

## **ATTACHMENT D – TEST PLOTS**

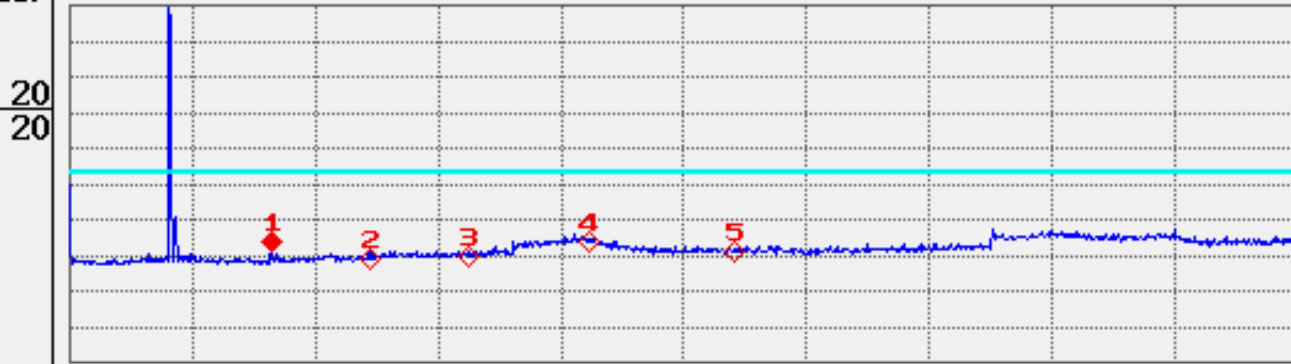
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## ■ GSM850 MODE (128 CH.) Conducted Spurious

EZ1000(CH:128)

REF 33.0 dBm DL -13.0 dBm MKR 1.640 GHz  
10 dB/ \*A\_Max Posi B\_Blank Norm -33.46 dBm

LOF



START 9 kHz

STOP 10.000 GHz

\*RBW 1 MHz

\*VBW 1 MHz

SWP 150 ms

ATT 30 dB

### Multi Marker List

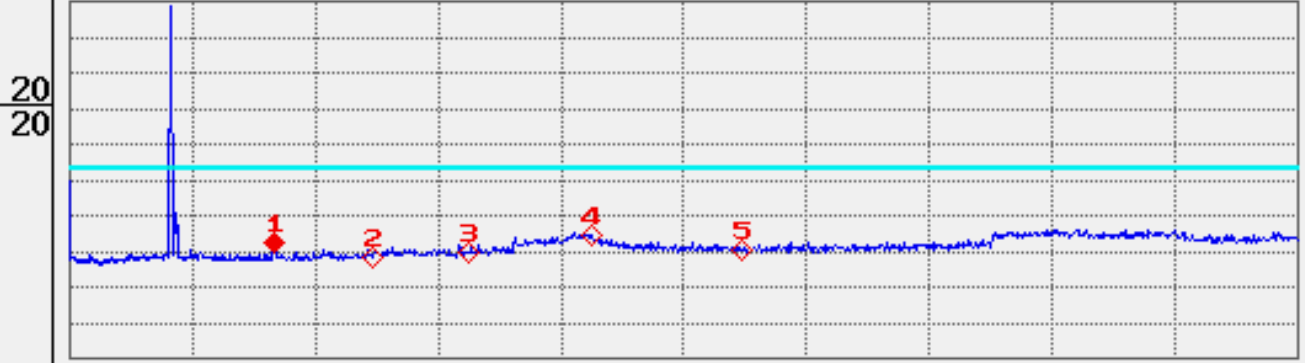
|     |           |            |
|-----|-----------|------------|
| 1:  | 1.640 GHz | -33.46 dBm |
| 2:  | 2.450 GHz | -37.75 dBm |
| 3:  | 3.240 GHz | -37.34 dBm |
| 4:  | 4.230 GHz | -33.38 dBm |
| 5:  | 5.420 GHz | -36.15 dBm |
| 6:  |           |            |
| 7:  |           |            |
| 8:  |           |            |
| 9:  |           |            |
| 10: |           |            |
| Δ:  |           |            |

## ■ GSM850 MODE (190 CH.) Conducted Spurious

EZ1000(CH:190)

REF 33.0 dBm DL -13.0 dBm MKR 1.670 GHz  
10 dB/ \*A\_Max Posi B\_Blank Norm -34.85 dBm

LOF



START 9 kHz

STOP 10.000 GHz

\*RBW 1 MHz

\*VBW 1 MHz

SWP 150 ms

ATT 30 dB

### Multi Marker List

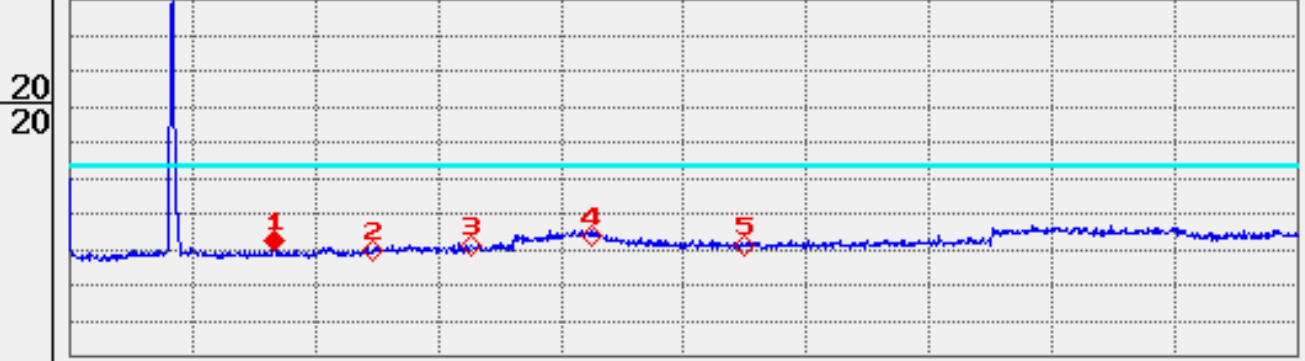
|     |           |            |
|-----|-----------|------------|
| 1:  | 1.670 GHz | -34.85 dBm |
| 2:  | 2.460 GHz | -38.93 dBm |
| 3:  | 3.250 GHz | -37.27 dBm |
| 4:  | 4.240 GHz | -32.70 dBm |
| 5:  | 5.480 GHz | -36.45 dBm |
| 6:  |           |            |
| 7:  |           |            |
| 8:  |           |            |
| 9:  |           |            |
| 10: |           |            |
| Δ:  |           |            |

## ■ GSM850 MODE (251 CH.) Conducted Spurious

EZ1000(CH:251)

REF 33.0 dBm DL -13.0 dBm MKR 1.670 GHz  
10 dB/ \*A\_Max Posi B\_Blank Norm -34.85 dBm

LOF



START 9 kHz STOP 10.000 GHz

\*RBW 1 MHz \*VBW 1 MHz SWP 150 ms ATT 30 dB

### Multi Marker List

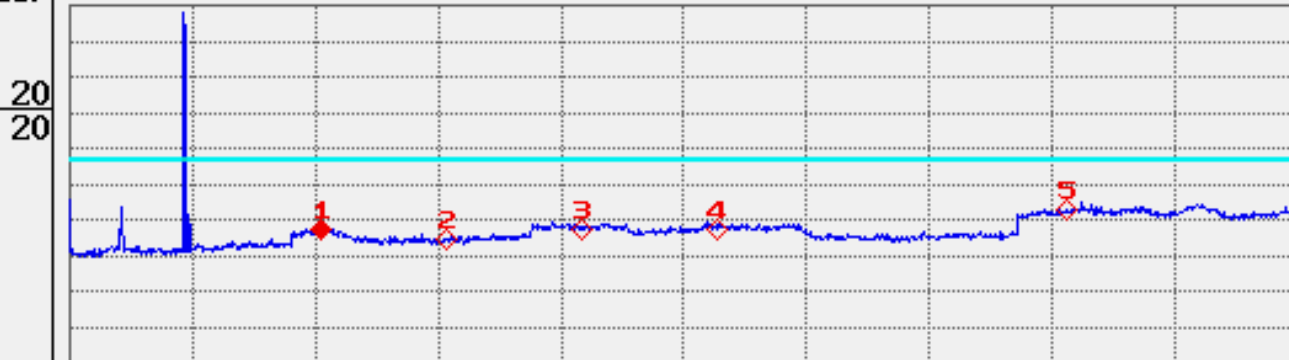
|     |           |            |
|-----|-----------|------------|
| 1:  | 1.670 GHz | -34.85 dBm |
| 2:  | 2.470 GHz | -37.47 dBm |
| 3:  | 3.260 GHz | -36.20 dBm |
| 4:  | 4.250 GHz | -32.98 dBm |
| 5:  | 5.490 GHz | -36.03 dBm |
| 6:  |           |            |
| 7:  |           |            |
| 8:  |           |            |
| 9:  |           |            |
| 10: |           |            |
| Δ:  |           |            |

# ■ GSM1900 MODE (512 CH.) Conducted Spurious

EZ1000(CH:512)

REF 30.0 dBm DL -13.0 dBm MKR 4.08 GHz  
10 dB/ \*A\_Max Posi B\_Blank Norm -32.92 dBm

LOF



START 9 kHz

STOP 20.00 GHz

\*RBW 1 MHz

\*VBW 1 MHz

SWP 300 ms

ATT 30 dB

## Multi Marker List

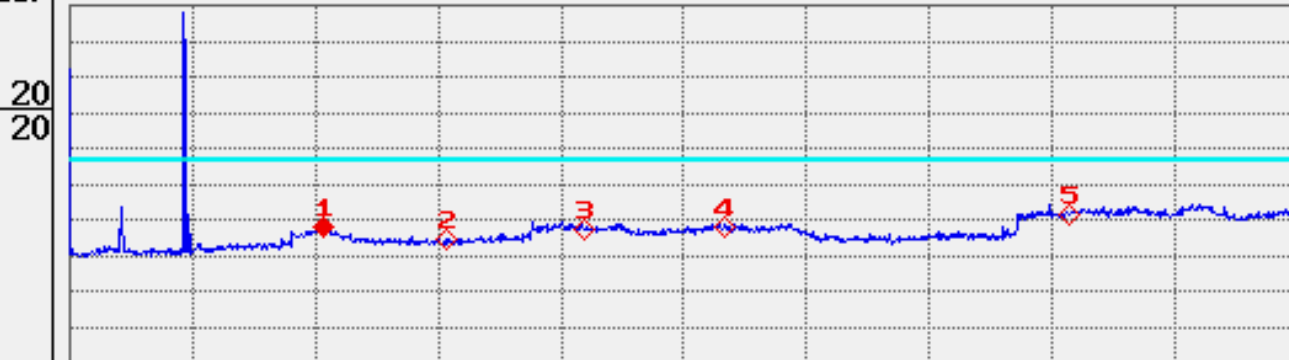
|     |           |            |
|-----|-----------|------------|
| 1:  | 4.08 GHz  | -32.92 dBm |
| 2:  | 6.12 GHz  | -35.20 dBm |
| 3:  | 8.34 GHz  | -32.41 dBm |
| 4:  | 10.54 GHz | -32.66 dBm |
| 5:  | 16.24 GHz | -27.41 dBm |
| 6:  |           |            |
| 7:  |           |            |
| 8:  |           |            |
| 9:  |           |            |
| 10: |           |            |
| Δ:  |           |            |

