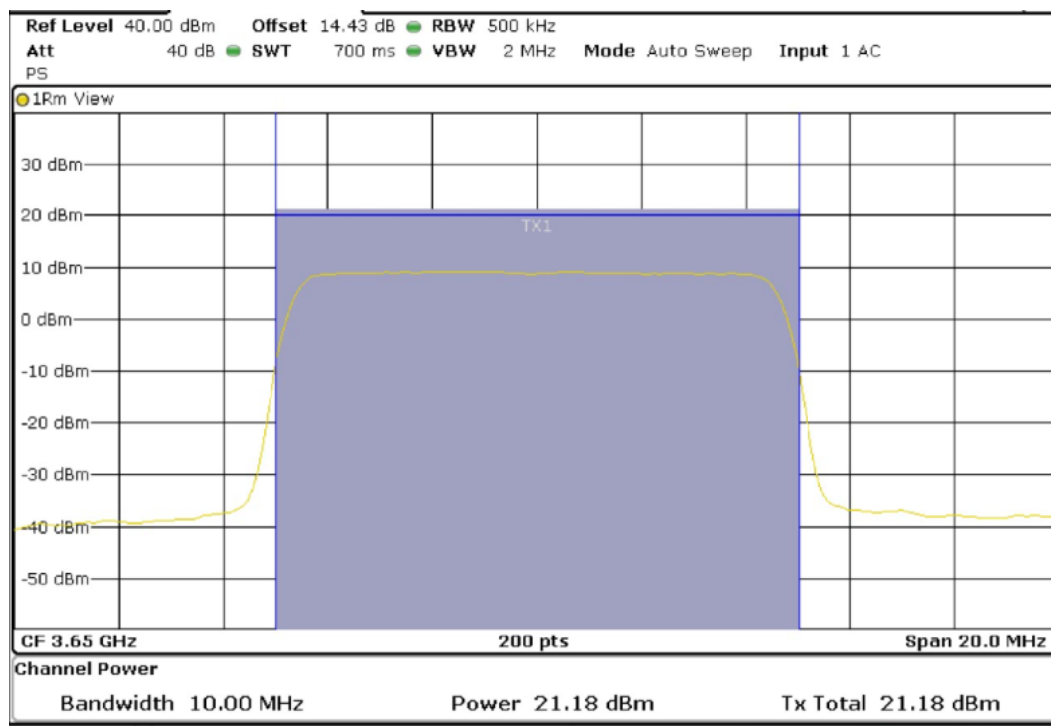
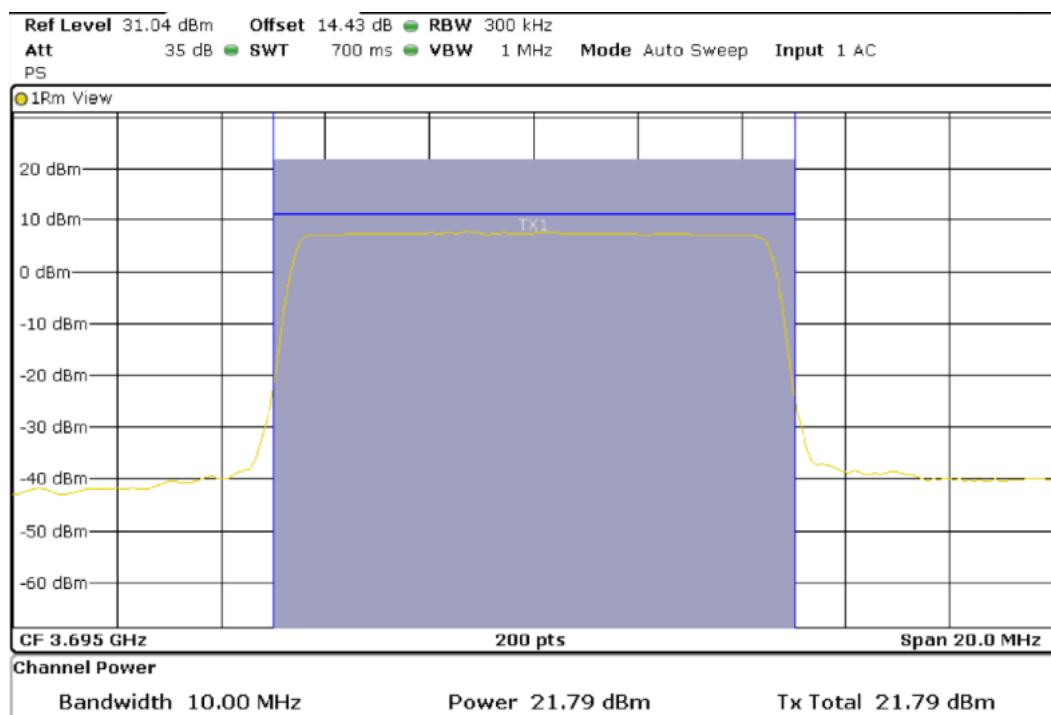


TEST RESULTS (Cont.):

Middle Channel (3650 MHz)



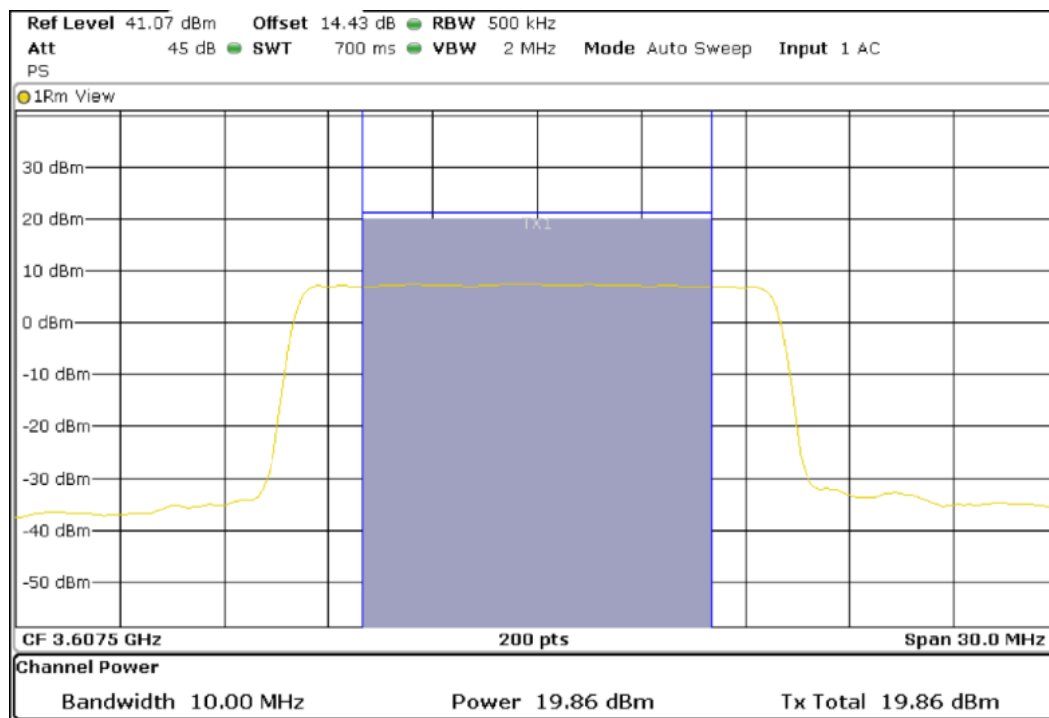
Highest Channel (3695 MHz)



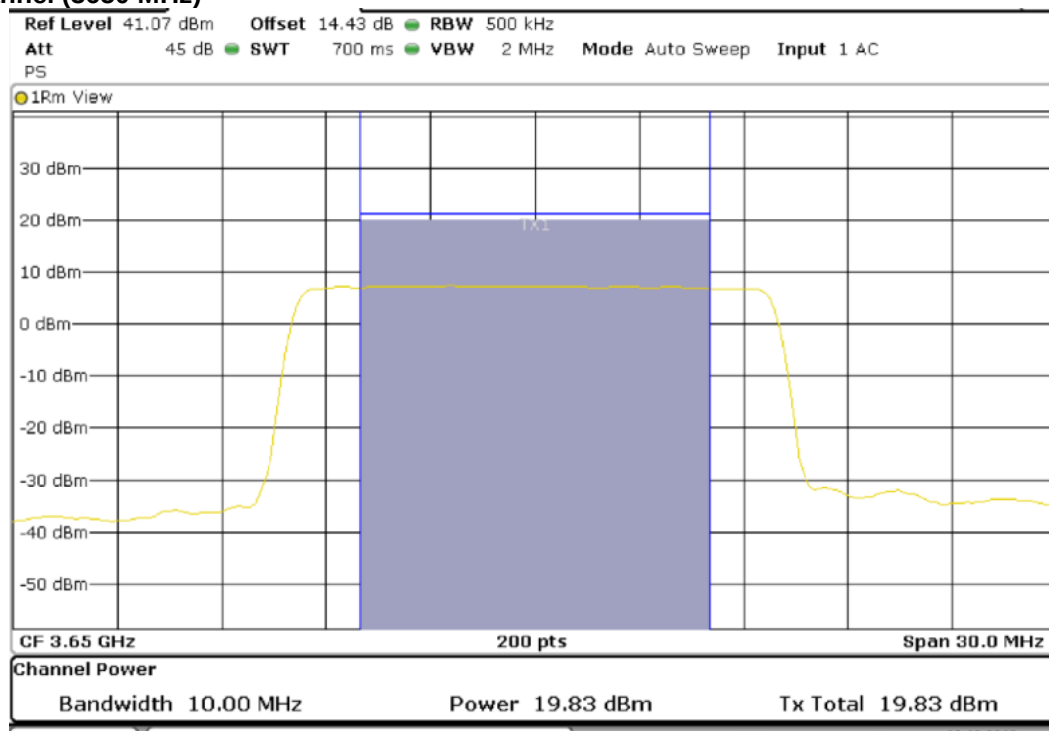
TEST RESULTS (Cont.):

15 MHz BW (QPSK only)

Lowest Channel (3607.5 MHz)

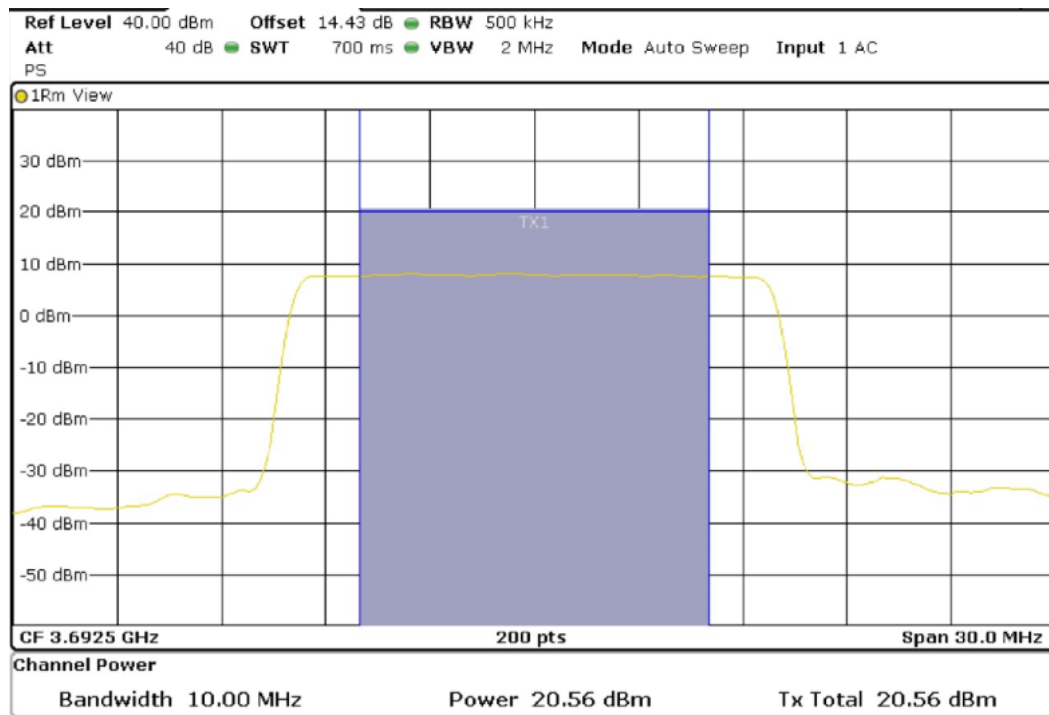


Middle Channel (3650 MHz)



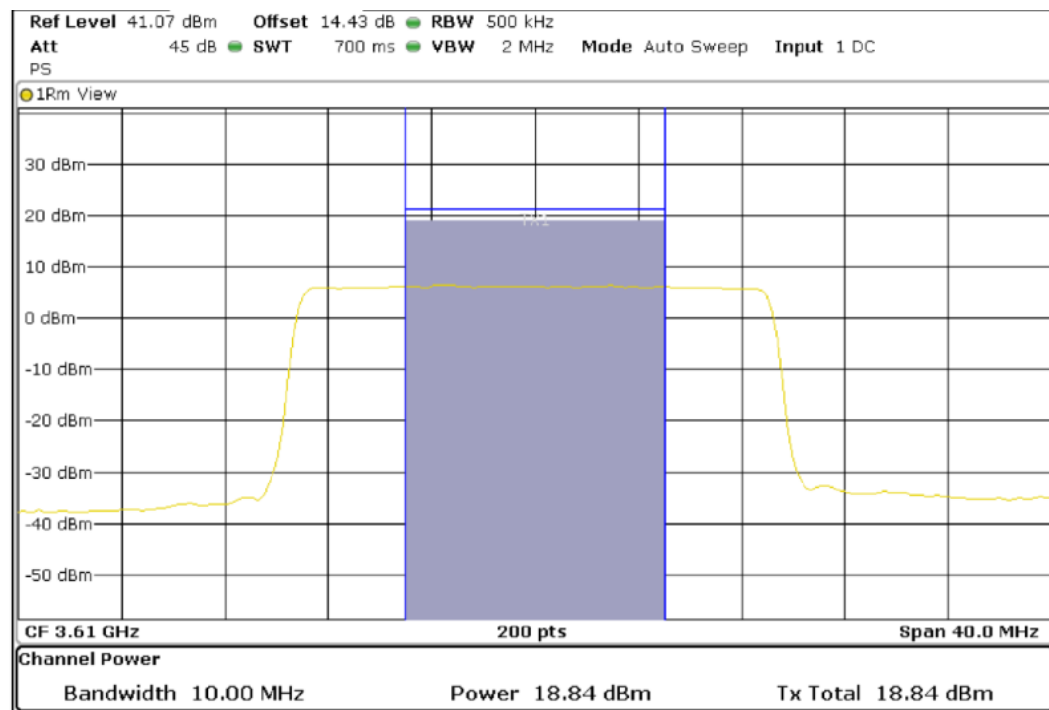
TEST RESULTS (Cont.):

Highest Channel (3692.5 MHz)



20 MHz BW (QPSK only)

Lowest Channel (3610 MHz)

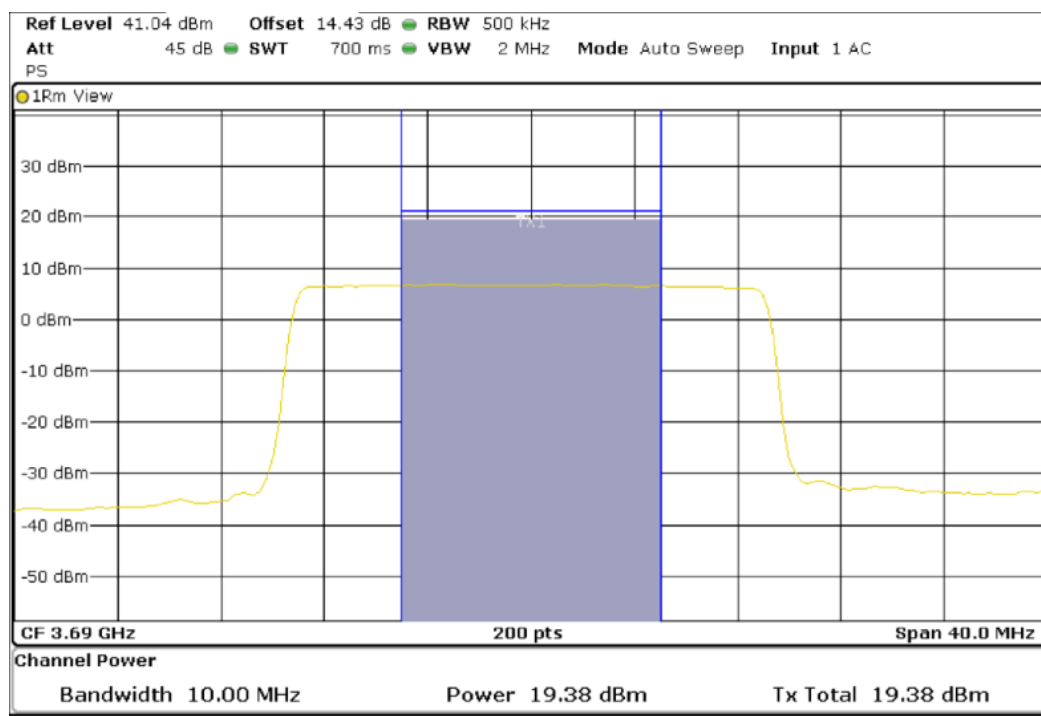


TEST RESULTS (Cont.):

Middle Channel (3650 MHz)



Highest Channel (3690 MHz)



TEST A.3: 99% OBW AND -26 DB BANDWIDTH

LIMITS:	Product standard:	Part 2.1049
	Test standard:	ANSI C63.26-2015

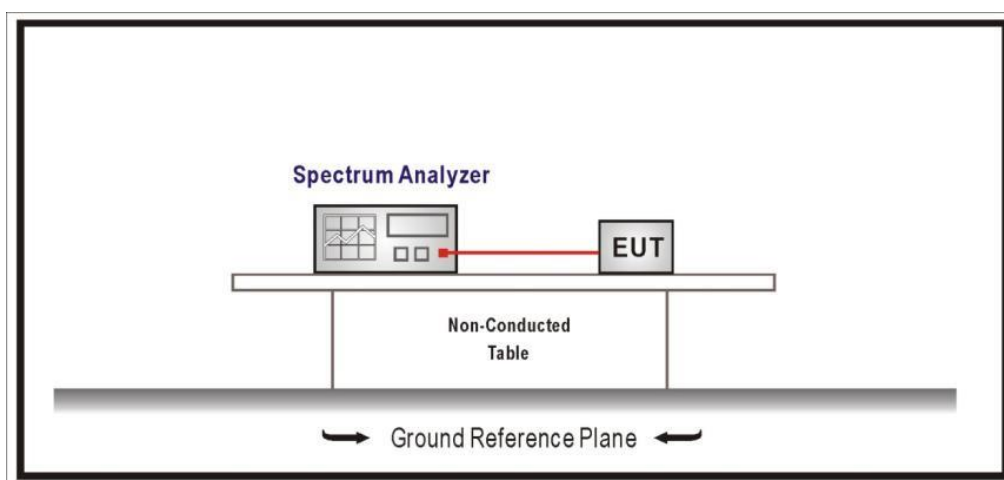
LIMITS

The 99% occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured.

The -26 dB Bandwidth is the bandwidth of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB from the peak of the carrier.

TEST SETUP:

The 99% occupied bandwidth and the -26dB bandwidth were measured directly using the built-in bandwidth measuring option of signal analyzer with following the procedure stated in the section 5.4.3 and 5.4.4 of ANSI C63.26-2015 and the section 4.2 and 4.3 of FCC KDB 971168 D01 v03 r01.



