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Appendix B.16

NR Band n2



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Effective (Isotropic) Radiated Power Output Data for SA

Test Result

ANT2

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit	Verdict
N2	15	5	DFT-QPSK	L	Inner_1RB_Left	23.44	24.44	33.00	PASS
N2	15	5	DFT-16QAM	L	Inner_1RB_Left	22.68	23.68	33.00	PASS
N2	15	5	DFT-QPSK	M	Inner_1RB_Left	23.63	24.63	33.00	PASS
N2	15	5	DFT-16QAM	M	Inner_1RB_Left	22.78	23.78	33.00	PASS
N2	15	5	DFT-QPSK	H	Inner_1RB_Left	23.46	24.46	33.00	PASS
N2	15	5	DFT-16QAM	H	Inner_1RB_Left	22.65	23.65	33.00	PASS
N2	15	10	DFT-QPSK	L	Inner_1RB_Left	23.45	24.45	33.00	PASS
N2	15	10	DFT-16QAM	L	Inner_1RB_Left	22.76	23.76	33.00	PASS
N2	15	10	DFT-QPSK	M	Inner_1RB_Left	23.58	24.58	33.00	PASS
N2	15	10	DFT-16QAM	M	Inner_1RB_Left	22.8	23.8	33.00	PASS
N2	15	10	DFT-QPSK	H	Inner_1RB_Left	23.69	24.69	33.00	PASS
N2	15	10	DFT-16QAM	H	Inner_1RB_Left	22.77	23.77	33.00	PASS
N2	15	10	DFT-16QAM	H	Inner_1RB_Right	22.79	23.79	33.00	PASS
N2	15	15	DFT-QPSK	L	Inner_1RB_Left	23.42	24.42	33.00	PASS
N2	15	15	DFT-16QAM	L	Inner_1RB_Left	22.69	23.69	33.00	PASS
N2	15	15	DFT-QPSK	M	Inner_1RB_Left	23.21	24.21	33.00	PASS
N2	15	15	DFT-16QAM	M	Inner_1RB_Left	22.44	23.44	33.00	PASS
N2	15	15	DFT-QPSK	H	Inner_1RB_Left	23.43	24.43	33.00	PASS
N2	15	15	DFT-16QAM	H	Inner_1RB_Left	22.6	23.6	33.00	PASS
N2	15	20	DFT-PI2BPSK	L	Inner_1RB_Left	23.54	24.54	33.00	PASS
N2	15	20	DFT-PI2BPSK	L	Inner_1RB_Right	23.57	24.57	33.00	PASS
N2	15	20	DFT-PI2BPSK	L	Outer_Full	23.2	24.2	33.00	PASS
N2	15	20	DFT-QPSK	L	Inner_1RB_Left	23.81	24.81	33.00	PASS
N2	15	20	DFT-QPSK	L	Inner_1RB_Right	24.07	25.07	33.00	PASS
N2	15	20	DFT-QPSK	L	Outer_Full	22.78	23.78	33.00	PASS
N2	15	20	DFT-16QAM	L	Inner_1RB_Left	23.01	24.01	33.00	PASS
N2	15	20	DFT-16QAM	L	Inner_1RB_Right	23.05	24.05	33.00	PASS
N2	15	20	DFT-16QAM	L	Outer_Full	21.76	22.76	33.00	PASS
N2	15	20	DFT-64QAM	L	Inner_1RB_Left	21.26	22.26	33.00	PASS



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Table with 10 columns: N2, 15, 20, Modulation (DFT-64QAM, DFT-256QAM, DFT-PI2BPSK, DFT-QPSK), M, Inner/Outer, Values, and PASS. Contains 40 rows of test data.



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Peak-to-Average Ratio for SA

Test Result

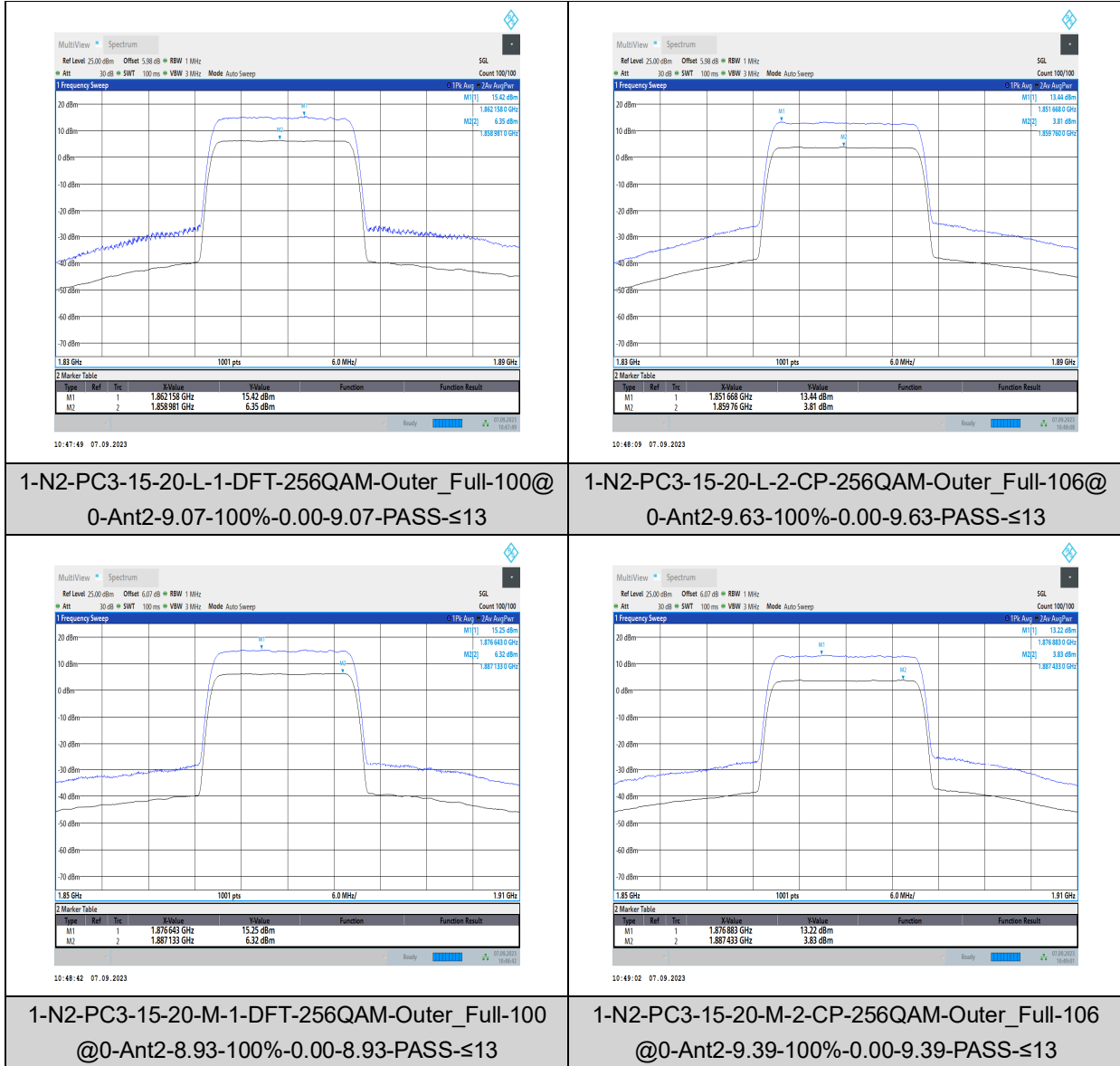
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N2	15	20	DFT-256QAM	L	Outer_Full	9.07	≤13	PASS
N2	15	20	CP-256QAM	L	Outer_Full	9.63	≤13	PASS
N2	15	20	DFT-256QAM	M	Outer_Full	8.93	≤13	PASS
N2	15	20	CP-256QAM	M	Outer_Full	9.39	≤13	PASS
N2	15	20	DFT-256QAM	H	Outer_Full	8.89	≤13	PASS
N2	15	20	CP-256QAM	H	Outer_Full	9.45	≤13	PASS



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Test Graphs



1-N2-PC3-15-20-L-1-DFT-256QAM-Outer_Full-100@
0-Ant2-9.07-100%-0.00-9.07-PASS-≤13

1-N2-PC3-15-20-L-2-CP-256QAM-Outer_Full-106@
0-Ant2-9.63-100%-0.00-9.63-PASS-≤13

1-N2-PC3-15-20-M-1-DFT-256QAM-Outer_Full-100
@0-Ant2-8.93-100%-0.00-8.93-PASS-≤13

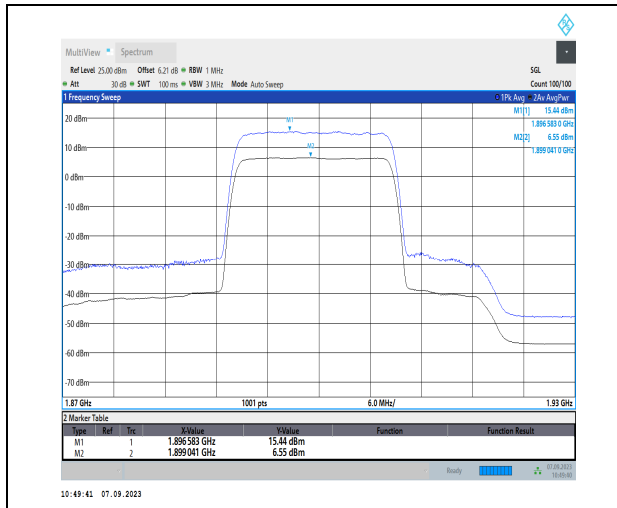
1-N2-PC3-15-20-M-2-CP-256QAM-Outer_Full-106
@0-Ant2-9.39-100%-0.00-9.39-PASS-≤13



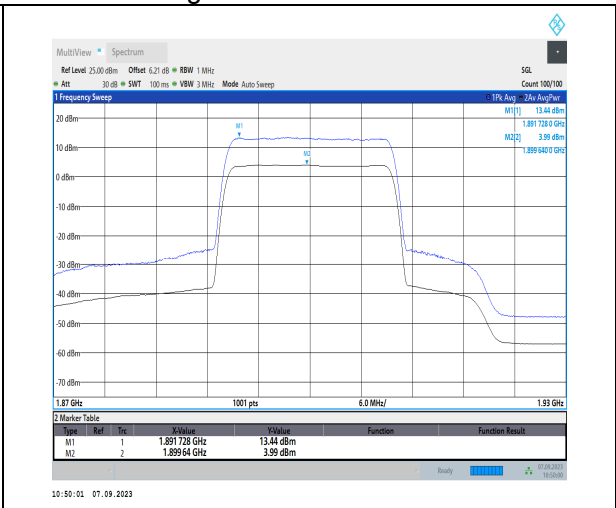
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1-N2-PC3-15-20-H-1-DFT-256QAM-Outer_Full-100
@0-Ant2-8.89-100%-0.00-8.89-PASS-≤13



1-N2-PC3-15-20-H-2-CP-256QAM-Outer_Full-106@
0-Ant2-9.45-100%-0.00-9.45-PASS-≤13



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26dB Bandwidth and Occupied Bandwidth for SA

Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result (99%)	Result (26dB)	Verdict
N2	15	5	DFT-QPSK	M	Outer_Full	4.473	4.800	PASS
N2	15	5	DFT-PI2BPSK	M	Outer_Full	4.475	4.780	PASS
N2	15	5	DFT-16QAM	M	Outer_Full	4.465	4.780	PASS
N2	15	5	DFT-64QAM	M	Outer_Full	4.443	4.800	PASS
N2	15	5	DFT-256QAM	M	Outer_Full	4.477	4.740	PASS
N2	15	5	CP-QPSK	M	Outer_Full	4.476	4.830	PASS
N2	15	5	CP-16QAM	M	Outer_Full	4.49	4.860	PASS
N2	15	5	CP-64QAM	M	Outer_Full	4.467	4.770	PASS
N2	15	5	CP-256QAM	M	Outer_Full	4.469	4.770	PASS
N2	15	10	DFT-QPSK	M	Outer_Full	8.942	9.380	PASS
N2	15	10	DFT-PI2BPSK	M	Outer_Full	8.919	9.380	PASS
N2	15	10	DFT-16QAM	M	Outer_Full	8.921	9.400	PASS
N2	15	10	DFT-64QAM	M	Outer_Full	8.916	9.400	PASS
N2	15	10	DFT-256QAM	M	Outer_Full	8.92	9.340	PASS
N2	15	10	CP-QPSK	M	Outer_Full	9.271	9.840	PASS
N2	15	10	CP-16QAM	M	Outer_Full	9.295	9.760	PASS
N2	15	10	CP-64QAM	M	Outer_Full	9.282	9.780	PASS
N2	15	10	CP-256QAM	M	Outer_Full	9.282	9.760	PASS
N2	15	15	DFT-QPSK	M	Outer_Full	13.429	14.160	PASS
N2	15	15	DFT-PI2BPSK	M	Outer_Full	13.414	14.190	PASS
N2	15	15	DFT-16QAM	M	Outer_Full	13.417	14.130	PASS
N2	15	15	DFT-64QAM	M	Outer_Full	13.429	14.100	PASS
N2	15	15	DFT-256QAM	M	Outer_Full	13.427	14.100	PASS
N2	15	15	CP-QPSK	M	Outer_Full	14.151	14.790	PASS
N2	15	15	CP-16QAM	M	Outer_Full	14.145	14.820	PASS
N2	15	15	CP-64QAM	M	Outer_Full	14.115	14.820	PASS
N2	15	15	CP-256QAM	M	Outer_Full	14.143	14.790	PASS
N2	15	20	DFT-QPSK	M	Outer_Full	17.881	18.640	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	17.833	18.640	PASS
N2	15	20	DFT-16QAM	M	Outer_Full	17.854	18.720	PASS