# ■ GSM1900 MODE (661 CH.) Conducted Spurious

EZ1000(CH:661)

REF 30.0 dBm DL -13.0 dBm MKR 4.12 GHz  
10 dB/ \*A\_Max Posi B\_Blank Norm -32.07 dBm

LOF



START 9 kHz

STOP 20.00 GHz

\*RBW 1 MHz

\*VBW 1 MHz

SWP 300 ms

ATT 30 dB

## Multi Marker List

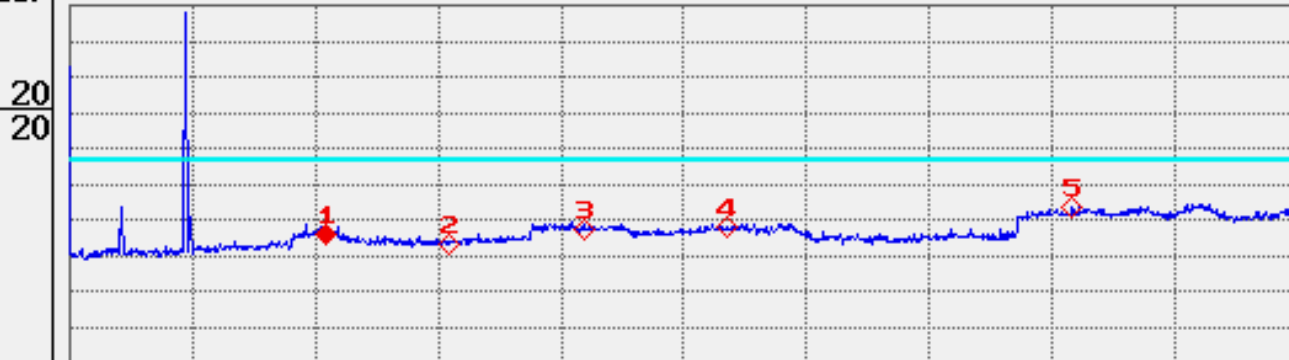
|     |           |            |
|-----|-----------|------------|
| 1:  | 4.12 GHz  | -32.07 dBm |
| 2:  | 6.14 GHz  | -35.81 dBm |
| 3:  | 8.36 GHz  | -32.80 dBm |
| 4:  | 10.66 GHz | -32.13 dBm |
| 5:  | 16.28 GHz | -28.52 dBm |
| 6:  |           |            |
| 7:  |           |            |
| 8:  |           |            |
| 9:  |           |            |
| 10: |           |            |
| Δ:  |           |            |

# ■ GSM1900 MODE (810 CH.) Conducted Spurious

EZ1000(CH:810)

REF 30.0 dBm DL -13.0 dBm MKR 4.16 GHz  
10 dB/ \*A\_Max Posi B\_Blank Norm -33.84 dBm

LOF



START 9 kHz

STOP 20.00 GHz

\*RBW 1 MHz

\*VBW 1 MHz

SWP 300 ms

ATT 30 dB

## Multi Marker List

|     |           |            |
|-----|-----------|------------|
| 1:  | 4.16 GHz  | -33.84 dBm |
| 2:  | 6.16 GHz  | -36.81 dBm |
| 3:  | 8.38 GHz  | -32.90 dBm |
| 4:  | 10.70 GHz | -32.14 dBm |
| 5:  | 16.32 GHz | -26.76 dBm |
| 6:  |           |            |
| 7:  |           |            |
| 8:  |           |            |
| 9:  |           |            |
| 10: |           |            |
| Δ:  |           |            |

# ■ Occupied Bandwidth -26dBc BW (KHz) (GSM850 128 CH)

EZ1000(CH:128)

REF 33.0 dBm

10 dB/

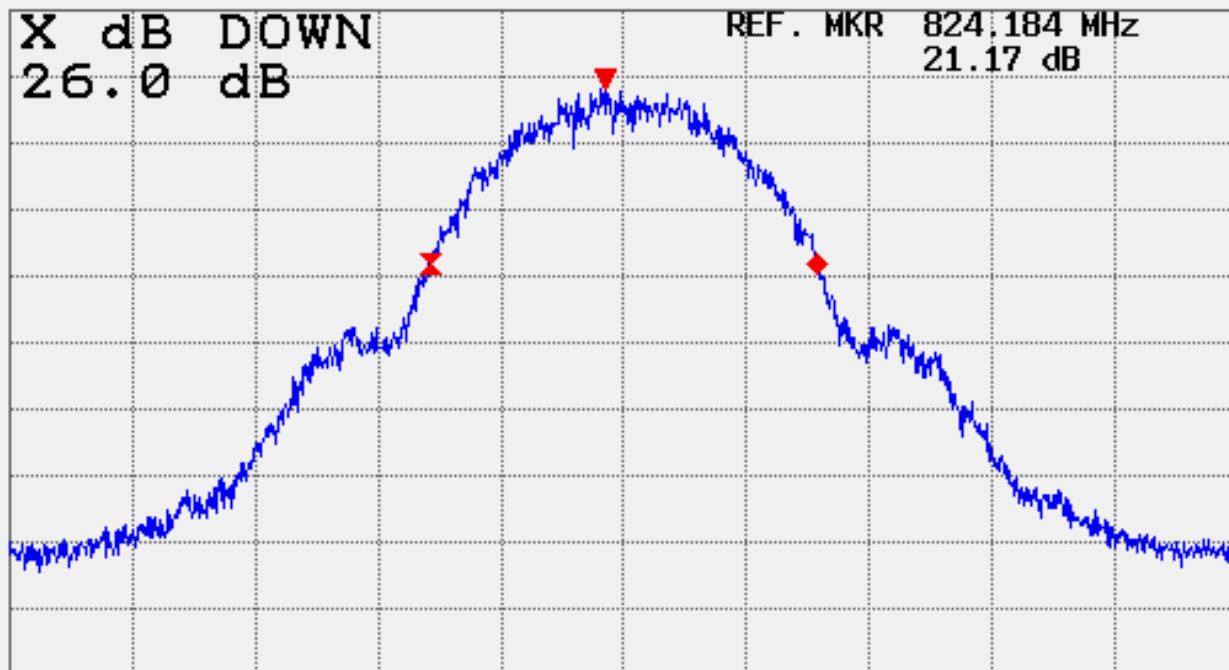
\*A\_PwAvg Posi

MKRA 314 kHz

-0.12 dB

LOF

X dB DOWN  
26.0 dB

REF. MKR 824.184 MHz  
21.17 dB


CENTER 824.200 MHz

SPAN 1.000 MHz

\*RBW 3 kHz

\*VBW 10 kHz

\*SWP 5.0 s

ATT 30 dB

OBW (GSM850: MS Link)

|       | Frequency   | OBW (99.00%) | Judge |
|-------|-------------|--------------|-------|
| Low : | 824.074 MHz | 252.0 kHz    | PASS  |
| High: | 824.326 MHz |              |       |

■ Occupied Bandwidth -26dBc BW (KHz) (GSM850 190 CH)

EZ1000(CH:190)

REF 33.0 dBm

10 dB/ \*A\_PwAvg Pos i

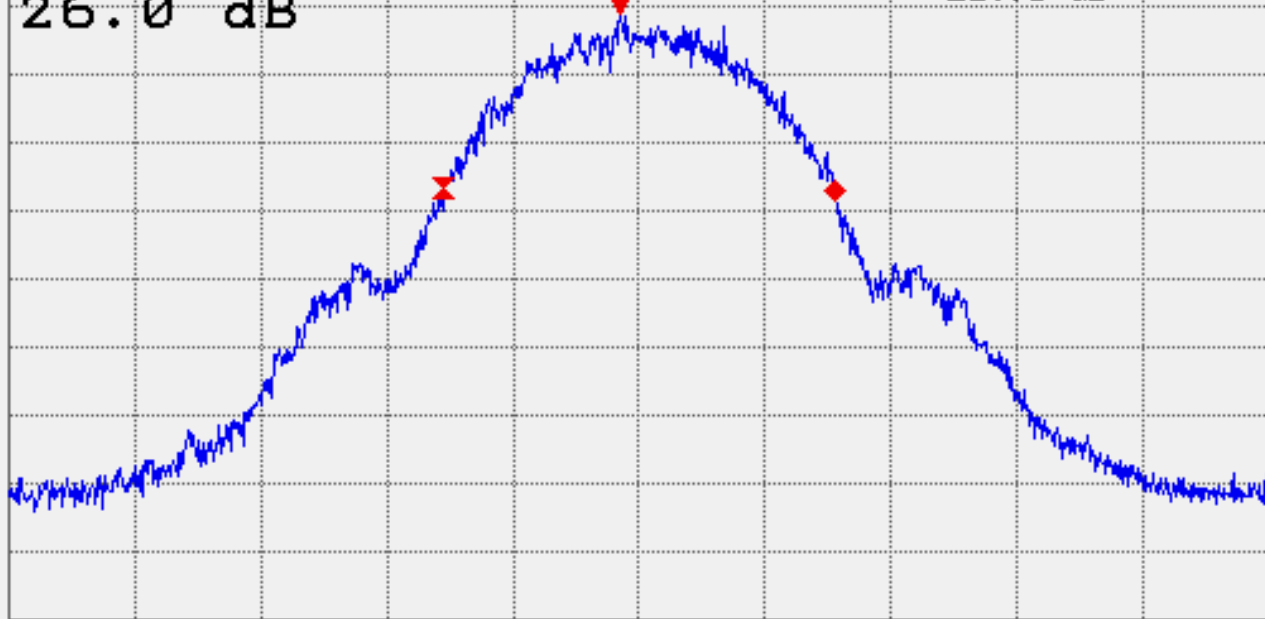
MKRA 311 kHz

-0.43 dB

LOF

X dB DOWN  
26.0 dB

REF. MKR 836.585 MHz  
21.73 dB



CENTER 836.600 MHz

SPAN 1.000 MHz

\*RBW 3 kHz

\*VBW 10 kHz

\*SWP 5.0 s

ATT 30 dB

OBW (GSM850: MS Link)

|       | Frequency   | OBW (99.00%) | Judge |
|-------|-------------|--------------|-------|
| Low : | 836.474 MHz | 250.0 kHz    | PASS  |
| High: | 836.724 MHz |              |       |

# ■ Occupied Bandwidth -26dBc BW (KHz) (GSM850 251 CH)

EZ1000(CH:251)

