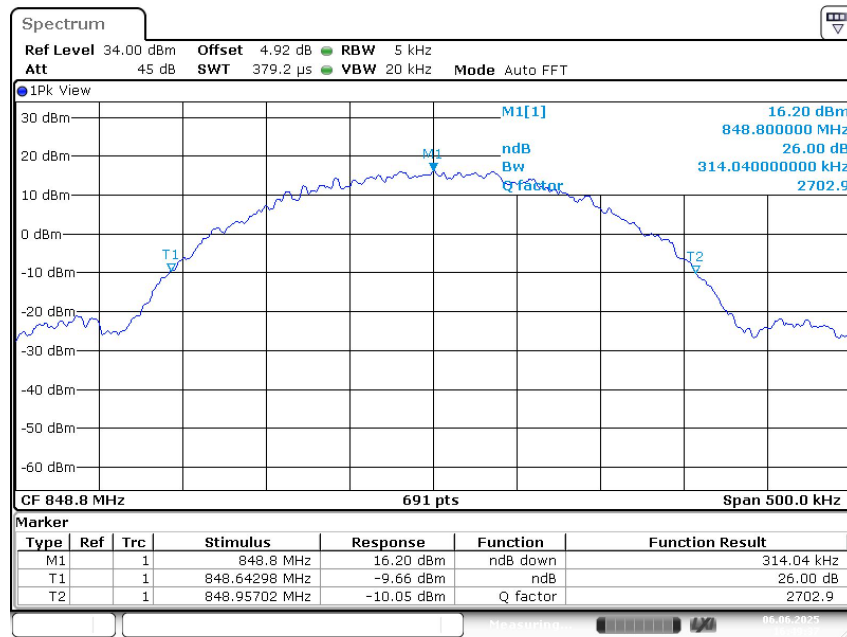


## Channel 251-Emission Bandwidth (-26dBc BW)



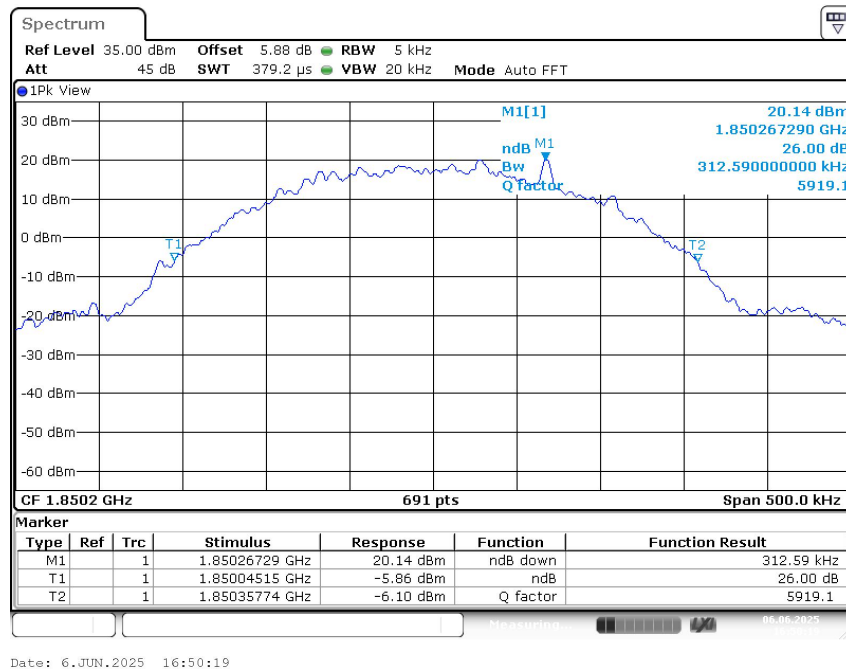
Date: 6.JUN.2025 16:49:37

**PCS1900 (-26dBc)  
GSM**

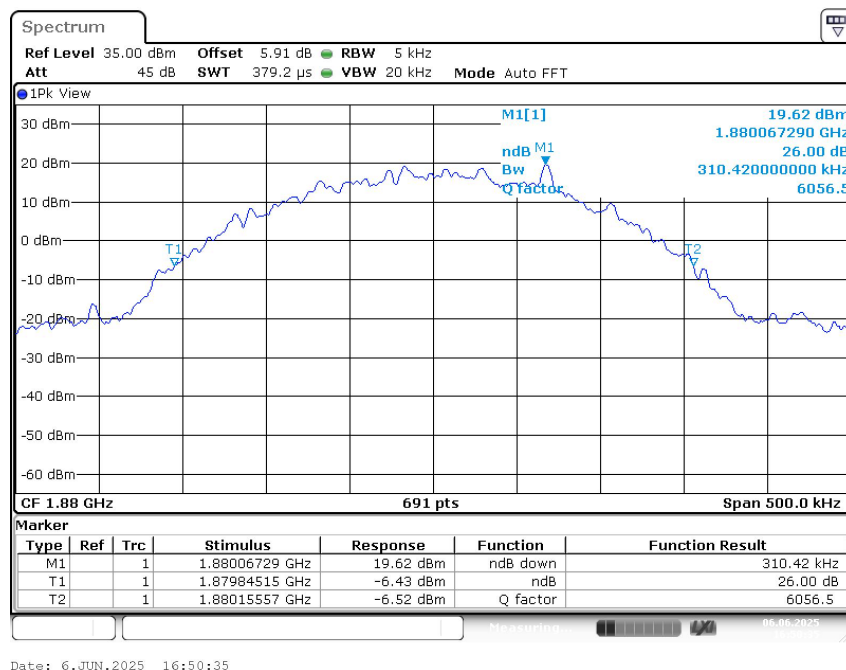
Frequency (MHz)	Emission Bandwidth (-26dBc)(kHz)
1850.2	312.590
1880	310.420
1909.8	308.970

**PCS1900**

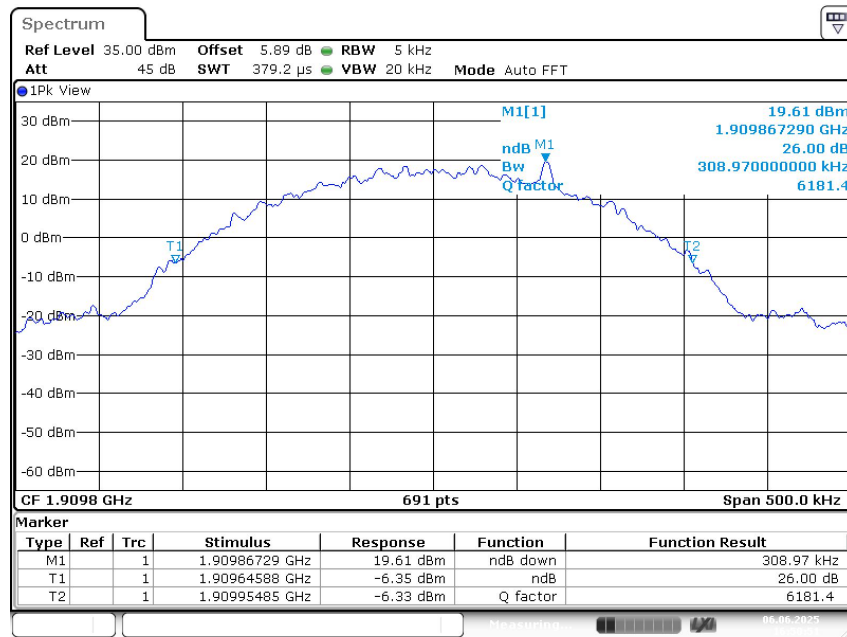
**Channel 512-Emission Bandwidth (-26dBc BW)**