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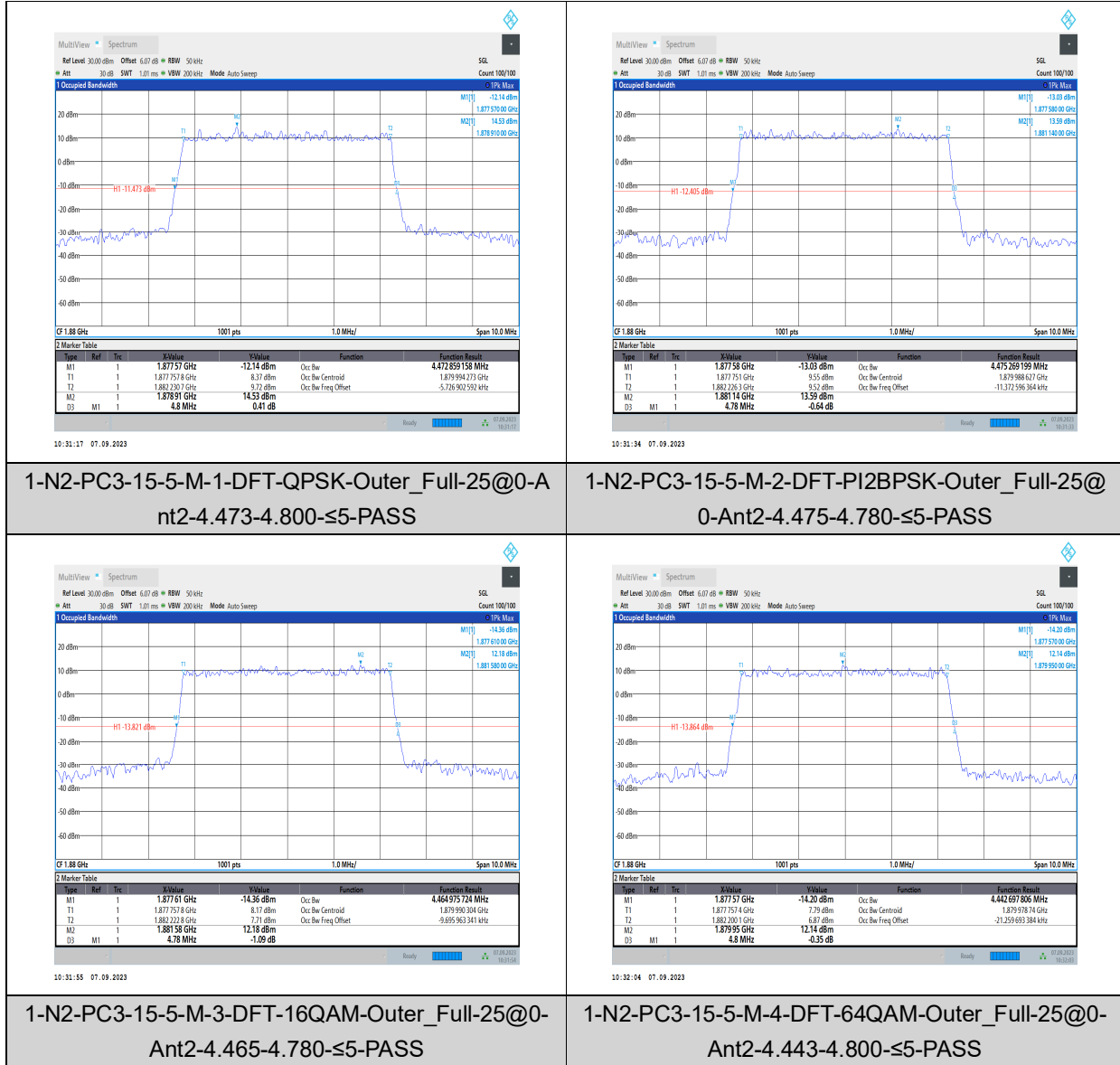
N2	15	20	DFT-64QAM	M	Outer_Full	17.856	18.600	PASS
N2	15	20	DFT-256QAM	M	Outer_Full	17.884	18.640	PASS
N2	15	20	CP-QPSK	M	Outer_Full	18.871	19.760	PASS
N2	15	20	CP-16QAM	M	Outer_Full	18.935	19.760	PASS
N2	15	20	CP-64QAM	M	Outer_Full	18.882	19.640	PASS
N2	15	20	CP-256QAM	M	Outer_Full	18.886	19.600	PASS



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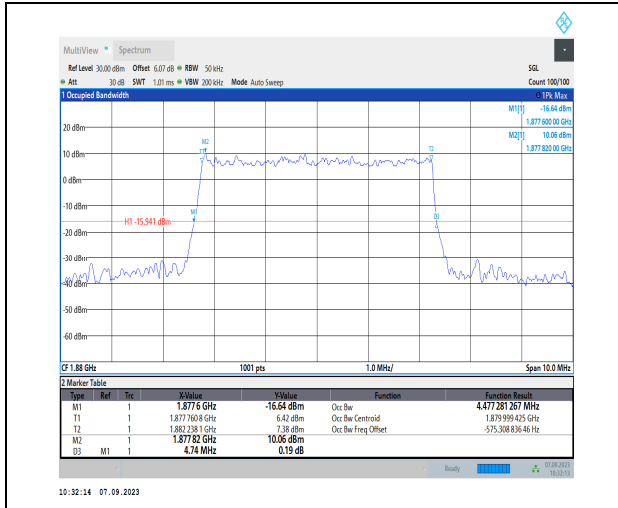
Test Graphs



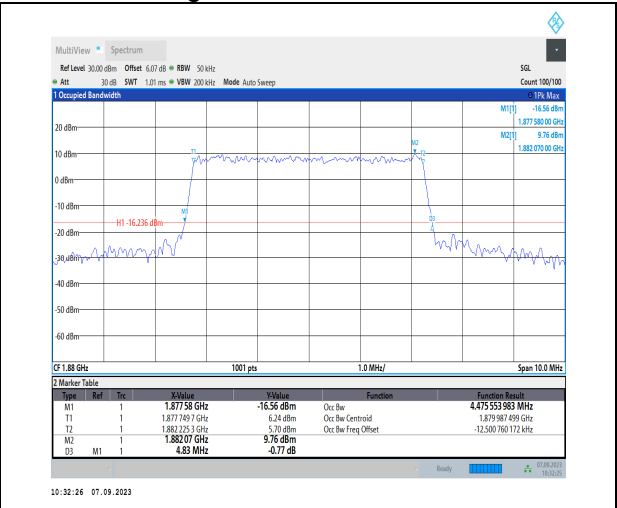
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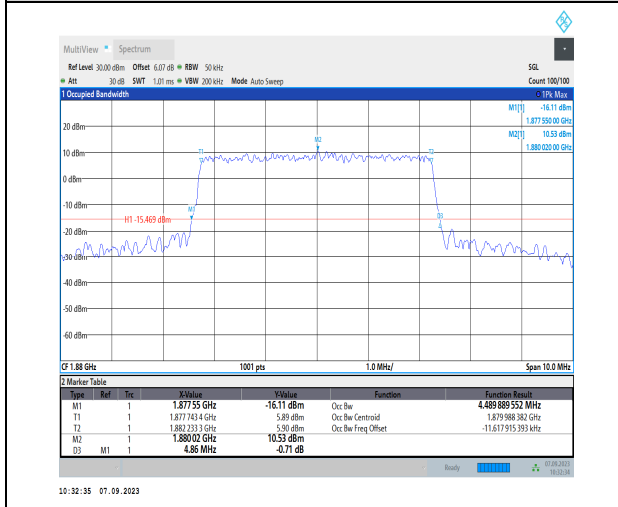
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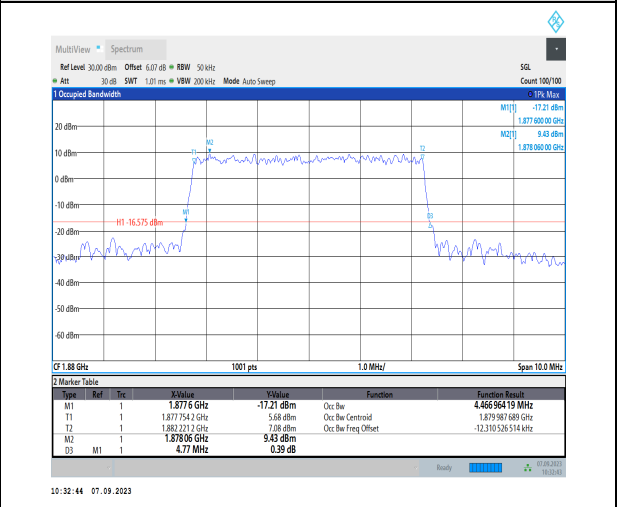
1-N2-PC3-15-5-M-5-DFT-256QAM-Outer_Full-25@0
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1-N2-PC3-15-5-M-6-CP-QPSK-Outer_Full-25@0-An
t2-4.476-4.830- ≤ 5 -PASS



1-N2-PC3-15-5-M-7-CP-16QAM-Outer_Full-25@0-A
nt2-4.49-4.860- ≤ 5 -PASS



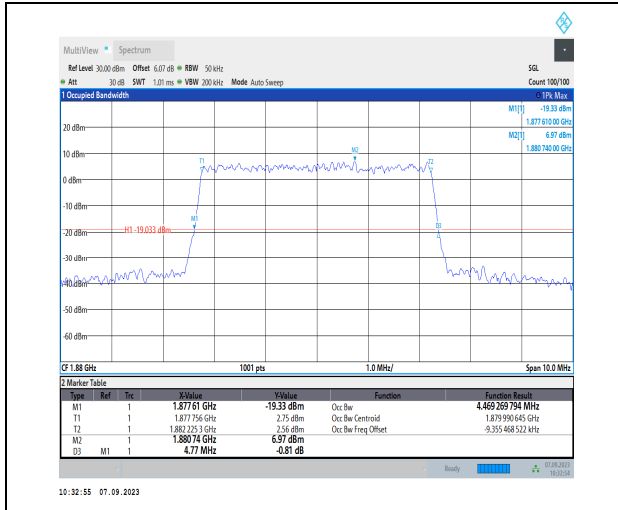
1-N2-PC3-15-5-M-8-CP-64QAM-Outer_Full-25@0-A
nt2-4.467-4.770- ≤ 5 -PASS



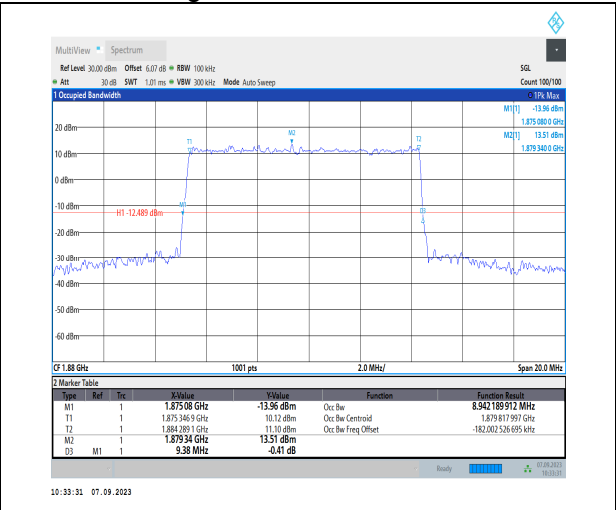
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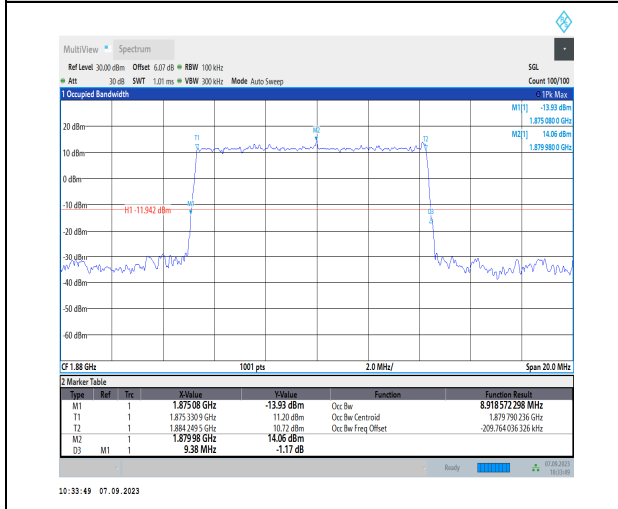
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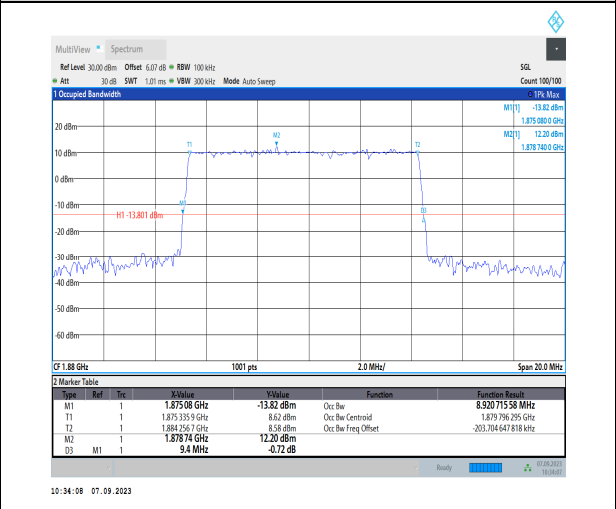
1-N2-PC3-15-5-M-9-CP-256QAM-Outer_Full-25@0-Ant2-4.469-4.770-≤5-PASS



1-N2-PC3-15-10-M-1-DFT-QPSK-Outer_Full-50@0-Ant2-8.942-9.380-≤10-PASS



1-N2-PC3-15-10-M-2-DFT-PI2BPSK-Outer_Full-50@0-Ant2-8.919-9.380-≤10-PASS



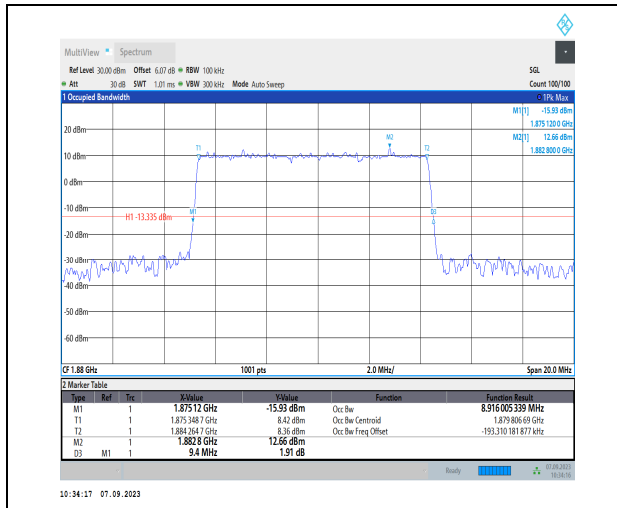
1-N2-PC3-15-10-M-3-DFT-16QAM-Outer_Full-50@0-Ant2-8.921-9.400-≤10-PASS



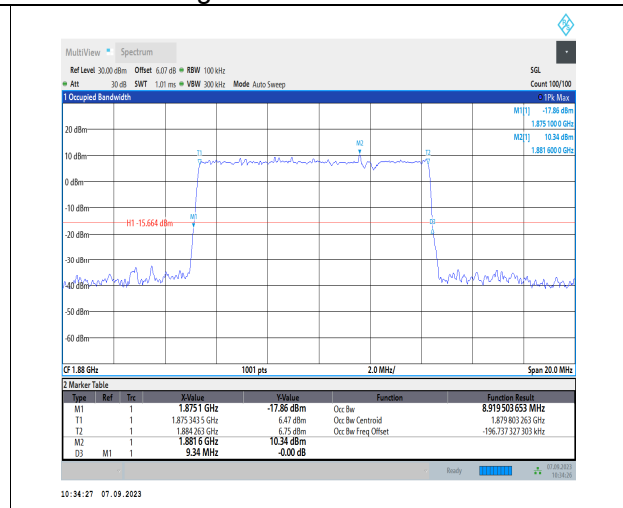
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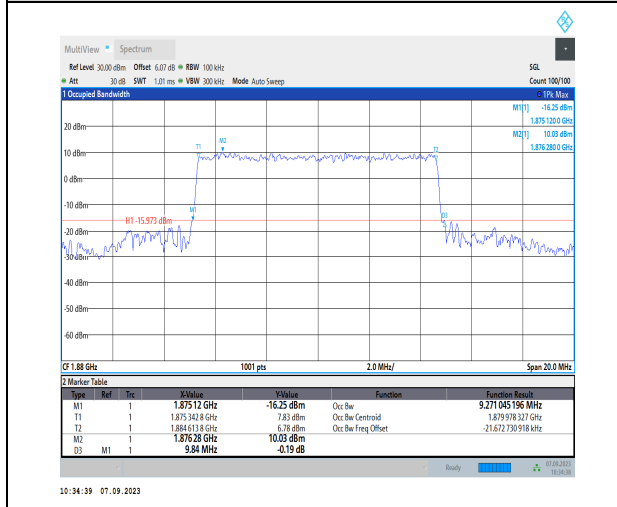
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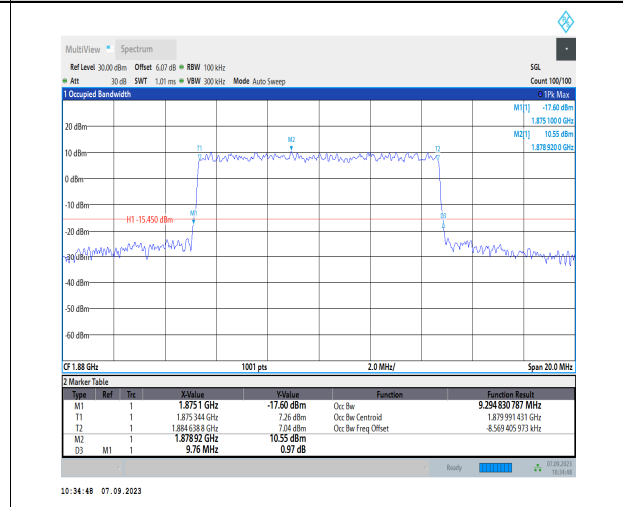
1-N2-PC3-15-10-M-4-DFT-64QAM-Outer_Full-50@0-Ant2-8.916-9.400-≤10-PASS



