

CDMA F Band

ATDE
<< Waveform Display (CDMA) >>

M Measure : Continuous
Storage : Normal
U Trace : Constellation

Waveform

Trace *
Format

Marker *

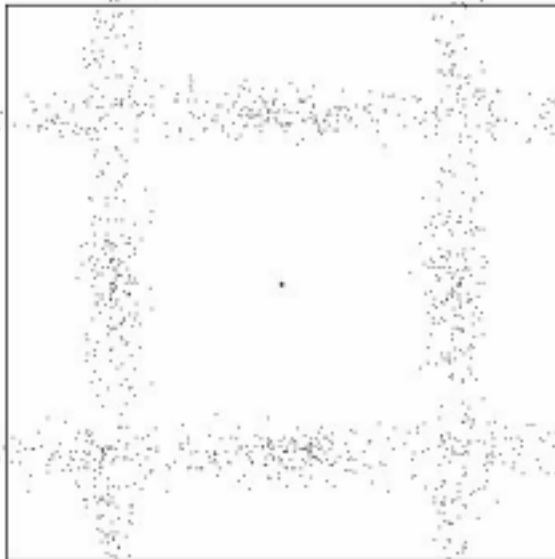
Storage *
Mode

Calibration *

Adjust
Range

Back
Screen

1



Frequency :
1.892.499.993.9 MHz
Frequency Error :
-0.006.1 kHz
 ρ : 0.99761

Channel : 1092CH Frequency : 1892.500.000MHz Level : 0dBm

1 2

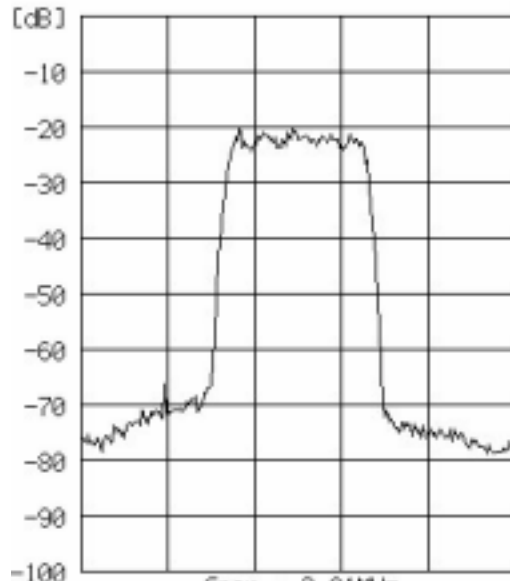
Change System Instrument Setup Change Color File Operation

Main Func
On Off

RTDE
<< Occupied Bandwidth (CDMA) >>

1
U Storage : Average (10/ 10)
Method : FFT

Occ. BW



Occ BW (99%) : 1.26 MHz

Upper Limit : 0.63 MHz

Lower Limit : -0.63 MHz

Center (Upper+Lower)/2 :
1892.500 MHz

Measure
Method *

Storage
Mode *

Calibration *

Adjust
Range

Back
Screen +

1

Span : 3.91MHz
Channel : 1092CH Frequency : 1892.500 000MHz Level : 0dBm

1 2

Change
System

Instrument
Setup

Change
Color

File
Operation

Main Func
On Off

RTDE
<< RF Power (CDMA) >>

1
U Storage : Average (10/ 10)

RF Power

Tx Power :
-2.44 dBm

Window *

Marker *

Storage
Mode *

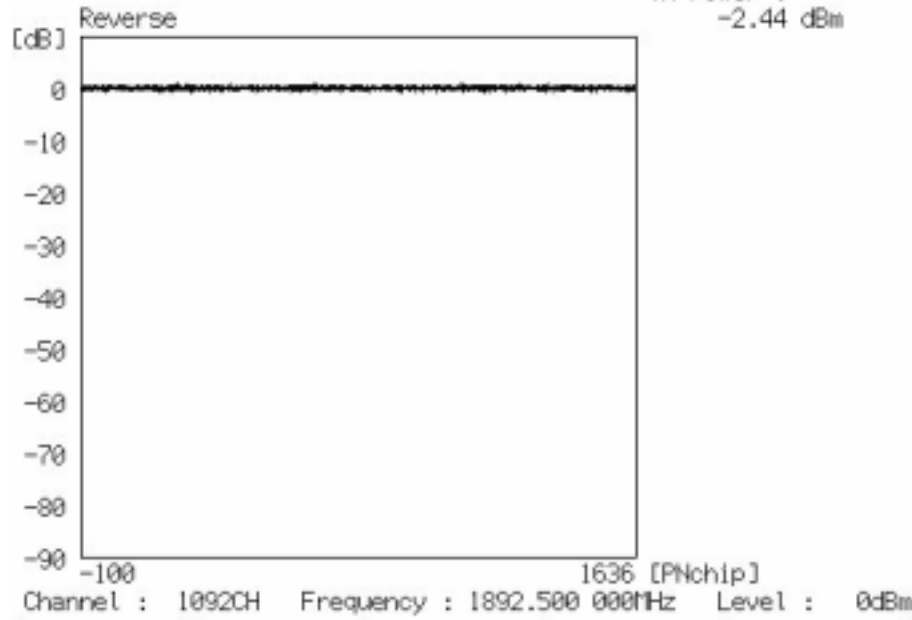
Calibration *

Adjust
Range

Back
Screen +

1 2

1 **2**



Change
System

Instrument
Setup

Change
Color

File
Operation

Main Func
On Off

ATDE

<< Setup Common Parameter (CDMA) >>

Frequency

Channel & Frequency : [1092CH] = [1892.500000MHz]
Channel Spacing : [1.250000MHz]

Level

Reference Level : [0.0dBm]

Signal

Measuring Object : [Reverse]
Data Rate : [9600bps/14400bps]
Modulation Analysis Length : [615PNchip]
Filter : [Filtering]

PN Synchronization

PN Offset : [0] * 64 PNchip
ε Reference : [Nothing]
PN Trigger Edge : [Rise]
PN Trigger Delay : [0.000PNchip]

User Cal Factor : [2.00dB]

TX Measure

All Measure →

Modulation Analysis →

RF Power →

Occupied Bandwidth →

Spurious → close to the Carrier

Code Domain Analysis →

1 2

1 2

Change System	Instrument Setup	Change Color	File Operation	
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Main Func On Off

ATDE
<< All Measure (CDMA) >>

M Measure : Continuous
Storage : Normal

All Measure

U

Page(1/1)

Pass/Fail

Frequency

Carrier Frequency : 1 892.499 996 4 MHz

Carrier Frequency Error : -0.003 6 kHz Pass

Waveform Quality

ρ (Waveform Quality Factor) : 0.99702 Pass

RF Power

TX Power : -2.27 dBm Pass

Occupied Bandwidth (FFT)

Occupied Bandwidth : 1.24 MHz Pass

Spurious close to the Carrier (Spectrum)

Offset Frequency Lower Upper

750kHz : -49.41 dB -49.69 dB Pass

885kHz : -63.96 dB -65.58 dB Pass

980kHz : -64.63 dB -66.88 dB Pass

1250kHz : -65.59 dB -67.83 dB Pass

1980kHz : -70.11 dB -67.86 dB Pass

Storage *
Mode

Calibration *

Adjust
Range

Back
Screen

Total Judgement
Pass

1

Channel : 1092CH Frequency : 1892.500 000MHz Level : 0dBm

1 2

Change
System

Instrument
Setup

Change
Color

File
Operation

Main Func
On Off

ATDE

<< Spurious close Carrier(CDMA) >>

1

Storage : Average (10/ 10)

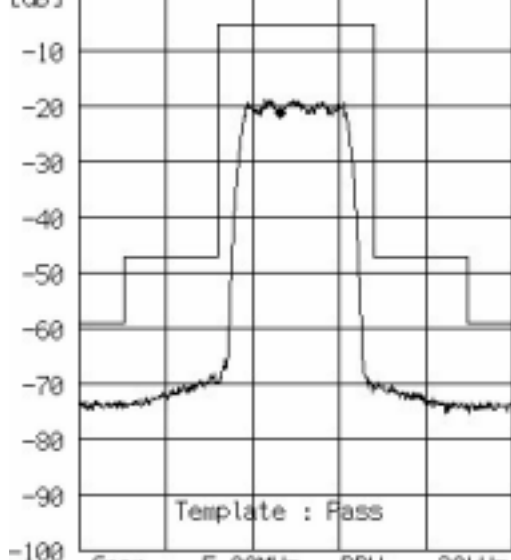
Adj. CH

U

Method : Spectrum

Measure *
Method

[dB] Reverse Template : IS-95(Reverse, Relative)



Tx Power : -2.52 dBm

Offset Freq. vs Power
 -1.980 MHz : -71.16 dBm
 -0.900 MHz : -67.12 dBm
 0.900 MHz : -67.28 dBm
 1.980 MHz : -70.78 dBm

Marker :
 Offset Frequency -0.17 MHz
 Power(RBW:30kHz) -18.41 dBm

Unit *

Storage *
Mode

Calibration *

Adjust Range

Back Screen +

1 2

Span : 5.00MHz RBW: 30kHz
 Channel : 1092CH Frequency : 1892.500 000MHz Level : 0dBm

1 2

Change System

Instrument Setup

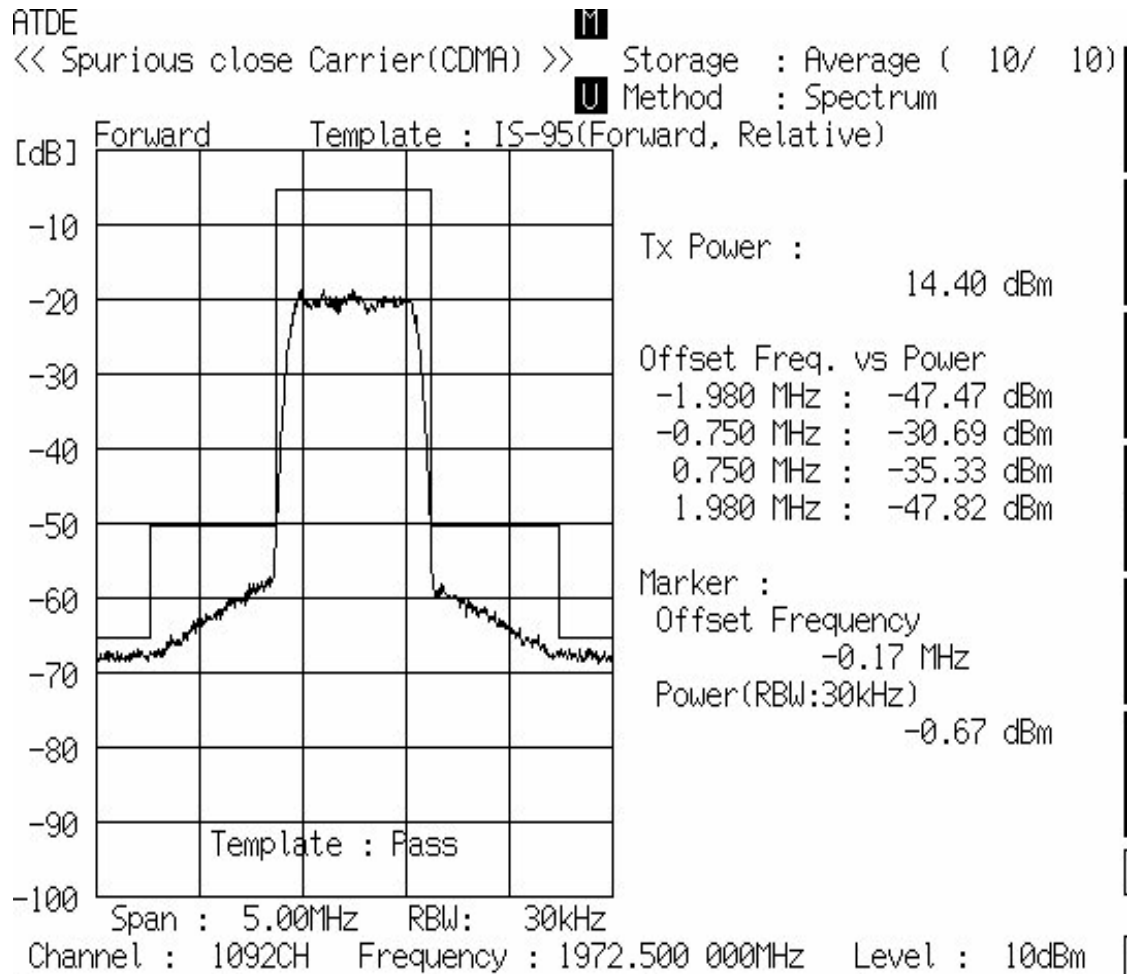
Change Color

File Operation

Main Func On Off

RTDE				Mod. Anal.
<< Modulation Analysis (CDMA) >>	U	Storage : Average (10/ 10)		Waveform Display
Frequency				
Carrier Frequency	:	1 892.499 999 7 MHz		
Carrier Frequency Error	:	-0.000 3 kHz		
Waveform Quality				
ρ(Waveform Quality Factor)	:	0.99728		Storage *
Modulation				Calibration *
RMS Vector Error	:	5.34 % (rms)		
Peak Vector Error	:	21.82 %		
Phase Error	:	2.32 deg. (rms)		
Magnitude Error	:	3.46 % (rms)		
Origin Offset	:	-34.72 dB		Adjust Range
				Back Screen
				1
Channel : 1092CH	Frequency : 1892.500 000MHz	Level : 0dBm		1 2
Change System	Instrument Setup	Change Color	File Operation	Main Func On Off

