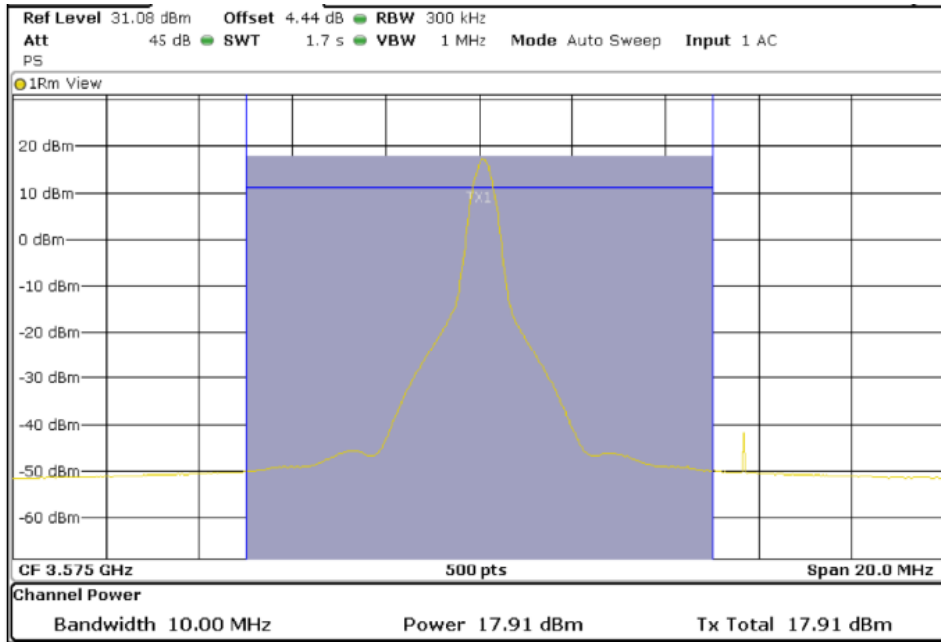
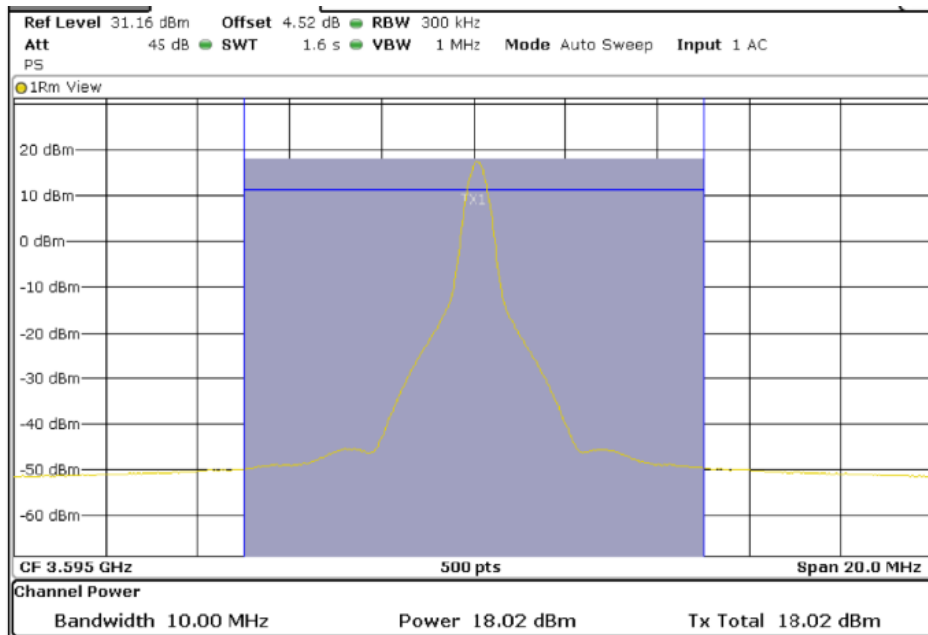


TEST RESULTS (Cont.):

Middle Channel (3575 MHz)



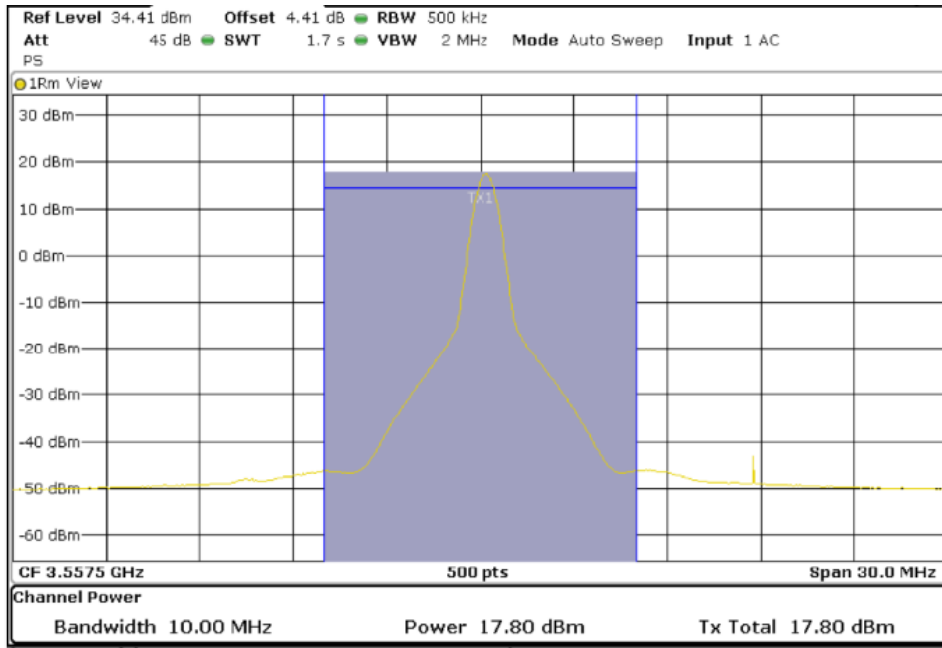
Highest Channel (3595 MHz)



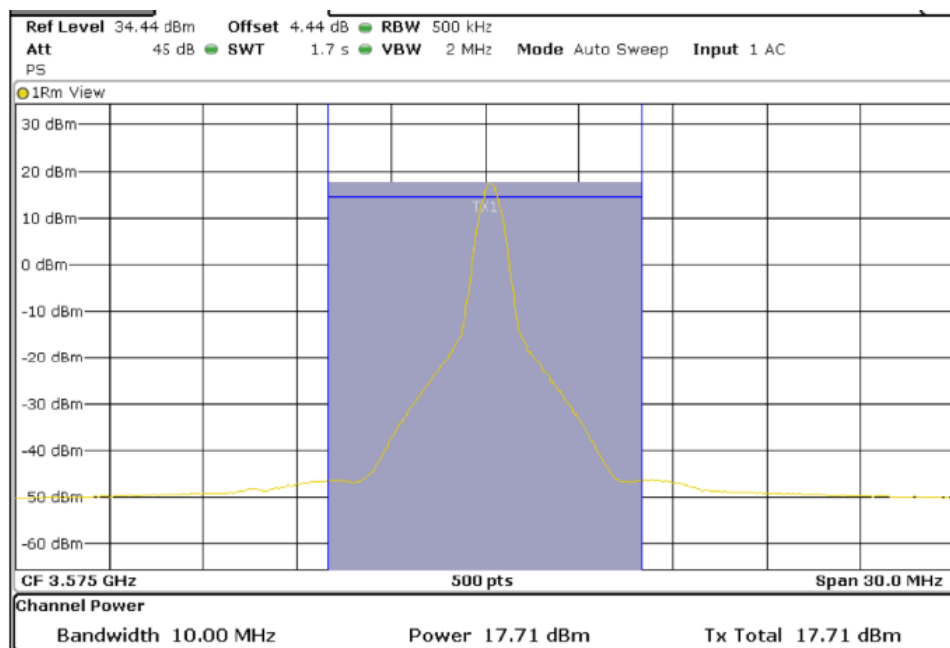
TEST RESULTS (Cont.):

15 MHz BW

Lowest Channel (3557.5 MHz)

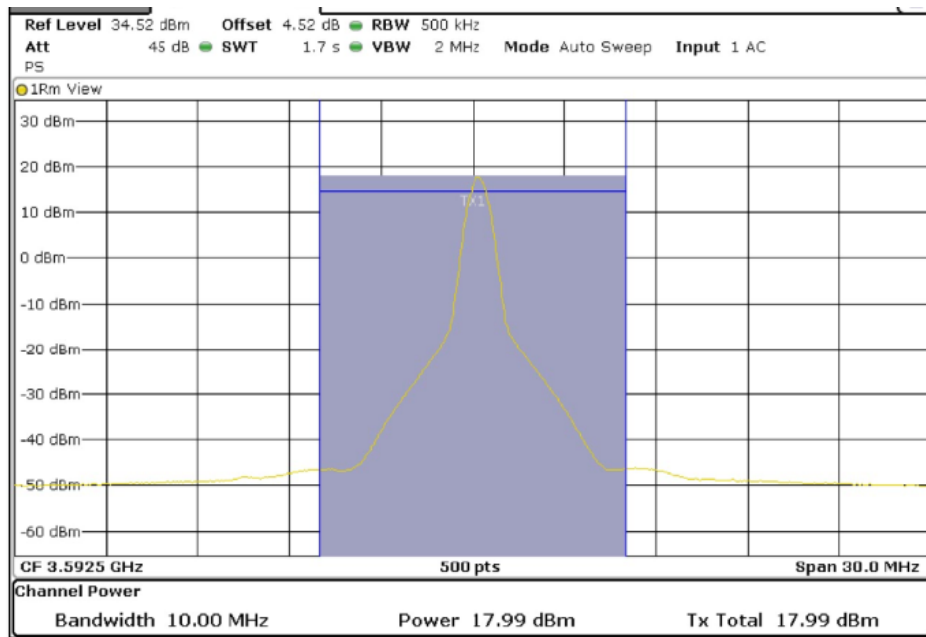


Middle Channel (3575 MHz)



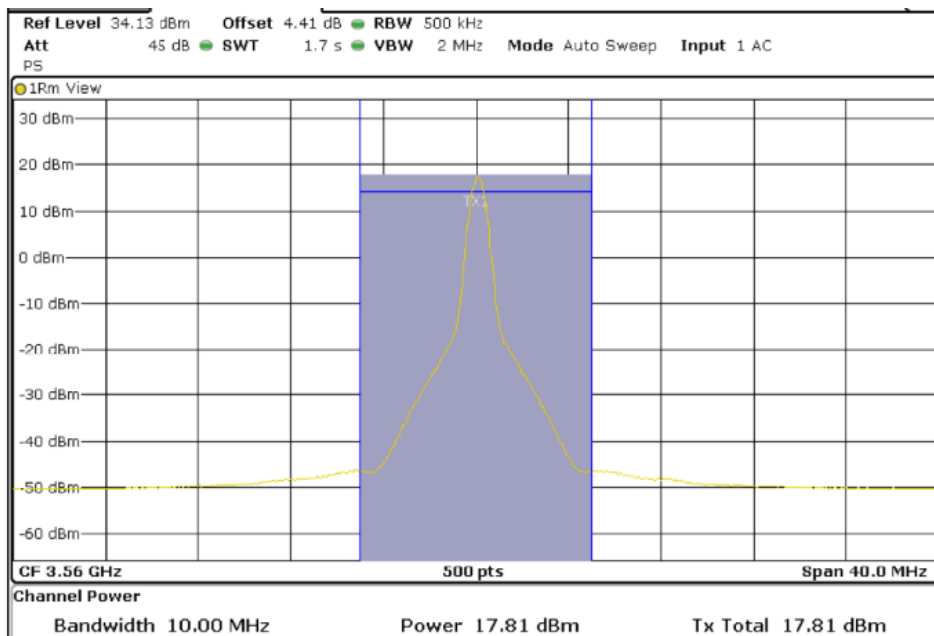
TEST RESULTS (Cont.):

Highest Channel (3592.5 MHz)



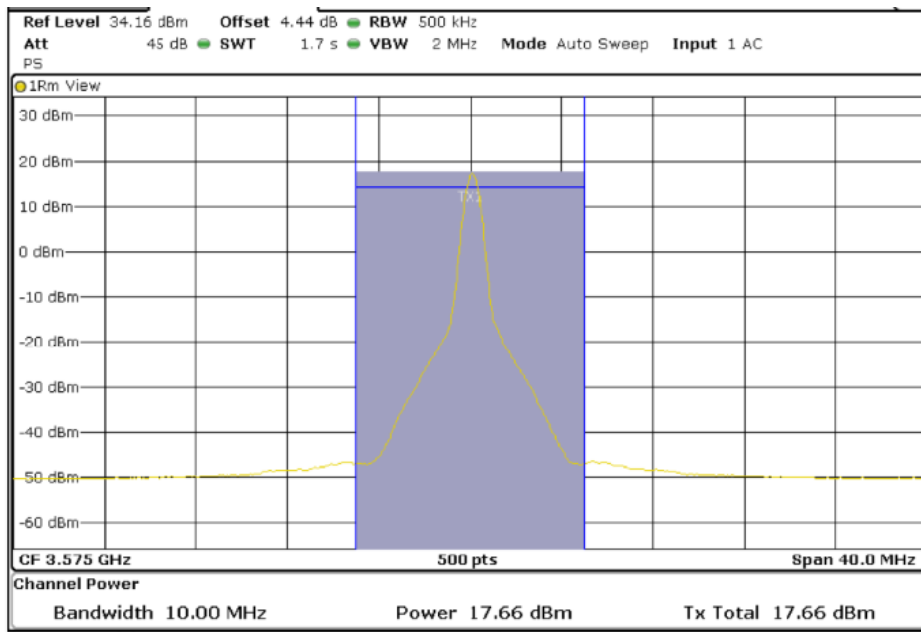
20 MHz BW

Lowest Channel (3560 MHz)

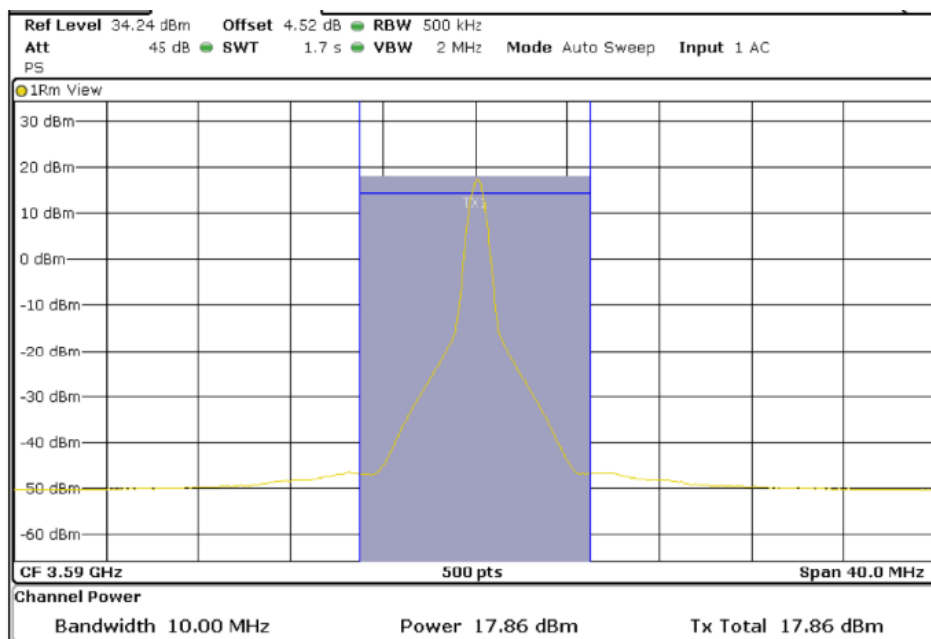


TEST RESULTS (Cont.):

