

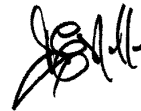
PAGE NO. 34 of 54. Amended June 18, 2002
NAME OF TEST: Transient Frequency Behavior
SPECIFICATION: 47 CFR 90.214
GUIDE: ANSI/TIA/EIA-603-1992, Paragraph 2.2.19
TEST EQUIPMENT: As per attached page

MEASUREMENT PROCEDURE

1. The EUT was setup as shown on the attached page, following TIA/EIA-603 steps a, b, and c as a *guide*.
2. The transmitter was turned on.
3. Sufficient attenuation was provided so that the transmitter carrier level measured at the output of the combiner was 40 dB below the maximum input level of the test receiver. This level was recorded as step f.
4. The transmitter was turned off.
5. An RF signal generator (1) modulated with a 1 kHz tone at either 25, 12.5, or 6.25 kHz deviation, and set to the same frequency as the assigned transmitter frequency, (2) was adjusted to a level -20 dB below the level recorded for step f, as measured at the output of the combiner. This level was then fixed for the remainder of the test and is recorded at step h.
6. The oscilloscope was setup using TIA/EIA-603 steps j and k as a guide, and to either 10 ms/div (UHF) or 5 ms/div (VHF).
7. The 30 dB attenuator was removed, the transmitter was turned on, and the level of the carrier at the output of the combiner was recorded as step l.
8. The carrier on-time as referenced in TIA/EIA-603 steps m, n, and o was captured and plotted. The carrier off-time as referenced in TIA/EIA-603 steps p, q, r, and s was captured and plotted.

LEVELS MEASURED:

<u>step f</u> , dBm	= -16.4
<u>step h</u> , dBm	= -47.2
<u>step l</u> , dBm	= 3.4

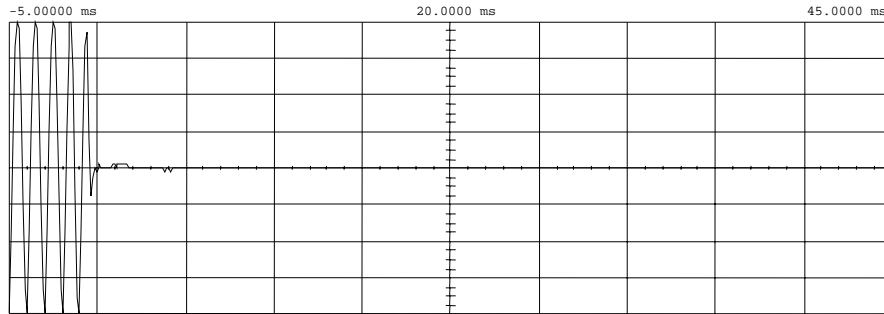


PERFORMED BY:

Doug Noble, B.A.S. E.E.T.

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NAME OF TEST: Transient Frequency Behavior
 g0260019: 2002-Jun-17 Mon 11:07:00
 STATE: 2:High Power



Main	Timebase 5.00 ms/div	Delay/Pos 20.0000 ms	Reference Center	Mode Repetitive
Channel 1	Sensitivity 550 mV/div	Offset 0.00000 V	Probe 1.000 :1	Coupling dc (1M ohm)

Trigger mode : Edge
 On Negative Edge Of Chan2
 Trigger Level
 Chan2 = -1.500 mV (noise reject ON)
 Holdoff = 40.000 ns

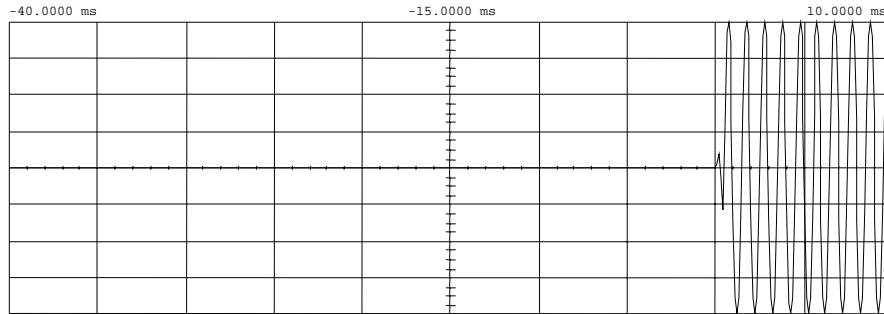
POWER :	HIGH
MODULATION :	Ref Gen=25 kHz Deviation
DESCRIPTION :	CARRIER ON TIME

PERFORMED BY:

Doug Noble, B.A.S. E.E.T.

