

CDMA Downlink

ATDE

<< Setup Common Parameter (CDMA) >>

```

Frequency
  Channel & Frequency      : [1092CH] = [ 870.750000MHz]
  Channel Spacing         : [ 1.250000MHz]

Level
  Reference Level         : [ 2.0dBm]

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

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

User Cal Factor         : [ 1.00dB]
  
```

TX Measure

All Measure →

Modulation Analysis →

RF Power →

Occupied Bandwidth →

Spurious close to the Carrier →

Code Domain Analysis →

1 2

1

TX Measure				
------------	--	--	--	--

Main Func On Off

ATDE

<< All Measure (CDMA) >>

M Measure : Single
Storage : Normal

U

Page(1/6) Pass/Fail

```

Frequency
  Carrier Frequency      : 870.749 999 2 MHz
  Carrier Frequency Error : -0.09 ppm Pass
Waveform Quality
  ρ(Waveform Quality Factor) : 0.99799 Pass
Modulation
  RMS Vector Error       : 2.60 % (rms) Pass
  Peak Vector Error      : 7.06 % Pass
  Phase Error            : 1.40 deg. (rms) Pass
  Magnitude Error        : 0.90 % (rms) Pass
  Origin Offset          : -28.21 dB Pass
RF Power (Smoothing Filter)
  TX Power               : 6.84 dBm Pass
Occupied Bandwidth (FFT)
  Occupied Bandwidth     : 1.27 MHz Pass
  
```

All Measure

Previous Page

Next Page

* Storage Mode

* Calibration

Adjust Range

Back Screen →

1

Total Judgement
Pass

Channel : 1092CH Frequency : 870.750 000MHz Level : 2dBm

1

Channel #	Frequency #	Level #		
-----------	-------------	---------	--	--

Main Func On Off

ATDE

<< Spurious close Carrier(CDMA) >>

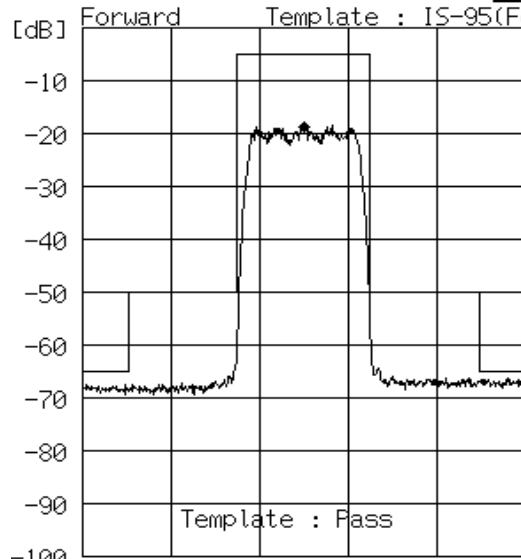
M

Storage : Average (10/ 10)

U

Method : Spectrum

Adj. CH



Tx Power : 6.72 dBm

Offset Freq. vs Power

-1.980 MHz	-57.04 dBm
-0.750 MHz	-46.83 dBm
0.750 MHz	-45.12 dBm
1.980 MHz	-55.04 dBm

Marker :

Offset Frequency 0.00 MHz

Power(RBW:30kHz) -6.94 dBm

Span : 5.00MHz RBW: 30kHz

Channel : 1092CH Frequency : 870.750 000MHz Level : 2dBm

Channel #	Frequency #	Level #	Span #	RBW #

- Measure Method *
- Unit *
- Storage Mode *
- Calibration *
- Adjust Range
- Back Screen →
- 1 2
- 1
- Main Func On Off

ATDE

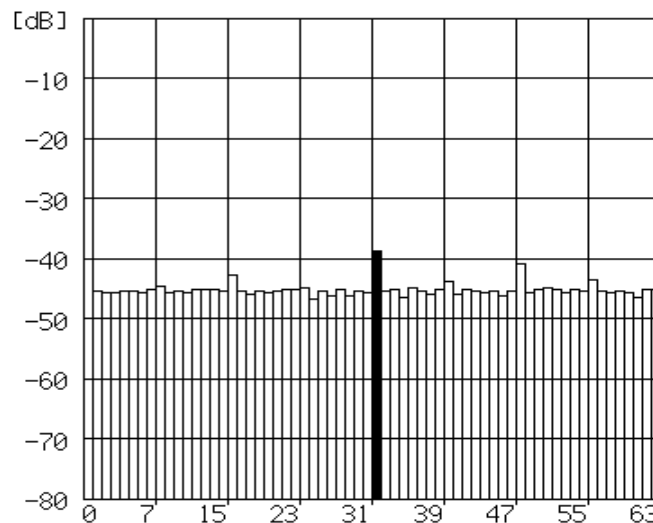
<< Code Domain Analysis (CDMA) >>

M

Storage : Average (10/ 10)

U

Code Domain



Tx Power : 6.70 dBm

Frequency Error : -0.000 5 kHz

Pilot Channel

Code Domain Power : -0.01 dB

Marker

Channel : 32

Code Domain Power : -38.87 dB

Waveform Quality : 0.00013

Time Offset : -8 ns

Phase Offset : 0.043 rad

Channel #	Frequency #	Level #		

- Vertical Scale *
- Marker *
- Storage Mode *
- Calibration *
- Adjust Range
- Back Screen →
- 1
- 1
- Main Func On Off

ATDE
 << Modulation Analysis (CDMA) >>

M Measure : Single
 Storage : Normal
U

Frequency
 Carrier Frequency : 870.749 999 0 MHz
 Carrier Frequency Error : -0.001 0 kHz

Waveform Quality
 ρ(Waveform Quality Factor) : 0.99815

Modulation
 RMS Vector Error : 2.21 % (rms)
 Peak Vector Error : 6.29 %
 Phase Error : 1.18 deg. (rms)
 Magnitude Error : 0.79 % (rms)
 Origin Offset : -28.33 dB

Mod. Anal.

→
 Waveform
 Display

*
 Storage
 Mode

*
 Calibration

Adjust
 Range

→
 Back
 Screen

1

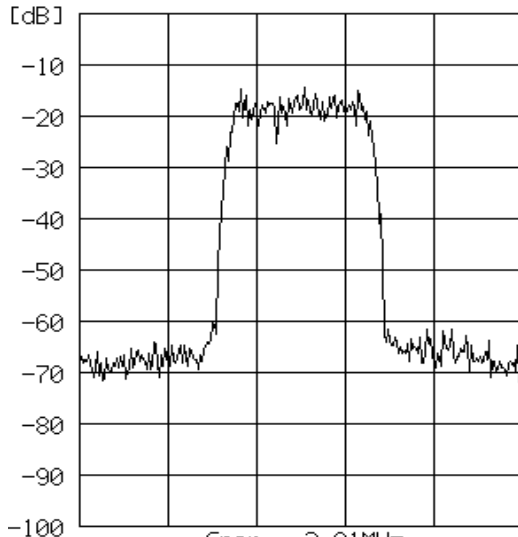
Channel : 1092CH Frequency : 870.750 000MHz Level : 2dBm

Channel #	Frequency #	Level #		

Main Func
 On Off

ATDE
 << Occupied Bandwidth (CDMA) >>

M Measure : Single
 Storage : Normal
U Method : FFT



OCC BW (99%) : 1.25 MHz
 Upper Limit : 0.63 MHz
 Lower Limit : -0.62 MHz
 Center (Upper+Lower)/2 : 870.758 MHz

