

# Appendix B.19

## NR Band n26(814-824)



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## Transmitter Conducted Power Output for SA

### Test Result

#### ANT1

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	Limit	Verdict
N26-814-824	15	5	DFT-QPSK	L	Inner_1RB_Left	24.03	50.00	PASS
N26-814-824	15	5	DFT-16QAM	L	Inner_1RB_Left	23.39	50.00	PASS
N26-814-824	15	5	DFT-QPSK	M	Inner_1RB_Left	24.04	50.00	PASS
N26-814-824	15	5	DFT-16QAM	M	Inner_1RB_Left	23.31	50.00	PASS
N26-814-824	15	5	DFT-QPSK	H	Inner_1RB_Left	24.12	50.00	PASS
N26-814-824	15	5	DFT-16QAM	H	Inner_1RB_Left	23.14	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	L	Inner_1RB_Left	24.25	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	L	Inner_1RB_Right	24.13	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	L	Outer_Full	23.76	50.00	PASS
N26-814-824	15	10	DFT-QPSK	L	Inner_1RB_Left	24.52	50.00	PASS
N26-814-824	15	10	DFT-QPSK	L	Inner_1RB_Right	24.28	50.00	PASS
N26-814-824	15	10	DFT-QPSK	L	Outer_Full	23.21	50.00	PASS
N26-814-824	15	10	DFT-16QAM	L	Inner_1RB_Left	23.31	50.00	PASS
N26-814-824	15	10	DFT-16QAM	L	Inner_1RB_Right	23.32	50.00	PASS
N26-814-824	15	10	DFT-16QAM	L	Outer_Full	22.54	50.00	PASS
N26-814-824	15	10	DFT-64QAM	L	Inner_1RB_Left	21.62	50.00	PASS
N26-814-824	15	10	DFT-64QAM	L	Inner_1RB_Right	21.48	50.00	PASS
N26-814-824	15	10	DFT-64QAM	L	Outer_Full	22.04	50.00	PASS
N26-814-824	15	10	DFT-256QAM	L	Inner_1RB_Left	19.83	50.00	PASS
N26-814-824	15	10	DFT-256QAM	L	Inner_1RB_Right	19.93	50.00	PASS
N26-814-824	15	10	DFT-256QAM	L	Outer_Full	19.86	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Inner_1RB_Left	24.05	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Inner_1RB_Right	24.10	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	23.66	50.00	PASS
N26-814-824	15	10	DFT-QPSK	M	Inner_1RB_Left	24.23	50.00	PASS
N26-814-824	15	10	DFT-QPSK	M	Inner_1RB_Right	24.37	50.00	PASS
N26-814-824	15	10	DFT-QPSK	M	Outer_Full	23.24	50.00	PASS
N26-814-824	15	10	DFT-16QAM	M	Inner_1RB_Left	23.50	50.00	PASS
N26-814-824	15	10	DFT-16QAM	M	Inner_1RB_Right	23.22	50.00	PASS



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N26-814-824	15	10	DFT-16QAM	M	Outer_Full	22.42	50.00	PASS
N26-814-824	15	10	DFT-64QAM	M	Inner_1RB_Left	21.73	50.00	PASS
N26-814-824	15	10	DFT-64QAM	M	Inner_1RB_Right	21.53	50.00	PASS
N26-814-824	15	10	DFT-64QAM	M	Outer_Full	21.97	50.00	PASS
N26-814-824	15	10	DFT-256QAM	M	Inner_1RB_Left	19.97	50.00	PASS
N26-814-824	15	10	DFT-256QAM	M	Inner_1RB_Right	19.92	50.00	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	19.97	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	H	Inner_1RB_Left	24.06	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	H	Inner_1RB_Right	23.98	50.00	PASS
N26-814-824	15	10	DFT-PI2BPSK	H	Outer_Full	23.65	50.00	PASS
N26-814-824	15	10	DFT-QPSK	H	Inner_1RB_Left	24.33	50.00	PASS
N26-814-824	15	10	DFT-QPSK	H	Inner_1RB_Right	24.19	50.00	PASS
N26-814-824	15	10	DFT-QPSK	H	Outer_Full	23.07	50.00	PASS
N26-814-824	15	10	DFT-16QAM	H	Inner_1RB_Left	23.43	50.00	PASS
N26-814-824	15	10	DFT-16QAM	H	Inner_1RB_Right	23.23	50.00	PASS
N26-814-824	15	10	DFT-16QAM	H	Outer_Full	22.45	50.00	PASS
N26-814-824	15	10	DFT-64QAM	H	Inner_1RB_Left	21.69	50.00	PASS
N26-814-824	15	10	DFT-64QAM	H	Inner_1RB_Right	21.51	50.00	PASS
N26-814-824	15	10	DFT-64QAM	H	Outer_Full	21.85	50.00	PASS
N26-814-824	15	10	DFT-256QAM	H	Inner_1RB_Left	19.98	50.00	PASS
N26-814-824	15	10	DFT-256QAM	H	Inner_1RB_Right	19.95	50.00	PASS
N26-814-824	15	10	DFT-256QAM	H	Outer_Full	19.93	50.00	PASS



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## Peak-to-Average Ratio for SA

### Test Result

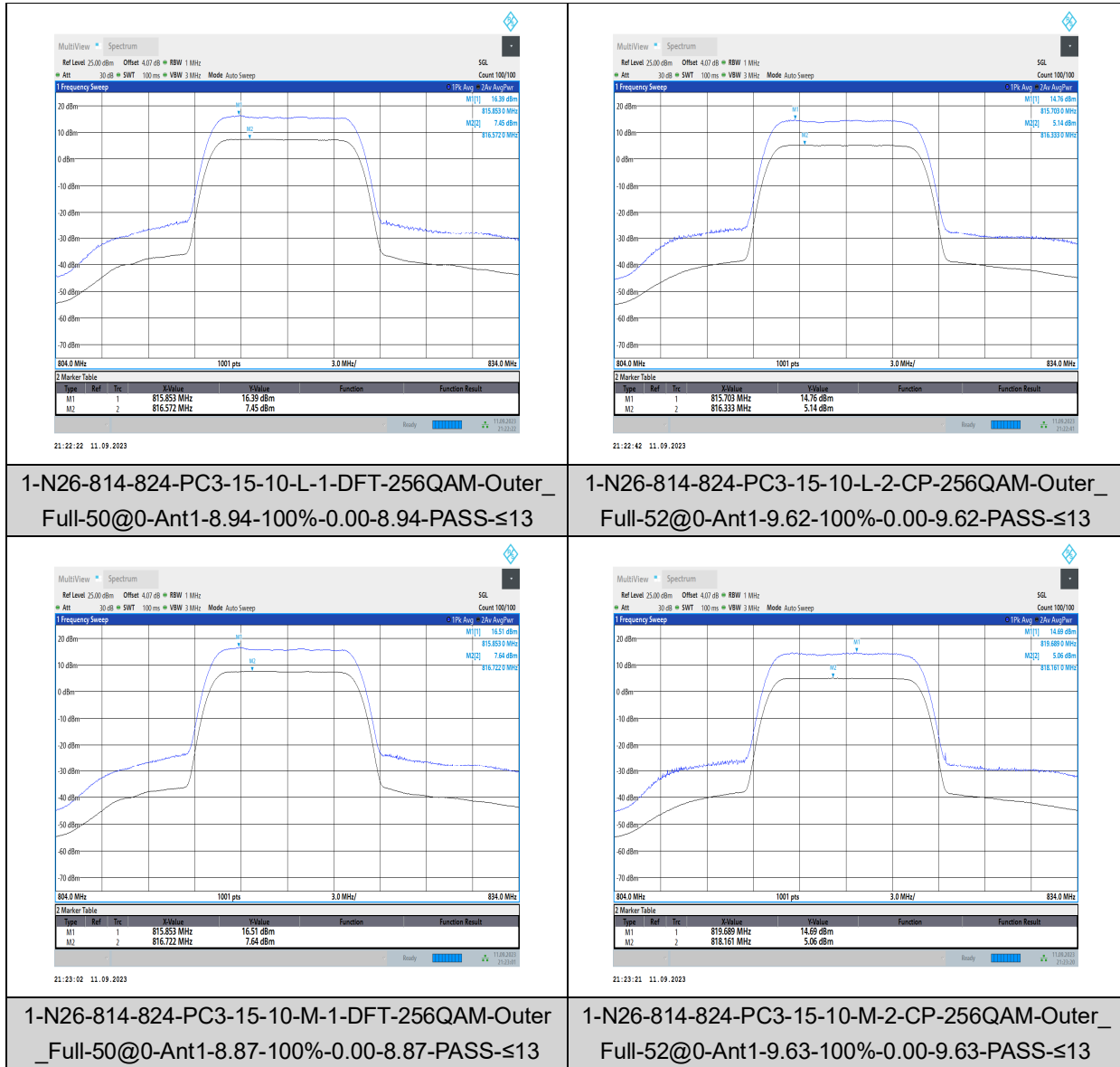
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N26-814-824	15	10	DFT-256QAM	L	Outer_Full	8.94	≤13	PASS
N26-814-824	15	10	CP-256QAM	L	Outer_Full	9.62	≤13	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	8.87	≤13	PASS
N26-814-824	15	10	CP-256QAM	M	Outer_Full	9.63	≤13	PASS
N26-814-824	15	10	DFT-256QAM	H	Outer_Full	8.95	≤13	PASS
N26-814-824	15	10	CP-256QAM	H	Outer_Full	9.74	≤13	PASS



