

Report No.: SEWM2311000473RG02

Rev.: 01

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# Appendix B.29

## NR Band n12



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## Effective (Isotropic) Radiated Power Output Data for SA

### Test ResultAnt7

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	ERP (dBm)	Limit (dBm)	Verdict
N12	15	5	DFT-PI2BPSK	L	Inner_1RB_Left	23.72	12.92	34.77	PASS
N12	15	5	DFT-PI2BPSK	L	Inner_1RB_Right	23.76	12.96	34.77	PASS
N12	15	5	DFT-PI2BPSK	L	Outer_Full	23.34	12.54	34.77	PASS
N12	15	5	DFT-QPSK	L	Inner_1RB_Left	24.13	13.33	34.77	PASS
N12	15	5	DFT-QPSK	L	Inner_1RB_Right	23.82	13.02	34.77	PASS
N12	15	5	DFT-QPSK	L	Outer_Full	22.85	12.05	34.77	PASS
N12	15	5	DFT-16QAM	L	Inner_1RB_Left	22.53	11.73	34.77	PASS
N12	15	5	DFT-16QAM	L	Inner_1RB_Right	22.48	11.68	34.77	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	21.9	11.1	34.77	PASS
N12	15	5	DFT-64QAM	L	Inner_1RB_Left	21.34	10.54	34.77	PASS
N12	15	5	DFT-64QAM	L	Inner_1RB_Right	21.25	10.45	34.77	PASS
N12	15	5	DFT-64QAM	L	Outer_Full	21.39	10.59	34.77	PASS
N12	15	5	DFT-256QAM	L	Inner_1RB_Left	19.39	8.59	34.77	PASS
N12	15	5	DFT-256QAM	L	Inner_1RB_Right	19.3	8.5	34.77	PASS
N12	15	5	DFT-256QAM	L	Outer_Full	19.31	8.51	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Inner_1RB_Left	23.77	12.97	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Inner_1RB_Right	23.89	13.09	34.77	PASS
N12	15	5	DFT-PI2BPSK	M	Outer_Full	23.35	12.55	34.77	PASS
N12	15	5	DFT-QPSK	M	Inner_1RB_Left	23.87	13.07	34.77	PASS
N12	15	5	DFT-QPSK	M	Inner_1RB_Right	23.93	13.13	34.77	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	22.98	12.18	34.77	PASS
N12	15	5	DFT-16QAM	M	Inner_1RB_Left	22.48	11.68	34.77	PASS
N12	15	5	DFT-16QAM	M	Inner_1RB_Right	22.61	11.81	34.77	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	21.86	11.06	34.77	PASS
N12	15	5	DFT-64QAM	M	Inner_1RB_Left	21.12	10.32	34.77	PASS
N12	15	5	DFT-64QAM	M	Inner_1RB_Right	21.28	10.48	34.77	PASS
N12	15	5	DFT-64QAM	M	Outer_Full	21.51	10.71	34.77	PASS
N12	15	5	DFT-256QAM	M	Inner_1RB_Left	19.43	8.63	34.77	PASS
N12	15	5	DFT-256QAM	M	Inner_1RB_Right	19.35	8.55	34.77	PASS
N12	15	5	DFT-256QAM	M	Outer_Full	19.3	8.5	34.77	PASS
N12	15	5	DFT-PI2BPSK	H	Inner_1RB_Left	23.78	12.98	34.77	PASS



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Table with 10 columns: Test ID, Modulation, Bandwidth, Modulation Type, Modulation Order, Test Method, SNR, BER, Error Rate, Result. Rows include various DFT modulation types (PI2BPSK, QPSK, 16QAM, 64QAM, 256QAM) under different conditions (H/L/M) and test methods (Inner/Outer Full).



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Table with 10 columns: Item No., Lot No., Sample No., Modulation, Modulation Type, Test Method, SNR, BER, BER (95%), and Result. It contains 40 rows of test data for various modulation schemes like DFT-16QAM, DFT-64QAM, DFT-256QAM, DFT-PI2BPSK, and DFT-QPSK.



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Table with 10 columns: Item ID, Parameter 1, Parameter 2, Modulation, Mode, Location, Value 1, Value 2, Value 3, Result. Rows include various modulation types like DFT-PI2BPSK, DFT-QPSK, DFT-16QAM, DFT-64QAM, DFT-256QAM for both M and H modes across Inner and Outer Full locations.



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## Peak-to-Average Ratio for SA

## Peak-to-Average Ratio(PAPR)

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	DutyCycle	Factor	Result	Limit	Verdict
N12	15	15	DFT-256QAM	L	Outer_Full	100%	0.00	8.97	≤13	PASS
N12	15	15	CP-256QAM	L	Outer_Full	100%	0.00	9.34	≤13	PASS
N12	15	15	DFT-256QAM	M	Outer_Full	100%	0.00	8.98	≤13	PASS
N12	15	15	CP-256QAM	M	Outer_Full	100%	0.00	7.98	≤13	PASS
N12	15	15	DFT-256QAM	H	Outer_Full	100%	0.00	8.95	≤13	PASS
N12	15	15	CP-256QAM	H	Outer_Full	100%	0.00	9.22	≤13	PASS



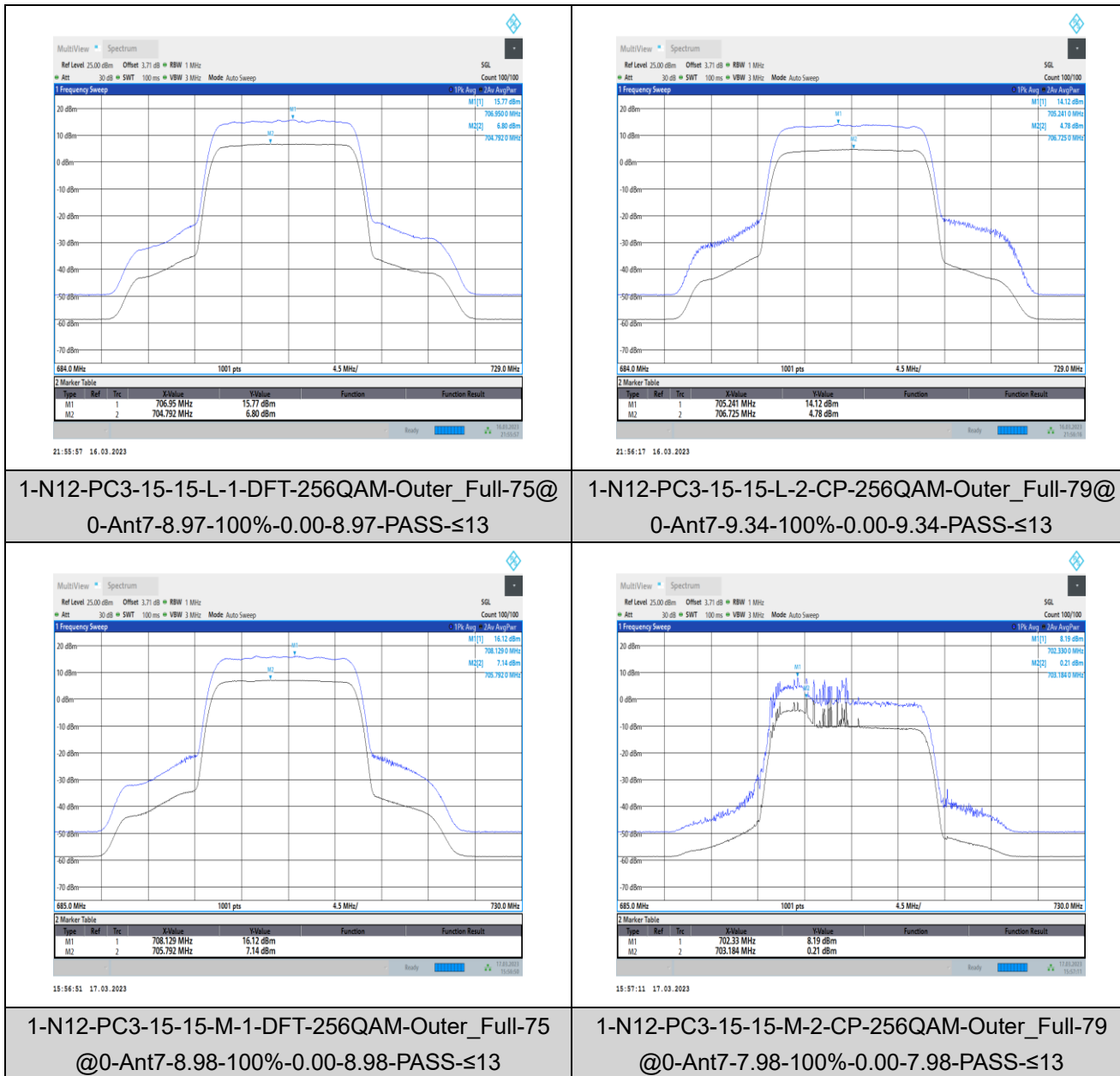
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Test Graphs



1-N12-PC3-15-15-L-1-DFT-256QAM-Outer\_Full-75@  
 0-Ant7-8.97-100%-0.00-8.97-PASS-≤13

1-N12-PC3-15-15-L-2-CP-256QAM-Outer\_Full-79@  
 0-Ant7-9.34-100%-0.00-9.34-PASS-≤13

1-N12-PC3-15-15-M-1-DFT-256QAM-Outer\_Full-75  
 @0-Ant7-8.98-100%-0.00-8.98-PASS-≤13

