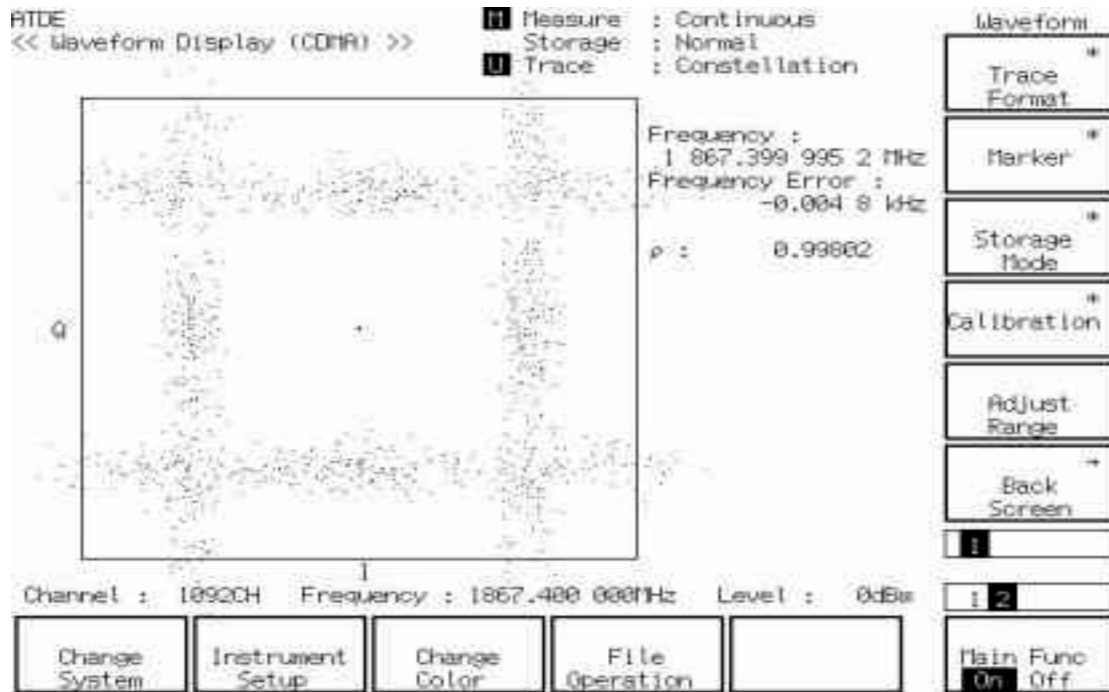


CDMA D Band



RTDE

<< All Measure (CDMA) >>

M Measure : Continuous
Storage : Normal

All Measure

U

Page(1/1)

Pass/Fail

Frequency

Carrier Frequency : 1 867.400 002 9 MHz

Carrier Frequency Error : 0.002 9 kHz Pass

Waveform Quality

ρ (Waveform Quality Factor) : 0.99704 Pass

RF Power

TX Power : -3.08 dBm Pass

Occupied Bandwidth (FFT)

Occupied Bandwidth : 1.26 MHz Pass

Spurious close to the Carrier (Spectrum)

Offset Frequency Lower Upper

750kHz : -50.42 dB -49.95 dB Pass

885kHz : -63.94 dB -66.25 dB Pass

900kHz : -65.48 dB -64.57 dB Pass

1250kHz : -64.10 dB -64.31 dB Pass

1980kHz : -67.41 dB -65.41 dB Pass

Total Judgement
Pass

*
Storage
Mode

*
Calibration

Adjust
Range

Back
Screen

1

Channel : 1092CH Frequency : 1867.400 000MHz Level : 0dBm

1 2

Change
System

Instrument
Setup

Change
Color

File
Operation

Main Func
On Off

RTDE

<< Setup Common Parameter (CDMA) >>

Frequency

Channel & Frequency : [1092CH] = [1967.400000MHz]

