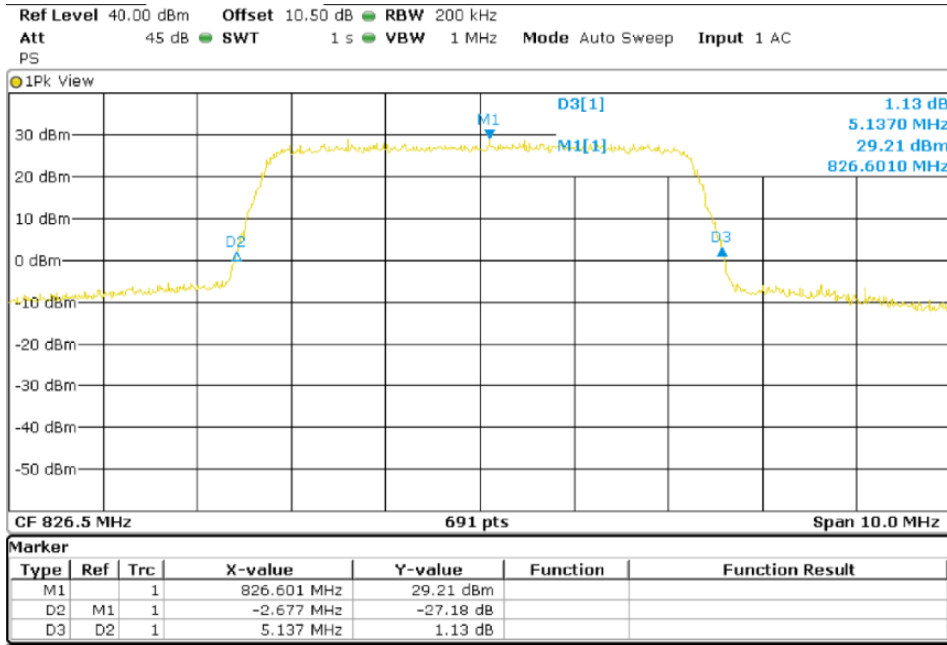
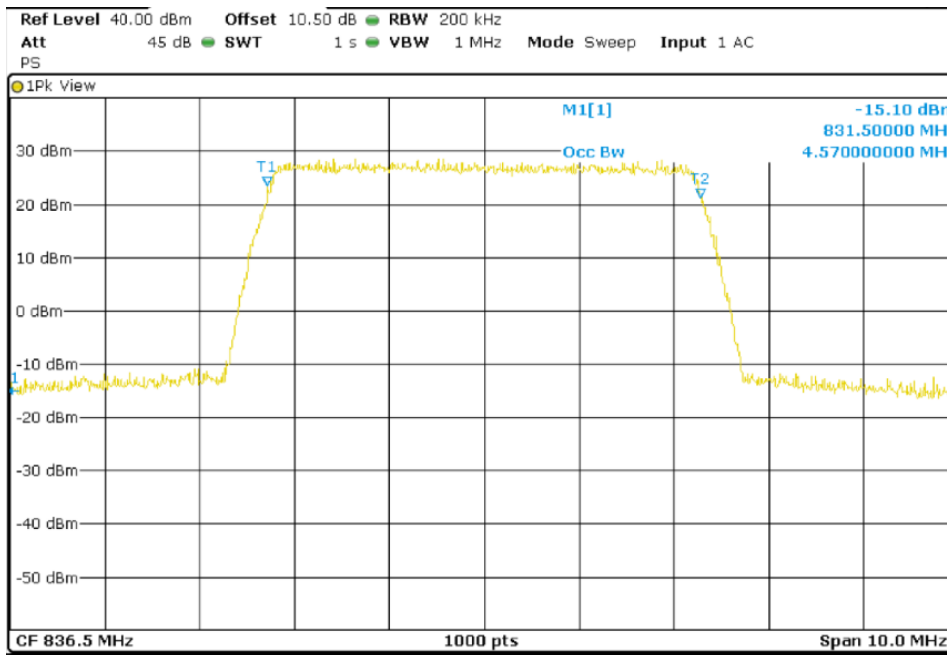


TEST RESULTS (Cont):

Lowest Channel 26dBc Bandwidth kHz

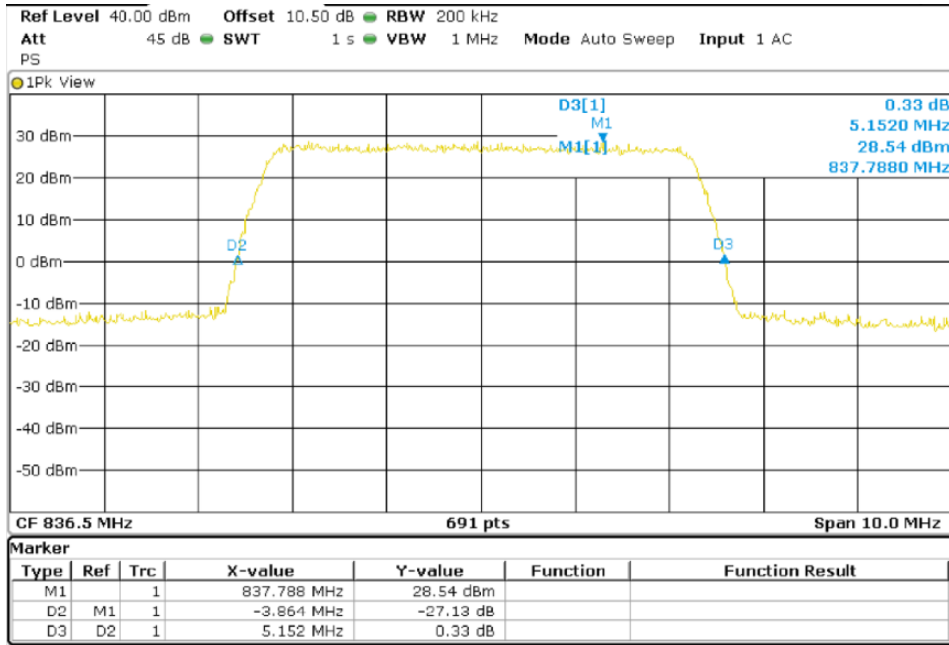


Middle Channel 99% Occupied Bandwidth

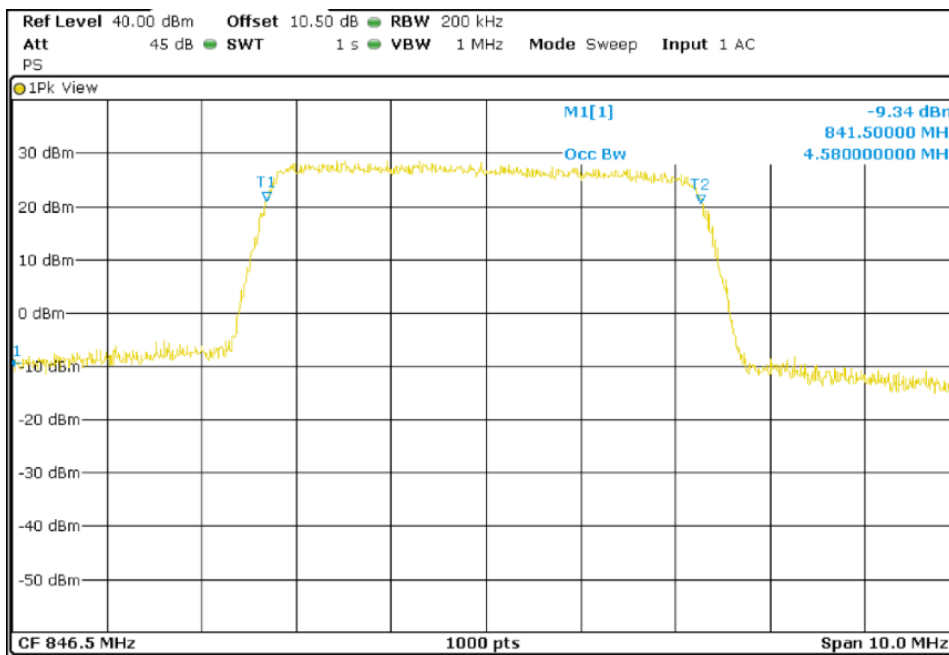


TEST RESULTS (Cont):

Middle Channel 26dBc Bandwidth kHz

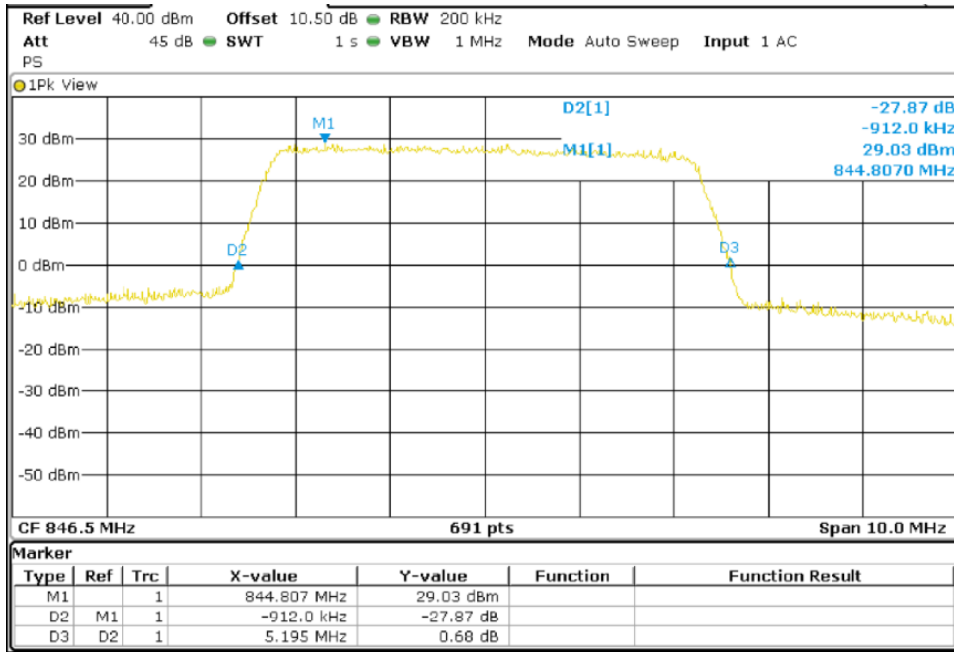


Highest Channel 99% Occupied Bandwidth



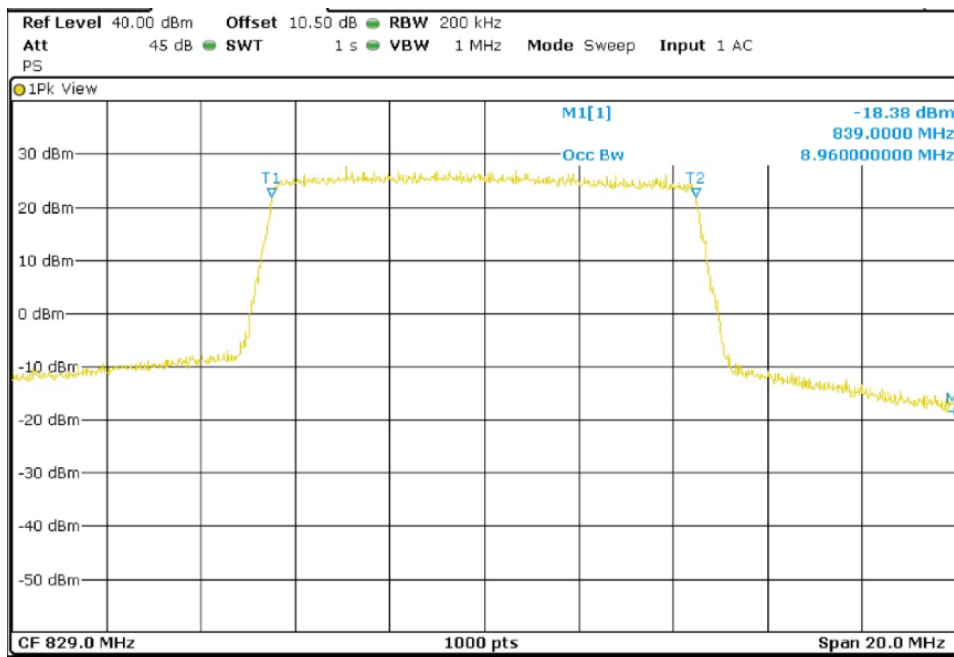
TEST RESULTS (Cont):