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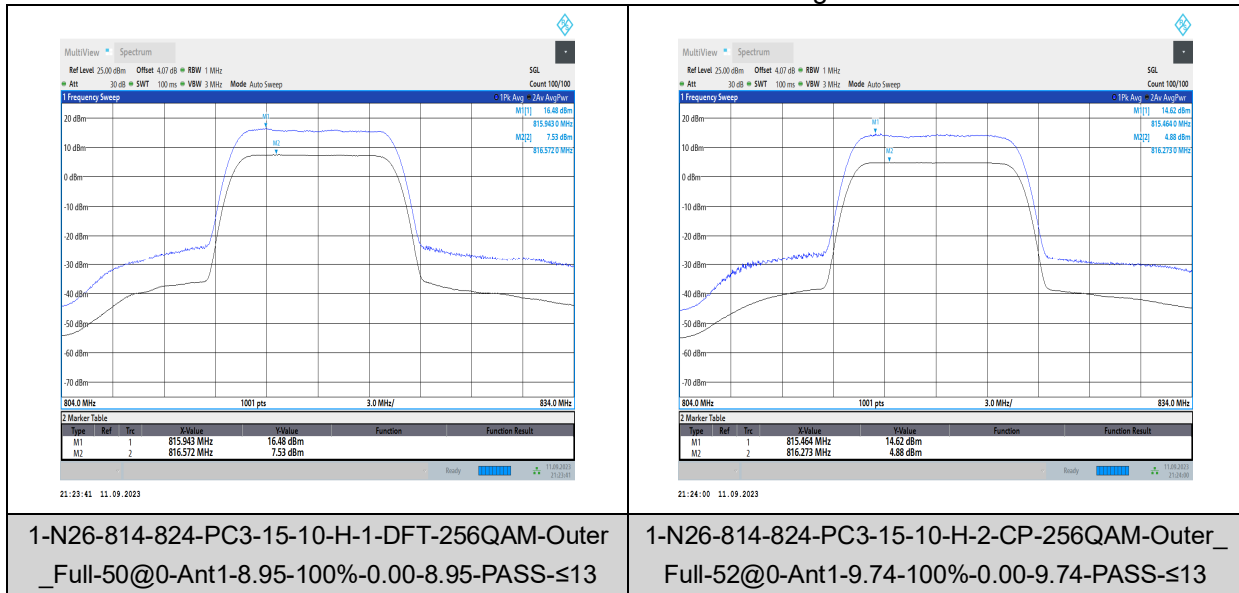
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Test Graphs



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1-N26-814-824-PC3-15-10-H-1-DFT-256QAM-Outer\_Full-50@0-Ant1-8.95-100%-0.00-8.95-PASS- $\leq 13$

1-N26-814-824-PC3-15-10-H-2-CP-256QAM-Outer\_Full-52@0-Ant1-9.74-100%-0.00-9.74-PASS- $\leq 13$



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## 26dB Bandwidth and Occupied Bandwidth for SA

### Test Result

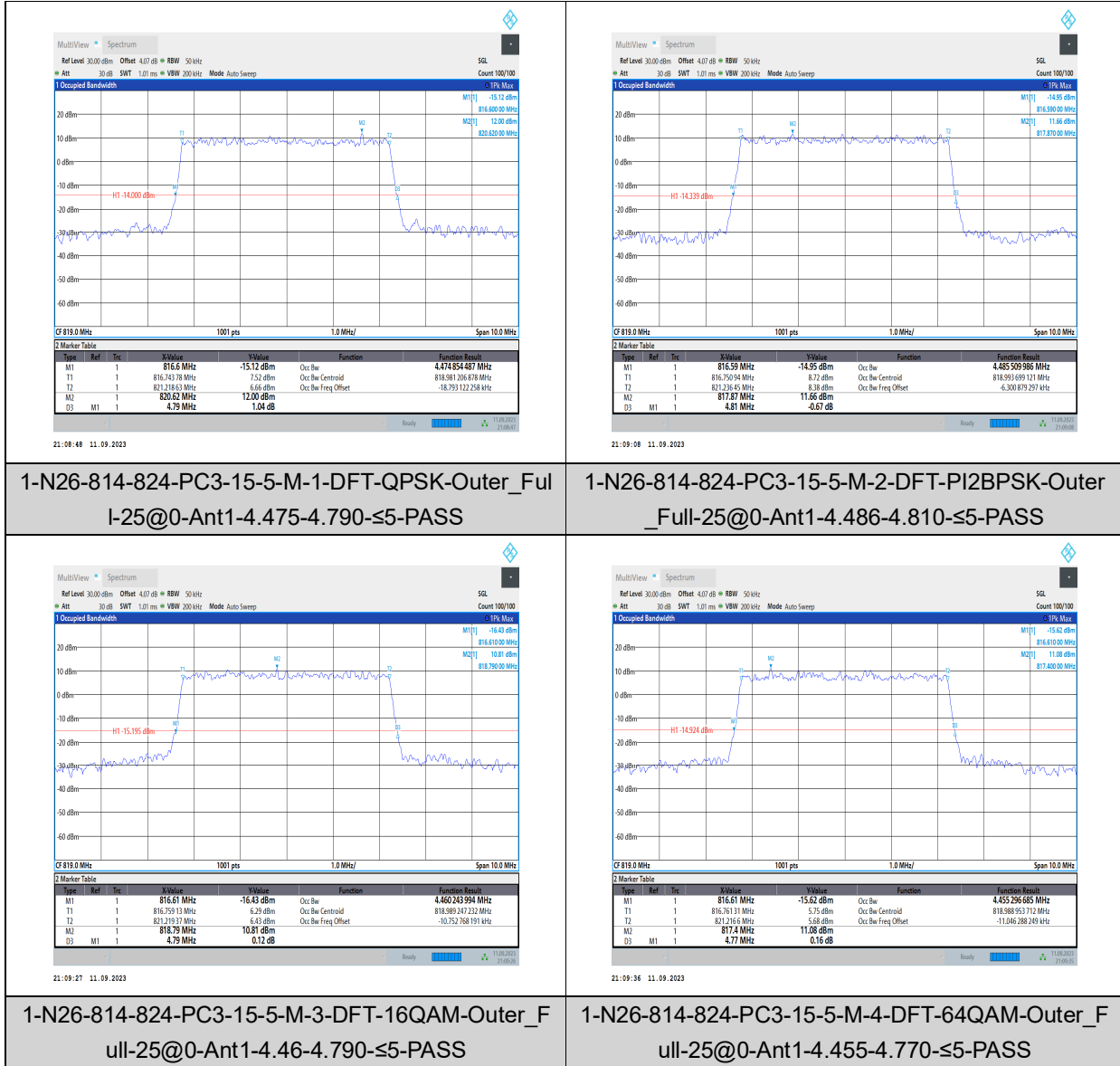
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N26-814-824	15	5	DFT-QPSK	M	Outer_Full	4.475	4.790	PASS
N26-814-824	15	5	DFT-PI2BPSK	M	Outer_Full	4.486	4.810	PASS
N26-814-824	15	5	DFT-16QAM	M	Outer_Full	4.46	4.790	PASS
N26-814-824	15	5	DFT-64QAM	M	Outer_Full	4.455	4.770	PASS
N26-814-824	15	5	DFT-256QAM	M	Outer_Full	4.478	4.850	PASS
N26-814-824	15	5	CP-QPSK	M	Outer_Full	4.482	4.990	PASS
N26-814-824	15	5	CP-16QAM	M	Outer_Full	4.465	4.810	PASS
N26-814-824	15	5	CP-64QAM	M	Outer_Full	4.472	4.940	PASS
N26-814-824	15	5	CP-256QAM	M	Outer_Full	4.468	4.770	PASS
N26-814-824	15	10	DFT-QPSK	M	Outer_Full	8.903	9.360	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	8.928	9.400	PASS
N26-814-824	15	10	DFT-16QAM	M	Outer_Full	8.931	9.360	PASS
N26-814-824	15	10	DFT-64QAM	M	Outer_Full	8.902	9.360	PASS
N26-814-824	15	10	DFT-256QAM	M	Outer_Full	8.909	9.320	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	9.305	9.680	PASS
N26-814-824	15	10	CP-16QAM	M	Outer_Full	9.308	9.760	PASS
N26-814-824	15	10	CP-64QAM	M	Outer_Full	9.299	9.780	PASS
N26-814-824	15	10	CP-256QAM	M	Outer_Full	9.273	9.780	PASS



