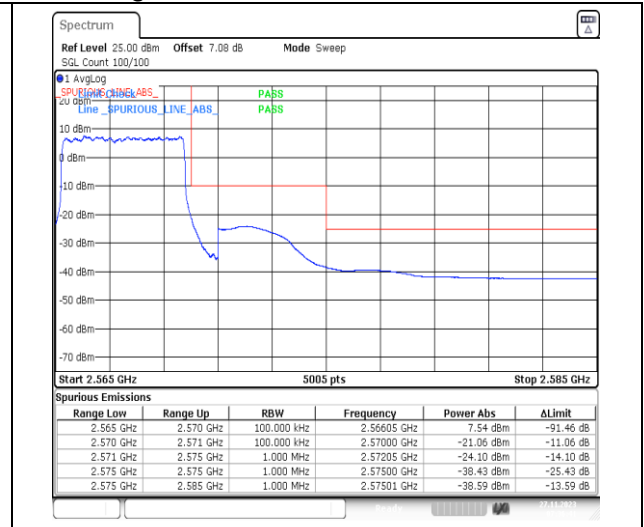
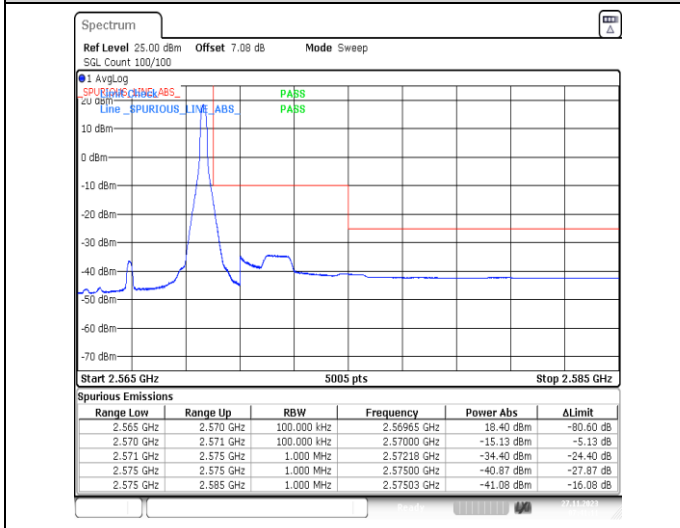


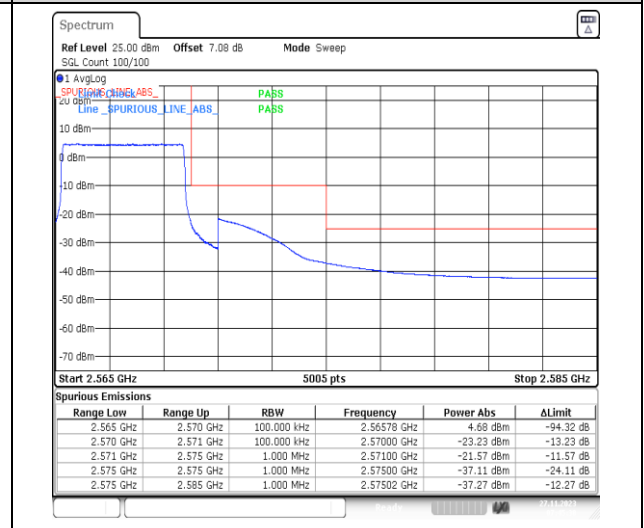
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1-N7-PC3-15-5-H-3-DFT-PI2BPSK-Outer\_Full-25 @0-Ant31-1--PASS-see graph



1-N7-PC3-15-5-H-5-CP-QPSK-Edge\_1RB\_Right-1 @24-Ant31-1--PASS-see graph



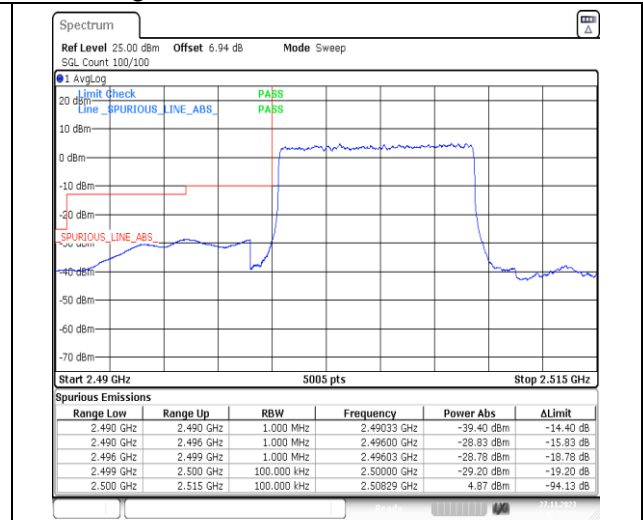
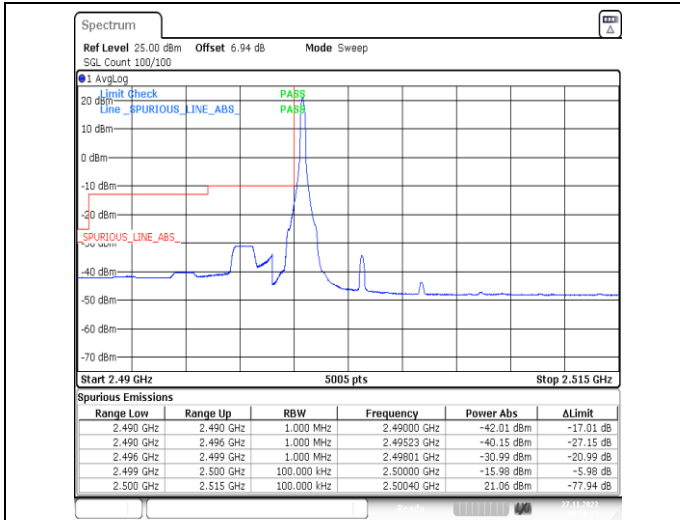
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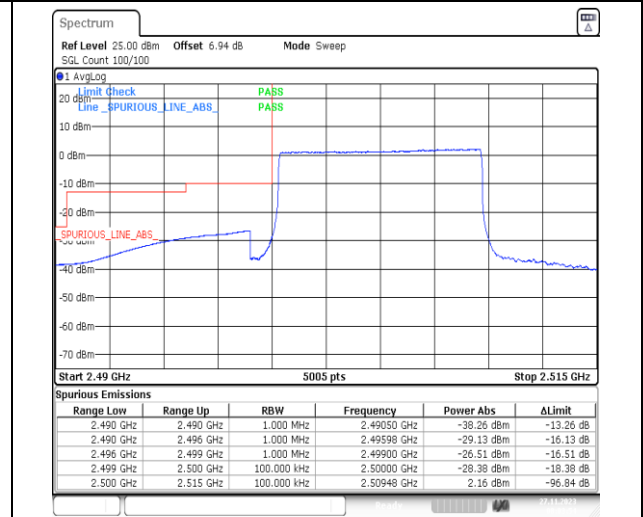
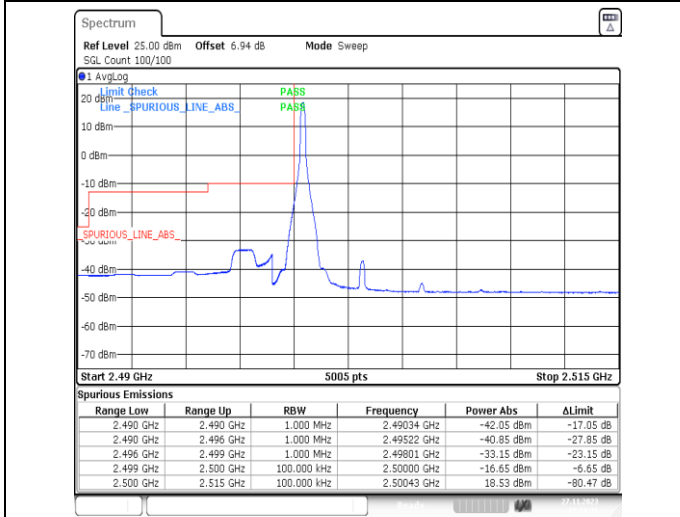
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1-N7-PC3-15-10-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1 @0-Ant31-1--PASS-see graph

1-N7-PC3-15-10-L-3-DFT-PI2BPSK-Outer\_Full-50 @0-Ant31-1--PASS-see graph



1-N7-PC3-15-10-L-4-CP-QPSK-Edge\_1RB\_Left-1 @0-Ant31-1--PASS-see graph

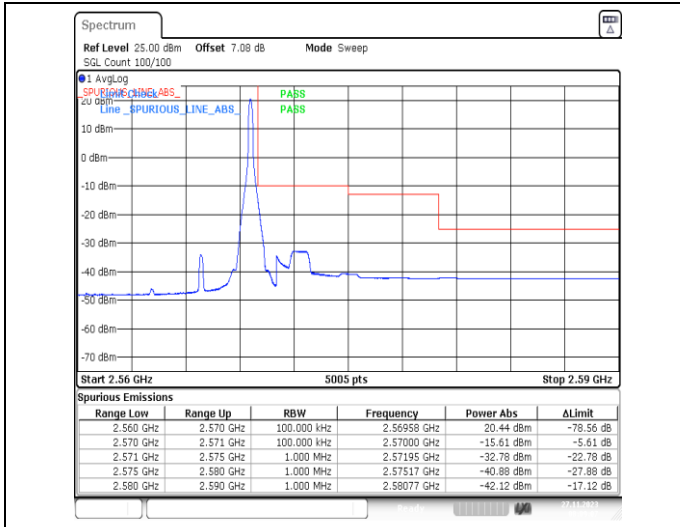
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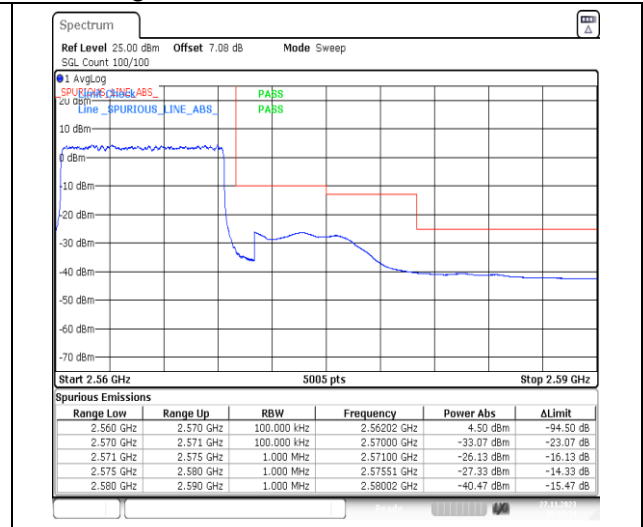
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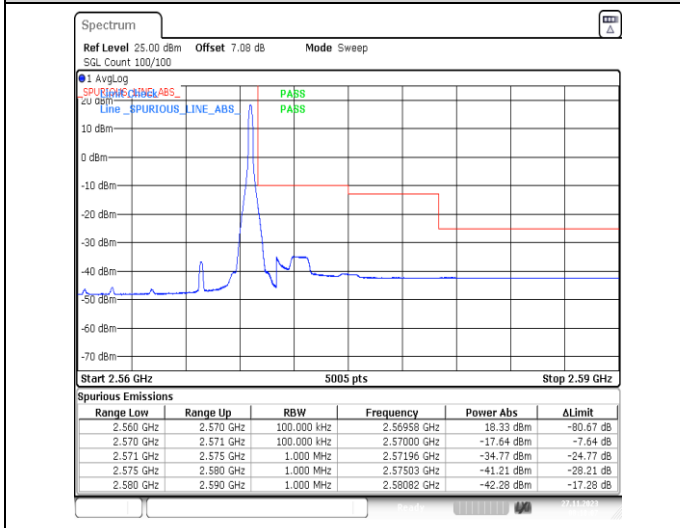
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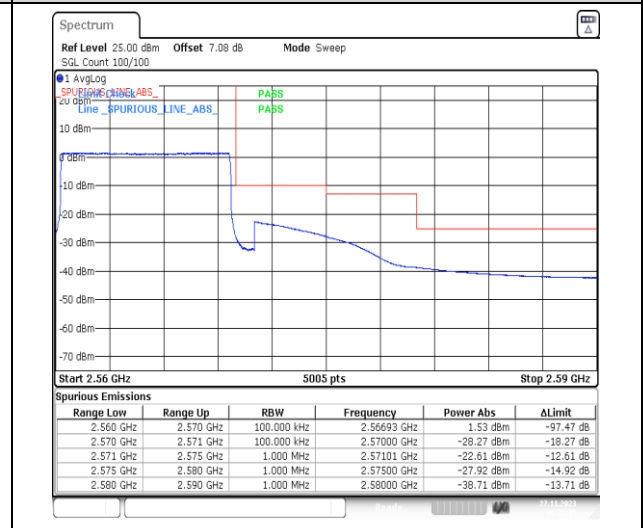
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1-N7-PC3-15-10-H-3-DFT-PI2BPSK-Outer\_Full-50@0-Ant31-1--PASS-see graph