Highest Channel 26dBc Bandwidth kHz



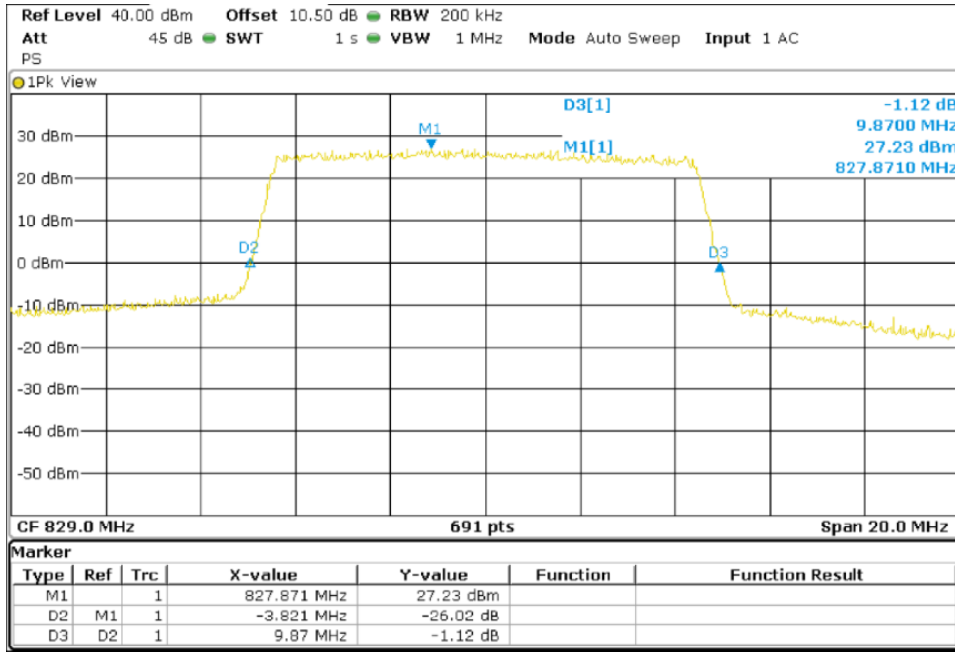
LTE QPSK MODULATION. BW = 10 MHz

Lowest Channel 99% Occupied Bandwidth

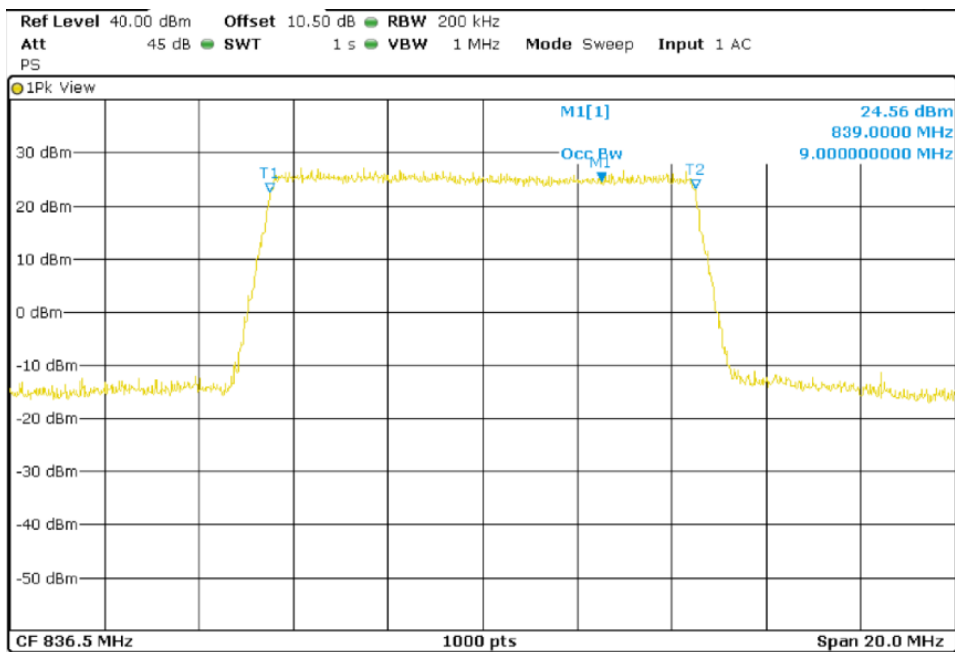


TEST RESULTS (Cont):

Lowest Channel 26dBc Bandwidth kHz

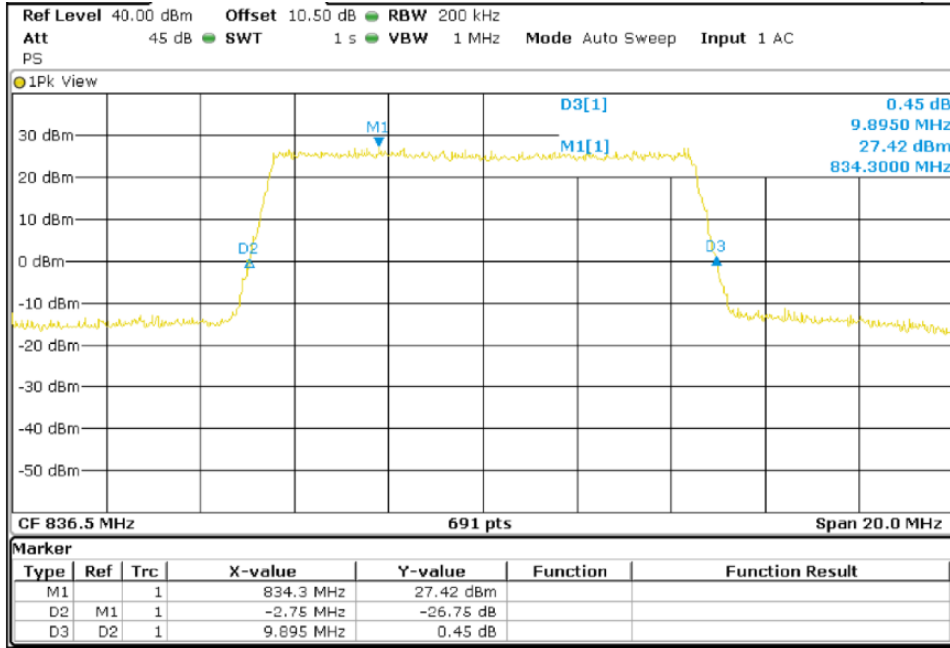


Middle Channel 99% Occupied Bandwidth

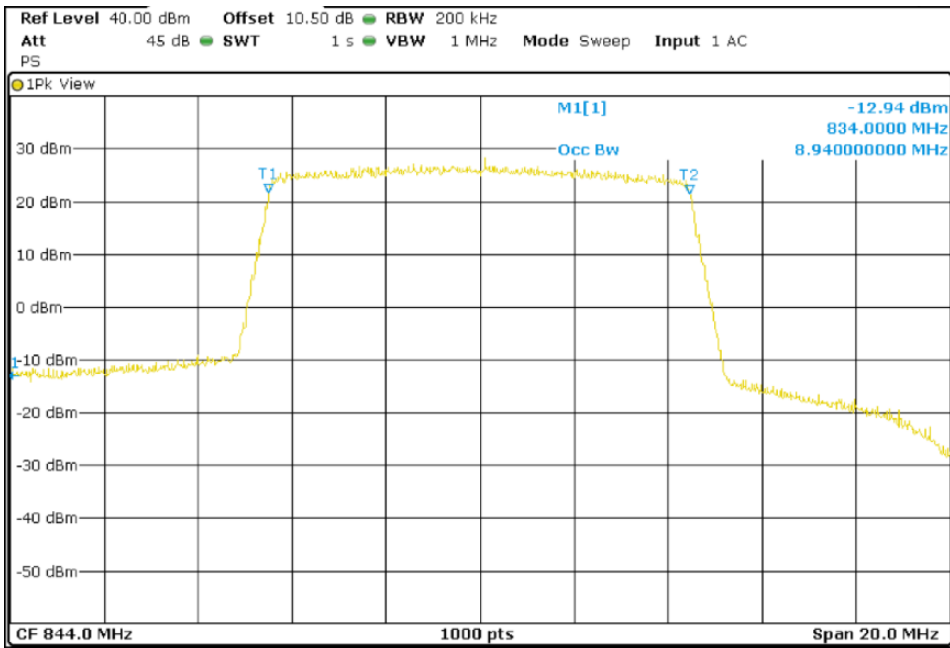


TEST RESULTS (Cont):

Middle Channel 26dBc Bandwidth kHz

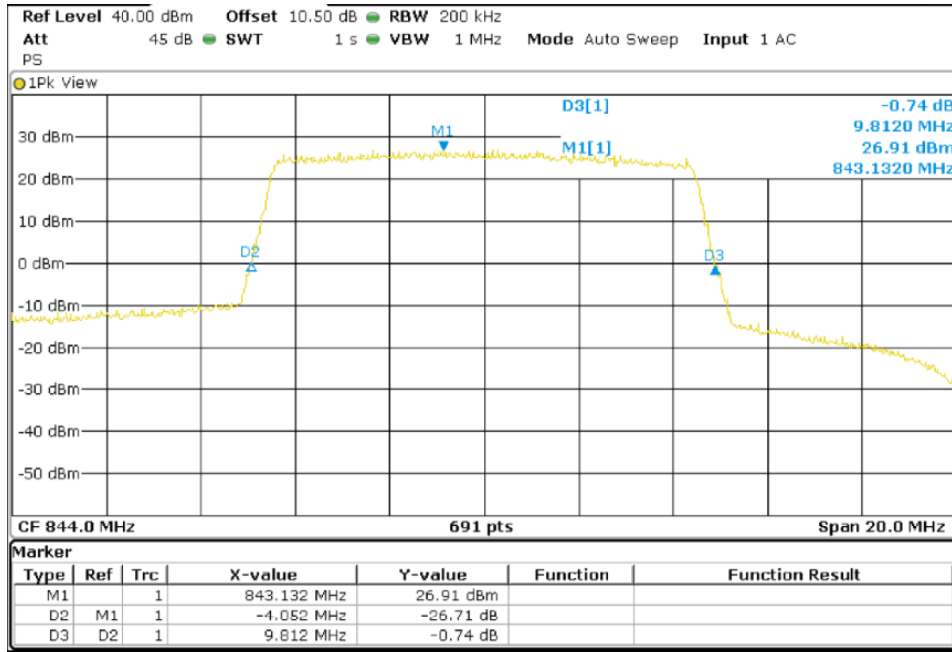


Highest Channel 99% Occupied Bandwidth



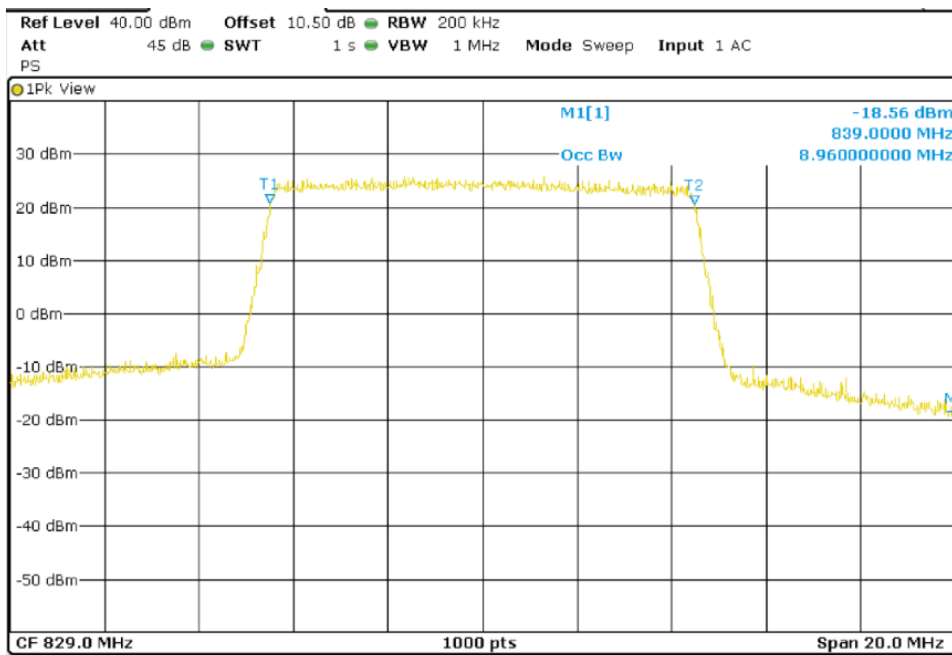
TEST RESULTS (Cont):

Highest Channel 26dBc Bandwidth kHz



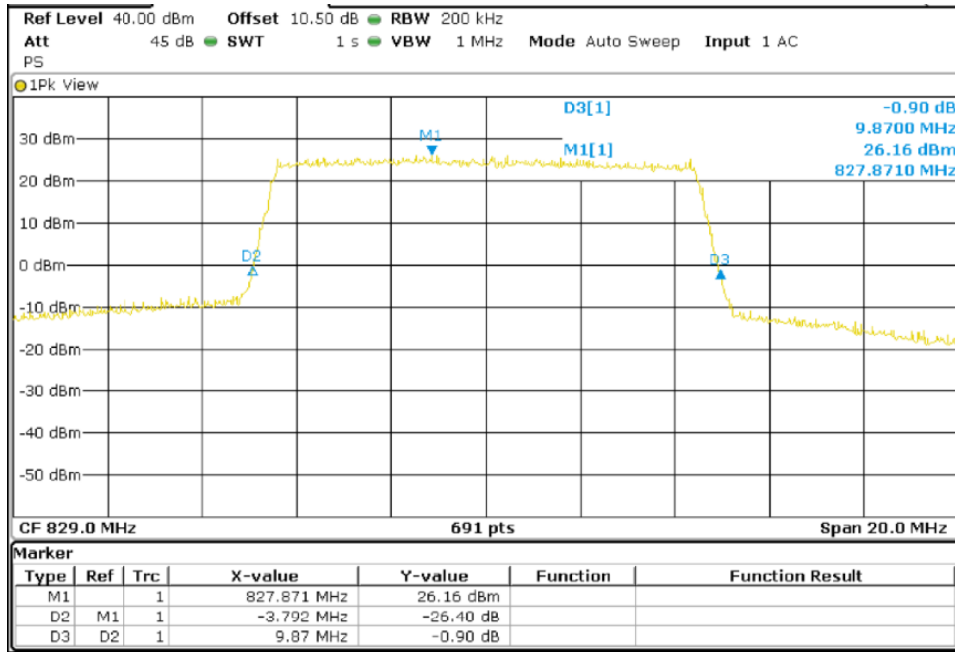
LTE 16QAM MODULATION. BW = 10 MHz

Lowest Channel 99% Occupied Bandwidth

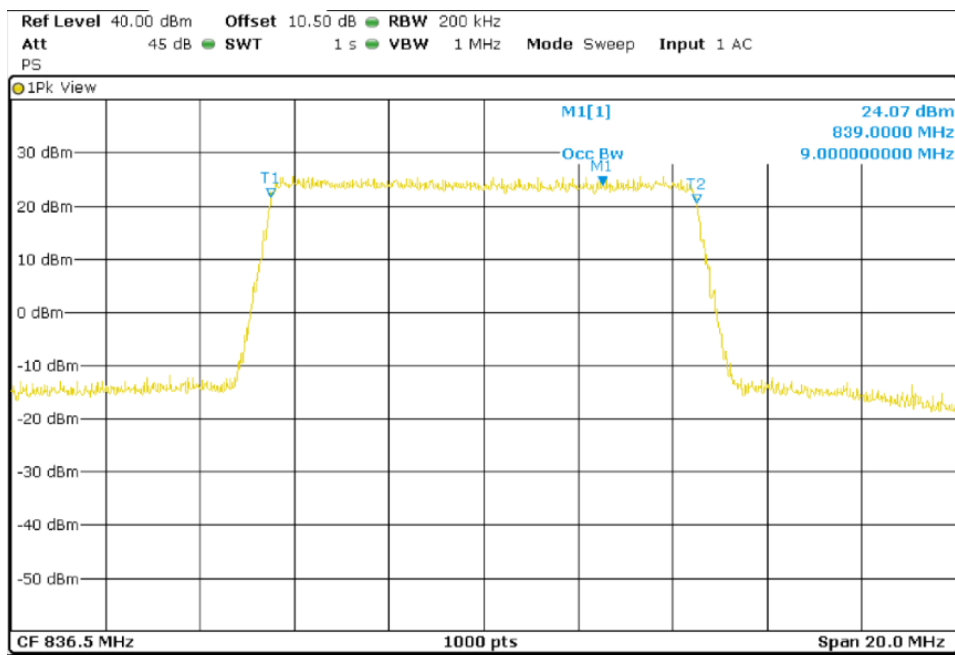


TEST RESULTS (Cont):