REF 33.0 dBm

10 dB/

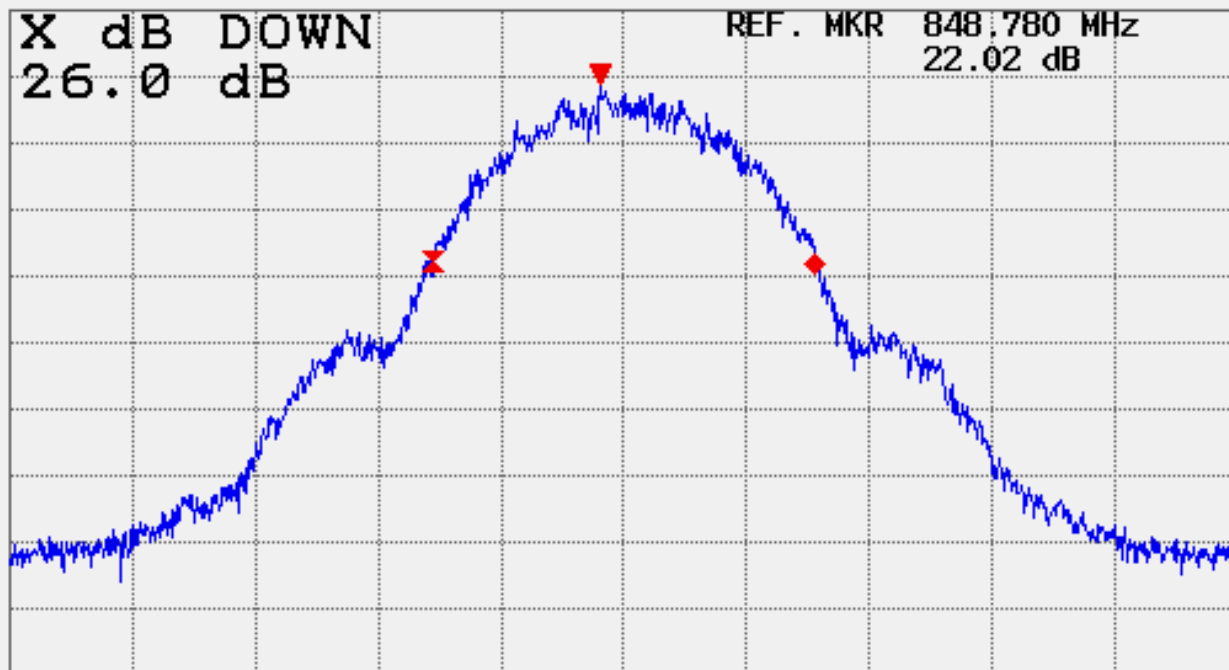
\*A\_PwAvg Posi

MKRA 311 kHz

-0.50 dB

LOF

X dB DOWN  
26.0 dB

REF. MKR 848.780 MHz  
22.02 dB


CENTER 848.800 MHz

SPAN 1.000 MHz

\*RBW 3 kHz

\*VBW 10 kHz

\*SMP 5.0 s

ATT 30 dB

OBW (GSM850: MS Link)

|       | Frequency   | OBW (99.00%) | Judge |
|-------|-------------|--------------|-------|
| Low : | 848.675 MHz | 248.0 kHz    | PASS  |
| High: | 848.923 MHz |              |       |

# ■ Occupied Bandwidth -26dBc BW (KHz) (GSM1900 512 CH)

EZ1000(CH:512)

REF 30.0 dBm

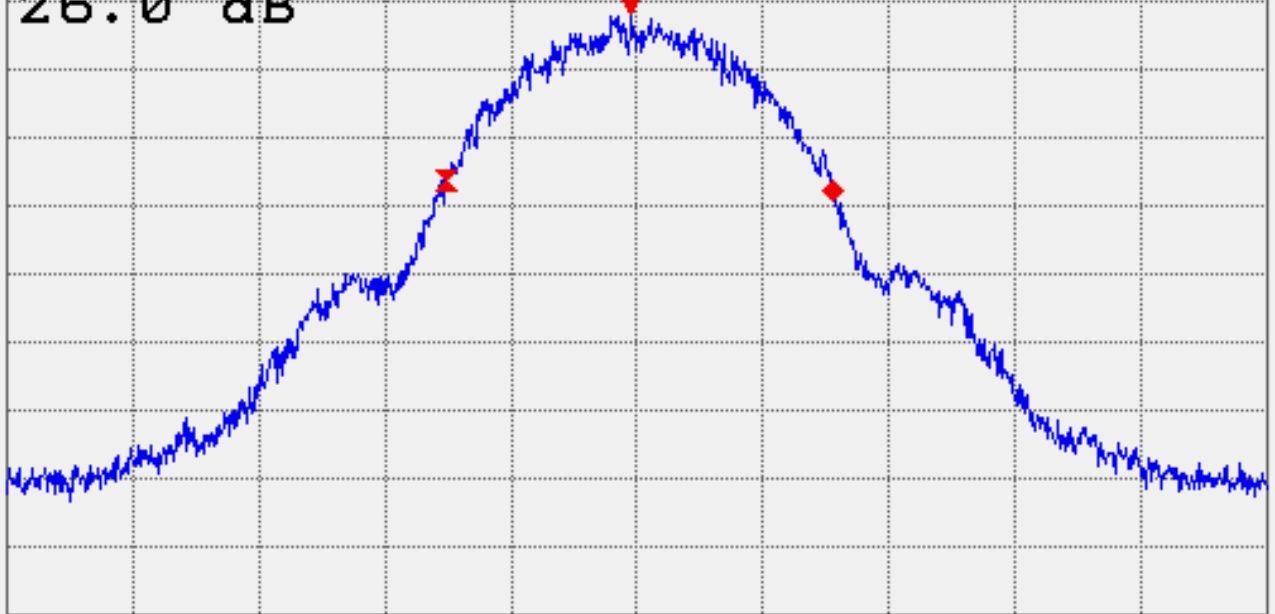
10 dB/ \*A\_PwAvg Pos i

MKRA 307 kHz

-1.48 dB

LOF

X dB DOWN  
26.0 dB

REF. MKR 1.850195 GHz  
18.18 dB


CENTER 1.850200 GHz

SPAN 1.000 MHz

\*RBW 3 kHz

\*VBW 10 kHz

\*SWP 5.0 s

ATT 30 dB

OBW (PCS1900: MS Link)

|       | Frequency    | OBW (99.00%) | Judge |
|-------|--------------|--------------|-------|
| Low : | 1.850074 GHz | 249.0 kHz    | PASS  |
| High: | 1.850323 GHz |              |       |

# ■ Occupied Bandwidth -26dBc BW (KHz) (GSM1900 661 CH)

EZ1000(CH:661)

REF 30.0 dBm

10 dB/ \*A\_PwAvg Pos i

MKRA 308 kHz

0.05 dB

LOF

X dB DOWN

26.0 dB

REF. MKR 1.879981 GHz

17.67 dB

5

5

CENTER 1.880000 GHz

SPAN 1.000 MHz

\*RBW 3 kHz

\*VBW 10 kHz

\*SWP 5.0 s

ATT 30 dB

OBW (PCS1900: MS Link)

|       | Frequency    | OBW (99.00%) | Judge |
|-------|--------------|--------------|-------|
| Low : | 1.879874 GHz | 249.0 kHz    | PASS  |
| High: | 1.880123 GHz |              |       |

# ■ Occupied Bandwidth -26dBc BW (KHz) (GSM1900 810 CH)

EZ1000(CH:810)

REF 30.0 dBm

10 dB/ \*A\_PwAvg Pos i

MKRA 307 kHz

-1.14 dB

LOF

X dB DOWN

26.0 dB

REF. MKR 1.909783 GHz

17.38 dB

5

5

CENTER 1.909800 GHz

SPAN 1.000 MHz

\*RBW 3 kHz

\*VBW 10 kHz

\*SWP 5.0 s

ATT 30 dB

OBW (PCS1900: MS Link)

|       | Frequency    | OBW (99.00%) | Judge |
|-------|--------------|--------------|-------|
| Low : | 1.909673 GHz | 250.0 kHz    | PASS  |
| High: | 1.909923 GHz |              |       |

## ■ GSM Block Edge GSM850 (128 CH.)

EZ1000(CH:128)

REF 33.0 dBm

DL -13.0 dBm

MKR 824.000 MHz

10 dB/

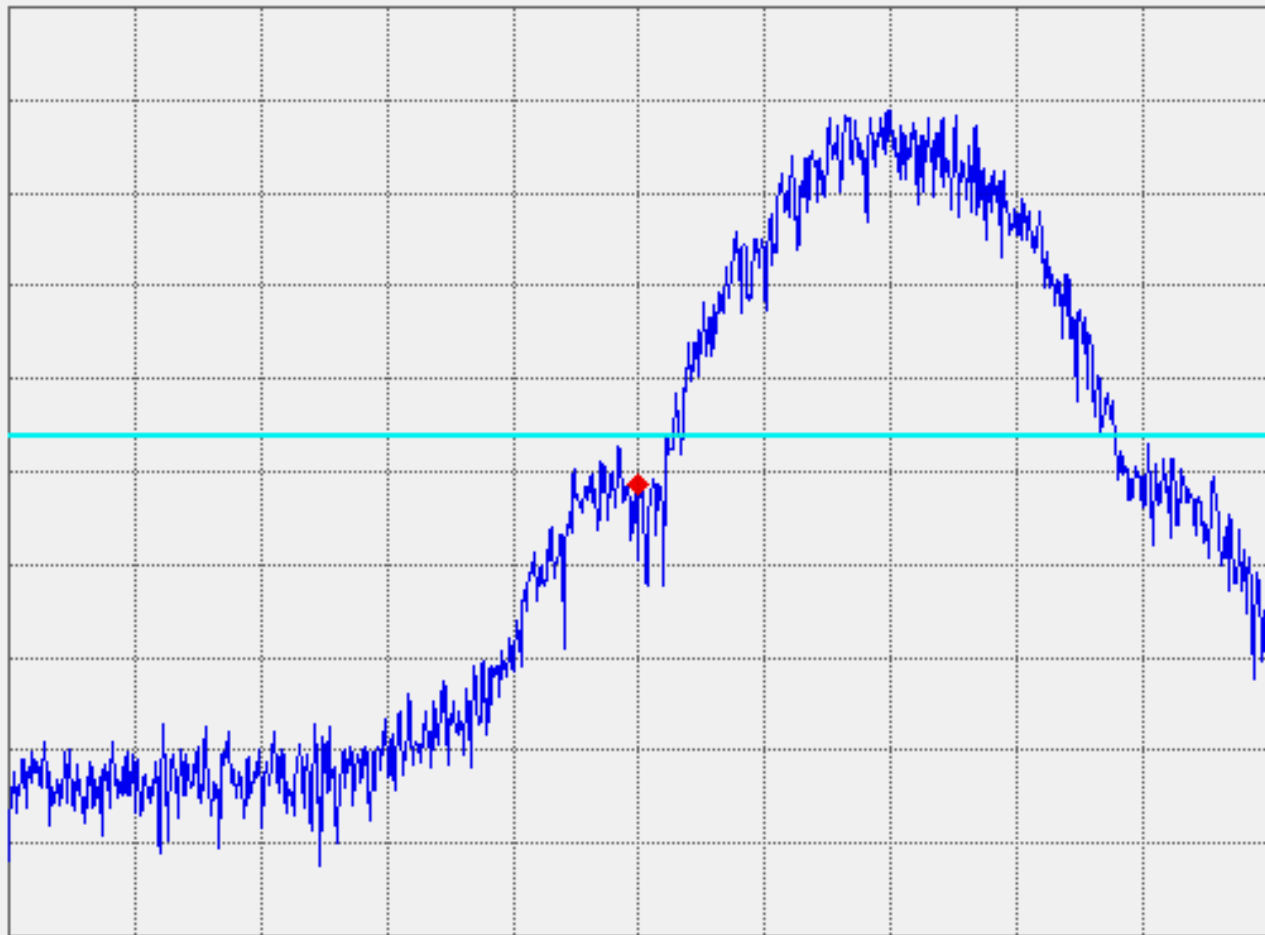
\*A\_View

Norm

B\_Blank Norm

-18.25 dBm

LOF



CENTER 824.000 MHz

SPAN 1.000 MHz

\*RBW 3 kHz

\*VBW 3 kHz

SWP 230 ms

ATT 30 dB

## ■ GSM Block Edge GSM850 (251 CH.)

EZ1000(CH:251)