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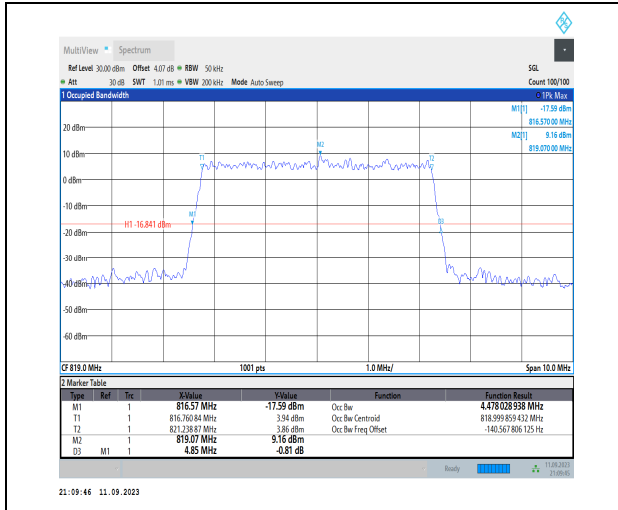
Test Graphs



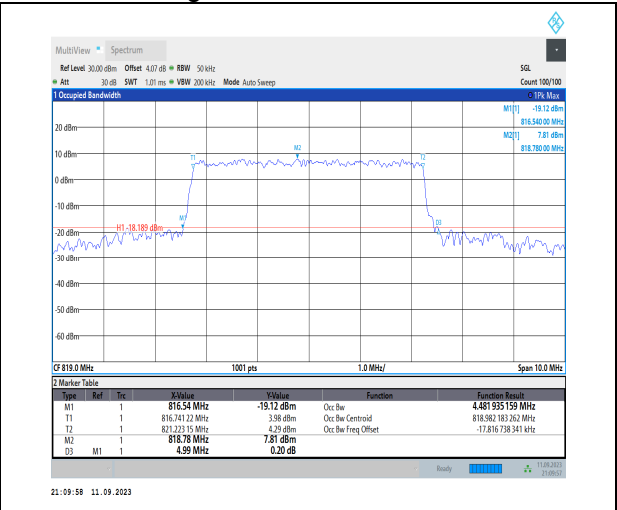
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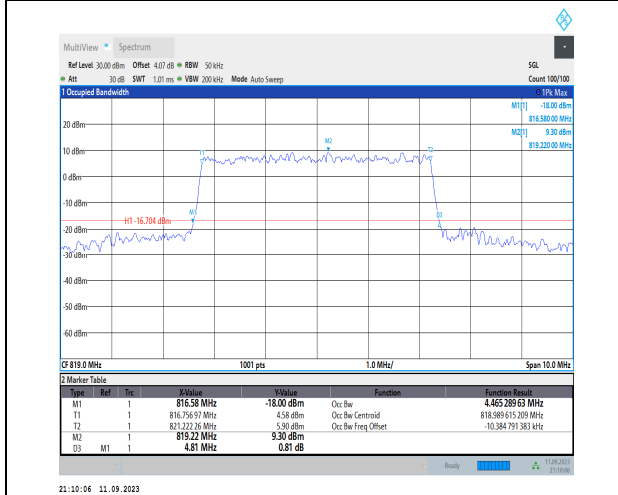




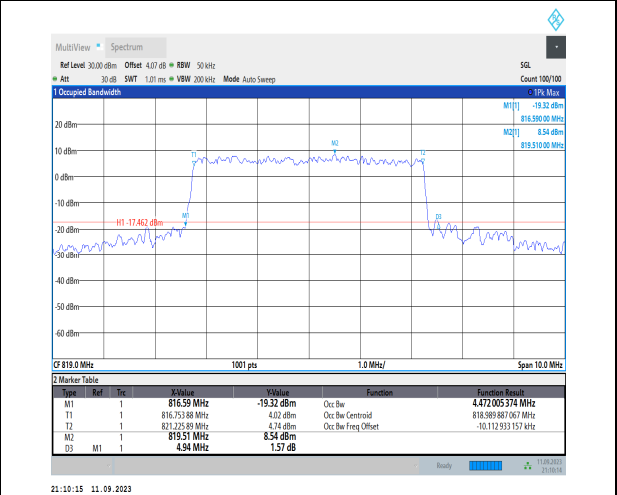
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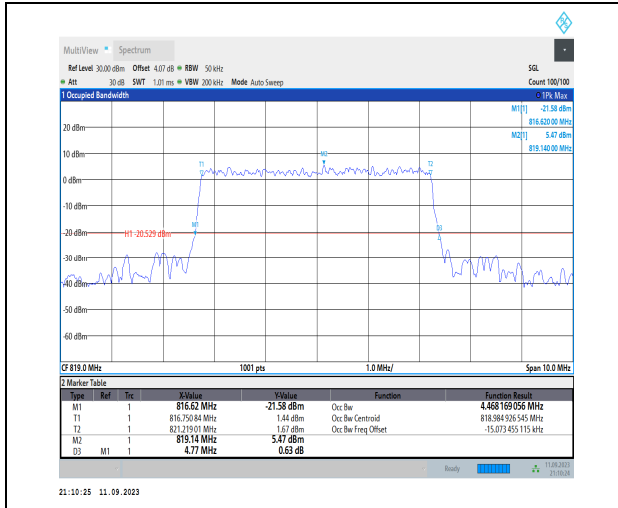


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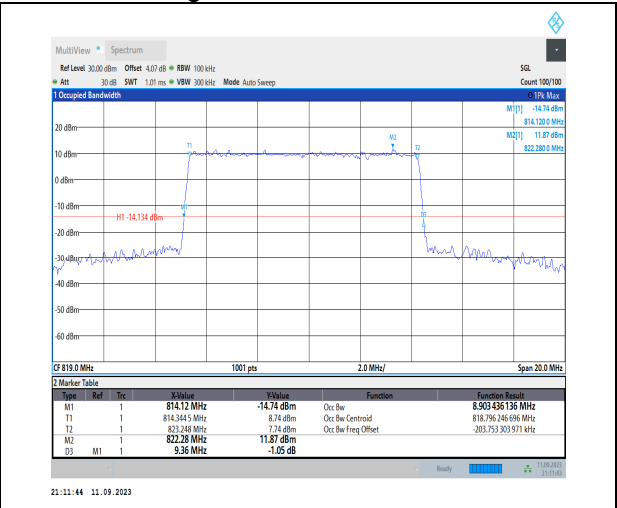