1-N7-PC3-15-10-H-5-CP-QPSK-Edge\_1RB\_Right-1@51-Ant31-1--PASS-see graph



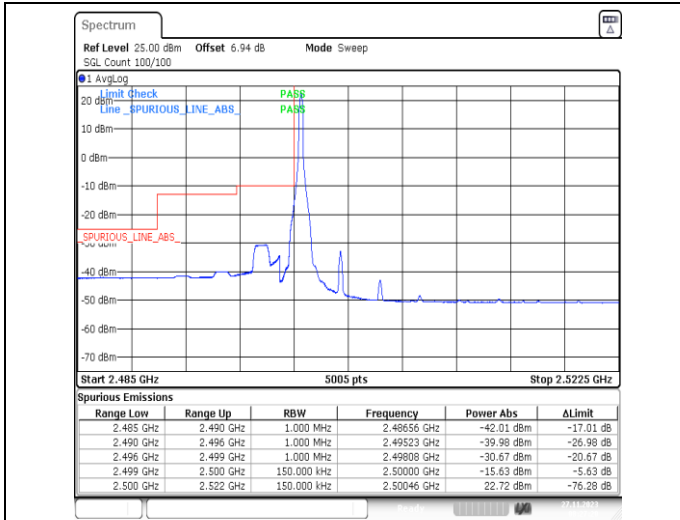
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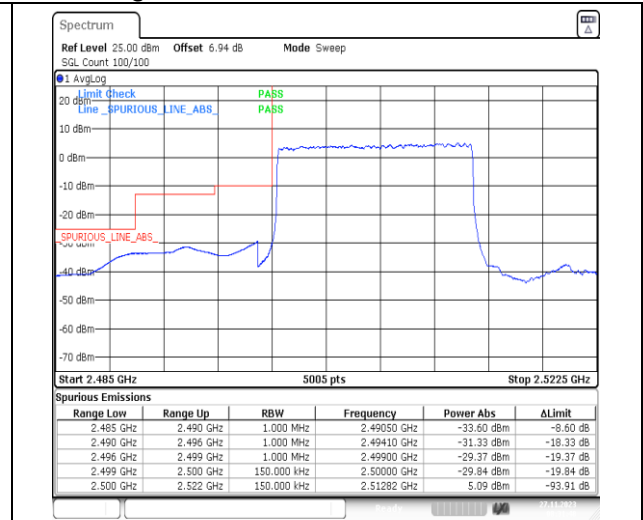
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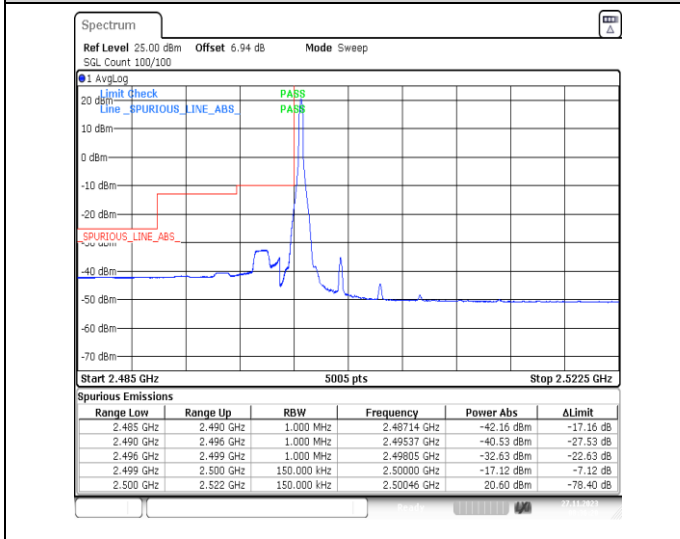
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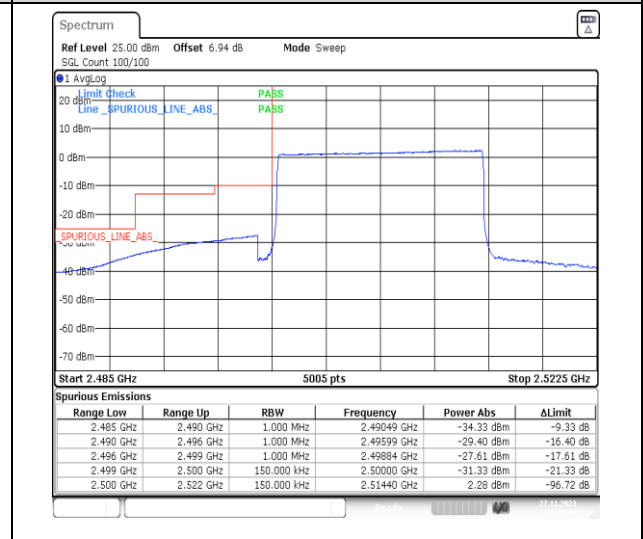
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@0-Ant31-1--PASS-see graph



1-N7-PC3-15-15-L-3-DFT-PI2BPSK-Outer\_Full-75  
@0-Ant31-1--PASS-see graph



1-N7-PC3-15-15-L-4-CP-QPSK-Edge\_1RB\_Left-1 @0-Ant31-1--PASS-see graph



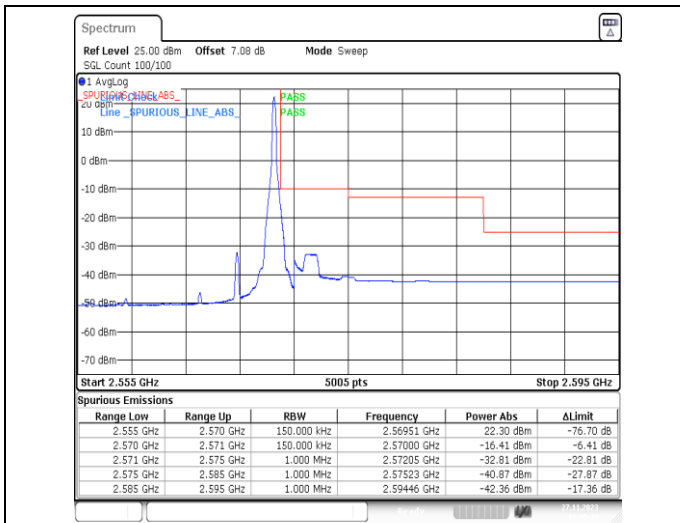
1-N7-PC3-15-15-L-6-CP-QPSK-Outer\_Full-79 @0-Ant31-1--PASS-see graph



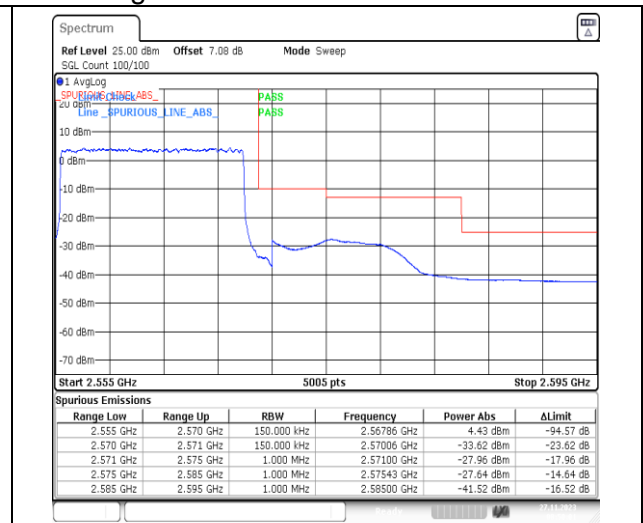
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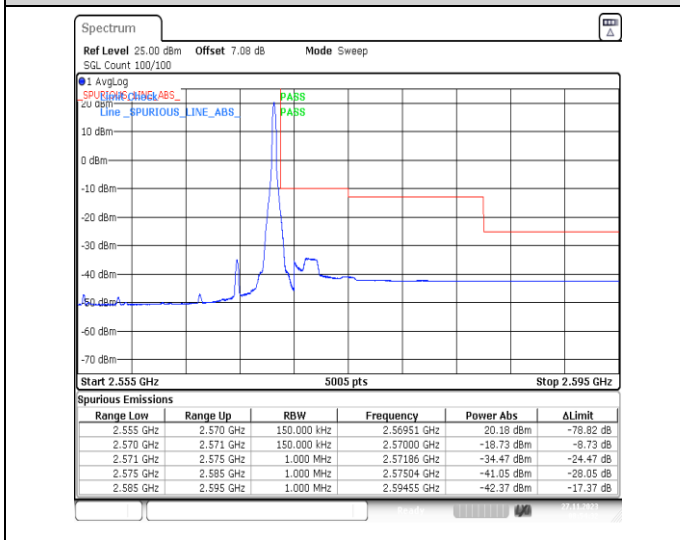
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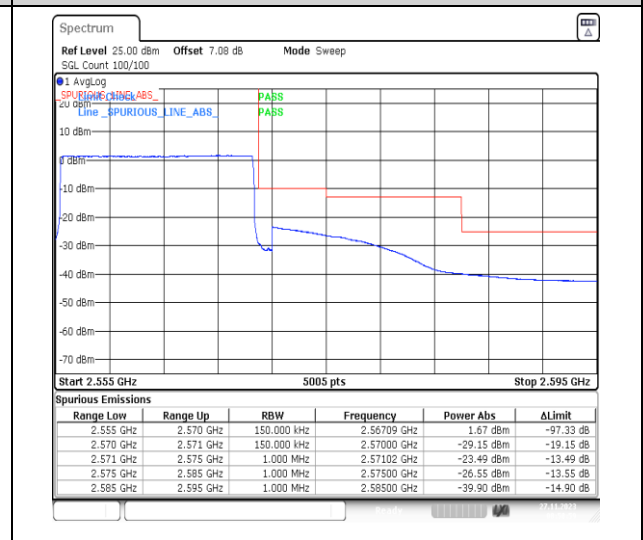
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1-N7-PC3-15-15-H-3-DFT-PI2BPSK-Outer\_Full-75@0-Ant31-1--PASS-see graph