Lowest Channel 26dBc Bandwidth kHz

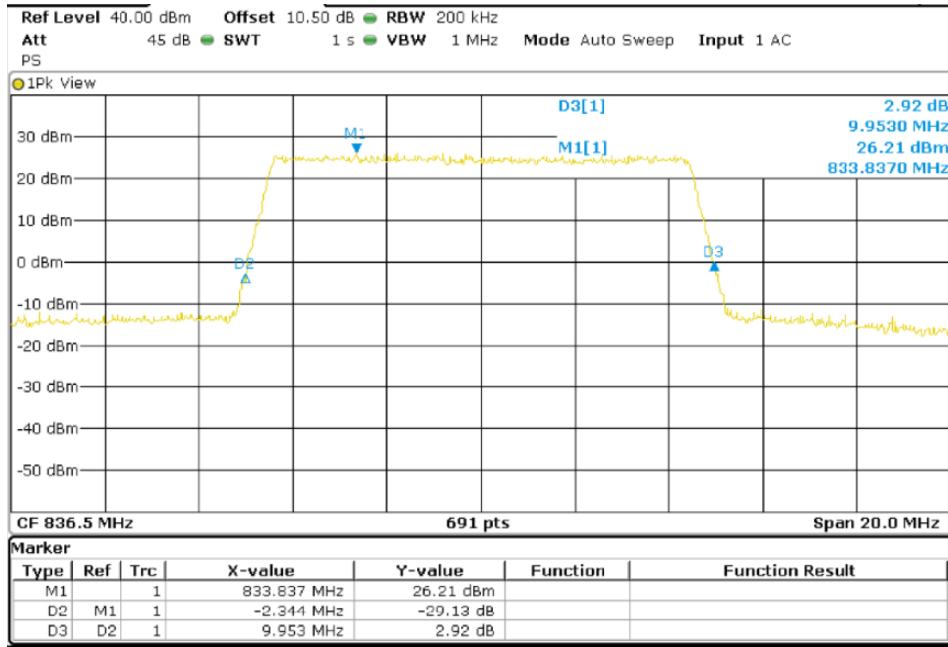


Middle Channel 99% Occupied Bandwidth

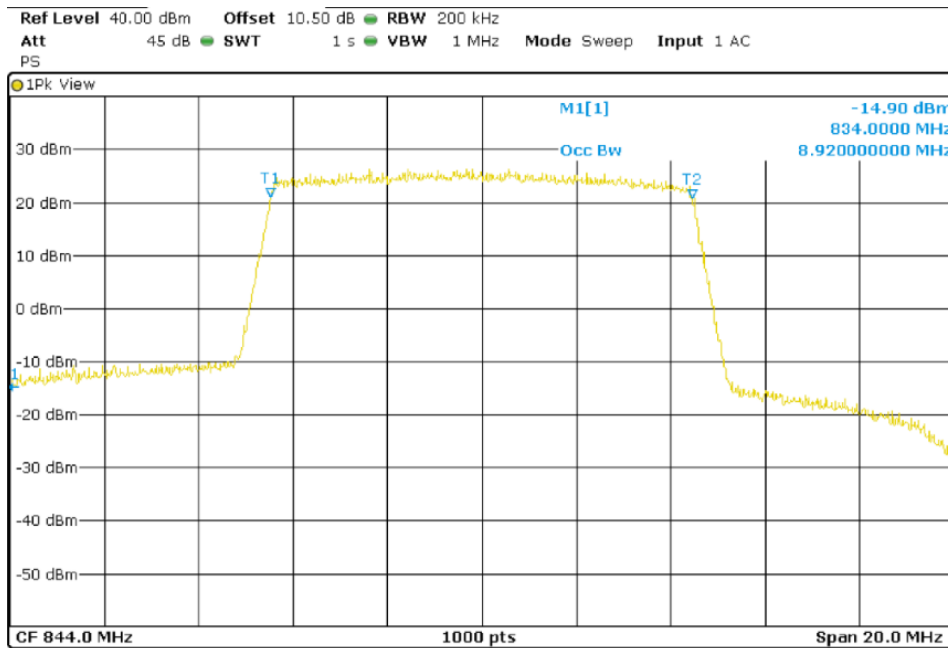


TEST RESULTS (Cont):

Middle Channel 26dBc Bandwidth kHz

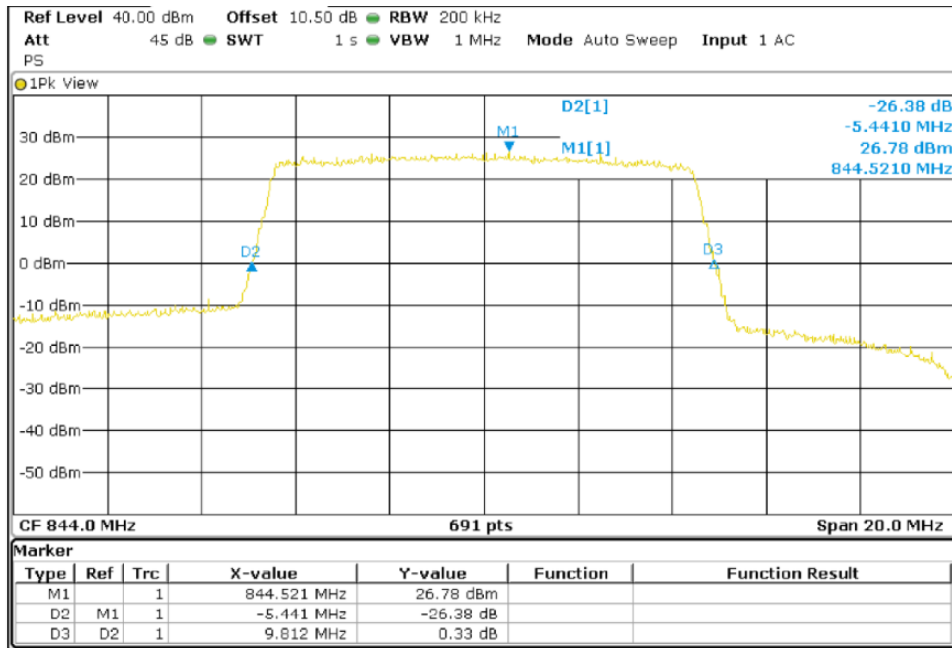


Highest Channel 99% Occupied Bandwidth



TEST RESULTS (Cont):

Highest Channel 26dBc Bandwidth kHz



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02
TEST RESULTS:	PASS

GPRS MODULATION.

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	245.00	241.67	241.67
-26 dBc bandwidth (kHz)	318.40	322.70	321.30

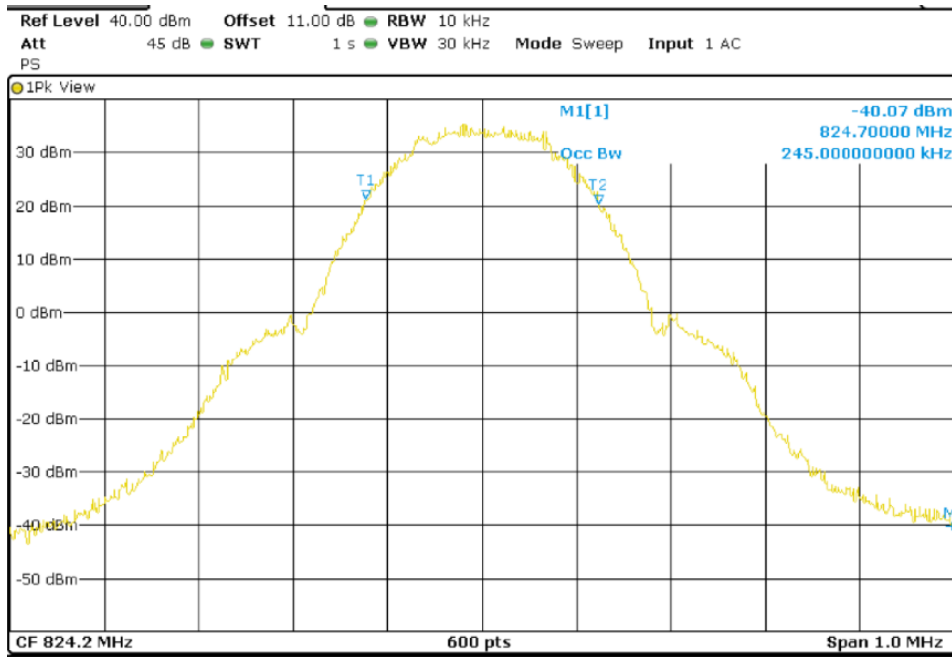
EDGE MODULATION.

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (kHz)	243.33	243.33	241.67
-26 dBc bandwidth (kHz)	316.93	322.72	316.90

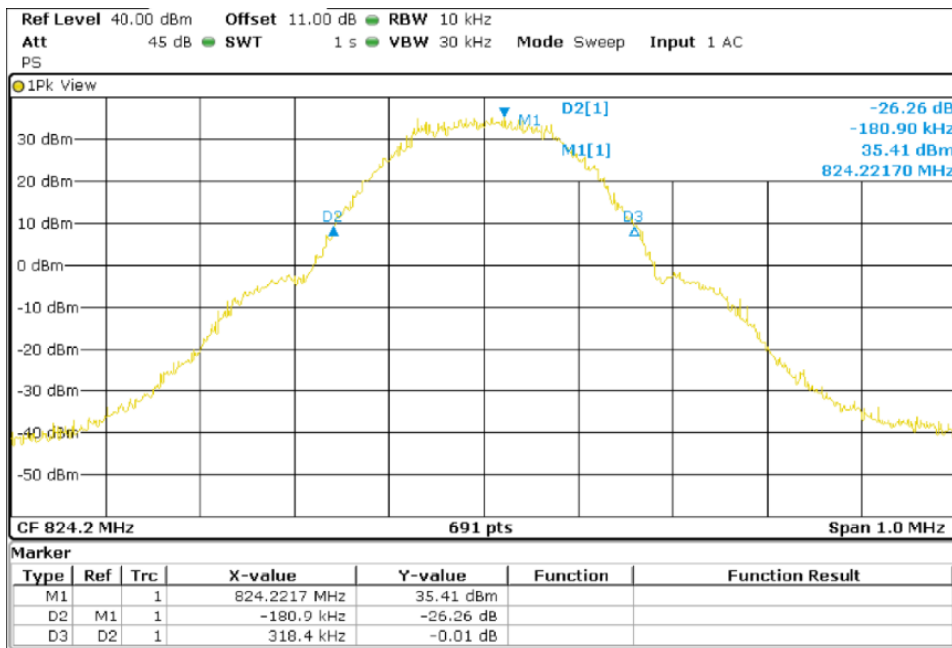
TEST RESULTS (Cont):

GPRS MODULATION.