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01 (Band 48)
TEST RESULTS:	PASS

Results:

5 MHz BW

QPSK

	Lowest frequency 3552.5 MHz	Middle frequency 3625 MHz	Highest frequency 3697.5 MHz
99% OBW (MHz)	4.70	4.70	4.67
-26 dB Bandwidth (MHz)	6.08	5.93	5.72
Measurement uncertainty (kHz)	<±8.33		

16QAM

	Lowest frequency 3552.5 MHz	Middle frequency 3625 MHz	Highest frequency 3697.5 MHz
99% OBW (MHz)	4.67	4.69	4.66
-26 dB Bandwidth (MHz)	5.98	6.05	5.72
Measurement uncertainty (kHz)	<±8.33		

10 MHz BW

QPSK

	Lowest frequency 3555 MHz	Middle frequency 3625 MHz	Highest frequency 3695 MHz
99% OBW (MHz)	9.04	9.04	9.03
-26 dB Bandwidth (MHz)	10.07	10.10	10.07
Measurement uncertainty (kHz)	<±8.33		

16QAM

	Lowest frequency 3555 MHz	Middle frequency 3625 MHz	Highest frequency 3695 MHz
99% OBW (MHz)	9.04	9.06	9.00
-26 dB Bandwidth (MHz)	10.04	10.01	9.96
Measurement uncertainty (kHz)	<±8.33		

TEST RESULTS (Cont.):

15 MHz BW

QPSK

	Lowest frequency 3557.5 MHz	Middle frequency 3625 MHz	Highest frequency 3692.5 MHz
99% OBW (MHz)	13.44	13.47	13.46
-26 dB Bandwidth (MHz)	14.78	14.78	14.73
Measurement uncertainty (kHz)	<±8.33		

16QAM

	Lowest frequency 3557.5 MHz	Middle frequency 3625 MHz	Highest frequency 3692.5 MHz
99% OBW (MHz)	13.44	13.50	13.55
-26 dB Bandwidth (MHz)	14.73	14.78	14.82
Measurement uncertainty (kHz)	<±8.33		

20 MHz BW

QPSK

	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
99% OBW (MHz)	17.84	17.92	17.88
-26 dB Bandwidth (MHz)	19.44	19.24	19.32
Measurement uncertainty (kHz)	<±8.33		

16QAM

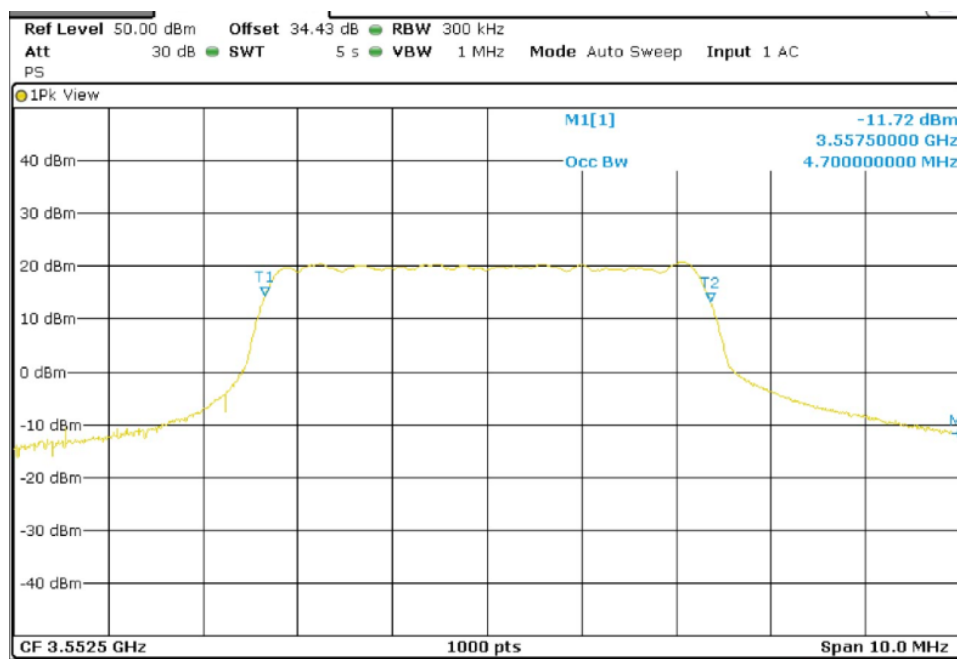
	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
99% OBW (MHz)	17.92	17.88	17.88
-26 dB Bandwidth (MHz)	19.44	19.28	19.36
Measurement uncertainty (kHz)	<±8.33		

Verdict: PASS
(See next plots)

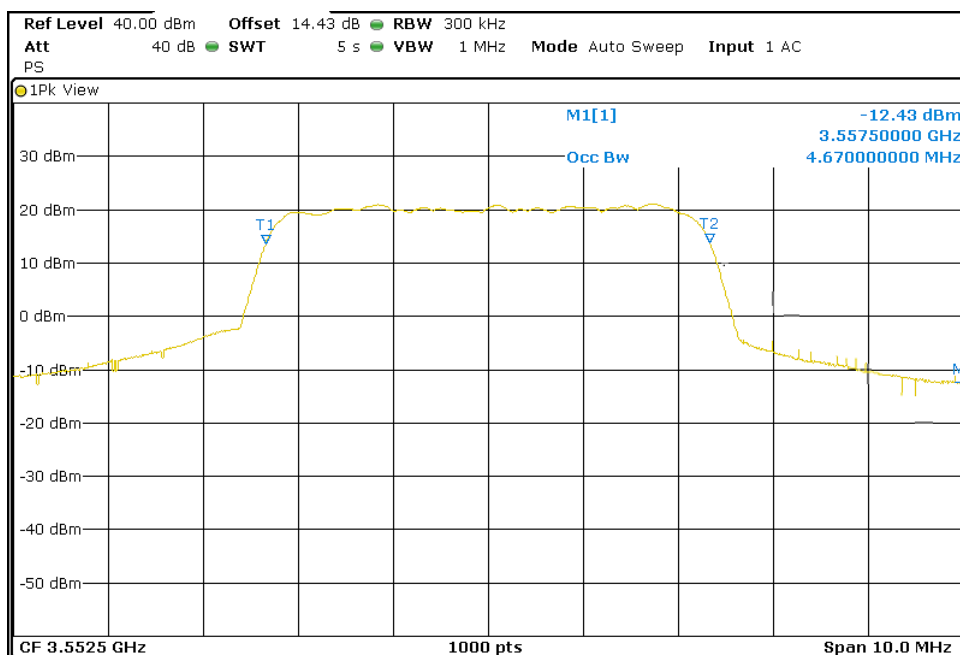
TEST RESULTS (Cont.):

5 MHz BW

Lowest Channel (3552.5 MHz) QPSK

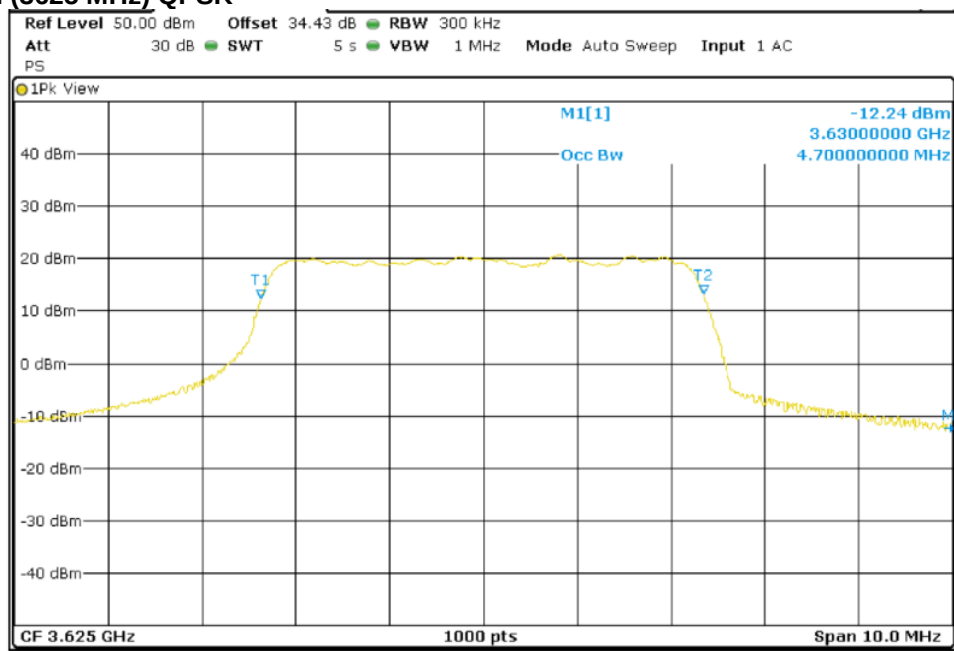


Lowest Channel (3552.5 MHz) 16QAM

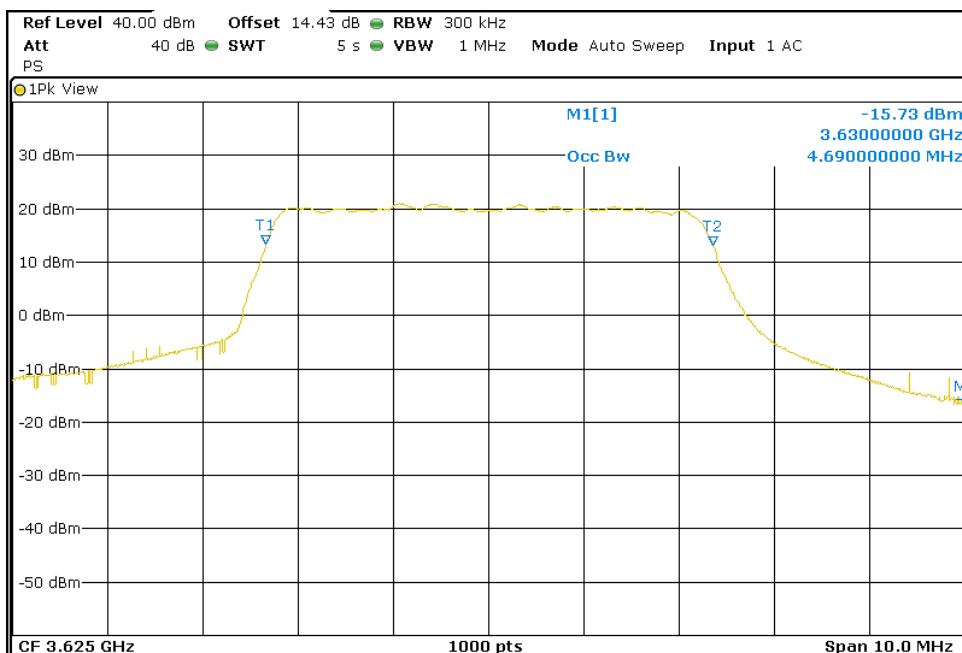


TEST RESULTS (Cont.):

Middle Channel (3625 MHz) QPSK

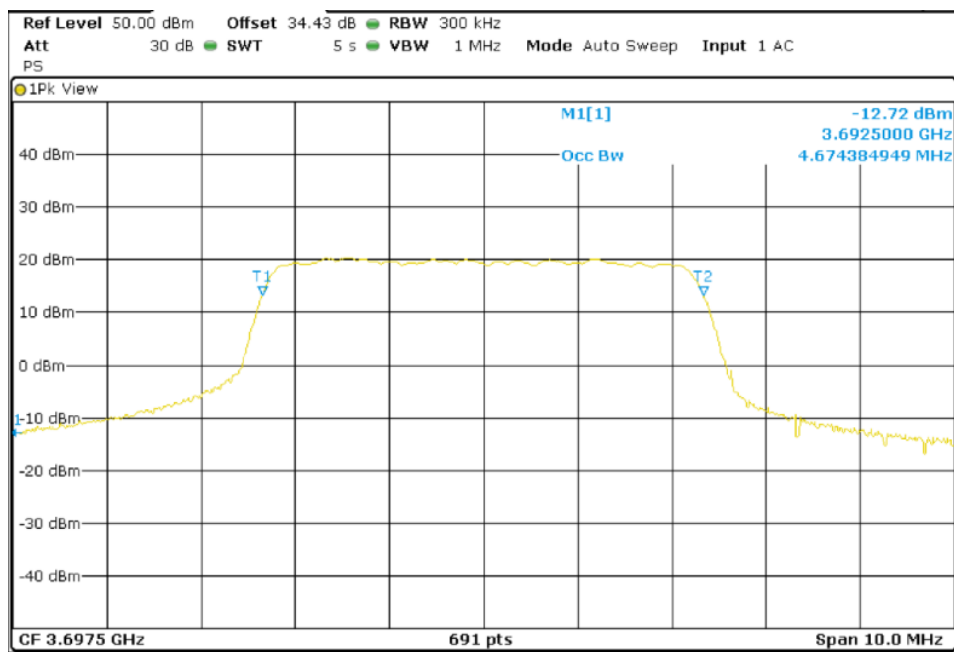


Middle Channel (3625 MHz) 16QAM

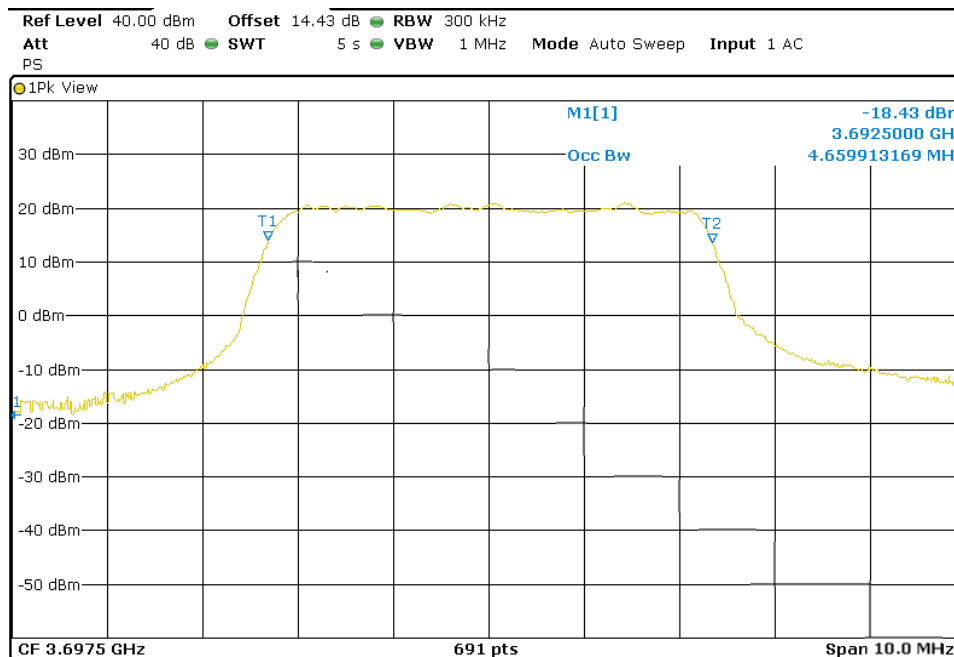


TEST RESULTS (Cont.):

Highest Channel (3697.5 MHz) QPSK



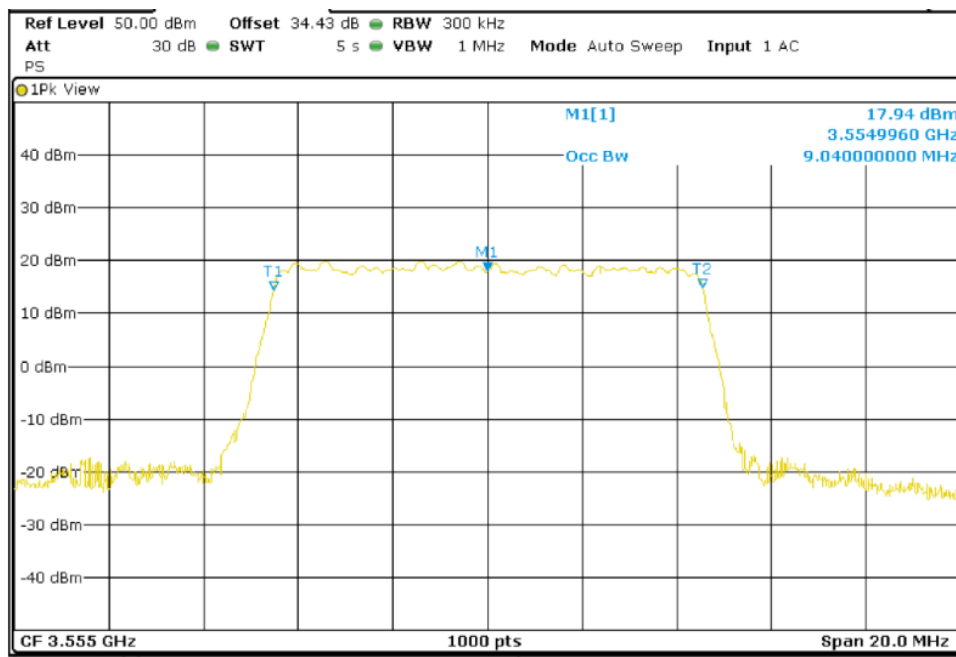
Highest Channel (3697.5 MHz) 16QAM



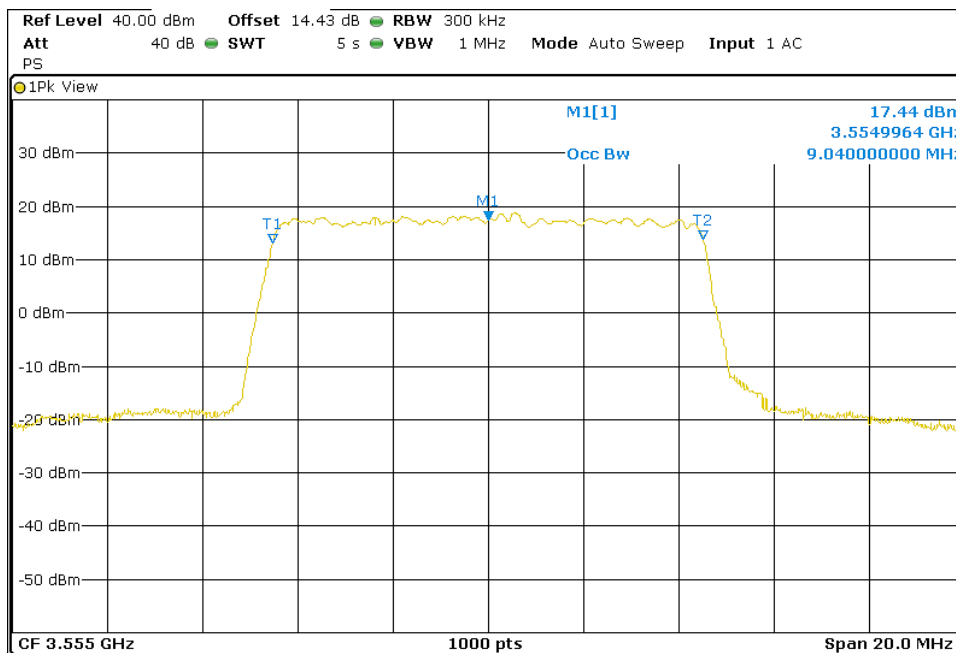
TEST RESULTS (Cont.):

10 MHz BW

Lowest Channel (3555 MHz) QPSK

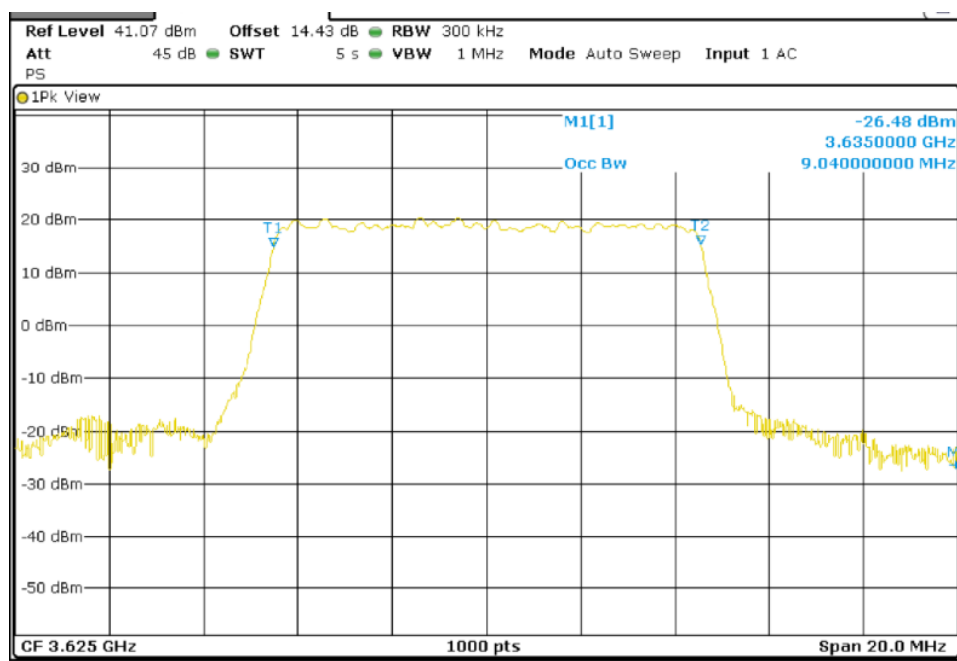


Lowest Channel (3555 MHz) 16QAM

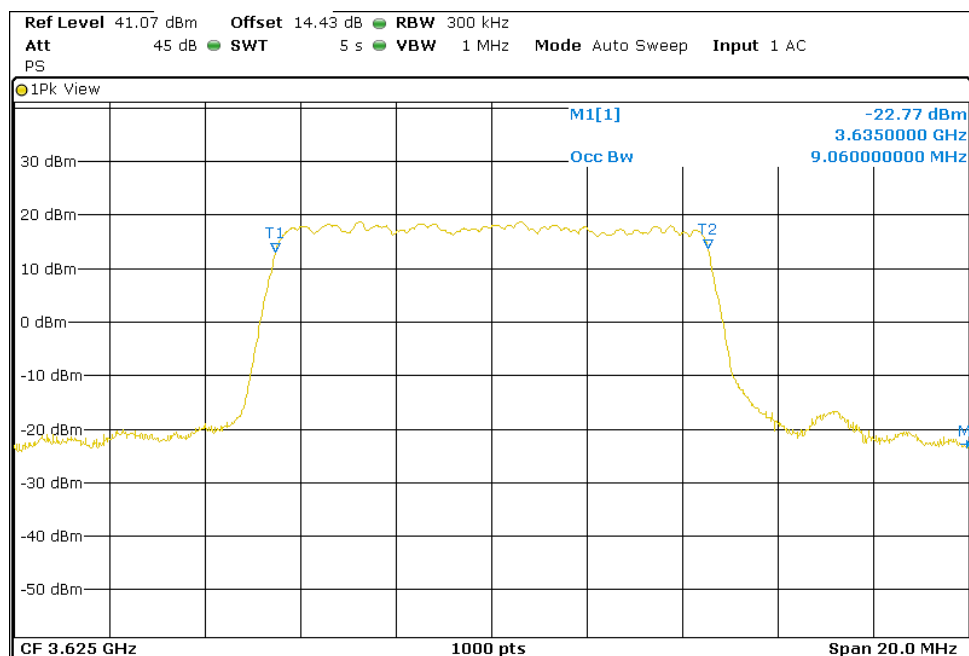


TEST RESULTS (Cont.):