1-N7-PC3-15-15-H-5-CP-QPSK-Edge\_1RB\_Right-1@78-Ant31-1--PASS-see graph



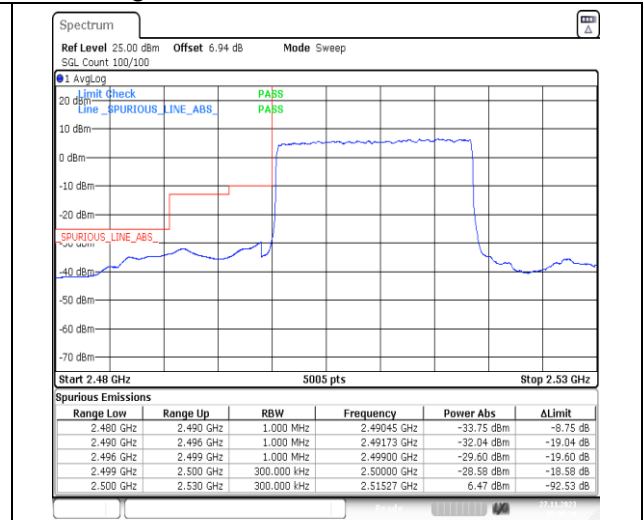
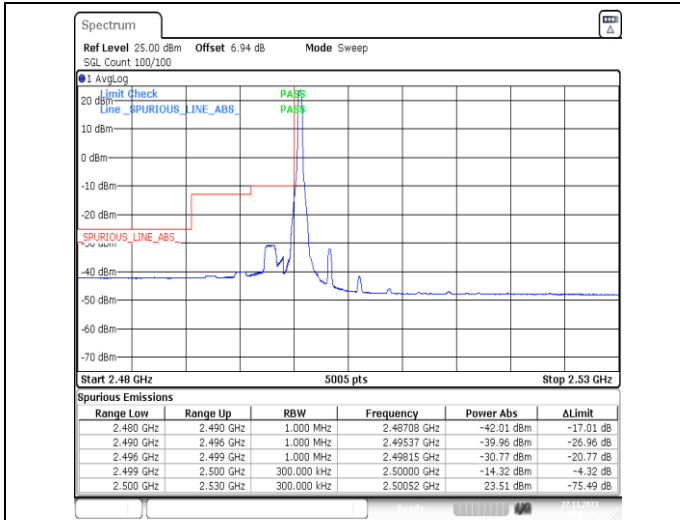
1-N7-PC3-15-15-H-6-CP-QPSK-Outer\_Full-79@0-Ant31-1--PASS-see graph



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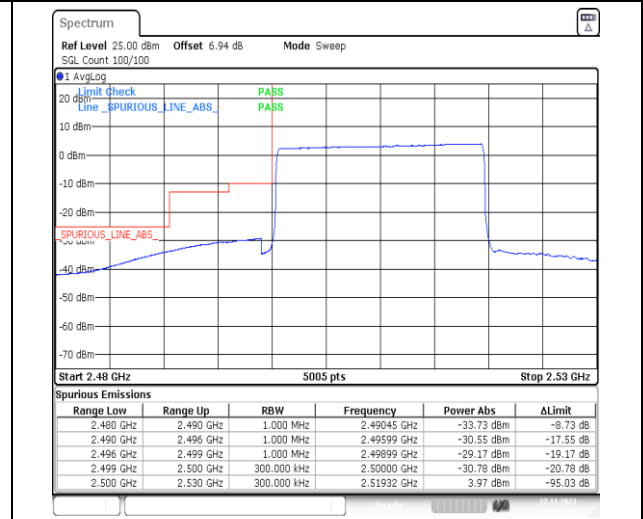
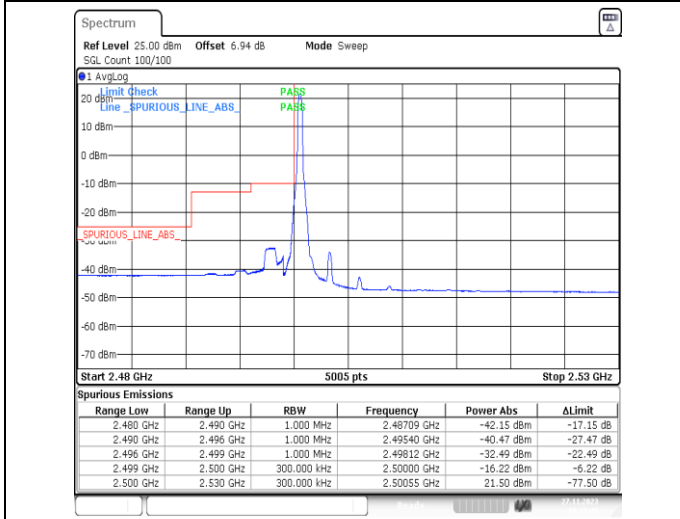
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1-N7-PC3-15-20-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1 @0-Ant31-1--PASS-see graph

1-N7-PC3-15-20-L-3-DFT-PI2BPSK-Outer\_Full-10 0@0-Ant31-1--PASS-see graph



1-N7-PC3-15-20-L-4-CP-QPSK-Edge\_1RB\_Left-1 @0-Ant31-1--PASS-see graph

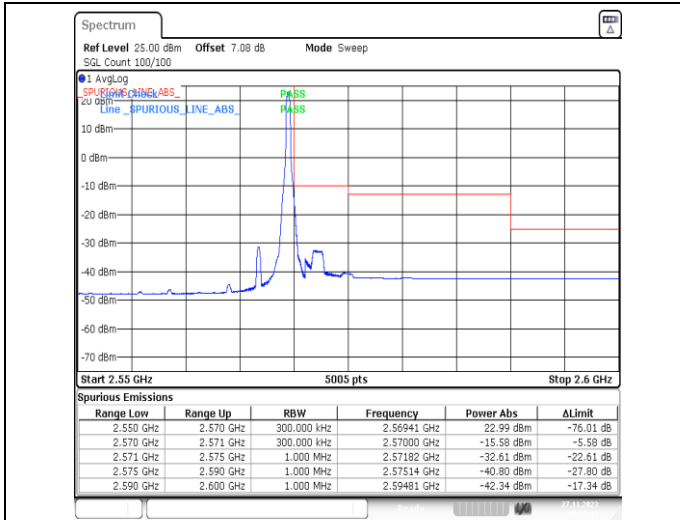
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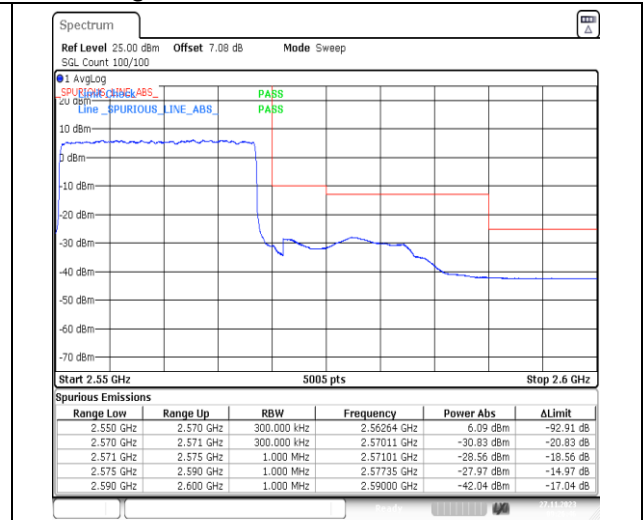
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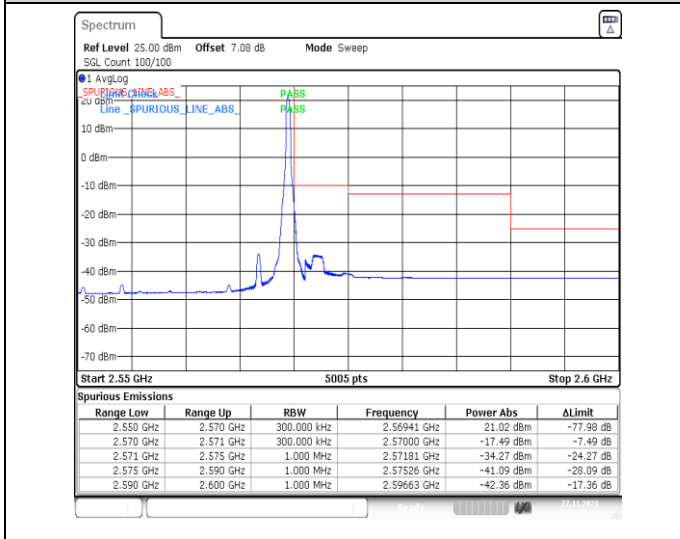
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1-N7-PC3-15-20-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@105-Ant31-1--PASS-see graph



