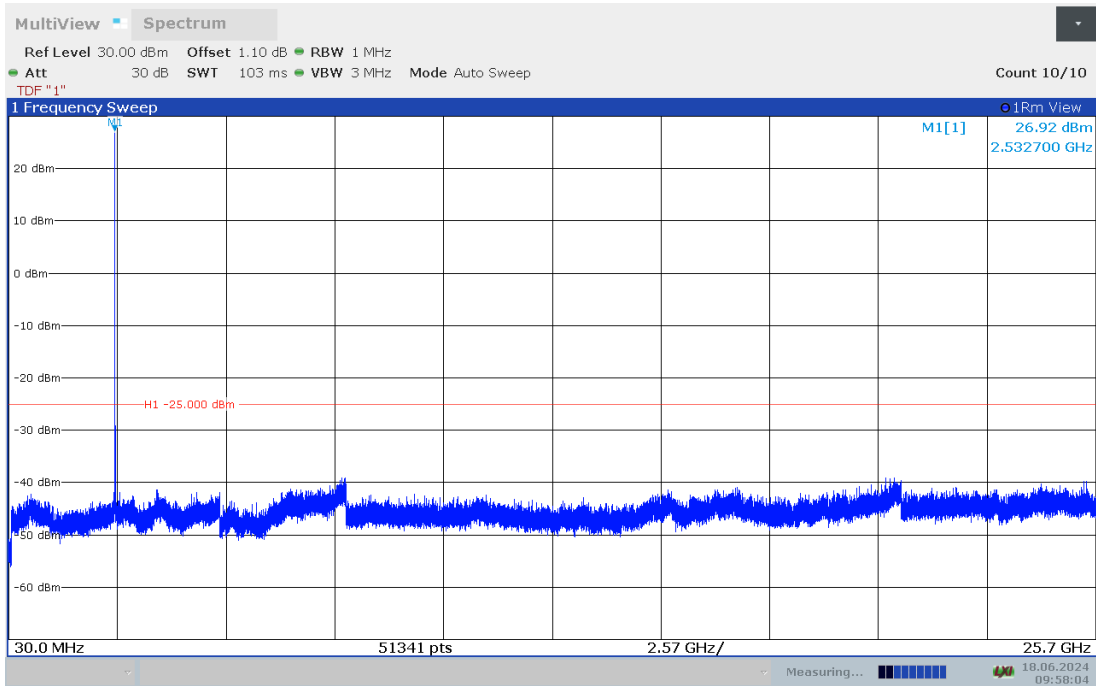


**LTE band 7 20MHz QPSK: 30MHz – 25.7GHz**

Spurious emission limit –25dBm.

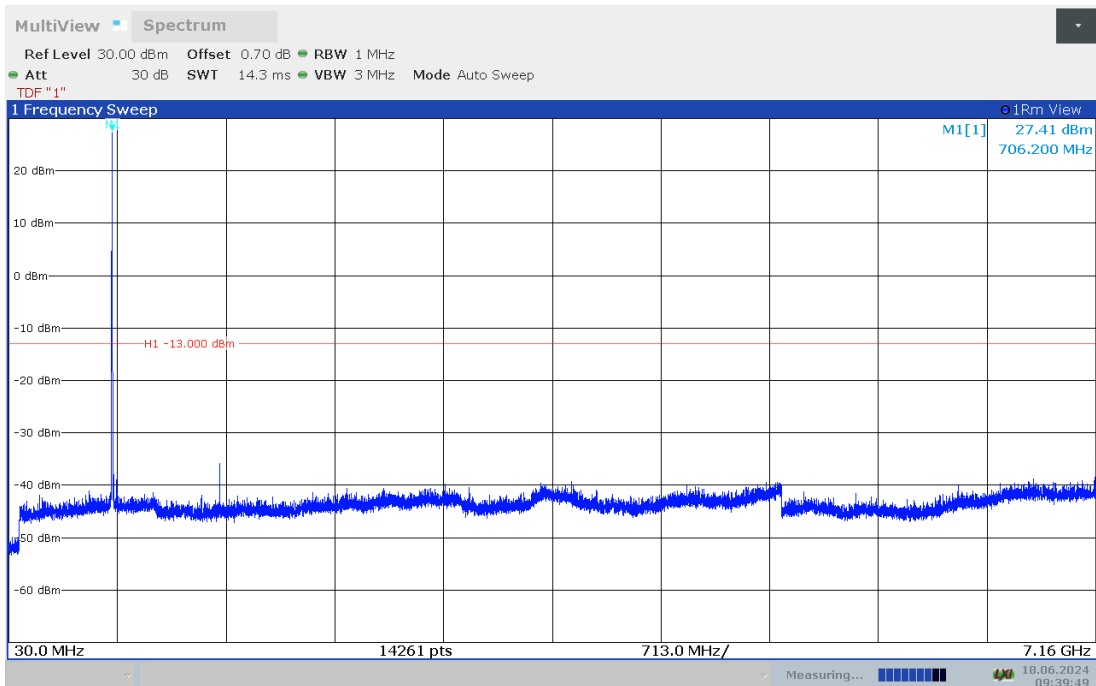
**NOTE: peak above the limit line is the carrier frequency.**



**LTE band 12: 30MHz – 7.16GHz**

Spurious emission limit –13dBm.

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

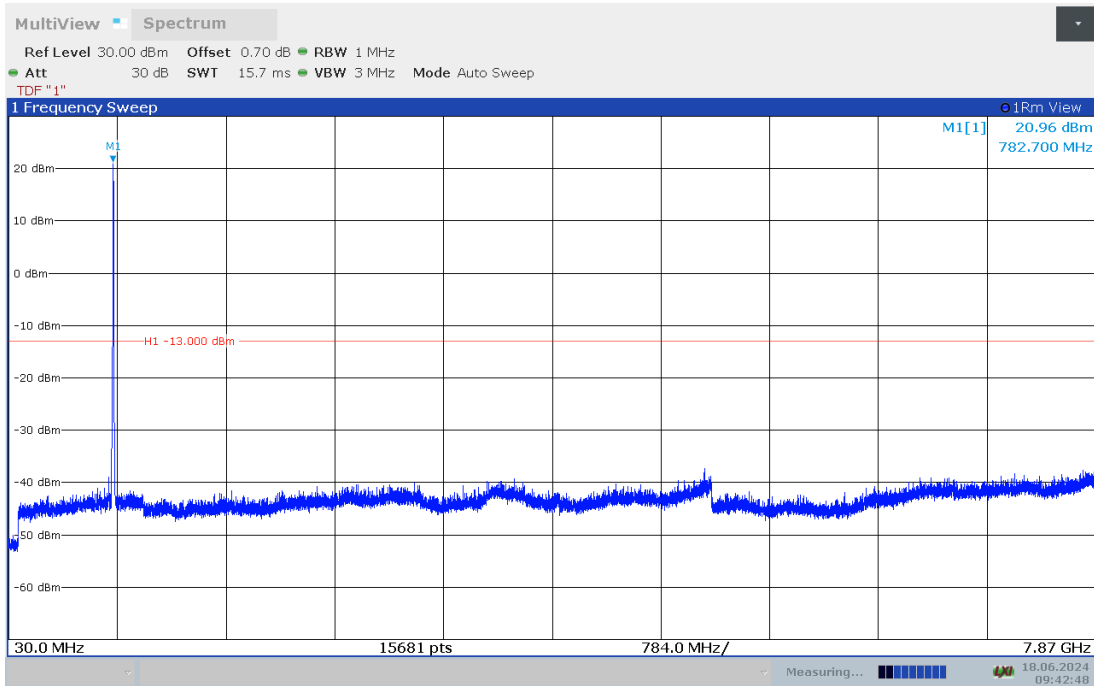




**LTE band 13: 30MHz – 7.87GHz**

Spurious emission limit –13dBm.

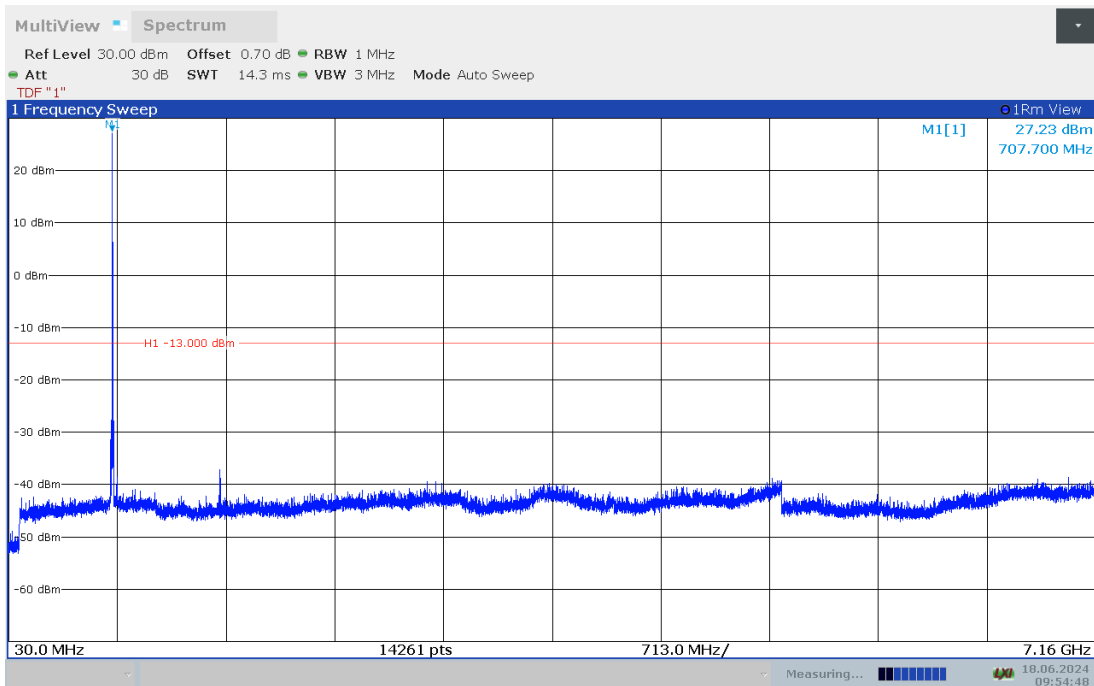
**NOTE: peak above the limit line is the carrier frequency.**



**LTE band 17: 30MHz – 7.16GHz**

Spurious emission limit –13dBm.

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

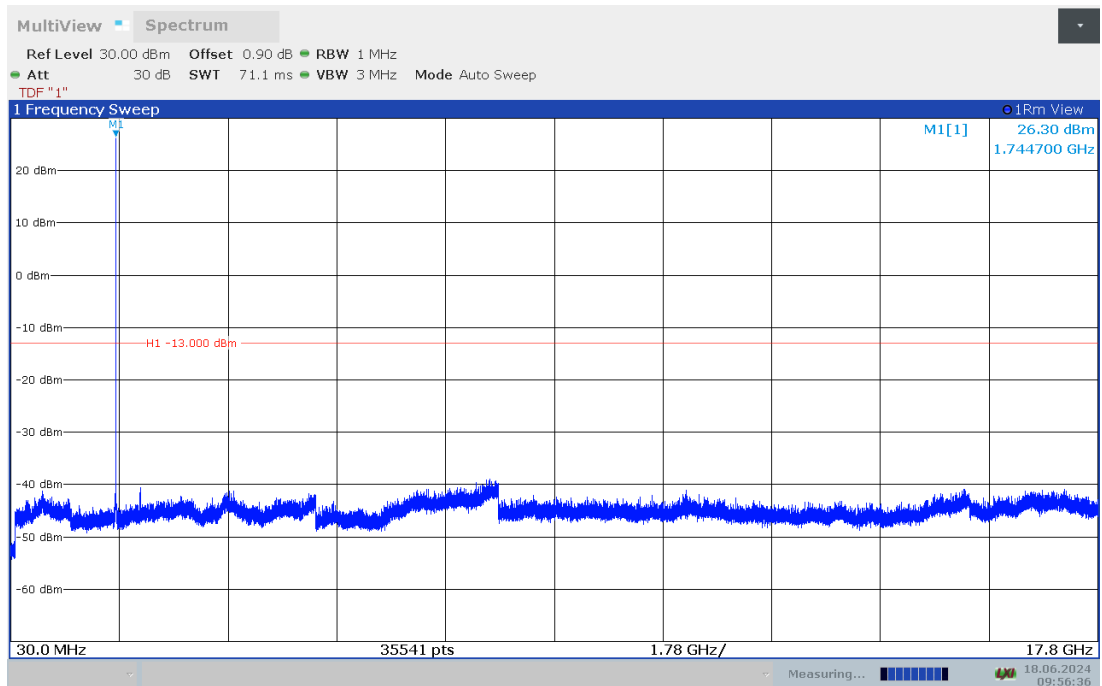




**LTE Band 66: 30MHz – 17.8GHz**

Spurious emission limit -13dBm.

**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

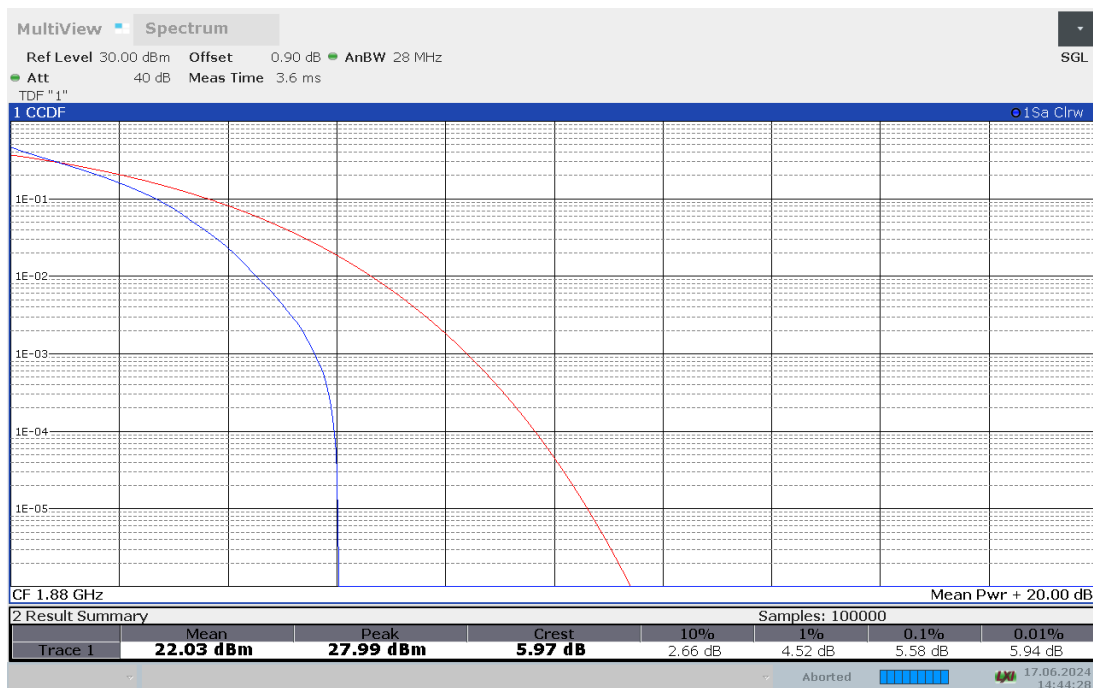
- a) Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- b) Set resolution/measurement bandwidth  $\geq$  signal's occupied bandwidth;
- c) Set the number of counts to a value that stabilizes the measured CCDF curve;
- d) Record the maximum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

Measurement results

#### LTE Band 2, BW1.4MHz

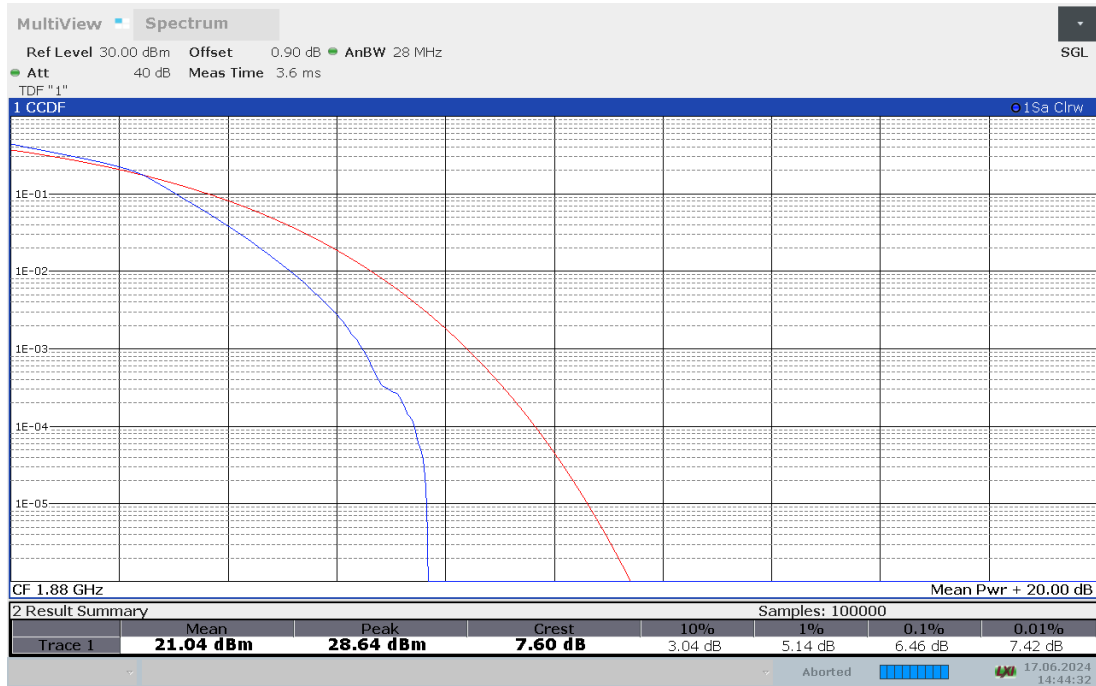
Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1880	100%,0	5.58	6.46

