



SDT 201 UB ARK 6 Spectrum Measurements

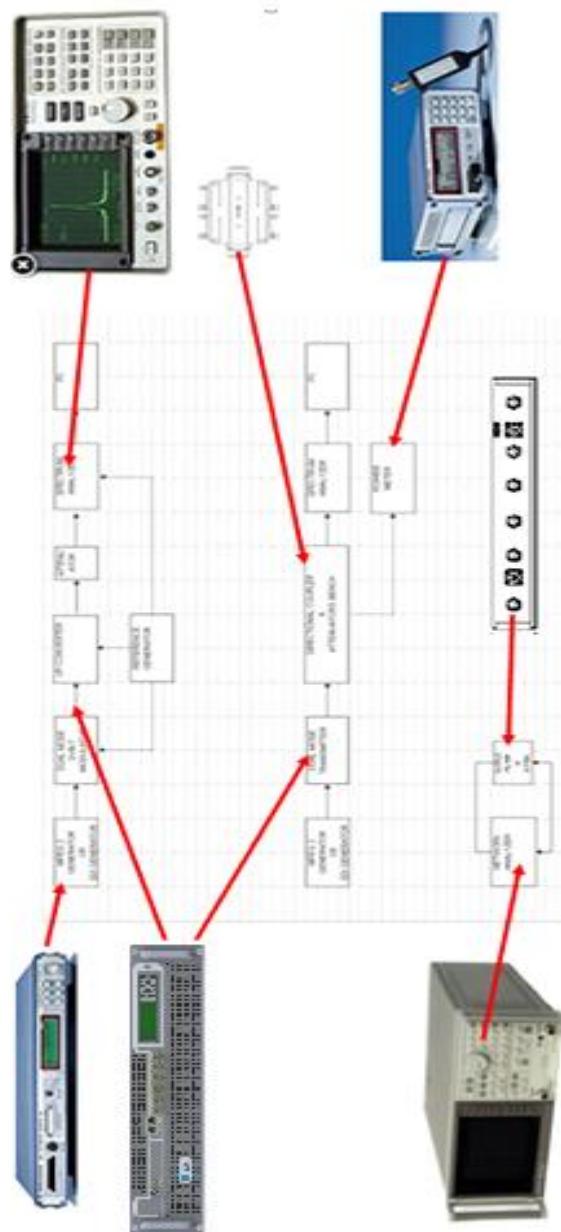
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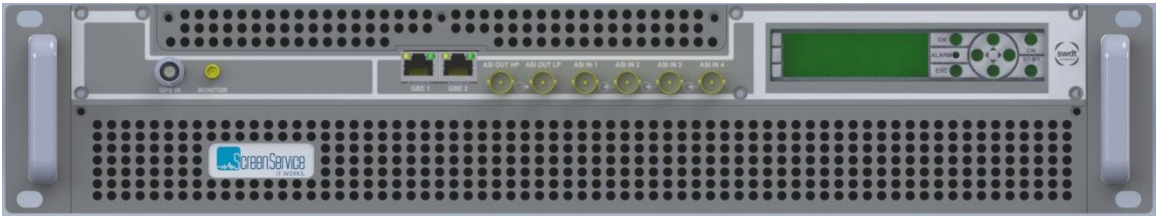
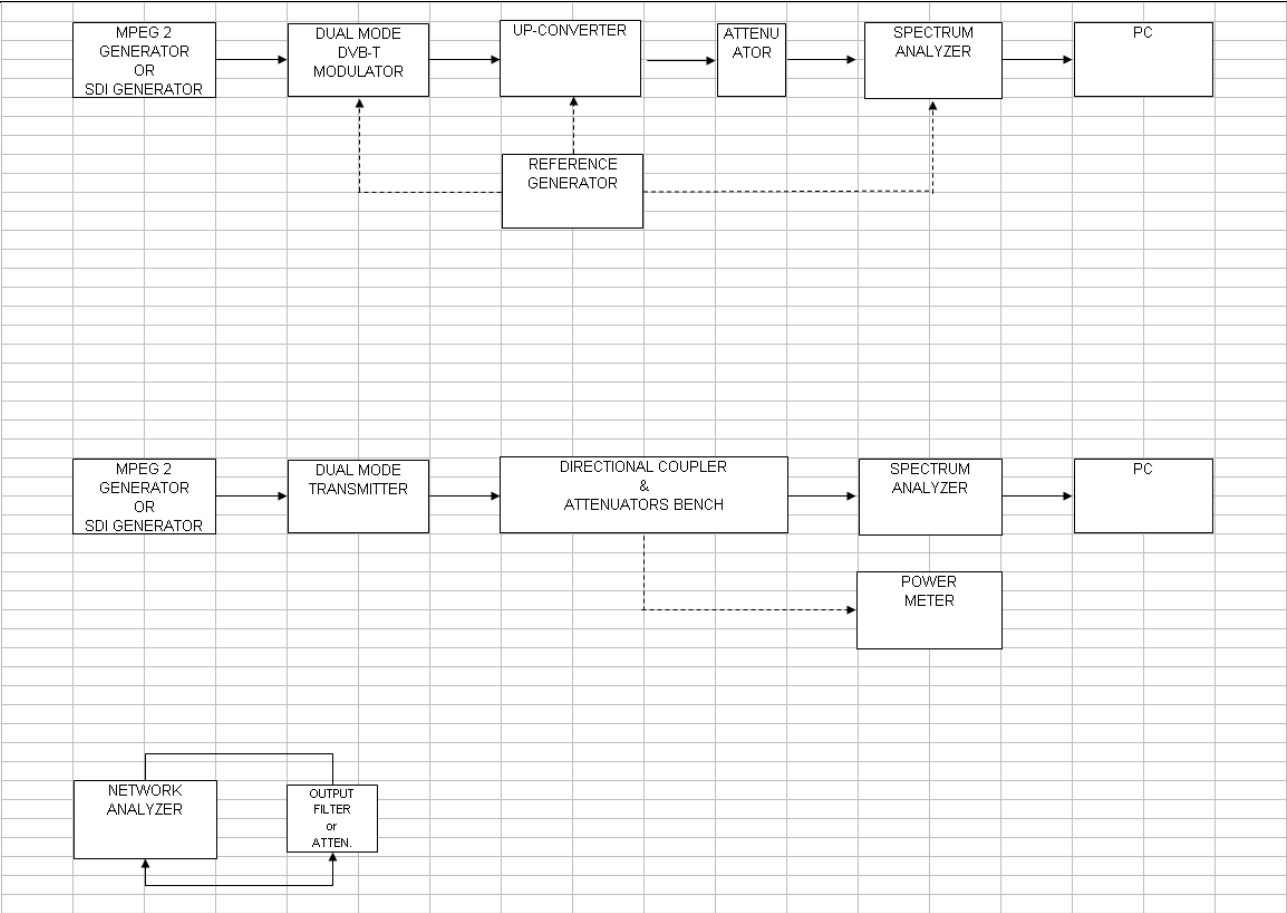
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1.1 PURPOSE