1-N7-PC3-15-20-H-3-DFT-PI2BPSK-Outer\_Full-100@0-Ant31-1--PASS-see graph



1-N7-PC3-15-20-H-5-CP-QPSK-Edge\_1RB\_Right-1@105-Ant31-1--PASS-see graph



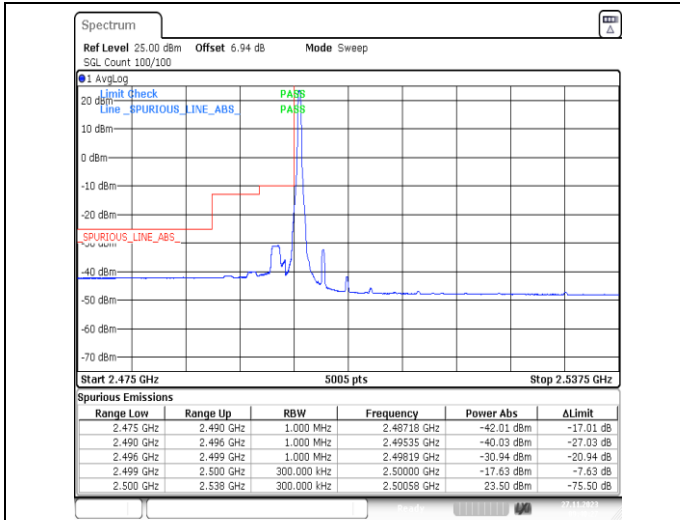
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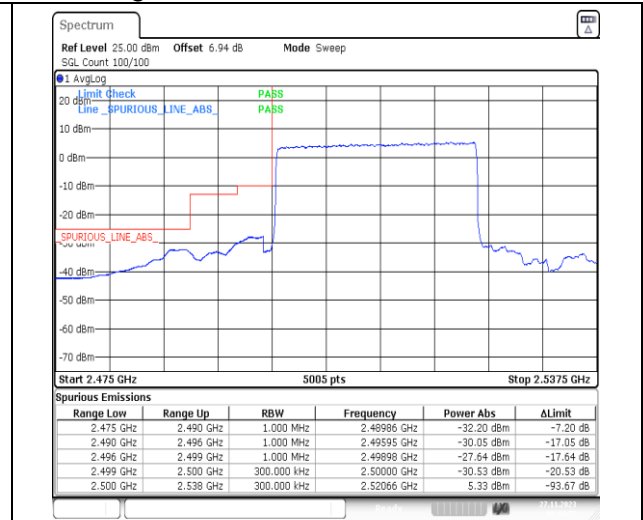
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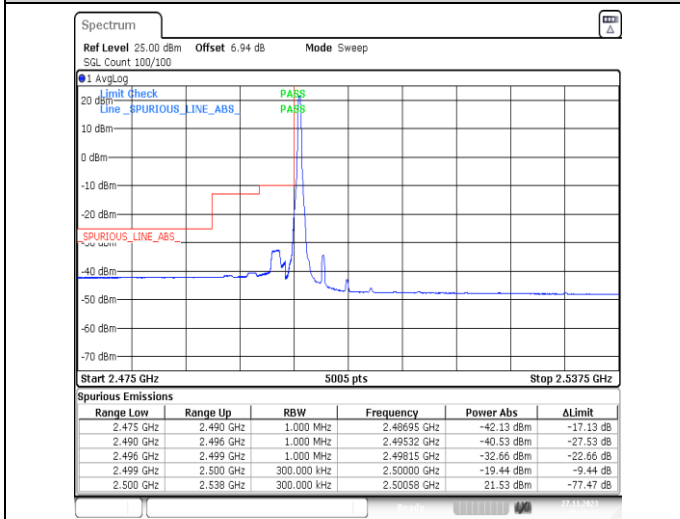
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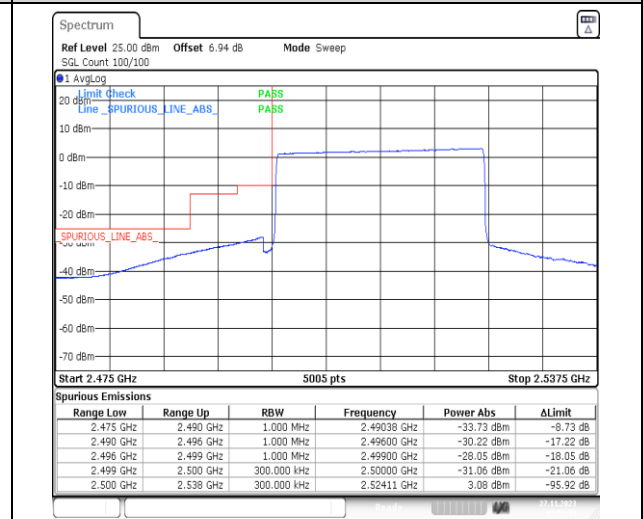
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@0-Ant31-1--PASS-see graph



1-N7-PC3-15-25-L-3-DFT-PI2BPSK-Outer\_Full-12  
8@0-Ant31-1--PASS-see graph



1-N7-PC3-15-25-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-  
Ant31-1--PASS-see graph



1-N7-PC3-15-25-L-6-CP-QPSK-Outer\_Full-133@0-  
-Ant31-1--PASS-see graph

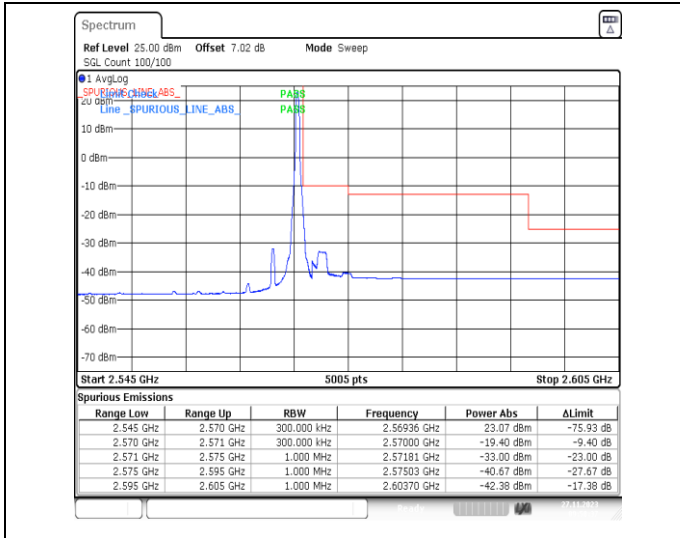


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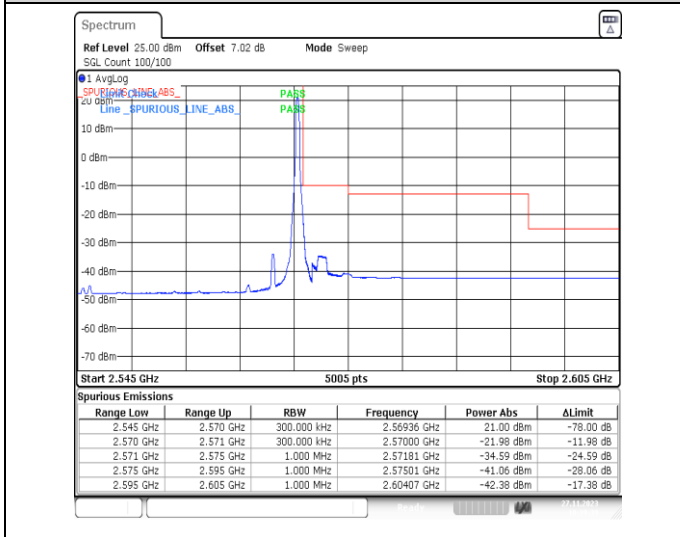




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1-N7-PC3-15-25-H-3-DFT-PI2BPSK-Outer\_Full-128@0-Ant31-1--PASS-see graph



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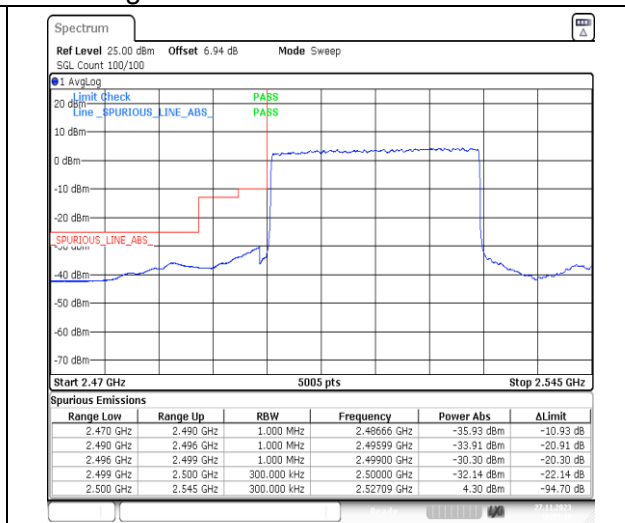
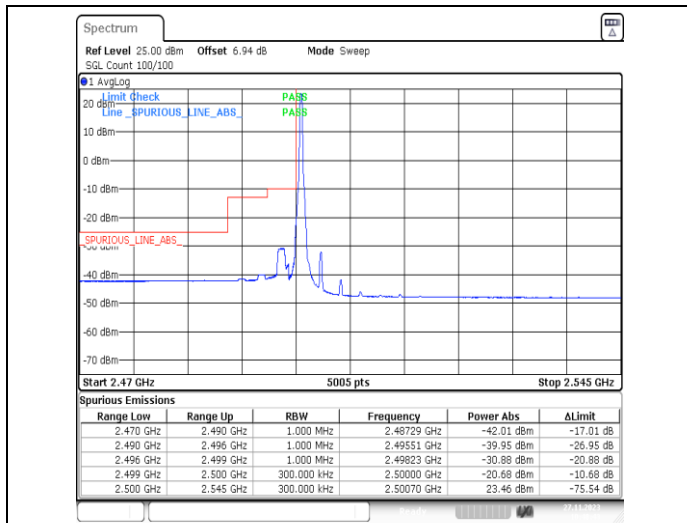
1-N7-PC3-15-25-H-6-CP-QPSK-Outer\_Full-133@0-Ant31-1--PASS-see graph



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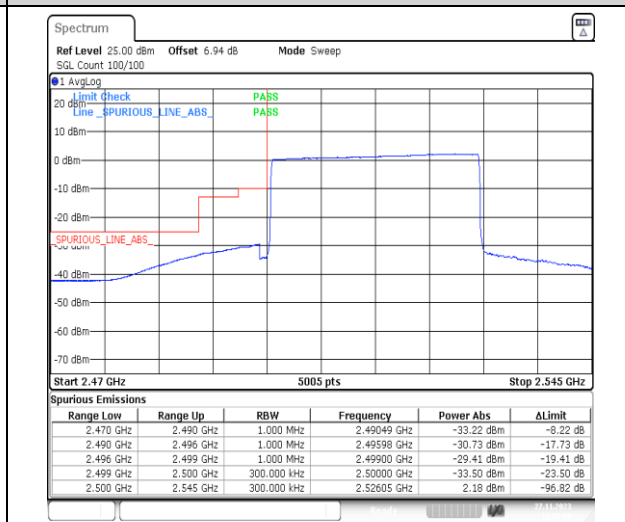
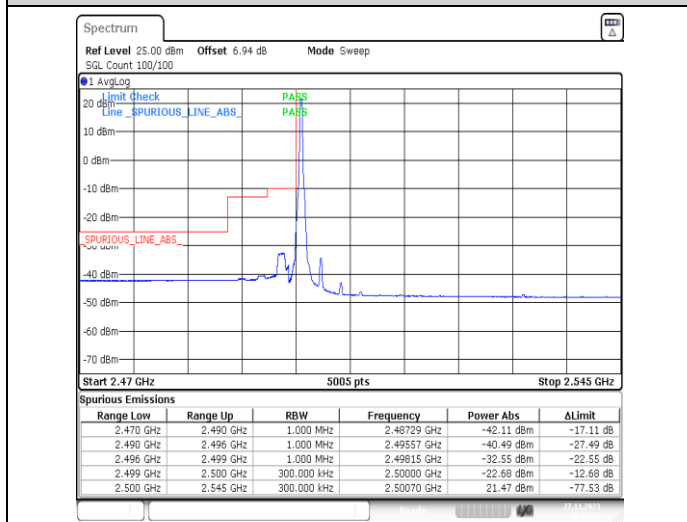
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1-N7-PC3-15-30-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1 @0-Ant31-1--PASS-see graph