Middle Channel (3575 MHz)



Highest Channel (3590 MHz)



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03 (Band 43)
TEST RESULTS:	PASS

5 MHz BW

QPSK

	Lowest frequency 3602.5 MHz	Middle frequency 3650 MHz	Highest frequency 3697.5 MHz
Measured Power (dBm/10 MHz)	17.84	17.96	18.02
Maximum declared Antenna gain (dBi)	4.00	4.00	4.00
Maximum EIRP (dBm/10 MHz)	21.84	21.96	22.02
Measurement uncertainty (dB)	<± 1.79		

16QAM

	Lowest frequency 3602.5 MHz	Middle frequency 3650 MHz	Highest frequency 3697.5 MHz
Measured Power (dBm/10 MHz)	17.01	17.15	17.38
Maximum declared Antenna gain (dBi)	4.00	4.00	4.00
Maximum EIRP (dBm/10 MHz)	21.01	21.15	21.38
Measurement uncertainty (dB)	<± 1.79		

10 MHz BW

QPSK

	Lowest frequency 3605 MHz	Middle frequency 3650 MHz	Highest frequency 3695 MHz
Measured Power (dBm/10 MHz)	17.92	18.06	18.30
Maximum declared Antenna gain (dBi)	4.00	4.00	4.00
Maximum EIRP (dBm/10 MHz)	21.92	22.06	22.30
Measurement uncertainty (dB)	<± 1.79		

TEST RESULTS (Cont.):

16QAM

	Lowest frequency 3605 MHz	Middle frequency 3650 MHz	Highest frequency 3695 MHz
Measured Power (dBm/10 MHz)	17.31	17.20	17.51
Maximum declared Antenna gain (dBi)	4.00	4.00	4.00
Maximum EIRP (dBm/10 MHz)	21.31	21.20	21.51
Measurement uncertainty (dB)	<± 1.79		

15 MHz BW

QPSK

	Lowest frequency 3607.5 MHz	Middle frequency 3650 MHz	Highest frequency 3692.5 MHz
Measured Power (dBm/10 MHz)	17.67	17.74	17.98
Maximum declared Antenna gain (dBi)	4.00	4.00	4.00
Maximum EIRP (dBm/10 MHz)	21.67	21.74	21.98
Measurement uncertainty (dB)	<± 1.79		

16QAM

	Lowest frequency 3607.5 MHz	Middle frequency 3650 MHz	Highest frequency 3692.5 MHz
Measured Power (dBm/10 MHz)	17.10	17.05	17.25
Maximum declared Antenna gain (dBi)	4.00	4.00	4.00
Maximum EIRP (dBm/10 MHz)	21.10	21.05	21.25
Measurement uncertainty (dB)	<± 1.79		

TEST RESULTS (Cont.):

20 MHz BW

QPSK

	Lowest frequency 3610 MHz	Middle frequency 3650 MHz	Highest frequency 3690 MHz
Measured Power (dBm/10 MHz)	17.73	17.70	17.89
Maximum declared Antenna gain (dBi)	4.00	4.00	4.00
Maximum EIRP (dBm/10 MHz)	21.73	21.70	21.89
Measurement uncertainty (dB)	<± 1.79		

16QAM

	Lowest frequency 3610 MHz	Middle frequency 3650 MHz	Highest frequency 3690 MHz
Measured Power (dBm/10 MHz)	17.01	17.03	17.22
Maximum declared Antenna gain (dBi)	4.00	4.00	4.00
Maximum EIRP (dBm/10 MHz)	21.01	21.03	21.22
Measurement uncertainty (dB)	<± 1.79		

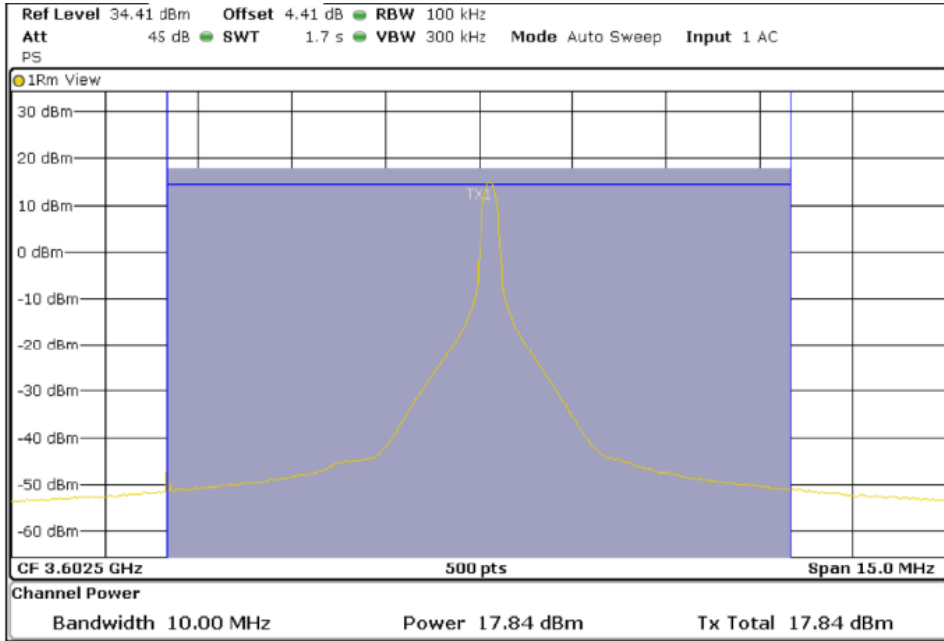
TEST RESULTS (Cont.):	Reference only		
5 MHz BW			
QPSK			
	Lowest frequency 3602.5 MHz	Middle frequency 3650 MHz	Highest frequency 3697.5 MHz
Measured Power (dBm/10 MHz)	17.67	17.98	17.99
Maximum declared Antenna gain (dBi)	4.00	4.00	4.00
Maximum EIRP (dBm/10 MHz)	21.67	21.98	21.99
Measurement uncertainty (dB)	<± 1.79		
16QAM			
	Lowest frequency 3602.5 MHz	Middle frequency 3650 MHz	Highest frequency 3697.5 MHz
Measured Power (dBm/10 MHz)	16.85	17.31	17.28
Maximum declared Antenna gain (dBi)	4.00	4.00	4.00
Maximum EIRP (dBm/10 MHz)	20.85	21.31	21.28
Measurement uncertainty (dB)	<± 1.79		
15 MHz BW			
QPSK			
	Lowest frequency 3607.5 MHz	Middle frequency 3650 MHz	Highest frequency 3692.5 MHz
Measured Power (dBm/10 MHz)	17.65	17.76	18.01
Maximum declared Antenna gain (dBi)	4.00	4.00	4.00
Maximum EIRP (dBm/10 MHz)	21.65	21.76	22.01
Measurement uncertainty (dB)	<± 1.79		

TEST RESULTS (Cont.):	Reference only		
16QAM			
	Lowest frequency 3607.5 MHz	Middle frequency 3650 MHz	Highest frequency 3692.5 MHz
Measured Power (dBm/10 MHz)	17.07	17.13	17.31
Maximum declared Antenna gain (dBi)	4.00	4.00	4.00
Maximum EIRP (dBm/10 MHz)	21.07	21.13	21.31
Measurement uncertainty (dB)	<± 1.79		
20 MHz BW			
QPSK			
	Lowest frequency 3610 MHz	Middle frequency 3650 MHz	Highest frequency 3690 MHz
Measured Power (dBm/10 MHz)	17.74	17.71	17.88
Maximum declared Antenna gain (dBi)	4.00	4.00	4.00
Maximum EIRP (dBm/10 MHz)	21.74	21.71	21.88
Measurement uncertainty (dB)	<± 1.79		
16QAM			
	Lowest frequency 3610 MHz	Middle frequency 3650 MHz	Highest frequency 3690 MHz
Measured Power (dBm/10 MHz)	17.01	17.01	17.18
Maximum declared Antenna gain (dBi)	4.00	4.00	4.00
Maximum EIRP (dBm/10 MHz)	21.01	21.01	21.18
Measurement uncertainty (dB)	<± 1.79		
Verdict: PASS (See next plots for worst case (QPSK) modulation)			

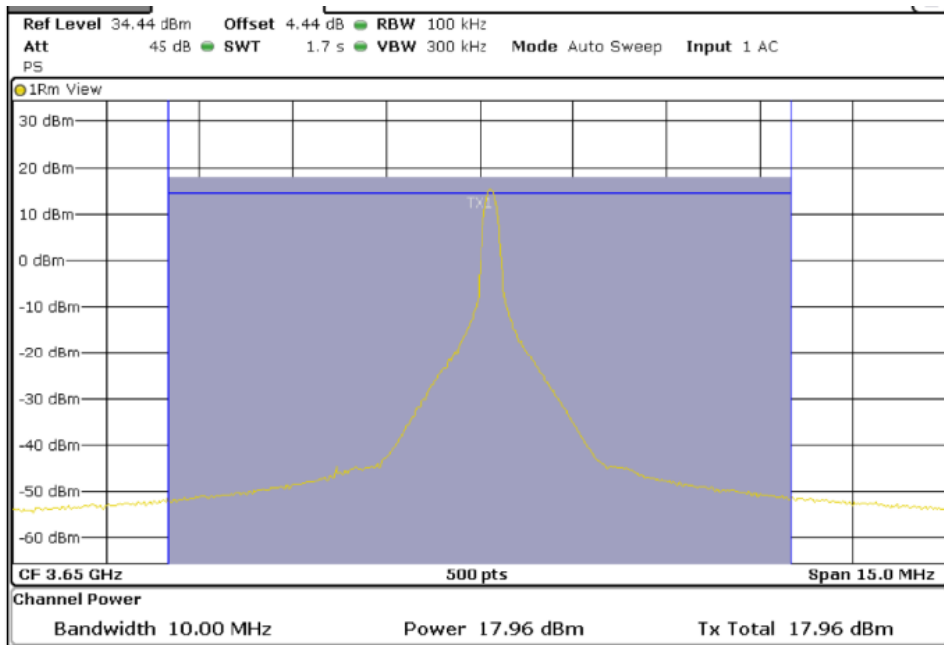
TEST RESULTS (Cont.):

5 MHz BW

Lowest Channel (3602.5 MHz)

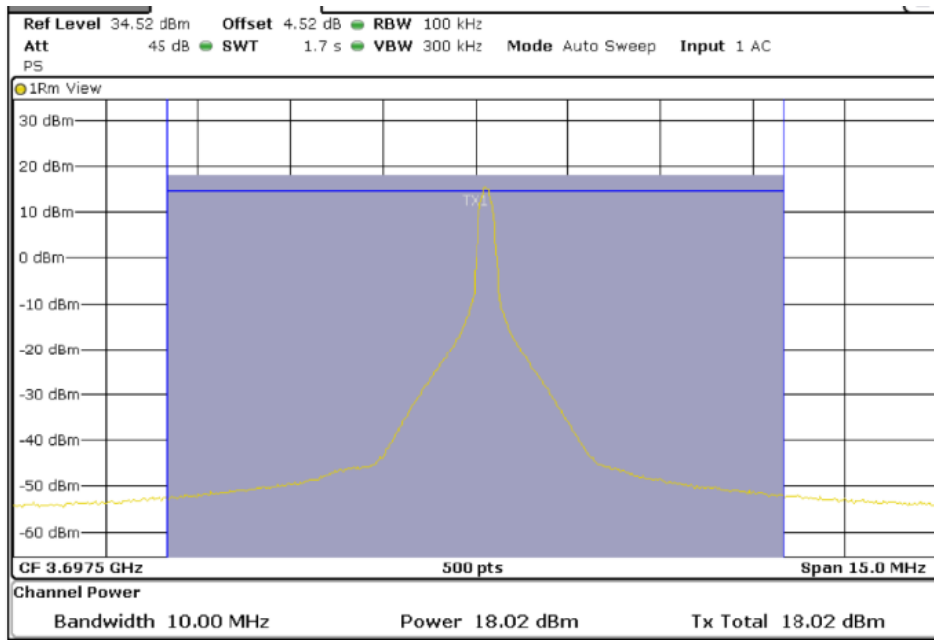


Middle Channel (3650 MHz)



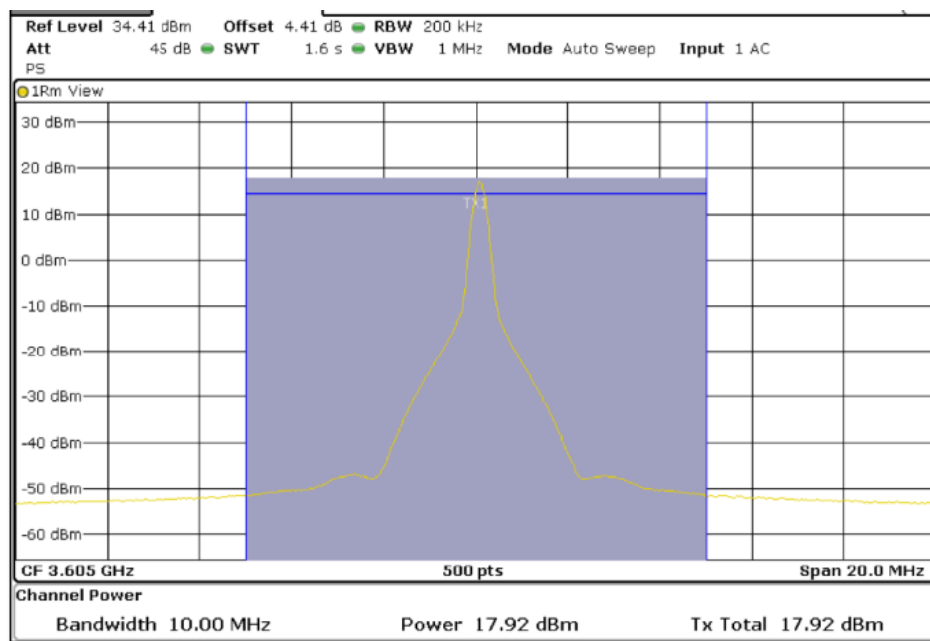
TEST RESULTS (Cont.):

Highest Channel (3697.5 MHz)



