

Report No.: SEWM2309000347RG02

Rev.: 01

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# Appendix B.19

## NR Band n7



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

### Test Result

ANT31

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Power (dBm)	EIRP (dBm)	Limit	Verdict
N7	15	5	DFT-QPSK	L	Inner_1RB_Left	23.07	20.07	33.00	PASS
N7	15	5	DFT-16QAM	L	Inner_1RB_Left	22.56	19.56	33.00	PASS
N7	15	5	DFT-QPSK	M	Inner_1RB_Left	23.10	20.10	33.00	PASS
N7	15	5	DFT-16QAM	M	Inner_1RB_Left	22.52	19.52	33.00	PASS
N7	15	5	DFT-QPSK	H	Inner_1RB_Left	23.07	20.07	33.00	PASS
N7	15	5	DFT-16QAM	H	Inner_1RB_Left	22.42	19.42	33.00	PASS
N7	15	10	DFT-QPSK	L	Inner_1RB_Left	23.12	20.12	33.00	PASS
N7	15	10	DFT-16QAM	L	Inner_1RB_Left	22.60	19.60	33.00	PASS
N7	15	10	DFT-QPSK	M	Inner_1RB_Left	23.05	20.05	33.00	PASS
N7	15	10	DFT-16QAM	M	Inner_1RB_Left	22.56	19.56	33.00	PASS
N7	15	10	DFT-QPSK	H	Inner_1RB_Left	22.94	19.94	33.00	PASS
N7	15	10	DFT-16QAM	H	Inner_1RB_Left	22.40	19.40	33.00	PASS
N7	15	15	DFT-QPSK	L	Inner_1RB_Left	23.06	20.06	33.00	PASS
N7	15	15	DFT-16QAM	L	Inner_1RB_Left	22.57	19.57	33.00	PASS
N7	15	15	DFT-QPSK	M	Inner_1RB_Left	22.92	19.92	33.00	PASS
N7	15	15	DFT-16QAM	M	Inner_1RB_Left	22.37	19.37	33.00	PASS
N7	15	15	DFT-QPSK	H	Inner_1RB_Left	22.74	19.74	33.00	PASS
N7	15	15	DFT-16QAM	H	Inner_1RB_Left	22.08	19.08	33.00	PASS
N7	15	20	DFT-QPSK	L	Inner_1RB_Left	22.95	19.95	33.00	PASS
N7	15	20	DFT-16QAM	L	Inner_1RB_Left	22.41	19.41	33.00	PASS
N7	15	20	DFT-QPSK	M	Inner_1RB_Left	22.90	19.90	33.00	PASS
N7	15	20	DFT-16QAM	M	Inner_1RB_Left	22.37	19.37	33.00	PASS
N7	15	20	DFT-QPSK	H	Inner_1RB_Left	22.74	19.74	33.00	PASS
N7	15	20	DFT-16QAM	H	Inner_1RB_Left	22.13	19.13	33.00	PASS
N7	15	25	DFT-QPSK	L	Inner_1RB_Left	23.12	20.12	33.00	PASS
N7	15	25	DFT-16QAM	L	Inner_1RB_Left	22.57	19.57	33.00	PASS
N7	15	25	DFT-QPSK	M	Inner_1RB_Left	23.06	20.06	33.00	PASS
N7	15	25	DFT-16QAM	M	Inner_1RB_Left	22.51	19.51	33.00	PASS
N7	15	25	DFT-QPSK	H	Inner_1RB_Left	23.14	20.14	33.00	PASS
N7	15	25	DFT-16QAM	H	Inner_1RB_Left	22.51	19.51	33.00	PASS
N7	15	30	DFT-QPSK	L	Inner_1RB_Left	23.14	20.14	33.00	PASS



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N7	15	30	DFT-16QAM	L	Inner_1RB_Left	22.54	19.54	33.00	PASS
N7	15	30	DFT-QPSK	M	Inner_1RB_Left	23.08	20.08	33.00	PASS
N7	15	30	DFT-16QAM	M	Inner_1RB_Left	22.53	19.53	33.00	PASS
N7	15	30	DFT-QPSK	H	Inner_1RB_Left	23.22	20.22	33.00	PASS
N7	15	30	DFT-16QAM	H	Inner_1RB_Left	22.66	19.66	33.00	PASS
N7	15	40	DFT-PI2BPSK	L	Inner_1RB_Left	23.09	20.09	33.00	PASS
N7	15	40	DFT-PI2BPSK	L	Inner_1RB_Right	23.14	20.14	33.00	PASS
N7	15	40	DFT-PI2BPSK	L	Outer_Full	22.67	19.67	33.00	PASS
N7	15	40	DFT-QPSK	L	Inner_1RB_Left	22.93	19.93	33.00	PASS
N7	15	40	DFT-QPSK	L	Inner_1RB_Right	23.13	20.13	33.00	PASS
N7	15	40	DFT-QPSK	L	Outer_Full	22.58	19.58	33.00	PASS
N7	15	40	DFT-16QAM	L	Inner_1RB_Left	22.63	19.63	33.00	PASS
N7	15	40	DFT-16QAM	L	Inner_1RB_Right	22.51	19.51	33.00	PASS
N7	15	40	DFT-16QAM	L	Outer_Full	22.32	19.32	33.00	PASS
N7	15	40	DFT-64QAM	L	Inner_1RB_Left	21.68	18.68	33.00	PASS
N7	15	40	DFT-64QAM	L	Inner_1RB_Right	21.77	18.77	33.00	PASS
N7	15	40	DFT-64QAM	L	Outer_Full	21.52	18.52	33.00	PASS
N7	15	40	DFT-256QAM	L	Inner_1RB_Left	18.52	15.52	33.00	PASS
N7	15	40	DFT-256QAM	L	Inner_1RB_Right	18.84	15.84	33.00	PASS
N7	15	40	DFT-256QAM	L	Outer_Full	19.10	16.10	33.00	PASS
N7	15	40	DFT-PI2BPSK	M	Inner_1RB_Left	23.18	20.18	33.00	PASS
N7	15	40	DFT-PI2BPSK	M	Inner_1RB_Right	23.03	20.03	33.00	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	22.62	19.62	33.00	PASS
N7	15	40	DFT-QPSK	M	Inner_1RB_Left	23.16	20.16	33.00	PASS
N7	15	40	DFT-QPSK	M	Inner_1RB_Right	22.94	19.94	33.00	PASS
N7	15	40	DFT-QPSK	M	Outer_Full	22.44	19.44	33.00	PASS
N7	15	40	DFT-16QAM	M	Inner_1RB_Left	22.75	19.75	33.00	PASS
N7	15	40	DFT-16QAM	M	Inner_1RB_Right	22.41	19.41	33.00	PASS
N7	15	40	DFT-16QAM	M	Outer_Full	21.57	18.57	33.00	PASS
N7	15	40	DFT-64QAM	M	Inner_1RB_Left	21.14	18.14	33.00	PASS
N7	15	40	DFT-64QAM	M	Inner_1RB_Right	21.00	18.00	33.00	PASS
N7	15	40	DFT-64QAM	M	Outer_Full	20.99	17.99	33.00	PASS
N7	15	40	DFT-256QAM	M	Inner_1RB_Left	18.64	15.64	33.00	PASS
N7	15	40	DFT-256QAM	M	Inner_1RB_Right	18.45	15.45	33.00	PASS
N7	15	40	DFT-256QAM	M	Outer_Full	18.98	15.98	33.00	PASS
N7	15	40	DFT-PI2BPSK	H	Inner_1RB_Left	23.05	20.05	33.00	PASS
N7	15	40	DFT-PI2BPSK	H	Inner_1RB_Right	23.13	20.13	33.00	PASS



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N7	15	40	DFT-PI2BPSK	H	Outer_Full	22.55	19.55	33.00	PASS
N7	15	40	DFT-QPSK	H	Inner_1RB_Left	22.99	19.99	33.00	PASS
N7	15	40	DFT-QPSK	H	Inner_1RB_Right	23.06	20.06	33.00	PASS
N7	15	40	DFT-QPSK	H	Outer_Full	22.42	19.42	33.00	PASS
N7	15	40	DFT-16QAM	H	Inner_1RB_Left	22.49	19.49	33.00	PASS
N7	15	40	DFT-16QAM	H	Inner_1RB_Right	22.59	19.59	33.00	PASS
N7	15	40	DFT-16QAM	H	Outer_Full	21.66	18.66	33.00	PASS
N7	15	40	DFT-64QAM	H	Inner_1RB_Left	21.04	18.04	33.00	PASS
N7	15	40	DFT-64QAM	H	Inner_1RB_Right	21.10	18.10	33.00	PASS
N7	15	40	DFT-64QAM	H	Outer_Full	20.94	17.94	33.00	PASS
N7	15	40	DFT-256QAM	H	Inner_1RB_Left	18.42	15.42	33.00	PASS
N7	15	40	DFT-256QAM	H	Inner_1RB_Right	18.59	15.59	33.00	PASS
N7	15	40	DFT-256QAM	H	Outer_Full	19.03	16.03	33.00	PASS



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## Peak-to-Average Ratio for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	Result	Limit	Verdict
N7	15	40	DFT-256QAM	L	Outer_Full	8.98	≤13	PASS
N7	15	40	CP-256QAM	L	Outer_Full	9.76	≤13	PASS
N7	15	40	DFT-256QAM	M	Outer_Full	7.69	≤13	PASS
N7	15	40	CP-256QAM	M	Outer_Full	9.44	≤13	PASS
N7	15	40	DFT-256QAM	H	Outer_Full	9.00	≤13	PASS
N7	15	40	CP-256QAM	H	Outer_Full	9.46	≤13	PASS