1-N7-PC3-15-30-L-3-DFT-PI2BPSK-Outer\_Full-16 0@0-Ant31-1--PASS-see graph



1-N7-PC3-15-30-L-4-CP-QPSK-Edge\_1RB\_Left-1 @0-Ant31-1--PASS-see graph

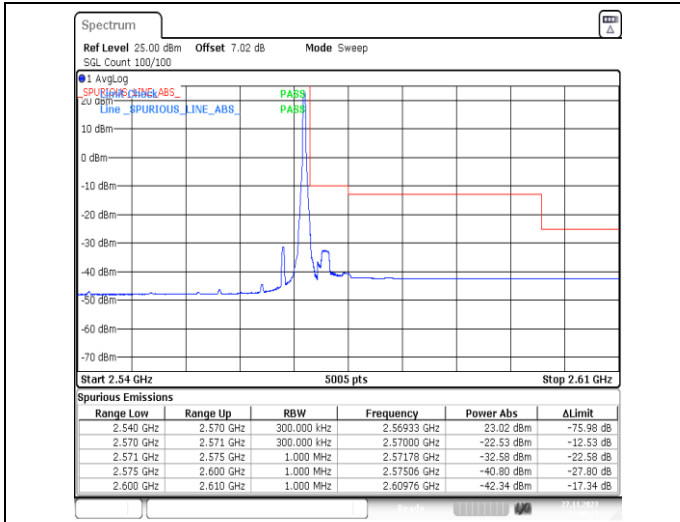
1-N7-PC3-15-30-L-6-CP-QPSK-Outer\_Full-160 @0-Ant31-1--PASS-see graph



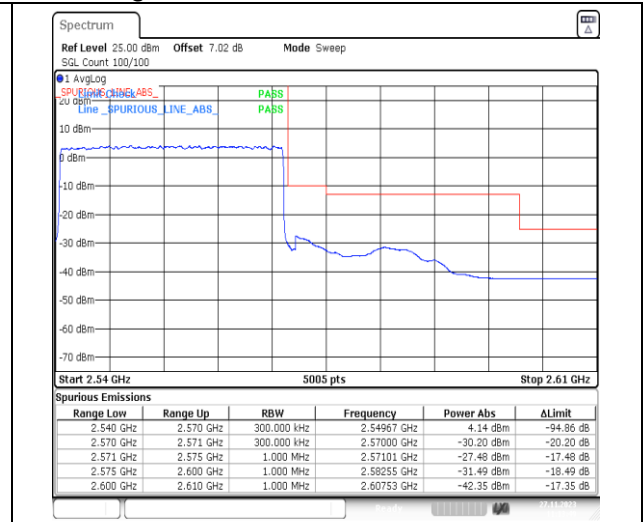
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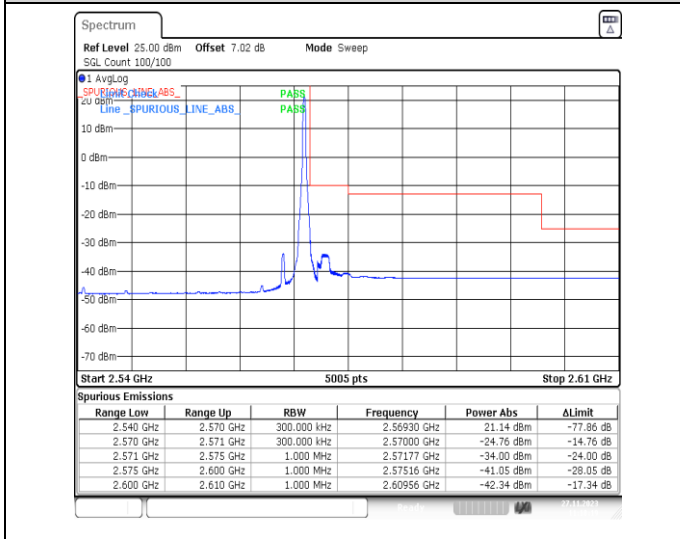
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1-N7-PC3-15-30-H-2-DFT-PI2BPSK-Edge\_1RB\_Right-1@159-Ant31-1--PASS-see graph



1-N7-PC3-15-30-H-3-DFT-PI2BPSK-Outer\_Full-160@0-Ant31-1--PASS-see graph



1-N7-PC3-15-30-H-5-CP-QPSK-Edge\_1RB\_Right-1@159-Ant31-1--PASS-see graph



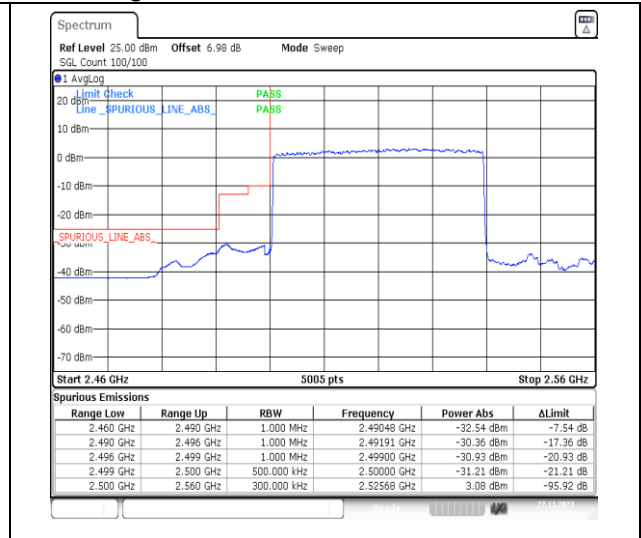
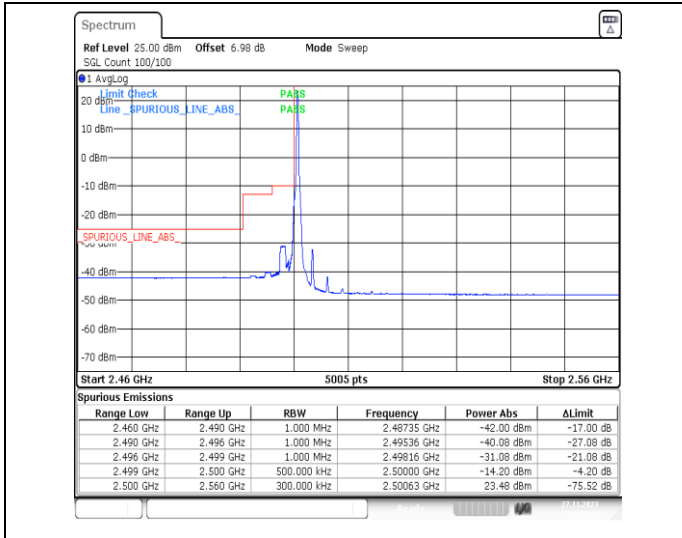
1-N7-PC3-15-30-H-6-CP-QPSK-Outer\_Full-160@0-Ant31-1--PASS-see graph



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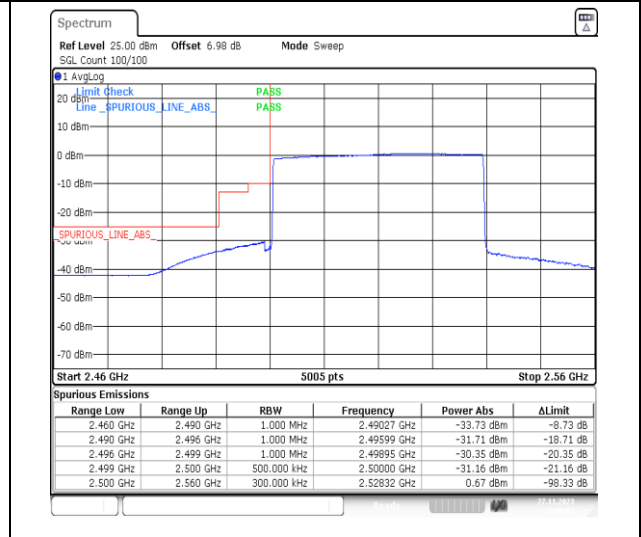
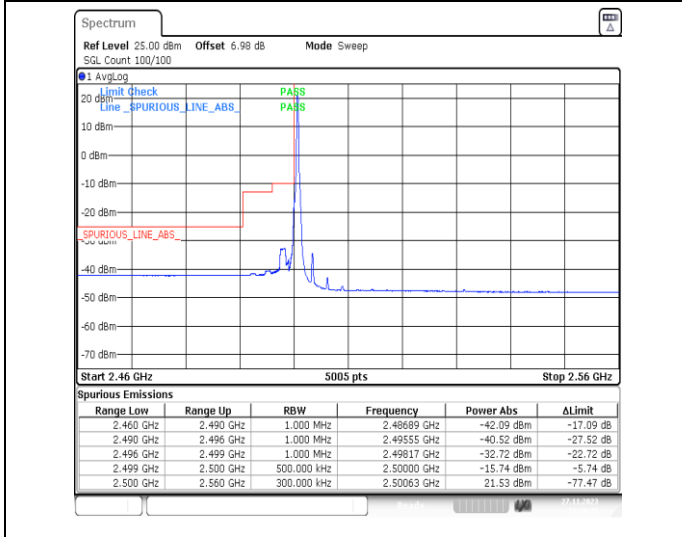
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1-N7-PC3-15-40-L-1-DFT-PI2BPSK-Edge\_1RB\_Left-1 @0-Ant31-1--PASS-see graph