Middle Channel (3625 MHz) QPSK

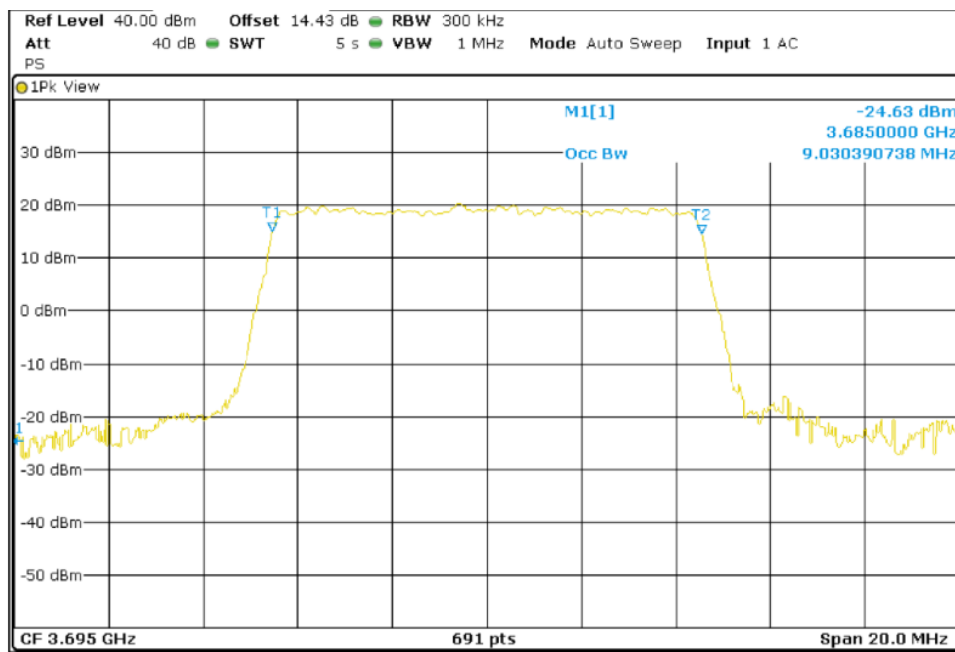


Middle Channel (3625 MHz) 16QAM

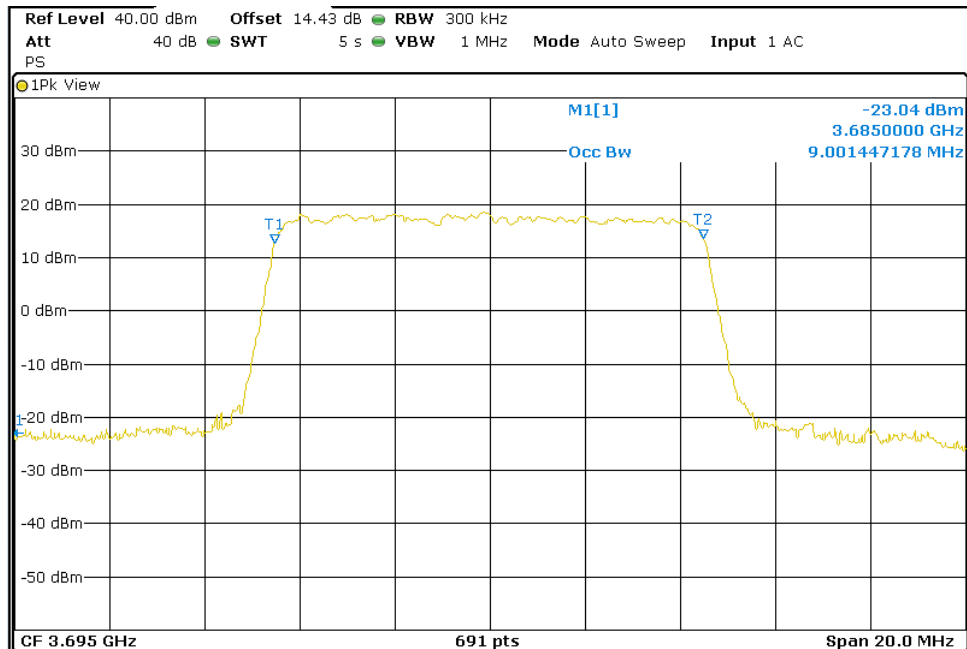


TEST RESULTS (Cont.):

High Channel (3695 MHz) QPSK



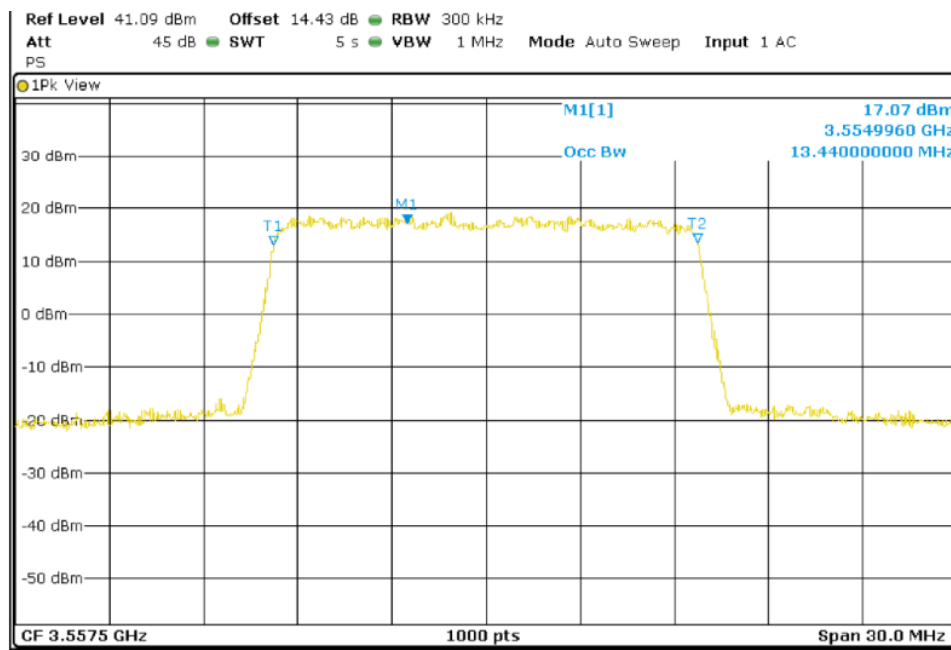
High Channel (3695 MHz) 16QAM



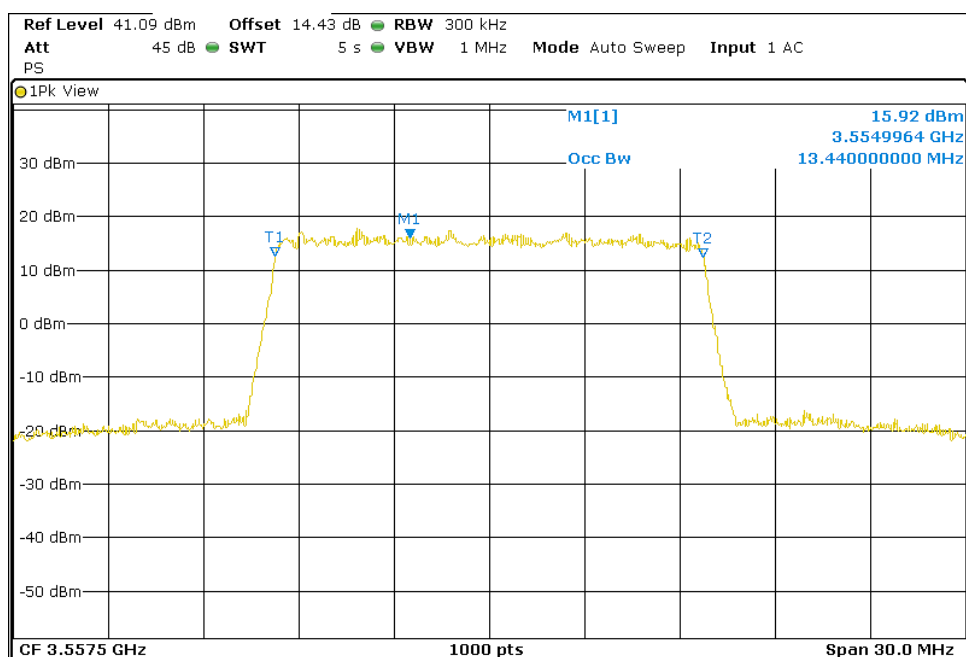
TEST RESULTS (Cont.):

15 MHz BW

Lowest Channel (3557.5 MHz) QPSK

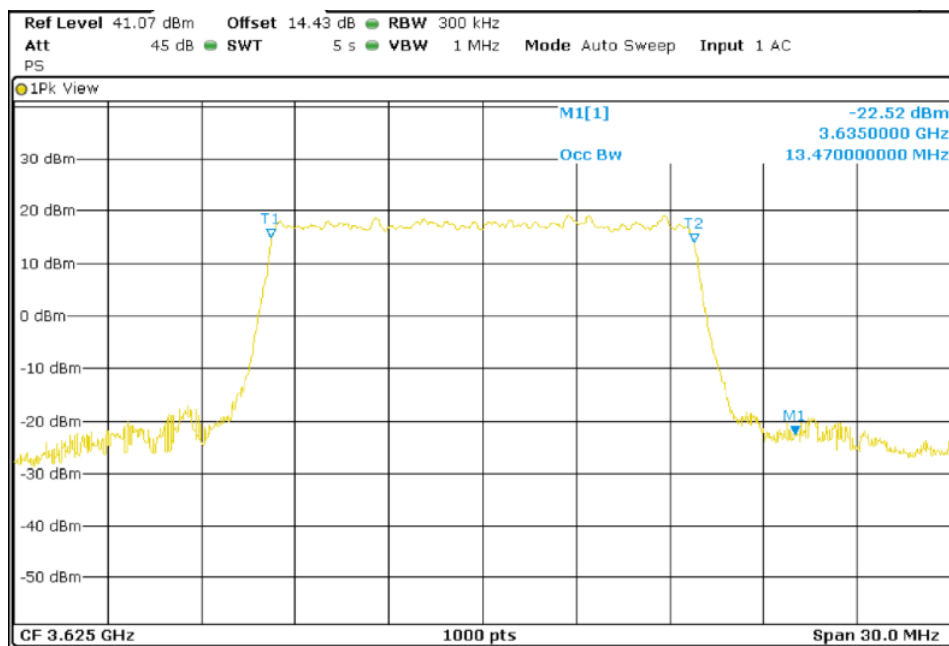


Lowest Channel (3557.5 MHz) 16QAM

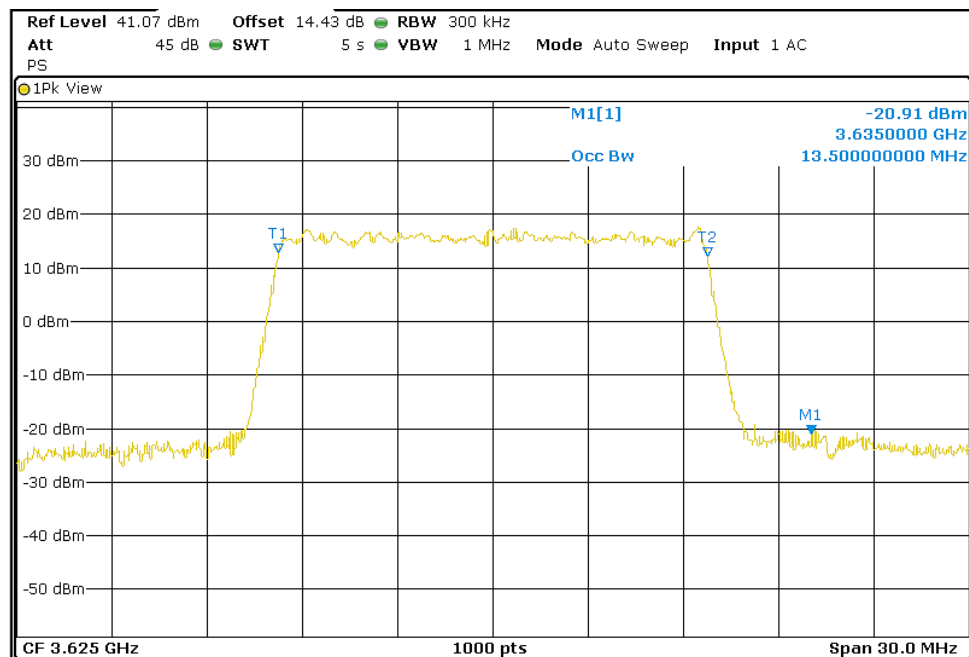


TEST RESULTS (Cont.):

Middle Channel (3625 MHz) QPSK

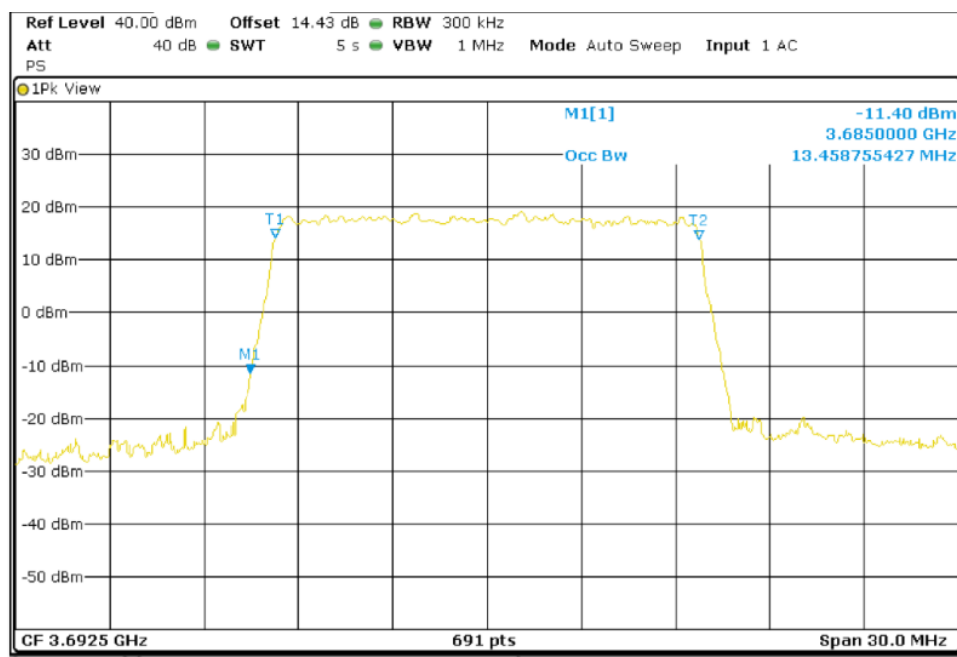


Middle Channel (3625 MHz) 16QAM

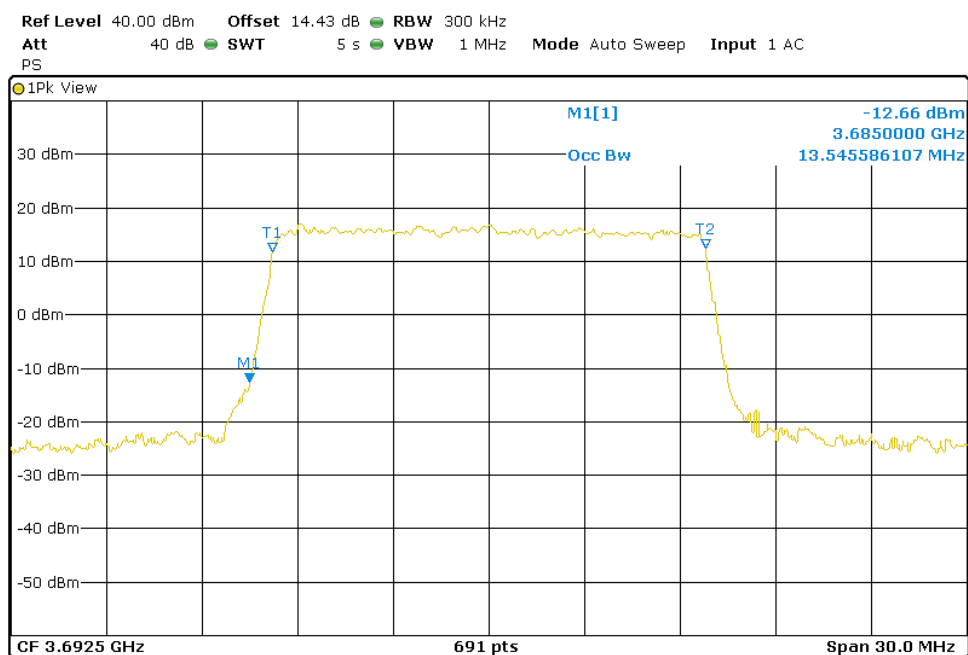


TEST RESULTS (Cont.):

Highest Channel (3692.5 MHz) QPSK



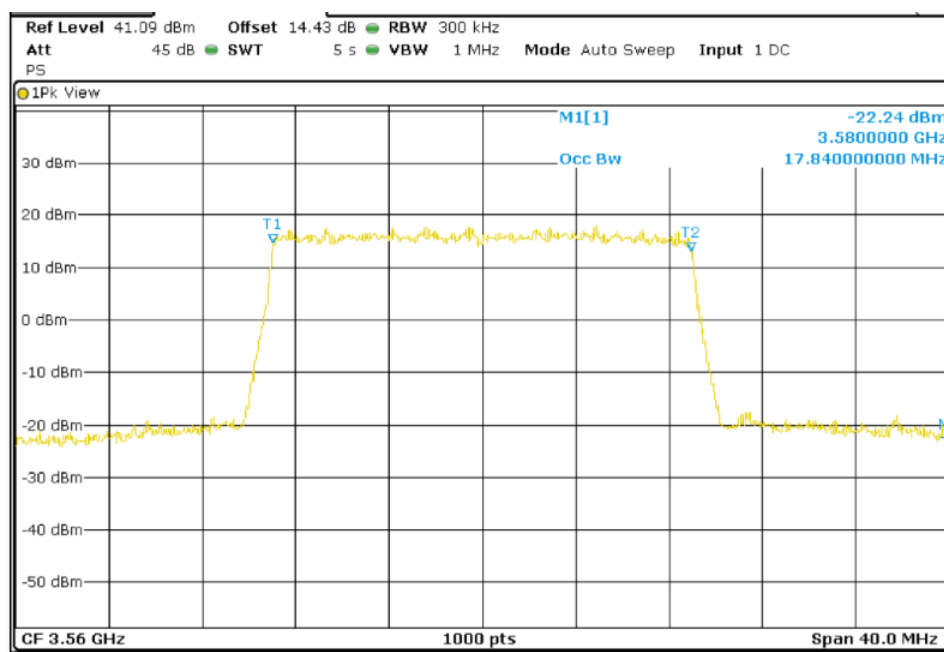
Highest Channel (3692.5 MHz) 16QAM



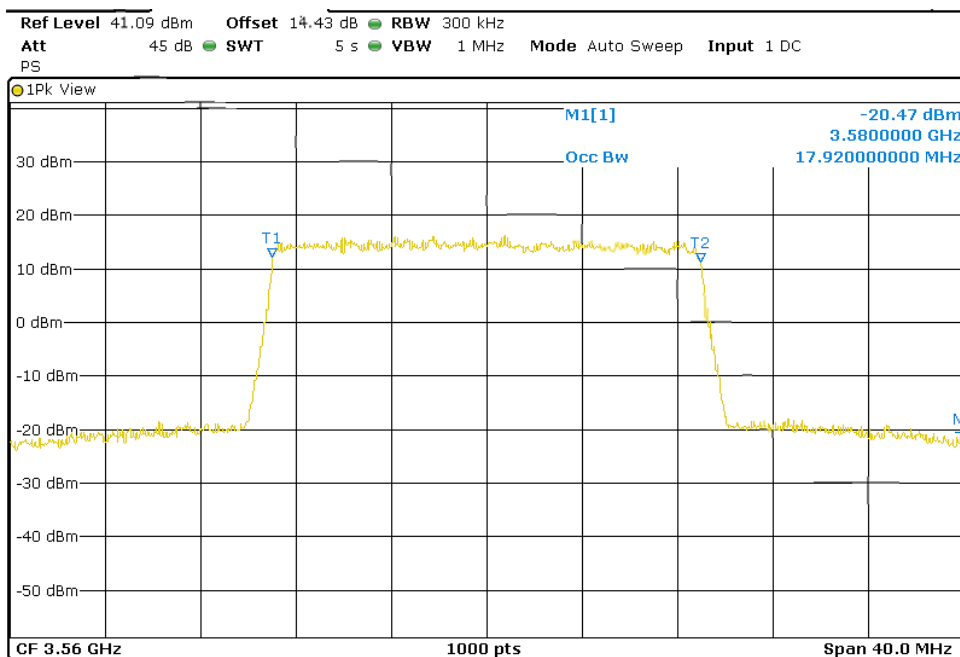
TEST RESULTS (Cont.):

