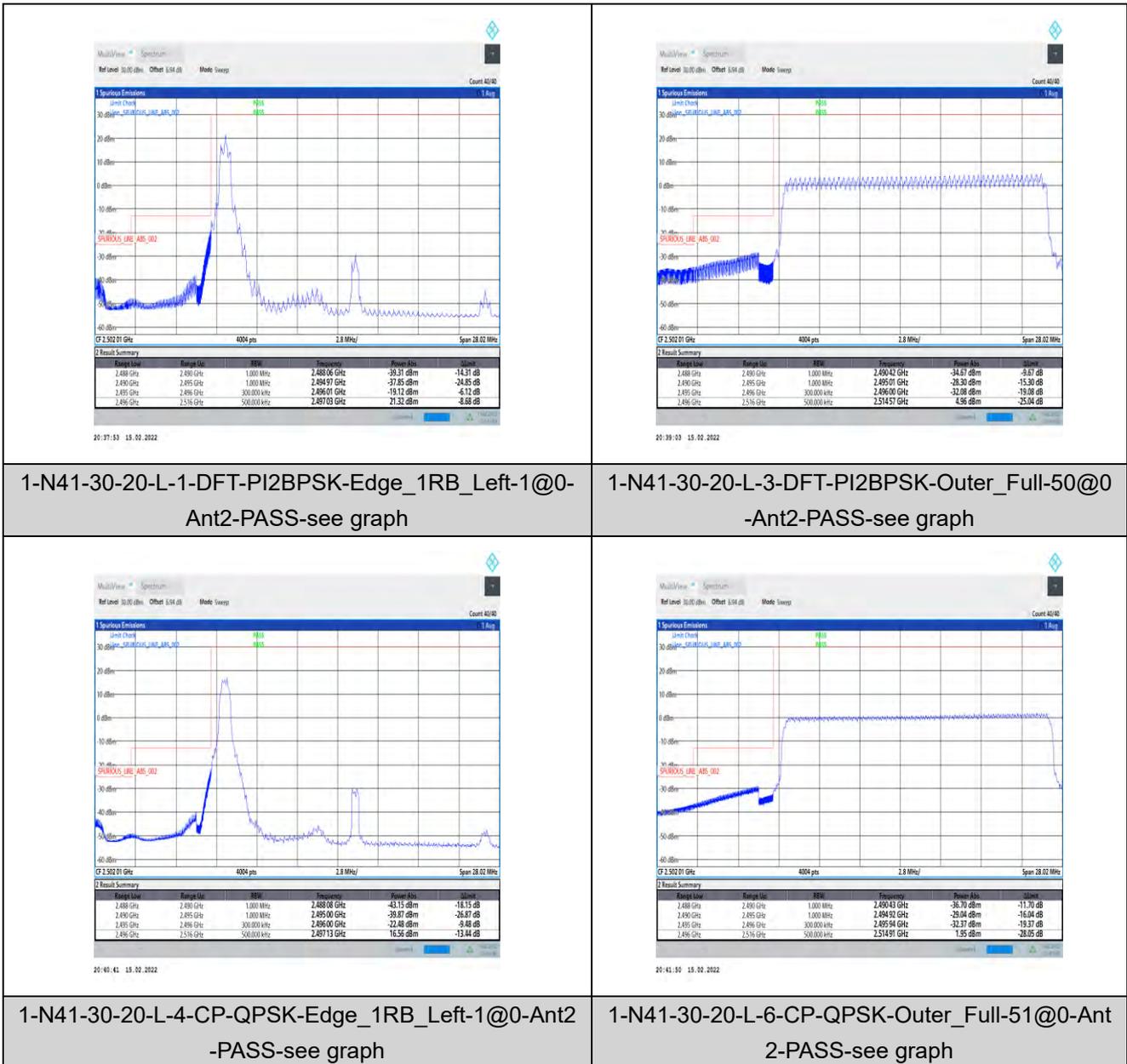


## Band Edge for SA

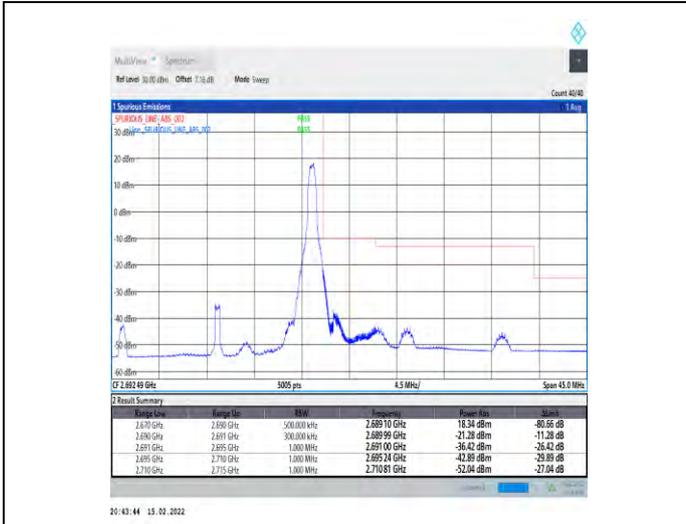
### Test Graphs



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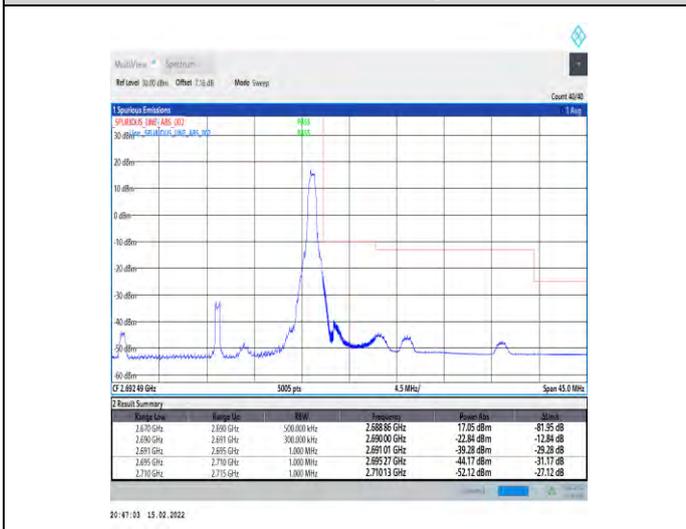
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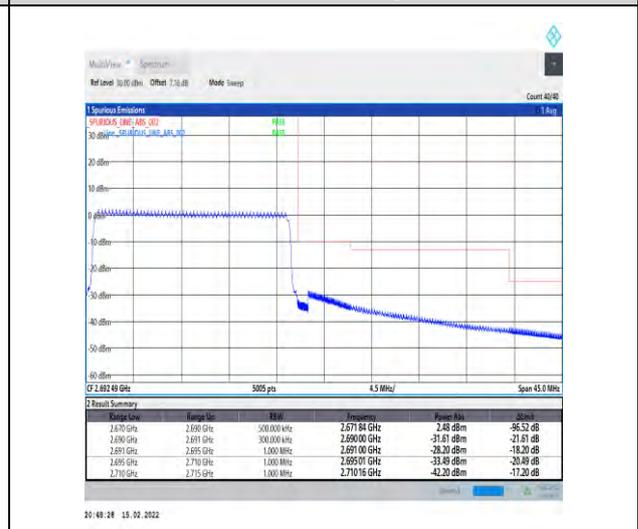
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50-Ant2-PASS-see graph



