

n77(3700-3980)	30	100	662000	135@67	DFT_QAM64	18.69	-2.6	16.09	40.64	1000	PASS
n77(3700-3980)	30	100	662000	1@1	DFT_QAM64	18.05	-2.6	15.45	35.08	1000	PASS
n77(3700-3980)	30	100	662000	1@271	DFT_QAM64	18.27	-2.6	15.67	36.9	1000	PASS
n77(3700-3980)	30	100	662000	270@0	DFT_QAM256	16.3	-2.6	13.7	23.44	1000	PASS
n77(3700-3980)	30	100	662000	135@67	DFT_QAM256	16.67	-2.6	14.07	25.53	1000	PASS
n77(3700-3980)	30	100	662000	1@1	DFT_QAM256	16.57	-2.6	13.97	24.95	1000	PASS
n77(3700-3980)	30	100	662000	1@271	DFT_QAM256	16.17	-2.6	13.57	22.75	1000	PASS
n77(3700-3980)	30	100	662000	273@0	CP_QPSK	18.02	-2.6	15.42	34.83	1000	PASS
n77(3700-3980)	30	100	662000	137@68	CP_QPSK	19.69	-2.6	17.09	51.17	1000	PASS
n77(3700-3980)	30	100	662000	1@1	CP_QPSK	19.05	-2.6	16.45	44.16	1000	PASS
n77(3700-3980)	30	100	662000	1@271	CP_QPSK	19.36	-2.6	16.76	47.42	1000	PASS
n77(3700-3980)	30	100	662000	273@0	CP_QAM16	19.62	-2.6	17.02	50.35	1000	PASS
n77(3700-3980)	30	100	662000	137@68	CP_QAM16	19.13	-2.6	16.53	44.98	1000	PASS
n77(3700-3980)	30	100	662000	1@1	CP_QAM16	19.42	-2.6	16.82	48.08	1000	PASS
n77(3700-3980)	30	100	662000	1@271	CP_QAM16	18.76	-2.6	16.16	41.3	1000	PASS
n77(3700-3980)	30	100	662000	273@0	CP_QAM64	17.51	-2.6	14.91	30.97	1000	PASS
n77(3700-3980)	30	100	662000	137@68	CP_QAM64	16.19	-2.6	13.59	22.86	1000	PASS
n77(3700-3980)	30	100	662000	1@1	CP_QAM64	16.75	-2.6	14.15	26	1000	PASS
n77(3700-3980)	30	100	662000	1@271	CP_QAM64	16.58	-2.6	13.98	25	1000	PASS
n77(3700-3980)	30	100	662000	273@0	CP_QAM256	14.49	-2.6	11.89	15.45	1000	PASS
n77(3700-3980)	30	100	662000	137@68	CP_QAM256	14.61	-2.6	12.01	15.89	1000	PASS
n77(3700-3980)	30	100	662000	1@1	CP_QAM256	14.02	-2.6	11.42	13.87	1000	PASS
n77(3700-3980)	30	100	662000	1@271	CP_QAM256	14.16	-2.6	11.56	14.32	1000	PASS

2 Frequency stability

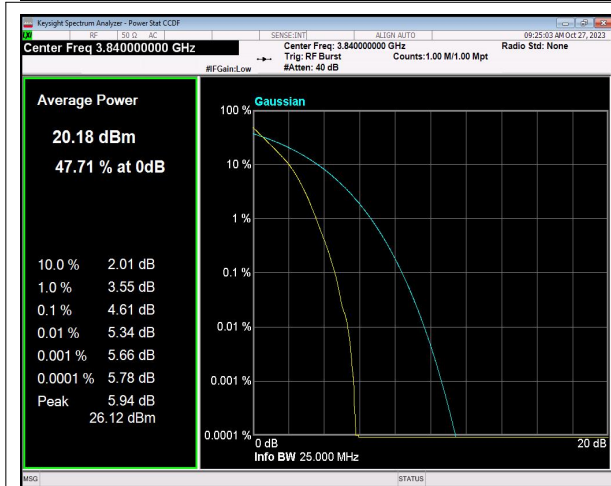
Condition		Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (Hz)	Result (ppm)	Verdict
Temperature (°C)	Voltage (V)									
20(Ref.)	3.0	n77(3700-3980)	30	100	656000	270@0	DFT_B PSK	-3.8	-0.00099	PASS
20(Ref.)	3.87	n77(3700-3980)	30	100	656000	270@0	DFT_B PSK	-1.7	-0.00044	PASS
20(Ref.)	4.35	n77(3700-3980)	30	100	656000	270@0	DFT_B PSK	-1.2	-0.00031	PASS
-30	3.87	n77(3700-3980)	30	100	656000	270@0	DFT_B PSK	-0.8	-0.00021	PASS
-20	3.87	n77(3700-3980)	30	100	656000	270@0	DFT_B PSK	-6.3	-0.00164	PASS
-10	3.87	n77(3700-3980)	30	100	656000	270@0	DFT_B PSK	-5.7	-0.00148	PASS
0	3.87	n77(3700-3980)	30	100	656000	270@0	DFT_B PSK	-4.5	-0.00117	PASS
10	3.87	n77(3700-3980)	30	100	656000	270@0	DFT_B PSK	-3.6	-0.00094	PASS
20(Ref.)	3.87	n77(3700-3980)	30	100	656000	270@0	DFT_B PSK	-1.7	-0.00044	PASS
30	3.87	n77(3700-3980)	30	100	656000	270@0	DFT_B PSK	-2.7	-0.00007	PASS
40	3.87	n77(3700-3980)	30	100	656000	270@0	DFT_B PSK	-1.8	-0.00047	PASS
50	3.87	n77(3700-3980)	30	100	656000	270@0	DFT_B PSK	-4.8	-0.00125	PASS

Note:

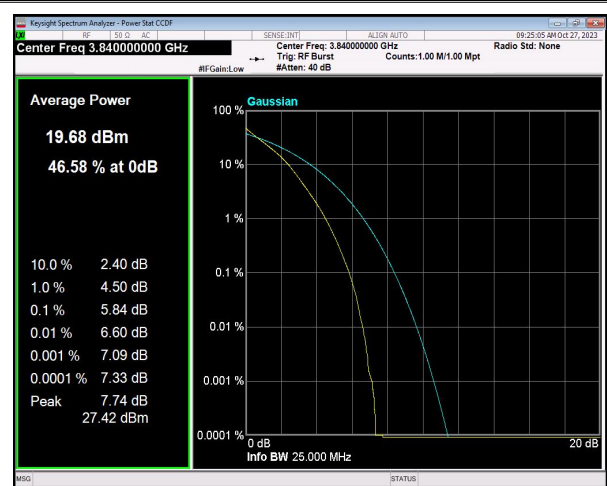
1. Normal Voltage = 3.87 V, Battery End Point (BEP) = 3.0 V, Maximum Voltage = 4.35 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

3 Peak-to-Average Ratio

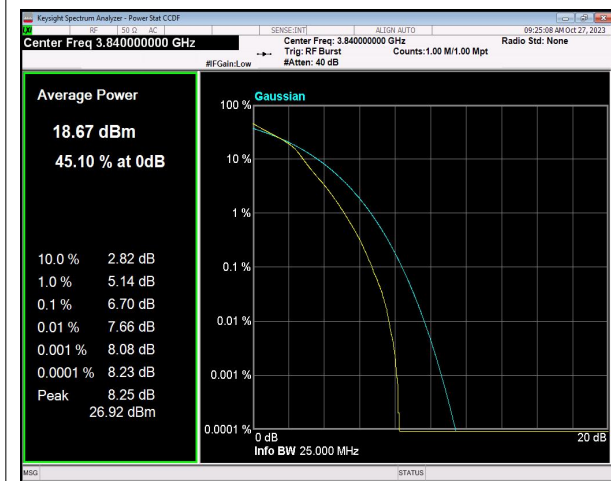
Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	RB Allocation	Modulation	Result (dB)	high Limit (dB)	Verdict
n77(3700-3980)	30	20	656000	50@0	DFT_BPSK	4.61	13	PASS
n77(3700-3980)	30	20	656000	50@0	DFT_QPSK	5.84	13	PASS
n77(3700-3980)	30	20	656000	50@0	DFT_QAM16	6.70	13	PASS
n77(3700-3980)	30	20	656000	50@0	DFT_QAM64	6.77	13	PASS
n77(3700-3980)	30	20	656000	50@0	DFT_QAM256	6.56	13	PASS



