

Appendix for DC_66A_n38A (2570-2620)

Catalogue

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1. Effective Isotropic Radiated Power

1.1. Test Results @ Ant4 (Antenna Gain=-2.10dBi)

SCS	Bandwidth	Channel	Modulation	Conducted Result (dBm)			Max EIRP (dBm)	Limit (dBm)	Verdict
				Inner_1RB_Left	Inner_1RB_Right	Inner_Full			
30KHz	10MHz	LCH	DFT-Pi2BPSK	23.41	23.32	23.44	21.34	33.00	Pass
30KHz	10MHz	LCH	DFT-QPSK	23.30	23.14	23.34	21.24	33.00	Pass
30KHz	10MHz	LCH	DFT-16QAM	22.02	21.97	22.48	20.38	33.00	Pass
30KHz	10MHz	LCH	DFT-64QAM	20.87	20.81	20.98	18.88	33.00	Pass
30KHz	10MHz	LCH	DFT-256QAM	18.82	18.81	19.09	16.99	33.00	Pass
30KHz	10MHz	LCH	CP-QPSK	21.76	21.67	21.74	19.66	33.00	Pass
30KHz	10MHz	MCH	DFT-Pi2BPSK	23.38	23.37	23.37	21.28	33.00	Pass
30KHz	10MHz	MCH	DFT-QPSK	23.29	23.32	23.34	21.24	33.00	Pass
30KHz	10MHz	MCH	DFT-16QAM	22.05	22.13	22.46	20.36	33.00	Pass
30KHz	10MHz	MCH	DFT-64QAM	20.88	20.94	21.02	18.92	33.00	Pass
30KHz	10MHz	MCH	DFT-256QAM	18.77	18.92	19.10	17.00	33.00	Pass
30KHz	10MHz	MCH	CP-QPSK	21.65	21.75	21.78	19.68	33.00	Pass
30KHz	10MHz	HCH	DFT-Pi2BPSK	23.43	23.56	23.57	21.47	33.00	Pass
30KHz	10MHz	HCH	DFT-QPSK	23.38	23.49	23.67	21.57	33.00	Pass
30KHz	10MHz	HCH	DFT-16QAM	22.21	22.26	22.59	20.49	33.00	Pass
30KHz	10MHz	HCH	DFT-64QAM	21.07	21.11	21.25	19.15	33.00	Pass
30KHz	10MHz	HCH	DFT-256QAM	19.03	19.08	19.34	17.24	33.00	Pass
30KHz	10MHz	HCH	CP-QPSK	21.84	21.89	21.97	19.87	33.00	Pass
30KHz	15MHz	LCH	DFT-Pi2BPSK	23.43	23.31	23.37	21.33	33.00	Pass
30KHz	15MHz	LCH	DFT-QPSK	23.26	23.15	23.31	21.21	33.00	Pass
30KHz	15MHz	LCH	DFT-16QAM	22.08	21.97	22.35	20.25	33.00	Pass
30KHz	15MHz	LCH	DFT-64QAM	20.84	20.78	20.98	18.88	33.00	Pass
30KHz	15MHz	LCH	DFT-256QAM	18.85	18.87	18.94	16.84	33.00	Pass
30KHz	15MHz	LCH	CP-QPSK	21.76	21.68	21.72	19.66	33.00	Pass
30KHz	15MHz	MCH	DFT-Pi2BPSK	23.37	23.45	23.40	21.35	33.00	Pass
30KHz	15MHz	MCH	DFT-QPSK	23.20	23.35	23.38	21.28	33.00	Pass
30KHz	15MHz	MCH	DFT-16QAM	22.05	22.22	22.43	20.33	33.00	Pass
30KHz	15MHz	MCH	DFT-64QAM	20.78	20.89	20.99	18.89	33.00	Pass
30KHz	15MHz	MCH	DFT-256QAM	18.79	19.03	18.96	16.93	33.00	Pass
30KHz	15MHz	MCH	CP-QPSK	21.62	21.81	21.78	19.71	33.00	Pass
30KHz	15MHz	HCH	DFT-Pi2BPSK	23.48	23.60	23.56	21.50	33.00	Pass
30KHz	15MHz	HCH	DFT-QPSK	23.38	23.48	23.58	21.48	33.00	Pass
30KHz	15MHz	HCH	DFT-16QAM	22.25	22.29	22.59	20.49	33.00	Pass
30KHz	15MHz	HCH	DFT-64QAM	21.01	21.05	21.22	19.12	33.00	Pass
30KHz	15MHz	HCH	DFT-256QAM	19.03	19.15	19.17	17.07	33.00	Pass
30KHz	15MHz	HCH	CP-QPSK	21.82	21.96	21.99	19.89	33.00	Pass
30KHz	20MHz	LCH	DFT-Pi2BPSK	23.48	23.39	23.32	21.38	33.00	Pass
30KHz	20MHz	LCH	DFT-QPSK	23.30	23.23	23.34	21.24	33.00	Pass
30KHz	20MHz	LCH	DFT-16QAM	22.20	22.17	22.26	20.16	33.00	Pass
30KHz	20MHz	LCH	DFT-64QAM	20.91	20.86	20.86	18.81	33.00	Pass
30KHz	20MHz	LCH	DFT-256QAM	18.87	18.90	18.84	16.80	33.00	Pass
30KHz	20MHz	LCH	CP-QPSK	21.67	21.65	21.83	19.73	33.00	Pass
30KHz	20MHz	MCH	DFT-Pi2BPSK	23.27	23.48	23.42	21.38	33.00	Pass
30KHz	20MHz	MCH	DFT-QPSK	23.17	23.38	23.40	21.30	33.00	Pass
30KHz	20MHz	MCH	DFT-16QAM	21.99	22.21	22.40	20.30	33.00	Pass
30KHz	20MHz	MCH	DFT-64QAM	20.83	20.98	20.93	18.88	33.00	Pass
30KHz	20MHz	MCH	DFT-256QAM	18.89	19.06	18.94	16.96	33.00	Pass
30KHz	20MHz	MCH	CP-QPSK	21.69	21.82	21.90	19.80	33.00	Pass
30KHz	20MHz	HCH	DFT-Pi2BPSK	23.47	23.58	23.54	21.48	33.00	Pass
30KHz	20MHz	HCH	DFT-QPSK	23.35	23.47	23.56	21.46	33.00	Pass
30KHz	20MHz	HCH	DFT-16QAM	22.18	22.33	22.56	20.46	33.00	Pass
30KHz	20MHz	HCH	DFT-64QAM	20.92	21.15	21.13	19.05	33.00	Pass
30KHz	20MHz	HCH	DFT-256QAM	19.03	19.19	19.19	17.09	33.00	Pass
30KHz	20MHz	HCH	CP-QPSK	21.71	21.96	22.08	19.98	33.00	Pass
30KHz	25MHz	LCH	DFT-Pi2BPSK	23.30	23.38	23.23	21.28	33.00	Pass
30KHz	25MHz	LCH	DFT-QPSK	23.16	23.28	23.23	21.18	33.00	Pass
30KHz	25MHz	LCH	DFT-16QAM	21.92	22.04	22.29	20.19	33.00	Pass
30KHz	25MHz	LCH	DFT-64QAM	20.78	20.88	20.82	18.78	33.00	Pass
30KHz	25MHz	LCH	DFT-256QAM	18.72	18.91	18.83	16.81	33.00	Pass