Lowest Channel 99% Occupied Bandwidth

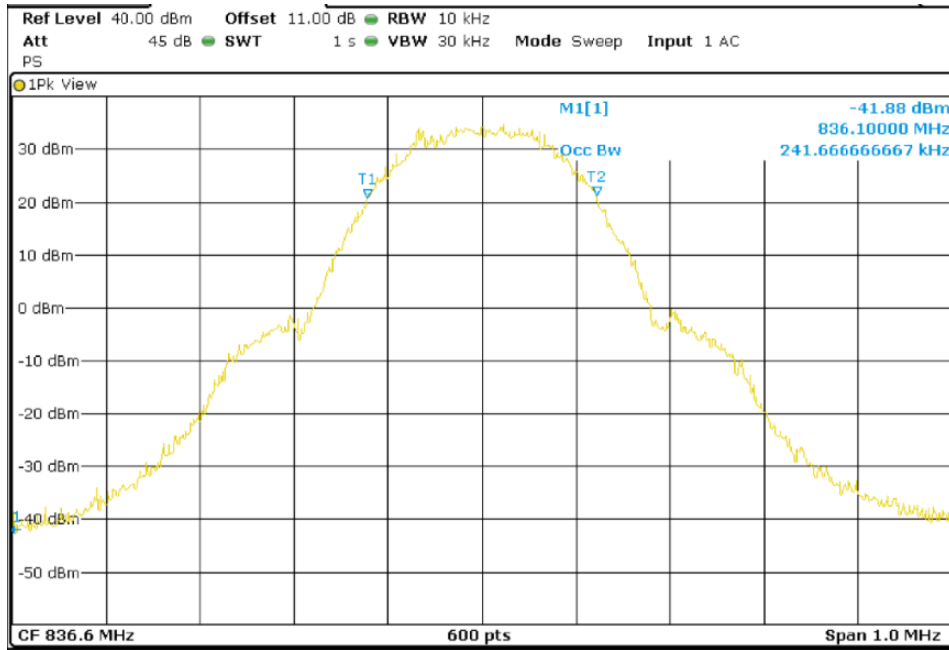


Lowest Channel 26dBc Bandwidth kHz

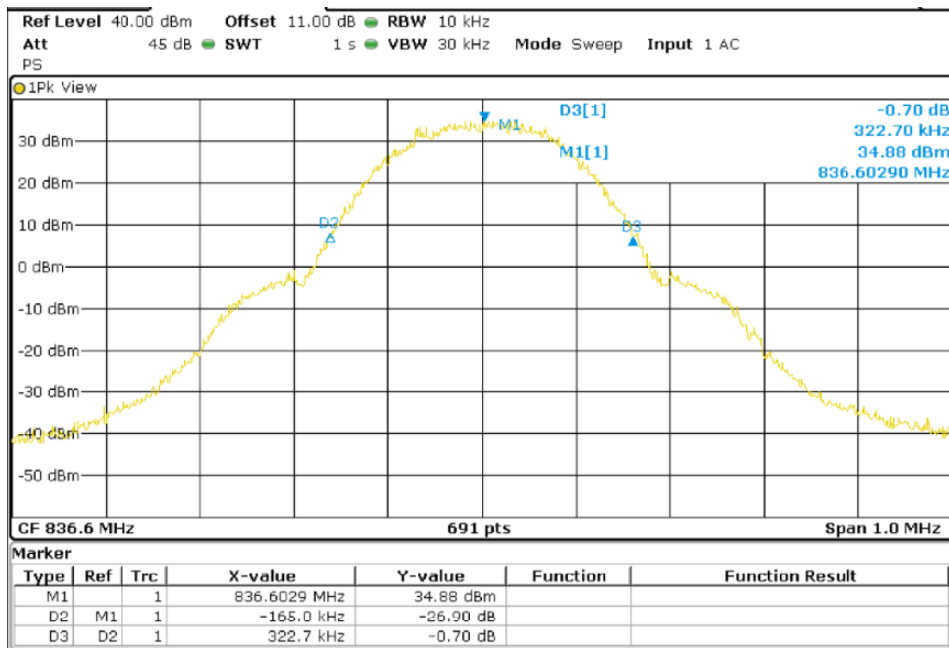


TEST RESULTS (Cont):

Middle Channel 99% Occupied Bandwidth

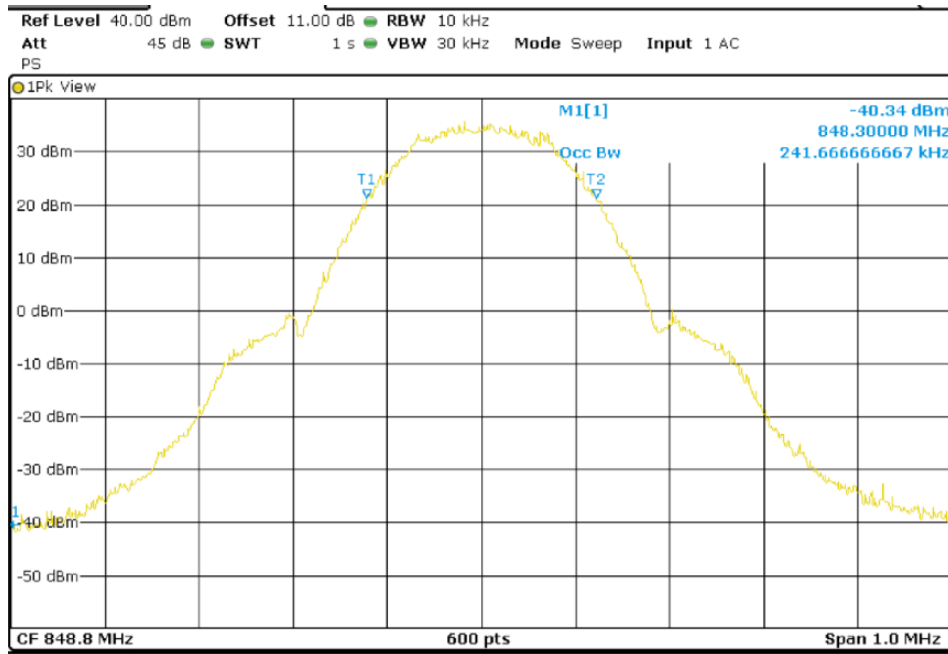


Middle Channel 26dBc Bandwidth kHz

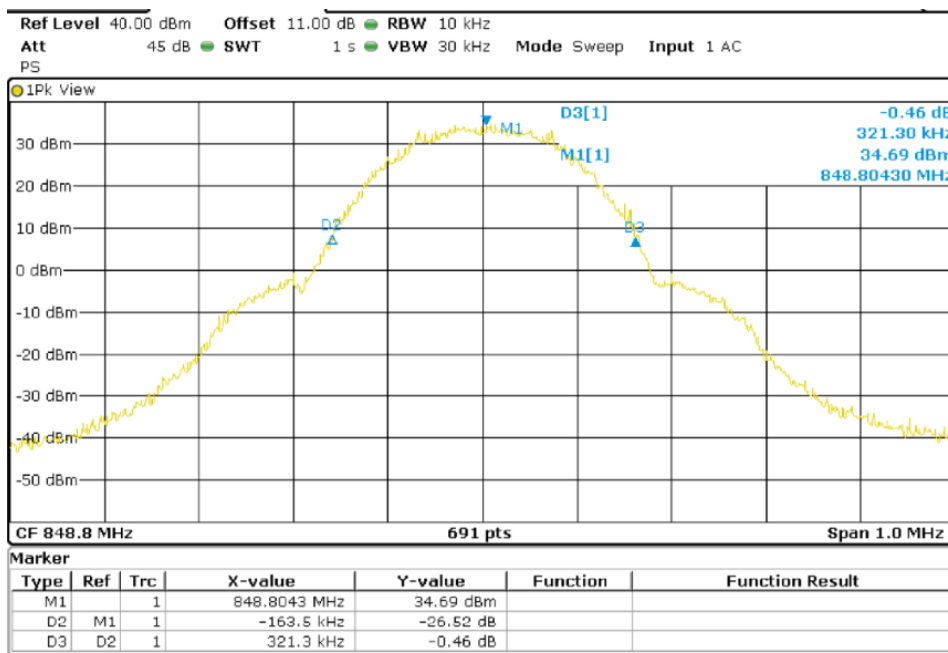


TEST RESULTS (Cont):

Highest Channel 99% Occupied Bandwidth



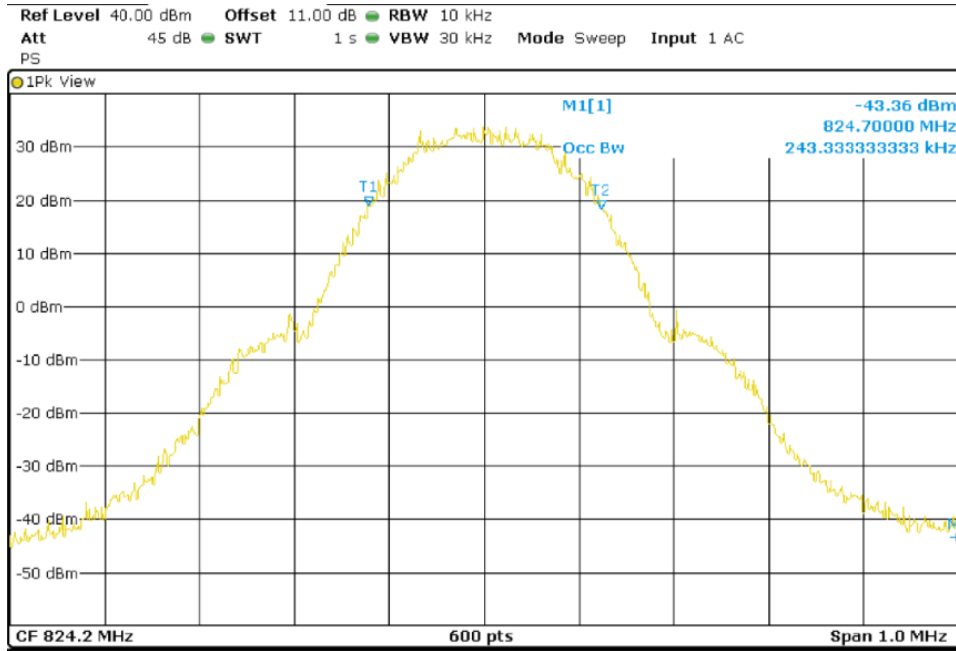
Highest Channel 26dBc Bandwidth kHz



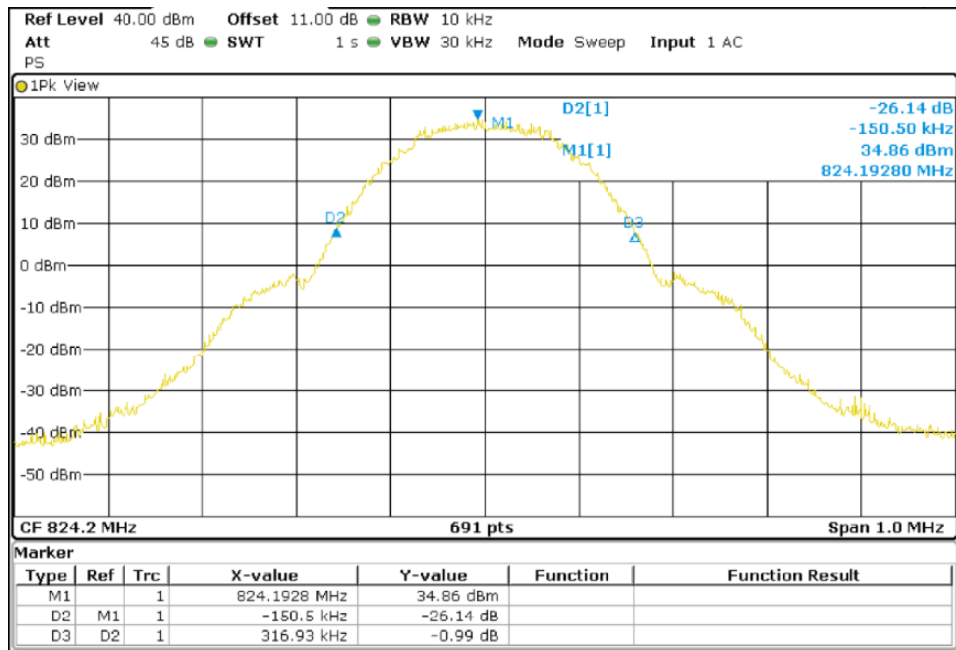
TEST RESULTS (Cont):

EDGE MODULATION.

Lowest Channel 99% Occupied Bandwidth

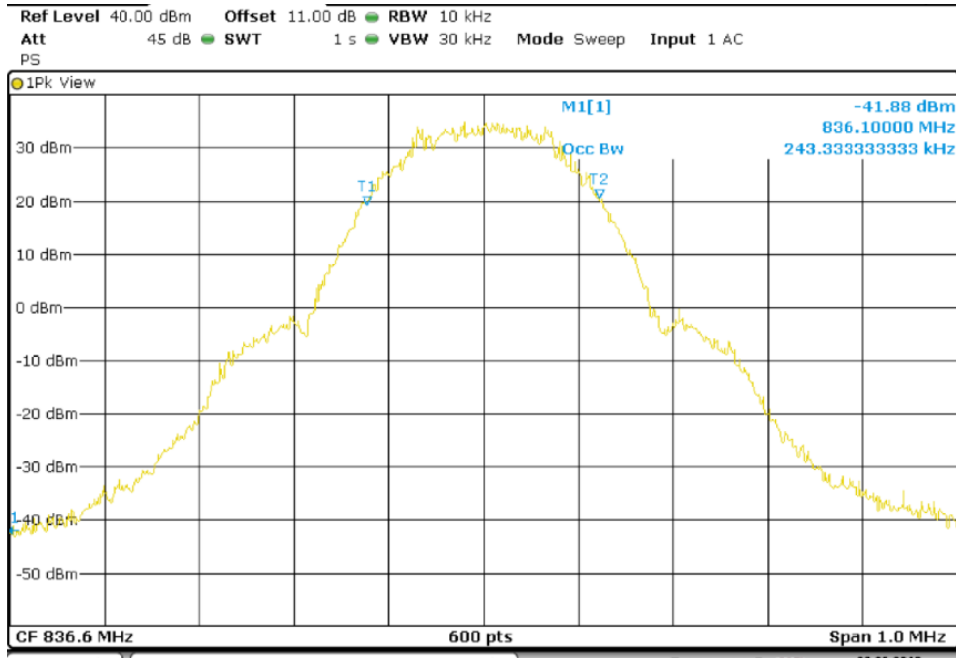


Lowest Channel 26dBc Bandwidth kHz

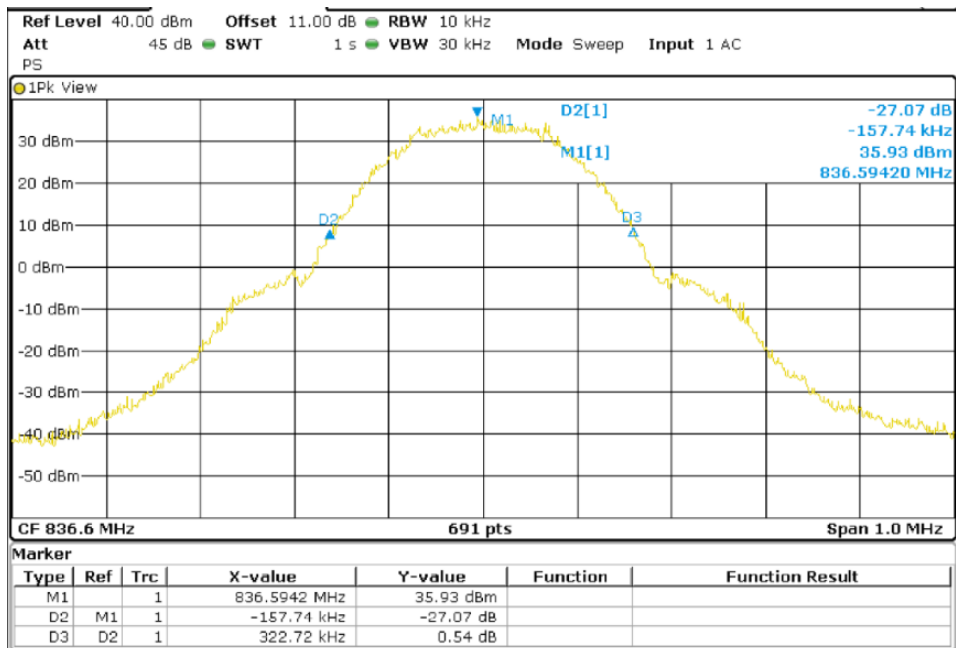


TEST RESULTS (Cont):