Downlink



ATDE
<< Spurious Emission (CDMA) >>

M

U Spurious : Spot

Frequency Table : Not Named	RBW:3kHz	RBW:30kHz	RBW:1MHz
f 1 = 1 775.300 000 MHz :	-72.23 dBm	-62.59 dBm	-47.33 dBm
f 2 = 2 662.950 000 MHz :	-70.80 dBm	-61.54 dBm	-46.43 dBm
f 3 = - ----.---- --- MHz :			
f 4 = - ----.---- --- MHz :			
f 5 = - ----.---- --- MHz :			
f 6 = - ----.---- --- MHz :			
f 7 = - ----.---- --- MHz :			
f 8 = - ----.---- --- MHz :			
f 9 = - ----.---- --- MHz :			
f10 = - ----.---- --- MHz :			
f11 = - ----.---- --- MHz :			
f12 = - ----.---- --- MHz :			
f13 = - ----.---- --- MHz :			
f14 = - ----.---- --- MHz :			
f15 = - ----.---- --- MHz :			

Spurious

Spurious *
Mode

Unit *

Calibration *

Adjust
Range

Back
Screen →

1 2

Channel : 1092CH Frequency : 1972.500 000MHz Level : 10dBm

1 2

Change System	Instrument Setup	Change Color	File Operation	
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Main Func
On Off

ATDE
<< All Measure (CDMA) >>

M Measure : Continuous
Storage : Normal

All Measure

U

Page(1/5)

Pass/Fail

Previous
Page

Frequency

Carrier Frequency : 1 972.499 999 2 MHz

Carrier Frequency Error : -0.000 8 kHz Pass

Waveform Quality

ρ (Waveform Quality Factor) : 0.99652 Pass

RF Power

TX Power : 14.43 dBm Pass

Occupied Bandwidth (FFT)

Occupied Bandwidth : 1.26 MHz Pass

Spurious close to the Carrier (Spectrum)

Offset Frequency Lower Upper

750kHz : -42.66 dB -45.64 dB Pass

885kHz : -52.53 dB -53.21 dB Pass

900kHz : -50.55 dB -54.20 dB Pass

1250kHz : -53.03 dB -58.52 dB Pass

1980kHz : -60.26 dB -60.21 dB Pass

*
Storage
Mode

*
Calibration

Adjust
Range

Back
Screen →

Total Judgement
Pass

1

Channel : 1092CH Frequency : 1972.500 000MHz Level : 10dBm

1 2

Change System	Instrument Setup	Change Color	File Operation	
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Main Func
On Off

ATDE
<< Code Domain Analysis (CDMA) >>

M Measure : Continuous
U Storage : Normal

Code Domain

Vertical Scale *

Marker *

Storage Mode *

Calibration *

Adjust Range

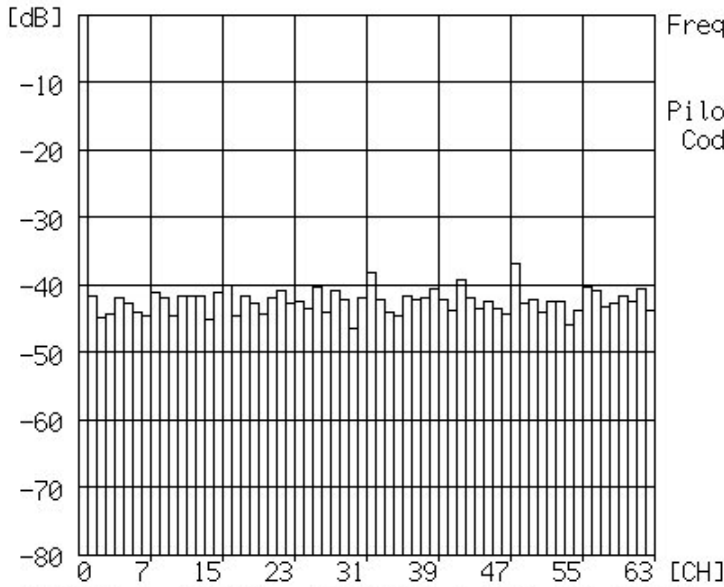
Back Screen →

1

1 2

Main Func
On Off

Tx Power :
14.47 dBm
Frequency Error :
-0.001 7 kHz
Pilot Channel
Code Domain Power :
-0.02 dB



Channel : 1092CH Frequency : 1972.500 000MHz Level : 10dBm

Change System	Instrument Setup	Change Color	File Operation	
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ATDE
<< Code Domain Analysis (CDMA) >>

M Measure : Continuous
U Storage : Normal

Code Domain

Vertical Scale *

Marker *

Storage Mode *

Calibration *

Adjust Range

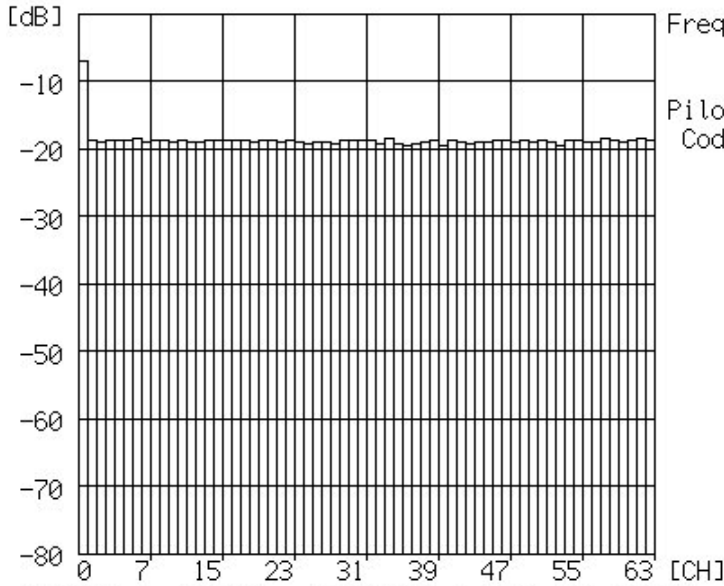
Back Screen →

1

1 2

Main Func
On Off

Tx Power : 10.42 dBm
Frequency Error : 0.001 0 kHz
Pilot Channel Code Domain Power : -6.96 dB



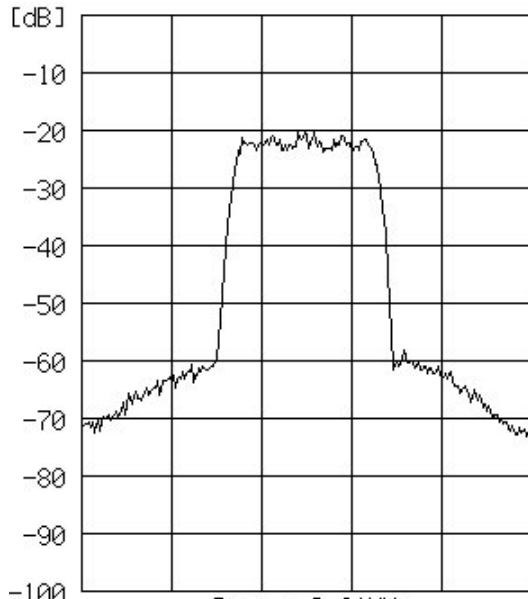
Channel : 1092CH Frequency : 1972.500 000MHz Level : 10dBm

Change System	Instrument Setup	Change Color	File Operation	
---------------	------------------	--------------	----------------	--

ATDE
<< Occupied Bandwidth (CDMA) >>

M Storage : Average (10/ 10)
U Method : FFT

Occ. BW



OCC BW (99%) : 1.26 MHz

Upper Limit : 0.63 MHz

Lower Limit : -0.63 MHz

Center (Upper+Lower)/2 :
1972.500 MHz

Measure
Method *

Storage
Mode *

Calibration *

Adjust
Range

Back
Screen →

1

Channel : 1092CH Frequency : 1972.500 000MHz Level : 10dBm

1 2

Change System	Instrument Setup	Change Color	File Operation	
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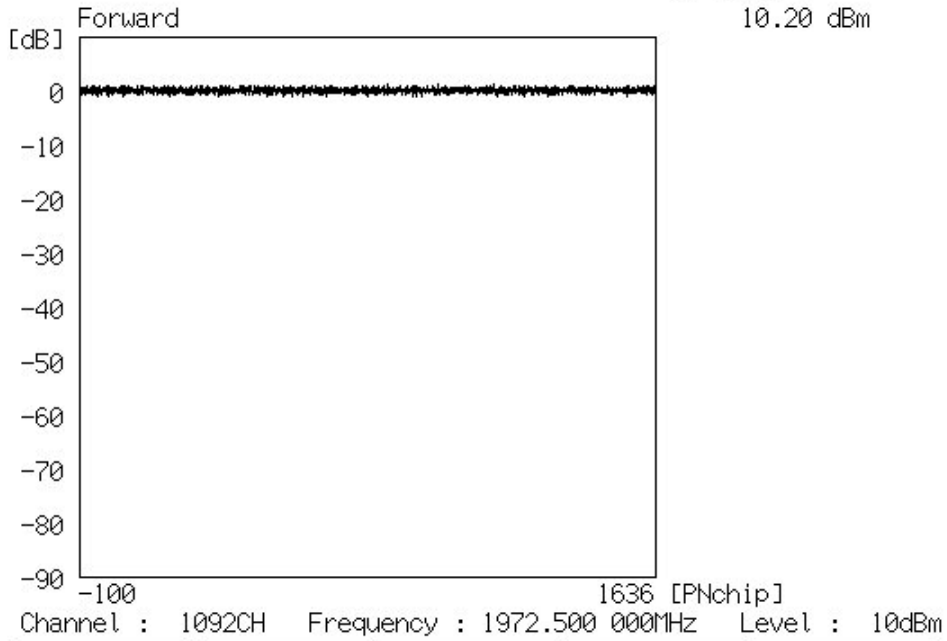
Main Func
On Off

ATDE
<< RF Power (CDMA) >>

M
U Storage : Average (10/ 10)

Tx Power :
10.20 dBm

RF Power



Window *

Marker *

Storage
Mode *

Calibration *

Adjust
Range

Back
Screen →

1 2

1 2

Change
System

Instrument
Setup

Change
Color

File
Operation

Main Func
On Off

ATDE

<< Setup Common Parameter (CDMA) >>

Frequency

Channel & Frequency : [1092CH] = [1972.500000MHz]
Channel Spacing : [1.250000MHz]

Level

Reference Level : [0.0dBm]

Signal

Measuring Object : [Forward]
Data Rate : [9600bps/14400bps]
Modulation Analysis Length : [10] * 64 PNchip
Filter : [Filter+EQ]

PN Synchronization

PN Offset : [0] * 64 PNchip
z Reference : [Nothing]
PN Trigger Edge : [Rise]
PN Trigger Delay : [0.000PNchip]

User Cal Factor : [1.90dB]