1-N41-30-20-H-3-DFT-PI2BPSK-Outer\_Full-50@0  
-Ant2-PASS-see graph



1-N41-30-20-H-5-CP-QPSK-Edge\_1RB\_Right-1@50-A  
nt2-PASS-see graph



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2-PASS-see graph

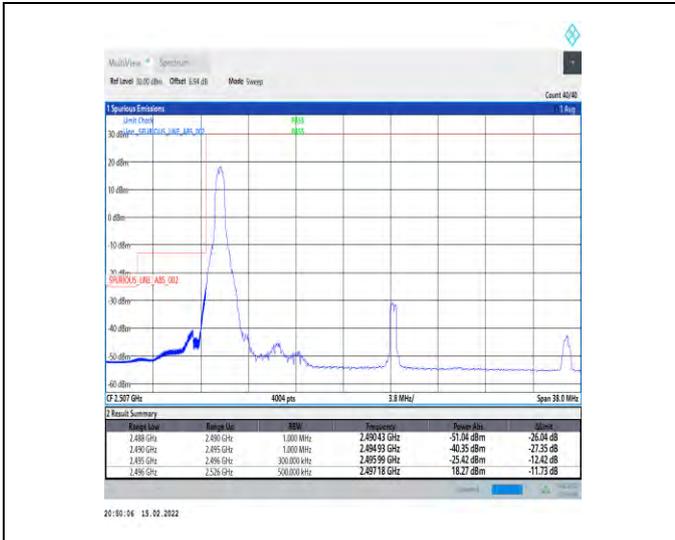


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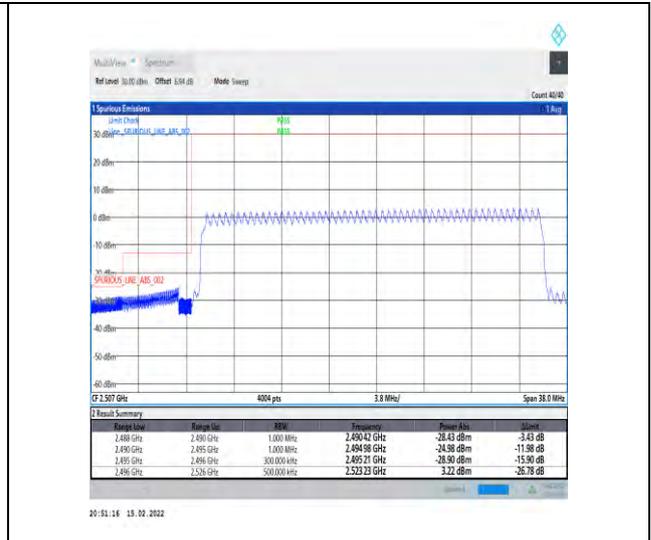
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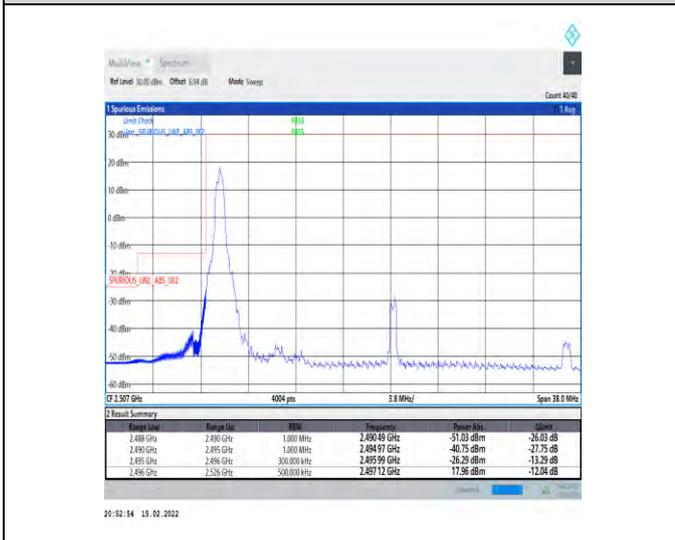
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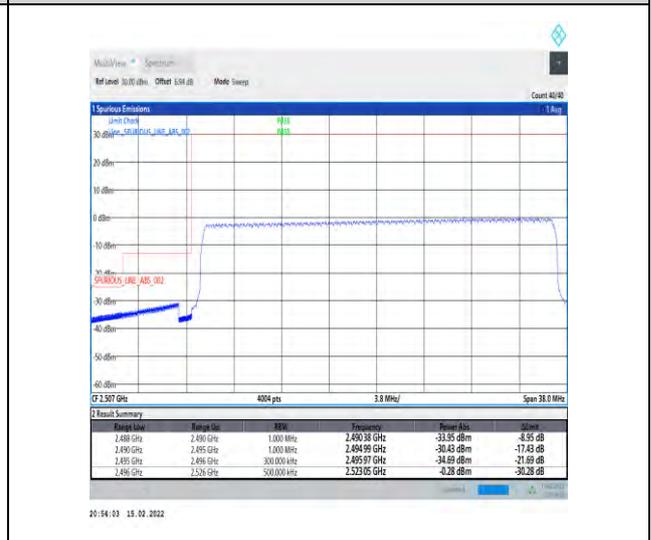
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1-N41-30-30-L-3-DFT-PI2BPSK-Outer\_Full-75@0-Ant2-PASS-see graph



1-N41-30-30-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant2-PASS-see graph



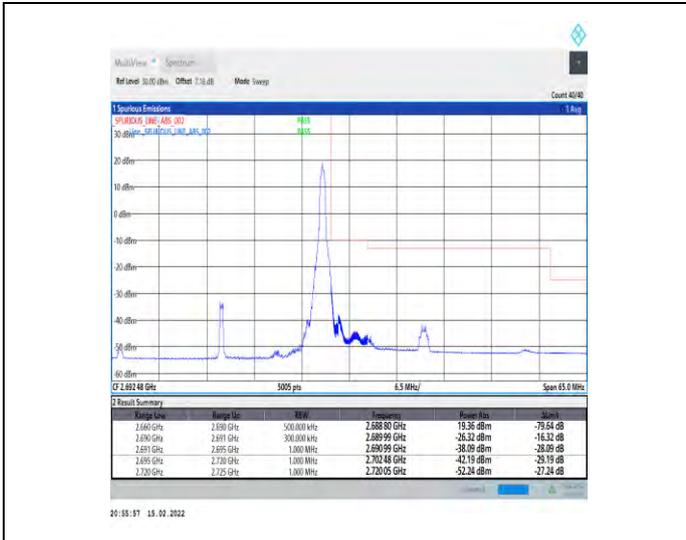
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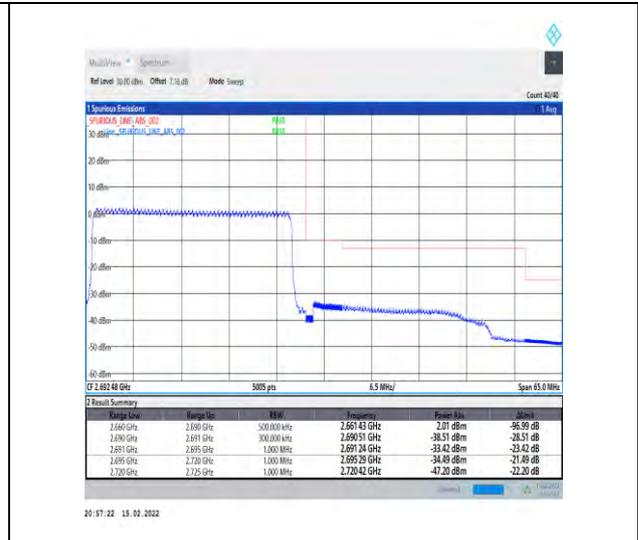
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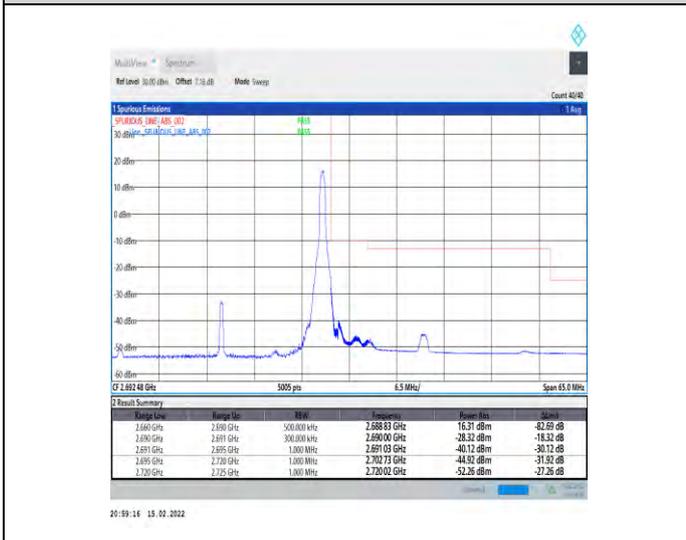
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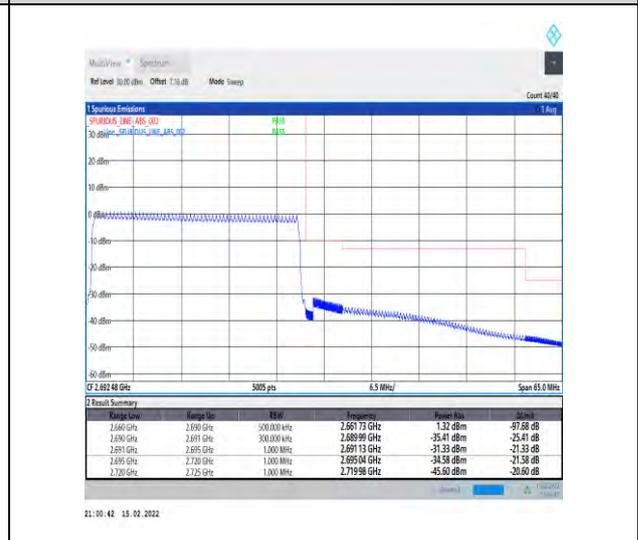
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1-N41-30-30-H-5-CP-QPSK-Edge\_1RB\_Right-1@77-Ant2-PASS-see graph



1-N41-30-30-H-6-CP-QPSK-Outer\_Full-78@0-Ant2-PASS-see graph



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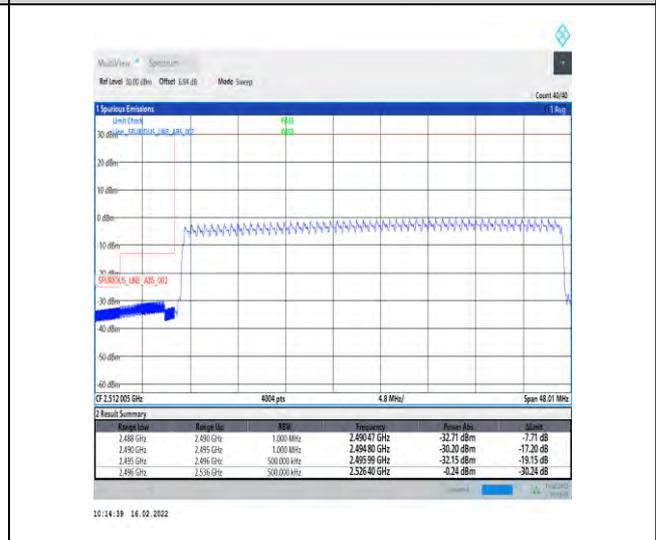
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1-N41-30-40-L-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant2-PASS-see graph



1-N41-30-40-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant 2-PASS-see graph