REF 33.0 dBm

DL -13.0 dBm

MKR 849.000 MHz

10 dB/

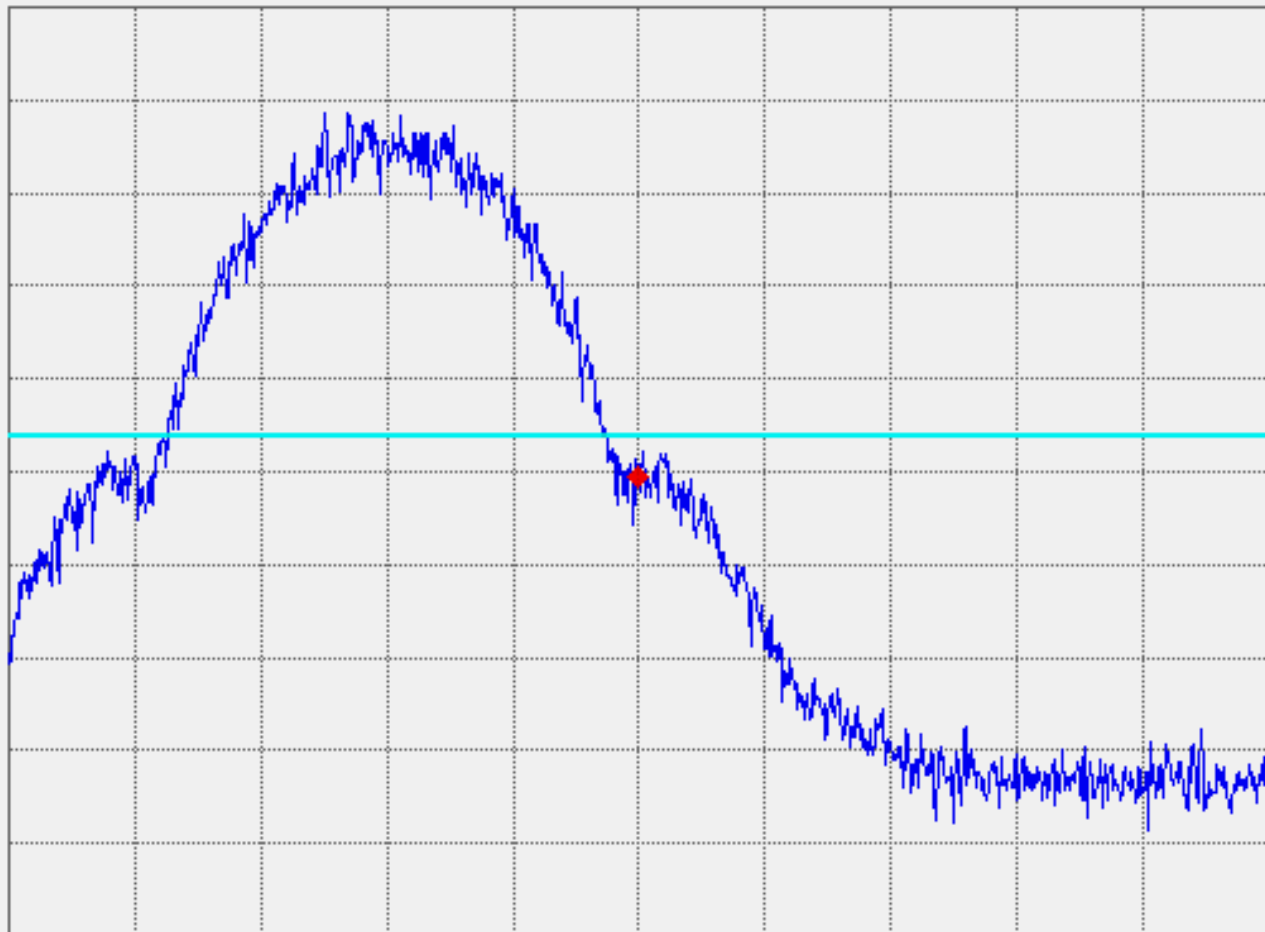
\*A\_View

Norm

B\_Blank Norm

-17.52 dBm

LOF



CENTER 849.000 MHz

SPAN 1.000 MHz

\*RBW 3 kHz

\*VBW 3 kHz

SWP 230 ms

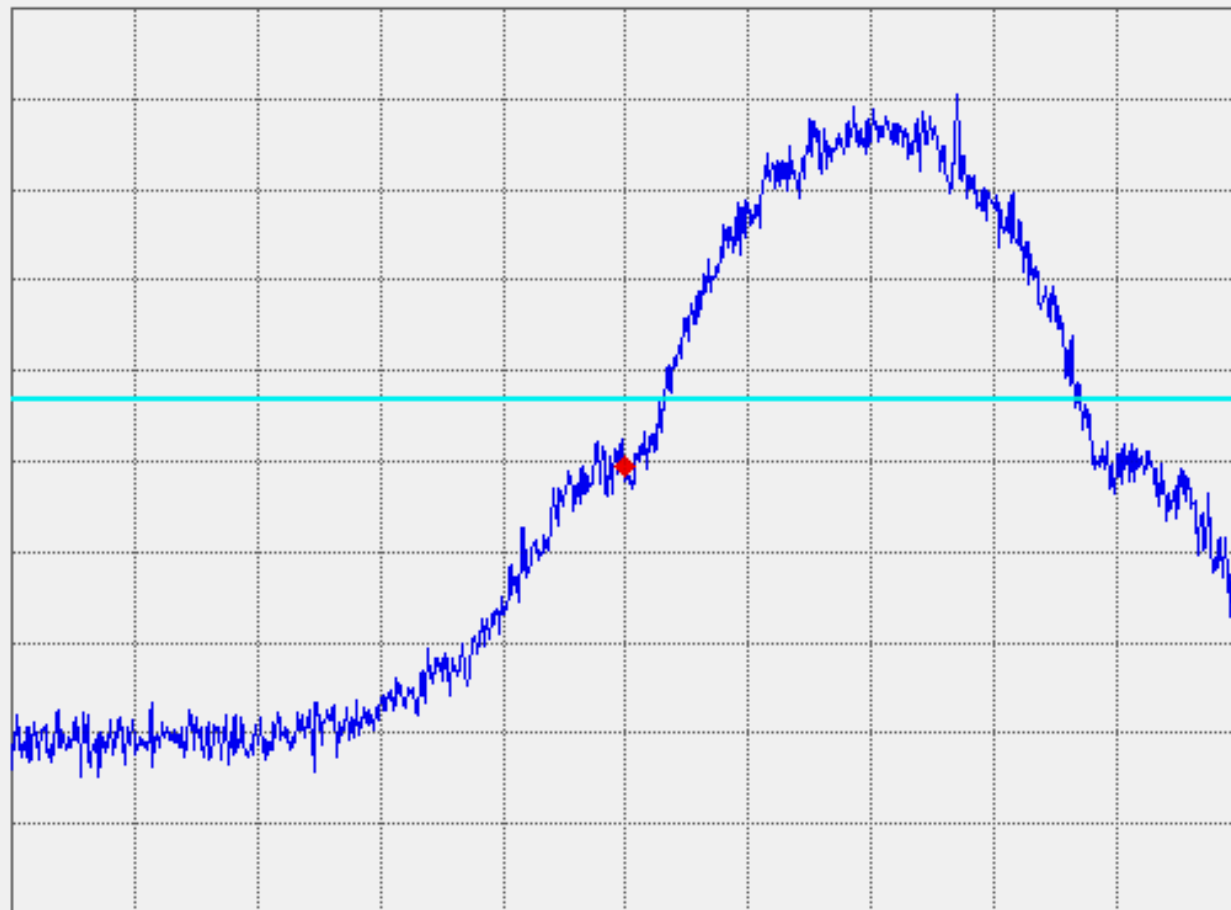
ATT 30 dB

## ■ GSM Block Edge GSM1900 (512 CH.)

EZ1000(CH:512)

REF 30.0 dBm DL -13.0 dBm MKR 1.850000 GHz  
10 dB/ \*A\_Max Posi B\_Blank Norm -20.66 dBm

LOF

20  
20

CENTER 1.850000 GHz

SPAN 1.000 MHz

\*RBW 3 kHz

\*VBW 3 kHz

SWP 230 ms

ATT 30 dB

## ■ GSM Block Edge GSM1900 (810 CH.)

EZ1000(CH:810)