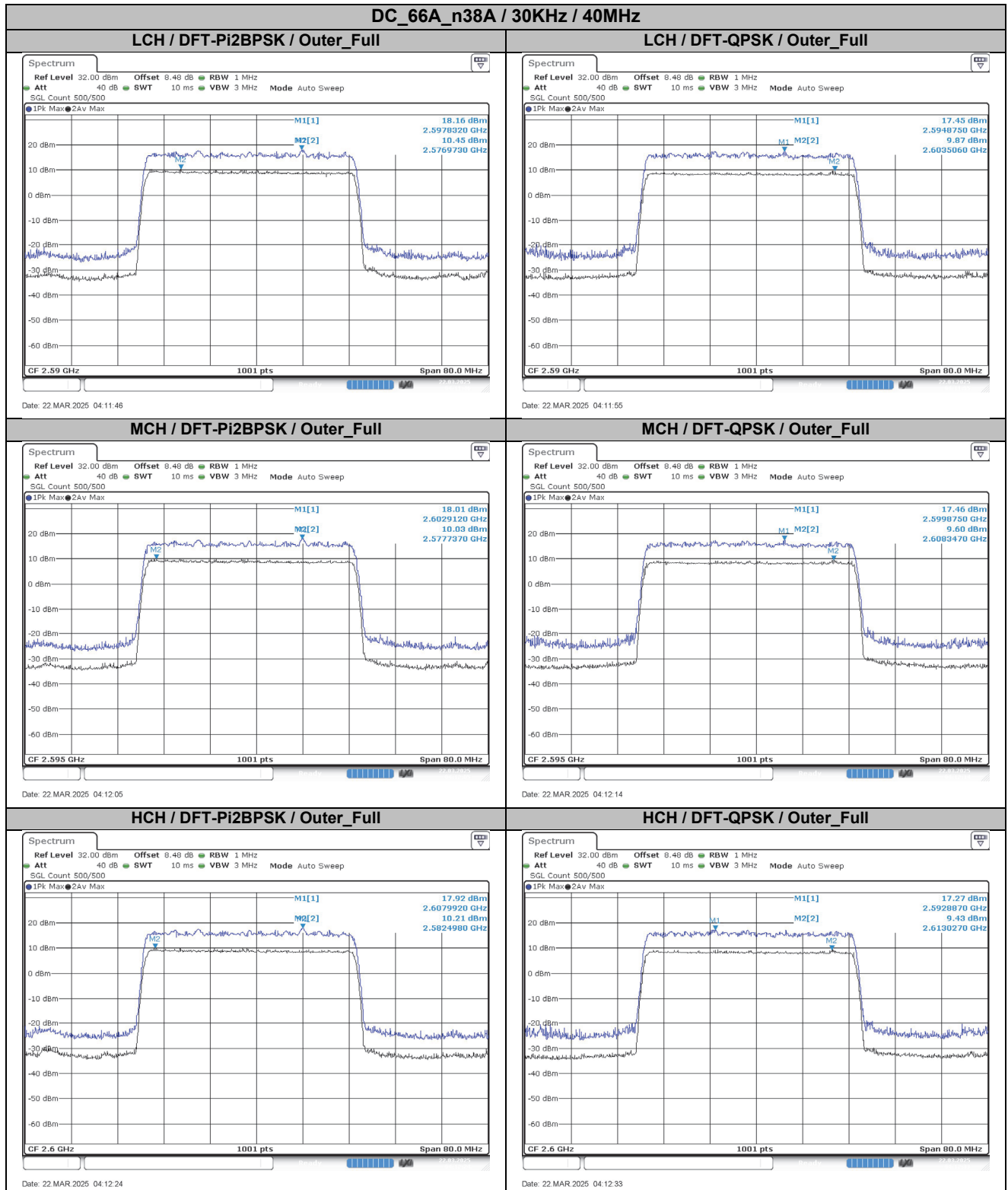
30KHz	25MHz	LCH	CP-QPSK	21.60	21.70	21.73	19.63	33.00	Pass
30KHz	25MHz	MCH	DFT-Pi2BPSK	23.20	23.49	23.38	21.39	33.00	Pass
30KHz	25MHz	MCH	DFT-QPSK	23.12	23.35	23.37	21.27	33.00	Pass
30KHz	25MHz	MCH	DFT-16QAM	21.88	22.21	22.37	20.27	33.00	Pass
30KHz	25MHz	MCH	DFT-64QAM	20.77	20.99	20.88	18.89	33.00	Pass
30KHz	25MHz	MCH	DFT-256QAM	18.77	19.01	18.93	16.91	33.00	Pass
30KHz	25MHz	MCH	CP-QPSK	21.57	21.77	21.88	19.78	33.00	Pass
30KHz	25MHz	HCH	DFT-Pi2BPSK	23.36	23.53	23.49	21.43	33.00	Pass
30KHz	25MHz	HCH	DFT-QPSK	23.24	23.42	23.48	21.38	33.00	Pass
30KHz	25MHz	HCH	DFT-16QAM	21.99	22.24	22.45	20.35	33.00	Pass
30KHz	25MHz	HCH	DFT-64QAM	20.86	21.06	21.08	18.98	33.00	Pass
30KHz	25MHz	HCH	DFT-256QAM	18.93	19.05	19.03	16.95	33.00	Pass
30KHz	25MHz	HCH	CP-QPSK	21.66	21.83	21.99	19.89	33.00	Pass
30KHz	30MHz	LCH	DFT-Pi2BPSK	23.37	23.49	23.31	21.39	33.00	Pass
30KHz	30MHz	LCH	DFT-QPSK	23.20	23.37	23.30	21.27	33.00	Pass
30KHz	30MHz	LCH	DFT-16QAM	22.03	22.18	22.37	20.27	33.00	Pass
30KHz	30MHz	LCH	DFT-64QAM	20.81	21.02	20.87	18.92	33.00	Pass
30KHz	30MHz	LCH	DFT-256QAM	18.76	18.97	18.84	16.87	33.00	Pass
30KHz	30MHz	LCH	CP-QPSK	21.75	21.87	21.84	19.77	33.00	Pass
30KHz	30MHz	MCH	DFT-Pi2BPSK	23.15	23.51	23.37	21.41	33.00	Pass
30KHz	30MHz	MCH	DFT-QPSK	23.05	23.44	23.39	21.34	33.00	Pass
30KHz	30MHz	MCH	DFT-16QAM	21.81	22.23	22.44	20.34	33.00	Pass
30KHz	30MHz	MCH	DFT-64QAM	20.61	21.01	20.94	18.91	33.00	Pass
30KHz	30MHz	MCH	DFT-256QAM	18.65	19.03	18.94	16.93	33.00	Pass