The document purpose is to give the sufficient and necessary information TO MATCH THE 2.1057 OF THE FCC RULES:

1.2 INSTRUMENTS USED





DEVICE UNDER TEST



NETWORK ANALYSER



MPEG GENERATOR



SPECTRUM ANALYSER



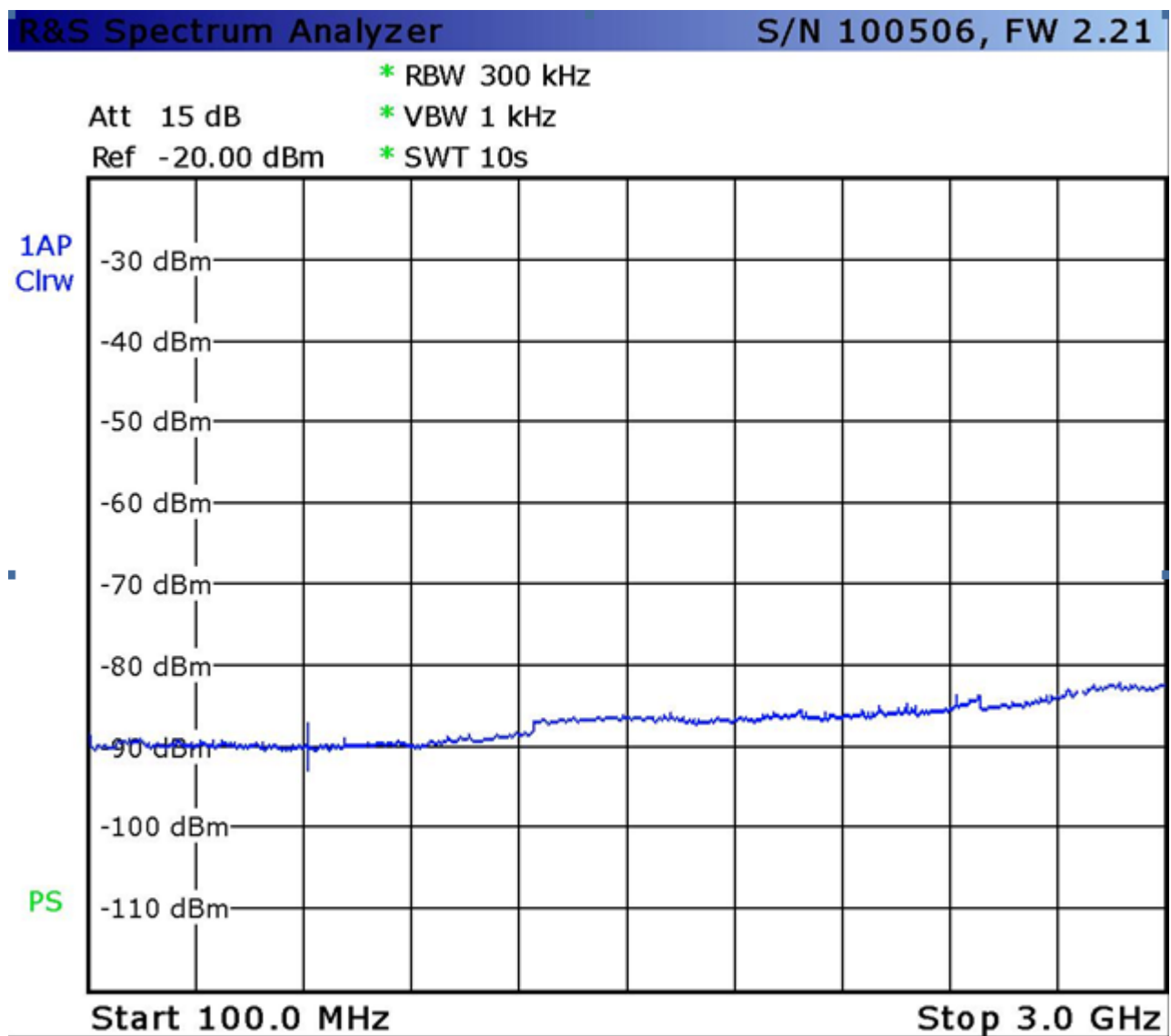
POWER METER R&S® NRVS power meter

1.3 MEASURE

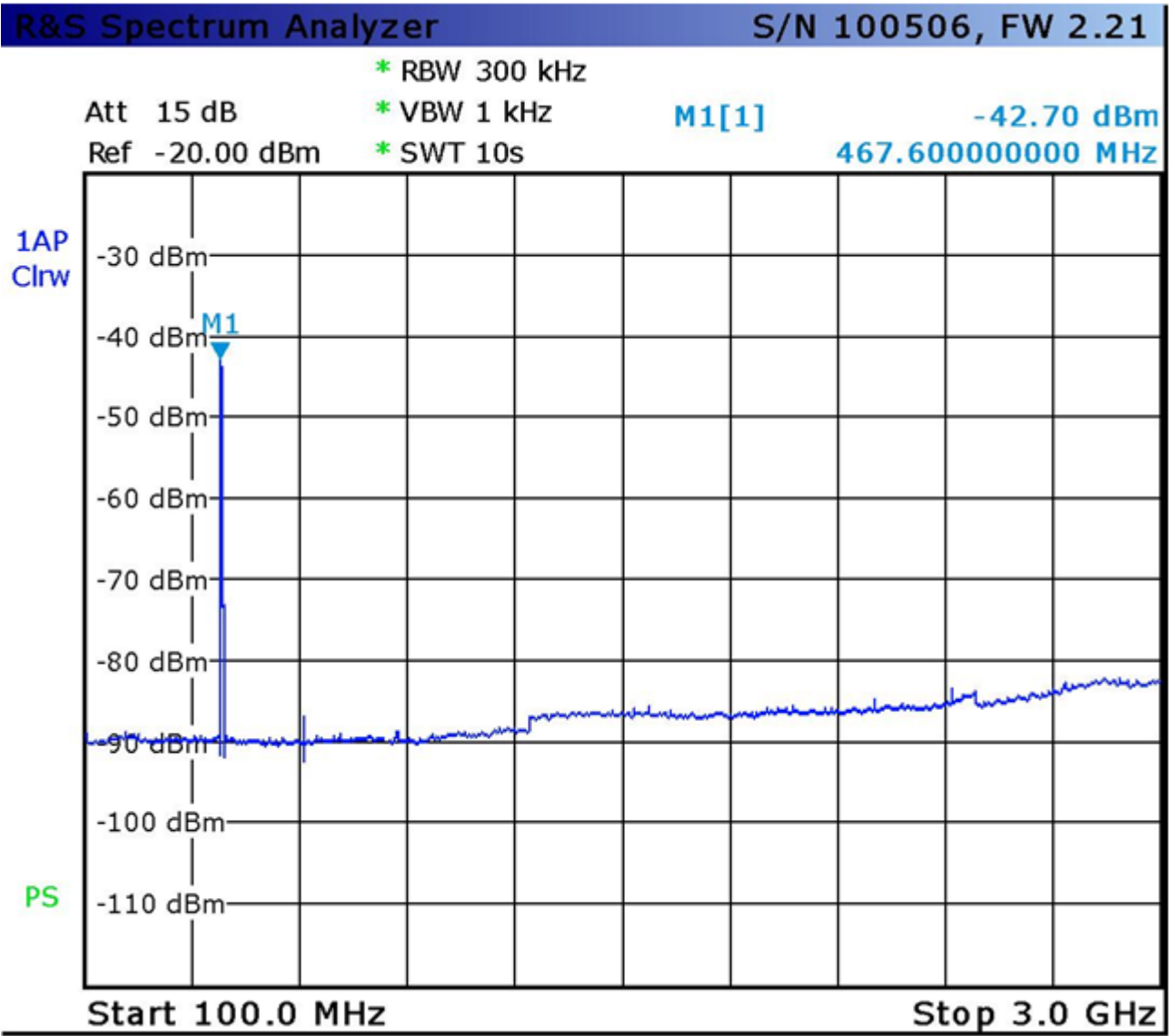
1.3.1 SPECTRUM measurement

This chapter shows the maximum power measurement details.

