

Report No.: SEWM2308000314RG02
Rev.: 01
Page: 1 of 31

Appendix B.20

NR Band n26(824-849)



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT1

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit	Verdict
N26-824-849	15	5	DFT-QPSK	L	Inner_1RB_Left	24.07	19.62	38.45	PASS
N26-824-849	15	5	DFT-16QAM	L	Inner_1RB_Left	23.28	18.83	38.45	PASS
N26-824-849	15	5	DFT-QPSK	M	Inner_1RB_Left	24.21	19.76	38.45	PASS
N26-824-849	15	5	DFT-16QAM	M	Inner_1RB_Left	23.30	18.85	38.45	PASS
N26-824-849	15	5	DFT-QPSK	H	Inner_1RB_Left	24.06	19.61	38.45	PASS
N26-824-849	15	5	DFT-16QAM	H	Inner_1RB_Left	23.40	18.95	38.45	PASS
N26-824-849	15	10	DFT-QPSK	L	Inner_1RB_Left	23.95	19.50	38.45	PASS
N26-824-849	15	10	DFT-16QAM	L	Inner_1RB_Left	23.09	18.64	38.45	PASS
N26-824-849	15	10	DFT-QPSK	M	Inner_1RB_Left	24.09	19.64	38.45	PASS
N26-824-849	15	10	DFT-16QAM	M	Inner_1RB_Left	23.46	19.01	38.45	PASS
N26-824-849	15	10	DFT-QPSK	H	Inner_1RB_Left	23.97	19.52	38.45	PASS
N26-824-849	15	10	DFT-16QAM	H	Inner_1RB_Left	23.29	18.84	38.45	PASS
N26-824-849	15	15	DFT-QPSK	L	Inner_1RB_Left	23.98	19.53	38.45	PASS
N26-824-849	15	15	DFT-16QAM	L	Inner_1RB_Left	23.19	18.74	38.45	PASS
N26-824-849	15	15	DFT-QPSK	M	Inner_1RB_Left	23.94	19.49	38.45	PASS
N26-824-849	15	15	DFT-16QAM	M	Inner_1RB_Left	23.34	18.89	38.45	PASS
N26-824-849	15	15	DFT-QPSK	H	Inner_1RB_Left	24.01	19.56	38.45	PASS
N26-824-849	15	15	DFT-16QAM	H	Inner_1RB_Left	23.32	18.87	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	24.00	19.55	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	24.21	19.76	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	L	Outer_Full	23.71	19.26	38.45	PASS
N26-824-849	15	20	DFT-QPSK	L	Inner_1RB_Left	24.34	19.89	38.45	PASS
N26-824-849	15	20	DFT-QPSK	L	Inner_1RB_Right	24.41	19.96	38.45	PASS
N26-824-849	15	20	DFT-QPSK	L	Outer_Full	23.12	18.67	38.45	PASS
N26-824-849	15	20	DFT-16QAM	L	Inner_1RB_Left	23.17	18.72	38.45	PASS
N26-824-849	15	20	DFT-16QAM	L	Inner_1RB_Right	23.57	19.12	38.45	PASS
N26-824-849	15	20	DFT-16QAM	L	Outer_Full	22.40	17.95	38.45	PASS
N26-824-849	15	20	DFT-64QAM	L	Inner_1RB_Left	21.51	17.06	38.45	PASS
N26-824-849	15	20	DFT-64QAM	L	Inner_1RB_Right	21.76	17.31	38.45	PASS
N26-824-849	15	20	DFT-64QAM	L	Outer_Full	21.95	17.50	38.45	PASS



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Report No.: SEWM2308000314RG02

Rev.: 01

Page: 3 of 31

N26-824-849	15	20	DFT-256QAM	L	Inner_1RB_Left	19.91	15.46	38.45	PASS
N26-824-849	15	20	DFT-256QAM	L	Inner_1RB_Right	20.06	15.61	38.45	PASS
N26-824-849	15	20	DFT-256QAM	L	Outer_Full	19.88	15.43	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Inner_1RB_Left	24.02	19.57	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Inner_1RB_Right	24.19	19.74	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	23.56	19.11	38.45	PASS
N26-824-849	15	20	DFT-QPSK	M	Inner_1RB_Left	24.21	19.76	38.45	PASS
N26-824-849	15	20	DFT-QPSK	M	Inner_1RB_Right	24.37	19.92	38.45	PASS
N26-824-849	15	20	DFT-QPSK	M	Outer_Full	23.21	18.76	38.45	PASS
N26-824-849	15	20	DFT-16QAM	M	Inner_1RB_Left	23.35	18.90	38.45	PASS
N26-824-849	15	20	DFT-16QAM	M	Inner_1RB_Right	23.43	18.98	38.45	PASS
N26-824-849	15	20	DFT-16QAM	M	Outer_Full	22.46	18.01	38.45	PASS
N26-824-849	15	20	DFT-64QAM	M	Inner_1RB_Left	21.67	17.22	38.45	PASS
N26-824-849	15	20	DFT-64QAM	M	Inner_1RB_Right	21.60	17.15	38.45	PASS
N26-824-849	15	20	DFT-64QAM	M	Outer_Full	21.87	17.42	38.45	PASS
N26-824-849	15	20	DFT-256QAM	M	Inner_1RB_Left	19.93	15.48	38.45	PASS
N26-824-849	15	20	DFT-256QAM	M	Inner_1RB_Right	19.97	15.52	38.45	PASS
N26-824-849	15	20	DFT-256QAM	M	Outer_Full	19.82	15.37	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	H	Inner_1RB_Left	23.98	19.53	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	H	Inner_1RB_Right	24.19	19.74	38.45	PASS
N26-824-849	15	20	DFT-PI2BPSK	H	Outer_Full	23.60	19.15	38.45	PASS
N26-824-849	15	20	DFT-QPSK	H	Inner_1RB_Left	24.54	20.09	38.45	PASS
N26-824-849	15	20	DFT-QPSK	H	Inner_1RB_Right	24.32	19.87	38.45	PASS
N26-824-849	15	20	DFT-QPSK	H	Outer_Full	23.25	18.80	38.45	PASS
N26-824-849	15	20	DFT-16QAM	H	Inner_1RB_Left	23.35	18.90	38.45	PASS
N26-824-849	15	20	DFT-16QAM	H	Inner_1RB_Right	23.47	19.02	38.45	PASS
N26-824-849	15	20	DFT-16QAM	H	Outer_Full	22.39	17.94	38.45	PASS
N26-824-849	15	20	DFT-64QAM	H	Inner_1RB_Left	21.66	17.21	38.45	PASS
N26-824-849	15	20	DFT-64QAM	H	Inner_1RB_Right	21.65	17.20	38.45	PASS
N26-824-849	15	20	DFT-64QAM	H	Outer_Full	22.00	17.55	38.45	PASS
N26-824-849	15	20	DFT-256QAM	H	Inner_1RB_Left	19.91	15.46	38.45	PASS
N26-824-849	15	20	DFT-256QAM	H	Inner_1RB_Right	20.02	15.57	38.45	PASS
N26-824-849	15	20	DFT-256QAM	H	Outer_Full	19.96	15.51	38.45	PASS



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Report No.: SEWM2308000314RG02
Rev.: 01
Page: 4 of 31

Peak-to-Average Ratio for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N26-824-849	15	20	DFT-256QAM	L	Outer_Full	8.87	≤13	PASS
N26-824-849	15	20	CP-256QAM	L	Outer_Full	9.73	≤13	PASS
N26-824-849	15	20	DFT-256QAM	M	Outer_Full	8.90	≤13	PASS
N26-824-849	15	20	CP-256QAM	M	Outer_Full	9.71	≤13	PASS
N26-824-849	15	20	DFT-256QAM	H	Outer_Full	9.00	≤13	PASS
N26-824-849	15	20	CP-256QAM	H	Outer_Full	9.81	≤13	PASS