Middle Channel 99% Occupied Bandwidth

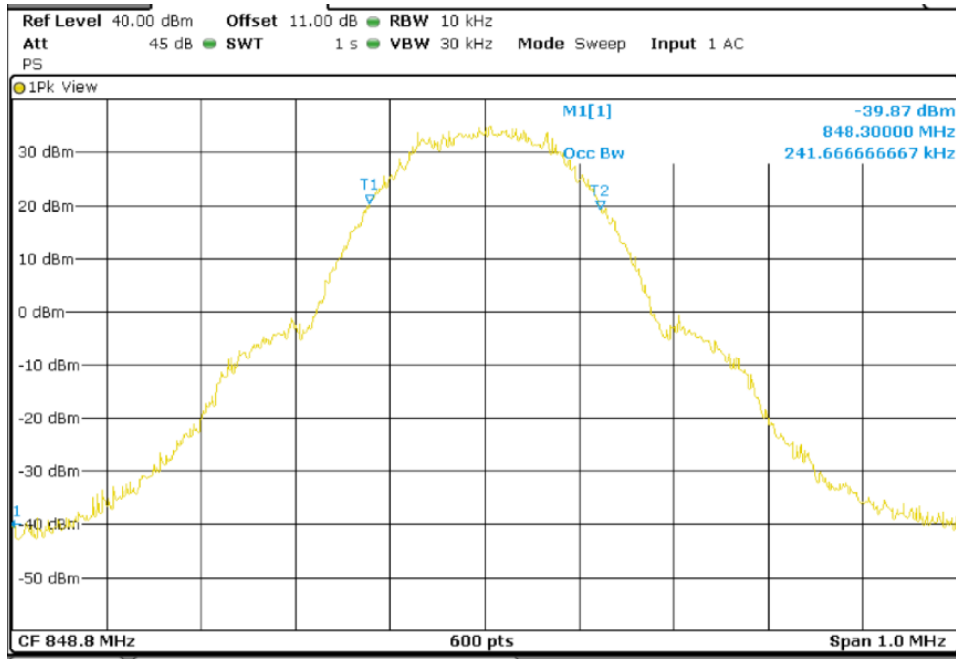


Middle Channel 26dBc Bandwidth kHz

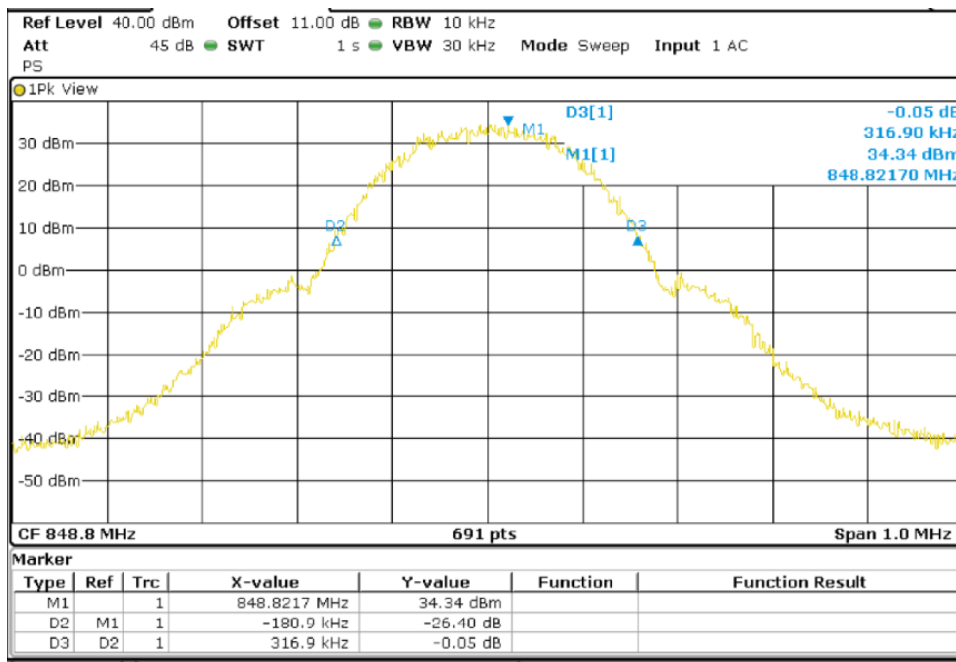


TEST RESULTS (Cont):

Highest Channel 99% Occupied Bandwidth



Highest Channel 26dBc Bandwidth kHz



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03
TEST RESULTS:	PASS

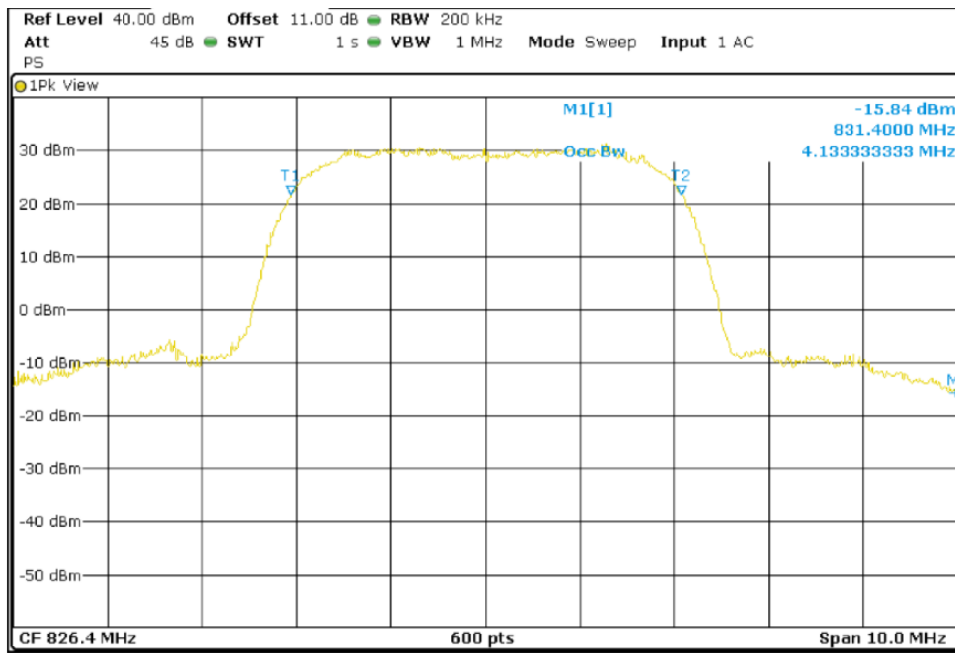
WCDMA MODULATION.

Channel	Lowest	Middle	Highest
99% Occupied bandwidth (MHz)	4.13	4.15	4.13
-26 dBc bandwidth (MHz)	4.72	4.72	4.70

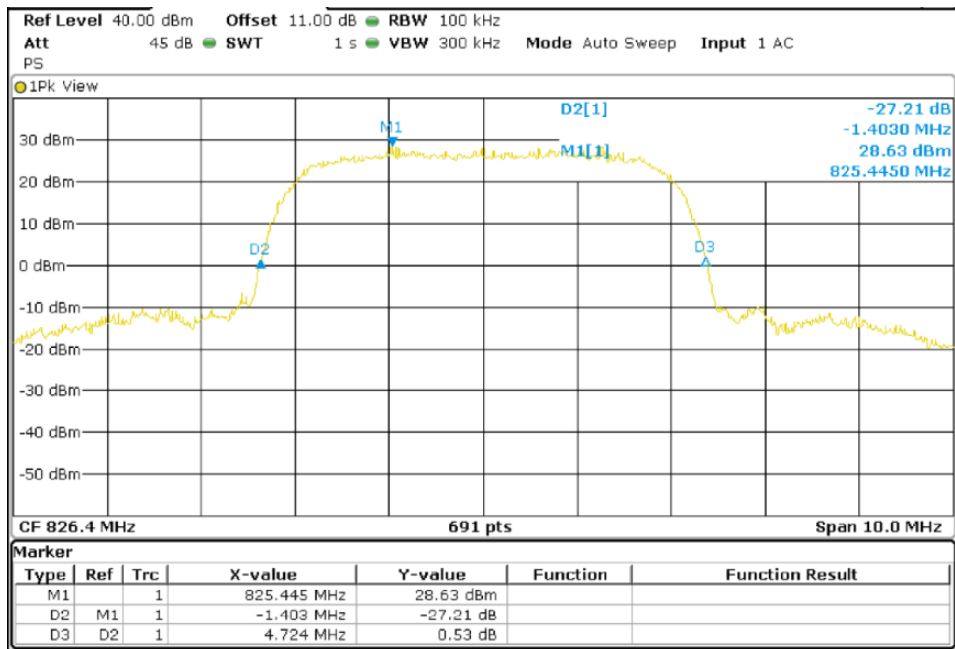
TEST RESULTS (Cont):

WCDMA Modulation

Low Channel 99% Occupied Bandwidth

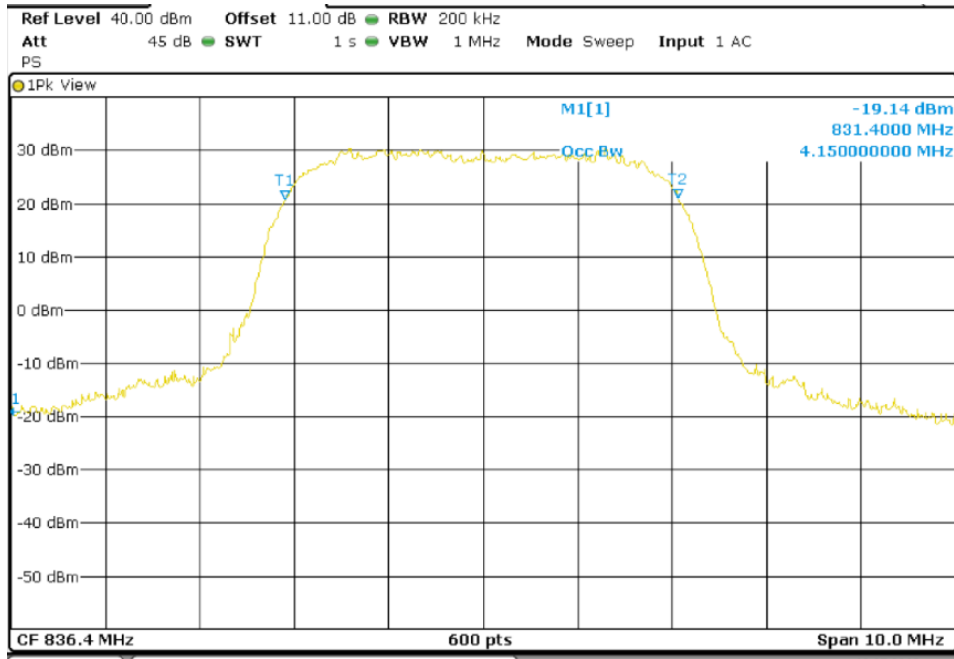


Low Channel 26dBc Bandwidth kHz

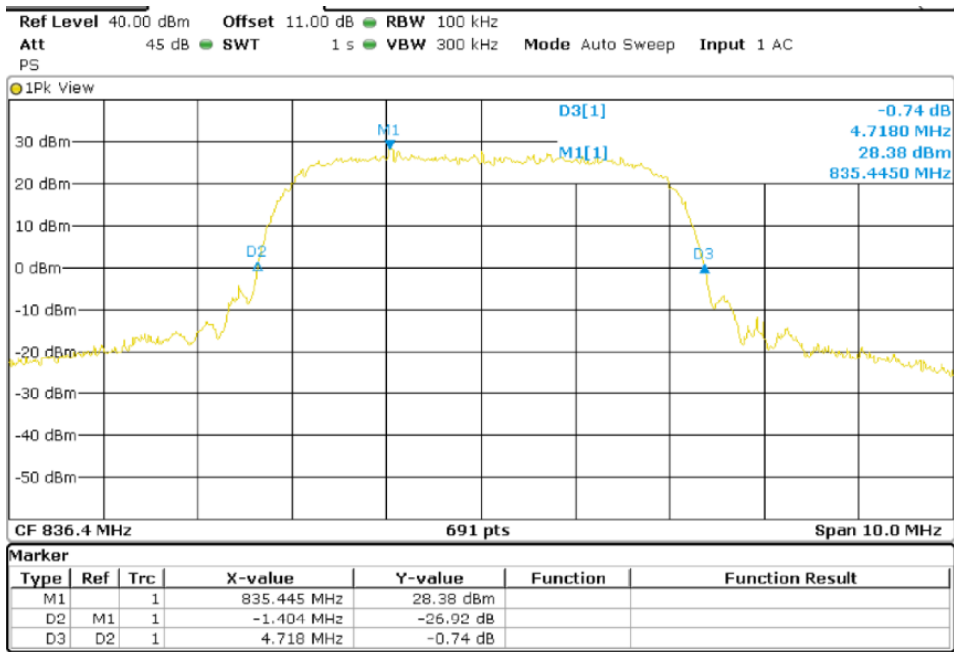


TEST RESULTS (Cont):

