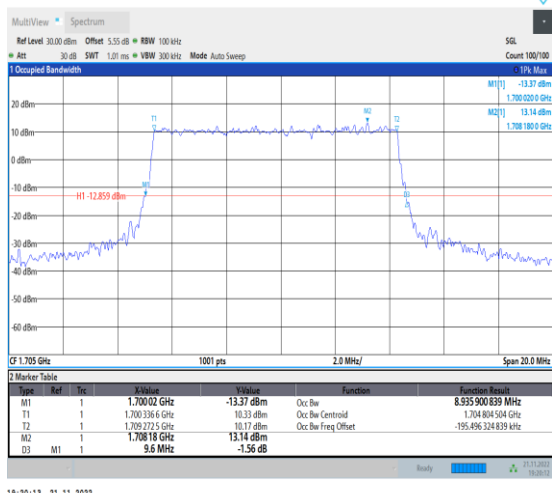


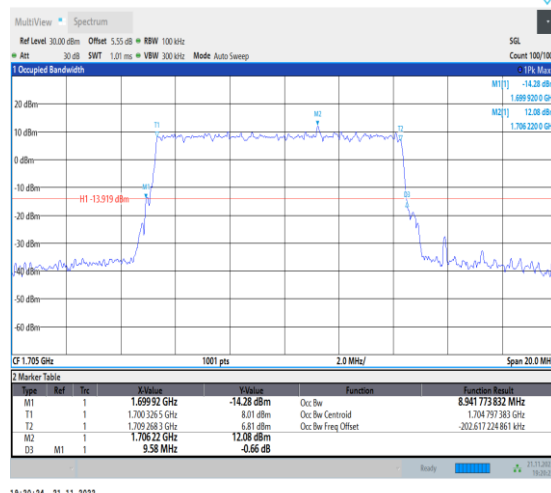
Report No.: SEWM2210000221RG02

Rev.: 01

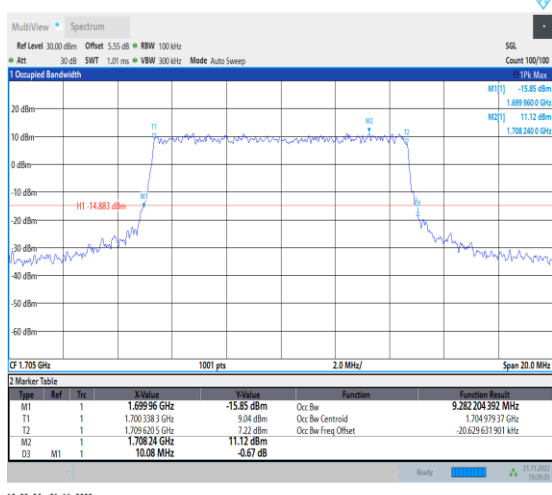
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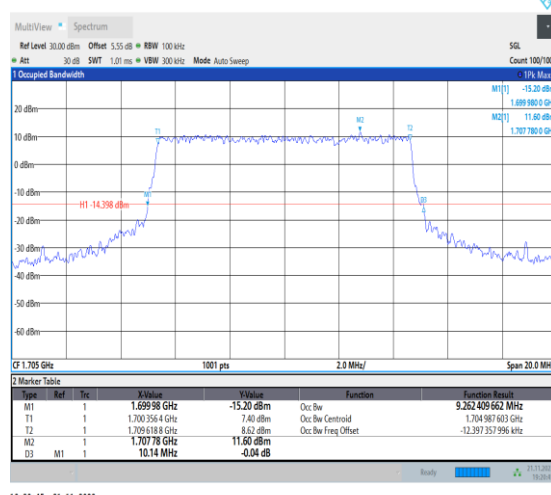
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@0-Ant1-8.942-9.580-≤10-PASS



1-N70-PC3-15-10-H-6-CP-QPSK-Outer_Full-52@0-
Ant1-9.282-10.080-≤10-PASS



1-N70-PC3-15-10-H-7-CP-16QAM-Outer_Full-52@0
-Ant1-9.262-10.140-≤10-PASS



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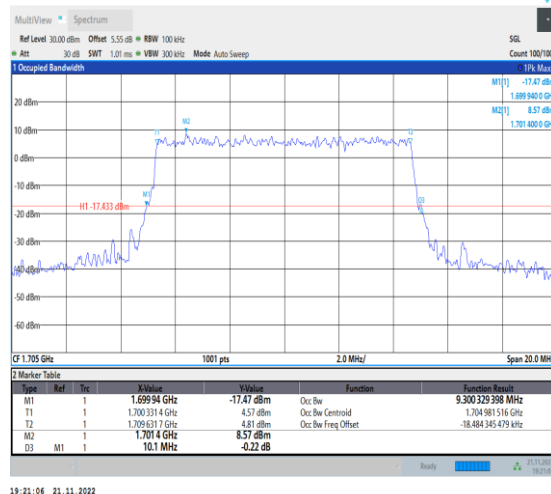
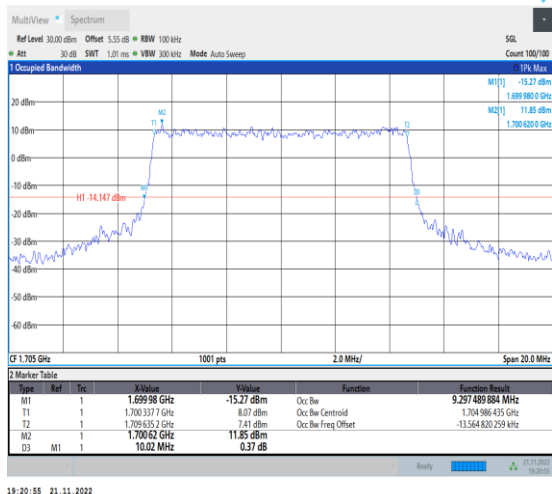
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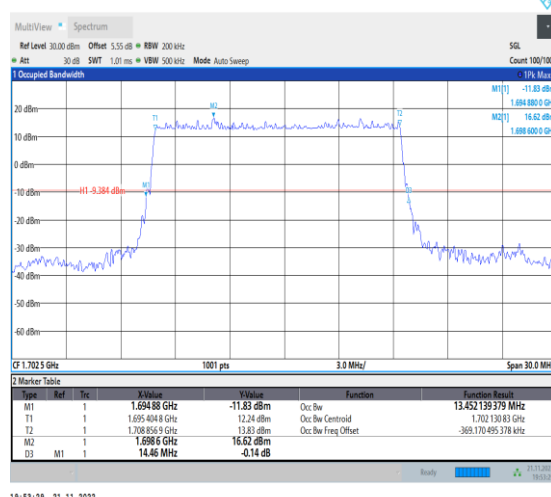
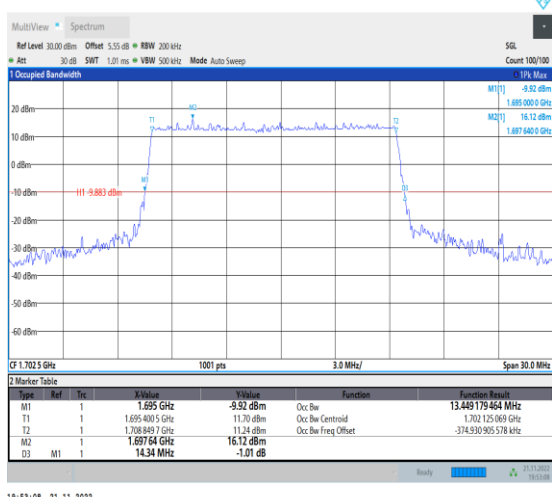
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1-N70-PC3-15-10-H-8-CP-64QAM-Outer_Full-52@0
-Ant1-9.297-10.020-≤10-PASS

