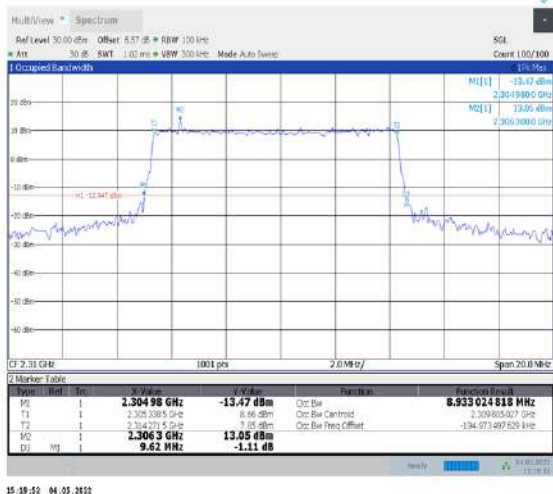


Report No.: SEWM2304000122RG02

Rev.: 01

Page: 25 of 49



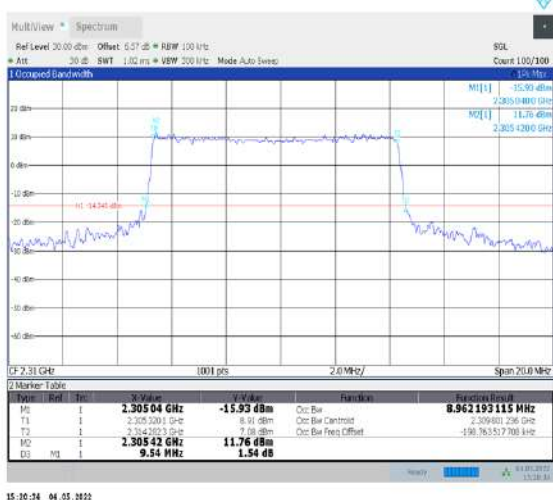
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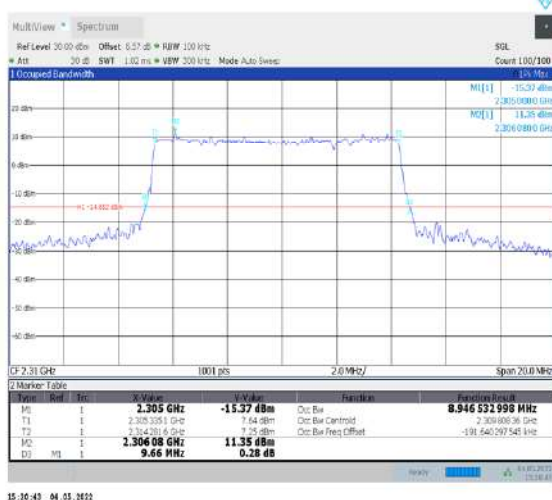
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1-N30--15-10-M-2-DFT-PI2BPSK-Outer_Full-50@0-Ant1-8.919-9.360-≤10-PASS



15-10-10 04.05.2022



15-10-10 04.05.2022

1-N30--15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant1-8.962-9.540-≤10-PASS

1-N30--15-10-M-4-DFT-64QAM-Outer_Full-50@0-Ant1-8.947-9.660-≤10-PASS



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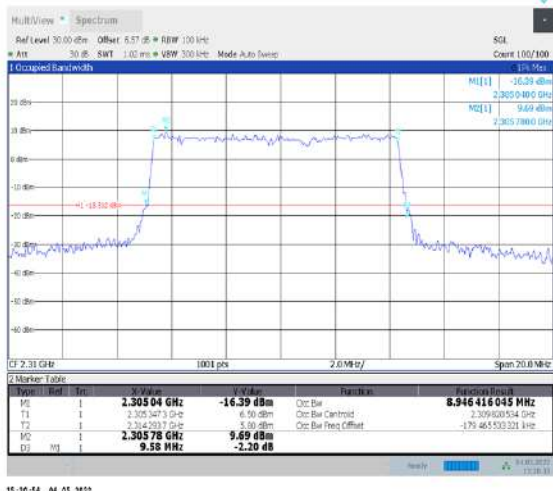
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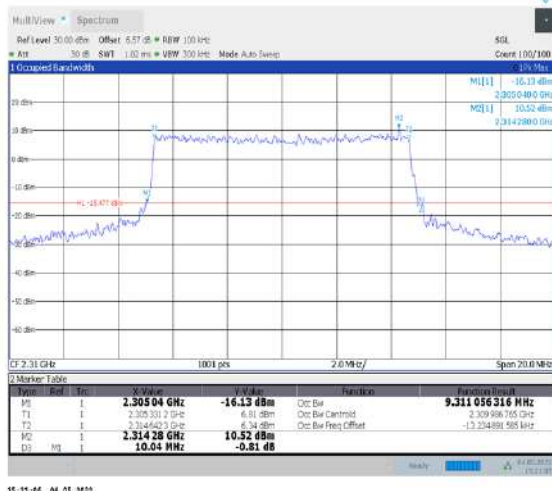
Report No.: SEWM2304000122RG02

Rev.: 01

Page: 26 of 49



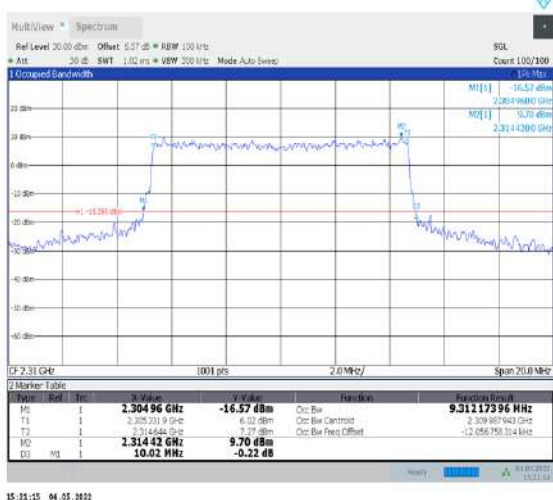
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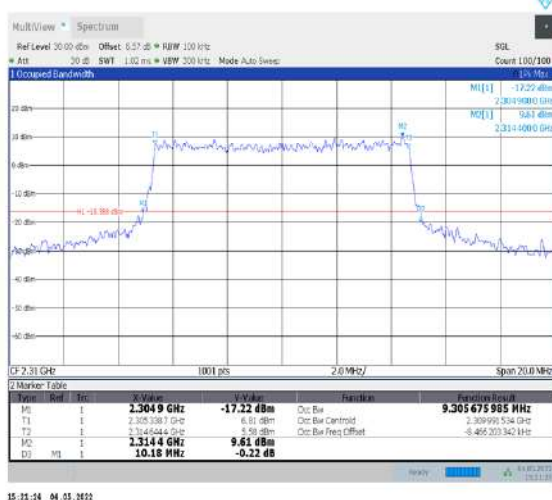
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1-N30--15-10-M-5-DFT-256QAM-Outer_Full-50@0-Ant1-8.946-9.580-≤10-PASS

1-N30--15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant1-9.311-10.040-≤10-PASS



15-10-14 04.05.2022



15-10-14 04.05.2022

1-N30--15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant1-9.312-10.020-≤10-PASS

1-N30--15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant1-9.306-10.180-≤10-PASS



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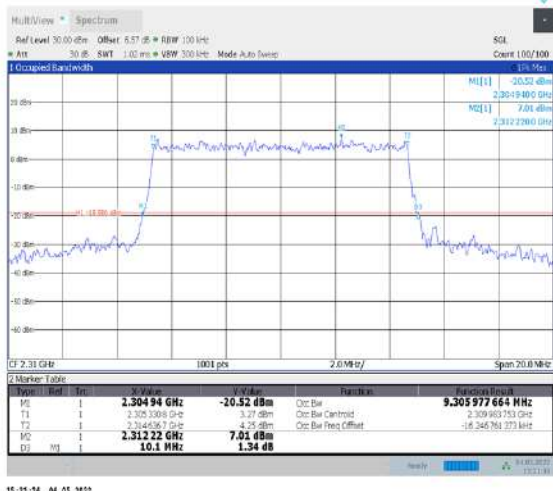
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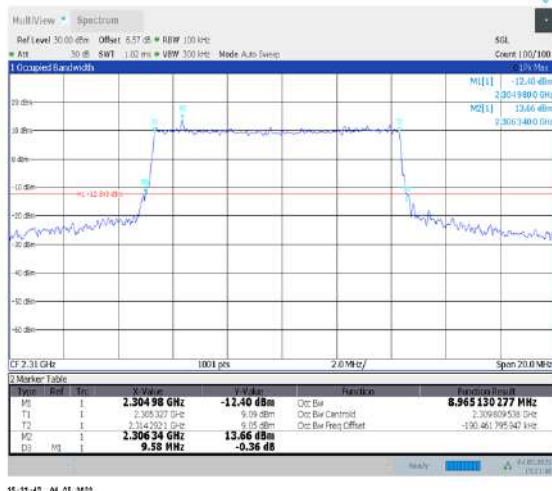
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Rev.: 01