30KHz	30MHz	MCH	CP-QPSK	21.52	21.83	21.93	19.83	33.00	Pass
30KHz	30MHz	HCH	DFT-Pi2BPSK	23.45	23.54	23.51	21.44	33.00	Pass
30KHz	30MHz	HCH	DFT-QPSK	23.28	23.46	23.49	21.39	33.00	Pass
30KHz	30MHz	HCH	DFT-16QAM	22.07	22.31	22.52	20.42	33.00	Pass
30KHz	30MHz	HCH	DFT-64QAM	20.93	21.12	21.12	19.02	33.00	Pass
30KHz	30MHz	HCH	DFT-256QAM	18.88	19.12	19.08	17.02	33.00	Pass
30KHz	30MHz	HCH	CP-QPSK	21.73	21.93	22.03	19.93	33.00	Pass
30KHz	40MHz	LCH	DFT-Pi2BPSK	23.30	23.51	23.40	21.41	33.00	Pass
30KHz	40MHz	LCH	DFT-QPSK	23.14	23.44	23.35	21.34	33.00	Pass
30KHz	40MHz	LCH	DFT-16QAM	21.95	22.27	22.38	20.28	33.00	Pass
30KHz	40MHz	LCH	DFT-64QAM	20.70	20.98	20.93	18.88	33.00	Pass
30KHz	40MHz	LCH	DFT-256QAM	18.75	19.10	18.93	17.00	33.00	Pass
30KHz	40MHz	LCH	CP-QPSK	21.67	21.85	21.90	19.80	33.00	Pass
30KHz	40MHz	MCH	DFT-Pi2BPSK	23.28	23.54	23.43	21.44	33.00	Pass
30KHz	40MHz	MCH	DFT-QPSK	23.12	23.45	23.37	21.35	33.00	Pass
30KHz	40MHz	MCH	DFT-16QAM	21.98	22.32	22.38	20.28	33.00	Pass
30KHz	40MHz	MCH	DFT-64QAM	20.75	21.11	20.96	19.01	33.00	Pass
30KHz	40MHz	MCH	DFT-256QAM	18.75	19.15	18.96	17.05	33.00	Pass
30KHz	40MHz	MCH	CP-QPSK	21.52	21.93	21.85	19.83	33.00	Pass
30KHz	40MHz	HCH	DFT-Pi2BPSK	23.10	23.51	23.42	21.41	33.00	Pass
30KHz	40MHz	HCH	DFT-QPSK	22.97	23.43	23.39	21.33	33.00	Pass
30KHz	40MHz	HCH	DFT-16QAM	21.79	22.27	22.42	20.32	33.00	Pass
30KHz	40MHz	HCH	DFT-64QAM	20.58	21.10	20.96	19.00	33.00	Pass
30KHz	40MHz	HCH	DFT-256QAM	18.66	19.15	18.93	17.05	33.00	Pass
30KHz	40MHz	HCH	CP-QPSK	21.46	21.88	21.90	19.80	33.00	Pass