1-N70-PC3-15-10-H-9-CP-256QAM-Outer_Full-52@
0-Ant1-9.3-10.100-≤10-PASS



1-N70-PC3-15-15-L-1-DFT-QPSK-Outer_Full-75@0-
Ant1-13.449-14.340-≤15-PASS

1-N70-PC3-15-15-L-2-DFT-PI2BPSK-Outer_Full-75
@0-Ant1-13.452-14.460-≤15-PASS



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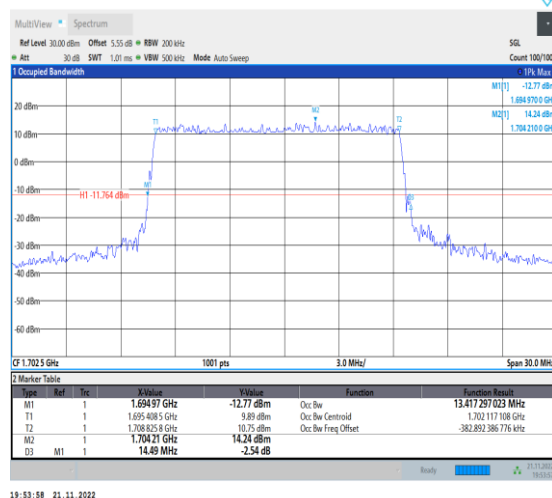
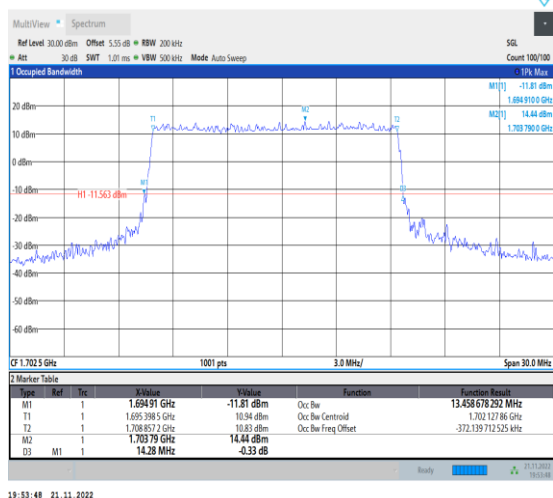
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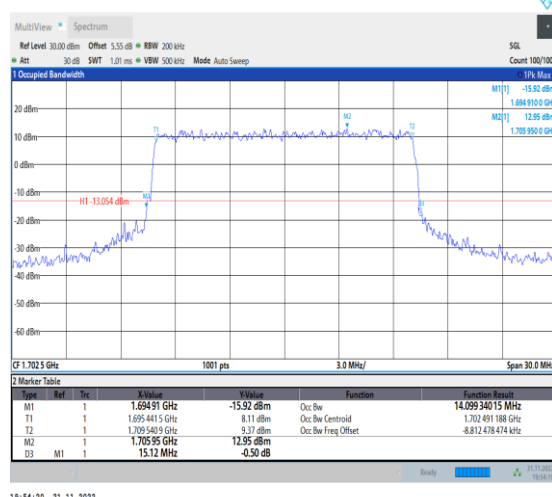
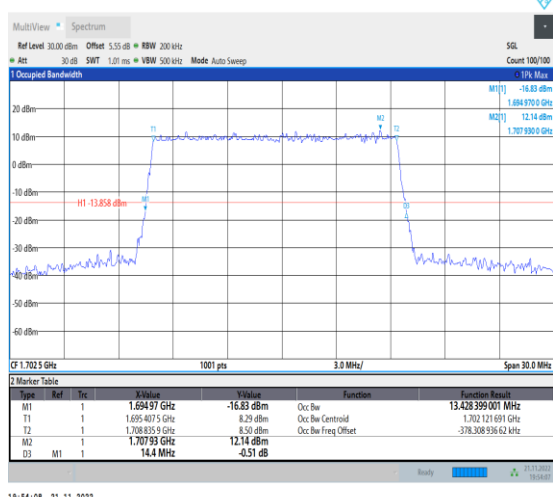
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0-Ant1-13.459-14.280-≤15-PASS

1-N70-PC3-15-15-L-4-DFT-64QAM-Outer_Full-75@
0-Ant1-13.417-14.490-≤15-PASS



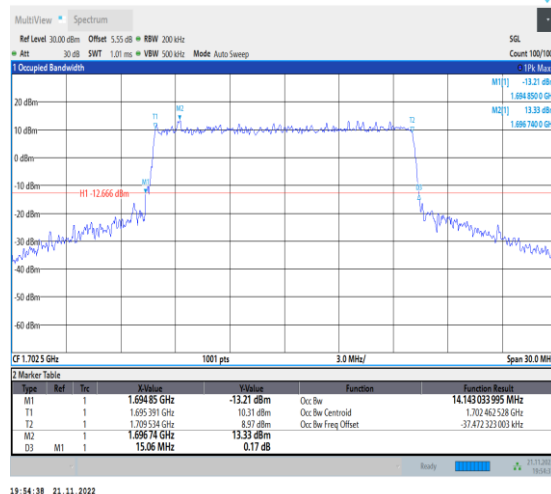
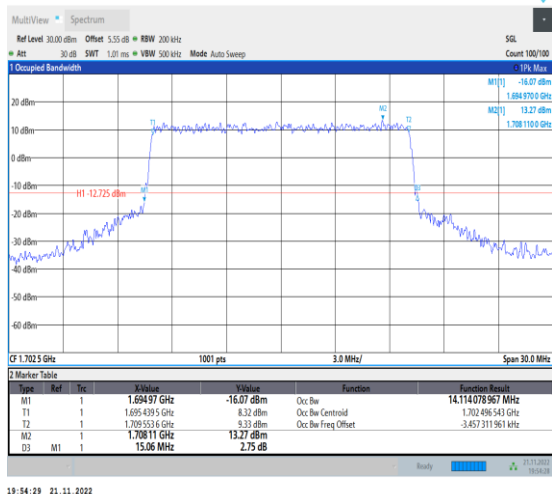
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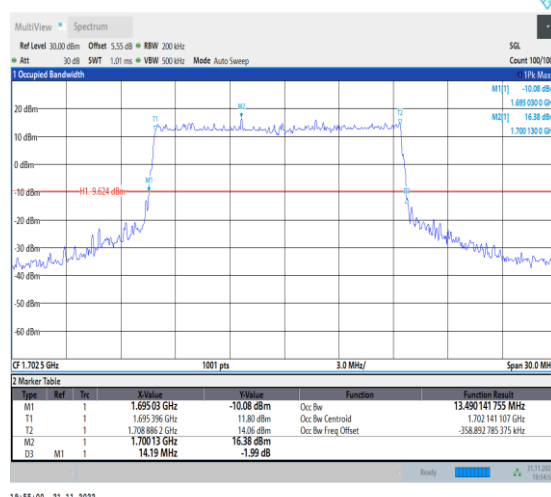
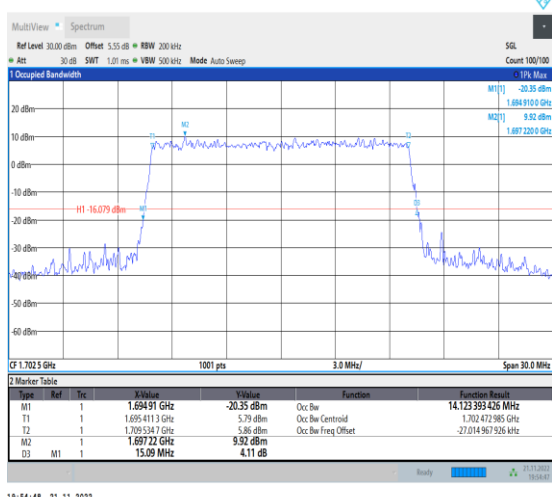
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1-N70-PC3-15-15-L-7-CP-16QAM-Outer_Full-79@0-Ant1-14.114-15.060-≤15-PASS

1-N70-PC3-15-15-L-8-CP-64QAM-Outer_Full-79@0-Ant1-14.143-15.060-≤15-PASS



1-N70-PC3-15-15-L-9-CP-256QAM-Outer_Full-79@0-Ant1-14.123-15.090-≤15-PASS

1-N70-PC3-15-15-M-1-DFT-QPSK-Outer_Full-75@0-Ant1-13.49-14.190-≤15-PASS



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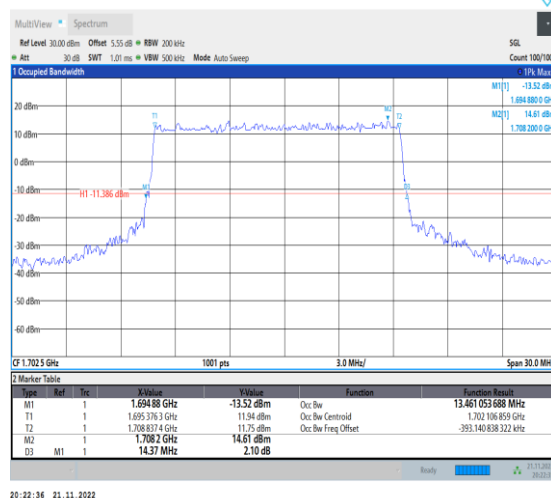
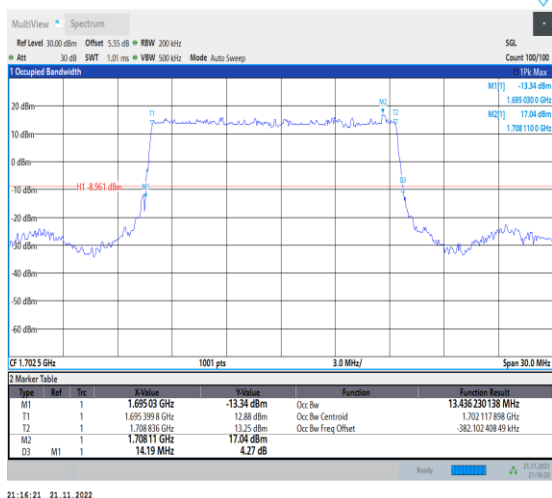
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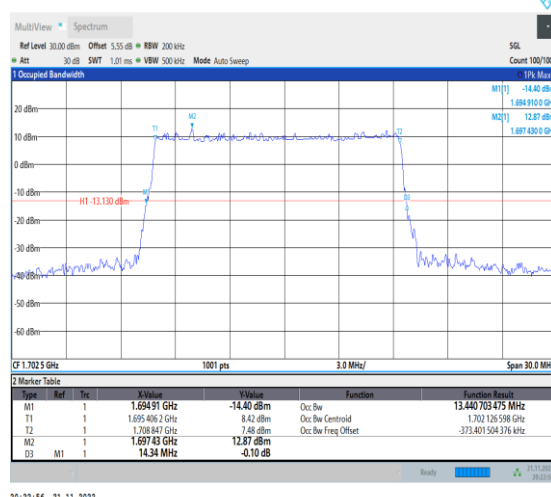
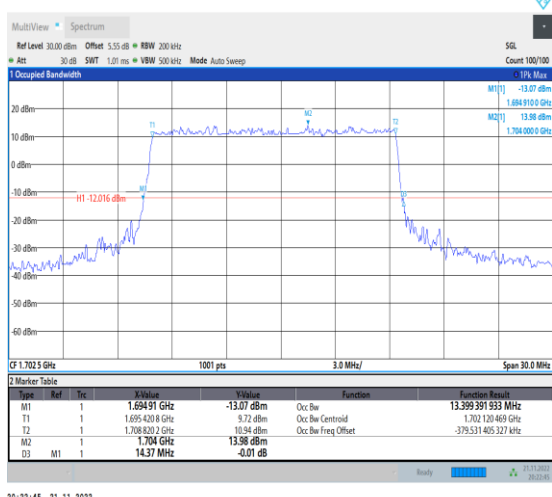
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1-N70-PC3-15-15-M-2-DFT-PI2BPSK-Outer_Full-75
@0-Ant1-13.436-14.190-≤15-PASS