1-N2-PC3-15-10-M-5-DFT-256QAM-Outer_Full-50@0-Ant2-8.92-9.340-≤10-PASS



1-N2-PC3-15-10-M-6-CP-QPSK-Outer_Full-52@0-Ant2-9.271-9.840-≤10-PASS



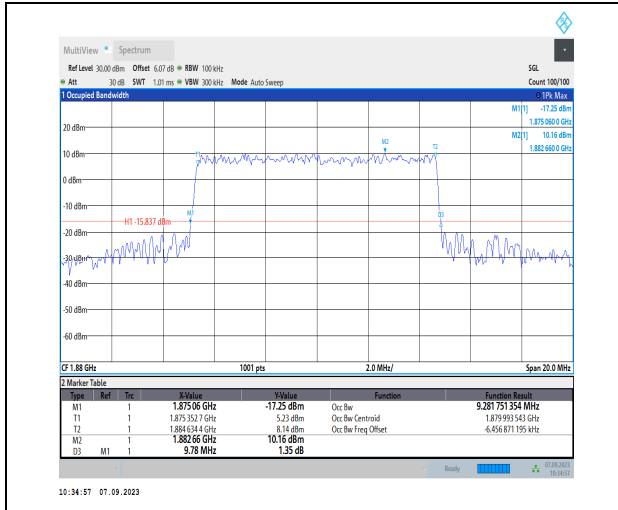
1-N2-PC3-15-10-M-7-CP-16QAM-Outer_Full-52@0-Ant2-9.295-9.760-≤10-PASS



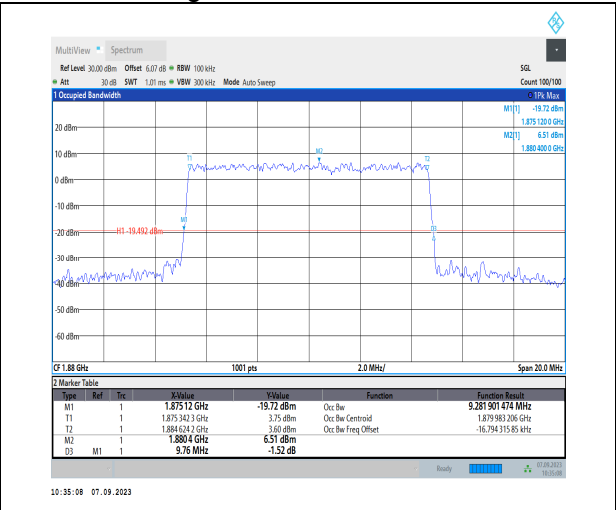
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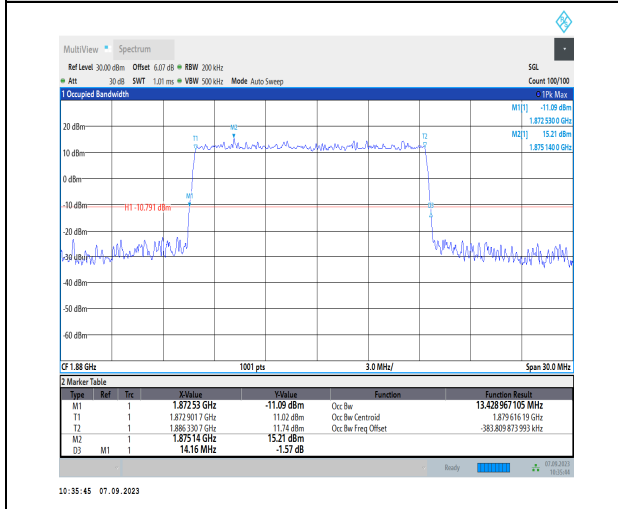
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1-N2-PC3-15-10-M-8-CP-64QAM-Outer_Full-52@0-Ant2-9.282-9.780-≤ 10-PASS



1-N2-PC3-15-10-M-9-CP-256QAM-Outer_Full-52@0-Ant2-9.282-9.760-≤ 10-PASS



1-N2-PC3-15-15-M-1-DFT-QPSK-Outer_Full-75@0-Ant2-13.429-14.160-≤ 15-PASS



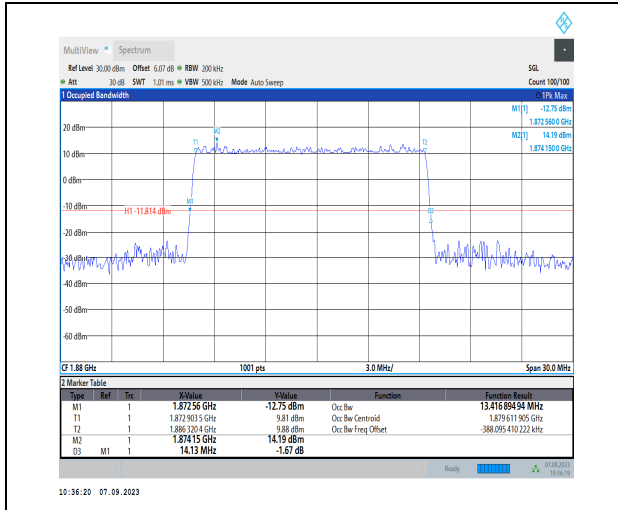
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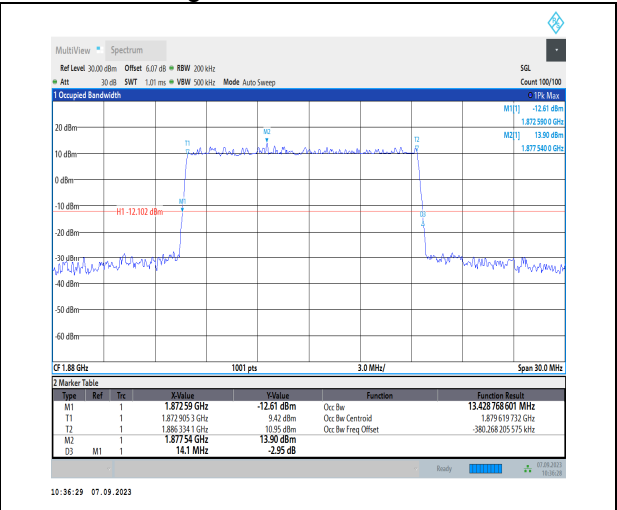
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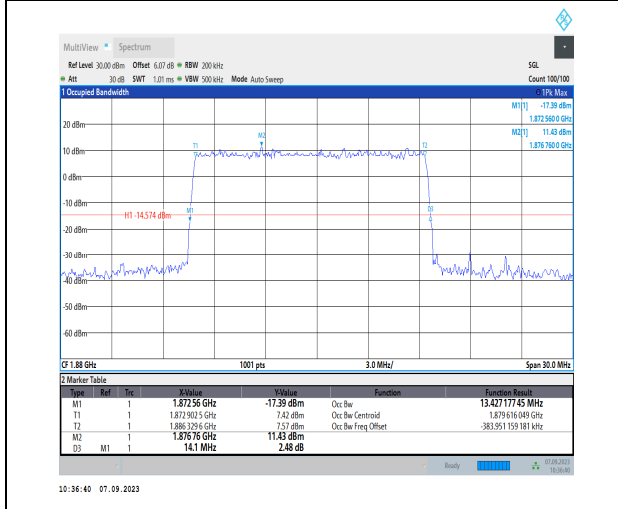
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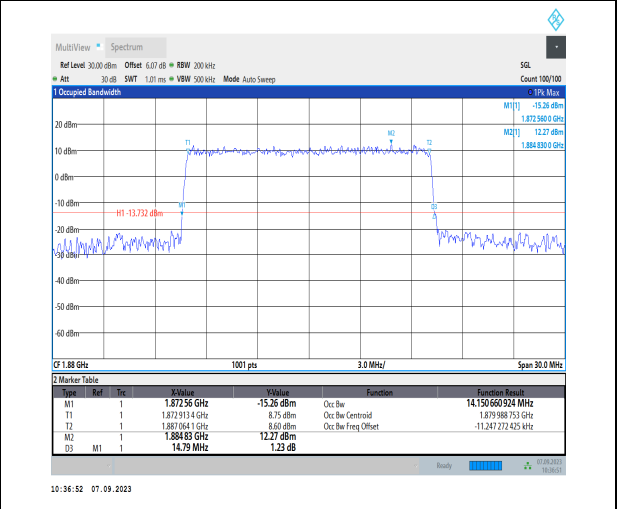
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-Ant2-13.417-14.130-≤15-PASS



1-N2-PC3-15-15-M-4-DFT-64QAM-Outer_Full-75@0
-Ant2-13.429-14.100-≤15-PASS



1-N2-PC3-15-15-M-5-DFT-256QAM-Outer_Full-75@0
-Ant2-13.427-14.100-≤15-PASS



1-N2-PC3-15-15-M-6-CP-QPSK-Outer_Full-79@0-A
nt2-14.151-14.790-≤15-PASS

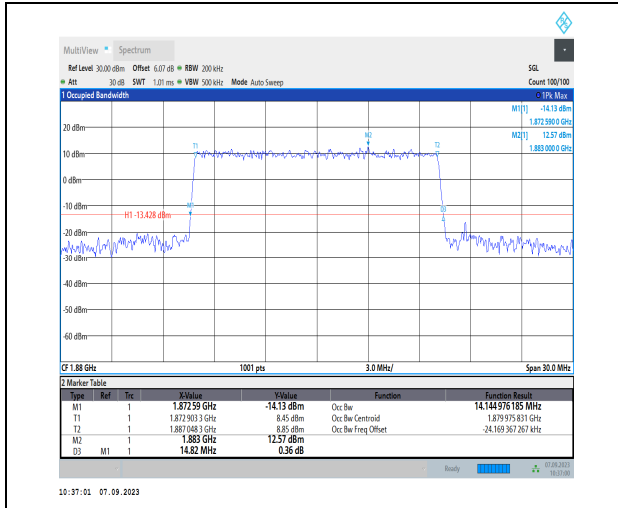


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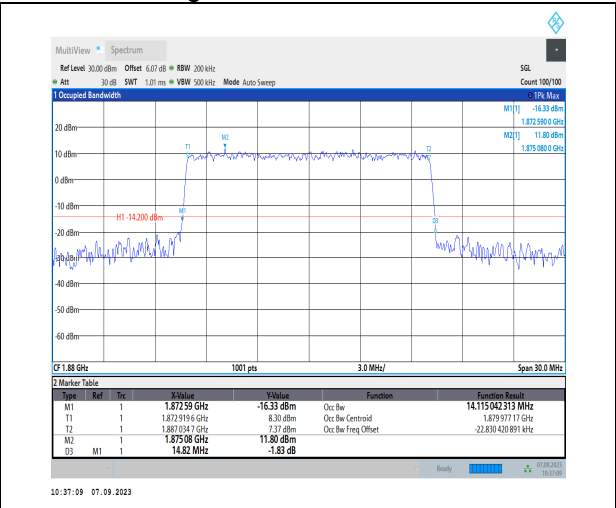
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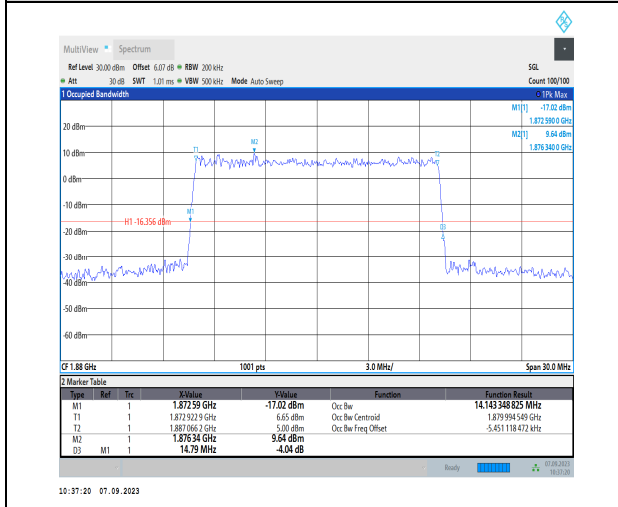
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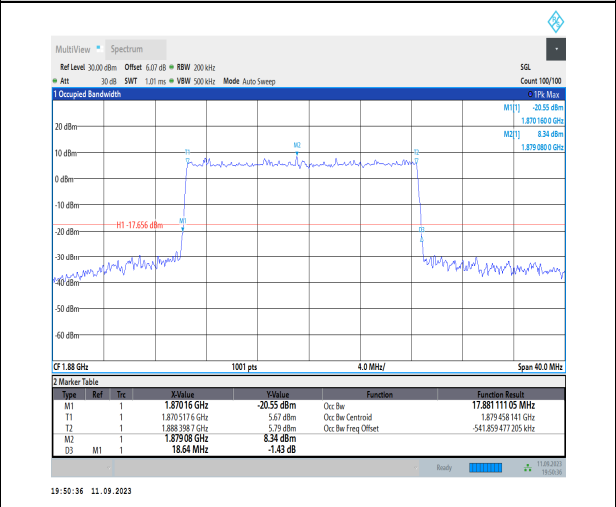
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1-N2-PC3-15-15-M-8-CP-64QAM-Outer_Full-79@0-Ant2-14.115-14.820-<=15-PASS



1-N2-PC3-15-15-M-9-CP-256QAM-Outer_Full-79@0-Ant2-14.143-14.790-<=15-PASS



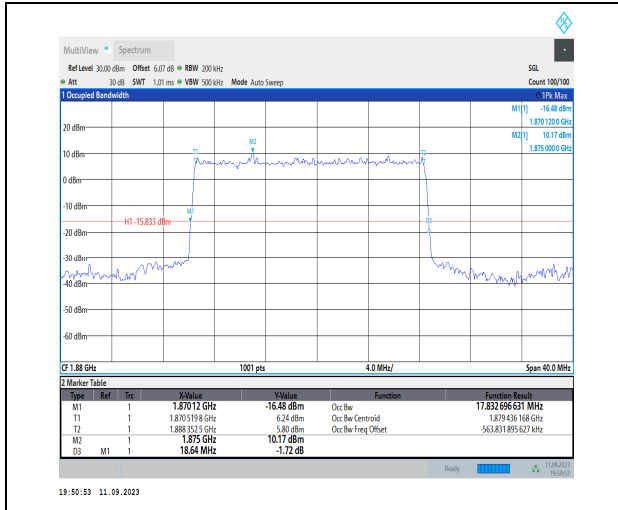
1-N2-PC3-15-20-M-1-DFT-QPSK-Outer_Full-100@0-Ant2-17.881-18.640-<=20-PASS