REF 30.0 dBm

DL -13.0 dBm

MKR 1.910000 GHz

10 dB/ \*A\_Max

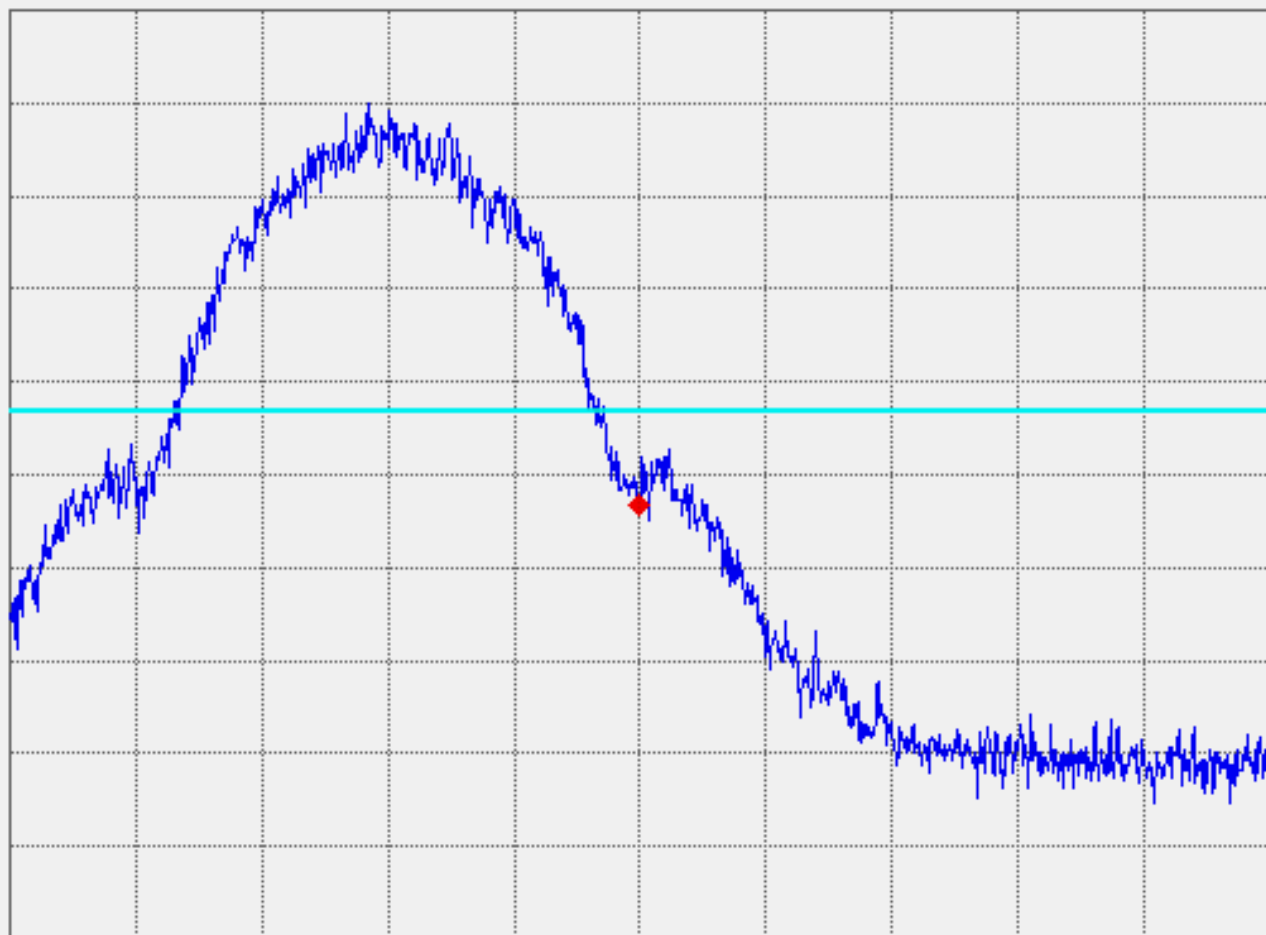
Posi B\_Blank Norm

-23.20 dBm

LOF

20

20



CENTER 1.910000 GHz

SPAN 1.000 MHz

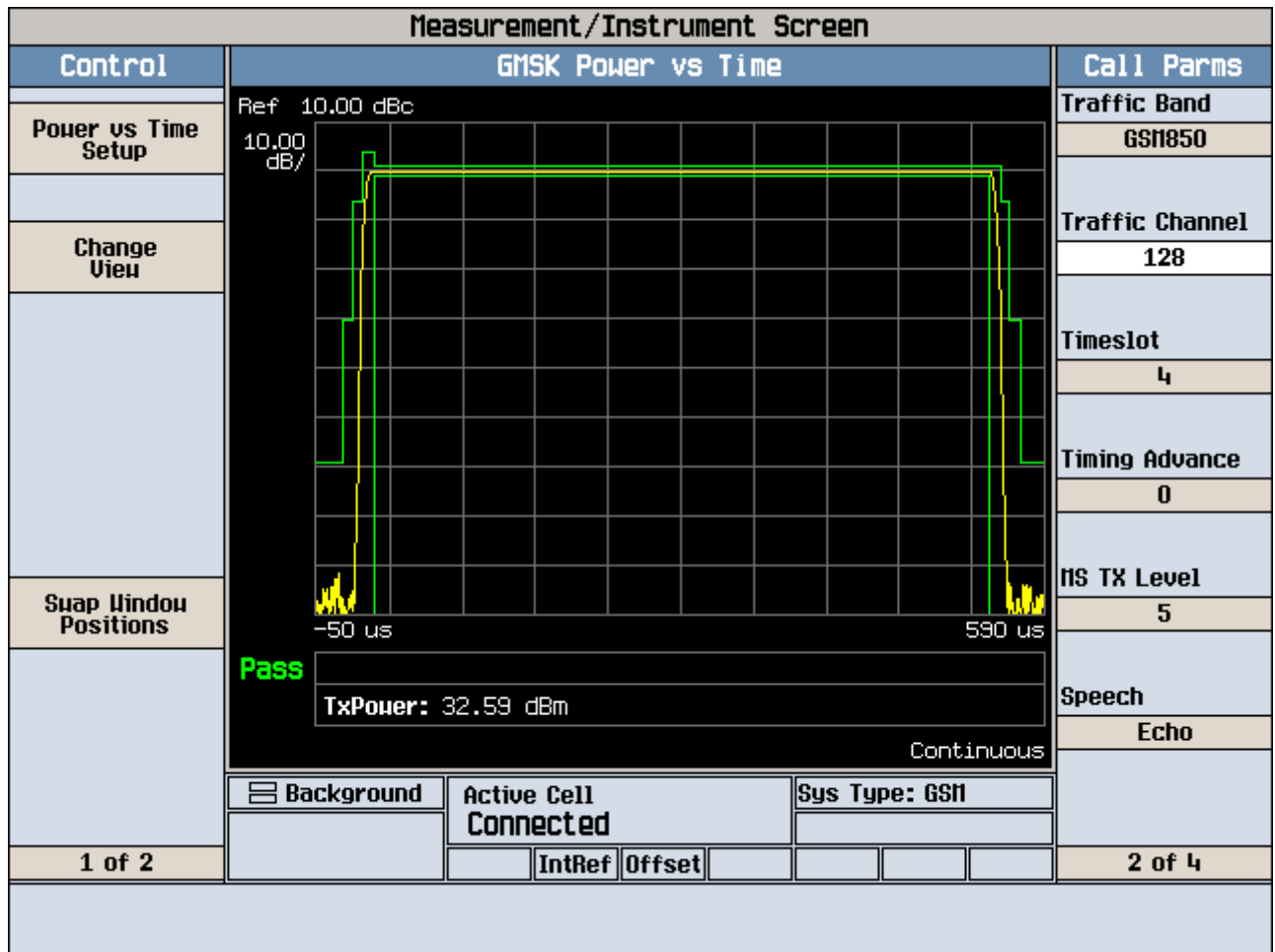
\*RBW 3 kHz

\*VBW 3 kHz

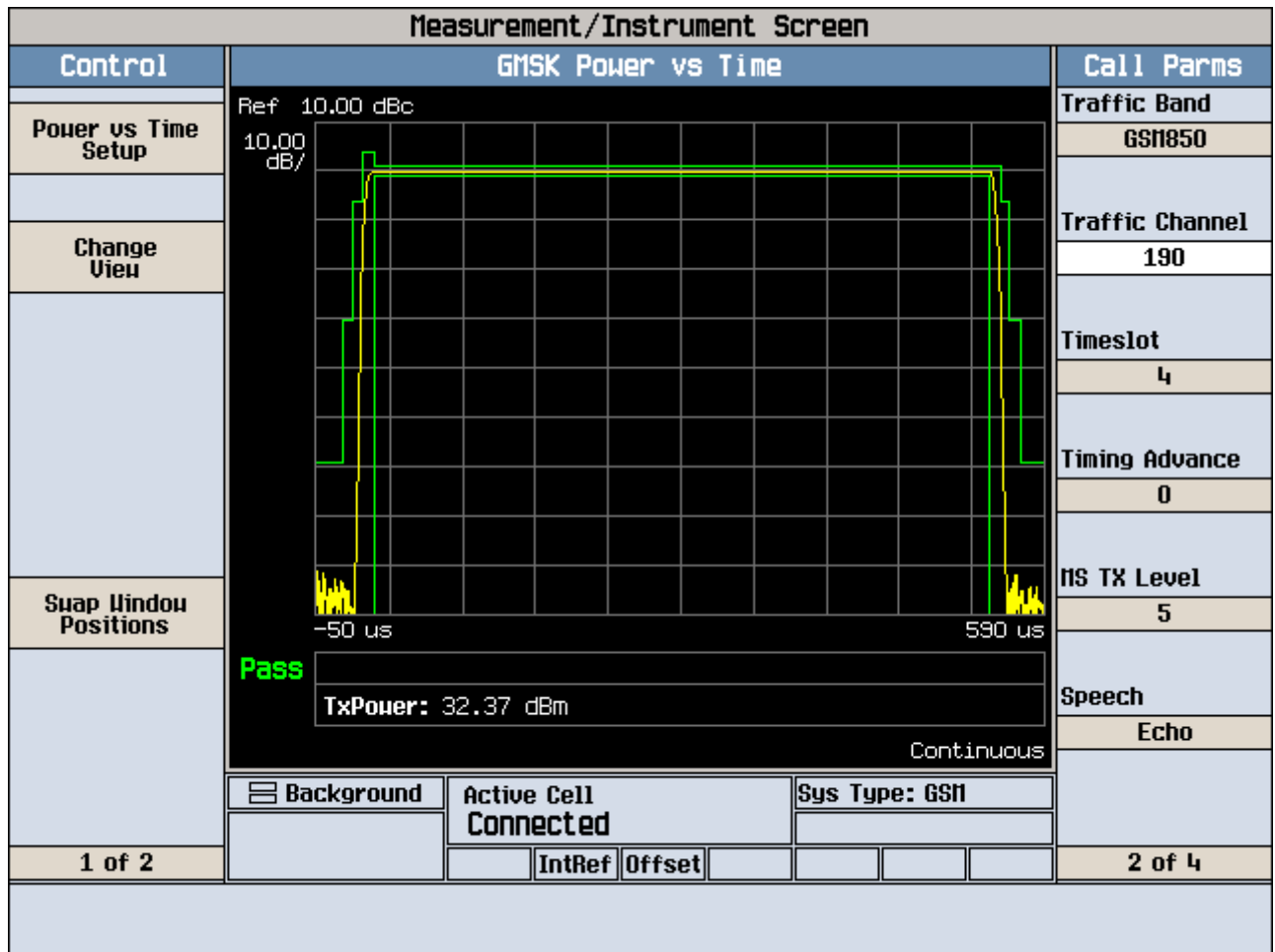