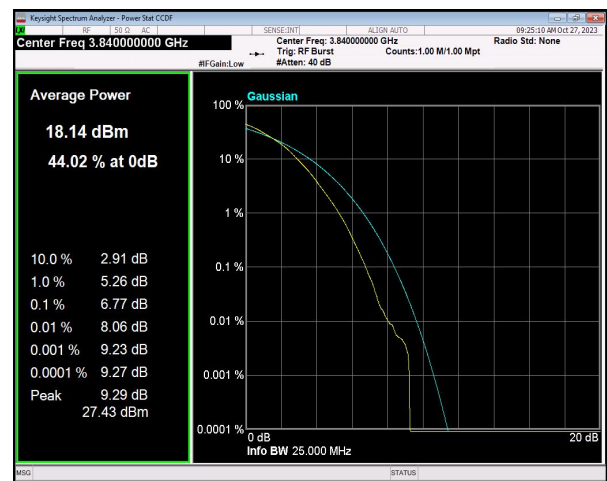
n77(3700-3980) SCS=30kHz DFT_BPSK BW=20MHz
Channel=656000 RB=50@0



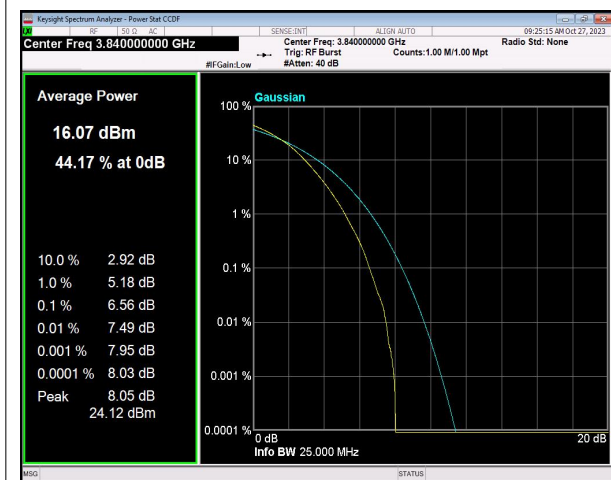
n77(3700-3980) SCS=30kHz DFT_QPSK BW=20MHz
Channel=656000 RB=50@0



n77(3700-3980) SCS=30kHz DFT_QAM16 BW=20MHz
Channel=656000 RB=50@0



n77(3700-3980) SCS=30kHz DFT_QAM64 BW=20MHz
Channel=656000 RB=50@0

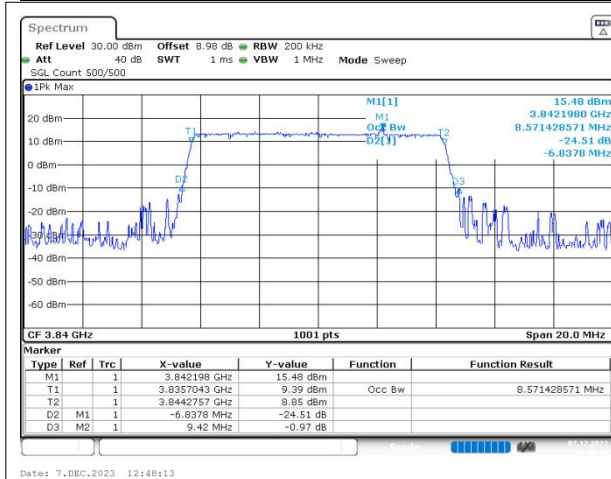


n77(3700-3980) SCS=30kHz DFT_QAM256 BW=20MHz
Channel=656000 RB=50@0

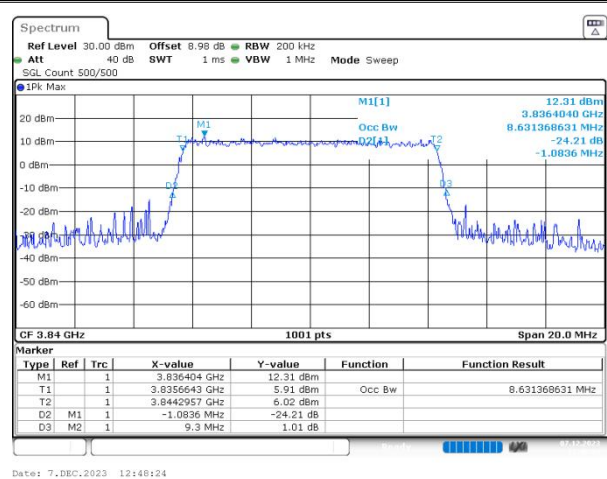
4 Occupied bandwidth

Band	SCS (kHz)	Bandwidth (MHz)	UL Channel	UL Frequency (MHz)	RB Allocation	Modulation	99% OBW (MHz)	-26dB EBW (MHz)	Verdict
n77(3700-3980)	30	10	656000	3840	24@0	DFT_BPSK	8.571	9.420	PASS
n77(3700-3980)	30	10	656000	3840	24@0	CP_QPSK	8.631	9.300	PASS
n77(3700-3980)	30	10	656000	3840	24@0	CP_QAM16	8.591	10.320	PASS
n77(3700-3980)	30	10	656000	3840	24@0	CP_QAM64	8.611	9.260	PASS
n77(3700-3980)	30	10	656000	3840	24@0	CP_QAM256	8.631	9.460	PASS
n77(3700-3980)	30	15	656000	3840	36@0	DFT_BPSK	12.947	13.980	PASS
n77(3700-3980)	30	15	656000	3840	38@0	CP_QPSK	13.636	14.520	PASS
n77(3700-3980)	30	15	656000	3840	38@0	CP_QAM16	13.606	14.610	PASS
n77(3700-3980)	30	15	656000	3840	38@0	CP_QAM64	13.576	14.610	PASS
n77(3700-3980)	30	15	656000	3840	38@0	CP_QAM256	13.606	14.670	PASS
n77(3700-3980)	30	20	656000	3840	50@0	DFT_BPSK	18.022	19.840	PASS
n77(3700-3980)	30	20	656000	3840	51@0	CP_QPSK	18.342	20.320	PASS
n77(3700-3980)	30	20	656000	3840	51@0	CP_QAM16	18.342	19.440	PASS
n77(3700-3980)	30	20	656000	3840	51@0	CP_QAM64	18.302	19.560	PASS
n77(3700-3980)	30	20	656000	3840	51@0	CP_QAM256	18.262	19.520	PASS
n77(3700-3980)	30	40	656000	3840	100@0	DFT_BPSK	35.964	38.160	PASS
n77(3700-3980)	30	40	656000	3840	106@0	CP_QPSK	38.042	40.480	PASS
n77(3700-3980)	30	40	656000	3840	106@0	CP_QAM16	37.962	42.400	PASS
n77(3700-3980)	30	40	656000	3840	106@0	CP_QAM64	37.962	40.960	PASS
n77(3700-3980)	30	40	656000	3840	106@0	CP_QAM256	37.962	40.560	PASS
n77(3700-3980)	30	50	656000	3840	128@0	DFT_BPSK	45.954	49.500	PASS
n77(3700-3980)	30	50	656000	3840	133@0	CP_QPSK	47.652	51.500	PASS
n77(3700-3980)	30	50	656000	3840	133@0	CP_QAM16	47.652	52.600	PASS
n77(3700-3980)	30	50	656000	3840	133@0	CP_QAM64	47.552	53.000	PASS
n77(3700-3980)	30	50	656000	3840	133@0	CP_QAM256	47.652	50.200	PASS
n77(3700-3980)	30	60	656000	3840	162@0	DFT_BPSK	58.382	62.520	PASS
n77(3700-3980)	30	60	656000	3840	162@0	CP_QPSK	58.382	62.520	PASS
n77(3700-3980)	30	60	656000	3840	162@0	CP_QAM16	58.382	62.640	PASS
n77(3700-3980)	30	60	656000	3840	162@0	CP_QAM64	58.621	64.800	PASS
n77(3700-3980)	30	60	656000	3840	162@0	CP_QAM256	58.382	62.520	PASS
n77(3700-3980)	30	70	656000	3840	180@0	DFT_BPSK	64.755	69.160	PASS
n77(3700-3980)	30	70	656000	3840	189@0	CP_QPSK	67.832	72.240	PASS
n77(3700-3980)	30	70	656000	3840	189@0	CP_QAM16	67.832	72.100	PASS
n77(3700-3980)	30	70	656000	3840	189@0	CP_QAM64	67.972	73.220	PASS
n77(3700-3980)	30	70	656000	3840	189@0	CP_QAM256	67.832	72.520	PASS
n77(3700-3980)	30	80	656000	3840	216@0	DFT_BPSK	77.522	81.920	PASS