Occ. BW

*
 Measure
 Method

*
 Storage
 Mode

*
 Calibration

Adjust
 Range

→
 Back
 Screen

1

Span : 3.91MHz
 Channel : 1092CH Frequency : 870.750 000MHz Level : 2dBm

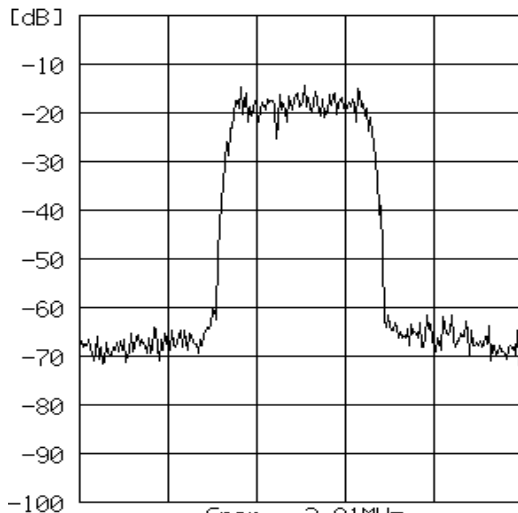
Channel #	Frequency #	Level #		

Main Func
 On Off

ATDE
<< Occupied Bandwidth (CDMA) >>

M Measure : Single
Storage : Normal
U Method : FFT

Occ. BW



OCC BW (99%) : 1.25 MHz
Upper Limit : 0.63 MHz
Lower Limit : -0.62 MHz
Center (Upper+Lower)/2 : 870.758 MHz

Measure Method *

Storage Mode *

Calibration *

Adjust Range

Back Screen →

1

1

Main Func On Off

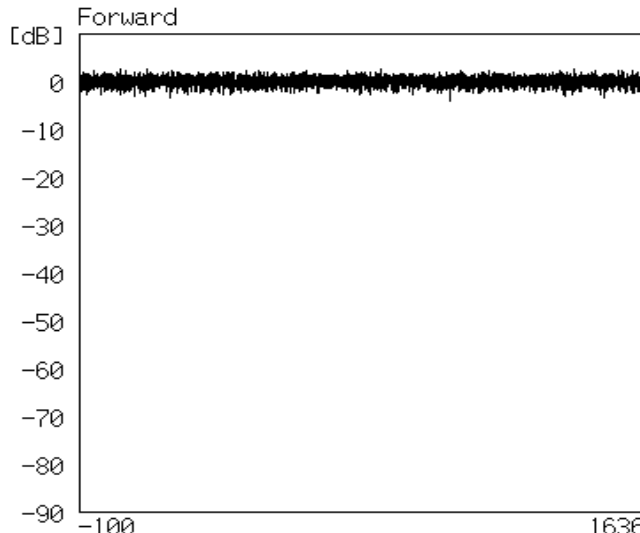
Span : 3.91MHz
Channel : 1092CH Frequency : 870.750 000MHz Level : 2dBm

Channel #	Frequency #	Level #		

ATDE
<< RF Power (CDMA) >>

M Storage : Average (10/ 10)
U

RF Power



Tx Power : 6.88 dBm

Window *

Marker *

Storage Mode *

Calibration *

Adjust Range

Back Screen →

1 2

1

Main Func On Off

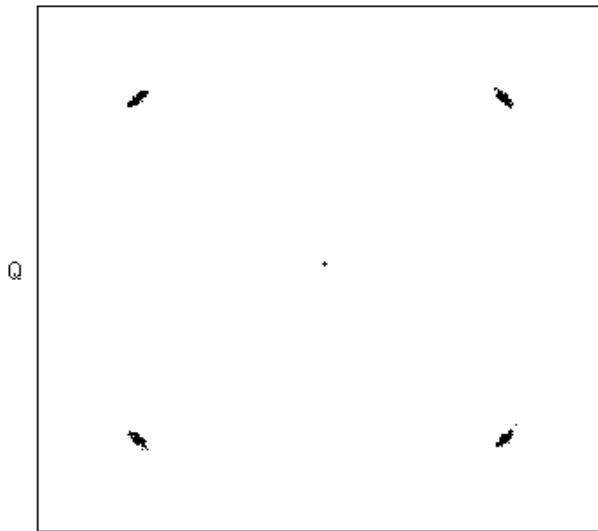
Channel : 1092CH Frequency : 870.750 000MHz Level : 2dBm

Channel #	Frequency #	Level #		

ATDE
 << Waveform Display (CDMA) >>

M Measure : Single
 Storage : Over Write
U Trace : Constellation

Trace Format



Frequency :
 870.749 999 6 MHz
 Frequency Error :
 -0.000 4 kHz
 ρ : 0.99796

- Constellation
-
- Vector Error
- Phase Error
- Magnitude Error
- return
- 1

Channel : 1092CH Frequency : 870.750 000MHz Level : 2dBm

Channel #	Frequency #	Level #		

- 1
- Main Func
On Off

ATDE
 << Setup Common Parameter (CDMA) >>

Frequency
 Channel & Frequency : [1092CH] = [881.500000MHz]
 Channel Spacing : [1.250000MHz]

Level
 Reference Level : [7.0dBm]

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

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

User Cal Factor : [1.00dB]

- TX Measure
- All Measure →
- Modulation Analysis →
- RF Power →
- Occupied Bandwidth →
- Spurious → close to the Carrier
- Code Domain Analysis →
- 1 2

TX Measure				

- 1
- Main Func
On Off

ATDE
 << All Measure (CDMA) >>

M Measure : Single
 Storage : Normal

All Measure

U Page(1/6) Pass/Fail

Frequency			
Carrier Frequency	:	881.500 001 5 MHz	
Carrier Frequency Error	:	0.17 ppm	Pass
Waveform Quality			
ρ(Waveform Quality Factor)	:	0.99806	Pass
Modulation			
RMS Vector Error	:	2.46 % (rms)	Pass
Peak Vector Error	:	7.61 %	Pass
Phase Error	:	1.30 deg. (rms)	Pass
Magnitude Error	:	0.96 % (rms)	Pass
Origin Offset	:	-28.02 dB	Pass
RF Power (Smoothing Filter)			
TX Power	:	7.30 dBm	Pass
Occupied Bandwidth (FFT)			
Occupied Bandwidth	:	1.27 MHz	Pass

- Previous Page
- Next Page
- Storage *
Mode
- Calibration *
- Adjust Range
- Back Screen →
- 1

Total Judgement
 Pass

Channel : 1092CH Frequency : 881.500 000MHz Level : 3dBm

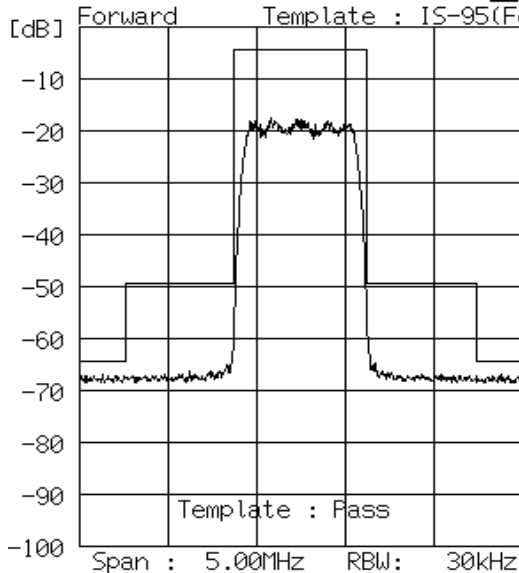
Channel #	Frequency #	Level #		

- 1
- Main Func
On Off

ATDE
 << Spurious close Carrier(CDMA) >>

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

IS-95



Tx Power : 7.41 dBm

Offset Freq. vs Power

-1.980 MHz	: -55.50 dBm
-0.750 MHz	: -45.48 dBm
0.750 MHz	: -45.40 dBm
1.980 MHz	: -55.48 dBm