TX Measure

All Measure →

Modulation Analysis →

RF Power →

Occupied Bandwidth →

Spurious → close to the Carrier

Code Domain Analysis →

1 2

1 2

Change System

Instrument Setup

Change Color

File Operation

Main Func On Off

ATDE
<< Waveform Display (CDMA) >>

M Measure : Continuous
Storage : Normal
U Trace : Constellation

Trace Format

Constel-
lation

Frequency :
1 972.500 000 7 MHz
Frequency Error :
0.000 7 kHz

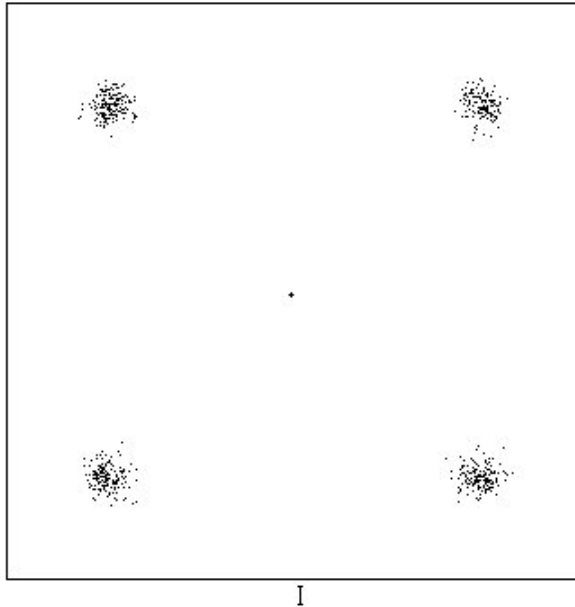
ρ : 0.99572

Vector
Error

Phase Error

Magnitude
Error

return



Channel : 1092CH Frequency : 1972.500 000MHz Level : 10dBm

Change
System

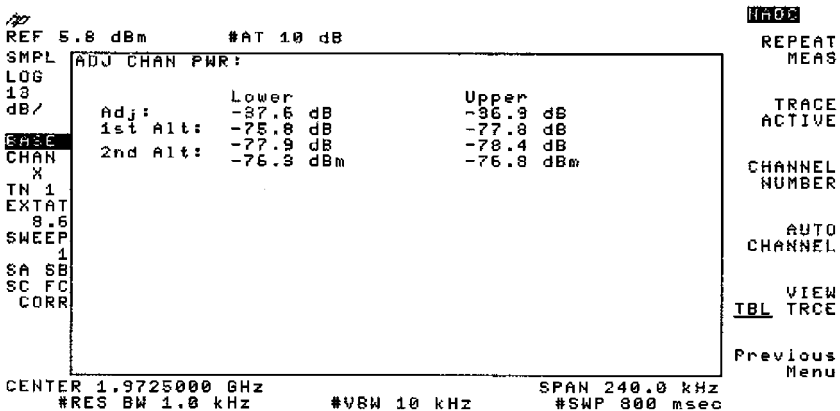
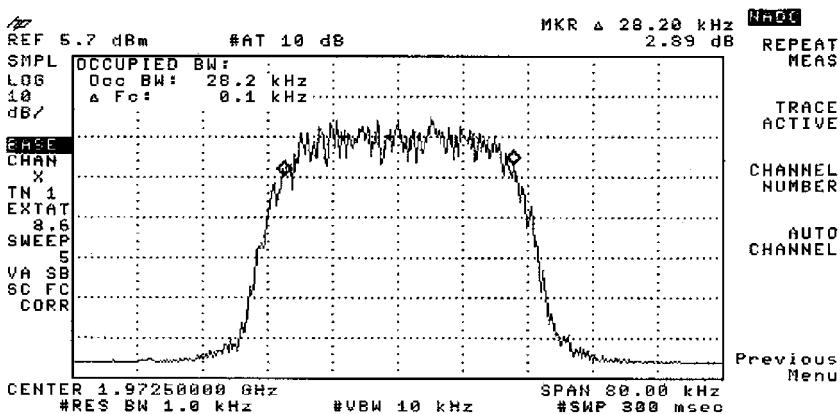
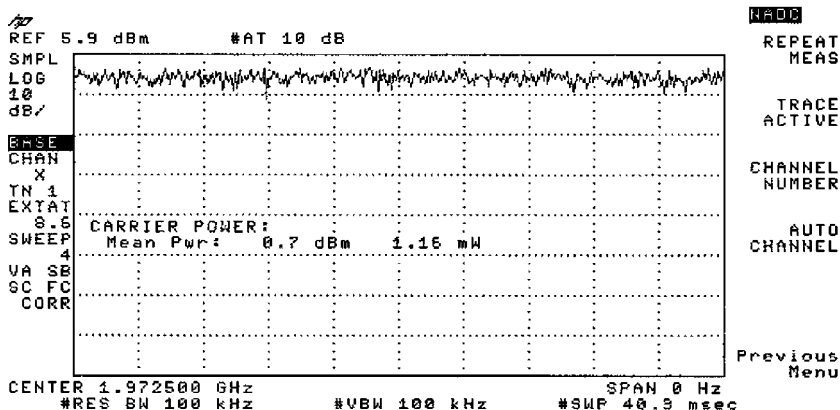
Instrument
Setup

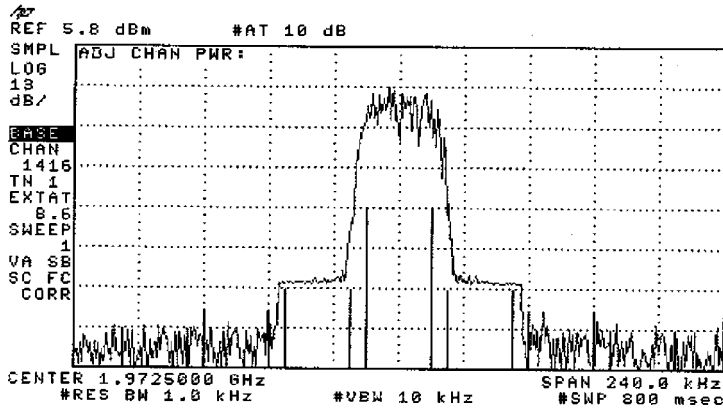
Change
Color

File
Operation

Main Func
On Off

TDMA F Band





HAOC

REPEAT MEAS

TRACE ACTIVE

CHANNEL NUMBER

AUTO CHANNEL

VIEW TBL TRCE

Previous Menu

MODULATION ACCURACY: [single timeslot]

Measurement complete

RMS EVM:	0.8 %
RMS MAG ERR:	0.6 %
RMS PHASE ERR:	0.3 °
PEAK EVM:	7.4 %
ORIGIN OFFSET:	-35.5 dB
FREQUENCY ERR:	0.8 Hz
DROOP (dB/sym):	-0.0001

CHANNEL 1416	FREQ 1972.50 MHz	SYNC WORD 1
BASE	TRIG FRAME	EVM CORR

RMDE

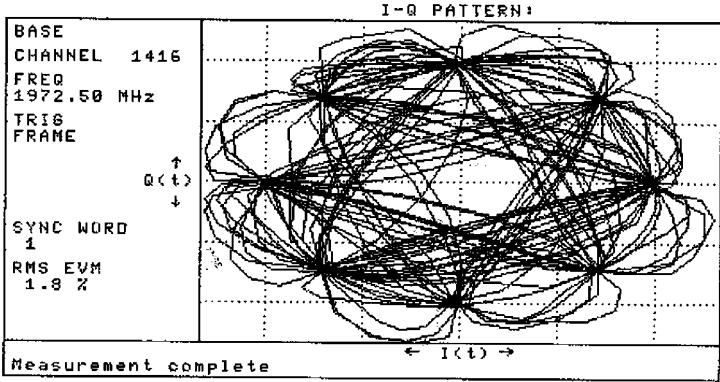
MODULATN ACCURACY

SINGLE CONT

FULL PARTIAL

Demod Main

More 1 of 2



HAOC

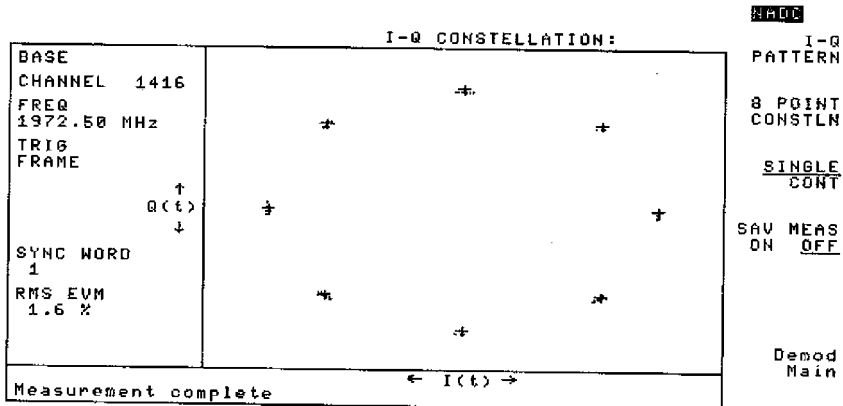
I-Q PATTERN

8 POINT CONSTLN

SINGLE CONT

SAV MEAS ON OFF

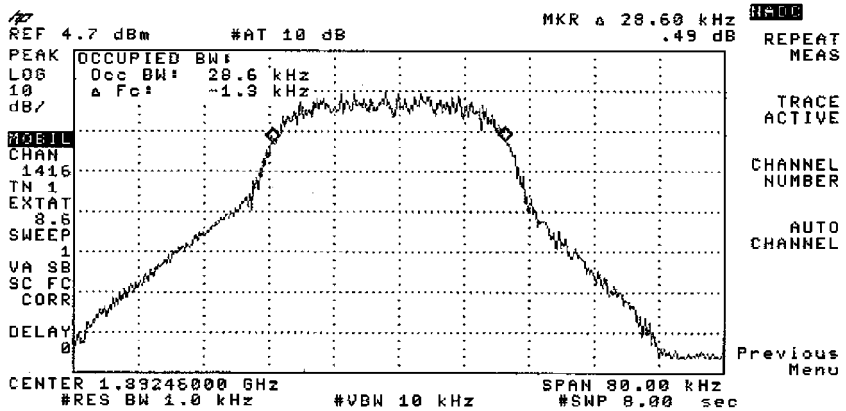
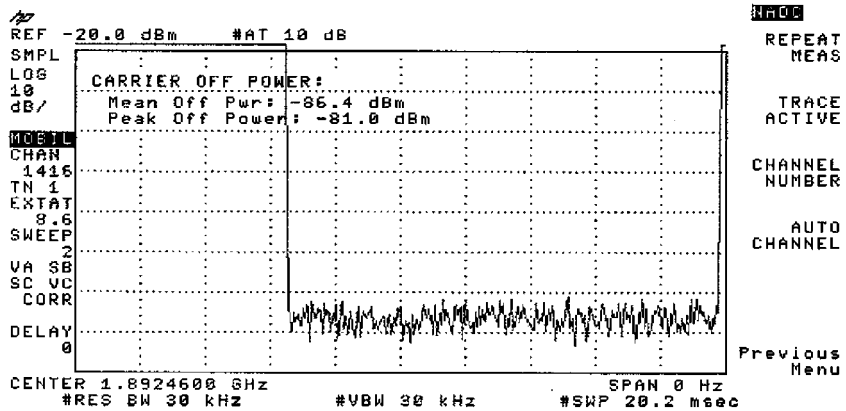
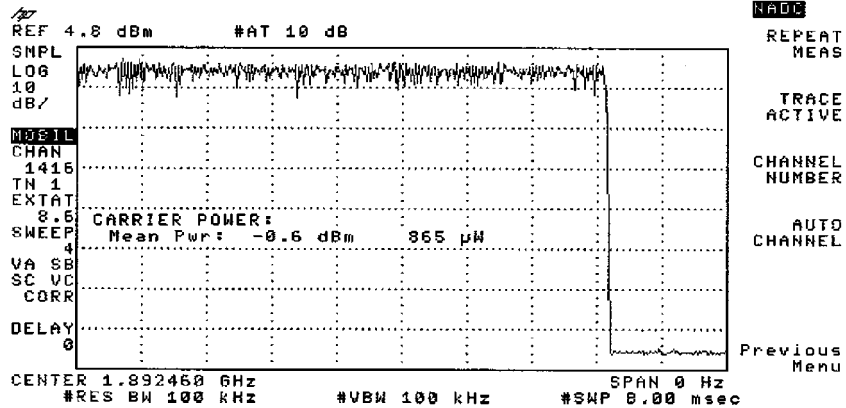
Demod Main

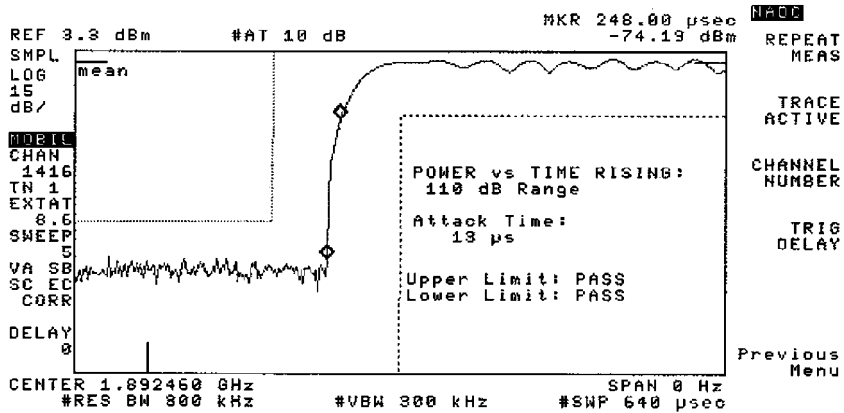
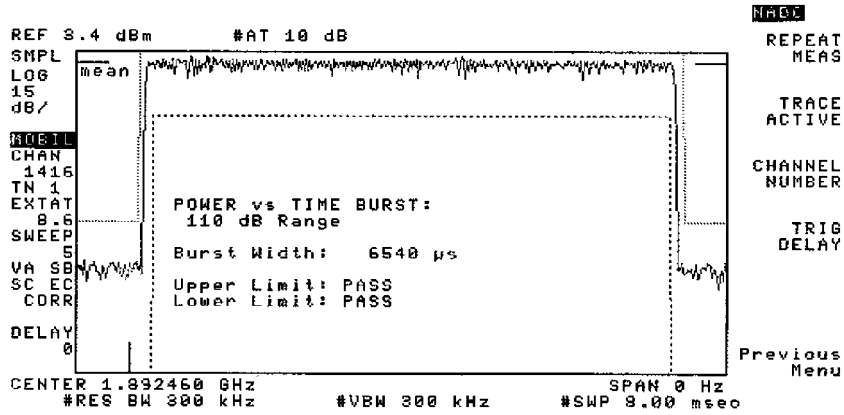
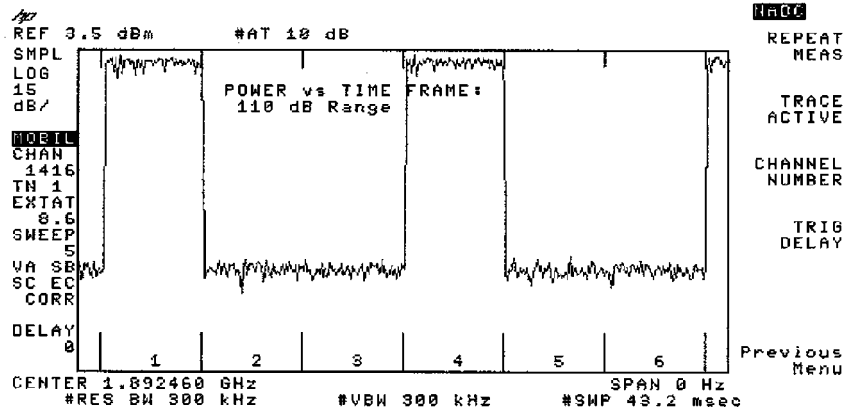