2. Peak-to-Average Ratio

2.1. Test Results

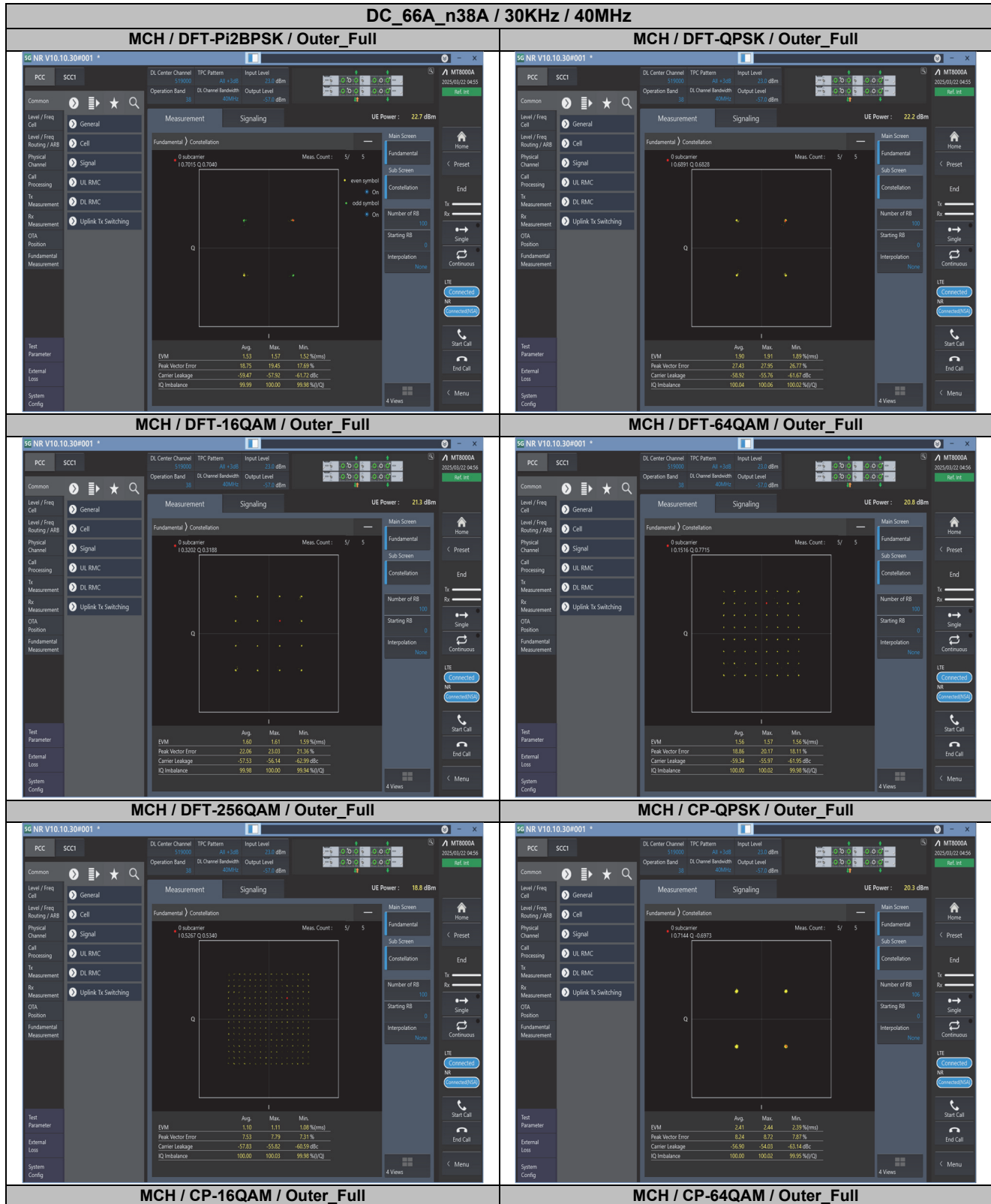
SCS	Bandwidth	Channel	RB	Result (dB)		Limit (dB)	Verdict
				DFT-Pi2BPSK	DFT-QPSK		
30KHz	40MHz	LCH	Outer_Full	7.71	7.57	13.00	Pass
30KHz	40MHz	MCH	Outer_Full	7.99	7.86	13.00	Pass
30KHz	40MHz	HCH	Outer_Full	7.71	7.84	13.00	Pass