Page: 27 of 49



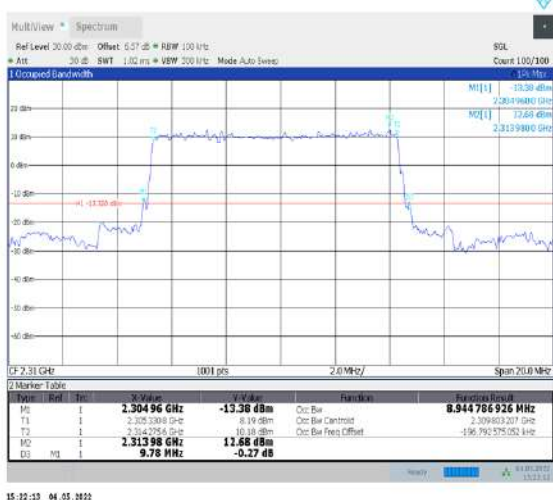
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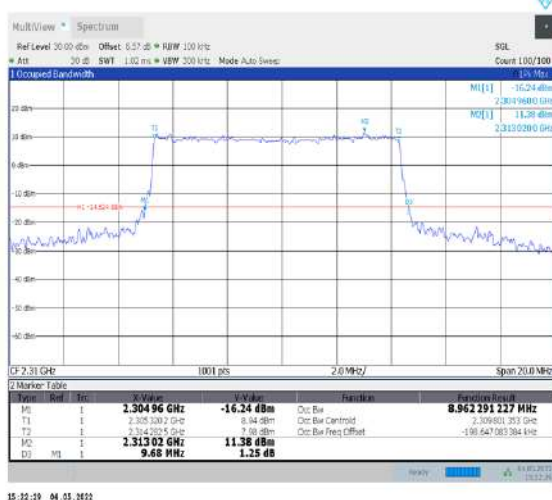
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1-N30--15-10-H-1-DFT-QPSK-Outer_Full-50@0-Ant1-8.965-9.580-≤10-PASS



15-12-13 04:05:2022



15-12-29 04:05:2022

1-N30--15-10-H-2-DFT-PI2BPSK-Outer_Full-50@0-Ant1-8.945-9.780-≤10-PASS

1-N30--15-10-H-3-DFT-16QAM-Outer_Full-50@0-Ant1-8.962-9.680-≤10-PASS



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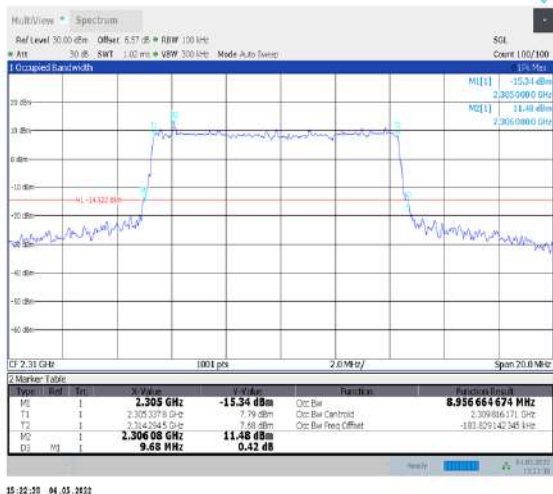
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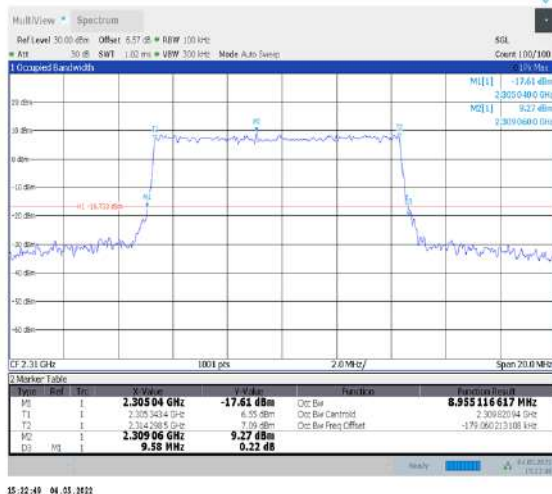
Report No.: SEWM2304000122RG02

Rev.: 01

Page: 28 of 49



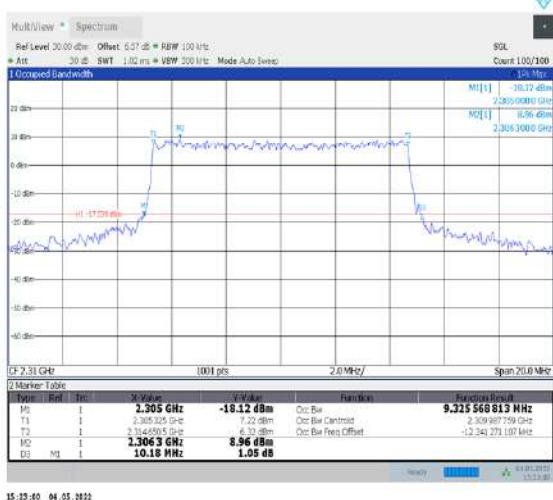
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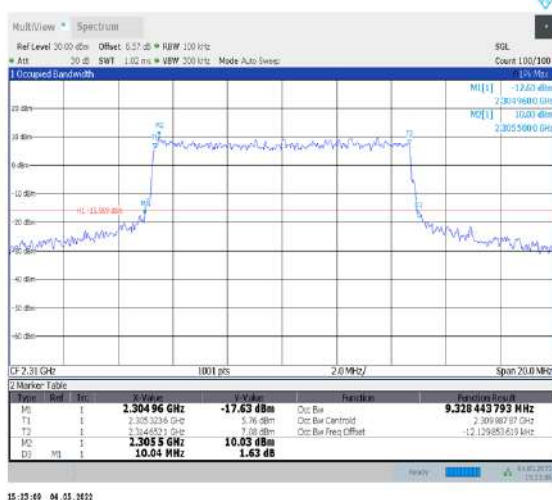
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1-N30--15-10-H-4-DFT-64QAM-Outer_Full-50@0-Ant1-8.957-9.680-≤10-PASS

1-N30--15-10-H-5-DFT-256QAM-Outer_Full-50@0-Ant1-8.955-9.580-≤10-PASS



15-10-10 04.05.2022



15-10-10 04.05.2022

1-N30--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-9.326-10.180-≤10-PASS

1-N30--15-10-H-7-CP-16QAM-Outer_Full-52@0-Ant1-9.328-10.040-≤10-PASS



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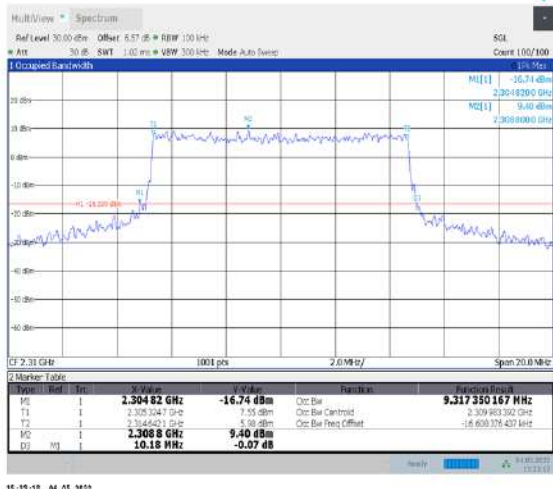
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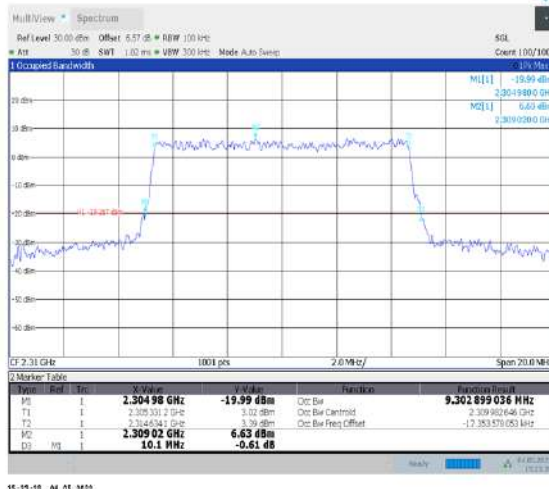
Report No.: SEWM2304000122RG02