#### LTE band 2 , 1.4MHz Bandwidth,QPSK





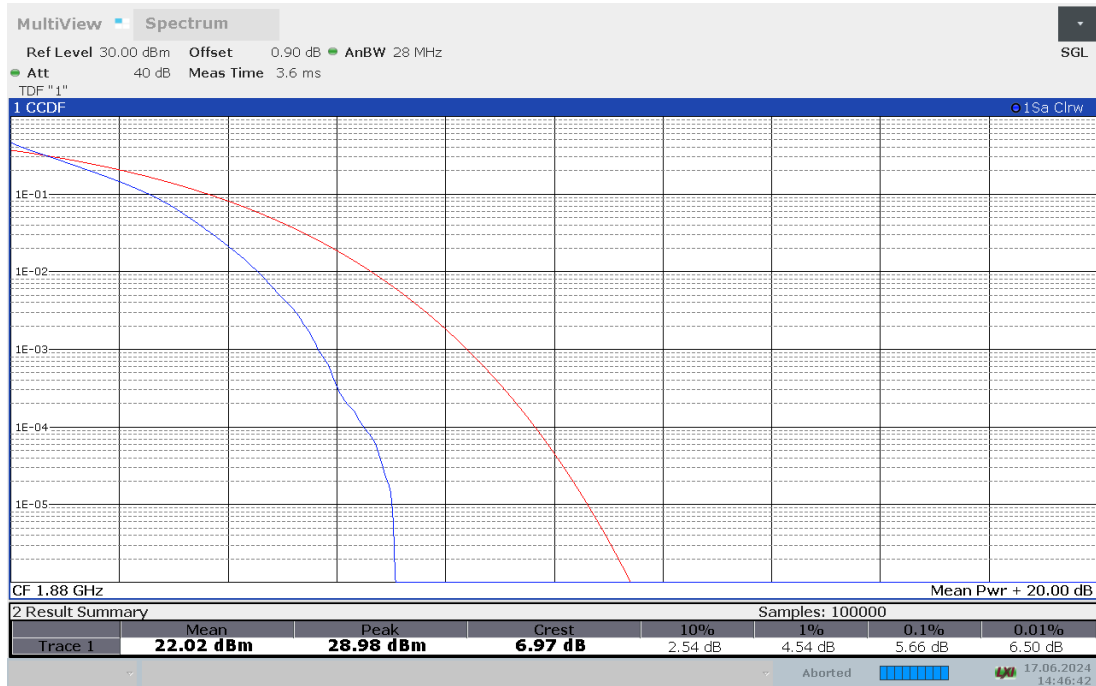
### LTE band 2 , 1.4MHz Bandwidth,16QAM



**LTE Band 2, 3MHz**

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1880	100%,0	5.66	6.54

**LTE band 2 , 3MHz Bandwidth,QPSK**



**LTE band 2 , 3MHz Bandwidth,16QAM**



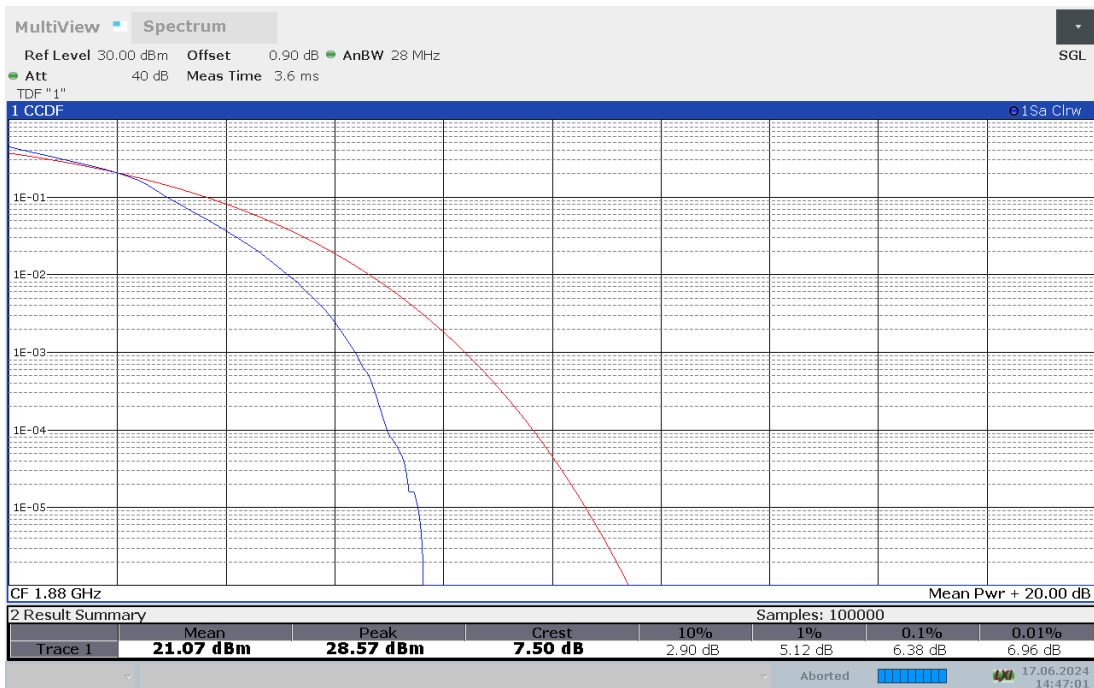
**LTE Band 2, 5MHz**

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1880	100%,0	5.74	6.38

**LTE band 2 , 5MHz Bandwidth,QPSK**



**LTE band 2 , 5MHz Bandwidth,16QAM**

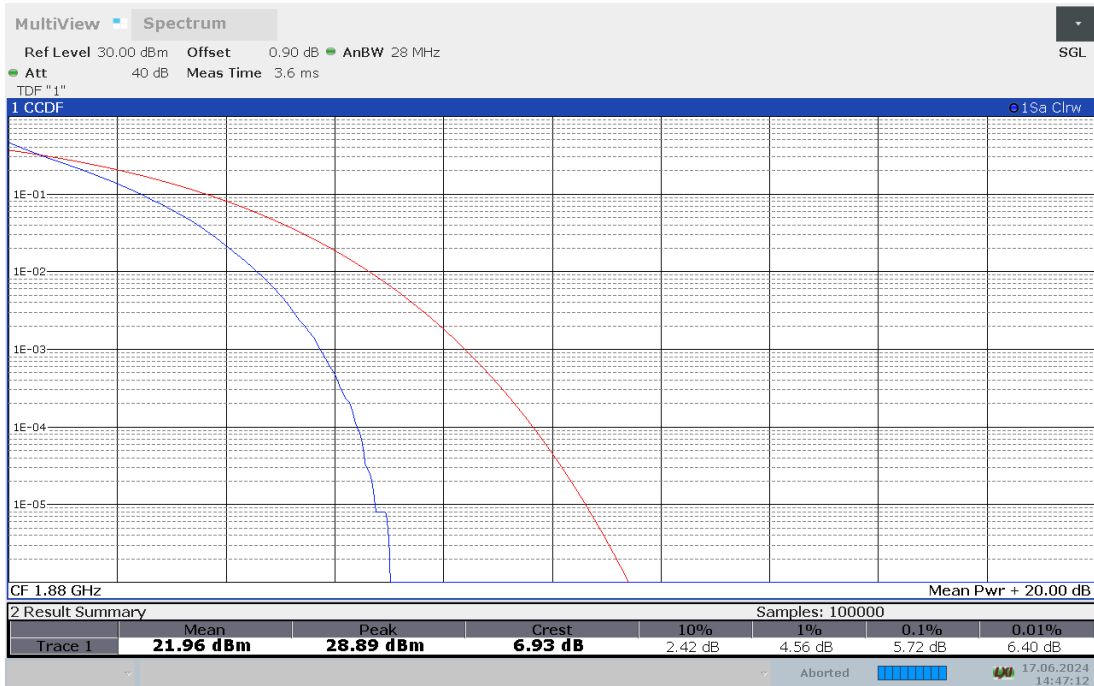




LTE Band 2, 10MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1880	100%,0	5.72	6.48

LTE band 2 , 10MHz Bandwidth,QPSK



LTE band 2 , 10MHz Bandwidth,16QAM

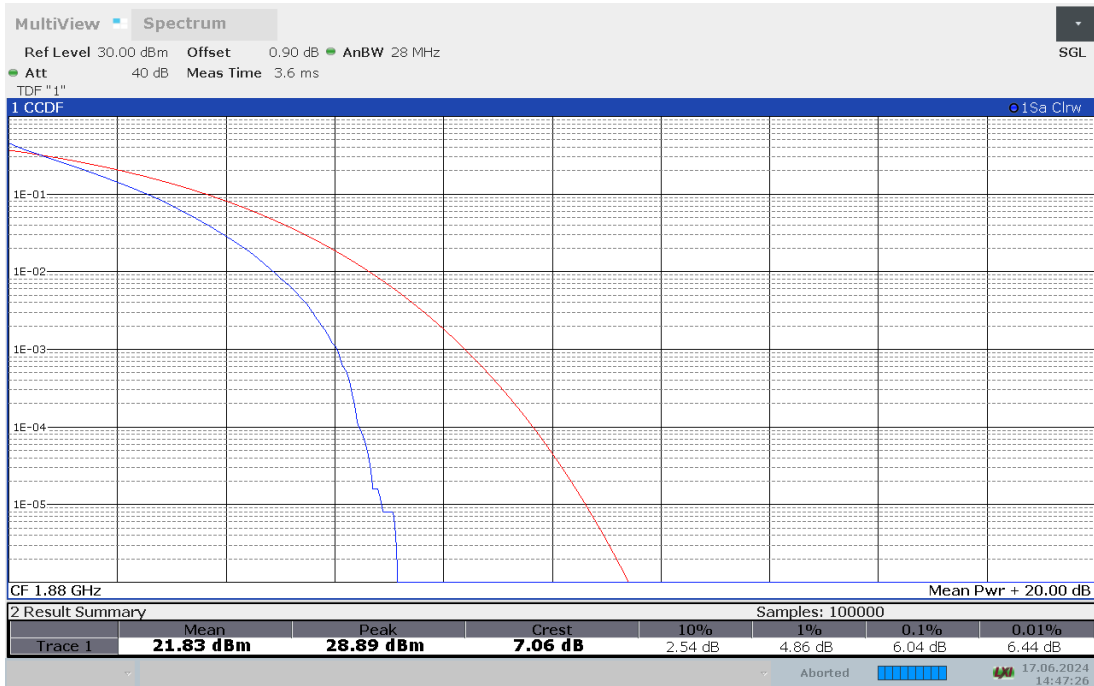




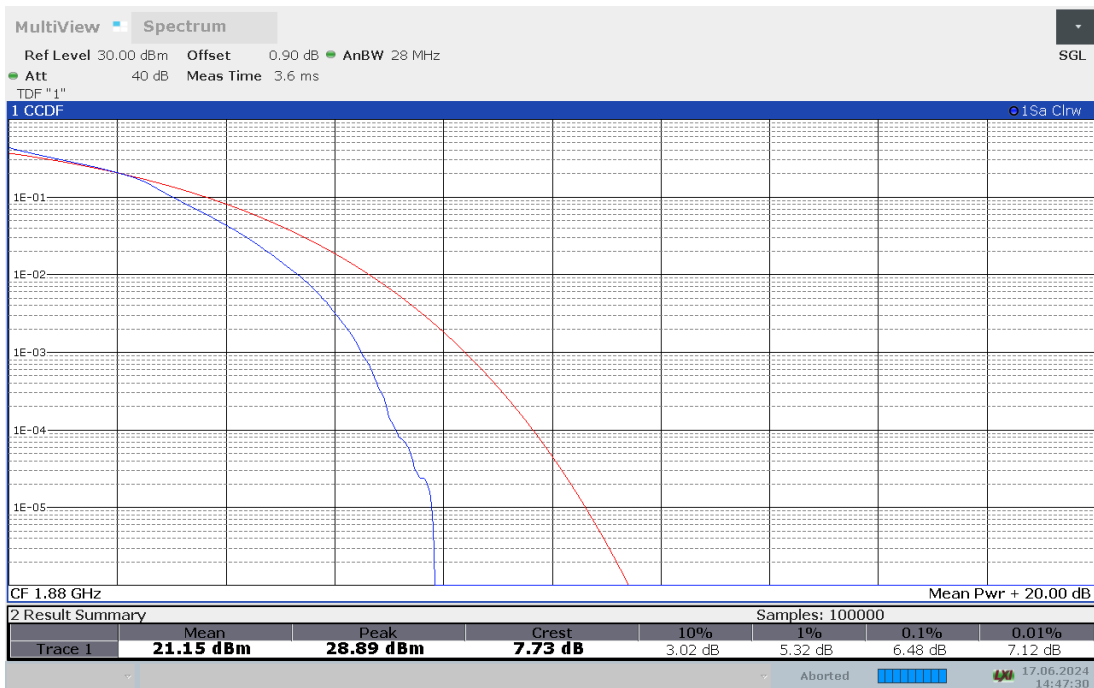
LTE Band 2, 15MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1880	100%,0	6.04	6.48

LTE band 2 , 15MHz Bandwidth,QPSK



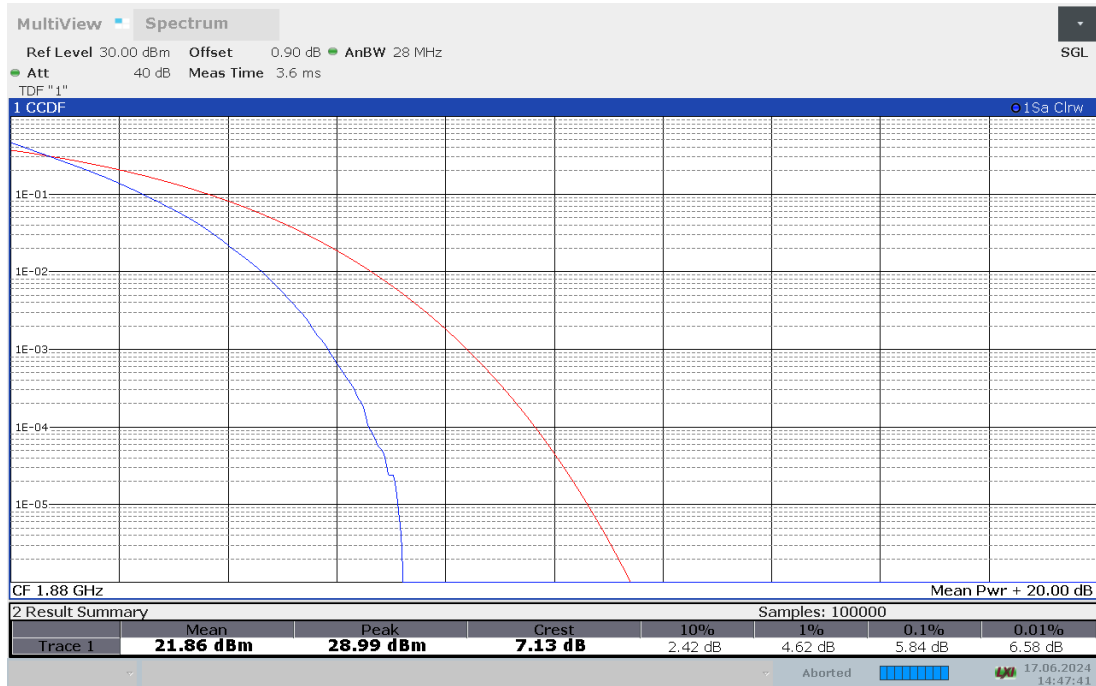
LTE band 2 , 15MHz Bandwidth,16QAM



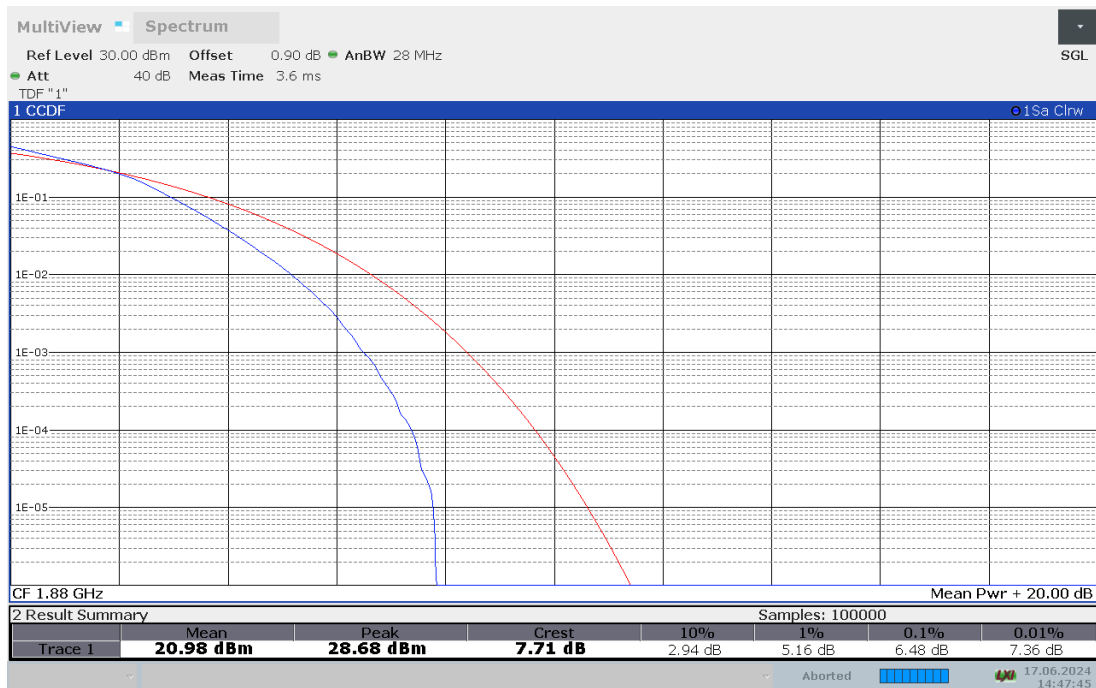
LTE Band 2, 20MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1880	100%,0	5.84	6.48