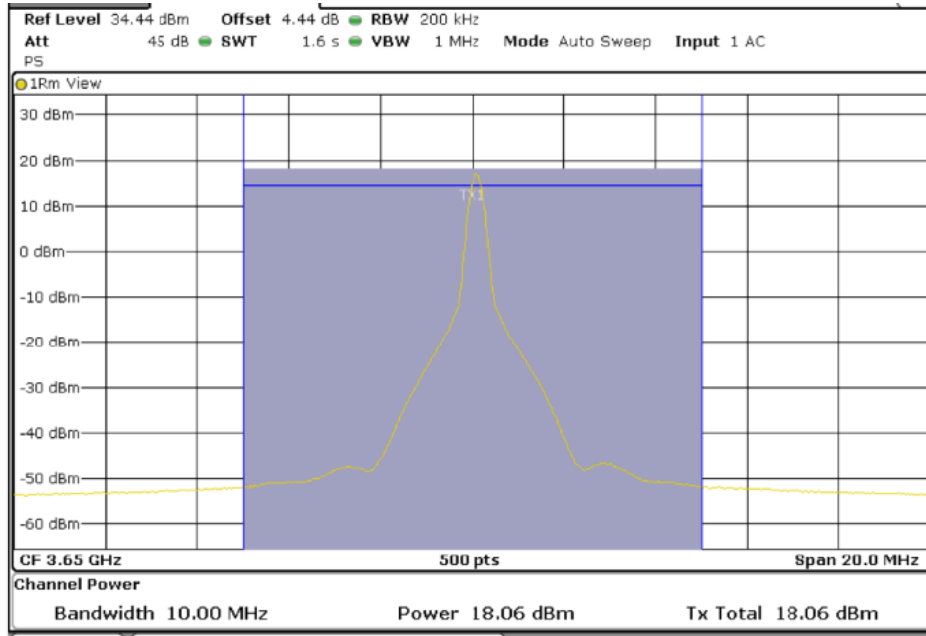
10 MHz BW

Lowest Channel (3605 MHz)

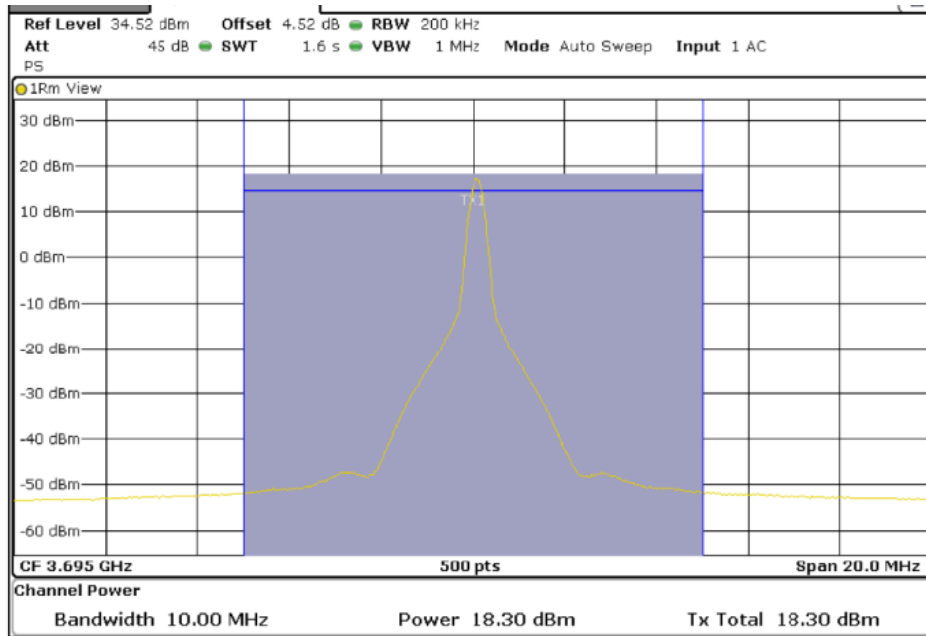


TEST RESULTS (Cont.):

Middle Channel (3650 MHz)



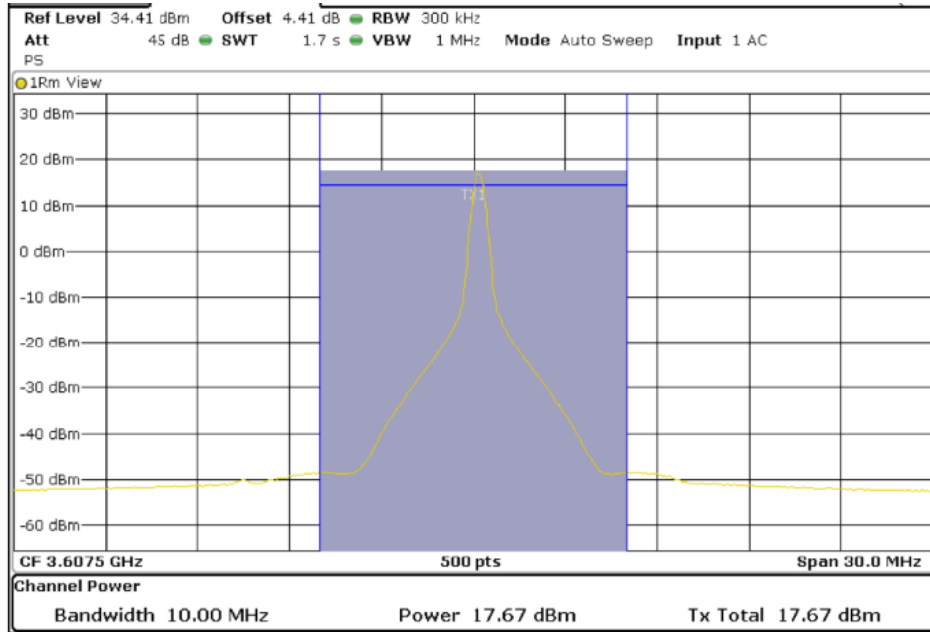
Highest Channel (3695 MHz)



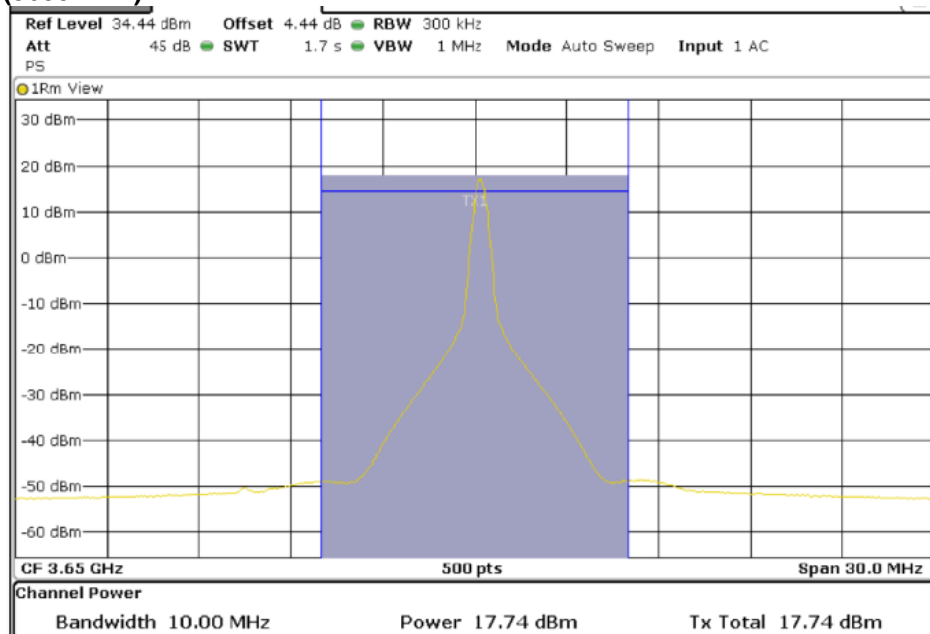
TEST RESULTS (Cont.):

15 MHz BW

Lowest Channel (3607.5 MHz)

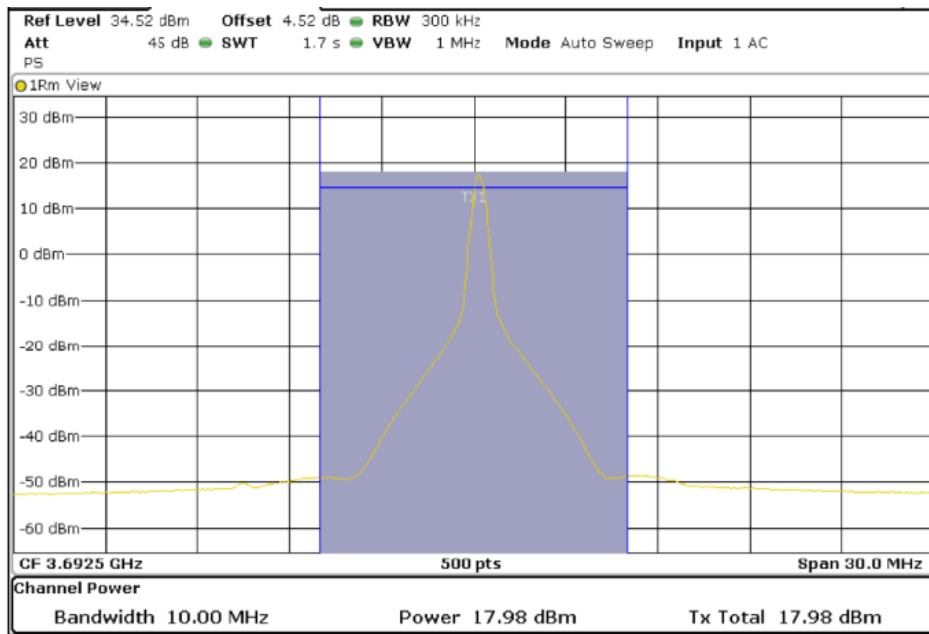


Middle Channel (3650 MHz)



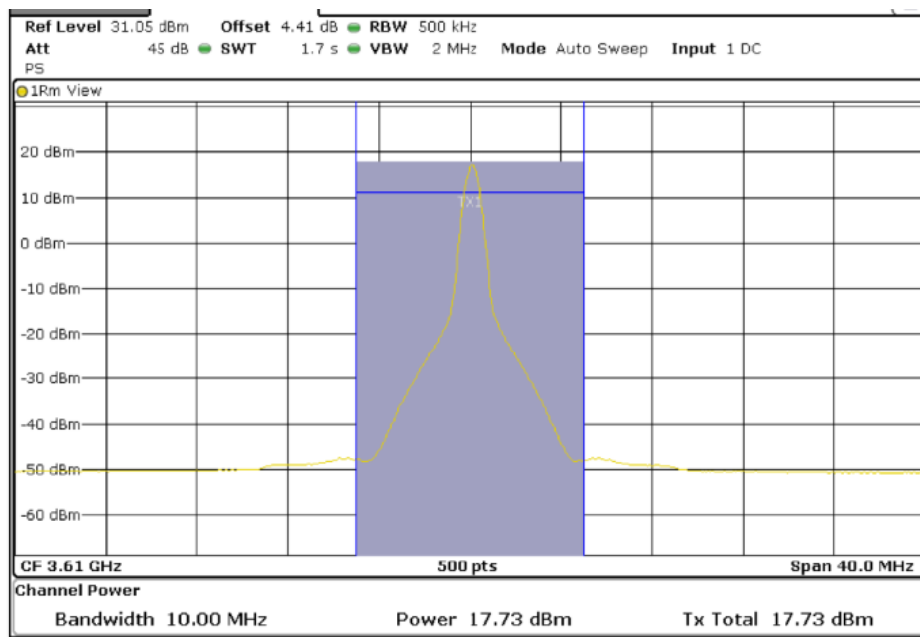
TEST RESULTS (Cont.):

Highest Channel (3692.5 MHz)



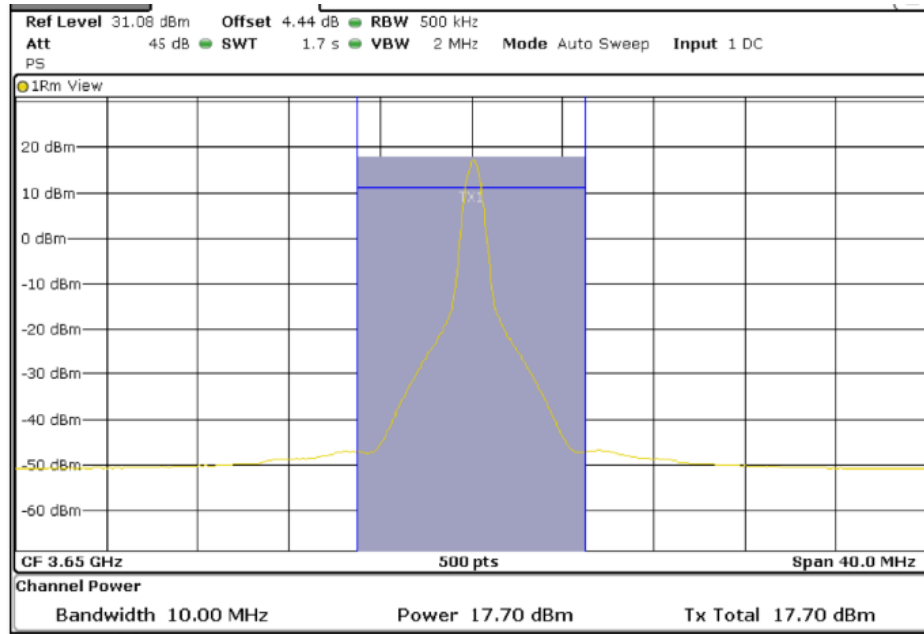
20 MHz BW

Lowest Channel (3610 MHz)

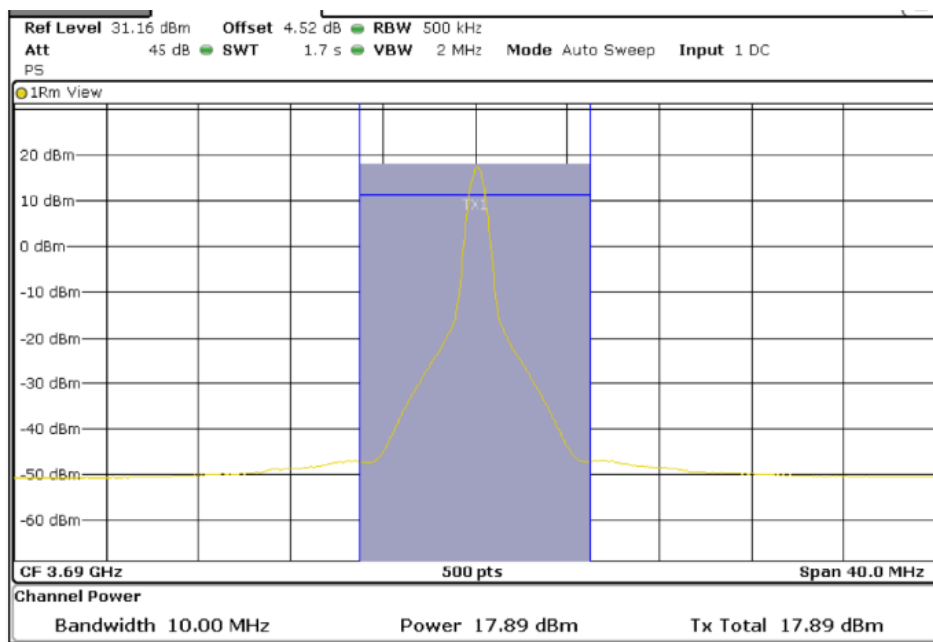


TEST RESULTS (Cont.):