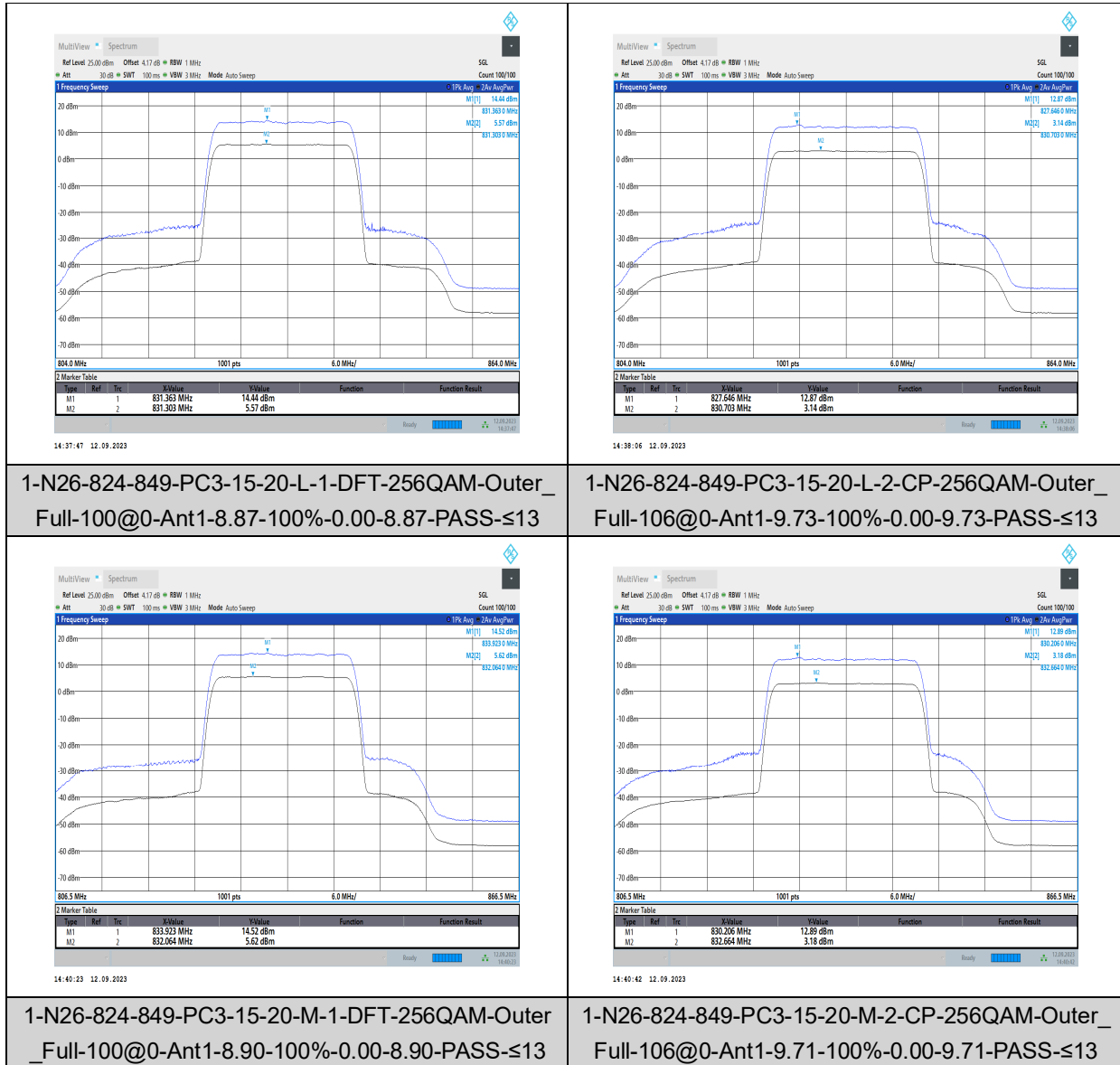
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Report No.: SEWM2308000314RG02
Rev.: 01
Page: 5 of 31

Test Graphs

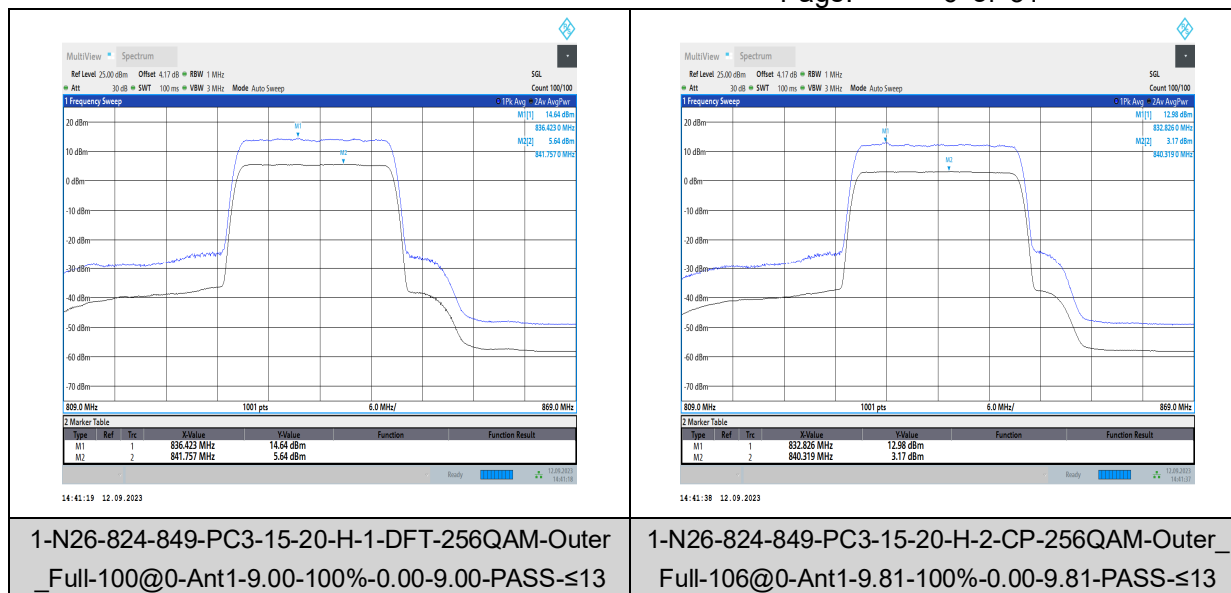


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Rev.: 01
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Report No.: SEWM2308000314RG02
 Rev.: 01
 Page: 7 of 31

26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N26-824-849	15	5	DFT-QPSK	M	Outer_Full	4.471	4.800	PASS
N26-824-849	15	5	DFT-PI2BPSK	M	Outer_Full	4.476	4.830	PASS
N26-824-849	15	5	DFT-16QAM	M	Outer_Full	4.474	4.790	PASS
N26-824-849	15	5	DFT-64QAM	M	Outer_Full	4.459	4.780	PASS
N26-824-849	15	5	DFT-256QAM	M	Outer_Full	4.472	4.830	PASS
N26-824-849	15	5	CP-QPSK	M	Outer_Full	4.477	4.880	PASS
N26-824-849	15	5	CP-16QAM	M	Outer_Full	4.466	4.800	PASS
N26-824-849	15	5	CP-64QAM	M	Outer_Full	4.478	5.580	PASS
N26-824-849	15	5	CP-256QAM	M	Outer_Full	4.474	4.810	PASS
N26-824-849	15	10	DFT-QPSK	M	Outer_Full	8.931	9.400	PASS
N26-824-849	15	10	DFT-PI2BPSK	M	Outer_Full	8.919	9.340	PASS
N26-824-849	15	10	DFT-16QAM	M	Outer_Full	8.922	9.340	PASS
N26-824-849	15	10	DFT-64QAM	M	Outer_Full	8.915	9.400	PASS
N26-824-849	15	10	DFT-256QAM	M	Outer_Full	8.908	9.400	PASS
N26-824-849	15	10	CP-QPSK	M	Outer_Full	9.301	9.760	PASS
N26-824-849	15	10	CP-16QAM	M	Outer_Full	9.297	9.720	PASS
N26-824-849	15	10	CP-64QAM	M	Outer_Full	9.281	9.760	PASS
N26-824-849	15	10	CP-256QAM	M	Outer_Full	9.268	9.820	PASS
N26-824-849	15	15	DFT-QPSK	M	Outer_Full	13.416	14.100	PASS
N26-824-849	15	15	DFT-PI2BPSK	M	Outer_Full	13.442	14.190	PASS
N26-824-849	15	15	DFT-16QAM	M	Outer_Full	13.45	14.070	PASS
N26-824-849	15	15	DFT-64QAM	M	Outer_Full	13.424	14.070	PASS
N26-824-849	15	15	DFT-256QAM	M	Outer_Full	13.405	14.100	PASS
N26-824-849	15	15	CP-QPSK	M	Outer_Full	14.117	14.820	PASS
N26-824-849	15	15	CP-16QAM	M	Outer_Full	14.146	14.850	PASS
N26-824-849	15	15	CP-64QAM	M	Outer_Full	14.094	14.700	PASS
N26-824-849	15	15	CP-256QAM	M	Outer_Full	14.103	14.760	PASS
N26-824-849	15	20	DFT-QPSK	M	Outer_Full	17.882	18.680	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	17.862	18.600	PASS
N26-824-849	15	20	DFT-16QAM	M	Outer_Full	17.881	18.600	PASS



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Report No.: SEWM2308000314RG02
Rev.: 01
Page: 8 of 31

N26-824-849	15	20	DFT-64QAM	M	Outer_Full	17.881	18.760	PASS
N26-824-849	15	20	DFT-256QAM	M	Outer_Full	17.883	18.640	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	18.864	19.640	PASS
N26-824-849	15	20	CP-16QAM	M	Outer_Full	18.942	19.680	PASS
N26-824-849	15	20	CP-64QAM	M	Outer_Full	18.955	19.680	PASS
N26-824-849	15	20	CP-256QAM	M	Outer_Full	18.9	19.680	PASS