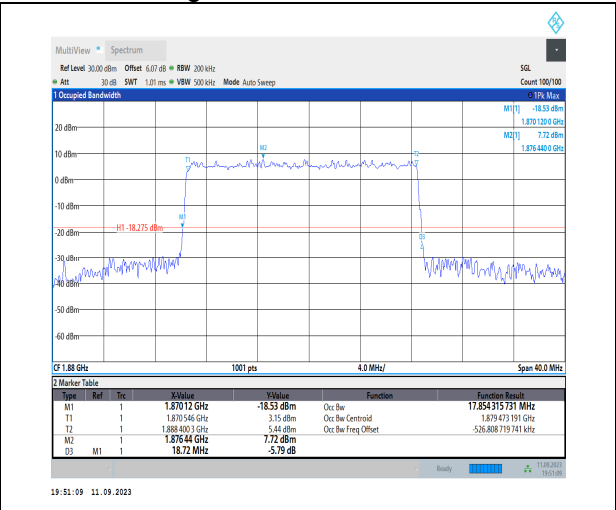
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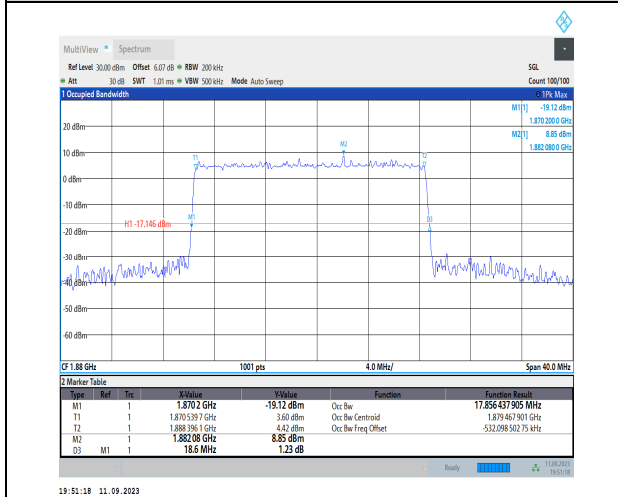
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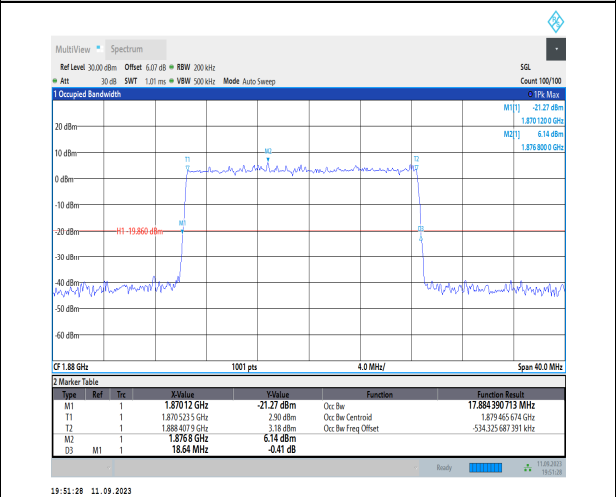
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1-N2-PC3-15-20-M-3-DFT-16QAM-Outer_Full-100@0-Ant2-17.854-18.720-≤20-PASS



1-N2-PC3-15-20-M-4-DFT-64QAM-Outer_Full-100@0-Ant2-17.856-18.600-≤20-PASS



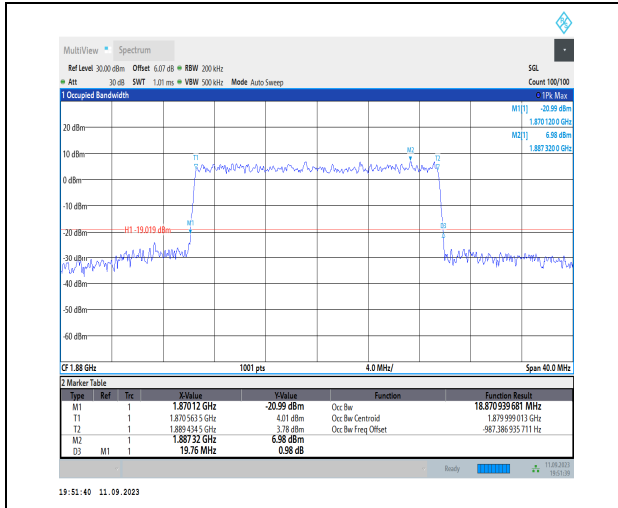
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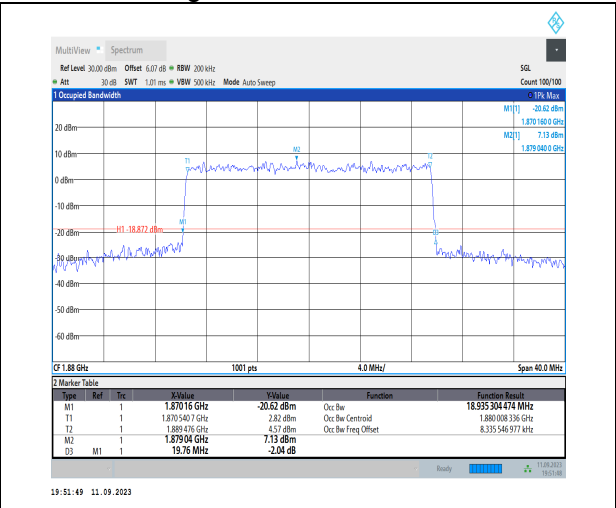
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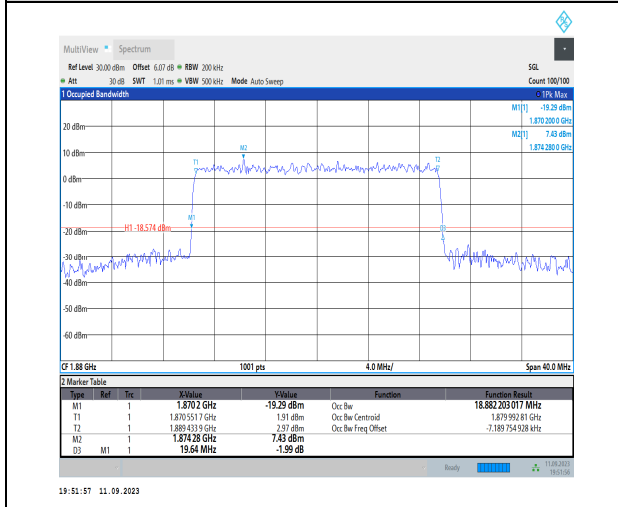
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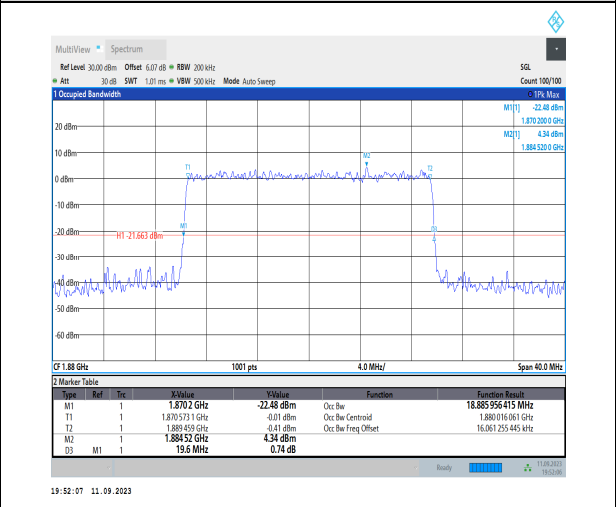
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1-N2-PC3-15-20-M-7-CP-16QAM-Outer_Full-106@0-Ant2-18.935-19.760-≤20-PASS



1-N2-PC3-15-20-M-8-CP-64QAM-Outer_Full-106@0-Ant2-18.882-19.640-≤20-PASS



1-N2-PC3-15-20-M-9-CP-256QAM-Outer_Full-106@0-Ant2-18.886-19.600-≤20-PASS



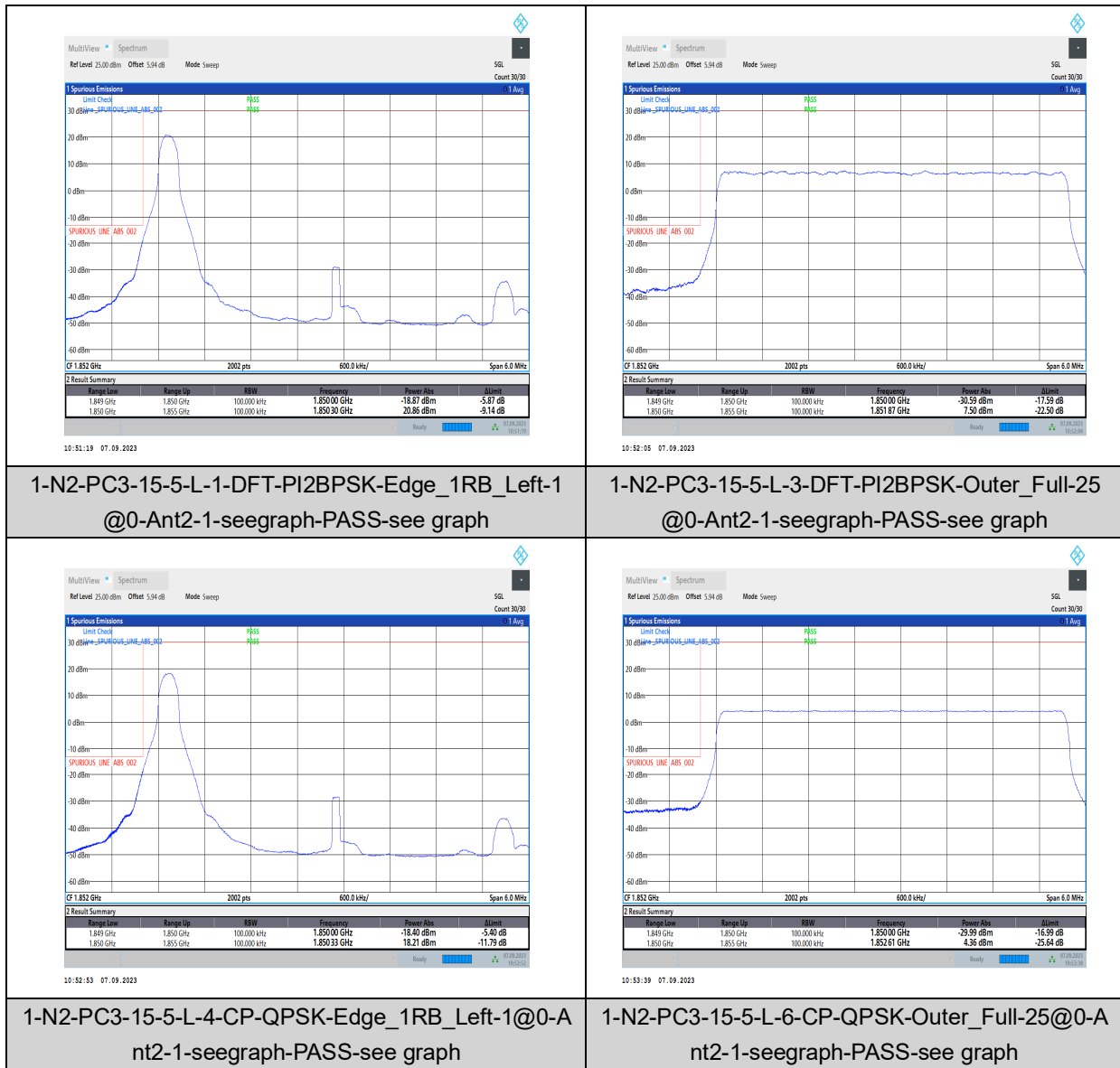
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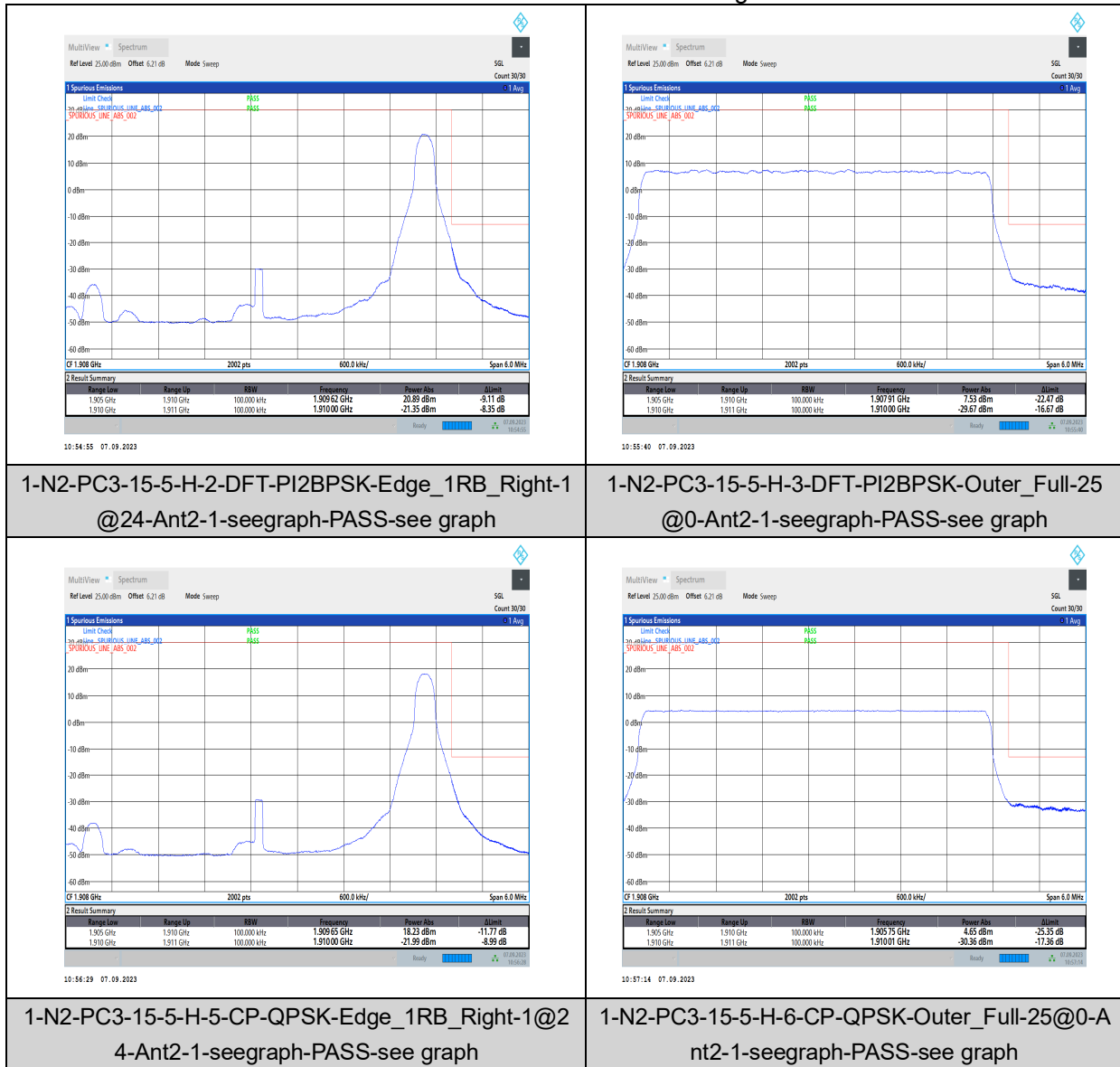
Test Graphs