LTE band 2 , 20MHz Bandwidth,QPSK



LTE band 2 , 20MHz Bandwidth,16QAM

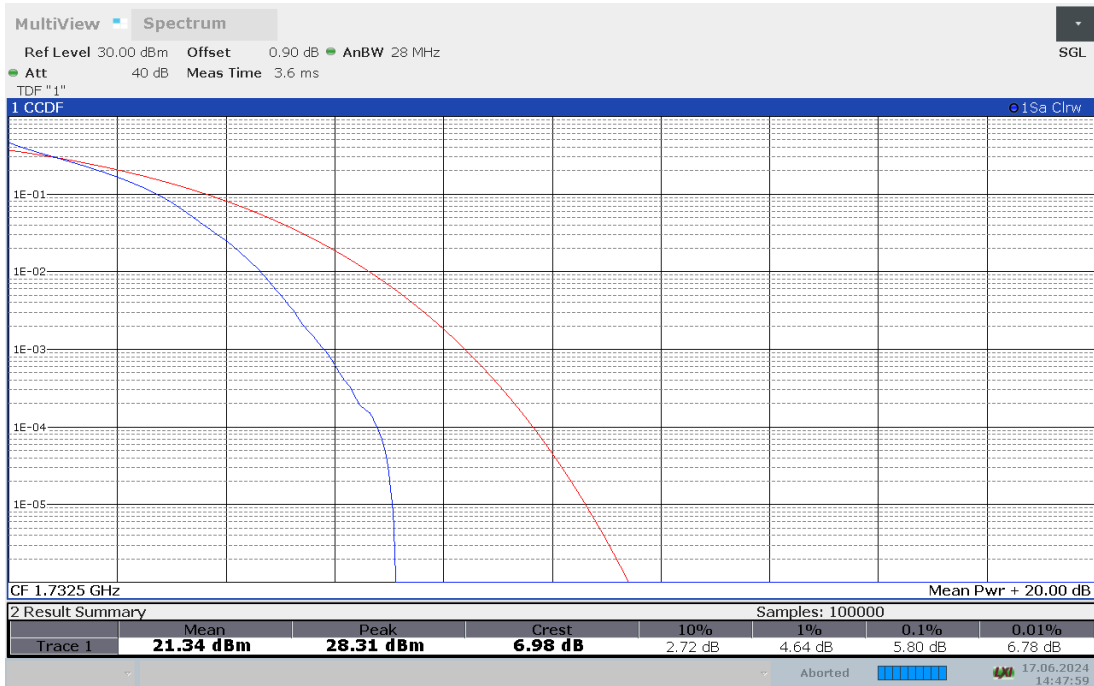




LTE Band 4, BW1.4MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1732.5	100%,0	5.80	6.28

LTE band 4 , 1.4MHz Bandwidth,QPSK



LTE band 4 , 1.4MHz Bandwidth,16QAM

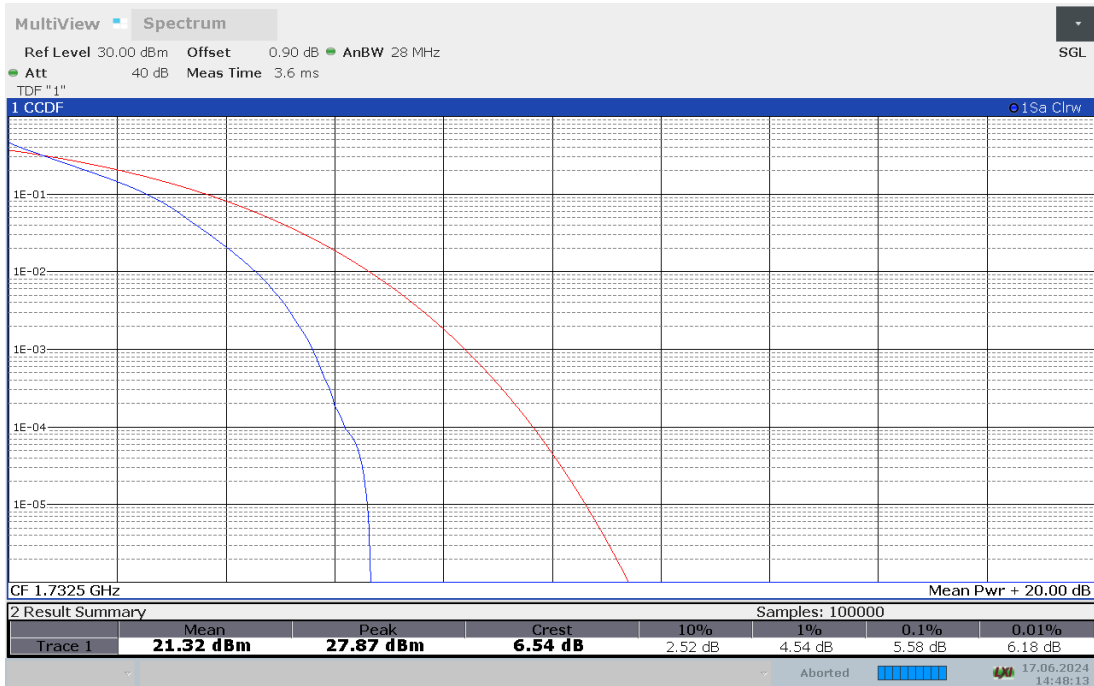




LTE Band 4, 3MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1732.5	100%,0	5.58	6.66

LTE band 4 , 3MHz Bandwidth,QPSK



LTE band 4 , 3MHz Bandwidth,16QAM

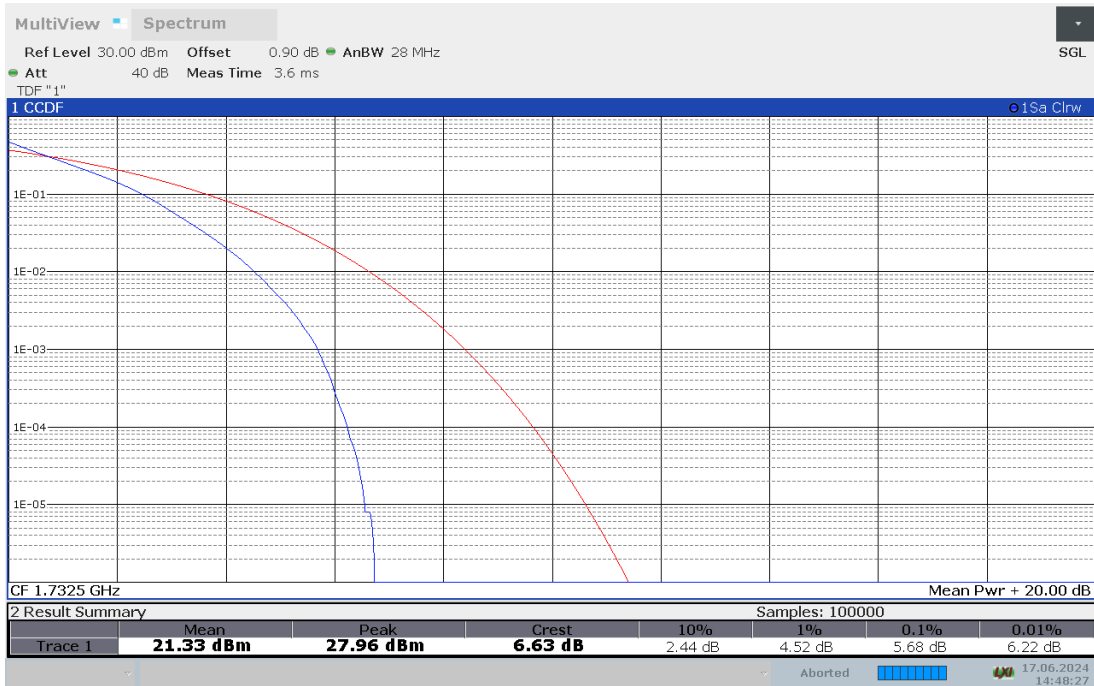




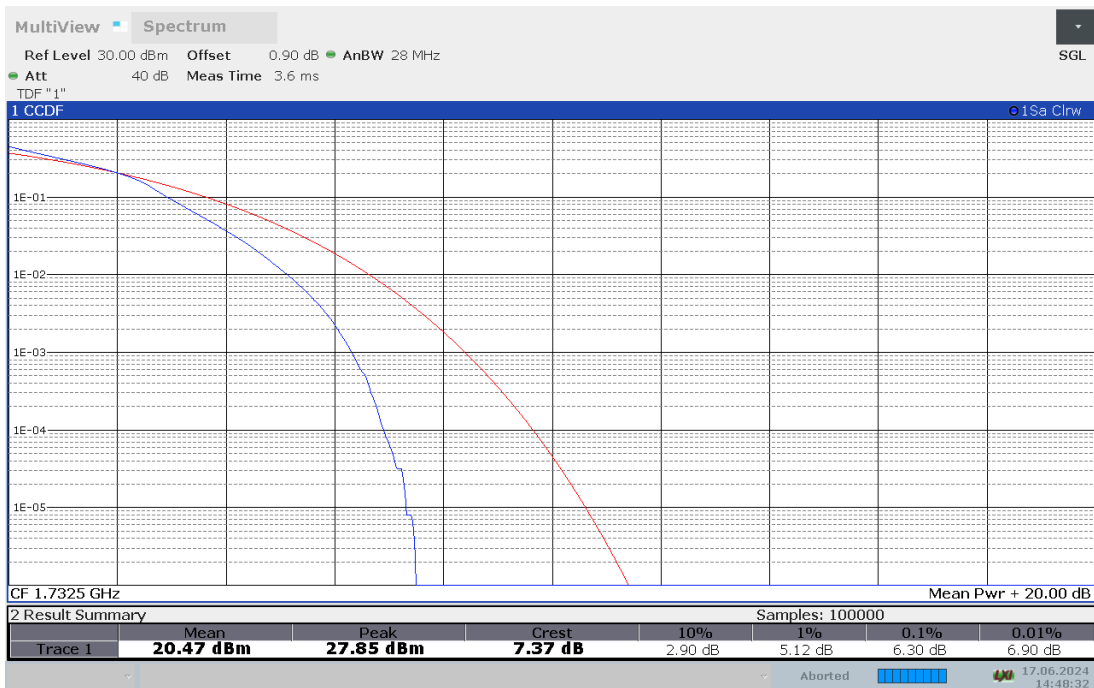
**LTE Band 4, 5MHz**

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1732.5	100%,0	5.68	6.30

**LTE band 4 , 5MHz Bandwidth,QPSK**



**LTE band 4 , 5MHz Bandwidth,16QAM**

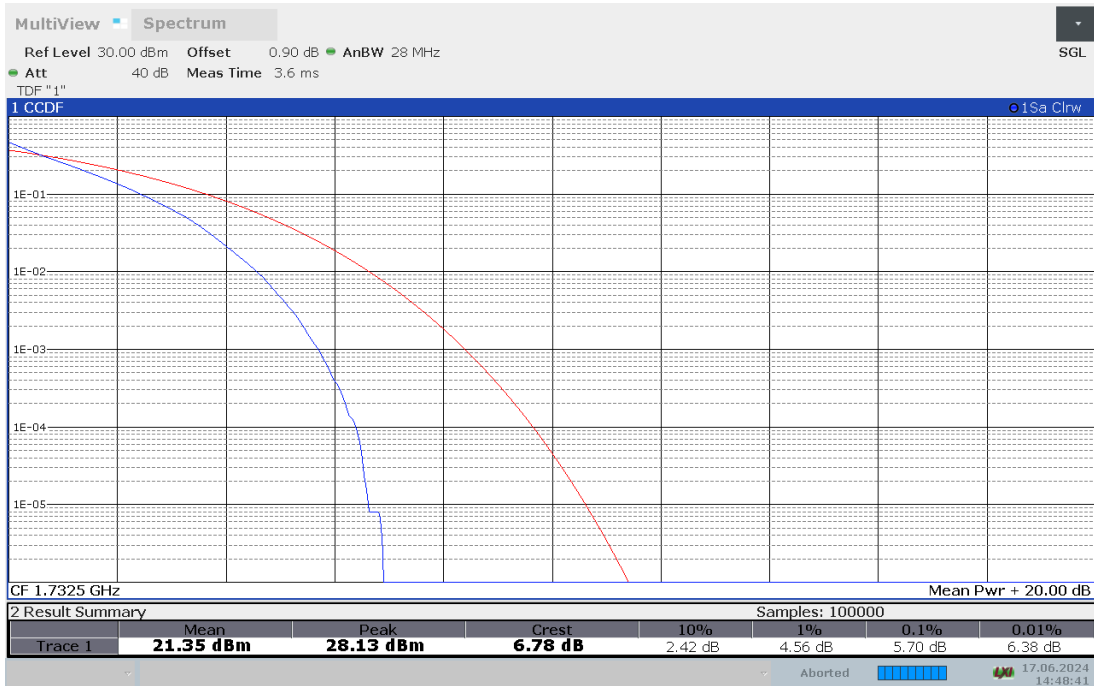




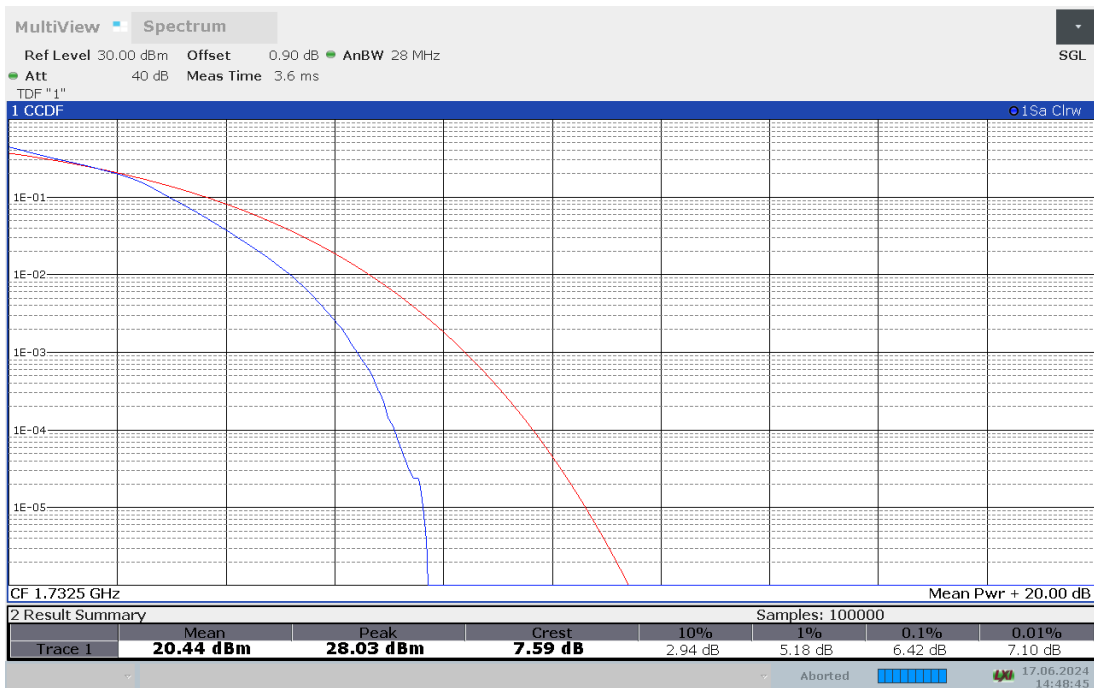
LTE Band 4, 10MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1732.5	100%,0	5.70	6.42