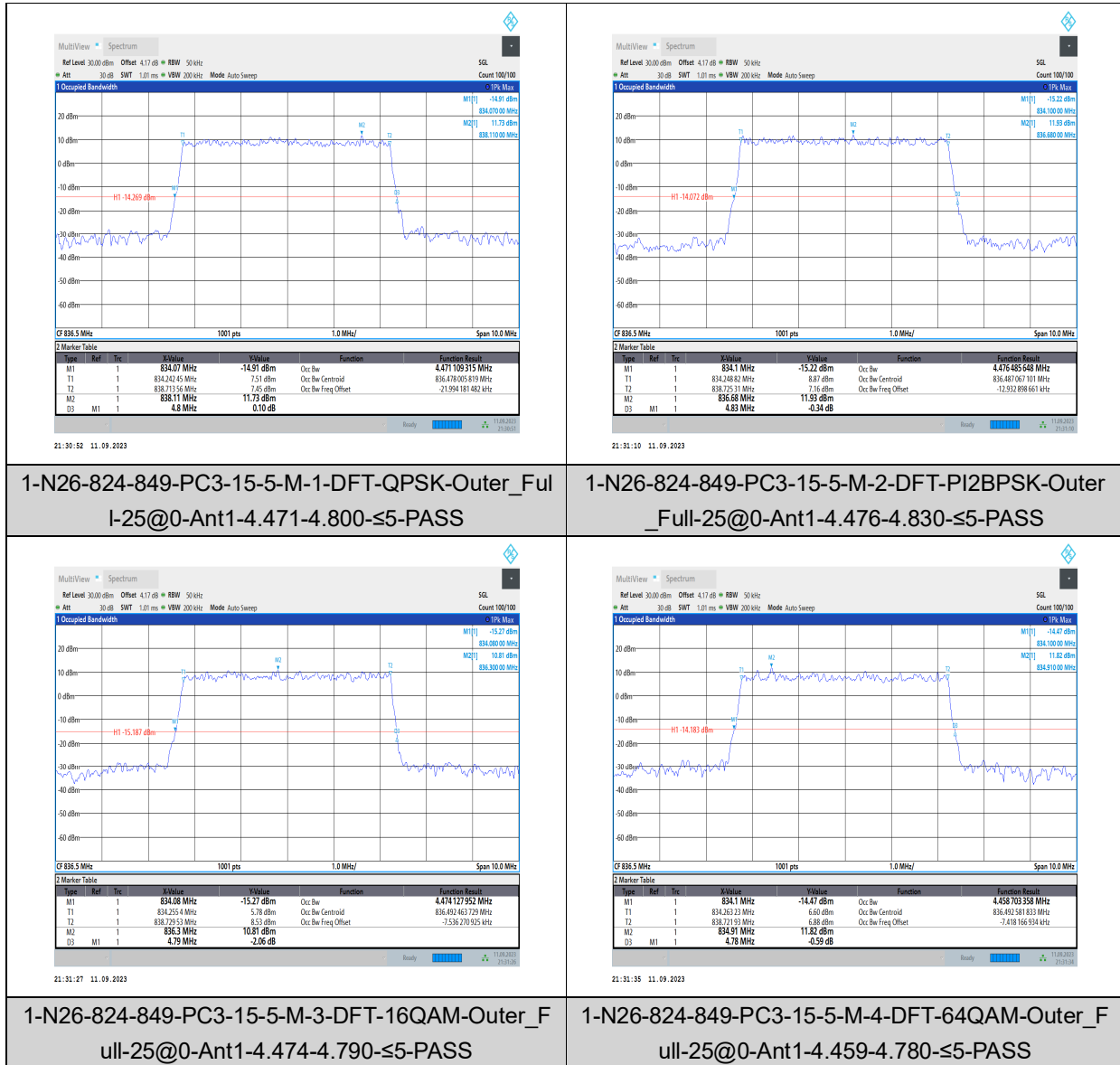


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Report No.: SEWM2308000314RG02
Rev.: 01
Page: 9 of 31

Test Graphs



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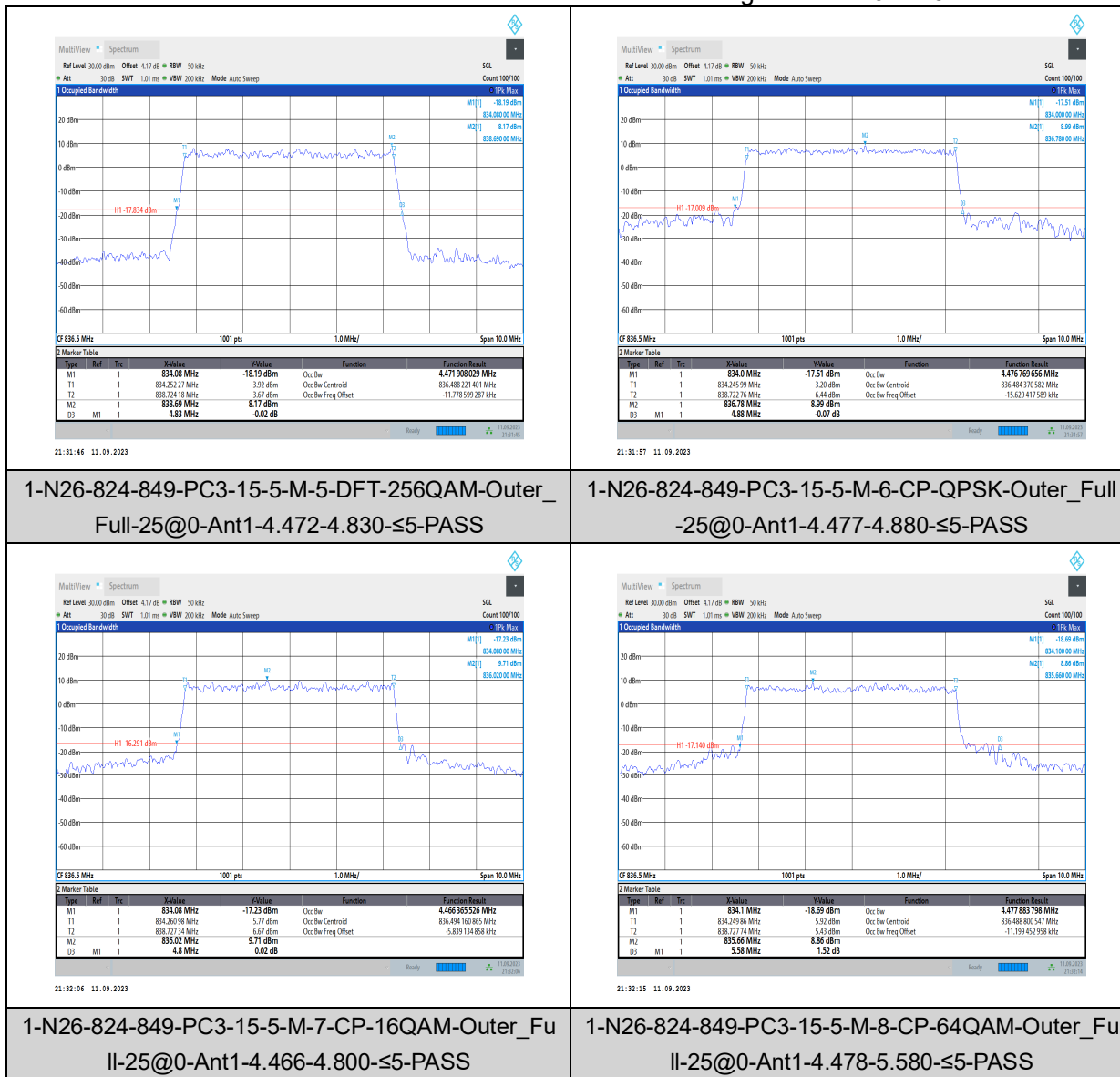
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Report No.: SEWM2308000314RG02

Rev.: 01

Page: 10 of 31



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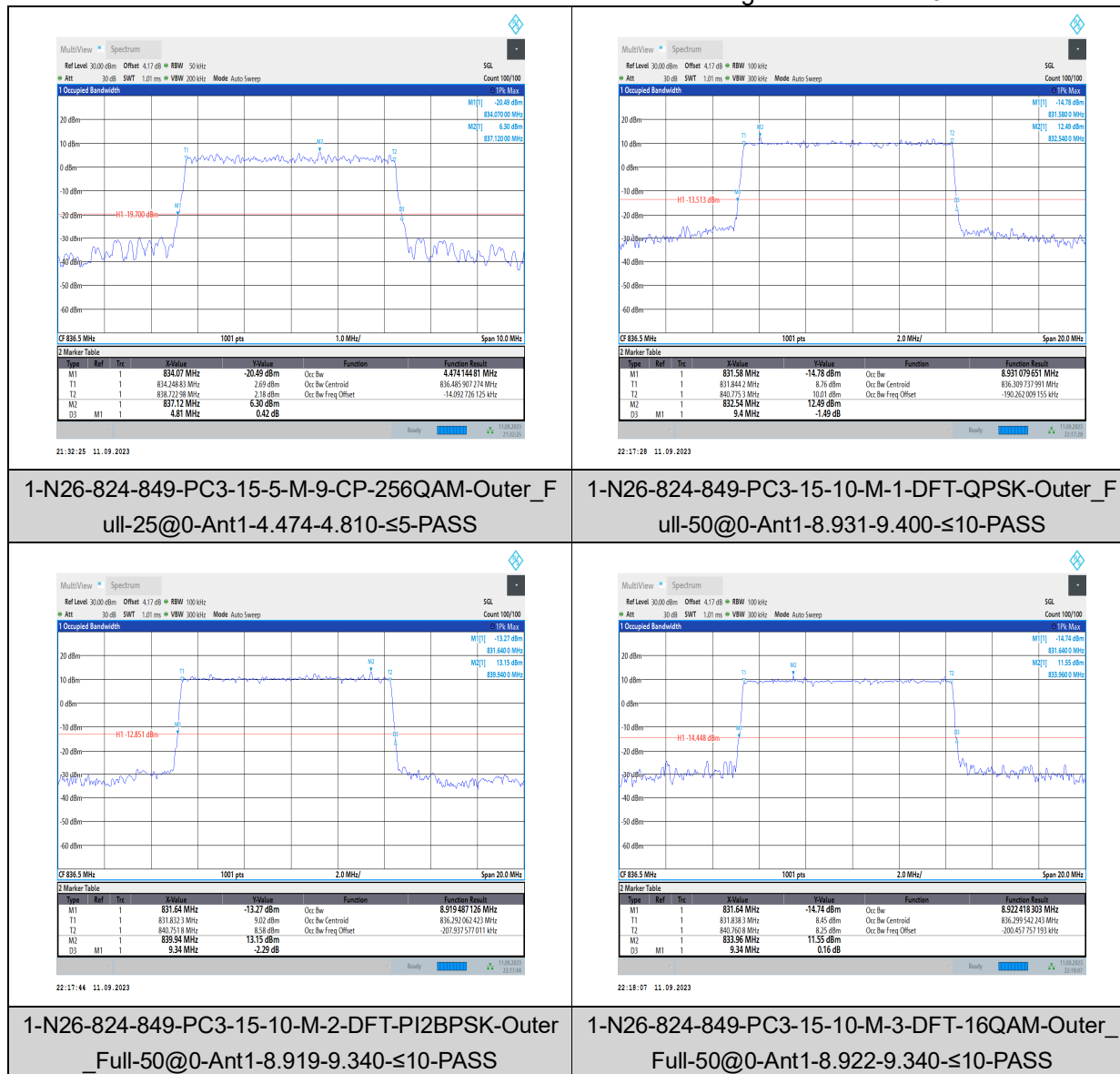
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Rev.: 01