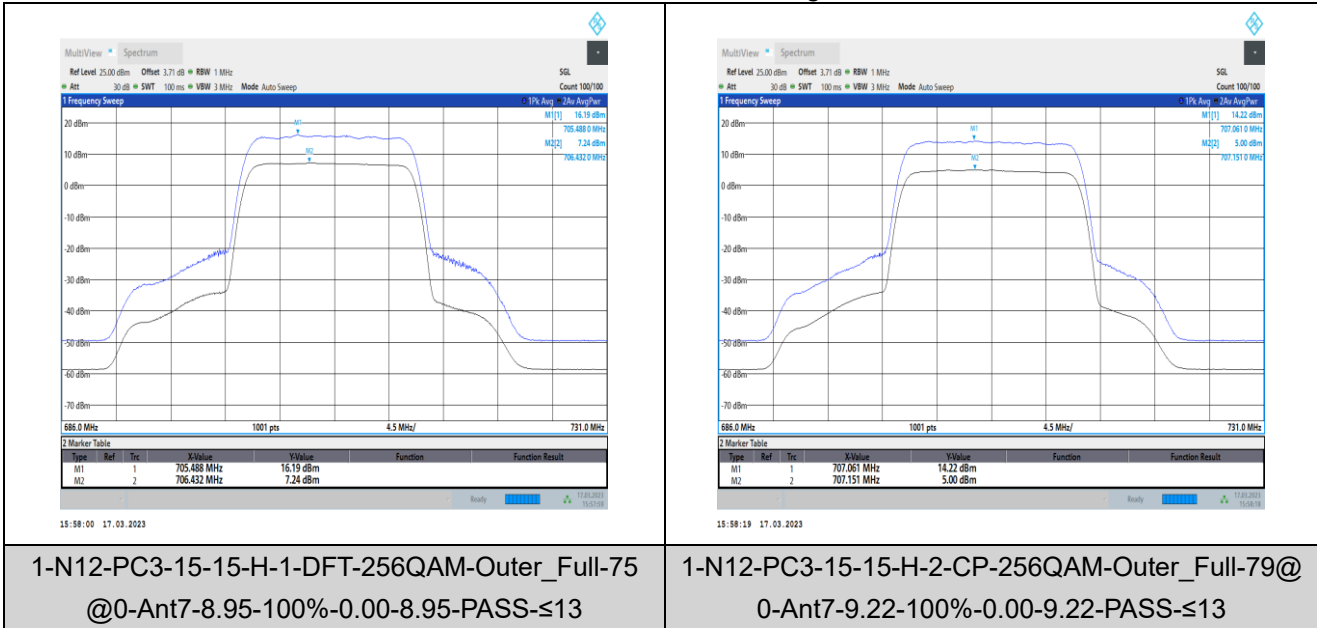
1-N12-PC3-15-15-M-2-CP-256QAM-Outer\_Full-79  
 @0-Ant7-7.98-100%-0.00-7.98-PASS-≤13



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1-N12-PC3-15-15-H-1-DFT-256QAM-Outer\_Full-75  
@0-Ant7-8.95-100%-0.00-8.95-PASS-≤13

1-N12-PC3-15-15-H-2-CP-256QAM-Outer\_Full-79@  
0-Ant7-9.22-100%-0.00-9.22-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
N12	15	5	DFT-QPSK	L	Outer_Full	4.475	4.780	PASS
N12	15	5	DFT-PI2BPSK	L	Outer_Full	4.478	4.800	PASS
N12	15	5	DFT-16QAM	L	Outer_Full	4.477	4.820	PASS
N12	15	5	DFT-64QAM	L	Outer_Full	4.468	4.810	PASS
N12	15	5	DFT-256QAM	L	Outer_Full	4.469	4.830	PASS
N12	15	5	CP-QPSK	L	Outer_Full	4.464	4.830	PASS
N12	15	5	CP-16QAM	L	Outer_Full	4.475	4.870	PASS
N12	15	5	CP-64QAM	L	Outer_Full	4.473	4.830	PASS
N12	15	5	CP-256QAM	L	Outer_Full	4.478	4.770	PASS
N12	15	5	DFT-QPSK	M	Outer_Full	4.478	4.780	PASS
N12	15	5	DFT-PI2BPSK	M	Outer_Full	4.48	4.800	PASS
N12	15	5	DFT-16QAM	M	Outer_Full	4.476	4.830	PASS
N12	15	5	DFT-64QAM	M	Outer_Full	4.461	4.800	PASS
N12	15	5	DFT-256QAM	M	Outer_Full	4.452	4.770	PASS
N12	15	5	CP-QPSK	M	Outer_Full	4.473	4.830	PASS
N12	15	5	CP-16QAM	M	Outer_Full	4.481	4.820	PASS
N12	15	5	CP-64QAM	M	Outer_Full	4.469	4.770	PASS
N12	15	5	CP-256QAM	M	Outer_Full	4.474	4.820	PASS
N12	15	5	DFT-QPSK	H	Outer_Full	4.48	4.810	PASS
N12	15	5	DFT-PI2BPSK	H	Outer_Full	4.472	4.780	PASS
N12	15	5	DFT-16QAM	H	Outer_Full	4.476	4.820	PASS
N12	15	5	DFT-64QAM	H	Outer_Full	4.459	4.840	PASS
N12	15	5	DFT-256QAM	H	Outer_Full	4.464	4.800	PASS
N12	15	5	CP-QPSK	H	Outer_Full	4.462	4.800	PASS
N12	15	5	CP-16QAM	H	Outer_Full	4.461	4.790	PASS
N12	15	5	CP-64QAM	H	Outer_Full	4.472	4.790	PASS
N12	15	5	CP-256QAM	H	Outer_Full	4.479	4.820	PASS
N12	15	10	DFT-QPSK	L	Outer_Full	8.893	9.400	PASS
N12	15	10	DFT-PI2BPSK	L	Outer_Full	8.918	9.340	PASS
N12	15	10	DFT-16QAM	L	Outer_Full	8.911	9.380	PASS



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N12	15	10	DFT-64QAM	L	Outer_Full	8.898	9.320	PASS
N12	15	10	DFT-256QAM	L	Outer_Full	8.908	9.340	PASS
N12	15	10	CP-QPSK	L	Outer_Full	9.245	9.780	PASS
N12	15	10	CP-16QAM	L	Outer_Full	9.261	9.740	PASS
N12	15	10	CP-64QAM	L	Outer_Full	9.281	9.800	PASS
N12	15	10	CP-256QAM	L	Outer_Full	9.256	9.740	PASS
N12	15	10	DFT-QPSK	M	Outer_Full	8.919	9.380	PASS
N12	15	10	DFT-Pi2BPSK	M	Outer_Full	8.936	9.380	PASS
N12	15	10	DFT-16QAM	M	Outer_Full	8.885	9.380	PASS
N12	15	10	DFT-64QAM	M	Outer_Full	8.899	9.300	PASS
N12	15	10	DFT-256QAM	M	Outer_Full	8.919	9.340	PASS
N12	15	10	CP-QPSK	M	Outer_Full	9.26	9.720	PASS
N12	15	10	CP-16QAM	M	Outer_Full	9.258	9.700	PASS
N12	15	10	CP-64QAM	M	Outer_Full	9.285	9.780	PASS
N12	15	10	CP-256QAM	M	Outer_Full	9.264	9.740	PASS
N12	15	10	DFT-QPSK	H	Outer_Full	8.924	9.420	PASS
N12	15	10	DFT-Pi2BPSK	H	Outer_Full	8.877	9.400	PASS
N12	15	10	DFT-16QAM	H	Outer_Full	8.9	9.420	PASS
N12	15	10	DFT-64QAM	H	Outer_Full	8.898	9.360	PASS
N12	15	10	DFT-256QAM	H	Outer_Full	8.898	9.360	PASS
N12	15	10	CP-QPSK	H	Outer_Full	9.274	9.680	PASS
N12	15	10	CP-16QAM	H	Outer_Full	9.258	9.760	PASS
N12	15	10	CP-64QAM	H	Outer_Full	9.287	9.740	PASS
N12	15	10	CP-256QAM	H	Outer_Full	9.264	9.760	PASS
N12	15	15	DFT-QPSK	L	Outer_Full	13.377	13.980	PASS
N12	15	15	DFT-Pi2BPSK	L	Outer_Full	13.363	14.100	PASS
N12	15	15	DFT-16QAM	L	Outer_Full	13.406	14.100	PASS
N12	15	15	DFT-64QAM	L	Outer_Full	13.402	14.070	PASS
N12	15	15	DFT-256QAM	L	Outer_Full	13.364	14.100	PASS
N12	15	15	CP-QPSK	L	Outer_Full	14.064	14.730	PASS
N12	15	15	CP-16QAM	L	Outer_Full	14.141	14.820	PASS
N12	15	15	CP-64QAM	L	Outer_Full	14.11	14.790	PASS
N12	15	15	CP-256QAM	L	Outer_Full	14.045	14.730	PASS
N12	15	15	DFT-QPSK	M	Outer_Full	13.403	14.100	PASS
N12	15	15	DFT-Pi2BPSK	M	Outer_Full	13.4	14.100	PASS
N12	15	15	DFT-16QAM	M	Outer_Full	13.386	14.100	PASS
N12	15	15	DFT-64QAM	M	Outer_Full	13.426	14.100	PASS



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N12	15	15	DFT-256QAM	M	Outer_Full	13.393	14.130	PASS
N12	15	15	CP-QPSK	M	Outer_Full	14.072	14.730	PASS
N12	15	15	CP-16QAM	M	Outer_Full	14.121	14.880	PASS
N12	15	15	CP-64QAM	M	Outer_Full	14.103	14.820	PASS
N12	15	15	CP-256QAM	M	Outer_Full	14.125	14.730	PASS
N12	15	15	DFT-QPSK	H	Outer_Full	13.371	14.100	PASS
N12	15	15	DFT-PI2BPSK	H	Outer_Full	13.392	14.130	PASS
N12	15	15	DFT-16QAM	H	Outer_Full	13.407	14.070	PASS
N12	15	15	DFT-64QAM	H	Outer_Full	13.406	14.070	PASS
N12	15	15	DFT-256QAM	H	Outer_Full	13.389	14.100	PASS
N12	15	15	CP-QPSK	H	Outer_Full	14.08	14.760	PASS
N12	15	15	CP-16QAM	H	Outer_Full	14.117	14.910	PASS
N12	15	15	CP-64QAM	H	Outer_Full	14.073	14.880	PASS
N12	15	15	CP-256QAM	H	Outer_Full	14.072	14.790	PASS