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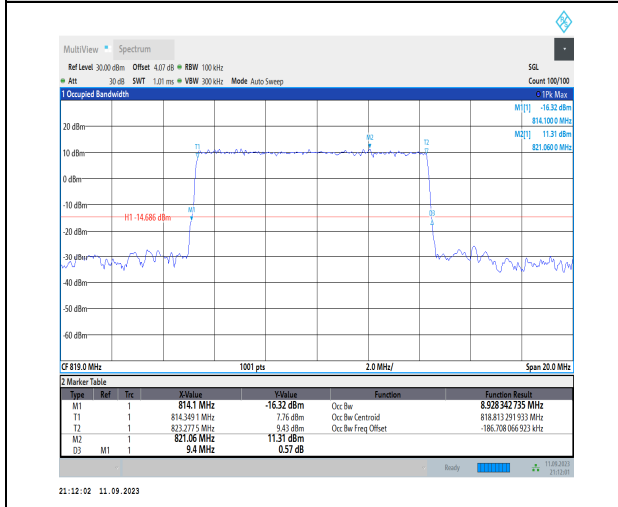
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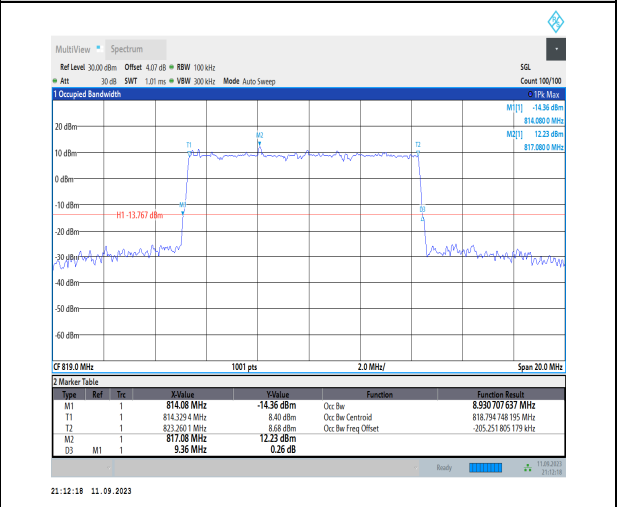
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1-N26-814-824-PC3-15-10-M-1-DFT-QPSK-Outer\_F ull-50@0-Ant1-8.903-9.360-<math>\leq</math>10-PASS



1-N26-814-824-PC3-15-10-M-2-DFT-PI2BPSK-Outer\_F ull-50@0-Ant1-8.928-9.400-<math>\leq</math>10-PASS



1-N26-814-824-PC3-15-10-M-3-DFT-16QAM-Outer\_F ull-50@0-Ant1-8.931-9.360-<math>\leq</math>10-PASS

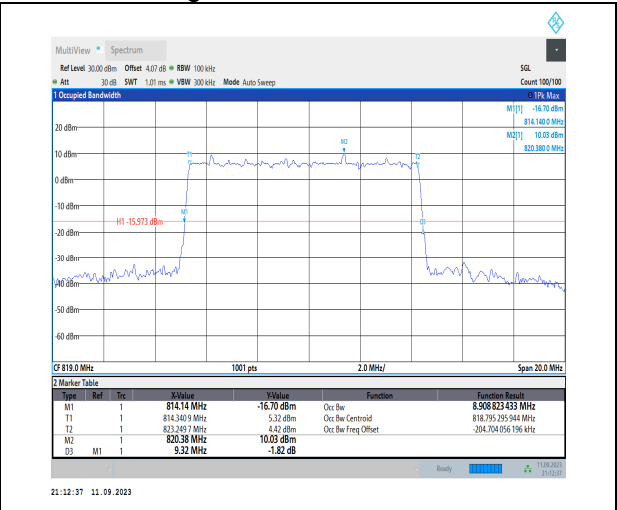


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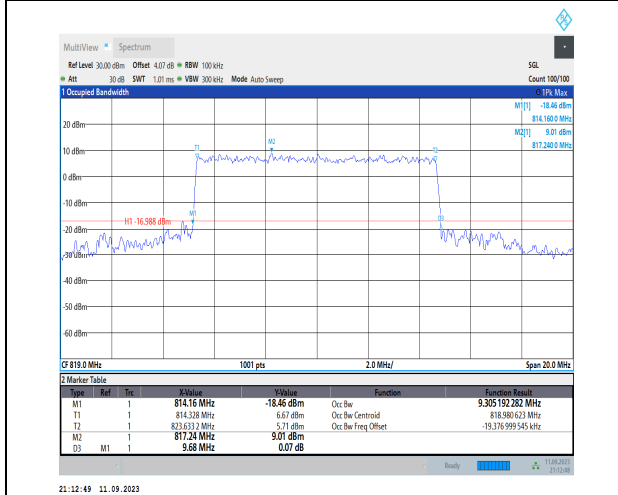
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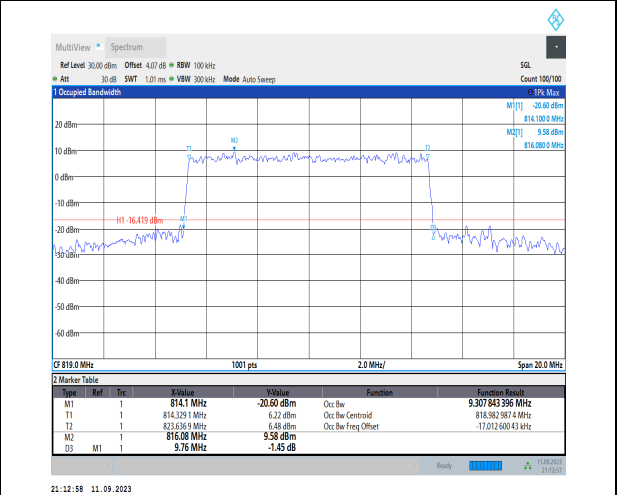
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1-N26-814-824-PC3-15-10-M-5-DFT-256QAM-Outer\_Full-50@0-Ant1-8.909-9.320-≤10-PASS



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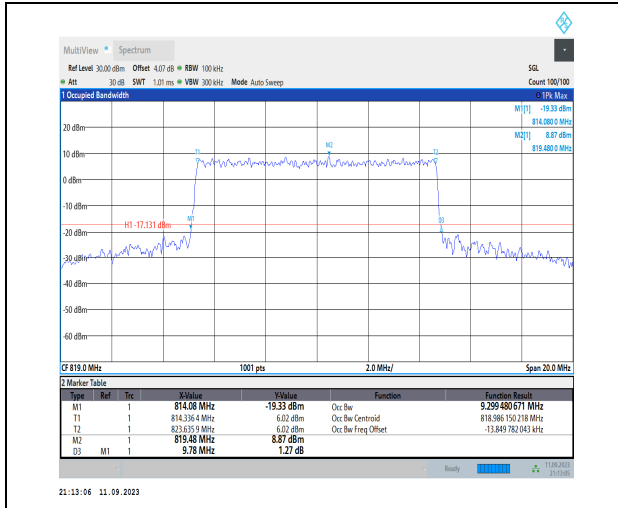


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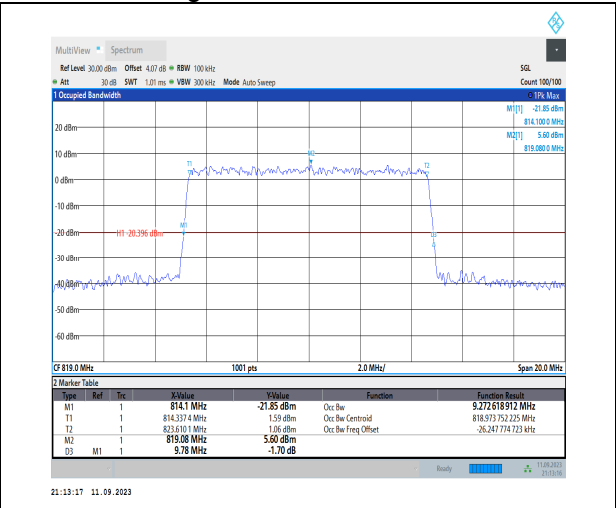


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1-N26-814-824-PC3-15-10-M-8-CP-64QAM-Outer\_Full-52@0-Ant1-9.299-9.780-≤10-PASS