Page: 11 of 31



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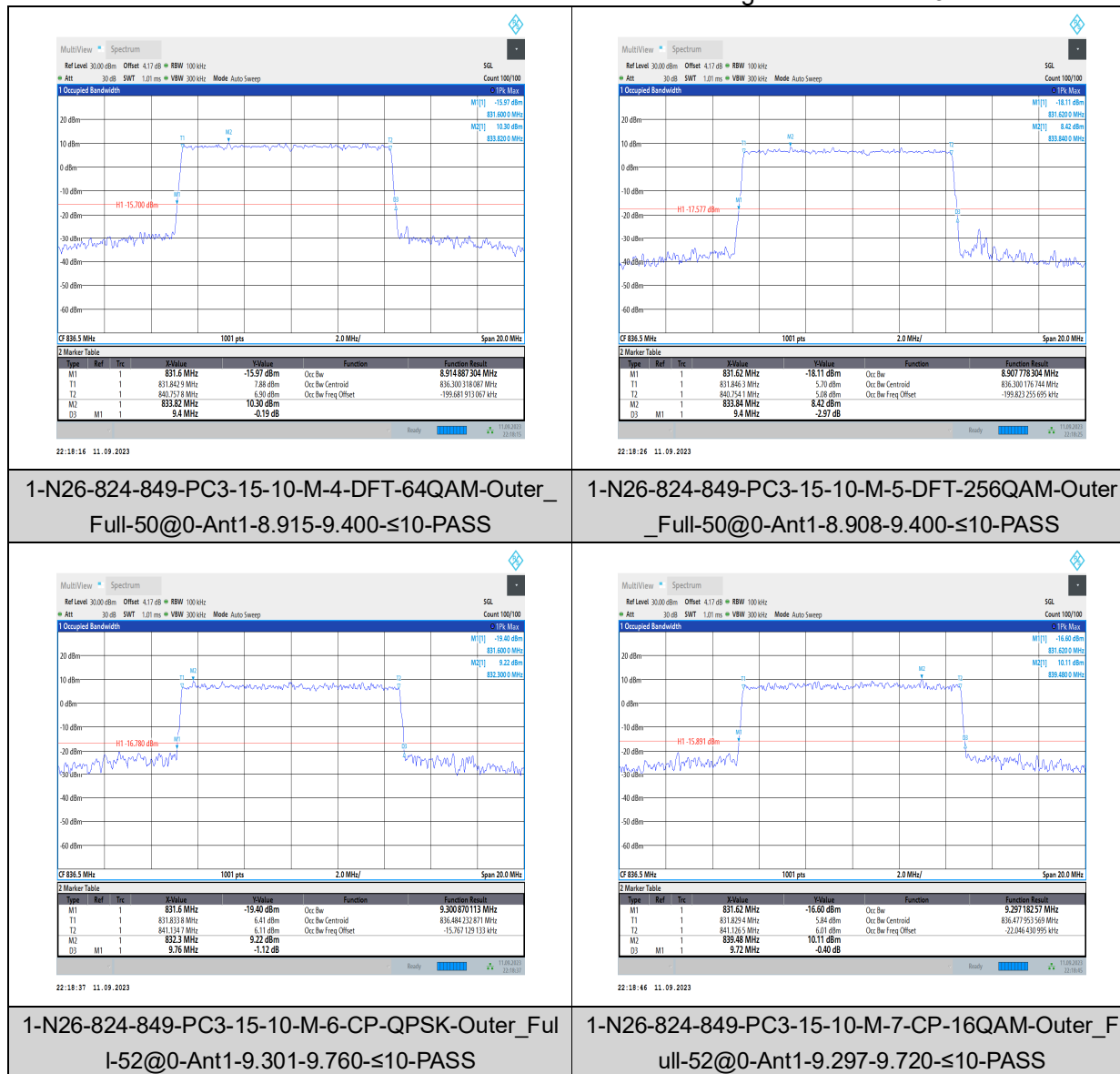
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Rev.: 01

Page: 12 of 31



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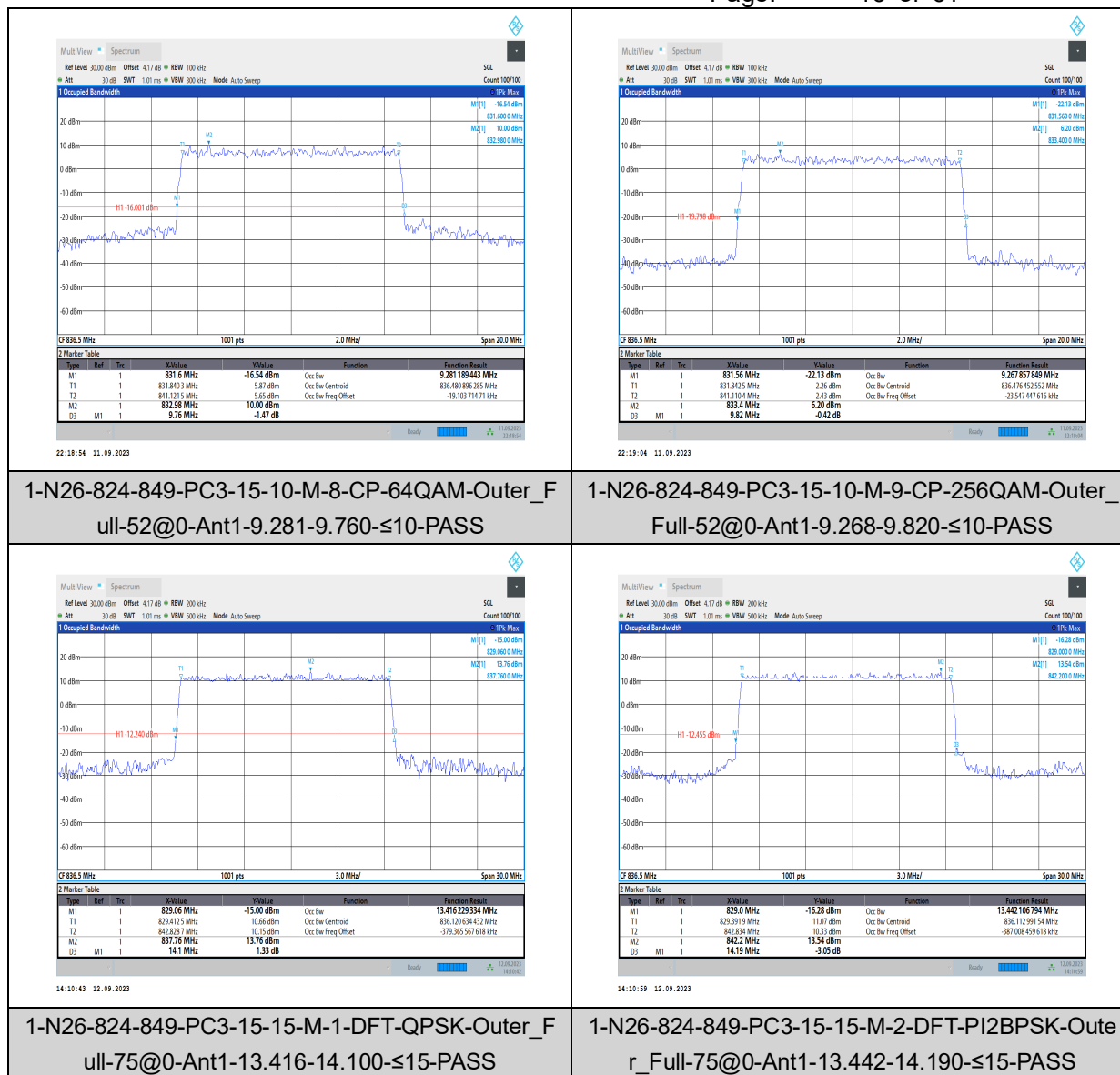
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Rev.: 01
Page: 13 of 31