1-N70-PC3-15-15-M-3-DFT-16QAM-Outer_Full-75@
0-Ant1-13.461-14.370-≤15-PASS



1-N70-PC3-15-15-M-4-DFT-64QAM-Outer_Full-75@
0-Ant1-13.399-14.370-≤15-PASS

1-N70-PC3-15-15-M-5-DFT-256QAM-Outer_Full-75
@0-Ant1-13.441-14.340-≤15-PASS



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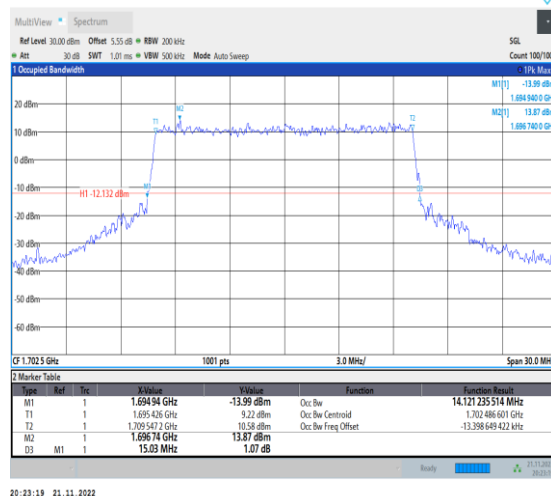
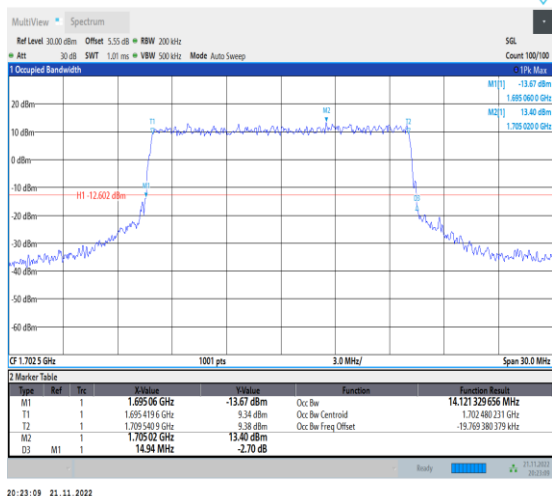
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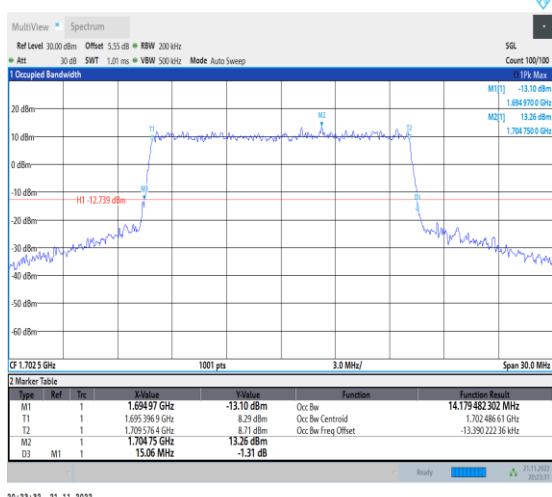
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1-N70-PC3-15-15-M-7-CP-16QAM-Outter_Full-79@0-Ant1-14.121-15.030-≤15-PASS



1-N70-PC3-15-15-M-8-CP-64QAM-Outter_Full-79@0-Ant1-14.179-15.060-≤15-PASS

1-N70-PC3-15-15-M-9-CP-256QAM-Outter_Full-79@0-Ant1-14.127-15.030-≤15-PASS



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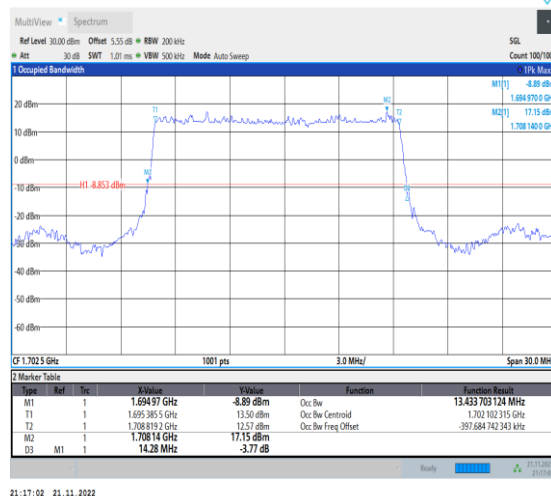
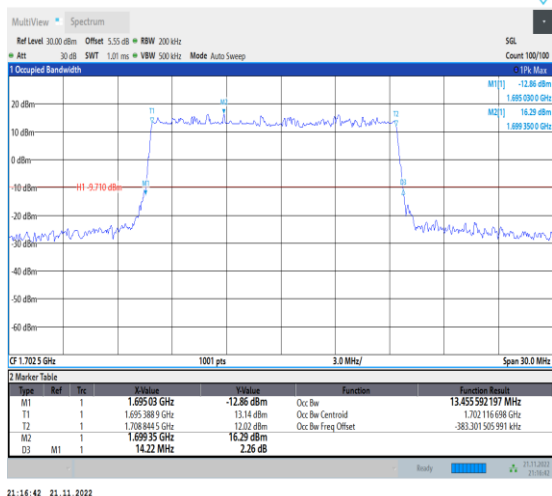
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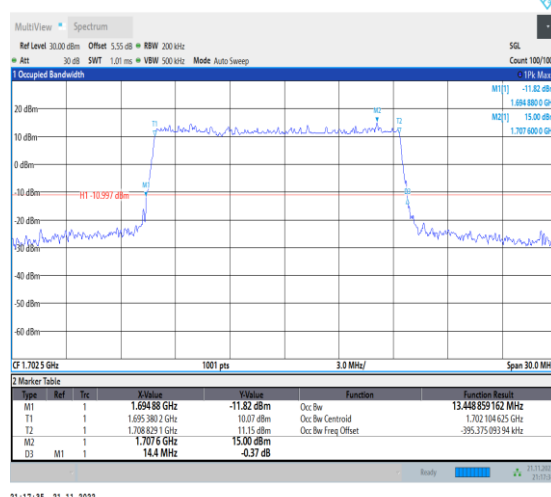
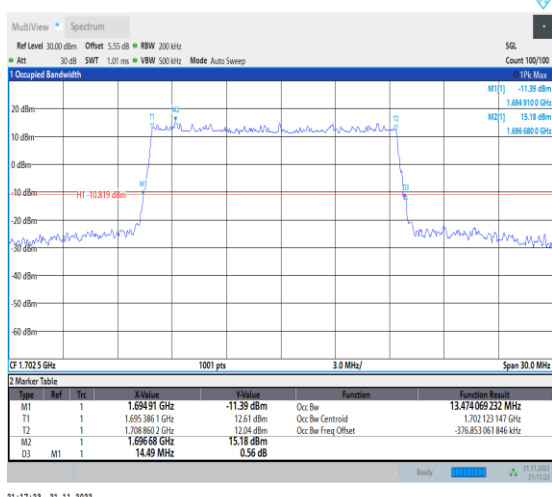
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1-N70-PC3-15-15-H-1-DFT-QPSK-Outer_Full-75@0-Ant1-13.456-14.220-≤15-PASS