LTE band 4 , 10MHz Bandwidth,QPSK



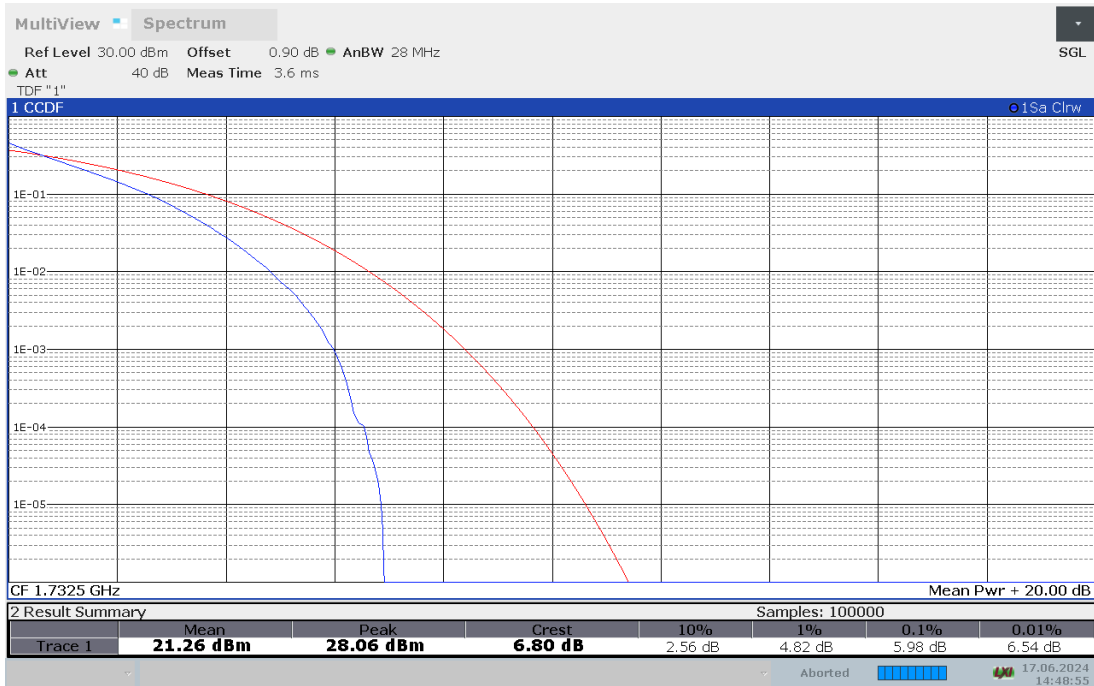
LTE band 4 , 10MHz Bandwidth,16QAM



**LTE Band 4, 15MHz**

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1732.5	100%,0	5.98	6.46

**LTE band 4 , 15MHz Bandwidth,QPSK**



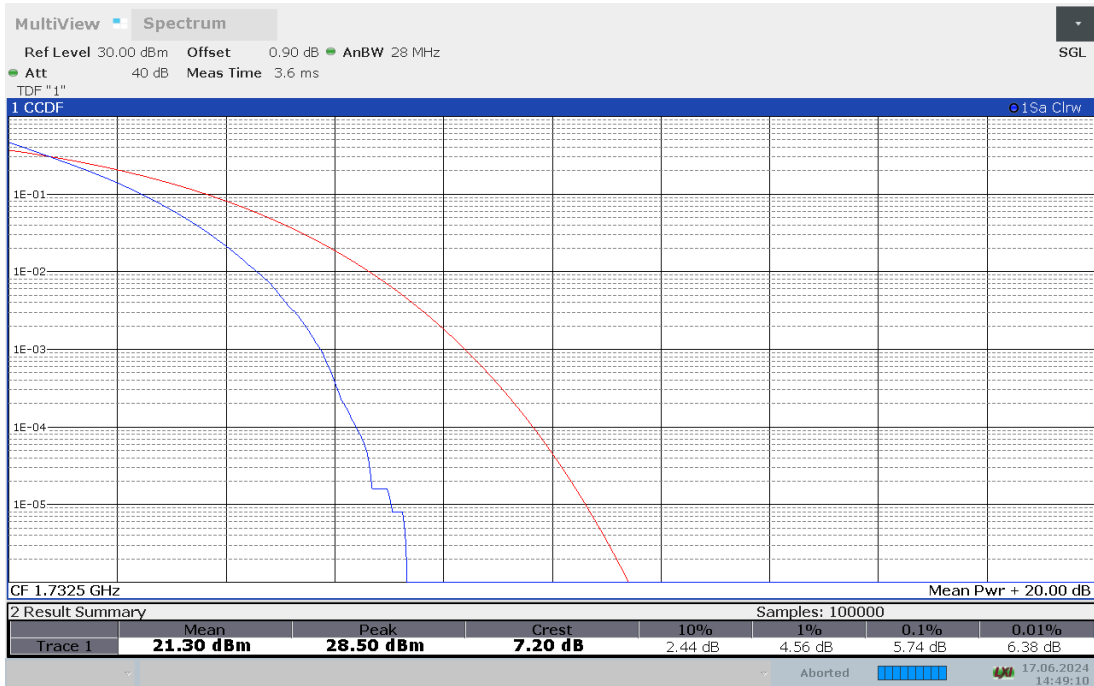
**LTE band 4 , 15MHz Bandwidth,16QAM**



LTE Band 4, 20MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1732.5	100%,0	5.74	6.52

LTE band 4 , 20MHz Bandwidth,QPSK



LTE band 4 , 20MHz Bandwidth,16QAM



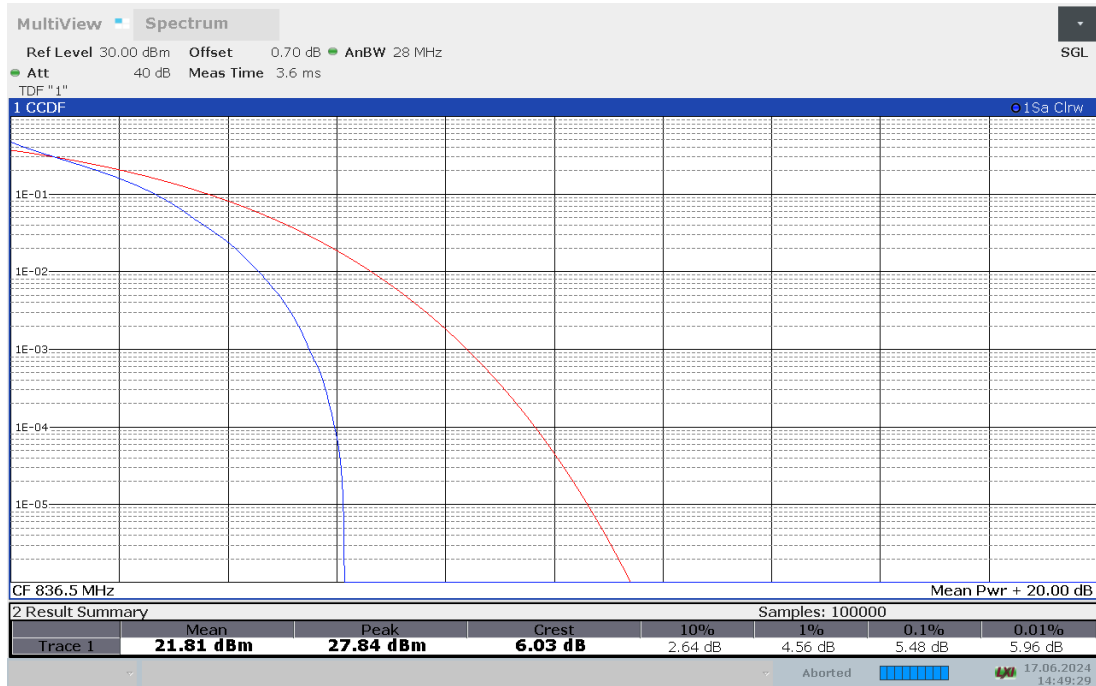




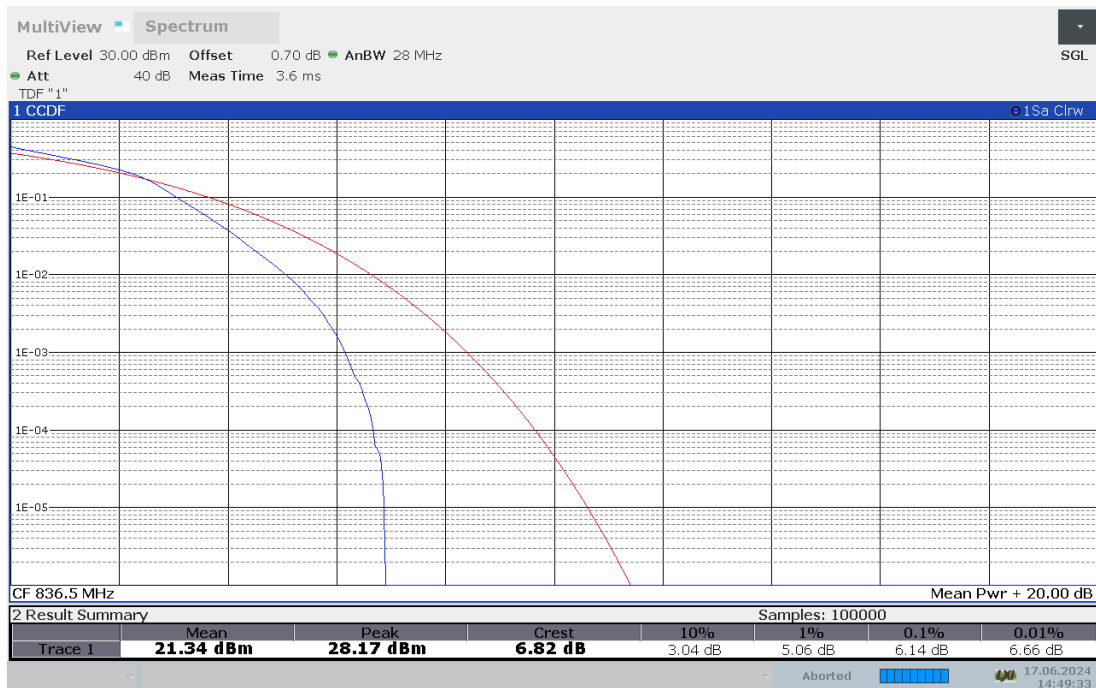
LTE Band 5, BW1.4MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
836.5	100%,0	5.48	6.14

LTE band 5 , 1.4MHz Bandwidth,QPSK



LTE band 5 , 1.4MHz Bandwidth,16QAM

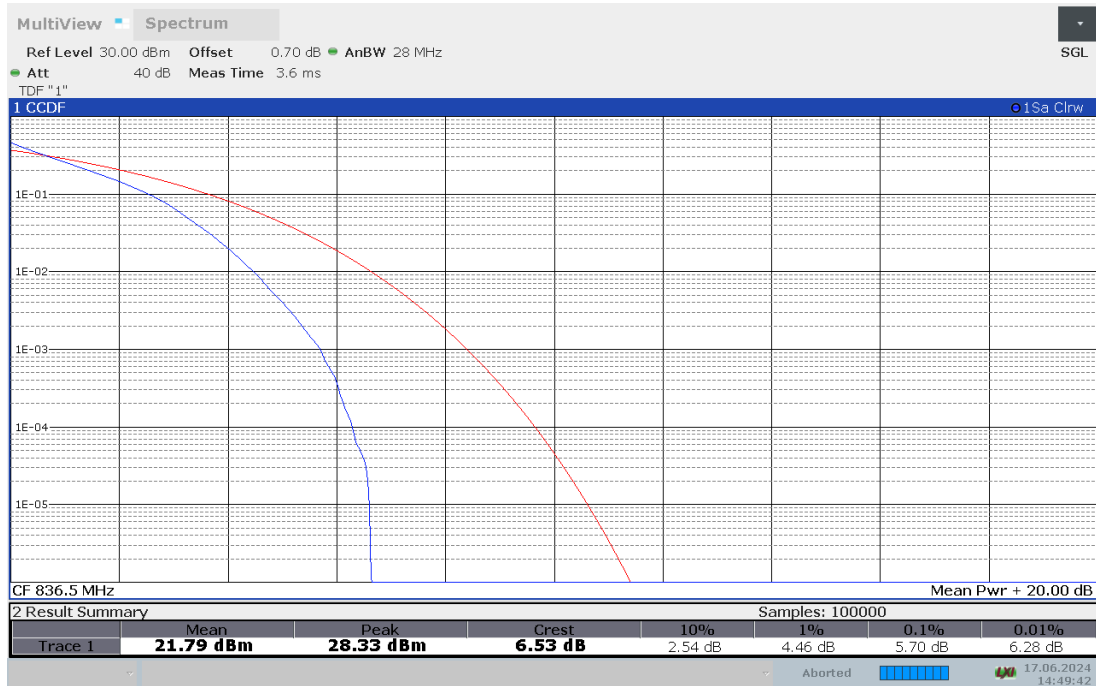




LTE Band 5, 3MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
836.5	100%,0	5.70	6.40

LTE band 5 , 3MHz Bandwidth,QPSK



LTE band 5 , 3MHz Bandwidth,16QAM

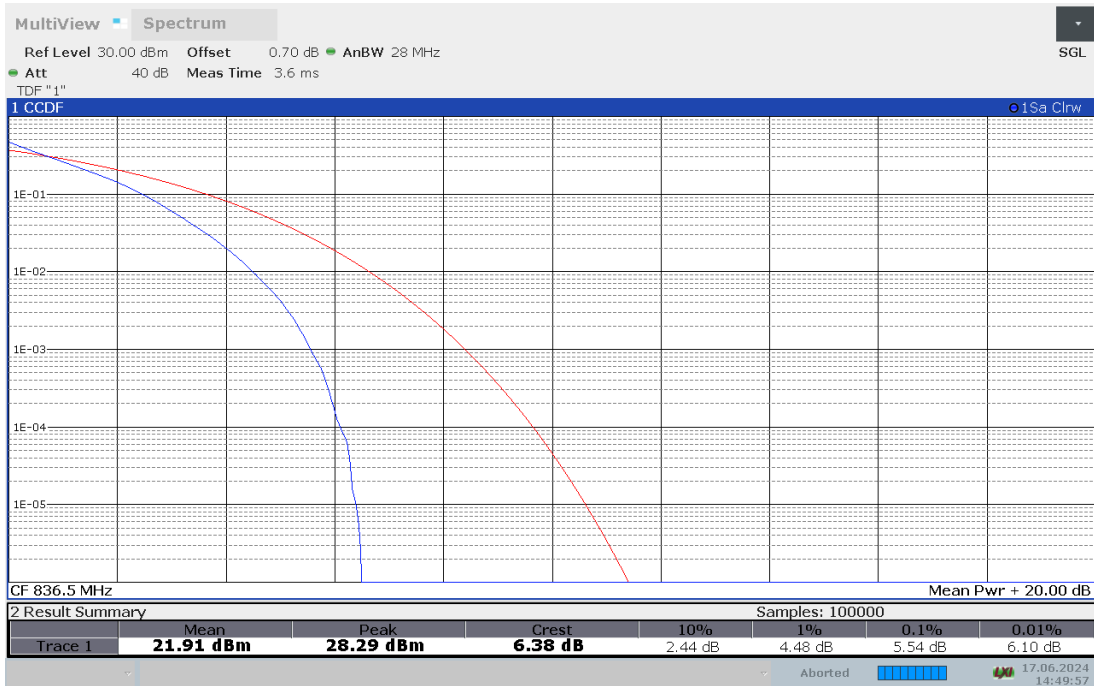




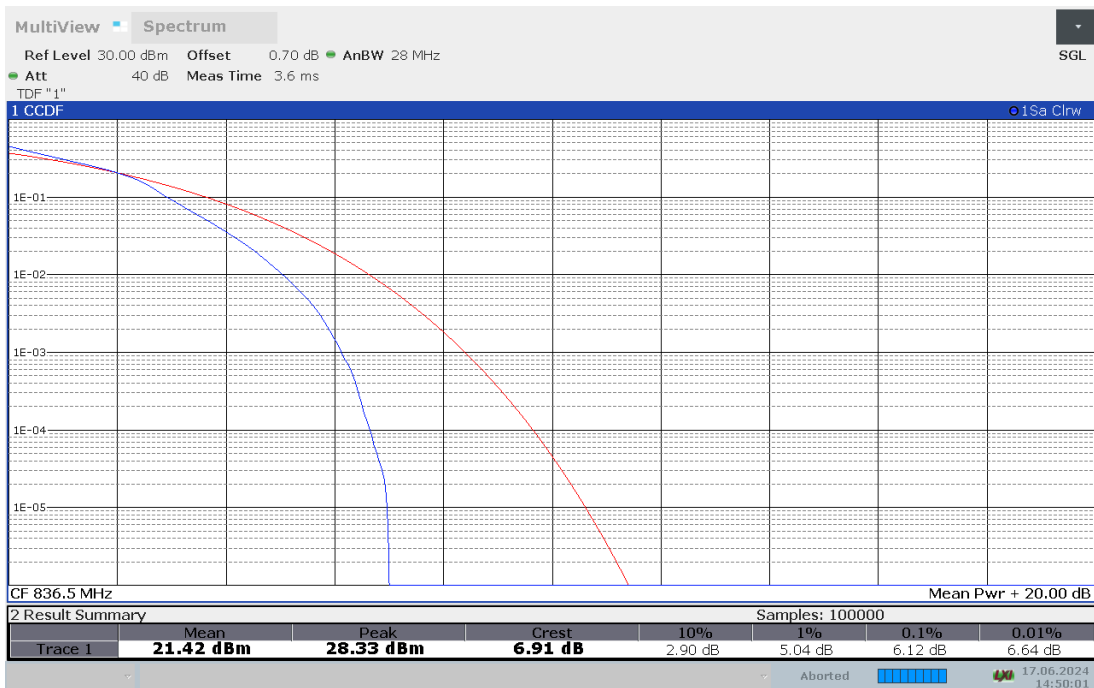
LTE Band 5, 5MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
836.5	100%,0	5.54	6.12