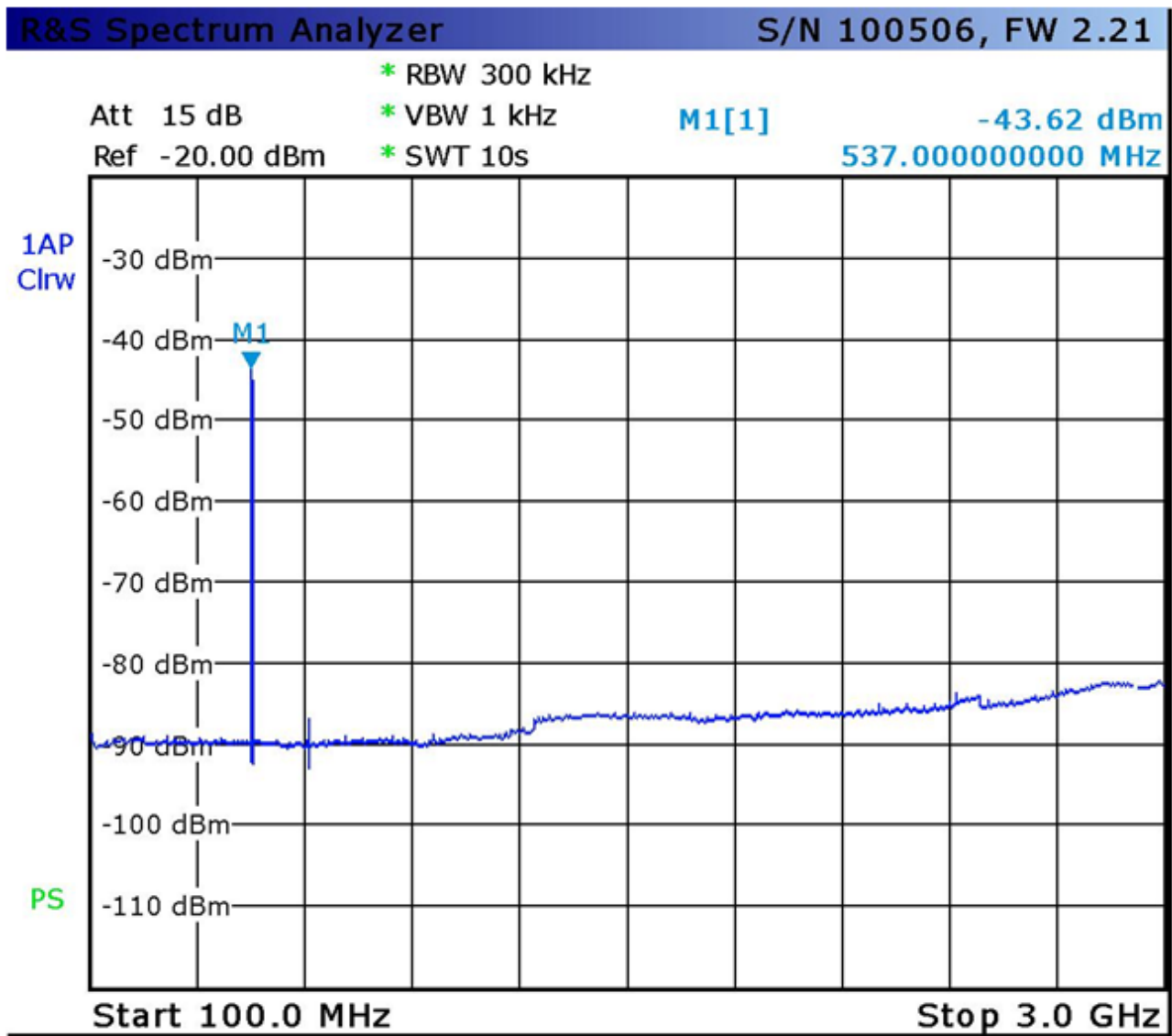
1.3.1.1 REFERENCE



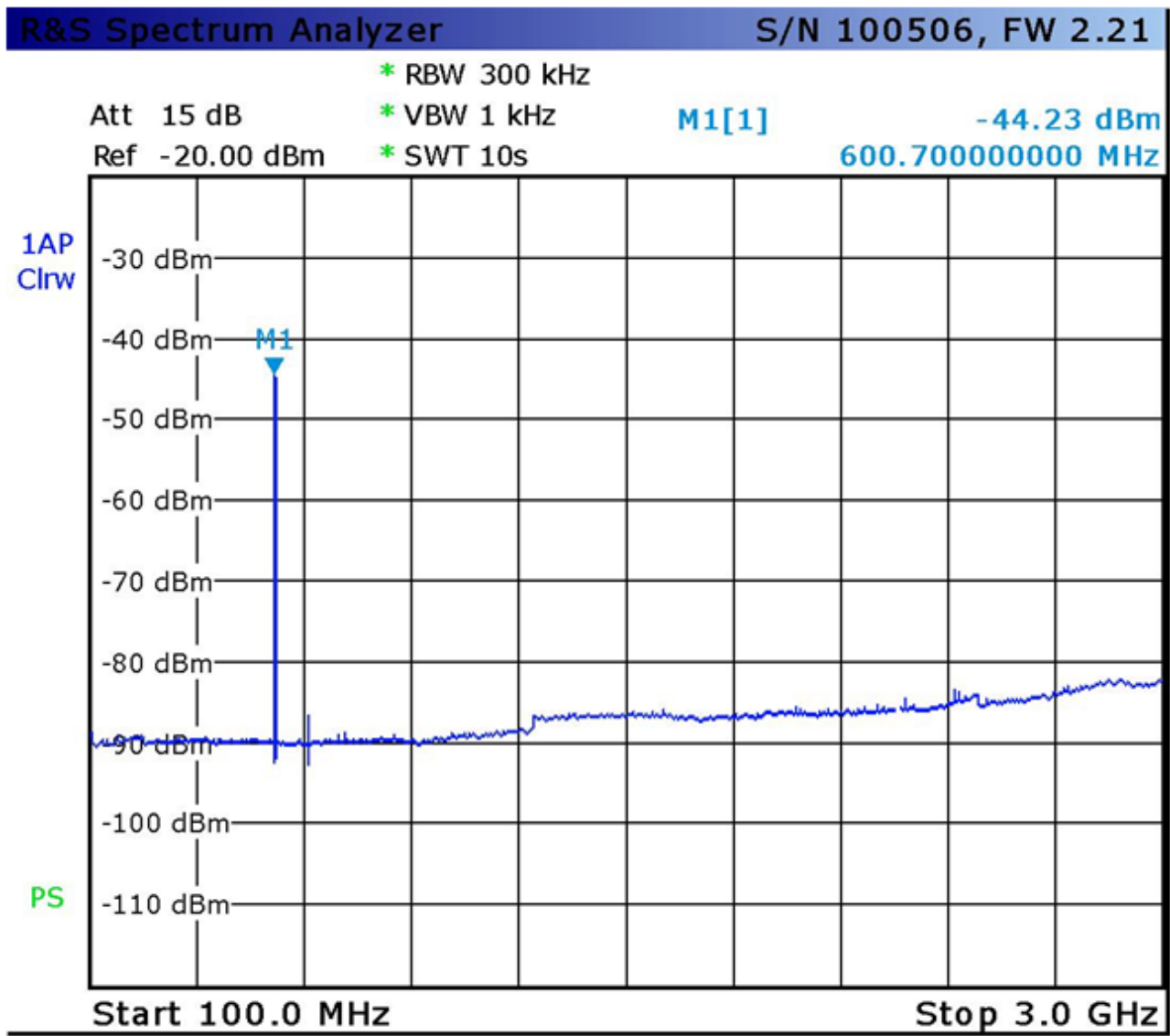
1.3.1.2 SPECTRUM at channel 14



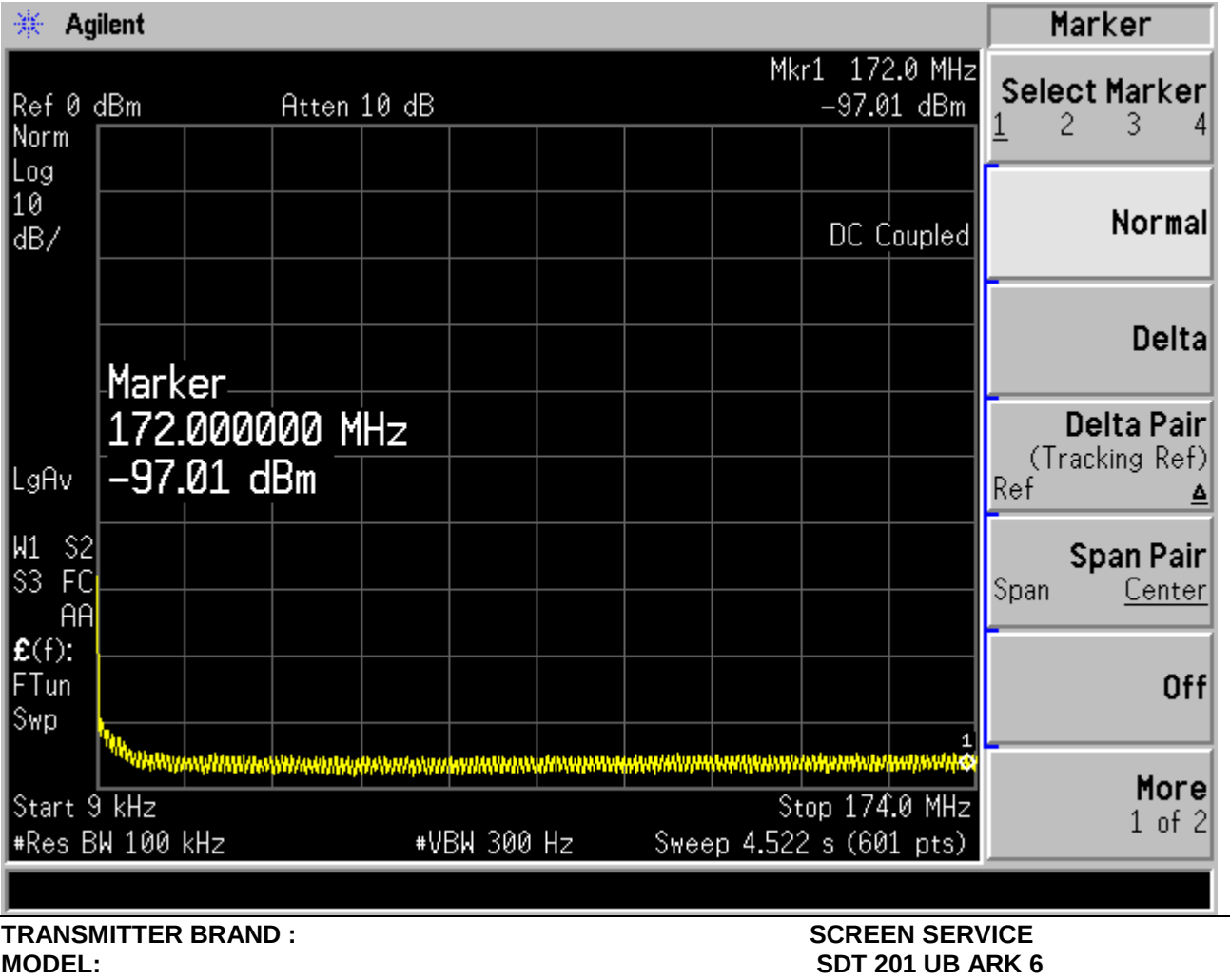