Middle Channel 99% Occupied Bandwidth

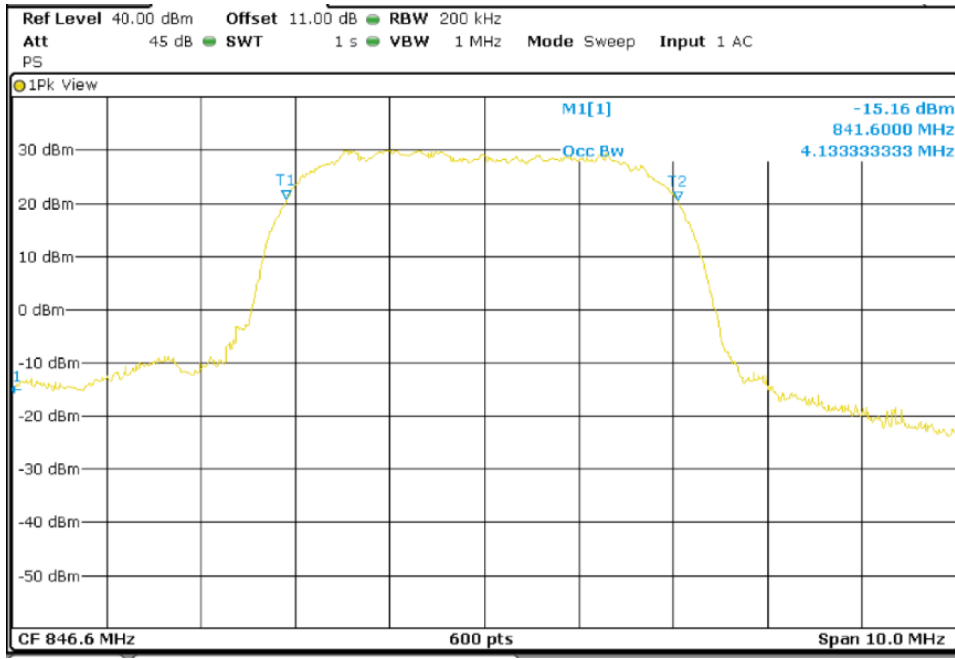


Middle Channel 26dBc Bandwidth kHz

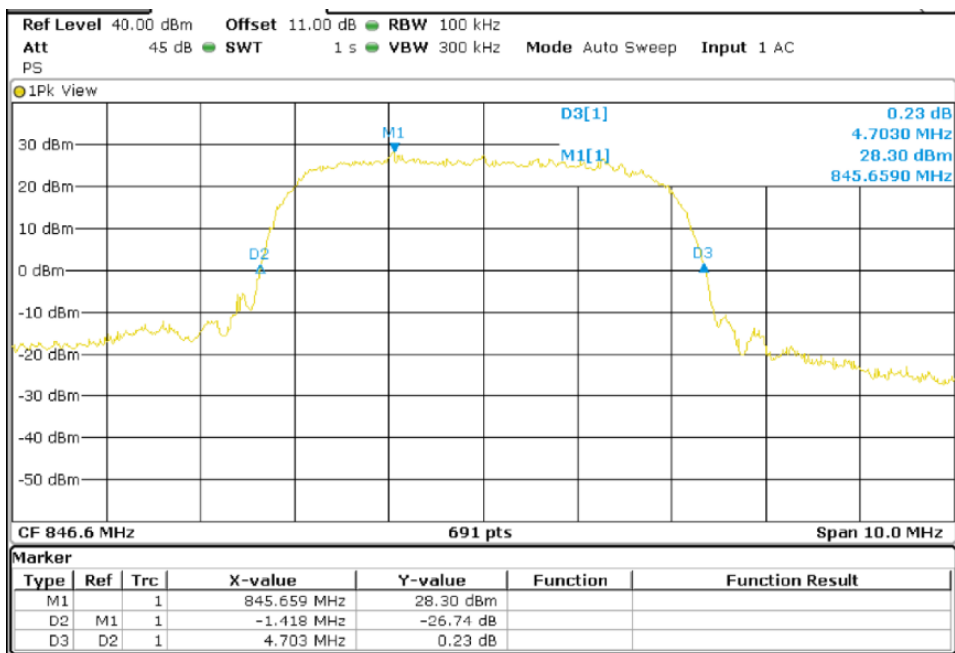


TEST RESULTS (Cont):

High Channel 99% Occupied Bandwidth



High Channel 26dBc Bandwidth kHz



TEST A.5: SPURIOUS EMISSIONS AT ANTENNA TERMINALS

LIMITS:	Product standard:	FCC Part 22 / IC RSS-132
	Test standard:	FCC §2.1051 and § 22.917 / RSS-132 Clause 5.5

LIMITS

According to specification, the power of emissions shall be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. P in watts.

At P_o transmitting power of 2 watts (33 dBm), the specified minimum attenuation becomes $43+10\log (P_o)$. and the level in dBm relative to P_o becomes:

$$P_o \text{ (dBm)} - [43 + 10 \log (P_o \text{ in watts})] = -13 \text{ dBm}$$

TEST SETUP

The EUT RF output connector was connected to a spectrum analyzer and to the Universal Radio Communication Tester R&S CMW500 (selecting maximum transmission power of the EUT and different modes of modulation) using a 50-ohm attenuator and a power splitter.

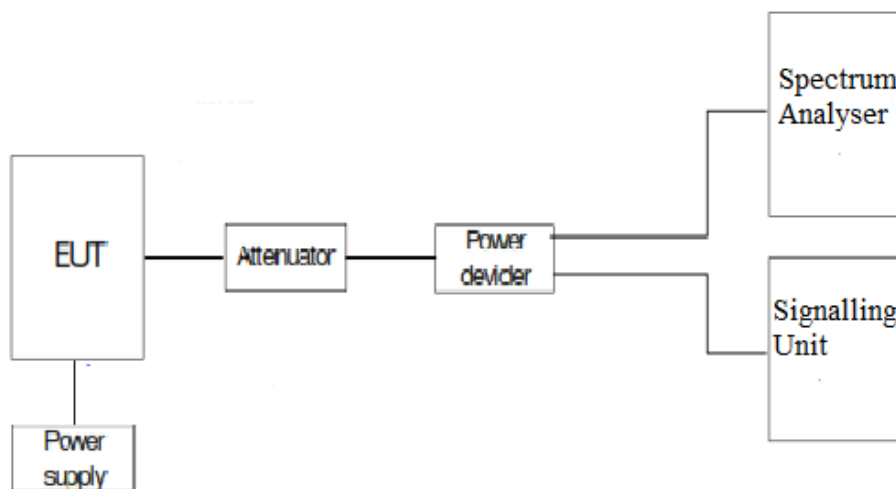
The spectrum was investigated from 9 kHz to 18 GHz for LTE Band V.

The spectrum was investigated from 9 kHz to 18 GHz for 2G GPRS Band 850.

The spectrum was investigated from 9 kHz to 18 GHz for WCDMA and HSUPA Band V.

The reading of the spectrum analyzer is corrected with the attenuation loss of connection between output terminal of EUT and input of the spectrum analyzer.

For LTE mode the configuration of Resource Blocks and modulation which is the worst case for conducted power was used.



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01
TEST RESULTS:	PASS

Frequency range 9 kHz – 20 GHz

LTE QPSK MODULATION. BW = 1.4 MHz

Lowest Channel

Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
869.69	-29.88	< ± 1.20

Middle Channel

Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
881.56	-29.1	< ± 1.20

Highest Channel

Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
893.44	-28.83	< ± 1.20

LTE QPSK MODULATION. BW = 3 MHz

Lowest Channel

Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
870.94	-28.14	< ± 1.20

Middle Channel

Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
881.56	-28.26	< ± 1.20

Highest Channel

Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
892.19	-28.11	< ± 1.20

LTE QPSK MODULATION. BW = 5 MHz

Lowest Channel

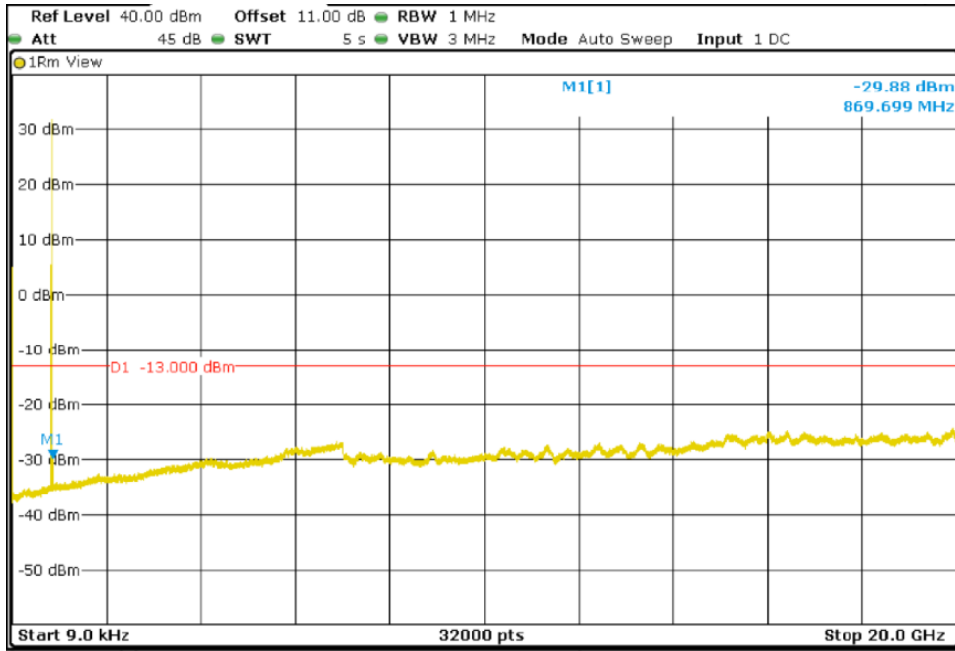
Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
870.94	-27.88	< ± 1.20

TEST RESULTS (Cont):		
Middle Channel		
Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
882.19	-27.9	< ± 1.20
Highest Channel		
Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
890.94	-27.83	< ± 1.20
LTE QPSK MODULATION. BW = 10 MHz		
Lowest Channel		
Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
875.94	-28	< ± 1.20
Middle Channel		
Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
884.06	-28.05	< ± 1.20
Highest Channel		
Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
892.19	-27.73	< ± 1.20

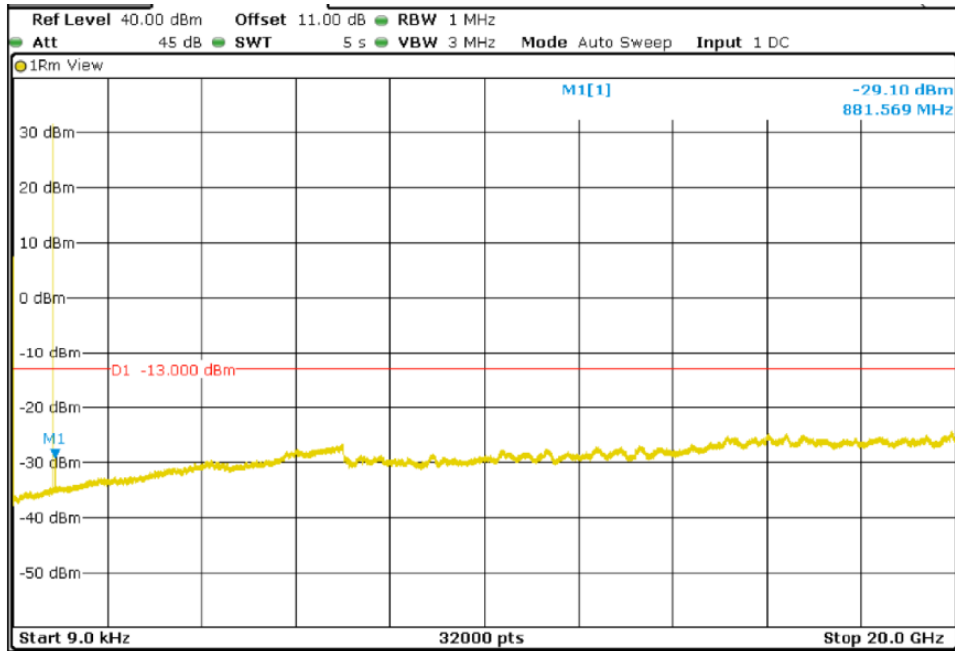
TEST RESULTS (Cont):