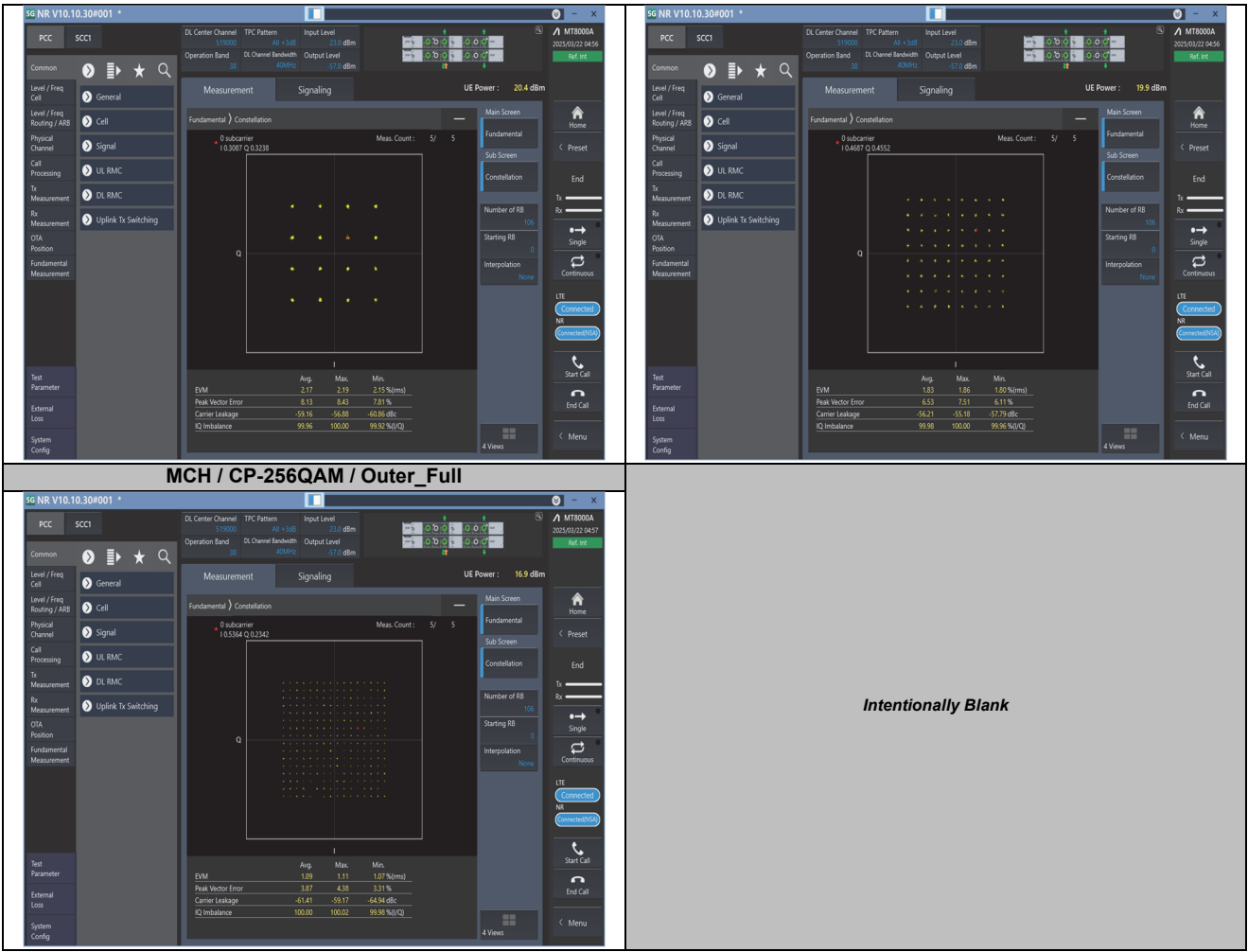
2.2. Test Plots for SCS=30KHz



3. Modulation Characteristics

3.1. Test Plots for SCS=30KHz





MCH / CP-256QAM / Outer_Full

SG NR V10.10.30#001 *

PCC

SCC1

DL Center Channel

TPC Pattern

Input Level

23.0 dBm

Operation Band

DL Channel Bandwidth

Output Level

50.0 dBm

2023/03/22 04:57

Ref test

Common

Level / Freq

Cell

Level / Freq

Routing / ARB

Physical Channel

Call

Processing

Tx Measurement

Rx Measurement

OTA Position

Fundamental Measurement

Test Parameter

External Loss

System Config

Measurement

Signaling

UE Power : 16.9 dBm

Fundamental

Constellation

0 subcarrier

10.5364 Q 0.2342

Meas. Count: 5 / 5

Q

I

EVM

1.09

1.11

1.07 % (rms)

Peak Vector Error

3.27

4.30

3.23 %

Carrier Leakage

-61.41

-59.17

-64.94 dBc

IQ Imbalance

100.00

100.02

99.98 % (I/Q)