**Channel 661-Emission Bandwidth (-26dBc BW)**



## Channel 810-Emission Bandwidth (-26dBc BW)



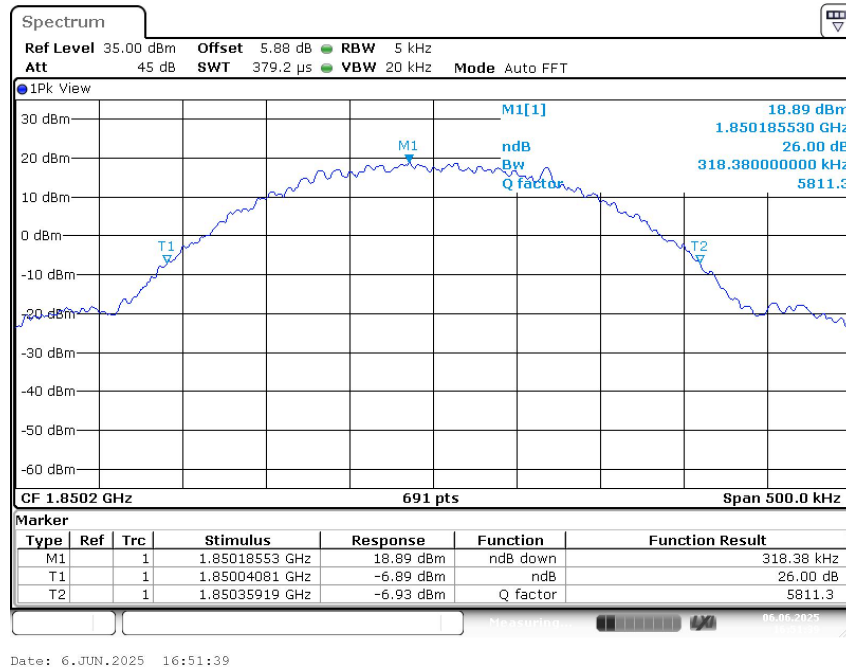
Date: 6.JUN.2025 16:50:50

# PCS1900 (-26dBc) GPRS

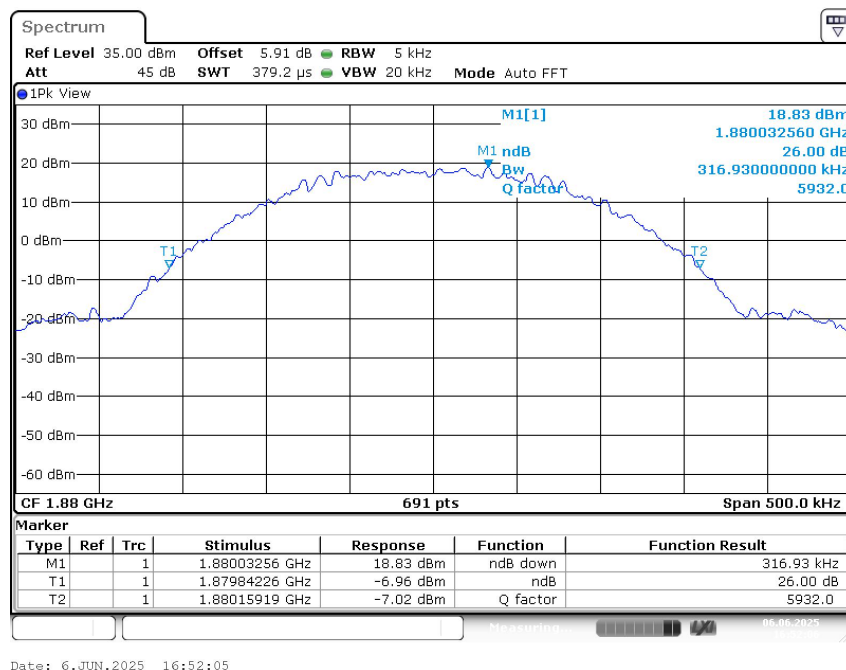
Frequency (MHz)	Emission Bandwidth (-26dBc)(kHz)
1850.2	318.380
1880	316.930
1909.8	319.100

## PCS1900

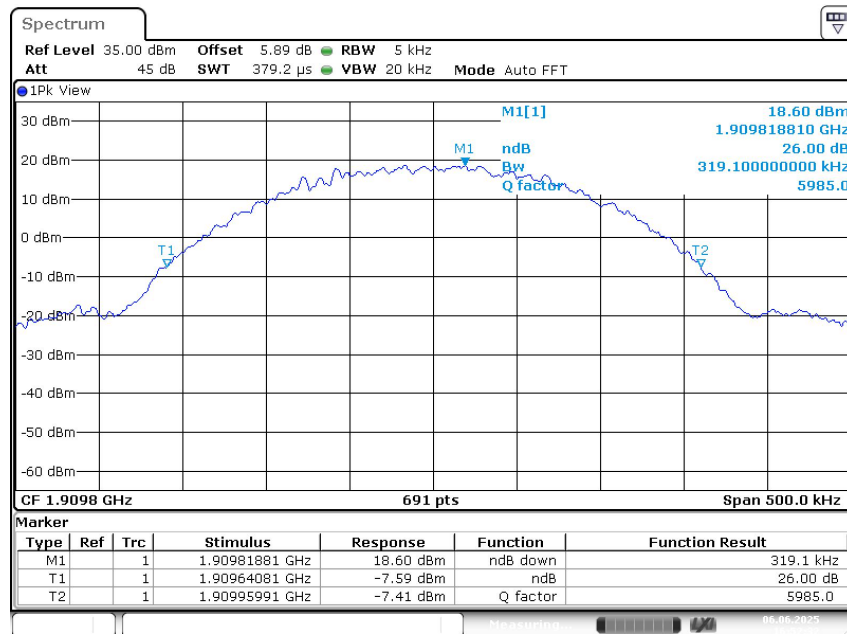
### Channel 512-Emission Bandwidth (-26dBc BW)