1-N70-PC3-15-15-H-2-DFT-PI2BPSK-Outer_Full-75@0-Ant1-13.434-14.280-≤15-PASS



1-N70-PC3-15-15-H-3-DFT-16QAM-Outer_Full-75@0-Ant1-13.474-14.490-≤15-PASS

1-N70-PC3-15-15-H-4-DFT-64QAM-Outer_Full-75@0-Ant1-13.449-14.400-≤15-PASS



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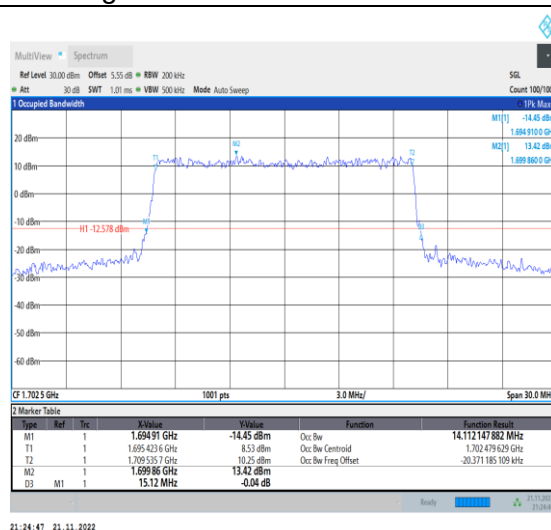
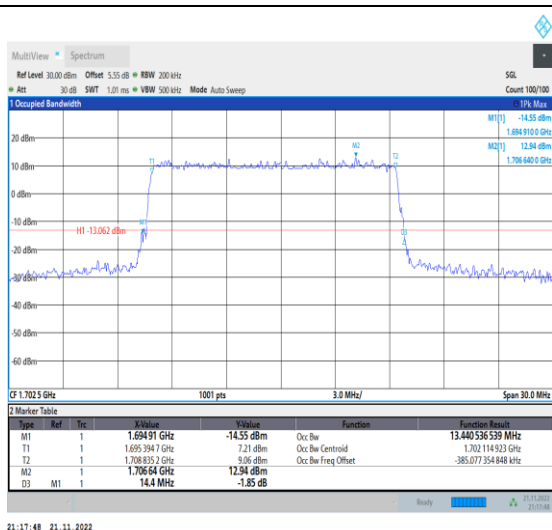
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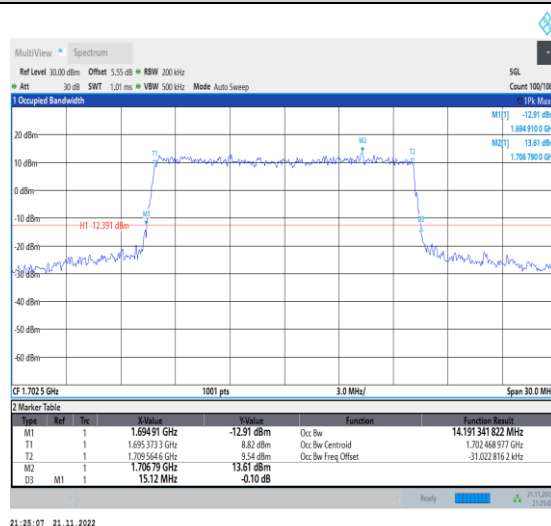
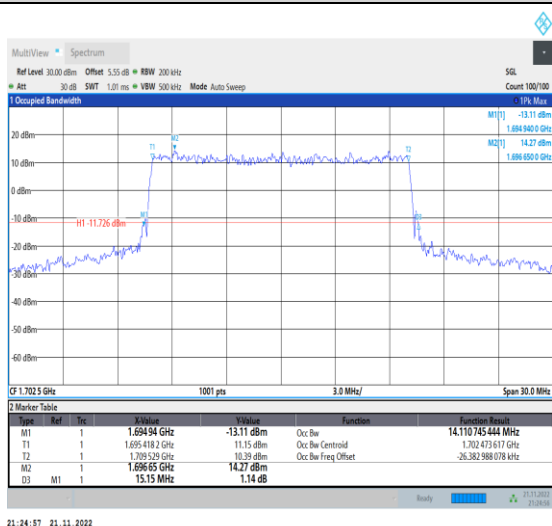
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1-N70-PC3-15-15-H-6-CP-QPSK-Outer_Full-79@0-
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1-N70-PC3-15-15-H-7-CP-16QAM-Outer_Full-79@0
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1-N70-PC3-15-15-H-8-CP-64QAM-Outer_Full-79@0
-Ant1-14.191-15.120≤15-PASS



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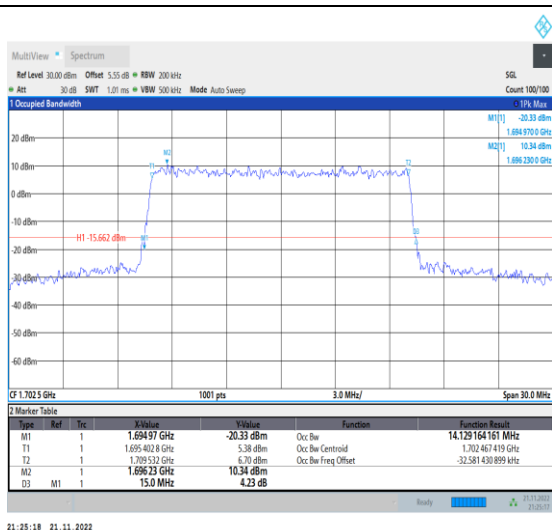
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0-Ant1-14.129-15.000≤15-PASS



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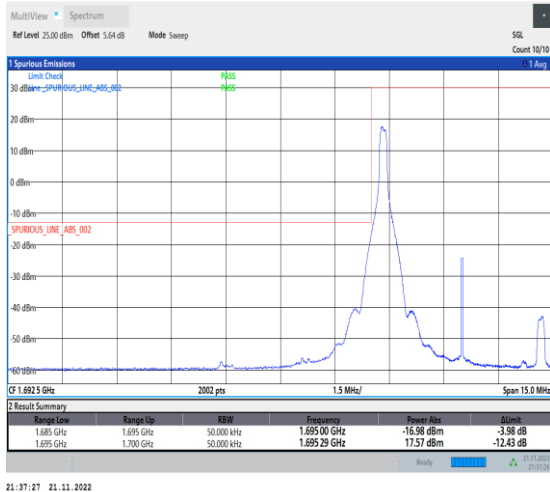
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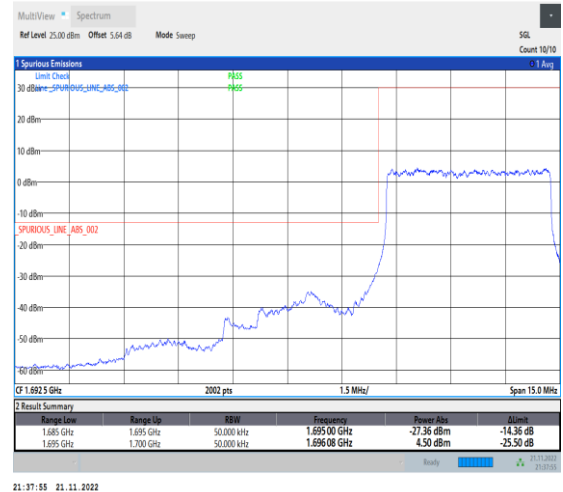
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Band Edge for SA

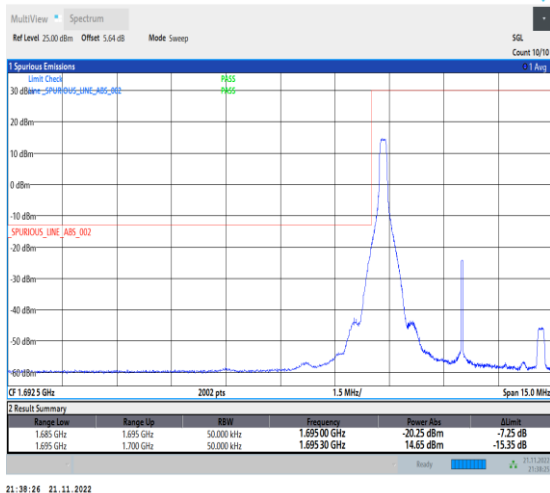
Test Graphs



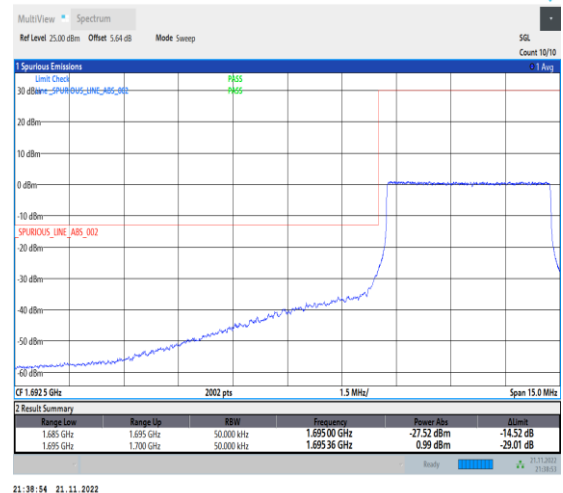
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@0-Ant1-1-seegraph-PASS-see graph



1-N70-PC3-15-5-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1-seegraph-PASS-see graph



1-N70-PC3-15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-1-seegraph-PASS-see graph



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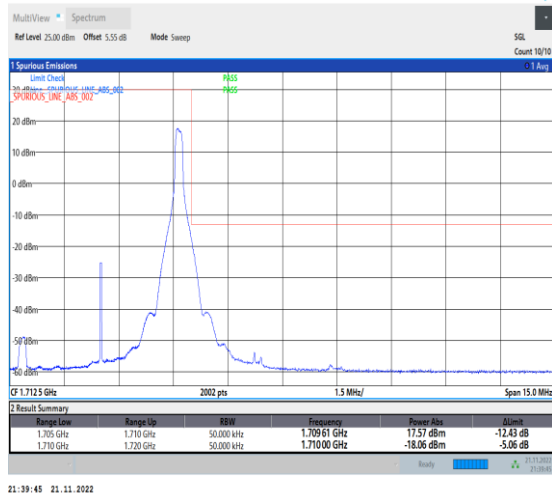
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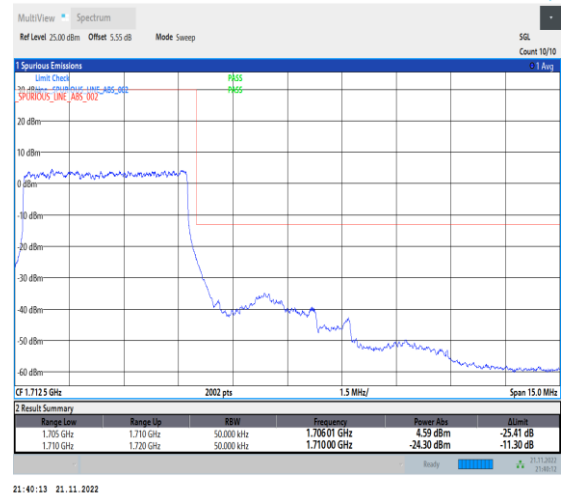
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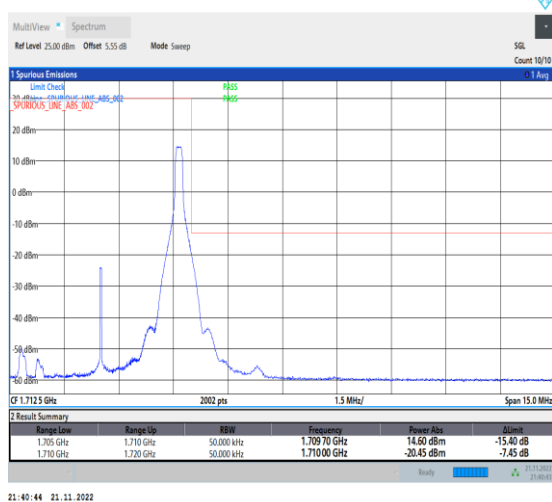
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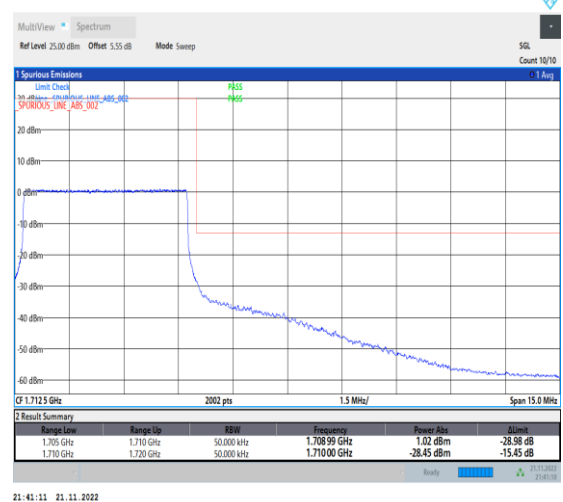
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1-N70-PC3-15-5-H-5-CP-QPSK-Edge_1RB_Right-1@24-Ant1-1-seegraph-PASS-see graph