1-N41-30-40-L-6-CP-QPSK-Outer\_Full-106@0-Ant 2-PASS-see graph

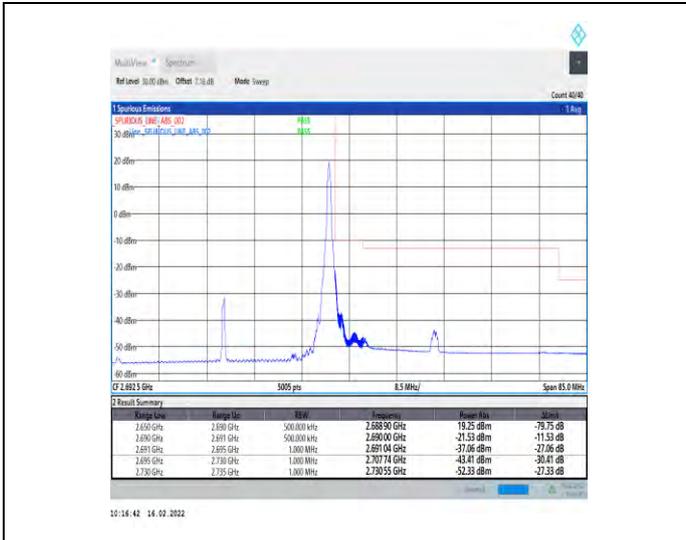


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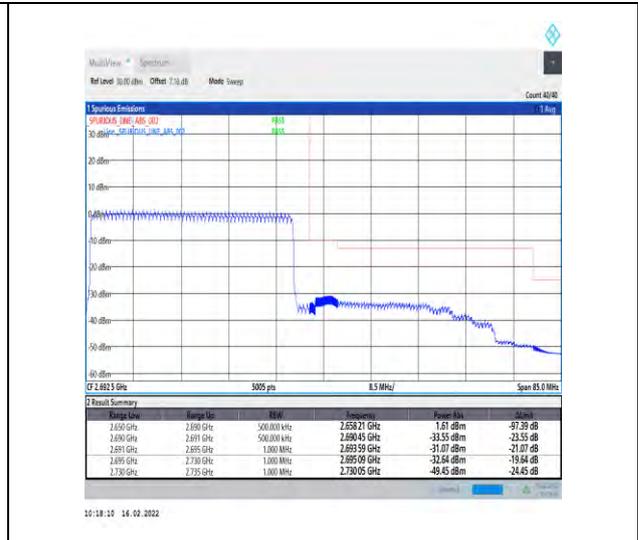
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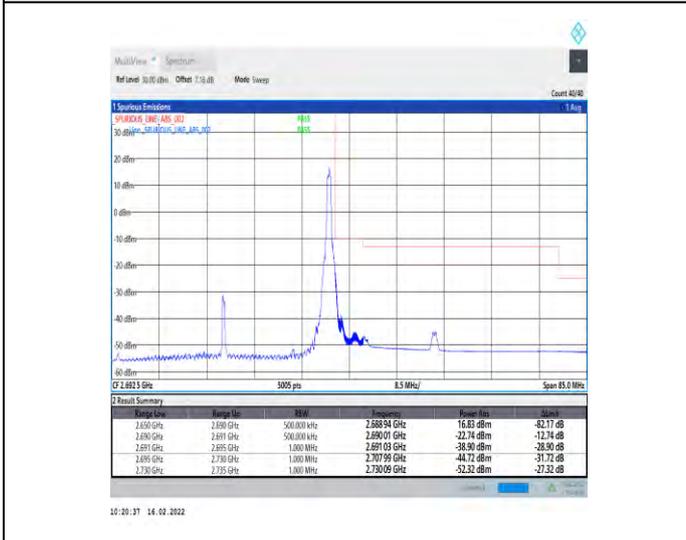
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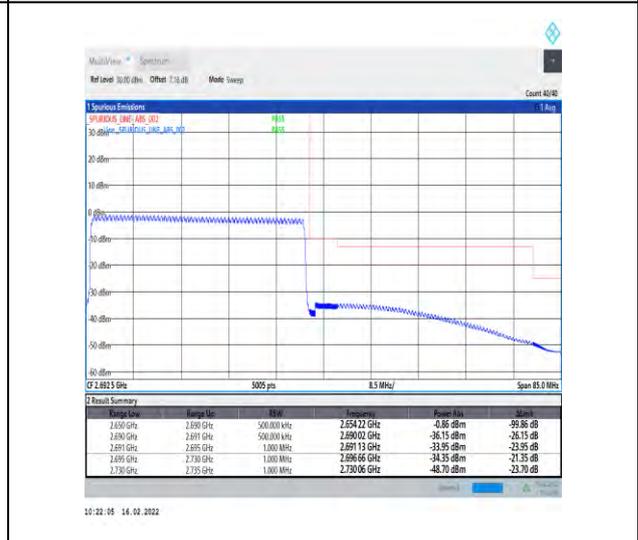
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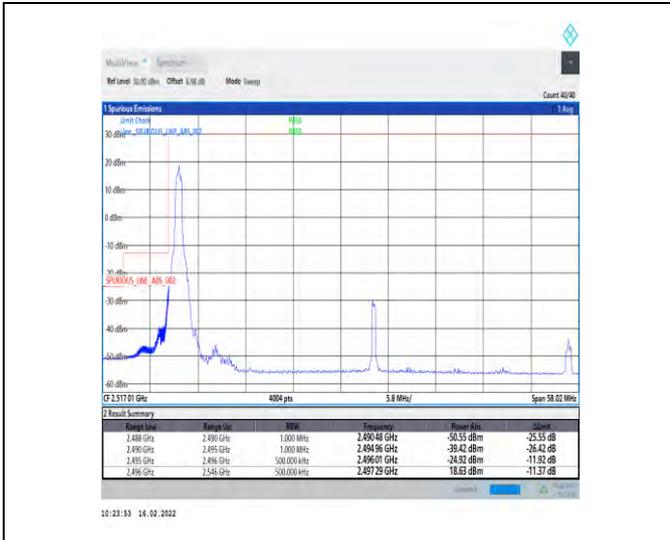
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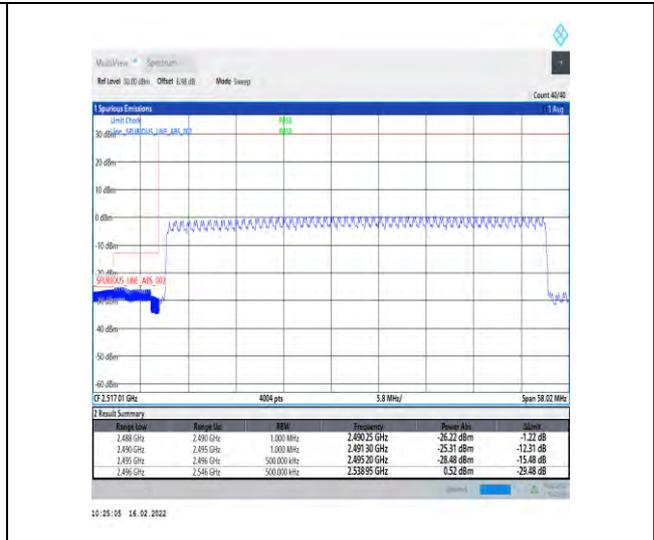
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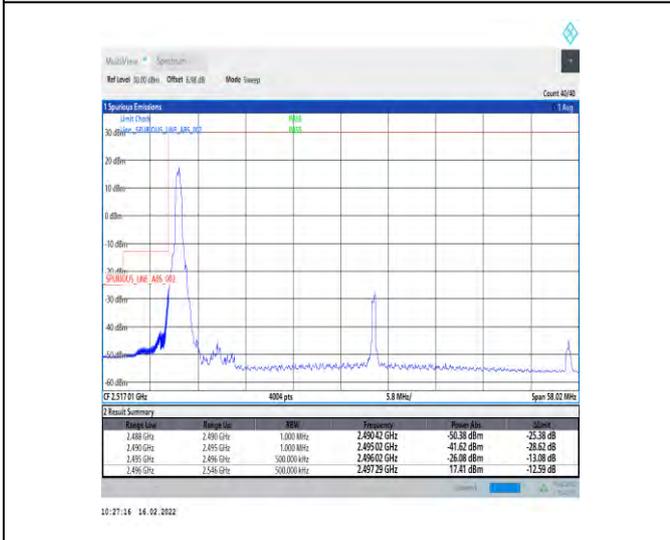
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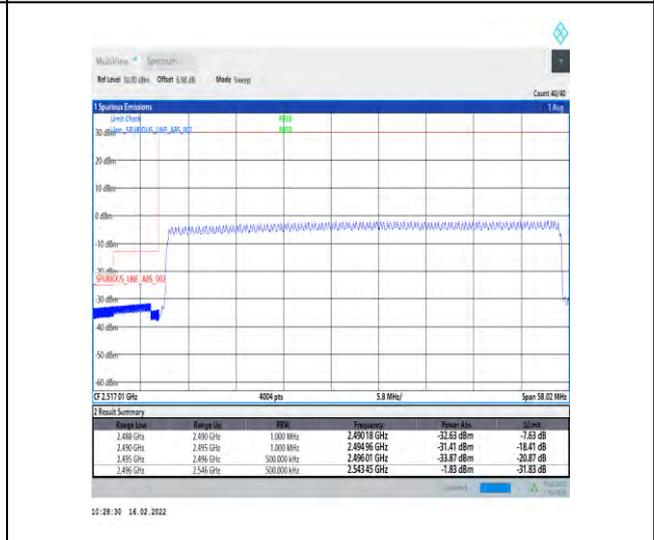
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1-N41-30-50-L-3-DFT-PI2BPSK-Outer\_Full-128@0-Ant2-PASS-see graph



1-N41-30-50-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant 2-PASS-see graph