Rev.: 01

Page: 29 of 49



1-N30--15-10-H-8-CP-64QAM-Outter_Full-52@0-
Ant1-9.317-10.180-≤10-PASS



1-N30--15-10-H-9-CP-256QAM-Outter_Full-52@0-
Ant1-9.303-10.100-≤10-PASS



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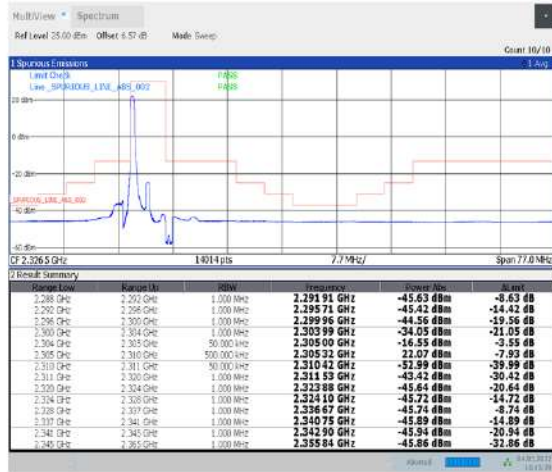
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Report No.: SEWM2304000122RG02
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Page: 30 of 49

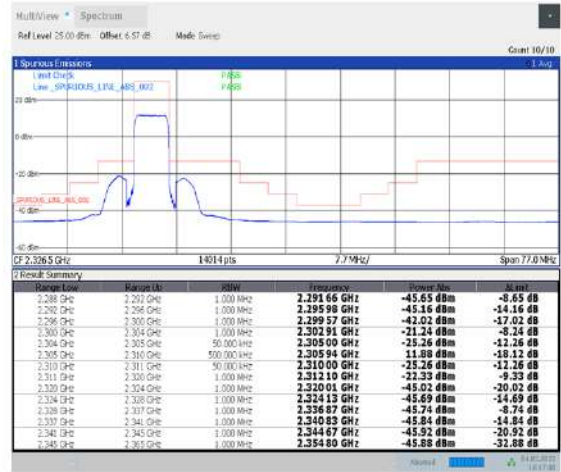
Band Edge for SA

Test Graphs



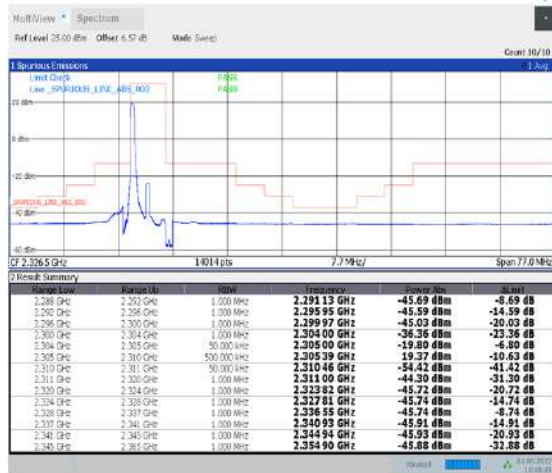
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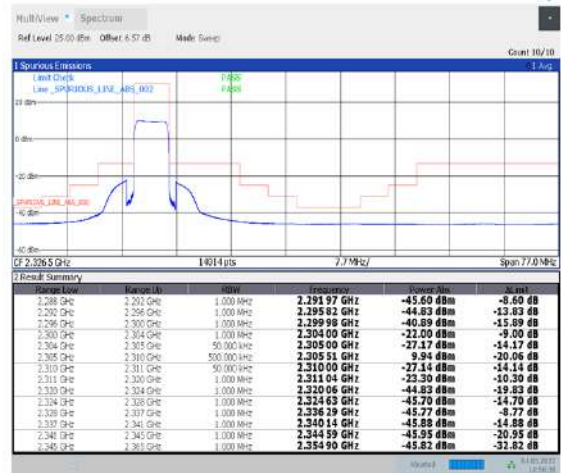
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14:50:19 04.05.2022

1-N30--15-5-L-6-CP-QPSK-Outer_Full-25@0-Ant1-PASS-see graph



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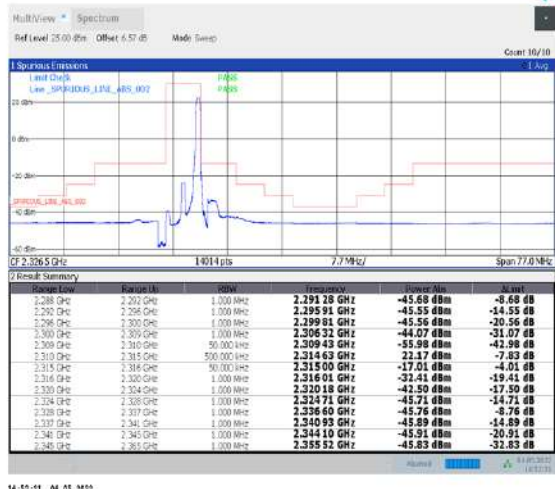
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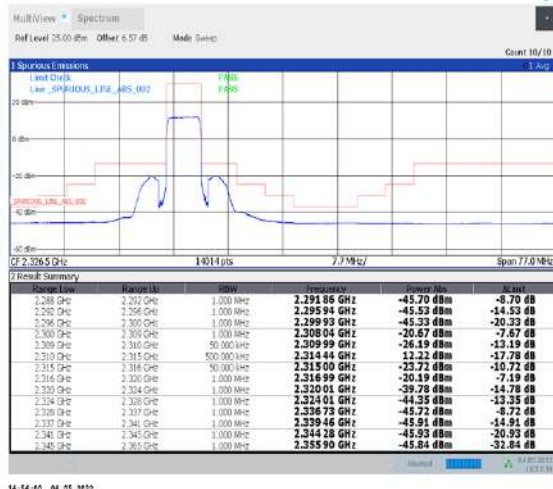
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Page: 31 of 49