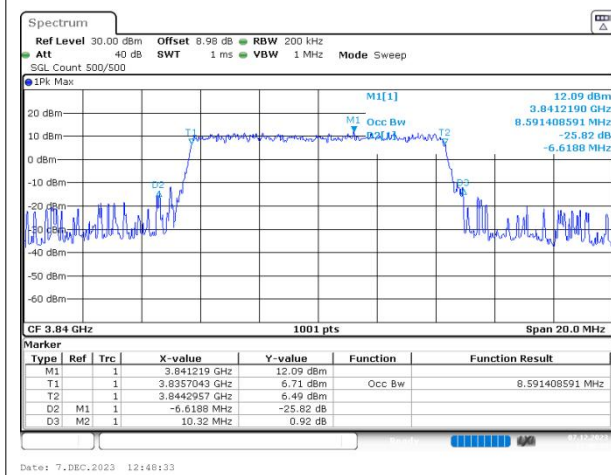
n77(3700-3980)	30	80	656000	3840	217@0	CP_QPSK	77.842	83.520	PASS
n77(3700-3980)	30	80	656000	3840	217@0	CP_QAM16	78.002	82.400	PASS
n77(3700-3980)	30	80	656000	3840	217@0	CP_QAM64	77.842	82.720	PASS
n77(3700-3980)	30	80	656000	3840	217@0	CP_QAM256	78.002	82.400	PASS
n77(3700-3980)	30	90	656000	3840	240@0	DFT_BPSK	85.954	90.900	PASS
n77(3700-3980)	30	90	656000	3840	245@0	CP_QPSK	87.572	96.480	PASS
n77(3700-3980)	30	90	656000	3840	245@0	CP_QAM16	87.572	92.520	PASS
n77(3700-3980)	30	90	656000	3840	245@0	CP_QAM64	87.752	92.340	PASS
n77(3700-3980)	30	90	656000	3840	245@0	CP_QAM256	87.752	92.700	PASS
n77(3700-3980)	30	100	656000	3840	270@0	DFT_BPSK	96.503	101.200	PASS
n77(3700-3980)	30	100	656000	3840	273@0	CP_QPSK	97.303	103.000	PASS
n77(3700-3980)	30	100	656000	3840	273@0	CP_QAM16	97.303	102.600	PASS
n77(3700-3980)	30	100	656000	3840	273@0	CP_QAM64	97.502	107.600	PASS
n77(3700-3980)	30	100	656000	3840	273@0	CP_QAM256	97.303	102.600	PASS



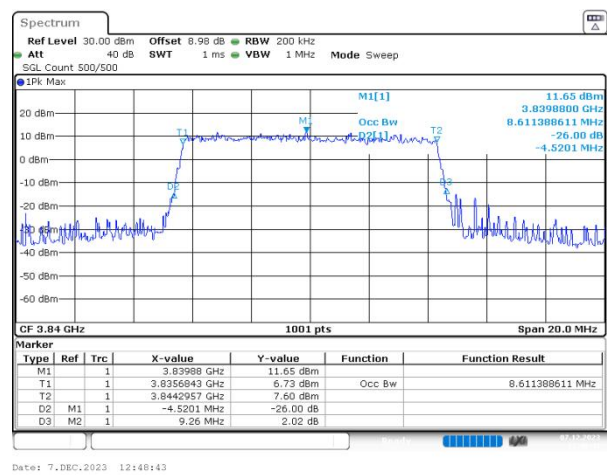
n77(3700-3980) SCS=30kHz DFT_BPSK BW=10MHz
Channel=656000 RB=24@0



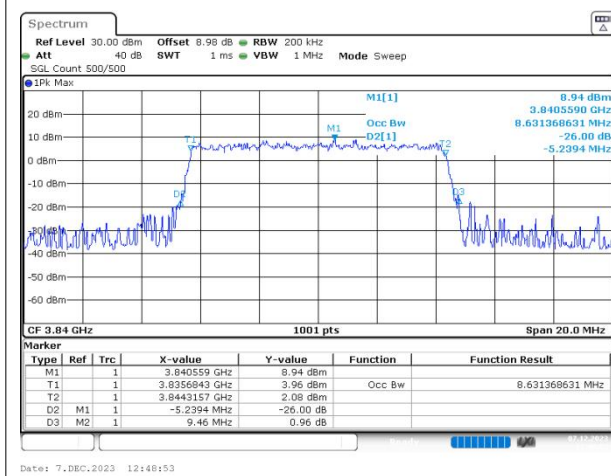
n77(3700-3980) SCS=30kHz CP_QPSK BW=10MHz
Channel=656000 RB=24@0



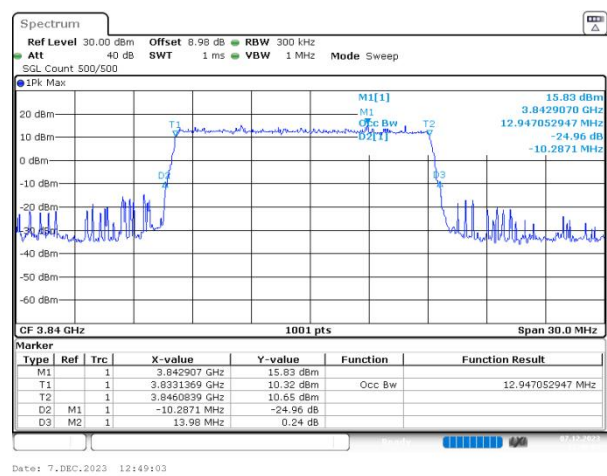
n77(3700-3980) SCS=30kHz CP_16QAM BW=10MHz
Channel=656000 RB=24@0