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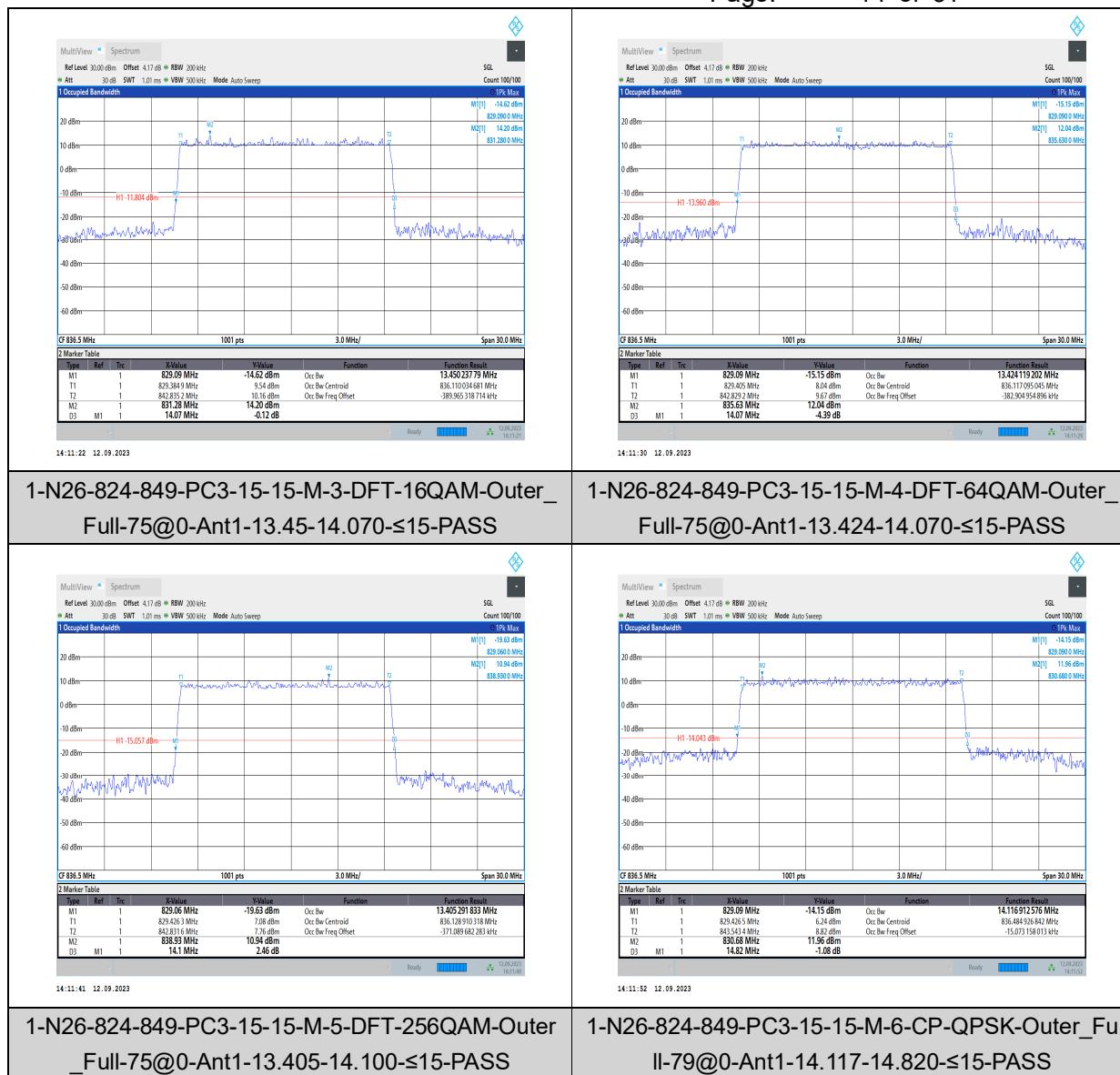
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Page: 14 of 31



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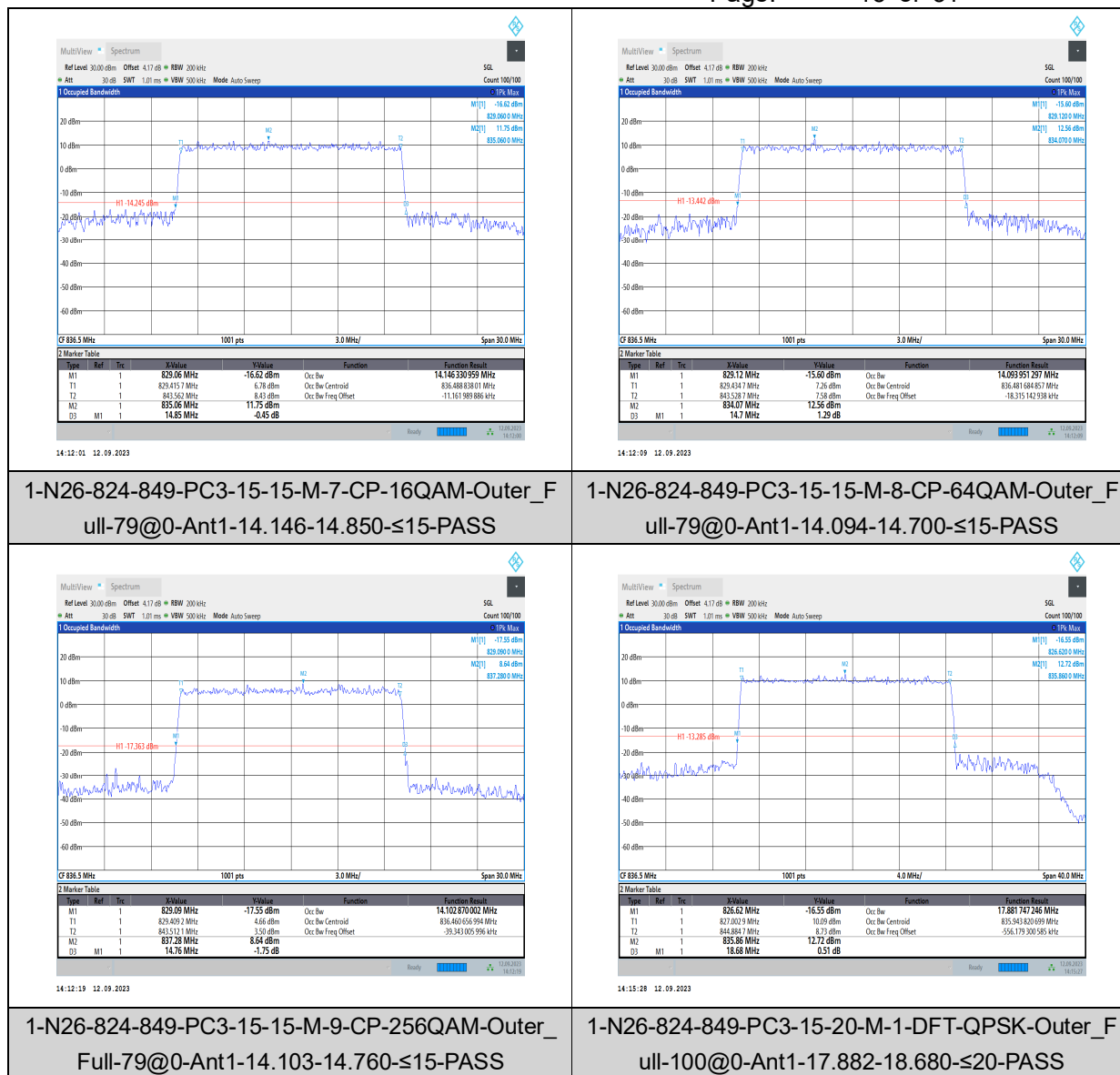
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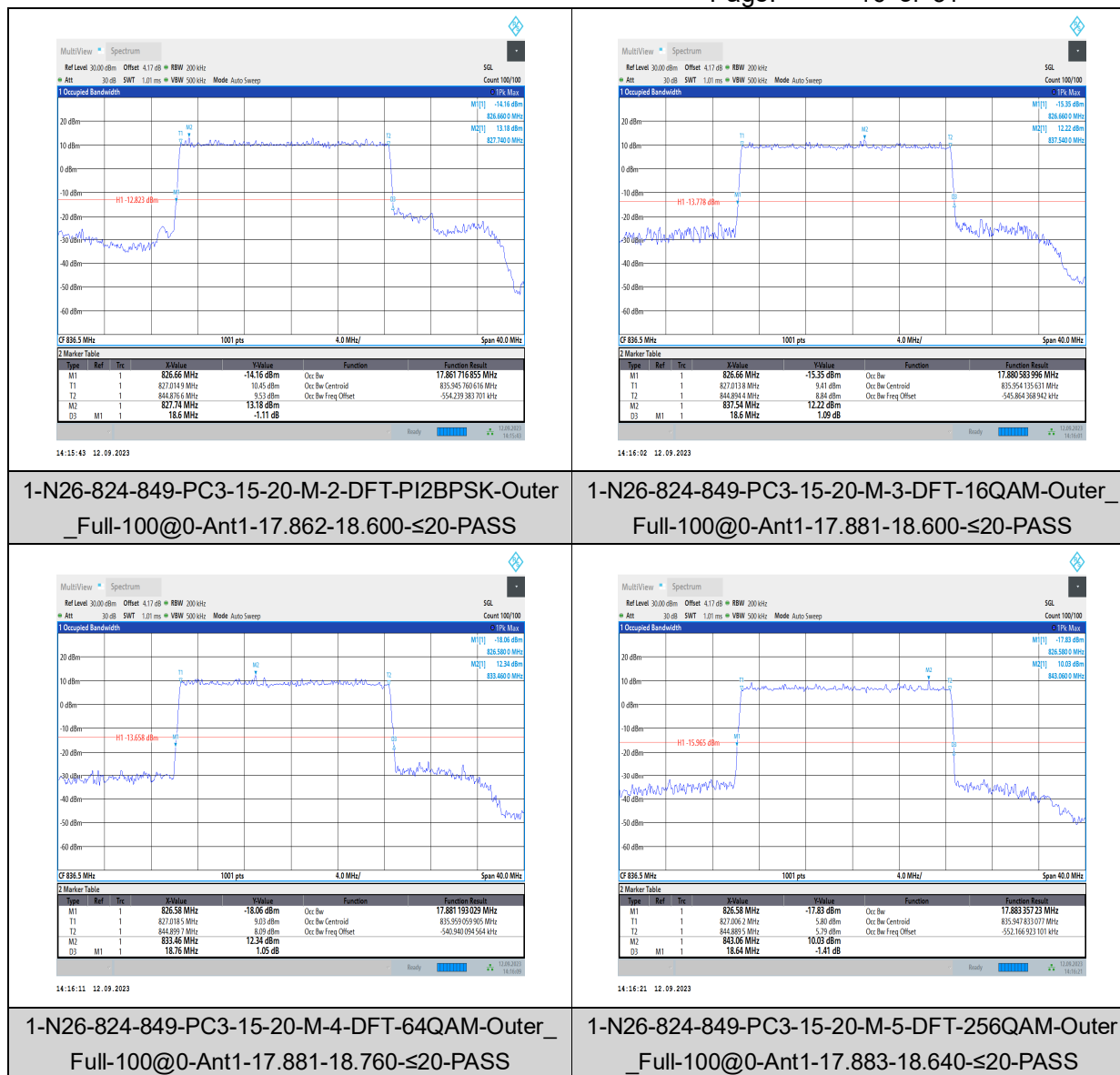
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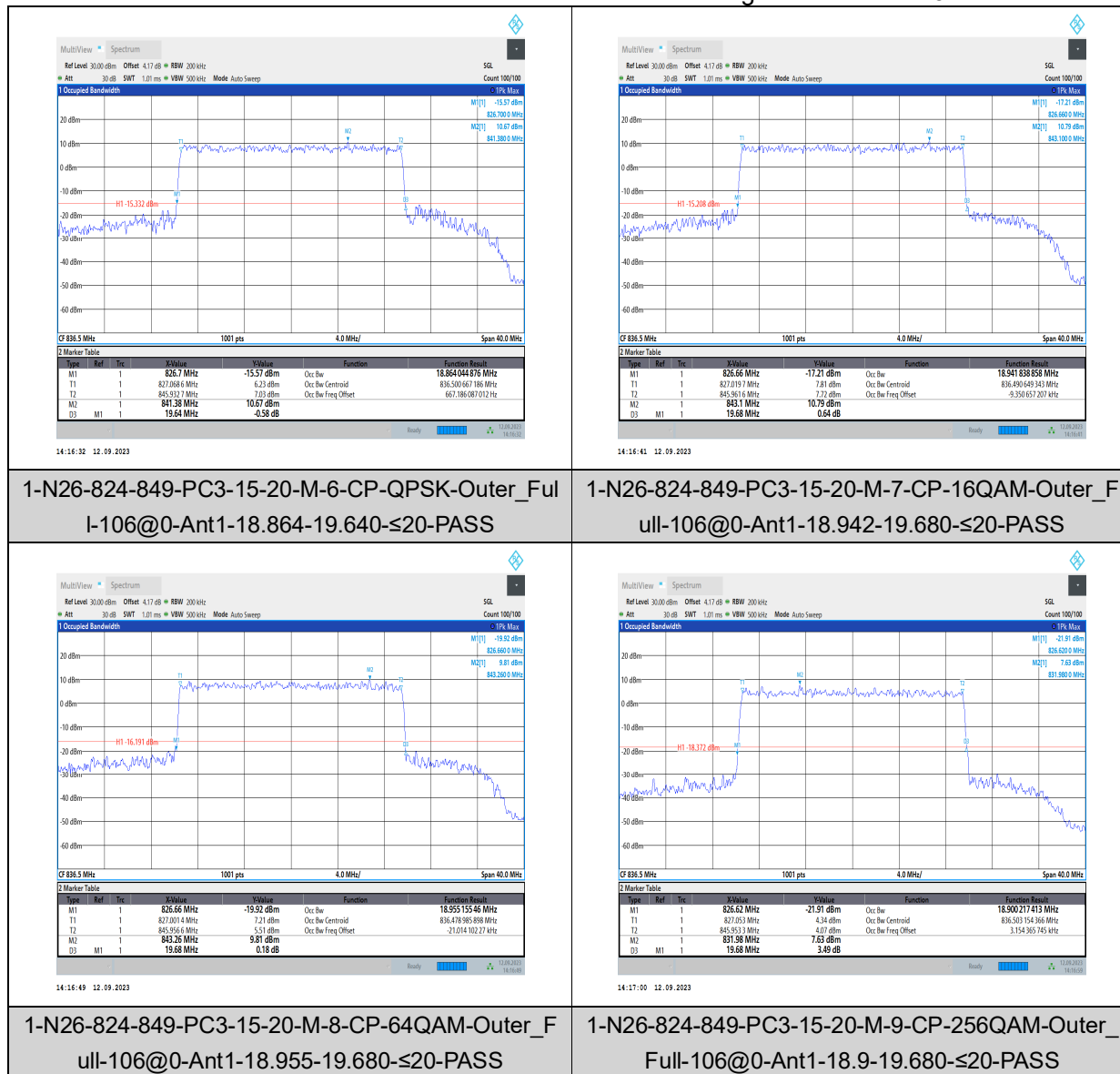
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Rev.: 01
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Band Edge for SA

