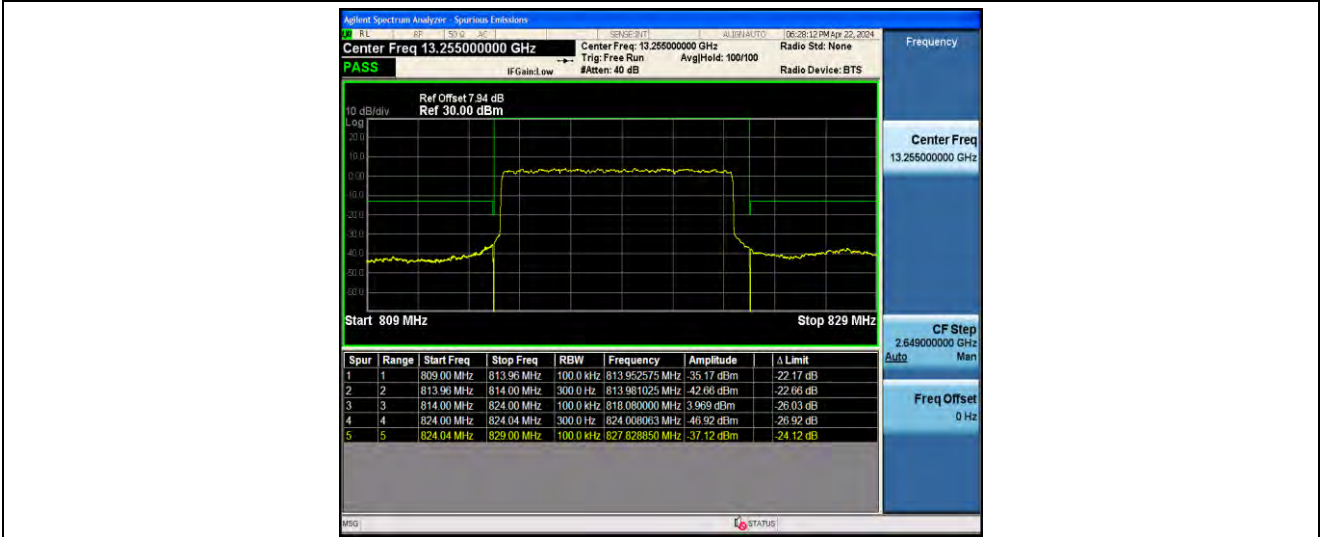


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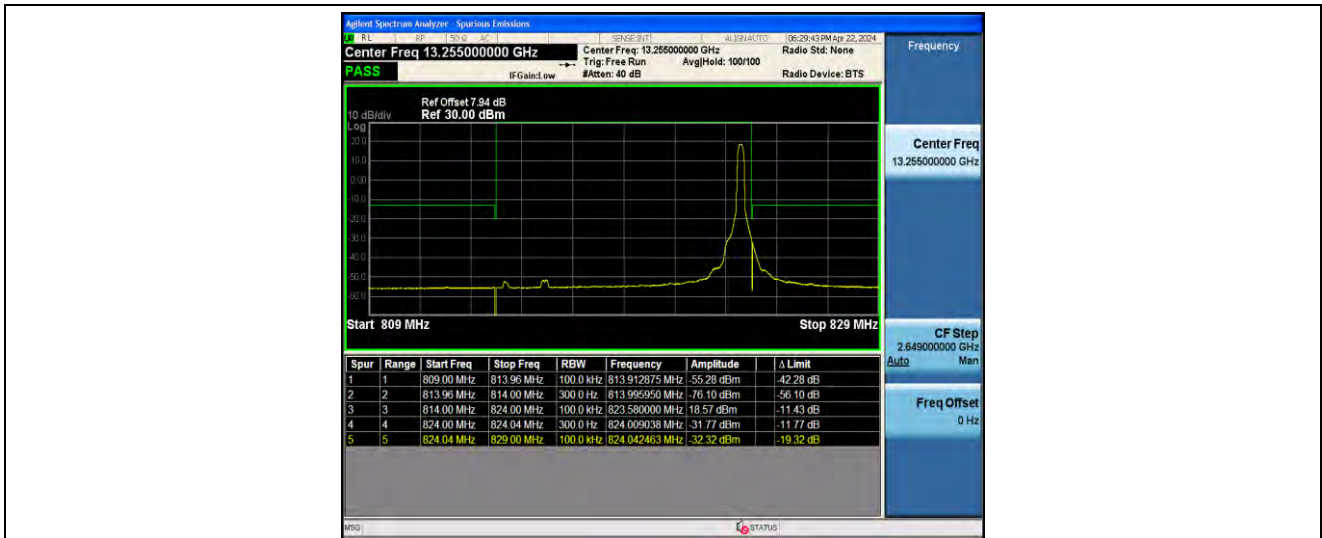
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## Conducted Spurious Emission for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	StartFreq	StopFreq	RB Config	Result	Limit	Verdict
N26-814-824	15	10	DFT-PI2BPSK	M	0.009	0.15	1@1	-64.54	-33	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	0.15	30	1@1	-60.47	-23	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	30	1000	1@1	-53.48	-13	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	1000	3000	1@1	-38.52	-13	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	3000	12000	1@1	-45.17	-13	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	12000	20000	1@1	-42.24	-13	PASS