LTE band 5 , 5MHz Bandwidth,QPSK



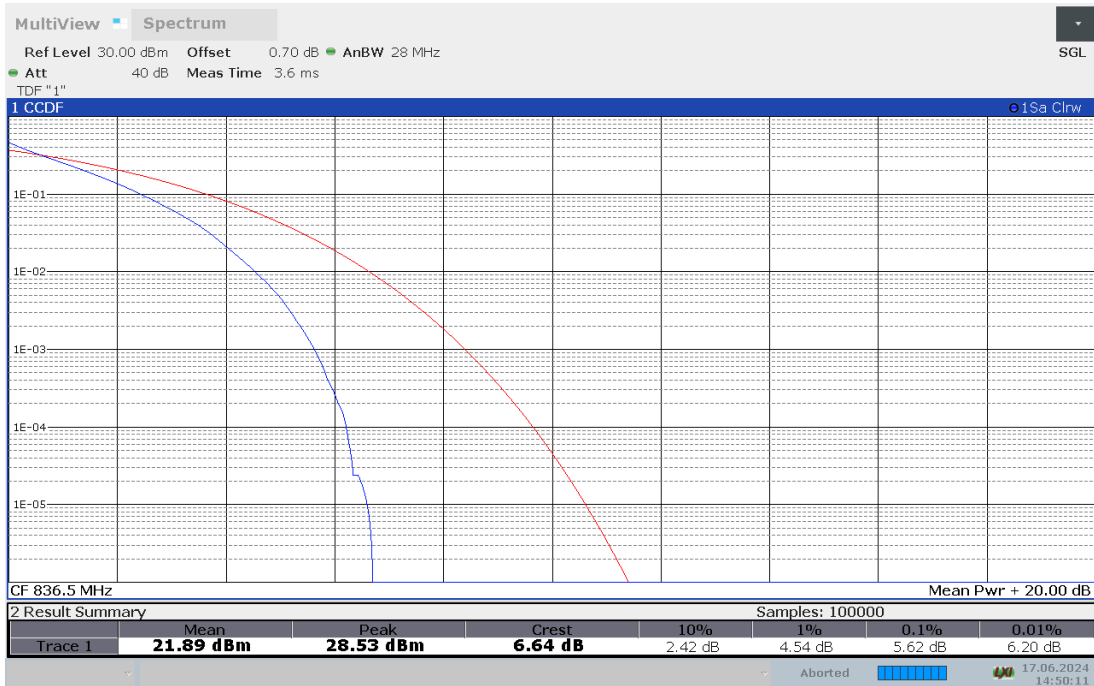
LTE band 5 , 5MHz Bandwidth,16QAM



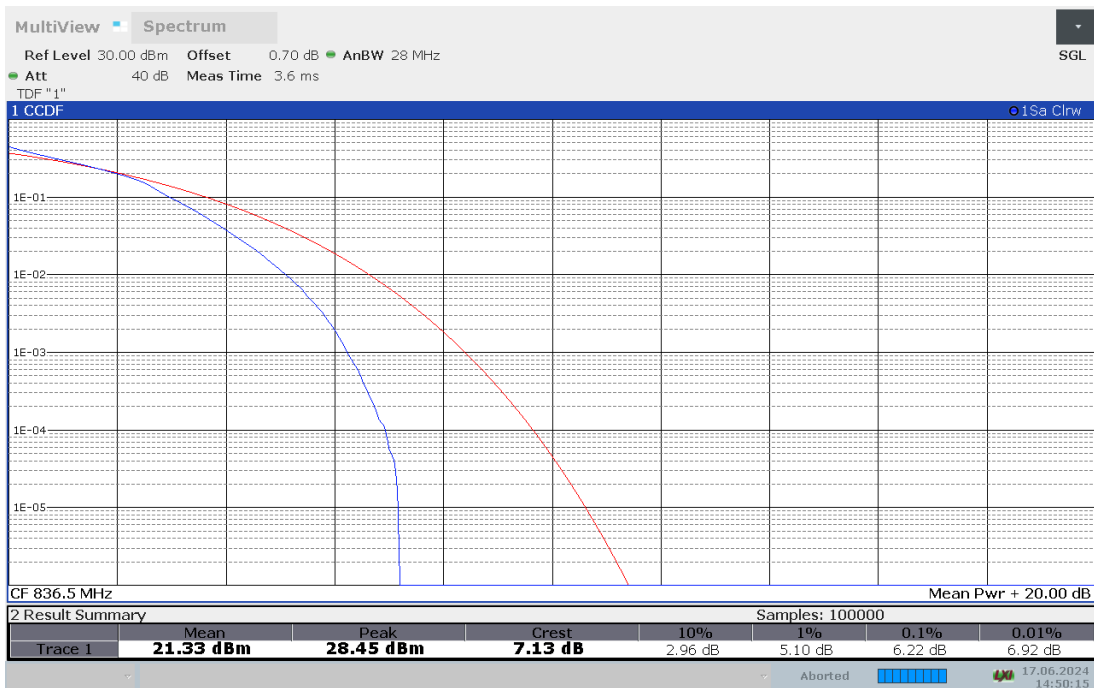
LTE Band 5, 10MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
836.5	100%,0	5.62	6.22

LTE band 5 , 10MHz Bandwidth,QPSK



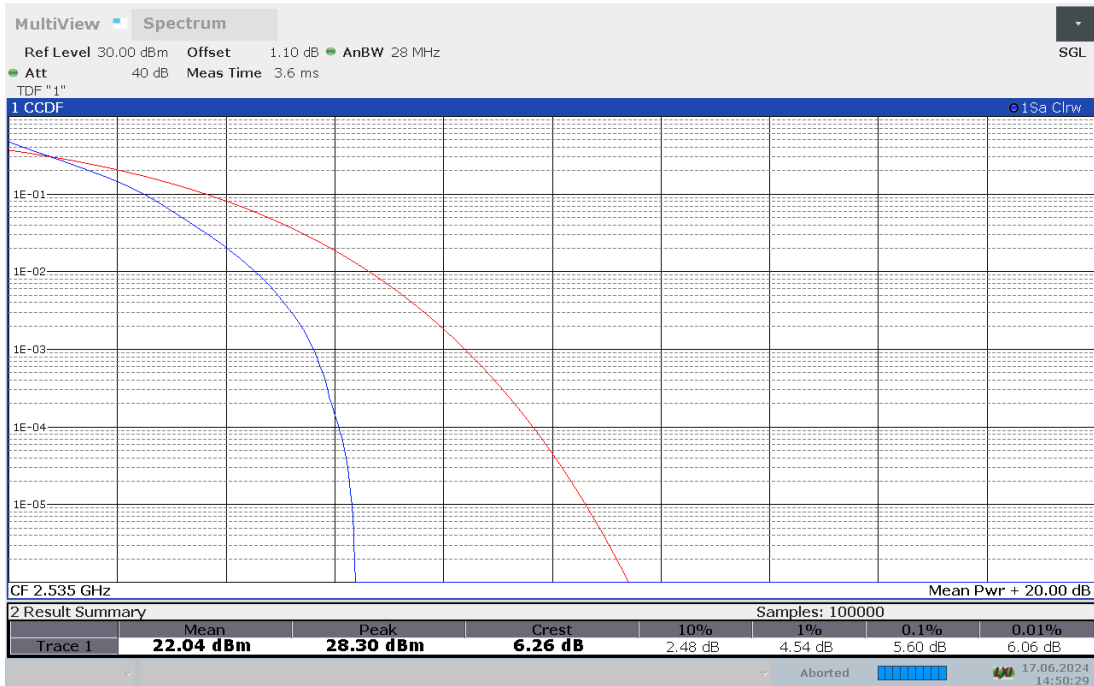
LTE band 5 , 10MHz Bandwidth,16QAM



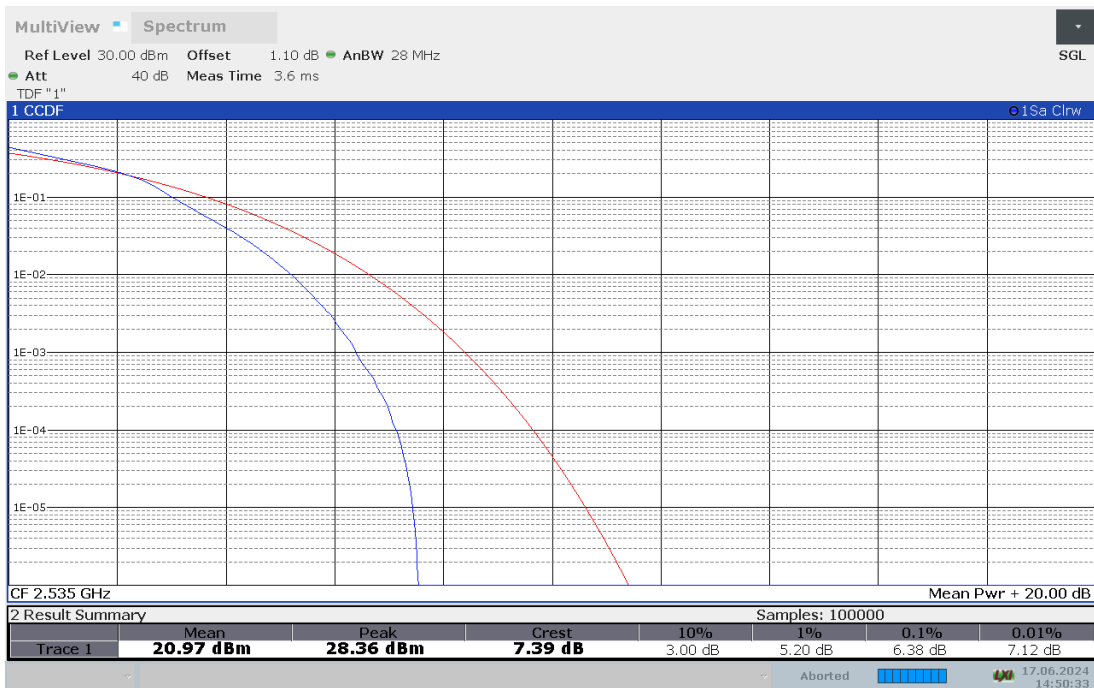
**LTE Band 7, 5MHz**

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
2535	100%,0	5.60	6.38

**LTE band 7 , 5MHz Bandwidth,QPSK**



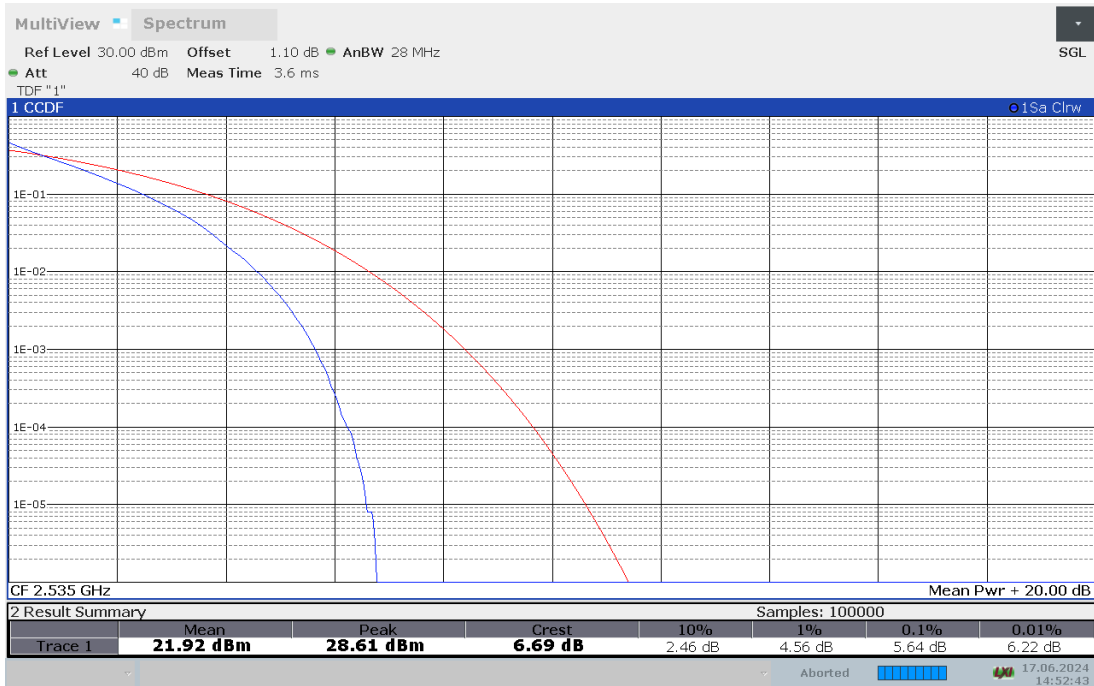
**LTE band 7 , 5MHz Bandwidth,16QAM**



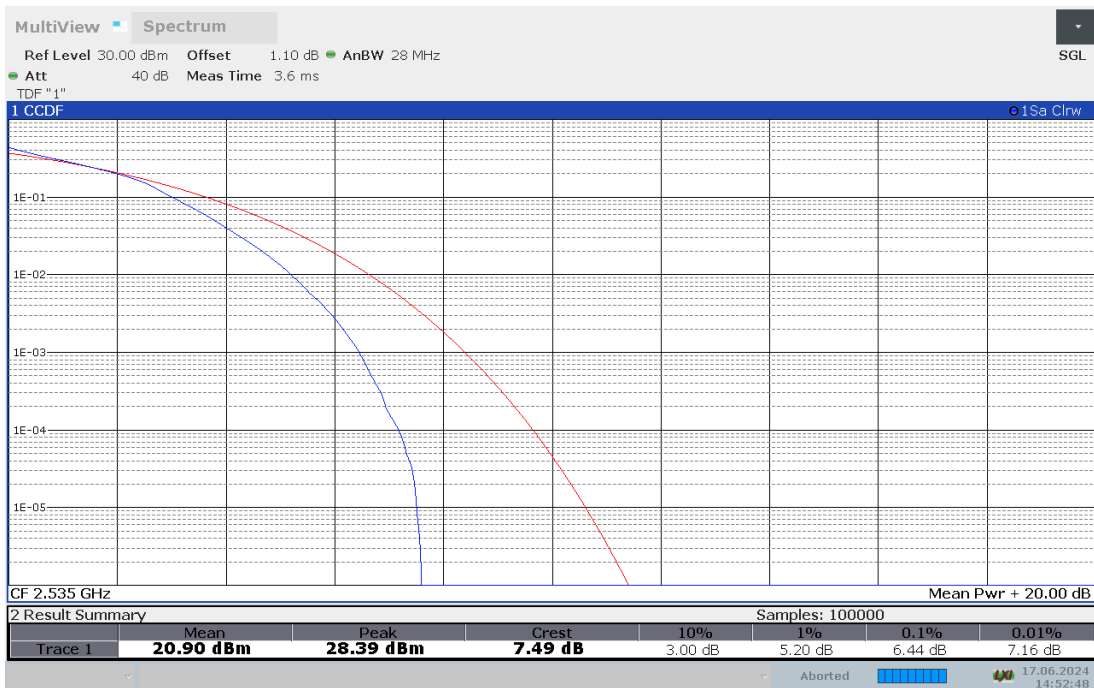
LTE Band 7, 10MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
2535	100%,0	5.64	6.44

LTE band 7 , 10MHz Bandwidth,QPSK



LTE band 7 , 10MHz Bandwidth,16QAM

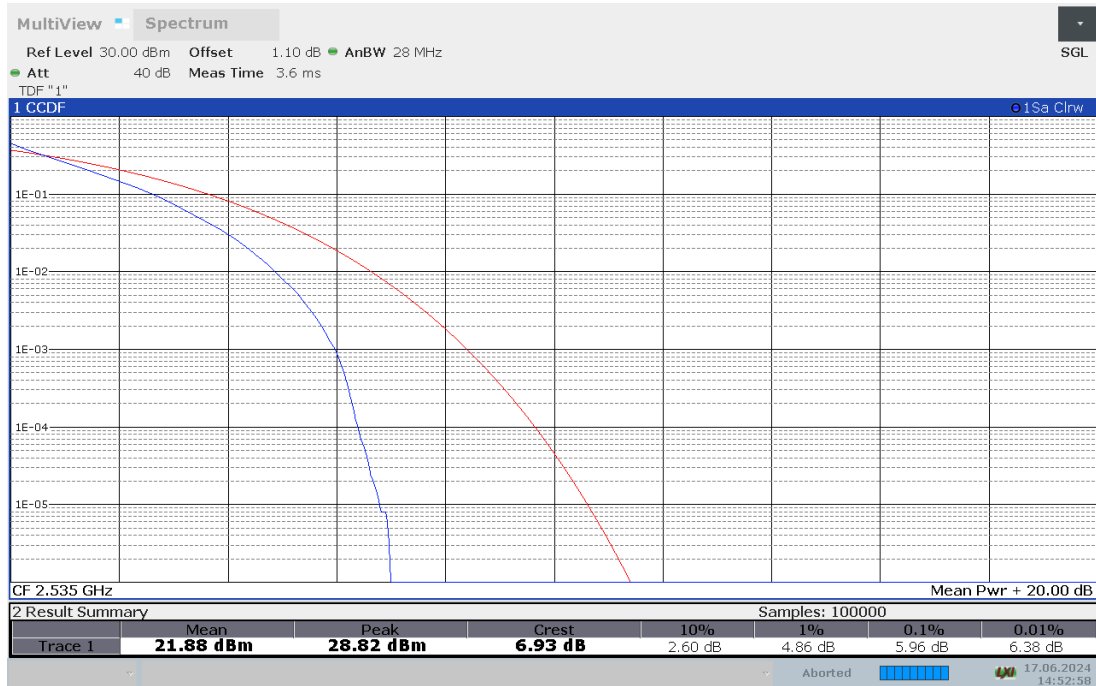




LTE Band 7, 15MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
2535	100%,0	5.96	6.48