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

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

Main Func
On Off

ATDE

<< Spurious close Carrier(CDMA) >>

M

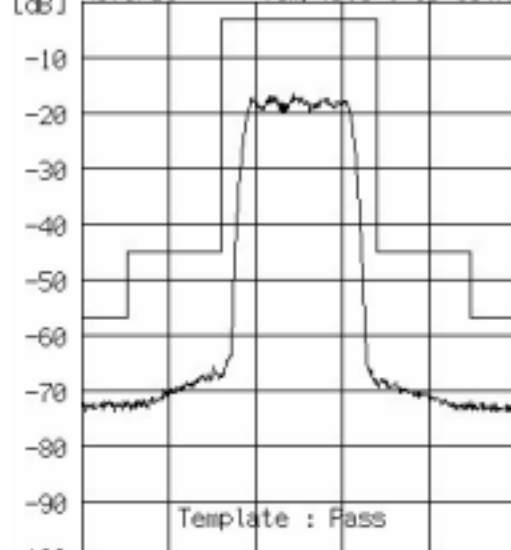
Storage : Average (10/ 10)

U

Method : Spectrum

Adj. CH

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



Tx Power :

-0.43 dBm

Offset Freq. vs Power

-1.980 MHz : -69.11 dBm

-0.900 MHz : -64.34 dBm

0.900 MHz : -65.51 dBm

1.980 MHz : -70.22 dBm

Marker :

Offset Frequency

-0.17 MHz

Power(RBW:30kHz)

-16.14 dBm

Measure
Method *

Unit *

Storage
Mode *

Calibration *

Adjust
Range

Back
Screen →

1 2

Span : 5.00MHz RBW: 30kHz

Channel : 1092CH Frequency : 1867.400 000MHz Level : 0dBm

1 2

Change
System

Instrument
Setup

Change
Color

File
Operation

Main Func
On Off

ATDE

<< Modulation Analysis (CDMA) >>

M

U

Storage : Average (10/ 10)

Frequency

Carrier Frequency : 1 867.400 002 9 MHz

Carrier Frequency Error : 0.002 9 kHz

Waveform Quality

ρ (Waveform Quality Factor) : 0.99737

Modulation

RMS Vector Error : 5.53 % (rms)

Peak Vector Error : 22.01 %

Phase Error : 2.48 deg. (rms)

Magnitude Error : 3.43 % (rms)

Origin Offset : -49.08 dB

Mod. Anal.

Waveform Display

Storage Mode

Calibration

Adjust Range

Back Screen

1

Channel : 1092CH

Frequency : 1867.400 000MHz

Level : 0dBm

1 2

Change System

Instrument Setup

Change Color

File Operation

Main Func

On Off

ATDE

<< Occupied Bandwidth (CDMA) >>

M

Storage : Average (10/ 10)

U

Method : FFT

Occ. BW

*

Measure
Method

[dB]

-10

-20

-30

-40

-50

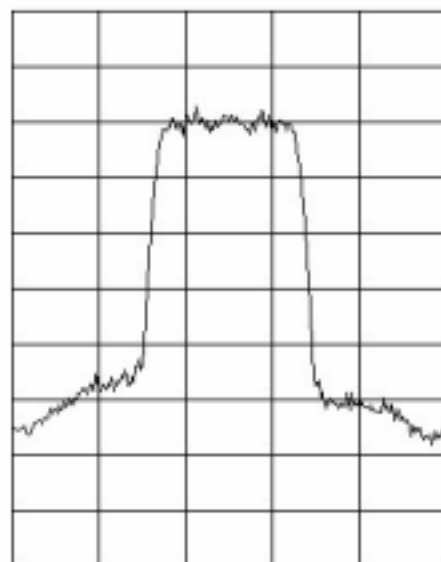
-60

-70

-80

-90

-100



Occ BW (99%) : 1.26 MHz

Upper Limit : 0.63 MHz

Lower Limit : -0.63 MHz

Center (Upper+Lower)/2 :
1867.401 MHz

*

Storage
Mode

*

Calibration

Adjust
Range

Back
Screen

1

Span : 3.91MHz

Channel : 1092CH Frequency : 1867.400 000MHz Level : 0dBm

1

2

Change
System

Instrument
Setup

Change
Color

File
Operation

Main Func
On Off

ATDE
<< RF Power (CDMA) >>

M
U Storage : Average (10/ 10)