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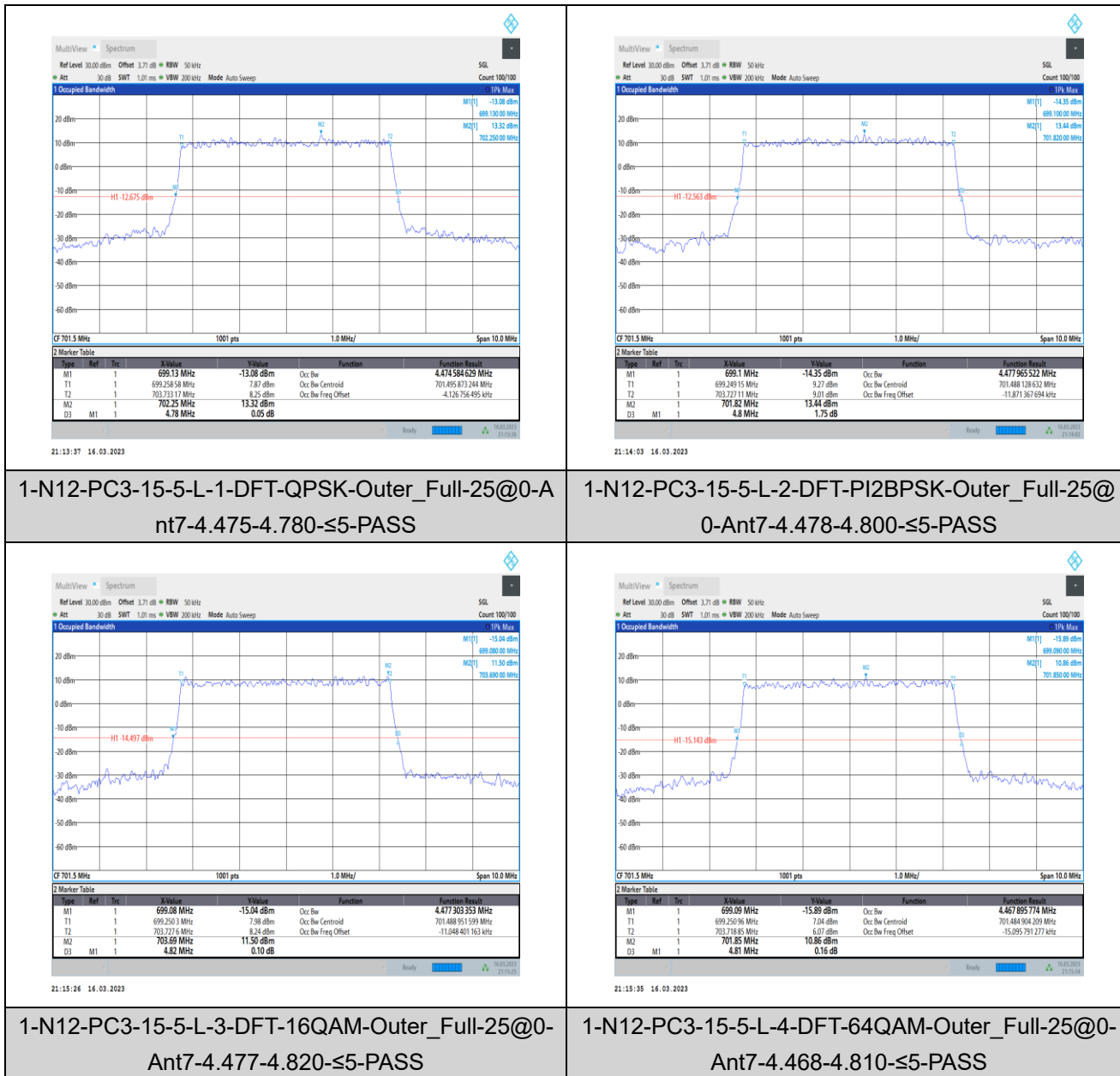
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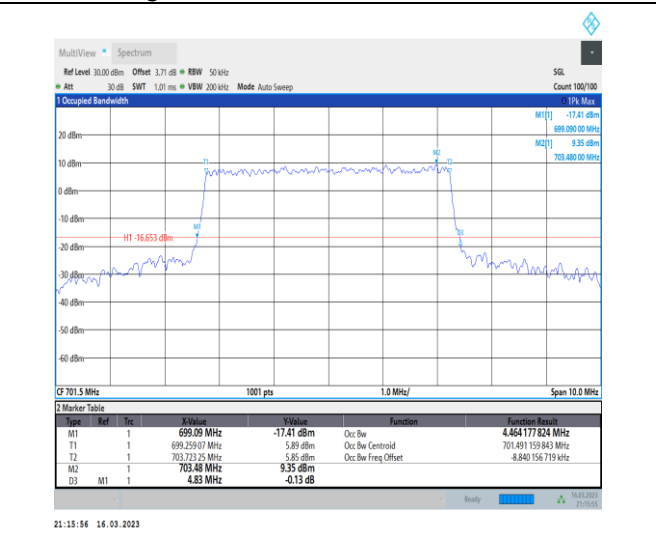
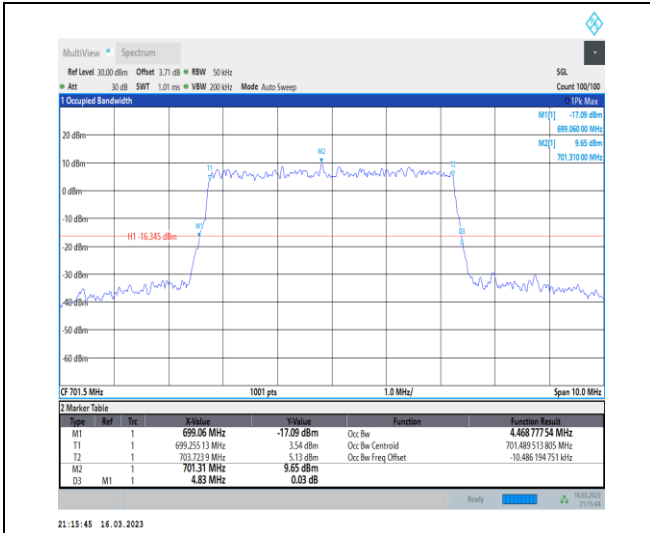
Test Graphs



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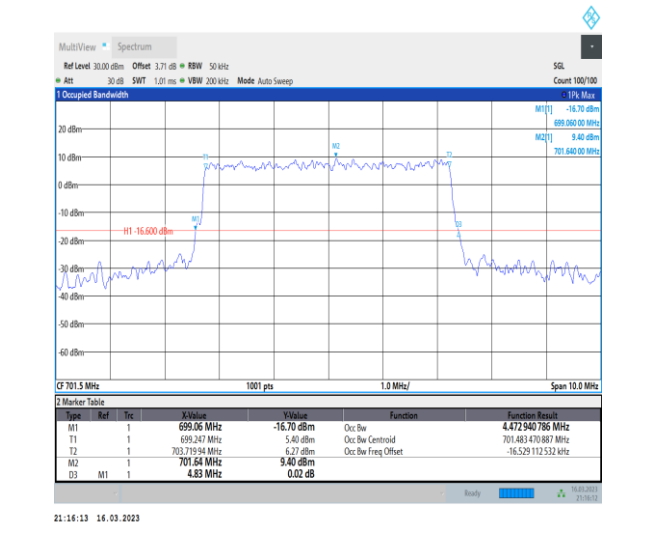
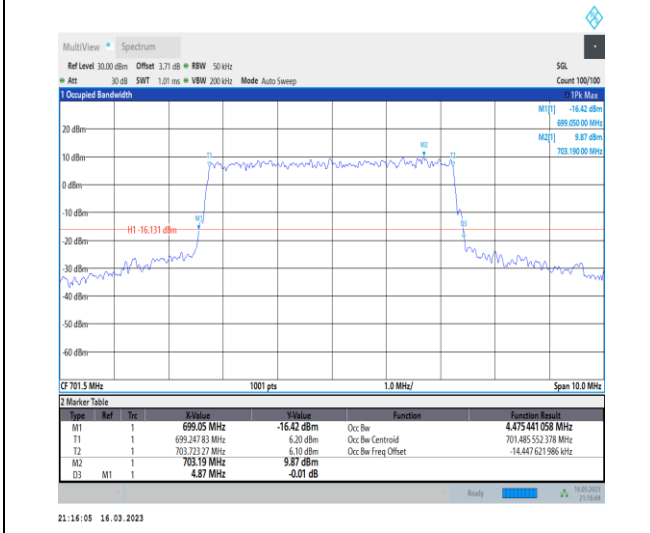
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1-N12-PC3-15-5-L-5-DFT-256QAM-Outer\_Full-25@0-Ant7-4.469-4.830-≤5-PASS