1-N7-PC3-15-40-L-3-DFT-PI2BPSK-Outer\_Full-21 6@0-Ant31-1--PASS-see graph



1-N7-PC3-15-40-L-4-CP-QPSK-Edge\_1RB\_Left-1@0-Ant31-1--PASS-see graph

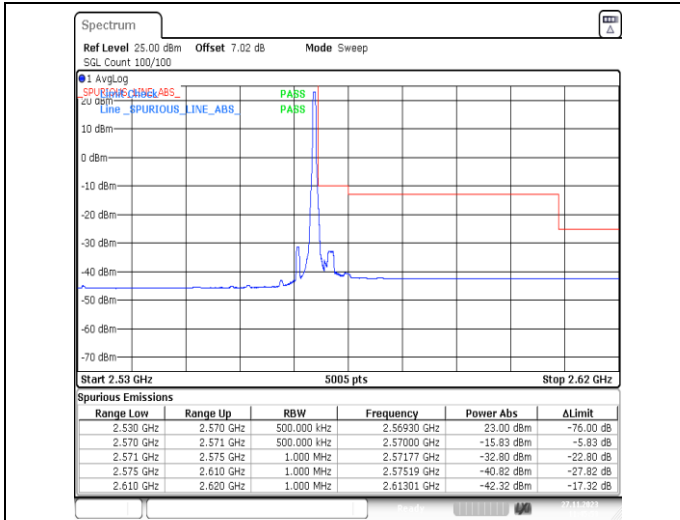
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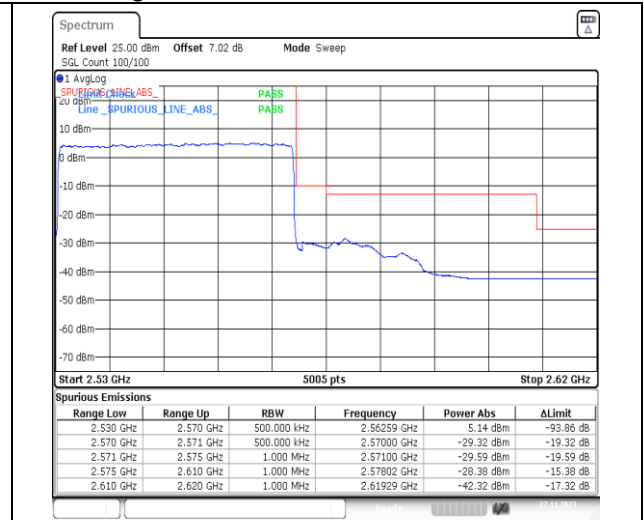
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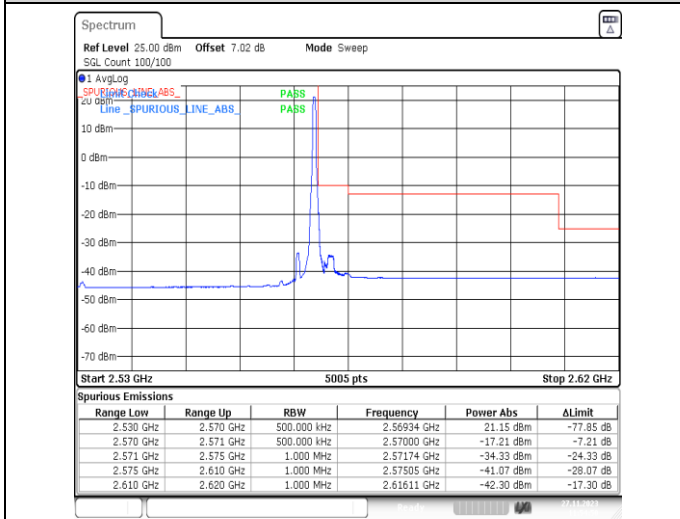
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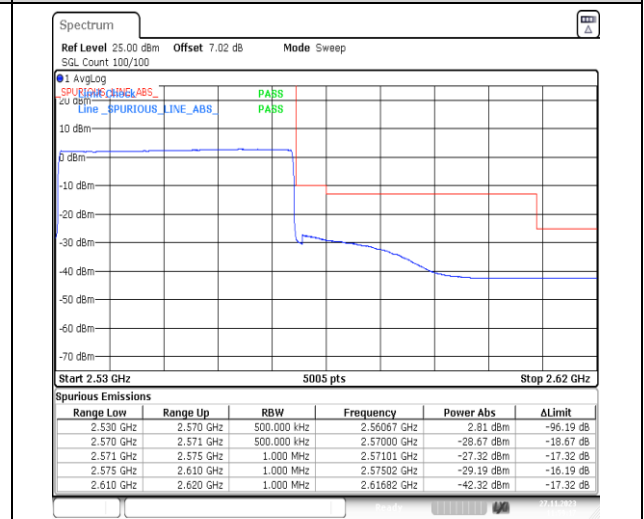
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1-N7-PC3-15-40-H-3-DFT-PI2BPSK-Outer\_Full-216@0-Ant31-1--PASS-see graph



1-N7-PC3-15-40-H-5-CP-QPSK-Edge\_1RB\_Right-1@215-Ant31-1--PASS-see graph



1-N7-PC3-15-40-H-6-CP-QPSK-Outer\_Full-216@0-Ant31-1--PASS-see graph



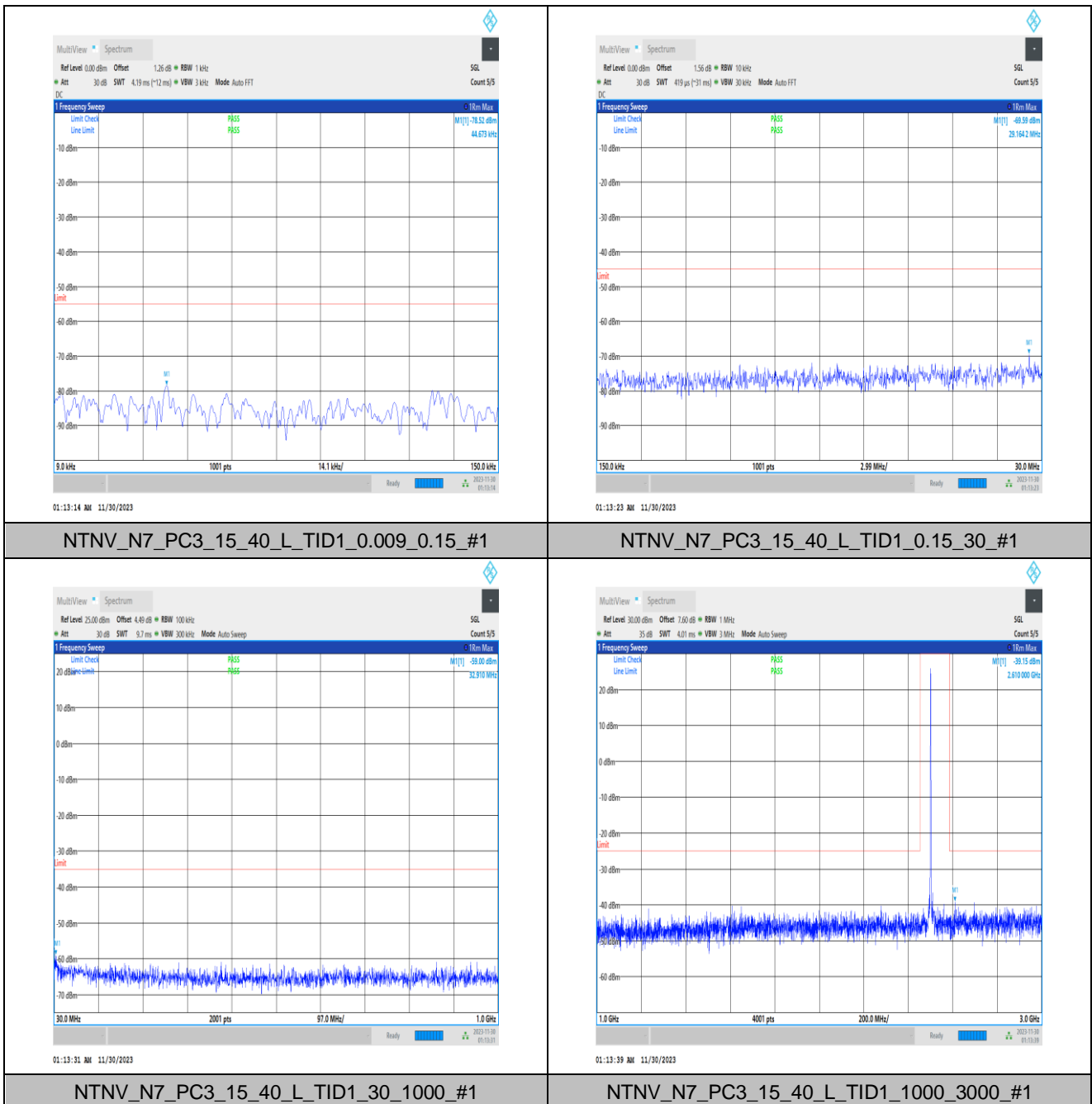
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## Conducted Spurious Emission for SA

### Test Graphs



NTNV\_N7\_PC3\_15\_40\_L\_TID1\_0.009\_0.15\_#1

NTNV\_N7\_PC3\_15\_40\_L\_TID1\_0.15\_30\_#1

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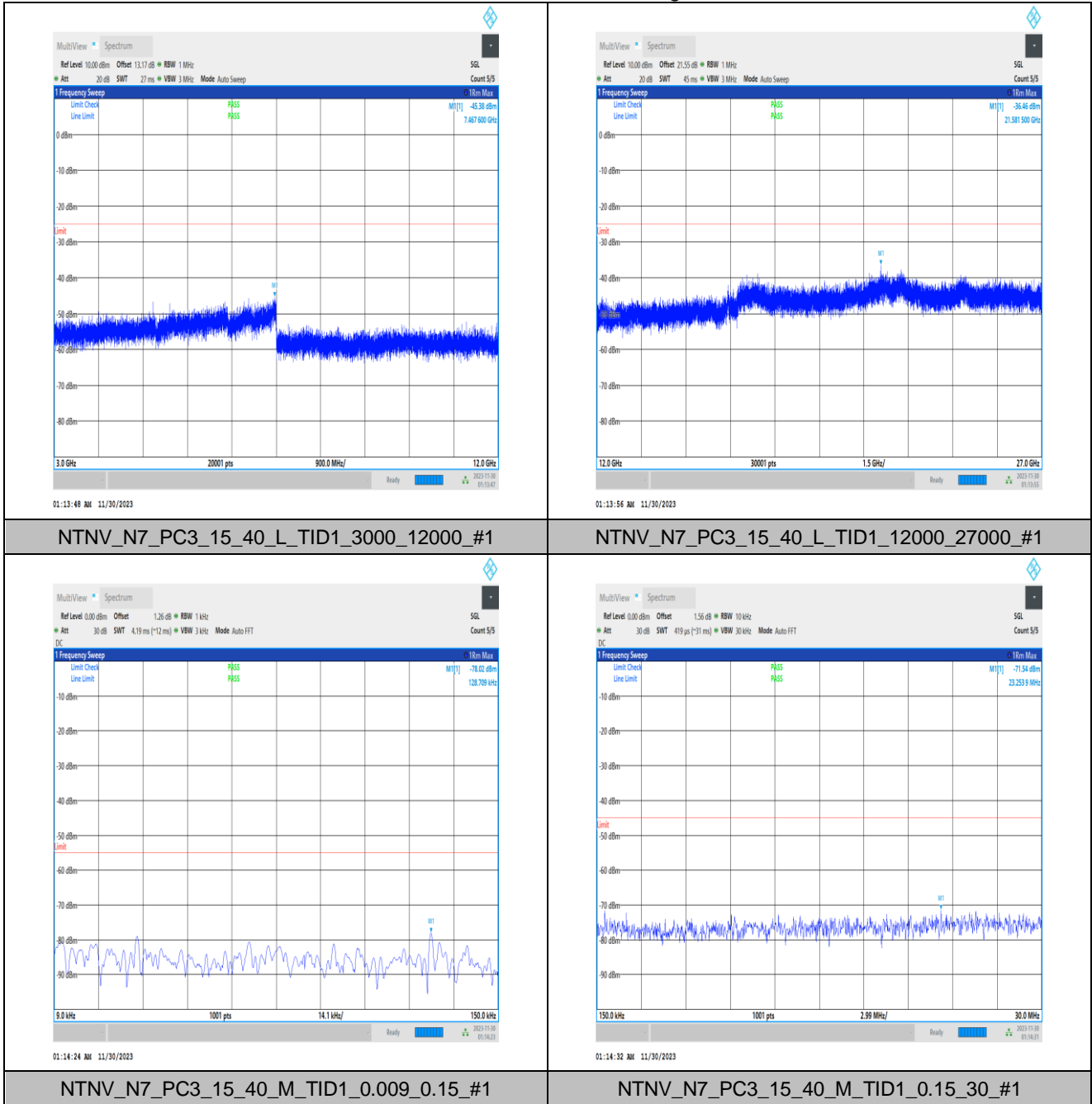
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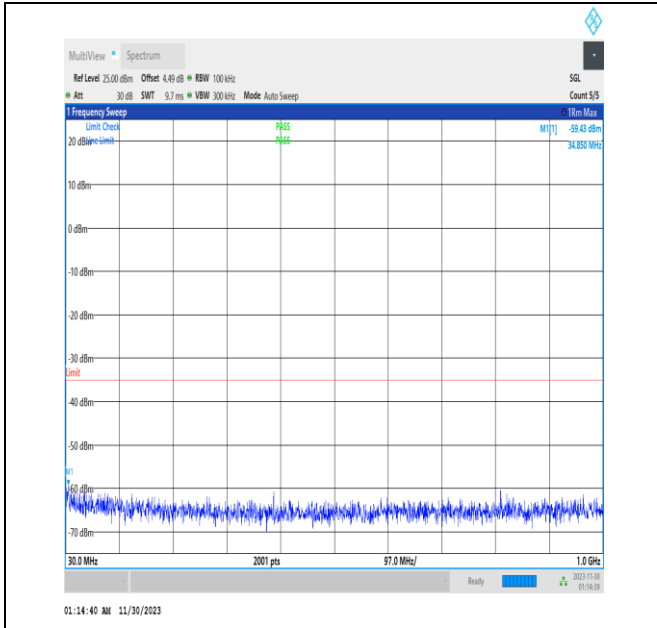
Member of the SGS Group (SGS SA)