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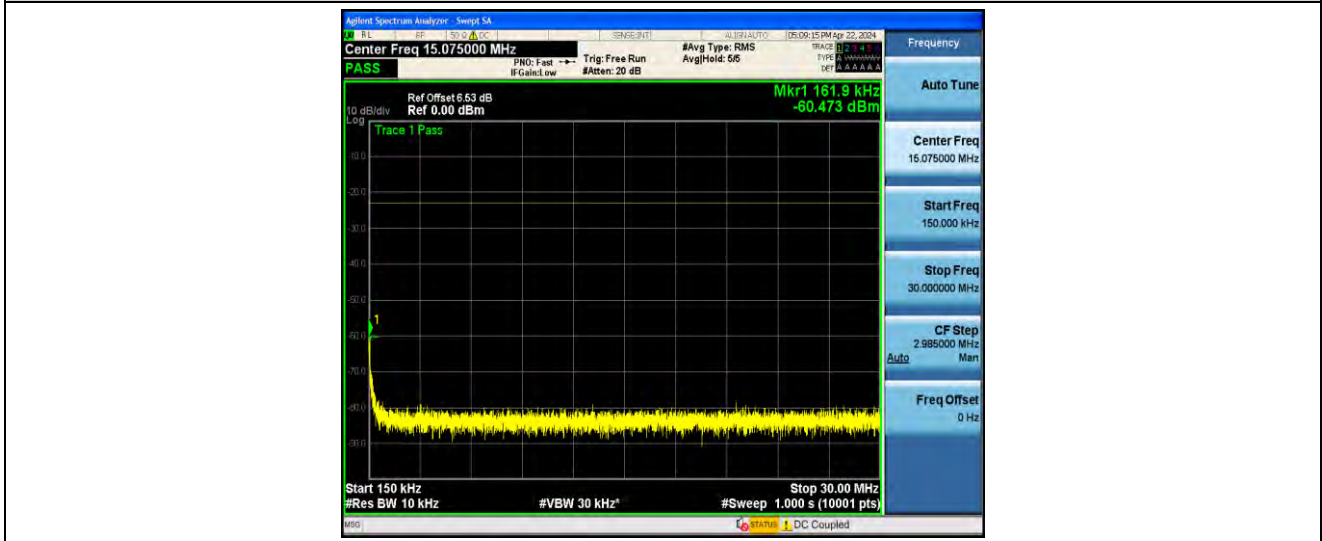
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**Test Graphs**



1-N26-814-824-PC3-15-10-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-ANT11-0.01--64.54-33-PASS



1-N26-814-824-PC3-15-10-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-ANT11-0.16--60.47--23-PASS



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1-N26-814-824-PC3-15-10-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-ANT11-831.80--53.48-13-PASS