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NAME OF TEST: Transient Frequency Behavior
g0260020: 2002-Jun-17 Mon 11:08:00
STATE: 2:High Power



Main	Timebase 5.00 ms/div	Delay/Pos -15.0000 ms	Reference Center	Mode Repetitive
Channel 1	Sensitivity 550 mV/div	Offset 0.00000 V	Probe 1.000 :1	Coupling dc (1M ohm)

Trigger mode : Edge
 On Positive Edge Of Chan2
 Trigger Level
 Chan2 = -175.000 mV (noise reject ON)
 Holdoff = 40.000 ns

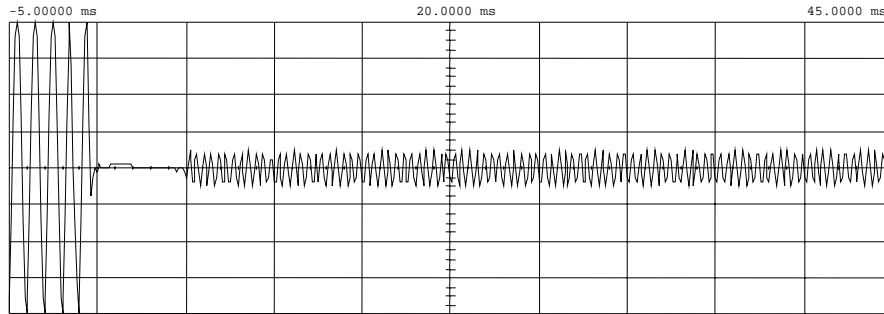
POWER :	HIGH
MODULATION :	Ref Gen=25 kHz Deviation
DESCRIPTION :	CARRIER OFF TIME

PERFORMED BY:

Doug Noble, B.A.S. E.E.T.

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NAME OF TEST: Transient Frequency Behavior
g0260021: 2002-Jun-17 Mon 11:12:00
STATE: 2:High Power



Main	Timebase 5.00 ms/div	Delay/Pos 20.0000 ms	Reference Center	Mode Repetitive
Channel 1	Sensitivity 550 mV/div	Offset 0.00000 V	Probe 1.000 :1	Coupling dc (1M ohm)

Trigger mode : Edge
On Negative Edge Of Chan2
Trigger Level
Chan2 = -1.500 mV (noise reject ON)
Holdoff = 40.000 ns

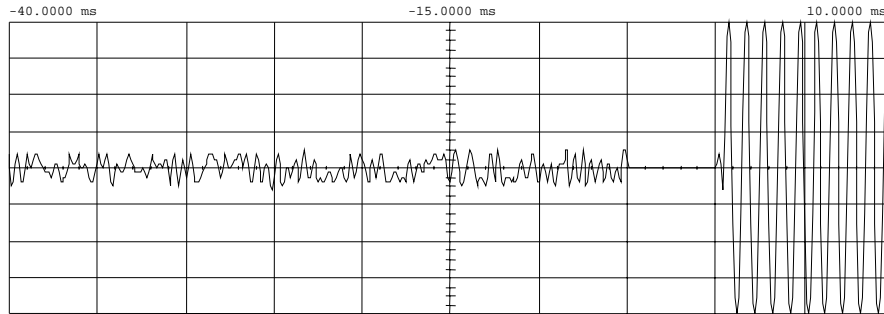
POWER :	HIGH
MODULATION :	Ref Gen=25 kHz Deviation
DESCRIPTION :	CARRIER ON TIME

PERFORMED BY:

Doug Noble, B.A.S. E.E.T.