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

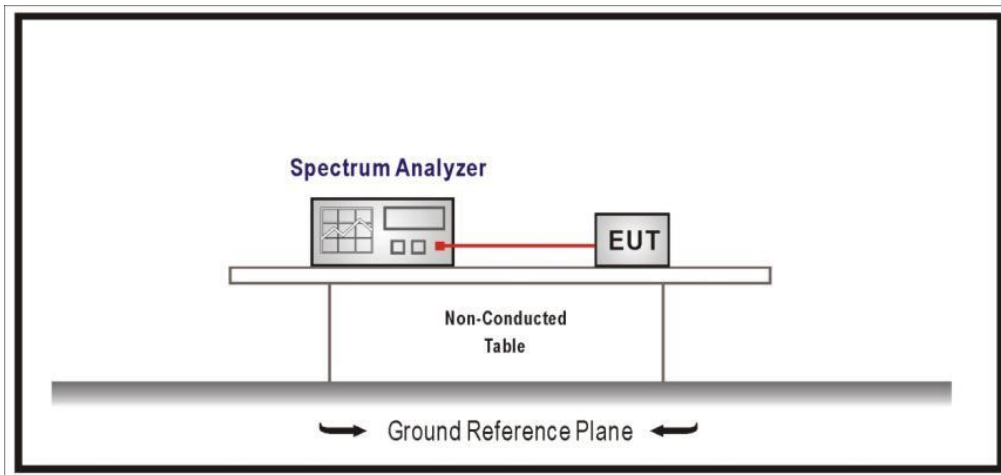
LIMITS

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

5 MHz BW

QPSK

	Lowest frequency	Middle frequency	Highest frequency
	3552.5 MHz	3625 MHz	3697.5 MHz
99% OBW (MHz)	4.50	4.52	4.56
-26 dB Bandwidth (MHz)	5.38	5.06	5.40
Measurement uncertainty (%)	<±1.87		

16QAM

	Lowest frequency	Middle frequency	Highest frequency
	3552.5 MHz	3625 MHz	3697.5 MHz
99% OBW (MHz)	4.50	4.52	4.50
-26 dB Bandwidth (MHz)	5.32	5.18	5.00
Measurement uncertainty (%)	<±1.87		

10 MHz BW

QPSK

	Lowest frequency	Middle frequency	Highest frequency
	3555 MHz	3625 MHz	3695 MHz
99% OBW (MHz)	8.96	9.00	8.98
-26 dB Bandwidth (MHz)	9.96	9.87	9.90
Measurement uncertainty (%)	<±1.87		

16QAM

	Lowest frequency	Middle frequency	Highest frequency
	3555 MHz	3625 MHz	3695 MHz
99% OBW (MHz)	8.94	8.96	8.98
-26 dB Bandwidth (MHz)	9.93	9.87	9.96
Measurement uncertainty (%)	<±1.87		

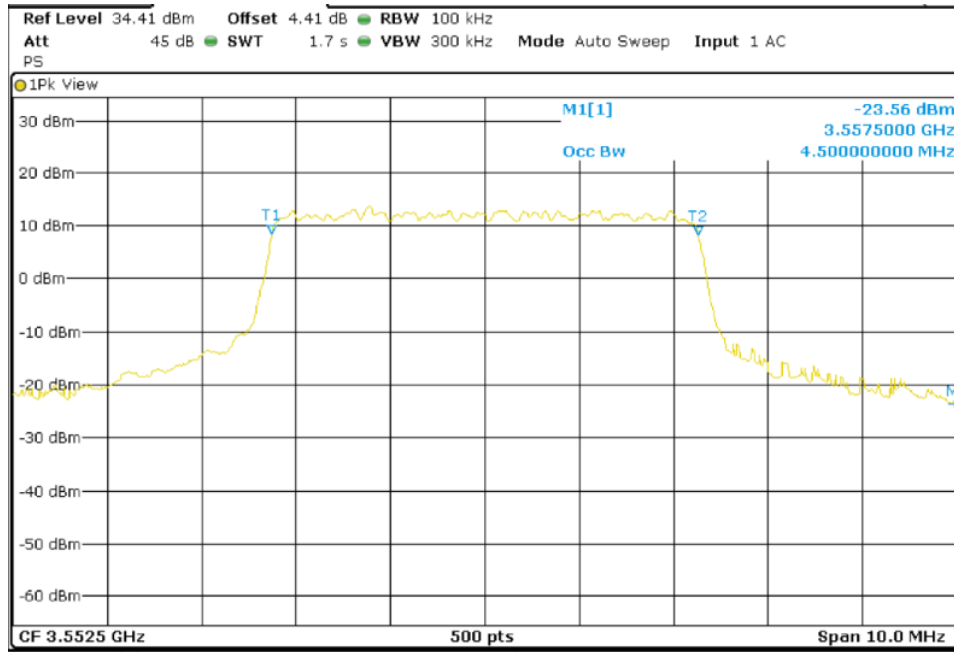
TEST RESULTS (Cont.):			
15 MHz BW			
QPSK			
	Lowest frequency 3557.5 MHz	Middle frequency 3625 MHz	Highest frequency 3692.5 MHz
99% OBW (MHz)	13.62	13.62	13.56
-26 dB Bandwidth (MHz)	15.09	15.18	15.06
Measurement uncertainty (%)	<±1.87		
16QAM			
	Lowest frequency 3557.5 MHz	Middle frequency 3625 MHz	Highest frequency 3692.5 MHz
99% OBW (MHz)	13.56	13.62	13.62
-26 dB Bandwidth (MHz)	15.09	15.24	15.18
Measurement uncertainty (%)	<±1.87		
20 MHz BW			
QPSK			
	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
99% OBW (MHz)	18.00	18.00	18.08
-26 dB Bandwidth (MHz)	19.88	19.68	19.76
Measurement uncertainty (%)	<±1.87		
16QAM			
	Lowest frequency 3560 MHz	Middle frequency 3625 MHz	Highest frequency 3690 MHz
99% OBW (MHz)	18.00	18.00	18.00
-26 dB Bandwidth (MHz)	19.88	19.76	19.68
Measurement uncertainty (%)	<±1.87		
Verdict: PASS (See next plots)			

TEST RESULTS (Cont.):

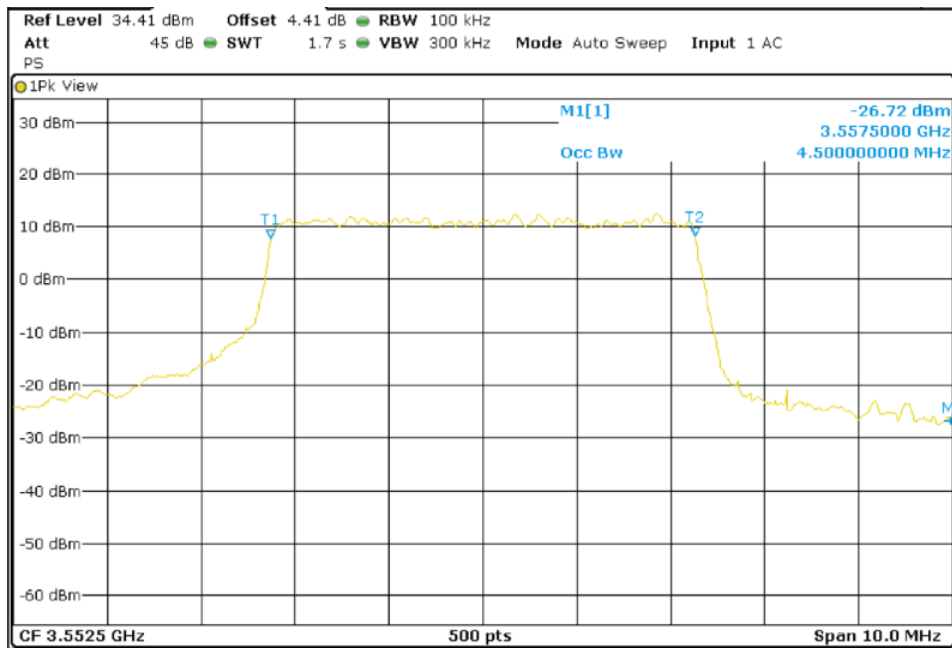
OBW

5 MHz BW

Lowest Channel (3552.5 MHz) QPSK

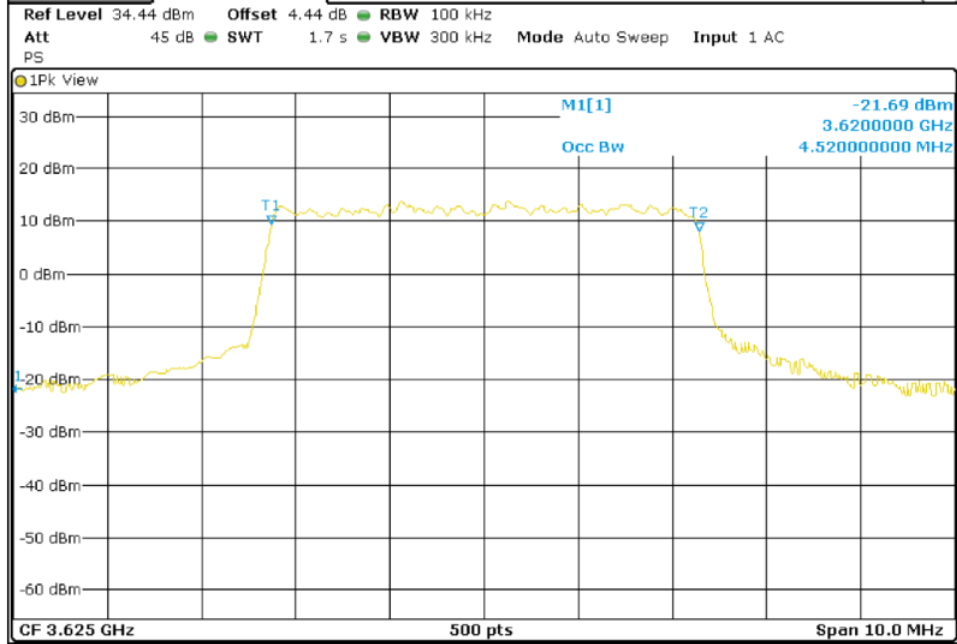


Lowest Channel (3552.5 MHz) 16QAM

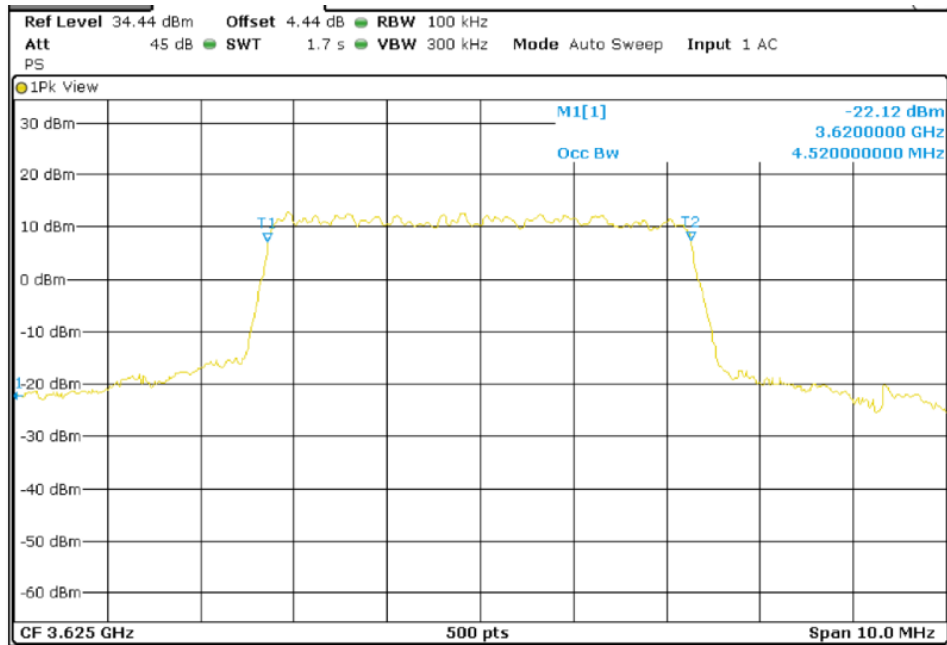


TEST RESULTS (Cont.):

Middle Channel (3625 MHz) QPSK

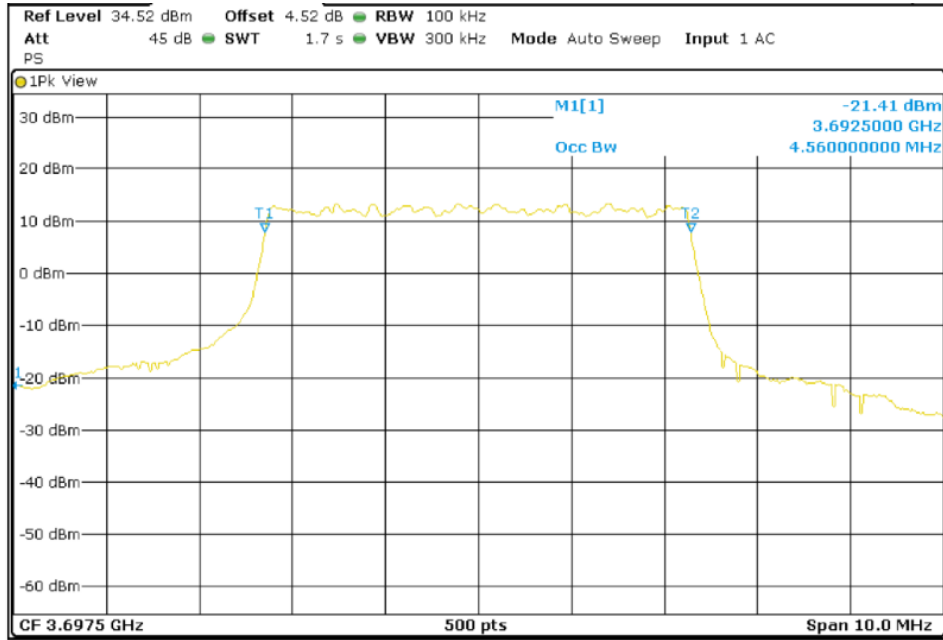


Middle Channel (3625 MHz) 16QAM

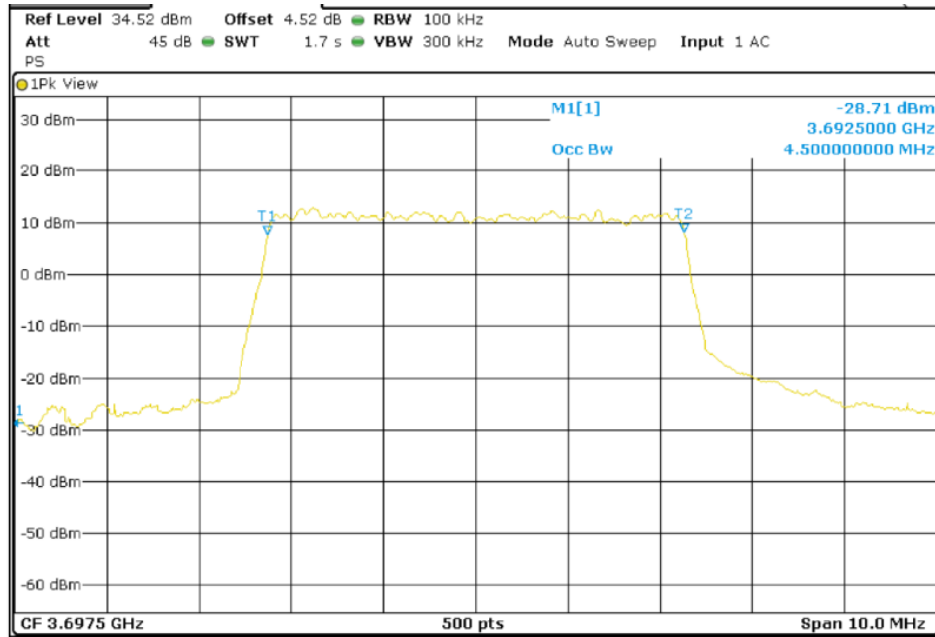


TEST RESULTS (Cont.):