LTE QPSK MODULATION. BW = 1.4MHz

Lowest Channel

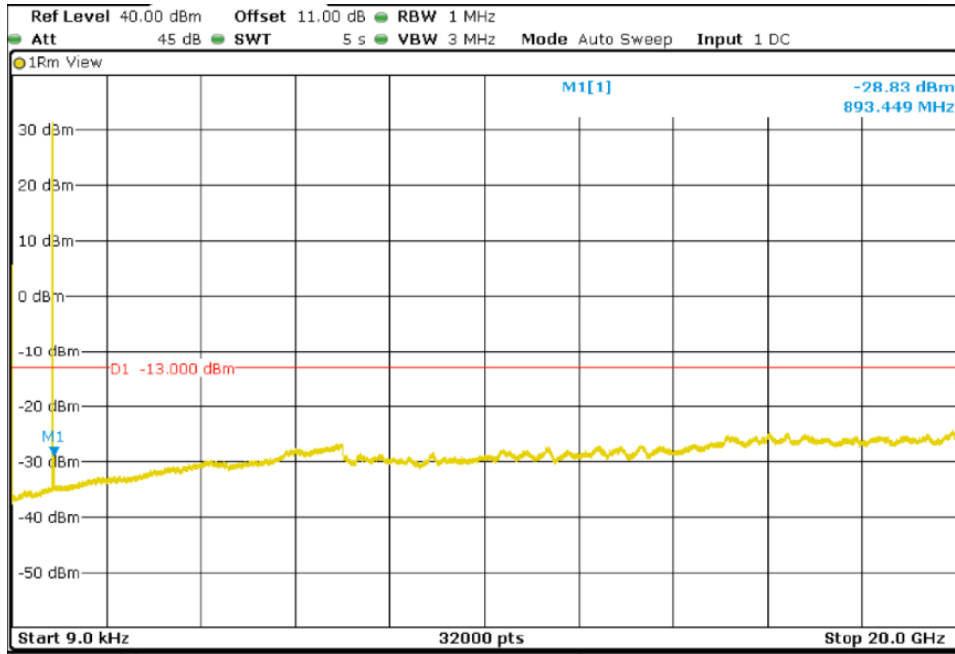


Middle Channel



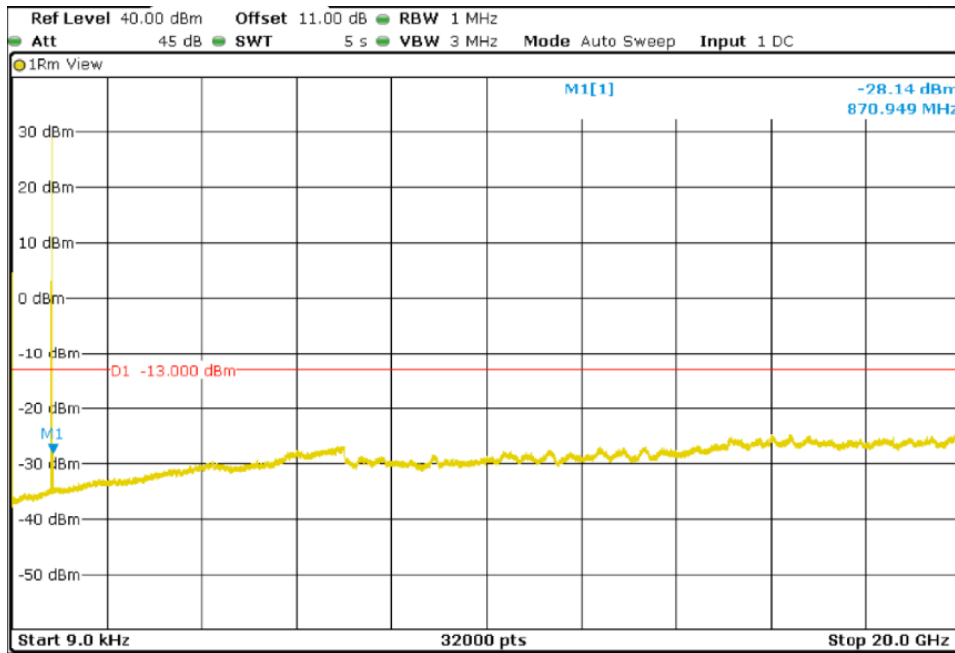
TEST RESULTS (Cont):

Highest Channel



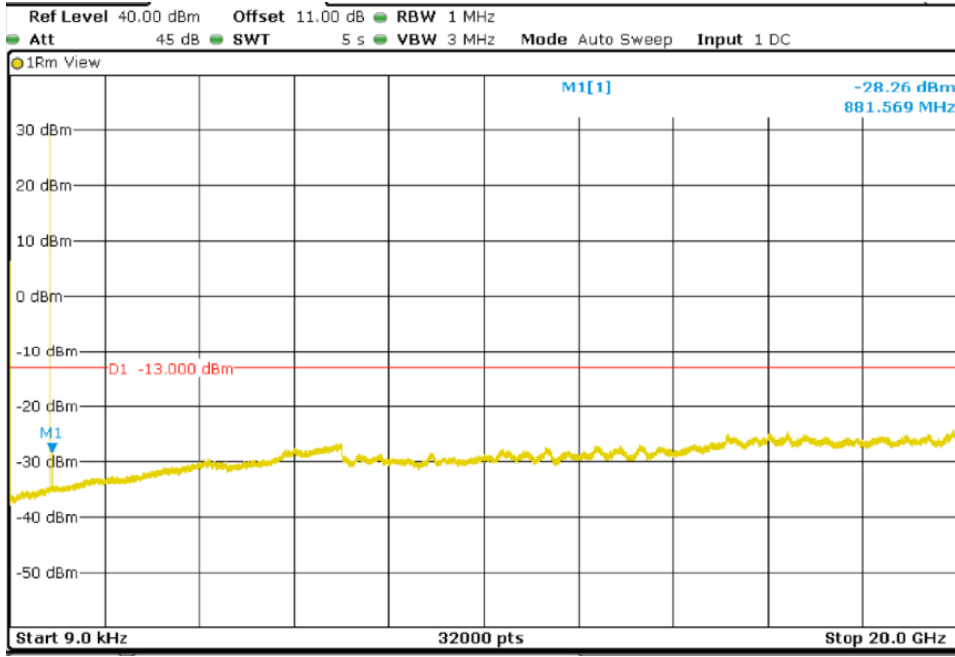
LTE QPSK MODULATION. BW = 3 MHz

Lowest Channel

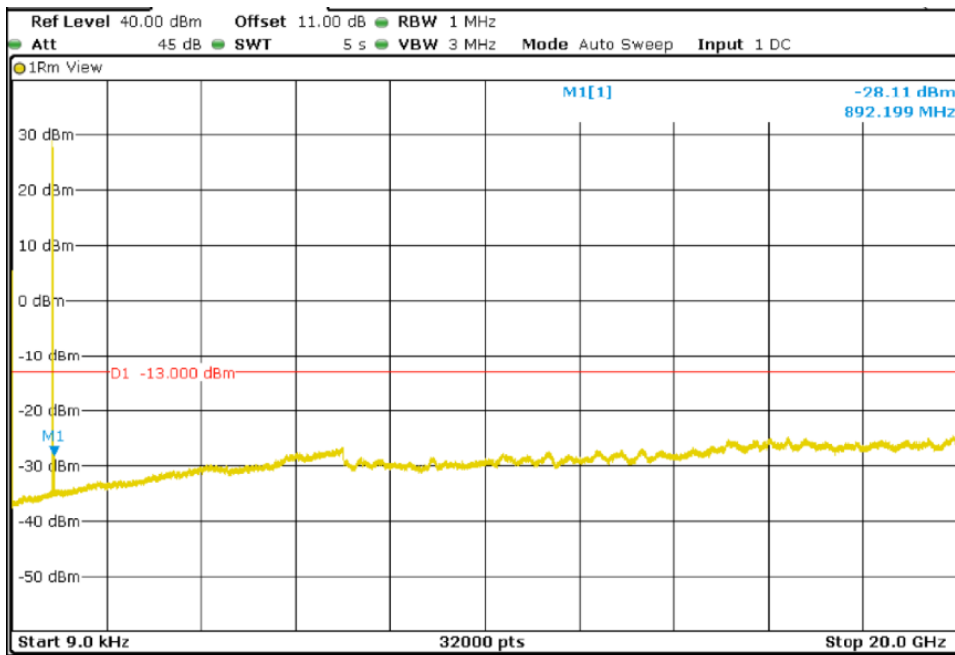


TEST RESULTS (Cont):

Middle Channel



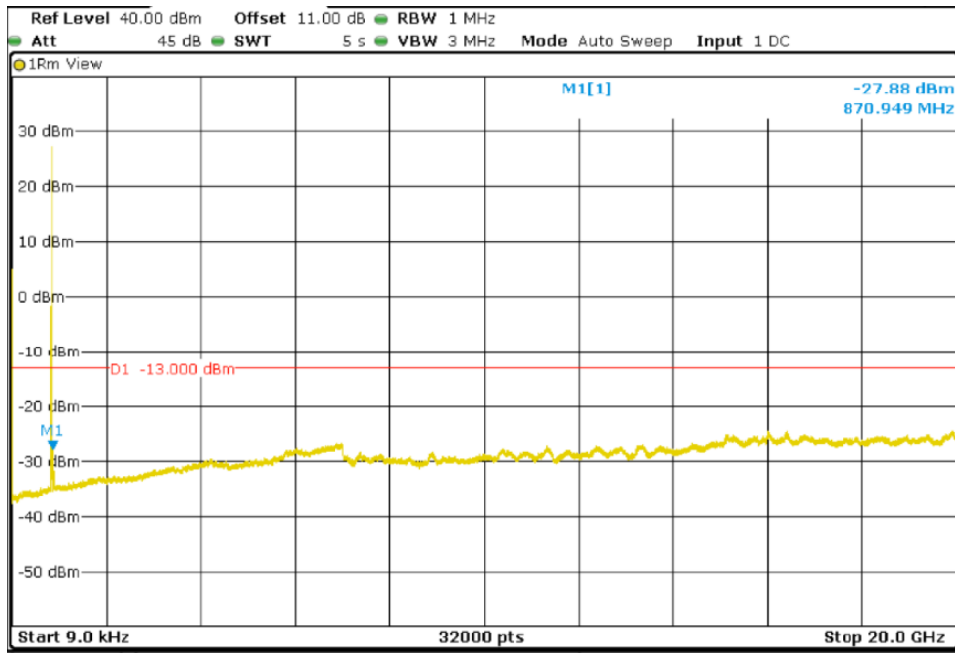
Highest Channel



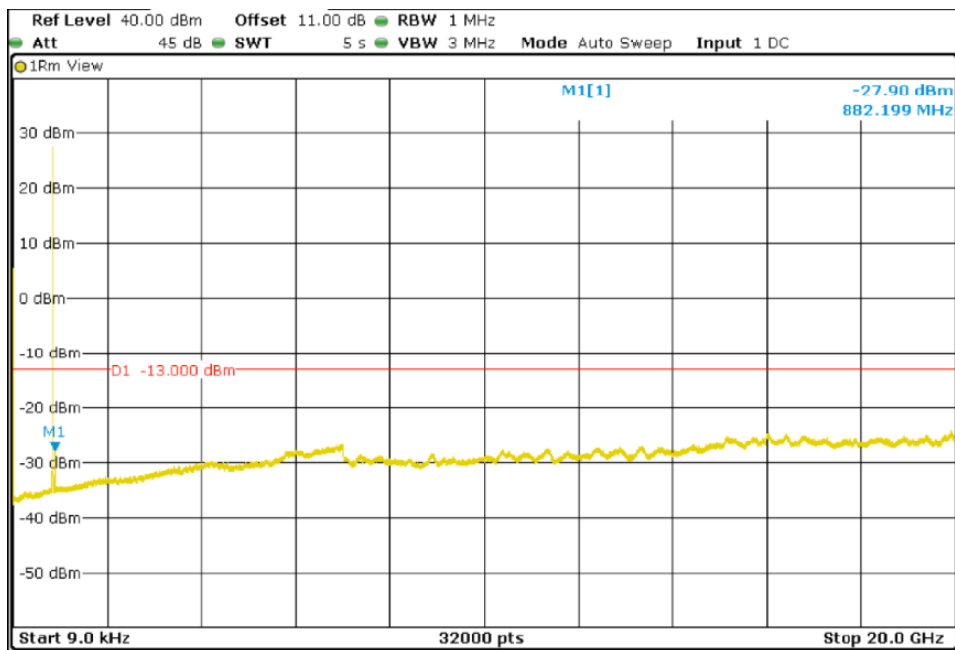
TEST RESULTS (Cont):