SWP 230 ms

ATT 30 dB

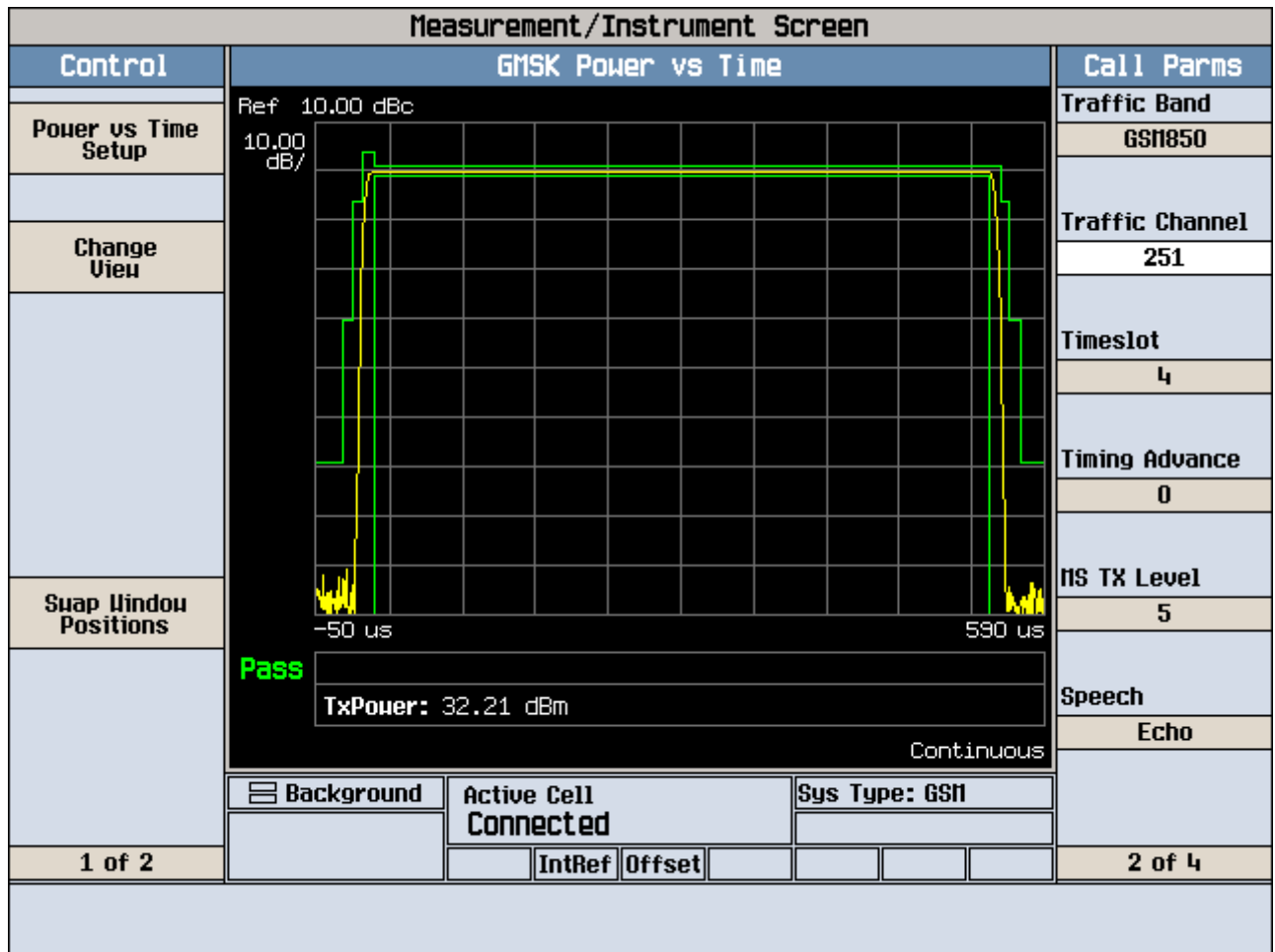
■ Power output conducted (GSM850 128 CH)



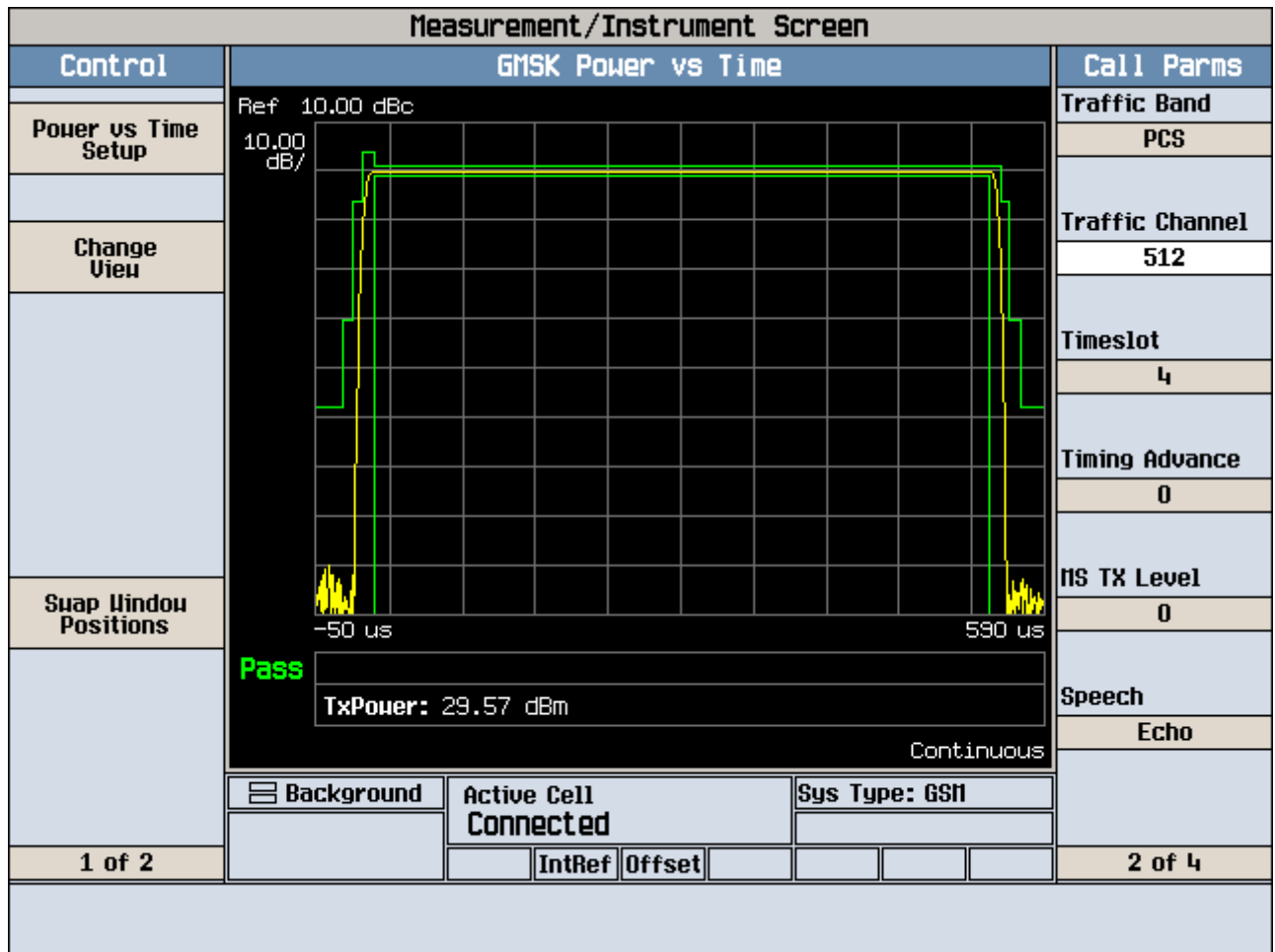
# ■ Power output conducted (GSM850 190 CH)



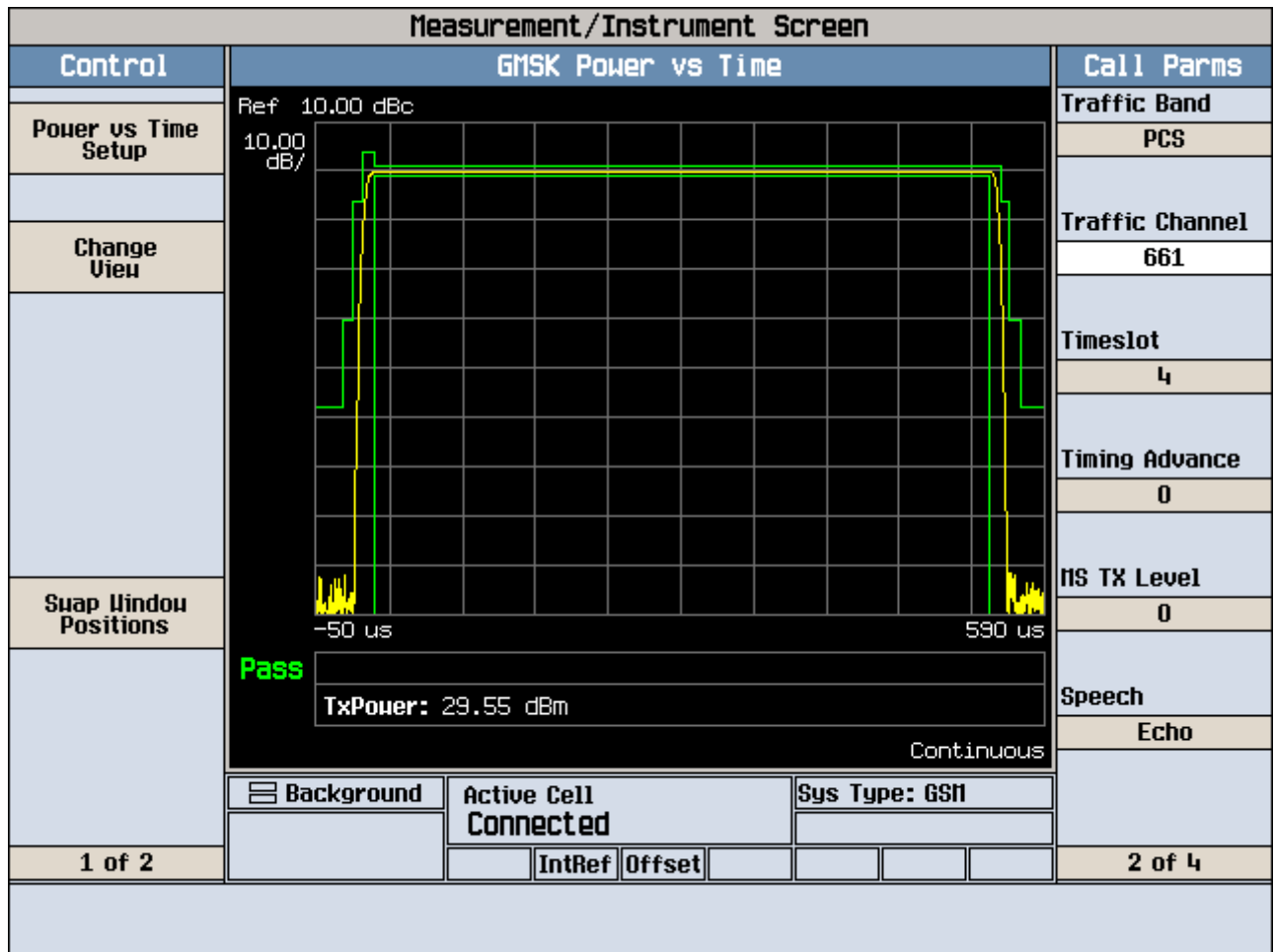
# ■ Power output conducted (GSM850 251 CH)