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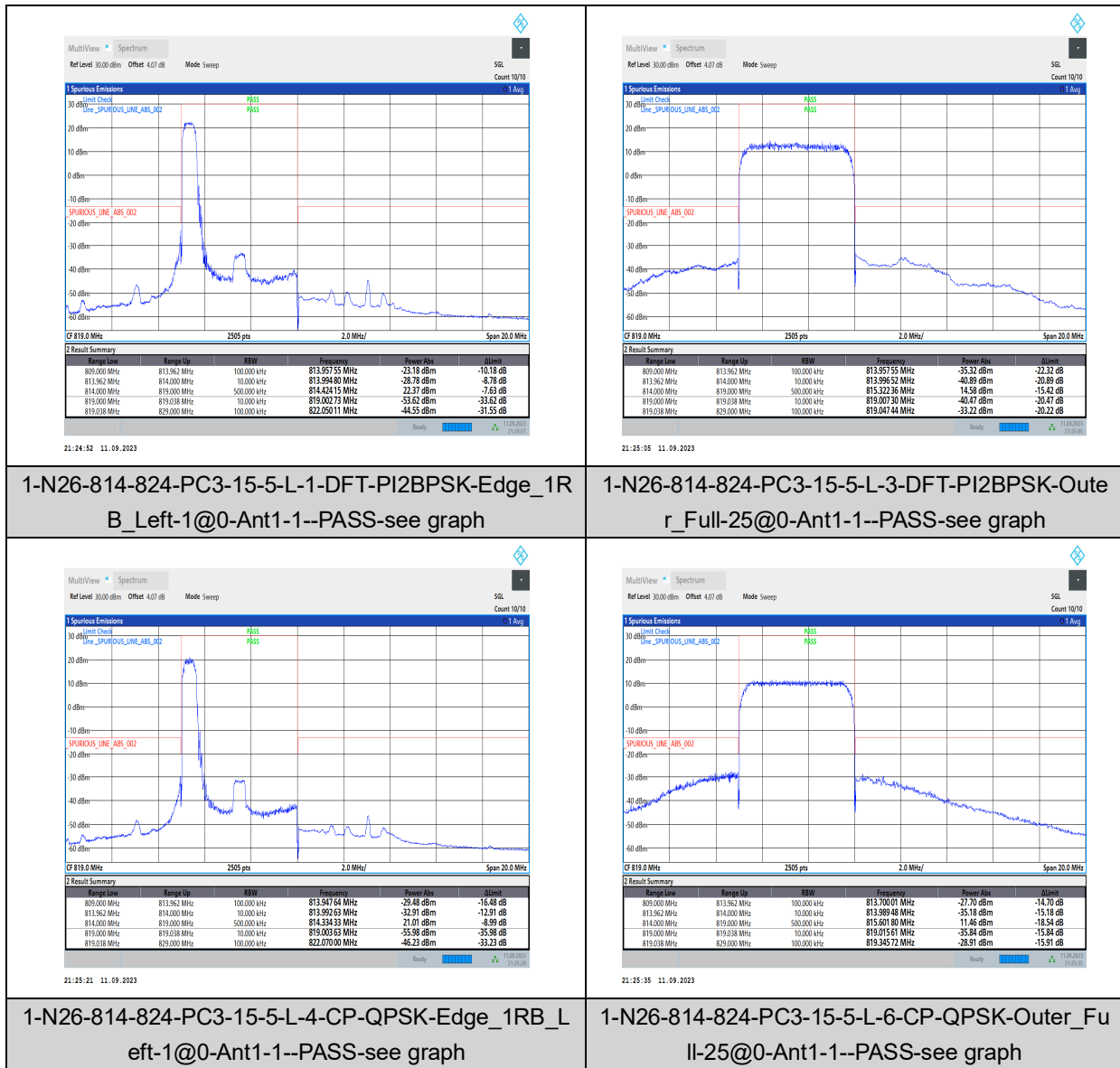


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## Band Edge for SA

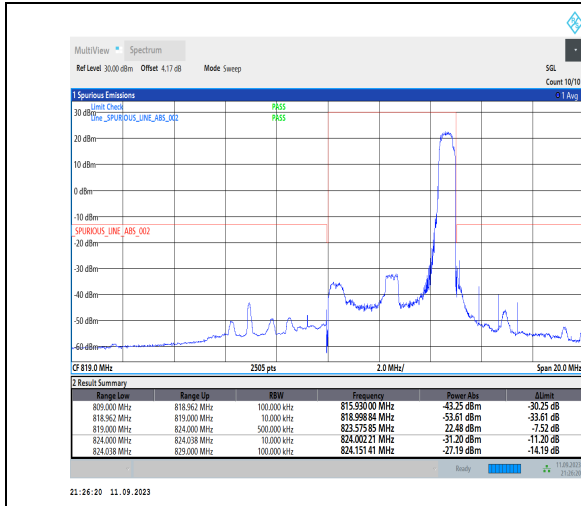
### Test Graphs



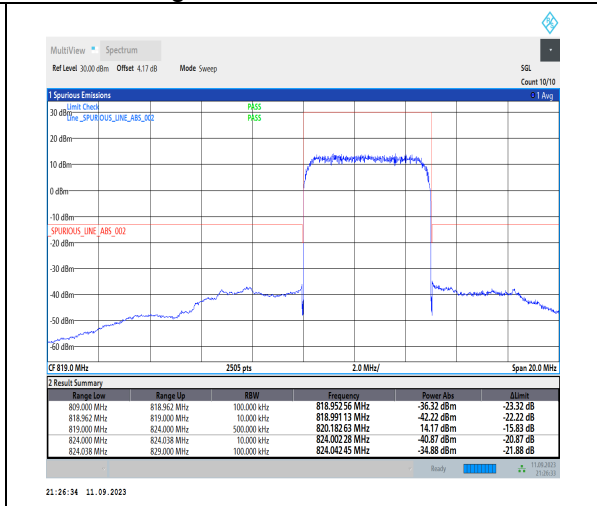
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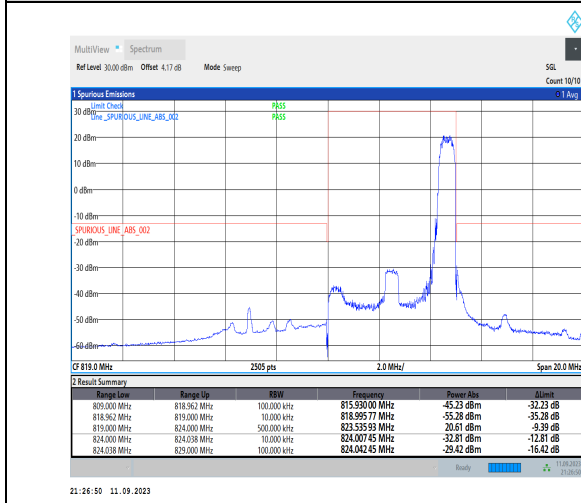
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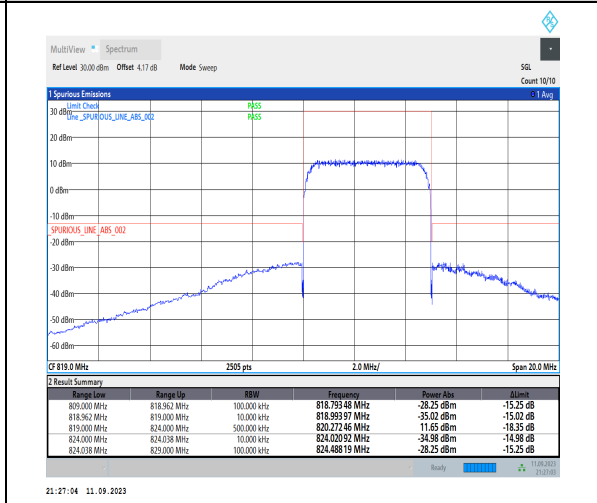
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1-N26-814-824-PC3-15-5-H-5-CP-QPSK-Edge\_1RB\_Right-1@24-Ant1-1--PASS-see graph

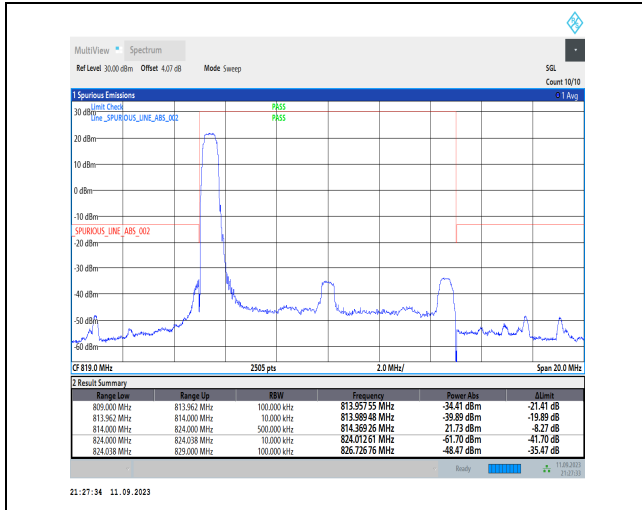


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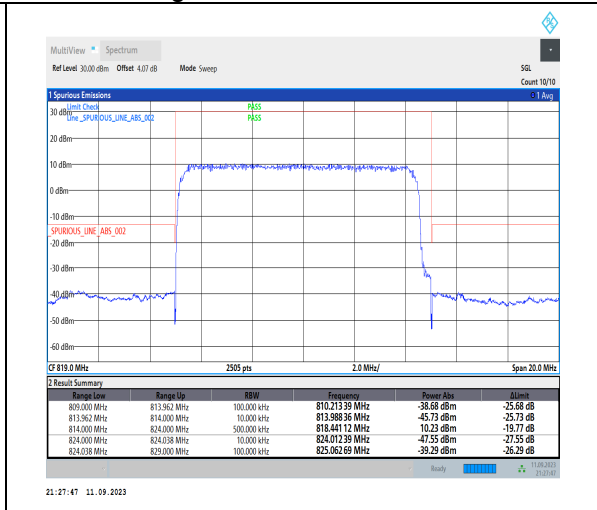