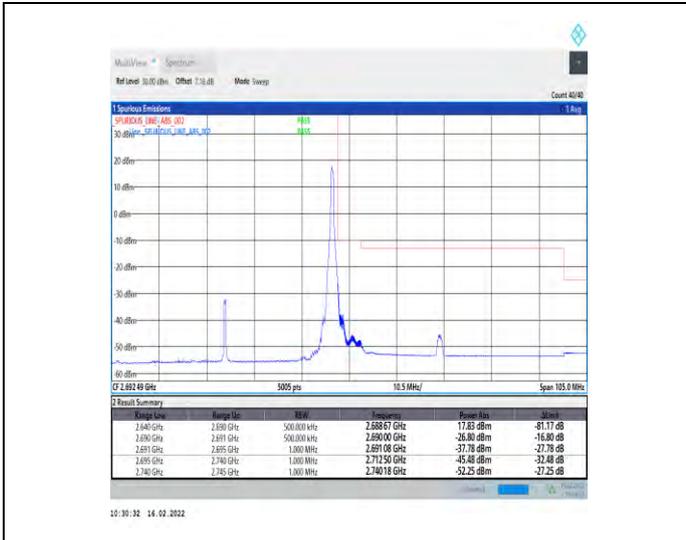
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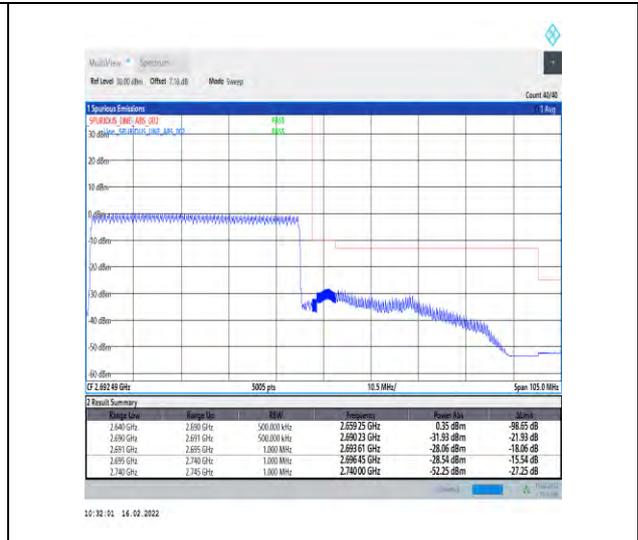
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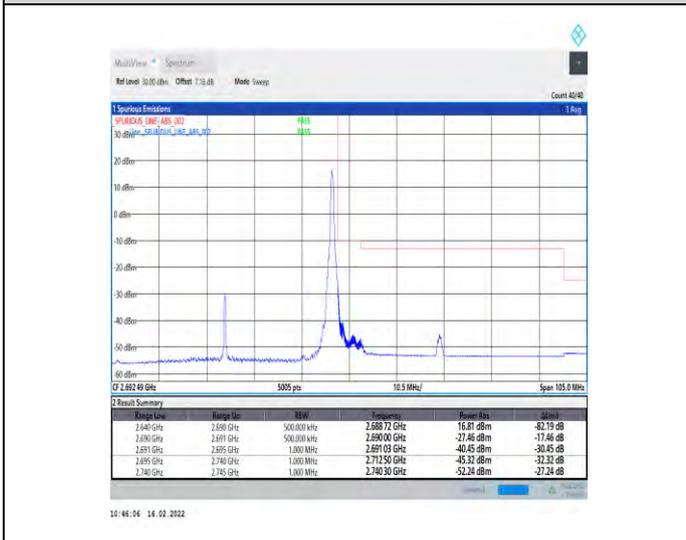
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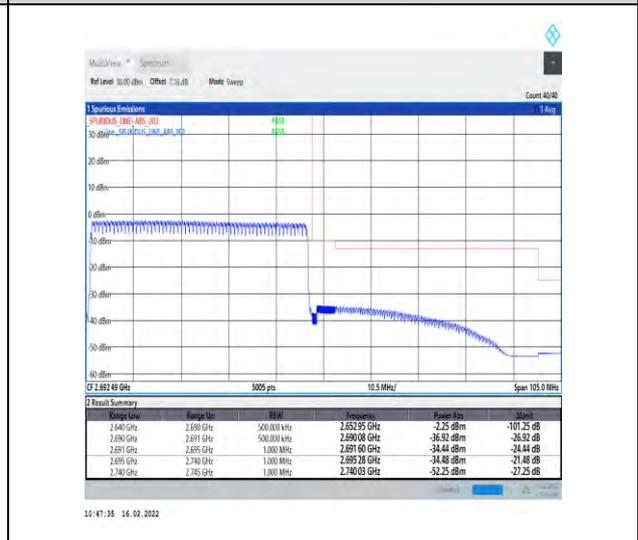
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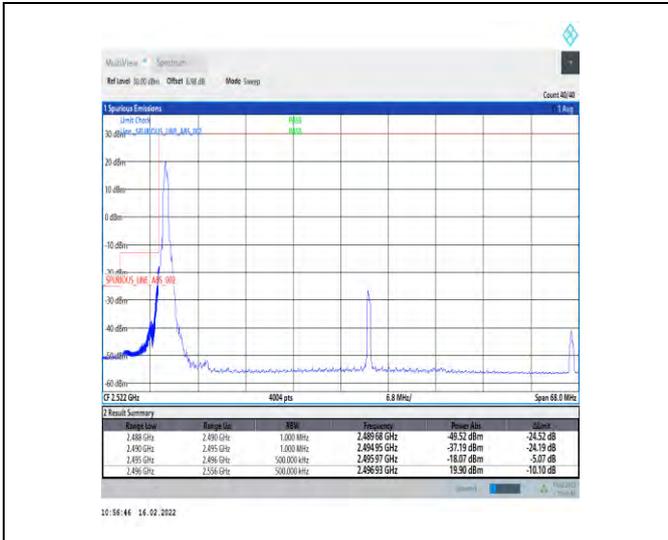


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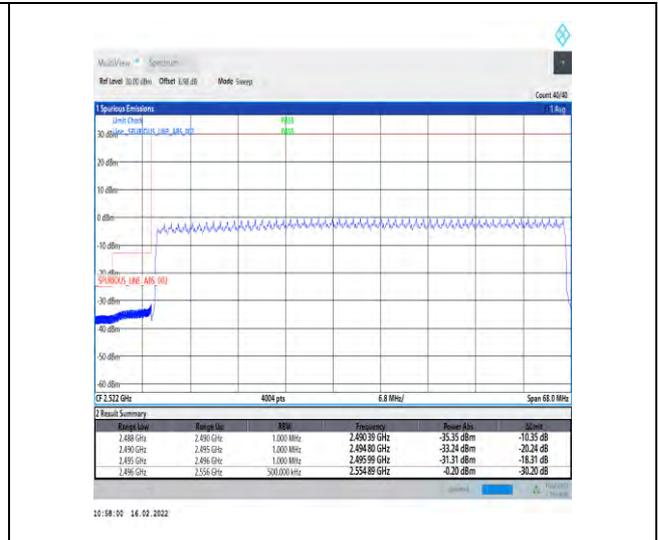


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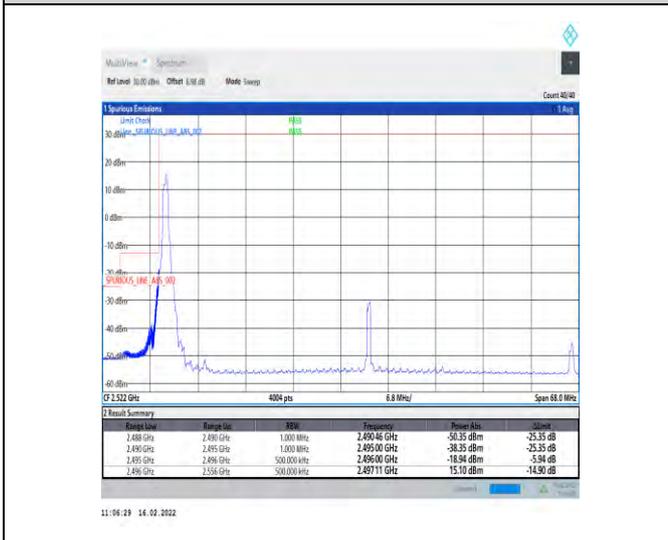
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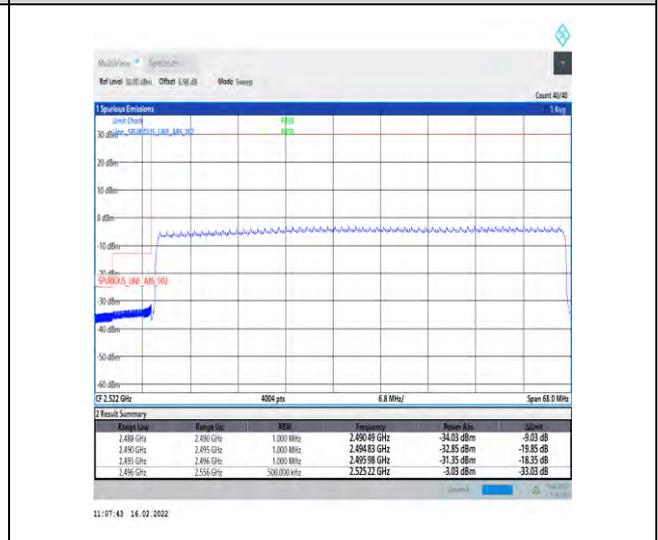
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1-N41-30-60-L-3-DFT-PI2BPSK-Outer\_Full-162@0-Ant2-PASS-see graph



1-N41-30-60-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant 2-PASS-see graph



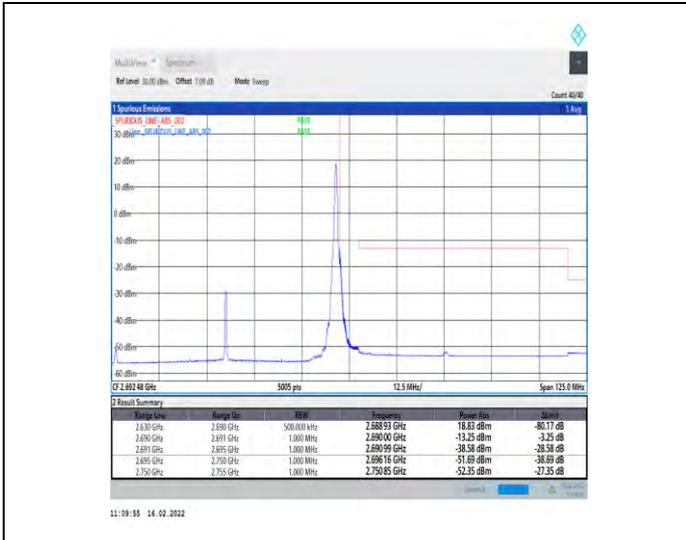
1-N41-30-60-L-6-CP-QPSK-Outer\_Full-162@0-Ant 2-PASS-see graph



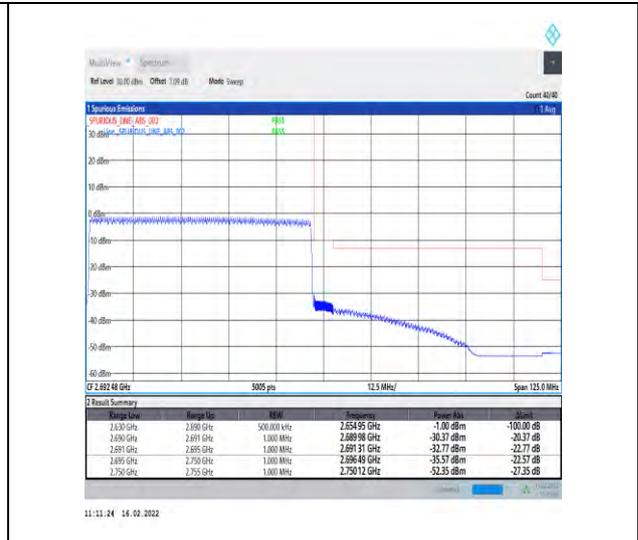
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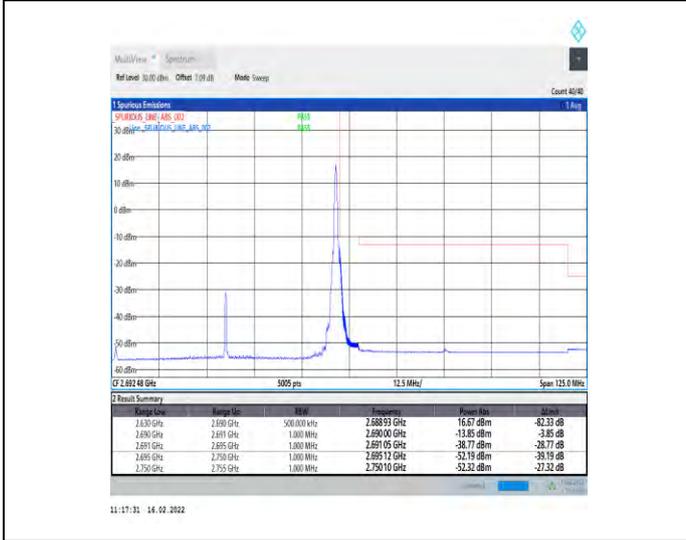
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1-N41-30-60-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@161-Ant2-PASS-see graph