Tx Power :
-0.36 dBm

RF Power

Window *

Marker *

Storage
Mode *

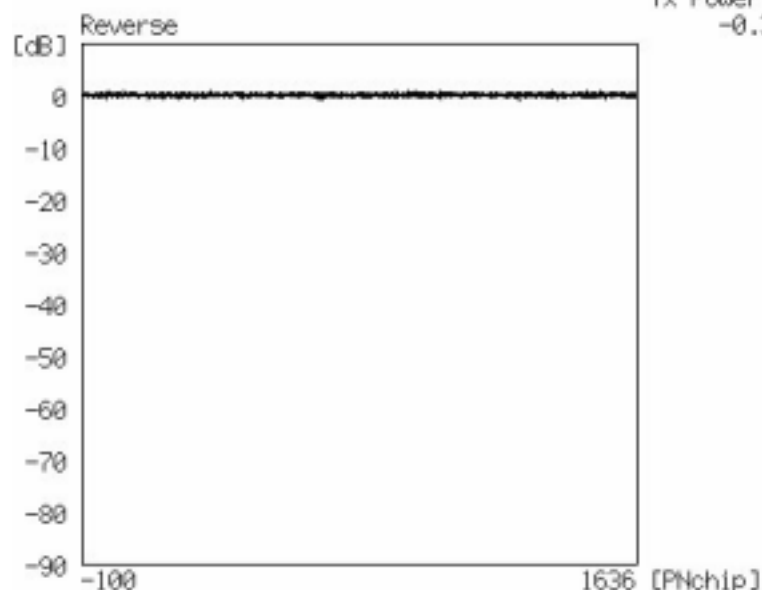
Calibration *

Adjust
Range

Back
Screen →

1 2

1 2



Channel : 1092CH Frequency : 1867.400 000MHz Level : 0dBm

Change
System

Instrument
Setup

Change
Color

File
Operation

Main Func
On Off

ATDE
<< Waveform Display (CDMA) >>

M Measure : Continuous
Storage : Normal
U Trace : Constellation

Waveform

Trace *
Format

Marker *

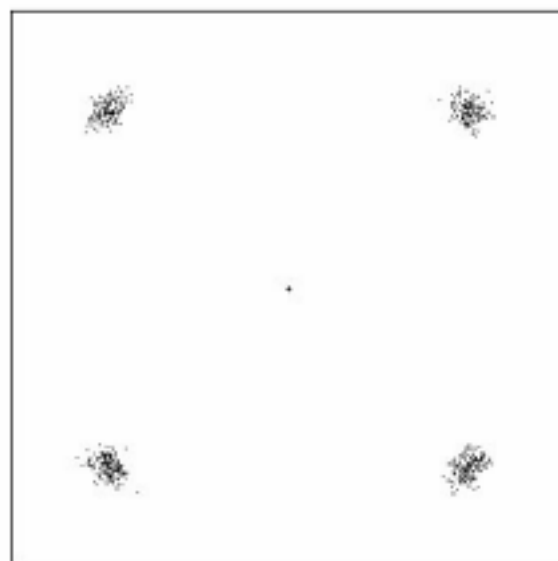
Storage *
Mode

Calibration *

Adjust
Range

Back
Screen

1



Frequency :
1 947.400 001 6 MHz
Frequency Error :
0.001 6 kHz
 ρ : 0.99739

Channel : 1092CH Frequency : 1947.400 000MHz Level : 0dBm

1 2

Change
System

Instrument
Setup

Change
Color

File
Operation

Main Func
On Off

ATDE

<< Code Domain Analysis (CDMA) >>

M Measure : Continuous
Storage : Normal

Code Domain

Vertical
Scale *

Marker *

Storage
Mode *

Calibration *

Adjust
Range

Back
Screen *

1

1 2

Main Func
On Off

Tx Power :