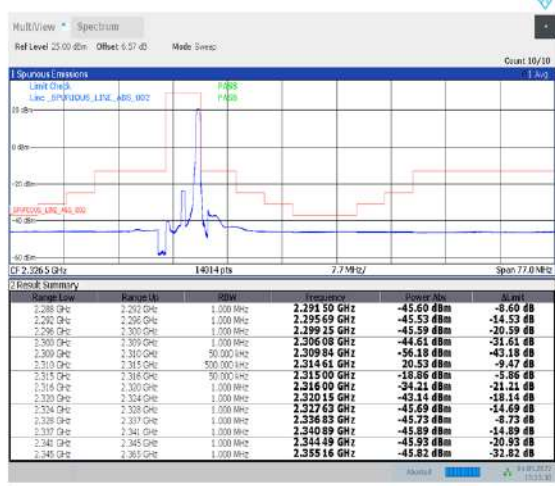
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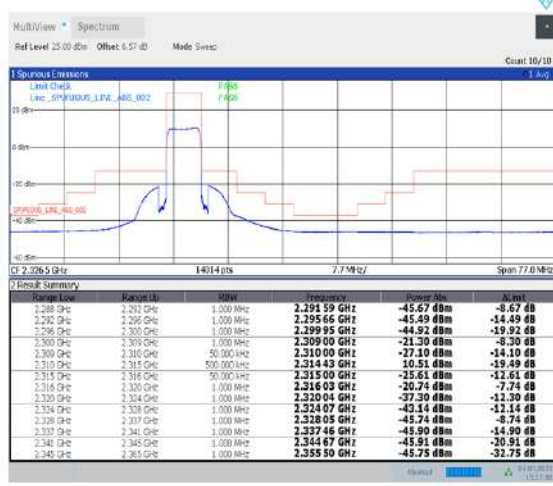
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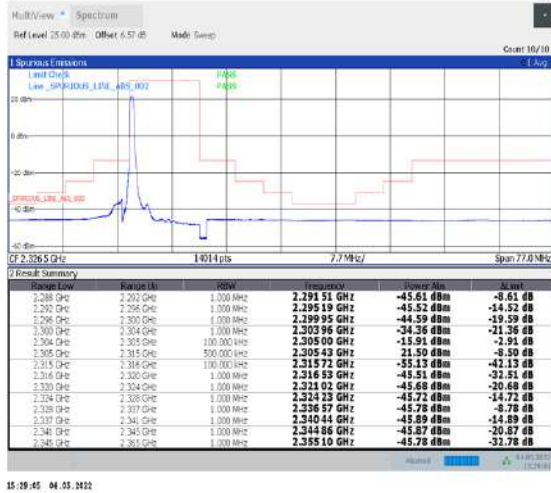
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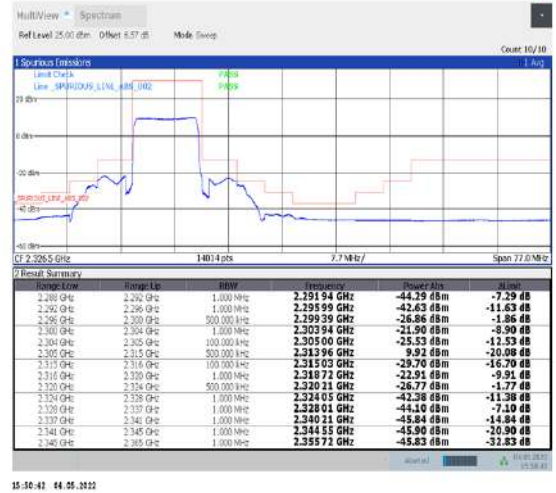
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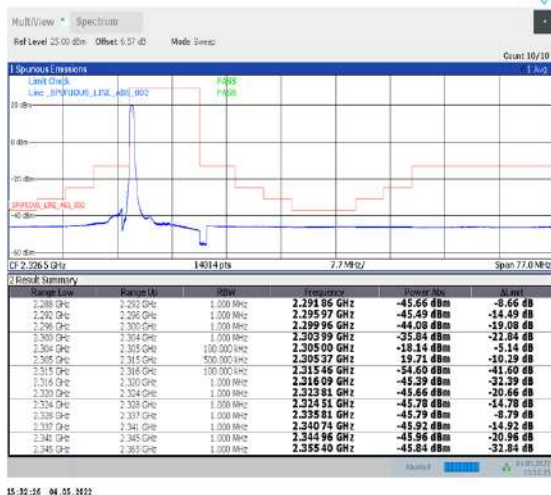
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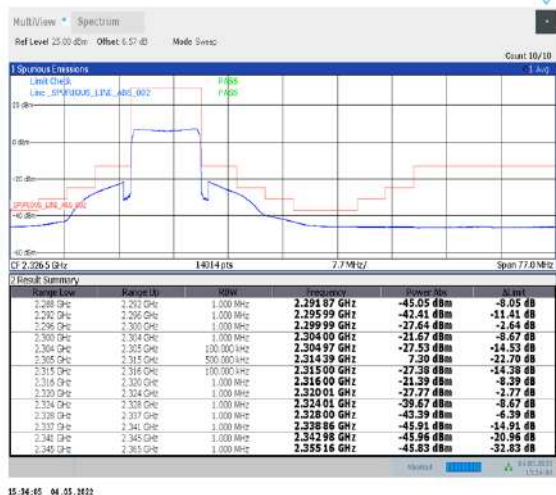
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1-N30--15-10-L-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph



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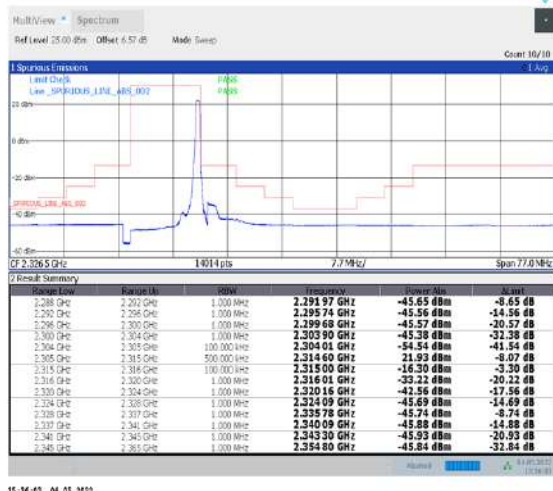
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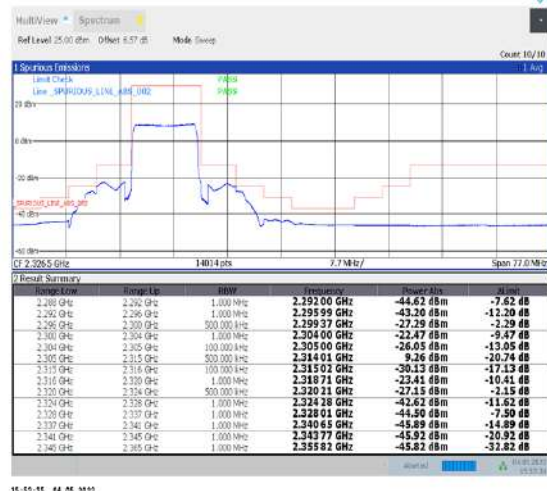
Rev.: 01

Page: 33 of 49



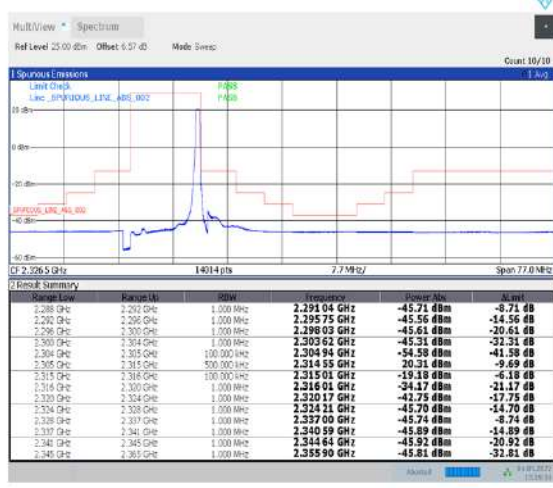
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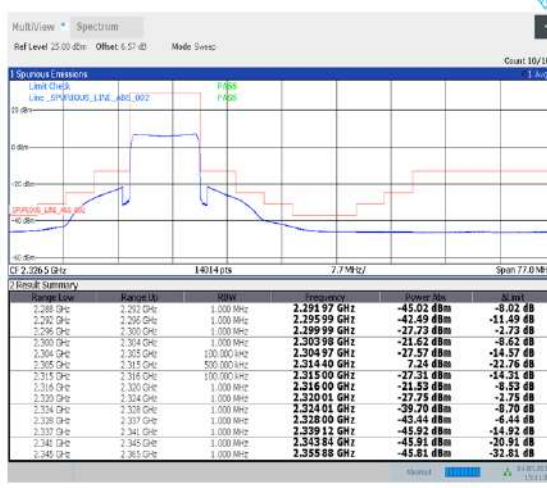
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1-N30--15-10-H-5-CP-QPSK-Edge_1RB_Right-1@51-Ant1-PASS-see graph