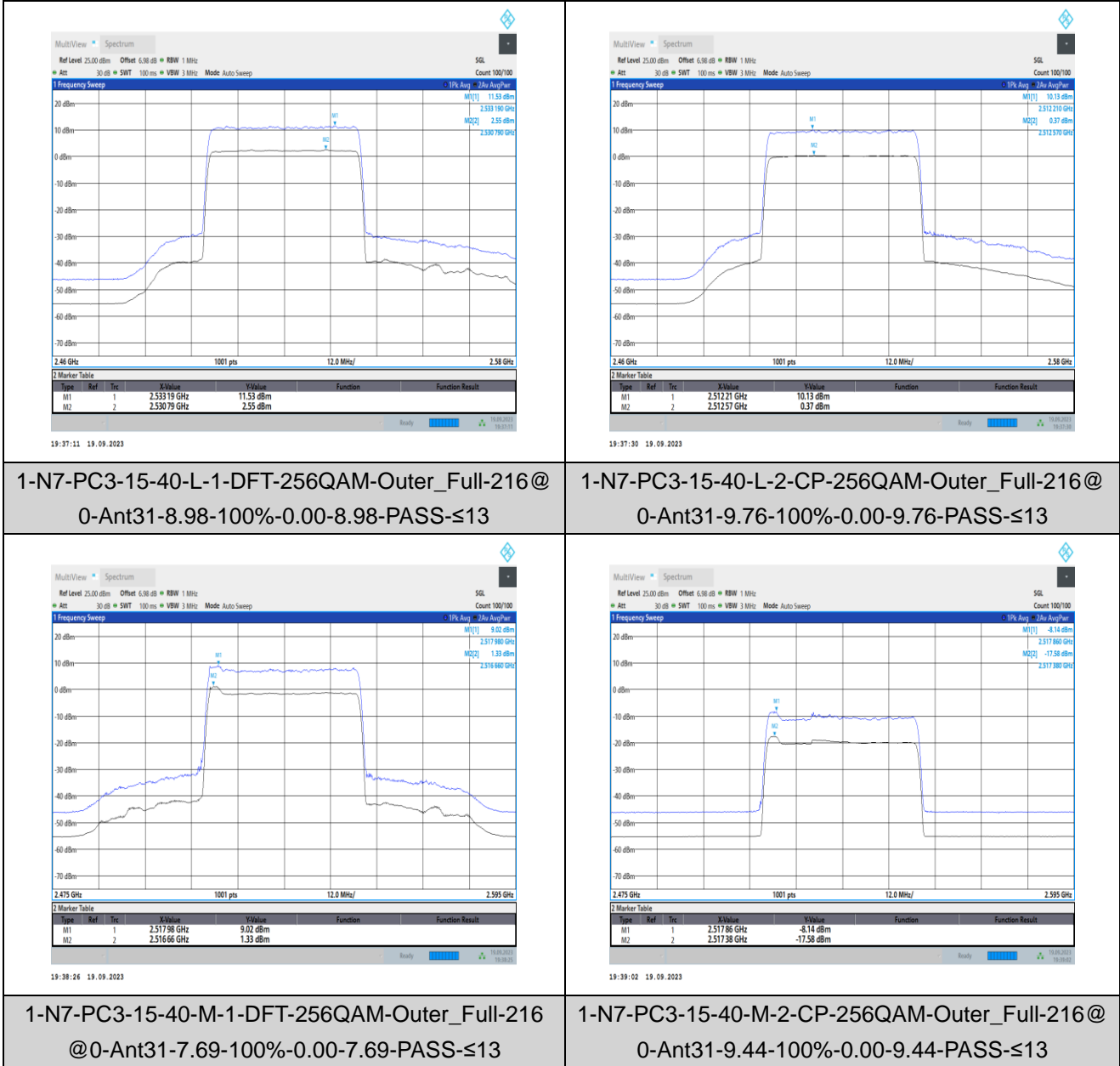
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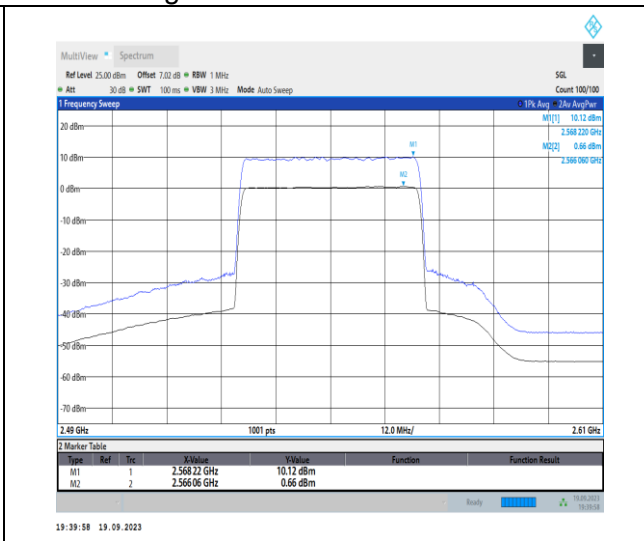
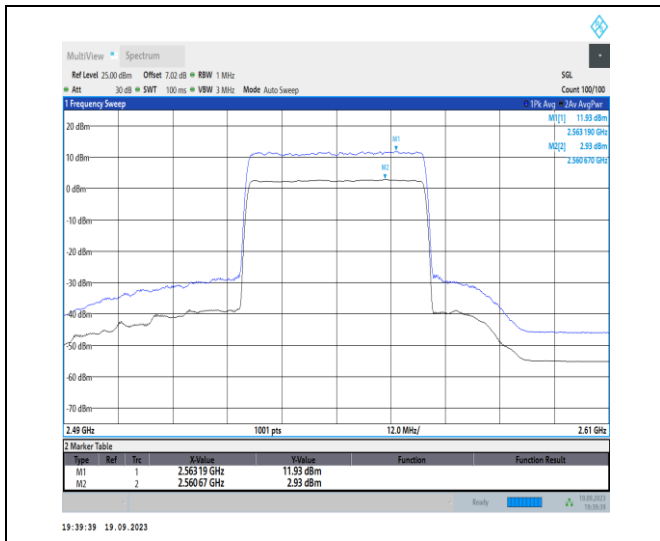
Test Graphs



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1-N7-PC3-15-40-H-1-DFT-256QAM-Outer\_Full-216 @0-Ant31-9.00-100%-0.00-9.00-PASS-≤13

1-N7-PC3-15-40-H-2-CP-256QAM-Outer\_Full-216 @0-Ant31-9.46-100%-0.00-9.46-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
N7	15	5	DFT-QPSK	M	Outer_Full	4.474	4.860	PASS
N7	15	5	DFT-PI2BPSK	M	Outer_Full	4.456	4.860	PASS
N7	15	5	DFT-16QAM	M	Outer_Full	4.473	4.870	PASS
N7	15	5	DFT-64QAM	M	Outer_Full	4.469	4.880	PASS
N7	15	5	DFT-256QAM	M	Outer_Full	4.476	4.940	PASS
N7	15	5	CP-QPSK	M	Outer_Full	4.479	4.950	PASS
N7	15	5	CP-16QAM	M	Outer_Full	4.486	4.930	PASS
N7	15	5	CP-64QAM	M	Outer_Full	4.48	4.920	PASS
N7	15	5	CP-256QAM	M	Outer_Full	4.475	4.850	PASS
N7	15	10	DFT-QPSK	M	Outer_Full	8.939	9.480	PASS
N7	15	10	DFT-PI2BPSK	M	Outer_Full	8.906	9.460	PASS
N7	15	10	DFT-16QAM	M	Outer_Full	8.937	9.580	PASS
N7	15	10	DFT-64QAM	M	Outer_Full	8.938	9.600	PASS
N7	15	10	DFT-256QAM	M	Outer_Full	8.922	9.540	PASS
N7	15	10	CP-QPSK	M	Outer_Full	9.286	10.020	PASS
N7	15	10	CP-16QAM	M	Outer_Full	9.278	9.940	PASS
N7	15	10	CP-64QAM	M	Outer_Full	9.299	9.880	PASS
N7	15	10	CP-256QAM	M	Outer_Full	9.303	9.920	PASS
N7	15	15	DFT-QPSK	M	Outer_Full	13.438	14.130	PASS
N7	15	15	DFT-PI2BPSK	M	Outer_Full	13.429	14.160	PASS
N7	15	15	DFT-16QAM	M	Outer_Full	13.46	14.310	PASS
N7	15	15	DFT-64QAM	M	Outer_Full	13.435	14.310	PASS
N7	15	15	DFT-256QAM	M	Outer_Full	13.435	14.160	PASS
N7	15	15	CP-QPSK	M	Outer_Full	14.102	14.940	PASS
N7	15	15	CP-16QAM	M	Outer_Full	14.114	14.970	PASS
N7	15	15	CP-64QAM	M	Outer_Full	14.137	14.910	PASS
N7	15	15	CP-256QAM	M	Outer_Full	14.126	14.910	PASS
N7	15	20	DFT-QPSK	M	Outer_Full	17.894	18.680	PASS
N7	15	20	DFT-PI2BPSK	M	Outer_Full	17.873	18.640	PASS
N7	15	20	DFT-16QAM	M	Outer_Full	17.879	18.640	PASS
N7	15	20	DFT-64QAM	M	Outer_Full	17.888	18.640	PASS



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N7	15	20	DFT-256QAM	M	Outer_Full	17.872	18.600	PASS
N7	15	20	CP-QPSK	M	Outer_Full	18.953	19.880	PASS
N7	15	20	CP-16QAM	M	Outer_Full	18.948	19.680	PASS
N7	15	20	CP-64QAM	M	Outer_Full	18.907	19.840	PASS
N7	15	20	CP-256QAM	M	Outer_Full	19.008	19.760	PASS
N7	15	25	DFT-QPSK	M	Outer_Full	22.881	23.950	PASS
N7	15	25	DFT-PI2BPSK	M	Outer_Full	22.916	24.000	PASS
N7	15	25	DFT-16QAM	M	Outer_Full	22.928	23.850	PASS
N7	15	25	DFT-64QAM	M	Outer_Full	22.848	23.900	PASS
N7	15	25	DFT-256QAM	M	Outer_Full	22.841	23.850	PASS
N7	15	25	CP-QPSK	M	Outer_Full	23.765	24.800	PASS
N7	15	25	CP-16QAM	M	Outer_Full	23.738	24.850	PASS
N7	15	25	CP-64QAM	M	Outer_Full	23.803	24.850	PASS
N7	15	25	CP-256QAM	M	Outer_Full	23.798	24.700	PASS
N7	15	30	DFT-QPSK	M	Outer_Full	28.596	29.700	PASS
N7	15	30	DFT-PI2BPSK	M	Outer_Full	28.57	29.640	PASS
N7	15	30	DFT-16QAM	M	Outer_Full	28.593	29.580	PASS
N7	15	30	DFT-64QAM	M	Outer_Full	28.574	29.640	PASS
N7	15	30	DFT-256QAM	M	Outer_Full	28.595	29.700	PASS
N7	15	30	CP-QPSK	M	Outer_Full	28.574	29.640	PASS
N7	15	30	CP-16QAM	M	Outer_Full	28.544	29.640	PASS
N7	15	30	CP-64QAM	M	Outer_Full	28.585	29.760	PASS
N7	15	30	CP-256QAM	M	Outer_Full	28.546	29.640	PASS
N7	15	40	DFT-QPSK	M	Outer_Full	38.713	40.160	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	38.579	40.160	PASS
N7	15	40	DFT-16QAM	M	Outer_Full	38.608	40.240	PASS
N7	15	40	DFT-64QAM	M	Outer_Full	38.556	40.240	PASS
N7	15	40	DFT-256QAM	M	Outer_Full	38.52	40.160	PASS
N7	15	40	CP-QPSK	M	Outer_Full	38.6	40.160	PASS
N7	15	40	CP-16QAM	M	Outer_Full	38.486	40.240	PASS
N7	15	40	CP-64QAM	M	Outer_Full	38.589	40.080	PASS
N7	15	40	CP-256QAM	M	Outer_Full	38.591	40.160	PASS