1.3.1.3 SPECTRUM at channel 25



1.3.1.4 SPECTRUM at channel 36



1.3.1.5 HARMONIC DETECTION



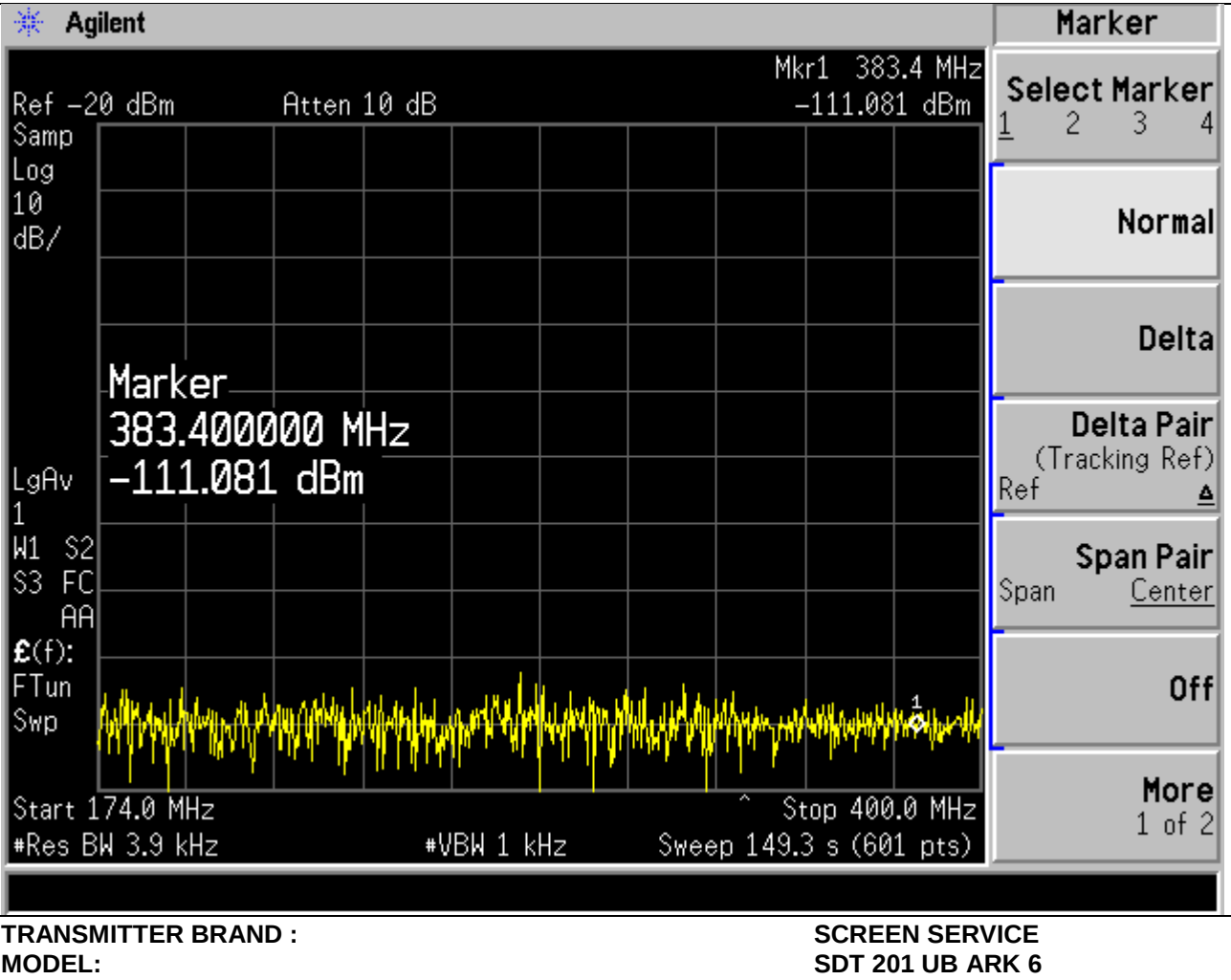