Highest Channel (3697.5 MHz) QPSK



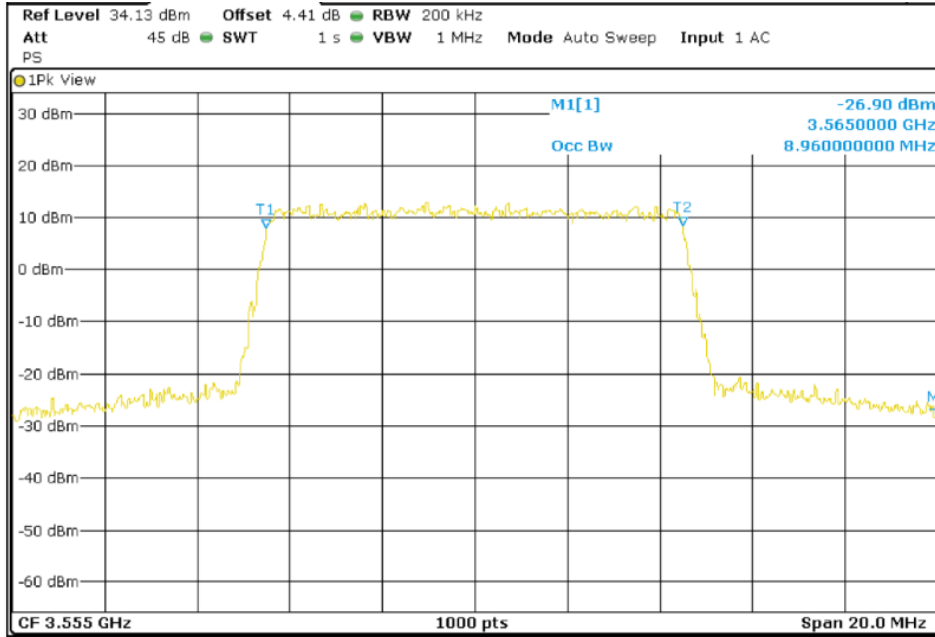
Highest Channel (3697.5 MHz) 16QAM



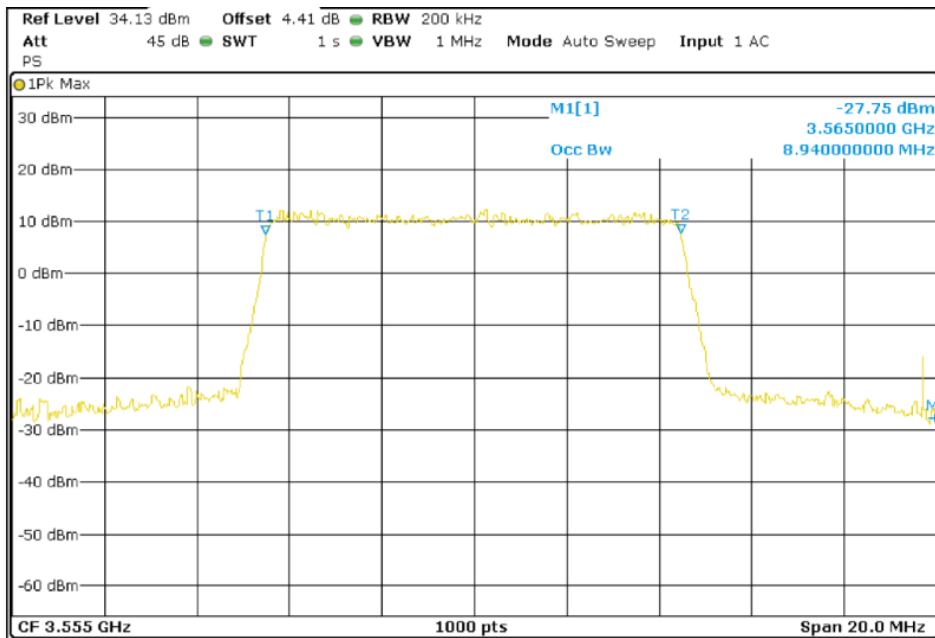
TEST RESULTS (Cont.):

10 MHz BW

Lowest Channel (3555 MHz) QPSK

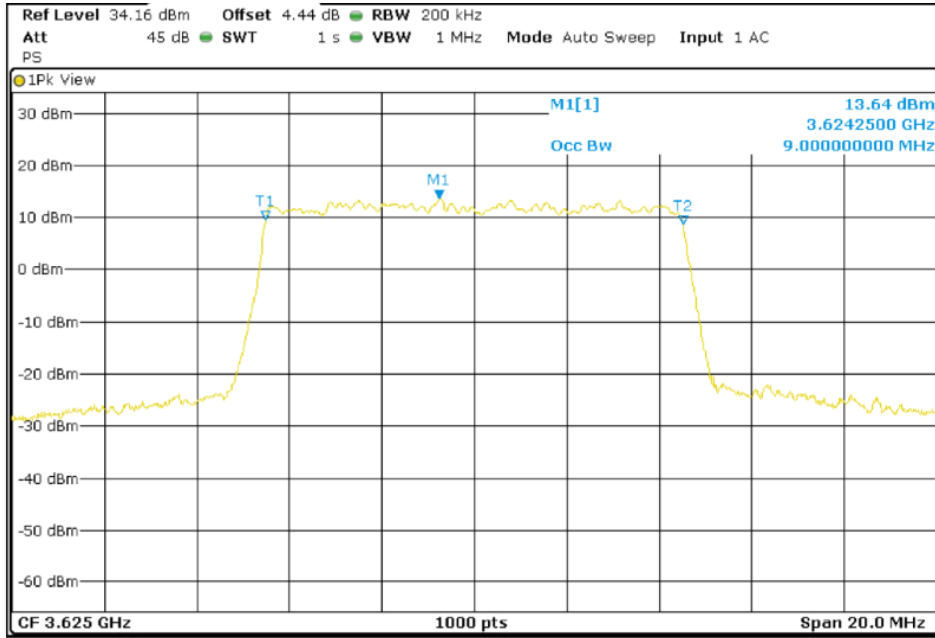


Lowest Channel (3555 MHz) 16QAM

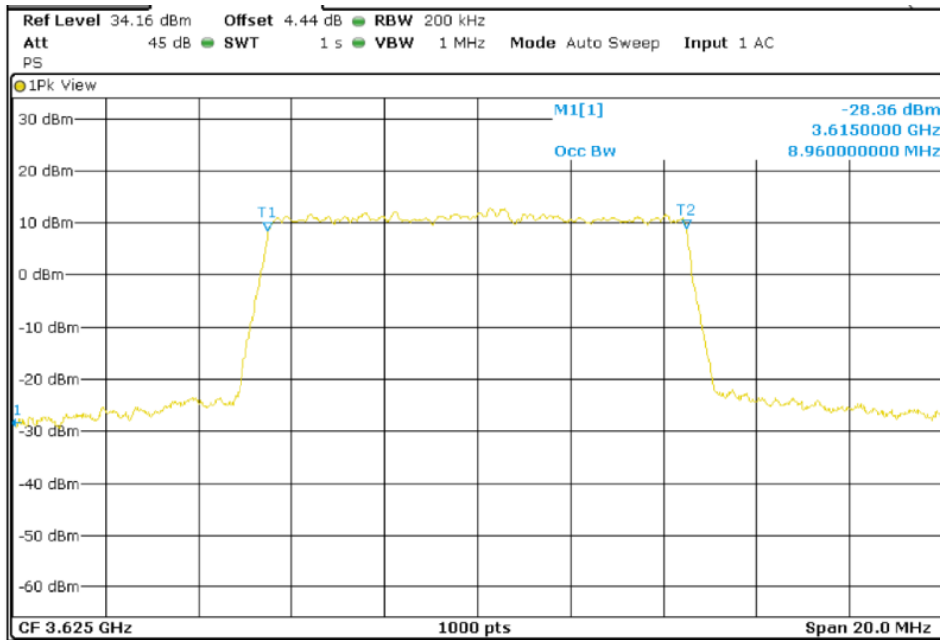


TEST RESULTS (Cont.):

Middle Channel (3625 MHz) QPSK

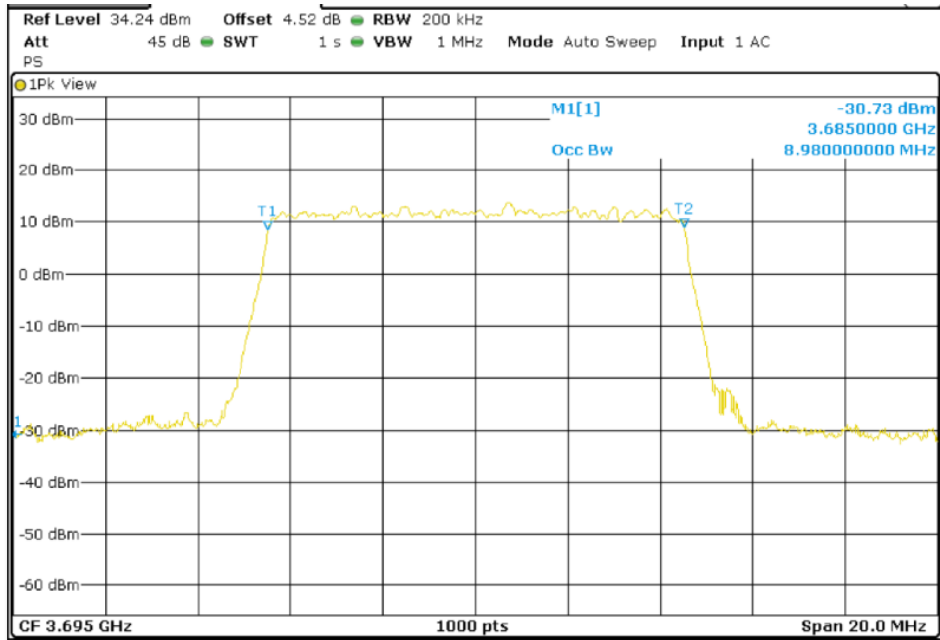


Middle Channel (3625 MHz) 16QAM

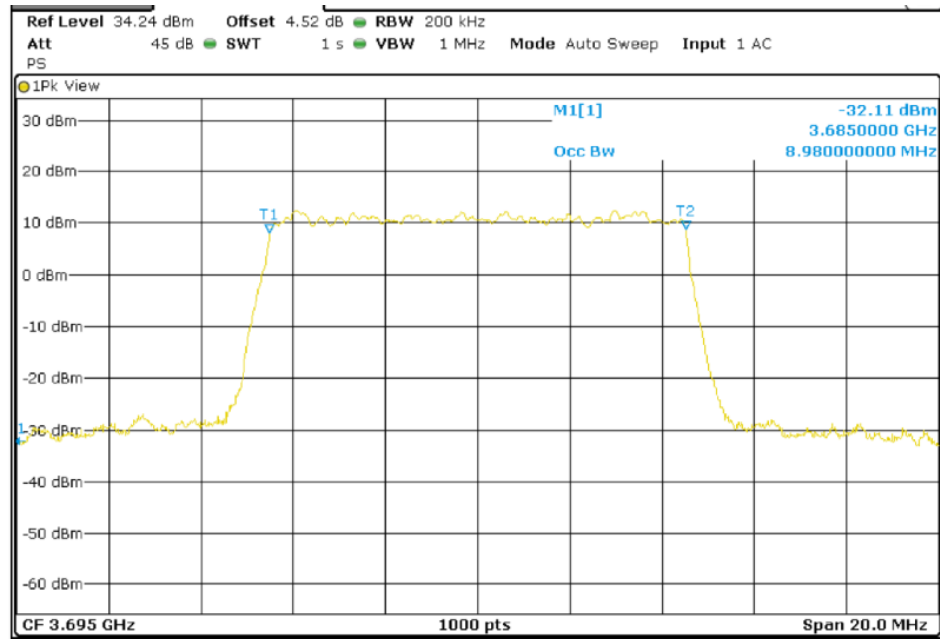


TEST RESULTS (Cont.):

High Channel (3695 MHz) QPSK



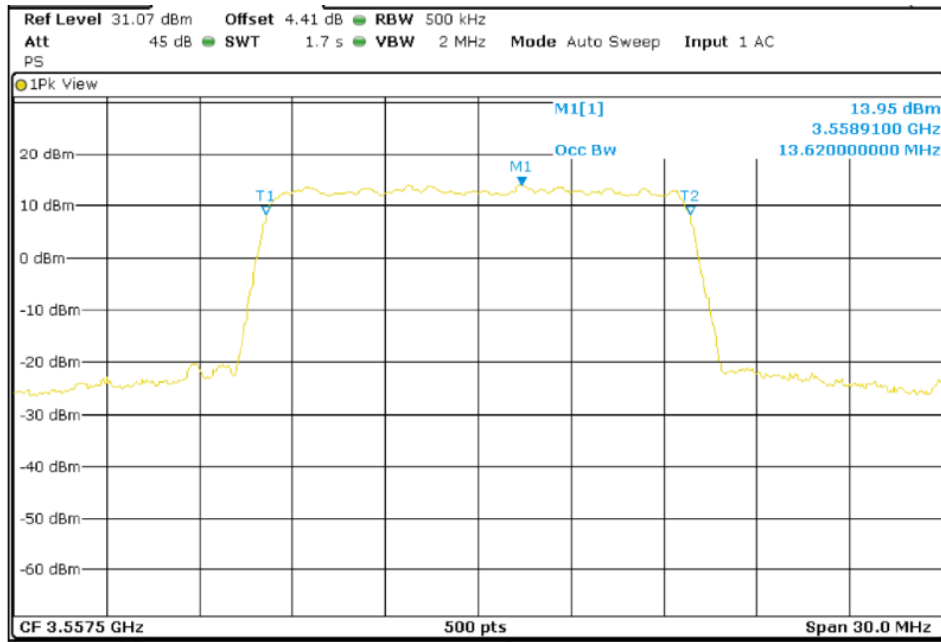
High Channel (3695 MHz) 16QAM



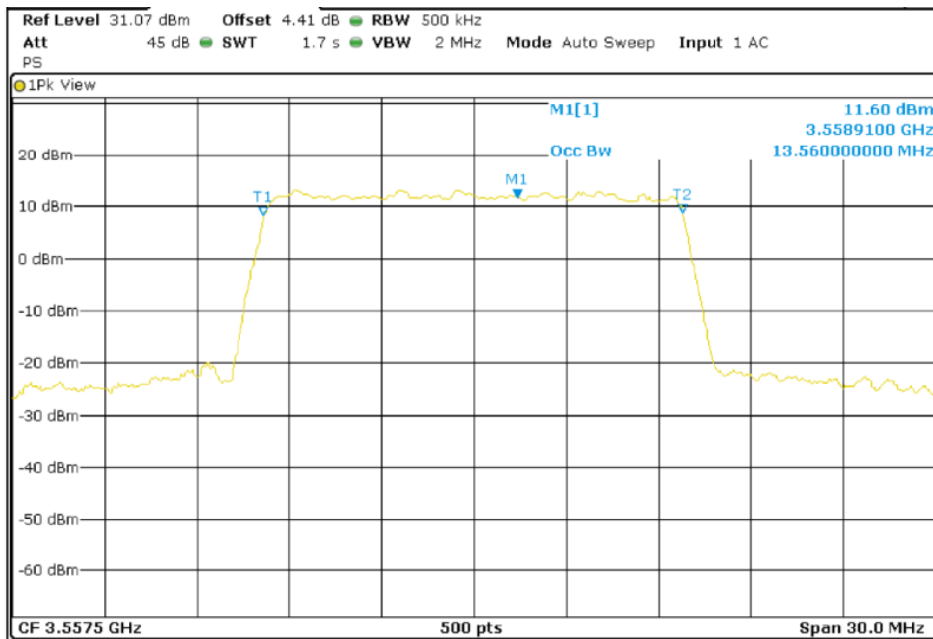
TEST RESULTS (Cont.):