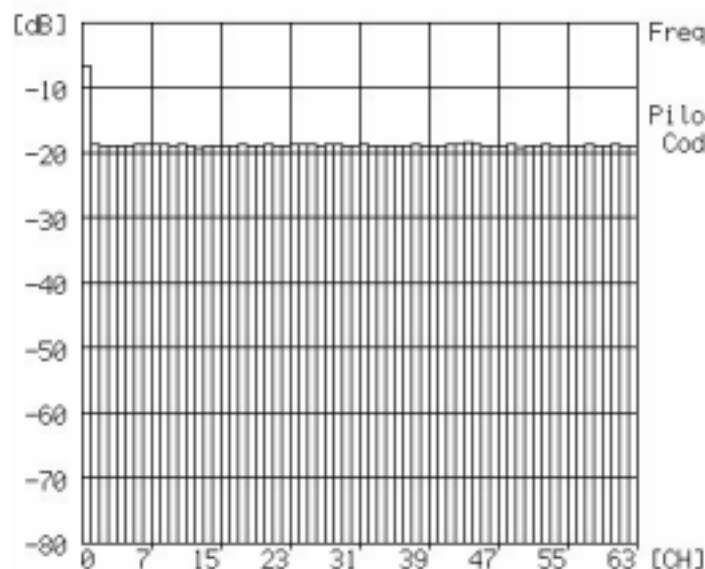
9.17 dBm

Frequency Error :