1-N41-30-60-H-3-DFT-PI2BPSK-Outer\_Full-162@0-Ant2-PASS-see graph



1-N41-30-60-H-5-CP-QPSK-Edge\_1RB\_Right-1@161-Ant2-PASS-see graph



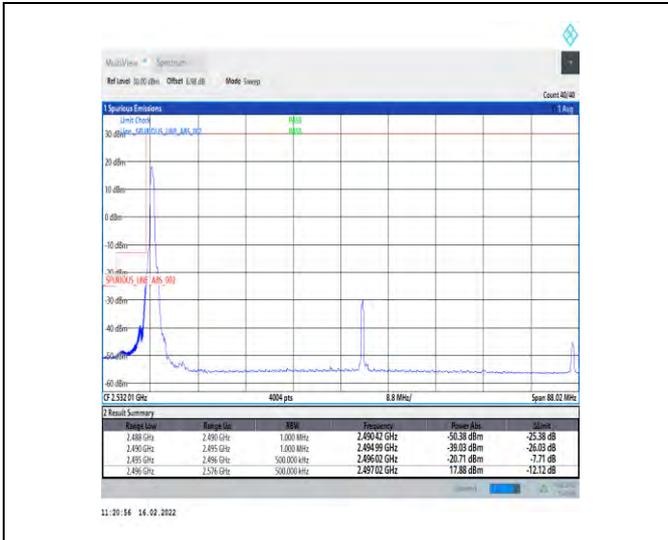
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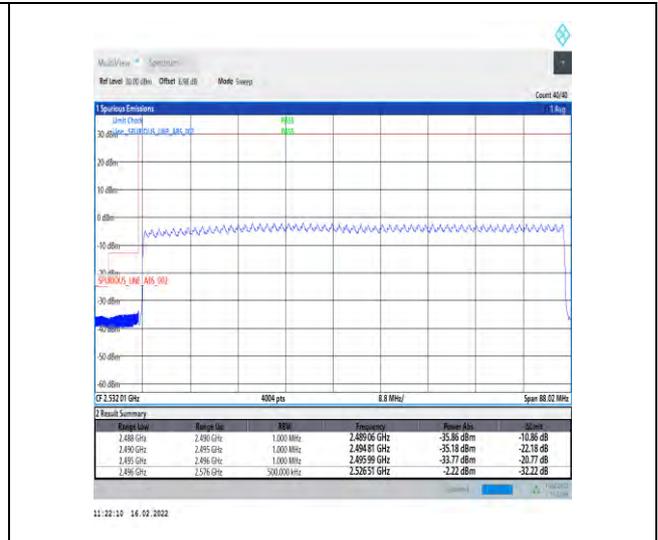
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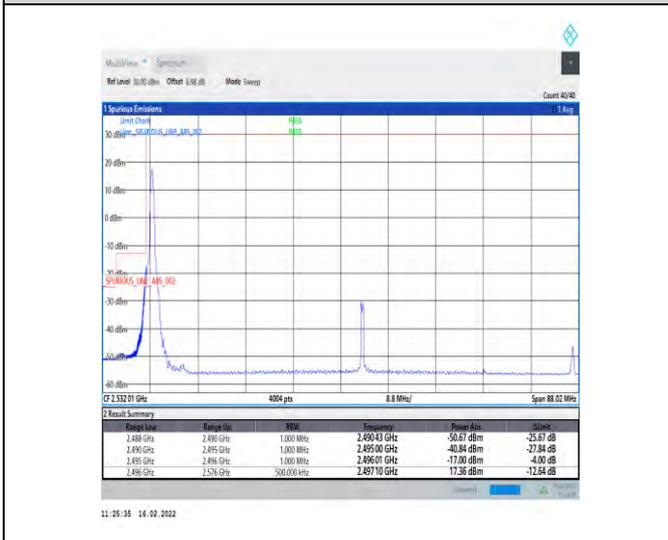
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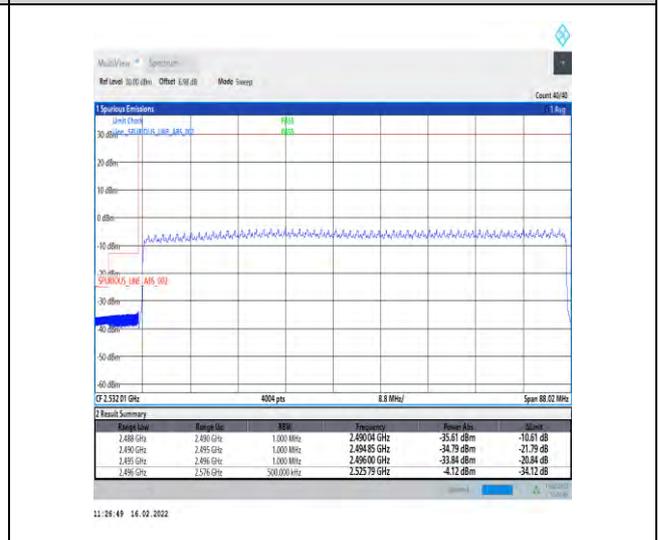
1-N41-30-80-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant2-PASS-see graph



1-N41-30-80-L-3-DFT-PI2BPSK-Outer\_Full-216@0-Ant2-PASS-see graph



1-N41-30-80-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant 2-PASS-see graph



1-N41-30-80-L-6-CP-QPSK-Outer\_Full-217@0-Ant 2-PASS-see graph

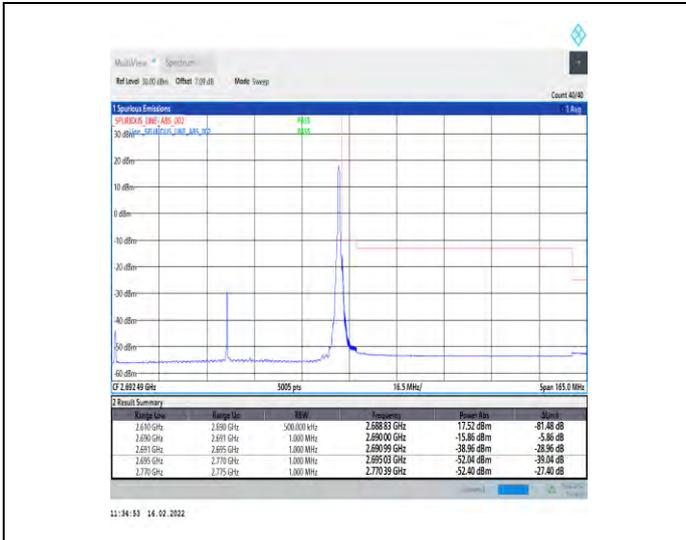


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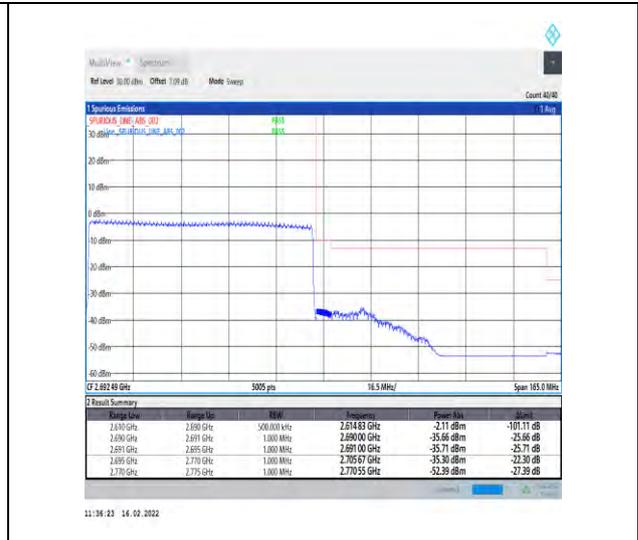
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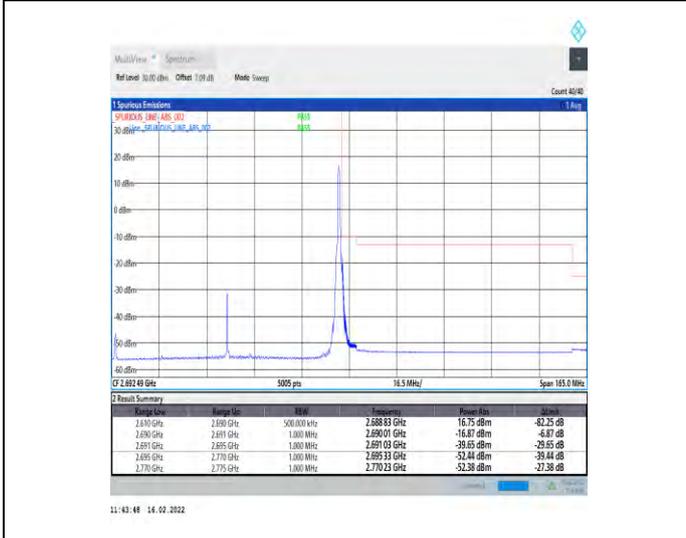
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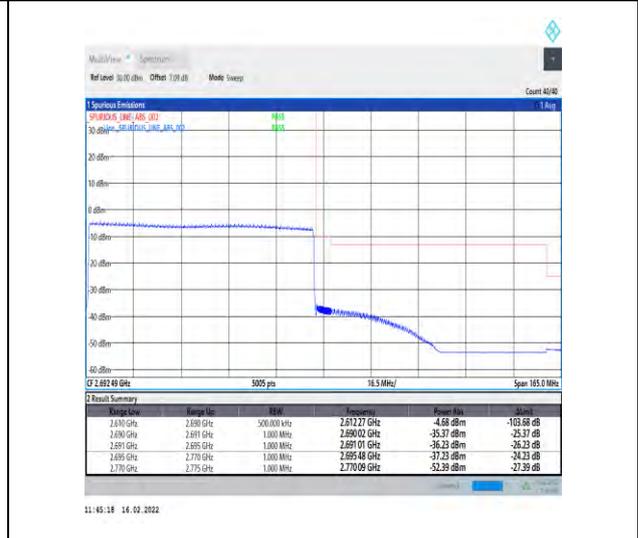
1-N41-30-80-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@216-Ant2-PASS-see graph