Marker :
 Offset Frequency 0.00 MHz
 Power(RBW:30kHz) -6.77 dBm

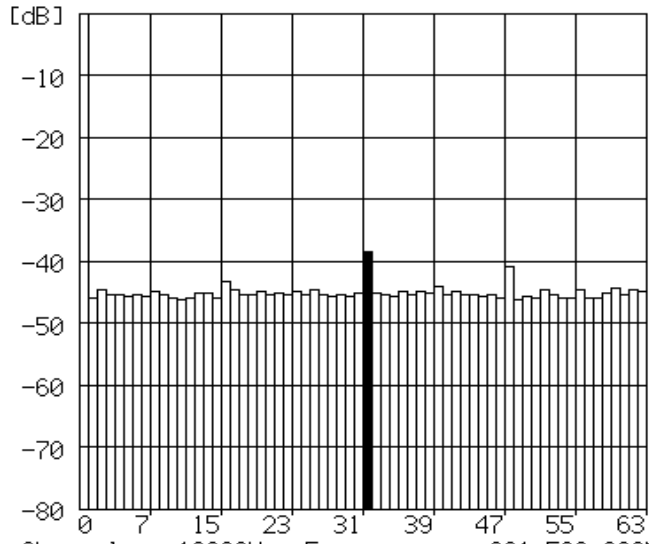
- Relative Template
-
-
-
-
- return
- 1

Channel : 1092CH Frequency : 881.500 000MHz Level : 2dBm

Channel #	Frequency #	Level #	Span #	RBW #

- 1
- Main Func
On Off

ATDE
 << Code Domain Analysis (CDMA) >> **M** Storage : Average (10/ 10)
U



Tx Power : 7.32 dBm
 Frequency Error : 0.000 1 kHz
 Pilot Channel Code Domain Power : -0.01 dB
 Marker Channel : 32
 Code Domain Power : -38.45 dB
 Waveform Quality : 0.00014
 Time Offset : 12 ns
 Phase Offset : 0.085 rad

- Code Domain
- * Vertical Scale
- * Marker
- * Storage Mode
- * Calibration
- Adjust Range
- Back Screen
- 1

Channel : 1092CH Frequency : 881.500 000MHz Level : 2dBm

Channel #	Frequency #	Level #		

- 1
- Main Func On Off

ATDE
 << Modulation Analysis (CDMA) >> **M** Measure : Single
U Storage : Normal

Frequency
 Carrier Frequency : 881.499 998 8 MHz
 Carrier Frequency Error : -0.001 2 kHz
 Waveform Quality
 ρ(Waveform Quality Factor) : 0.99809
 Modulation
 RMS Vector Error : 2.37 % (rms)
 Peak Vector Error : 5.84 %
 Phase Error : 1.24 deg. (rms)
 Magnitude Error : 0.94 % (rms)
 Origin Offset : -28.21 dB

- Mod. Anal.
- Waveform Display
- Storage Mode
- * Calibration
- Adjust Range
- Back Screen
- 1

Channel : 1092CH Frequency : 881.500 000MHz Level : 3dBm

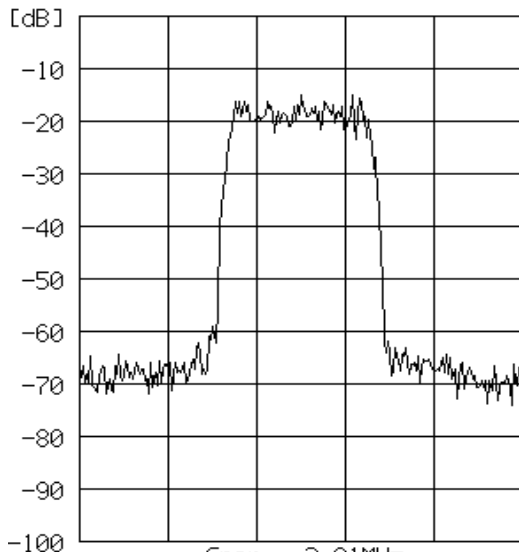
Channel #	Frequency #	Level #		

- 1
- Main Func On Off

ATDE
<< Occupied Bandwidth (CDMA) >>

M Measure : Single
Storage : Normal
U Method : FFT

Occ. BW



OCC BW (99%) : 1.27 MHz
Upper Limit : 0.63 MHz
Lower Limit : -0.63 MHz
Center (Upper+Lower)/2 : 881.501 MHz

- Measure Method *
- Storage Mode *
- Calibration *
- Adjust Range
- Back Screen →
- 1

Span : 3.91MHz
Channel : 1092CH Frequency : 881.500 000MHz Level : 3dBm

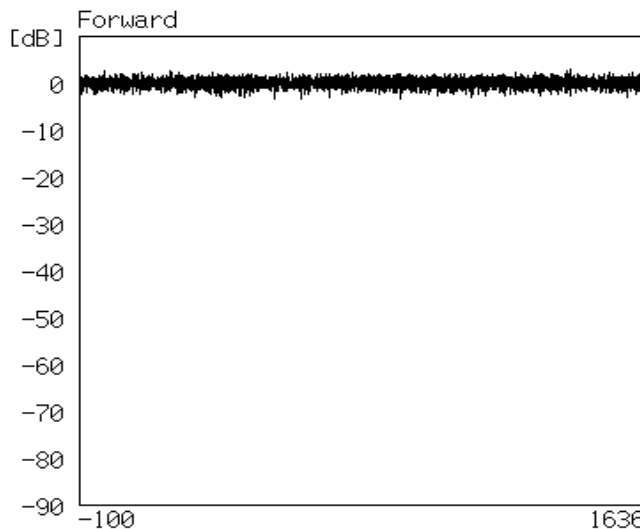
Channel #	Frequency #	Level #		

- 1
- Main Func On Off

ATDE
<< RF Power (CDMA) >>

M Storage : Average (10/ 10)
U Tx Power : 7.32 dBm

RF Power



Channel : 1092CH Frequency : 881.500 000MHz Level : 3dBm

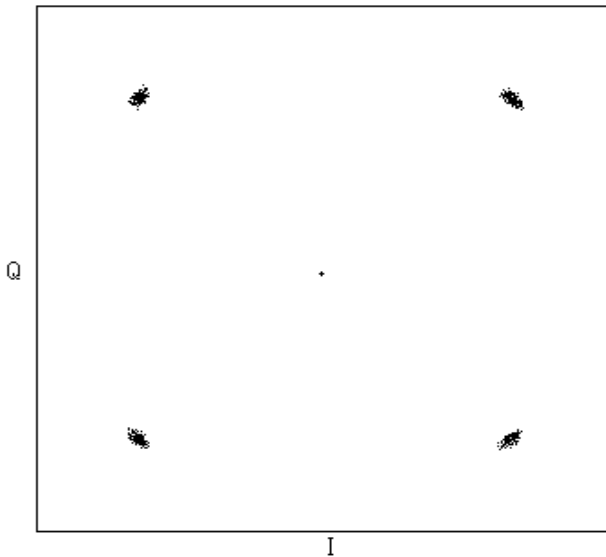
Channel #	Frequency #	Level #		

- Window *
- Marker *
- Storage Mode *
- Calibration *
- Adjust Range
- Back Screen →
- 1 2