1-N70-PC3-15-5-H-6-CP-QPSK-Outer_Full-25@0-Ant1-1-seegraph-PASS-see graph



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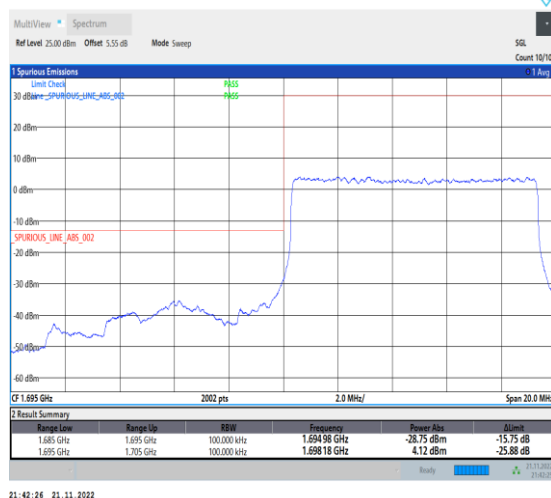
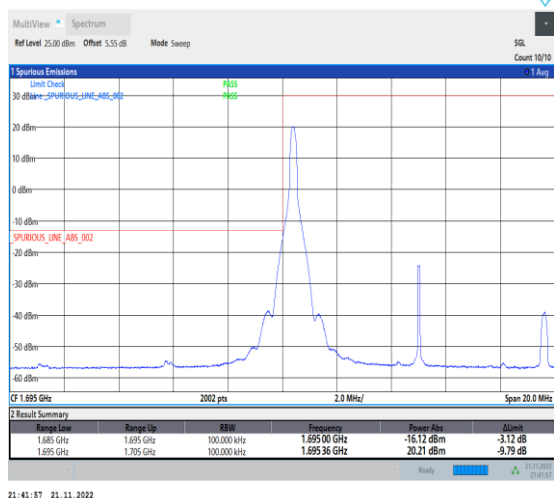
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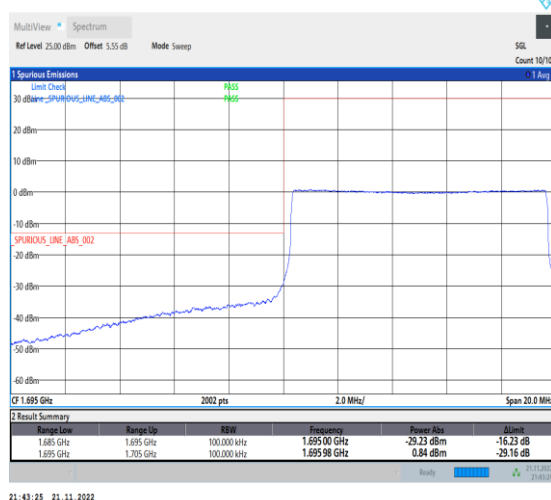
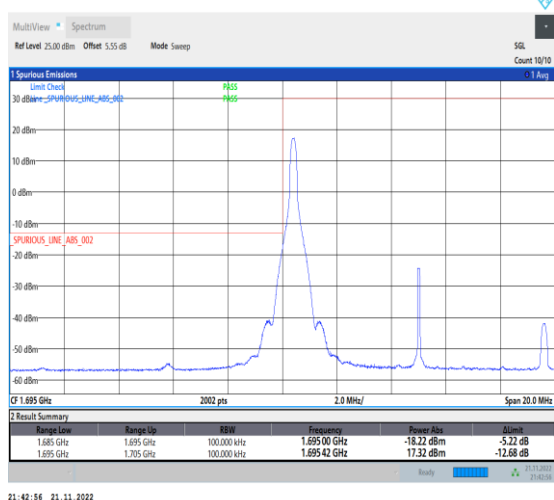
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1-N70-PC3-15-10-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-1-seegraph-PASS-see graph

1-N70-PC3-15-10-L-3-DFT-PI2BPSK-Outer_Full-50@0-Ant1-1-seegraph-PASS-see graph



1-N70-PC3-15-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1-seegraph-PASS-see graph

1-N70-PC3-15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-1-seegraph-PASS-see graph



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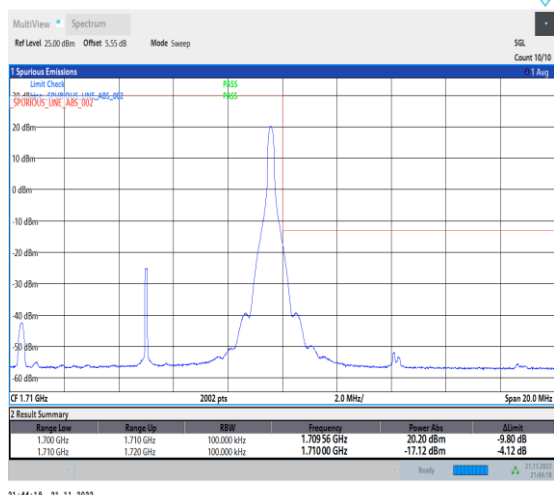
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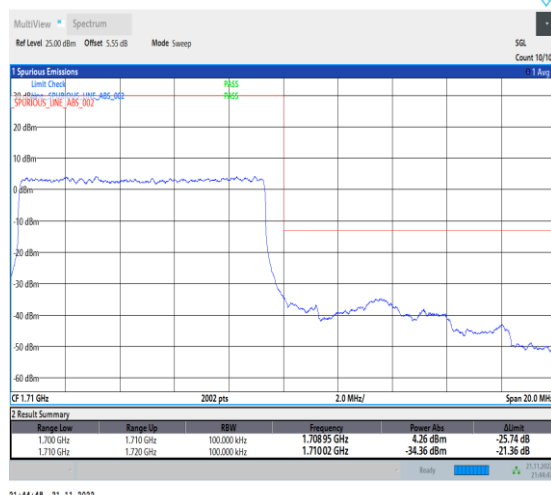
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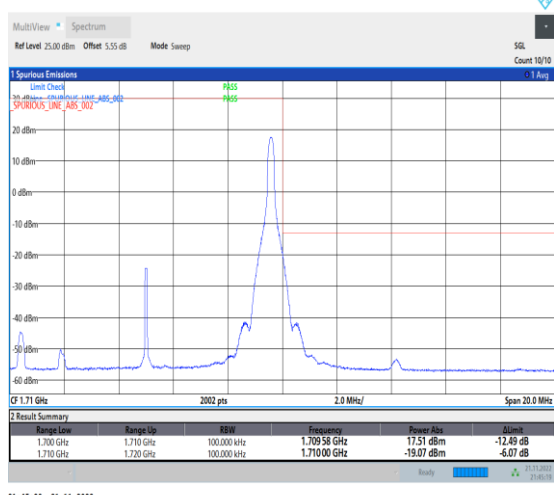
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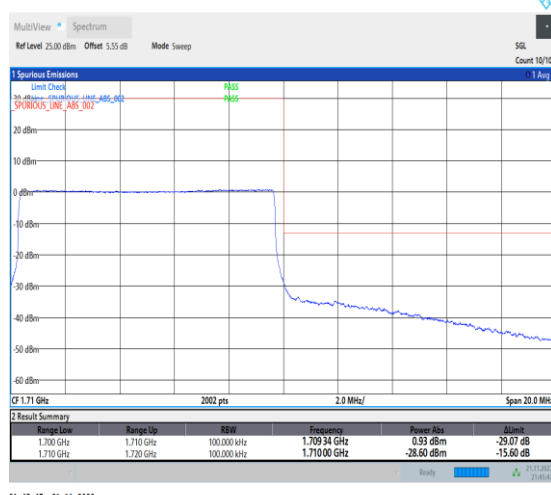
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21:45:47 21.11.2022