20 MHz BW

Lowest Channel (3560 MHz) QPSK

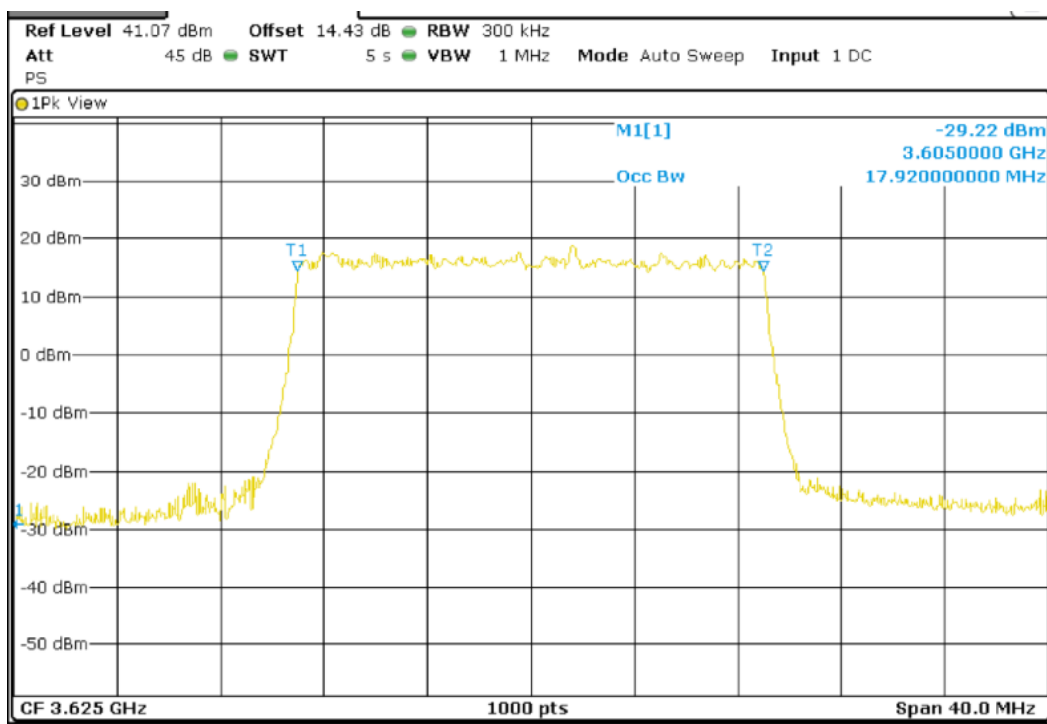


Lowest Channel (3560 MHz) 16QAM

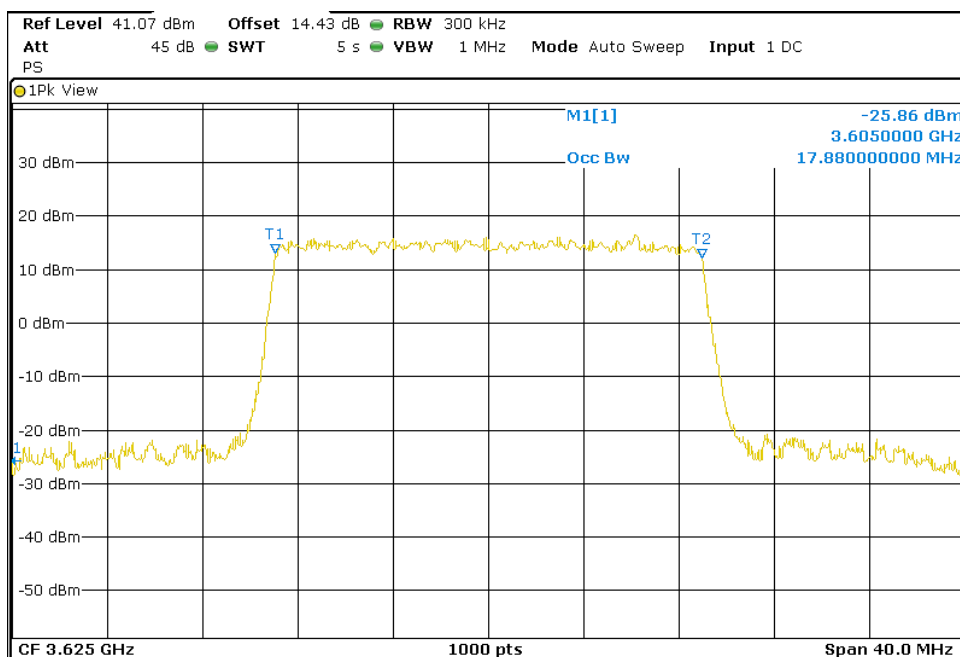


TEST RESULTS (Cont.):

Middle Channel (3625 MHz) QPSK

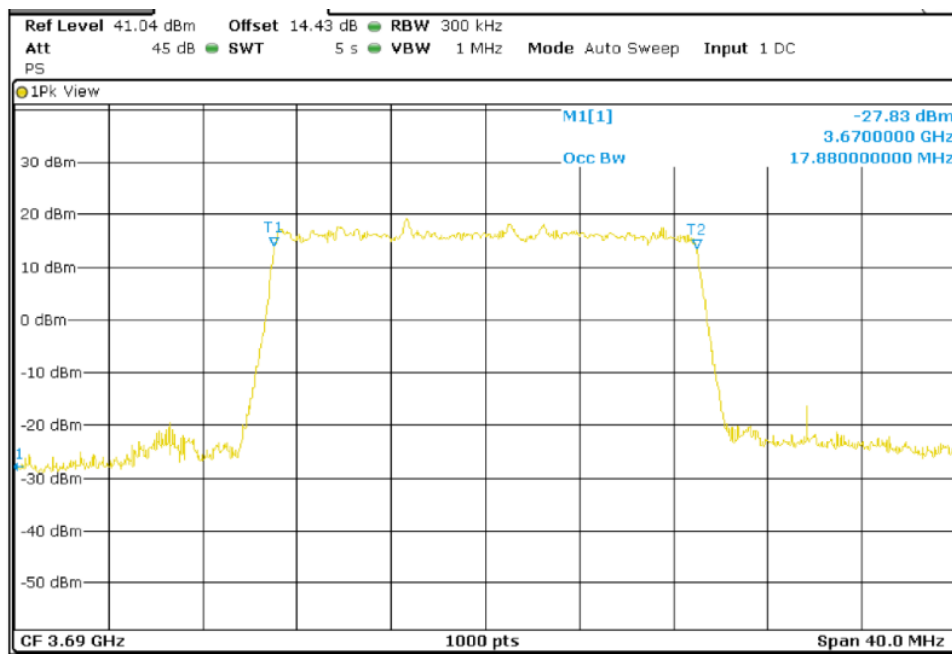


Middle Channel (3625 MHz) 16QAM

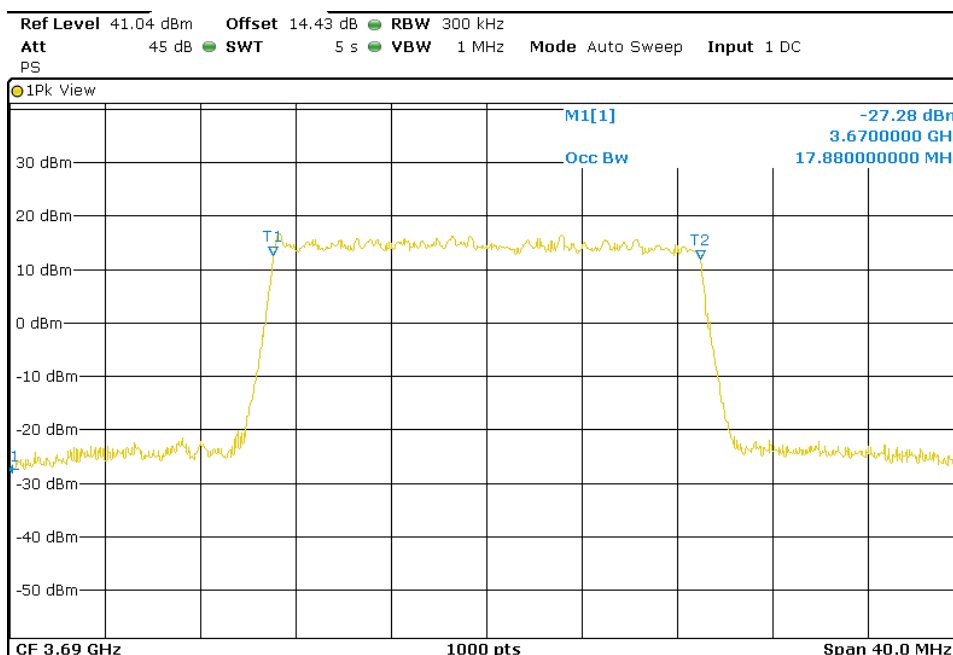


TEST RESULTS (Cont.):

High Channel (3690 MHz) QPSK



High Channel (3690 MHz) 16QAM

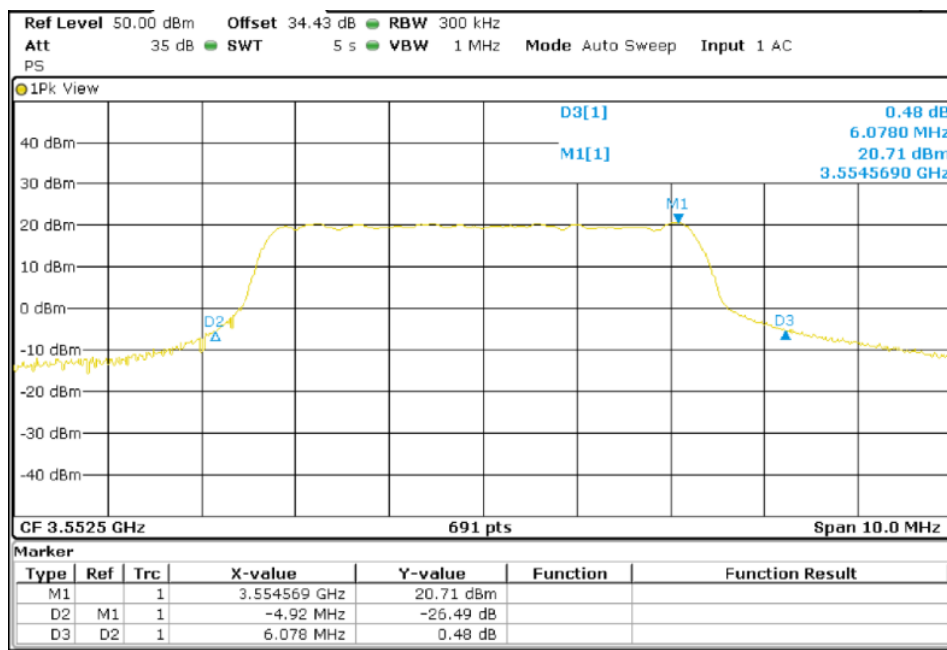


TEST RESULTS (Cont.):

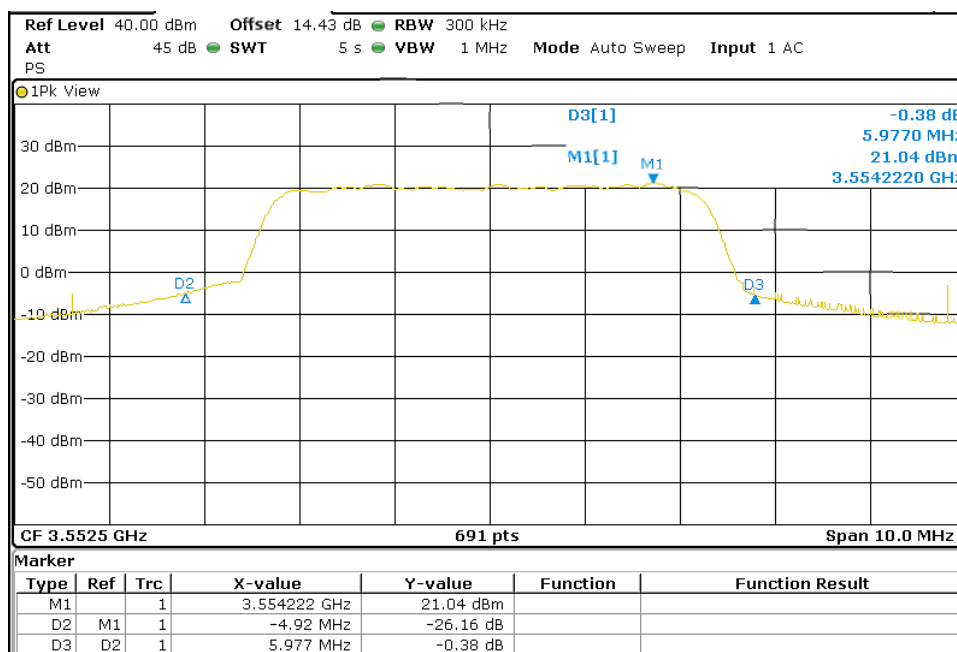
-26dB Bandwidth

5 MHz BW

Lowest Channel (3552.5 MHz) QPSK

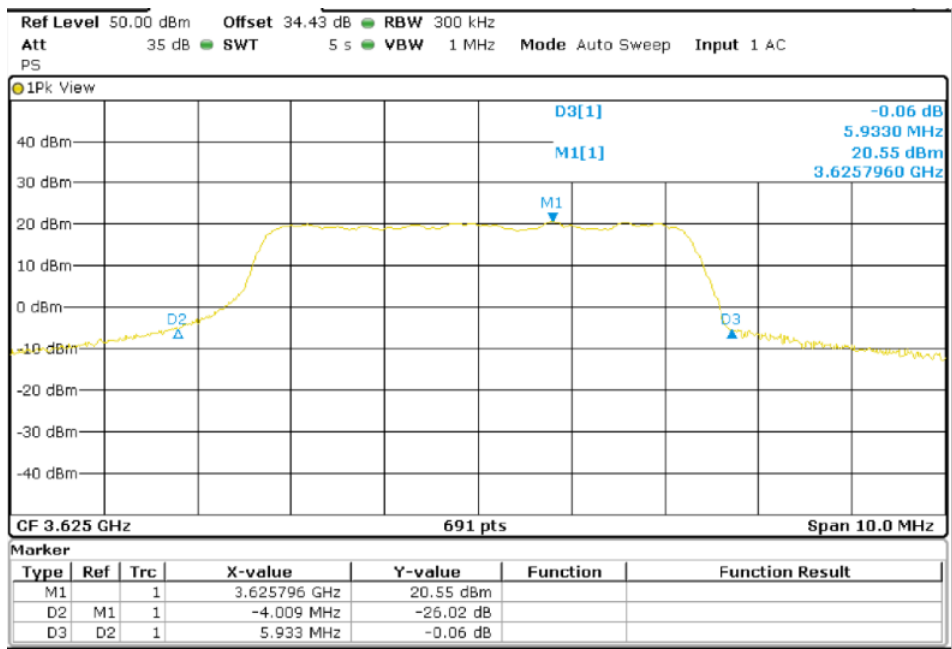


Lowest Channel (3552.5 MHz) 16QAM

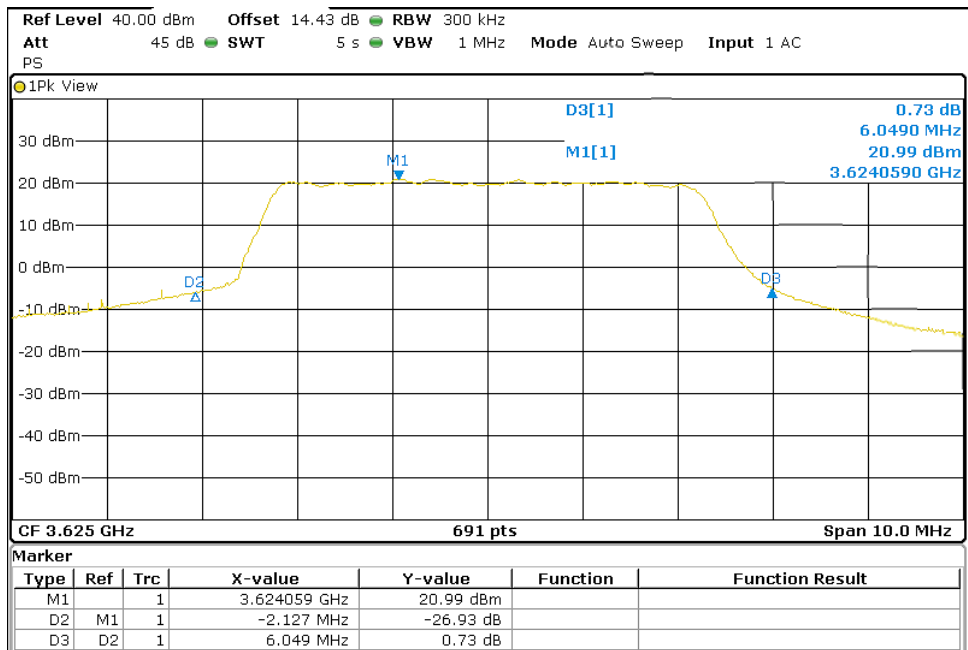


TEST RESULTS (Cont.):

Middle Channel (3625 MHz) QPSK

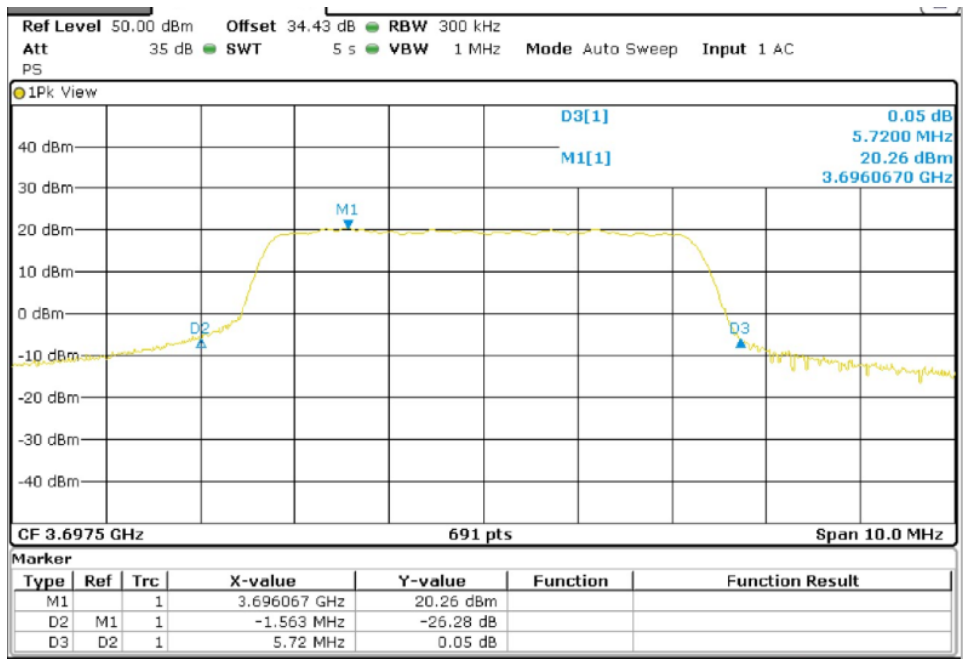


Middle Channel (3625 MHz) 16QAM

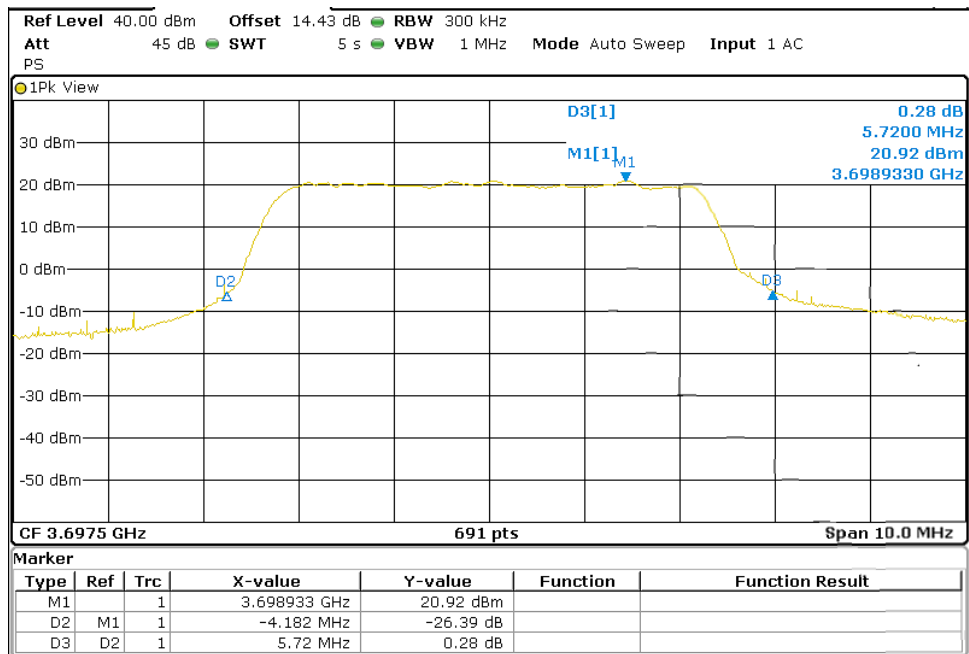


TEST RESULTS (Cont.):