### Channel 661-Emission Bandwidth (-26dBc BW)



## Channel 810-Emission Bandwidth (-26dBc BW)



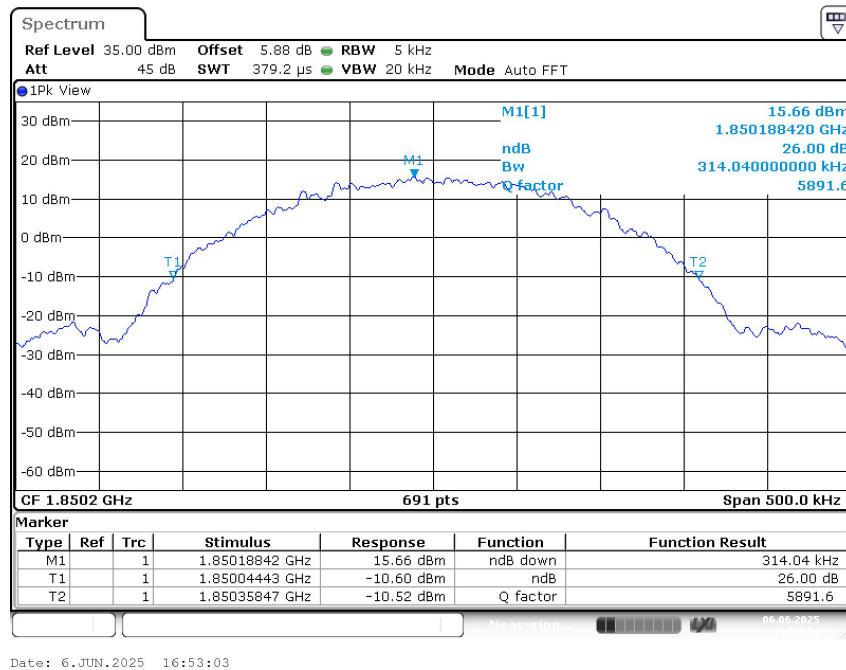
Date: 6.JUN.2025 16:52:32

## PCS1900 (-26dBc) EGPRS

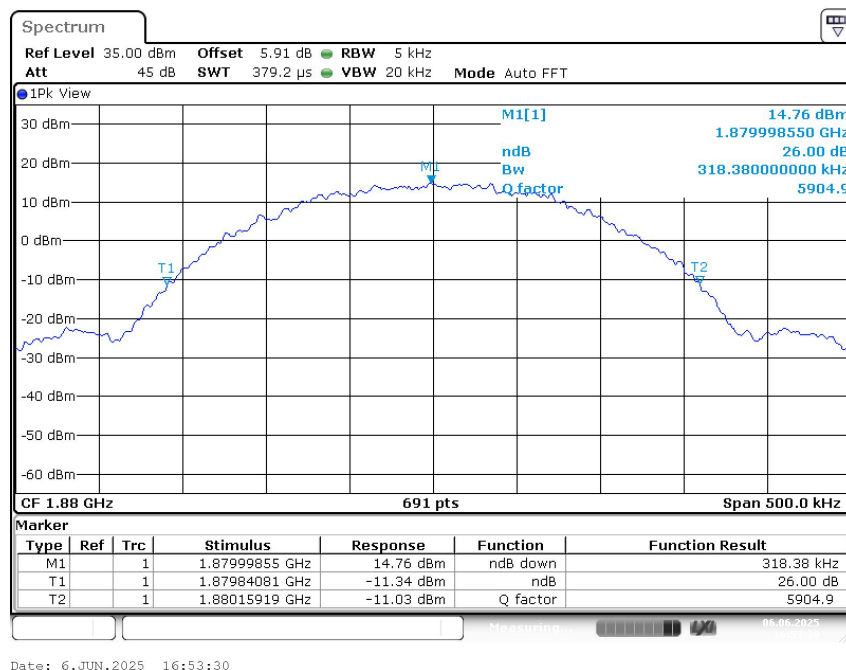
Frequency (MHz)	Emission Bandwidth (-26dBc)(kHz)
1850.2	314.040
1880	318.380
1909.8	314.040

## PCS1900

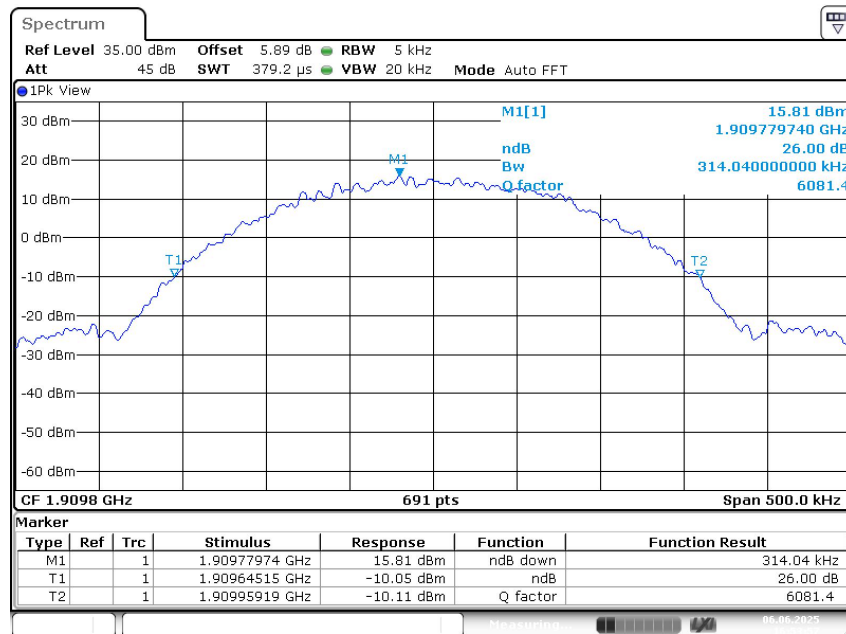
### Channel 512-Emission Bandwidth (-26dBc BW)