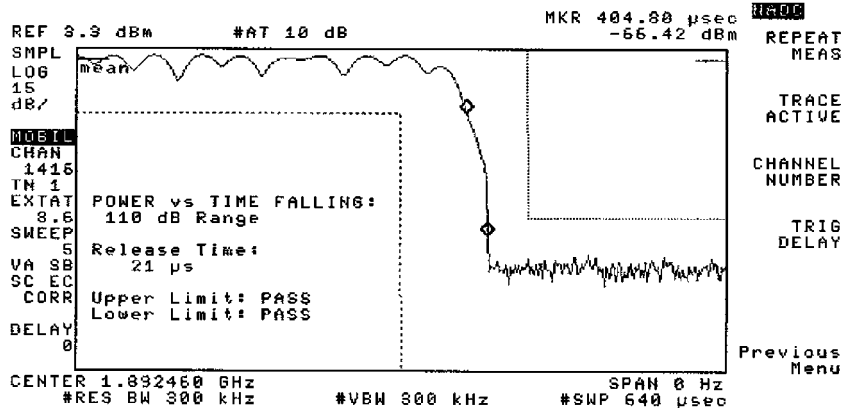
DIGITAL DEMODULATOR STATUS:

BASE	FT Acquisition Status (1=OK):	1
CONT	FT Time Record Status:	0
CHANNEL 1416	FT Acquisition Sync Number:	1
CF 1972.50 MHz	FT Acquisition Sync errors:	0
	FT Sync Bit Location:	36826
TRIG FRAME	Measurement Status (0=OK):	0
WRD SYNC ON	Measurement Time Record Status:	0
TIMESLOT NUM 1	Time Slot (SYNC WORD) Number:	1
	Sync Match (1=PERFECT MATCH):	1
	Sync Word Errors:	0
	Pass 162 Bit Compare Errors:	0
DLP REV 951021	IQ Null Flag:	1
	IQ Null Count:	1
	Low Magnitude Points:	2
DSP FW REV 951027	RMS EVM (%):	1.6
	PEAK EVM (%):	6.7
SA FW REV 980615	ORIGIN OFFSET (dB):	-35.2
	FREQUENCY ERROR (Hz):	-1.1
	DROOP (dB/symbol):	-0.0002

NAOC
 Modulatn
 Graphs
 Data
 STATUS
 Demod Config
 Main Menu







MODULATN ACCURACY: [single burst] MODULATN ACCURACY

Measurement complete

RMS EVM:	1.6 %
RMS MAG ERR:	0.8 %
RMS PHASE ERR:	0.8 °
PEAK EVM:	7.9 %
ORIGIN OFFSET:	-34.7 dB
FREQUENCY ERR:	-6.3 Hz
DROOP (dB/sym):	0.0001

CHANNEL 1416 FREQ 1892.46 MHz SYNC WORD 1

MOBILE TRIG FRAME

SINGLE CONT

FULL PARTIAL

1 BURST 10 BURST

Demod Main

More 1 of 2

MODULATN ACCURACY: [10 symbol, 10 burst average] MODULATN ACCURACY

Measurement complete

RMS EVM:	4.2 %
RMS MAG ERR:	0.8 %
RMS PHASE ERR:	2.4 °

[single (full) burst measured]:

ORIGIN OFFSET:	-35.5 dB
FREQUENCY ERR:	-3.7 Hz
DROOP (dB/sym):	0.0001

CHANNEL 1416 FREQ 1892.46 MHz SYNC WORD 1

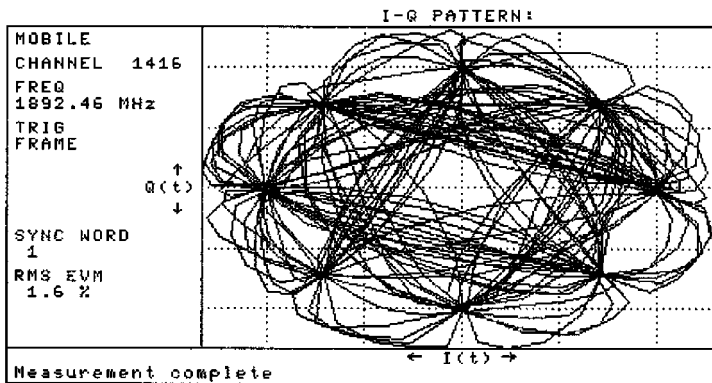
MOBILE TRIG FRAME

SINGLE CONT

1 BURST 10 BURST

Demod Main

More 1 of 2



NAOC

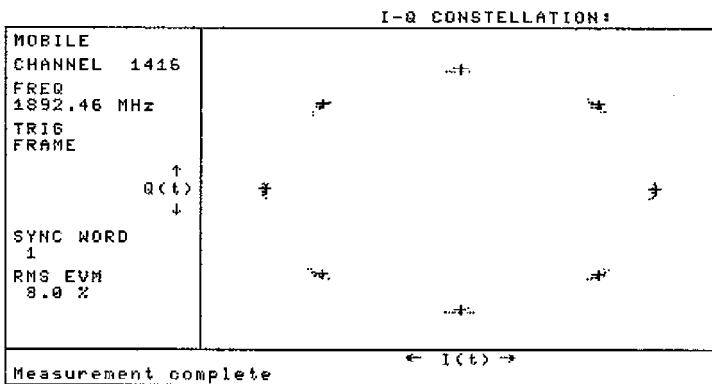
I-Q
PATTERN

8 POINT
CONSTLN

SINGLE
CONT

SAV MEAS
ON OFF

Demod
Main



NAOC

I-Q
PATTERN

8 POINT
CONSTLN

SINGLE
CONT

SAV MEAS
ON OFF

Demod
Main

DIGITAL DEMODULATOR STATUS:

MOBILE BURST CHANNEL 1416 CF 1892.46 MHz TRIG FRAME WRD SYNC ON TIMESLOT NUM 1 DLP REV 961021 DSP FW REV 951027 SA FW REV 980615	FT Acquisition Status (1=OK): 1 FT Time Record Status: 0 FT Acquisition Sync Number: 1 FT Acquisition Sync errors: 0 FT Sync Bit Location: 36798 Measurement Status (0=OK): 0 Measurement Time Record Status: 0 Time Slot (SYNC WORD) Number: 1 Sync Match (1=PERFECT MATCH): 1 Sync Word Errors: 0 Pass 1&2 Bit Compare Errors: 0 IQ Null Flag: 1 IQ Null Count: 1 Low Magnitude Points: 16 RMS EVM (%): 3.0 PEAK EVM (%): 8.1 ORIGIN OFFSET (dB): -36.4 FREQUENCY ERROR (Hz): -0.8 DROOP (dB/symbol): 0.0002
--	--

NAOC

Modulatn

Graphs

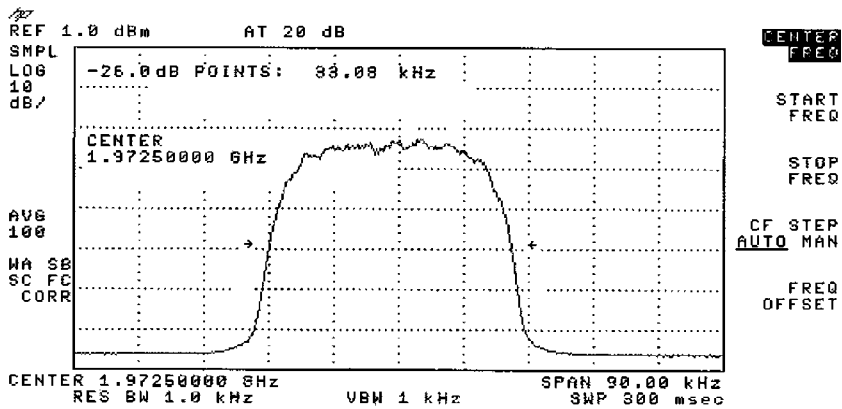
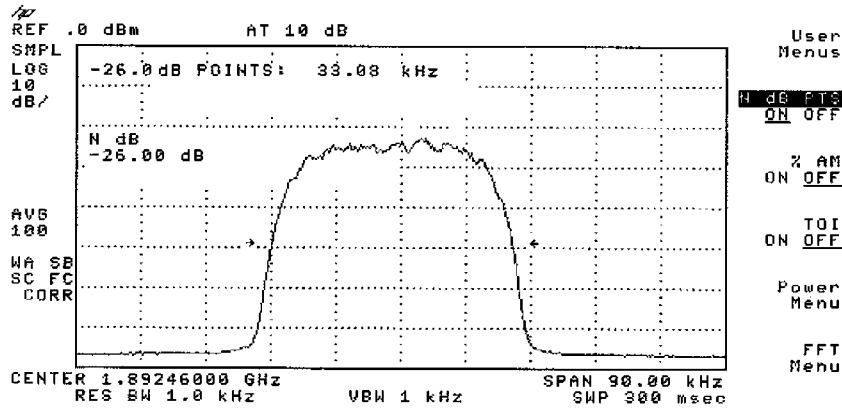
Data

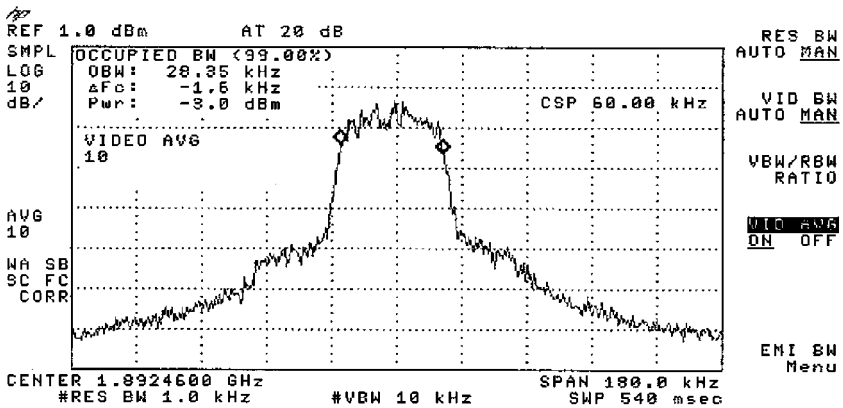
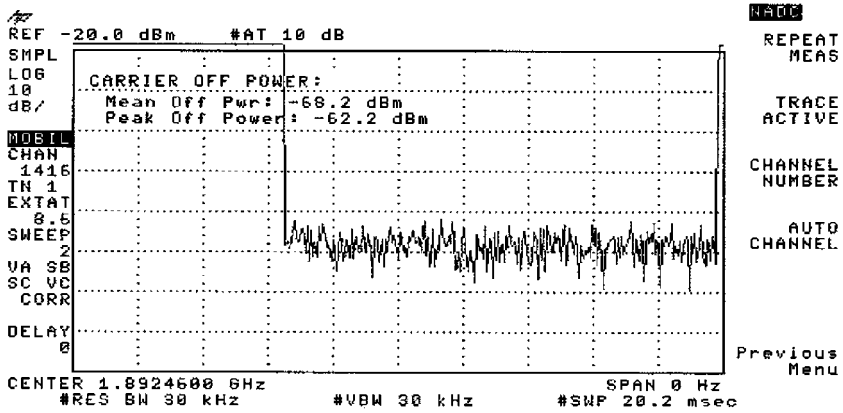
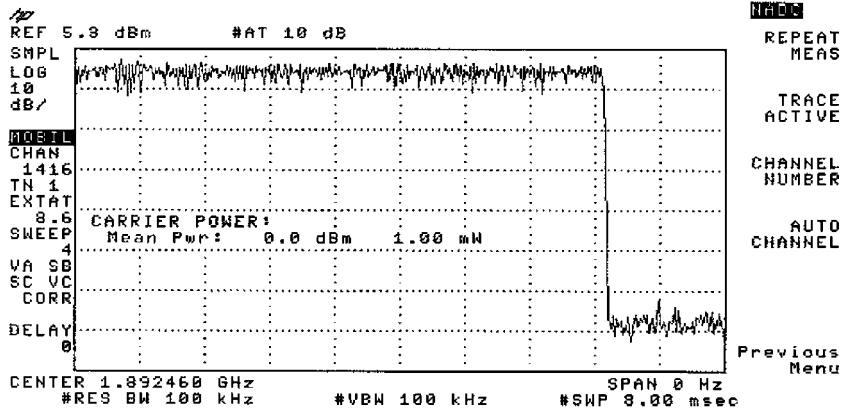
STATUS