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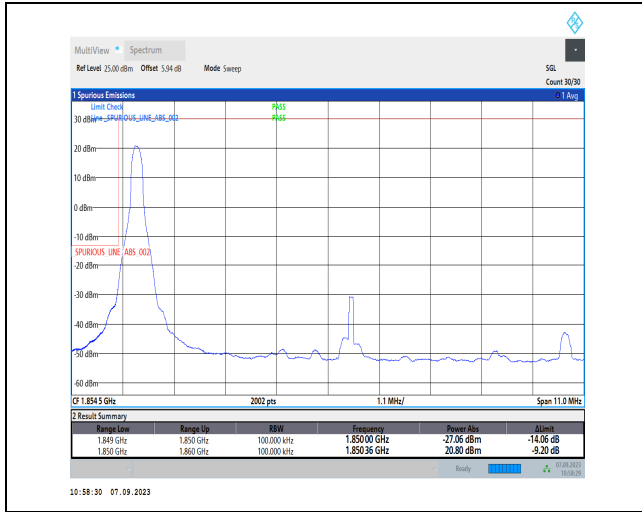
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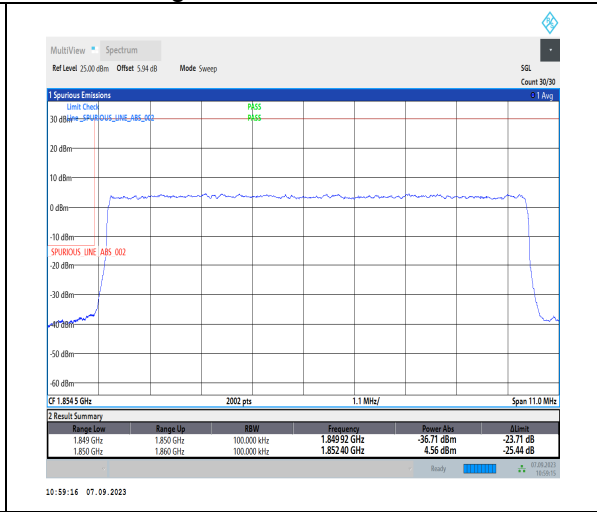
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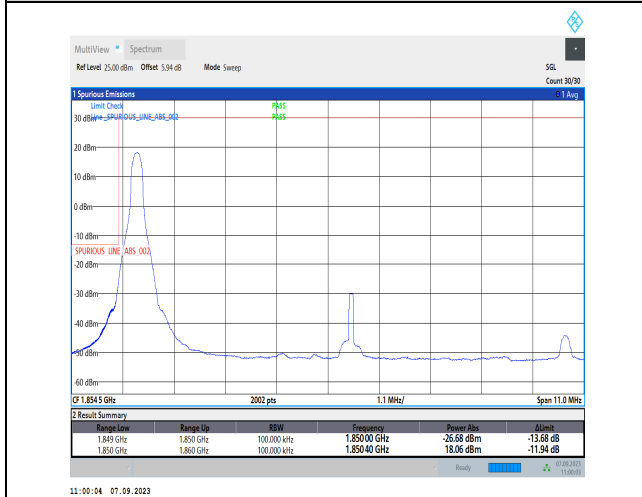
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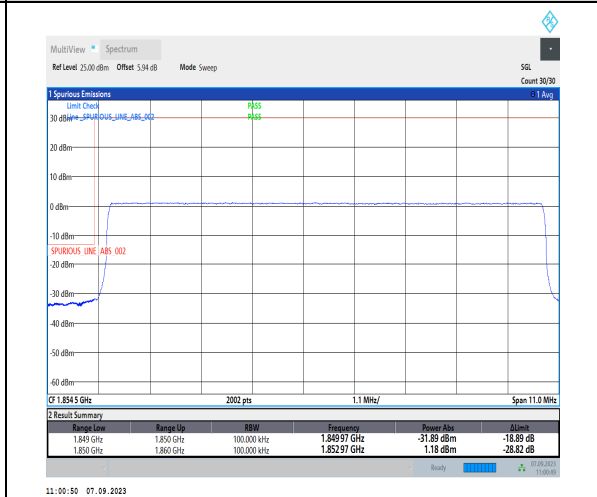
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1-N2-PC3-15-10-L-3-DFT-PI2BPSK-Outer_Full-50 @0-Ant2-1-seegraph-PASS-see graph



1-N2-PC3-15-10-L-4-CP-QPSK-Edge_1RB_Left-1 @0-Ant2-1-seegraph-PASS-see graph



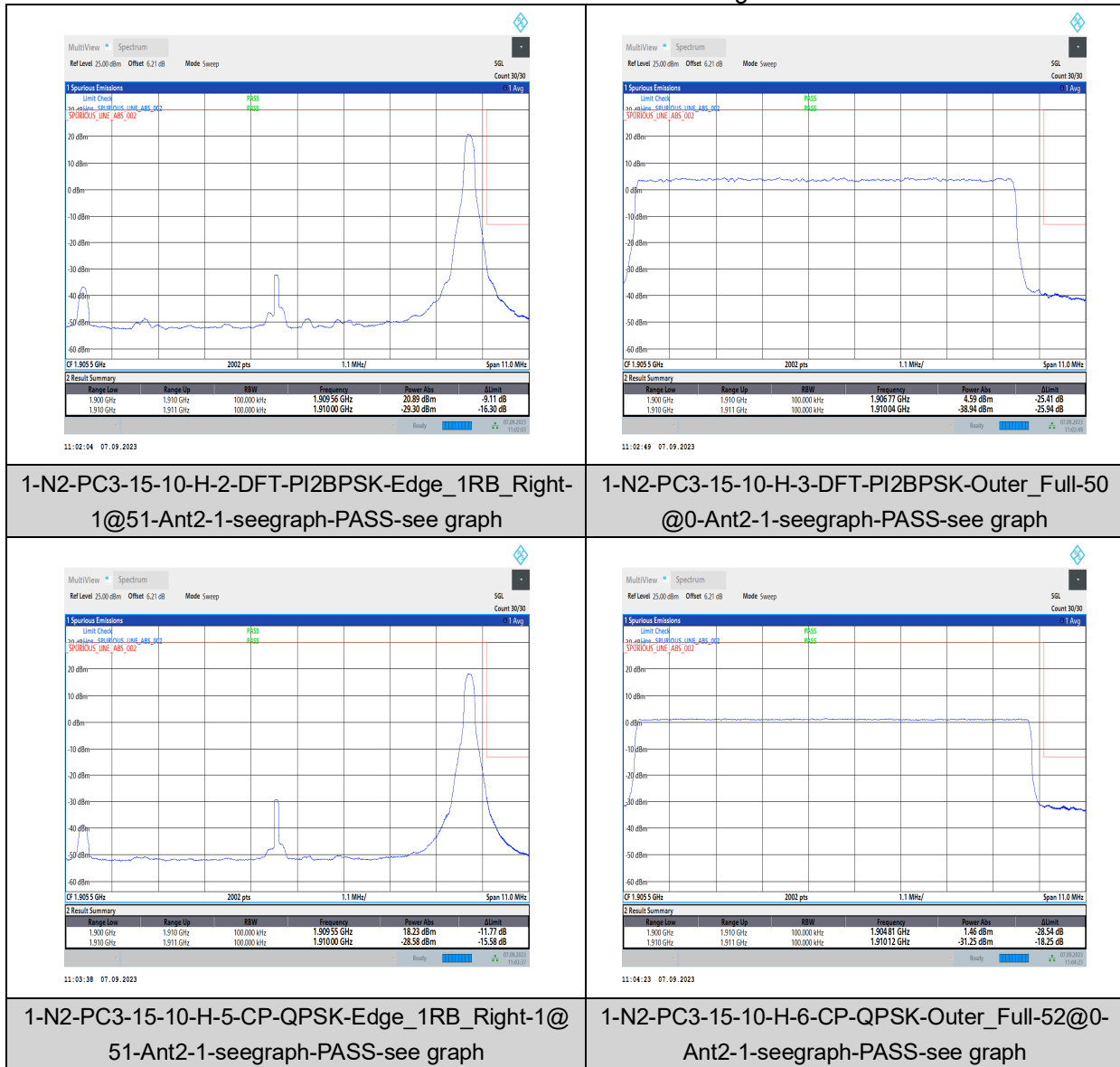
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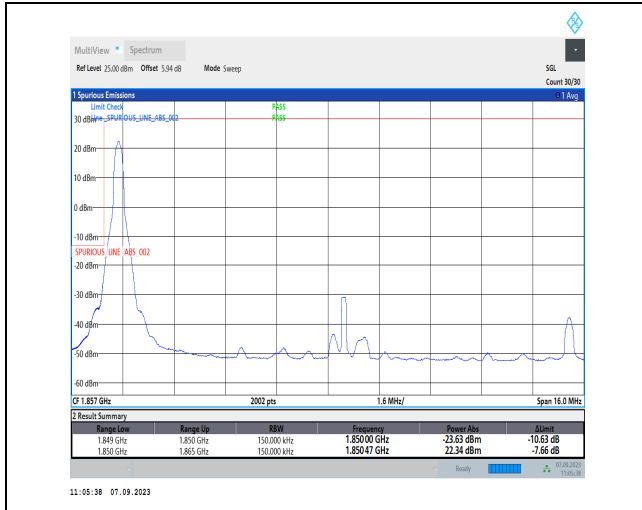
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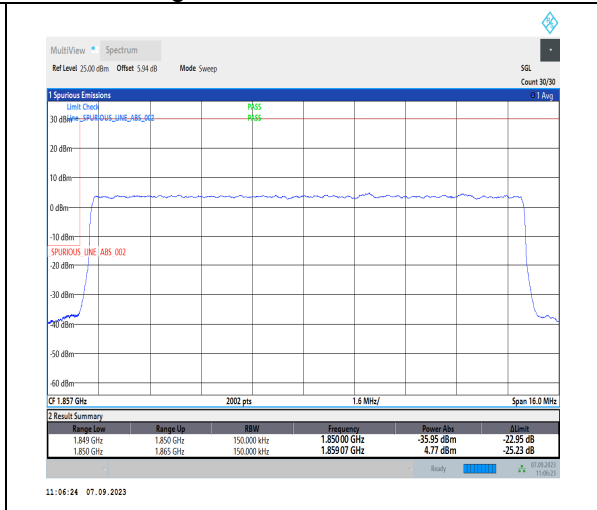
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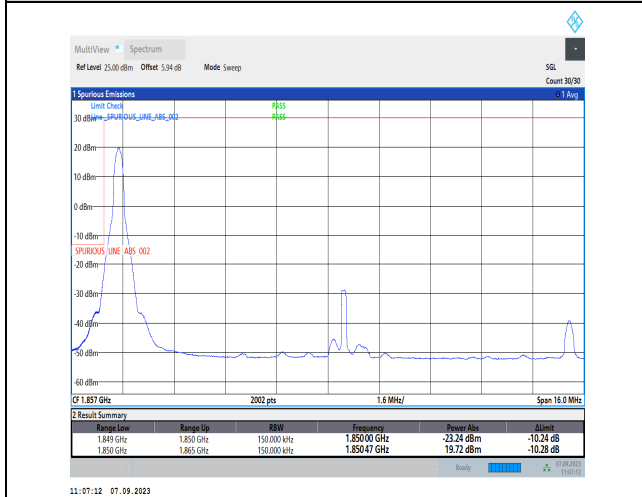
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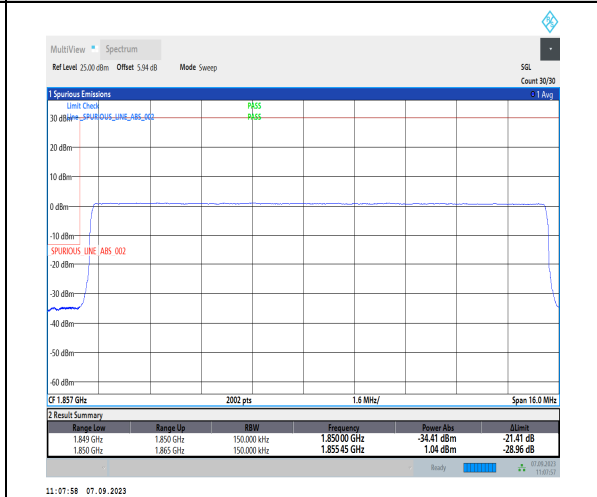
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1-N2-PC3-15-15-L-4-CP-QPSK-Edge_1RB_Left-1 @0-Ant2-1-seegraph-PASS-see graph



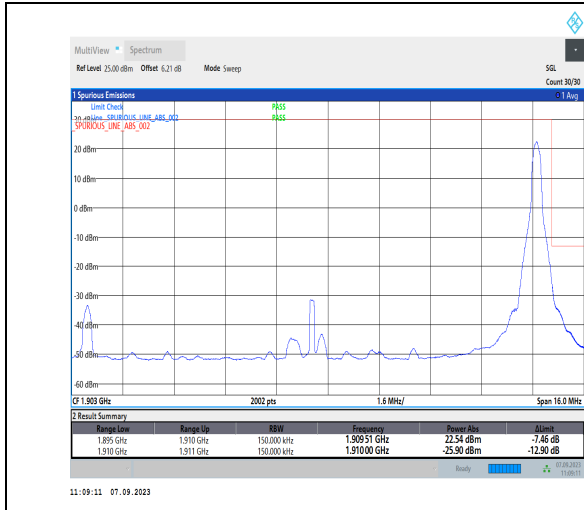
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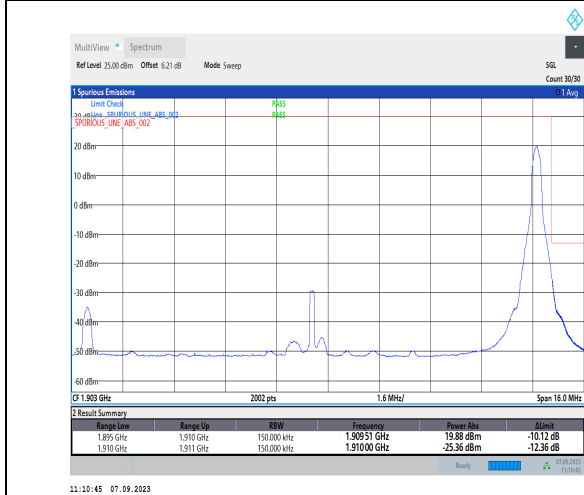
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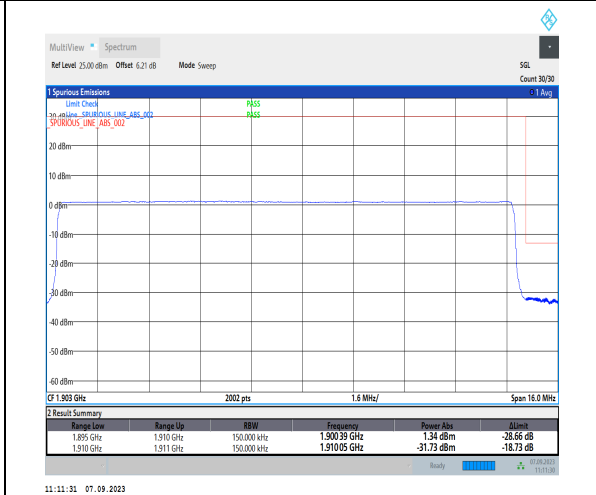
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1-N2-PC3-15-15-H-5-CP-QPSK-Edge_1RB_Right-1@78-Ant2-1-seegraph-PASS-see graph