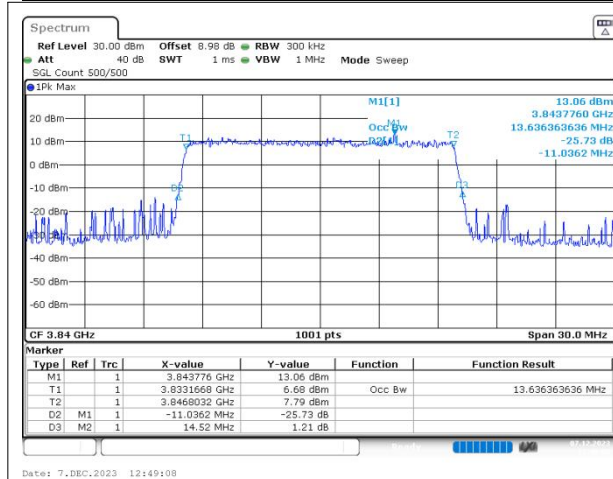
n77(3700-3980) SCS=30kHz CP_64QAM BW=10MHz
Channel=656000 RB=24@0



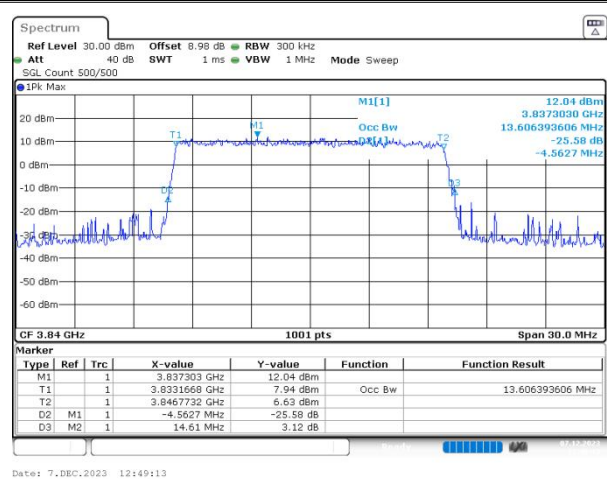
n77(3700-3980) SCS=30kHz CP_256QAM BW=10MHz
Channel=656000 RB=24@0



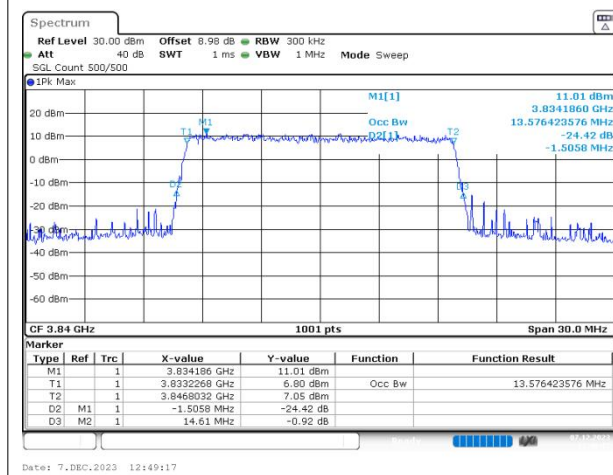
n77(3700-3980) SCS=30kHz DFT_BPSK BW=15MHz
Channel=656000 RB=36@0



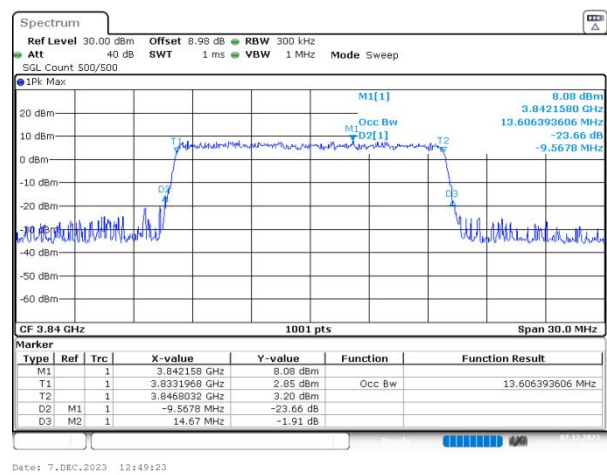
n77(3700-3980) SCS=30kHz CP_QPSK BW=15MHz
Channel=656000 RB=38@0



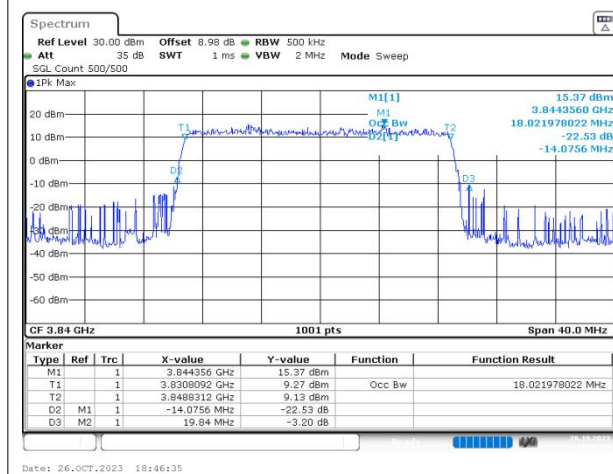
n77(3700-3980) SCS=30kHz CP_16QAM BW=15MHz
Channel=656000 RB=38@0



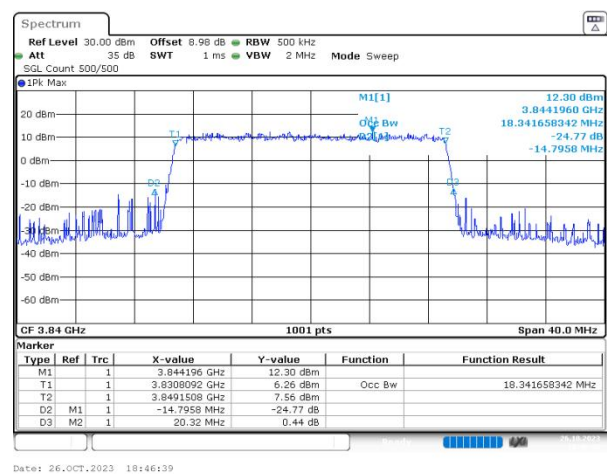
n77(3700-3980) SCS=30kHz CP_64QAM BW=15MHz
Channel=656000 RB=38@0



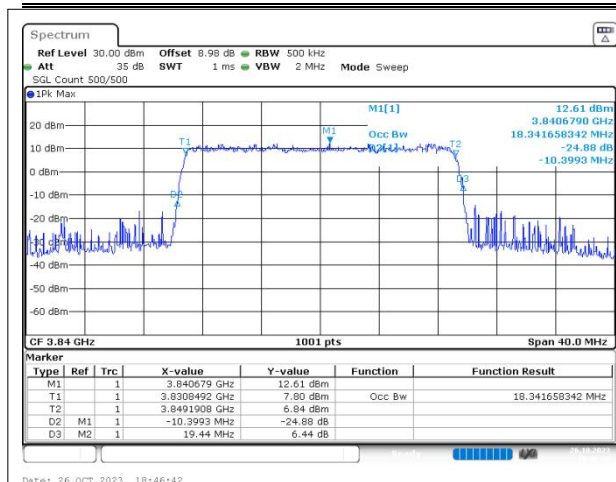
n77(3700-3980) SCS=30kHz CP_256QAM BW=15MHz
Channel=656000 RB=38@0