Number of RB

196

Starting RB

0

Interpolation

None

LTE

Connected

NR

Connected/NR

Start Call

End Call

4 Views

Menu

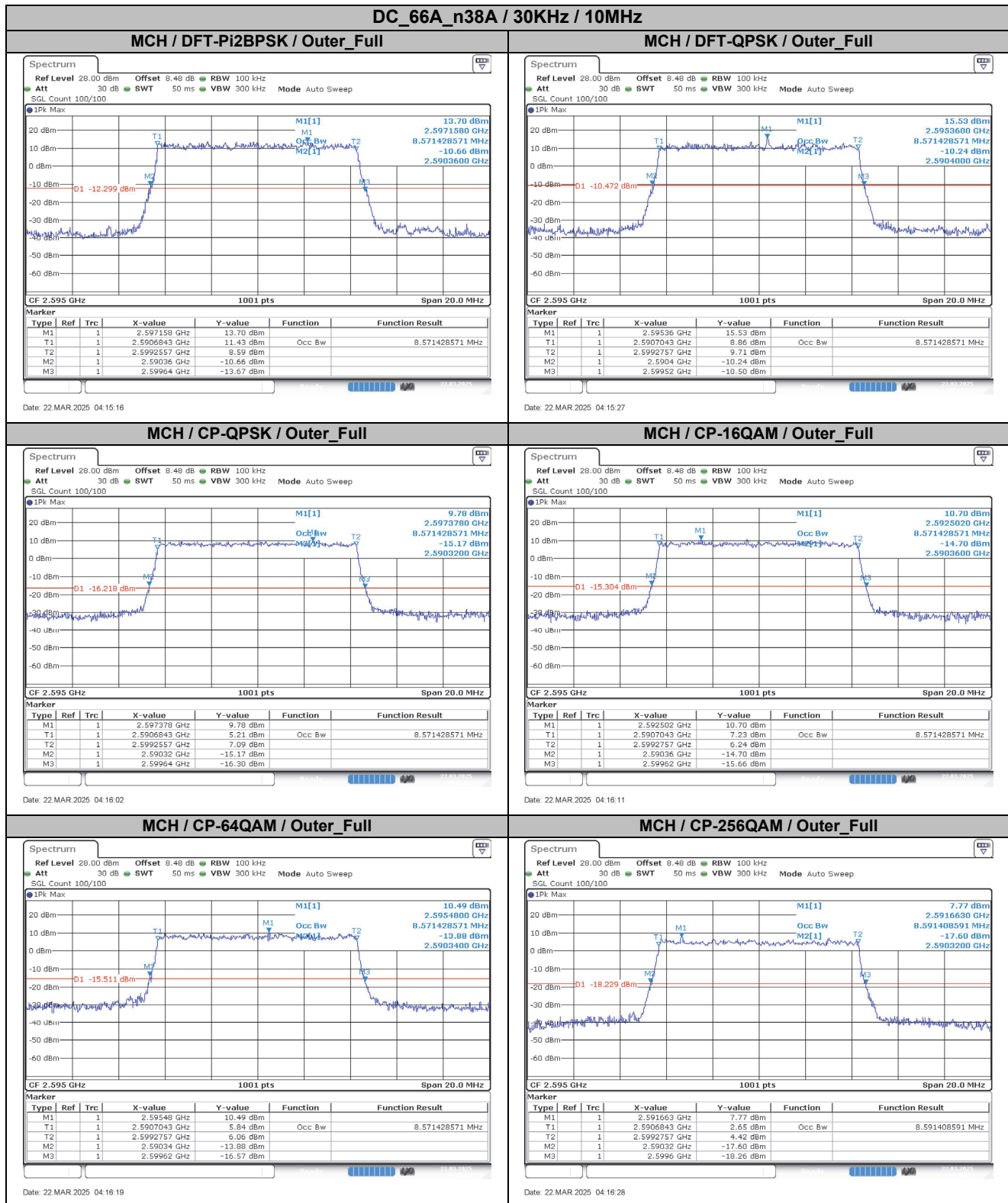
Intentionally Blank

4. 99% Occupied Bandwidth & 26dB Emission Bandwidth

4.1. Test Results

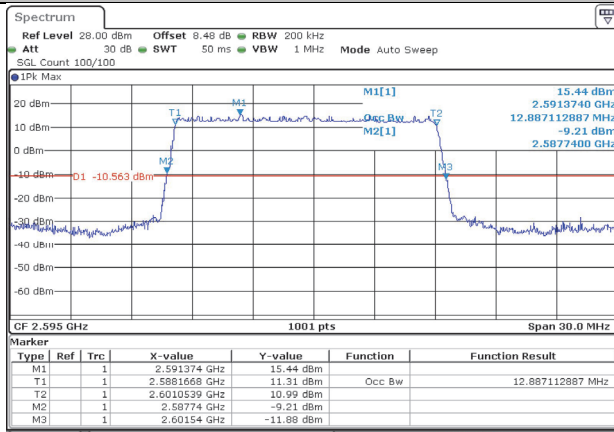
SCS	Bandwidth	Modulation	RB	99% Occupied Bandwidth (MHz)	26dB Emission Bandwidth (MHz)	Verdict
30KHz	10MHz	DFT-Pi2BPSK	Outer_Full	8.57	9.28	Pass
30KHz	10MHz	DFT-QPSK	Outer_Full	8.57	9.12	Pass
30KHz	10MHz	CP-QPSK	Outer_Full	8.57	9.32	Pass
30KHz	10MHz	CP-16QAM	Outer_Full	8.57	9.26	Pass
30KHz	10MHz	CP-64QAM	Outer_Full	8.57	9.28	Pass
30KHz	10MHz	CP-256QAM	Outer_Full	8.59	9.28	Pass
30KHz	15MHz	DFT-Pi2BPSK	Outer_Full	12.89	13.80	Pass
30KHz	15MHz	DFT-QPSK	Outer_Full	12.89	13.71	Pass
30KHz	15MHz	CP-QPSK	Outer_Full	13.58	14.61	Pass
30KHz	15MHz	CP-16QAM	Outer_Full	13.58	14.55	Pass
30KHz	15MHz	CP-64QAM	Outer_Full	13.67	14.61	Pass
30KHz	15MHz	CP-256QAM	Outer_Full	13.58	14.58	Pass
30KHz	20MHz	DFT-Pi2BPSK	Outer_Full	17.86	18.72	Pass
30KHz	20MHz	DFT-QPSK	Outer_Full	17.86	18.84	Pass