- 1
- Main Func On Off

ATDE
 << Waveform Display (CDMA) >>

M Measure : Single
 Storage : Normal
U Trace : Constellation



Frequency : 881.500 000 7 MHz
 Frequency Error : 0.000 7 kHz
 ρ : 0.99796

- Waveform
- Trace Format *
- Marker *
- Storage Mode *
- Calibration *
- Adjust Range
- Back Screen →
- 1

Channel : 1092CH Frequency : 881.500 000MHz Level : 2dBm

Channel #	Frequency #	Level #		

- 1
- Main Func On Off

ATDE
 << Setup Common Parameter (CDMA) >>

Frequency
 Channel & Frequency : [750CH] = [892.500000MHz]
 Channel Spacing : [1.250000MHz]

Level
 Reference Level : [2.0dBm]

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

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

User Cal Factor : [1.00dB]

- TX Measure
- All Measure →
- Modulation Analysis →
- RF Power →
- Occupied Bandwidth →
- Spurious → close to the Carrier
- Code Domain Analysis →
- 1 2

TX Measure				

- 1
- Main Func On Off

ATDE
 << All Measure (CDMA) >>

M Measure : Single
 Storage : Normal

All Measure

U Page(1/6) Pass/Fail

Frequency			
Carrier Frequency	:	892.500 002 9 MHz	
Carrier Frequency Error	:	0.32 ppm	Pass
Waveform Quality			
ρ(Waveform Quality Factor)	:	0.99793	Pass
Modulation			
RMS Vector Error	:	2.57 % (rms)	Pass
Peak Vector Error	:	6.92 %	Pass
Phase Error	:	1.29 deg. (rms)	Pass
Magnitude Error	:	1.26 % (rms)	Pass
Origin Offset	:	-28.19 dB	Pass
RF Power (Smoothing Filter)			
TX Power	:	5.90 dBm	Pass
Occupied Bandwidth (FFT)			
Occupied Bandwidth	:	1.27 MHz	Pass

- Previous Page
- Next Page
- Storage *
Mode
- Calibration *
- Adjust Range
- Back Screen →
- 1
- 1
- Main Func On Off

Total Judgement
 Pass

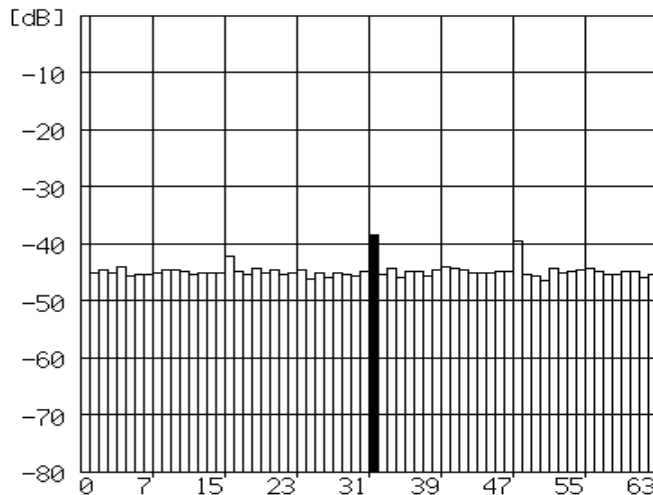
Channel : 750CH Frequency : 892.500 000MHz Level : 2dBm

Channel #	Frequency #	Level #		

ATDE
 << Code Domain Analysis (CDMA) >>

M Storage : Average (10/ 10)
U

Code Domain



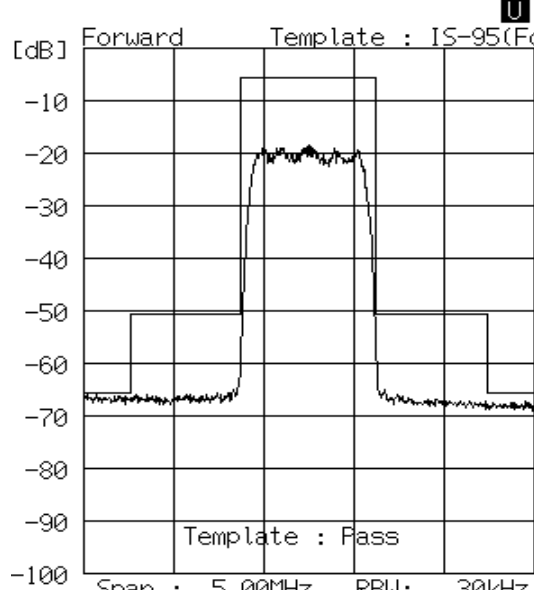
Tx Power : 6.30 dBm
 Frequency Error : -0.000 1 kHz
 Pilot Channel Code Domain Power : -0.01 dB
 Marker Channel : 32
 Code Domain Power : -38.43 dB
 Waveform Quality : 0.00014
 Time Offset : 6 ns
 Phase Offset : 0.022 rad

- Vertical Scale *
- Marker *
- Storage *
Mode
- Calibration *
- Adjust Range
- Back Screen →
- 1
- 1
- Main Func On Off

Channel : 750CH Frequency : 892.500 000MHz Level : 2dBm

Channel #	Frequency #	Level #		

ATDE
 << Spurious close Carrier(CDMA) >> **M** Storage : Average (10/ 10)



Tx Power : 6.32 dBm

Offset Freq. vs Power

-1.980 MHz	-55.35 dBm
-0.750 MHz	-45.98 dBm
0.750 MHz	-45.33 dBm
1.980 MHz	-56.55 dBm

Marker :

Offset Frequency 0.00 MHz

Power(RBW:30kHz) -7.44 dBm

Span : 5.00MHz RBW: 30kHz
 Channel : 750CH Frequency : 892.500 000MHz Level : 2dBm

Channel #	Frequency #	Level #	Span #	RBW #

Adj. CH

Measure Method *

Unit *

Storage Mode *

Calibration *

Adjust Range

Back Screen →

1 2

1

Main Func On Off

ATDE
 << Modulation Analysis (CDMA) >> **M** Measure : Single
 Storage : Normal

U

Frequency

Carrier Frequency : 892.500 000 3 MHz

Carrier Frequency Error : 0.000 3 kHz

Waveform Quality

ρ (Waveform Quality Factor) : 0.99794

Modulation

RMS Vector Error : 2.48 % (rms)

Peak Vector Error : 6.79 %

Phase Error : 1.25 deg. (rms)

Magnitude Error : 1.17 % (rms)

Origin Offset : -28.00 dB

Channel : 750CH Frequency : 892.500 000MHz Level : 2dBm

Channel #	Frequency #	Level #		

Mod. Anal.