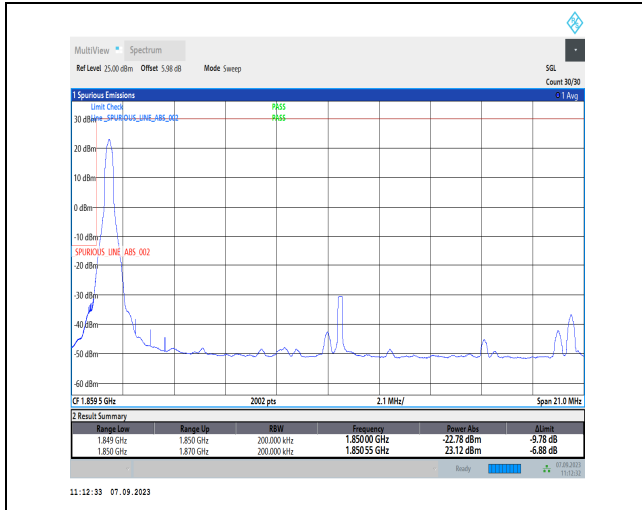
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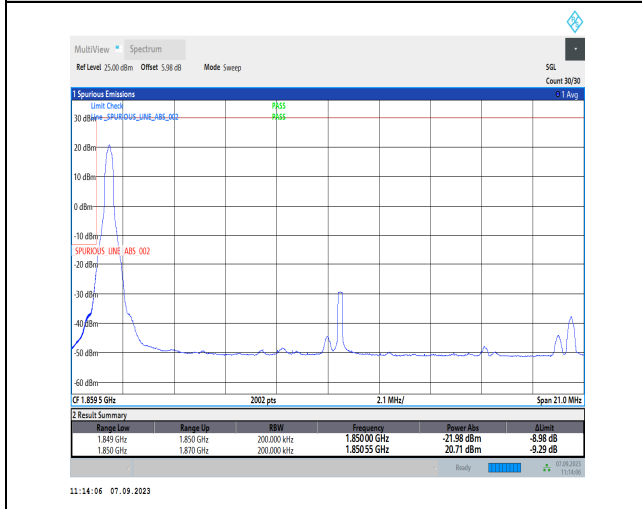
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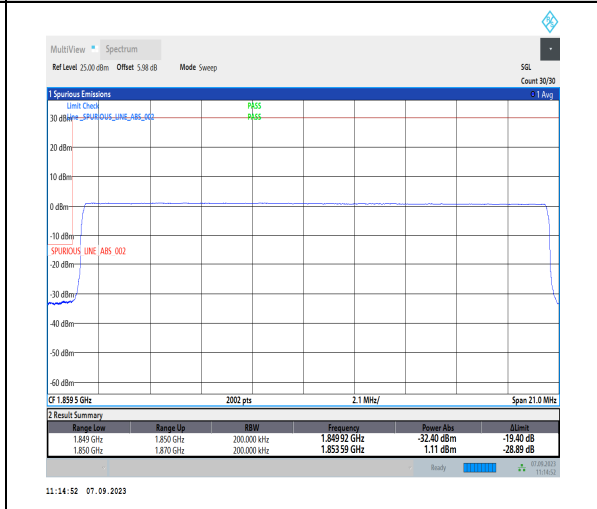
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1-N2-PC3-15-20-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant2-1-seegraph-PASS-see graph



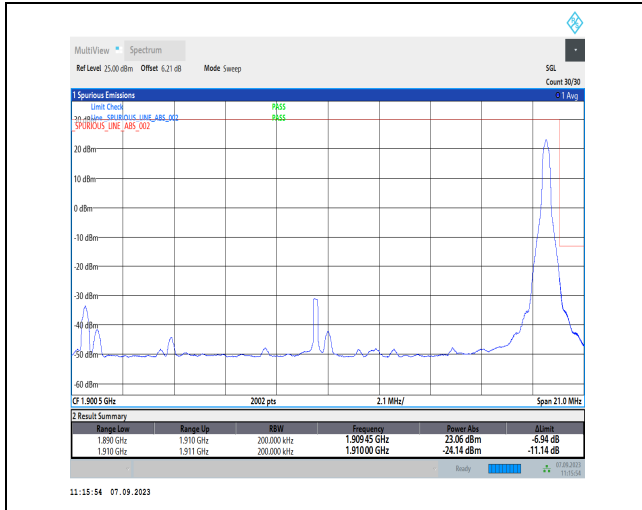
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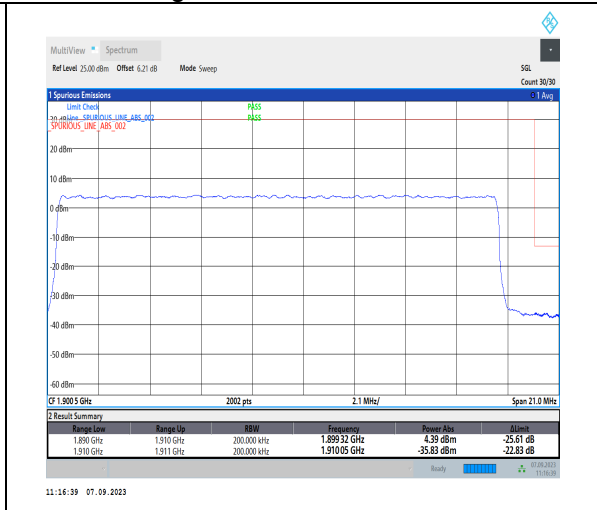
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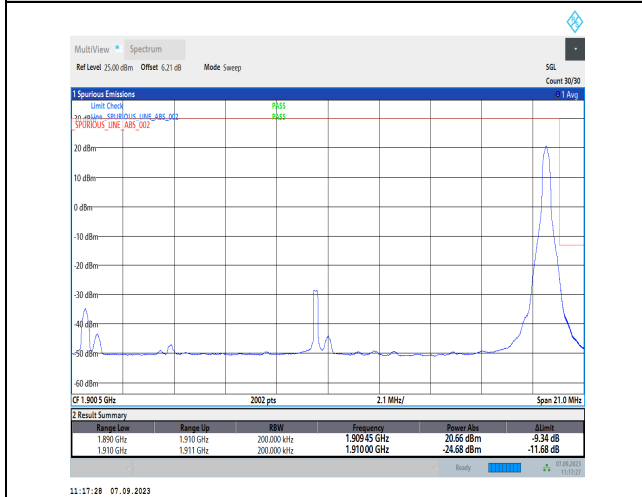
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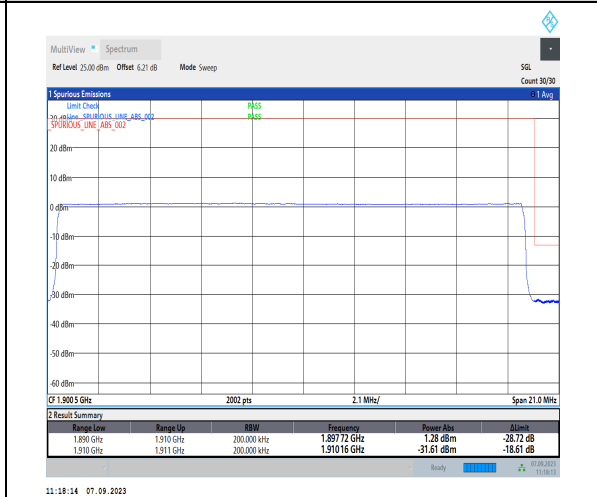
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1-N2-PC3-15-20-H-5-CP-QPSK-Edge_1RB_Right-1@105-Ant2-1-seegraph-PASS-see graph



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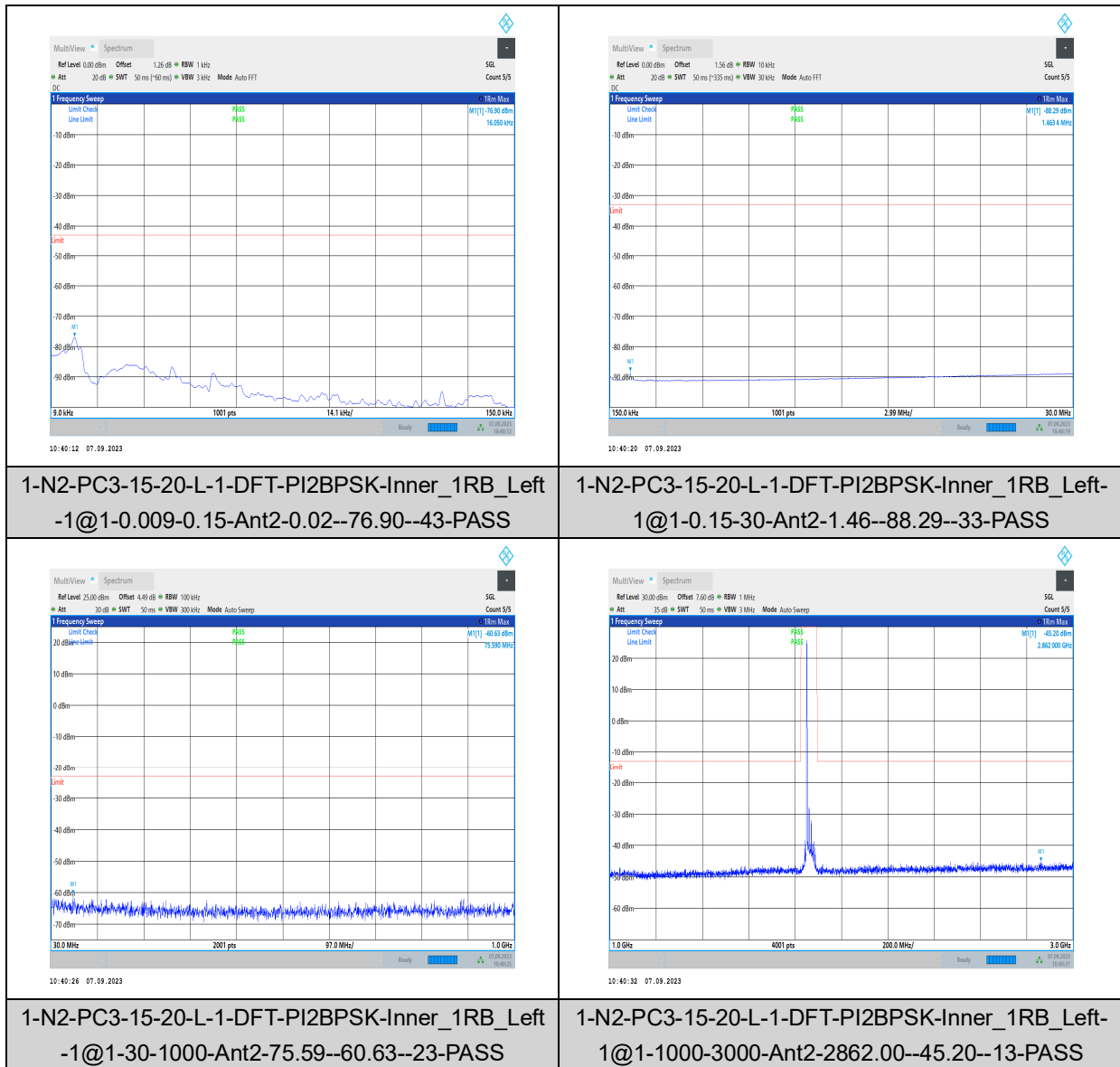
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Conducted Spurious Emission for SA

Test Graphs

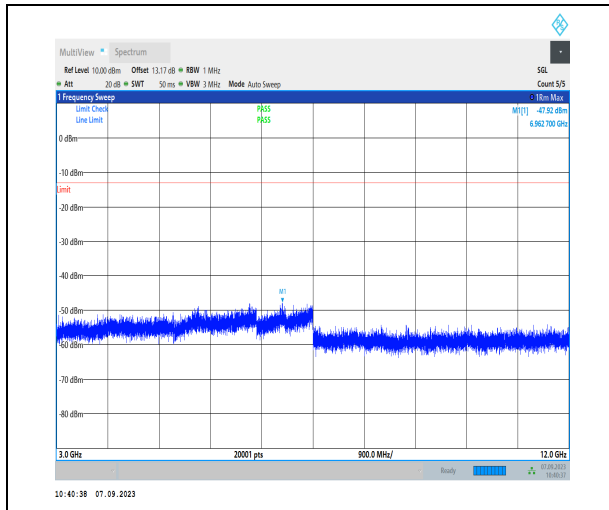


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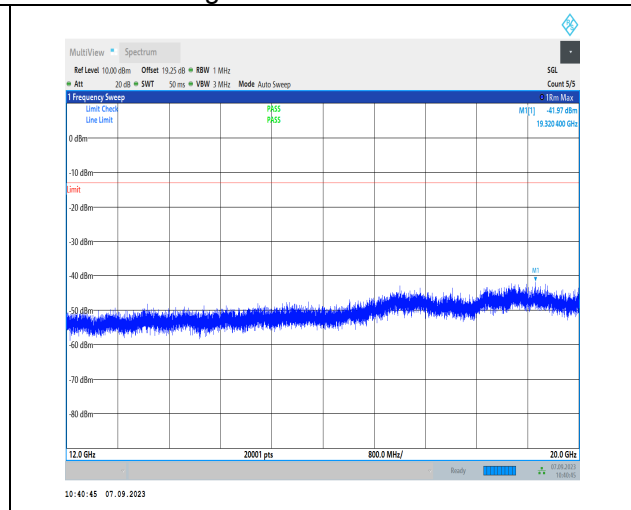
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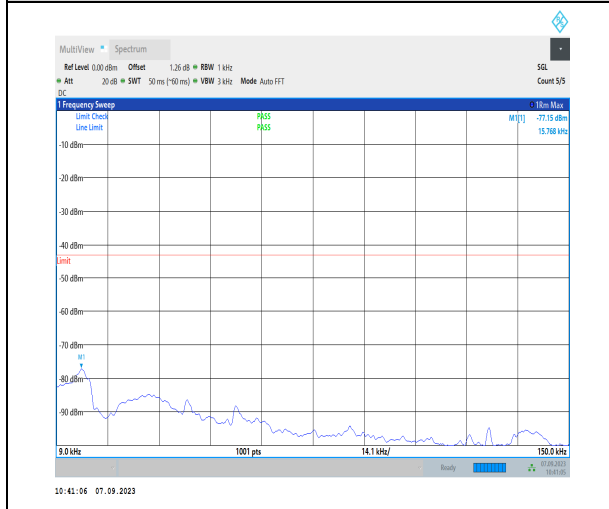
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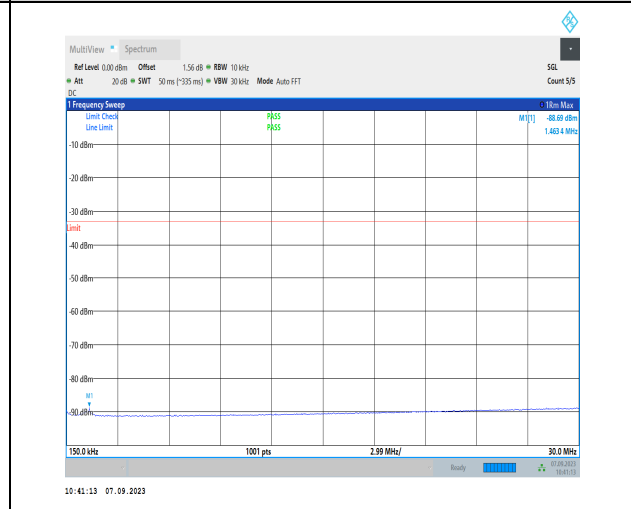
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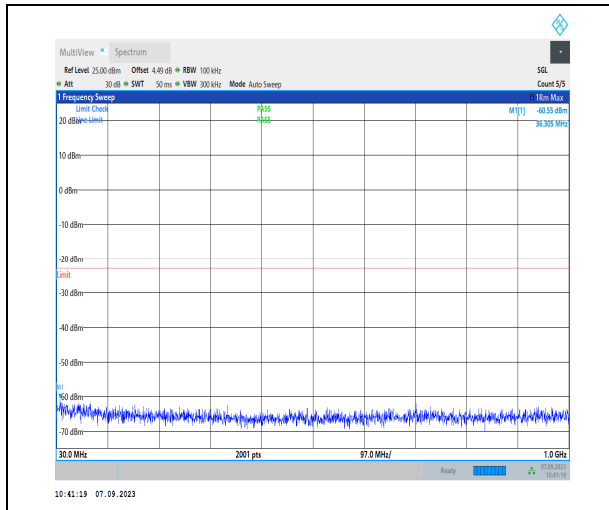


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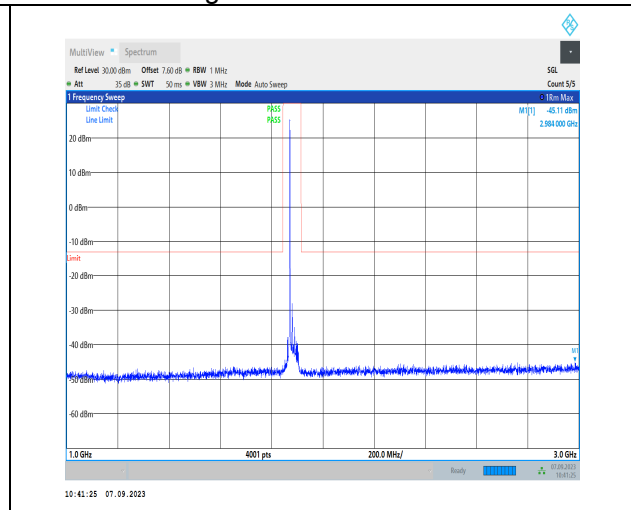