Highest Channel (3697.5 MHz) QPSK



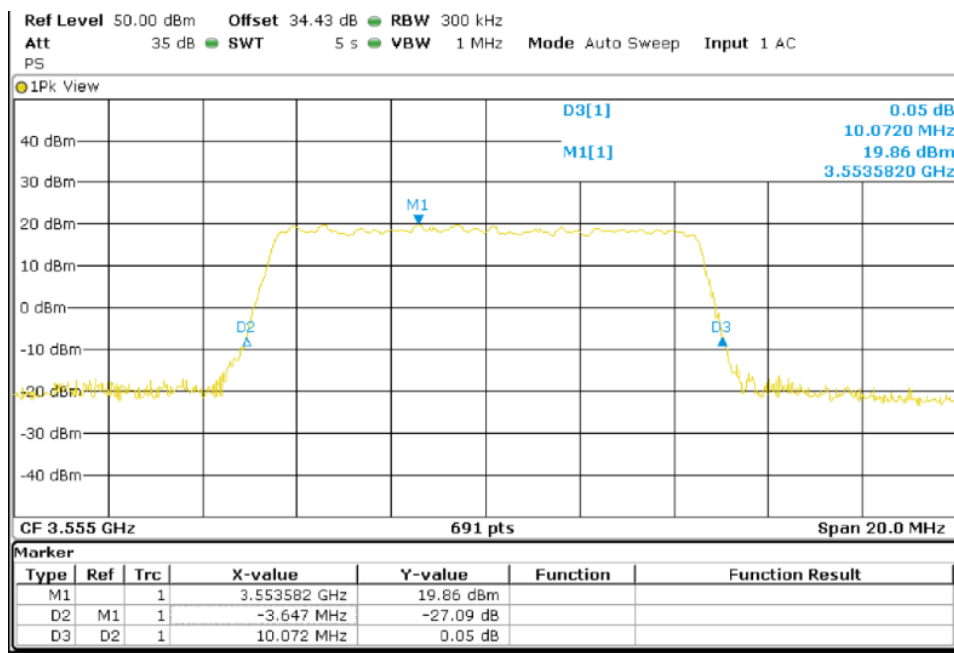
Highest Channel (3697.5 MHz) 16QAM



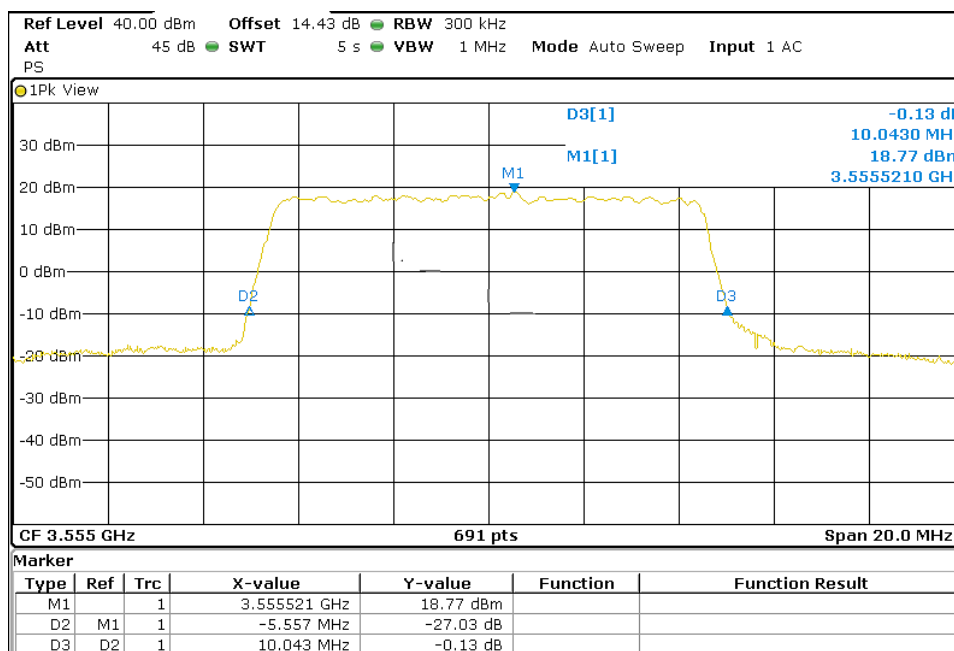
TEST RESULTS (Cont.):

10 MHz BW

Lowest Channel (3555 MHz) QPSK

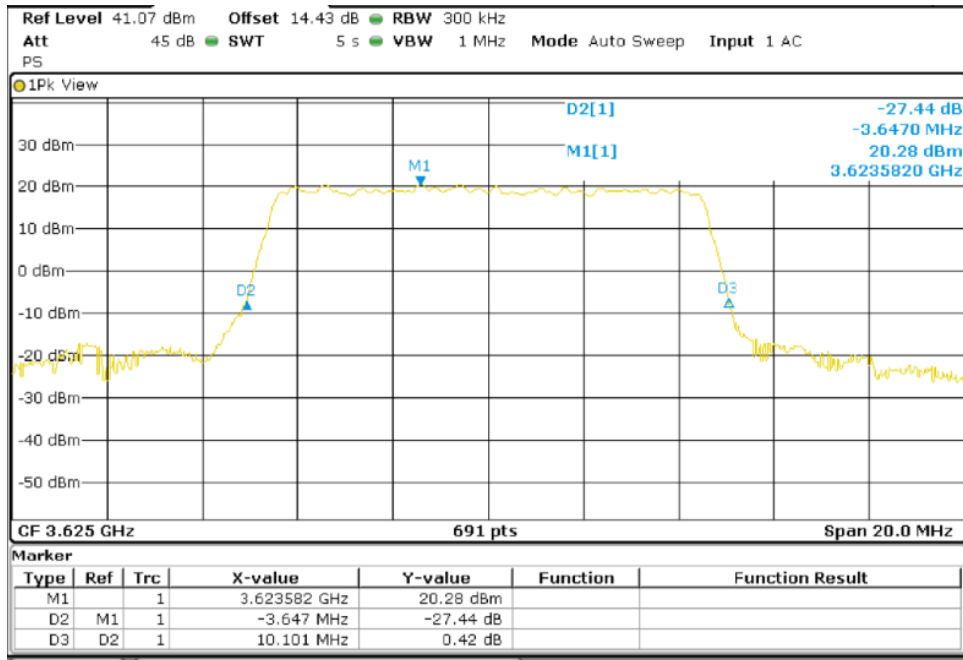


Lowest Channel (3555 MHz) 16QAM

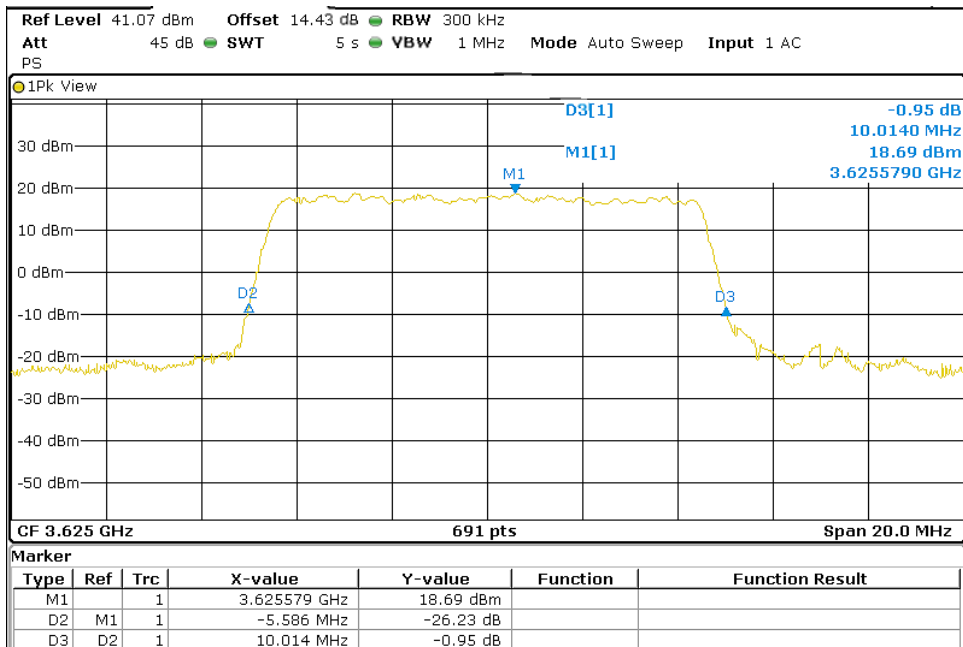


TEST RESULTS (Cont.):

Middle Channel (3625 MHz) QPSK

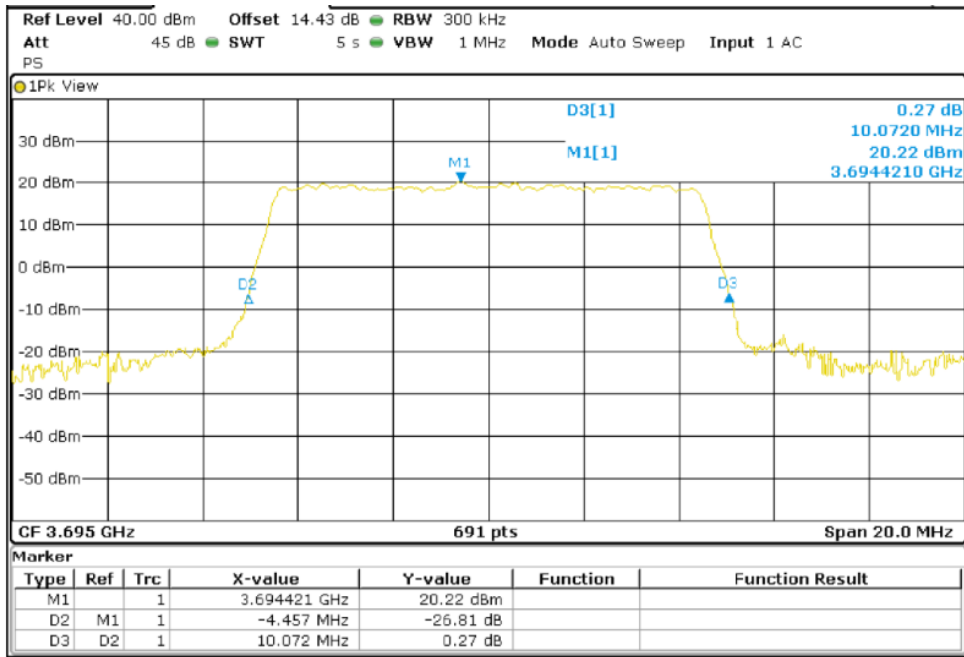


Middle Channel (3625 MHz) 16QAM

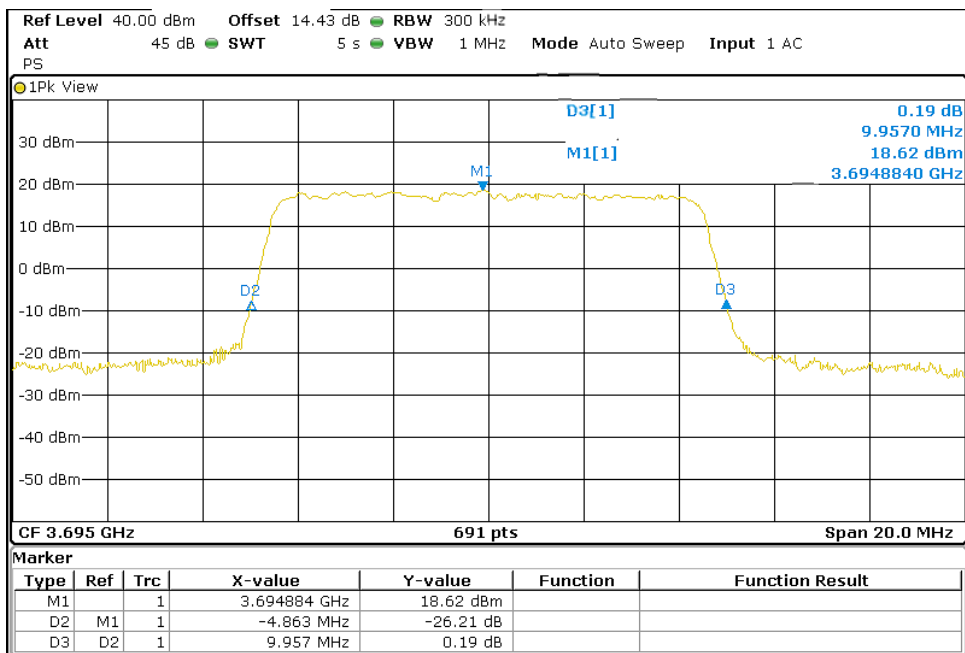


TEST RESULTS (Cont.):

High Channel (3695 MHz) QPSK



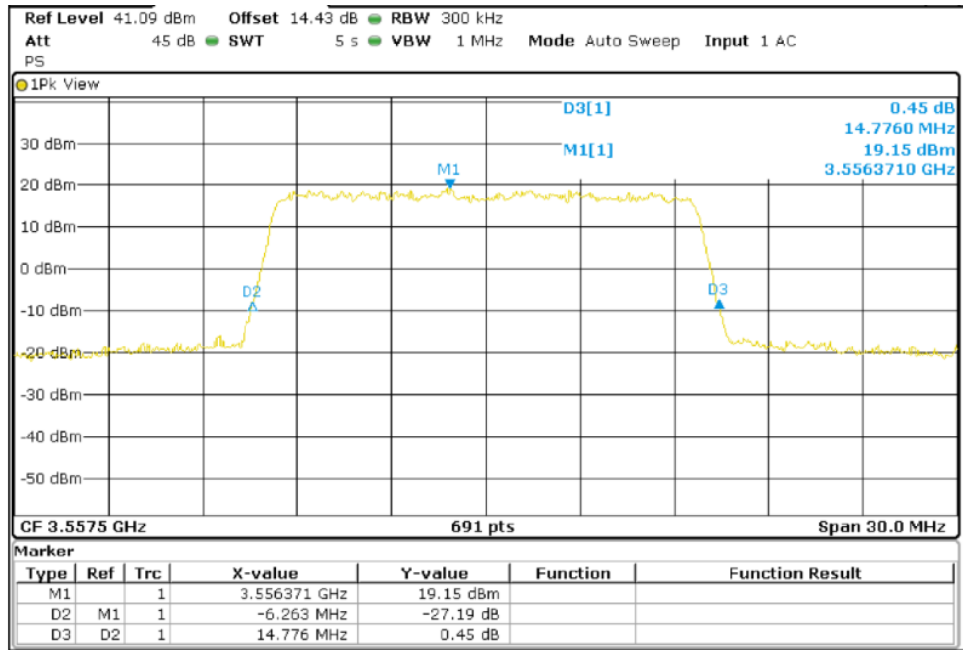
High Channel (3695 MHz) 16QAM



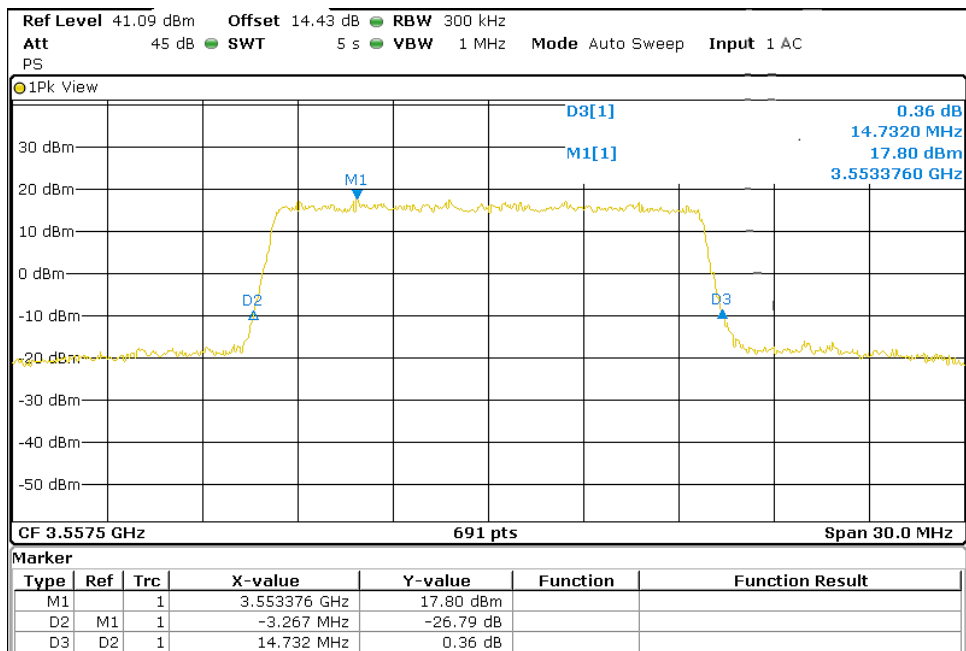
TEST RESULTS (Cont.):

15 MHz BW

Lowest Channel (3557.5 MHz) QPSK

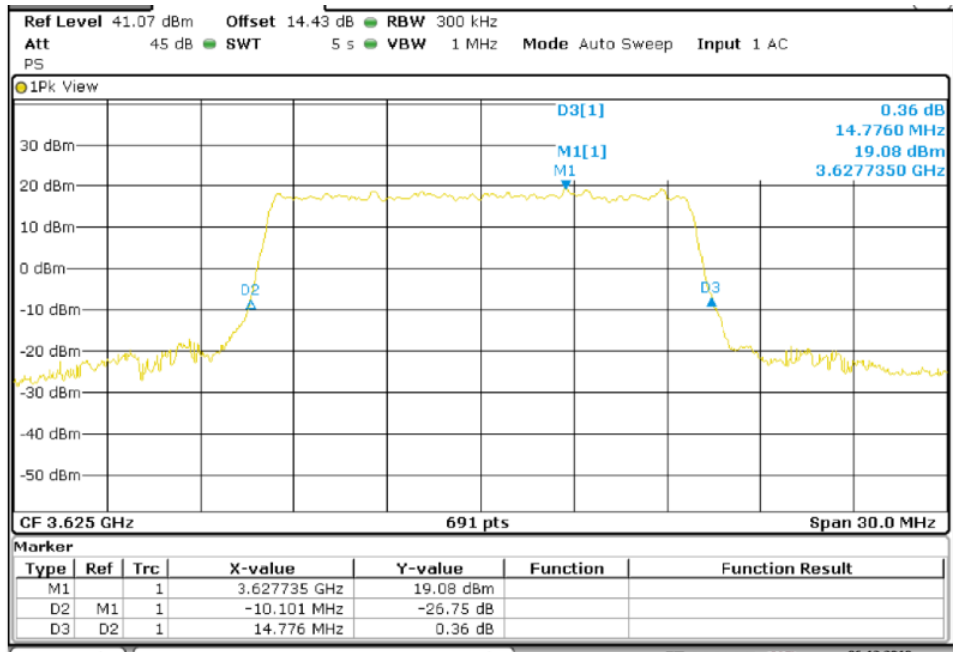


Lowest Channel (3557.5 MHz) 16QAM

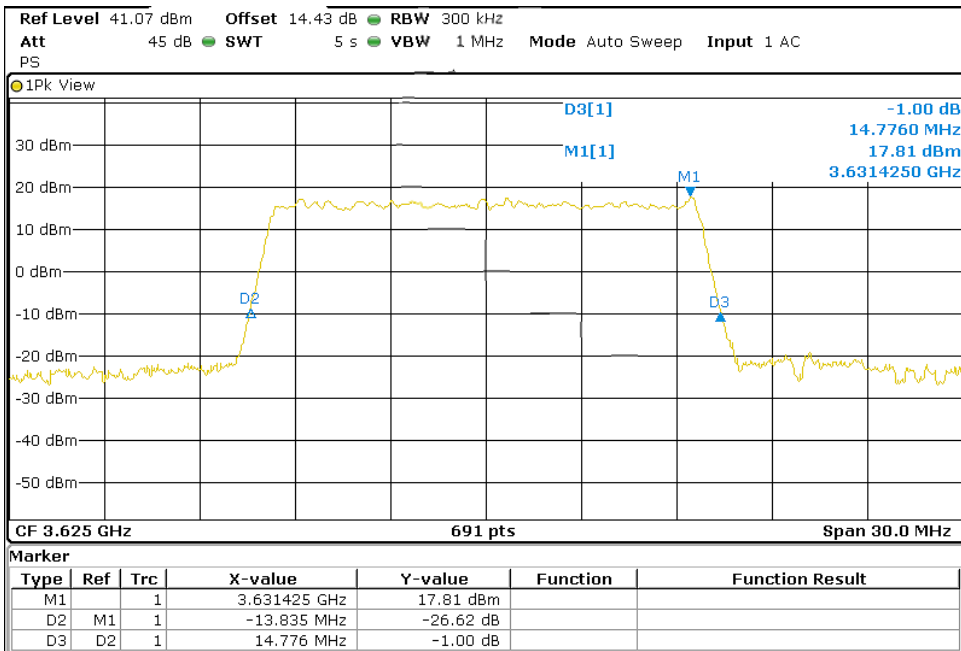


TEST RESULTS (Cont.):