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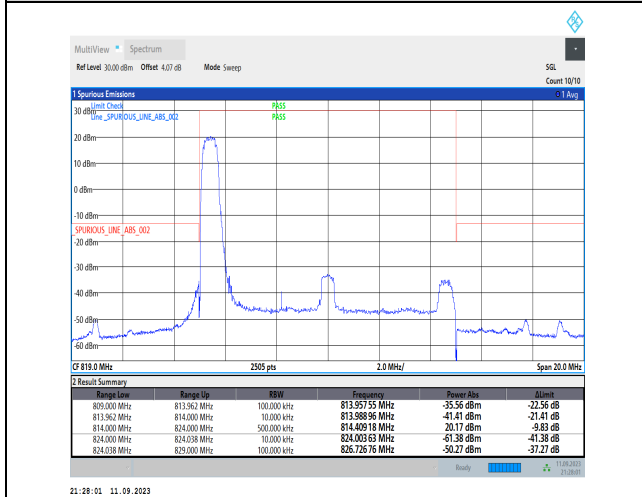
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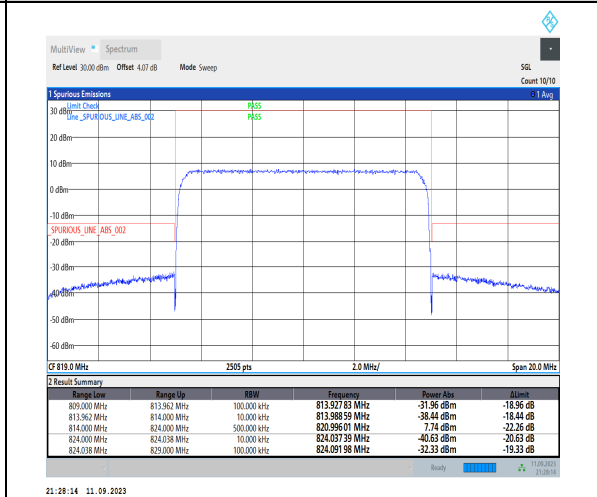
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1-N26-814-824-PC3-15-10-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant1-1--PASS-see graph

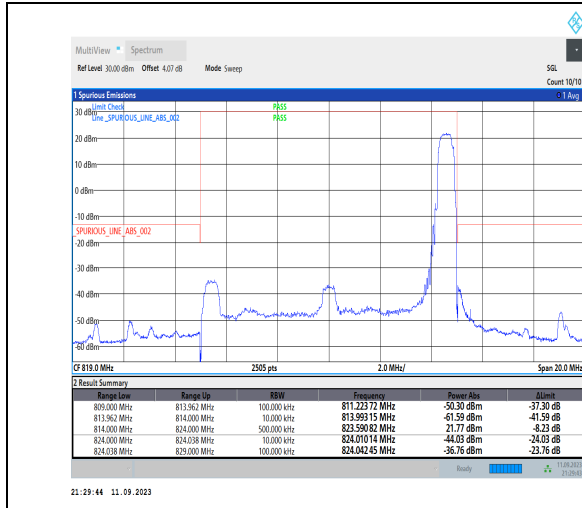


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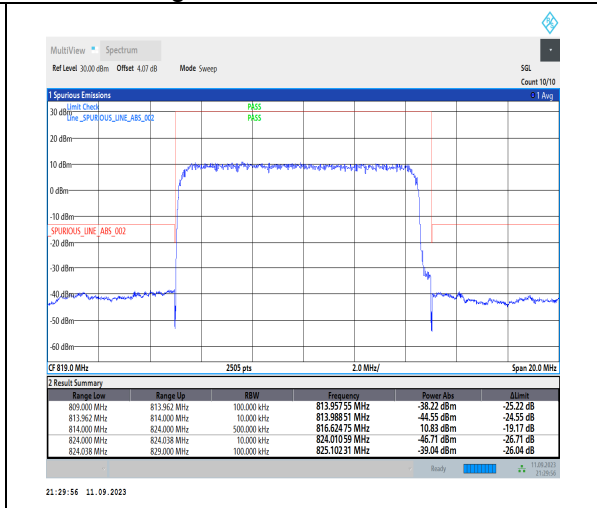


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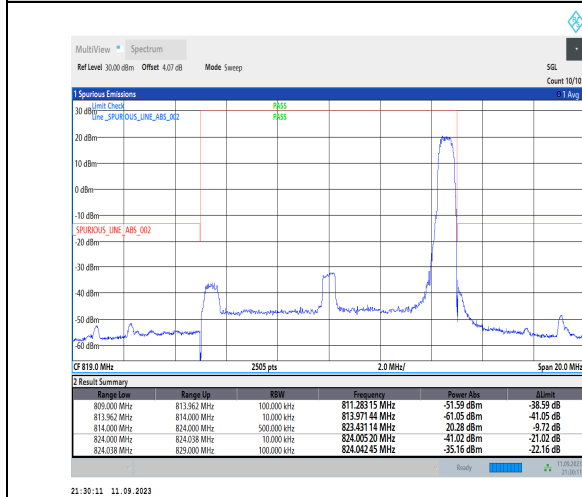
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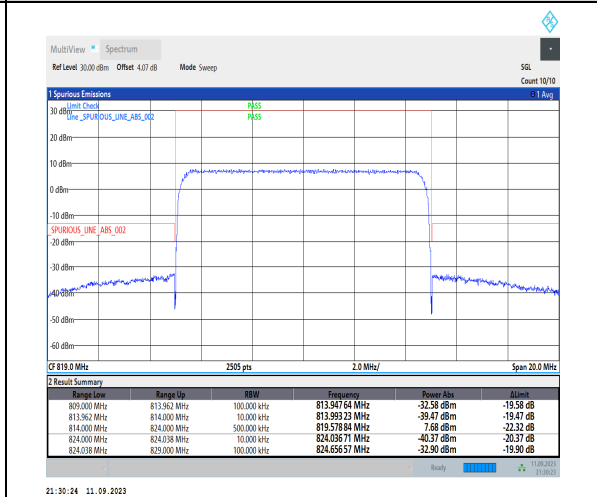
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1-N26-814-824-PC3-15-10-H-5-CP-QPSK-Edge\_1RB\_Right-1@51-Ant1-1--PASS-see graph



1-N26-814-824-PC3-15-10-H-6-CP-QPSK-Outer Full-52@0-Ant1-1--PASS-see graph



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## Conducted Spurious Emission for SA

### Test Graphs

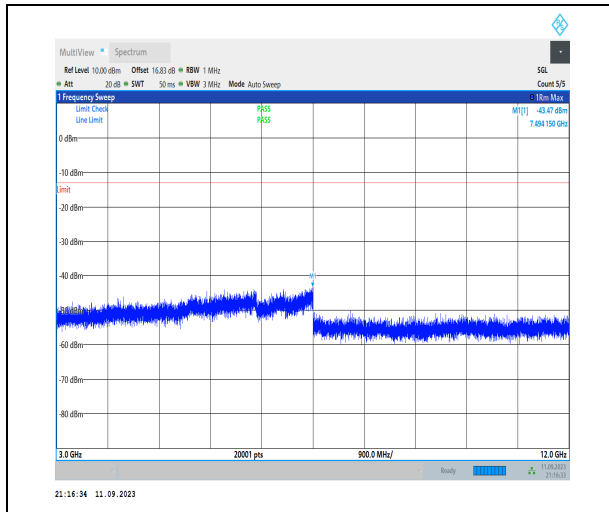
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<p>1-N26-814-824-PC3-15-10-L-1-DFT-PI2BPSK-Inner _1RB_Left-1@1-30-1000-Ant1-38.73--56.84--13-PA SS</p>	<p>1-N26-814-824-PC3-15-10-L-1-DFT-PI2BPSK-Inner_ 1RB_Left-1@1-1000-3000-Ant1-2444.00--44.73--13- PASS</p>