### Channel 661-Emission Bandwidth (-26dBc BW)



## Channel 810-Emission Bandwidth (-26dBc BW)



Date: 6.JUN.2025 16:53:57

## **A.6 Band Edge Compliance**

### **A.6.1 Measurement limit**

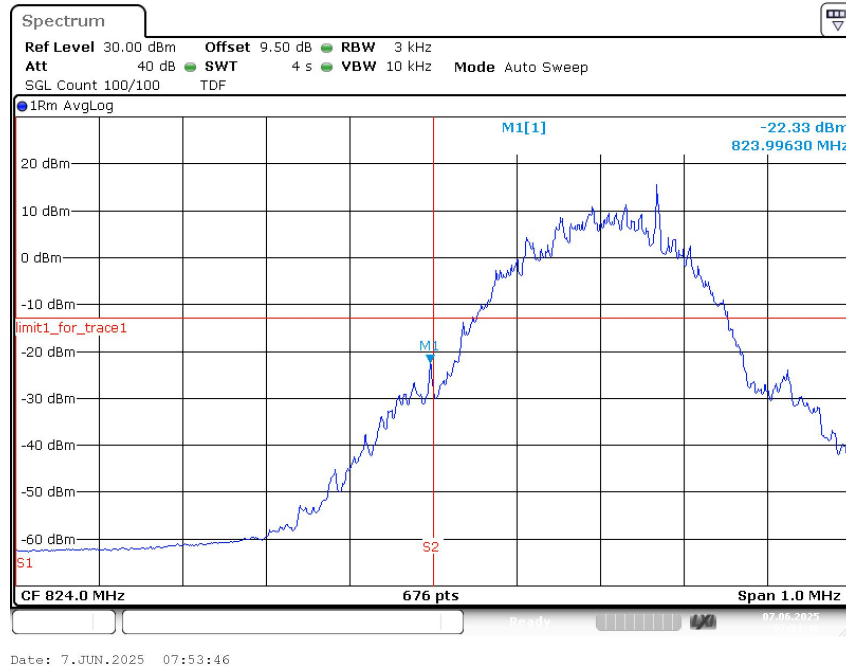
Part 22.917 and Part 24.238 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

According to KDB 971168, a relaxation of the reference bandwidth is often provided for measurements within a specified frequency range at the edge of the authorized frequency block/band. This is often implemented by permitting the use of a narrower RBW (typically limited to a minimum RBW of 1% of the OBW) for measuring the out-of-band emissions without a requirement to integrate the result over the full reference bandwidth.

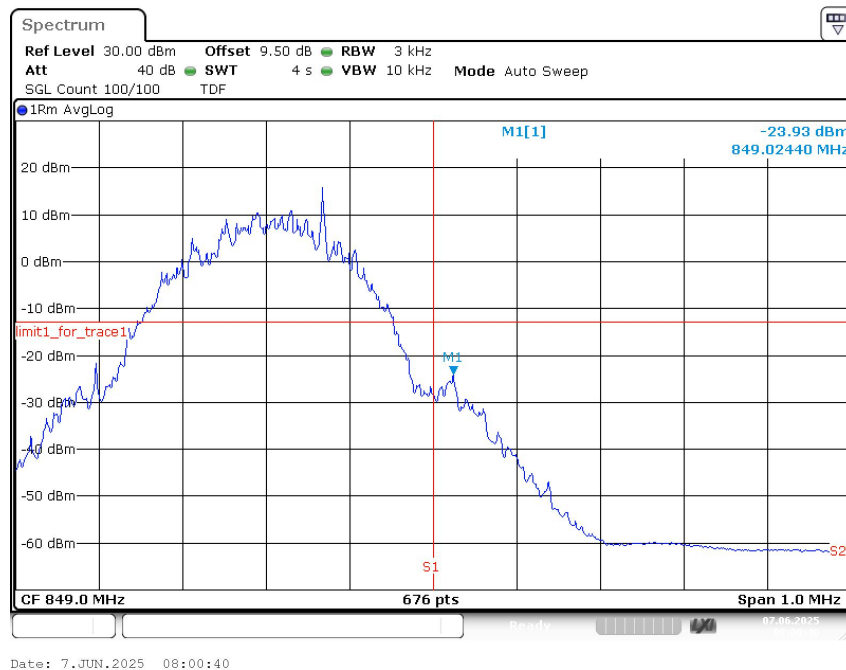
The spectrum analyzer readings are corrected by  $[10 \log (1/\text{duty cycle})]$  for the non-continuous transmitting scenario.



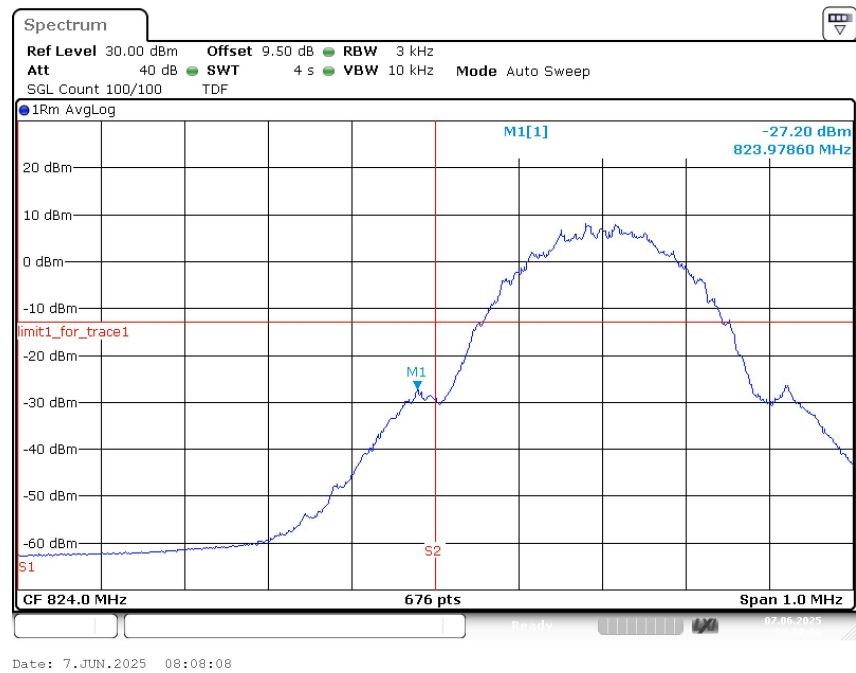
**A.6.2 Measurement result**  
**GSM850**  
**GSM**  
**Channel 128**