30KHz	20MHz	CP-QPSK	Outer_Full	18.18	19.24	Pass
30KHz	20MHz	CP-16QAM	Outer_Full	18.22	19.28	Pass
30KHz	20MHz	CP-64QAM	Outer_Full	18.18	19.16	Pass
30KHz	20MHz	CP-256QAM	Outer_Full	18.18	19.20	Pass
30KHz	25MHz	DFT-Pi2BPSK	Outer_Full	22.88	24.10	Pass
30KHz	25MHz	DFT-QPSK	Outer_Full	22.83	24.00	Pass
30KHz	25MHz	CP-QPSK	Outer_Full	23.13	24.45	Pass
30KHz	25MHz	CP-16QAM	Outer_Full	23.23	24.45	Pass
30KHz	25MHz	CP-64QAM	Outer_Full	23.28	24.35	Pass
30KHz	25MHz	CP-256QAM	Outer_Full	23.23	24.50	Pass
30KHz	30MHz	DFT-Pi2BPSK	Outer_Full	26.79	28.26	Pass
30KHz	30MHz	DFT-QPSK	Outer_Full	26.79	28.32	Pass
30KHz	30MHz	CP-QPSK	Outer_Full	27.81	29.46	Pass
30KHz	30MHz	CP-16QAM	Outer_Full	27.87	29.28	Pass
30KHz	30MHz	CP-64QAM	Outer_Full	27.75	29.28	Pass
30KHz	30MHz	CP-256QAM	Outer_Full	27.87	29.40	Pass
30KHz	40MHz	DFT-Pi2BPSK	Outer_Full	35.80	37.76	Pass
30KHz	40MHz	DFT-QPSK	Outer_Full	35.80	37.76	Pass
30KHz	40MHz	CP-QPSK	Outer_Full	37.80	39.68	Pass
30KHz	40MHz	CP-16QAM	Outer_Full	37.80	39.92	Pass
30KHz	40MHz	CP-64QAM	Outer_Full	37.88	39.68	Pass
30KHz	40MHz	CP-256QAM	Outer_Full	37.80	39.84	Pass