15-45:43 04.05.2022

1-N30--15-10-H-6-CP-QPSK-Outer_Full-52@0-Ant1-PASS-see graph



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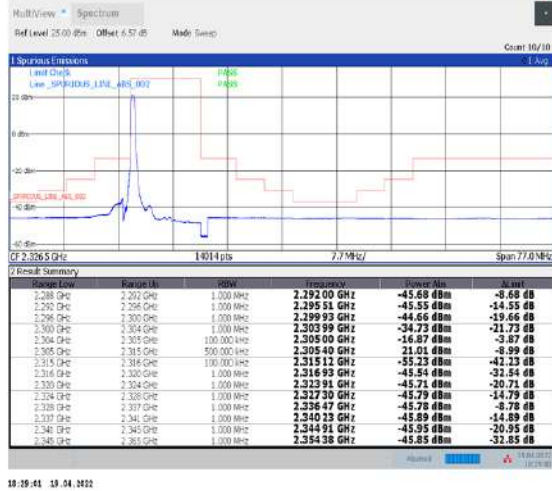
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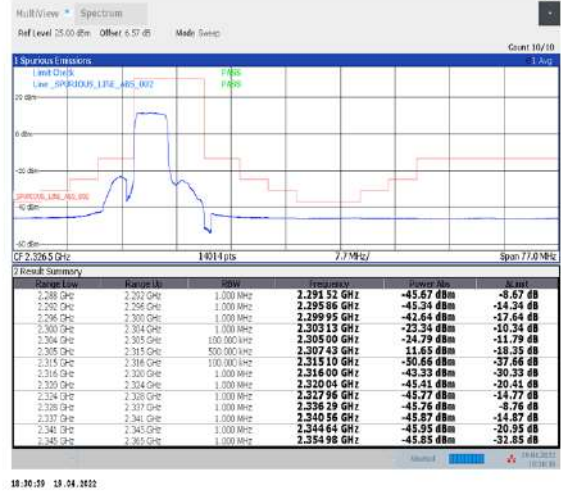
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Page: 34 of 49



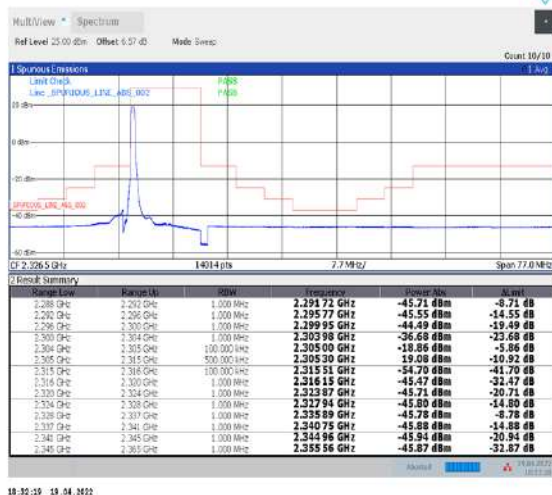
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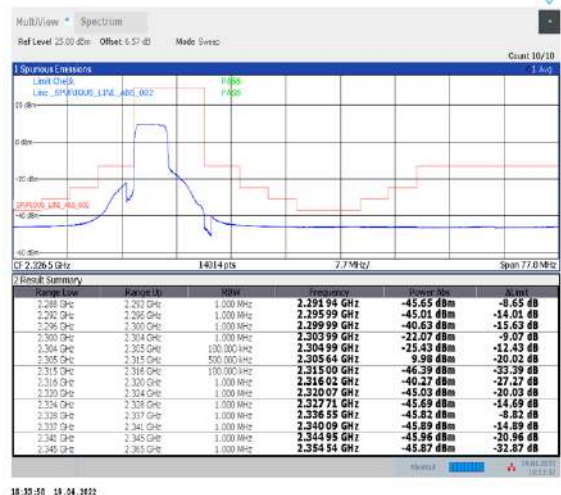
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1-N30--30-10-L-3-DFT-PI2BPSK-Outer_Full-24@0-Ant1-PASS-see graph



18-10-18 18-04-2022

1-N30--30-10-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



18-10-18 18-04-2022

1-N30--30-10-L-6-CP-QPSK-Outer_Full-24@0-Ant1-PASS-see graph



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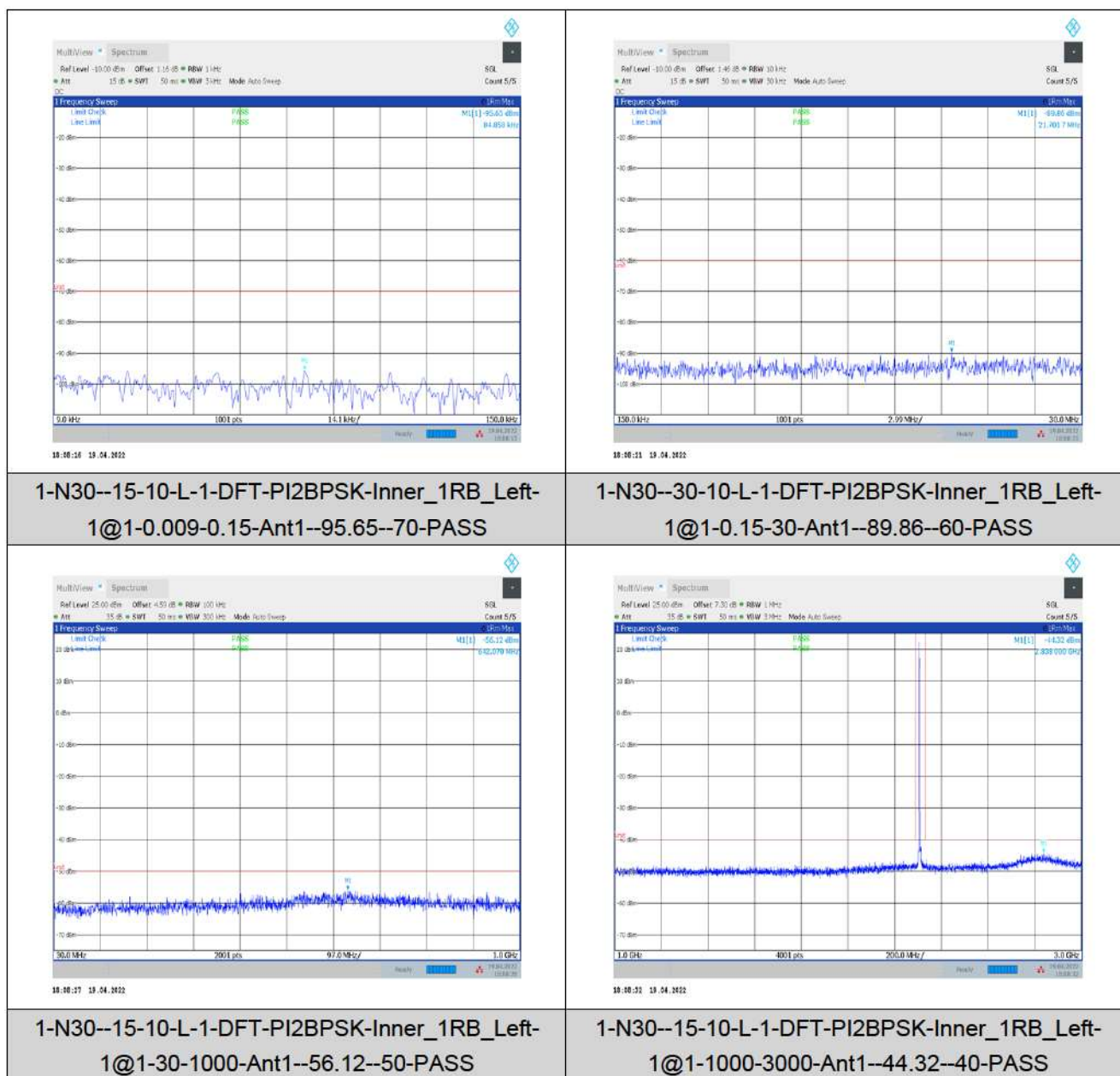
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Rev.: 01
Page: 35 of 49