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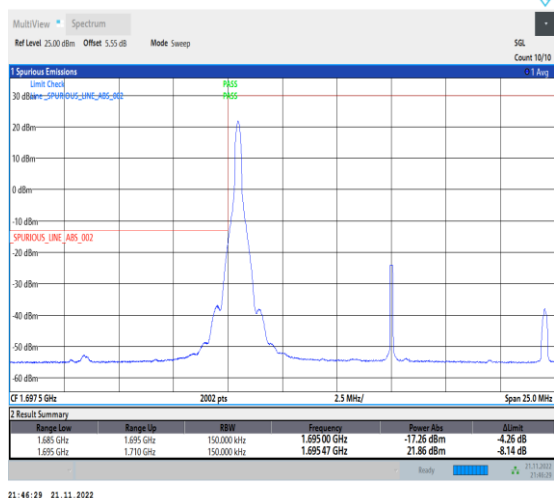
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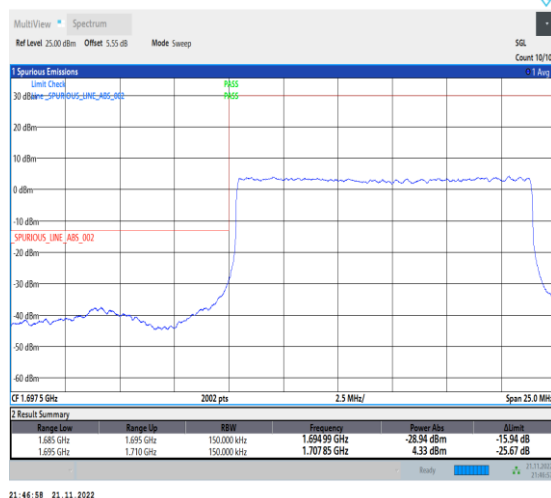
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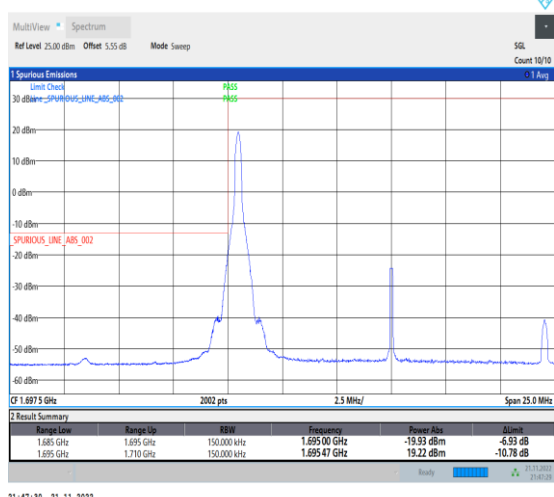
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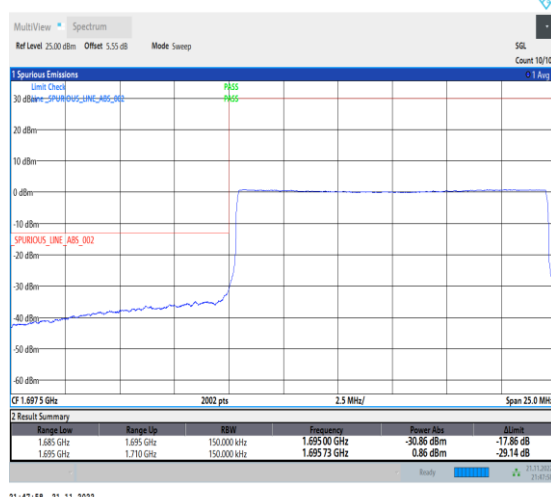
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1-N70-PC3-15-15-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-1-seegraph-PASS-see graph



1-N70-PC3-15-15-L-6-CP-QPSK-Outer_Full-79@0-Ant1-1-seegraph-PASS-see graph



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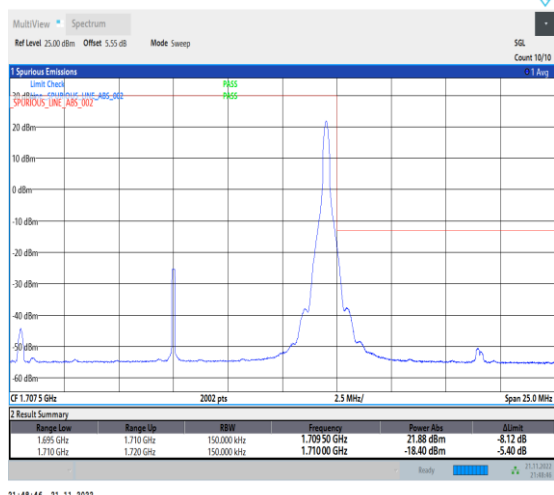
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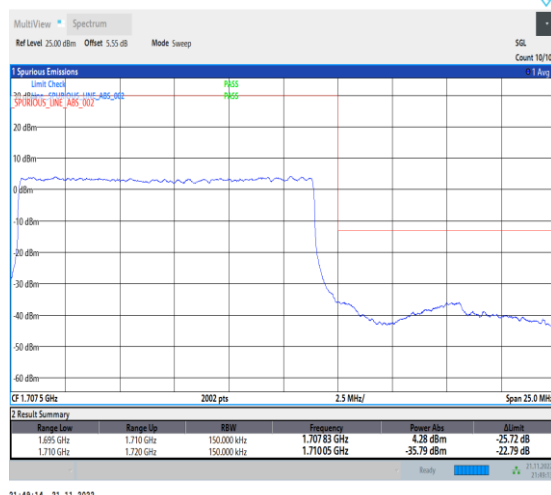
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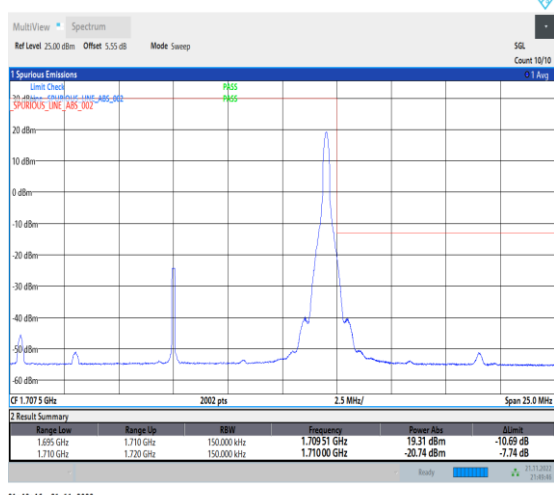
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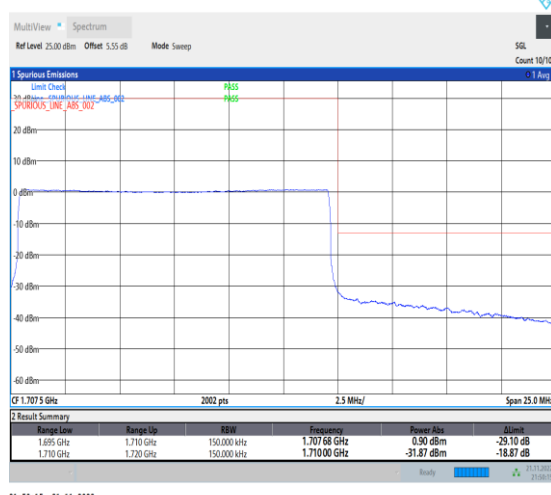
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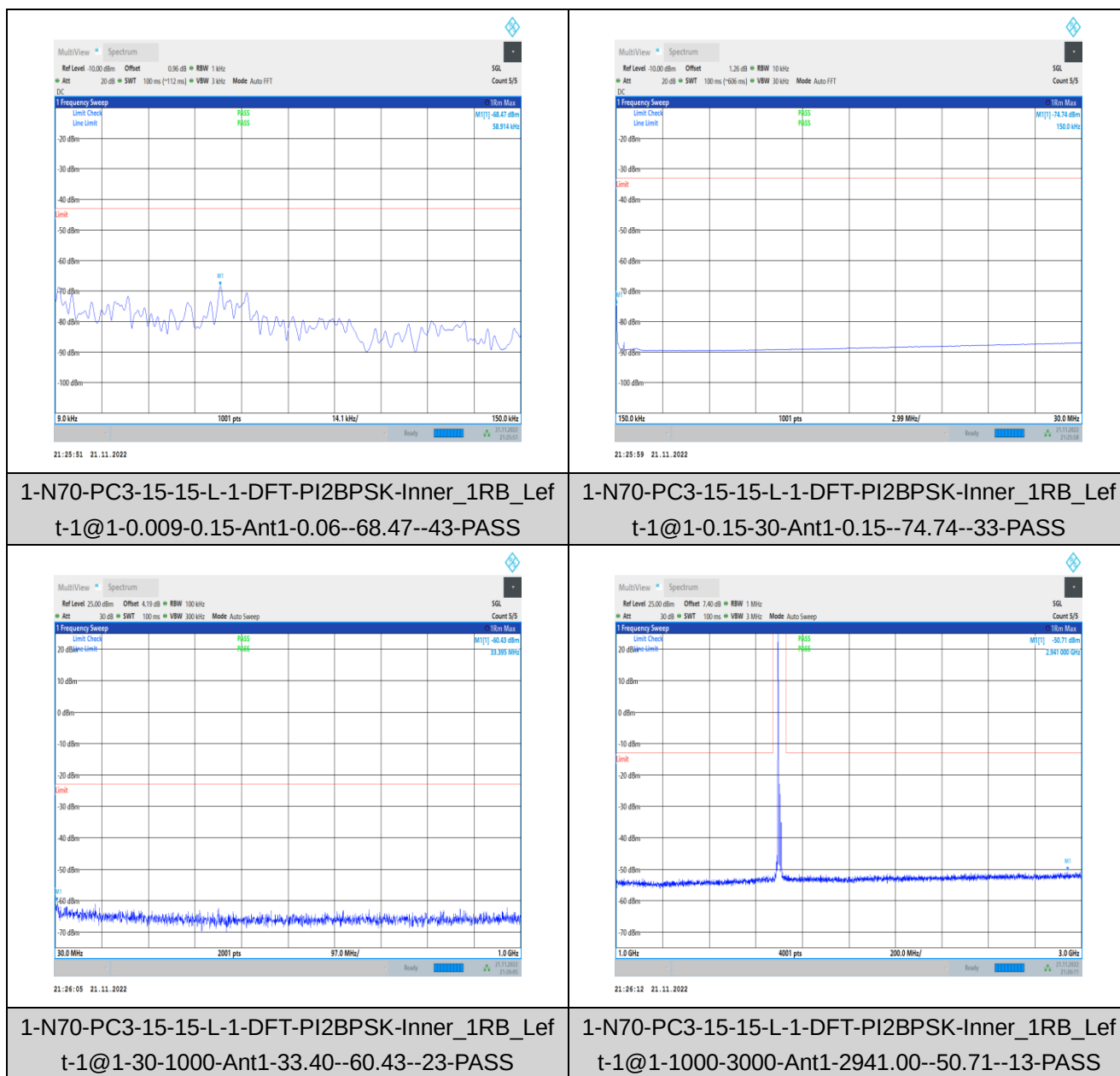
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Conducted Spurious Emission for SA