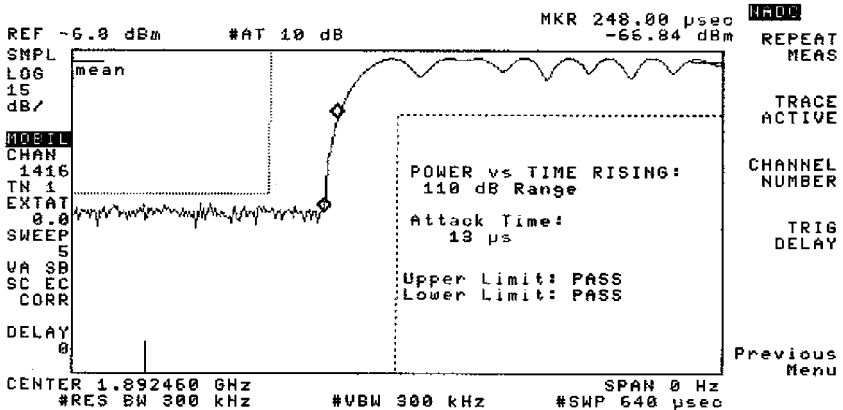
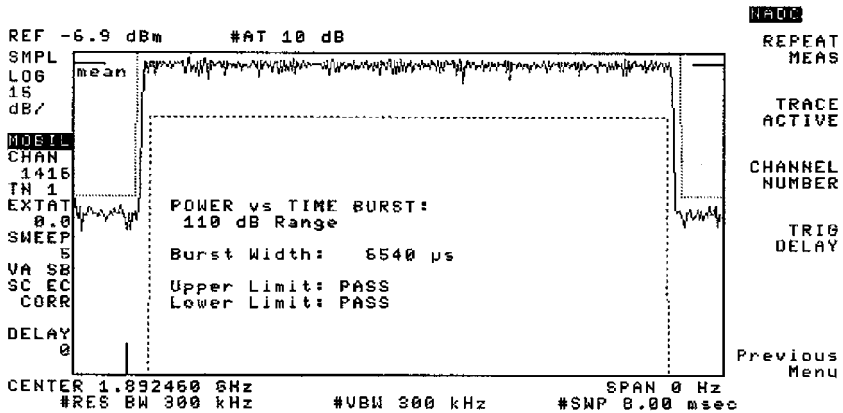
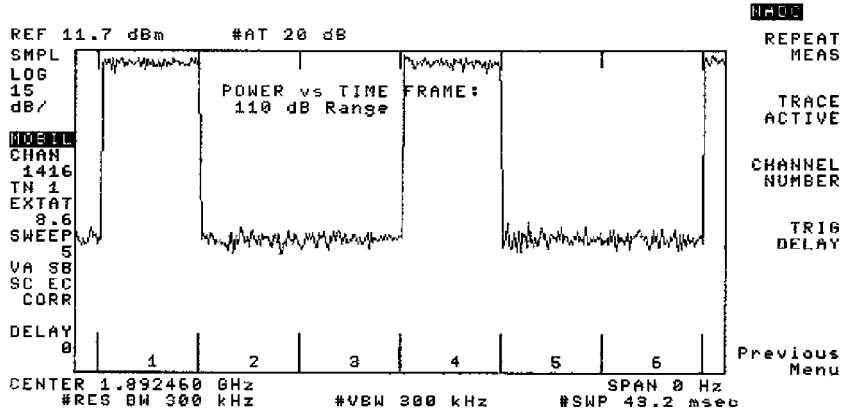
Demod
Config

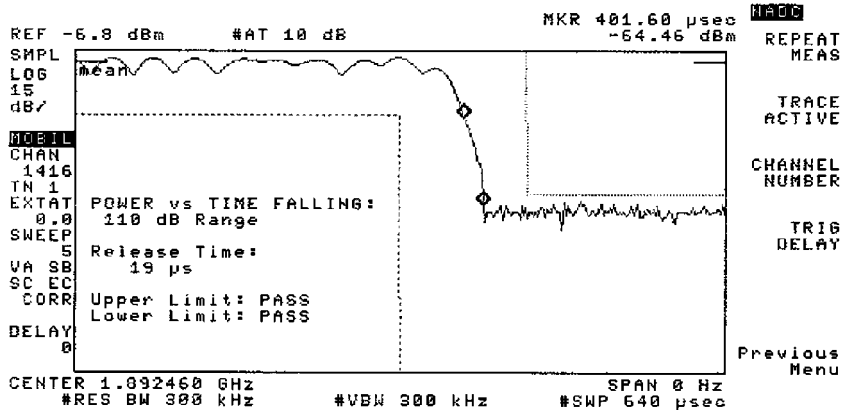
Main

Menu









MODULATION ACCURACY: [single burst]

Measurement complete

RMS EVM:	1.4 %
RMS MAG ERR:	1.1 %
RMS PHASE ERR:	0.5 °
PEAK EVM:	7.9 %
ORIGIN OFFSET:	-35.0 dB
FREQUENCY ERR:	-2.6 Hz
DROOP (dB/sym):	-0.0000

CHANNEL 1416 FREQ 1892.46 MHz SYNC WORD 1
MOBILE TRIG FRAME EVM CORR

MODULATN ACCURACY

SINGLE CONT

FULL PARTIAL

1 BURST
10 BURST

Demod Main

More 1 of 2

MODULATION ACCURACY: [10 symbol, 10 burst average]

Measurement complete

RMS EVM:	4.4 %
RMS MAG ERR:	1.1 %
RMS PHASE ERR:	2.4 °

[single (full) burst measured]:

ORIGIN OFFSET:	-37.2 dB
FREQUENCY ERR:	-6.0 Hz
DROOP (dB/sym):	0.0000

CHANNEL 1416 FREQ 1892.46 MHz SYNC WORD 1
MOBILE TRIG FRAME

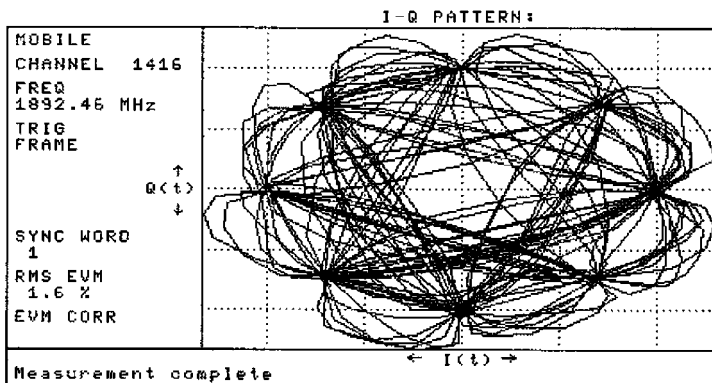
MODULATN ACCURACY

SINGLE CONT

1 BURST
10 BURST

Demod Main

More 1 of 2



NAOC

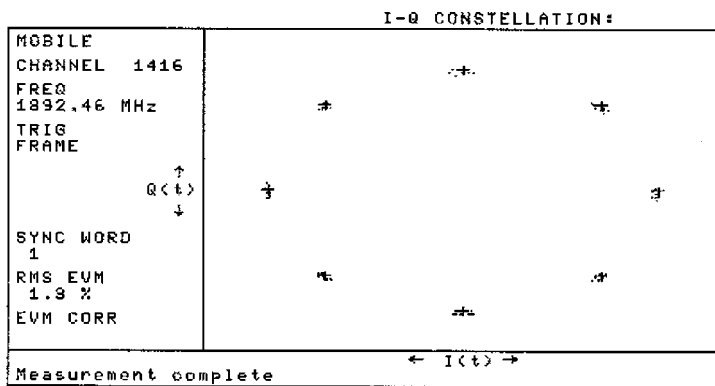
I-Q PATTERN

8 POINT CONSTLN

SINGLE CONT

SAV MEAS ON OFF

Demod Main



NAOC

I-Q PATTERN

8 POINT CONSTLN

SINGLE CONT

SAV MEAS ON OFF

Demod Main

DIGITAL DEMODULATOR STATUS:

MOBILE BURST	FT Acquisition Status (1=OK):	1
	FT Time Record Status:	0
CHANNEL 1416	FT Acquisition Sync Number:	1
CF 1892.46 MHz	FT Acquisition Sync errors:	0
	FT Sync Bit Location:	36798
TRIG FRAME	Measurement Status (0=OK):	0
MRD SYNC ON	Measurement Time Record Status:	0
TIMESLOT NUM 1	Time Slot (SYNC WORD) Number:	1
	Sync Match (1=PERFECT MATCH):	1
CORRECTION:	Sync Word Errors:	0
1.0457 °	Pass 102 Bit Compare Errors:	0
1.5513 %	IQ Null Flag:	1
DLP REV	IQ Null Count:	1
961021	Low Magnitude Points:	27
DSP FW REV	RMS EVM (%):	1.3
951027	PEAK EVM (%):	7.3
	ORIGIN OFFSET (dB):	-36.3
SA FW REV	FREQUENCY ERROR (Hz):	-5.5
980615	DROOP (dB/symbol):	-0.0002

NAOC

Modulatn

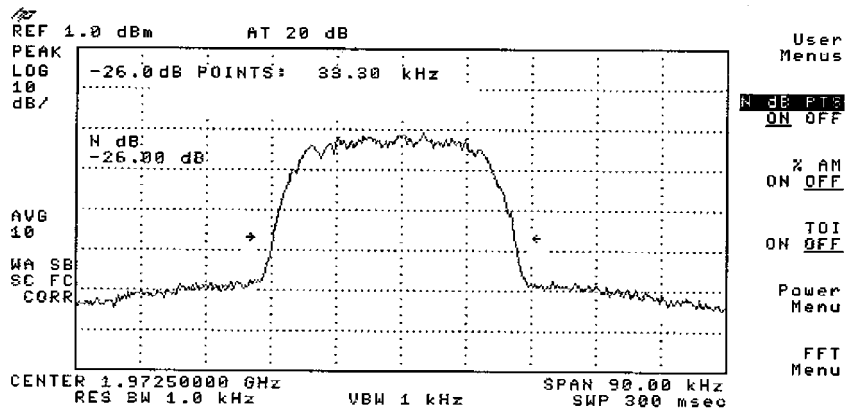
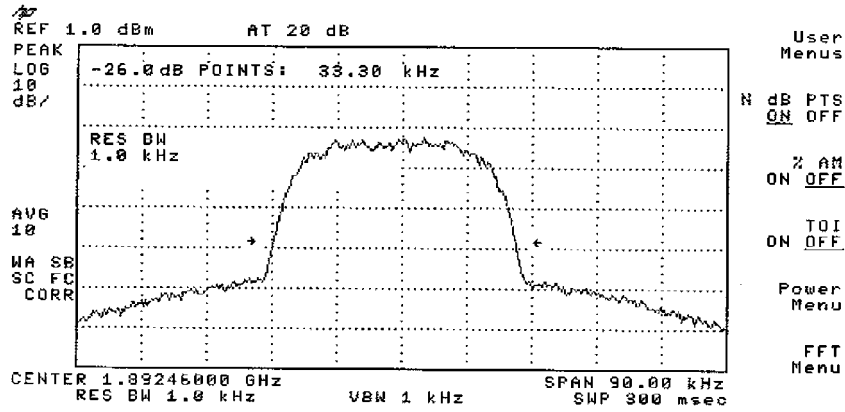
Graphs

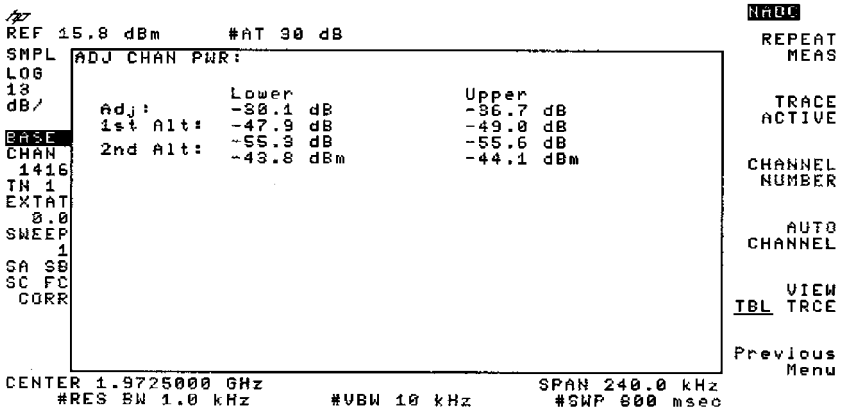
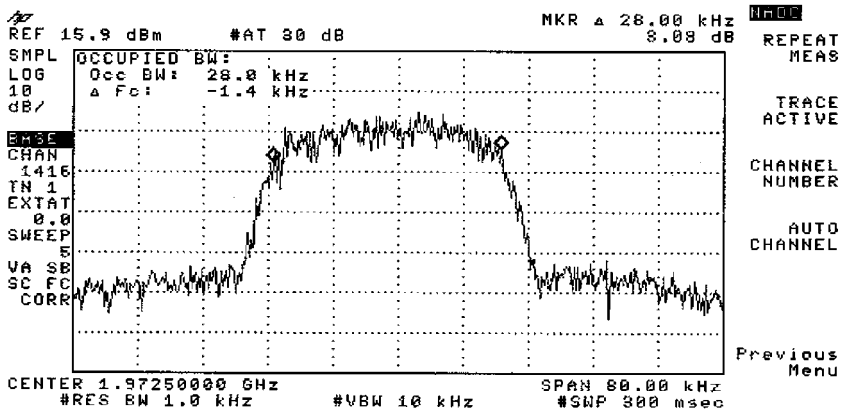
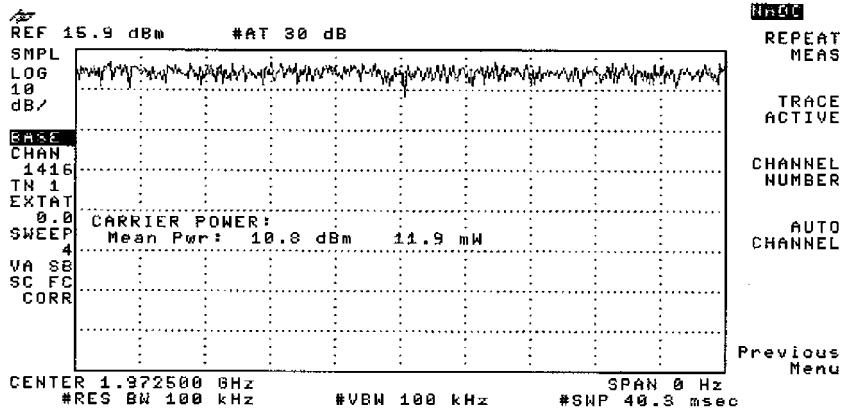
Data