Test Graphs



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Rev.: 01

Page: 20 of 31



1-N26-824-849-PC3-15-20-L-1-DFT-PI2BPSK-Edge_1
RB_Left-1@0-Ant1-1-seegraph-PASS-see graph

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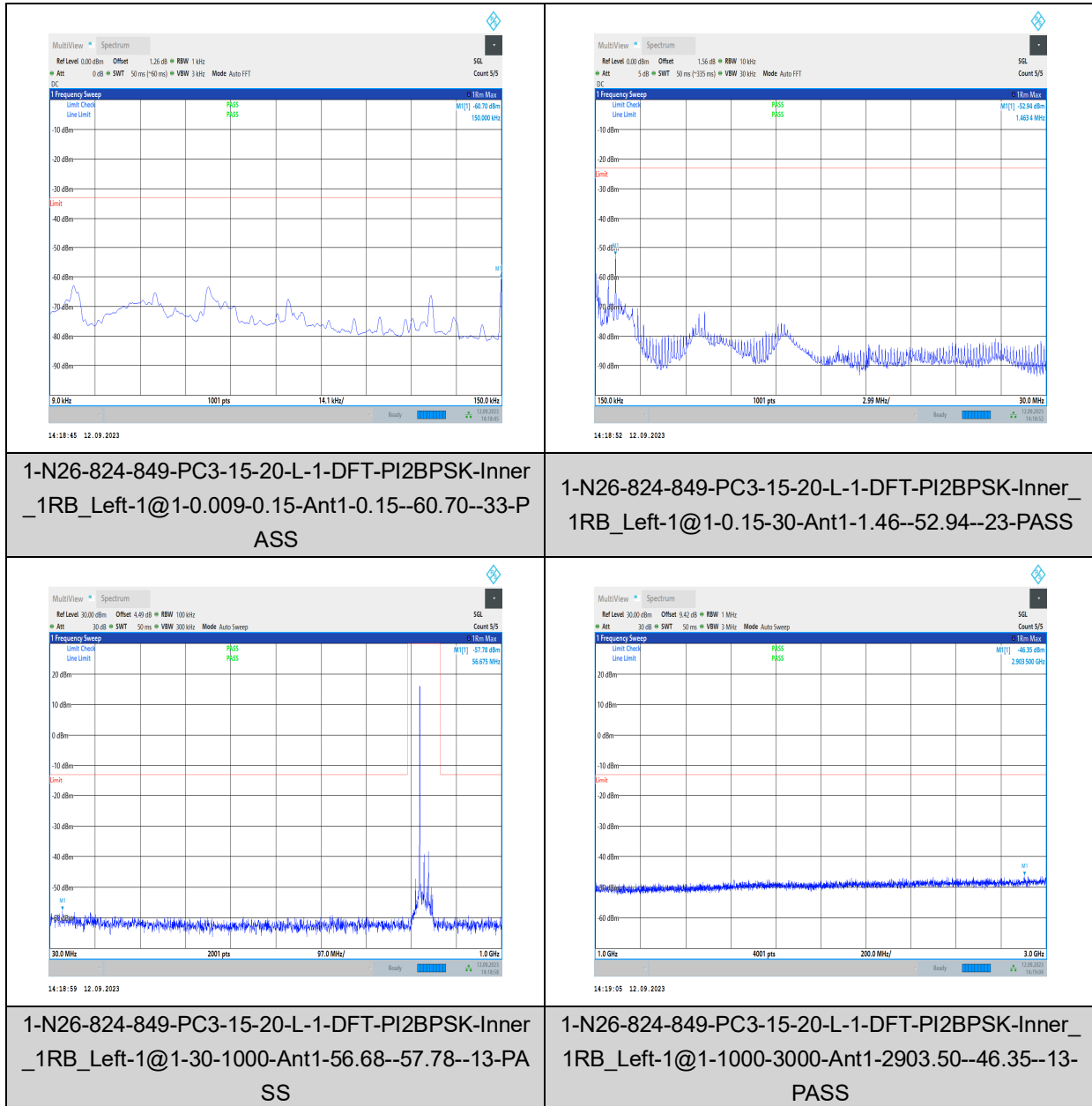
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Report No.: SEWM2308000314RG02
Rev.: 01
Page: 22 of 31