OUTPUT POWER MEASURE:

DIGITAL 20.1 W rms

SPURIOUS EMISSION

MEASURE / LIMIT [dBm]:

N.D. / -36

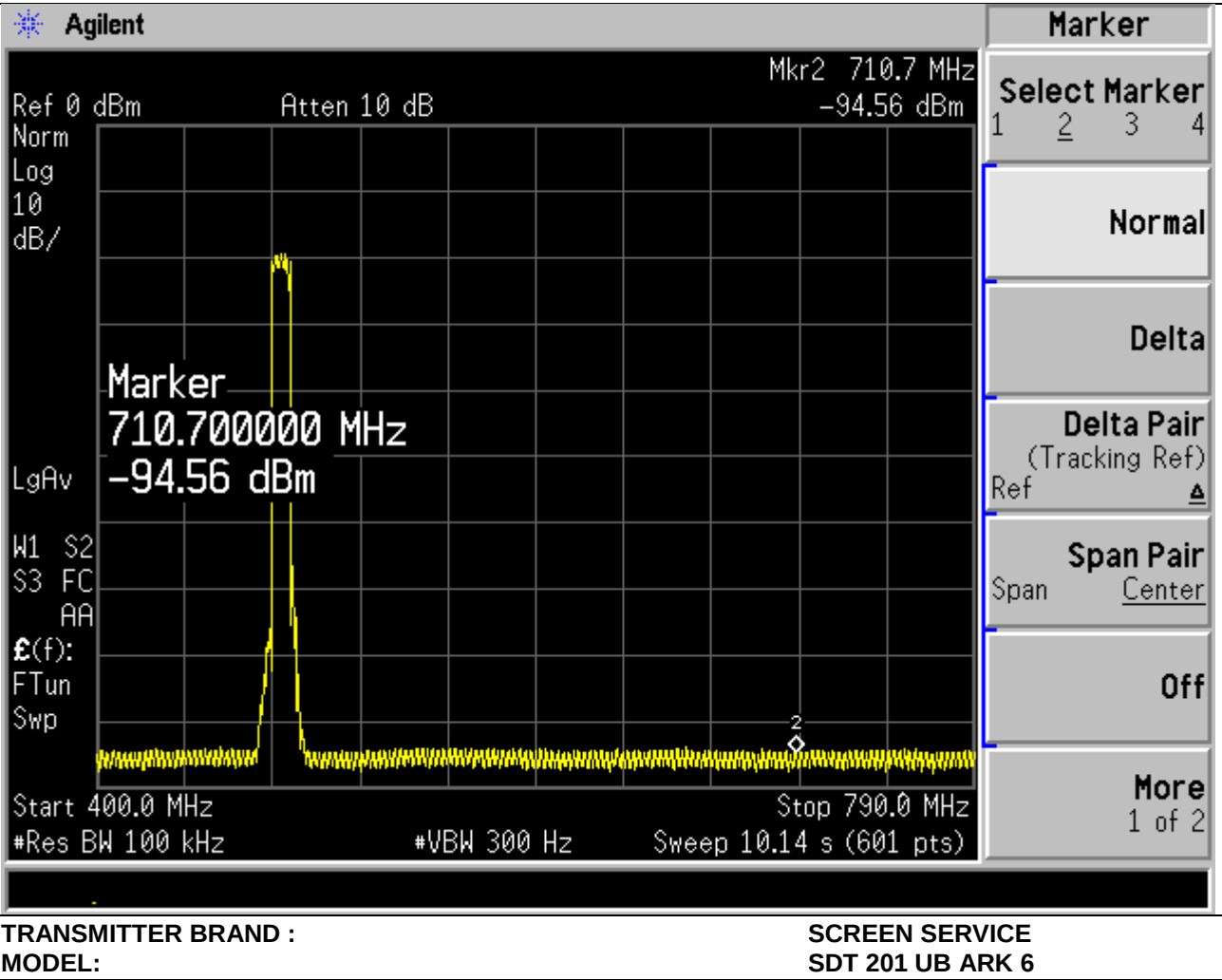


OUTPUT POWER MEASURE:

DIGITAL 20.1 W rms

SPURIOUS EMISSION
MEASURE / LIMIT [dBm]:

N.D. / -66



OUTPUT POWER MEASURE:

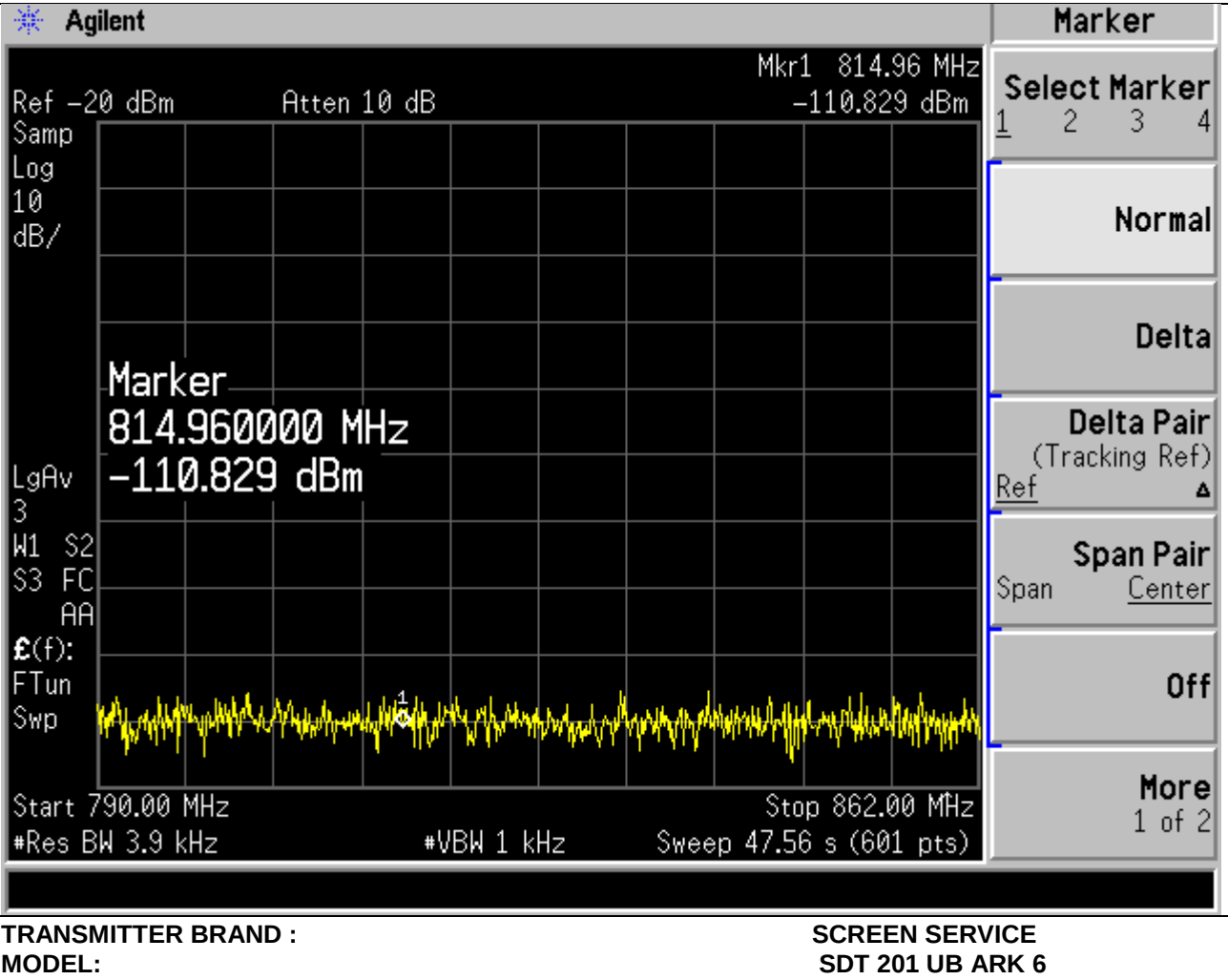
DIGITAL 20.1 W rms

SPURIOUS EMISSION

MEASURE / LIMIT [dBm]:

N.D. / -36

The REFERENCE LEVEL 0 dBm corrispond to the equipment output power nominal level.



OUTPUT POWER MEASURE:

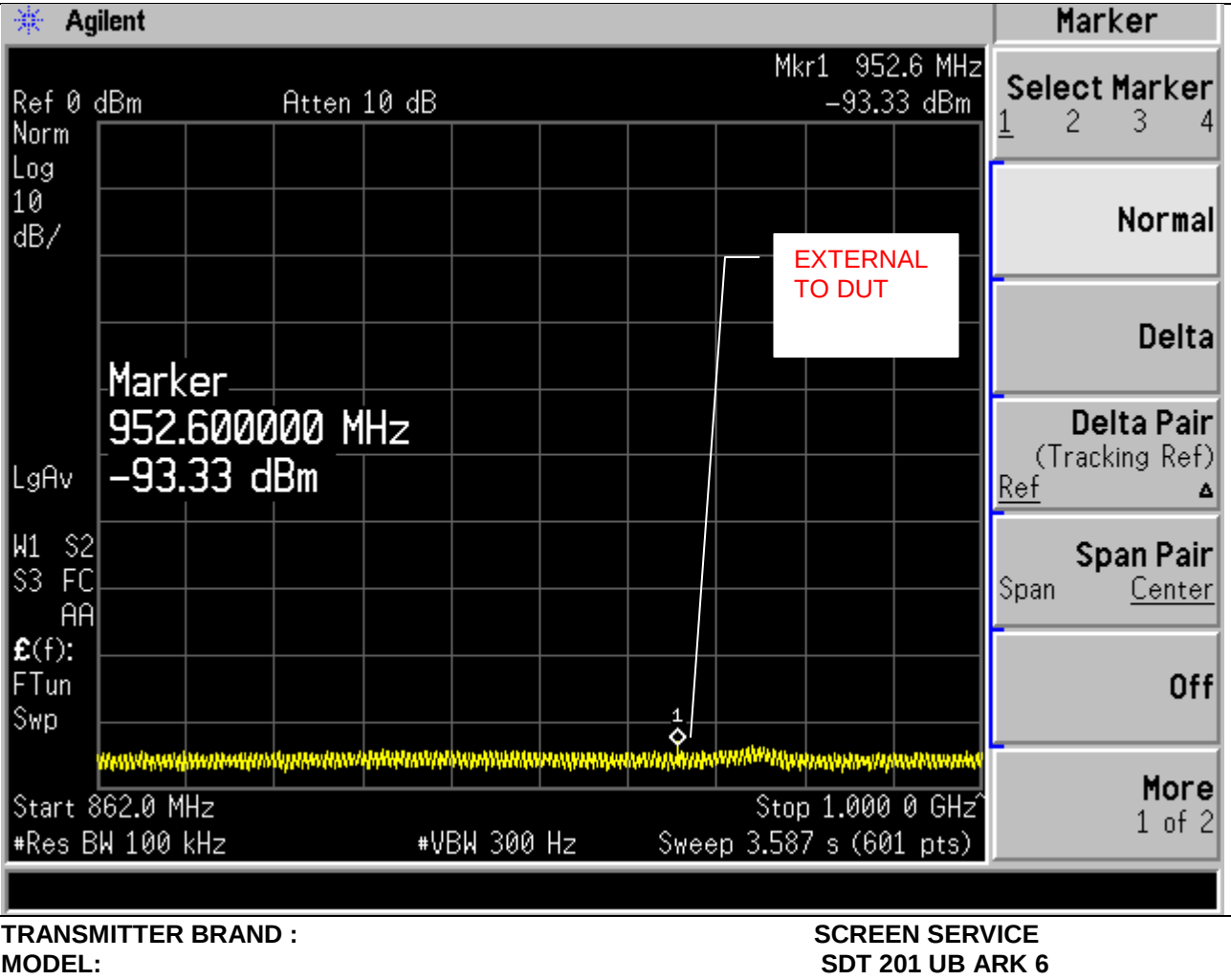
DIGITAL 20.1 W rms

SPURIOUS EMISSION

MEASURE / LIMIT [dBm]:

N.D. / -60

The REFERENCE LEVEL -20 dBm has been used to have the necessary reading dynamic



OUTPUT POWER MEASURE:

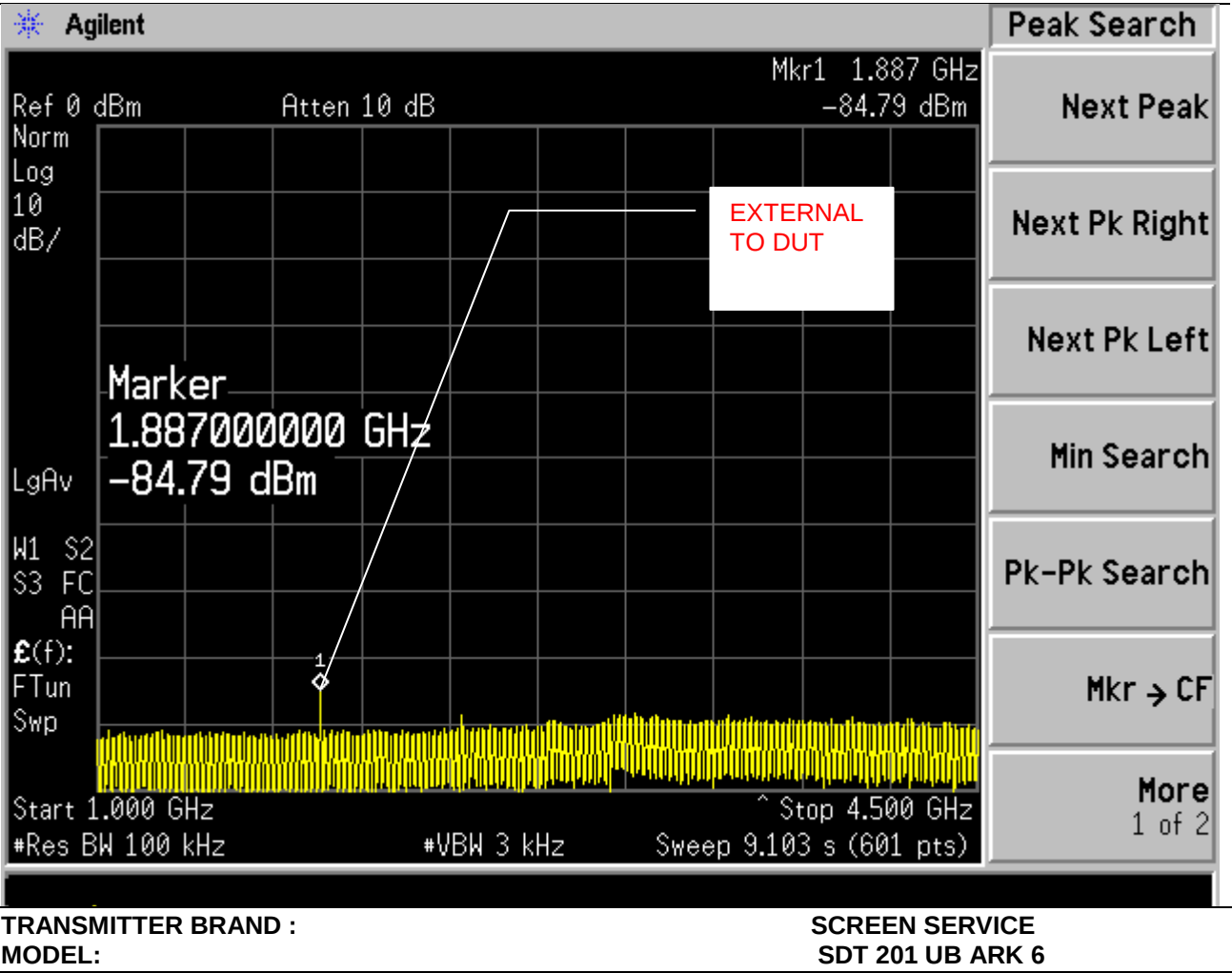
DIGITAL 20.1 W rms

SPURIOUS EMISSION

MEASURE / LIMIT [dBm]:

N.D. / -36

The REFERENCE LEVEL 0 dBm correspond to the equipment output power nominal level.