15 MHz BW

Lowest Channel (3557.5 MHz) QPSK

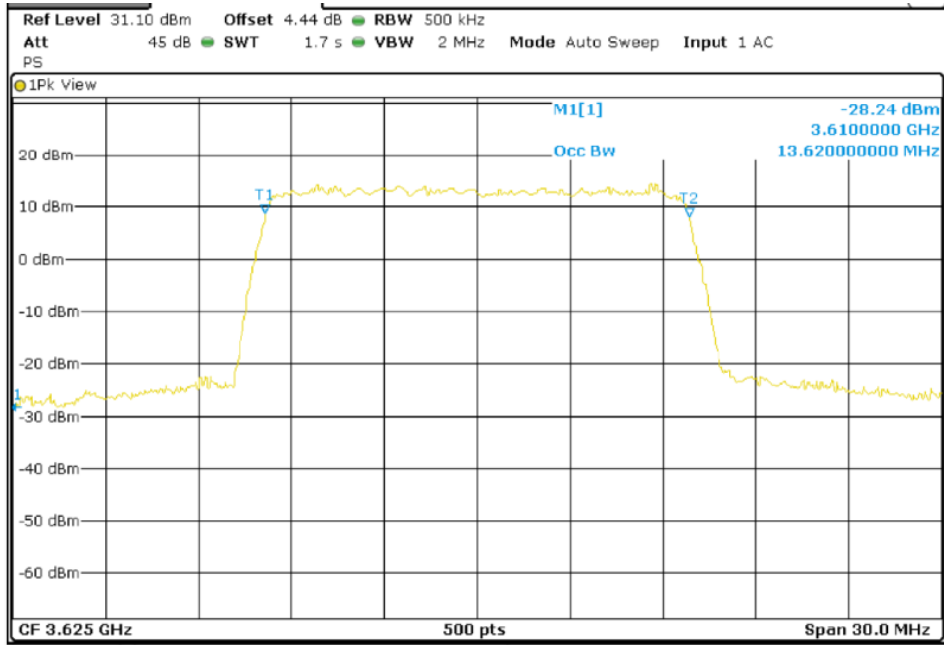


Lowest Channel (3557.5 MHz) 16QAM

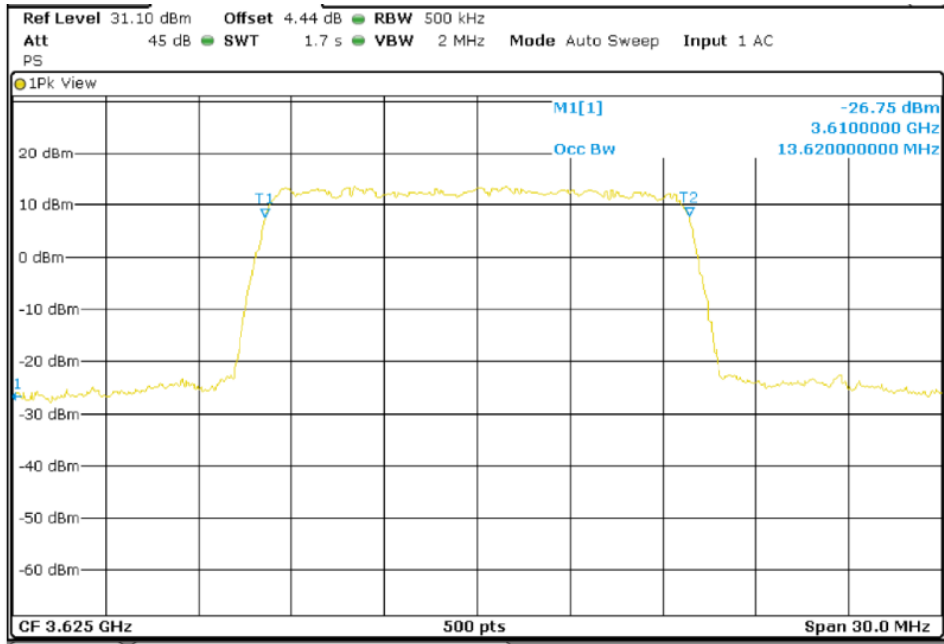


TEST RESULTS (Cont.):

Middle Channel (3625 MHz) QPSK

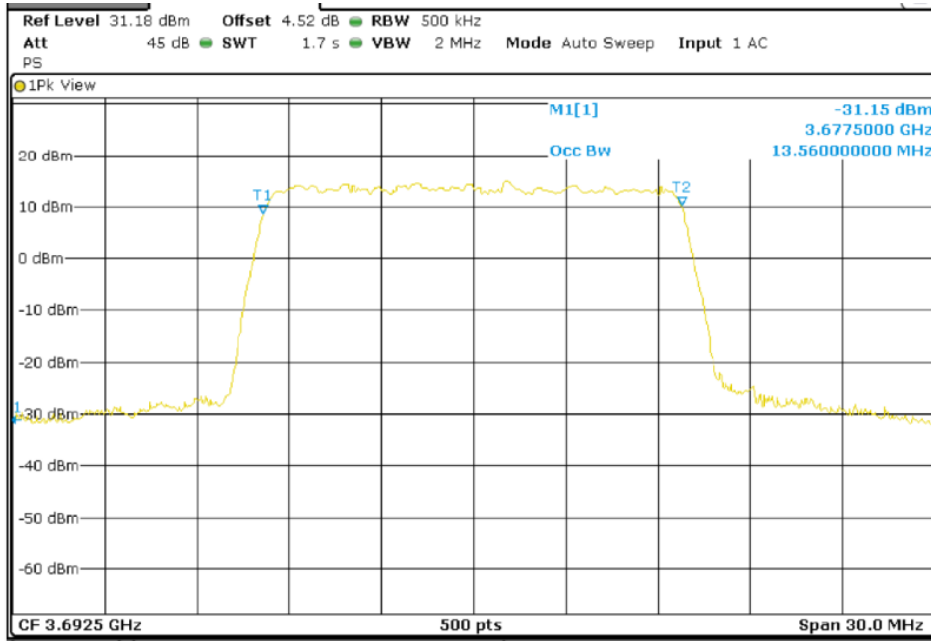


Middle Channel (3625 MHz) 16QAM

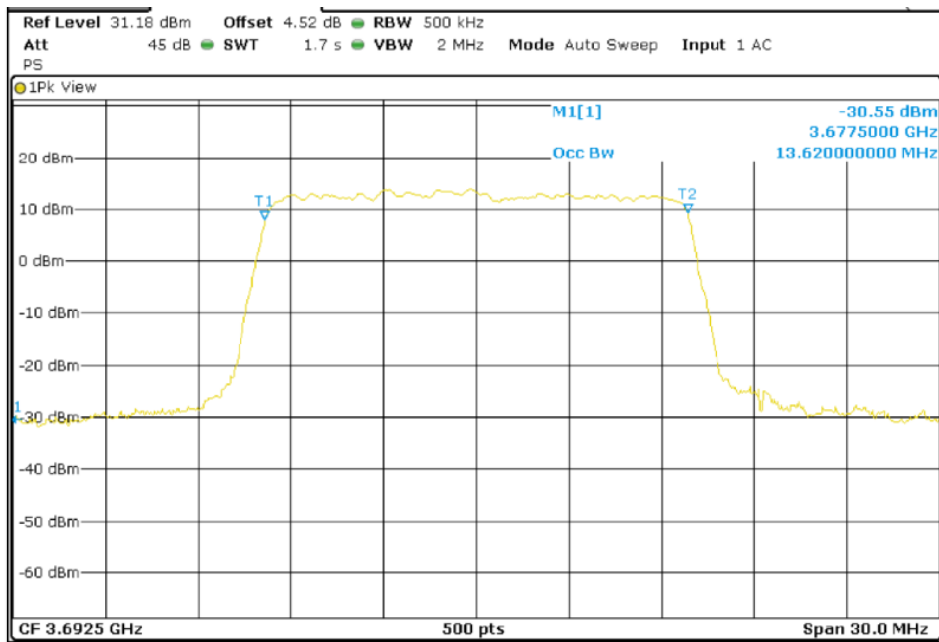


TEST RESULTS (Cont.):

Highest Channel (3692.5 MHz) QPSK



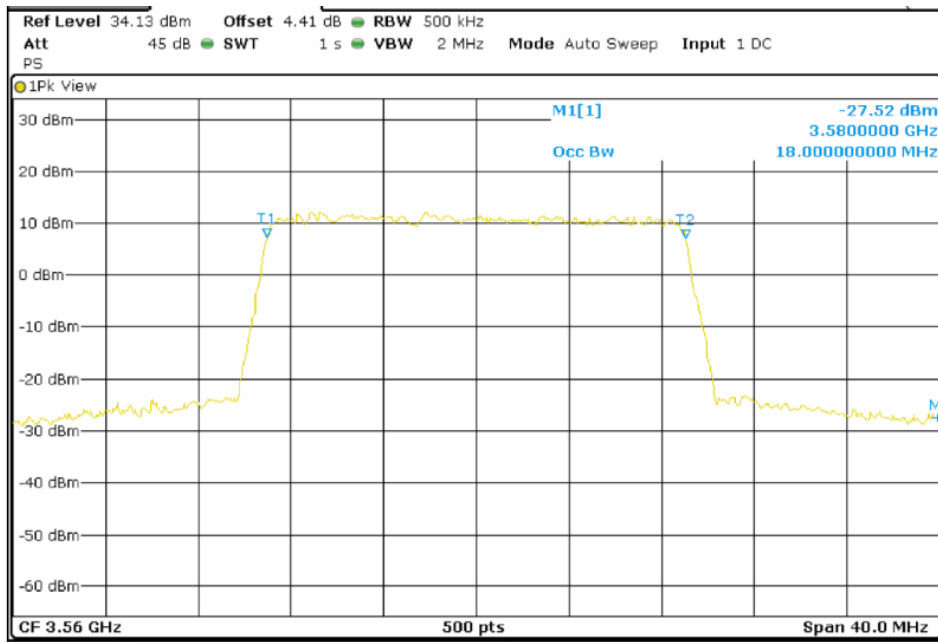
Highest Channel (3692.5 MHz) 16QAM



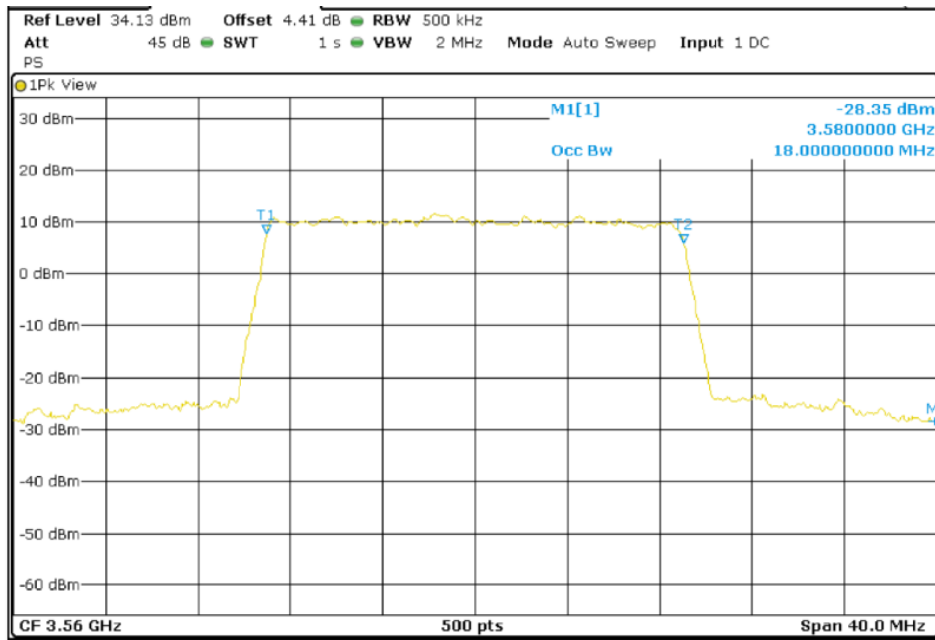
TEST RESULTS (Cont.):

20 MHz BW

Lowest Channel (3560 MHz) QPSK

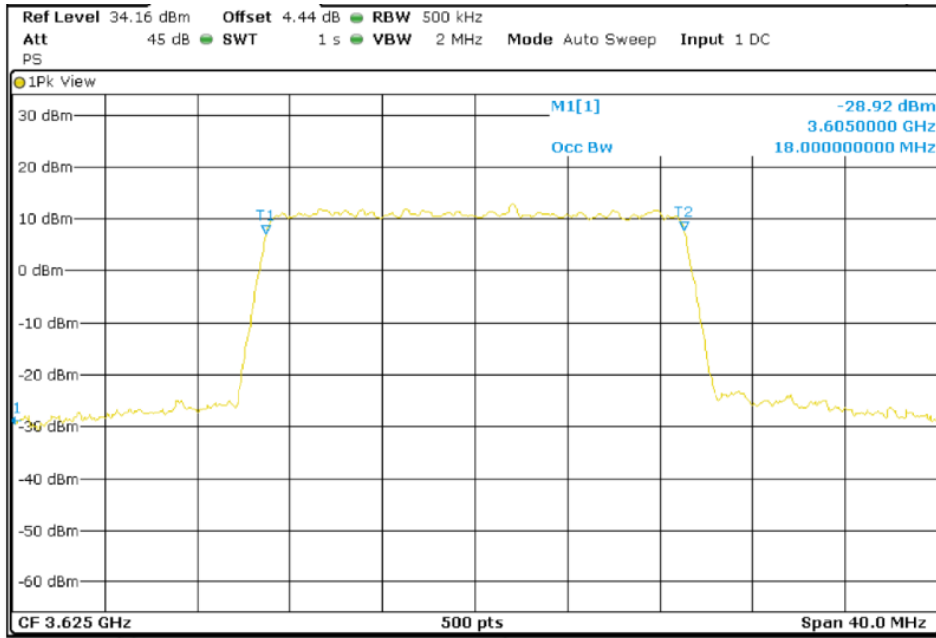


Lowest Channel (3560 MHz) 16QAM

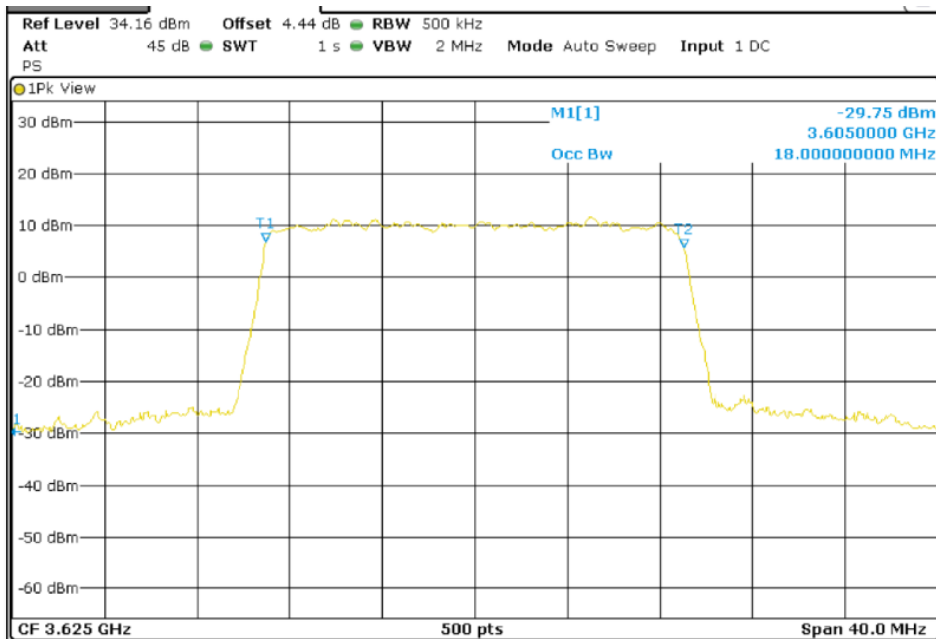


TEST RESULTS (Cont.):