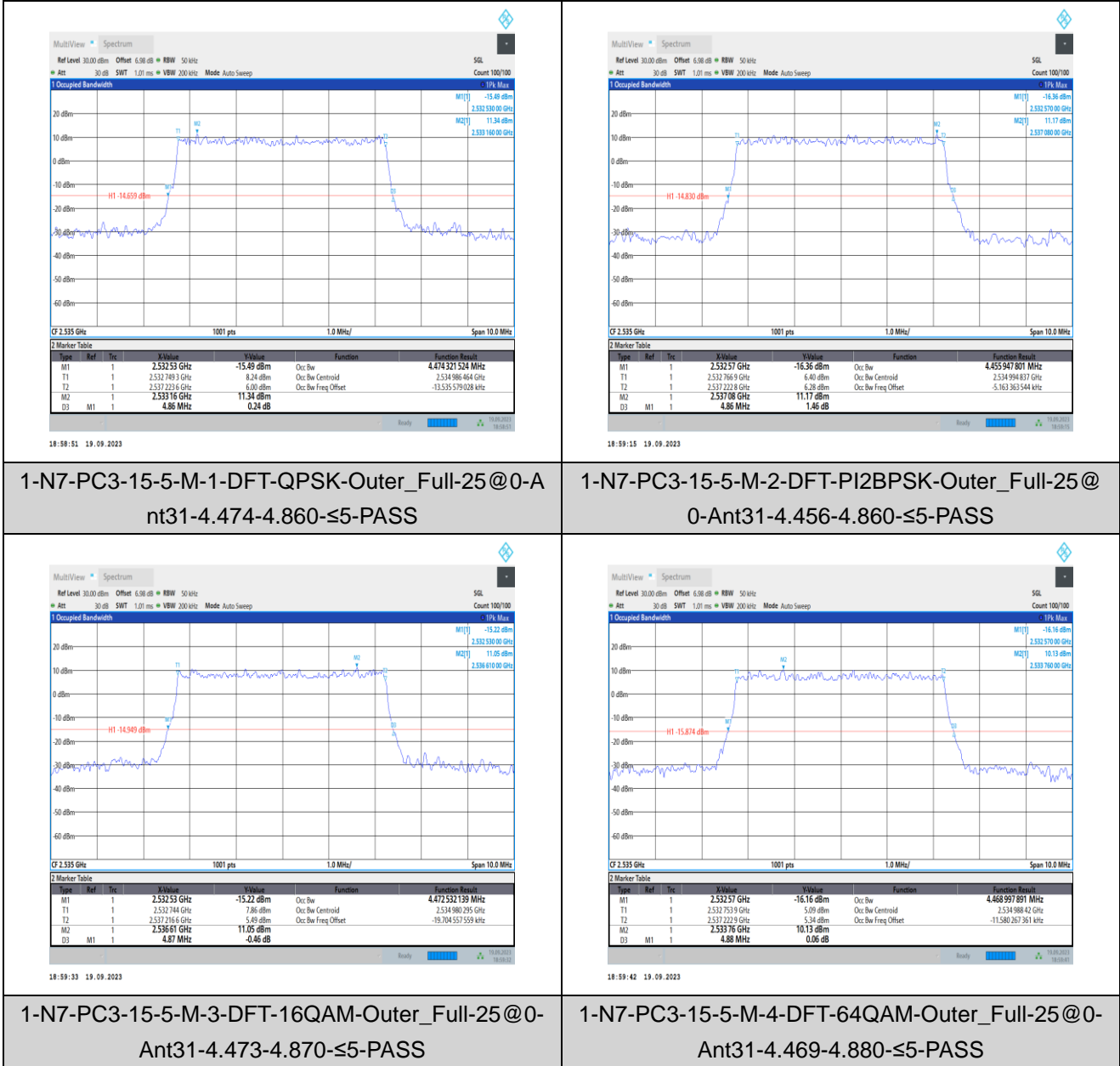
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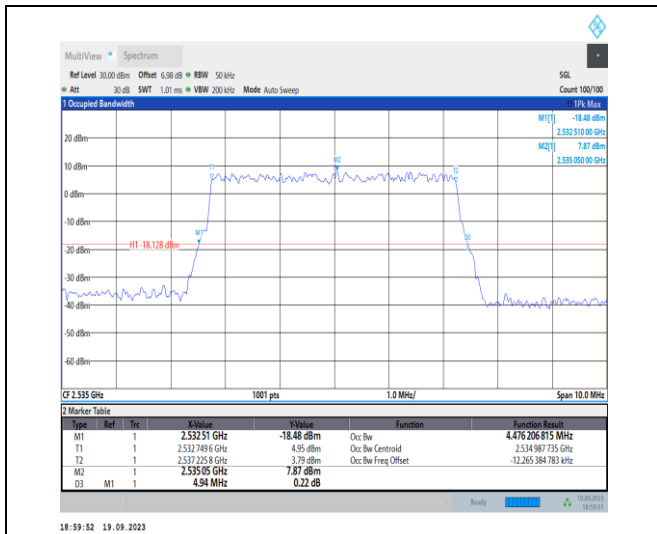
Test Graphs



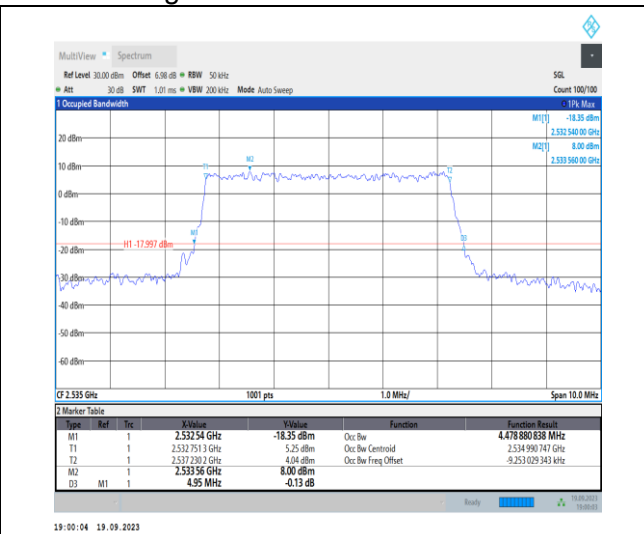
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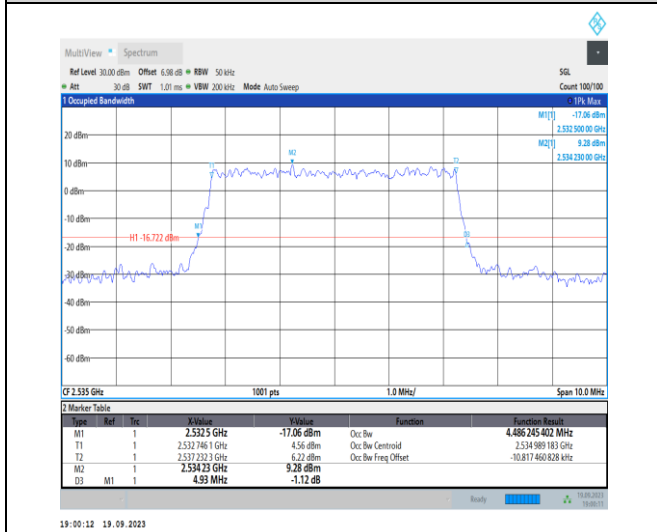
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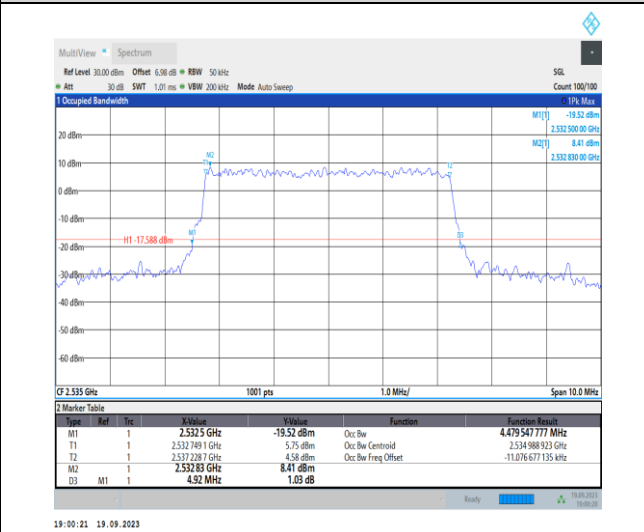
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1-N7-PC3-15-5-M-6-CP-QPSK-Outer\_Full-25@0-Ant31-4.479-4.950-≤5-PASS



1-N7-PC3-15-5-M-7-CP-16QAM-Outer\_Full-25@0-Ant31-4.486-4.930-≤5-PASS



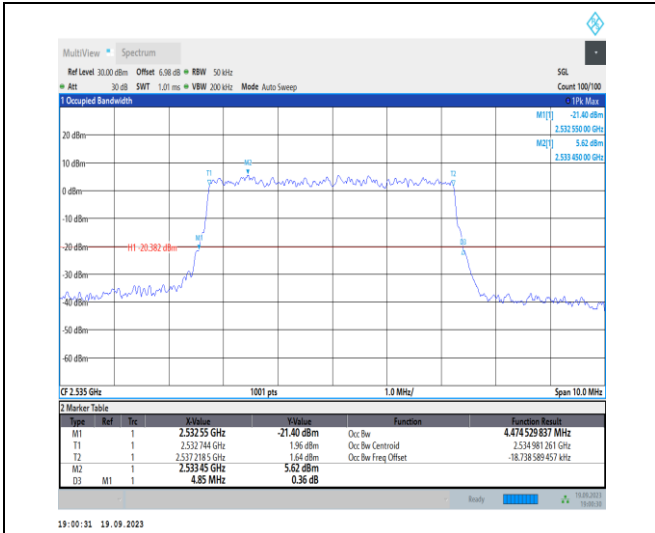
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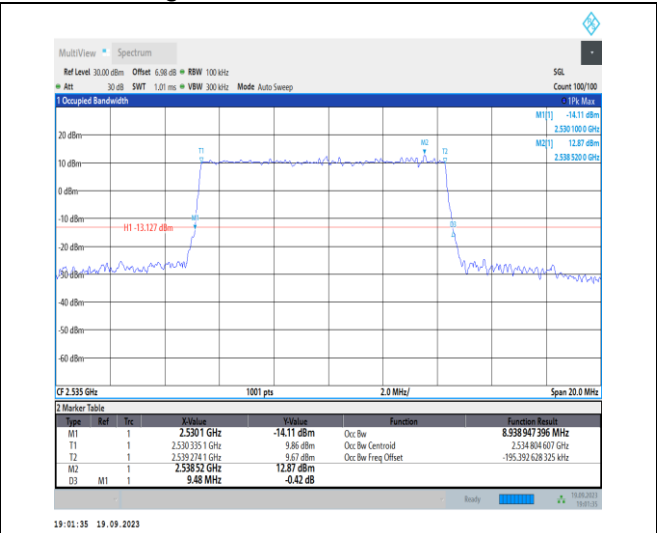
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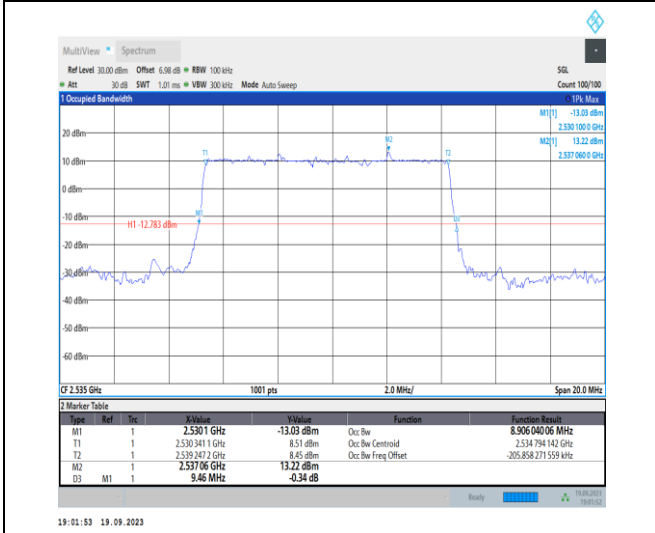
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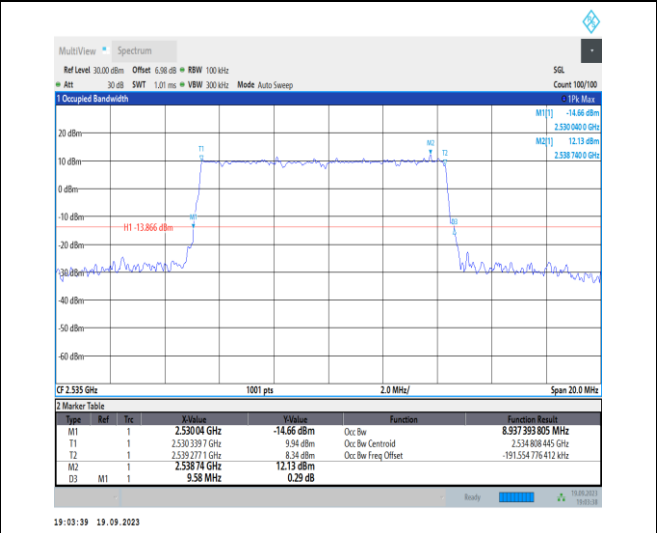
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1-N7-PC3-15-10-M-2-DFT-PI2BPSK-Outer\_Full-50@0-Ant31-8.906-9.460-≤10-PASS



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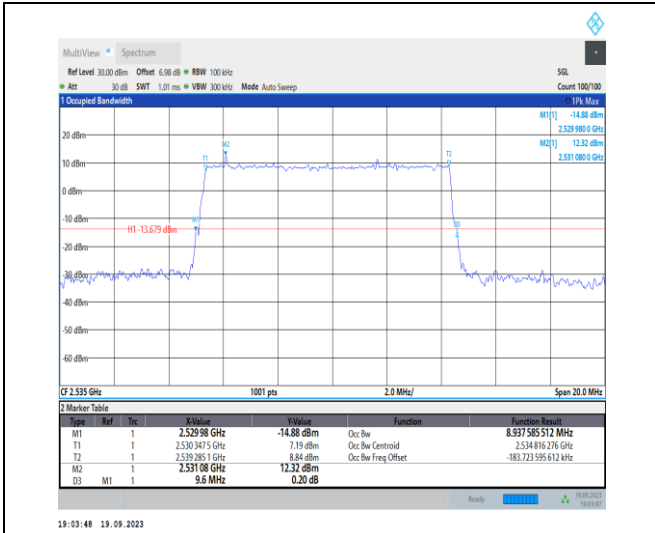