Middle Channel (3625 MHz) QPSK

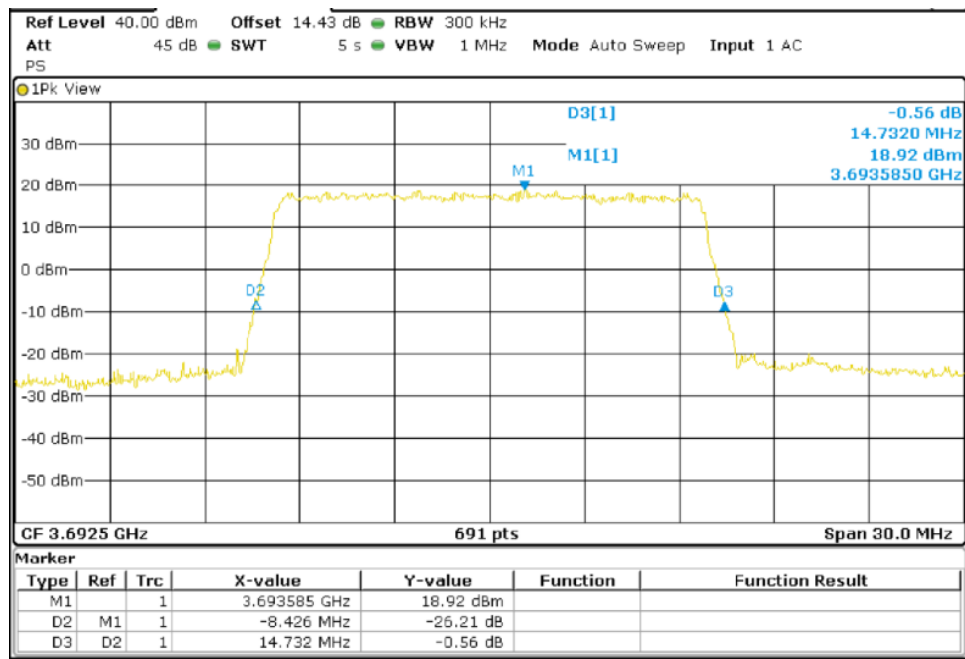


Middle Channel (3625 MHz) 16QAM

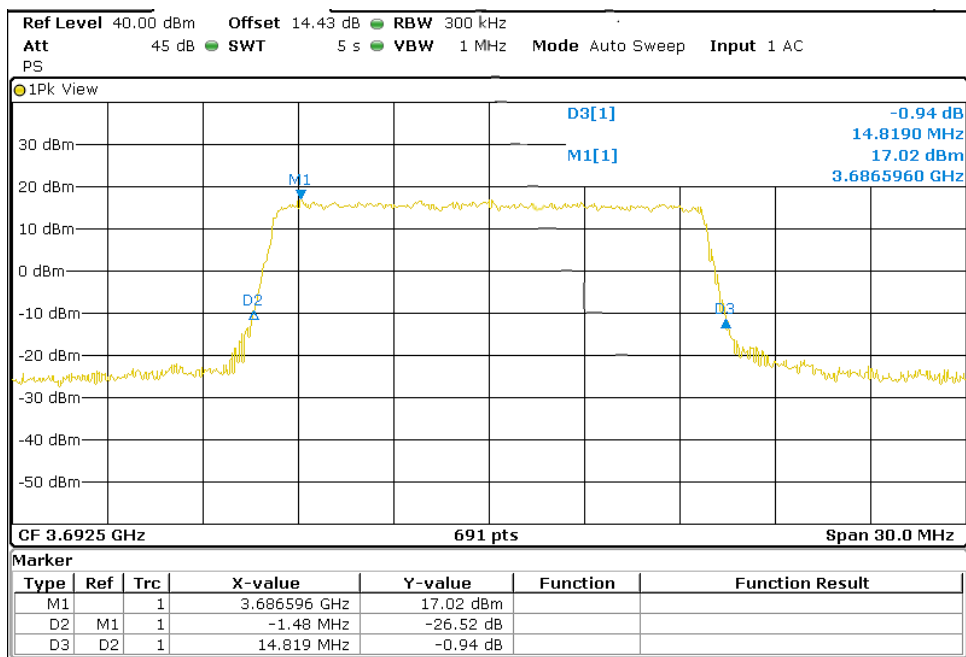


TEST RESULTS (Cont.):

Highest Channel (3692.5 MHz) QPSK



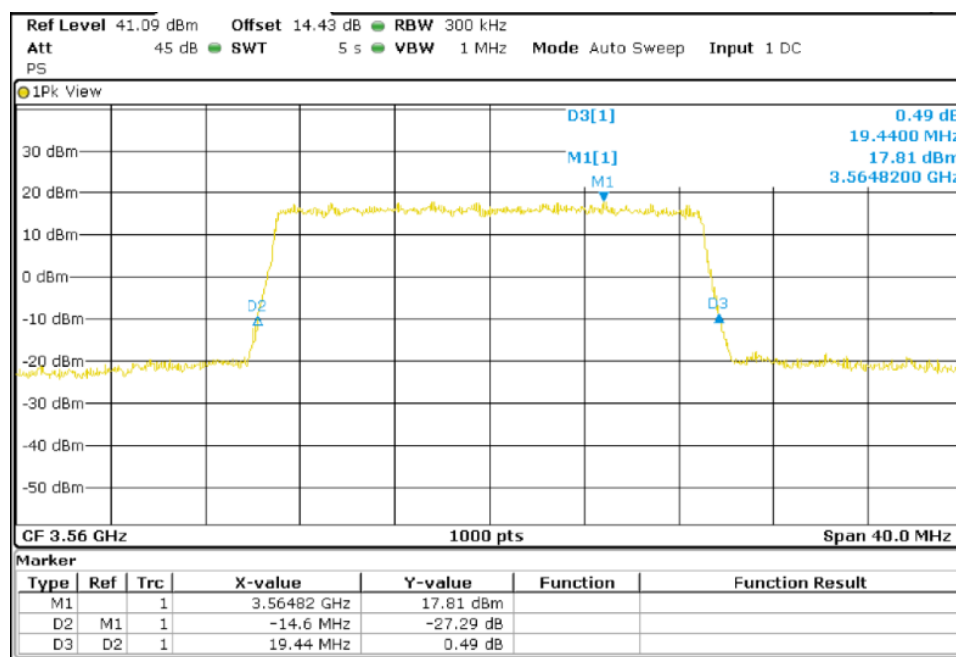
Highest Channel (3692.5 MHz) 16QAM



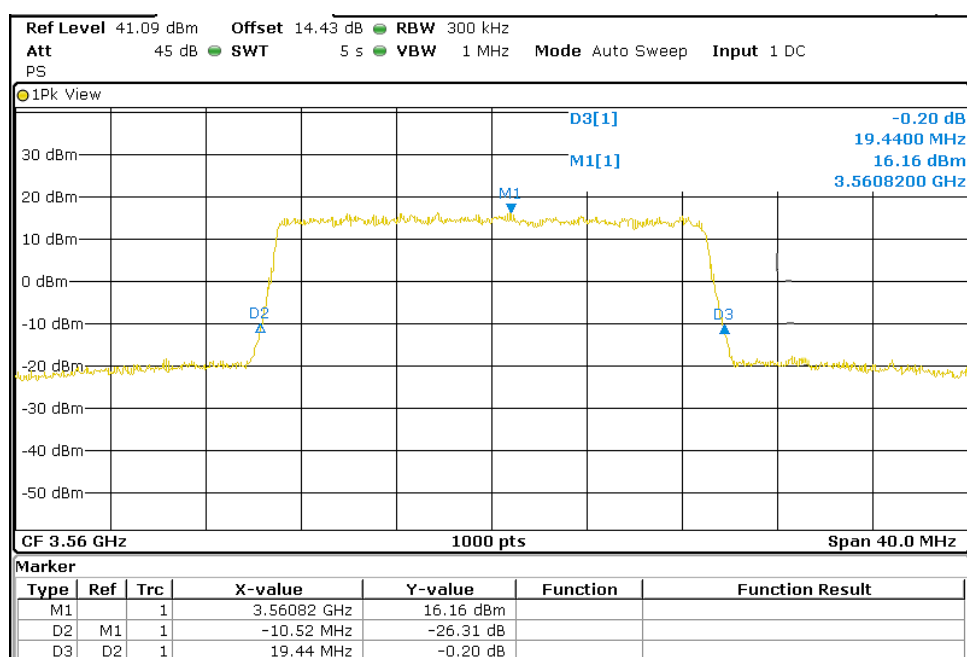
TEST RESULTS (Cont.):

20 MHz BW

Lowest Channel (3560 MHz) QPSK

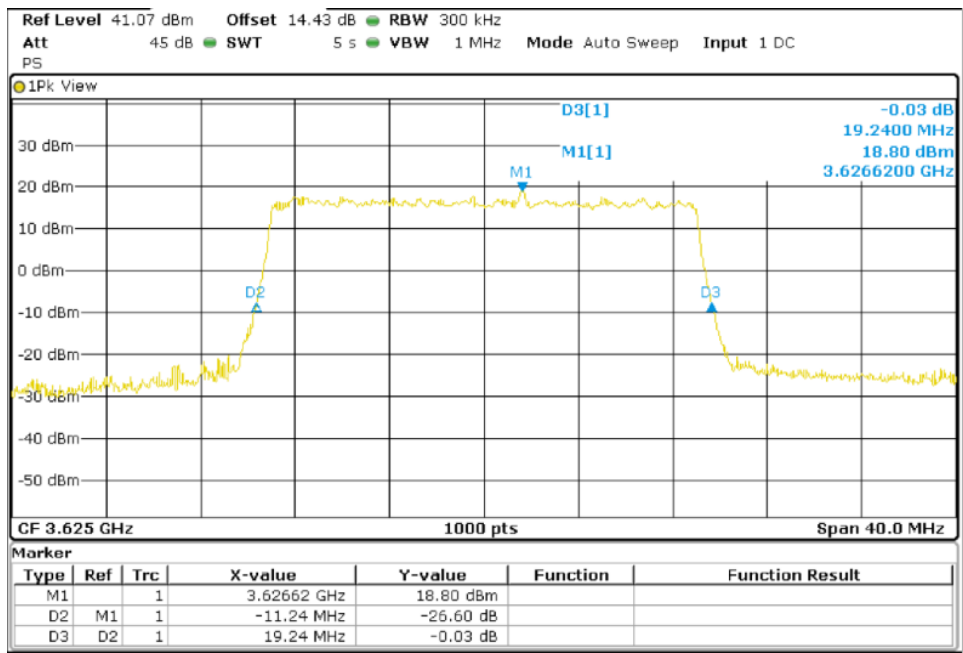


Lowest Channel (3560 MHz) 16QAM

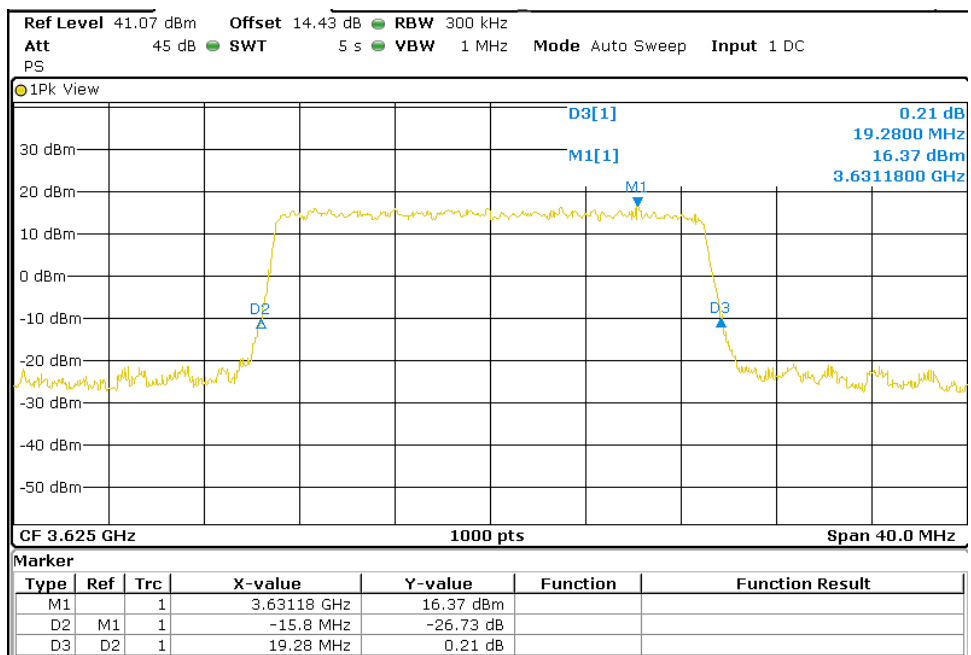


TEST RESULTS (Cont.):

Middle Channel (3625 MHz) QPSK

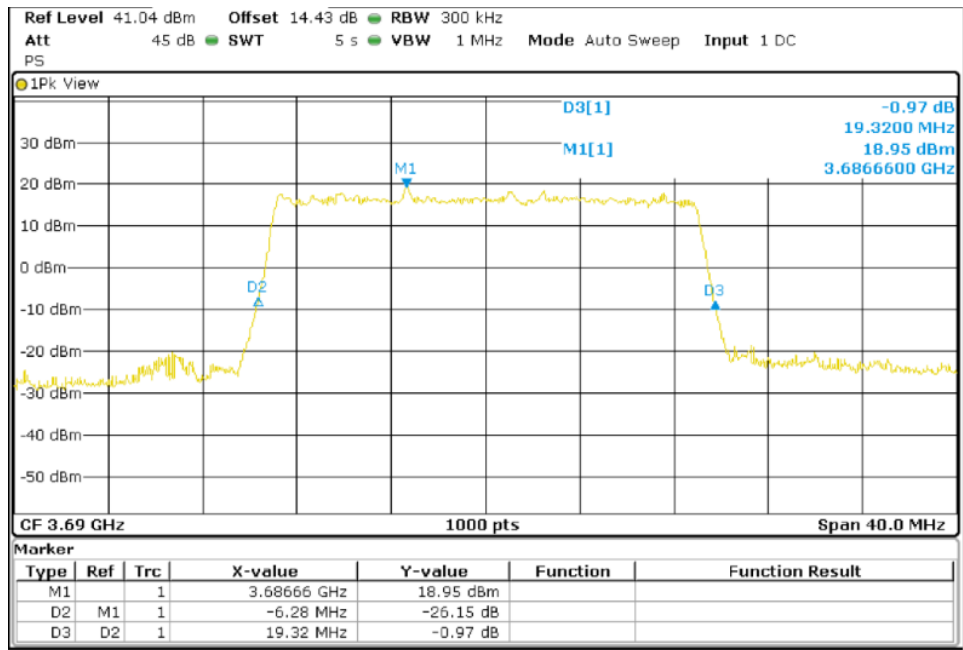


Middle Channel (3625 MHz) 16QAM

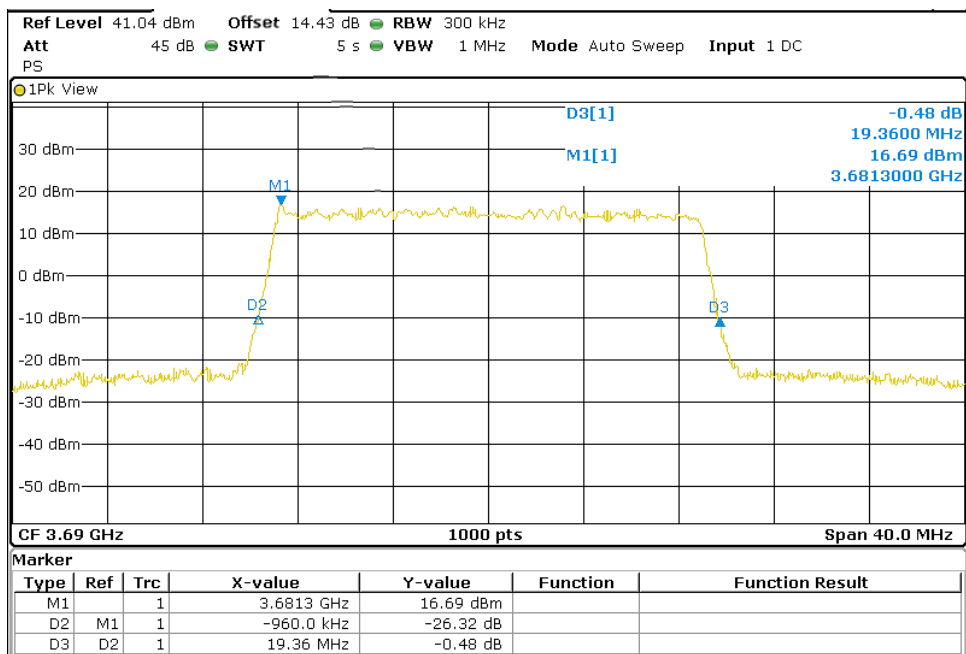


TEST RESULTS (Cont.):

High Channel (3690 MHz) QPSK



High Channel (3690 MHz) 16QAM



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02 (Band 42)
TEST RESULTS:	PASS

Results:

5 MHz BW

QPSK

	Lowest frequency 3552.5 MHz	Middle frequency 3575 MHz	Highest frequency 3597.5 MHz
99% OBW (MHz)	4.70	4.67	4.70
-26 dB Bandwidth (MHz)	6.08	5.77	6.17
Measurement uncertainty (kHz)	<±8.33		

16QAM

	Lowest frequency 3552.5 MHz	Middle frequency 3575 MHz	Highest frequency 3597.5 MHz
99% OBW (MHz)	4.67	4.68	4.67
-26 dB Bandwidth (MHz)	5.98	5.67	6.01
Measurement uncertainty (kHz)	<±8.33		

10 MHz BW

QPSK

	Lowest frequency 3555 MHz	Middle frequency 3575 MHz	Highest frequency 3595 MHz
99% OBW (MHz)	9.04	9.08	9.05
-26 dB Bandwidth (MHz)	10.07	10.10	10.04
Measurement uncertainty (kHz)	<±8.33		

16QAM

	Lowest frequency 3555 MHz	Middle frequency 3575 MHz	Highest frequency 3595 MHz
99% OBW (MHz)	9.04	9.04	9.00
-26 dB Bandwidth (MHz)	10.04	10.01	9.96
Measurement uncertainty (kHz)	<±8.33		

TEST RESULTS (Cont.):

15 MHz BW

QPSK

	Lowest frequency 3557.5 MHz	Middle frequency 3575 MHz	Highest frequency 3592.5 MHz
99% OBW (MHz)	13.44	13.41	13.47
-26 dB Bandwidth (MHz)	14.78	14.81	14.85
Measurement uncertainty (kHz)	<±8.33		

16QAM

	Lowest frequency 3557.5 MHz	Middle frequency 3575 MHz	Highest frequency 3592.5 MHz
99% OBW (MHz)	13.44	13.47	13.50
-26 dB Bandwidth (MHz)	14.73	14.72	14.85
Measurement uncertainty (kHz)	<±8.33		

20 MHz BW

QPSK

	Lowest frequency 3560 MHz	Middle frequency 3575 MHz	Highest frequency 3590 MHz
99% OBW (MHz)	17.84	17.88	17.92
-26 dB Bandwidth (MHz)	19.44	19.44	19.24
Measurement uncertainty (kHz)	<±8.33		

16QAM

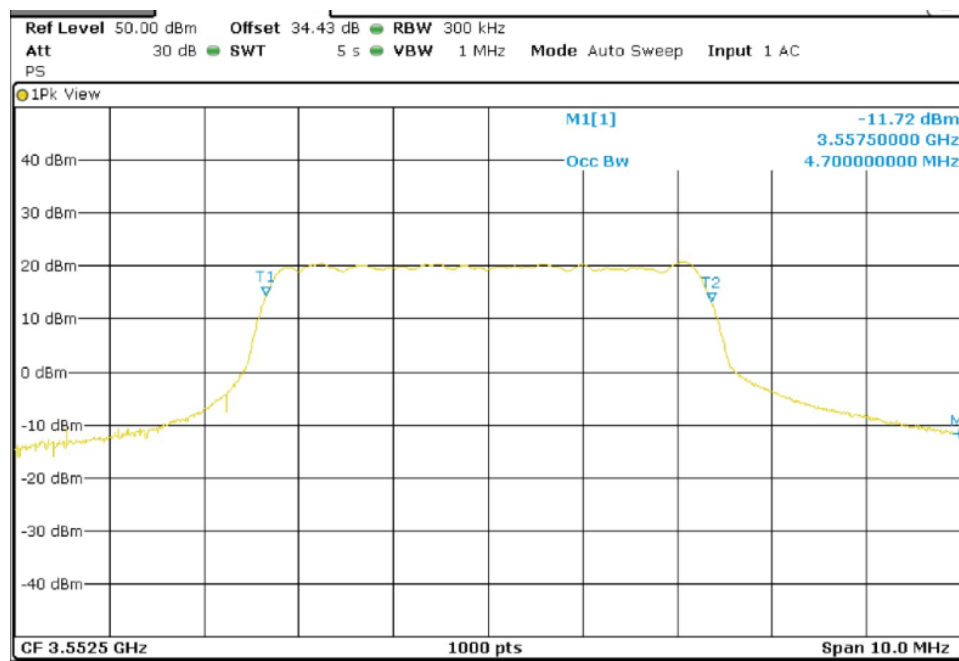
	Lowest frequency 3560 MHz	Middle frequency 3575 MHz	Highest frequency 3590 MHz
99% OBW (MHz)	17.92	17.84	17.88
-26 dB Bandwidth (MHz)	19.44	19.44	19.32
Measurement uncertainty (kHz)	<±8.33		