LTE band 7 , 15MHz Bandwidth,QPSK



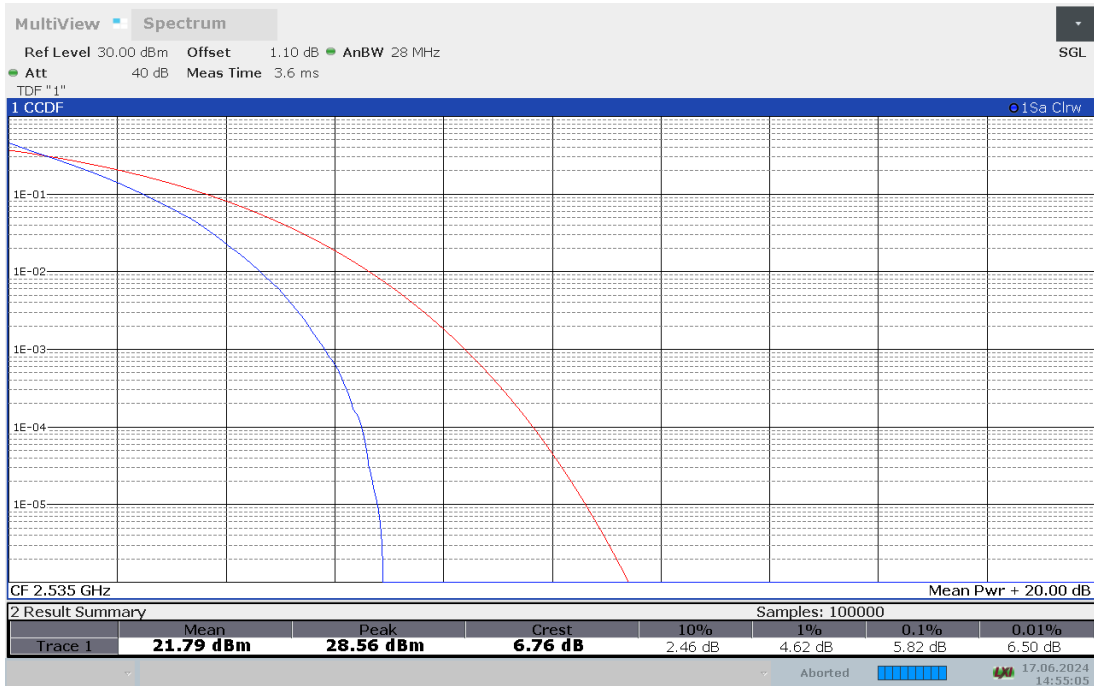
LTE band 7 , 15MHz Bandwidth,16QAM



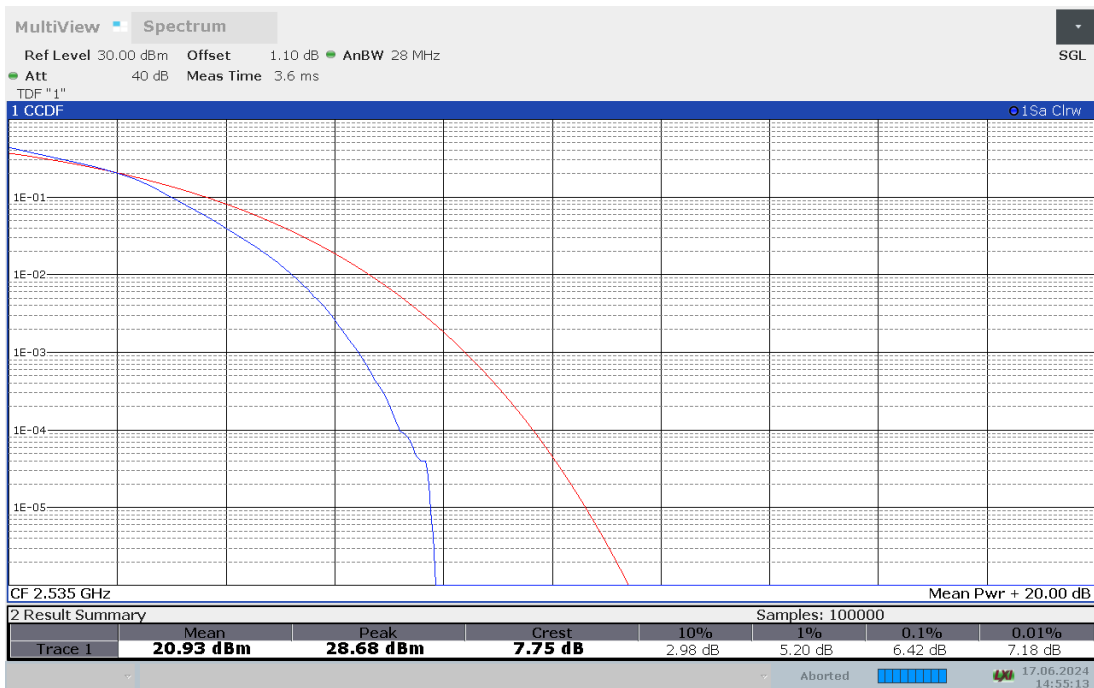
LTE Band 7, 20MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
2535	100%,0	5.82	6.42

LTE band 7 , 20MHz Bandwidth,QPSK



LTE band 7 , 20MHz Bandwidth,16QAM

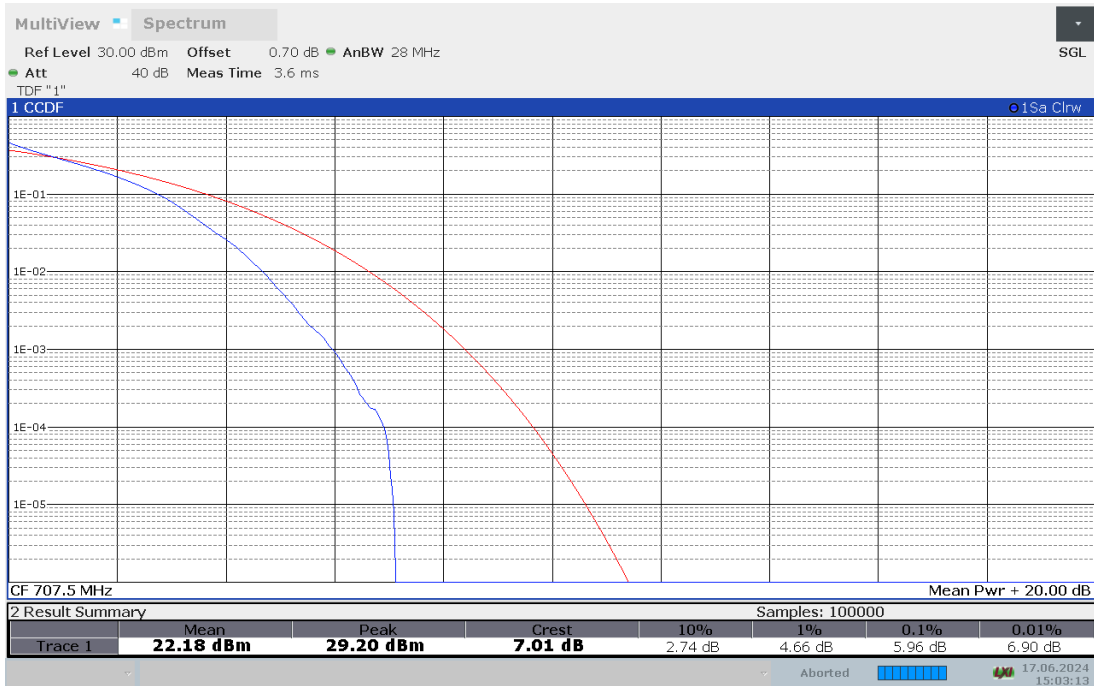




LTE Band 12, BW1.4MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
707.5	100%,0	5.96	6.42

LTE band 12 , 1.4MHz Bandwidth,QPSK



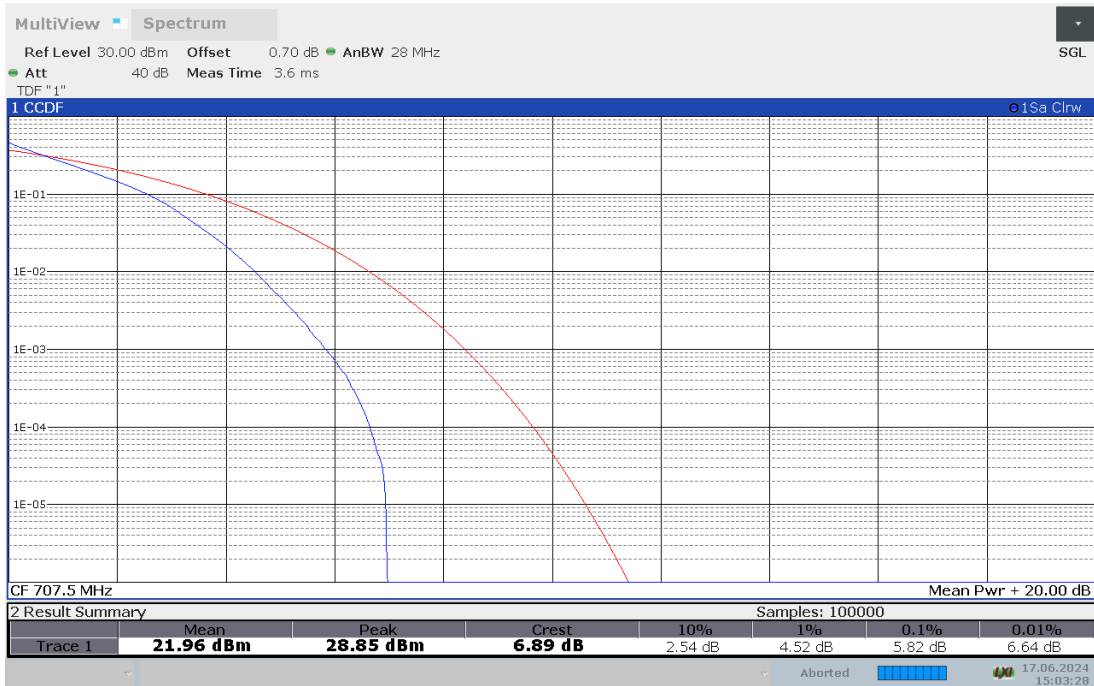
LTE band 12 , 1.4MHz Bandwidth,16QAM



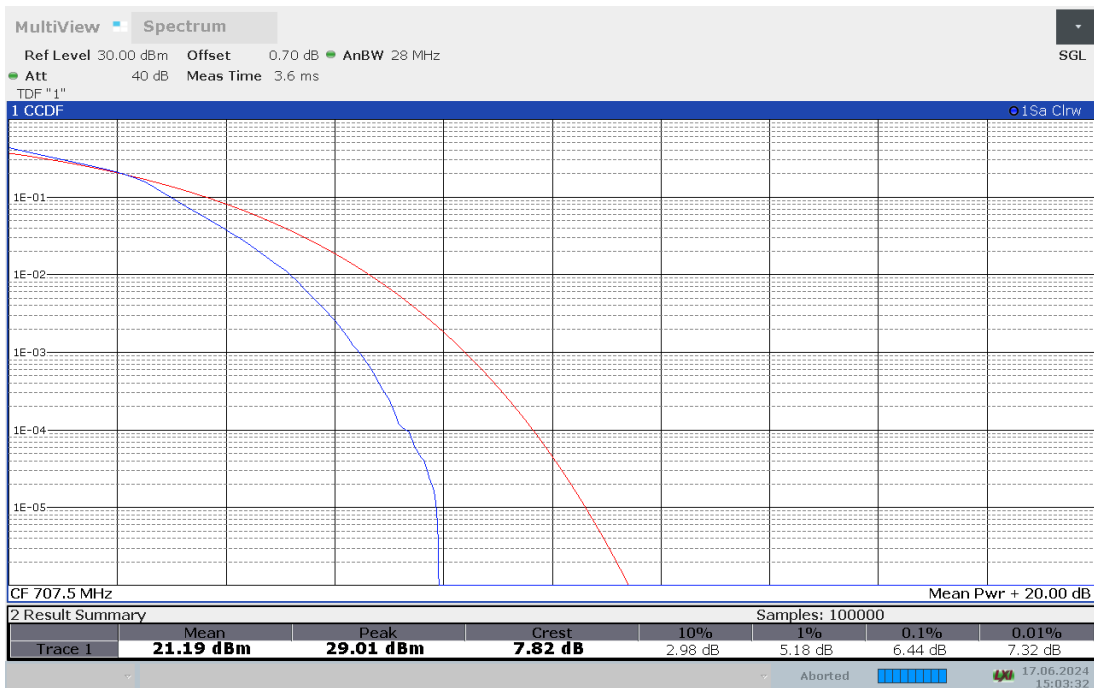
LTE Band 12, 3MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
707.5	100%,0	5.82	6.44

LTE band 12 , 3MHz Bandwidth,QPSK



LTE band 12 , 3MHz Bandwidth,16QAM

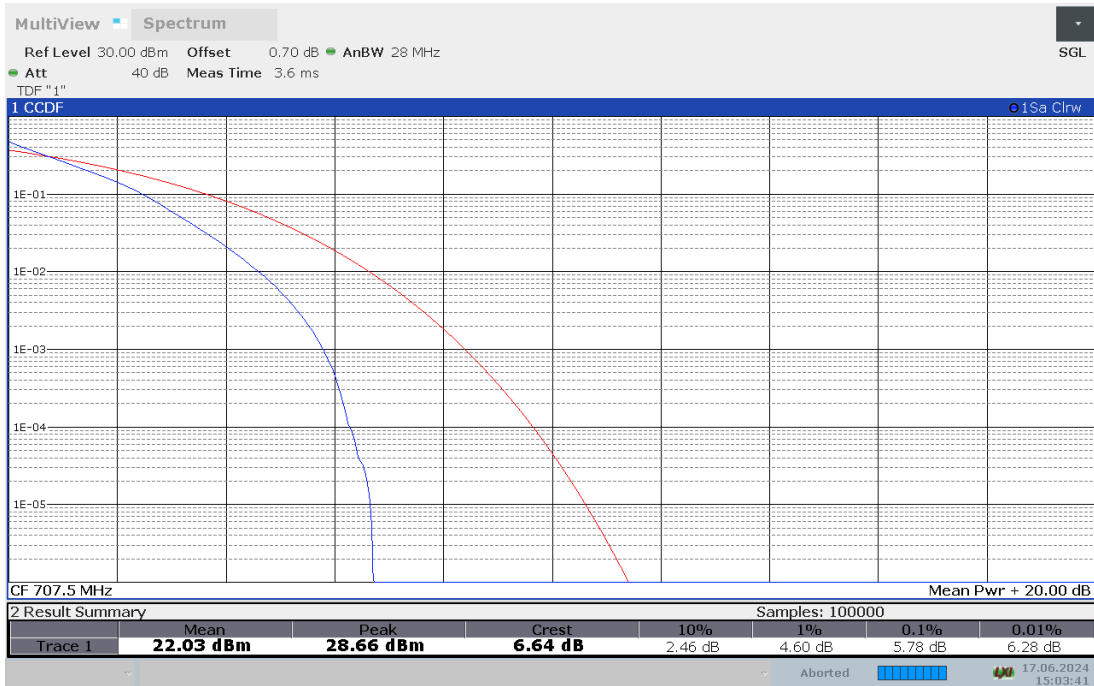




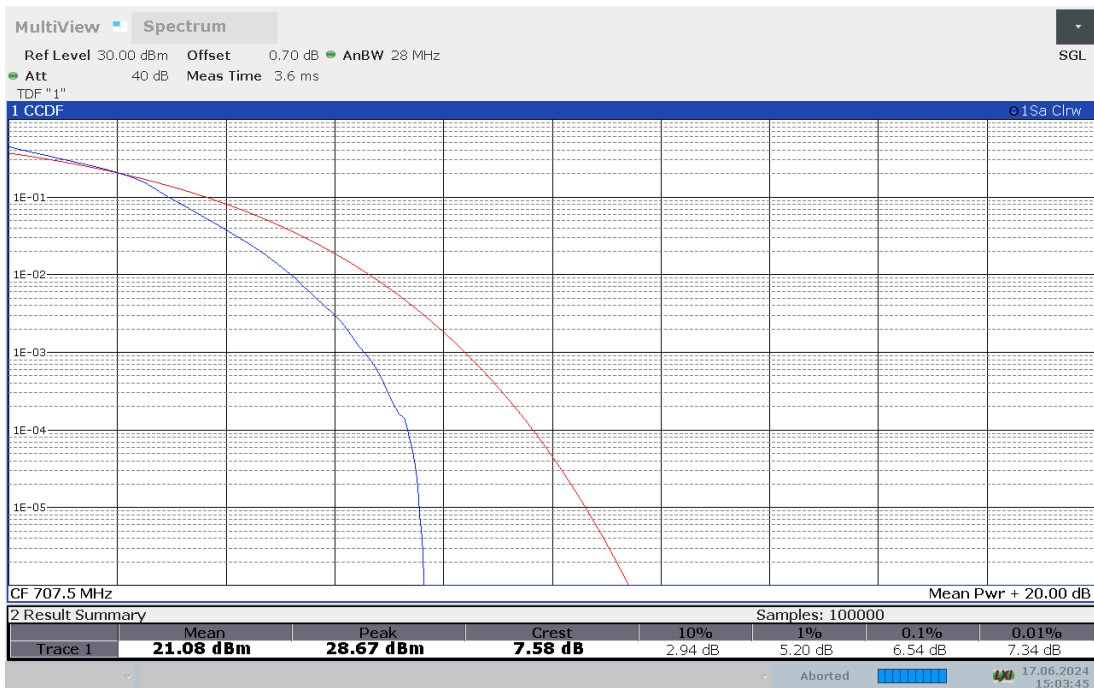
LTE Band 12, 5MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
707.5	100%,0	5.78	6.54