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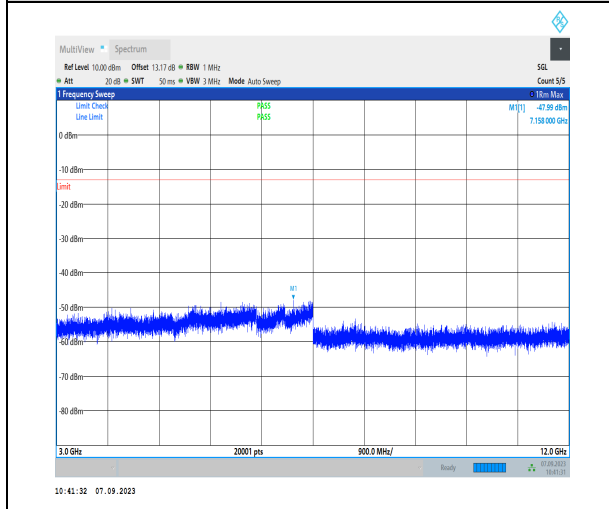
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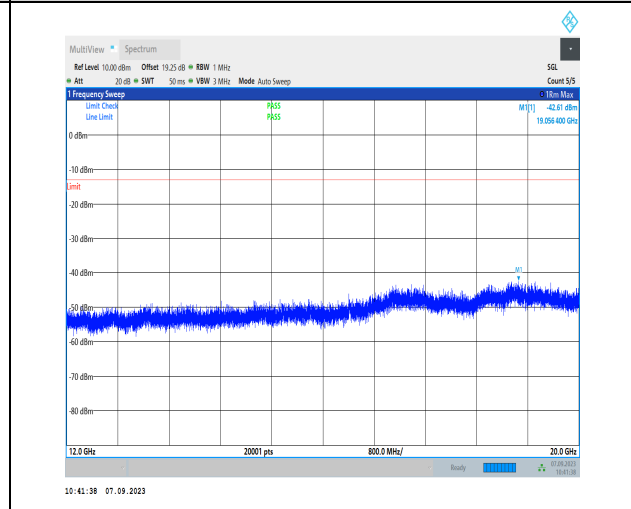
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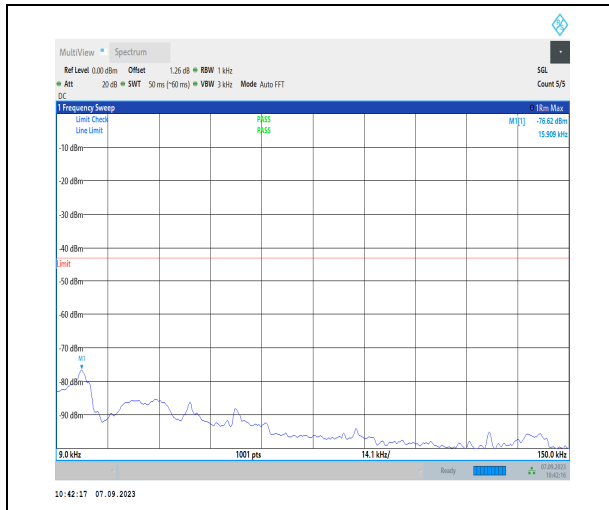
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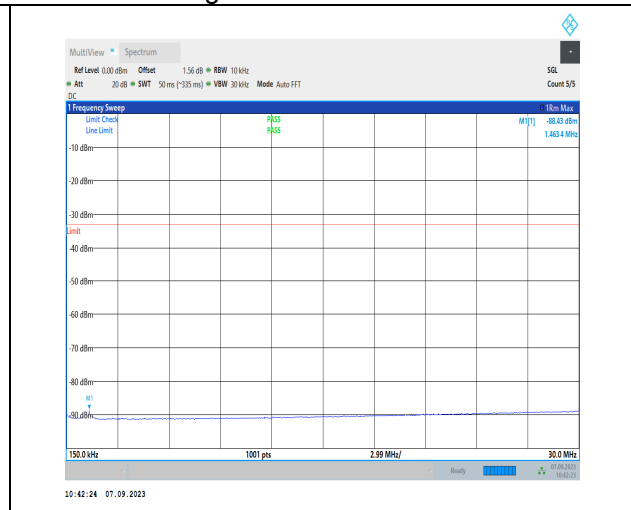
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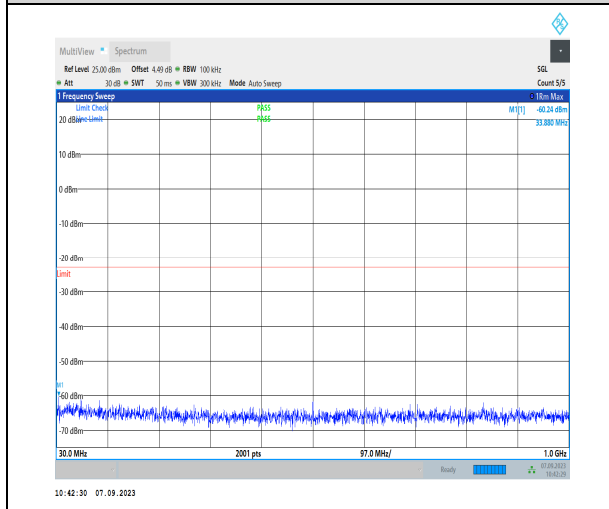
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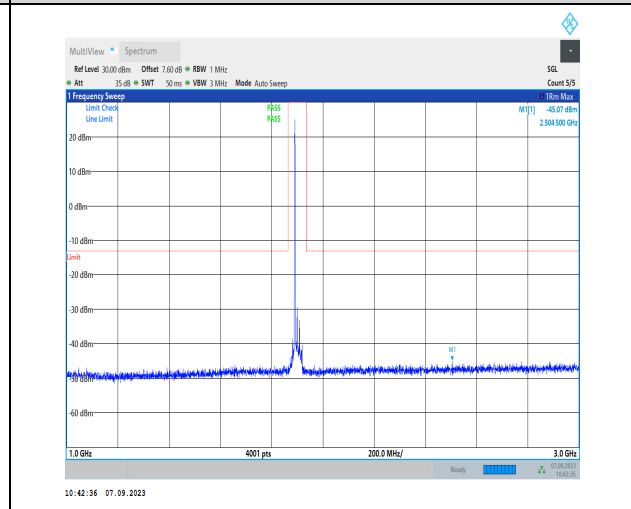
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1-N2-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant2-1.46--88.43--33-PASS



1-N2-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant2-33.88--60.24--23-PASS



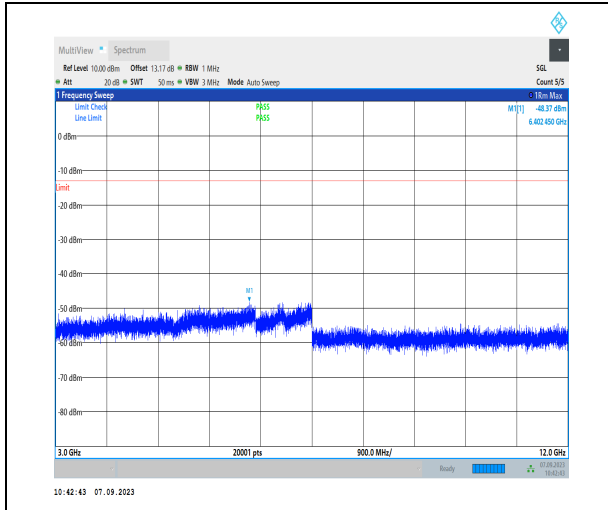
1-N2-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant2-2504.50--45.07--13-PASS



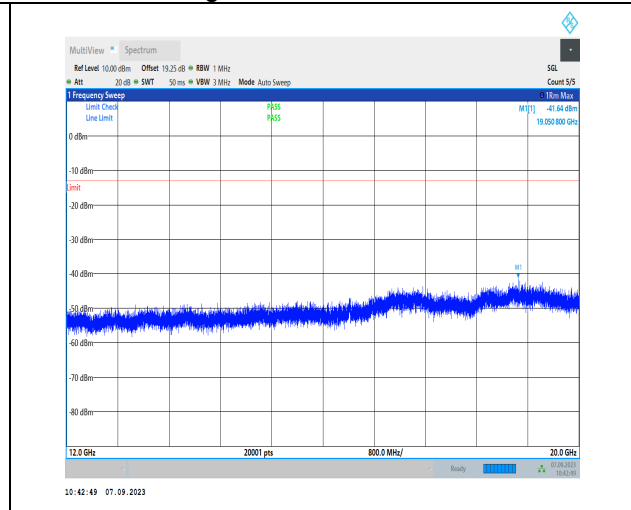
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1-N2-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-t-1@1-3000-12000-Ant2-6402.45--48.37--13-PASS



1-N2-PC3-15-20-H-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-20000-Ant2-19050.80--41.64--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 2_20MHz_ 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	3702.18	44.47	-48.50	28.98	-70.31	-13.00	57.31	Horizontal
2	5553.27	43.77	-47.66	32.71	-66.44	-13.00	53.44	Horizontal
3	7404.36	42.98	-46.17	36.57	-61.88	-13.00	48.88	Horizontal
4	9255.45	39.66	-43.17	37.83	-60.94	-13.00	47.94	Horizontal
5	11106.54	37.41	-40.36	39.38	-58.83	-13.00	45.83	Horizontal
6	12957.63	36.93	-39.41	38.63	-59.11	-13.00	46.11	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.18	44.32	-48.50	28.98	-70.46	-13.00	57.46	Vertical
2	5553.27	43.39	-47.66	32.71	-66.82	-13.00	53.82	Vertical
3	7404.36	42.48	-46.17	36.57	-62.38	-13.00	49.38	Vertical
4	9255.45	40.89	-43.17	37.83	-59.71	-13.00	46.71	Vertical
5	11106.54	37.47	-40.36	39.38	-58.77	-13.00	45.77	Vertical
6	12957.63	36.88	-39.41	38.63	-59.16	-13.00	46.16	Vertical



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Test Band = SA Band 2_20MHz_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	3742.18	44.72	-48.37	29.04	-69.87	-13.00	56.87	Horizontal
2	5613.27	43.51	-47.67	32.72	-66.70	-13.00	53.70	Horizontal
3	7484.36	42.57	-46.17	36.76	-62.10	-13.00	49.10	Horizontal
4	9355.45	40.26	-42.97	37.92	-60.05	-13.00	47.05	Horizontal
5	11226.54	37.58	-40.37	39.35	-58.70	-13.00	45.70	Horizontal
6	13097.63	36.93	-38.42	38.83	-57.92	-13.00	44.92	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.18	44.41	-48.37	29.04	-70.18	-13.00	57.18	Vertical
2	5613.27	43.97	-47.67	32.72	-66.24	-13.00	53.24	Vertical
3	7484.36	41.98	-46.17	36.76	-62.69	-13.00	49.69	Vertical
4	9355.45	41.06	-42.97	37.92	-59.25	-13.00	46.25	Vertical
5	11226.54	37.65	-40.37	39.35	-58.63	-13.00	45.63	Vertical
6	13097.63	36.36	-38.42	38.83	-58.49	-13.00	45.49	Vertical



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Test Band = SA Band 2_20MHz_ 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	3782.18	44.08	-48.24	29.10	-70.32	-13.00	57.32	Horizontal
2	5673.27	43.66	-47.55	32.73	-66.41	-13.00	53.41	Horizontal
3	7564.36	41.54	-45.14	36.72	-62.14	-13.00	49.14	Horizontal
4	9455.45	39.76	-42.67	38.01	-60.16	-13.00	47.16	Horizontal
5	11346.54	37.17	-40.28	39.33	-59.04	-13.00	46.04	Horizontal
6	13237.63	36.48	-38.85	39.15	-58.48	-13.00	45.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.18	43.67	-48.24	29.10	-70.73	-13.00	57.73	Vertical
2	5673.27	43.15	-47.55	32.73	-66.92	-13.00	53.92	Vertical
3	7564.36	41.66	-45.14	36.72	-62.02	-13.00	49.02	Vertical
4	9455.45	40.39	-42.67	38.01	-59.53	-13.00	46.53	Vertical
5	11346.54	37.81	-40.28	39.33	-58.40	-13.00	45.40	Vertical
6	13237.63	37.06	-38.85	39.15	-57.90	-13.00	44.90	Vertical



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Test Band = NSA DC_2A_n2A_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	3702.18	39.82	-43.01	30.29	-68.16	-13.00	55.16	Horizontal
2	5553.27	36.77	-40.67	33.28	-65.88	-13.00	52.88	Horizontal
3	7404.36	35.06	-37.88	36.49	-61.60	-13.00	48.60	Horizontal
4	9255.45	30.77	-34.28	37.68	-61.09	-13.00	48.09	Horizontal
5	11106.54	29.57	-30.26	38.40	-57.55	-13.00	44.55	Horizontal
6	12957.63	29.78	-29.72	39.55	-55.65	-13.00	42.65	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.18	39.44	-43.01	30.29	-68.54	-13.00	55.54	Vertical
2	5553.27	37.43	-40.67	33.28	-65.22	-13.00	52.22	Vertical
3	7404.36	35.77	-37.88	36.49	-60.89	-13.00	47.89	Vertical
4	9255.45	31.22	-34.28	37.68	-60.64	-13.00	47.64	Vertical
5	11106.54	30.15	-30.26	38.40	-56.97	-13.00	43.97	Vertical
6	12957.63	29.93	-29.72	39.55	-55.50	-13.00	42.50	Vertical



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Test Band = NSA DC_2A_n2A_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	3742.18	38.42	-42.96	30.42	-69.38	-13.00	56.38	Horizontal
2	5613.27	36.56	-40.69	33.49	-65.90	-13.00	52.90	Horizontal
3	7484.36	34.38	-37.80	36.58	-62.09	-13.00	49.09	Horizontal
4	9355.45	32.07	-33.93	37.71	-59.42	-13.00	46.42	Horizontal
5	11226.54	29.24	-30.19	38.40	-57.81	-13.00	44.81	Horizontal
6	13097.63	29.13	-29.42	39.67	-55.88	-13.00	42.88	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.18	39.58	-42.96	30.42	-68.22	-13.00	55.22	Vertical
2	5613.27	36.53	-40.69	33.49	-65.93	-13.00	52.93	Vertical
3	7484.36	34.44	-37.80	36.58	-62.03	-13.00	49.03	Vertical
4	9355.45	31.72	-33.93	37.71	-59.77	-13.00	46.77	Vertical
5	11226.54	30.52	-30.19	38.40	-56.53	-13.00	43.53	Vertical
6	13097.63	29.53	-29.42	39.67	-55.48	-13.00	42.48	Vertical



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Test Band = NSA DC_2A_n2A_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	3782.18	38.46	-42.92	30.56	-69.16	-13.00	56.16	Horizontal
2	5673.27	36.32	-40.55	33.69	-65.80	-13.00	52.80	Horizontal
3	7564.36	35.23	-37.74	36.66	-61.11	-13.00	48.11	Horizontal
4	9455.45	32.29	-33.82	37.74	-59.06	-13.00	46.06	Horizontal
5	11346.54	29.26	-30.19	38.40	-57.79	-13.00	44.79	Horizontal
6	13237.63	29.10	-29.40	39.77	-55.80	-13.00	42.80	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.18	38.94	-42.92	30.56	-68.68	-13.00	55.68	Vertical
2	5673.27	36.44	-40.55	33.69	-65.68	-13.00	52.68	Vertical
3	7564.36	34.83	-37.74	36.66	-61.51	-13.00	48.51	Vertical
4	9455.45	32.93	-33.82	37.74	-58.42	-13.00	45.42	Vertical
5	11346.54	30.29	-30.19	38.40	-56.76	-13.00	43.76	Vertical
6	13237.63	28.94	-29.40	39.77	-55.96	-13.00	42.96	Vertical