Verdict: PASS
(See next plots)

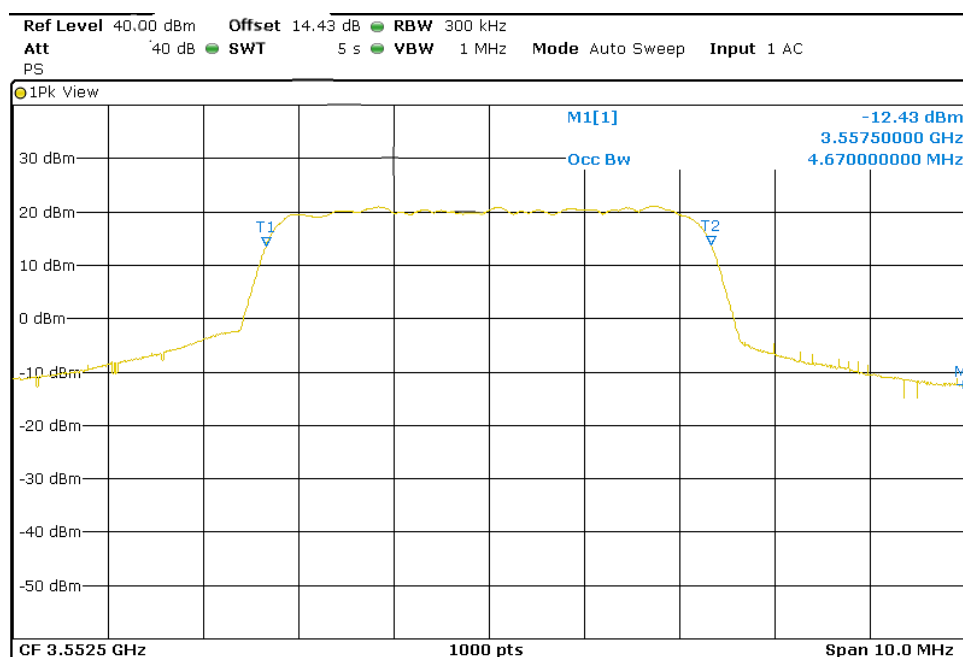
TEST RESULTS (Cont.):

5 MHz BW

Lowest Channel (3552.5 MHz) QPSK

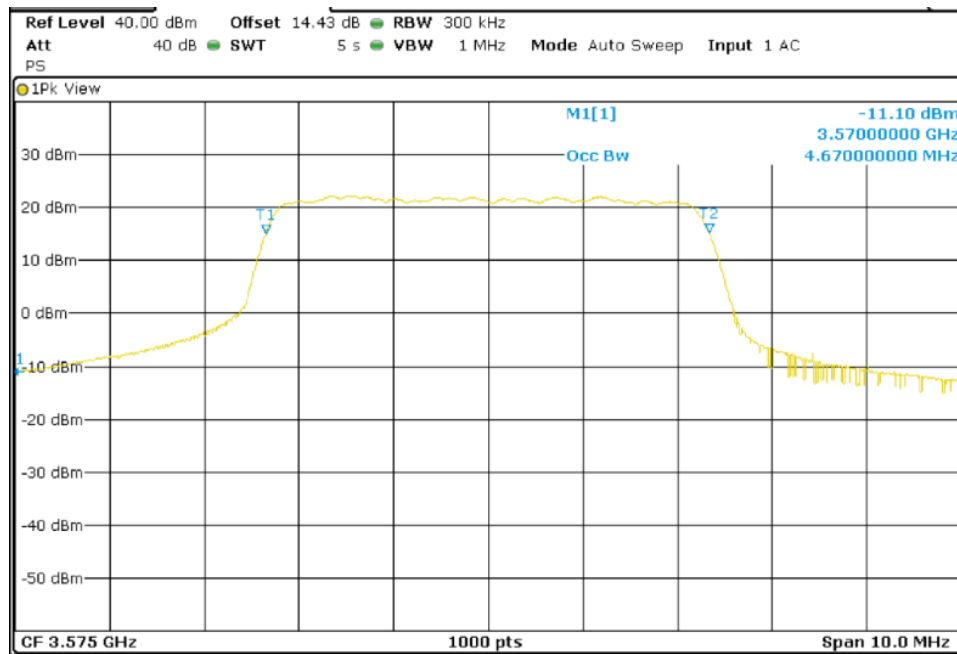


Lowest Channel (3552.5 MHz) 16QAM

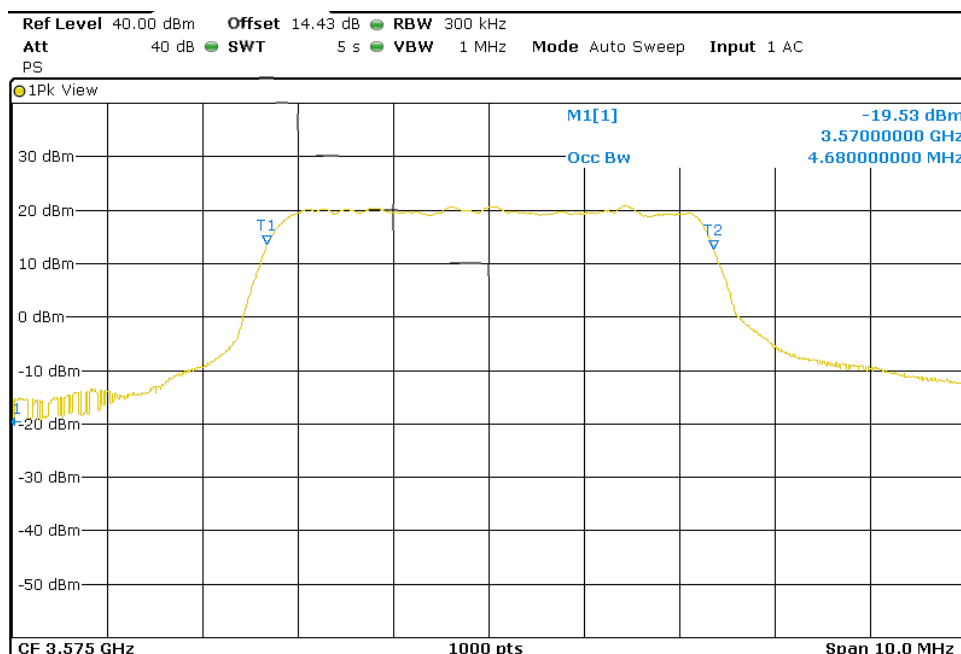


TEST RESULTS (Cont.):

Middle Channel (3575 MHz) QPSK

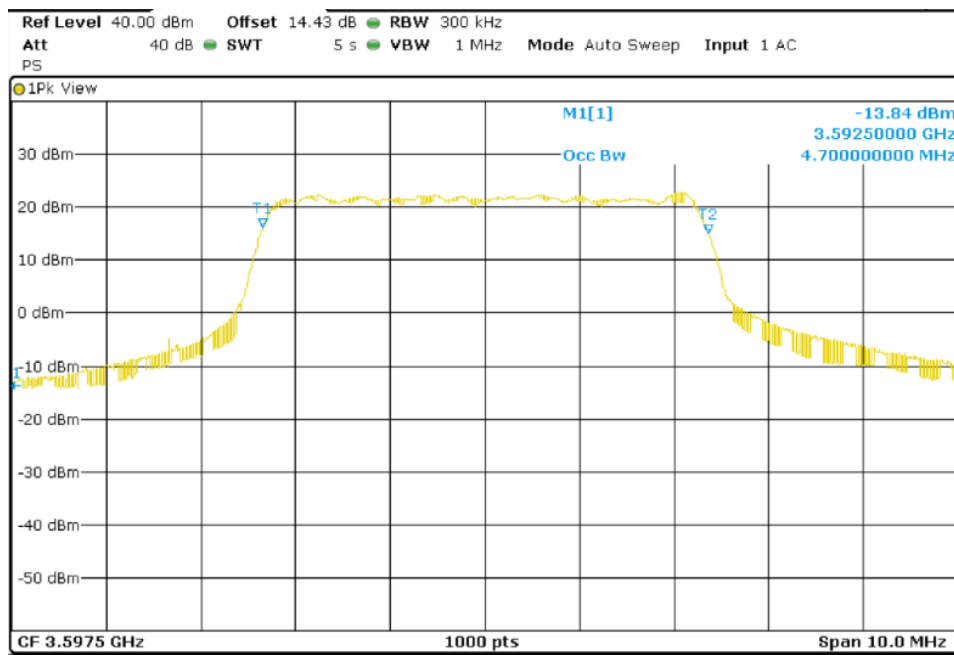


Middle Channel (3575 MHz) 16QAM

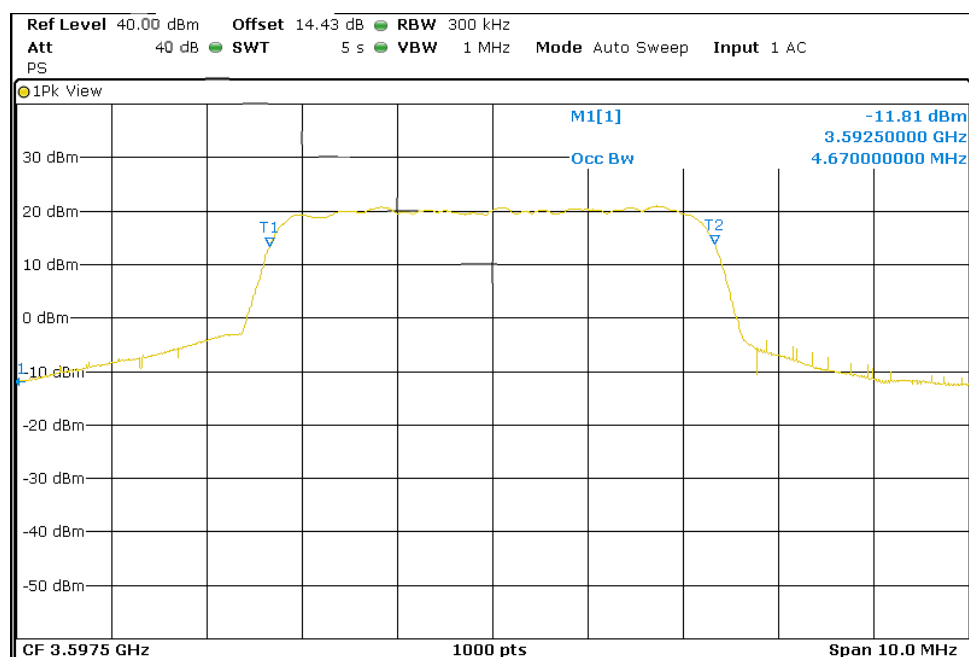


TEST RESULTS (Cont.):

Highest Channel (3597.5 MHz) QPSK



Highest Channel (3597.5 MHz) 16QAM

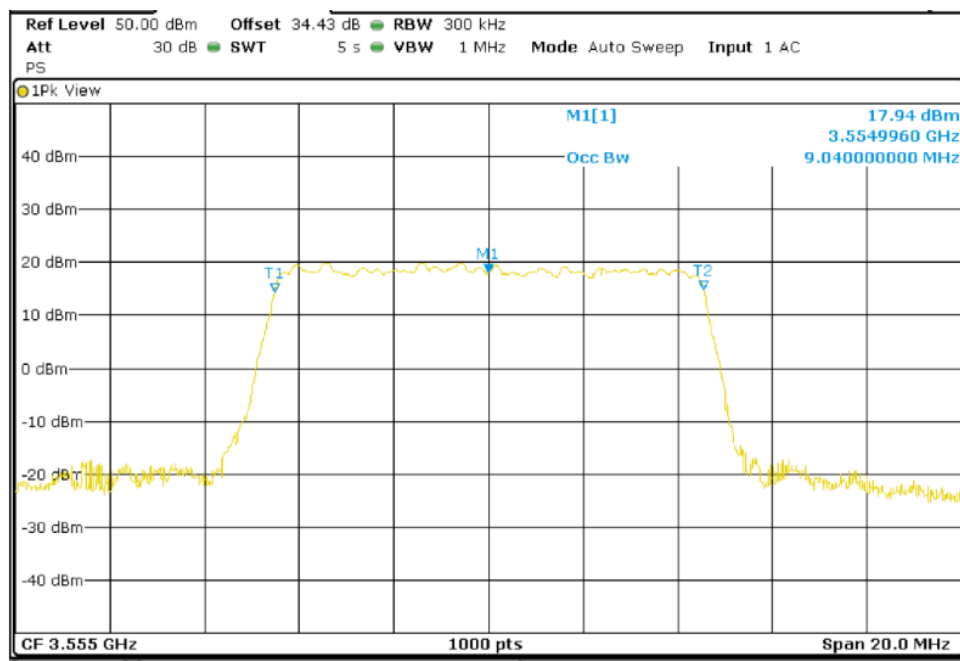


TEST RESULTS (Cont.):

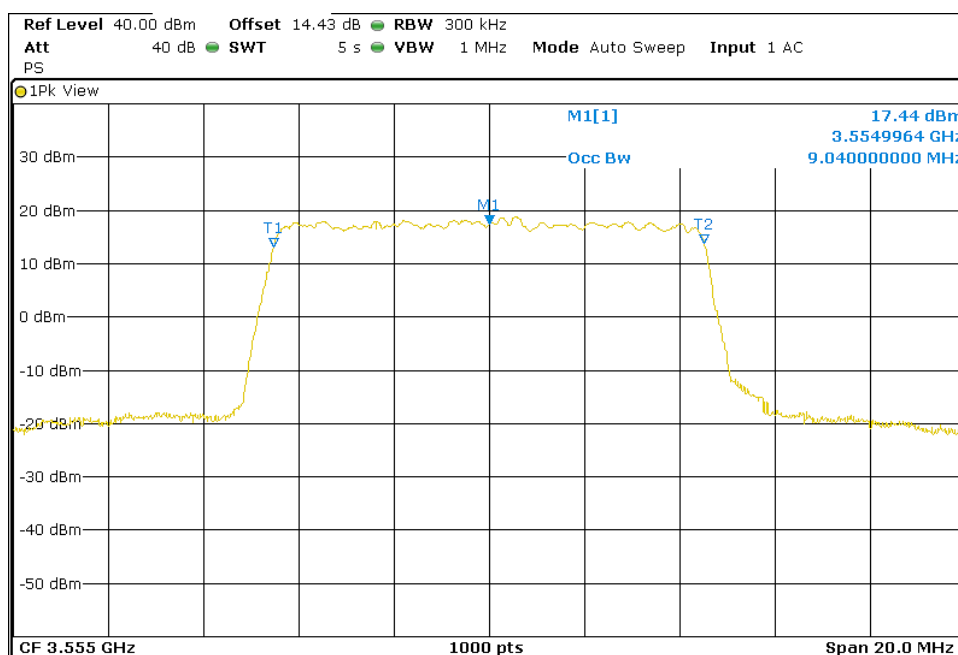
99% OBW

10 MHz BW

Lowest Channel (3555 MHz) QPSK

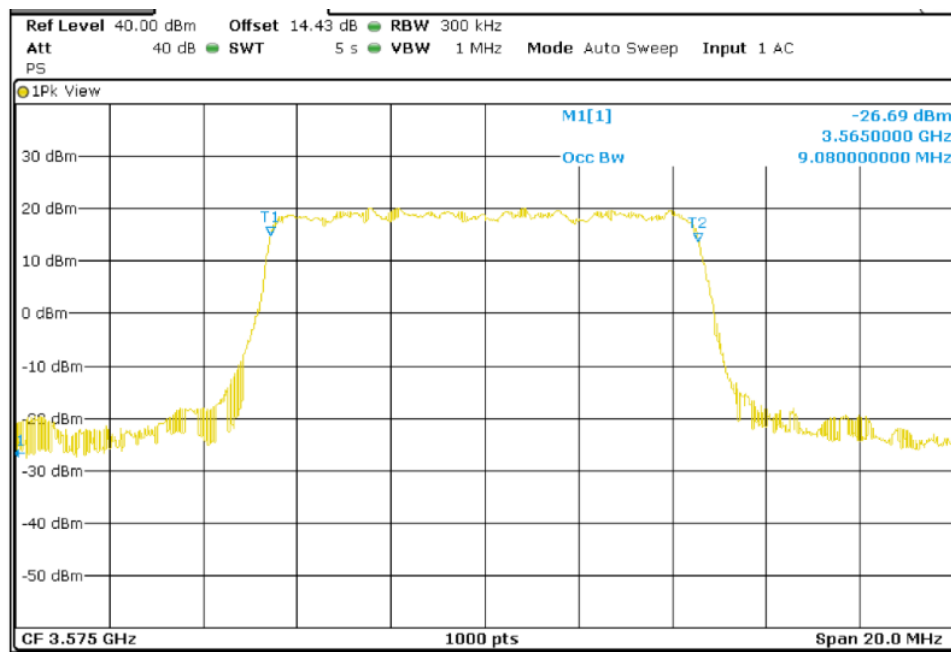


Lowest Channel (3555 MHz) 16QAM

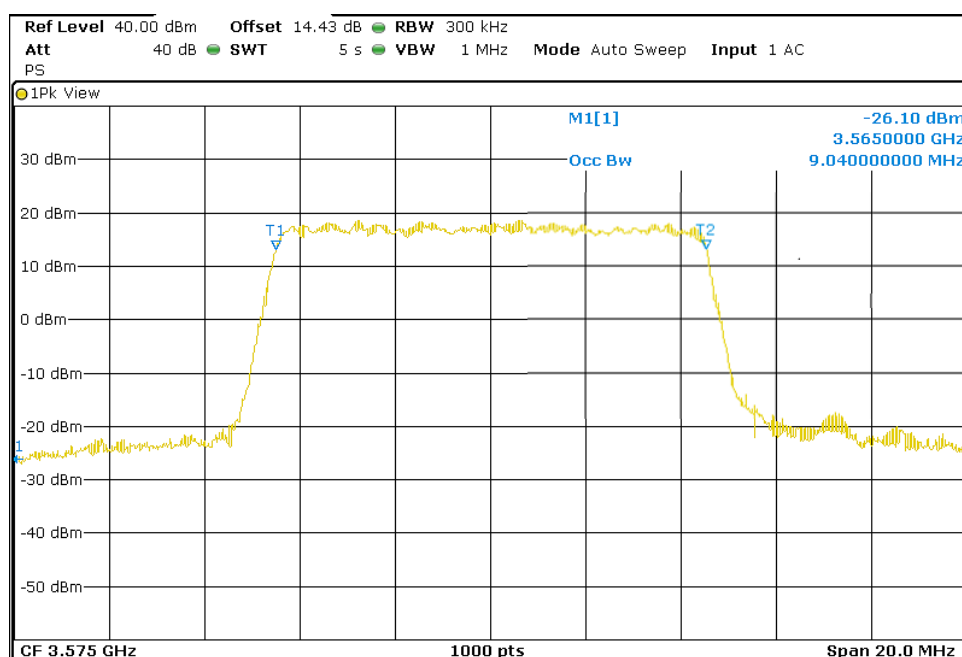


TEST RESULTS (Cont.):