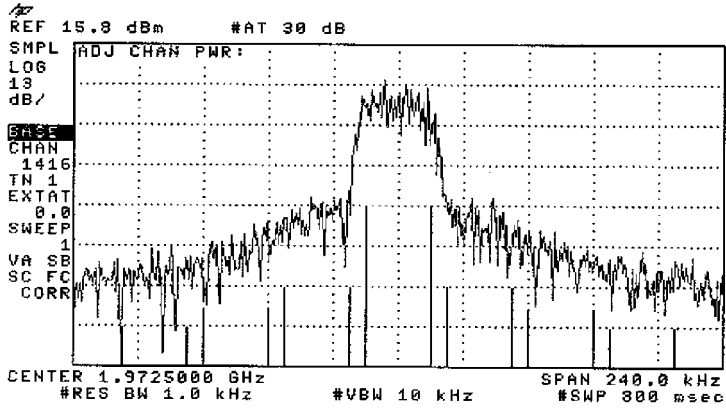
STATUS

Demod Config

Main Menu







NAAC

REPEAT MEAS

TRACE ACTIVE

CHANNEL NUMBER

AUTO CHANNEL

VIEW TBL TRCE

Previous Menu

MODULATION ACCURACY: [single timeslot]

Measurement complete

RMS EVM:	1.5 %
RMS MAG ERR:	1.0 %
RMS PHASE ERR:	0.6 °
PEAK EVM:	9.0 %
ORIGIN OFFSET:	-35.0 dB
FREQUENCY ERR:	7.7 Hz
DROOP (dB/sym):	-0.0002

CHANNEL 1416	FREQ 1972.50 MHz	SYNC WORD 1
BASE	TRIG FRAME	EVM CORR

NAAC

MODULATN ACCURACY

SINGLE CONT

FULL PARTIAL

Demod Main

More 1 of 2

STATISTICS for sample of 10 timeslots:

	Mean	Std dev	Max	Min
RMS EVM (%):	1.8	0.30	2.1	1.2
RMS MAG ERR (%):	1.1	0.08	1.2	1.0
RMS PHASE ERR (°):	0.8	0.23	1.0	0.8

RMS EVM Uncertainty (for N=10)

Temp. Range 20-30 °C:	2.1 % > RMS EVM >	1.4 %
Temp. Range 0-55 °C:	2.1 % > RMS EVM >	1.4 %

	Mean
ORIGIN OFFSET (dB):	-35.0
FREQUENCY ERROR (Hz):	1.9
DROOP (dB/symbol):	-0.0001

CHANNEL 1416	FREQ 1972.50 MHz	SYNC WORD 1
BASE	TRIG FRAME	EVM CORR

NAAC

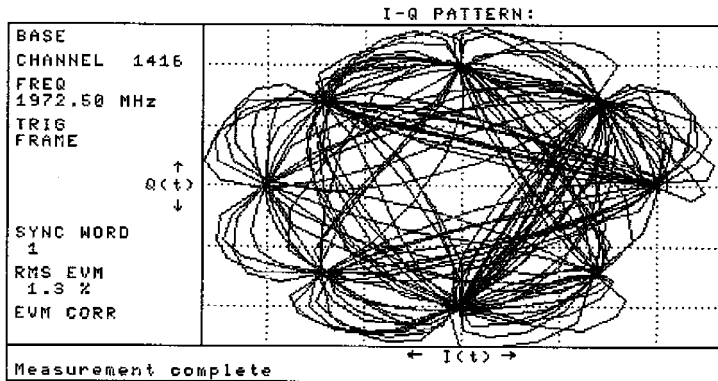
MODULATN ACCURACY

SINGLE CONT

FULL PARTIAL

Demod Main

More 1 of 2



MODE

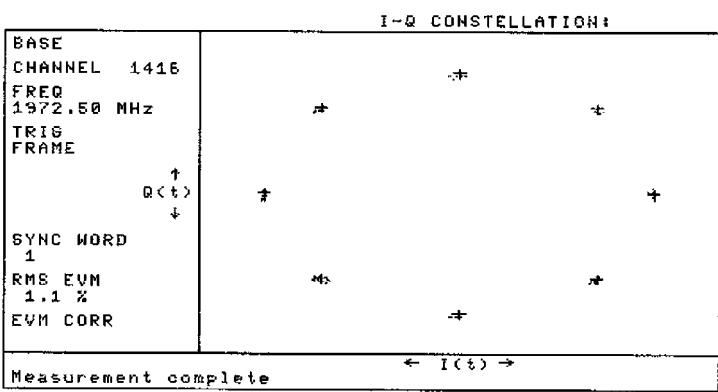
I-Q
PATTERN

8 POINT
CONSTLN

SINGLE
CONT

SAV MEAS
ON OFF

Demod
Main



MODE

I-Q
PATTERN

8 POINT
CONSTLN

SINGLE
CONT

SAV MEAS
ON OFF

Demod
Main

DIGITAL DEMODULATOR STATUS:

BASE	FT Acquisition Status (1=OK):	1
CONT	FT Time Record Status:	0
CHANNEL 1416	FT Acquisition Sync Number:	1
CF 1972.50 MHz	FT Acquisition Sync errors:	0
	FT Sync Bit Location:	36926
TRIG FRAME	Measurement Status (0=OK):	0
WRD SYNC ON	Measurement Time Record Status:	0
TIMESLOT NUM 1	Time Slot (SYNC WORD) Number:	1
	Sync Match (1=PERFECT MATCH):	1
CORRECTION:	Sync Word Errors:	0
1.0457 °	Pass 1&2 Bit Compare Errors:	0
1.3041 %	IQ Null Flag:	1
DLP REV	IQ Null Count:	19
961021	Low Magnitude Points:	19
DSP FW REV	RMS EVM (%):	1.1
951027	PEAK EVM (%):	5.1
	ORIGIN OFFSET (dB):	-35.1
SA FW REV	FREQUENCY ERROR (Hz):	4.2
980615	DROOP (dB/symbol):	-0.0002