1-N12-PC3-15-5-L-6-CP-QPSK-Outer\_Full-25@0-An t7-4.464-4.830-≤5-PASS



1-N12-PC3-15-5-L-7-CP-16QAM-Outer\_Full-25@0-Ant7-4.475-4.870-≤5-PASS

1-N12-PC3-15-5-L-8-CP-64QAM-Outer\_Full-25@0-Ant7-4.473-4.830-≤5-PASS



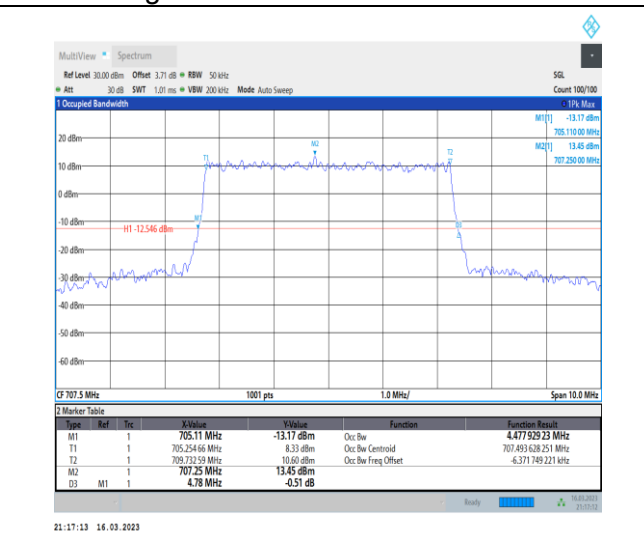
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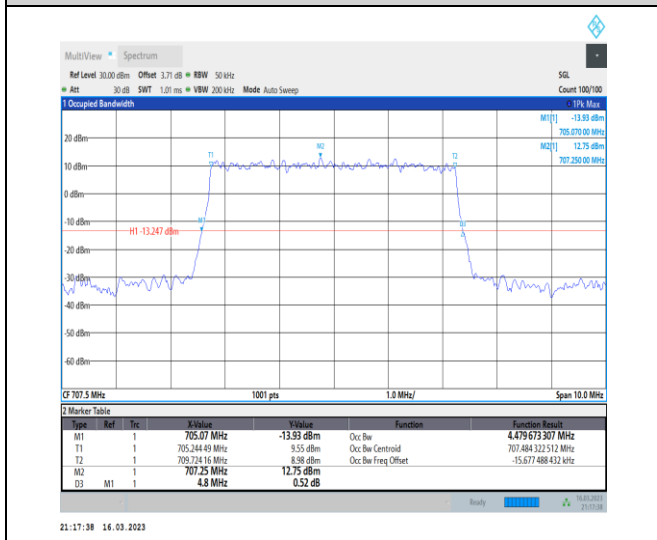
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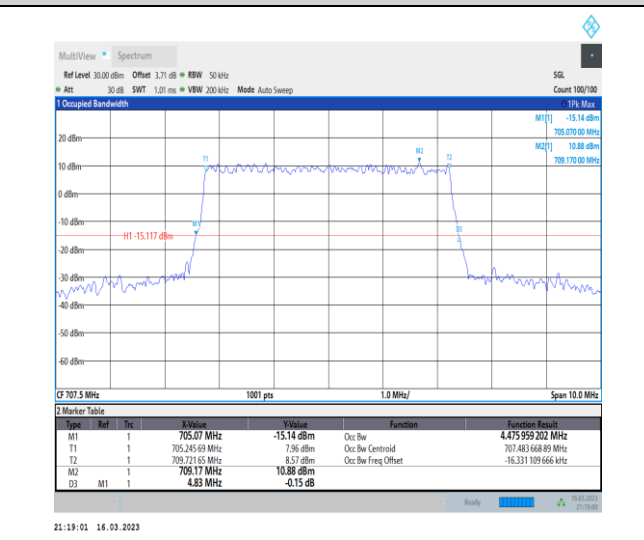
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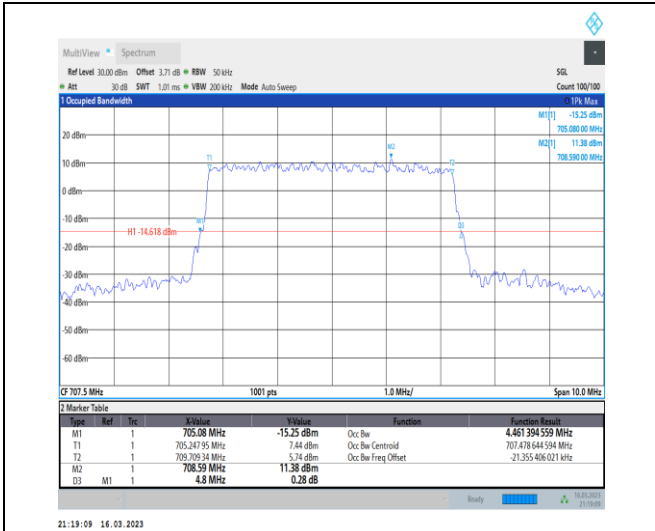
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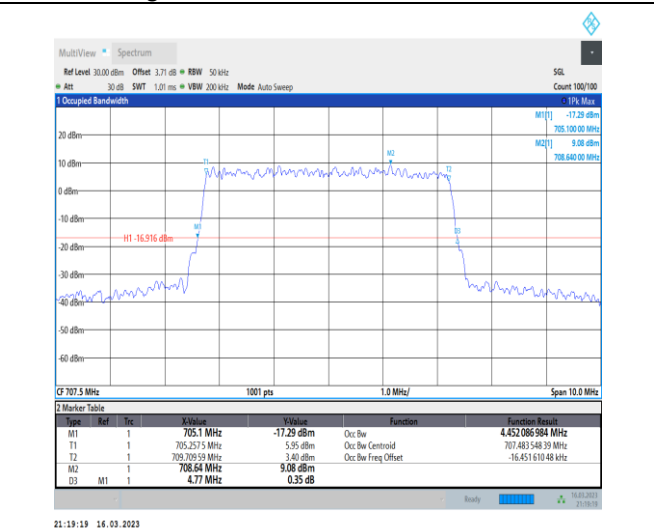
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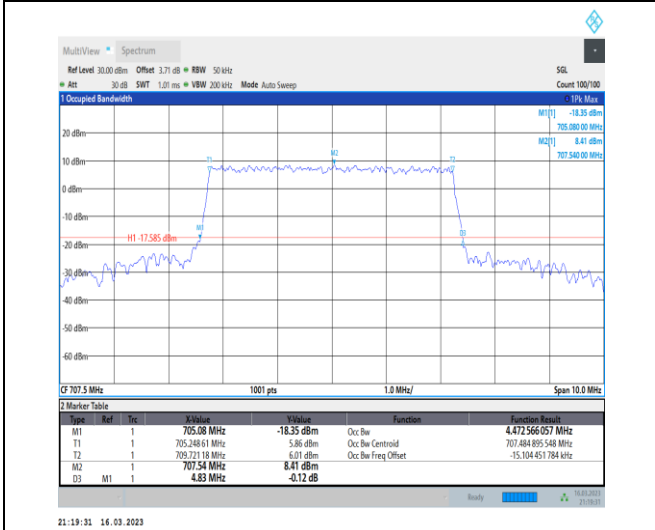
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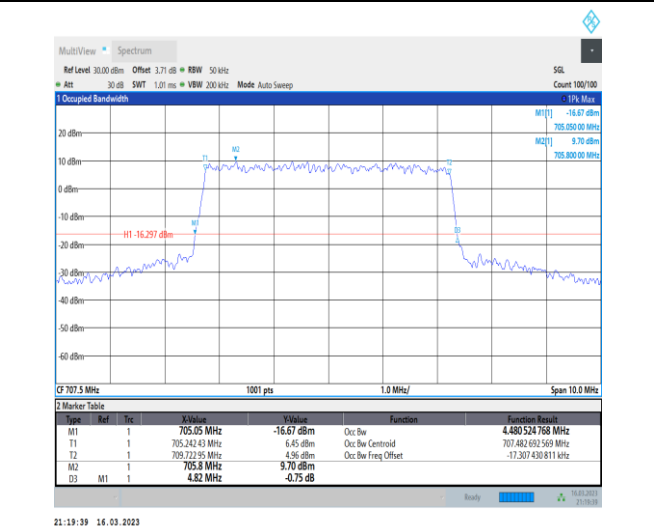
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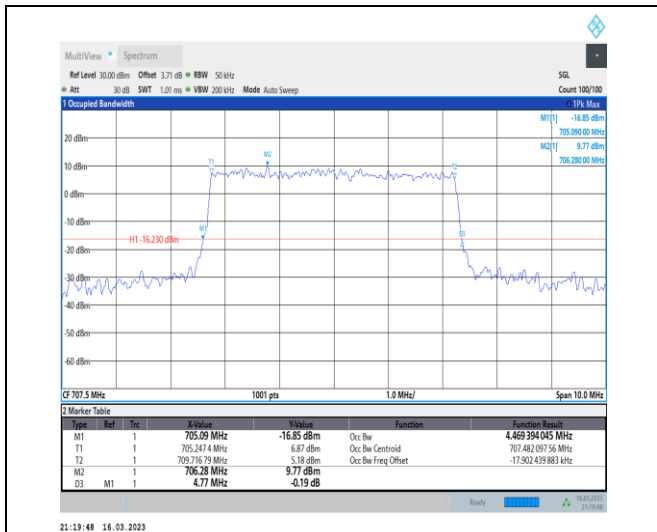
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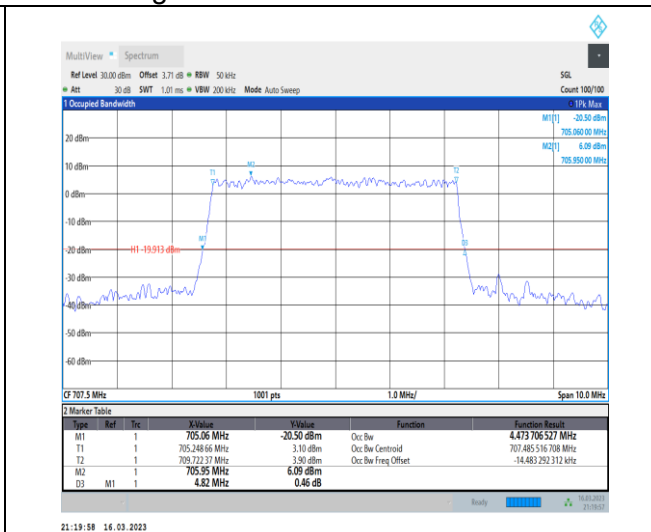
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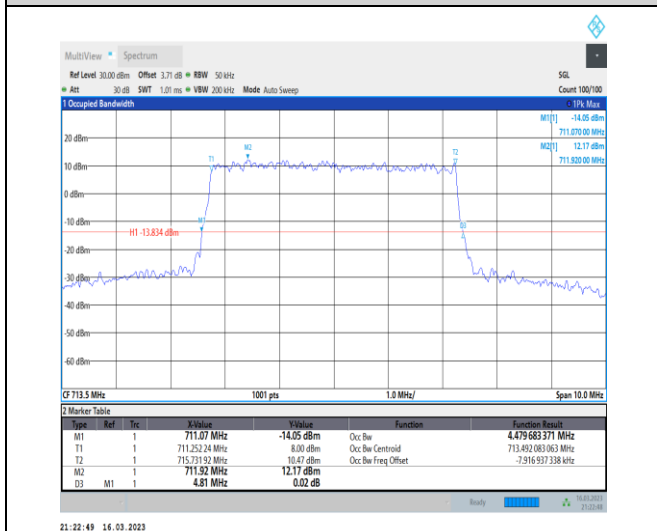
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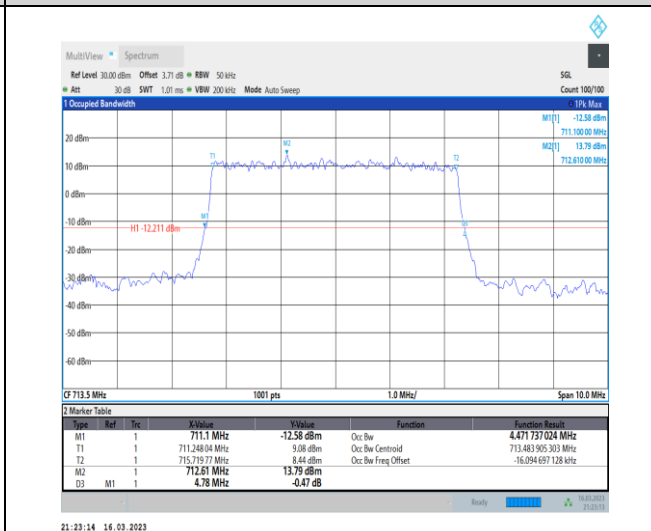
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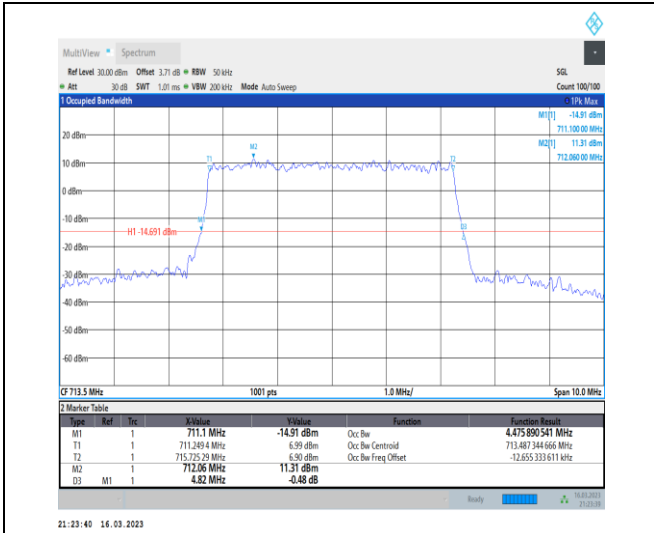