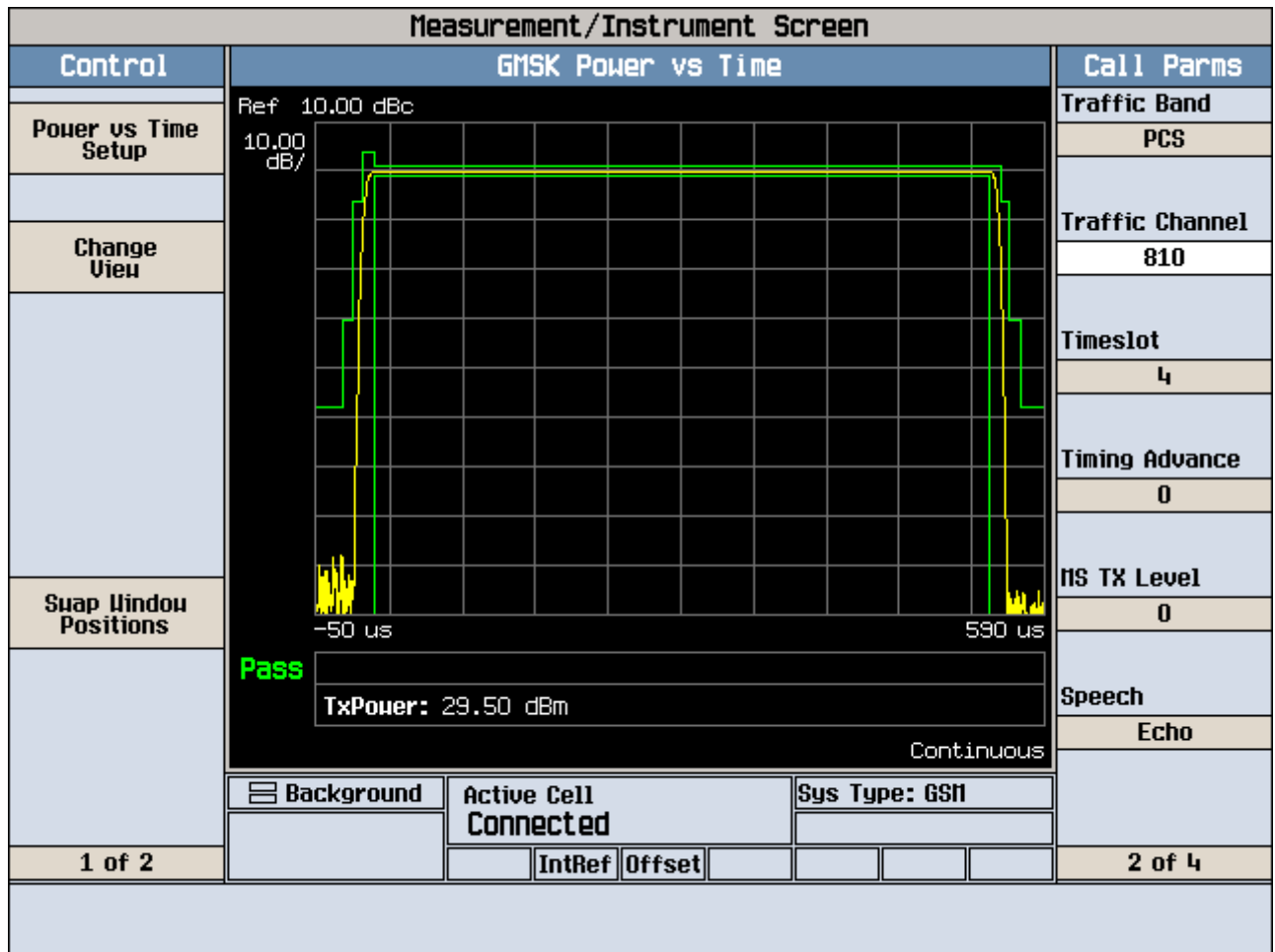
# ■ Power output conducted (GSM1900 512 CH)



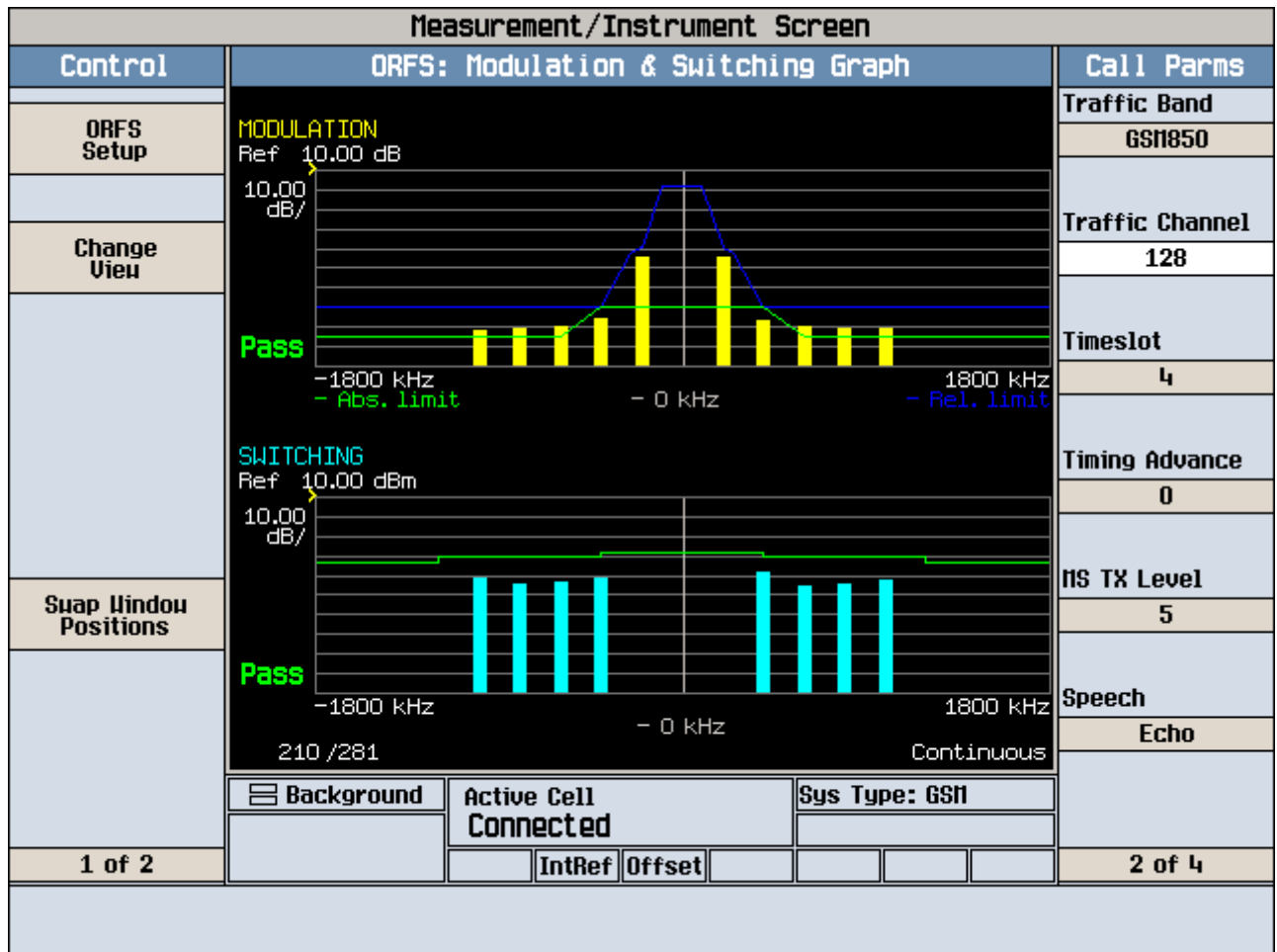
# ■ Power output conducted (GSM1900 661 CH)



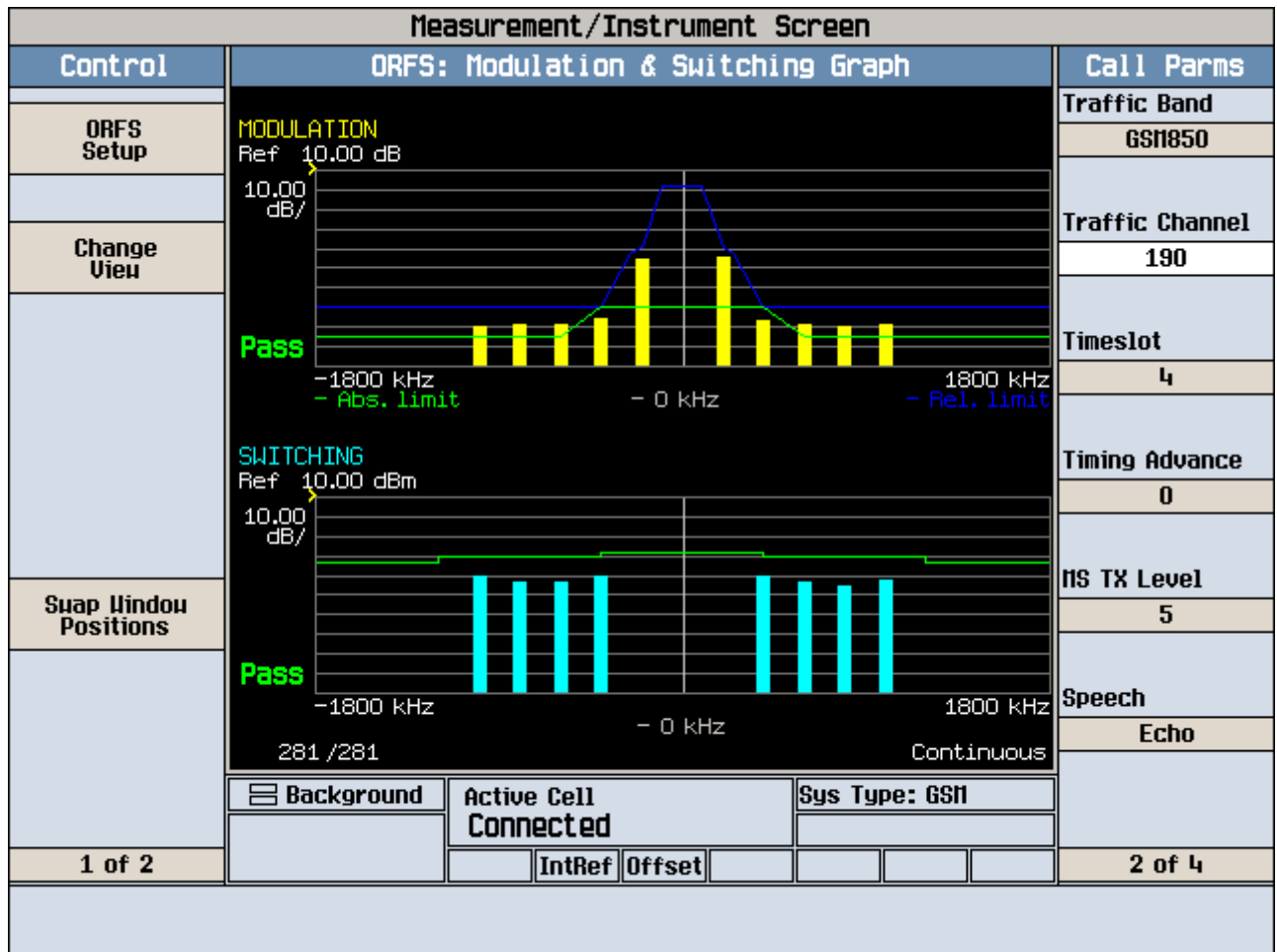
# ■ Power output conducted (GSM1900 810 CH)