Waveform Display →

Storage Mode *

Calibration *

Adjust Range

Back Screen →

1

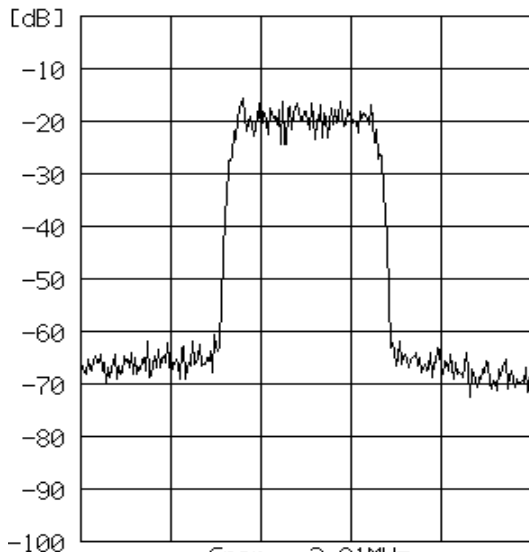
1

Main Func On Off

ATDE
<< Occupied Bandwidth (CDMA) >>

M Measure : Single
Storage : Normal
U Method : FFT

Occ. BW



OCC BW (99%) : 1.27 MHz
Upper Limit : 0.63 MHz
Lower Limit : -0.64 MHz
Center (Upper+Lower)/2 : 892.499 MHz

Measure Method *

Storage Mode *

Calibration *

Adjust Range

Back Screen →

1

1

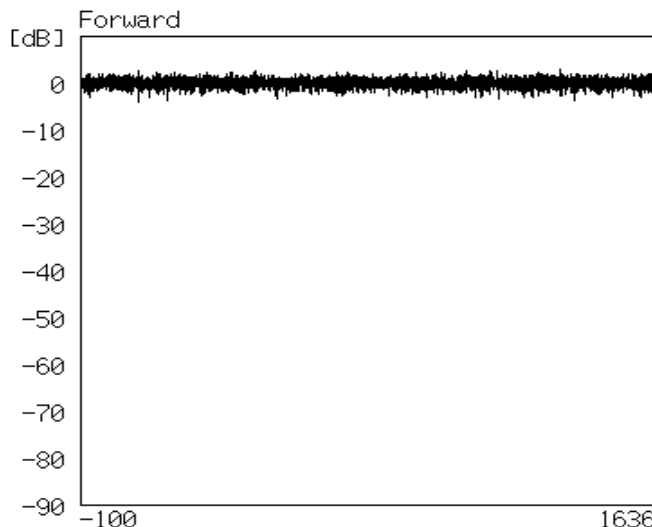
Main Func On Off

Channel #	Frequency #	Level #		

ATDE
<< RF Power (CDMA) >>

M Storage : Average (10/ 10)
U Tx Power : 5.90 dBm

RF Power



Window *

Marker *

Storage Mode *

Calibration *

Adjust Range

Back Screen →

1 2

1

Main Func On Off

Channel #	Frequency #	Level #		

ATDE
<< Waveform Display (CDMA) >>

M Measure : Continuous
Storage : Normal
U Trace : Constellation

Waveform

Trace *
Format

Marker *

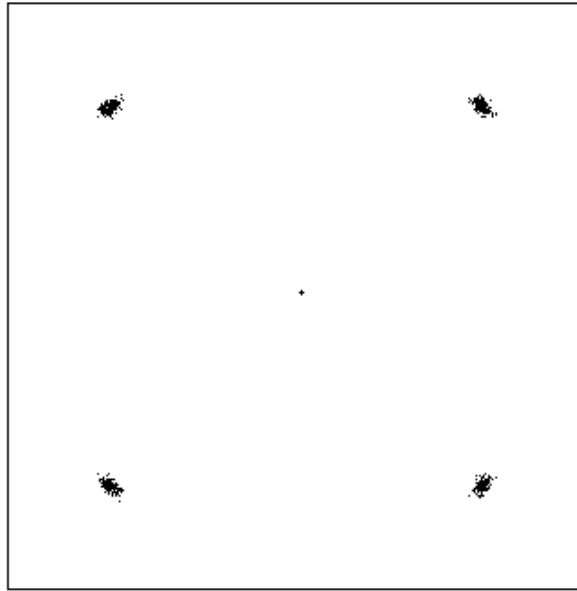
Storage *
Mode

Calibration *

Adjust
Range

Back
Screen →

1



Frequency :
892.499 999 5 MHz
Frequency Error :
-0.000 6 kHz
 ρ : 0.99778

Channel : 750CH Frequency : 892.500 000MHz Level : -6dBm

Channel #	Frequency #	Level #		

Main Func
On **Off**

CDMA Uplink

ATDE

<< Setup Common Parameter (CDMA) >>

```

Frequency
  Channel & Frequency      : [ 25CH ] = [ 825.750000MHz ]
  Channel Spacing         : [ 1.250000MHz ]

Level
  Reference Level         : [ -9.0dBm ]

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

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

User Cal Factor         : [ 1.00dB ]
  
```

TX Measure

All Measure →

Modulation Analysis →

RF Power →

Occupied Bandwidth →

Spurious close to the Carrier →

Code Domain Analysis →

1 2

1

TX Measure				
------------	--	--	--	--

Main Func On **Off**

ATDE

<< All Measure (CDMA) >>

M

U

Storage : Average (10/ 10)

Page(1/2) Pass/Fail

```

Frequency
  Carrier Frequency      : 825.749 998 4 MHz
  Carrier Frequency Error : -0.20 ppm Pass
Waveform Quality
  ρ(Waveform Quality Factor) : 0.99786 Pass
Modulation
  RMS Vector Error       : 2.67 % (rms) Pass
  Peak Vector Error      : 8.92 % Pass
  Phase Error            : 1.42 deg. (rms) Pass
  Magnitude Error        : 0.98 % (rms) Pass
  Origin Offset          : -28.02 dB Pass
RF Power (Smoothing Filter)
  TX Power               : -9.61 dBm Pass
Occupied Bandwidth (FFT)
  Occupied Bandwidth     : 1.27 MHz Pass
  
```

Storage Mode

Normal

Average

Average Count #

Refresh Interval **Every Once**

return

Total Judgement
Pass

1

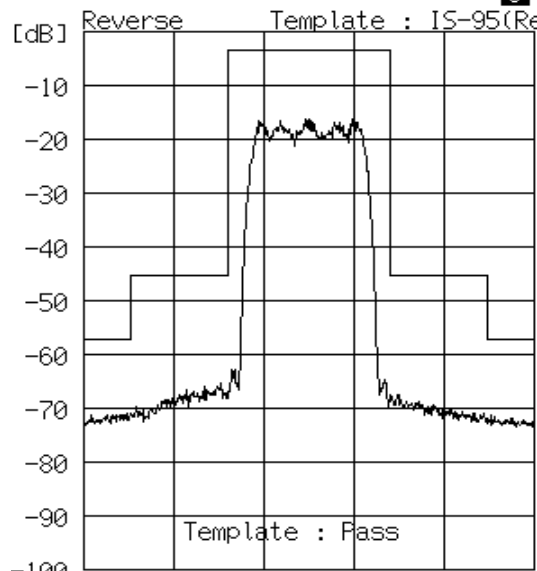
Channel : 25CH Frequency : 825.750 000MHz Level : -9dBm

1

Channel #	Frequency #	Level #		
-----------	-------------	---------	--	--

Main Func On **Off**

ATDE
 << Spurious close Carrier(CDMA) >> Storage : Average (10/ 10)



Tx Power : -9.56 dBm

Offset Freq. vs Power
 -1.980 MHz : -77.14 dBm
 -0.900 MHz : -74.25 dBm
 0.900 MHz : -74.04 dBm
 1.980 MHz : -78.04 dBm

Marker :
 Offset Frequency : 0.00 MHz
 Power(RBW:30kHz) : -23.33 dBm

Span : 5.00MHz RBW: 30kHz
 Channel : 25CH Frequency : 825.750 000MHz Level : -9dBm

Channel #	Frequency #	Level #	Span #	RBW #

Adj. CH

Measure Method *

Unit *

Storage Mode *

Calibration *

Adjust Range

Back Screen →

1 2

1

Main Func On Off

ATDE
 << Modulation Analysis (CDMA) >>

Frequency
 Carrier Frequency : 825.749 999 4 MHz
 Carrier Frequency Error : -0.000 6 kHz

Waveform Quality
 ρ(Waveform Quality Factor) : 0.99772

Modulation
 RMS Vector Error : 3.01 % (rms)
 Peak Vector Error : 8.99 %
 Phase Error : 1.63 deg. (rms)
 Magnitude Error : 0.96 % (rms)
 Origin Offset : -28.15 dB

Channel : 25CH Frequency : 825.750 000MHz Level : -9dBm

Channel #	Frequency #	Level #		

Mod. Anal.