Conducted Spurious Emission for SA

Test Graphs



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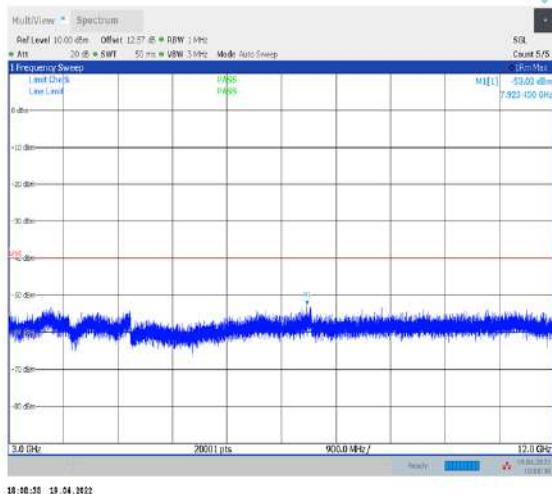
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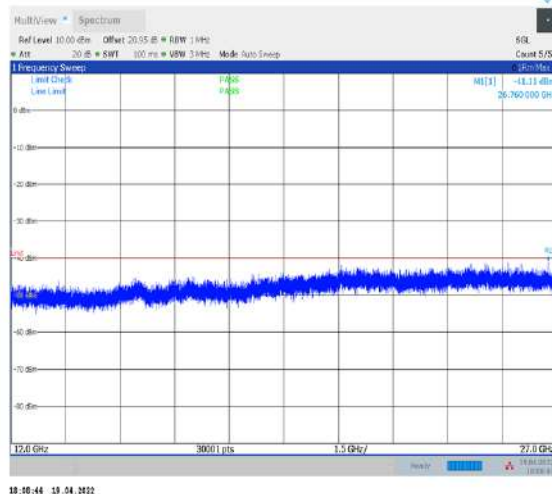
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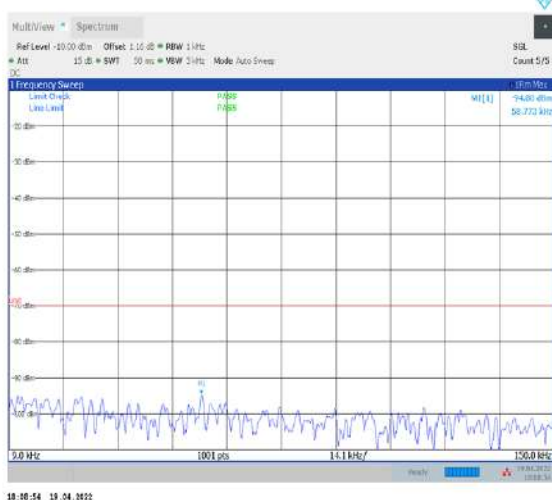
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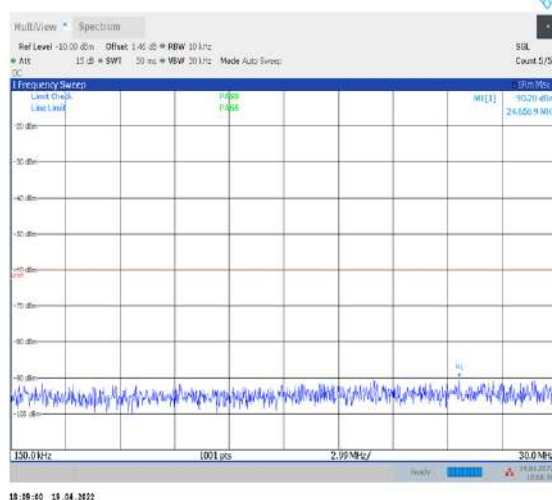
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1-N30--15-10-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-27000-Ant1--41.11--40-PASS



1-N30--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1--94.80--70-PASS



1-N30--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1--90.20--60-PASS



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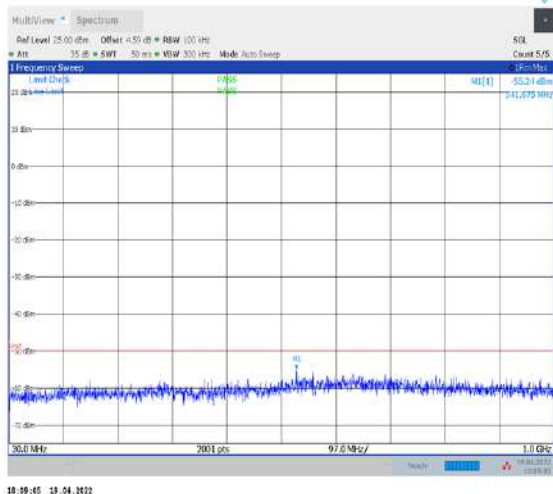
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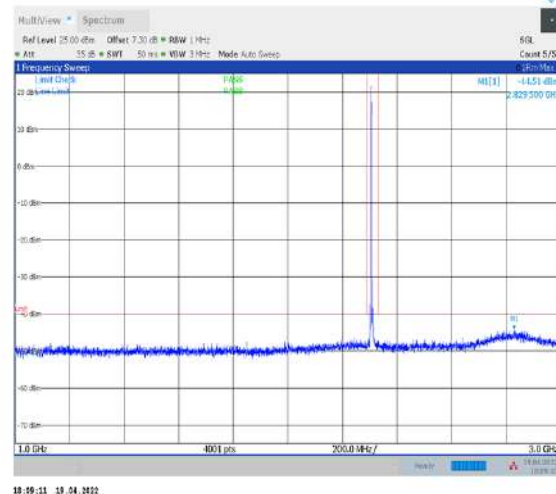
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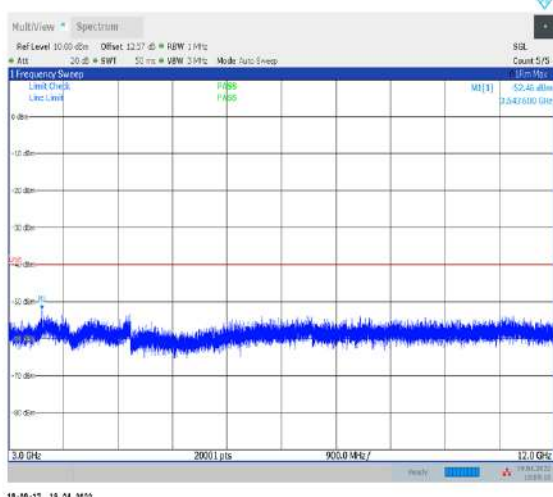
Page: 37 of 49



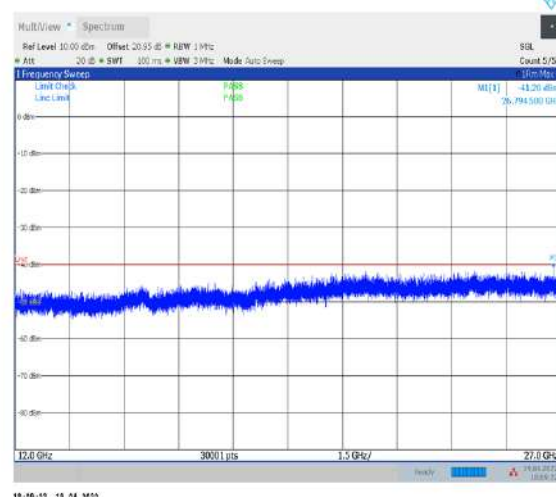
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1-N30--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-3000-12000-Ant1--52.46--40-PASS



1-N30--15-10-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-27000-Ant1--41.20--40-PASS