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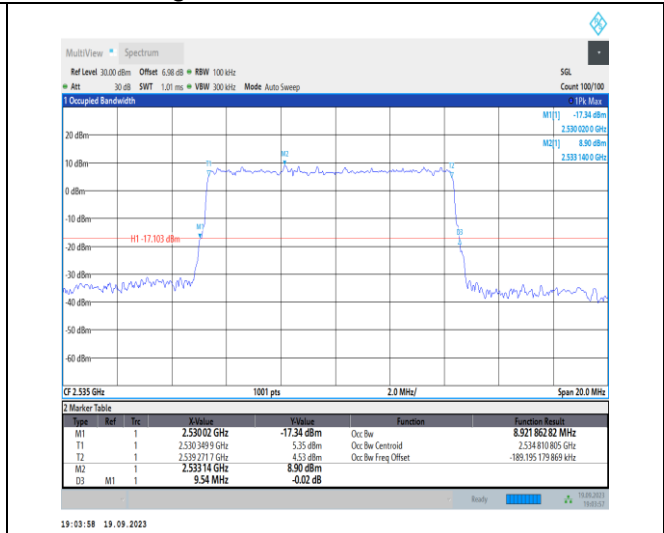
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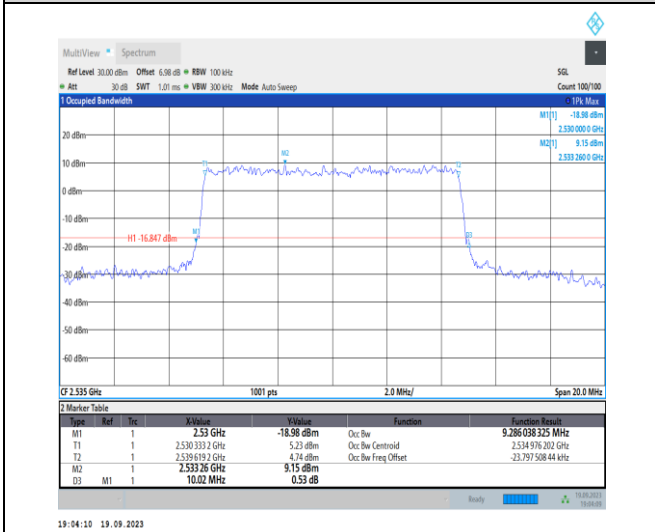
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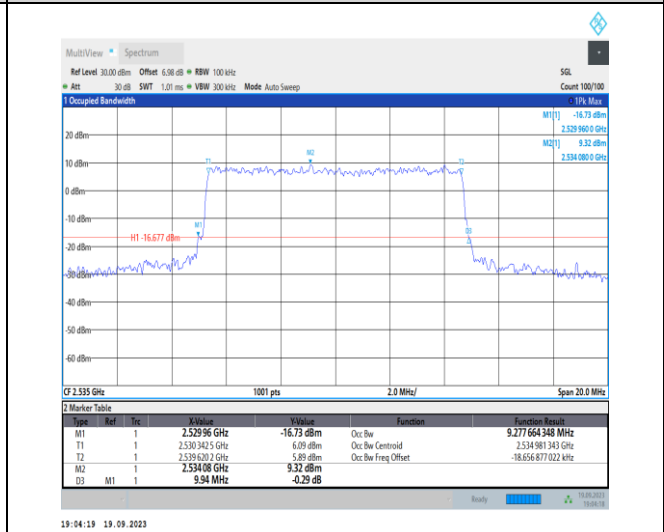
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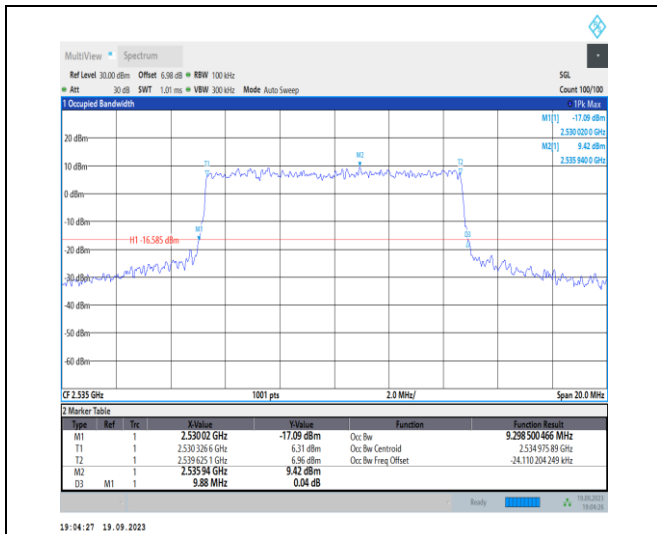
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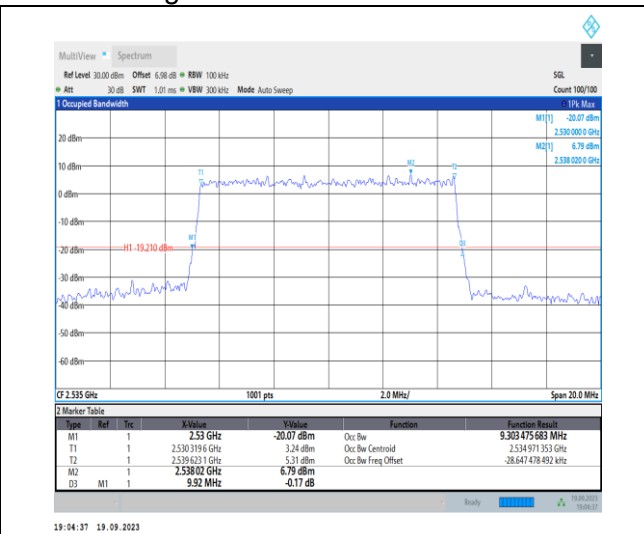
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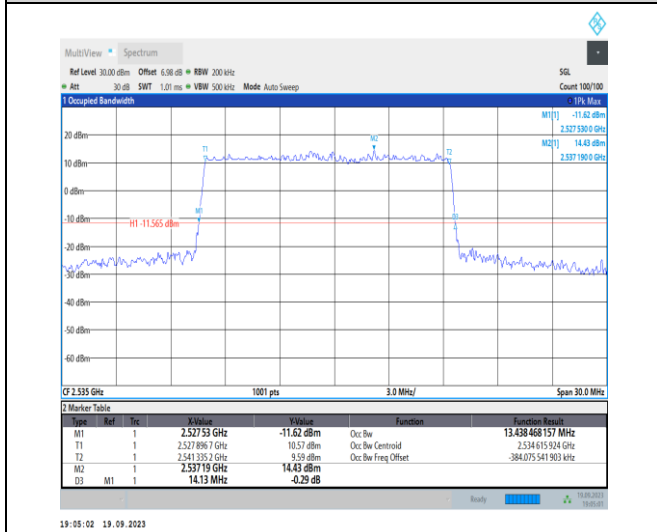
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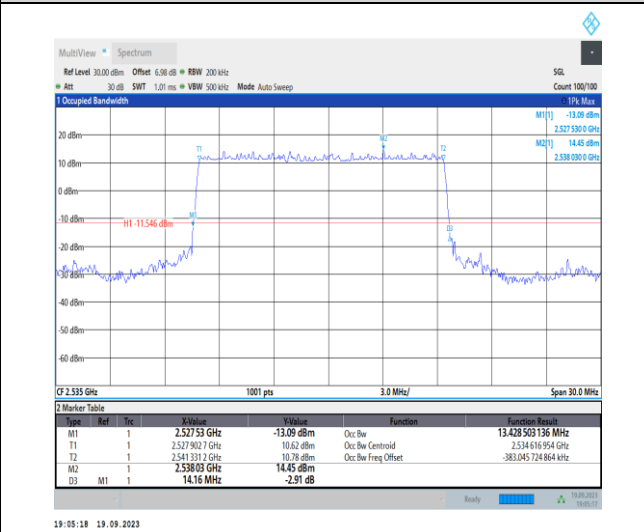
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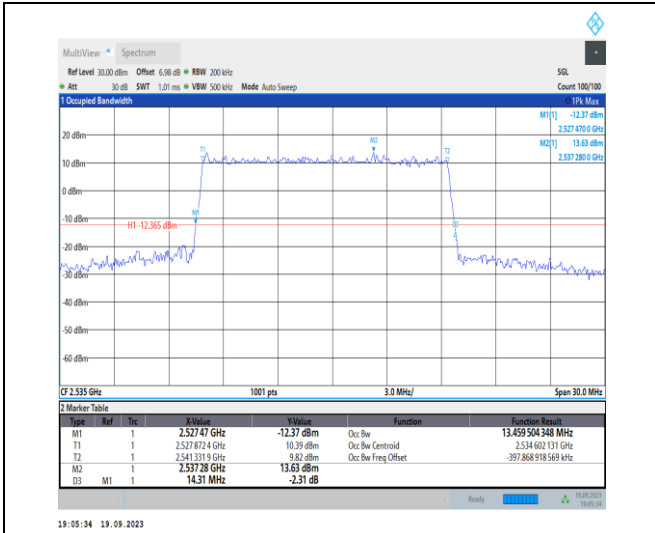
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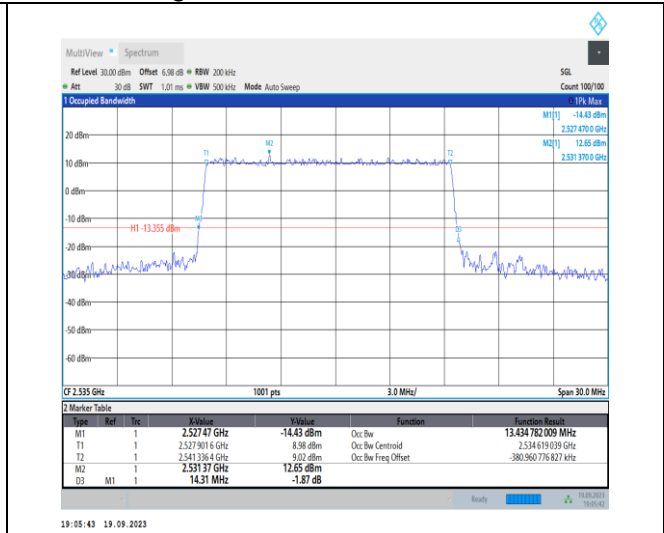
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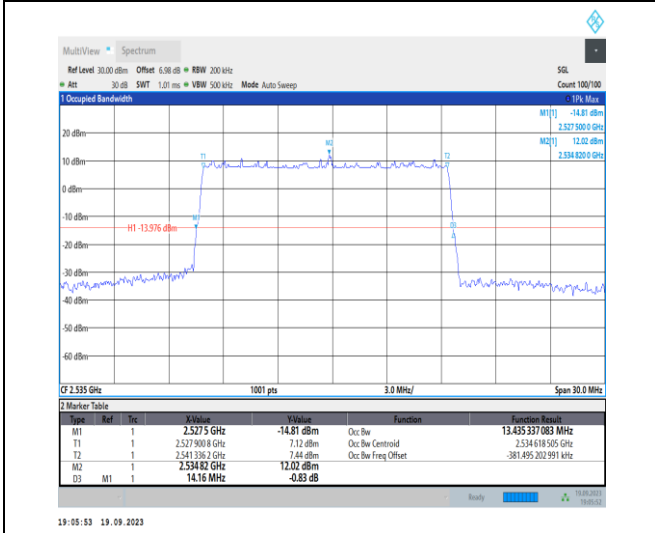
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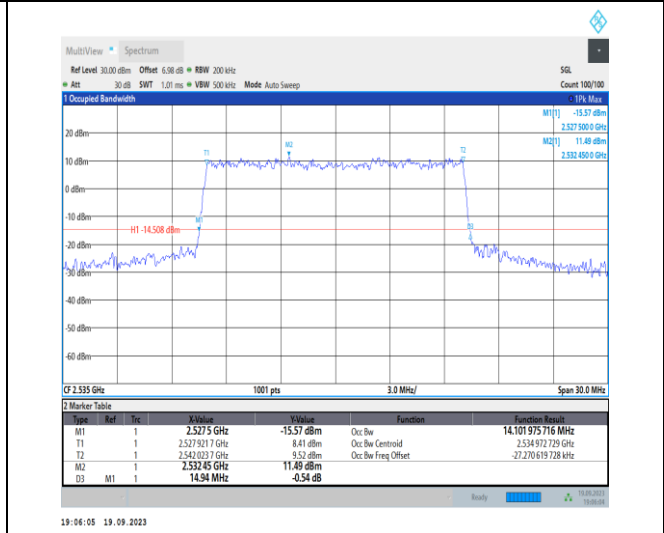
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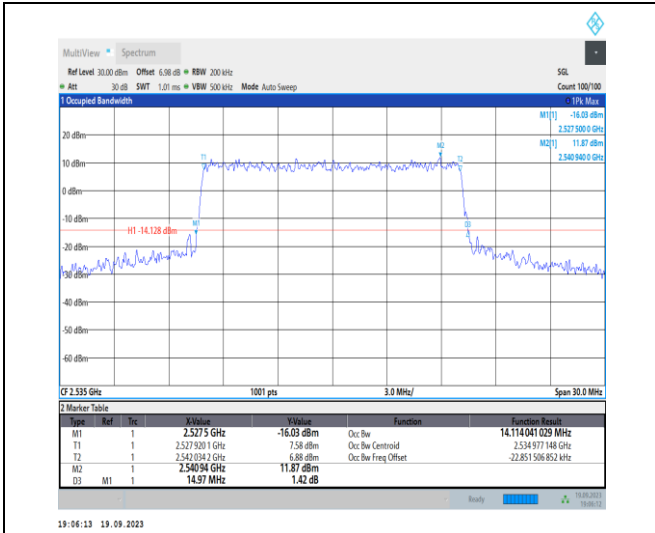