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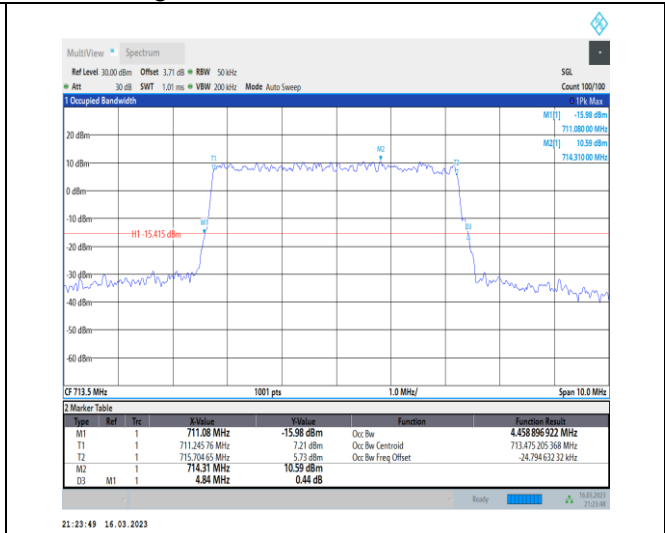
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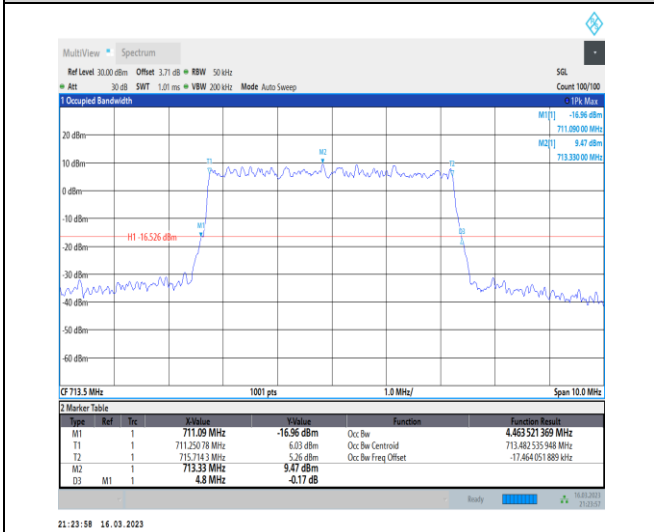




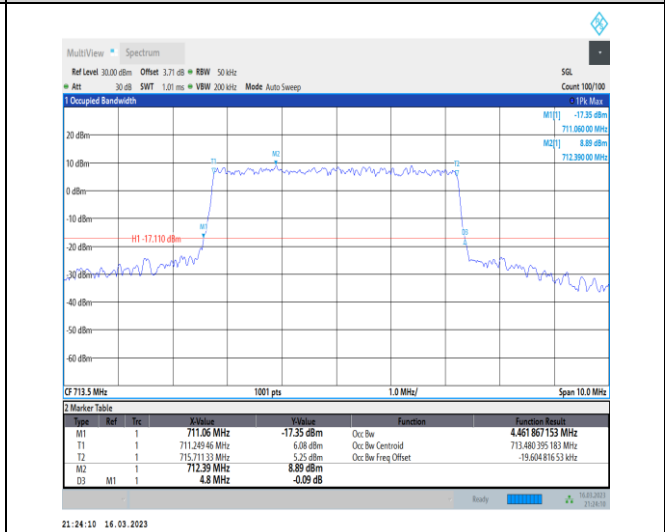
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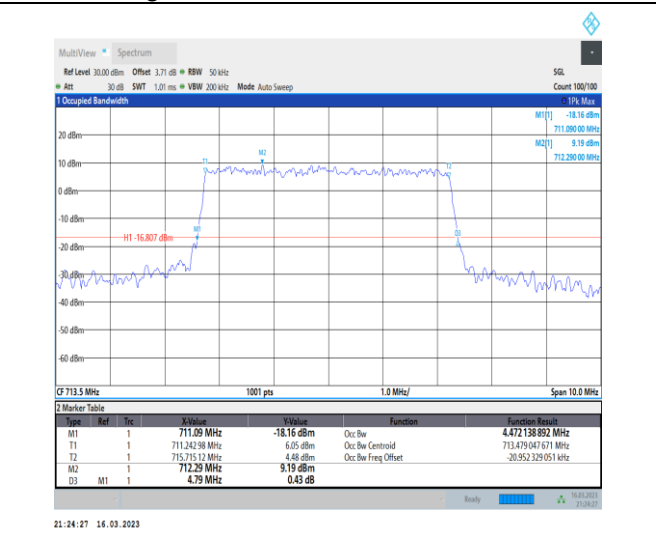
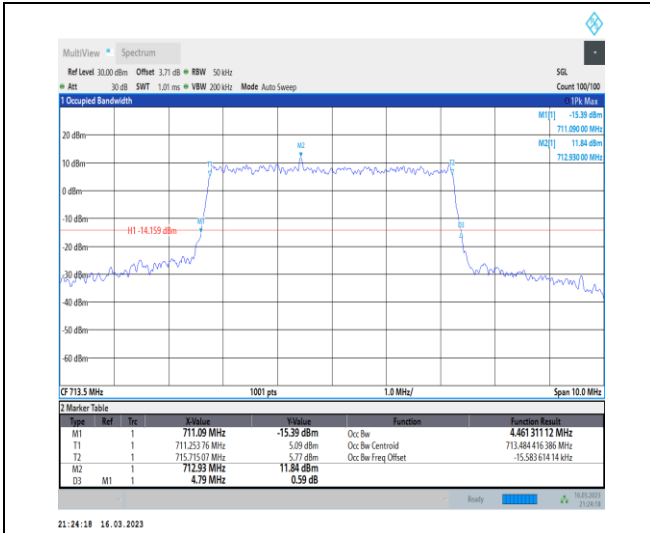
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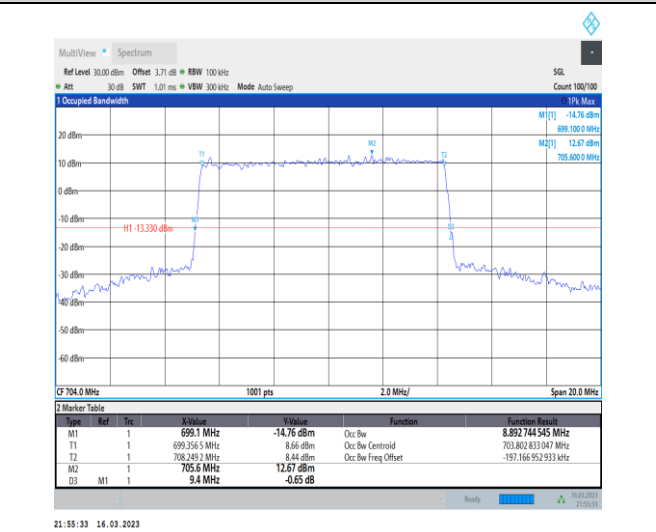
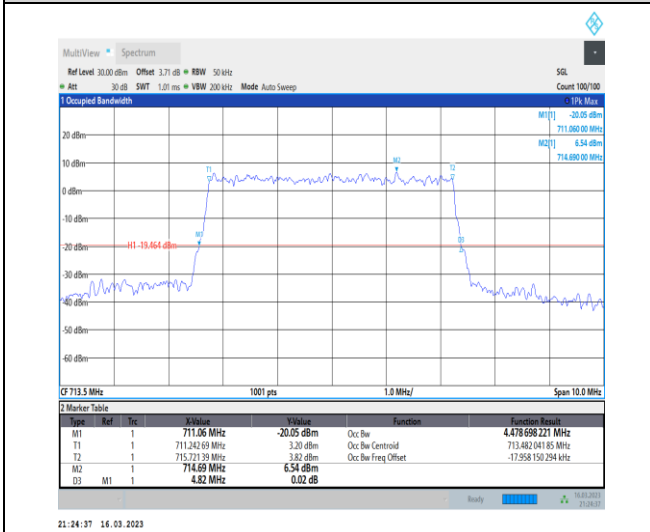
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1-N12-PC3-15-5-H-8-CP-64QAM-Outer\_Full-25@0-Ant7-4.472-4.790-≤5-PASS