LTE band 12 , 5MHz Bandwidth,QPSK



LTE band 12 , 5MHz Bandwidth,16QAM

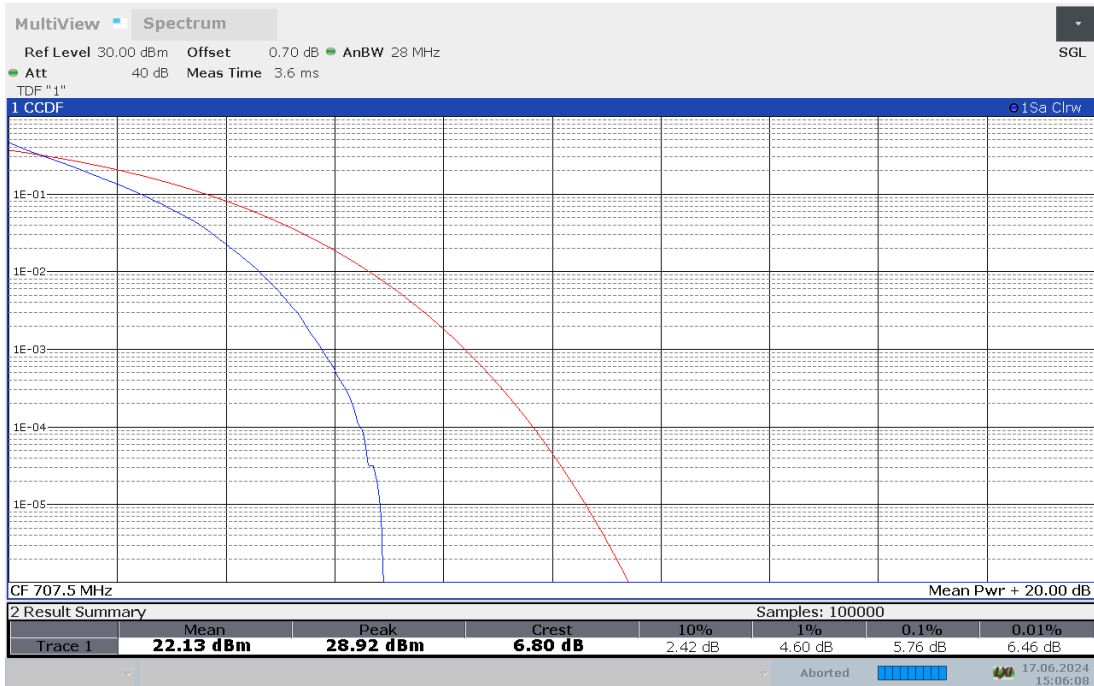




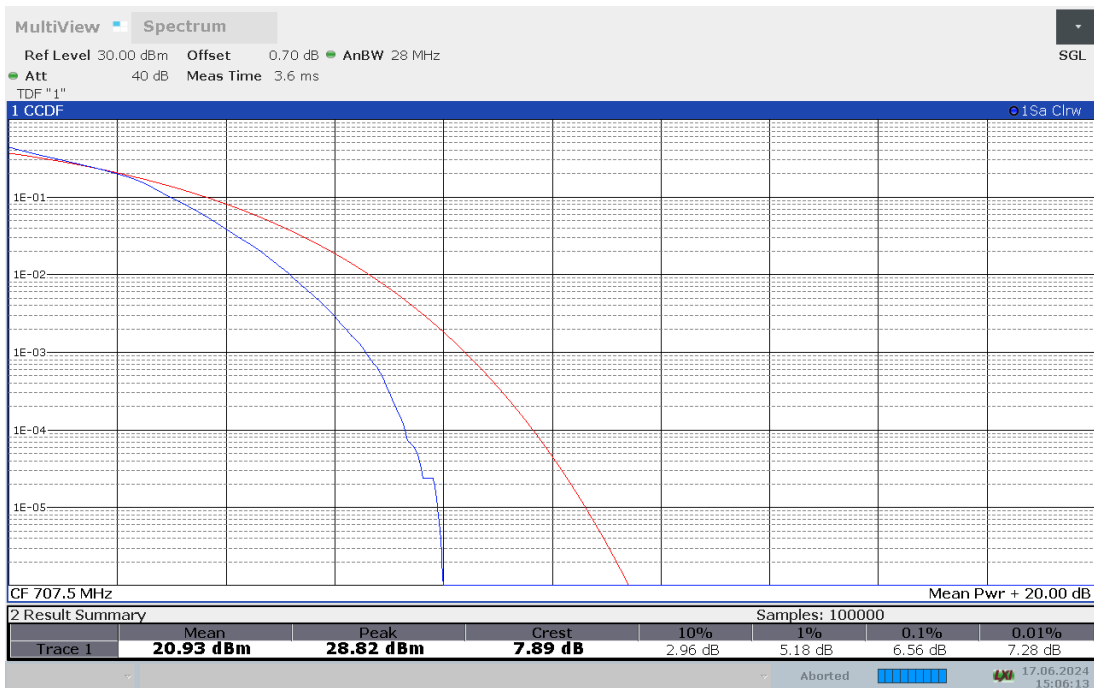
LTE Band 12, 10MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
707.5	100%,0	5.76	6.56

LTE band 12 , 10MHz Bandwidth,QPSK



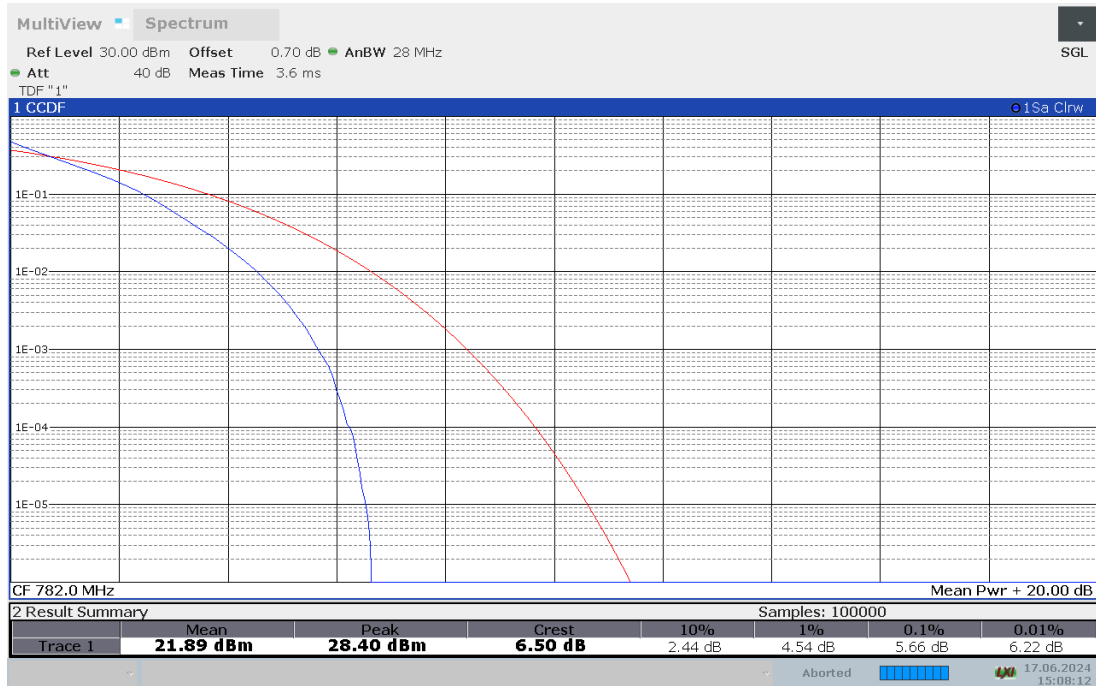
LTE band 12 , 10MHz Bandwidth,16QAM



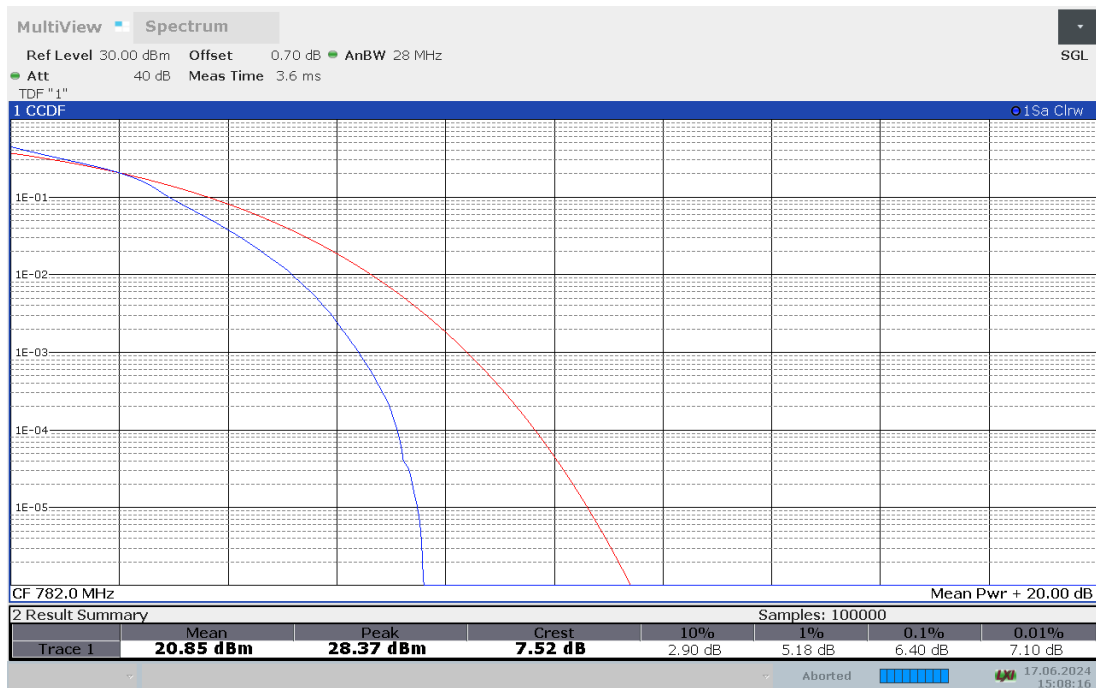
**LTE Band 13, 5MHz**

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
782	100%,0	5.66	6.40

**LTE band 13 , 5MHz Bandwidth,QPSK**



**LTE band 13 , 5MHz Bandwidth,16QAM**

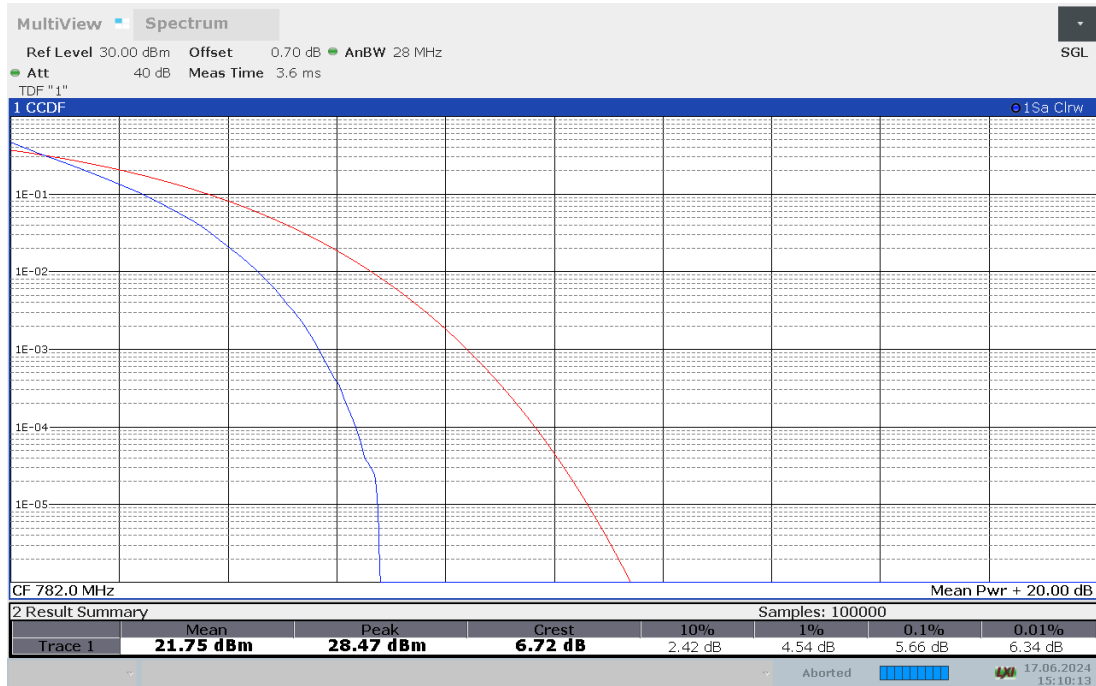




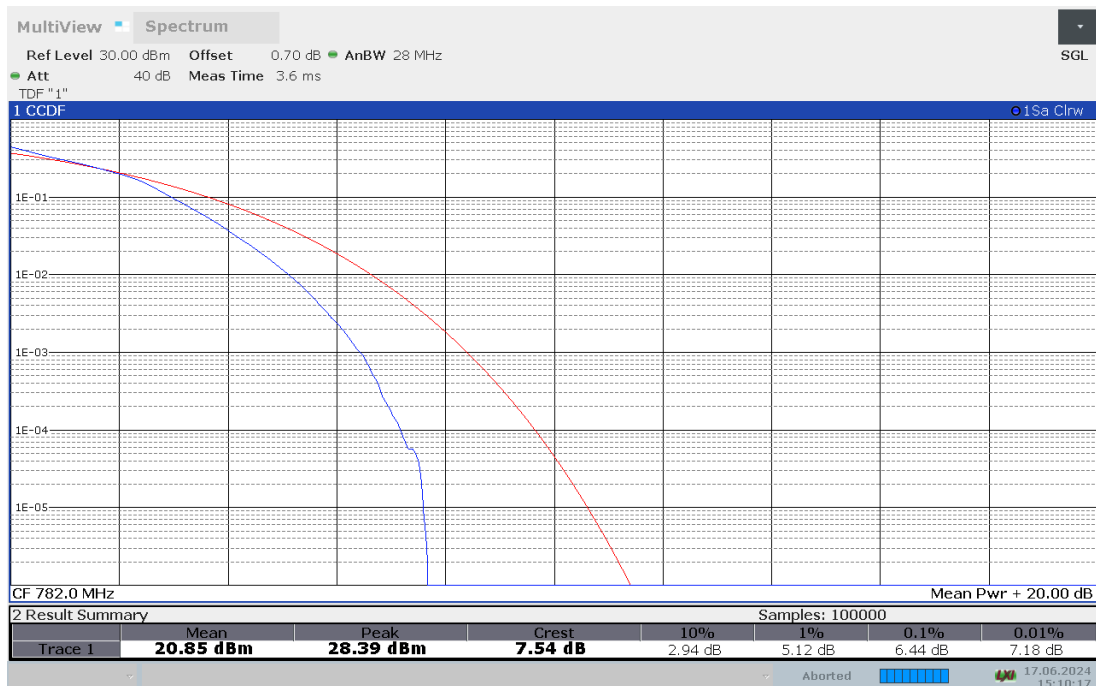
LTE Band 13, 10MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
782	100%,0	5.66	6.44