Conducted Spurious Emission for SA

Test Graphs



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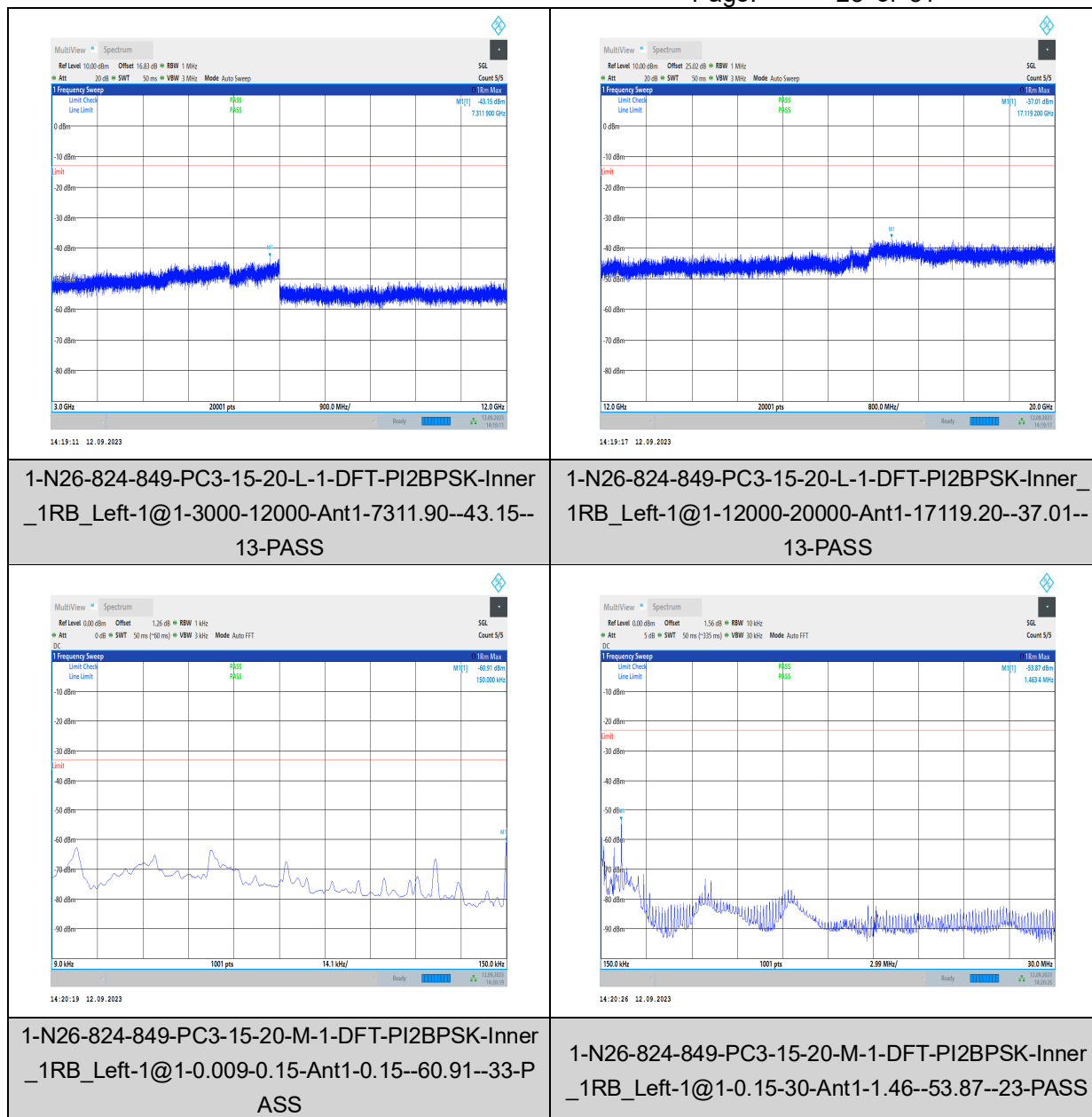
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Report No.: SEWM2308000314RG02

Rev.: 01

Page: 23 of 31



SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
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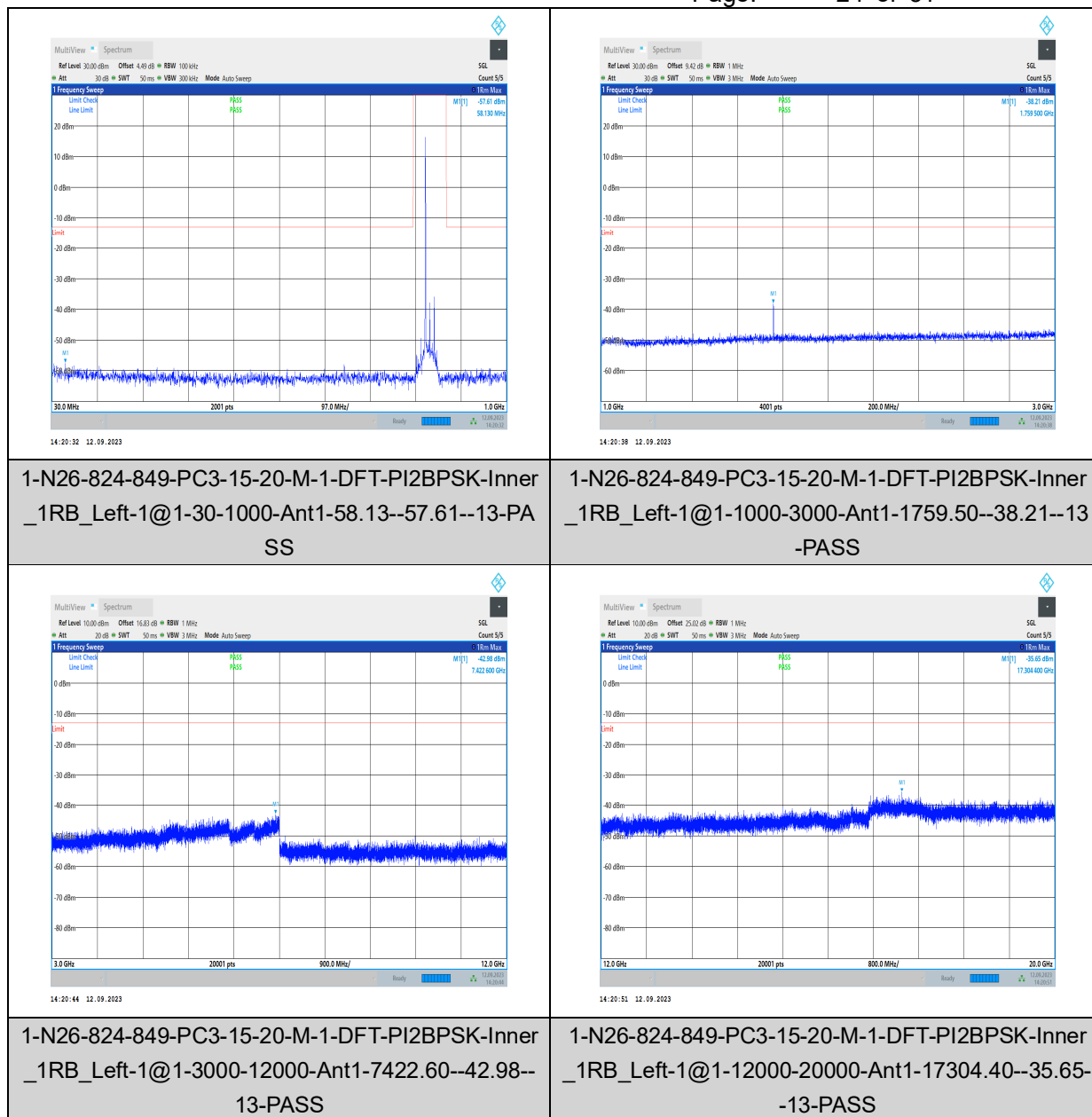
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Report No.: SEWM2308000314RG02

Rev.: 01

Page: 24 of 31



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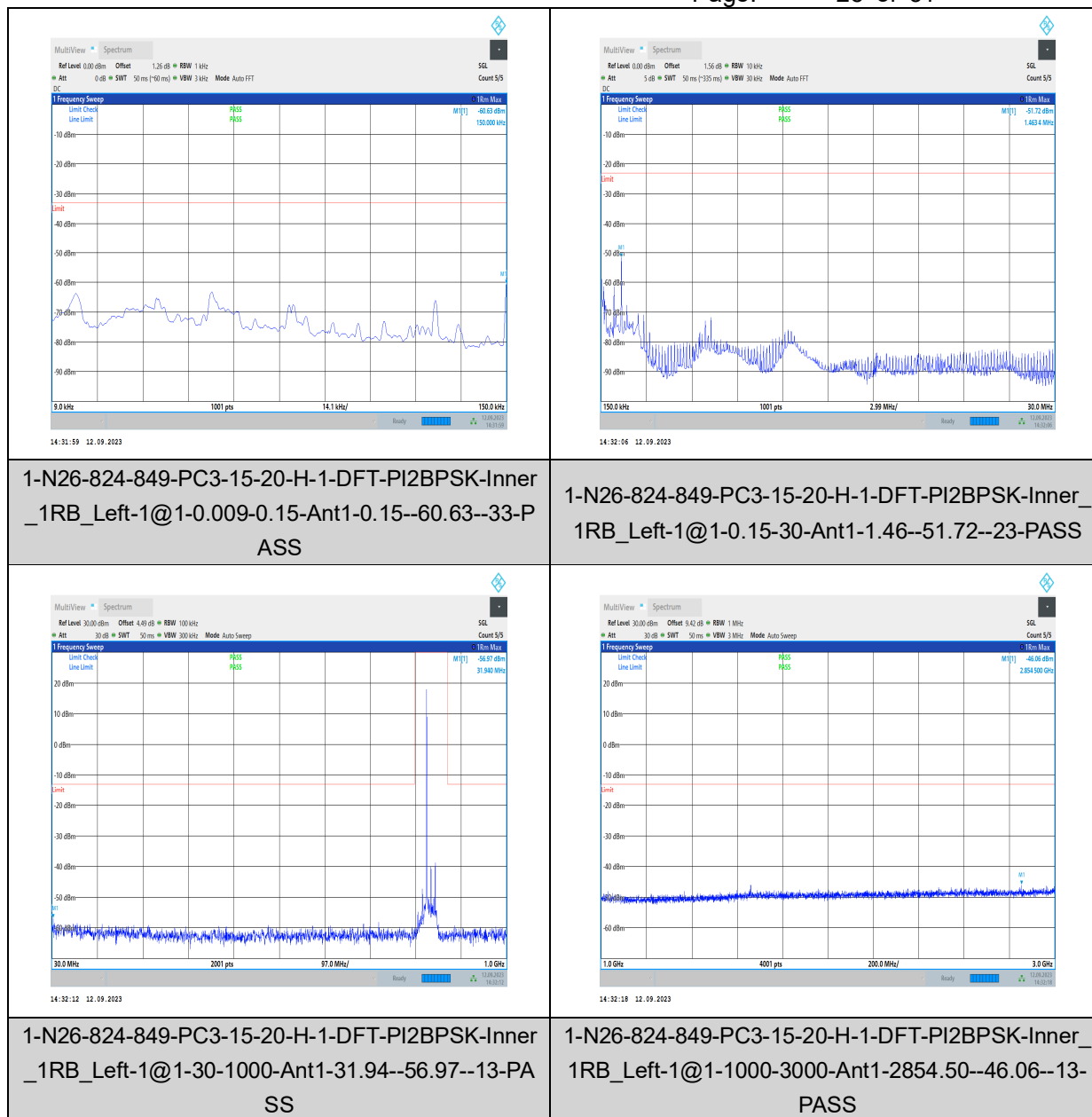
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Rev.: 01