1-N41-30-80-H-3-DFT-PI2BPSK-Outer\_Full-216@0-Ant2-PASS-see graph



1-N41-30-80-H-5-CP-QPSK-Edge\_1RB\_Right-1@216-Ant2-PASS-see graph



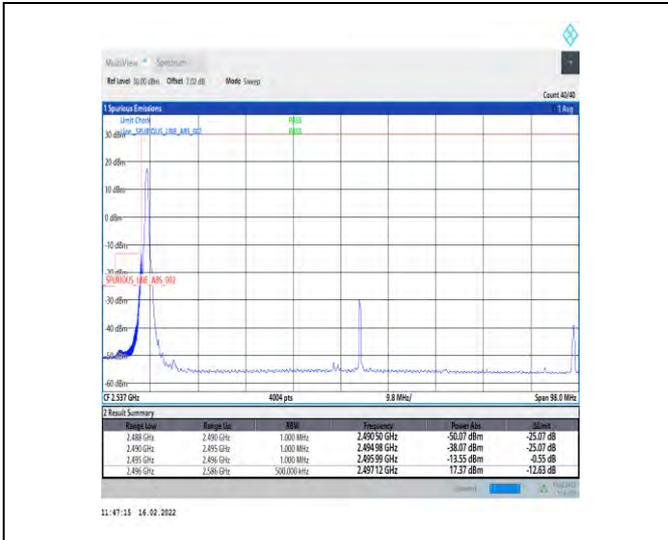
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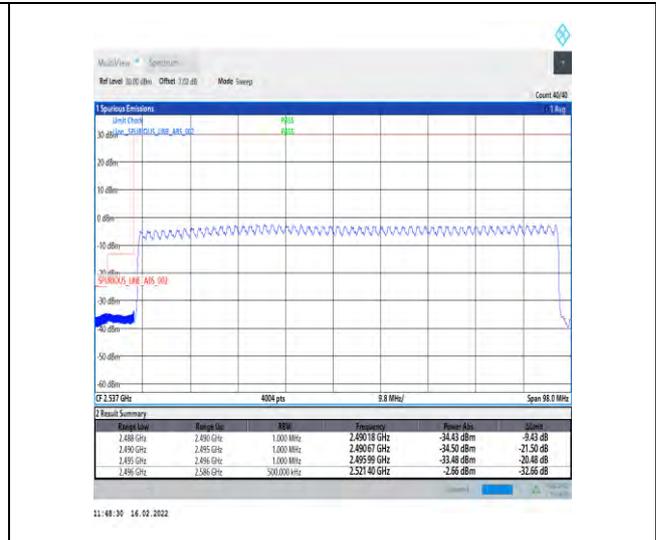
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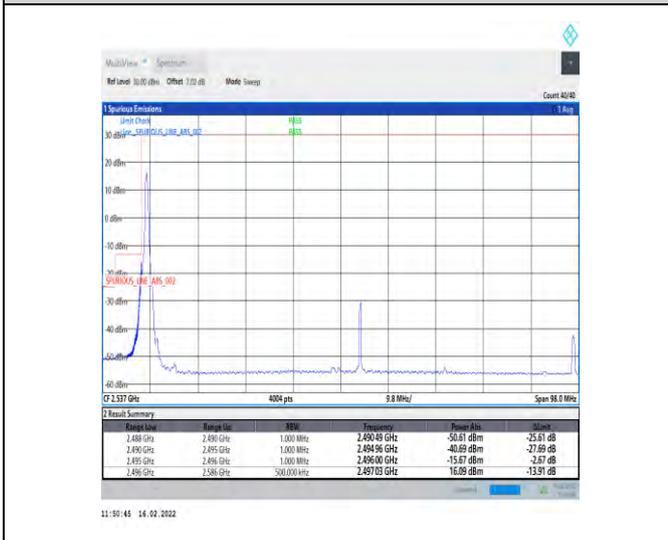
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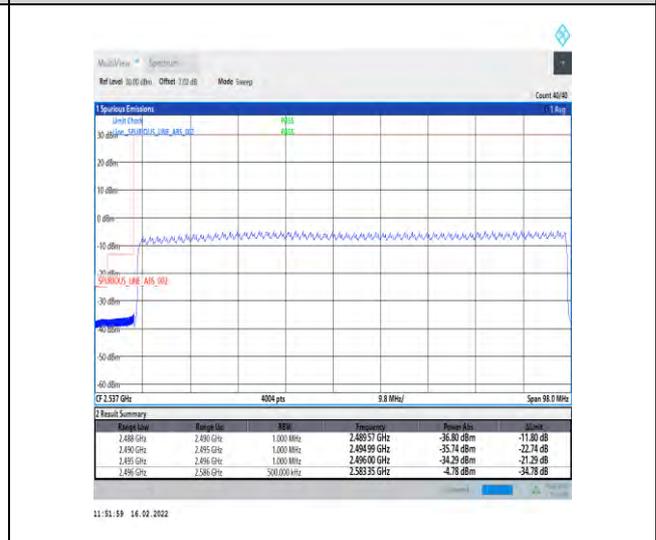
1-N41-30-90-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1@0-Ant2-PASS-see graph



1-N41-30-90-L-3-DFT-PI2BPSK-Outer\_Full-240@0-Ant2-PASS-see graph



1-N41-30-90-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant 2-PASS-see graph



1-N41-30-90-L-6-CP-QPSK-Outer\_Full-245@0-Ant 2-PASS-see graph

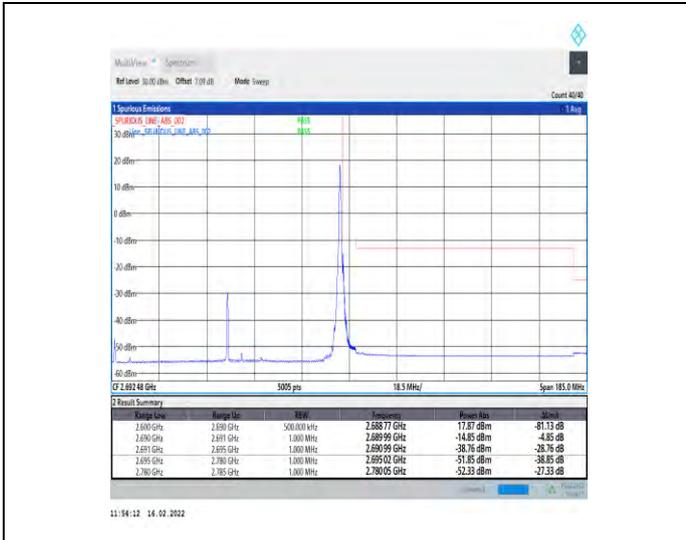


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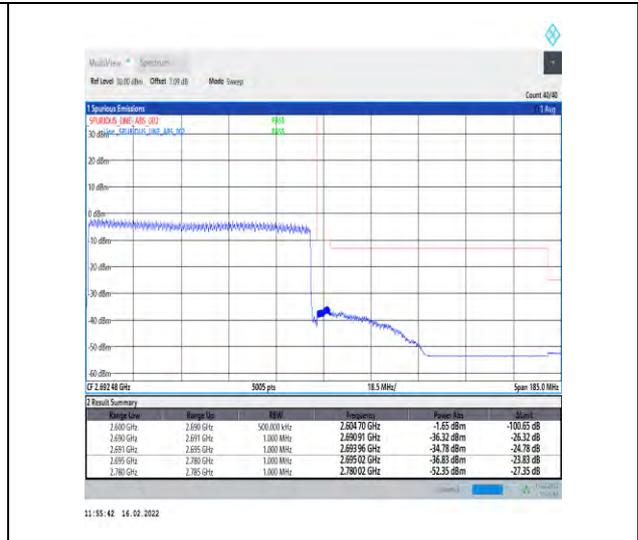
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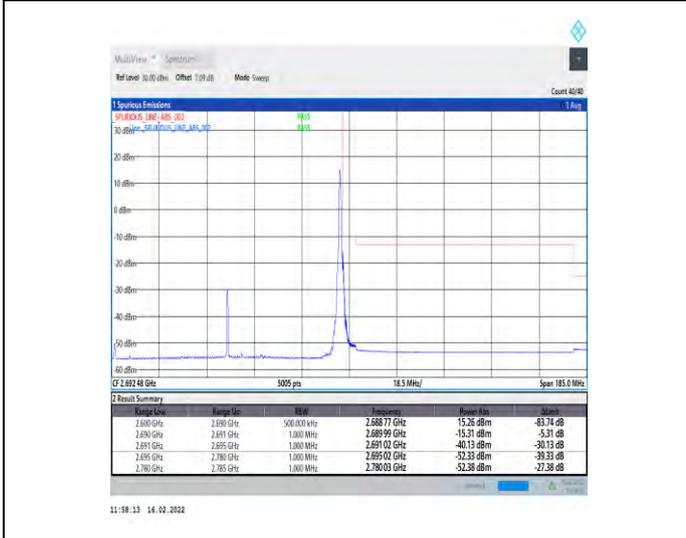
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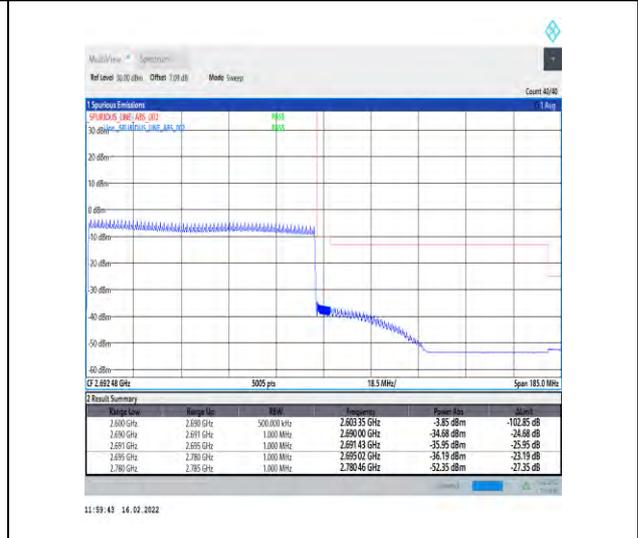
1-N41-30-90-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@244-Ant2-PASS-see graph