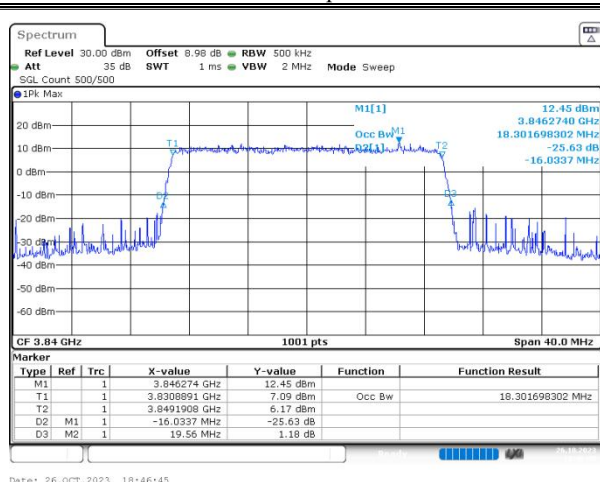
n77(3700-3980) SCS=30kHz DFT_BPSK BW=20MHz
Channel=656000 RB=50@0



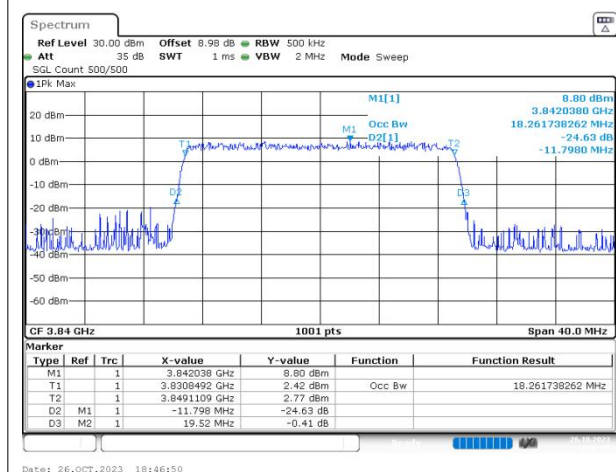
n77(3700-3980) SCS=30kHz CP_QPSK BW=20MHz
Channel=656000 RB=51@0



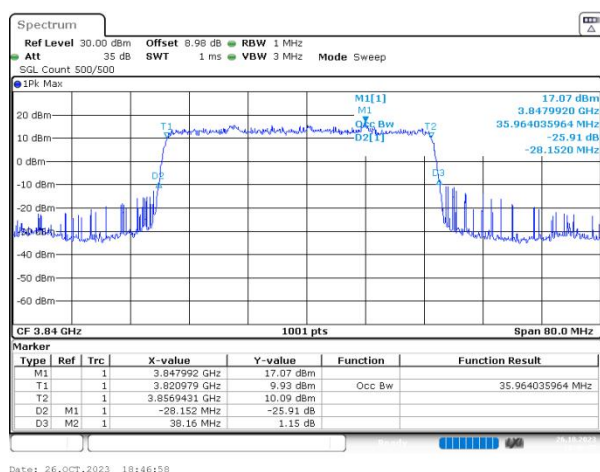
n77(3700-3980) SCS=30kHz CP_QAM16 BW=20MHz
Channel=656000 RB=51@0



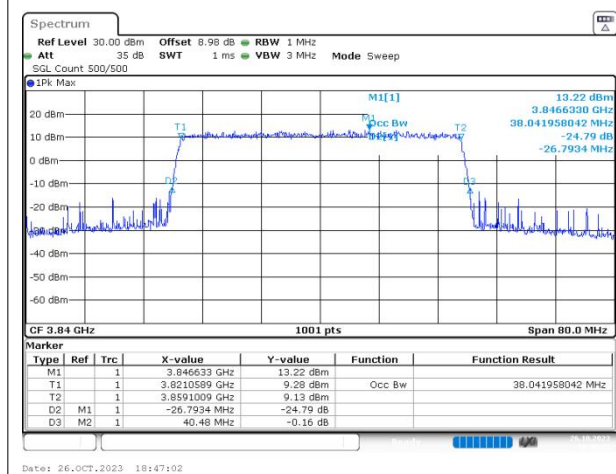
n77(3700-3980) SCS=30kHz CP_QAM64 BW=20MHz
Channel=656000 RB=51@0



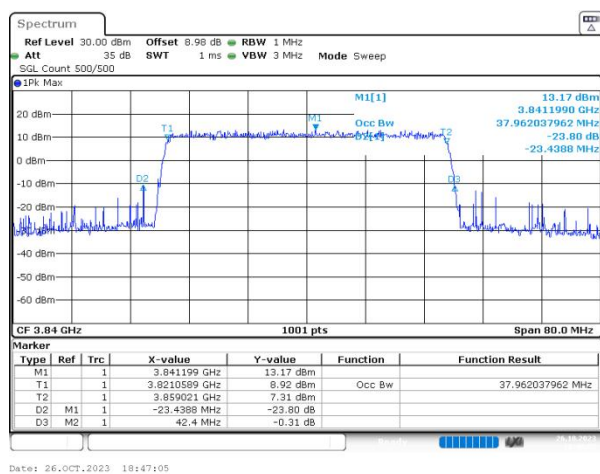
n77(3700-3980) SCS=30kHz CP_QAM256 BW=20MHz
Channel=656000 RB=51@0



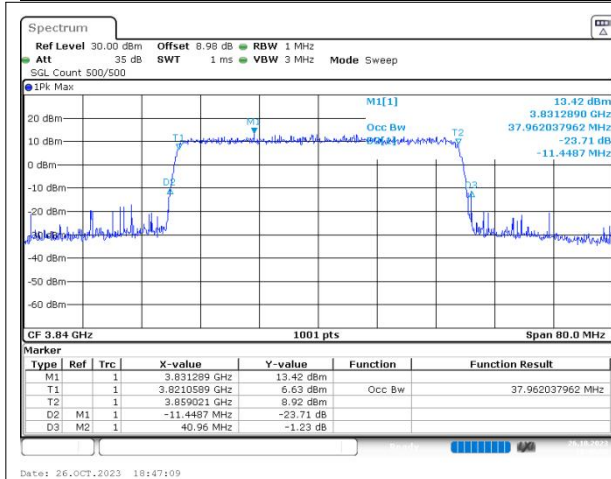
n77(3700-3980) SCS=30kHz DFT_BPSK BW=40MHz
Channel=656000 RB=100@0



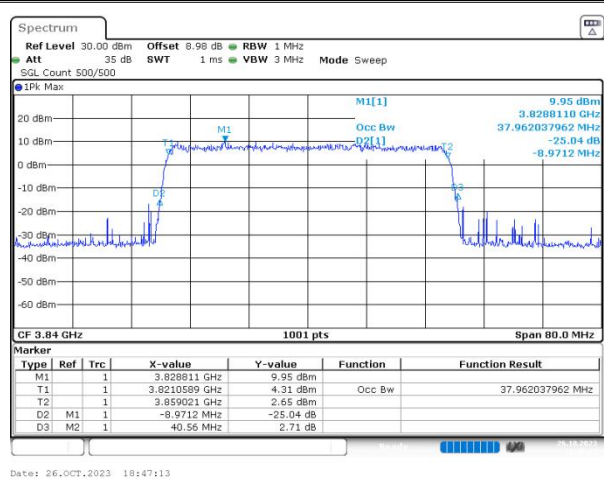
n77(3700-3980) SCS=30kHz CP_QPSK BW=40MHz
Channel=656000 RB=106@0



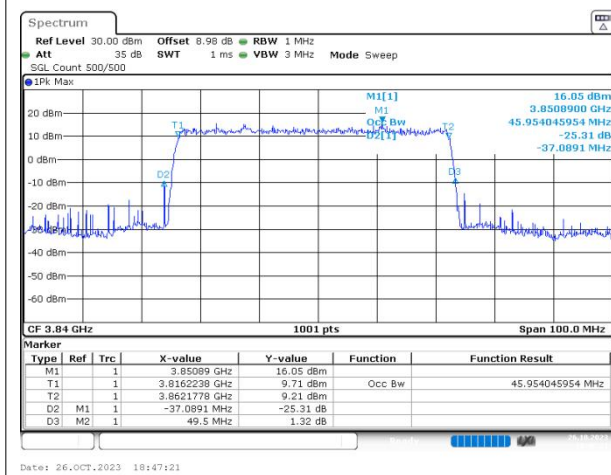
n77(3700-3980) SCS=30kHz CP_QAM16 BW=40MHz
Channel=656000 RB=106@0