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Test Band = NSA DC_5A_n2A_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	3702.18	43.78	-48.50	28.98	-71.00	-13.00	58.00	Horizontal
2	5553.27	43.77	-47.66	32.71	-66.44	-13.00	53.44	Horizontal
3	7404.36	43.01	-46.17	36.57	-61.85	-13.00	48.85	Horizontal
4	9255.45	39.43	-43.17	37.83	-61.17	-13.00	48.17	Horizontal
5	11106.54	37.11	-40.36	39.38	-59.13	-13.00	46.13	Horizontal
6	12957.63	36.45	-39.41	38.63	-59.59	-13.00	46.59	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.18	44.53	-48.50	28.98	-70.25	-13.00	57.25	Vertical
2	5553.27	43.99	-47.66	32.71	-66.22	-13.00	53.22	Vertical
3	7404.36	42.35	-46.17	36.57	-62.51	-13.00	49.51	Vertical
4	9255.45	40.19	-43.17	37.83	-60.41	-13.00	47.41	Vertical
5	11106.54	37.48	-40.36	39.38	-58.76	-13.00	45.76	Vertical
6	12957.63	36.52	-39.41	38.63	-59.52	-13.00	46.52	Vertical



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Test Band = NSA DC_5A_n2A_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	3742.18	44.63	-48.37	29.04	-69.96	-13.00	56.96	Horizontal
2	5613.27	43.14	-47.67	32.72	-67.07	-13.00	54.07	Horizontal
3	7484.36	41.54	-46.17	36.76	-63.13	-13.00	50.13	Horizontal
4	9355.45	40.21	-42.97	37.92	-60.10	-13.00	47.10	Horizontal
5	11226.54	37.40	-40.37	39.35	-58.88	-13.00	45.88	Horizontal
6	13097.63	36.00	-38.42	38.83	-58.85	-13.00	45.85	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.18	44.66	-48.37	29.04	-69.93	-13.00	56.93	Vertical
2	5613.27	43.54	-47.67	32.72	-66.67	-13.00	53.67	Vertical
3	7484.36	41.61	-46.17	36.76	-63.06	-13.00	50.06	Vertical
4	9355.45	40.22	-42.97	37.92	-60.09	-13.00	47.09	Vertical
5	11226.54	37.25	-40.37	39.35	-59.03	-13.00	46.03	Vertical
6	13097.63	35.99	-38.42	38.83	-58.86	-13.00	45.86	Vertical



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

Test Band = NSA DC_5A_n2A_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	3782.18	43.73	-48.24	29.10	-70.67	-13.00	57.67	Horizontal
2	5673.27	42.59	-47.55	32.73	-67.48	-13.00	54.48	Horizontal
3	7564.36	40.87	-45.14	36.72	-62.81	-13.00	49.81	Horizontal
4	9455.45	39.34	-42.67	38.01	-60.58	-13.00	47.58	Horizontal
5	11346.54	37.14	-40.28	39.33	-59.07	-13.00	46.07	Horizontal
6	13237.63	36.55	-38.85	39.15	-58.41	-13.00	45.41	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.18	43.90	-48.24	29.10	-70.50	-13.00	57.50	Vertical
2	5673.27	42.85	-47.55	32.73	-67.22	-13.00	54.22	Vertical
3	7564.36	41.03	-45.14	36.72	-62.65	-13.00	49.65	Vertical
4	9455.45	40.08	-42.67	38.01	-59.84	-13.00	46.84	Vertical
5	11346.54	37.15	-40.28	39.33	-59.06	-13.00	46.06	Vertical
6	13237.63	37.06	-38.85	39.15	-57.90	-13.00	44.90	Vertical



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

Test Band = NSA DC_12A_n2A_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	3702.18	44.16	-48.50	28.98	-70.62	-13.00	57.62	Horizontal
2	5553.27	43.75	-47.66	32.71	-66.46	-13.00	53.46	Horizontal
3	7404.36	43.20	-46.17	36.57	-61.66	-13.00	48.66	Horizontal
4	9255.45	40.11	-43.17	37.83	-60.49	-13.00	47.49	Horizontal
5	11106.54	37.65	-40.36	39.38	-58.59	-13.00	45.59	Horizontal
6	12957.63	37.05	-39.41	38.63	-58.99	-13.00	45.99	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.18	44.22	-48.50	28.98	-70.56	-13.00	57.56	Vertical
2	5553.27	43.32	-47.66	32.71	-66.89	-13.00	53.89	Vertical
3	7404.36	43.13	-46.17	36.57	-61.73	-13.00	48.73	Vertical
4	9255.45	40.65	-43.17	37.83	-59.95	-13.00	46.95	Vertical
5	11106.54	37.21	-40.36	39.38	-59.03	-13.00	46.03	Vertical
6	12957.63	36.53	-39.41	38.63	-59.51	-13.00	46.51	Vertical



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Test Band = NSA DC_12A_n2A_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	3742.18	44.45	-48.37	29.04	-70.14	-13.00	57.14	Horizontal
2	5613.27	43.33	-47.67	32.72	-66.88	-13.00	53.88	Horizontal
3	7484.36	41.92	-46.17	36.76	-62.75	-13.00	49.75	Horizontal
4	9355.45	40.39	-42.97	37.92	-59.92	-13.00	46.92	Horizontal
5	11226.54	38.04	-40.37	39.35	-58.24	-13.00	45.24	Horizontal
6	13097.63	36.39	-38.42	38.83	-58.46	-13.00	45.46	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.18	44.29	-48.37	29.04	-70.30	-13.00	57.30	Vertical
2	5613.27	43.43	-47.67	32.72	-66.78	-13.00	53.78	Vertical
3	7484.36	42.06	-46.17	36.76	-62.61	-13.00	49.61	Vertical
4	9355.45	40.50	-42.97	37.92	-59.81	-13.00	46.81	Vertical
5	11226.54	38.19	-40.37	39.35	-58.09	-13.00	45.09	Vertical
6	13097.63	36.98	-38.42	38.83	-57.87	-13.00	44.87	Vertical



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Test Band = NSA DC_12A_n2A_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	3782.18	44.20	-48.24	29.10	-70.20	-13.00	57.20	Horizontal
2	5673.27	42.87	-47.55	32.73	-67.20	-13.00	54.20	Horizontal
3	7564.36	40.99	-45.14	36.72	-62.69	-13.00	49.69	Horizontal
4	9455.45	39.76	-42.67	38.01	-60.16	-13.00	47.16	Horizontal
5	11346.54	37.15	-40.28	39.33	-59.06	-13.00	46.06	Horizontal
6	13237.63	36.33	-38.85	39.15	-58.63	-13.00	45.63	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.18	43.77	-48.24	29.10	-70.63	-13.00	57.63	Vertical
2	5673.27	43.11	-47.55	32.73	-66.96	-13.00	53.96	Vertical
3	7564.36	40.89	-45.14	36.72	-62.79	-13.00	49.79	Vertical
4	9455.45	39.79	-42.67	38.01	-60.13	-13.00	47.13	Vertical
5	11346.54	37.72	-40.28	39.33	-58.49	-13.00	45.49	Vertical
6	13237.63	36.57	-38.85	39.15	-58.39	-13.00	45.39	Vertical



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Test Band = NSA DC_30A_n2A_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	4610.68	44.14	-48.00	30.57	-68.55	-40.00	28.55	Horizontal
2	6916.02	43.78	-46.71	35.42	-62.77	-40.00	22.77	Horizontal
3	9221.36	39.64	-43.40	37.80	-61.22	-40.00	21.22	Horizontal
4	11526.7	37.28	-39.98	39.29	-58.67	-40.00	18.67	Horizontal
5	13832.04	36.13	-38.92	40.51	-57.53	-40.00	17.53	Horizontal
6	16137.38	36.29	-37.97	38.30	-58.64	-40.00	18.64	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4610.68	45.05	-48.00	30.57	-67.64	-40.00	27.64	Vertical
2	6916.02	43.11	-46.71	35.42	-63.44	-40.00	23.44	Vertical
3	9221.36	39.02	-43.40	37.80	-61.84	-40.00	21.84	Vertical
4	11526.7	37.68	-39.98	39.29	-58.27	-40.00	18.27	Vertical
5	13832.04	36.82	-38.92	40.51	-56.84	-40.00	16.84	Vertical
6	16137.38	36.33	-37.97	38.30	-58.60	-40.00	18.60	Vertical



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Test Band = NSA DC_30A_n2A_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	4615.68	44.68	-47.99	30.58	-68.00	-40.00	28.00	Horizontal
2	6923.52	43.17	-46.70	35.43	-63.36	-40.00	23.36	Horizontal
3	9231.36	40.38	-43.33	37.81	-60.40	-40.00	20.40	Horizontal
4	11539.2	37.59	-39.95	39.29	-58.32	-40.00	18.32	Horizontal
5	13847.04	36.86	-38.88	40.55	-56.73	-40.00	16.73	Horizontal
6	16154.88	36.48	-37.91	38.31	-58.38	-40.00	18.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4615.68	44.21	-47.99	30.58	-68.47	-40.00	28.47	Vertical
2	6923.52	43.14	-46.70	35.43	-63.39	-40.00	23.39	Vertical
3	9231.36	40.31	-43.33	37.81	-60.47	-40.00	20.47	Vertical
4	11539.2	37.42	-39.95	39.29	-58.49	-40.00	18.49	Vertical
5	13847.04	37.04	-38.88	40.55	-56.55	-40.00	16.55	Vertical
6	16154.88	36.08	-37.91	38.31	-58.78	-40.00	18.78	Vertical



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Test Band = NSA DC_30A_n2A_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	4620.68	44.24	-47.99	30.59	-68.42	-40.00	28.42	Horizontal
2	6931.02	43.28	-46.69	35.45	-63.22	-40.00	23.22	Horizontal
3	9241.32	39.91	-43.27	37.82	-60.80	-40.00	20.80	Horizontal
4	11551.7	38.59	-39.91	39.29	-57.29	-40.00	17.29	Horizontal
5	13862.04	37.27	-38.84	40.58	-56.24	-40.00	16.24	Horizontal
6	16172.38	36.69	-37.85	38.32	-58.10	-40.00	18.10	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	4620.68	43.92	-47.99	30.59	-68.74	-40.00	28.74	Vertical
2	6931.02	42.76	-46.69	35.45	-63.74	-40.00	23.74	Vertical
3	9241.32	39.75	-43.27	37.82	-60.96	-40.00	20.96	Vertical
4	11551.7	37.74	-39.91	39.29	-58.14	-40.00	18.14	Vertical
5	13862.04	37.29	-38.84	40.58	-56.22	-40.00	16.22	Vertical
6	16172.38	36.13	-37.85	38.32	-58.66	-40.00	18.66	Vertical



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Test Band = NSA DC_66A_n2A_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	3702.18	44.18	-48.50	28.98	-70.60	-13.00	57.60	Horizontal
2	5553.27	43.72	-47.66	32.71	-66.49	-13.00	53.49	Horizontal
3	7404.36	42.53	-46.17	36.57	-62.33	-13.00	49.33	Horizontal
4	9255.45	39.84	-43.17	37.83	-60.76	-13.00	47.76	Horizontal
5	11106.54	37.48	-40.36	39.38	-58.76	-13.00	45.76	Horizontal
6	12957.63	36.14	-39.41	38.63	-59.90	-13.00	46.90	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3702.18	44.17	-48.50	28.98	-70.61	-13.00	57.61	Vertical
2	5553.27	43.80	-47.66	32.71	-66.41	-13.00	53.41	Vertical
3	7404.36	43.09	-46.17	36.57	-61.77	-13.00	48.77	Vertical
4	9255.45	39.87	-43.17	37.83	-60.73	-13.00	47.73	Vertical
5	11106.54	37.38	-40.36	39.38	-58.86	-13.00	45.86	Vertical
6	12957.63	36.64	-39.41	38.63	-59.40	-13.00	46.40	Vertical



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Test Band = NSA DC_66A_n2A_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	3742.18	44.05	-48.37	29.04	-70.54	-13.00	57.54	Horizontal
2	5613.27	43.17	-47.67	32.72	-67.04	-13.00	54.04	Horizontal
3	7484.36	42.37	-46.17	36.76	-62.30	-13.00	49.30	Horizontal
4	9355.45	40.37	-42.97	37.92	-59.94	-13.00	46.94	Horizontal
5	11226.54	37.26	-40.37	39.35	-59.02	-13.00	46.02	Horizontal
6	13097.63	36.15	-38.42	38.83	-58.70	-13.00	45.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3742.18	44.31	-48.37	29.04	-70.28	-13.00	57.28	Vertical
2	5613.27	43.47	-47.67	32.72	-66.74	-13.00	53.74	Vertical
3	7484.36	41.13	-46.17	36.76	-63.54	-13.00	50.54	Vertical
4	9355.45	40.17	-42.97	37.92	-60.14	-13.00	47.14	Vertical
5	11226.54	37.27	-40.37	39.35	-59.01	-13.00	46.01	Vertical
6	13097.63	36.54	-38.42	38.83	-58.31	-13.00	45.31	Vertical



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Test Band = NSA DC_66A_n2A_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	3782.18	44.22	-48.24	29.10	-70.18	-13.00	57.18	Horizontal
2	5673.27	43.47	-47.55	32.73	-66.60	-13.00	53.60	Horizontal
3	7564.36	41.45	-45.14	36.72	-62.23	-13.00	49.23	Horizontal
4	9455.45	39.12	-42.67	38.01	-60.80	-13.00	47.80	Horizontal
5	11346.54	37.33	-40.28	39.33	-58.88	-13.00	45.88	Horizontal
6	13237.63	36.24	-38.85	39.15	-58.72	-13.00	45.72	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3782.18	44.16	-48.24	29.10	-70.24	-13.00	57.24	Vertical
2	5673.27	43.26	-47.55	32.73	-66.81	-13.00	53.81	Vertical
3	7564.36	41.06	-45.14	36.72	-62.62	-13.00	49.62	Vertical
4	9455.45	39.67	-42.67	38.01	-60.25	-13.00	47.25	Vertical
5	11346.54	37.64	-40.28	39.33	-58.57	-13.00	45.57	Vertical
6	13237.63	36.68	-38.85	39.15	-58.28	-13.00	45.28	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



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)	Verdict
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.900000	-0.001011	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VN	NT	-2.000000	-0.001064	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.400000	-0.000213	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VH	NT	3.500000	0.001862	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VN	NT	3.800000	0.002021	PASS
N2	15	20	CP-QPSK	M	Outer_Full	VL	NT	1.900000	0.001011	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Band width	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-30	-4.100000	-0.002181	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-20	-5.600000	-0.002979	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	-10	-0.100000	-0.000053	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	0	-3.700000	-0.001968	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	10	-2.300000	-0.001223	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	20	0.700000	0.000372	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	30	-4.700000	-0.002500	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	40	-5.100000	-0.002713	PASS
N2	15	20	DFT-PI2BPSK	M	Outer_Full	NV	50	-5.500000	-0.002926	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-30	2.400000	0.001277	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-20	1.800000	0.000957	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	-10	4.400000	0.002340	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	0	3.700000	0.001968	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	10	2.100000	0.001117	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	20	2.100000	0.001117	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	30	3.100000	0.001649	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	40	3.400000	0.001809	PASS
N2	15	20	CP-QPSK	M	Outer_Full	NV	50	1.500000	0.000798	PASS

---End of Attachment---



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