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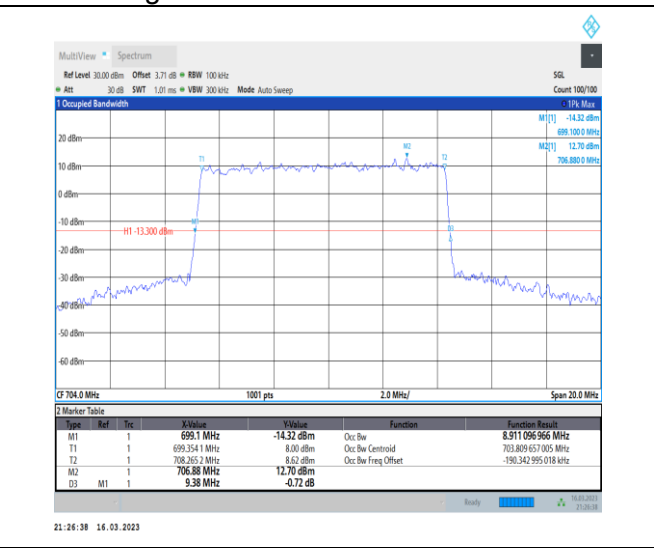
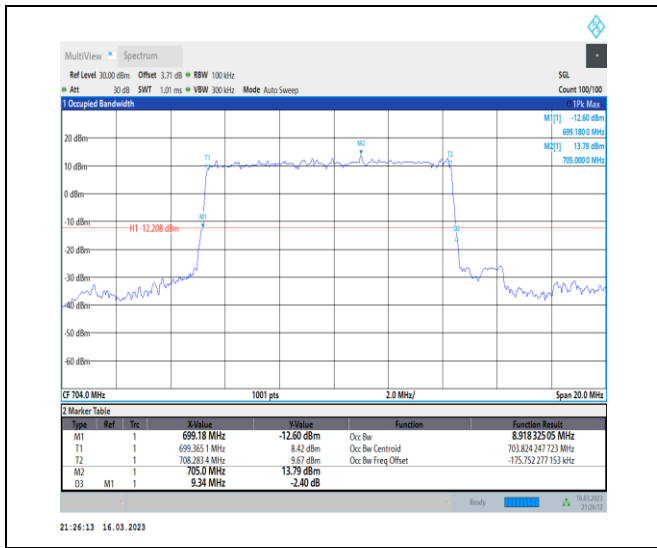
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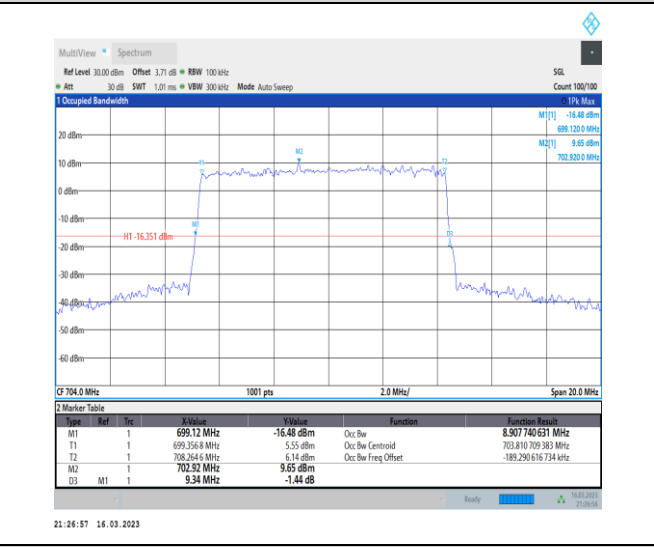
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1-N12-PC3-15-10-L-2-DFT-PI2BPSK-Outer\_Full-50 @0-Ant7-8.918-9.340-≤10-PASS

1-N12-PC3-15-10-L-3-DFT-16QAM-Outer\_Full-50 @0-Ant7-8.911-9.380-≤10-PASS



1-N12-PC3-15-10-L-4-DFT-64QAM-Outer\_Full-50 @0-Ant7-8.898-9.320-≤10-PASS

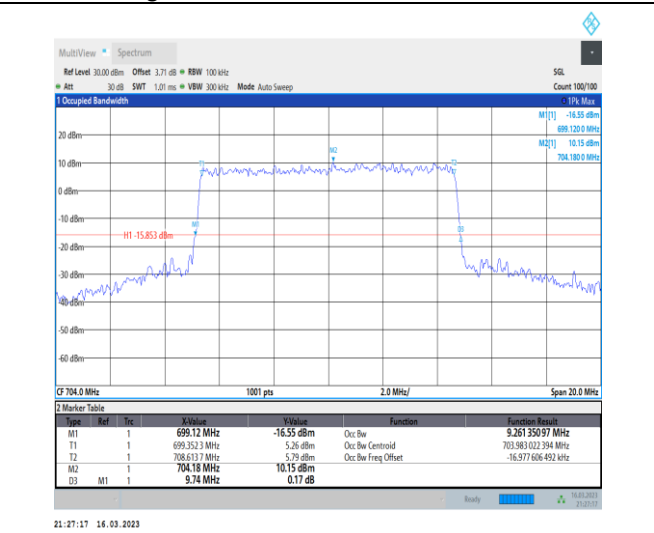
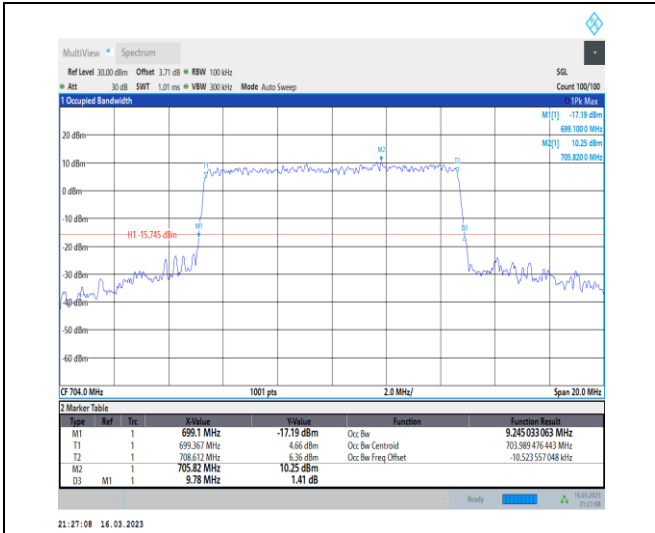
1-N12-PC3-15-10-L-5-DFT-256QAM-Outer\_Full-50 @0-Ant7-8.908-9.340-≤10-PASS