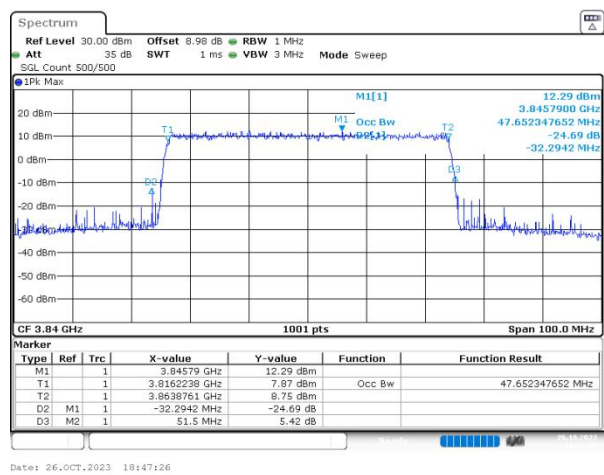
n77(3700-3980) SCS=30kHz CP_QAM64 BW=40MHz
Channel=656000 RB=106@0



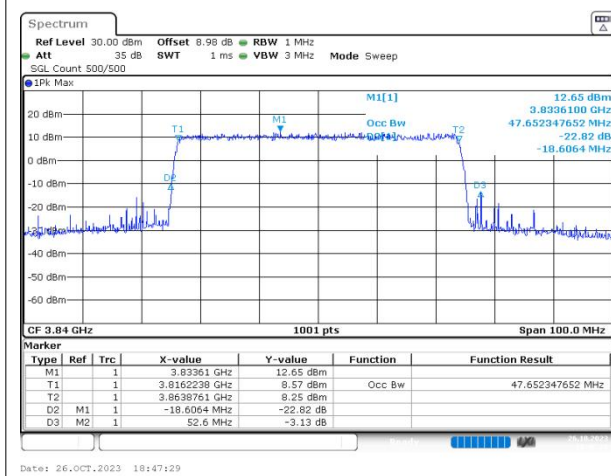
n77(3700-3980) SCS=30kHz CP_QAM256 BW=40MHz
Channel=656000 RB=106@0



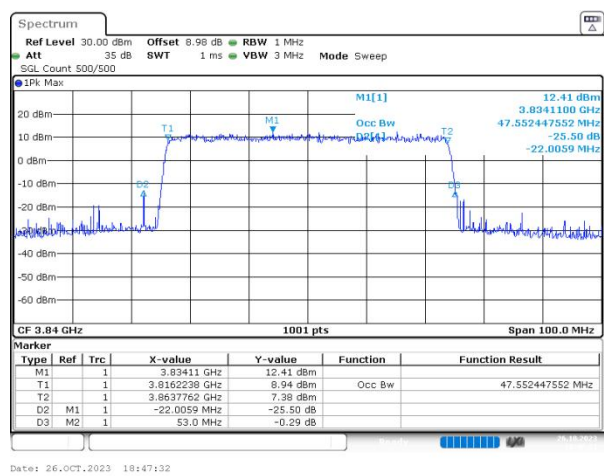
n77(3700-3980) SCS=30kHz DFT_BPSK BW=50MHz
Channel=656000 RB=128@0



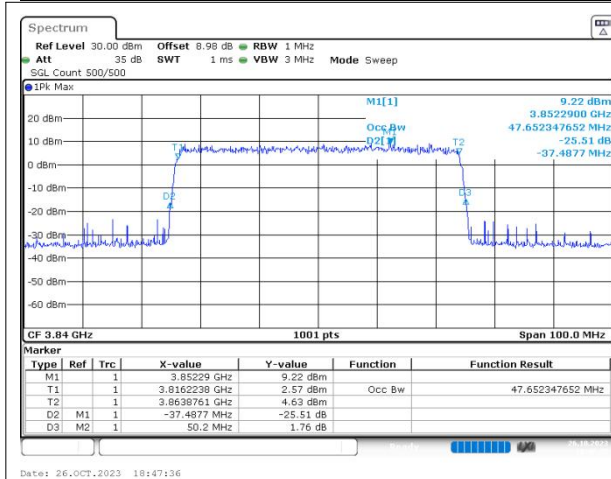
n77(3700-3980) SCS=30kHz CP_QPSK BW=50MHz
Channel=656000 RB=133@0



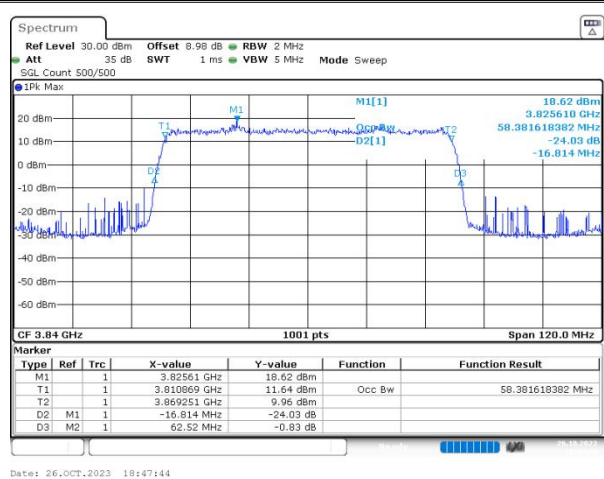
n77(3700-3980) SCS=30kHz CP_QAM16 BW=50MHz
Channel=656000 RB=133@0



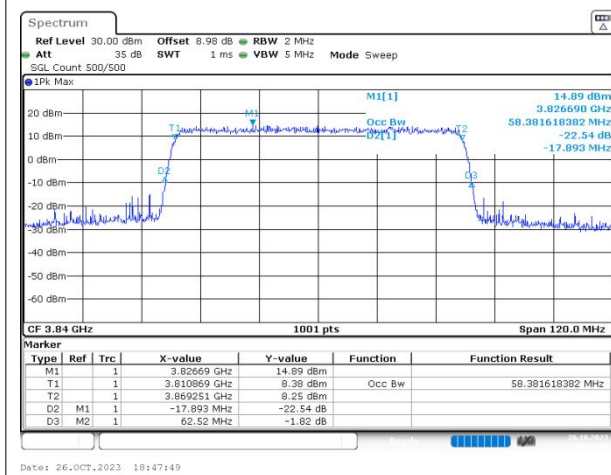
n77(3700-3980) SCS=30kHz CP_QAM64 BW=50MHz
Channel=656000 RB=133@0



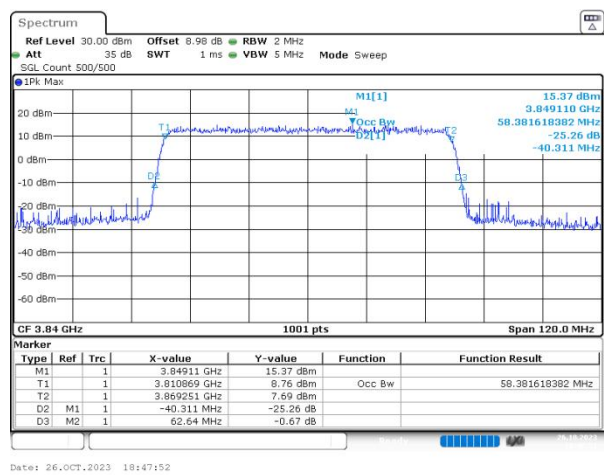
n77(3700-3980) SCS=30kHz CP_QAM256 BW=50MHz
Channel=656000 RB=133@0