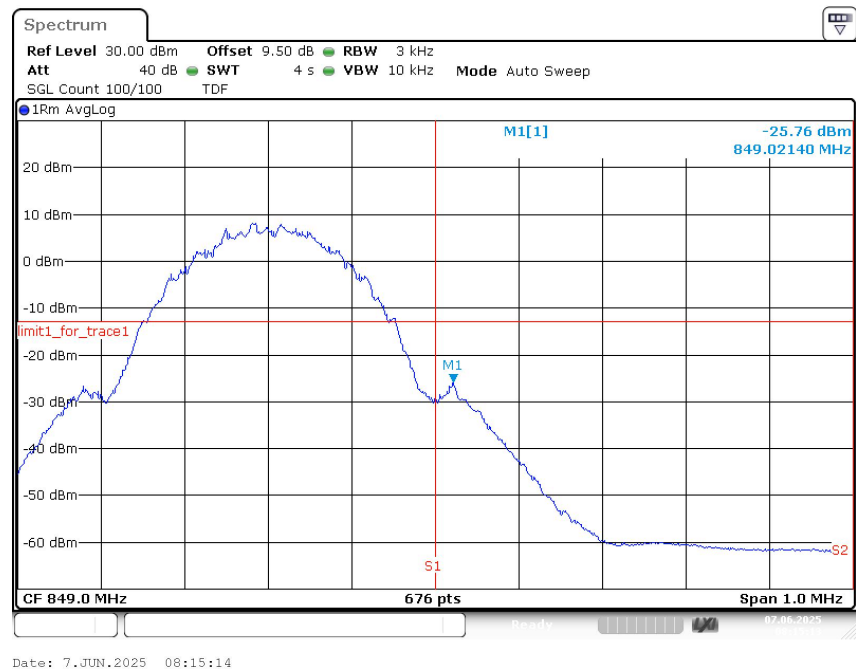
**Channel 251**



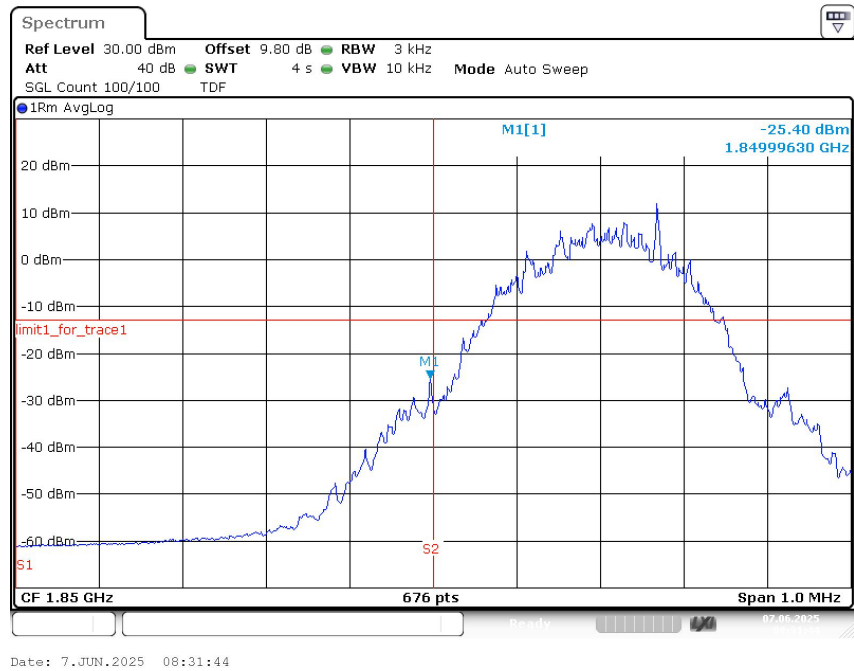
**GSM850**  
**GPRS**  
**Channel 128**



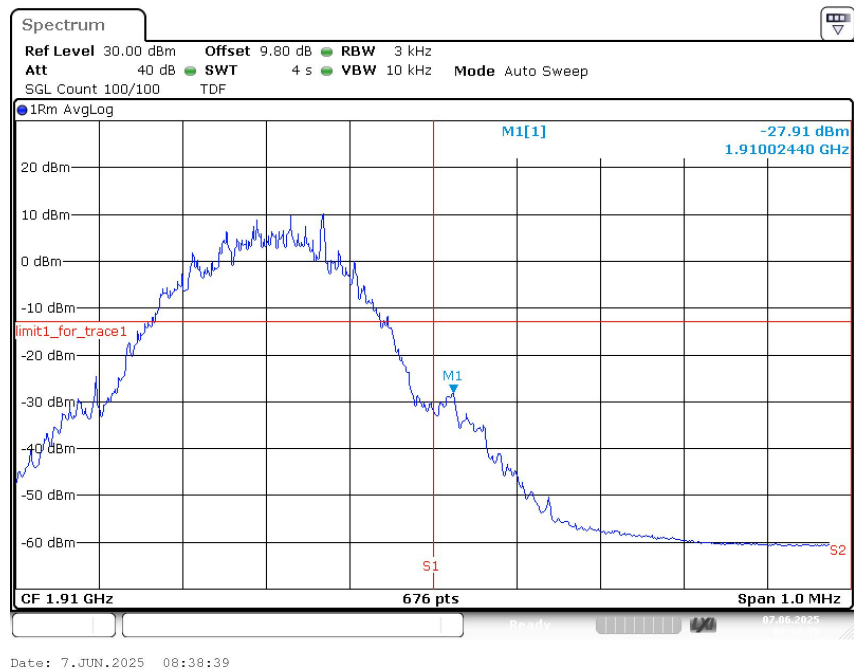
**Channel 251**



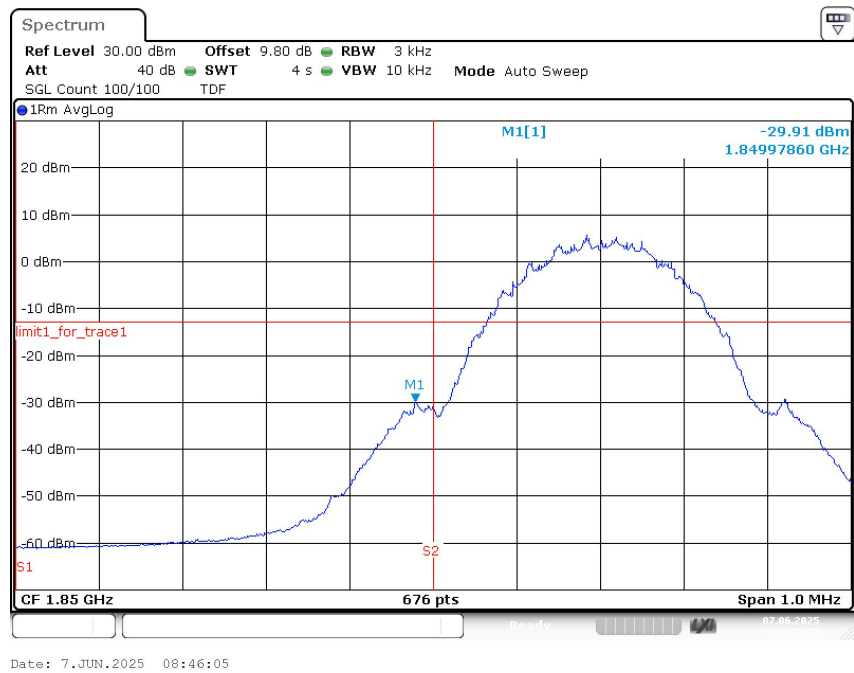
**PCS1900**  
**GSM**  
**Channel 512**



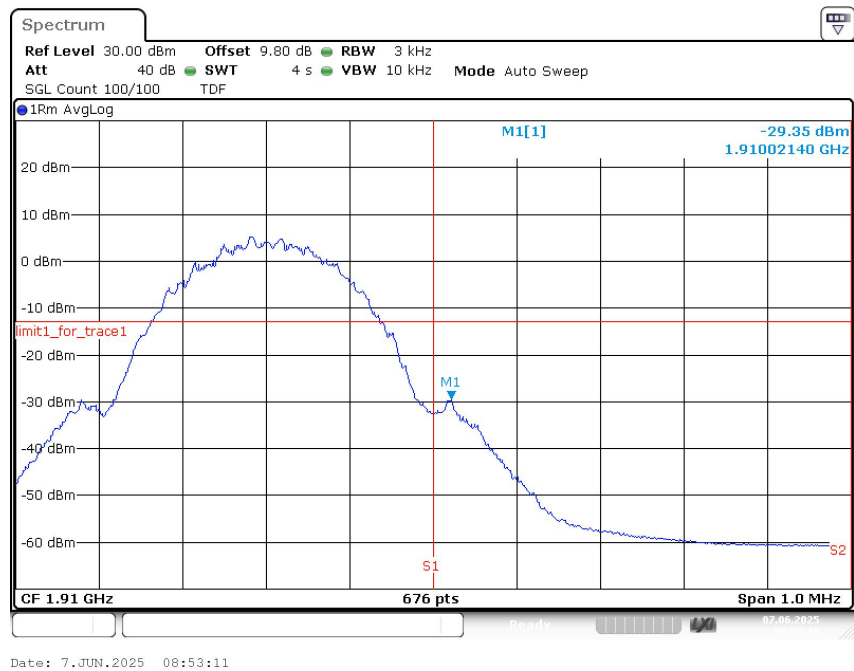
**Channel 810**



**PCS1900**  
**GPRS**  
**Channel 512**



**Channel 810**



## **A.7 Conducted Spurious Emission**

### **A.7.1 Measurement Method**

The following steps outline the procedure used to measure the conducted emissions from the EUT.

1. In measuring unwanted emissions, the spectrum shall be investigated from 30 MHz or the lowest radio frequency signal generated in the equipment, whichever is lower, without going below 9 kHz, up to at least the frequency given below:
  - (a) If the equipment operates below 10 GHz: to the tenth harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
  - (b) If the equipment operates at or above 10 GHz: to the fifth harmonic of the highest fundamental frequency or to 100 GHz, whichever is lower.
2. Determine EUT transmit frequencies: below outlines the band edge frequencies pertinent to conducted emissions testing.
3. The number of sweep points of spectrum analyzer is greater than  $2 \times \text{span} / \text{RBW}$ .

### **A. 7.2 Measurement Limit**

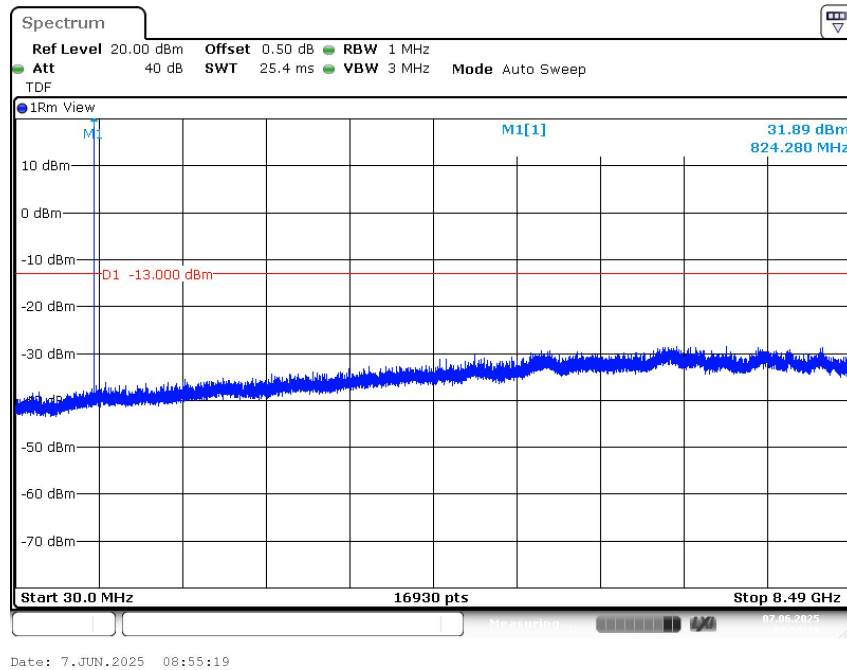
Part 22.917 and Part 24.238 specify that the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

### A.7.3 Measurement result

#### GSM850

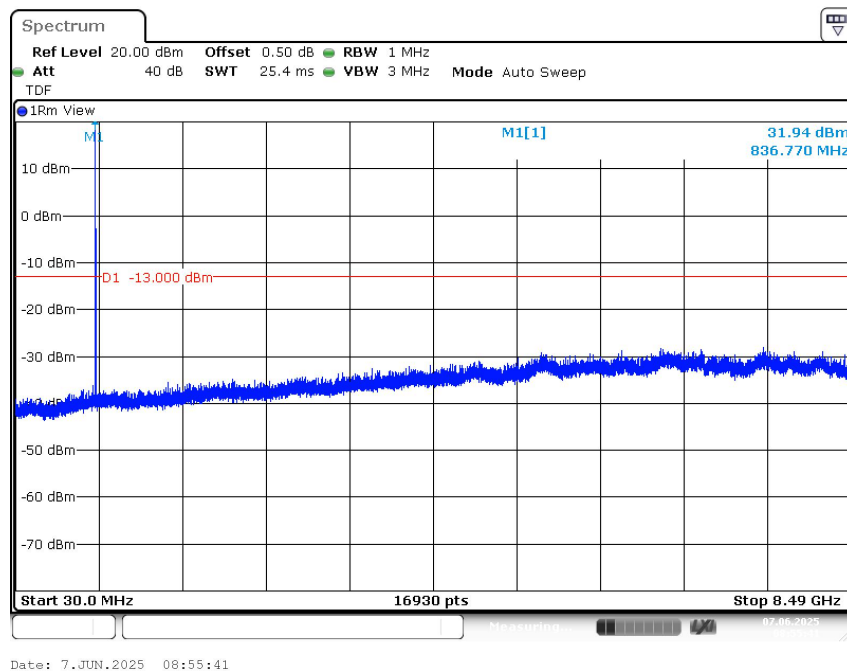
#### Channel 128

NOTE: peak above the limit line is the carrier frequency.