Middle Channel (3575 MHz) QPSK

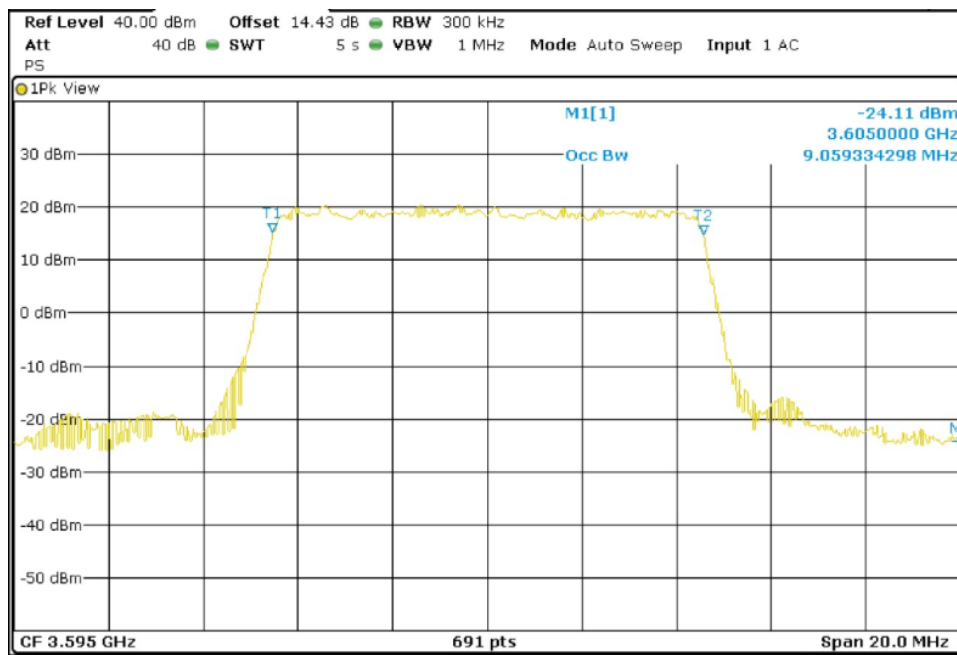


Middle Channel (3575 MHz) 16QAM

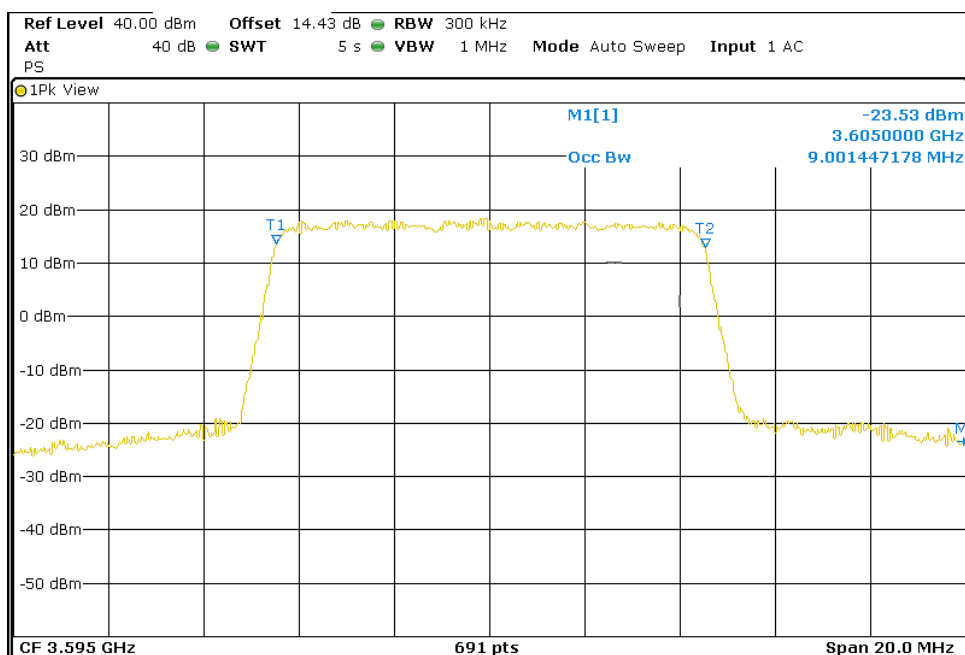


TEST RESULTS (Cont.):

High Channel (3595 MHz) QPSK



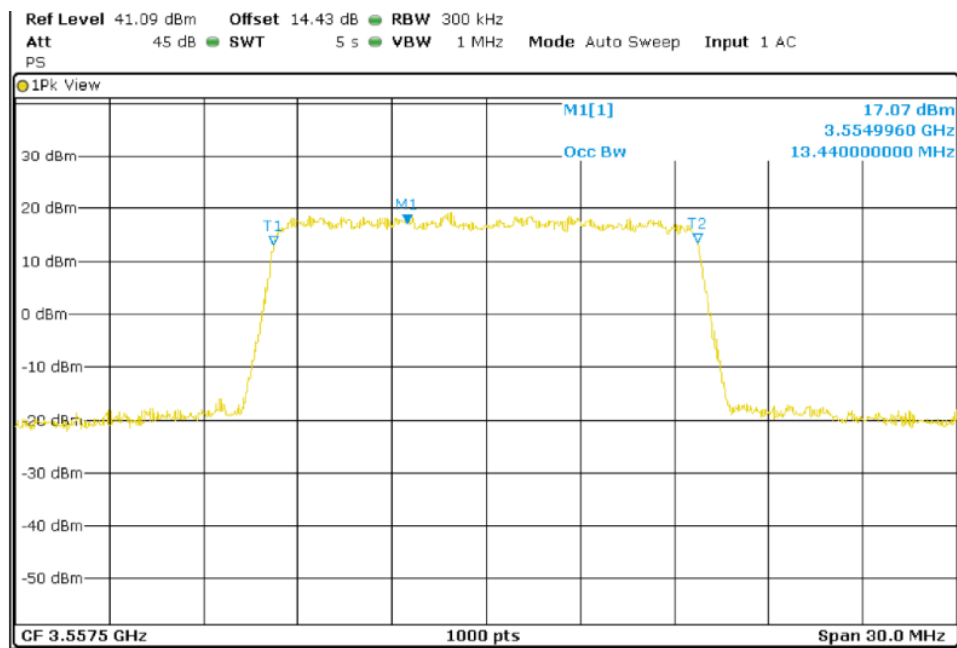
High Channel (3595 MHz) 16QAM



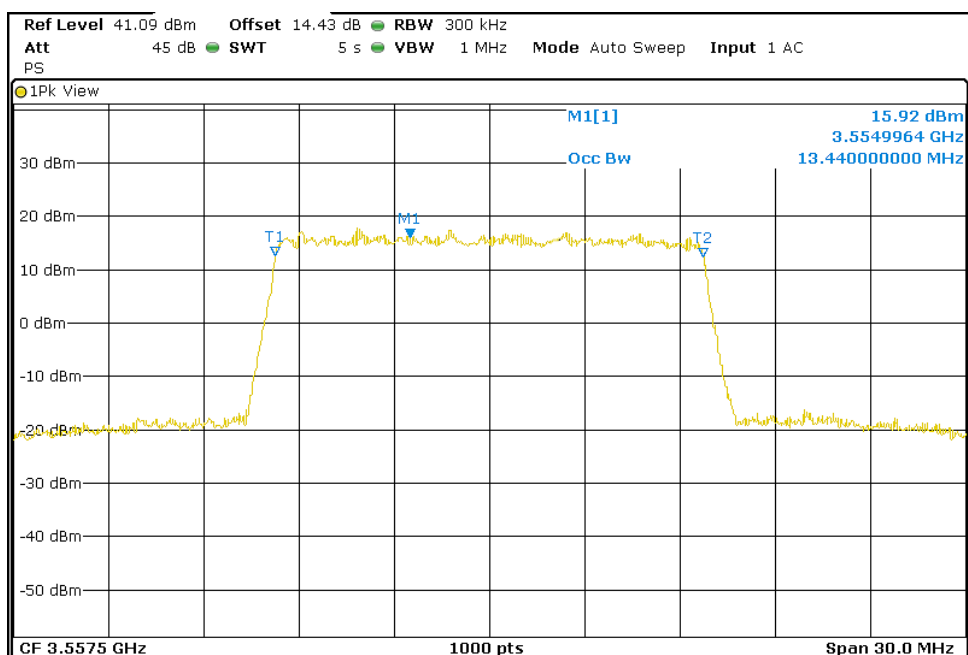
TEST RESULTS (Cont.):

15 MHz BW

Lowest Channel (3557.5 MHz) QPSK

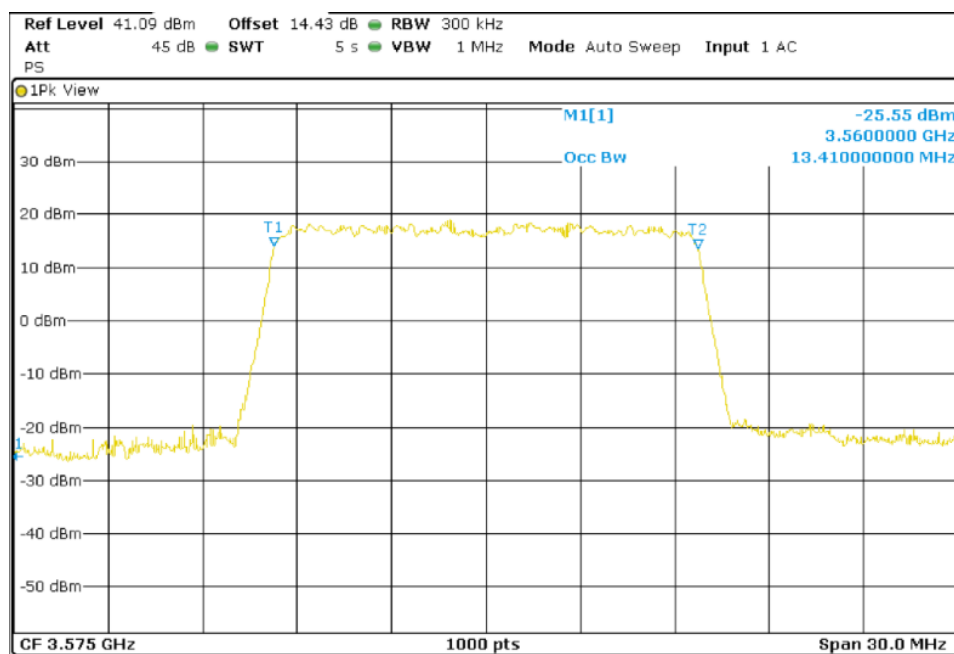


Lowest Channel (3557.5 MHz) 16QAM

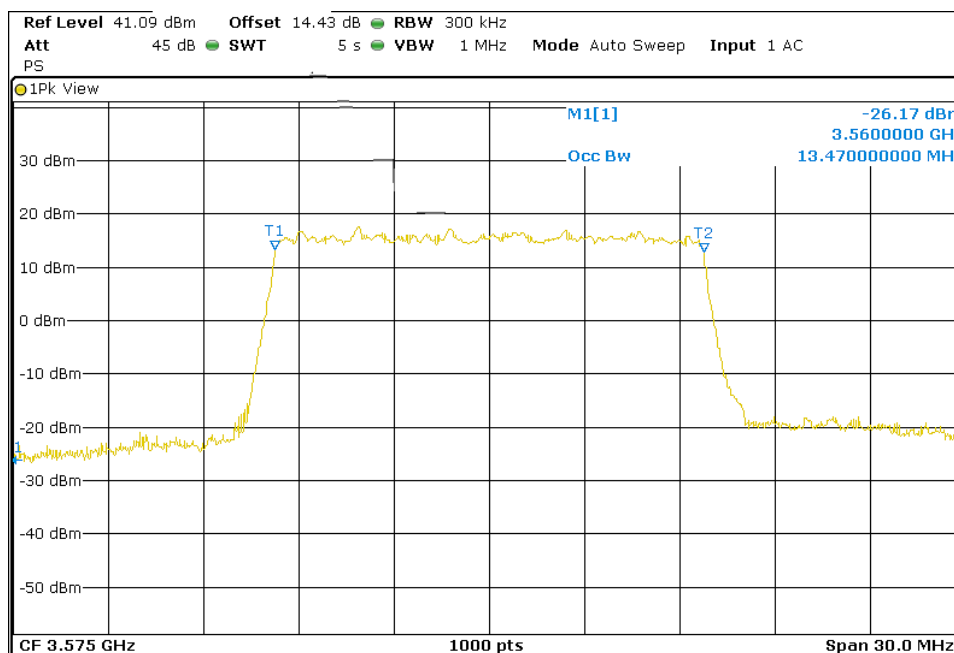


TEST RESULTS (Cont.):

Middle Channel (3575 MHz) QPSK

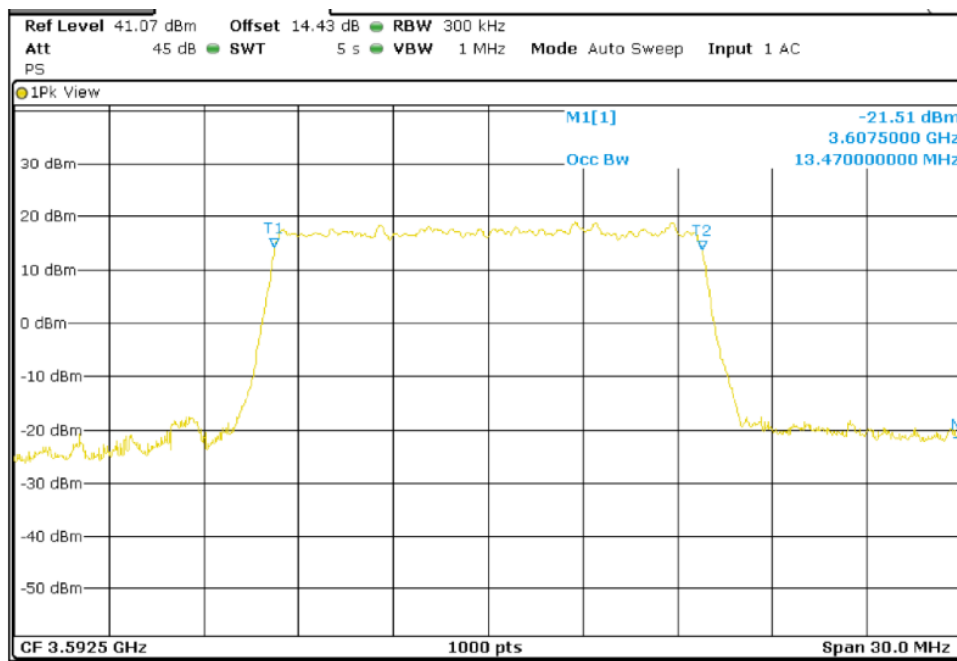


Middle Channel (3575 MHz) 16QAM

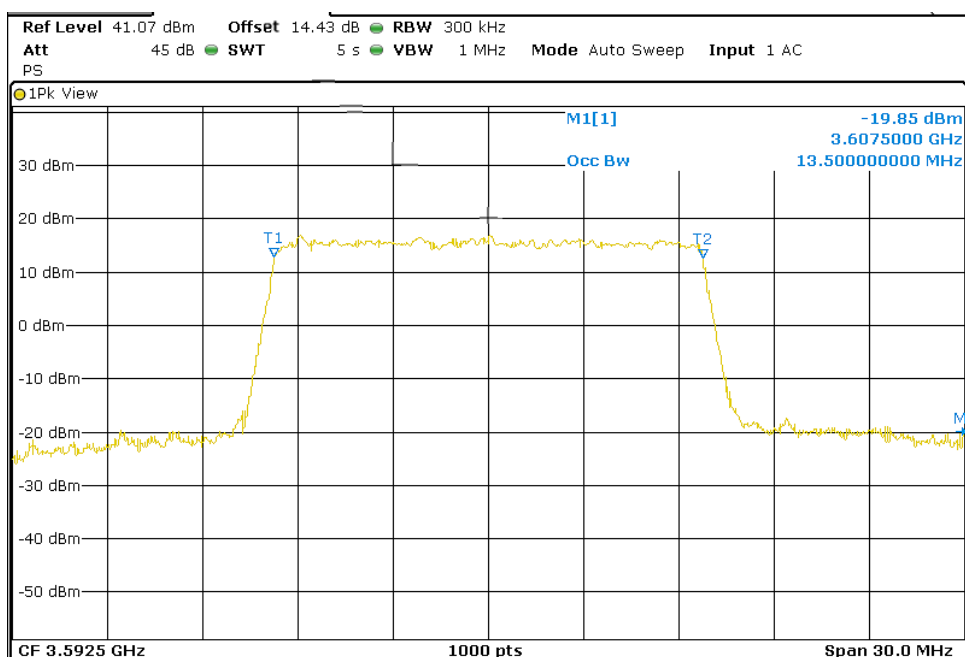


TEST RESULTS (Cont.):

Highest Channel (3592.5 MHz) QPSK



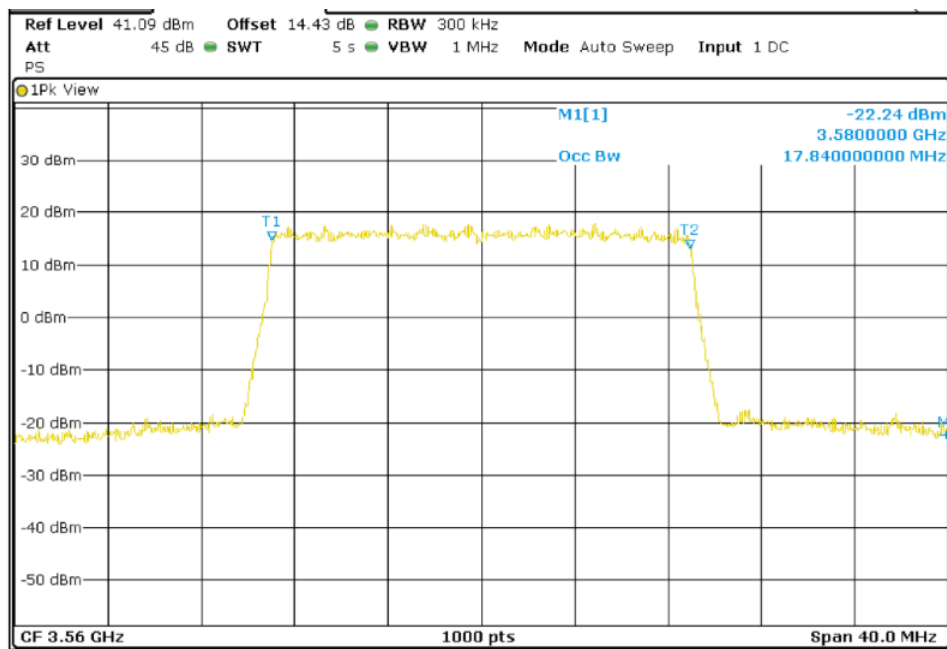
Highest Channel (3592.5 MHz) 16QAM



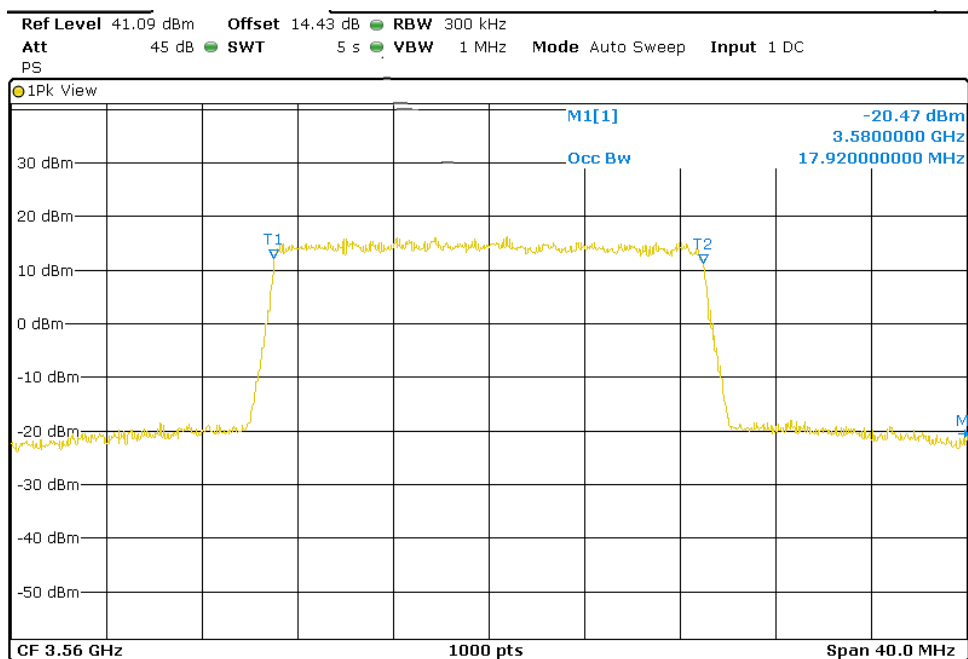
TEST RESULTS (Cont.):

20 MHz BW

Lowest Channel (3560 MHz) QPSK

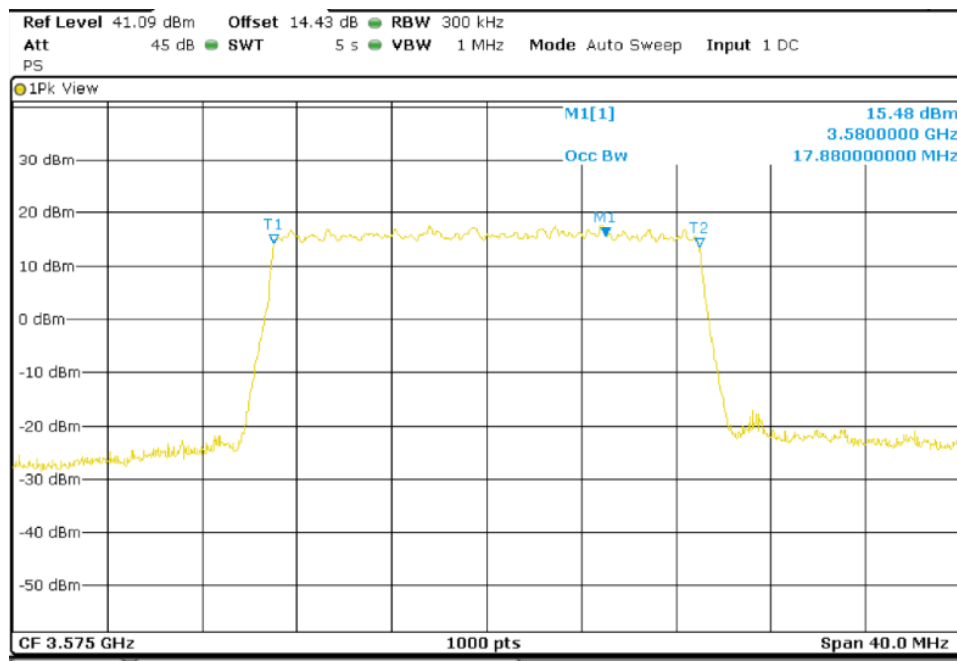


Lowest Channel (3560 MHz) 16QAM



TEST RESULTS (Cont.):

Middle Channel (3575 MHz) QPSK



Middle Channel (3575 MHz) 16QAM