Waveform Display →

Storage Mode *

Calibration *

Adjust Range

Back Screen →

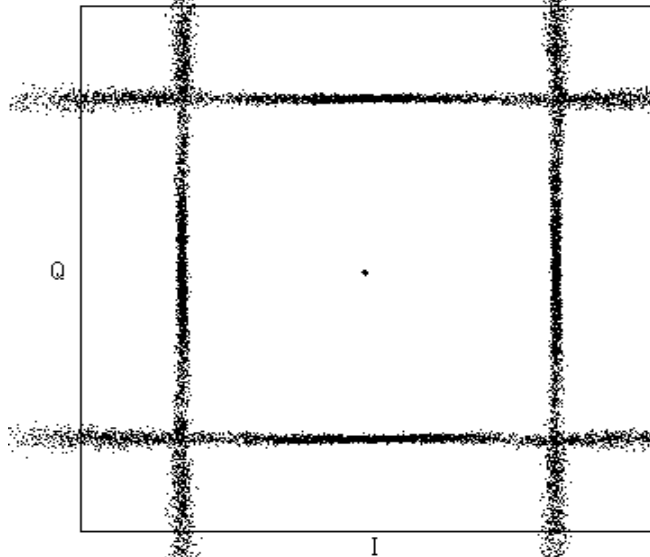
1

Main Func On Off

ATDE
<< Waveform Display (CDMA) >>

M Measure : Continuous
Storage : Over Write
U Trace : Constellation

Storage Mode



Frequency : 825.750 001 3 MHz
Frequency Error : 0.001 3 kHz
 ρ : 0.99816

Normal

Over Write

Filter to Nyquist
On Off

return

1

1

Main Func
On Off

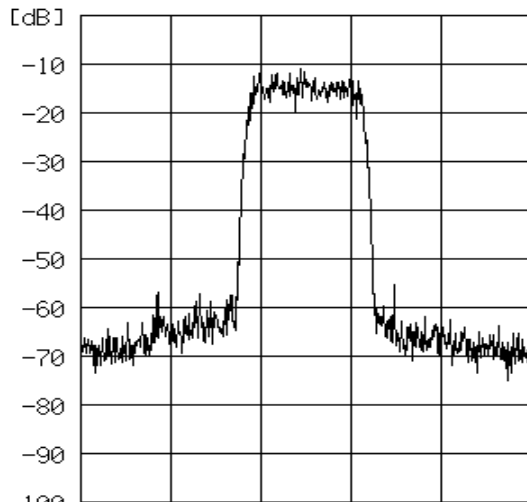
Channel : 25CH Frequency : 825.750 000MHz Level : -9dBm

Channel #	Frequency #	Level #		

ATDE
<< Occupied Bandwidth (CDMA) >>

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

Occ. BW



OCC BW (99%) : 1.30 MHz
Upper Limit : 0.65 MHz
Lower Limit : -0.65 MHz
Center (Upper+Lower)/2 : 825.749 MHz

Measure Method *

Storage Mode *

Calibration *

Adjust Range

Back Screen →

1

1

Main Func
On Off

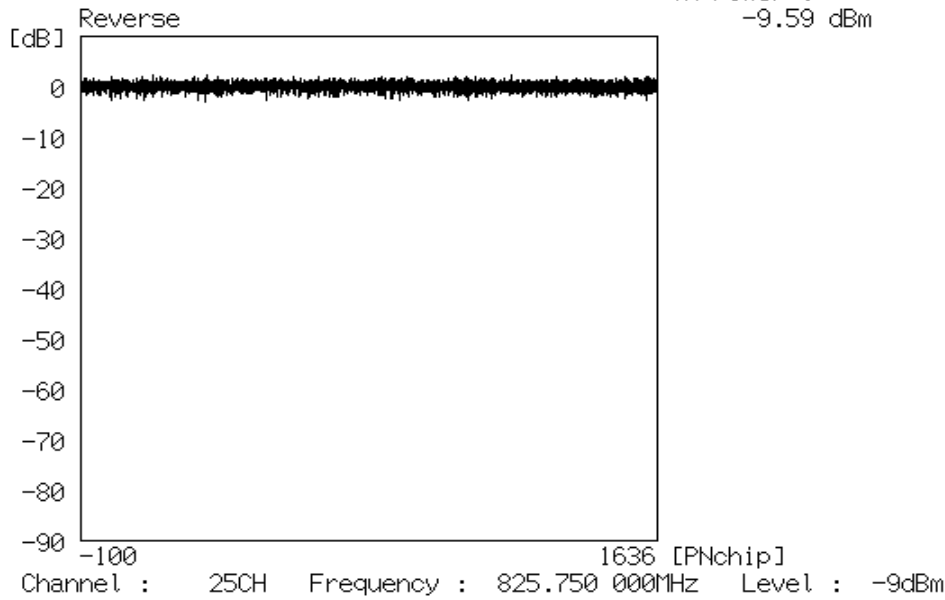
Span : 5.00MHz
Channel : 25CH Frequency : 825.750 000MHz Level : -9dBm

Channel #	Frequency #	Level #		

ATDE
<< RF Power (CDMA) >>

M Storage : Average (10/ 10)
U Tx Power :
-9.59 dBm

RF Power



- Window *
- Marker *
- Storage Mode *
- Calibration *
- Adjust Range
- Back Screen →
- 1 2

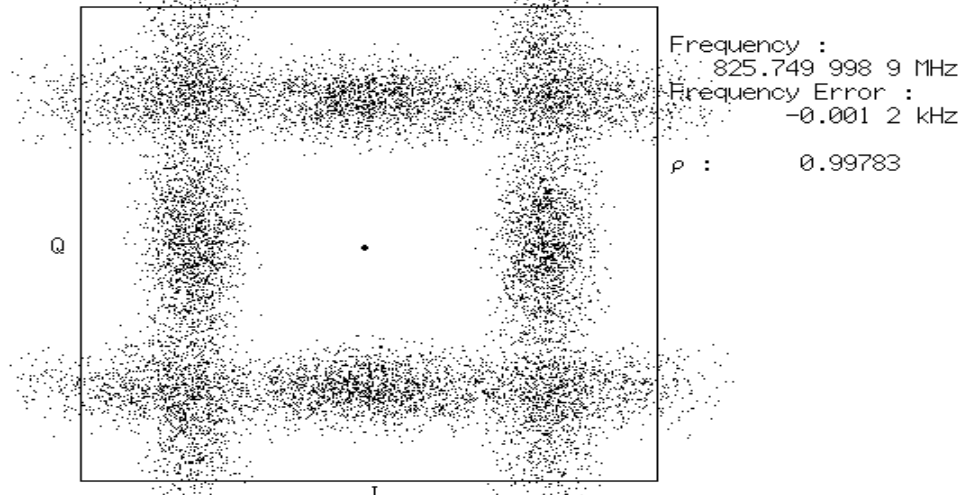
Channel #	Frequency #	Level #		

- 1
- Main Func On Off

ATDE
<< Waveform Display (CDMA) >>

M Measure : Continuous
Storage : Over Write
U Trace : Constellation

Storage Mode



- Normal
- Over Write
- Filter to Nyquist On Off
- return
- 1

Channel : 25CH Frequency : 825.750 000MHz Level : -9dBm

Channel #	Frequency #	Level #		

- 1
- Main Func On Off

ATDE

<< Setup Common Parameter (CDMA) >>

Frequency
 Channel & Frequency : [383CH] = [836.500000MHz]
 Channel Spacing : [1.250000MHz]