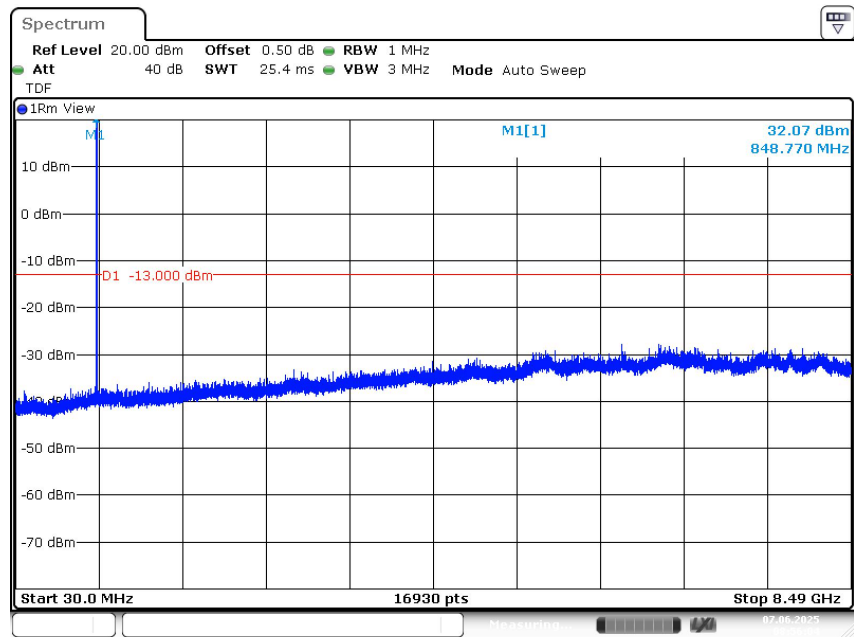
#### Channel 190

NOTE: peak above the limit line is the carrier frequency.



## Channel 251

**NOTE: peak above the limit line is the carrier frequency.**

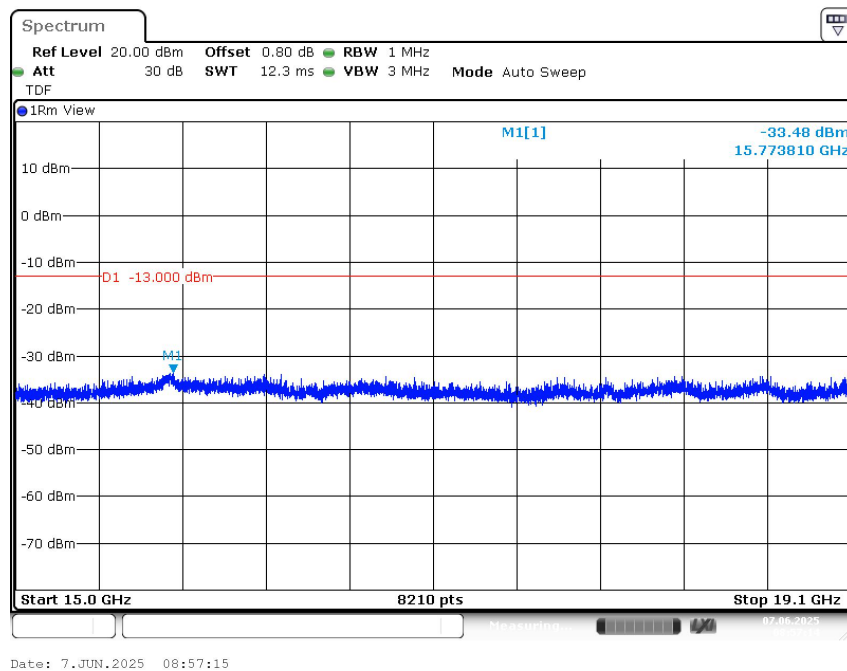
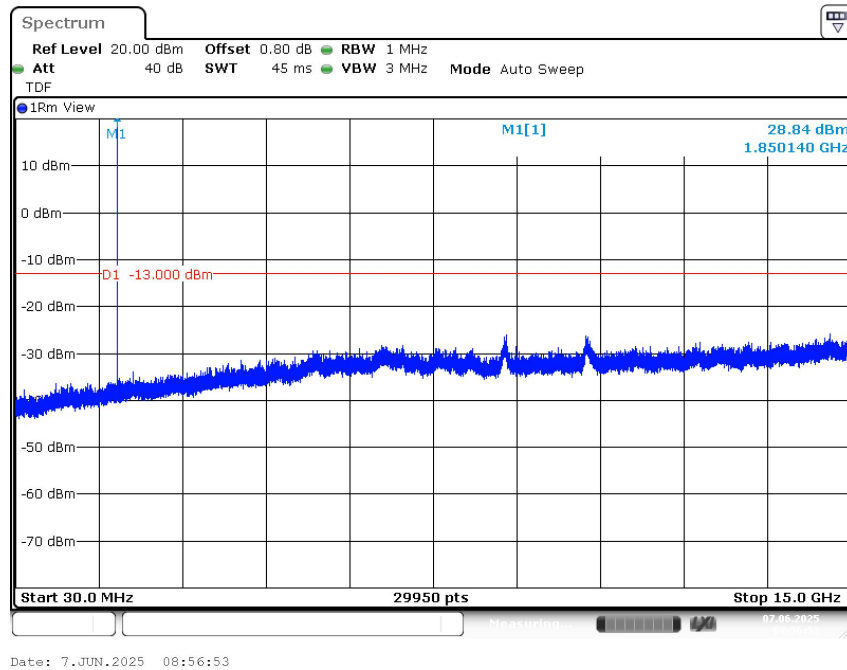