MODE

Modulatn

Graphs

Data

STATUS

Demod
Config

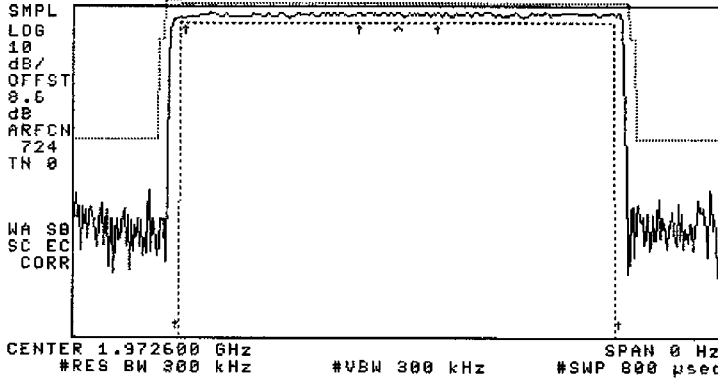
Main
Menu

GSM F Band

08:53:19 SEP 03, 1999

PCS1900

REF 16.9 dBm AT 20 dB



REPEAT MEAS

TRIG DELAY

P vs T TOP 10dB

P vs T RISING

P vs T FALLING

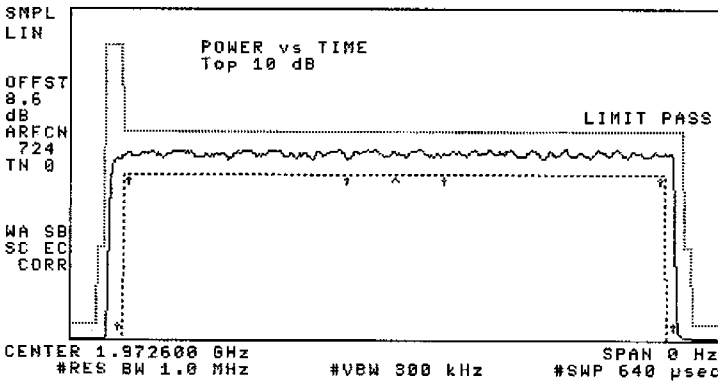
Previous Menu

L

08:54:35 SEP 03, 1999

PCS1900

REF 19.7 dBm AT 30 dB



REPEAT MEAS

NUMBER BURSTS

TRIG DELAY

MEASURE AVG PKS

Physical Channel

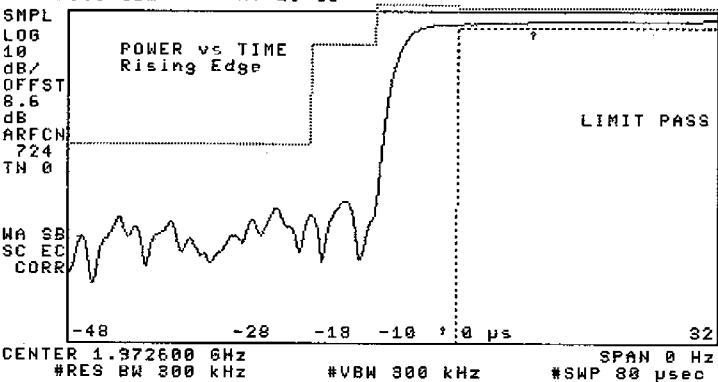
Previous Menu

L

08:55:55 SEP 03, 1999

PCS1900

REF 16.9 dBm AT 20 dB



REPEAT MEAS

NUMBER BURSTS

TRIG DELAY

MEASURE AVG PKS

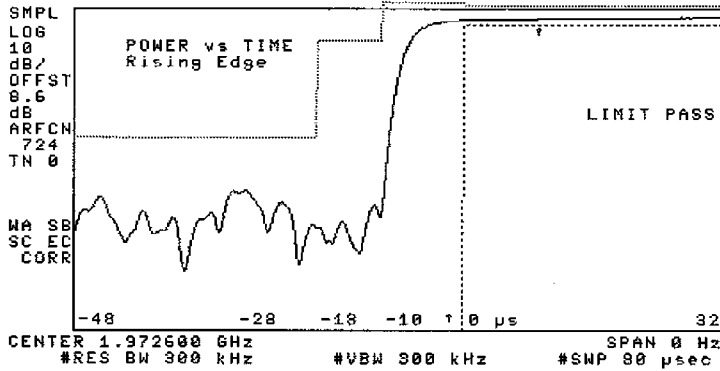
Physical Channel

Previous Menu

L

08:57:35 SEP 03, 1999

REF 16.9 dBm AT 20 dB



PC81900

REPEAT MEAS

NUMBER BURSTS

TRIG DELAY

MEASURE AVG PKTS

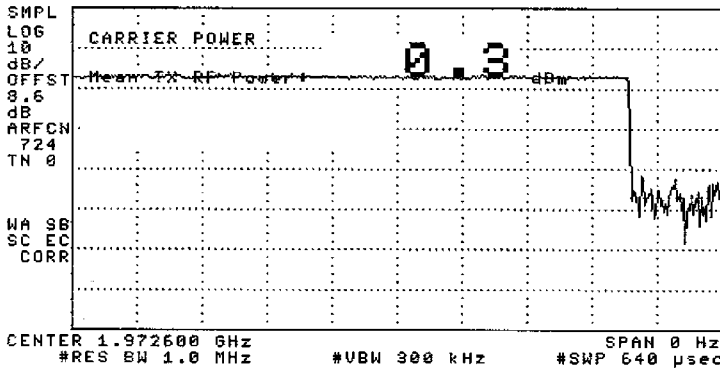
Physical Channel

Previous Menu

L

09:01:36 SEP 03, 1999

REF 17.3 dBm AT 20 dB



PC81900

REPEAT MEAS

NUMBER BURSTS

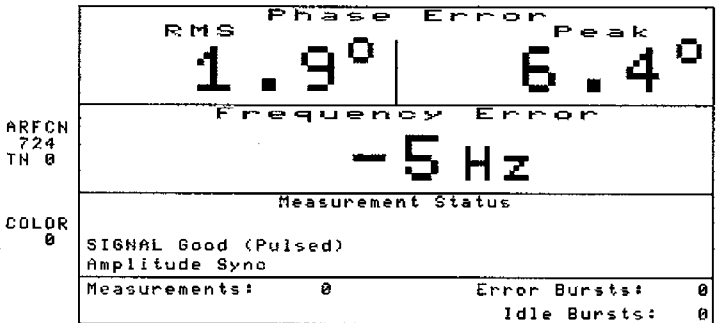
Physical Channel

Previous Menu

L

09:07:19 SEP 03, 1999

REF -5.0 dBm AT 10 dB



PC81900

REPEAT MEAS

NUMBER BURSTS

MEASURE AVG PKTS

STD DEV ON OFF

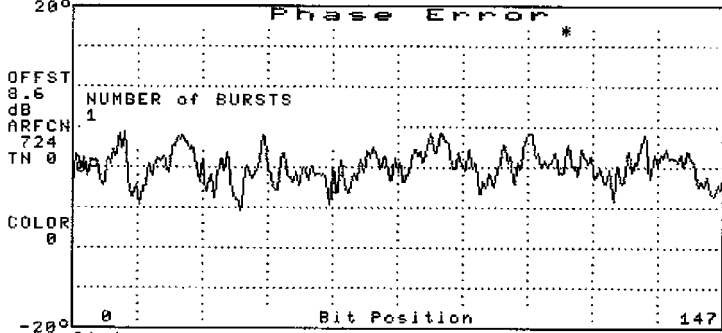
Physical Channel

Previous Menu

L

09:12:00 SEP 03, 1999

REF -5.1 dBm AT 10 dB



PC81900

REPEAT MEAS

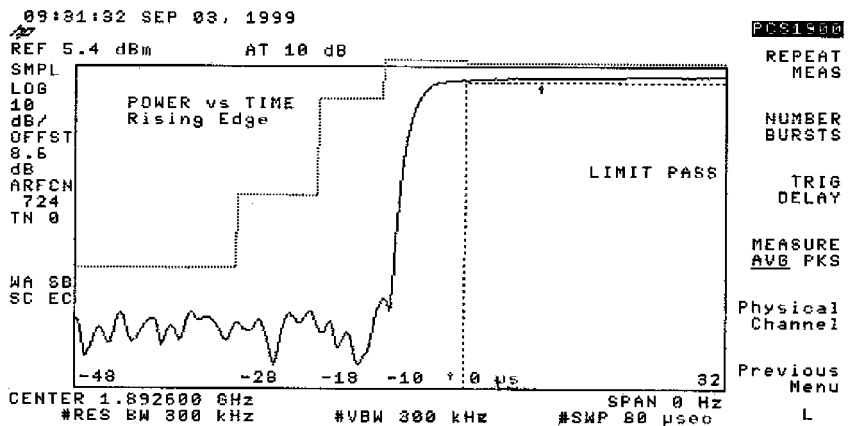
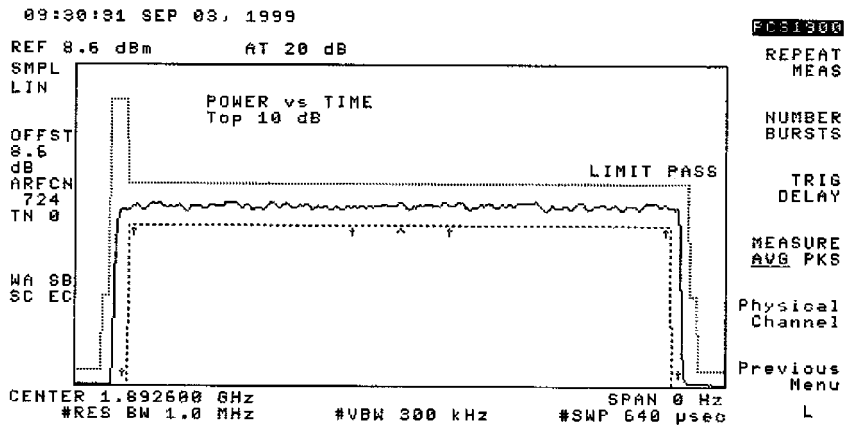
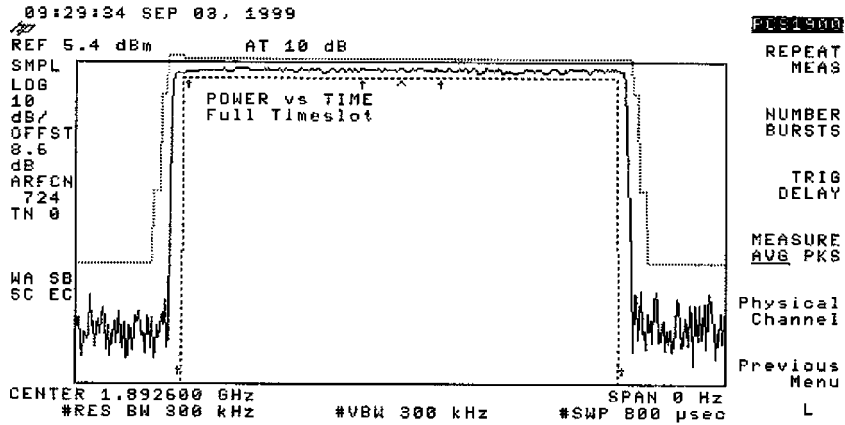
NUMBER BURSTS

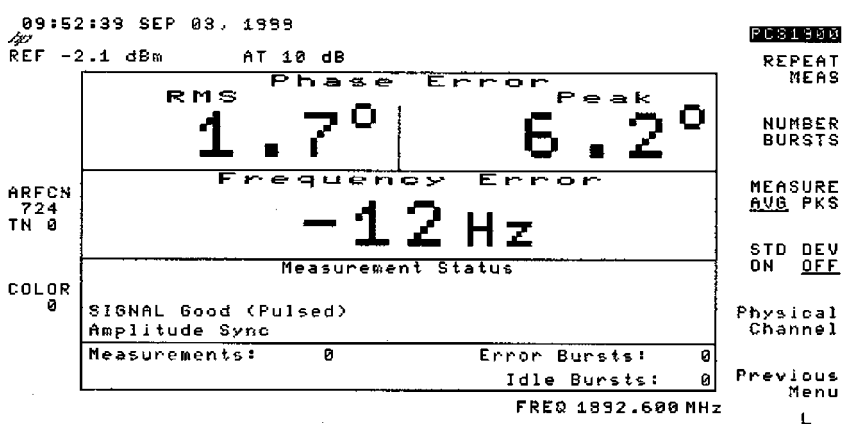
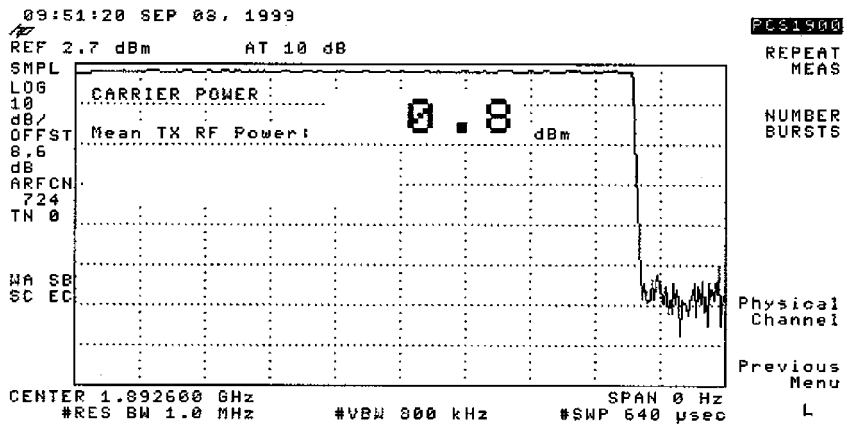
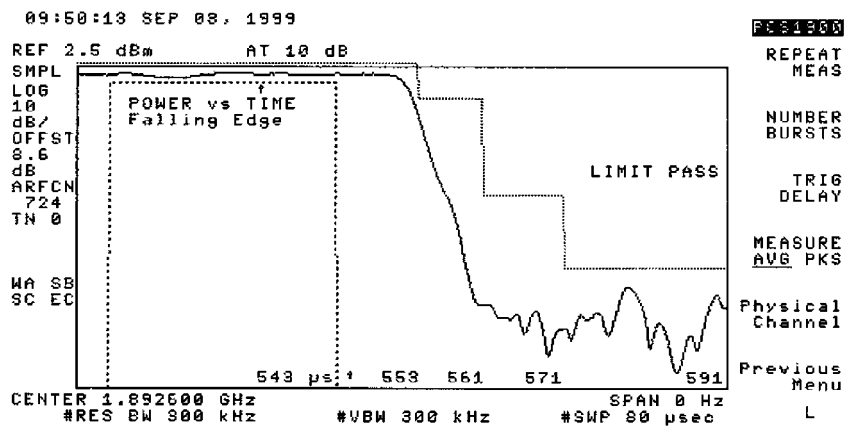
MEASURE AVG PKS

Zoom

Physical Channel

Previous Menu

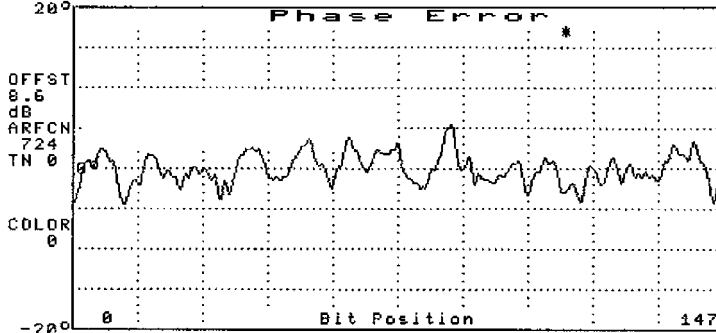




10:03:33 SEP 03, 1999

REF -2.2 dBm AT 10 dB

FC81300



OFFST 8.6
dB
ARFCN 724
TN 0
CDLDR 0

REPEAT MEAS

NUMBER BURSTS

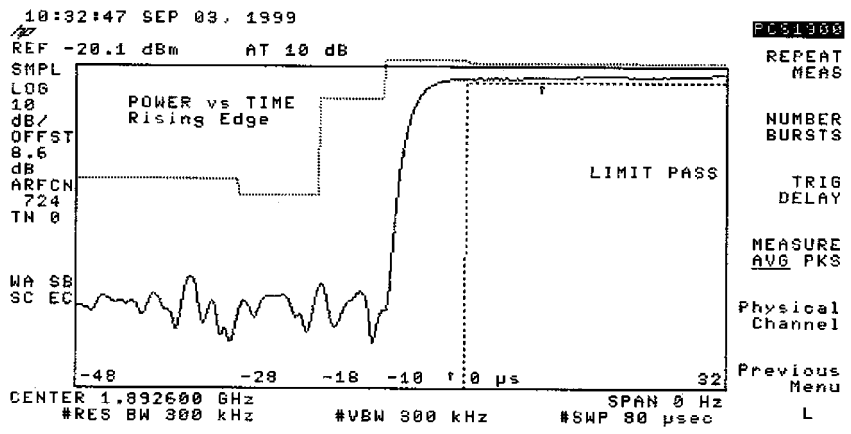
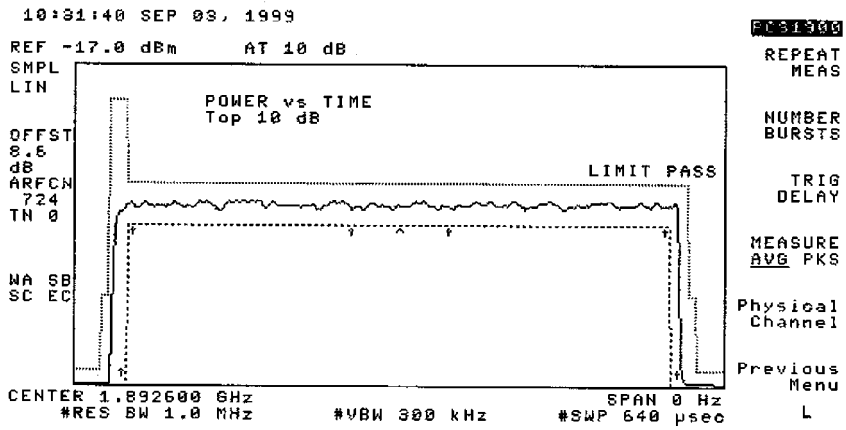
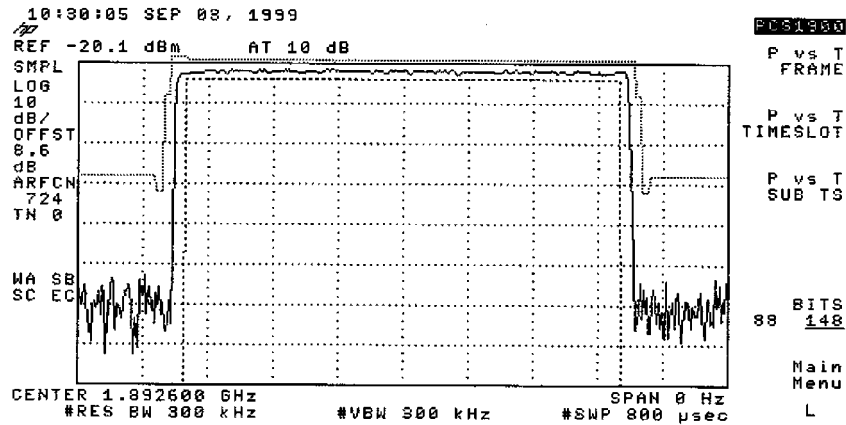
MEASURE AVG PKS