Page: 25 of 31



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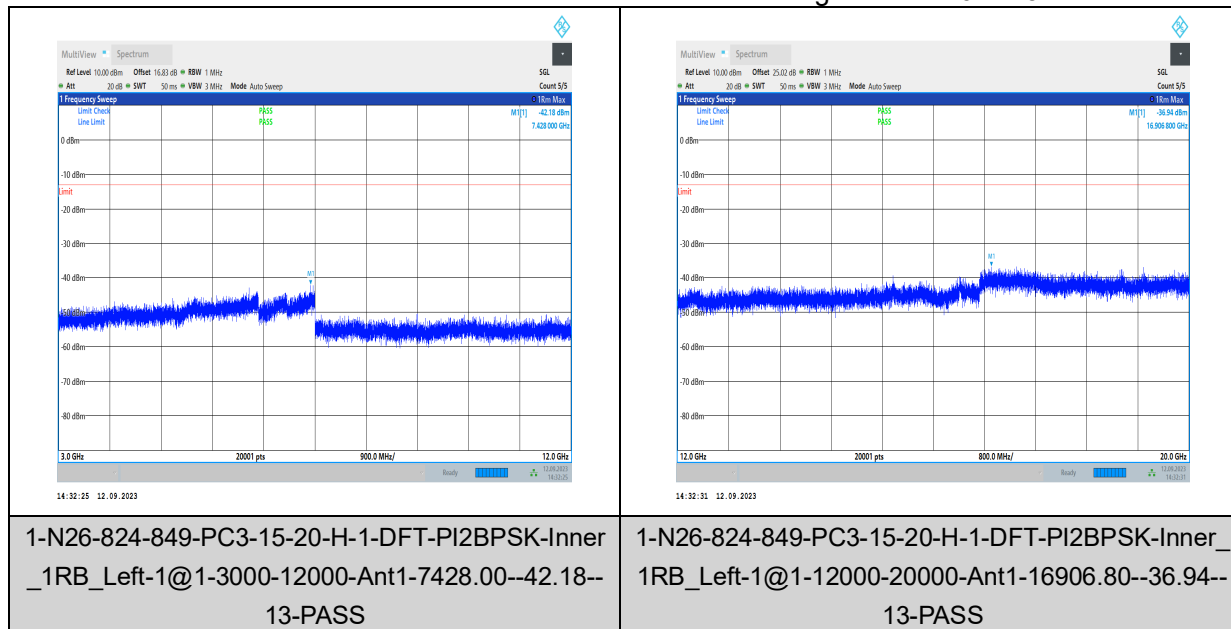
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Report No.: SEWM2308000314RG02

Rev.: 01

Page: 26 of 31



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Report No.: SEWM2308000314RG02
 Rev.: 01
 Page: 27 of 31

Field Strength of Spurious Radiation

Test Band = SA Band 26_ 15MHz_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	1629.68	45.53	-49.87	25.22	-74.38	-13.00	61.38	Horizontal
2	2444.52	45.03	-49.22	27.23	-72.22	-13.00	59.22	Horizontal
3	3259.36	44.62	-48.63	28.60	-70.66	-13.00	57.66	Horizontal
4	4074.2	43.74	-48.28	29.53	-70.27	-13.00	57.27	Horizontal
5	4889.04	43.56	-48.15	31.23	-68.62	-13.00	55.62	Horizontal
6	5703.88	43.42	-47.51	32.74	-66.61	-13.00	53.61	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1629.68	46.34	-49.87	25.22	-73.57	-13.00	60.57	Vertical
2	2444.52	44.80	-49.22	27.23	-72.45	-13.00	59.45	Vertical
3	3259.36	44.32	-48.63	28.60	-70.96	-13.00	57.96	Vertical
4	4074.2	43.90	-48.28	29.53	-70.11	-13.00	57.11	Vertical
5	4889.04	43.68	-48.15	31.23	-68.50	-13.00	55.50	Vertical
6	5703.88	43.35	-47.51	32.74	-66.68	-13.00	53.68	Vertical



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Report No.: SEWM2308000314RG02
 Rev.: 01
 Page: 28 of 31

Test Band = SA Band 26_ 15MHz_ 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	1659.5556	61.19	-49.80	25.34	-58.54	-13.00	45.54	Horizontal
2	2489.52	46.90	-48.96	27.29	-70.03	-13.00	57.03	Horizontal
3	3319.36	45.59	-48.64	28.63	-69.68	-13.00	56.68	Horizontal
4	4149.2	44.35	-48.31	29.67	-69.55	-13.00	56.55	Horizontal
5	4979.04	43.40	-48.00	31.45	-68.41	-13.00	55.41	Horizontal
6	5805.88	43.73	-47.68	32.76	-66.45	-13.00	53.45	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1659.5556	60.62	-49.80	25.34	-59.11	-13.00	46.11	Vertical
2	2489.52	46.42	-48.96	27.29	-70.51	-13.00	57.51	Vertical
3	3319.36	45.71	-48.64	28.63	-69.56	-13.00	56.56	Vertical
4	4149.2	44.39	-48.31	29.67	-69.51	-13.00	56.51	Vertical
5	4979.04	43.60	-48.00	31.45	-68.21	-13.00	55.21	Vertical
6	5805.88	43.54	-47.68	32.76	-66.64	-13.00	53.64	Vertical



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Report No.: SEWM2308000314RG02

Rev.: 01

Page: 29 of 31

Test Band = SA Band 26_ 15MHz_ 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	1669.68	61.54	-49.78	25.38	-58.12	-13.00	45.12	Horizontal
2	2504.52	44.99	-48.91	27.31	-71.87	-13.00	58.87	Horizontal
3	3339.36	45.71	-48.65	28.64	-69.57	-13.00	56.57	Horizontal
4	4174.2	43.99	-48.33	29.71	-69.89	-13.00	56.89	Horizontal
5	5009.04	43.83	-47.96	31.52	-67.86	-13.00	54.86	Horizontal
6	5843.88	43.71	-47.41	32.77	-66.19	-13.00	53.19	Horizontal

Final Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	1669.68	62.43	-49.78	25.38	-57.23	-13.00	44.23	Vertical
2	2504.52	45.90	-48.91	27.31	-70.96	-13.00	57.96	Vertical
3	3339.36	46.47	-48.65	28.64	-68.81	-13.00	55.81	Vertical
4	4174.2	44.81	-48.33	29.71	-69.07	-13.00	56.07	Vertical
5	5009.04	43.63	-47.96	31.52	-68.06	-13.00	55.06	Vertical
6	5843.88	43.67	-47.41	32.77	-66.23	-13.00	53.23	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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Report No.: SEWM2308000314RG02
Rev.: 01
Page: 30 of 31

Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage											
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Limit	Verdict
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-36.000000	-0.043036	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-32.400000	-0.038733	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-2.200000	-0.002630	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	VH	NT	-10.800000	-0.012911	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	VN	NT	-11.600000	-0.013867	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	VL	NT	-14.300000	-0.017095	±2.5	PASS



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Report No.: SEWM2308000314RG02
 Rev.: 01
 Page: 31 of 31

Frequency Error VS. Temperature

Temperature											
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Limit	Verdict
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-31.500000	-0.037657	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-39.100000	-0.046742	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-35.700000	-0.042678	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-46.400000	-0.055469	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-33.500000	-0.040048	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	11.300000	0.013509	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-28.800000	-0.034429	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-21.700000	-0.025941	±2.5	PASS
N26-824-849	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-27.600000	-0.032995	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	-30	-5.600000	-0.006695	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	-20	-10.300000	-0.012313	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	-10	1.800000	0.002152	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	0	-6.200000	-0.007412	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	10	-7.200000	-0.008607	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	20	-8.100000	-0.009683	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	30	-9.000000	-0.010759	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	40	-2.100000	-0.002510	±2.5	PASS
N26-824-849	15	20	CP-QPSK	M	Outer_Full	NV	50	-9.900000	-0.011835	±2.5	PASS

---End of Attachment---



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Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

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