0.002 4 kHz

Pilot Channel

Code Domain Power :
-6.93 dB



Channel : 1092CH Frequency : 1947.400 000MHz Level : 5dBm

Change
System

Instrument
Setup

Change
Color

File
Operation

Main Func
On Off

ATDE
<< Code Domain Analysis (CDMA) >>

M Measure : Continuous
Storage : Normal

Code Domain

*
Vertical
Scale

*
Marker

*
Storage
Mode

*
Calibration

Adjust
Range

Back
Screen

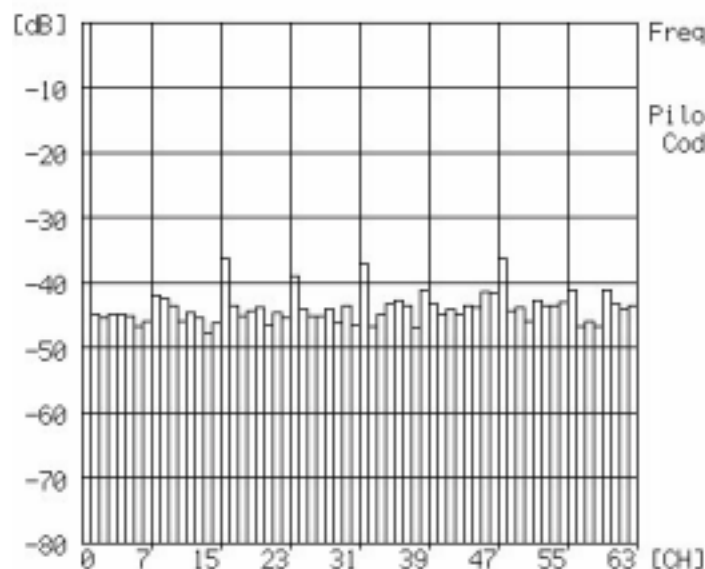
1

1 2

Main Func
On Off

Tx Power :
9.33 dBm
Frequency Error :
0.0015 kHz

Pilot Channel
Code Domain Power :
-0.01 dB



Channel : 1092CH Frequency : 1947.400 000MHz Level : 5dBm

Change
System

Instrument
Setup

Change
Color

File
Operation



ATDE

<< Spurious close Carrier(CDMA) >>

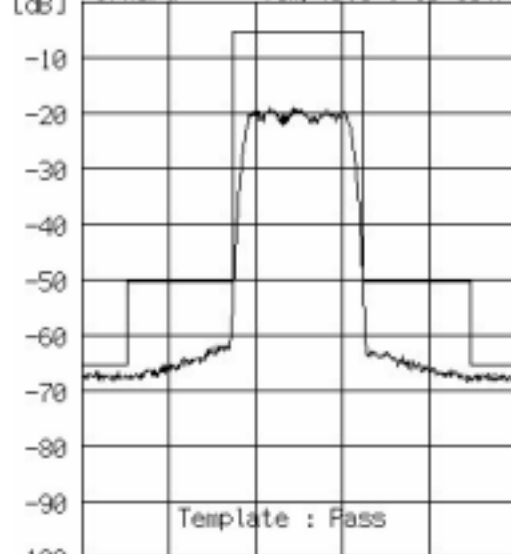
M

Storage : Average (10/ 10)

Method : Spectrum

Adj. CH

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



Tx Power : 9.39 dBm

Offset Freq. vs Power

-1.980 MHz : -52.85 dBm

-0.750 MHz : -36.62 dBm

0.750 MHz : -38.48 dBm

1.980 MHz : -52.76 dBm

Marker :

Offset Frequency -0.17 MHz

Power(RBW:30kHz) -6.54 dBm

Measure *

Unit *

Storage *

Calibration *

Adjust Range

Back Screen

1 2

Span : 5.00MHz RBW: 30kHz

Channel : 1092CH Frequency : 1947.400 000MHz Level : 5dBm

1 2

Change System

Instrument Setup

Change Color

File Operation

Main Func On Off

ATDE

<< Modulation Analysis (CDMA) >>

M

U

Storage : Average (7/ 10)

Mod. Anal.

Waveform
Display

Frequency

Carrier Frequency : 1 947.400 001 1 MHz

Carrier Frequency Error : 0.001 1 kHz

Waveform Quality

ρ (Waveform Quality Factor) : 0.99698

Modulation

RMS Vector Error : 5.59 % (rms)

Peak Vector Error : 15.83 %

Phase Error : 2.56 deg. (rms)

Magnitude Error : 3.36 % (rms)

Origin Offset : -48.87 dB

Storage
Mode

Calibration

Adjust
Range

Back
Screen

1

Channel : 1092CH Frequency : 1947.400 000MHz Level : 0dBm

1

2

Change
System

Instrument
Setup

Change
Color

File
Operation

Main Func
On Off

ATDE

<< Occupied Bandwidth (CDMA) >>

M

Storage : Average (10/ 10)

U

Method : FFT

Occ. BW

Measure
Method *

[dB]

-10

-20

-30

-40

-50

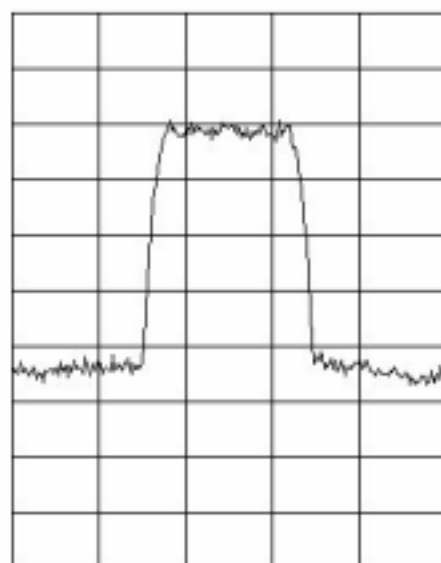
-60

-70

-80

-90

-100



Occ BW (99%) : 1.26 MHz

Upper Limit : 0.63 MHz

Lower Limit : -0.63 MHz

Center (Upper+Lower)/2 :