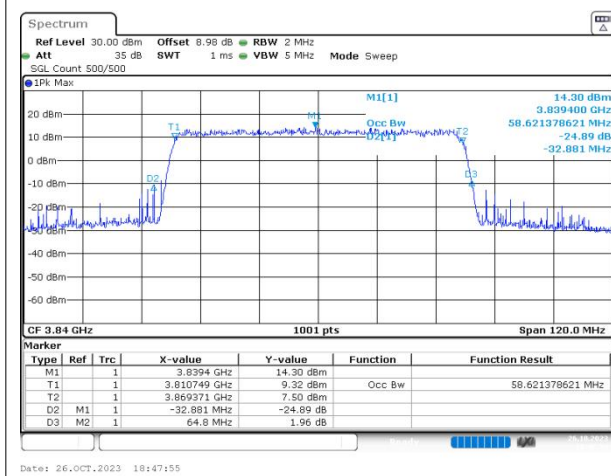
n77(3700-3980) SCS=30kHz DFT_BPSK BW=60MHz
Channel=656000 RB=162@0



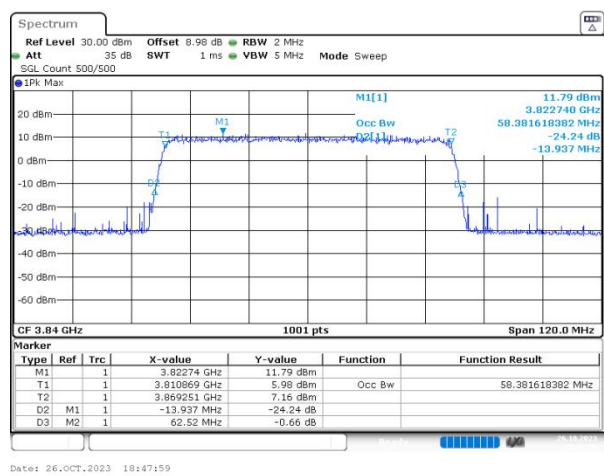
n77(3700-3980) SCS=30kHz CP_QPSK BW=60MHz
Channel=656000 RB=162@0



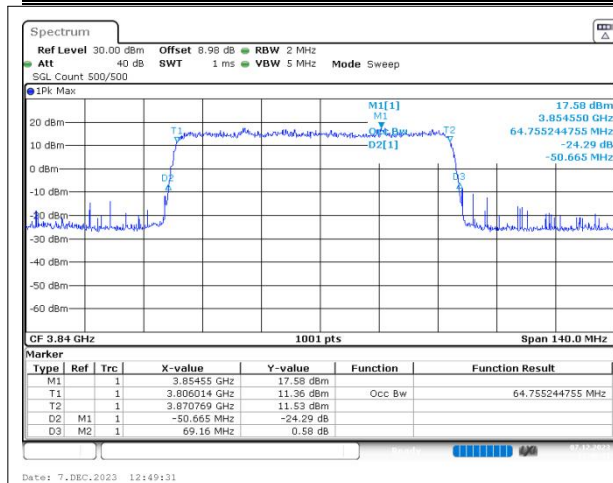
n77(3700-3980) SCS=30kHz CP_QAM16 BW=60MHz
Channel=656000 RB=162@0



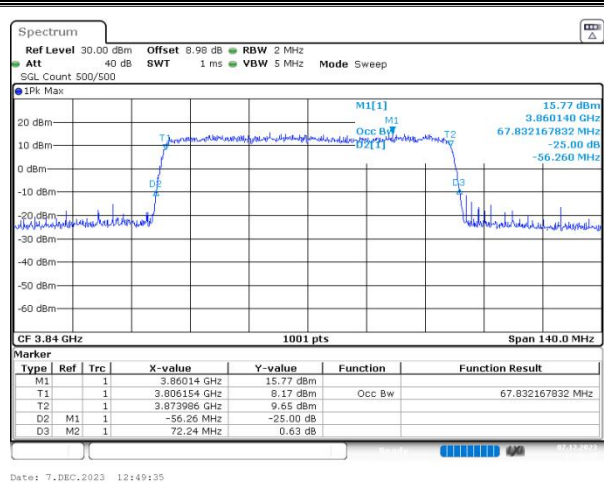
n77(3700-3980) SCS=30kHz CP_QAM64 BW=60MHz
Channel=656000 RB=162@0



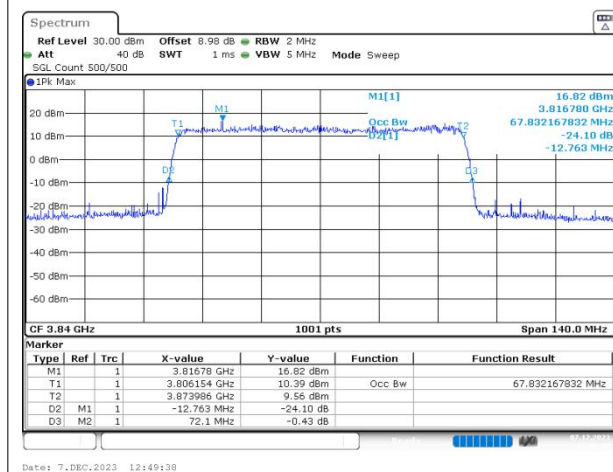
n77(3700-3980) SCS=30kHz CP_QAM256 BW=60MHz
Channel=656000 RB=162@0



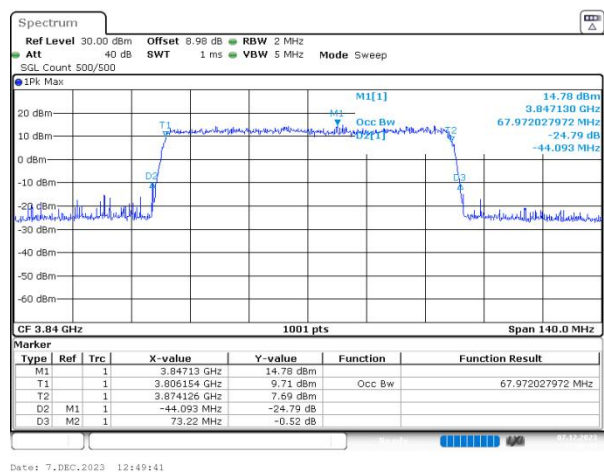
n77(3700-3980) SCS=30kHz DFT_BPSK BW=70MHz
Channel=656000 RB=180@0



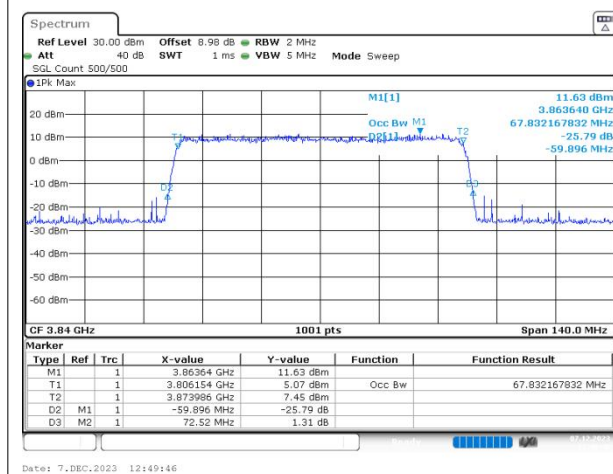
n77(3700-3980) SCS=30kHz CP_QPSK BW=70MHz
Channel=656000 RB=189@0