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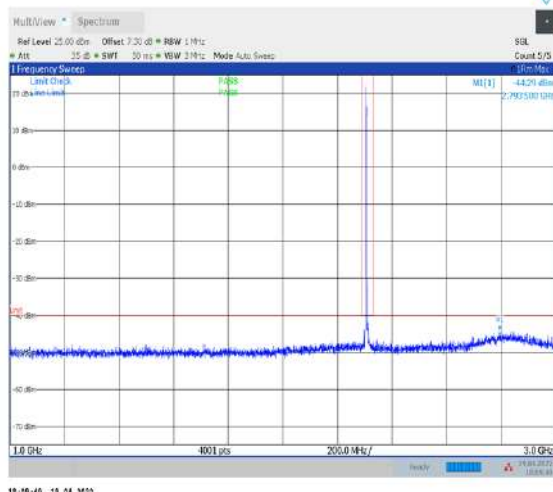
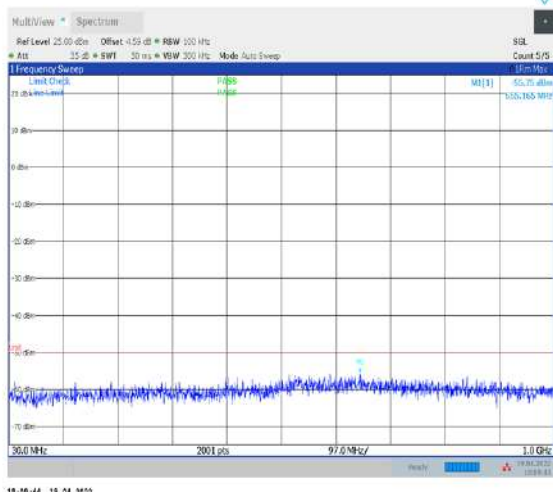
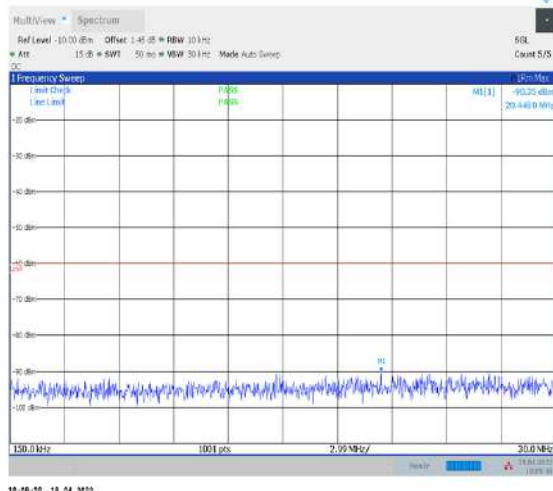
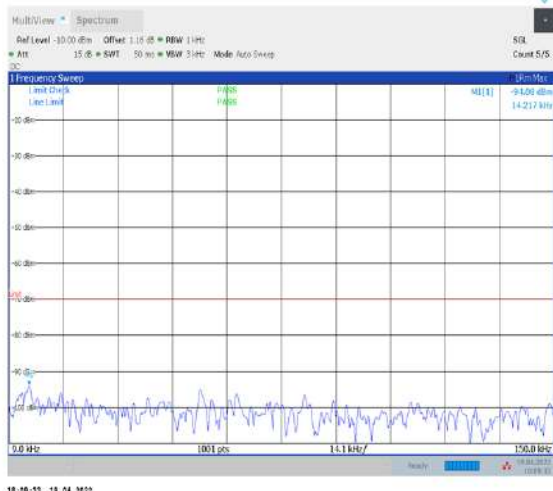
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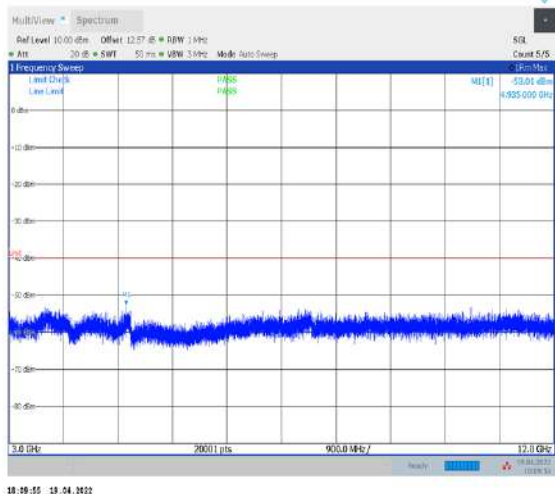
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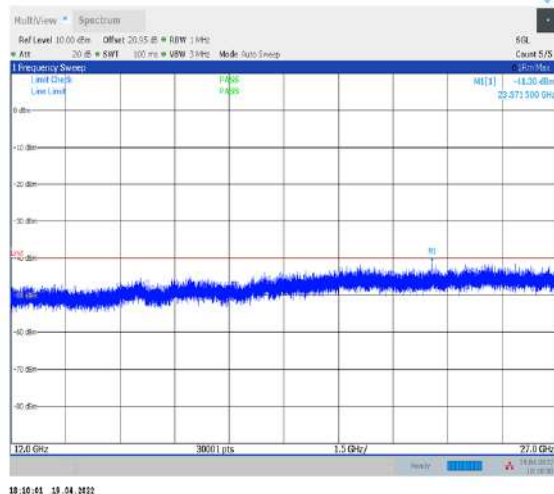
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1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-
1@1-3000-12000-Ant1--53.01--40-PASS



1-N30--15-10-H-1-DFT-PI2BPSK-Inner_1RB_Left-
1@1-12000-27000-Ant1--41.30--40-PASS



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Rev.: 01

Page: 40 of 49

Field Strength of Spurious Radiation

Test Band = SA Band 30 BW 10M_ TM1

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	4611.18	50.73	-108.05	-57.32	-40.00	17.32	263	96	Horizontal
2	6916.77	47.76	-101.68	-53.92	-40.00	13.92	251	263	Horizontal
3	9222.36	46.21	-95.08	-48.87	-40.00	8.87	142	241	Horizontal
4	11527.95	42.88	-91.44	-48.56	-40.00	8.56	266	357	Horizontal
5	13833.54	42.16	-90.03	-47.87	-40.00	7.87	244	144	Horizontal
6	16139.13	41.92	-90.60	-48.68	-40.00	8.68	265	302	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4611.18	49.14	-108.05	-58.91	-40.00	18.91	263	1	Vertical
2	6916.77	49.70	-101.68	-51.98	-40.00	11.98	251	0	Vertical
3	9222.36	47.06	-95.08	-48.02	-40.00	8.02	142	278	Vertical
4	11527.95	42.64	-91.44	-48.80	-40.00	8.80	284	7	Vertical
5	13833.54	43.32	-90.03	-46.71	-40.00	6.71	176	81	Vertical
6	16139.13	42.40	-90.60	-48.20	-40.00	8.20	265	302	Vertical



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Rev.: 01

Page: 41 of 49

Test Band = SA Band 30 BW 5M_ TM1
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	4610.68	52.55	-108.05	-55.50	-40.00	15.50	163	161	Horizontal
2	6916.02	48.52	-101.68	-53.16	-40.00	13.16	251	185	Horizontal
3	9221.36	46.72	-95.08	-48.36	-40.00	8.36	174	104	Horizontal
4	11526.7	42.18	-91.44	-49.26	-40.00	9.26	186	115	Horizontal
5	13832.04	42.32	-90.05	-47.73	-40.00	7.73	265	151	Horizontal
6	16137.38	43.17	-90.62	-47.45	-40.00	7.45	244	209	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.68	51.43	-108.05	-56.62	-40.00	16.62	163	348	Vertical
2	6916.02	47.81	-101.68	-53.87	-40.00	13.87	284	7	Vertical
3	9221.36	46.94	-95.08	-48.14	-40.00	8.14	176	337	Vertical
4	11526.7	42.28	-91.44	-49.16	-40.00	9.16	255	348	Vertical
5	13832.04	42.67	-90.05	-47.38	-40.00	7.38	144	0	Vertical
6	16137.38	42.17	-90.62	-48.45	-40.00	8.45	177	326	Vertical



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

Report No.: SEWM2304000122RG02

Rev.: 01

Page: 42 of 49

Test Band = SA Band 30 BW 5M_ TM1
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	4615.68	51.22	-108.03	-56.81	-40.00	16.81	263	234	Horizontal
2	6923.52	49.49	-101.68	-52.19	-40.00	12.19	241	44	Horizontal
3	9231.36	47.60	-95.08	-47.48	-40.00	7.48	176	22	Horizontal
4	11539.2	41.65	-91.51	-49.86	-40.00	9.86	284	326	Horizontal
5	13847.04	42.05	-89.92	-47.87	-40.00	7.87	176	326	Horizontal
6	16154.88	41.95	-90.46	-48.51	-40.00	8.51	254	7	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.68	49.75	-108.03	-58.28	-40.00	18.28	263	47	Vertical
2	6923.52	49.50	-101.68	-52.18	-40.00	12.18	251	117	Vertical
3	9231.36	46.68	-95.08	-48.40	-40.00	8.40	174	314	Vertical
4	11539.2	41.11	-91.51	-50.40	-40.00	10.40	186	349	Vertical
5	13847.04	42.34	-89.92	-47.58	-40.00	7.58	254	57	Vertical
6	16154.88	42.59	-90.46	-47.87	-40.00	7.87	144	35	Vertical