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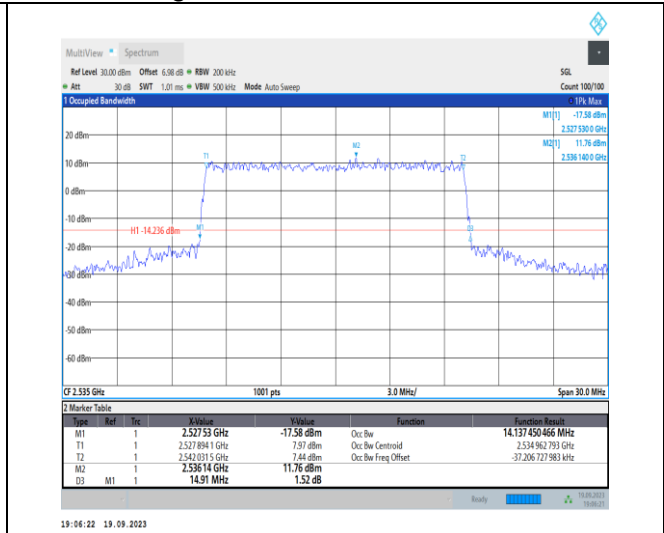
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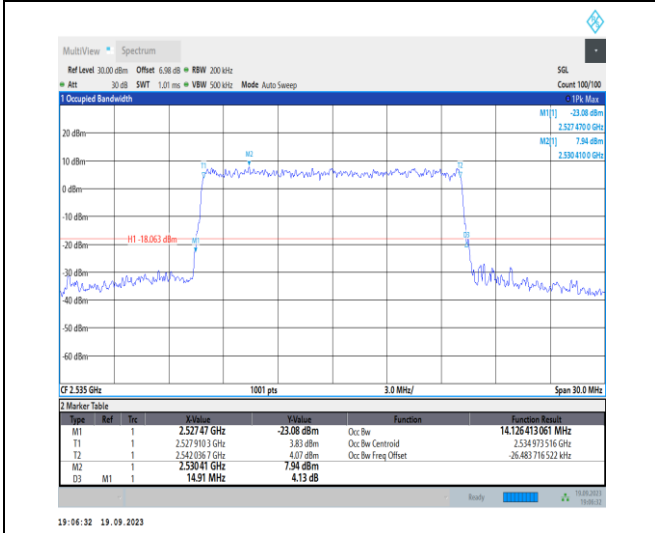
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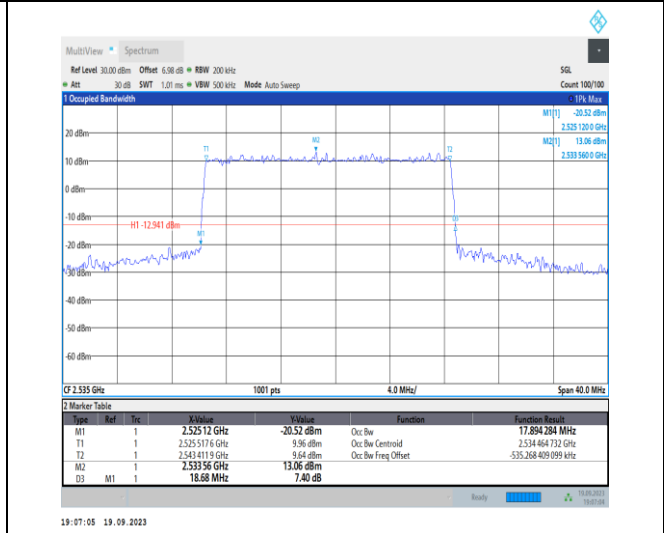
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1-N7-PC3-15-15-M-9-CP-256QAM-Outer\_Full-79@0-Ant31-14.126-14.910-≤15-PASS



1-N7-PC3-15-20-M-1-DFT-QPSK-Outer\_Full-100@0-Ant31-17.894-18.680-≤20-PASS



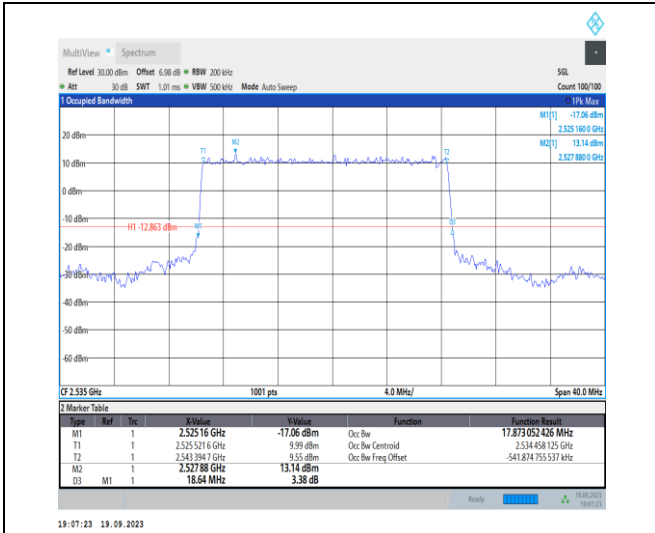
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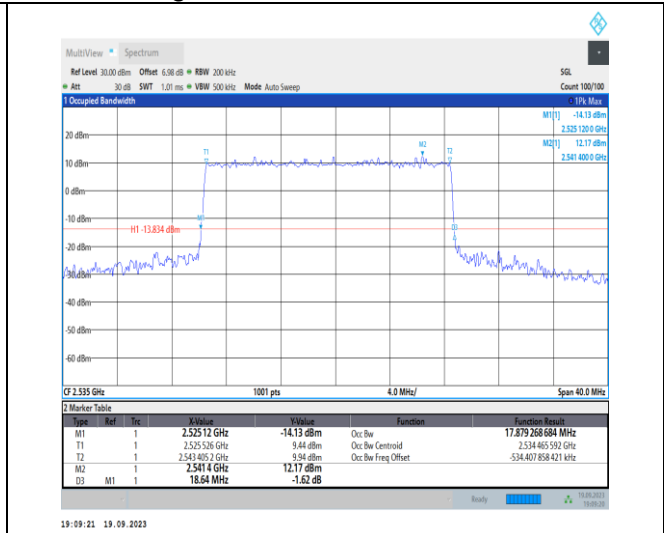
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 t (86-512) 62992980 sgs.china@sgs.com

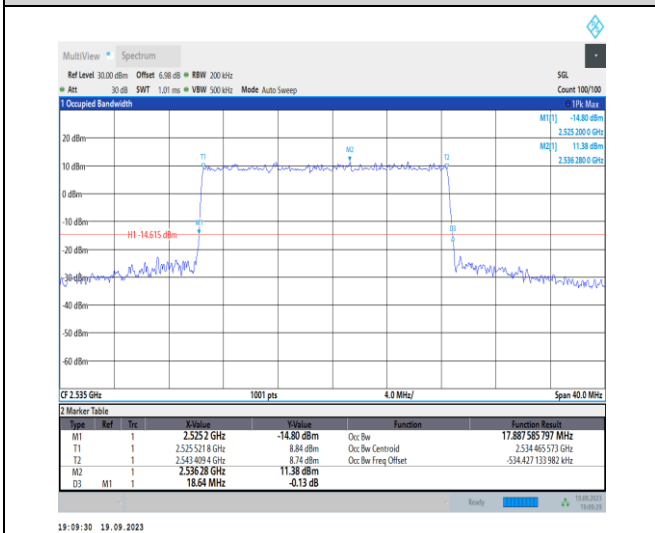




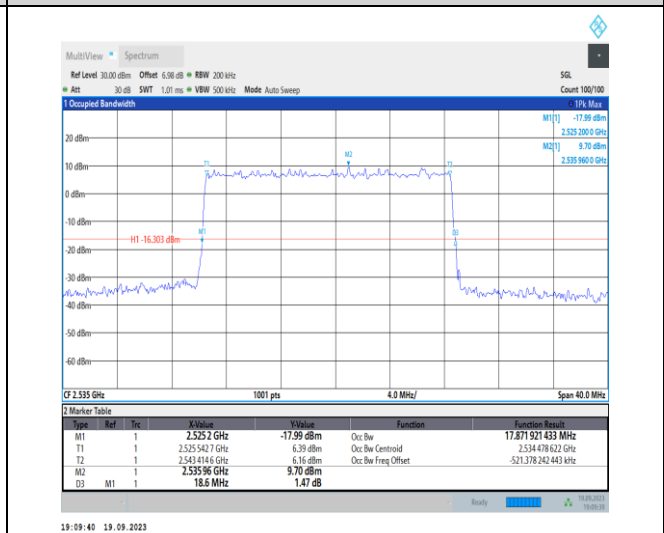
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1-N7-PC3-15-20-M-3-DFT-16QAM-Outer\_Full-100 @0-Ant31-17.879-18.640-≤20-PASS