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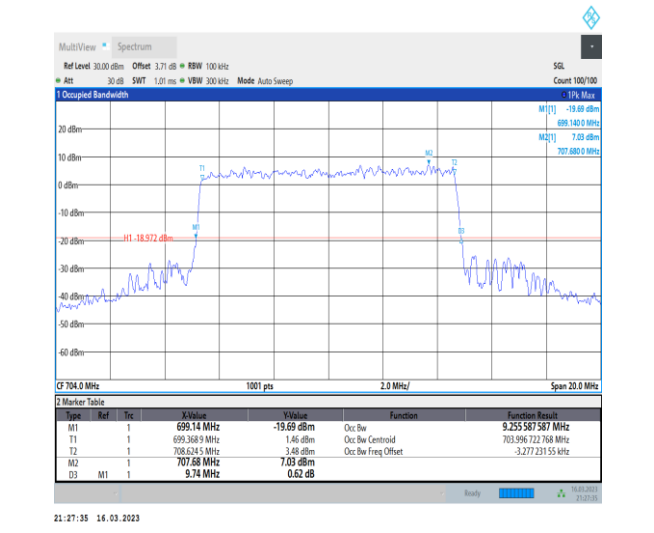
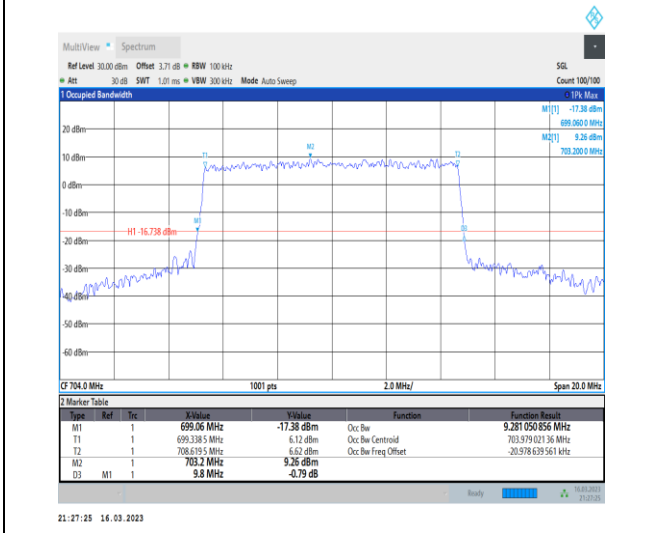
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1-N12-PC3-15-10-L-6-CP-QPSK-Outer\_Full-52@0-Ant7-9.245-9.780-≤10-PASS

1-N12-PC3-15-10-L-7-CP-16QAM-Outer\_Full-52@0-Ant7-9.261-9.740-≤10-PASS



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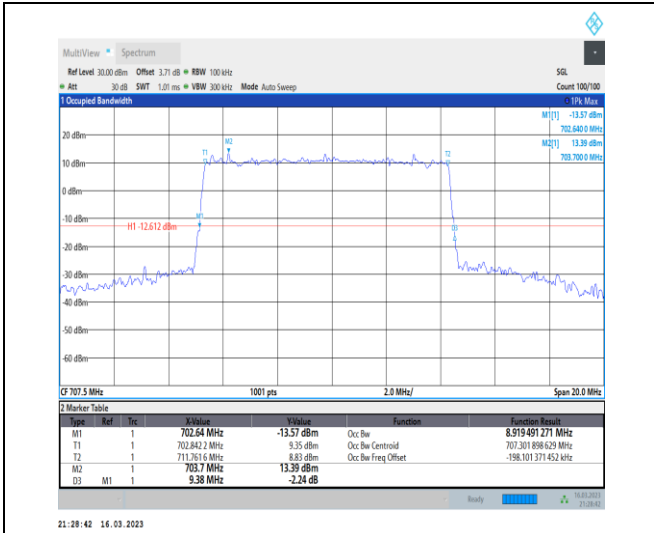
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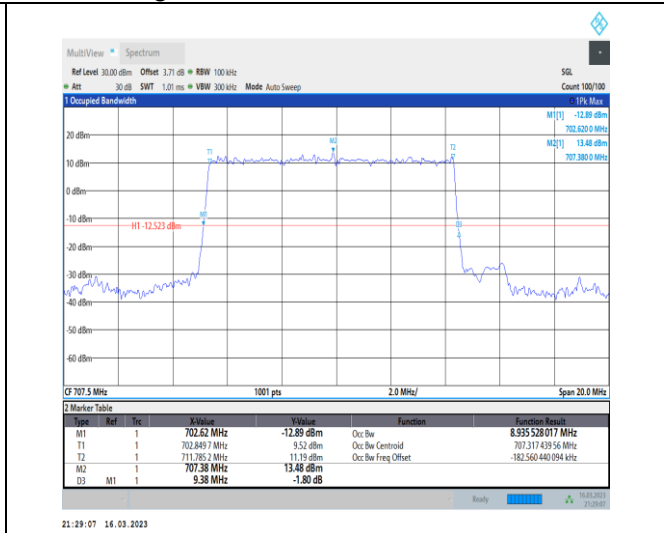
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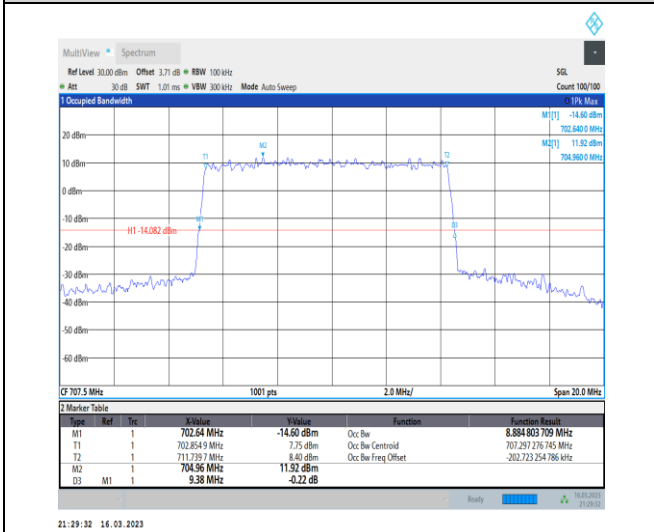
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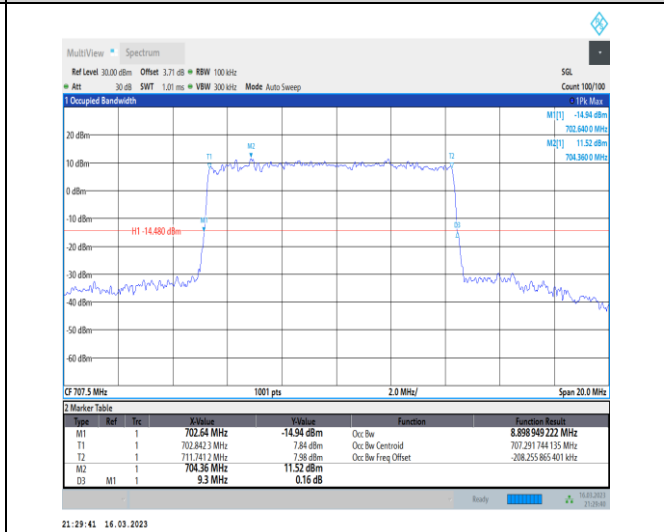
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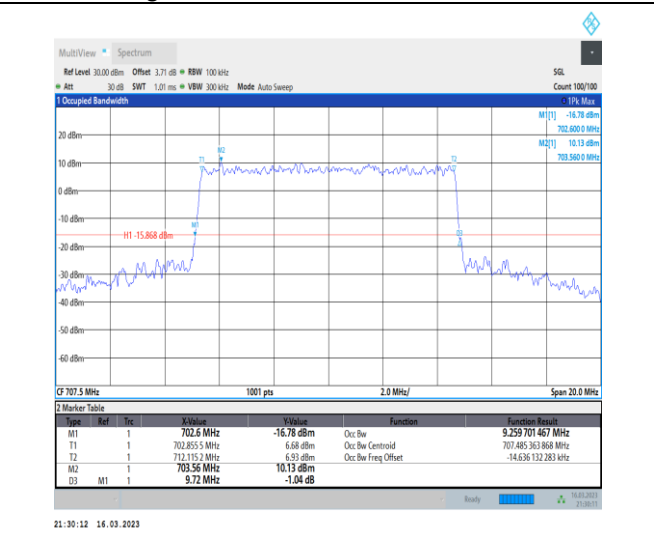
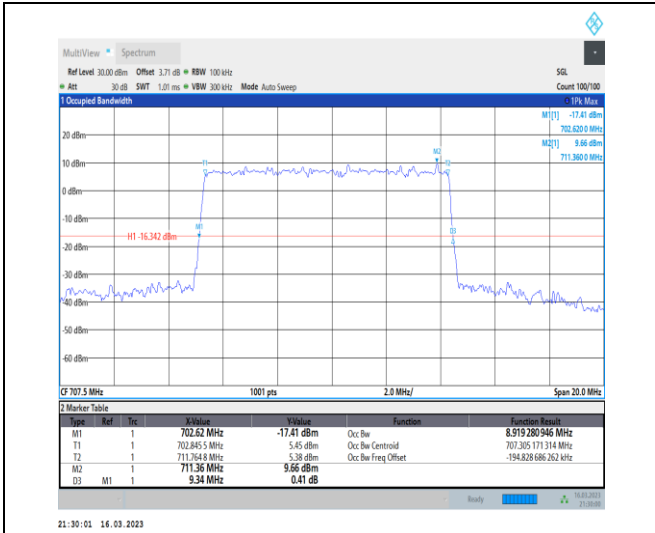
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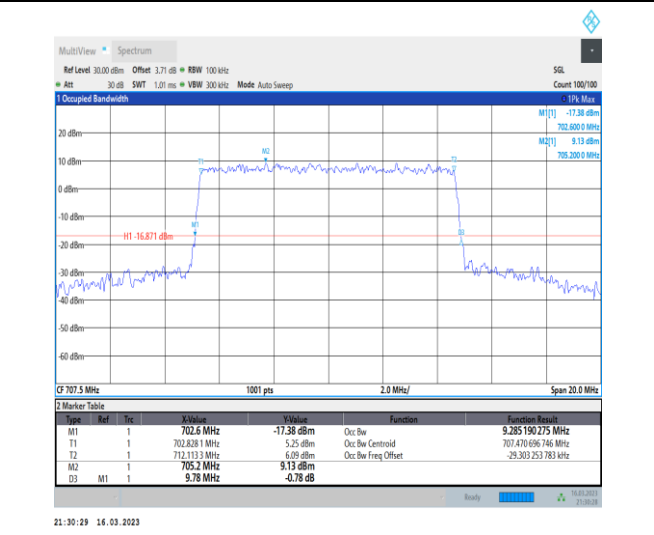
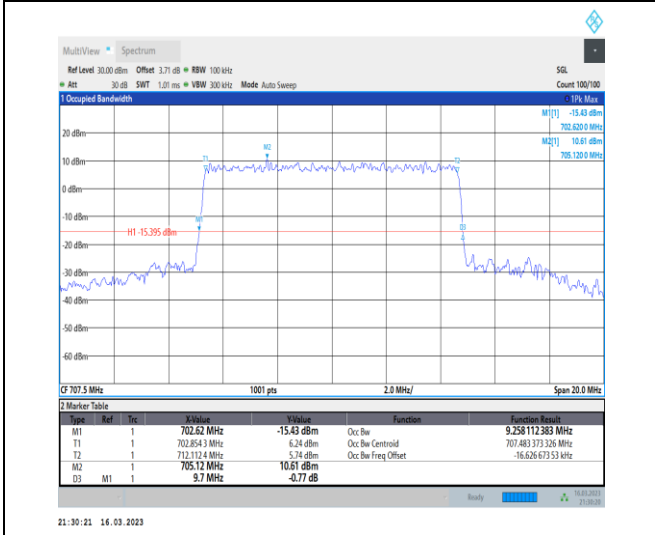
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1-N12-PC3-15-10-M-5-DFT-256QAM-Outer\_Full-50 @0-Ant7-8.919-9.340-≤10-PASS