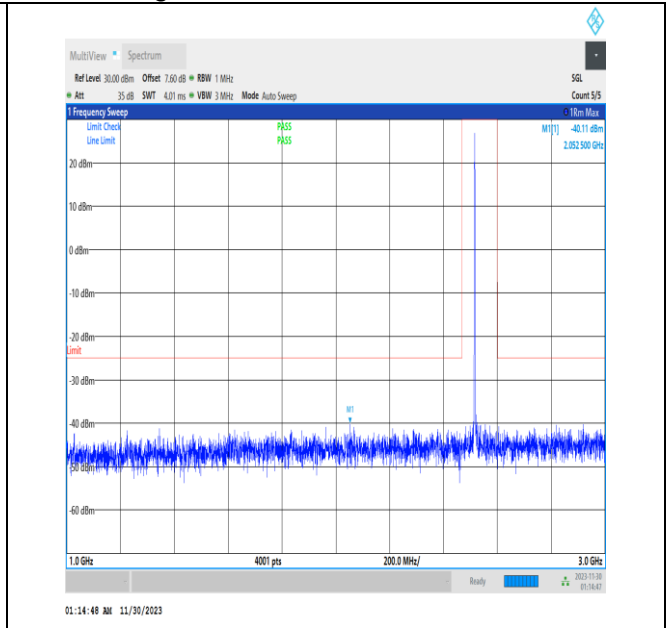
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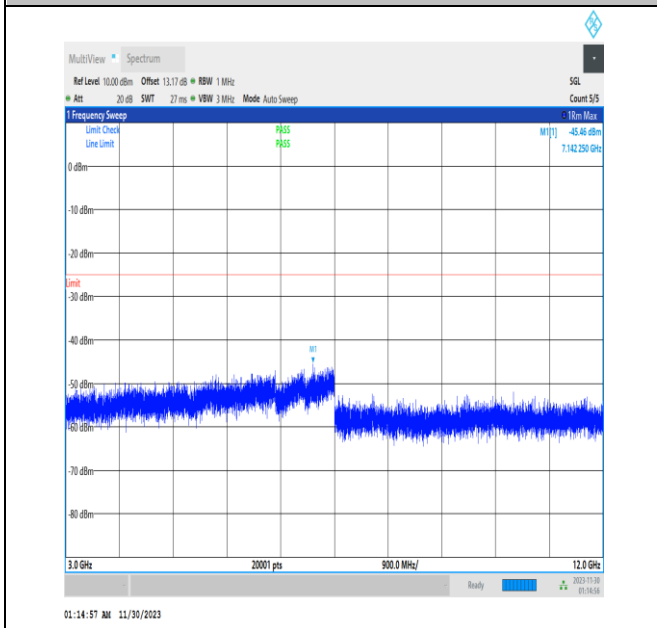
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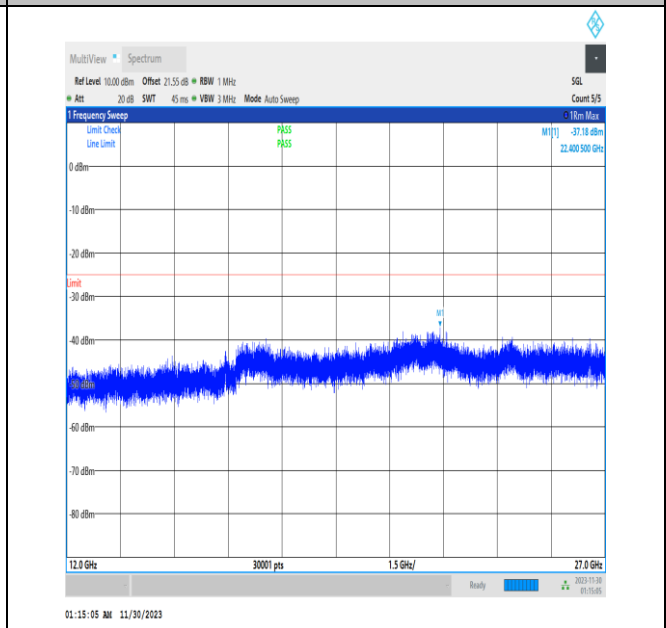
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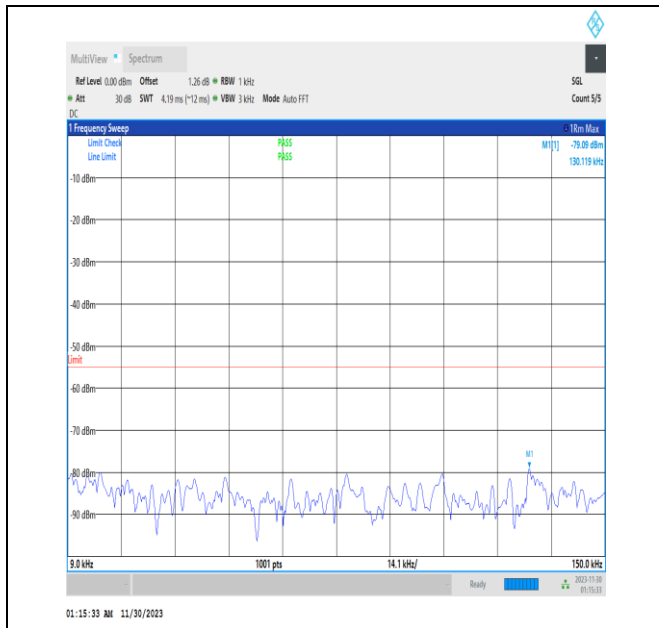


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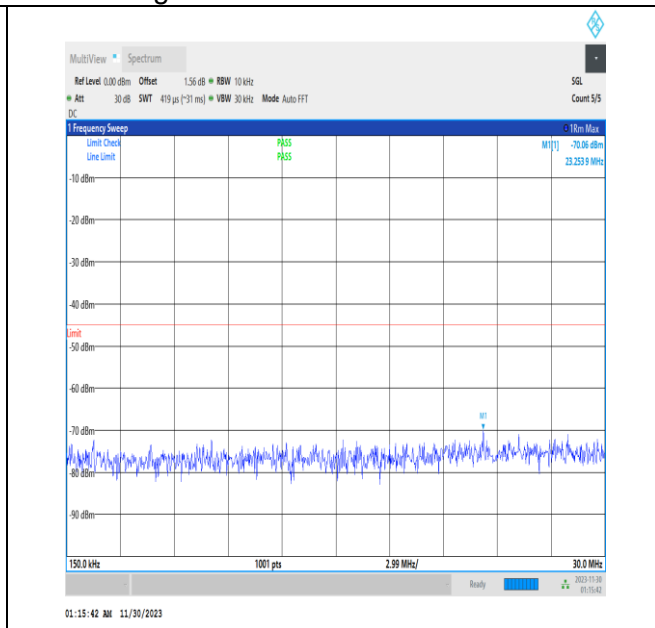
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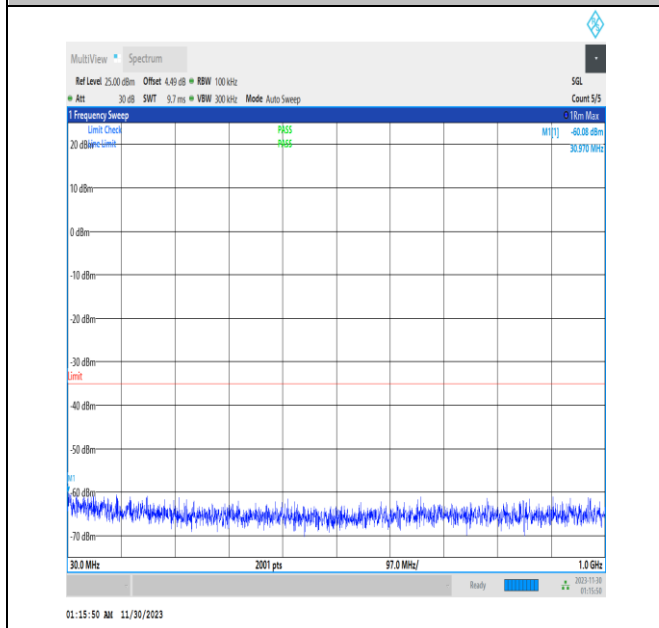