1-N7-PC3-15-20-M-4-DFT-64QAM-Outer\_Full-100 @0-Ant31-17.888-18.640-≤20-PASS



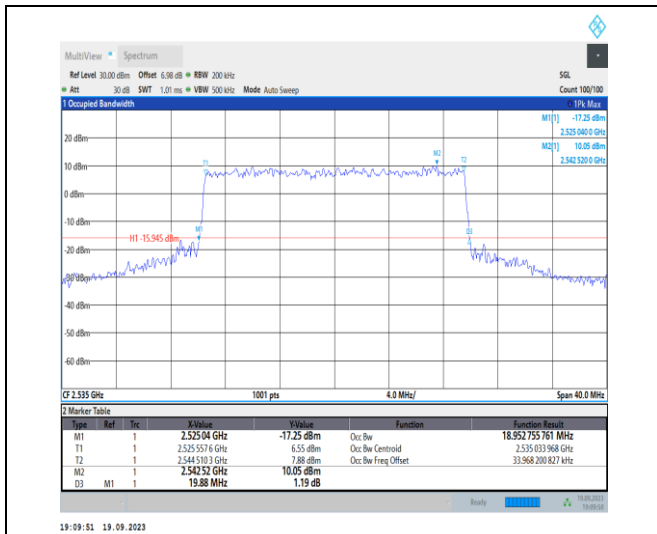
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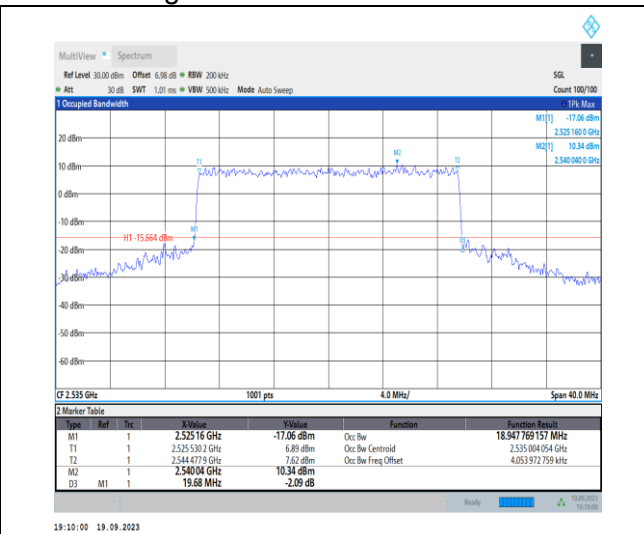
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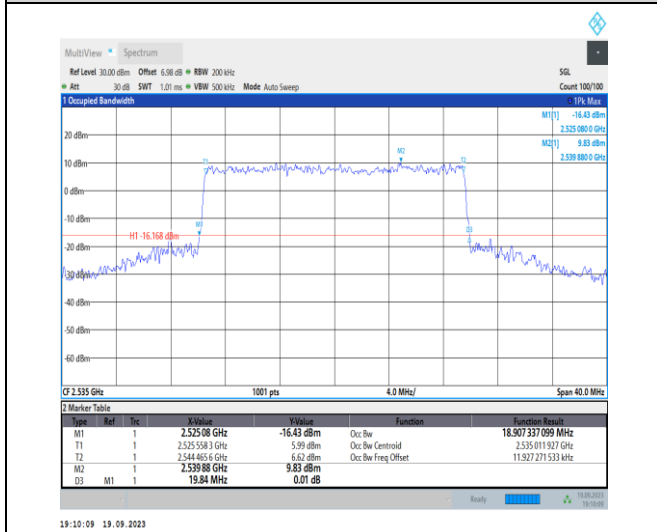
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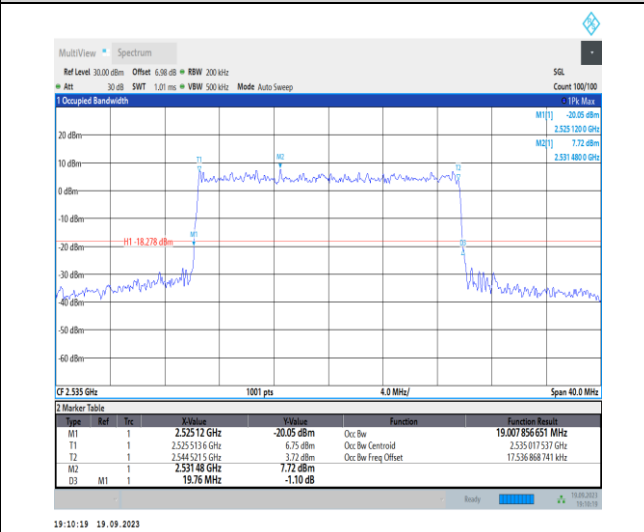
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1-N7-PC3-15-20-M-7-CP-16QAM-Outer\_Full-106@0-Ant31-18.948-19.680-≤20-PASS



1-N7-PC3-15-20-M-8-CP-64QAM-Outer\_Full-106@0-Ant31-18.907-19.840-≤20-PASS



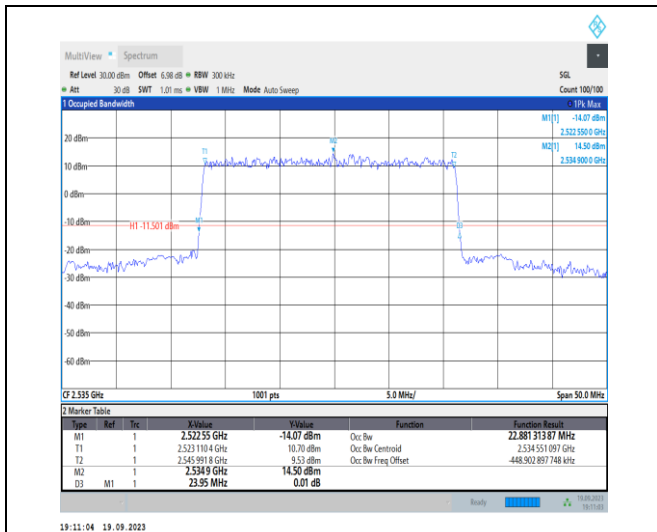
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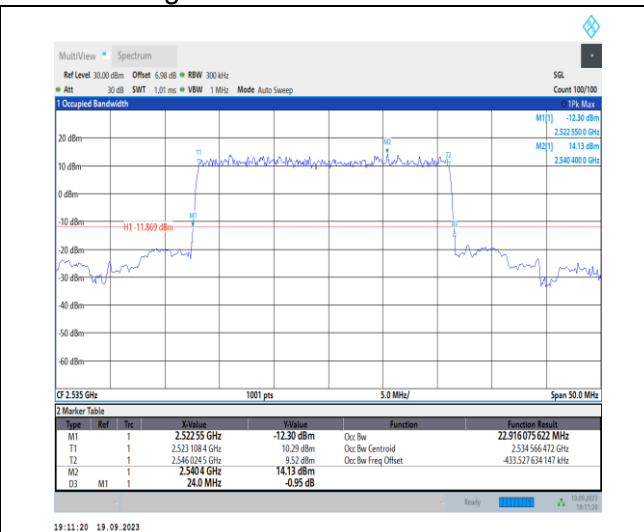
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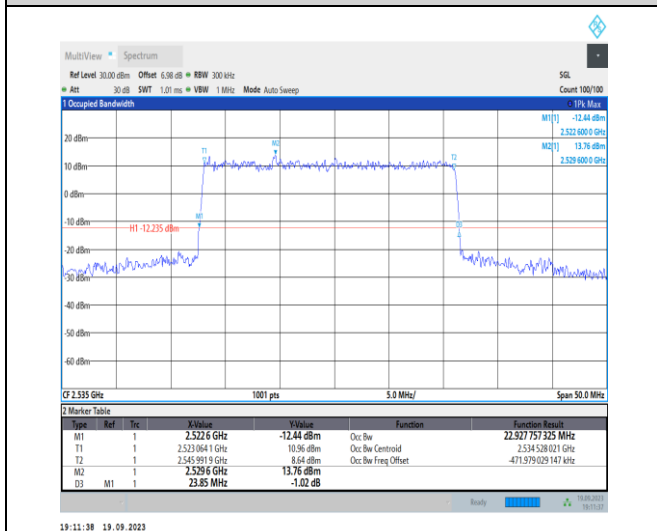
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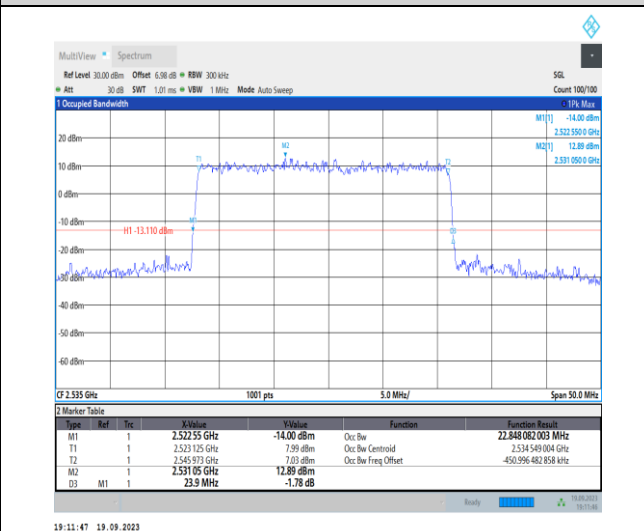
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 -Ant31-22.881-23.950-≤25-PASS



1-N7-PC3-15-25-M-2-DFT-PI2BPSK-Outer\_Full-128  
 @0-Ant31-22.916-24.000-≤25-PASS



1-N7-PC3-15-25-M-3-DFT-16QAM-Outer\_Full-128@  
 0-Ant31-22.928-23.850-≤25-PASS



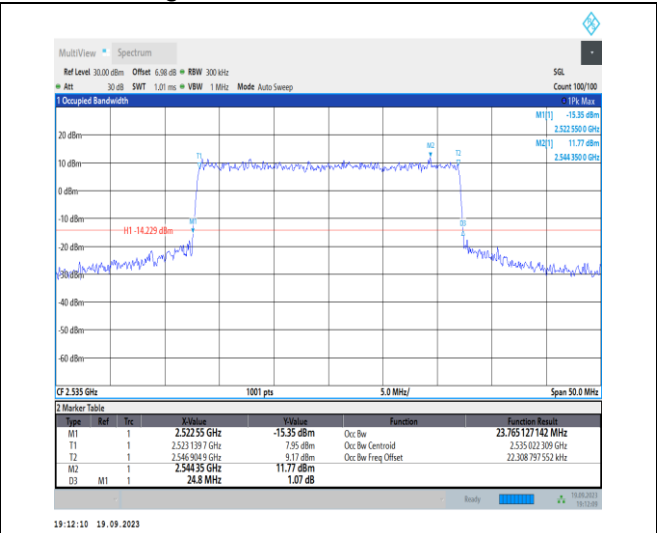
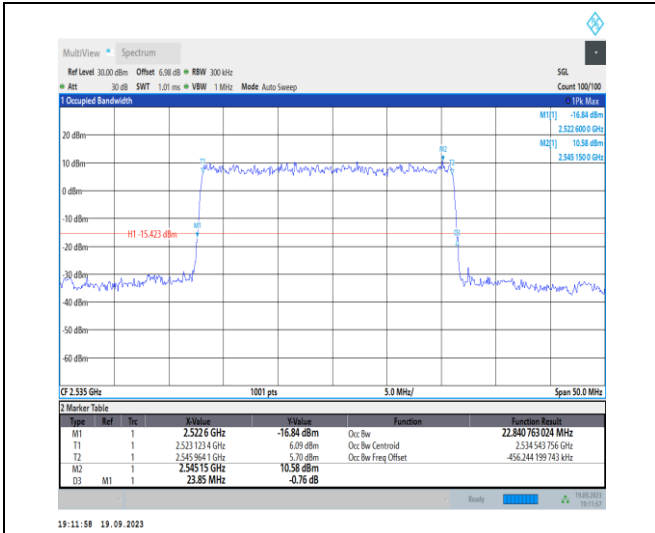
1-N7-PC3-15-25-M-4-DFT-64QAM-Outer\_Full-128@  
 0-Ant31-22.848-23.900-≤25-PASS