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NAME OF TEST: Transient Frequency Behavior
g0260022: 2002-Jun-17 Mon 11:13:00
STATE: 2:High Power



Main	Timebase 5.00 ms/div	Delay/Pos -15.0000 ms	Reference Center	Mode Repetitive
Channel 1	Sensitivity 550 mV/div	Offset 0.00000 V	Probe 1.000 :1	Coupling dc (1M ohm)

Trigger mode : Edge
On Positive Edge Of Chan2
Trigger Level
Chan2 = -175.000 mV (noise reject ON)
Holdoff = 40.000 ns

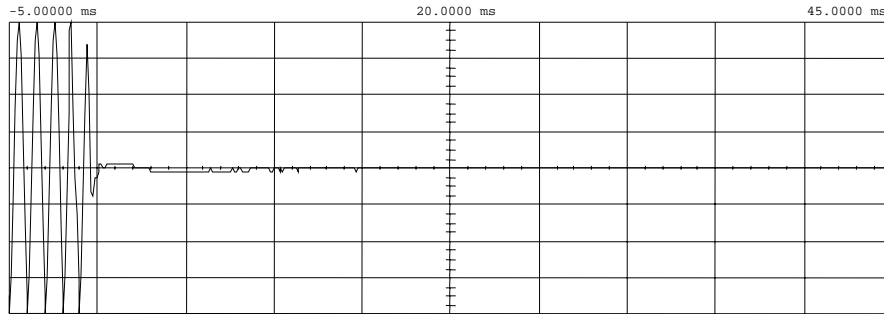
POWER :	HIGH
MODULATION :	Ref Gen=25 kHz Deviation
DESCRIPTION :	CARRIER OFF TIME

PERFORMED BY:

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NAME OF TEST: Transient Frequency Behavior
g0260023: 2002-Jun-17 Mon 11:16:00
STATE: 2:High Power



Main	Timebase 5.00 ms/div	Delay/Pos 20.0000 ms	Reference Center	Mode Repetitive
Channel 1	Sensitivity 300 mV/div	Offset 0.00000 V	Probe 1.000 :1	Coupling dc (1M ohm)

Trigger mode : Edge
 On Negative Edge Of Chan2
 Trigger Level
 Chan2 = -1.500 mV (noise reject ON)
 Holdoff = 40.000 ns

POWER :
MODULATION :
DESCRIPTION :

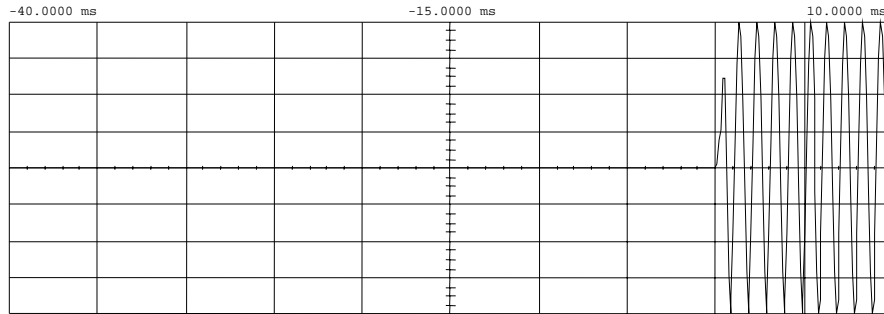
HIGH
Ref Gen=12.5 kHz Deviation
CARRIER ON TIME

PERFORMED BY:

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NAME OF TEST: Transient Frequency Behavior
g0260024: 2002-Jun-17 Mon 11:18:00
STATE: 2:High Power



Main	Timebase 5.00 ms/div	Delay/Pos -15.0000 ms	Reference Center	Mode Repetitive
Channel 1	Sensitivity 300 mV/div	Offset 0.00000 V	Probe 1.000 :1	Coupling dc (1M ohm)

Trigger mode : Edge
 On Positive Edge Of Chan2
 Trigger Level
 Chan2 = -175.000 mV (noise reject ON)
 Holdoff = 40.000 ns

POWER :
MODULATION :
DESCRIPTION :

HIGH
Ref Gen=12.5 kHz Deviation
CARRIER OFF TIME

PERFORMED BY:

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