Middle Channel (3625 MHz) QPSK

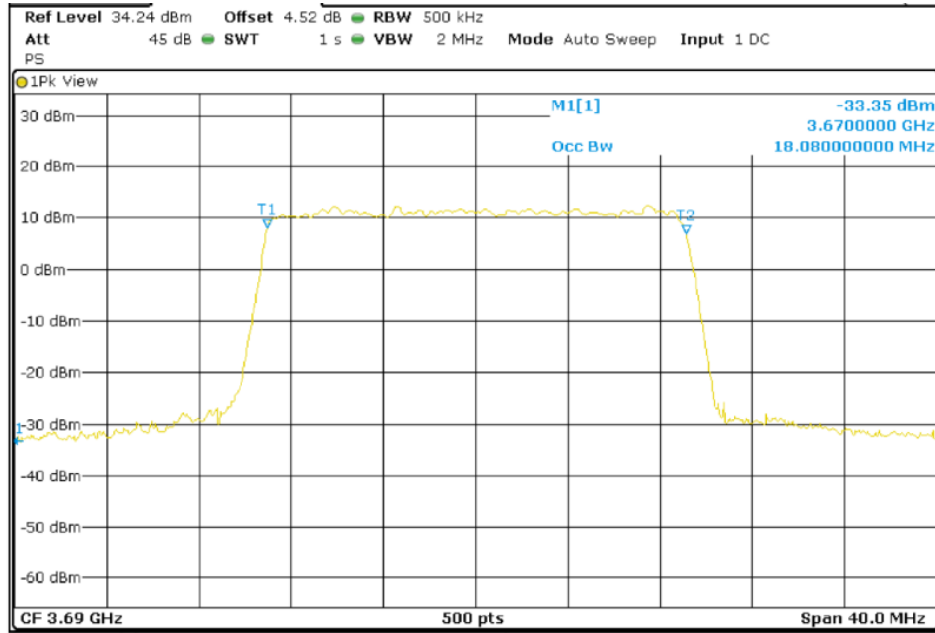


Middle Channel (3625 MHz) 16QAM

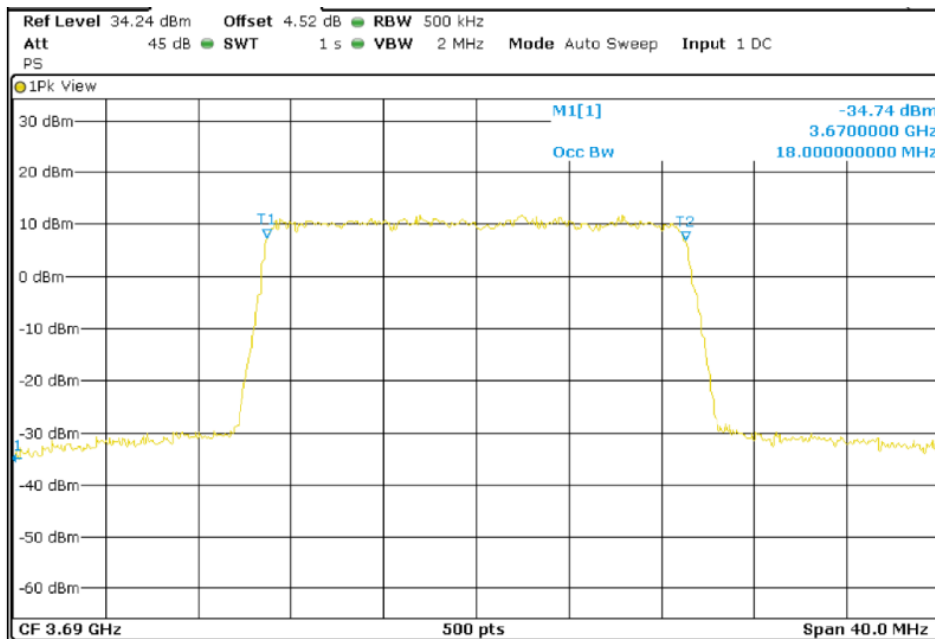


TEST RESULTS (Cont.):

High Channel (3690 MHz) QPSK



High Channel (3690 MHz) 16QAM

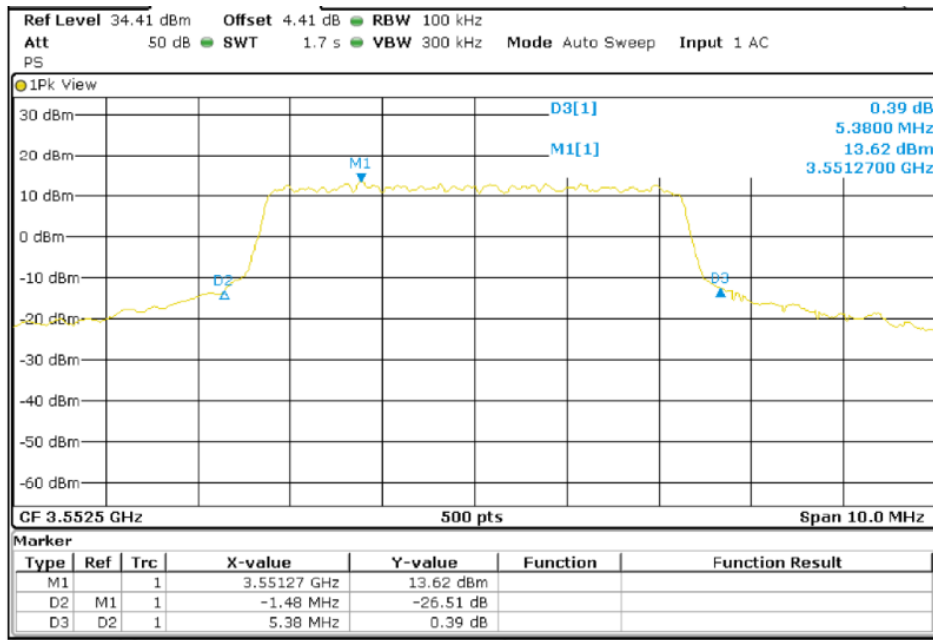


TEST RESULTS (Cont.):

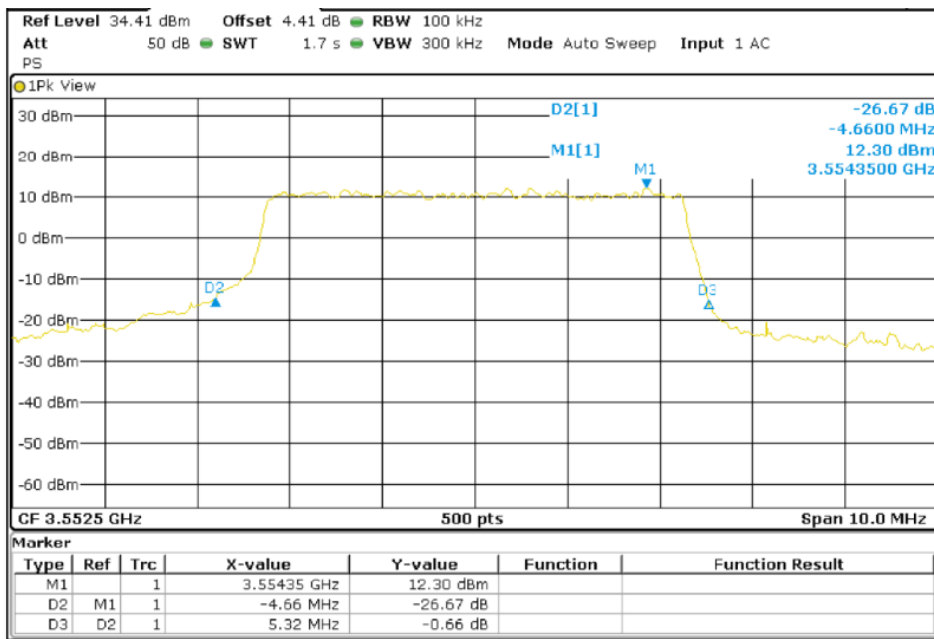
-26dB Bandwidth

5 MHz BW

Lowest Channel (3552.5 MHz) QPSK

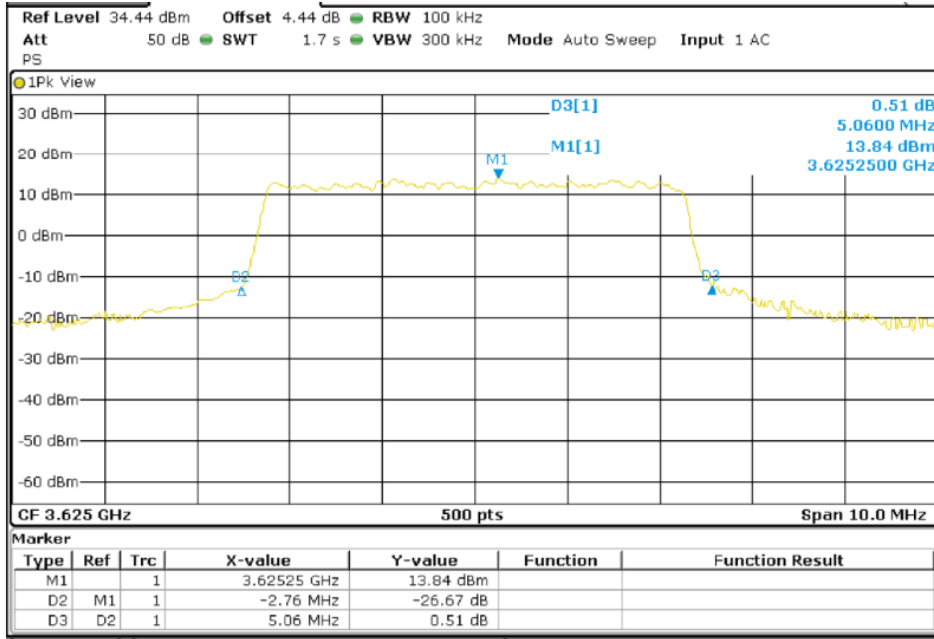


Lowest Channel (3552.5 MHz) 16QAM

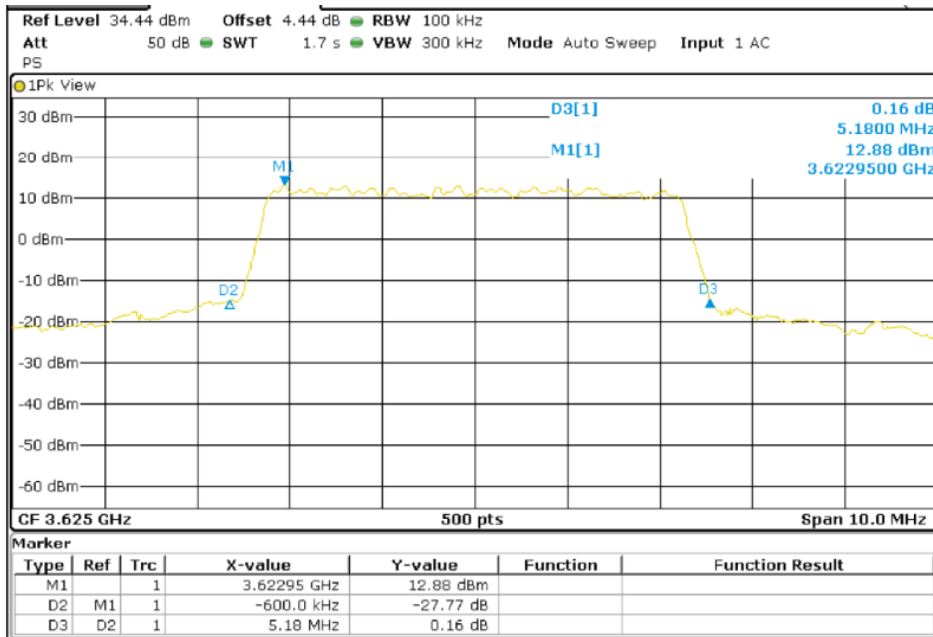


TEST RESULTS (Cont.):

Middle Channel (3625 MHz) QPSK

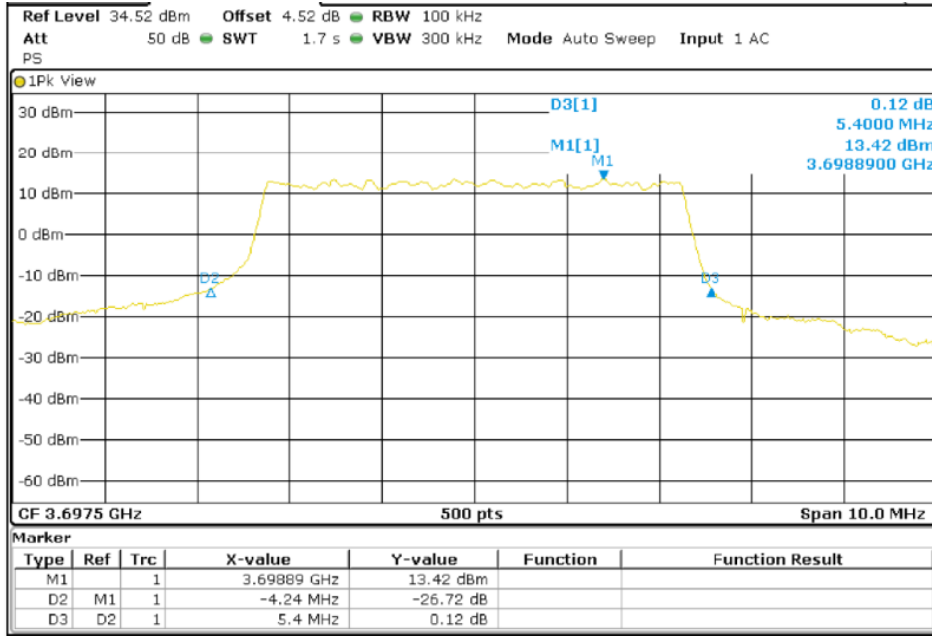


Middle Channel (3625 MHz) 16QAM

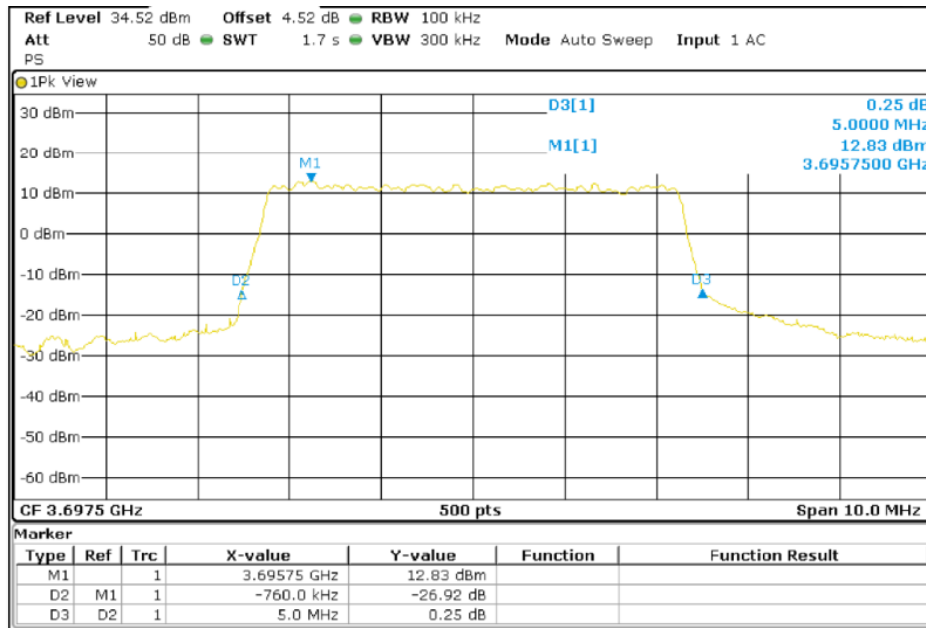


TEST RESULTS (Cont.):