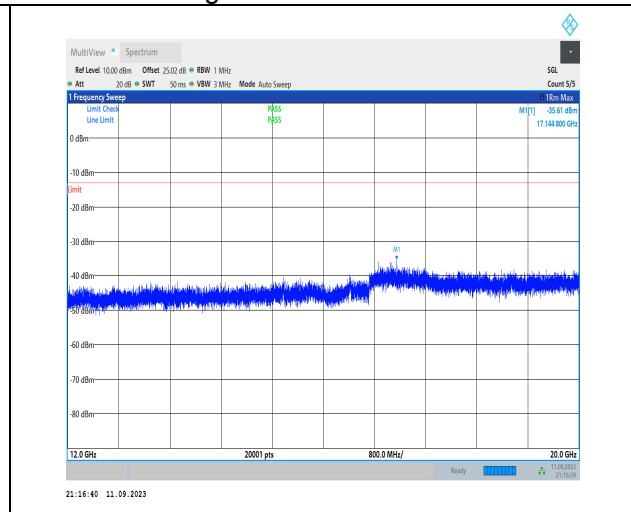
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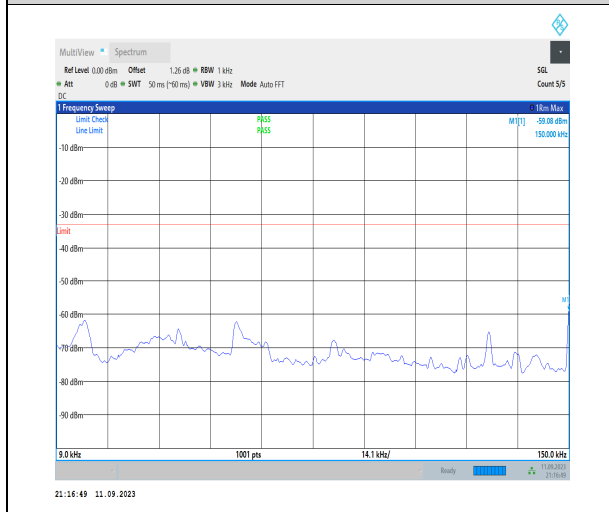
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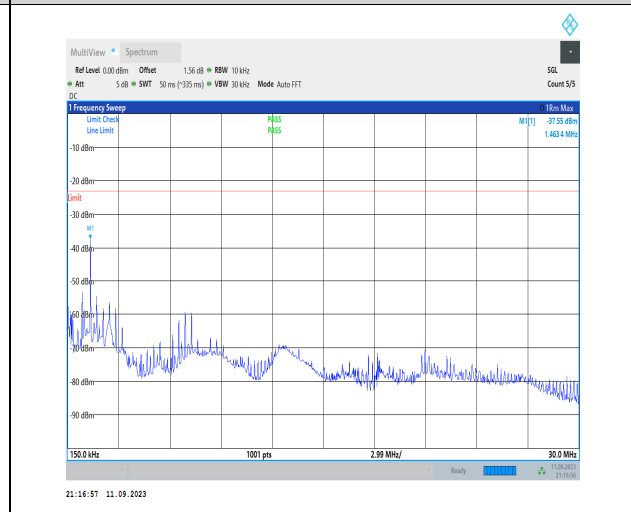
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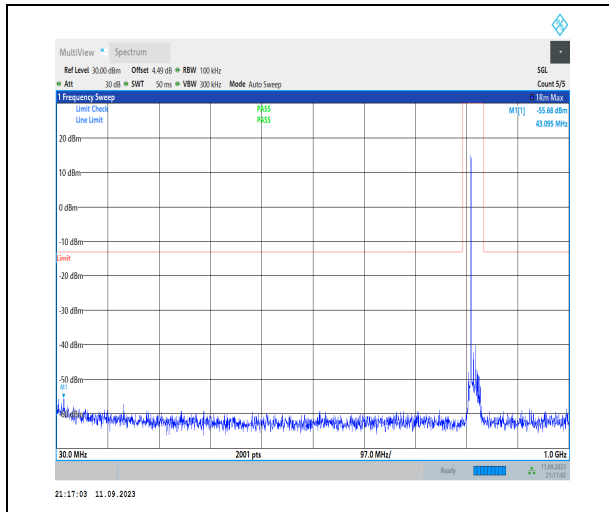
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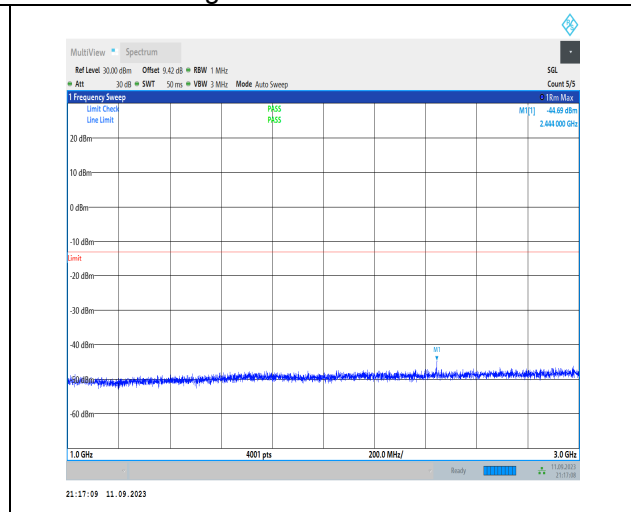
SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.  
 Wireless Laboratory

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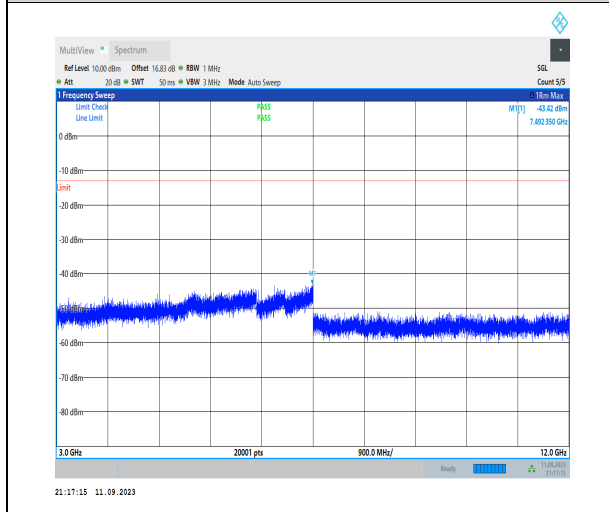
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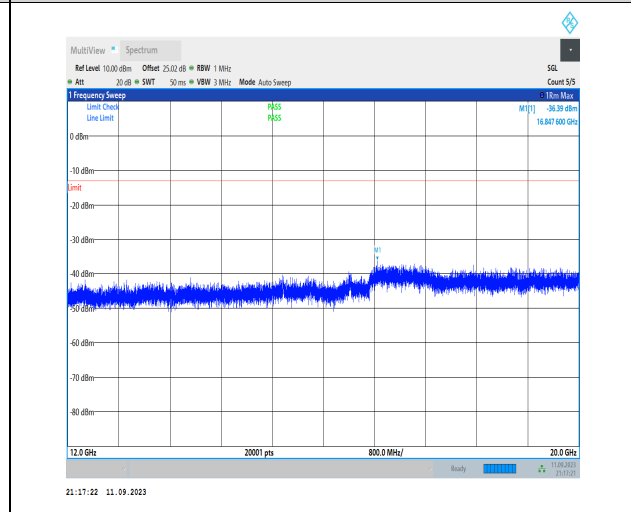
1-N26-814-824-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant1-43.10--55.68--13-PA SS



1-N26-814-824-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-3000-Ant1-2444.00--44.69--13 -PASS



1-N26-814-824-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-3000-12000-Ant1-7492.35--43.42--13-PASS

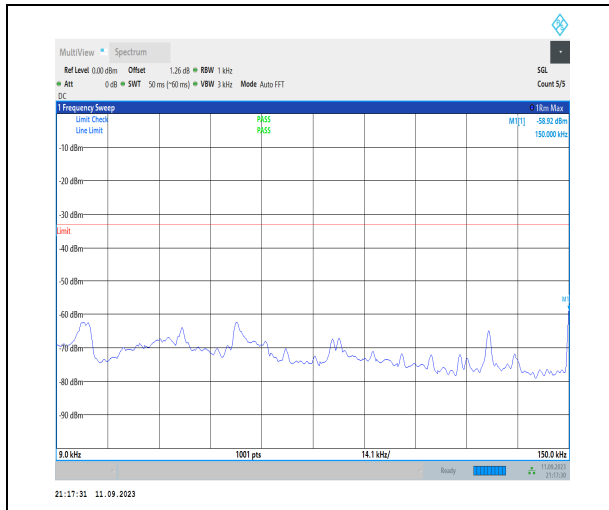


1-N26-814-824-PC3-15-10-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-12000-20000-Ant1-16847.60--36.39-13-PASS