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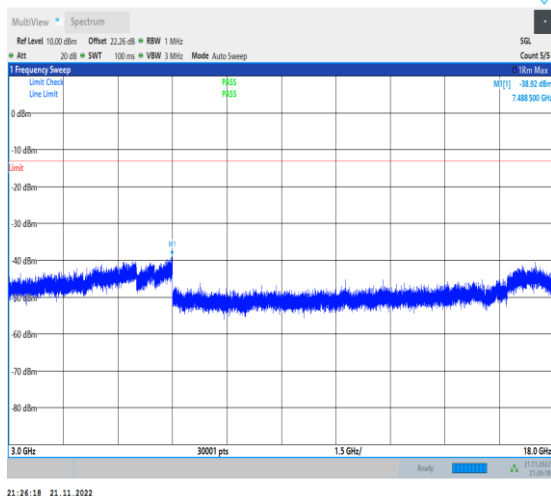
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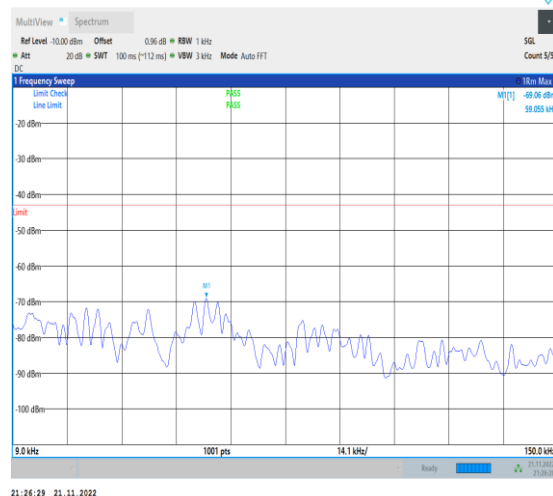
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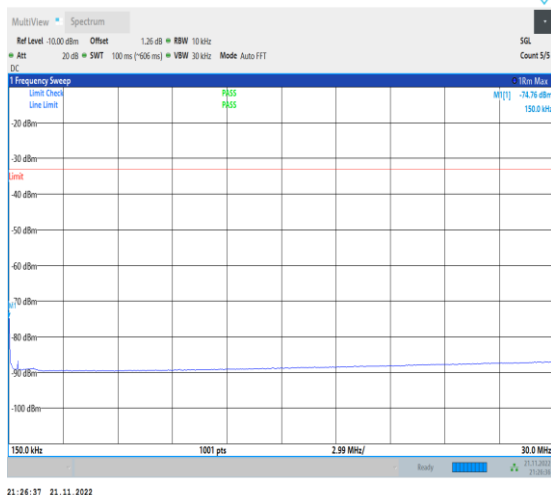
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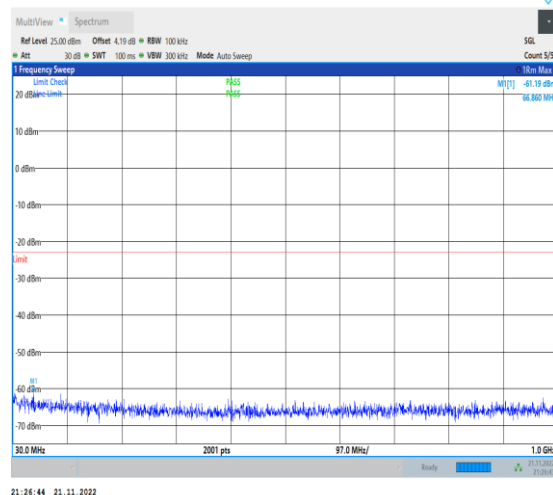
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1-N70-PC3-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Le
ft-1@1-30-1000-Ant1-66.86--61.19--23-PASS



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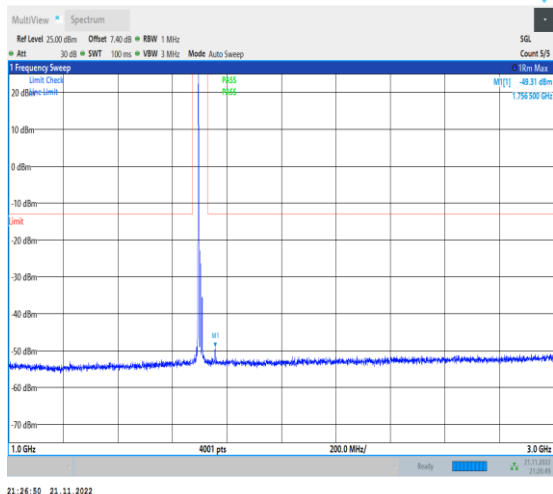
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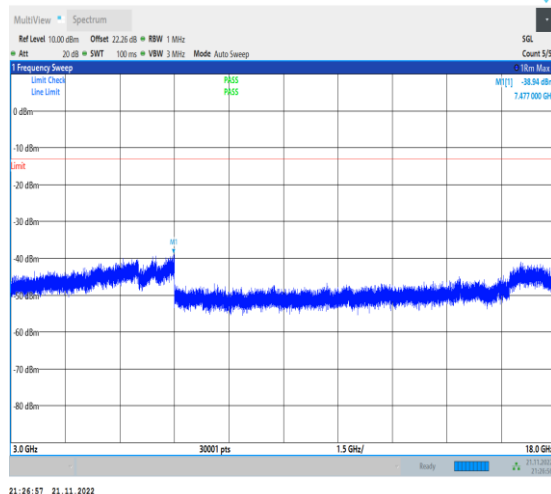
Report No.: SEWM2210000221RG02

Rev.: 01

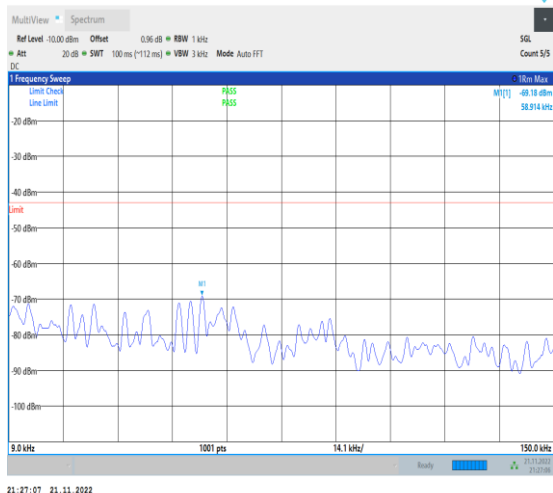
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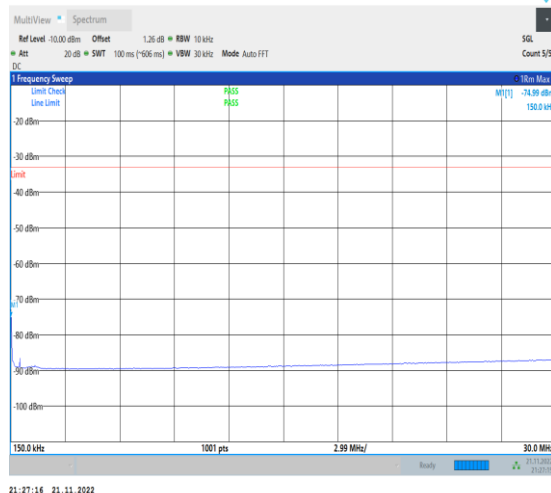
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ft-1@1-1000-3000-Ant1-1756.50--49.31--13-PASS



1-N70-PC3-15-15-M-1-DFT-PI2BPSK-Inner_1RB_Le
ft-1@1-3000-18000-Ant1-7477.00--38.94--13-PASS



1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Le
ft-1@1-0.009-0.15-Ant1-0.06--69.18--43-PASS



1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Le
ft-1@1-0.15-30-Ant1-0.15--74.99--33-PASS