OUTPUT POWER MEASURE:

DIGITAL 20.1 W rms

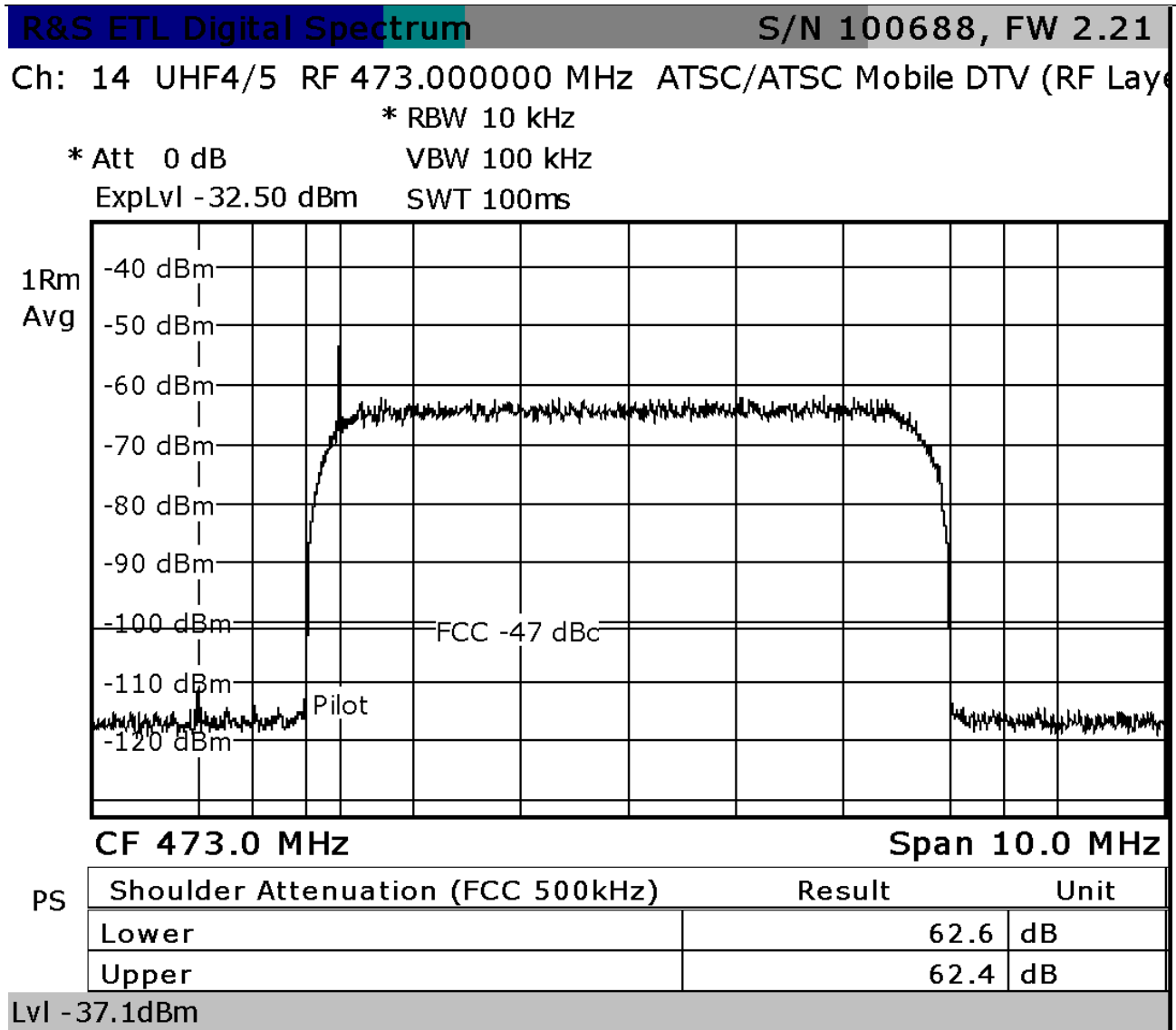
SPURIOUS EMISSION
MEASURE / LIMIT [dBm]:

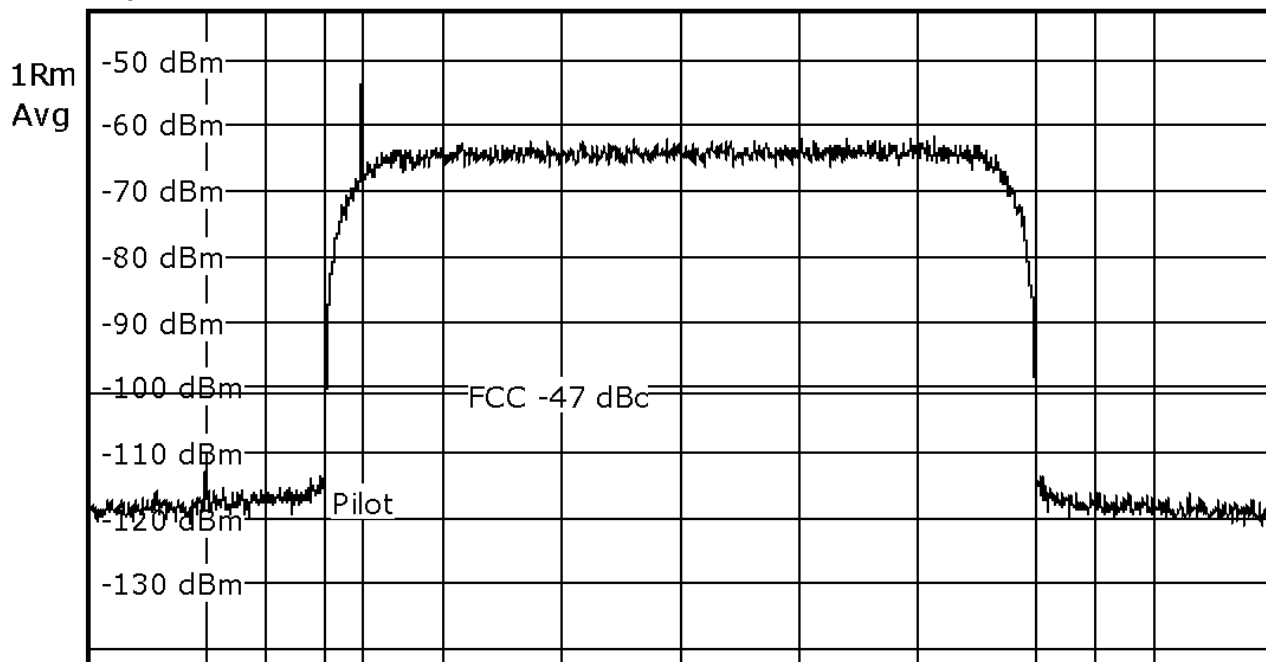
N.D. / -30

The REFERENCE LEVEL 0 dBm correspond to the equipment output power nominal level.

1.3.1 OCCUPIED BANDWIDTH

THE PICTURES BELOW GIVES THE EVIDENCE OF HE SPECTUM OCCUPANCY AS PER 2.1049 FCC REQUIREMENTS



R&S ETL Digital Spectrum **S/N 100688, FW 2.21**
Ch: 25 UHF4/5 RF 539.000000 MHz ATSC/ATSC Mobile DTV (RF Laye
*** RBW 10 kHz**
*** Att 5 dB**
VBW 100 kHz
ExpLvl -42.50 dBm
SWT 100ms

CF 539.0 MHz
Span 10.0 MHz

PSPA	Shoulder Attenuation (FCC 500kHz)		Result	Unit
	Lower		62.8	dB
	Upper		63.3	dB

Lvl -37.1dBm