1-N12-PC3-15-10-M-6-CP-QPSK-Outer\_Full-52@0-Ant7-9.26-9.720-≤10-PASS



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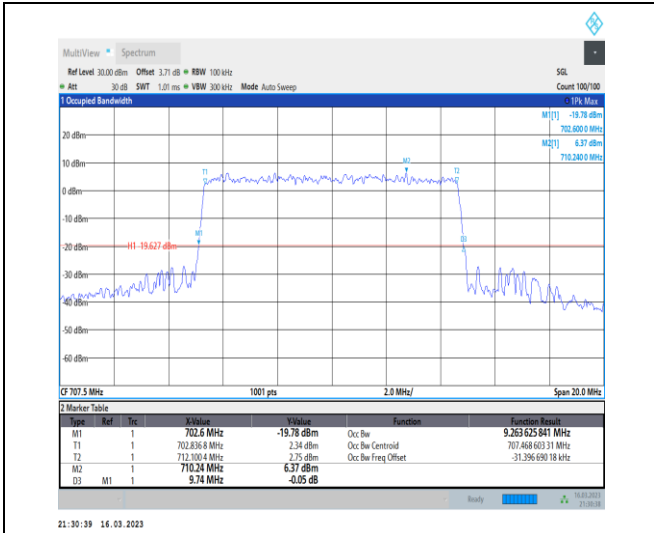
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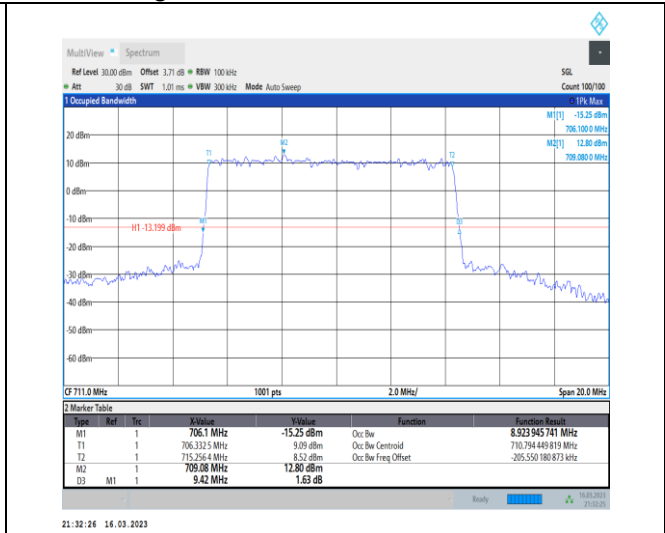
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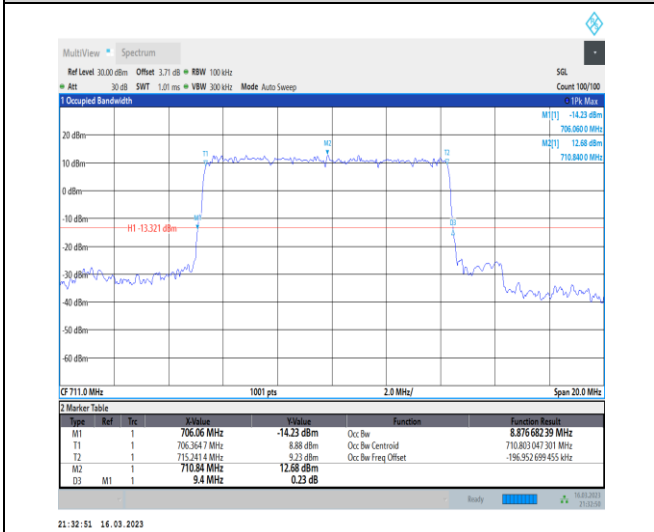
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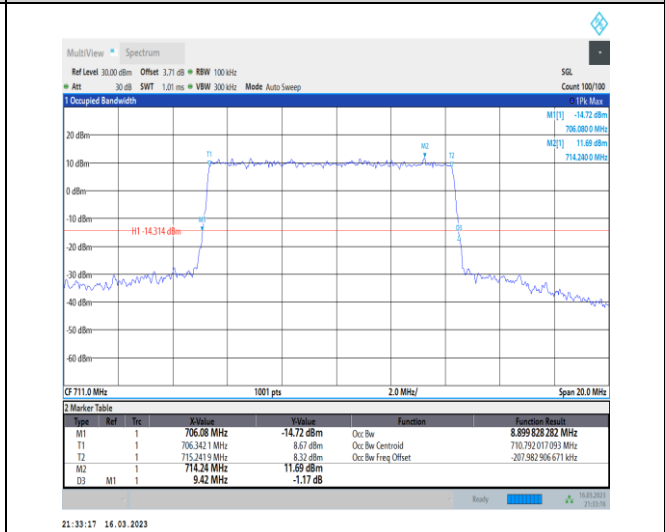
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1-N12-PC3-15-10-H-2-DFT-PI2BPSK-Outer\_Full-50@0-Ant7-8.877-9.400-≤10-PASS



1-N12-PC3-15-10-H-3-DFT-16QAM-Outer\_Full-50@0-Ant7-8.9-9.420-≤10-PASS



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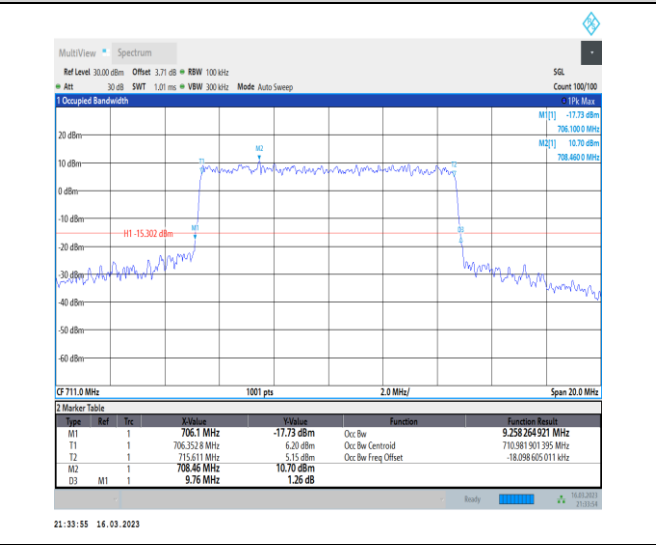
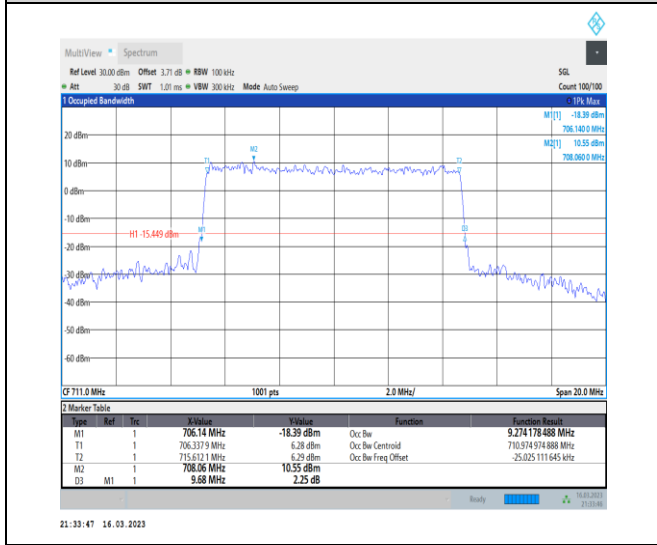
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1-N12-PC3-15-10-H-5-DFT-256QAM-Outer\_Full-50@0-Ant7-8.898-9.360-≤10-PASS



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1-N12-PC3-15-10-H-7-CP-16QAM-Outer\_Full-52@0-Ant7-9.258-9.760-≤10-PASS



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