Highest Channel (3697.5 MHz) QPSK



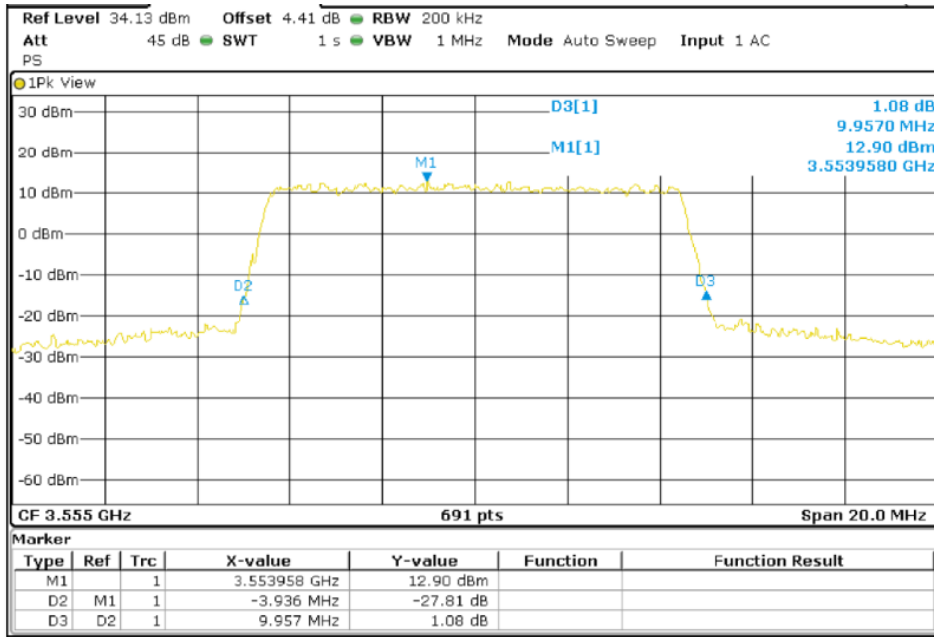
Highest Channel (3697.5 MHz) 16QAM



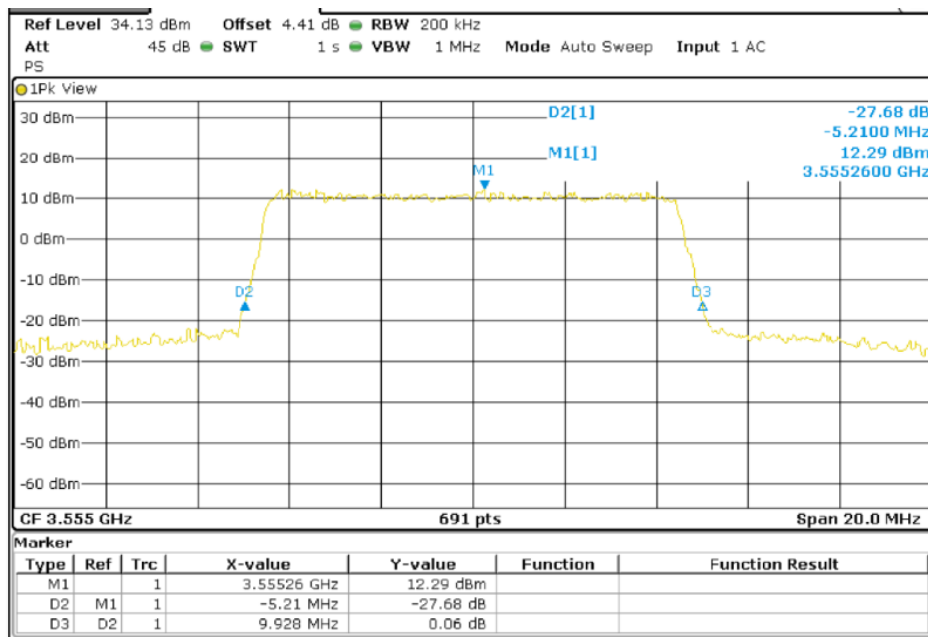
TEST RESULTS (Cont.):

10 MHz BW

Lowest Channel (3555 MHz) QPSK

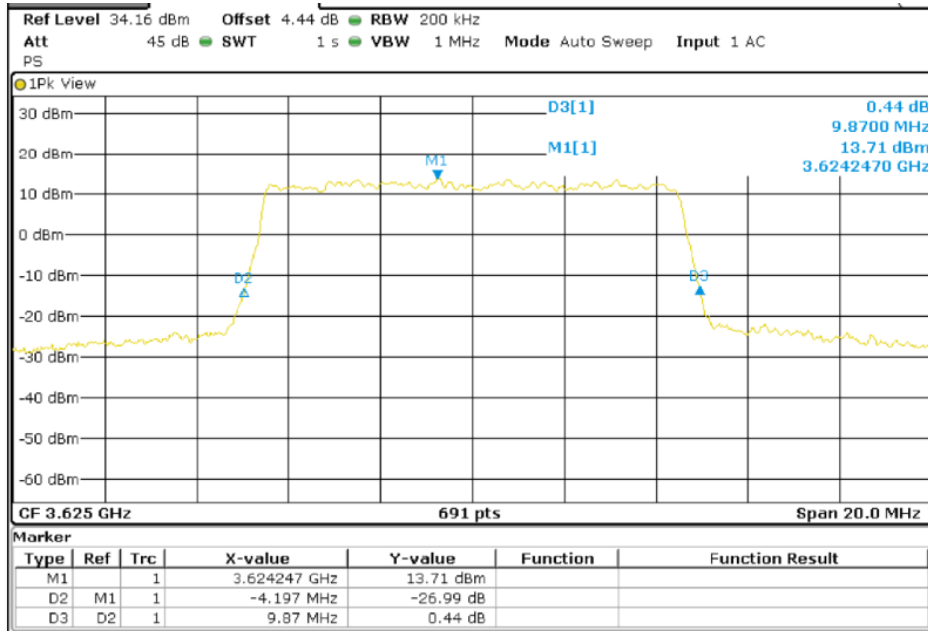


Lowest Channel (3555 MHz) 16QAM

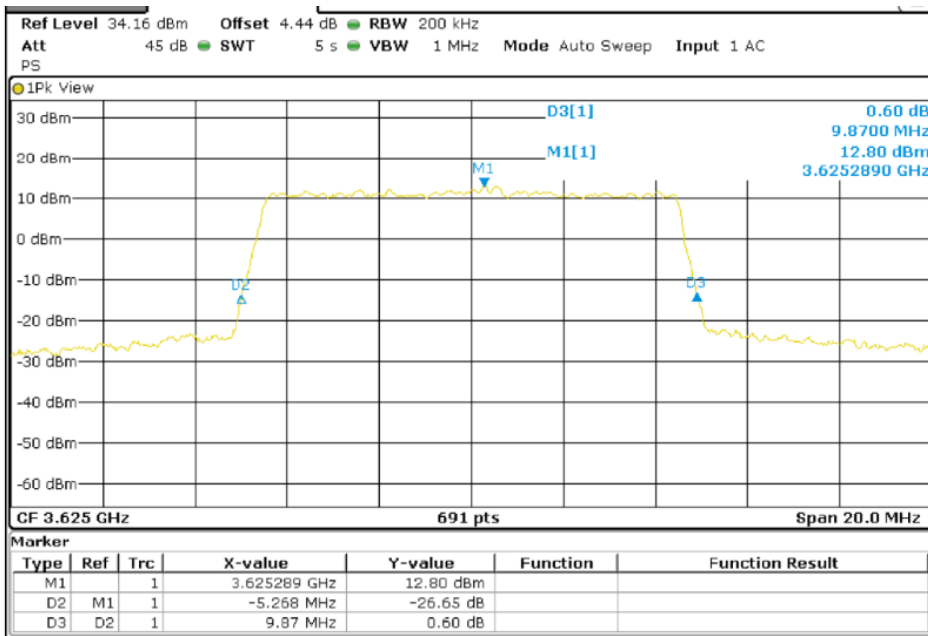


TEST RESULTS (Cont.):

Middle Channel (3625 MHz) QPSK

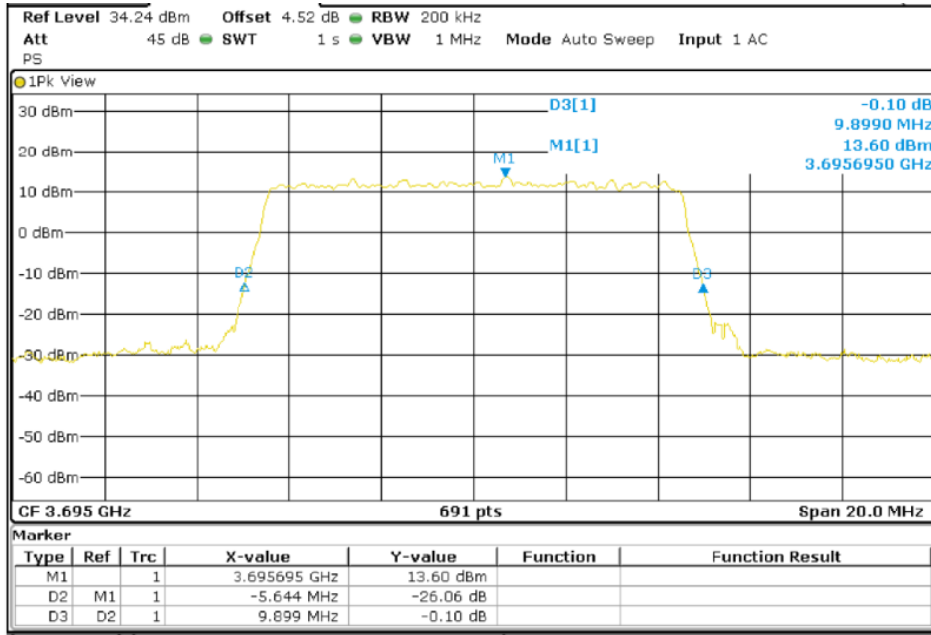


Middle Channel (3625 MHz) 16QAM

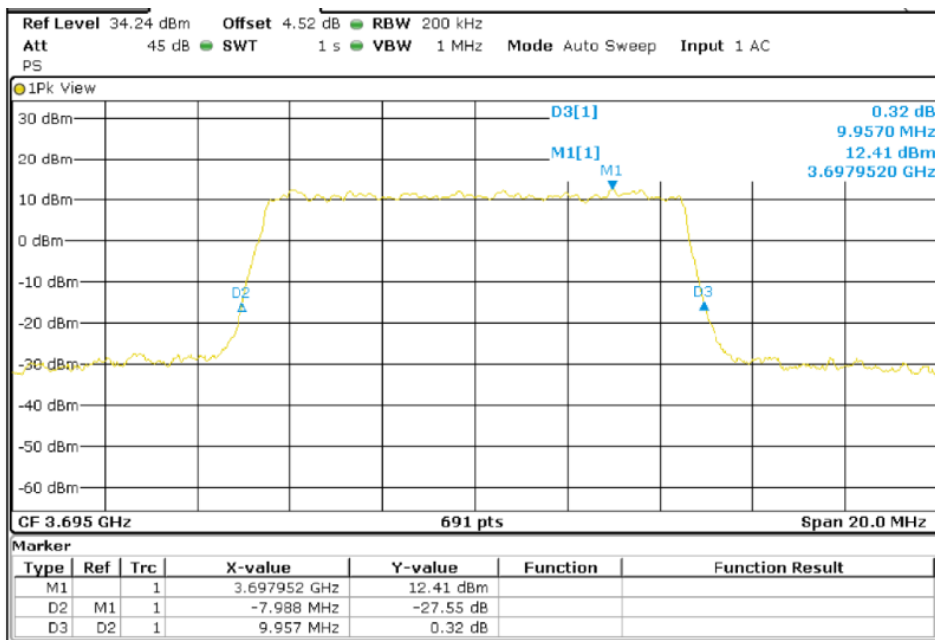


TEST RESULTS (Cont.):

High Channel (3695 MHz) QPSK



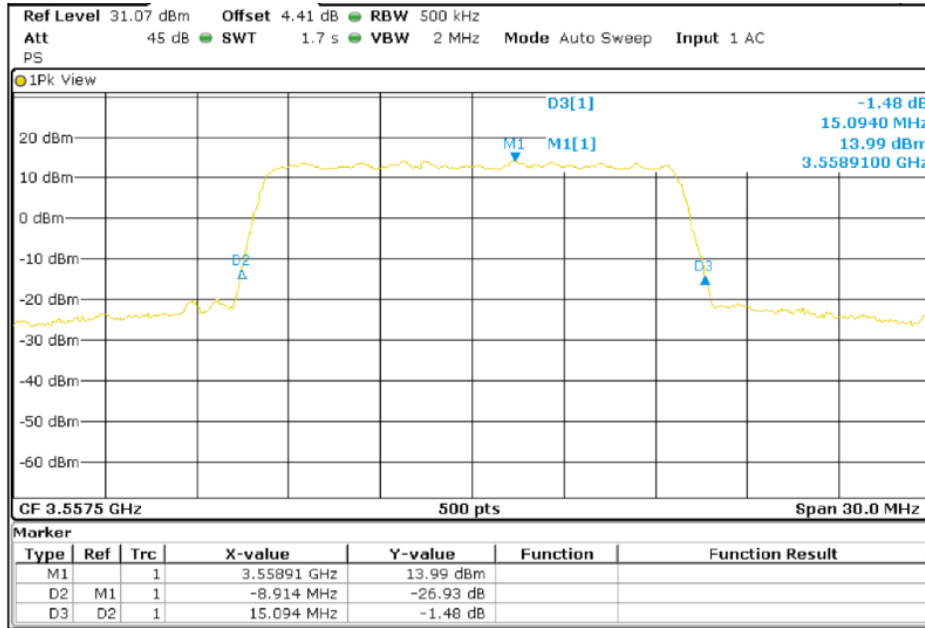
High Channel (3695 MHz) 16QAM



TEST RESULTS (Cont.):

15 MHz BW

Lowest Channel (3557.5 MHz) QPSK



Lowest Channel (3557.5 MHz) 16QAM