4.2. Test Plots for SCS=30KHz



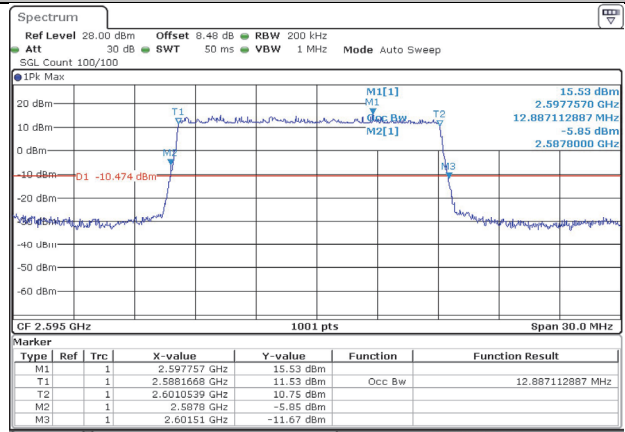
DC_66A_n38A / 30KHz / 15MHz

MCH / DFT-Pi2BPSK / Outer_Full



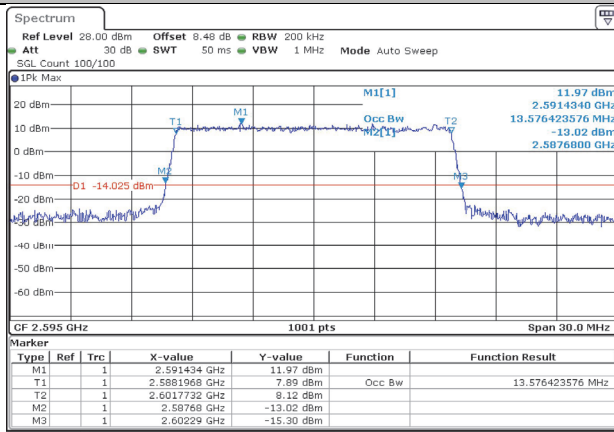
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MCH / DFT-QPSK / Outer_Full



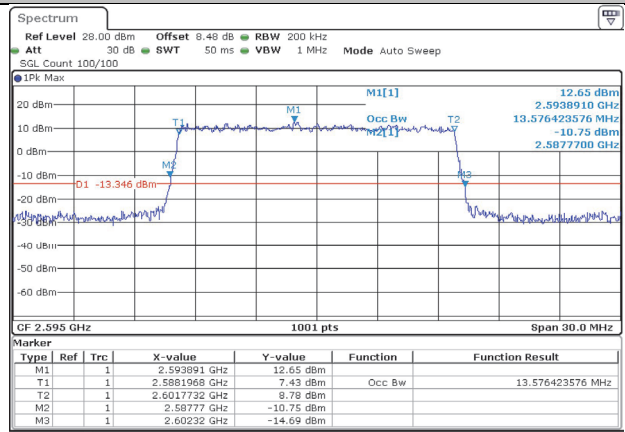
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MCH / CP-QPSK / Outer_Full



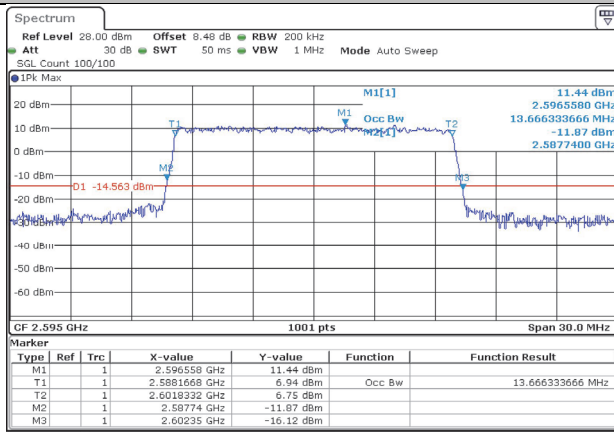
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MCH / CP-16QAM / Outer_Full



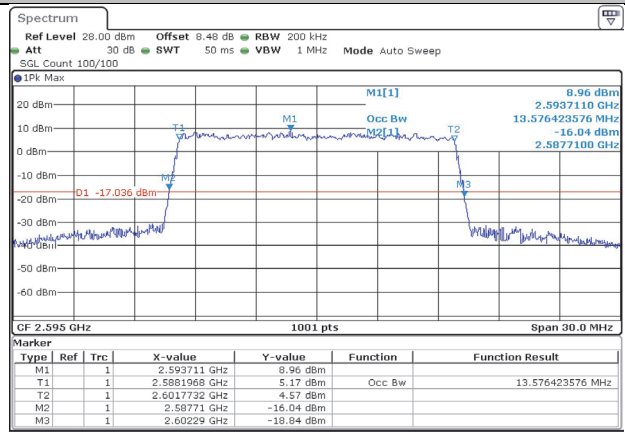
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MCH / CP-64QAM / Outer_Full



Date: 22 MAR 2025 04:17:47

MCH / CP-256QAM / Outer_Full



Date: 22 MAR 2025 04:17:56