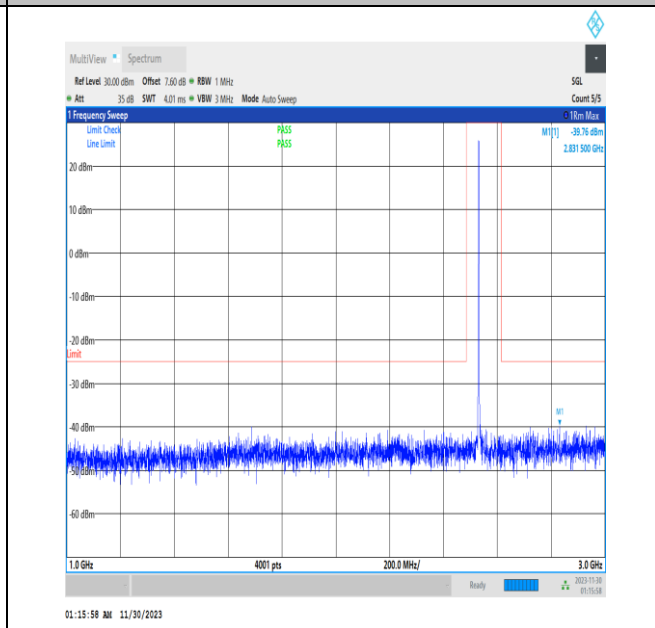
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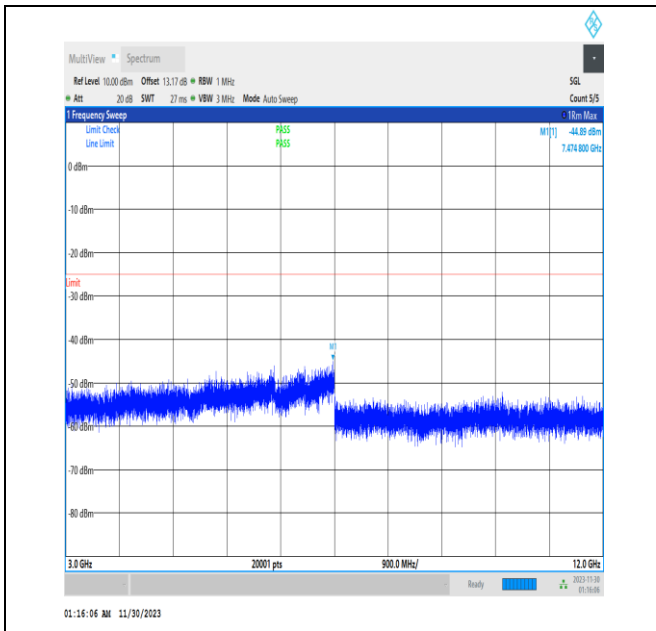


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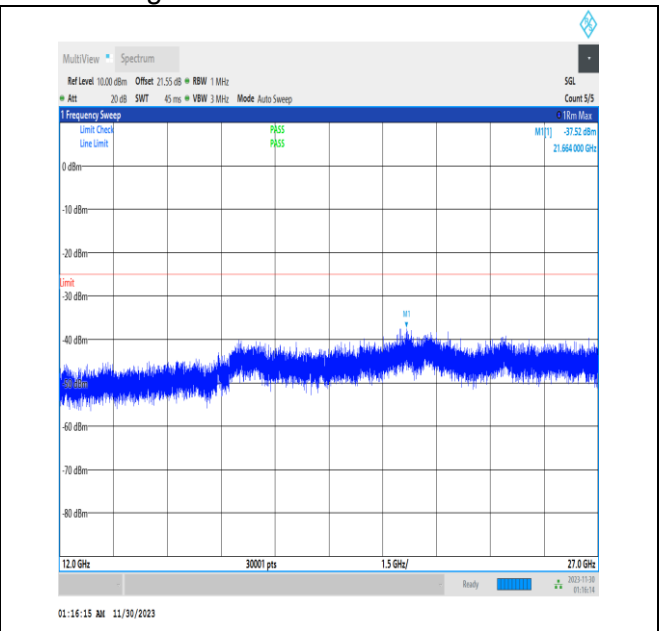


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NTNV\_N7\_PC3\_15\_40\_H\_TID1\_12000\_27000\_#1



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## Field Strength of Spurious Radiation

Test Band = SA Band7\_ TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5004.1800	39.95	-45.63	31.41	-69.53	-25.00	44.53	Horizontal
2	7506.2700	37.37	-43.13	36.60	-64.41	-25.00	39.41	Horizontal
3	10008.3600	31.09	-39.23	38.20	-65.20	-25.00	40.20	Horizontal
4	12510.4500	25.48	-37.02	38.95	-67.85	-25.00	42.85	Horizontal
5	15012.5400	22.97	-34.67	41.27	-65.69	-25.00	40.69	Horizontal
6	17514.6300	26.22	-34.82	44.62	-59.24	-25.00	34.24	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5004.1800	40.88	-45.63	31.41	-68.60	-25.00	43.60	Vertical
2	7506.2700	38.35	-43.13	36.60	-63.43	-25.00	38.43	Vertical
3	10008.3600	30.92	-39.23	38.20	-65.37	-25.00	40.37	Vertical
4	12510.4500	25.69	-37.02	38.95	-67.64	-25.00	42.64	Vertical
5	15012.5400	23.05	-34.67	41.27	-65.61	-25.00	40.61	Vertical
6	17514.6300	27.03	-34.82	44.62	-58.43	-25.00	33.43	Vertical



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Test Band = SA Band7\_ 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	5034.1800	40.16	-45.55	31.48	-69.16	-25.00	44.16	Horizontal
2	7551.2700	37.38	-43.03	36.62	-64.29	-25.00	39.29	Horizontal
3	10068.3600	31.08	-39.16	38.23	-65.10	-25.00	40.10	Horizontal
4	12585.4500	25.16	-37.52	38.98	-68.65	-25.00	43.65	Horizontal
5	15102.5400	24.05	-34.92	41.08	-65.05	-25.00	40.05	Horizontal
6	17619.6300	26.30	-33.39	45.09	-57.26	-25.00	32.26	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5034.1800	40.71	-45.55	31.48	-68.61	-25.00	43.61	Vertical
2	7551.2700	38.12	-43.03	36.62	-63.55	-25.00	38.55	Vertical
3	10068.3600	31.55	-39.16	38.23	-64.63	-25.00	39.63	Vertical
4	12585.4500	25.68	-37.52	38.98	-68.13	-25.00	43.13	Vertical
5	15102.5400	24.50	-34.92	41.08	-64.60	-25.00	39.60	Vertical
6	17619.6300	25.54	-33.39	45.09	-58.02	-25.00	33.02	Vertical



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Test Band = SA Band7\_ TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5064.1800	40.38	-45.47	31.55	-68.79	-25.00	43.79	Horizontal
2	7596.2700	37.40	-42.94	36.64	-64.16	-25.00	39.16	Horizontal
3	10128.3600	30.70	-39.23	38.26	-65.52	-25.00	40.52	Horizontal
4	12660.4500	26.27	-37.05	39.00	-67.04	-25.00	42.04	Horizontal
5	15192.5400	23.57	-33.99	40.89	-64.79	-25.00	39.79	Horizontal
6	17724.6300	27.12	-34.18	45.56	-56.76	-25.00	31.76	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5064.1800	41.40	-45.47	31.55	-67.77	-25.00	42.77	Vertical
2	7596.2700	37.57	-42.94	36.64	-63.99	-25.00	38.99	Vertical
3	10128.3600	30.67	-39.23	38.26	-65.55	-25.00	40.55	Vertical
4	12660.4500	26.39	-37.05	39.00	-66.92	-25.00	41.92	Vertical
5	15192.5400	24.01	-33.99	40.89	-64.35	-25.00	39.35	Vertical
6	17724.6300	26.87	-34.18	45.56	-57.01	-25.00	32.01	Vertical



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Test Band = NSA 4A\_N7A\_TM1

Test Channel = Low

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4137	42.51	-45.76	29.43	-69.08	-25.00	44.08	Horizontal
2	6351	40.79	-44.47	33.82	-65.12	-25.00	40.12	Horizontal
3	8340	38.73	-41.79	36.63	-61.69	-25.00	36.69	Horizontal
4	10103.5	32.87	-39.13	38.25	-63.27	-25.00	38.27	Horizontal
5	13366	28.18	-36.50	39.76	-63.83	-25.00	38.83	Horizontal
6	16488.5	28.83	-33.91	40.71	-59.63	-25.00	34.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4564	42.89	-45.68	30.44	-67.61	-25.00	42.61	Vertical
2	6500.5	41.41	-44.61	34.30	-64.16	-25.00	39.16	Vertical
3	7550	39.70	-43.04	36.62	-61.98	-25.00	36.98	Vertical
4	9574	35.56	-39.82	37.39	-62.13	-25.00	37.13	Vertical
5	11251.5	31.21	-37.41	38.73	-62.73	-25.00	37.73	Vertical
6	13752.5	28.91	-36.29	40.45	-62.18	-25.00	37.18	Vertical



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Test Band = NSA 4A\_N7A\_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	3633	42.68	-45.92	28.73	-69.77	-25.00	44.77	Horizontal
2	4909.5	42.80	-45.54	31.20	-66.80	-25.00	41.80	Horizontal
3	6678.5	40.95	-43.93	34.62	-63.61	-25.00	38.61	Horizontal
4	8943	37.39	-41.14	36.33	-62.68	-25.00	37.68	Horizontal
5	12310	29.12	-37.43	38.89	-64.67	-25.00	39.67	Horizontal
6	15154	27.40	-34.39	40.98	-61.28	-25.00	36.28	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3810.5	43.14	-45.96	28.91	-69.17	-25.00	44.17	Vertical
2	5927	41.95	-44.93	32.69	-65.56	-25.00	40.56	Vertical
3	7785	40.00	-42.43	36.71	-60.98	-25.00	35.98	Vertical
4	10101	33.69	-39.12	38.25	-62.44	-25.00	37.44	Vertical
5	12651.5	29.72	-37.14	39.00	-63.68	-25.00	38.68	Vertical
6	15154.5	27.10	-34.39	40.98	-61.57	-25.00	36.57	Vertical



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Test Band = NSA 4A\_N7A\_TM1

Test Channel = High

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4454	42.54	-45.76	30.19	-68.29	-25.00	43.29	Horizontal
2	5849	41.95	-44.86	32.67	-65.50	-25.00	40.50	Horizontal
3	7750.5	39.19	-42.71	36.70	-62.08	-25.00	37.08	Horizontal
4	9605.5	34.64	-39.66	37.45	-62.83	-25.00	37.83	Horizontal
5	11334	30.62	-37.40	38.73	-63.31	-25.00	38.31	Horizontal
6	13847	28.62	-35.95	40.62	-61.97	-25.00	36.97	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4306.5	42.61	-45.56	29.84	-68.37	-25.00	43.37	Vertical
2	6691	41.18	-43.86	34.64	-63.29	-25.00	38.29	Vertical
3	7652.5	39.92	-43.03	36.66	-61.71	-25.00	36.71	Vertical
4	8850.5	36.97	-41.24	36.37	-63.16	-25.00	38.16	Vertical
5	12106.5	28.79	-37.35	38.83	-64.99	-25.00	39.99	Vertical
6	15154.5	27.69	-34.39	40.98	-60.98	-25.00	35.98	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

2) All antennas of RSE are tested, and only the worst data is presented.



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## Frequency Stability for SA

### Test Result

### Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	2.400000	0.000947	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-3.500000	-0.001381	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	0.300000	0.000118	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VH	NT	-4.500000	-0.001775	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VN	NT	-3.800000	-0.001499	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VL	NT	-1.100000	-0.000434	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	0.300000	0.000118	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	-5.400000	-0.002130	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-1.900000	-0.000750	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-1.500000	-0.000592	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	10	-2.100000	-0.000828	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	20	-5.600000	-0.002209	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	30	2.700000	0.001065	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-3.000000	-0.001183	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	50	3.800000	0.001499	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-30	2.300000	0.000907	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-20	-2.400000	-0.000947	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-10	-0.200000	-0.000079	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	0	0.600000	0.000237	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	10	3.000000	0.001183	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	20	-2.700000	-0.001065	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	30	-5.600000	-0.002209	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	40	-4.800000	-0.001893	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	50	0.900000	0.000355	PASS

---End of Attachment---



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