1-N41-30-90-H-3-DFT-PI2BPSK-Outer\_Full-240@0-Ant2-PASS-see graph



1-N41-30-90-H-5-CP-QPSK-Edge\_1RB\_Right-1@244-Ant2-PASS-see graph



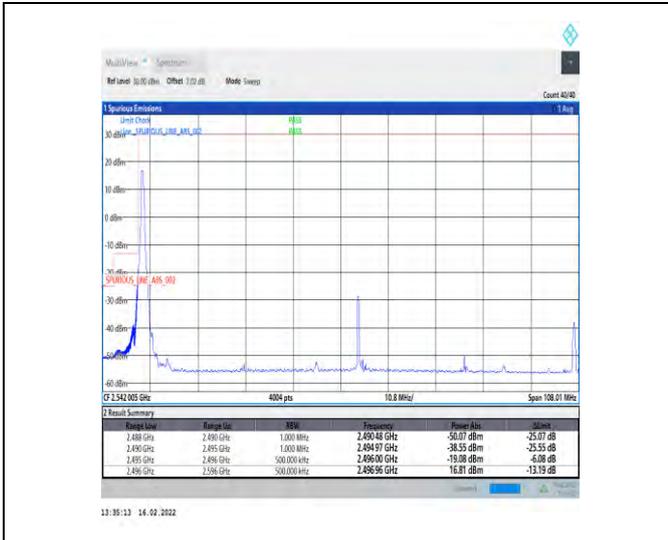
1-N41-30-90-H-6-CP-QPSK-Outer\_Full-245@0-Ant2-PASS-see graph



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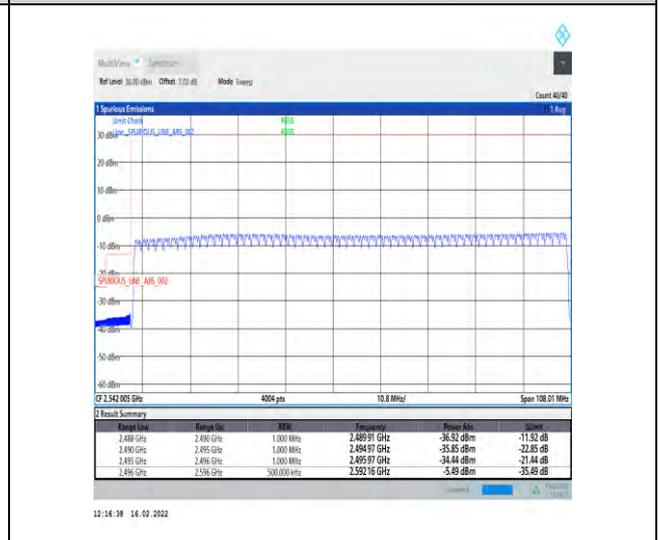
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0-Ant2-PASS-see graph



1-N41-30-100-L-3-DFT-PI2BPSK-Outer\_Full-270@  
0-Ant2-PASS-see graph



1-N41-30-100-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-A  
nt2-PASS-see graph



1-N41-30-100-L-6-CP-QPSK-Outer\_Full-273@0-A  
t2-PASS-see graph

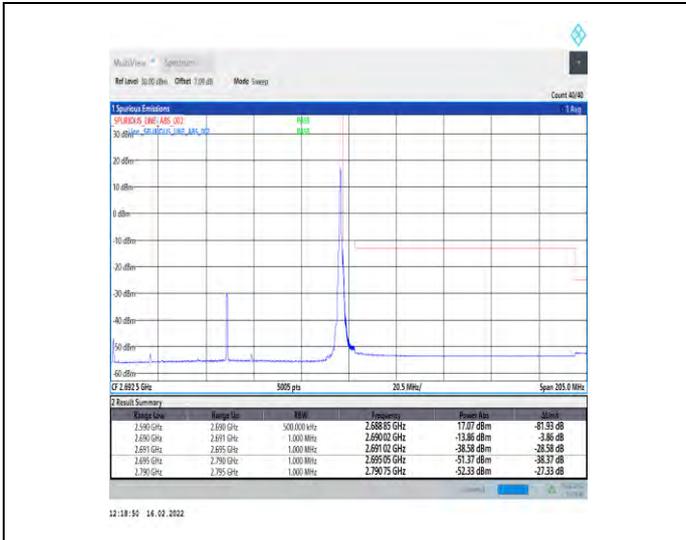


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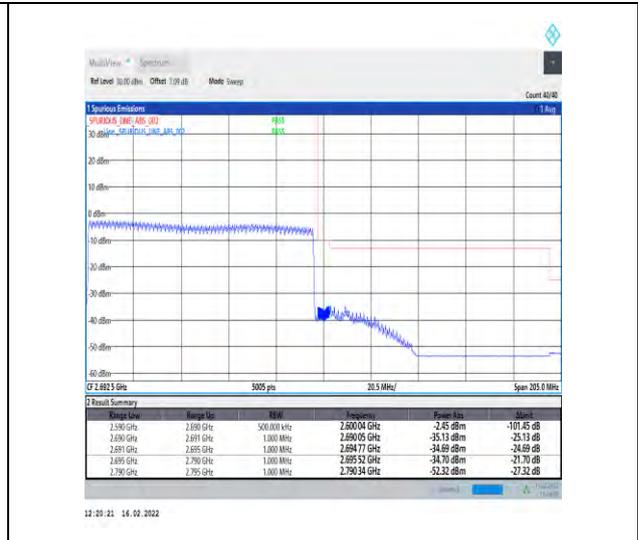
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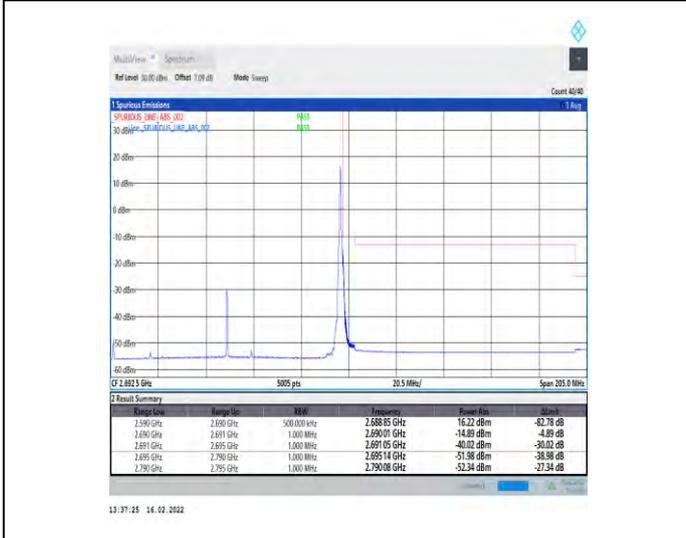
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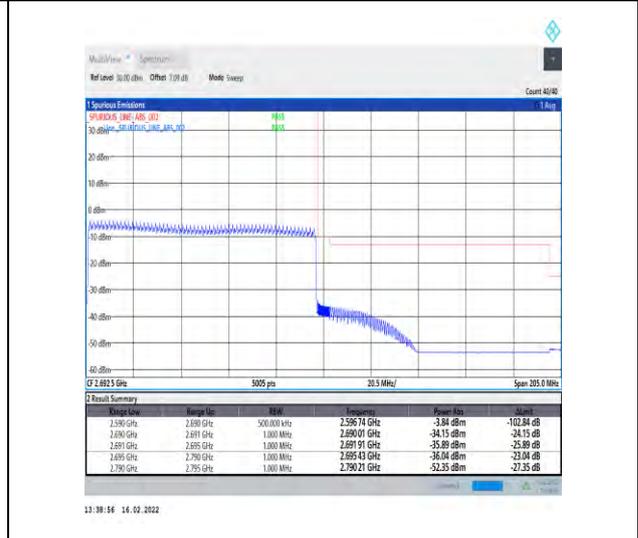
1-N41-30-100-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1 @272-Ant2-PASS-see graph



1-N41-30-100-H-3-DFT-PI2BPSK-Outer\_Full-270 @0-Ant2-PASS-see graph



1-N41-30-100-H-5-CP-QPSK-Edge\_1RB\_Right-1@272 -Ant2-PASS-see graph



1-N41-30-100-H-6-CP-QPSK-Outer\_Full-273@0-Ant2-PASS-see graph



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## Conducted Spurious Emission for SA

### Test Graphs

<p>1-N41-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1 @1-0.009-0.15-Ant2--63.87--55-PASS</p>	<p>1-N41-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1 @1-0.15-30-Ant2--60.35--45-PASS</p>
<p>1-N41-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1 @1-30-1000-Ant2--57.60--35-PASS</p>	<p>1-N41-30-100-L-1-DFT-PI2BPSK-Inner_1RB_Left-1 @1-1000-3000-Ant2--41.11--25-PASS</p>



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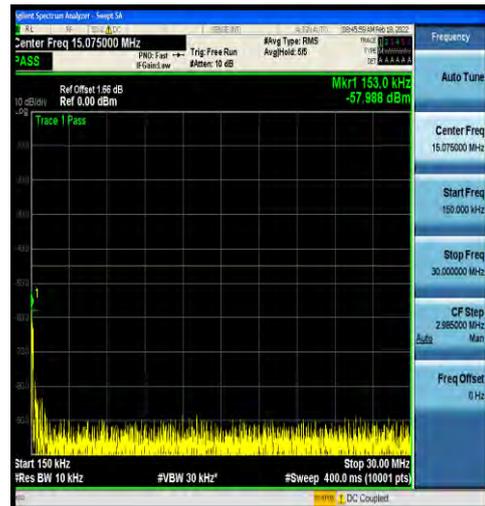
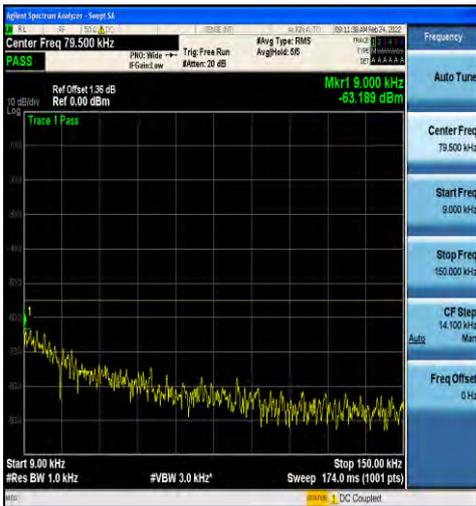
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1-N41-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
 @1-3000-12000-Ant2--44.31--25-PASS