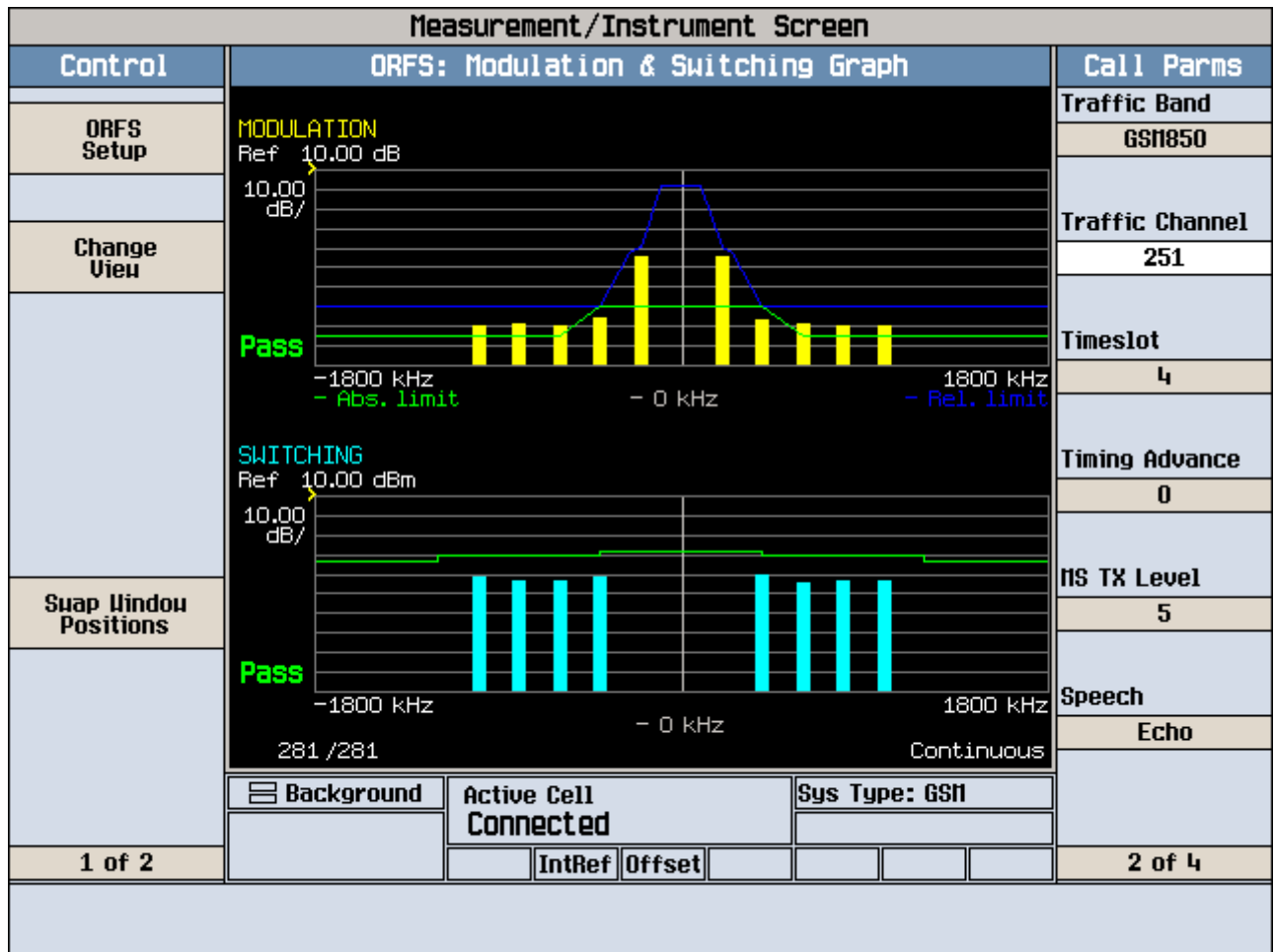
## ■ Modulation & Switching Graph (GSM850 128 CH)



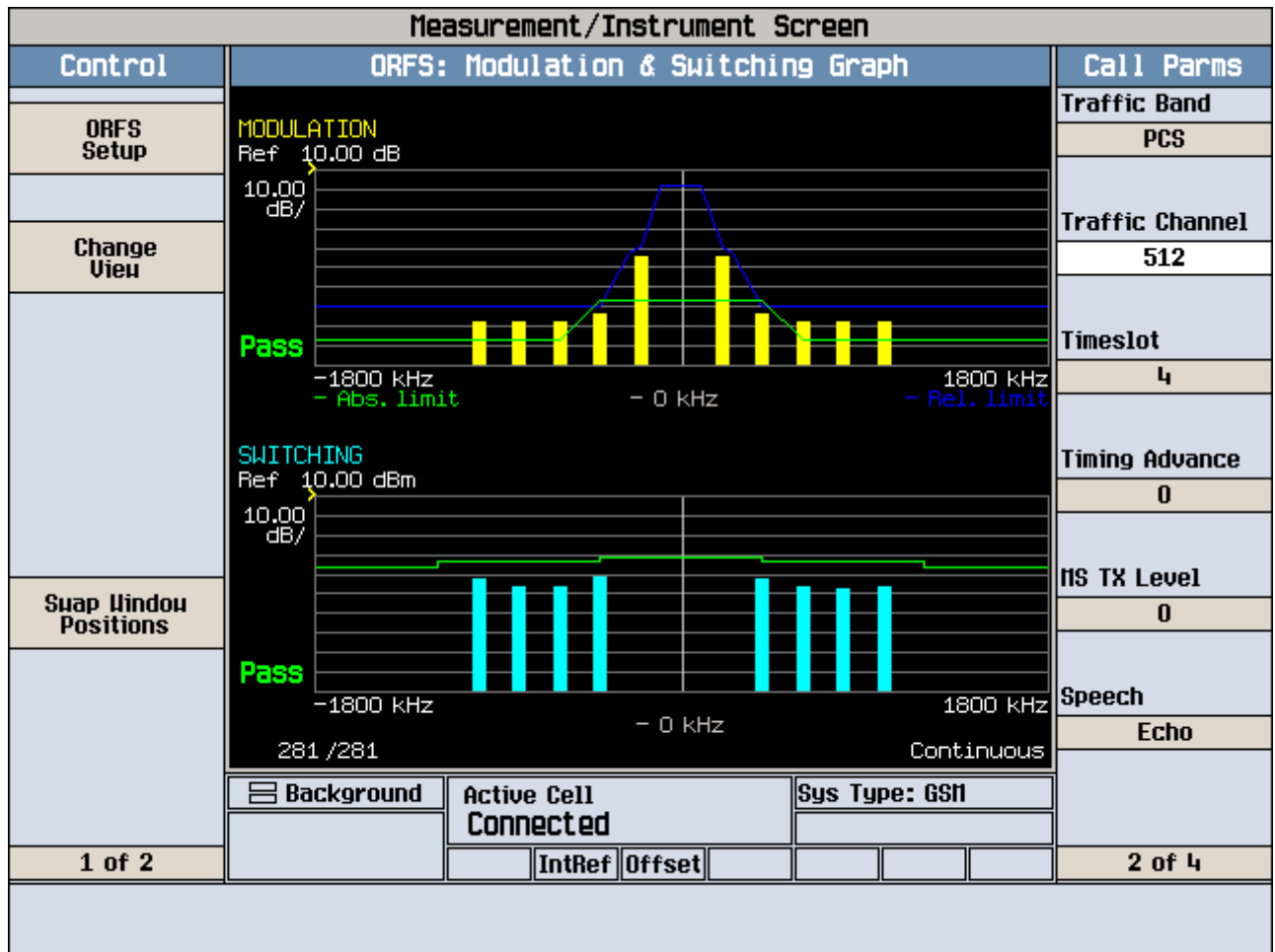
## ■ Modulation & Switching Graph (GSM850 190 CH)



## ■ Modulation & Switching Graph (GSM850 251 CH)



## ■ Modulation & Switching Graph (GSM1900 512 CH)



| Measurement/Instrument Screen |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                       |  |               |  |                 |  |
|-------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------------------|--|---------------|--|-----------------|--|
| Control                       |  | ORFS: Modulation & Switching Graph                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |                       |  |               |  | Call Params     |  |
| ORFS Setup                    |  | <p>The screen displays two graphs. The top graph, titled 'MODULATION', shows a signal spectrum with a central peak and side lobes. The y-axis is labeled '10.00 dB/' and the x-axis is labeled 'kHz' with markers at -1800, 0, and 1800. A green line represents the 'Abs. limit' and a blue line represents the 'Rel. limit'. The bottom graph, titled 'SWITCHING', shows a signal spectrum with a central peak and side lobes. The y-axis is labeled '10.00 dB/' and the x-axis is labeled 'kHz' with markers at -1800, 0, and 1800. A green line represents the 'Abs. limit' and a blue line represents the 'Rel. limit'. Both graphs show a 'Pass' status.</p> |  |                       |  |               |  | Traffic Band    |  |
| Change View                   |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                       |  |               |  | PCS             |  |
|                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                       |  |               |  | Traffic Channel |  |
|                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                       |  |               |  | 661             |  |
|                               |  | Timeslot                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                       |  |               |  |                 |  |
|                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                       |  |               |  | 4               |  |
|                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                       |  |               |  | Timing Advance  |  |
|                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                       |  |               |  | 0               |  |
| Swap Window Positions         |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                       |  |               |  | HS TX Level     |  |
|                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                       |  |               |  | 0               |  |
|                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                       |  |               |  | Speech          |  |
|                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                       |  |               |  | Echo            |  |
| 1 of 2                        |  | Background                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | Active Cell Connected |  | Sys Type: GSM |  | 2 of 4          |  |
|                               |  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  | IntRef Offset         |  |               |  |                 |  |

## ■ Modulation & Switching Graph (GSM1900 810 CH)