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

Report No.: SEWM2304000122RG02

Rev.: 01

Page: 43 of 49

Test Band = SA Band 30 BW 5M_ TM1
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	4620.68	49.99	-108.00	-58.01	-40.00	18.01	142	44	Horizontal
2	6931.02	49.21	-101.68	-52.47	-40.00	12.47	263	196	Horizontal
3	9241.32	47.16	-95.08	-47.92	-40.00	7.92	286	303	Horizontal
4	11551.7	42.07	-91.59	-49.52	-40.00	9.52	241	44	Horizontal
5	13862.04	41.09	-89.78	-48.69	-40.00	8.69	177	44	Horizontal
6	16172.38	43.03	-90.28	-47.25	-40.00	7.25	266	92	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.68	49.40	-108.00	-58.60	-40.00	18.60	142	14	Vertical
2	6931.02	47.89	-101.68	-53.79	-40.00	13.79	263	14	Vertical
3	9241.32	48.85	-95.08	-46.23	-40.00	6.23	286	209	Vertical
4	11551.7	41.27	-91.59	-50.32	-40.00	10.32	241	245	Vertical
5	13862.04	42.08	-89.78	-47.70	-40.00	7.70	177	0	Vertical
6	16172.38	41.98	-90.28	-48.30	-40.00	8.30	261	245	Vertical



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

Report No.: SEWM2304000122RG02

Rev.: 01

Page: 44 of 49

Test on the worst case:

Test Band = SA Band 30 BW 10M_ TM1
Test Channel = Mid Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	6916	45.19	-42.46	36.03	-56.49	-40.00	16.49	296	334	Horizontal
2	4611.18	41.66	-44.45	31.67	-66.39	-40.00	26.39	254	252	Horizontal
3	9222.36	35.57	-38.40	38.58	-59.51	-40.00	19.51	142	20	Horizontal
4	11527.95	31.80	-35.24	39.07	-59.63	-40.00	19.63	263	104	Horizontal
5	13833.54	33.31	-34.88	40.10	-56.73	-40.00	16.73	222	294	Horizontal
6	16139.13	31.91	-33.34	38.00	-58.69	-40.00	18.69	178	166	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	4611	45.19	-44.46	31.67	-62.86	-40.00	22.86	296	63	Vertical
2	6916.5	48.94	-42.46	36.03	-52.74	-40.00	12.74	265	44	Vertical
3	9222.36	36.42	-38.40	38.58	-58.66	-40.00	18.66	284	360	Vertical
4	11527.95	31.97	-35.24	39.07	-59.46	-40.00	19.46	142	360	Vertical
5	13833.54	32.47	-34.88	40.10	-57.57	-40.00	17.57	263	81	Vertical
6	16139.13	32.02	-33.34	38.00	-58.58	-40.00	18.58	227	360	Vertical



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Report No.: SEWM2304000122RG02
 Rev.: 01
 Page: 45 of 49

Test Band = SA Band 30 BW 5M_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4610.68	42.05	-44.46	31.67	-66.00	-40.00	26.00	185	40	Horizontal
2	6916.02	40.86	-42.46	36.03	-60.82	-40.00	20.82	265	360	Horizontal
3	9221.36	35.50	-38.40	38.58	-59.58	-40.00	19.58	241	41	Horizontal
4	11526.7	32.07	-35.24	39.07	-59.36	-40.00	19.36	142	273	Horizontal
5	13832.04	33.31	-34.89	40.10	-56.74	-40.00	16.74	263	348	Horizontal
6	16137.38	31.37	-33.36	38.00	-59.25	-40.00	19.25	224	166	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	4610.68	42.01	-44.46	31.67	-66.04	-40.00	26.04	296	204	Vertical
2	6916.02	40.64	-42.46	36.03	-61.04	-40.00	21.04	265	360	Vertical
3	9221.36	34.63	-38.40	38.58	-60.45	-40.00	20.45	254	360	Vertical
4	11526.7	32.86	-35.24	39.07	-58.57	-40.00	18.57	174	253	Vertical
5	13832.04	33.50	-34.89	40.10	-56.55	-40.00	16.55	142	359	Vertical
6	16137.38	31.41	-33.36	38.00	-59.21	-40.00	19.21	263	102	Vertical



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Report No.: SEWM2304000122RG02

Rev.: 01

Page: 46 of 49

Test Band = SA Band 30 BW 5M_ TM1

Test Channel = Mid Channel

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4615.68	42.03	-44.44	31.68	-66.00	-40.00	26.00	196	19	Horizontal
2	6923.52	41.46	-42.47	36.05	-60.22	-40.00	20.22	265	360	Horizontal
3	9231.36	36.06	-38.40	38.58	-59.02	-40.00	19.02	284	357	Horizontal
4	11539.2	31.89	-35.31	39.06	-59.62	-40.00	19.62	142	272	Horizontal
5	13847.04	33.09	-34.76	40.11	-56.82	-40.00	16.82	263	100	Horizontal
6	16154.88	32.33	-33.21	38.01	-58.13	-40.00	18.13	225	251	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	6923.5	51.30	-42.47	36.05	-50.38	-40.00	10.38	196	66	Vertical
2	4615.68	43.89	-44.44	31.68	-64.14	-40.00	24.14	265	45	Vertical
3	9231.36	35.01	-38.40	38.58	-60.07	-40.00	20.07	284	19	Vertical
4	11539.2	31.34	-35.31	39.06	-60.17	-40.00	20.17	142	240	Vertical
5	13847.04	32.41	-34.76	40.11	-57.50	-40.00	17.50	263	187	Vertical
6	16154.88	31.99	-33.21	38.01	-58.47	-40.00	18.47	223	330	Vertical



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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

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

Report No.: SEWM2304000122RG02

Rev.: 01

Page: 47 of 49

Test Band = SA Band 30 BW 5M_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	4620.68	41.81	-44.43	31.69	-66.19	-40.00	26.19	196	3	Horizontal
2	6931.02	40.65	-42.48	36.06	-61.03	-40.00	21.03	265	63	Horizontal
3	9241.32	35.00	-38.40	38.58	-60.08	-40.00	20.08	284	81	Horizontal
4	11551.7	32.32	-35.38	39.05	-59.27	-40.00	19.27	142	81	Horizontal
5	13862.04	32.47	-34.63	40.12	-57.31	-40.00	17.31	263	82	Horizontal
6	16172.38	31.68	-33.06	38.02	-58.62	-40.00	18.62	204	102	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	4620.68	41.25	-44.43	31.69	-66.75	-40.00	26.75	254	3	Vertical
2	6931.02	40.06	-42.48	36.06	-61.62	-40.00	21.62	142	144	Vertical
3	9241.32	34.85	-38.40	38.58	-60.23	-40.00	20.23	285	3	Vertical
4	11551.7	31.72	-35.38	39.05	-59.87	-40.00	19.87	263	20	Vertical
5	13862.04	33.01	-34.63	40.12	-56.77	-40.00	16.77	254	360	Vertical
6	16172.38	32.18	-33.06	38.02	-58.12	-40.00	18.12	187	209	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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t (86-512) 62992980 sgs.china@sgs.com

Report No.: SEWM2304000122RG02

Rev.: 01

Page: 48 of 49

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
N30	30	10	DFT-PI2BPSK	M	Outer_Full	VH	NT	3.100000	0.001342	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	VN	NT	3.400000	0.001472	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	VL	NT	-1.400000	-0.000606	PASS
N30	30	10	CP-QPSK	M	Outer_Full	VH	NT	-2.500000	-0.001082	PASS
N30	30	10	CP-QPSK	M	Outer_Full	VN	NT	2.000000	0.000866	PASS
N30	30	10	CP-QPSK	M	Outer_Full	VL	NT	-3.400000	-0.001472	PASS



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

Report No.: SEWM2304000122RG02

Rev.: 01

Page: 49 of 49

Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	-30	10.500000	0.004545	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	-20	9.300000	0.004026	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	-10	2.400000	0.001039	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	0	1.700000	0.000736	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	10	12.300000	0.005325	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	20	2.500000	0.001082	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	30	10.400000	0.004502	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	40	6.300000	0.002727	PASS
N30	30	10	DFT-PI2BPSK	M	Outer_Full	NV	50	1.400000	0.000606	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	-30	3.800000	0.001645	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	-20	-0.700000	-0.000303	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	-10	4.700000	0.002035	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	0	4.700000	0.002035	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	10	0.800000	0.000346	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	20	0.300000	0.000130	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	30	1.600000	0.000693	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	40	5.600000	0.002424	PASS
N30	30	10	CP-QPSK	M	Outer_Full	NV	50	5.500000	0.002381	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