Level
 Reference Level : [-9.0dBm]

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

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

User Cal Factor : [1.00dB]

TX Measure

All Measure →

Modulation Analysis →

RF Power →

Occupied Bandwidth →

Spurious → close to the Carrier

Code Domain Analysis →

1 2

1

TX Measure				
------------	--	--	--	--

Main Func On Off

ATDE

<< All Measure (CDMA) >>

M Measure : Single
U Storage : Normal

Page(1/2) Pass/Fail

Frequency			
Carrier Frequency	: 836.500 000 5 MHz		
Carrier Frequency Error	: 0.06 ppm	Pass	
Waveform Quality			
ρ(Waveform Quality Factor)	: 0.99808	Pass	
Modulation			
RMS Vector Error	: 2.07 % (rms)	Pass	
Peak Vector Error	: 6.00 %	Pass	
Phase Error	: 1.03 deg. (rms)	Pass	
Magnitude Error	: 1.04 % (rms)	Pass	
Origin Offset	: -27.82 dB	Pass	
RF Power (Smoothing Filter)			
TX Power	: -9.70 dBm	Pass	
Occupied Bandwidth (FFT)			
Occupied Bandwidth	: 1.27 MHz	Pass	

All Measure

Previous Page

Next Page

Storage Mode *

Calibration *

Adjust Range

Back Screen →

1

Total Judgement Pass

Channel : 383CH Frequency : 836.500 000MHz Level : -9dBm

1

Channel #	Frequency #	Level #		
-----------	-------------	---------	--	--

Main Func On Off

ATDE
<< Modulation Analysis (CDMA) >>

M Measure : Single
U Storage : Normal

Mod. Anal.

Frequency
Carrier Frequency : 836.500 008 3 MHz
Carrier Frequency Error : 0.008 3 kHz

Waveform Quality
 ρ (Waveform Quality Factor) : 0.99797

Modulation
RMS Vector Error : 2.56 % (rms)
Peak Vector Error : 7.55 %
Phase Error : 1.36 deg. (rms)
Magnitude Error : 0.97 % (rms)
Origin Offset : -28.17 dB

Waveform
Display →

Storage
Mode *

Calibration *

Adjust
Range

Back
Screen →

1

Channel : 383CH Frequency : 836.500 000MHz Level : -9dBm

Channel #	Frequency #	Level #		

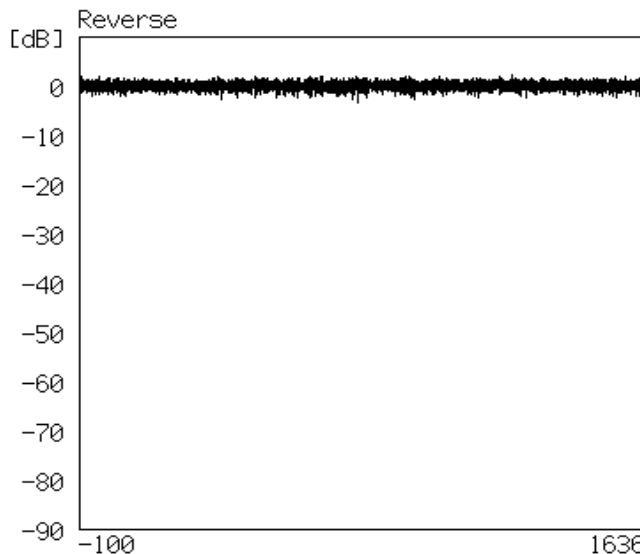
1

Main Func
On Off

ATDE
<< RF Power (CDMA) >>

M Storage : Average (10/ 10)
U

RF Power



Tx Power :
-9.72 dBm

Window *

Marker *

Storage
Mode *

Calibration *

Adjust
Range

Back
Screen →

1 2

Channel : 383CH Frequency : 836.500 000MHz Level : -9dBm

Channel #	Frequency #	Level #		

1

Main Func
On Off

ATDE

<< Setup Common Parameter (CDMA) >>

Frequency
 Channel & Frequency : [750CH] = [847.750000MHz]
 Channel Spacing : [1.250000MHz]

Level
 Reference Level : [-9.0dBm]

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

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

User Cal Factor : [1.00dB]

TX Measure

All Measure →

Modulation Analysis →

RF Power →

Occupied Bandwidth →

Spurious → close to the Carrier

Code Domain Analysis →

1 2

1

TX Measure				
------------	--	--	--	--

Main Func On Off

ATDE

<< All Measure (CDMA) >>

M Measure : Continuous
U Storage : Normal

Page(1/2) Pass/Fail

Frequency
 Carrier Frequency : 847.749 995 0 MHz
 Carrier Frequency Error : -0.59 ppm Pass

Waveform Quality
 ρ(Waveform Quality Factor) : 0.99509 Pass

Modulation
 RMS Vector Error : 7.27 % (rms) Pass
 Peak Vector Error : 18.65 % Pass
 Phase Error : 2.53 deg. (rms) Pass
 Magnitude Error : 5.79 % (rms) Pass
 Origin Offset : -28.50 dB Pass

RF Power (Smoothing Filter)
 TX Power : -9.87 dBm Pass
 Occupied Bandwidth (FFT)
 Occupied Bandwidth : 1.27 MHz Pass

All Measure

Previous Page

Next Page

Storage Mode *

Calibration *

Adjust Range

Back Screen →

1

Total Judgement Pass

Channel : 750CH Frequency : 847.750 000MHz Level : -9dBm

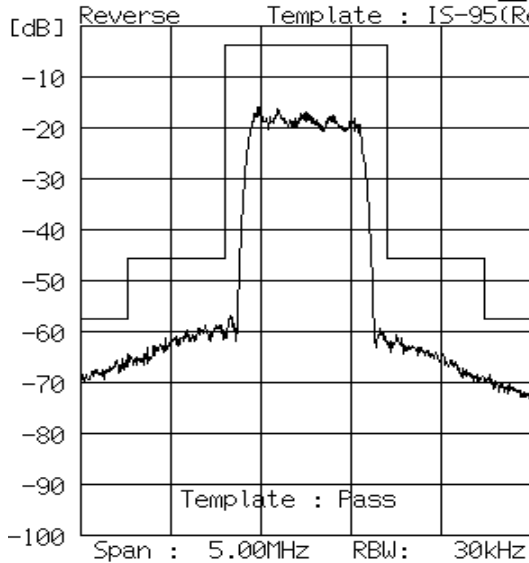
1

Channel #	Frequency #	Level #		
-----------	-------------	---------	--	--

Main Func On Off

ATDE **M**
 << Spurious close Carrier(CDMA) >> Storage : Average (10/ 10)
U Method : Spectrum

Storage Mode



Tx Power : -9.78 dBm
 Offset Freq. vs Power
 -1.980 MHz : -73.14 dBm
 -0.900 MHz : -67.43 dBm
 0.900 MHz : -68.52 dBm
 1.980 MHz : -75.37 dBm

Marker :
 Offset Frequency 0.00 MHz
 Power(RBW:30kHz) -23.99 dBm

Normal

Average

Average #
Count

return

1

1

Main Func
On Off

Channel : 750CH Frequency : 847.750 000MHz Level : -9dBm

Channel #	Frequency #	Level #	Span #	RBW #

ATDE **M** Measure : Continuous
 << Modulation Analysis (CDMA) >> Storage : Normal

Mod. Anal.