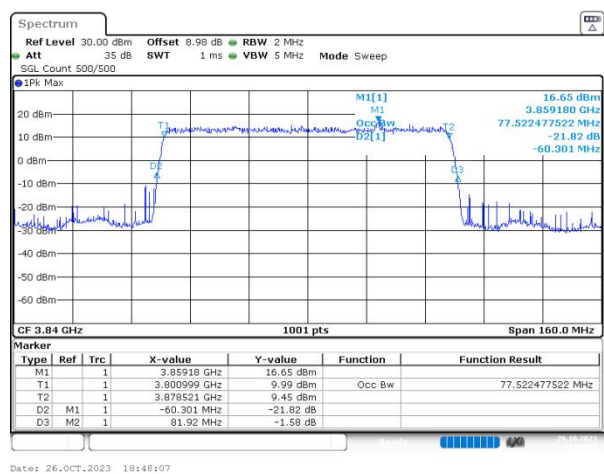
n77(3700-3980) SCS=30kHz CP_16QAM BW=70MHz
Channel=656000 RB=189@0



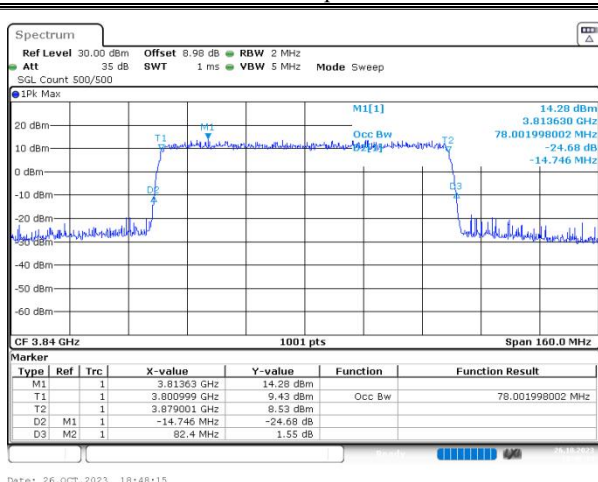
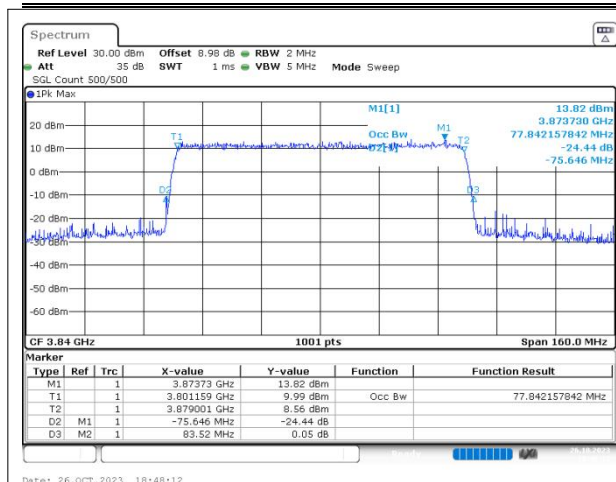
n77(3700-3980) SCS=30kHz CP_64QAM BW=70MHz
Channel=656000 RB=189@0



n77(3700-3980) SCS=30kHz CP_256QAM BW=70MHz
Channel=656000 RB=189@0

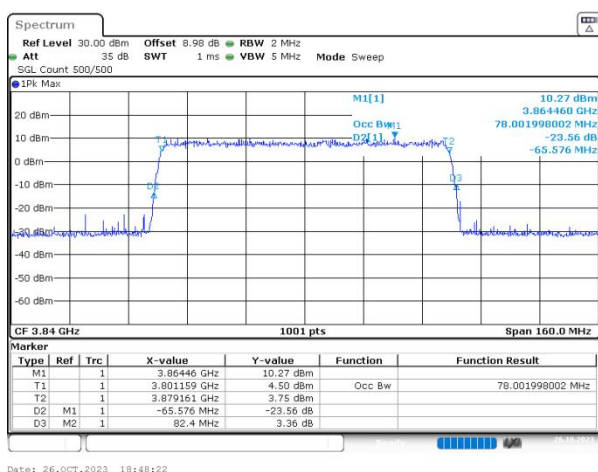
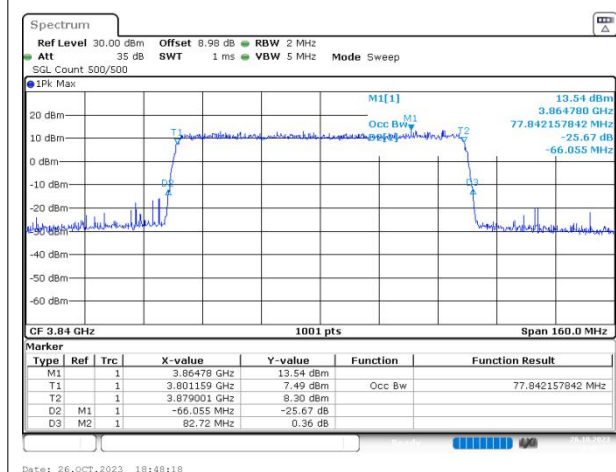


n77(3700-3980) SCS=30kHz DFT_BPSK BW=80MHz
Channel=656000 RB=216@0



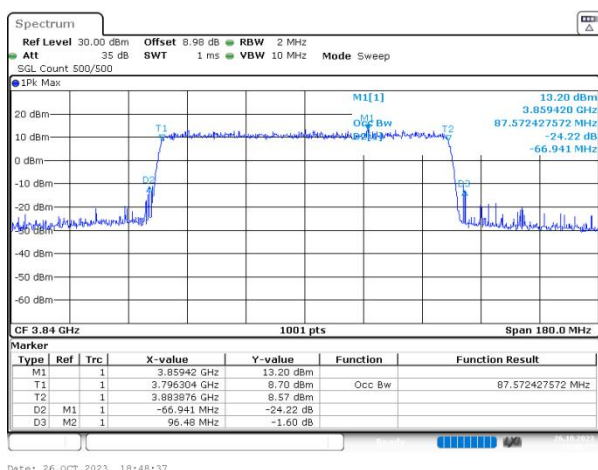
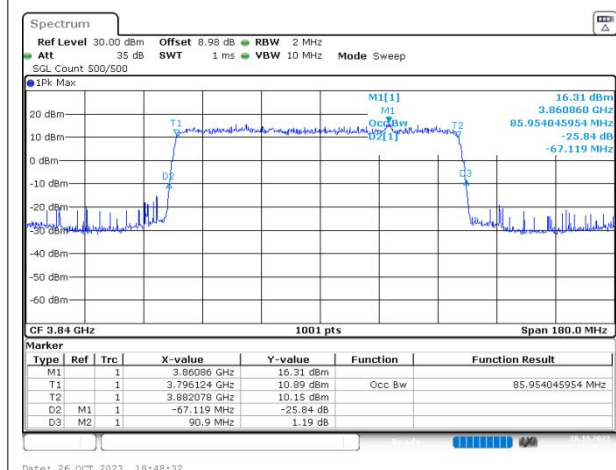
n77(3700-3980) SCS=30kHz CP_QPSK BW=80MHz
Channel=656000 RB=217@0

n77(3700-3980) SCS=30kHz CP_QAM16 BW=80MHz
Channel=656000 RB=217@0



n77(3700-3980) SCS=30kHz CP_QAM64 BW=80MHz
Channel=656000 RB=217@0

n77(3700-3980) SCS=30kHz CP_QAM256 BW=80MHz
Channel=656000 RB=217@0



n77(3700-3980) SCS=30kHz DFT_BPSK BW=90MHz
Channel=656000 RB=240@0

n77(3700-3980) SCS=30kHz CP_QPSK BW=90MHz
Channel=656000 RB=245@0