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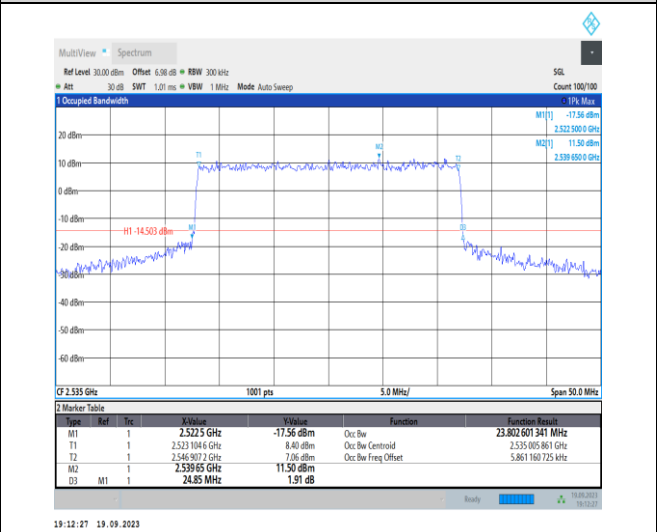
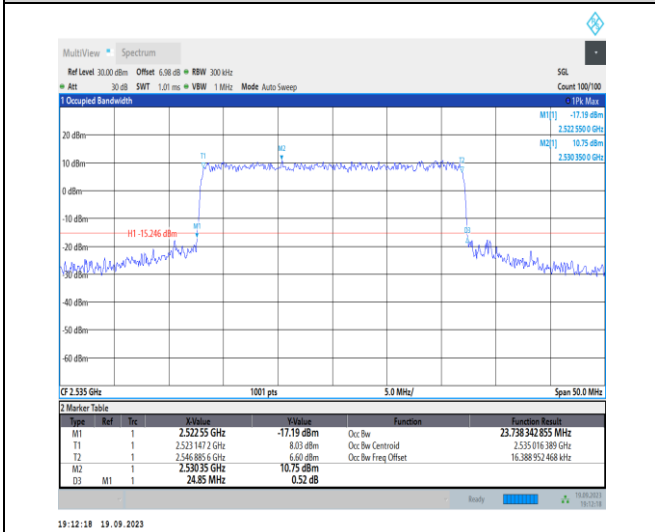
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1-N7-PC3-15-25-M-5-DFT-256QAM-Outer\_Full-128 @0-Ant31-22.841-23.850-≤25-PASS

1-N7-PC3-15-25-M-6-CP-QPSK-Outer\_Full-133@0-Ant31-23.765-24.800-≤25-PASS



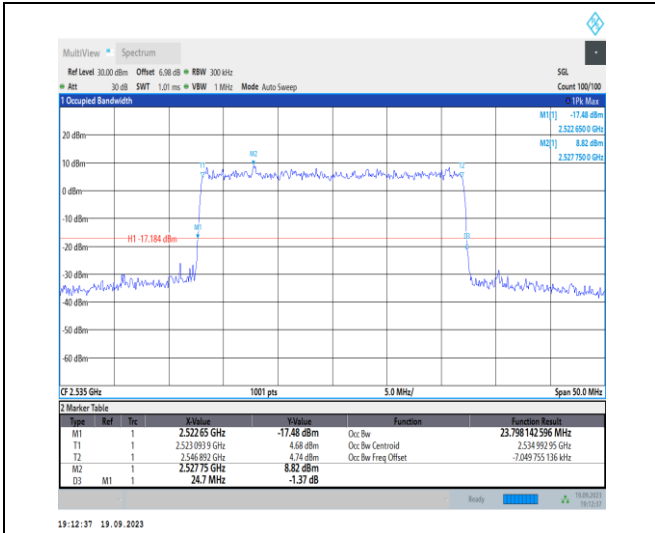
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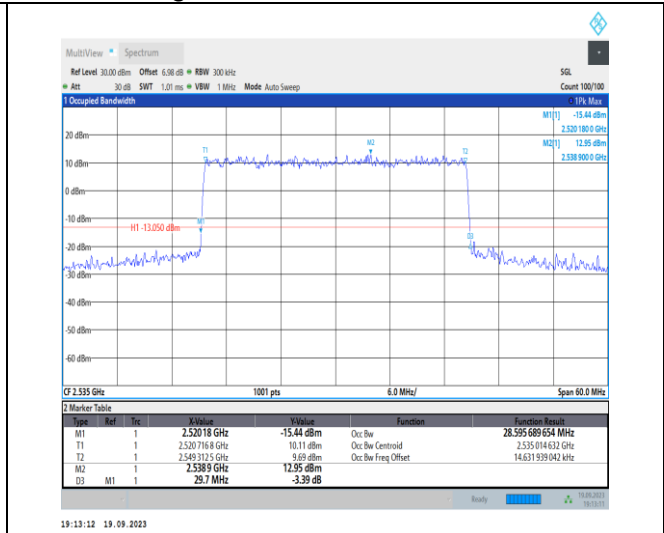


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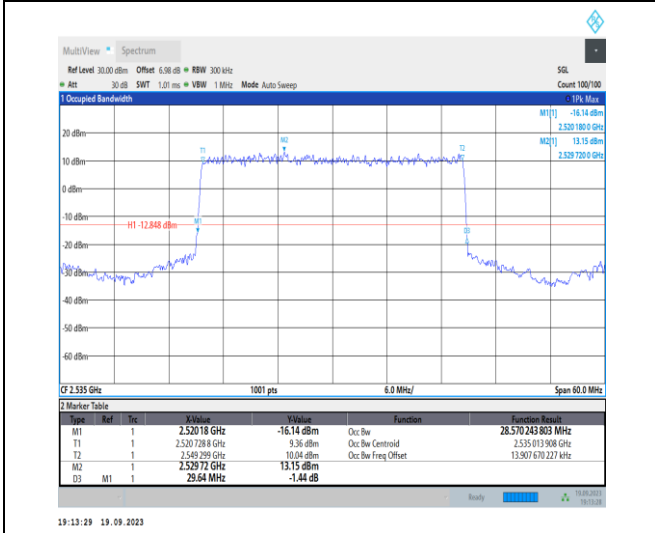
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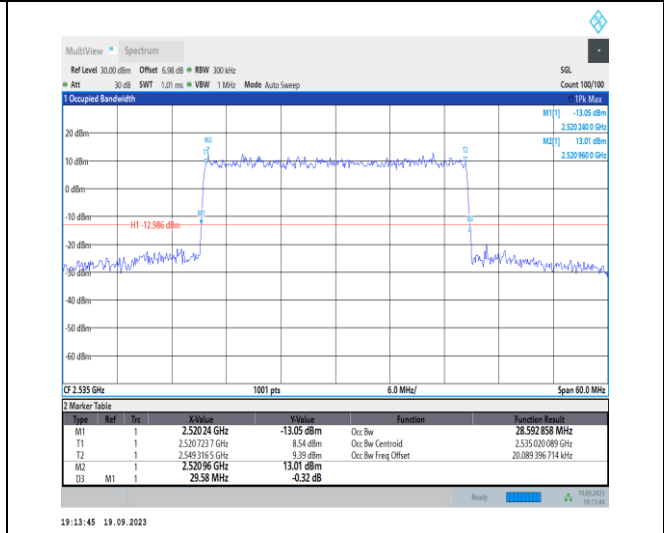
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-Ant31-28.596-29.700-≤30-PASS



1-N7-PC3-15-30-M-2-DFT-PI2BPSK-Outer\_Full-160  
@0-Ant31-28.57-29.640-≤30-PASS



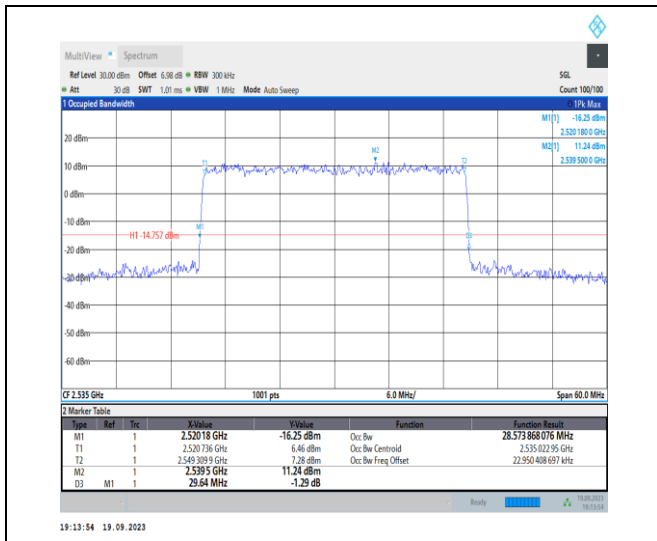
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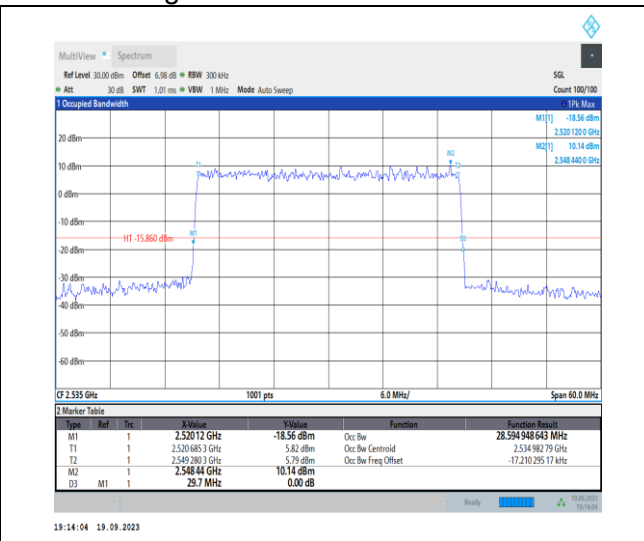
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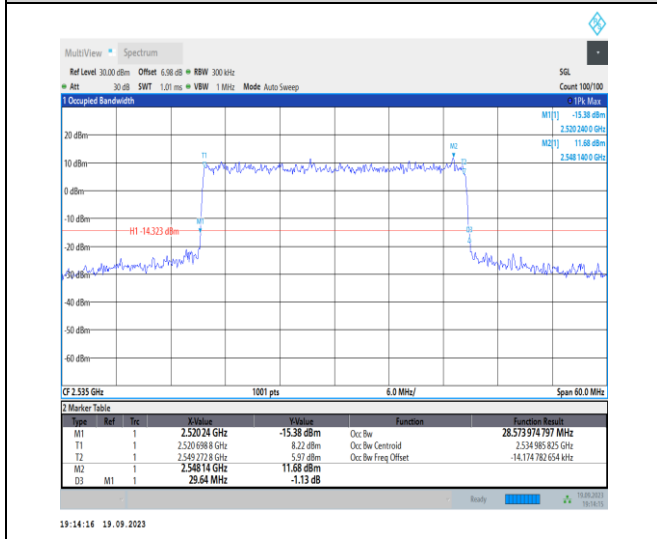
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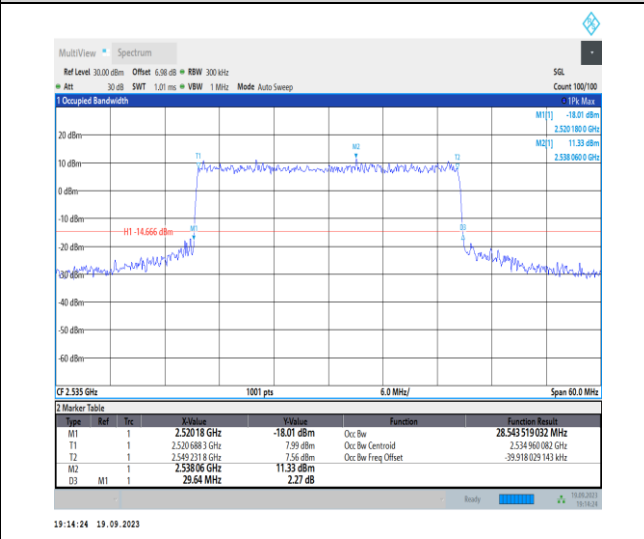
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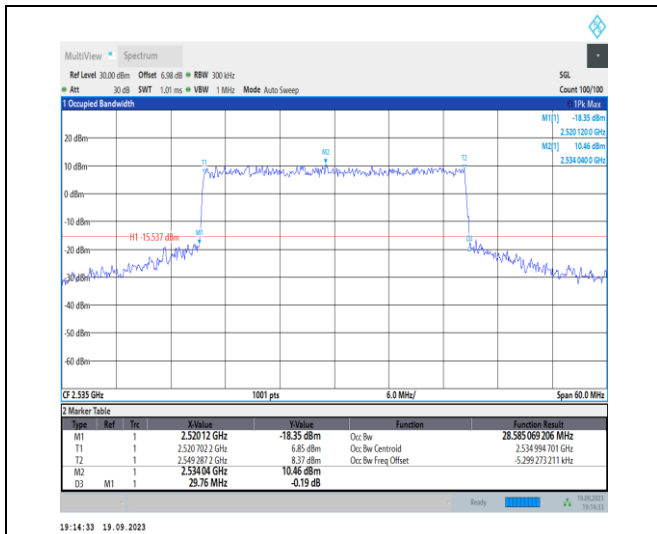