Date: 7.JUN.2025 08:56:04

PCS1900

Channel 512

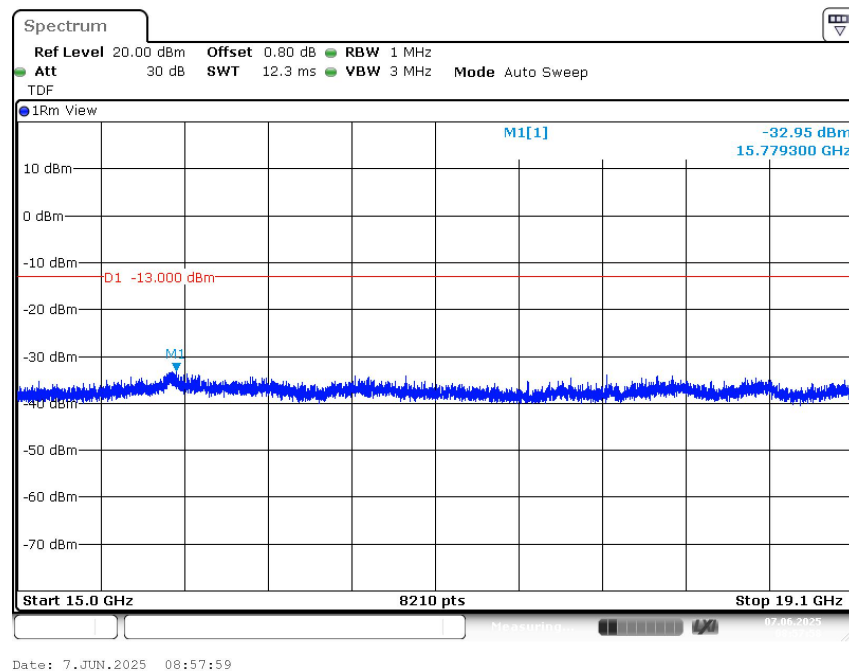
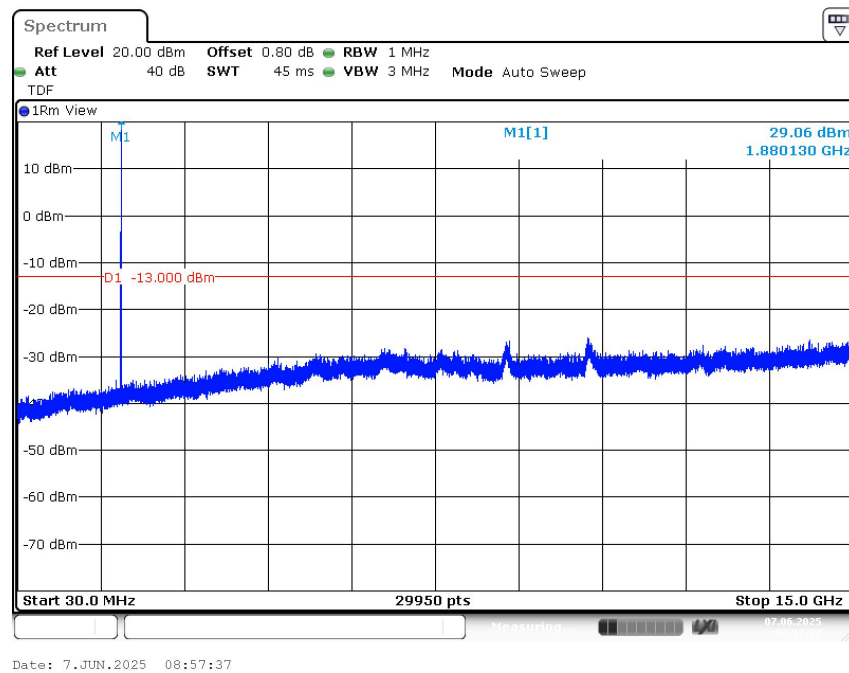
NOTE: peak above the limit line is the carrier frequency.





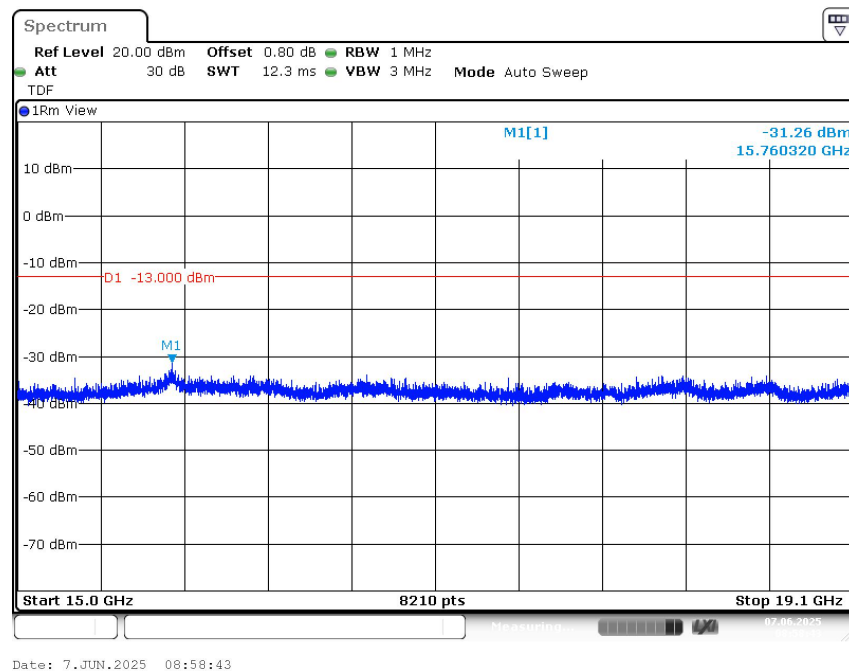
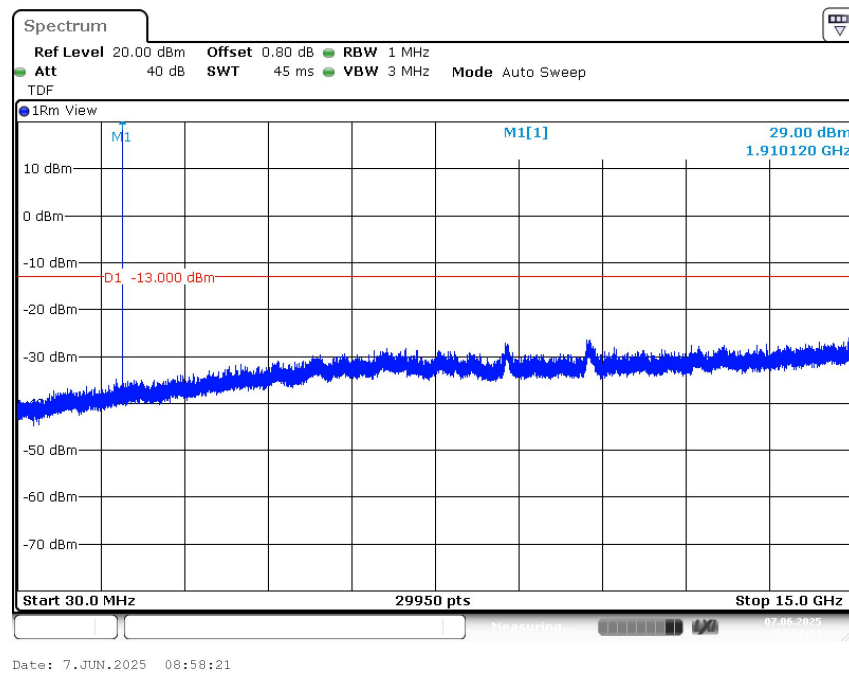
## Channel 661

**NOTE: peak above the limit line is the carrier frequency.**



## Channel 810

**NOTE: peak above the limit line is the carrier frequency.**



## **A.8 Peak-to-Average Power Ratio**

The peak-to-average ratio (PAR) of the transmission may not exceed 13 dB

- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Record the maximum PAPR level associated with a probability of 0.1%.

### **Measurement results**

#### **PCS1900**

##### **Measurement result**

PCS1900	Frequency (MHz)	PAPR (dB)
GSM	1880	4.78
GPRS	1880	4.75
EGPRS	1880	7.62

## Annex B: Accreditation Certificate



### Accredited Laboratory

A2LA has accredited

## TELECOMMUNICATION TECHNOLOGY LABS, CAICT

Beijing, People's Republic of China

for technical competence in the field of

### Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 23<sup>rd</sup> day of July 2024.



Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 7049.01  
Valid to July 31, 2026

*For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.*

\*\*\*END OF REPORT\*\*\*