1-N41-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
 @1-12000-27000-Ant2--29.18--25-PASS

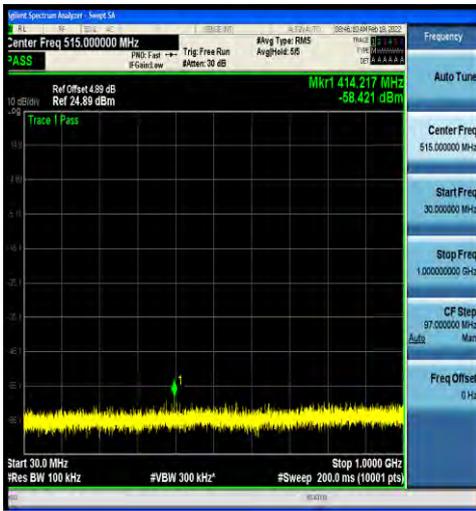


1-N41-30-100-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
 @1-0.009-0.15-Ant2--63.19--55-PASS

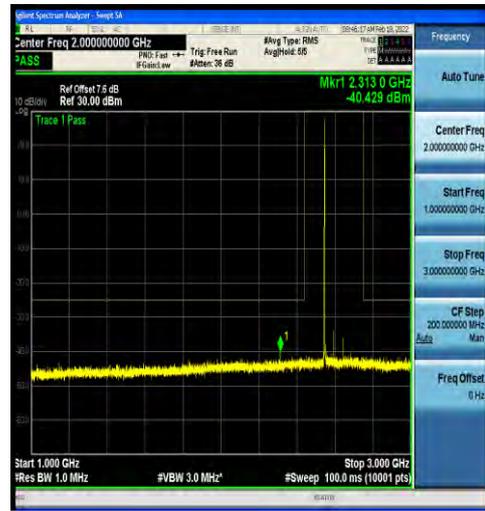
1-N41-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
 @1-0.15-30-Ant2--57.99--45-PASS



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1-N41-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @1-30-1000-Ant2--58.42--35-PASS



1-N41-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @1-1000-3000-Ant2--40.43--25-PASS

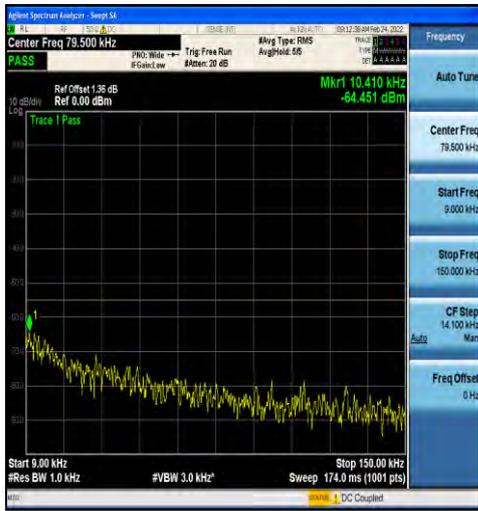


1-N41-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @1-3000-12000-Ant2--45.59--25-PASS

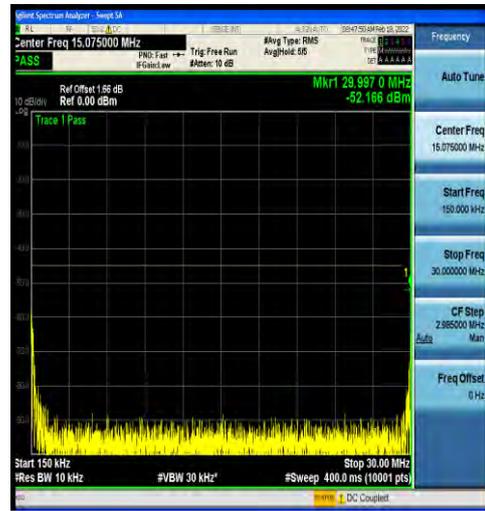


1-N41-30-100-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1 @1-12000-27000-Ant2--28.87--25-PASS

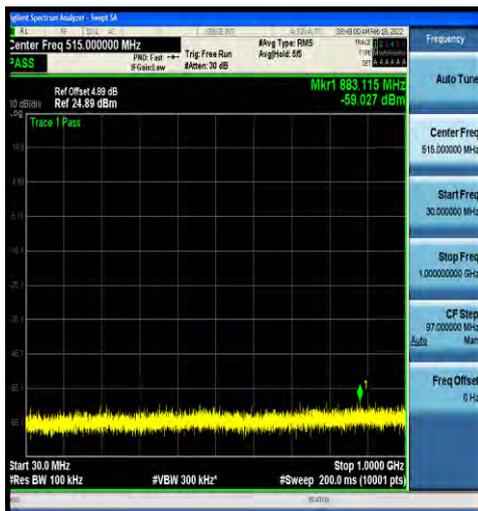




1-N41-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-0.009-0.15-Ant2--64.45--55-PASS



1-N41-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-0.15-30-Ant2--52.17--45-PASS



1-N41-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-30-1000-Ant2--59.03--35-PASS



1-N41-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-1000-3000-Ant2--41.04--25-PASS



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1-N41-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-3000-12000-Ant2--43.02--25-PASS



1-N41-30-100-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1  
@1-12000-27000-Ant2--28.94--25-PASS



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## Field Strength of Spurious Radiation

Test Band =SA\_Band 41\_ TM1 ANT2

Test Channel =Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.2	48.73	-107.58	-58.85	-25.00	33.85	165	255	Horizontal
2	7491.4286	55.93	-100.40	-44.47	-25.00	19.47	234	12	Horizontal
3	10004.4	44.09	-93.89	-49.80	-25.00	24.80	198	12	Horizontal
4	12505.5	42.34	-91.38	-49.04	-25.00	24.04	174	80	Horizontal
5	15006.6	42.21	-90.07	-47.86	-25.00	22.86	120	357	Horizontal
6	17507.7	39.59	-86.50	-46.91	-25.00	21.91	298	26	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.2	49.74	-107.58	-57.84	-25.00	32.84	185	14	Vertical
2	7503.3	48.15	-100.34	-52.19	-25.00	27.19	245	314	Vertical
3	10004.4	43.64	-93.89	-50.25	-25.00	25.25	162	161	Vertical
4	12505.5	44.13	-91.38	-47.25	-25.00	22.25	188	57	Vertical
5	15006.6	41.52	-90.07	-48.55	-25.00	23.55	125	209	Vertical
6	17507.7	38.70	-86.50	-47.80	-25.00	22.80	196	69	Vertical



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**Test Band =SA\_Band 41\_TM1 ANT2**

**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	5096.16	50.51	-106.96	-56.45	-25.00	31.45	165	188	Horizontal
2	7632.8571	67.92	-99.78	-31.86	-25.00	6.86	123	45	Horizontal
3	10192.32	42.85	-93.11	-50.26	-25.00	25.26	193	57	Horizontal
4	12740.4	42.78	-91.03	-48.25	-25.00	23.25	234	304	Horizontal
5	15288.48	42.41	-90.16	-47.75	-25.00	22.75	177	3	Horizontal
6	17836.56	40.21	-84.21	-44.00	-25.00	19.00	221	105	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5096.16	49.22	-106.96	-57.74	-25.00	32.74	184	300	Vertical
2	7632.8571	56.91	-99.78	-42.87	-25.00	17.87	235	266	Vertical
3	10192.32	42.48	-93.11	-50.63	-25.00	25.63	126	291	Vertical
4	12740.4	42.50	-91.03	-48.53	-25.00	23.53	233	356	Vertical
5	15288.48	42.30	-90.16	-47.86	-25.00	22.86	194	3	Vertical
6	17836.56	38.91	-84.21	-45.30	-25.00	20.30	274	225	Vertical



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**Test Band =SA\_Band 41\_TM1 ANT2**  
**Test Channel =High Channel**

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3527.1429	51.57	-111.36	-59.79	-25.00	34.79	135	151	Horizontal
2	5190.18	48.66	-106.82	-58.16	-25.00	33.16	184	15	Horizontal
3	7772.1429	65.66	-99.03	-33.37	-25.00	8.37	196	127	Horizontal
4	10380.36	41.72	-92.87	-51.15	-25.00	26.15	237	360	Horizontal
5	12975.45	42.41	-90.59	-48.18	-25.00	23.18	175	185	Horizontal
6	15570.54	41.93	-90.76	-48.83	-25.00	23.83	125	255	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4035	49.87	-109.90	-60.03	-25.00	35.03	185	359	Vertical
2	5190.18	49.20	-106.82	-57.62	-25.00	32.62	234	3	Vertical
3	7772.1429	53.36	-99.03	-45.67	-25.00	20.67	142	292	Vertical
4	10380.36	42.87	-92.87	-50.00	-25.00	25.00	122	341	Vertical
5	12975.45	42.20	-90.59	-48.39	-25.00	23.39	169	57	Vertical
6	15570.54	40.09	-90.76	-50.67	-25.00	25.67	194	283	Vertical

Remark: all the antenna were tested, but only showed the worst case in this report.



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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
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-22.884000	-0.008825	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-17.132000	-0.006607	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-18.565000	-0.007160	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VH	NT	-16.313000	-0.006291	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VN	NT	-19.749000	-0.007616	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VL	NT	-20.527000	-0.007916	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-9.793000	-0.003777	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-20.030000	-0.007725	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-19.459000	-0.007504	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-21.744000	-0.008386	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	-17.683000	-0.006820	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-21.346000	-0.008232	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-21.626000	-0.008340	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-16.356000	-0.006308	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-22.744000	-0.008771	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-30	-24.495000	-0.009447	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-20	-7.315000	-0.002821	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-10	-16.873000	-0.006507	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	0	-19.991000	-0.007710	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	10	-19.427000	-0.007492	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	20	-14.702000	-0.005670	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	30	-15.822000	-0.006102	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	40	-16.995000	-0.006554	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	50	-15.021000	-0.005793	PASS

The End



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