



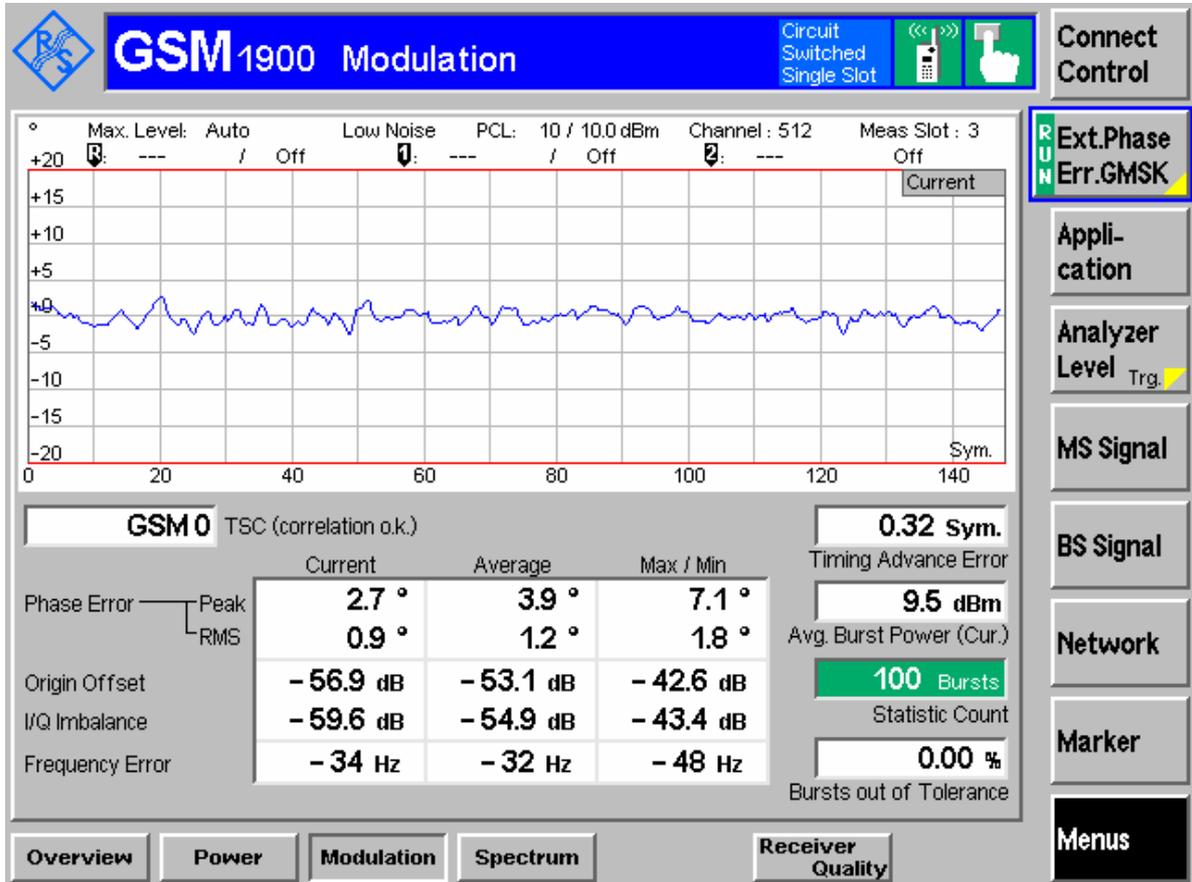
# Appendix A

## Modulation Characteristics

According to FCC Part 2.1047 & Part24 Subpart E



## TM1: GSM Channel 512





## Channel 661

**GSM1900 Modulation**

Circuit Switched Single Slot

<< >>

Connect Control

Max. Level: Auto
Low Noise
PCL: 10 / 10.0 dBm
Channel : 661
Meas Slot : 3

--- / Off
--- / Off
---
---
Off

Current

**GSM 0** TSC (correlation o.k.)
**0.09 Sym.**

	Current	Average	Max / Min
Phase Error — Peak	<b>3.0 °</b>	<b>3.9 °</b>	<b>7.8 °</b>
RMS	<b>1.1 °</b>	<b>1.2 °</b>	<b>1.6 °</b>
Origin Offset	<b>- 53.5 dB</b>	<b>- 53.6 dB</b>	<b>- 44.6 dB</b>
I/Q Imbalance	<b>- 63.6 dB</b>	<b>- 54.4 dB</b>	<b>- 43.7 dB</b>
Frequency Error	<b>- 38 Hz</b>	<b>- 36 Hz</b>	<b>- 47 Hz</b>

**9.2 dBm**  
 Avg. Burst Power (Cur.)

100 Bursts  
 Statistic Count

**0.00 %**  
 Bursts out of Tolerance

Overview
Power
Modulation
Spectrum

Receiver Quality

Menus

Ext.Phase Err.GMSK

Application

Analyzer Level Trg.

MS Signal

BS Signal

Network

Marker



# Channel 810

**GSM1900 Modulation**

Circuit Switched Single Slot

<< >>

Connect Control

Max. Level: Auto
Low Noise: --- / Off
PCL: 10 / 10.0 dBm
Channel: 810
Meas Slot: 3

+20
---
---
---
---

+15
---
---
---
---

+10
---
---
---
---

+5
---
---
---
---

0
---
---
---
---

-5
---
---
---
---

-10
---
---
---
---

-15
---
---
---
---

-20
---
---
---
---

0
20
40
60
80
100
120
140

Current

Sym.

**GSM 0** TSC (correlation o.k.)

	Current	Average	Max / Min
Phase Error — Peak	3.7 °	4.1 °	9.1 °
RMS	1.1 °	1.3 °	1.7 °
Origin Offset	- 46.7 dB	- 53.8 dB	- 41.7 dB
I/Q Imbalance	- 59.3 dB	- 53.8 dB	- 42.1 dB
Frequency Error	- 36 Hz	- 34 Hz	- 47 Hz

**0.19 Sym.**  
 Timing Advance Error

**8.8 dBm**  
 Avg. Burst Power (Cur.)

100 Bursts  
 Statistic Count

**0.00 %**  
 Bursts out of Tolerance

**Ext.Phase Err.GMSK**

Application

Analyzer Level Trg.

MS Signal

BS Signal

Network

Marker

Menus

Overview

Power

Modulation

Spectrum

Receiver Quality