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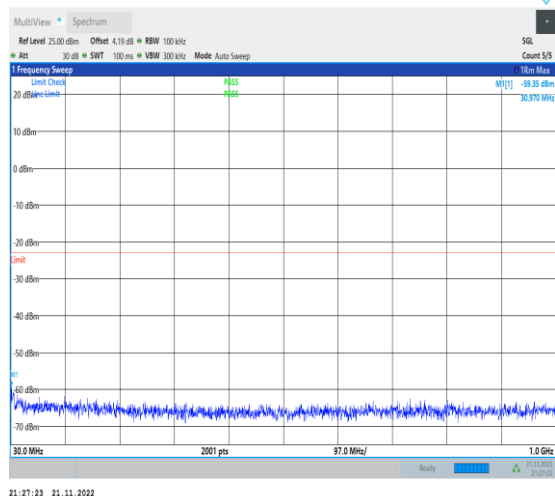
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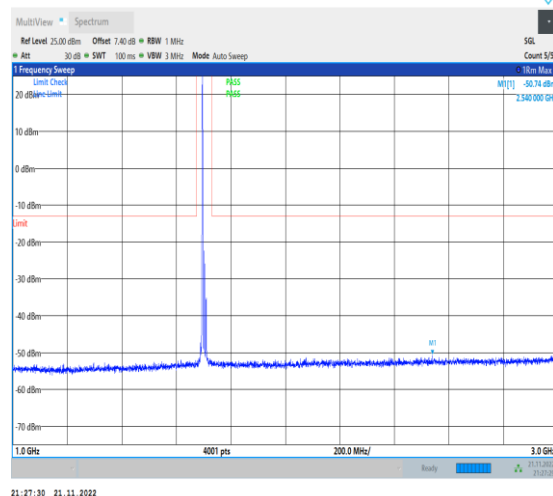
Report No.: SEWM2210000221RG02

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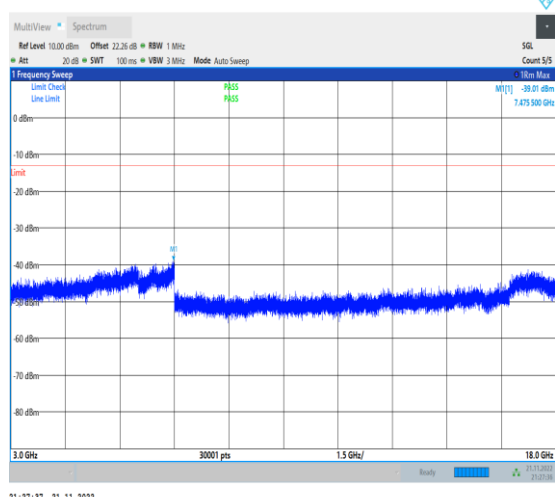
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1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Le
ft-1@1-30-1000-Ant1-30.97--59.35--23-PASS



1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Le
ft-1@1-1000-3000-Ant1-2540.00--50.74--13-PASS



1-N70-PC3-15-15-H-1-DFT-PI2BPSK-Inner_1RB_Le
ft-1@1-3000-18000-Ant1-7475.50--39.01--13-PASS



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Field Strength of Spurious Radiation

Test Band = 5G NR SA n70_10M_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3391.6800	42.38	-46.29	29.44	-69.73	-13.00	56.73	201	2	Horizontal
2	5087.5200	40.25	-45.40	32.93	-67.48	-13.00	54.48	230	183	Horizontal
3	6783.3600	40.17	-44.11	35.81	-63.39	-13.00	50.39	123	316	Horizontal
4	8479.2000	38.85	-41.59	37.50	-60.50	-13.00	47.50	236	0	Horizontal
5	10175.0400	32.42	-39.41	38.77	-63.48	-13.00	50.48	258	347	Horizontal
6	11870.8800	32.56	-37.05	38.83	-60.93	-13.00	47.93	190	105	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3390.75	46.73	-46.30	29.44	-65.39	-13.00	52.39	215	135	Vertical
2	5087.5200	40.72	-45.40	32.93	-67.01	-13.00	54.01	146	31	Vertical
3	6783.3600	41.00	-44.11	35.81	-62.56	-13.00	49.56	129	257	Vertical
4	8479.2000	37.84	-41.59	37.50	-61.51	-13.00	48.51	258	257	Vertical
5	10175.0400	33.22	-39.41	38.77	-62.68	-13.00	49.68	175	0	Vertical
6	11870.8800	32.86	-37.05	38.83	-60.63	-13.00	47.63	146	3	Vertical



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Test Band = 5G NR SA n70_5M_ TM1
Test Channel = Low

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3391.1800	42.45	-46.30	29.44	-69.66	-13.00	56.66	215	106	Horizontal
2	5086.7700	41.68	-45.40	32.93	-66.06	-13.00	53.06	142	1	Horizontal
3	6782.3600	40.82	-44.11	35.81	-62.74	-13.00	49.74	400	196	Horizontal
4	8477.9500	37.28	-41.58	37.49	-62.07	-13.00	49.07	250	356	Horizontal
5	10173.5400	33.17	-39.40	38.77	-62.72	-13.00	49.72	159	182	Horizontal
6	11869.1300	32.50	-37.05	38.83	-60.98	-13.00	47.98	137	3	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3391.1800	41.93	-46.30	29.44	-70.18	-13.00	57.18	248	346	Vertical
2	5086.7700	40.56	-45.40	32.93	-67.18	-13.00	54.18	159	90	Vertical
3	6782.3600	40.29	-44.11	35.81	-63.27	-13.00	50.27	236	196	Vertical
4	8477.9500	37.23	-41.58	37.49	-62.12	-13.00	49.12	251	90	Vertical
5	10173.5400	32.69	-39.40	38.77	-63.20	-13.00	50.20	146	151	Vertical
6	11869.1300	32.65	-37.05	38.83	-60.83	-13.00	47.83	219	17	Vertical



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Test Band = 5G NR SA n70_5M_ TM1
Test Channel = Mid

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3396.1800	41.17	-46.29	29.43	-70.94	-13.00	57.94	214	0	Horizontal
2	5094.2700	39.58	-45.38	32.93	-68.13	-13.00	55.13	158	1	Horizontal
3	6792.3600	40.07	-44.14	35.83	-63.51	-13.00	50.51	169	16	Horizontal
4	8490.4500	38.21	-41.60	37.52	-61.13	-13.00	48.13	192	31	Horizontal
5	10188.5400	34.64	-39.46	38.79	-61.29	-13.00	48.29	175	135	Horizontal
6	11886.6300	32.48	-37.08	38.85	-61.01	-13.00	48.01	142	150	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3396.1800	42.01	-46.29	29.43	-70.10	-13.00	57.10	245	227	Vertical
2	5094.2700	39.80	-45.38	32.93	-67.91	-13.00	54.91	126	168	Vertical
3	6792.3600	40.06	-44.14	35.83	-63.52	-13.00	50.52	159	357	Vertical
4	8490.4500	38.22	-41.60	37.52	-61.12	-13.00	48.12	147	17	Vertical
5	10188.5400	34.11	-39.46	38.79	-61.82	-13.00	48.82	153	257	Vertical
6	11886.6300	32.00	-37.08	38.85	-61.49	-13.00	48.49	269	227	Vertical



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Test Band = 5G NR SA n70_5M_ TM1
Test Channel = High

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3401.1800	42.17	-46.28	29.43	-69.94	-13.00	56.94	254	150	Horizontal
2	5101.7700	40.04	-45.37	32.94	-67.65	-13.00	54.65	129	1	Horizontal
3	6802.3600	40.14	-44.17	35.84	-63.45	-13.00	50.45	158	299	Horizontal
4	8502.9500	37.70	-41.61	37.55	-61.62	-13.00	48.62	153	226	Horizontal
5	10203.5400	34.52	-39.48	38.81	-61.41	-13.00	48.41	266	242	Horizontal
6	11904.1300	32.47	-37.13	38.87	-61.05	-13.00	48.05	217	316	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3401.1800	42.09	-46.28	29.43	-70.02	-13.00	57.02	241	0	Vertical
2	5101.7700	40.27	-45.37	32.94	-67.42	-13.00	54.42	165	357	Vertical
3	6802.3600	39.65	-44.17	35.84	-63.94	-13.00	50.94	128	77	Vertical
4	8502.9500	37.76	-41.61	37.55	-61.56	-13.00	48.56	193	357	Vertical
5	10203.5400	35.23	-39.48	38.81	-60.70	-13.00	47.70	174	77	Vertical
6	11904.1300	32.27	-37.13	38.87	-61.25	-13.00	48.25	121	240	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



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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
N70	15	15	DFT-PI2BPSK	M	Outer_Full	VH	NT	-2.300000	-0.001351	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	VN	NT	2.800000	0.001645	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	VL	NT	-3.700000	-0.002173	PASS
N70	15	15	CP-QPSK	M	Outer_Full	VH	NT	-3.900000	-0.002291	PASS
N70	15	15	CP-QPSK	M	Outer_Full	VN	NT	-4.400000	-0.002584	PASS
N70	15	15	CP-QPSK	M	Outer_Full	VL	NT	-1.400000	-0.000822	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-30	-1.400000	-0.000822	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-20	1.100000	0.000646	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	-10	-1.700000	-0.000999	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	0	-0.700000	-0.000411	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	10	-0.900000	-0.000529	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	20	-2.100000	-0.001233	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	30	4.000000	0.002349	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	40	1.300000	0.000764	PASS
N70	15	15	DFT-PI2BPSK	M	Outer_Full	NV	50	-1.800000	-0.001057	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	-30	-2.600000	-0.001527	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	-20	-2.900000	-0.001703	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	-10	-5.500000	-0.003231	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	0	-2.600000	-0.001527	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	10	-6.100000	-0.003583	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	20	-5.100000	-0.002996	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	30	-2.400000	-0.001410	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	40	-2.700000	-0.001586	PASS
N70	15	15	CP-QPSK	M	Outer_Full	NV	50	-4.400000	-0.002584	PASS

---End of Attachment---



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South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone 215000
 中国·苏州·中国(江苏)自由贸易试验区苏州片区苏州工业园区润胜路1号的6号厂房南楼 邮编: 215000

t (86-512) 62992980 www.sgs.com.cn
 t (86-512) 62992980 sgs.china@sgs.com