LTE QPSK MODULATION. BW = 5 MHz

Lowest Channel

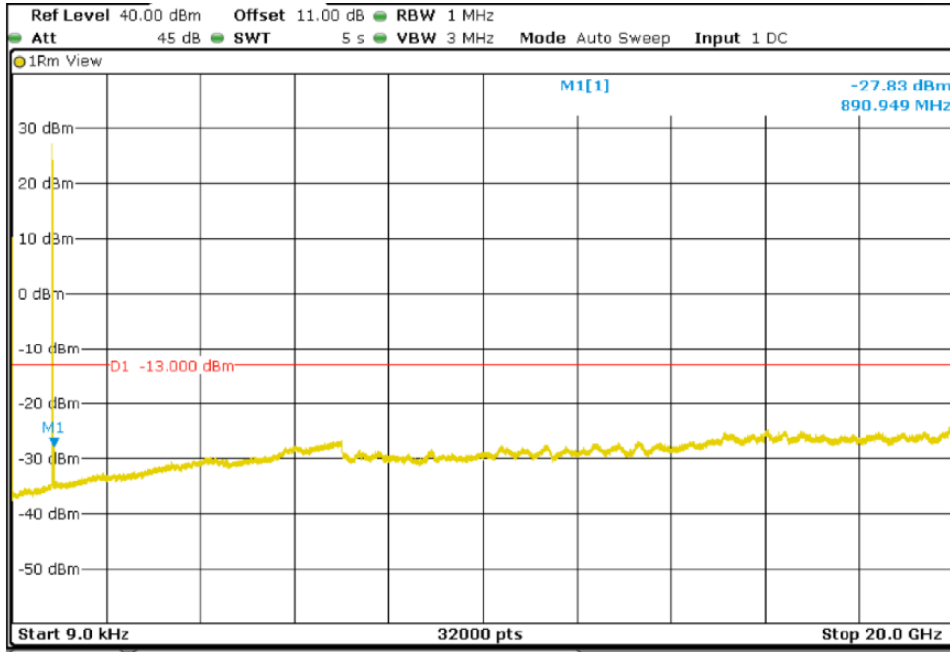


Middle Channel



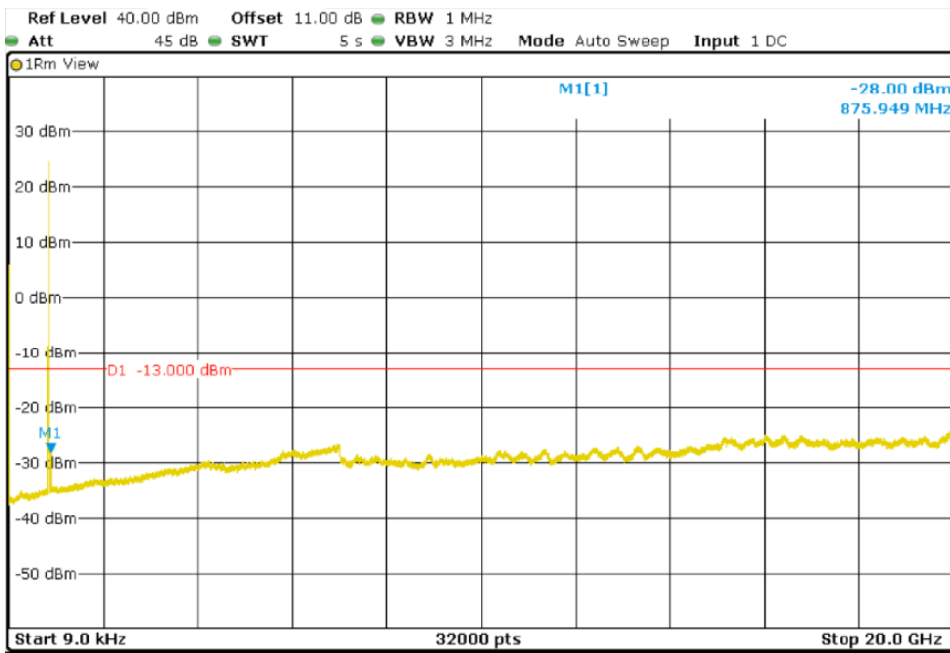
TEST RESULTS (Cont):

Highest Channel



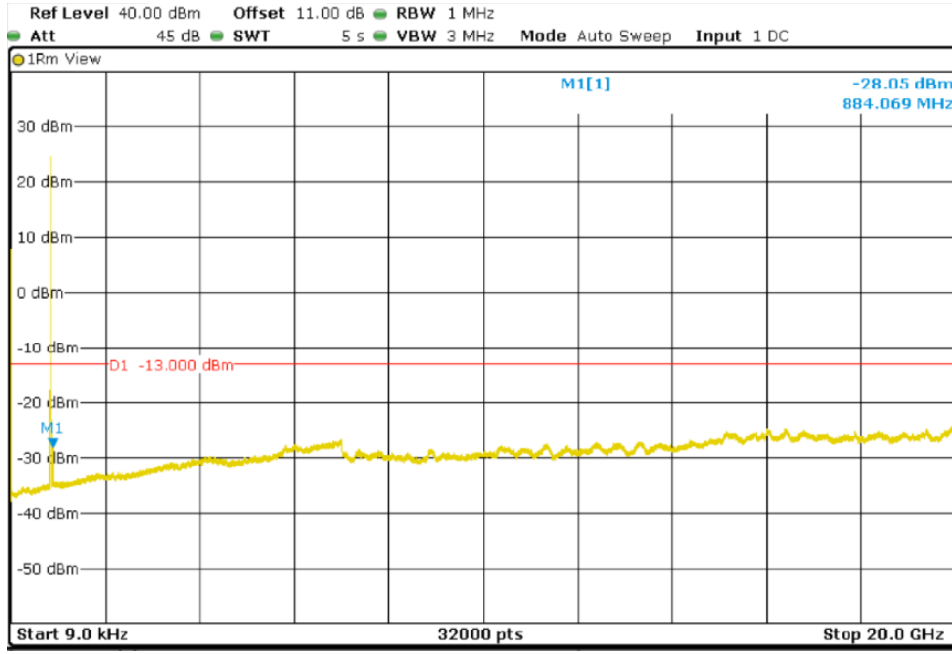
LTE QPSK MODULATION. BW = 10 MHz

Lowest Channel

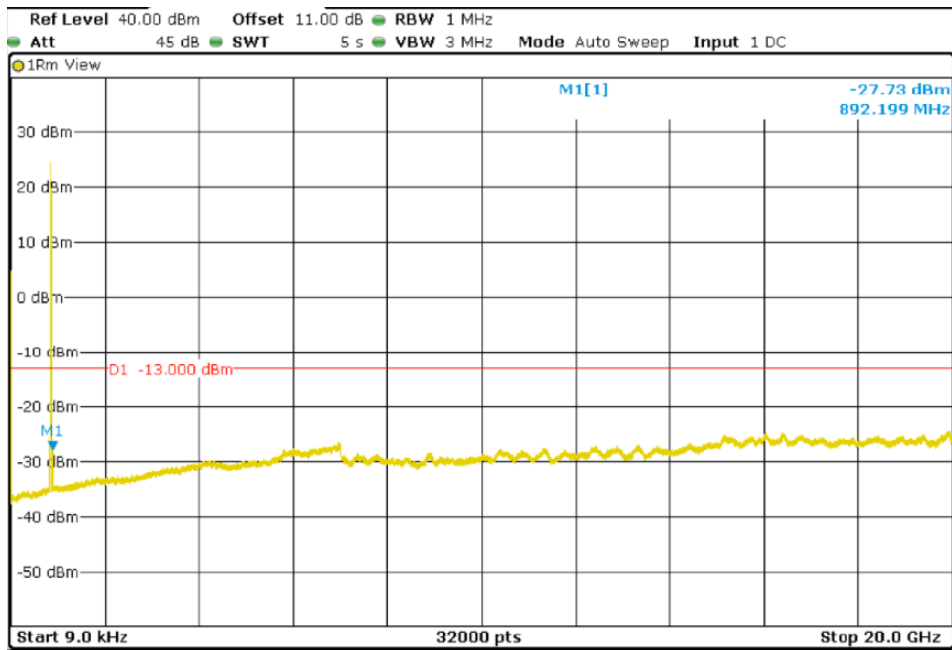


TEST RESULTS (Cont):

Middle Channel



Highest Channel



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#02
TEST RESULTS:	PASS

Frequency range 9 kHz – 18 GHz

GPRS MODULATION.

Lowest Channel

No spurious signal was found at less than 20 dB respect to the limit in the frequency range.

Middle Channel

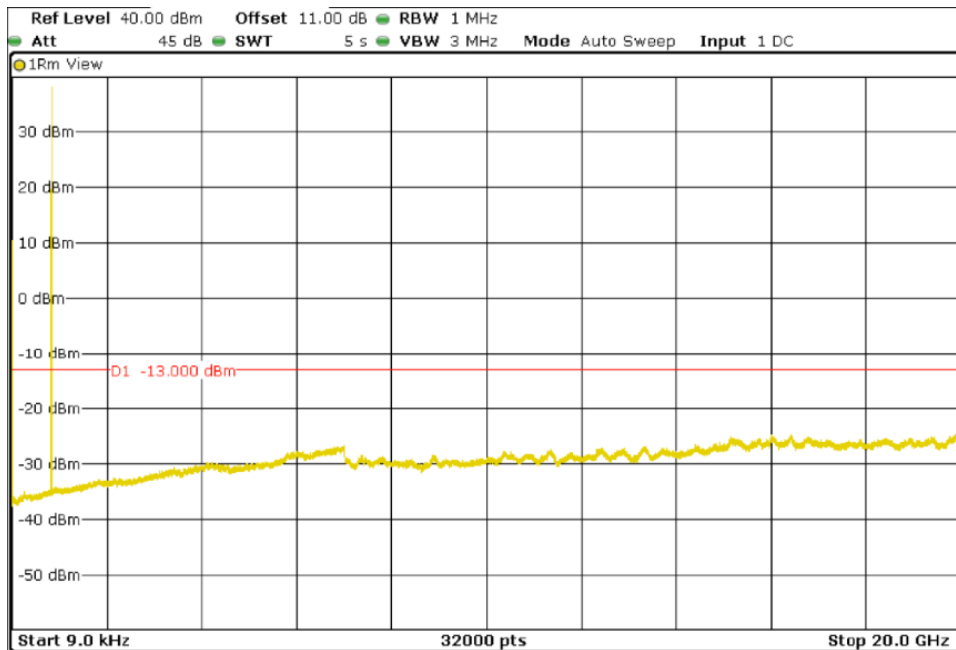
No spurious signal was found at less than 20 dB respect to the limit in the frequency range.

Highest Channel

No spurious signal was found at less than 20 dB respect to the limit in the frequency range.

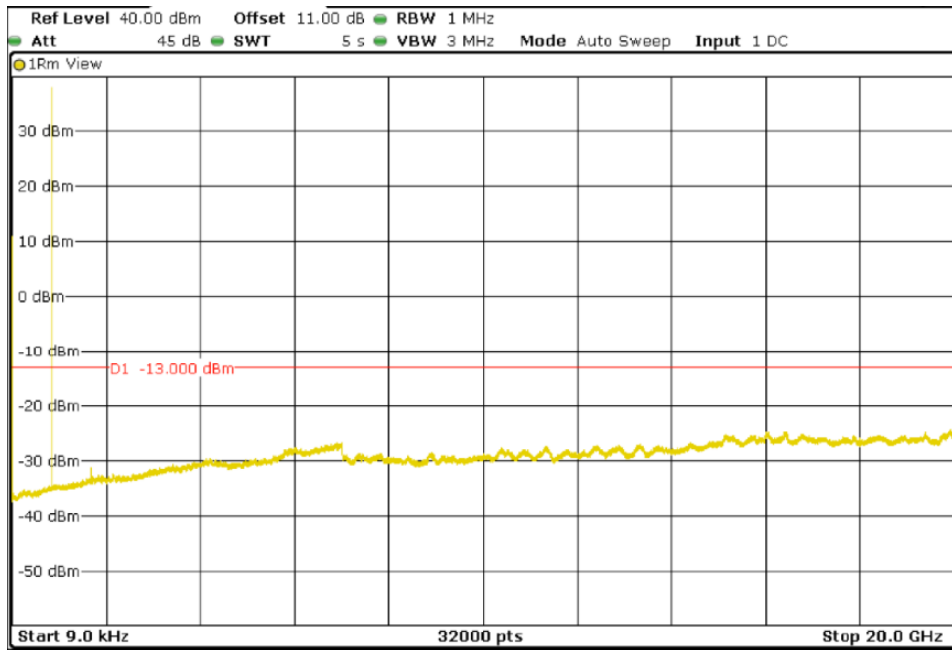
GPRS MODULATION.

Lowest Channel

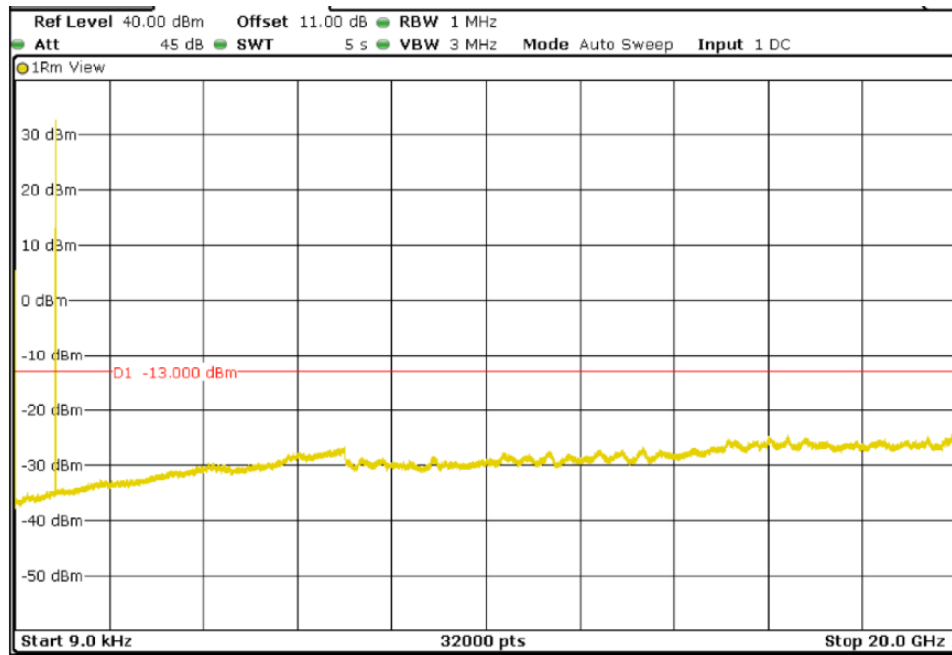


TEST RESULTS (Cont):

Middle Channel



Highest Channel



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#03
TEST RESULTS:	PASS

Frequency range 9 kHz – 18 GHz

WCDMA MODULATION.

Lowest Channel

Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
871.56	-26.14	< ± 1.20

Middle Channel

Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
882.19	-25.52	< ± 1.20

Highest Channel

Spurious frequency (MHz)	Level (dBm)	Measurement uncertainty (dB)
890.94	-26.12	< ± 1.20

WCDMA MODULATION.

Lowest Channel