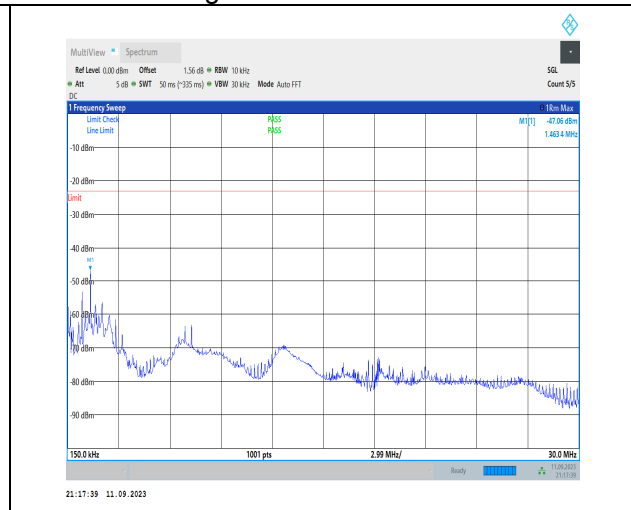


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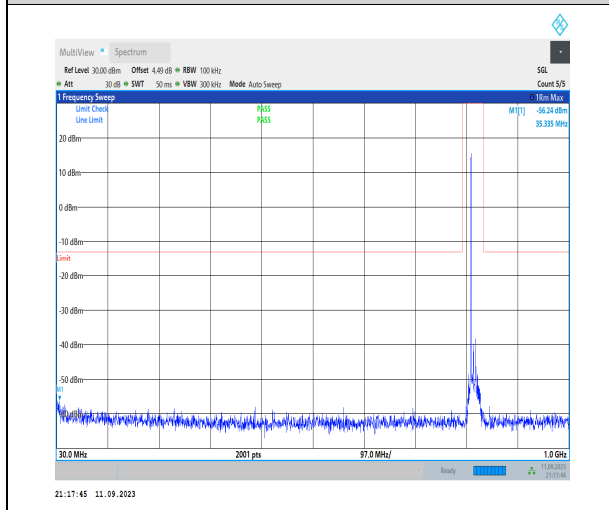
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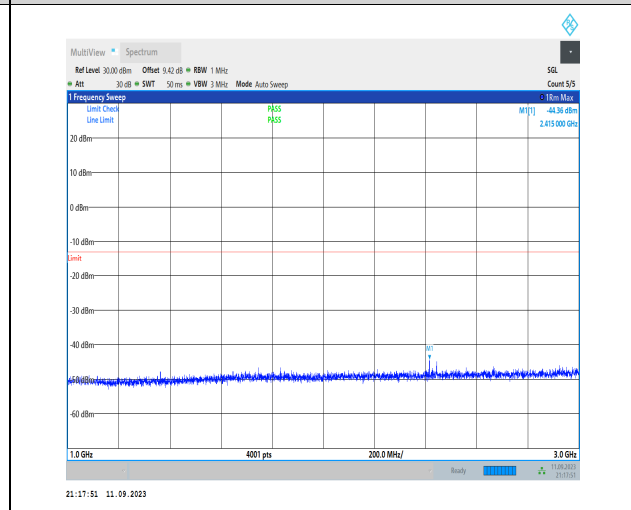
1-N26-814-824-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.009-0.15-Ant1-0.15--58.92--33-P ASS



1-N26-814-824-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-0.15-30-Ant1-1.46--47.06--23-PASS



1-N26-814-824-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-30-1000-Ant1-35.34--56.24--13-PASS

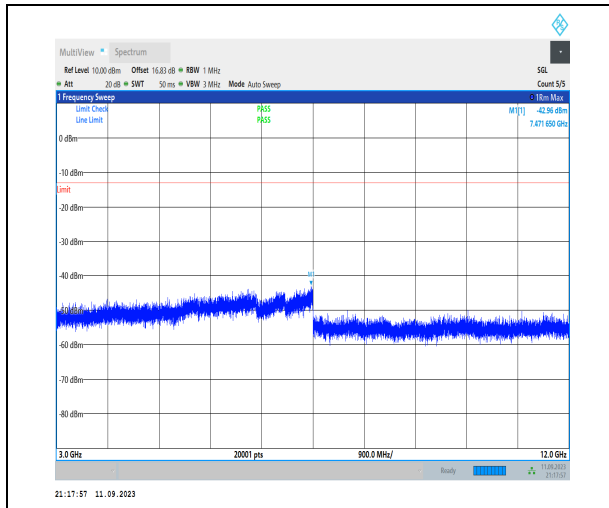


1-N26-814-824-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-1000-3000-Ant1-2415.00--44.36--13-PASS

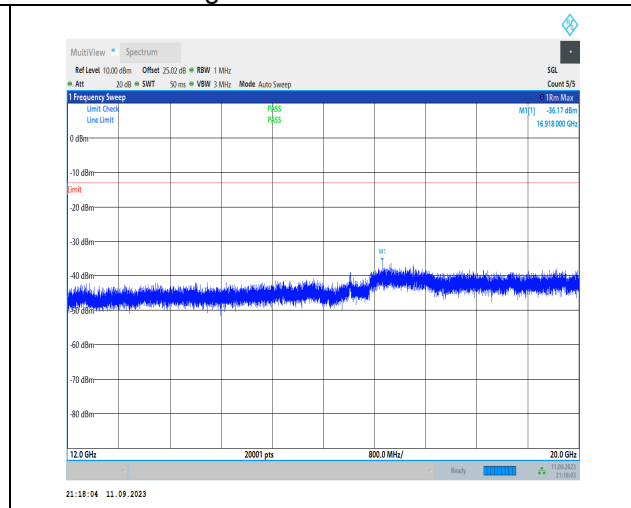


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1-N26-814-824-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-3000-12000-Ant1-7471.65--42.96--13-PASS



1-N26-814-824-PC3-15-10-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-12000-20000-Ant1-16918.00--36.17--13-PASS



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## Field Strength of Spurious Radiation

Test Band = SA Band 26 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	1629.18	45.27	-49.87	25.22	-74.64	-13.00	61.64	Horizontal
2	2443.77	44.82	-49.22	27.23	-72.43	-13.00	59.43	Horizontal
3	3258.36	44.34	-48.63	28.60	-70.94	-13.00	57.94	Horizontal
4	4072.95	43.48	-48.28	29.53	-70.53	-13.00	57.53	Horizontal
5	4887.54	43.59	-48.15	31.23	-68.59	-13.00	55.59	Horizontal
6	5702.13	43.26	-47.50	32.74	-66.76	-13.00	53.76	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1629.18	45.12	-49.87	25.22	-74.79	-13.00	61.79	Vertical
2	2443.77	44.62	-49.22	27.23	-72.63	-13.00	59.63	Vertical
3	3258.36	44.42	-48.63	28.60	-70.86	-13.00	57.86	Vertical
4	4072.95	43.93	-48.28	29.53	-70.08	-13.00	57.08	Vertical
5	4887.54	43.57	-48.15	31.23	-68.61	-13.00	55.61	Vertical
6	5702.13	43.13	-47.50	32.74	-66.89	-13.00	53.89	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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## Frequency Stability for SA

### Test Result

### Frequency Error VS. Voltage

Voltage										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	-4.000000	-0.004884	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	-2.600000	-0.003175	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	-6.400000	-0.007814	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VH	NT	-2.000000	-0.002442	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VN	NT	4.700000	0.005739	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	VL	NT	-11.400000	-0.013919	PASS



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**Frequency Error VS. Temperature**

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	-0.400000	-0.000488	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	-3.100000	-0.003785	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	-1.400000	-0.001709	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	0	-5.200000	-0.006349	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	10	0.600000	0.000733	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	20	-5.400000	-0.006593	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	30	-5.400000	-0.006593	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.800000	-0.003419	PASS
N26-814-824	15	10	DFT-PI2BPSK	M	Outer_Full	NV	50	2.200000	0.002686	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-30	-3.900000	-0.004762	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-20	1.900000	0.002320	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	-10	-0.500000	-0.000611	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	0	-5.000000	-0.006105	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	10	-2.200000	-0.002686	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	20	-0.600000	-0.000733	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	30	-3.800000	-0.004640	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	40	-2.900000	-0.003541	PASS
N26-814-824	15	10	CP-QPSK	M	Outer_Full	NV	50	-1.200000	-0.001465	PASS

---End of Attachment---



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