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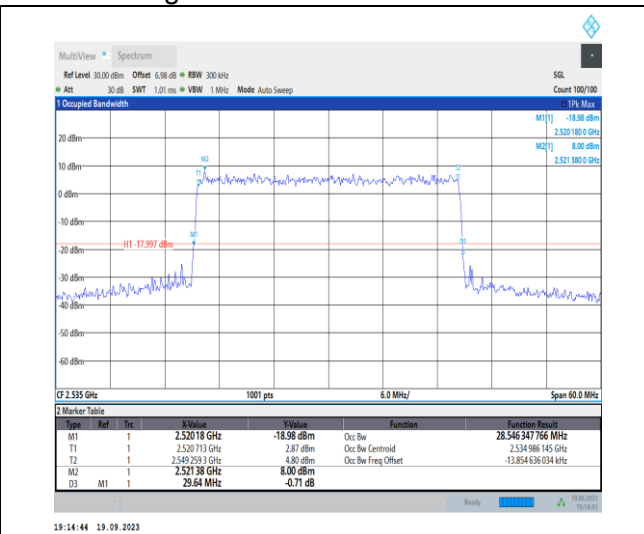
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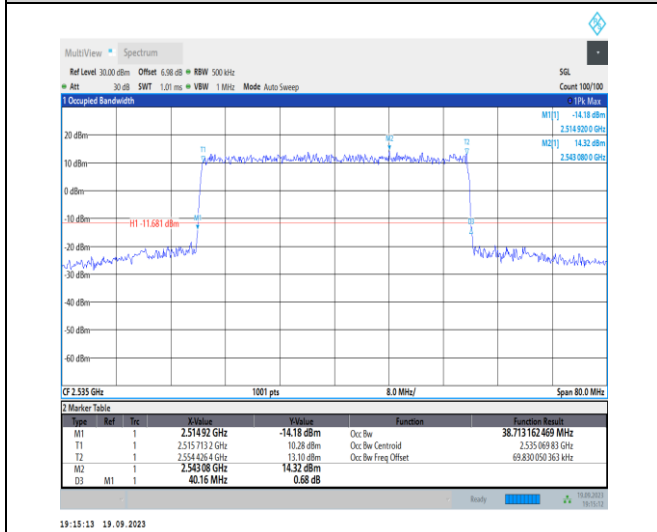
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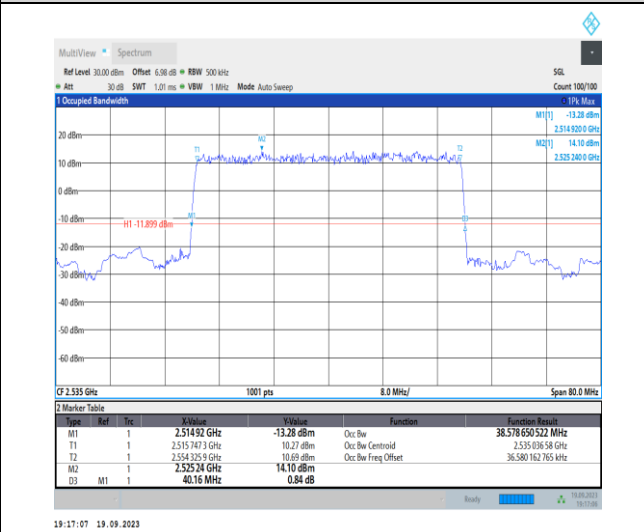
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-Ant31-28.546-29.640-≤30-PASS



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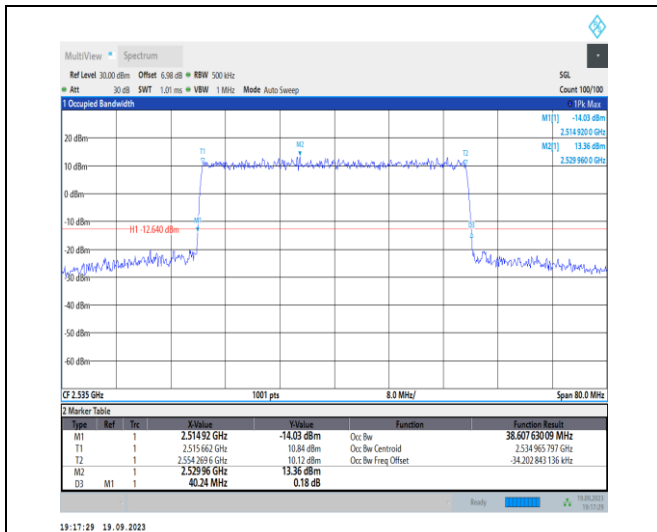
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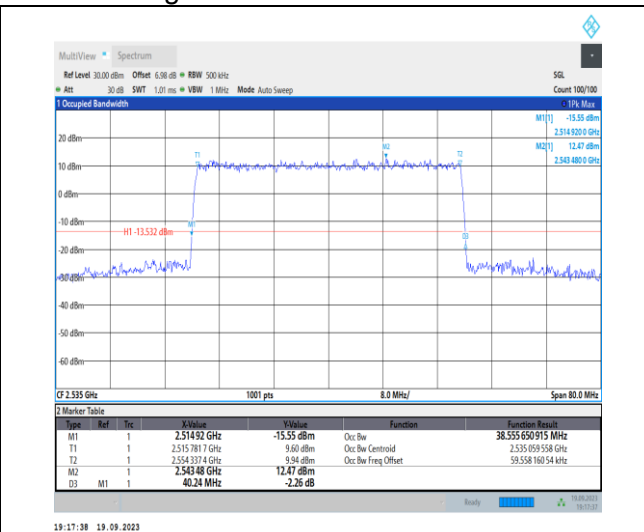
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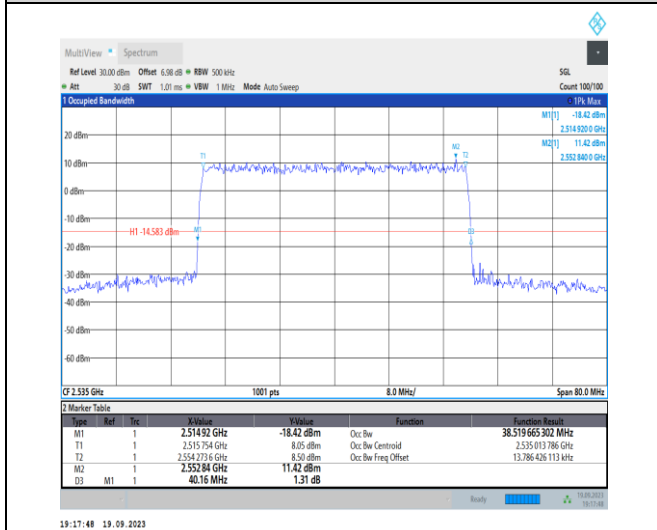
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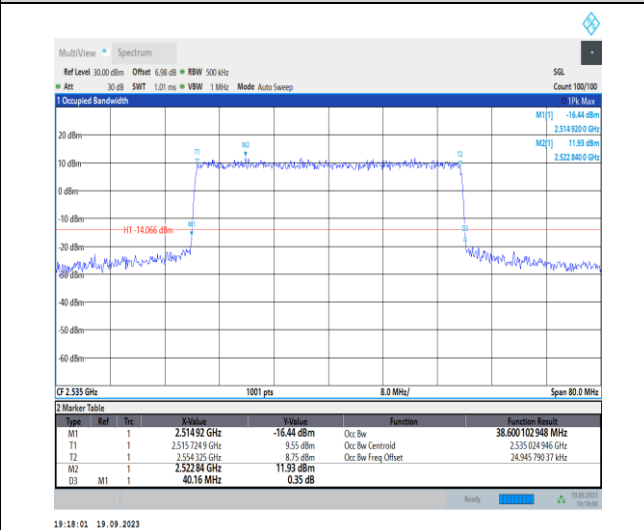
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@0-Ant31-38.52-40.160-≤40-PASS



1-N7-PC3-15-40-M-6-CP-QPSK-Outer\_Full-216@0-  
Ant31-38.6-40.160-≤40-PASS

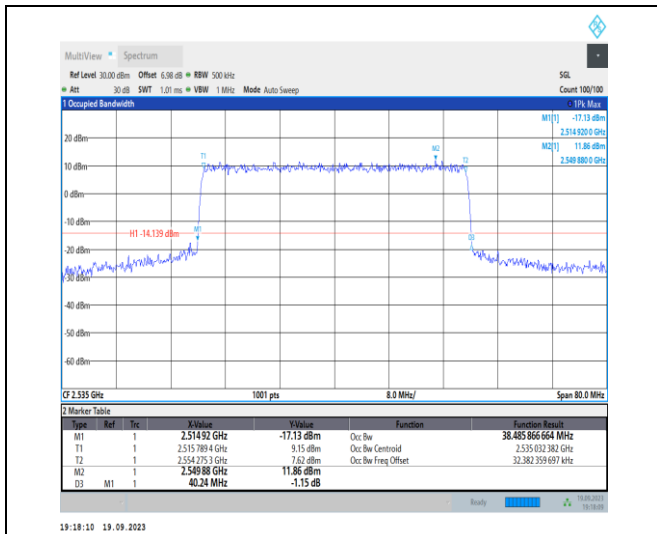


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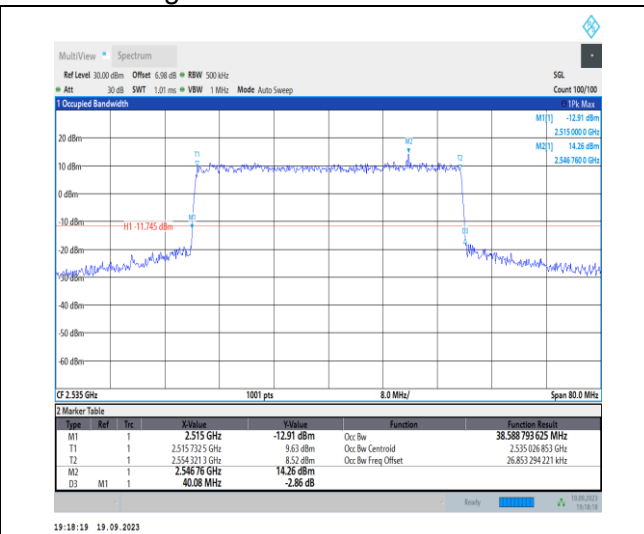
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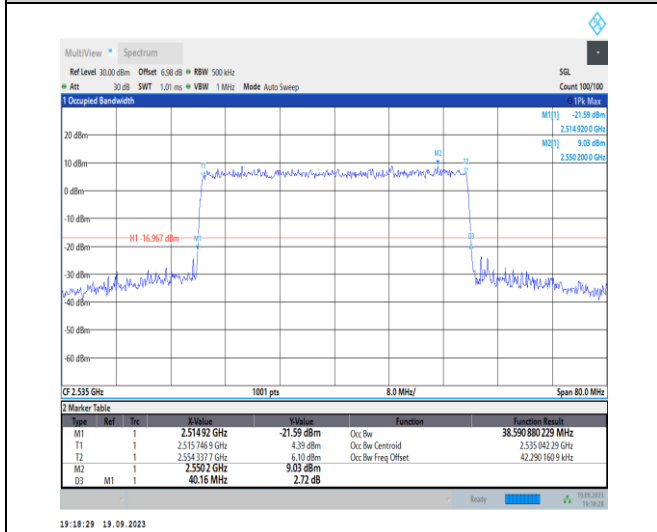




1-N7-PC3-15-40-M-7-CP-16QAM-Outer\_Full-216@0  
 -Ant31-38.486-40.240-≤40-PASS



1-N7-PC3-15-40-M-8-CP-64QAM-Outer\_Full-216@0  
 -Ant31-38.589-40.080-≤40-PASS



1-N7-PC3-15-40-M-9-CP-256QAM-Outer\_Full-216@0  
 -Ant31-38.591-40.160-≤40-PASS



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