Zoom

Physical Channel

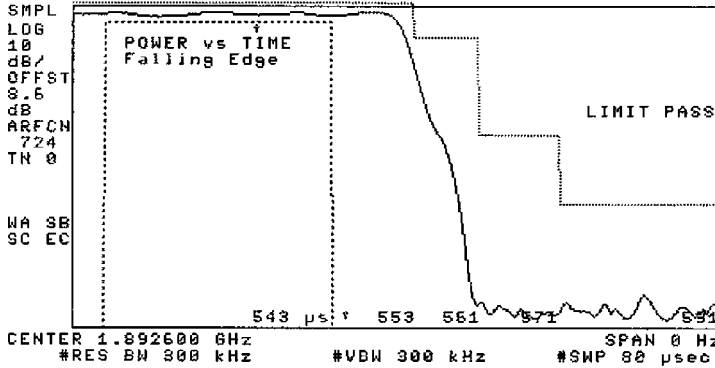
Previous Menu

Status: SIGNAL Good
Phase: RMS: 1.8° Pk: 5.6°
FREQ 1692.600 MHz
Error: 3 Hz



10:41:18 SEP 03, 1999

REF 1.2 dBm AT 10 dB



PCS1900

REPEAT MEAS

NUMBER BURSTS

TRIG DELAY

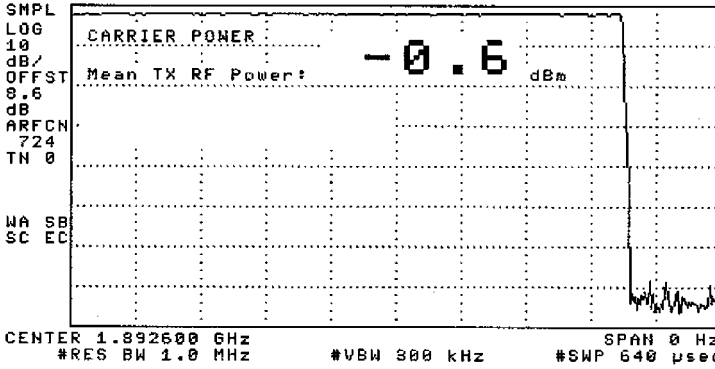
MEASURE AVG PKs

Physical Channel

Previous Menu L

10:42:15 SEP 03, 1999

REF 1.4 dBm AT 10 dB



PCS1900

REPEAT MEAS

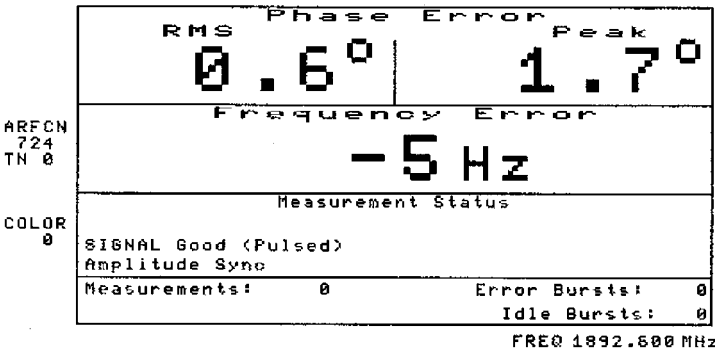
NUMBER BURSTS

Physical Channel

Previous Menu L

10:43:39 SEP 03, 1999

REF -3.6 dBm AT 10 dB



PCS1900

REPEAT MEAS

NUMBER BURSTS

MEASURE AVG PKs

STD DEV ON OFF

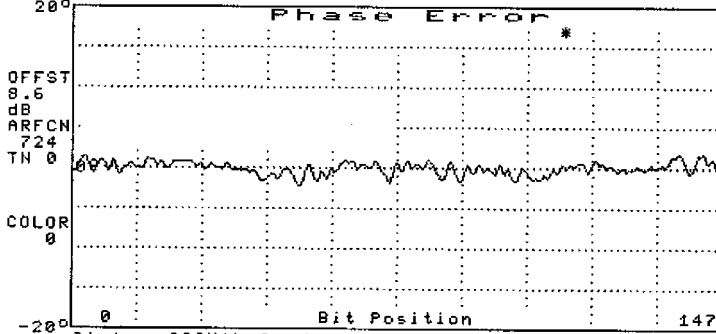
Physical Channel

Previous Menu L

10:45:14 SEP 03, 1999

REF -3.6 dBm AT 10 dB

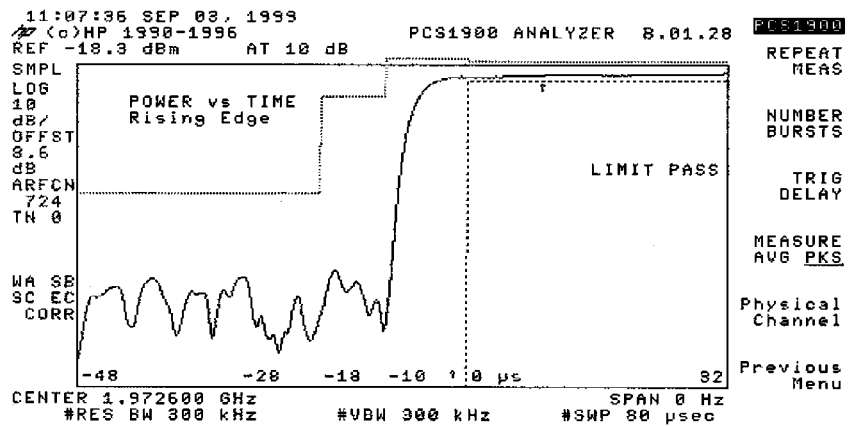
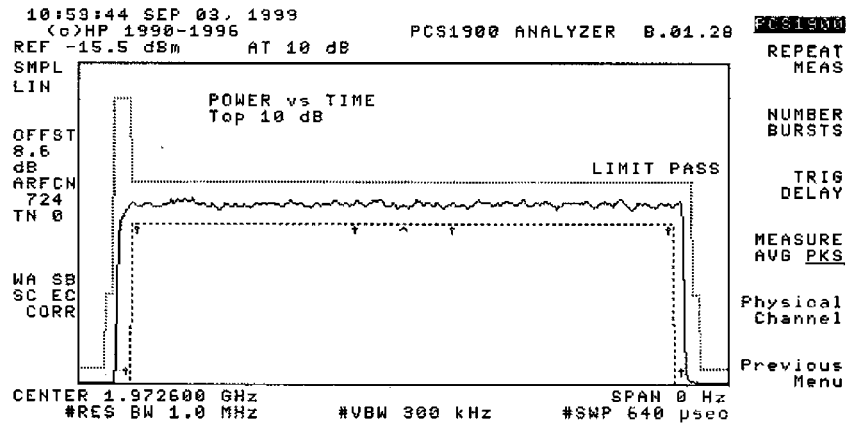
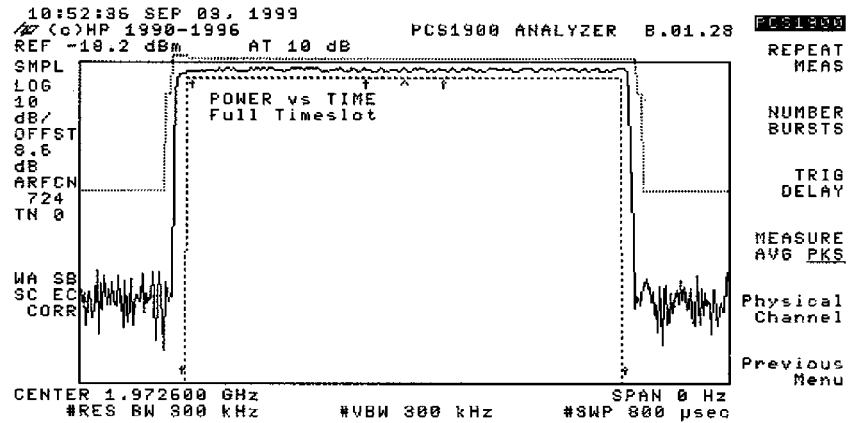
PCS1300

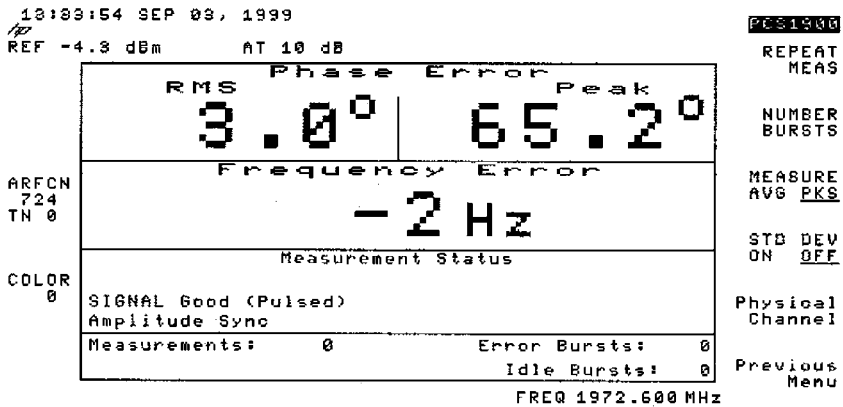
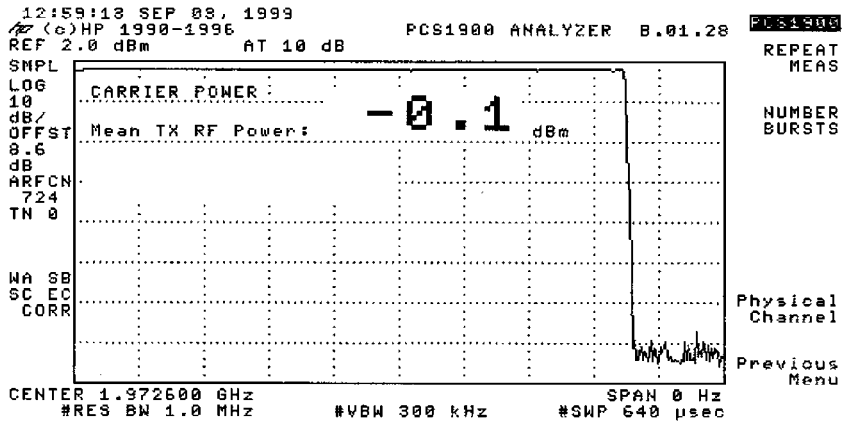
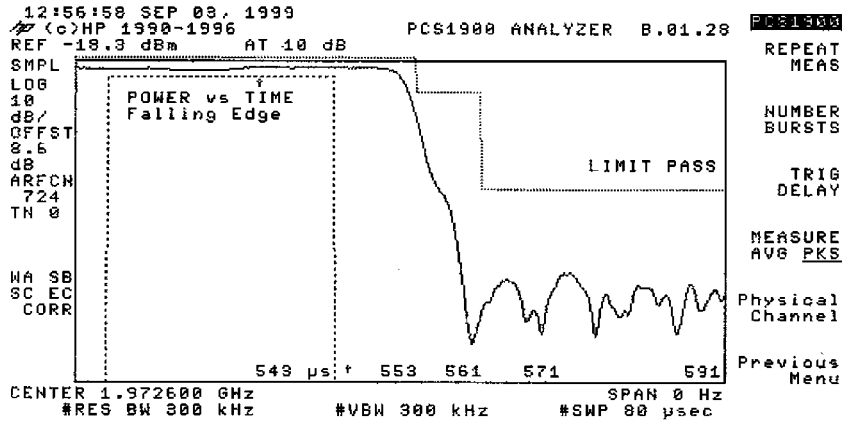


OFFST
8.6
dB
ARFCN
724
TN 0
COLOR
0

REPEAT
MEAS
NUMBER
BURSTS
MEASURE
AUG PKS
Zoom
Physical
Channel
Previous
Menu

Status: SIGNAL Good
Phase: RMS: 0.7° Pk: 2.1° FREQ 1892.600 MHz
Error: -11 Hz

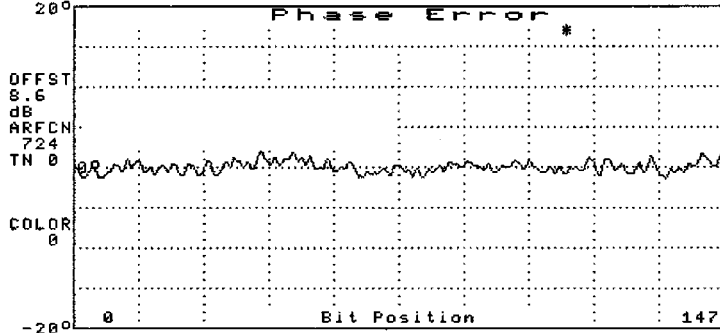




18:35:30 SEP 03, 1999

REF -4.2 dBm AT 10 dB

FC51300



REPEAT MEAS

NUMBER BURSTS

MEASURE AVG PK

Zoom

Physical Channel

Previous Menu

Status: SIGNAL Good
Phase: RMS: 0.6° Pk: 2.1°
FREQ 1972.600 MHz
Error: 1 Hz