Frequency
 Carrier Frequency : 847.750 000 1 MHz
 Carrier Frequency Error : 0.000 1 kHz

Waveform
Display

Waveform Quality
 ρ (Waveform Quality Factor) : 0.99492

Storage *
Mode

Modulation
 RMS Vector Error : 7.29 % (rms)
 Peak Vector Error : 18.31 %
 Phase Error : 2.52 deg. (rms)
 Magnitude Error : 5.82 % (rms)
 Origin Offset : -28.02 dB

Calibration *

Adjust
Range

Back
Screen

1

Channel : 750CH Frequency : 847.750 000MHz Level : -9dBm

1

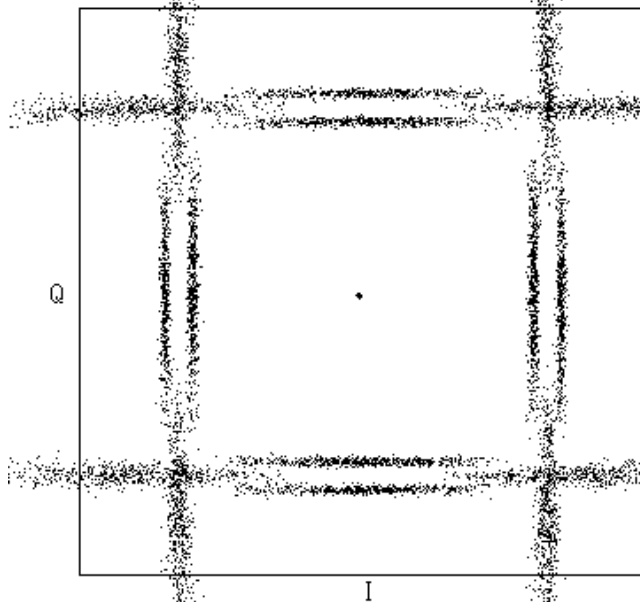
Channel #	Frequency #	Level #		

Main Func
On Off

ATDE
 << Waveform Display (CDMA) >>

M Measure : Continuous
 Storage : Over Write
U Trace : Constellation

Storage Mode



Frequency :
 847.749 997 6 MHz
 Frequency Error :
 -0.002 4 kHz
 ρ : 0.99484

Normal

Over Write

Filter to Nyquist
 On Off

return

1

Channel : 750CH Frequency : 847.750 000MHz Level : -9dBm

Channel #	Frequency #	Level #		

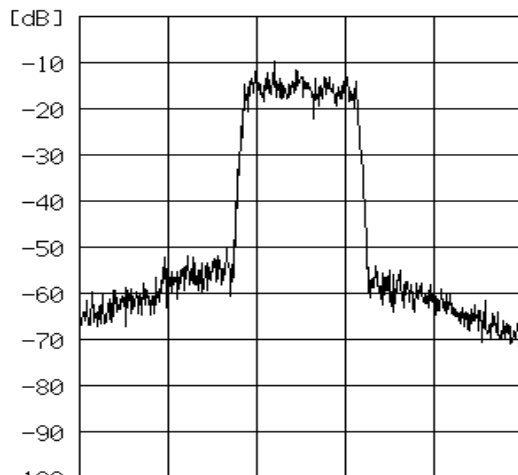
1

Main Func
 On Off

ATDE
 << Occupied Bandwidth (CDMA) >>

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

Method



OCC BW (99%) : 1.30 MHz
 Upper Limit : 0.65 MHz
 Lower Limit : -0.66 MHz
 Center (Upper+Lower)/2 :
 847.745 MHz

Spectrum

FFT

return

1

Span : 5.00MHz
 Channel : 750CH Frequency : 847.750 000MHz Level : -9dBm

Channel #	Frequency #	Level #		

1

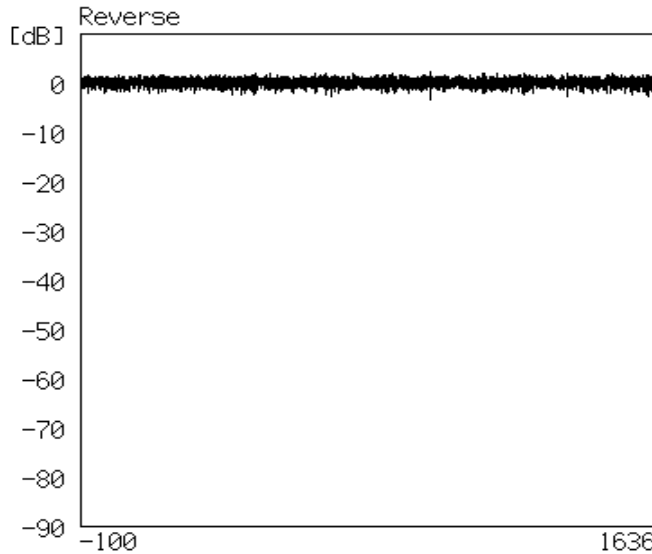
Main Func
 On Off

ATDE
<< RF Power (CDMA) >>

M Storage : Average (10/ 10)
U

Tx Power :
-9.71 dBm

RF Power



Channel : 750CH Frequency : 847.750 000MHz Level : -9dBm

Channel #	Frequency #	Level #		

Window *

Marker *

Storage Mode *

Calibration *

Adjust Range

Back Screen →

1 2

1

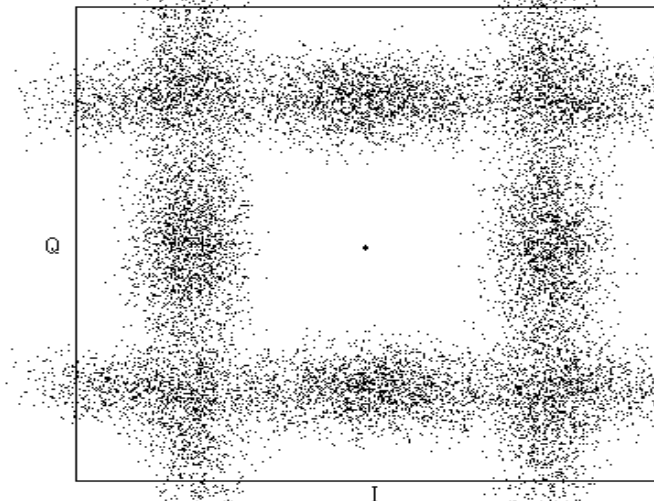
Main Func On Off

ATDE
<< Waveform Display (CDMA) >>

M Measure : Continuous
Storage : Over Write
U Trace : Constellation

Frequency :
847.750 000 6 MHz
Frequency Error :
0.000 6 kHz
 ρ : 0.99513

Storage Mode



Channel : 750CH Frequency : 847.750 000MHz Level : -9dBm

Channel #	Frequency #	Level #		

Normal

Over Write

Filter to Nyquist On Off

return

1

1

Main Func On Off