1947.399 MHz

Storage
Mode *

Calibration *

Adjust
Range

Back
Screen *

1

Span : 3.91MHz

Channel : 1092CH Frequency : 1947.400 000MHz Level : 0dBm

1 2

Change
System

Instrument
Setup

Change
Color

File
Operation

Main Func
On Off

ATDE
<< RF Power (CDMA) >>

M
U Storage : Average (10/ 10)

Tx Power :
9.24 dBm

RF Power

Window *

Marker *

Storage
Mode *

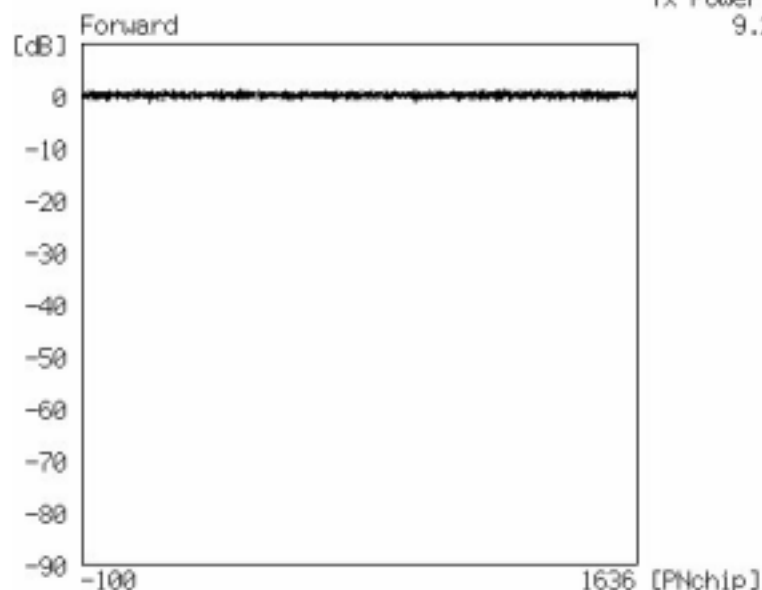
Calibration *

Adjust
Range

Back
Screen →

1 2

1 2



Channel : 1092CH Frequency : 1947.400 000MHz Level : 0dBm

Change
System

Instrument
Setup

Change
Color

File
Operation

Main Func
On Off

ATDE

<< Setup Common Parameter (CDMA) >>

Frequency

Channel & Frequency : [1092CH] = [1947.400000MHz]

Channel Spacing : [1.250000MHz]

Level

Reference Level : [0.0dBm]

Signal

Measuring Object : [Forward]

Data Rate : [9600bps/14400bps]

Modulation Analysis Length : [10] * 64 PNchip

Filter : [Filtering]

PN Synchronization

: [PN Search]

PN Offset : [0] * 64 PNchip

τ 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

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 : 1 947.399 996 7 MHz

Carrier Frequency Error : -0.003 3 kHz Pass

Waveform Quality

ρ (Waveform Quality Factor) : 0.96279 Pass

RF Power

TX Power : 3.45 dBm Pass

Occupied Bandwidth (FFT)

Occupied Bandwidth : 1.25 MHz Pass

Spurious close to the Carrier (Spectrum)

Offset Frequency Lower Upper

750kHz : -44.46 dB -46.96 dB Pass

885kHz : -51.46 dB -54.72 dB Pass

900kHz : -52.40 dB -54.49 dB Pass

1250kHz : -55.04 dB -53.04 dB Pass

1900kHz : -52.52 dB -55.52 dB Pass

Next
 Page

*
 Storage
 Mode

*
 Calibration

Adjust
 Range

Back
 Screen

Total Judgement
 Pass

1

Channel : 1092CH Frequency : 1947.400 000MHz Level : 0dBm

1 2

Change
 System

Instrument
 Setup

Change
 Color

File
 Operation

Main Func
 On Off