1-N26-814-824-PC3-15-10-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-3000-ANT11-2675.20--38.52--13-PASS



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1-N26-814-824-PC3-15-10-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-3000-12000-ANT11-5853.00--4  
 5.17--13-PASS



1-N26-814-824-PC3-15-10-M-1-NS\_01-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-12000-20000-ANT11-18770.80  
 --42.24--13-PASS



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## Field Strength of Spurious Radiation

Test Band = n26\_90S ANT11\_TM1

Test Channel = mid

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1629.0000	48.22	24.86	-48.88	-71.06	-13.00	58.06	Horizontal
2	2443.5000	44.96	27.27	-48.02	-71.05	-13.00	58.05	Horizontal
3	3258.0000	45.62	28.65	-47.25	-68.24	-13.00	55.24	Horizontal
4	4072.5000	45.51	29.60	-47.53	-67.68	-13.00	54.68	Horizontal
5	4887.0000	45.12	31.13	-47.01	-66.02	-13.00	53.02	Horizontal
6	5701.5000	45.10	32.52	-46.87	-64.51	-13.00	51.51	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	AF [dB/m]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1629.0000	45.70	24.86	-48.88	-73.58	-13.00	60.58	Vertical
2	2443.5000	45.20	27.27	-48.02	-70.81	-13.00	57.81	Vertical
3	3258.0000	45.70	28.65	-47.25	-68.16	-13.00	55.16	Vertical
4	4072.5000	45.29	29.60	-47.53	-67.90	-13.00	54.90	Vertical
5	4887.0000	45.07	31.13	-47.01	-66.07	-13.00	53.07	Vertical
6	5701.5000	45.28	32.52	-46.87	-64.33	-13.00	51.33	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 (Vdc)	Temperature (°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N26-814-824	15	10	DFT-PI2BPSK	M	50@0	VH	NT	-5.40	-0.01	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	50@0	VN	NT	-4.20	-0.01	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	50@0	VL	NT	-4.10	-0.01	PASS
N26-814-824	15	10	CP-QPSK	M	52@0	VH	NT	-4.30	-0.01	PASS
N26-814-824	15	10	CP-QPSK	M	52@0	VN	NT	-3.80	0.00	PASS
N26-814-824	15	10	CP-QPSK	M	52@0	VL	NT	-2.30	0.00	PASS



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## Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage (Vdc)	Temperature (°C)	Deviation(Hz)	Deviation (ppm)	Verdict
N26-814-824	15	10	DFT-PI2BPSK	M	50@0	NV	50	-5.600000	-0.006838	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	50@0	NV	-20	-6.400000	-0.007814	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	50@0	NV	-10	-5.200000	-0.006349	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	50@0	NV	0	-7.200000	-0.008791	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	50@0	NV	10	-4.500000	-0.005495	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	50@0	NV	20	-3.500000	-0.004274	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	50@0	NV	30	-3.000000	-0.003663	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	50@0	NV	-30	-3.200000	-0.003907	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	50@0	NV	40	-2.400000	-0.002930	PASS
N26-814-824	15	10	CP-QPSK	M	52@0	NV	50	-2.700000	-0.003297	PASS
N26-814-824	15	10	CP-QPSK	M	52@0	NV	-20	-7.500000	-0.009158	PASS
N26-814-824	15	10	CP-QPSK	M	52@0	NV	-10	-2.500000	-0.003053	PASS
N26-814-824	15	10	CP-QPSK	M	52@0	NV	0	-3.200000	-0.003907	PASS
N26-814-824	15	10	CP-QPSK	M	52@0	NV	10	-6.900000	-0.008425	PASS
N26-814-824	15	10	CP-QPSK	M	52@0	NV	20	-3.300000	-0.004029	PASS
N26-814-824	15	10	CP-QPSK	M	52@0	NV	30	-1.800000	-0.002198	PASS
N26-814-824	15	10	CP-QPSK	M	52@0	NV	40	-2.700000	-0.003297	PASS
N26-814-824	15	10	CP-QPSK	M	52@0	NV	-30	-1.100000	-0.001343	PASS

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