LTE band 13 , 10MHz Bandwidth,QPSK



LTE band 13 , 10MHz Bandwidth,16QAM

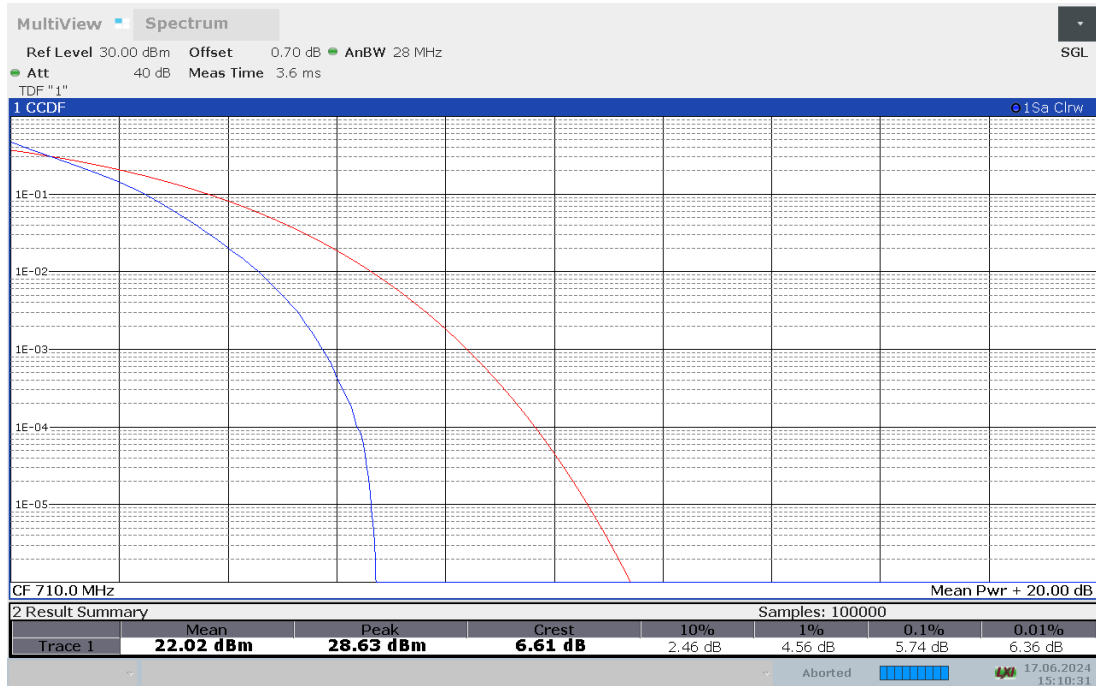




LTE Band 17, 5MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
710	100%,0	5.74	6.36

LTE band 17 , 5MHz Bandwidth,QPSK



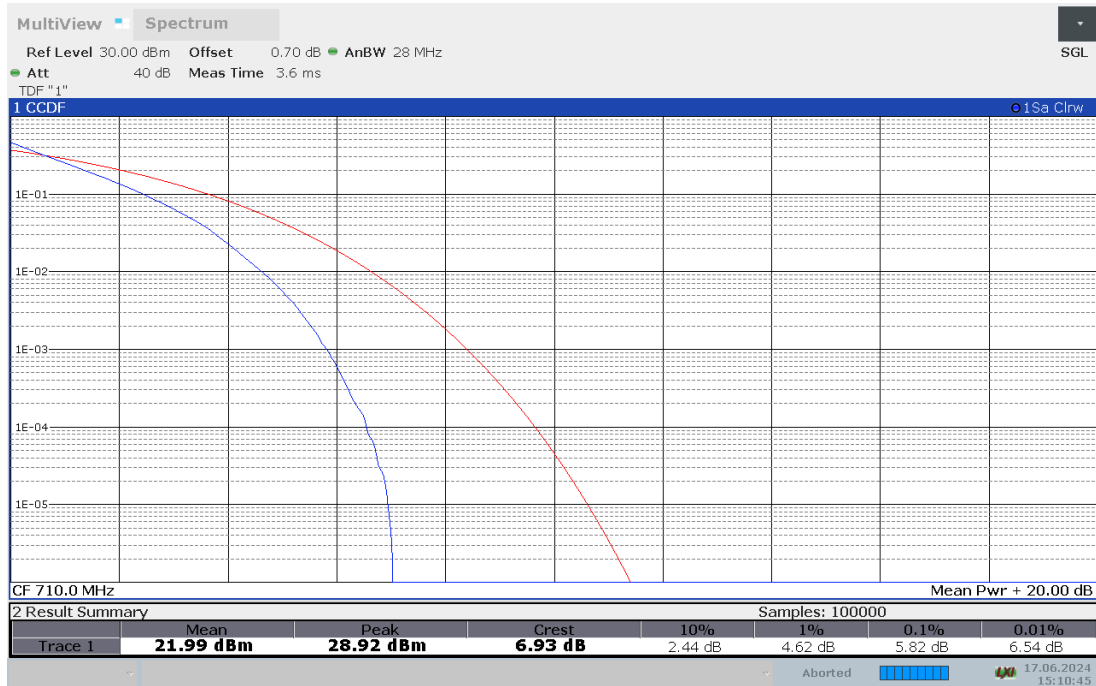
LTE band 17 , 5MHz Bandwidth,16QAM



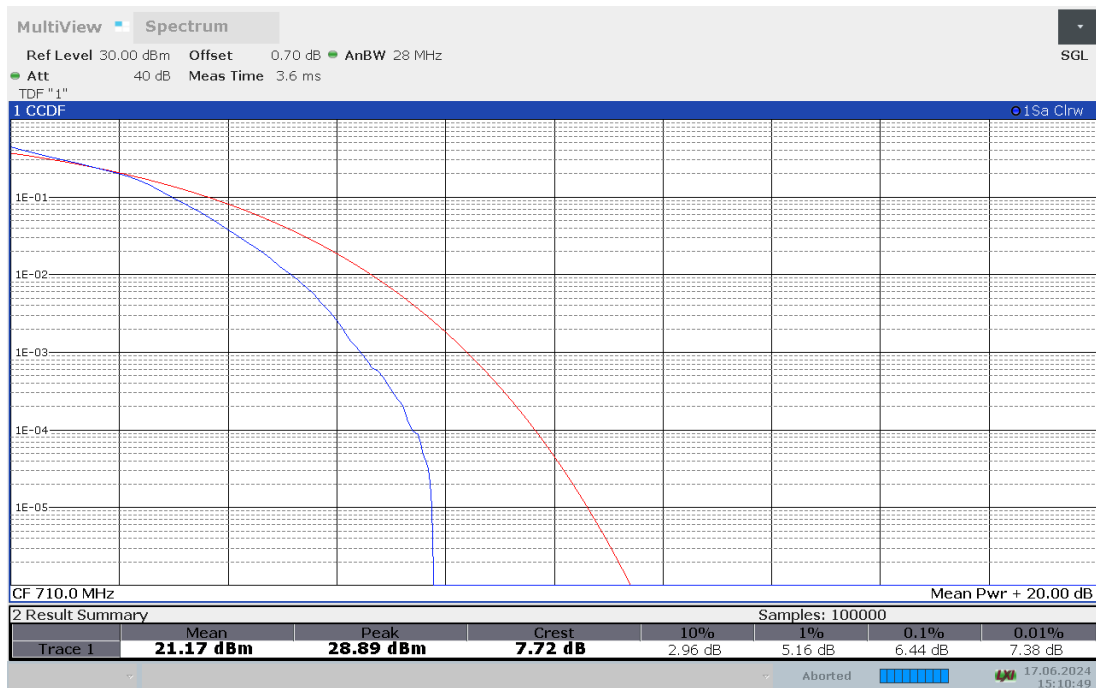
**LTE Band 17, 10MHz**

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
710	100%,0	5.82	6.44

**LTE band 17 , 10MHz Bandwidth,QPSK**



**LTE band 17 , 10MHz Bandwidth,16QAM**



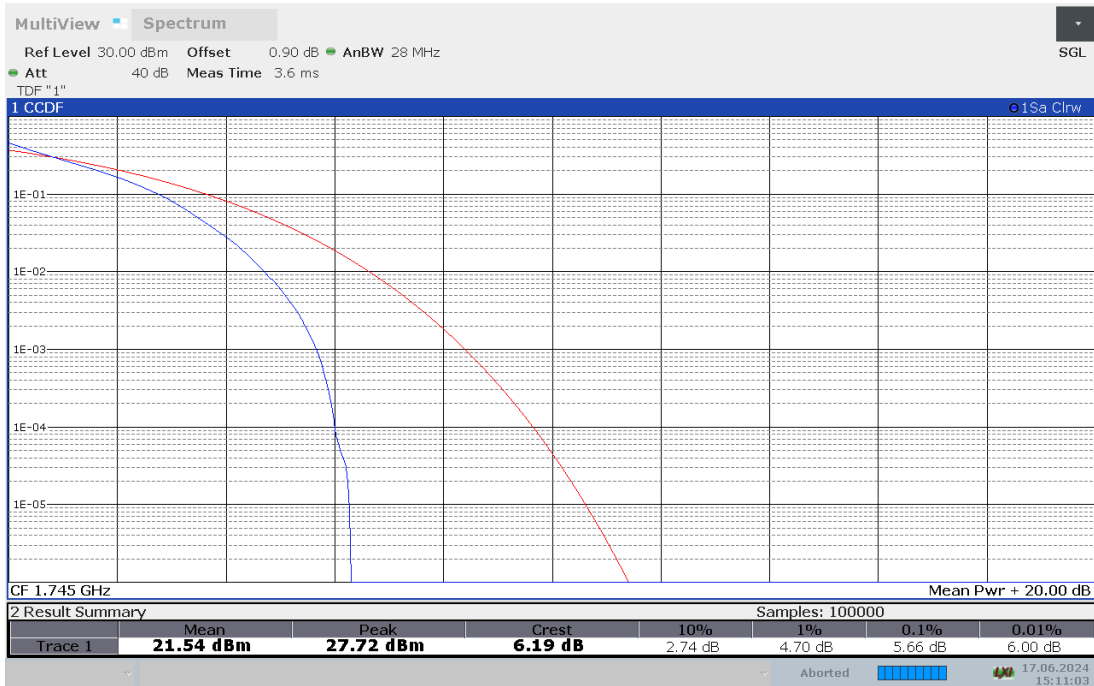




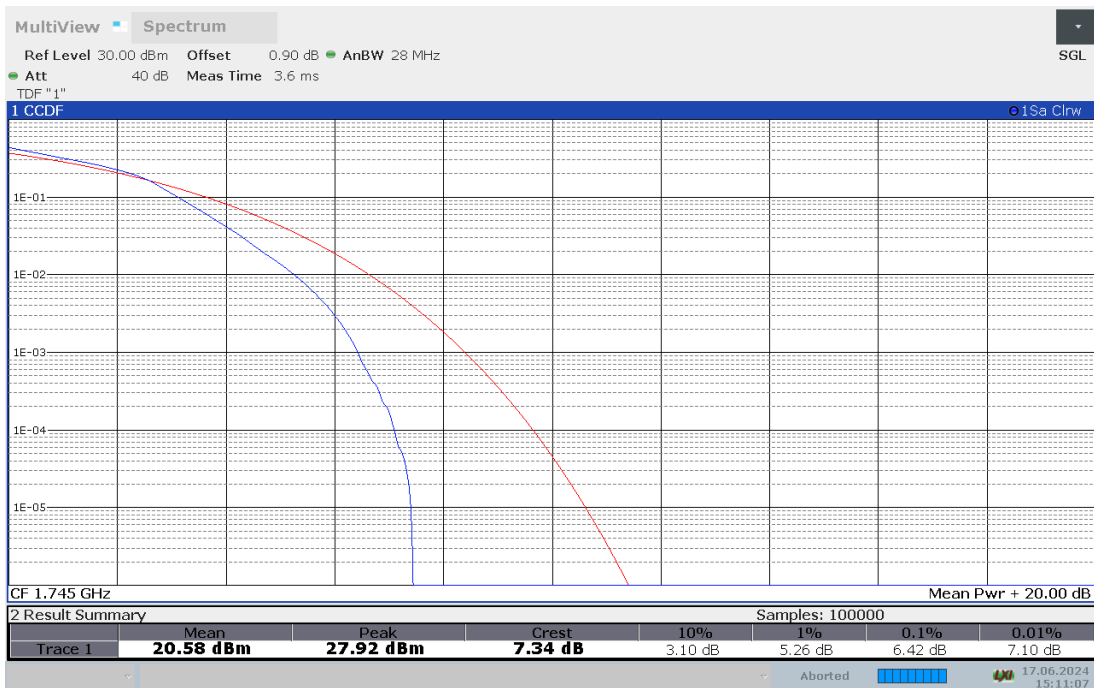
LTE Band 66, BW1.4MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1745	100%,0	5.66	6.42

LTE band 66 , 1.4MHz Bandwidth,QPSK



LTE band 66 , 1.4MHz Bandwidth,16QAM

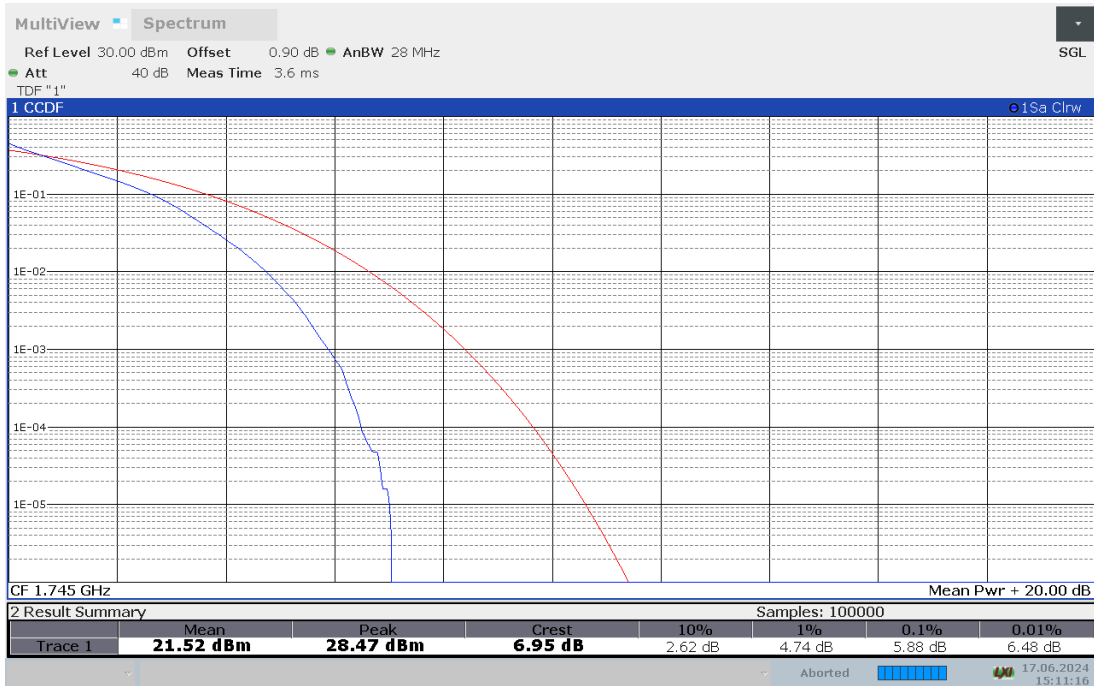




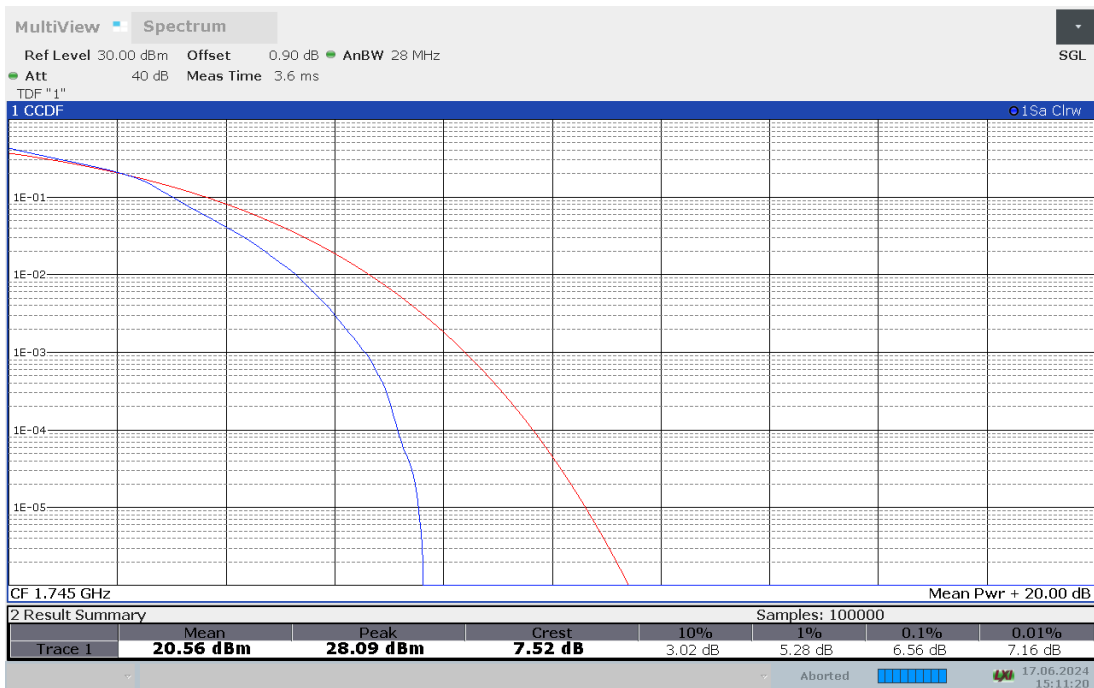
LTE Band 66, 3MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1745	100%,0	5.88	6.56

LTE band 66 , 3MHz Bandwidth,QPSK



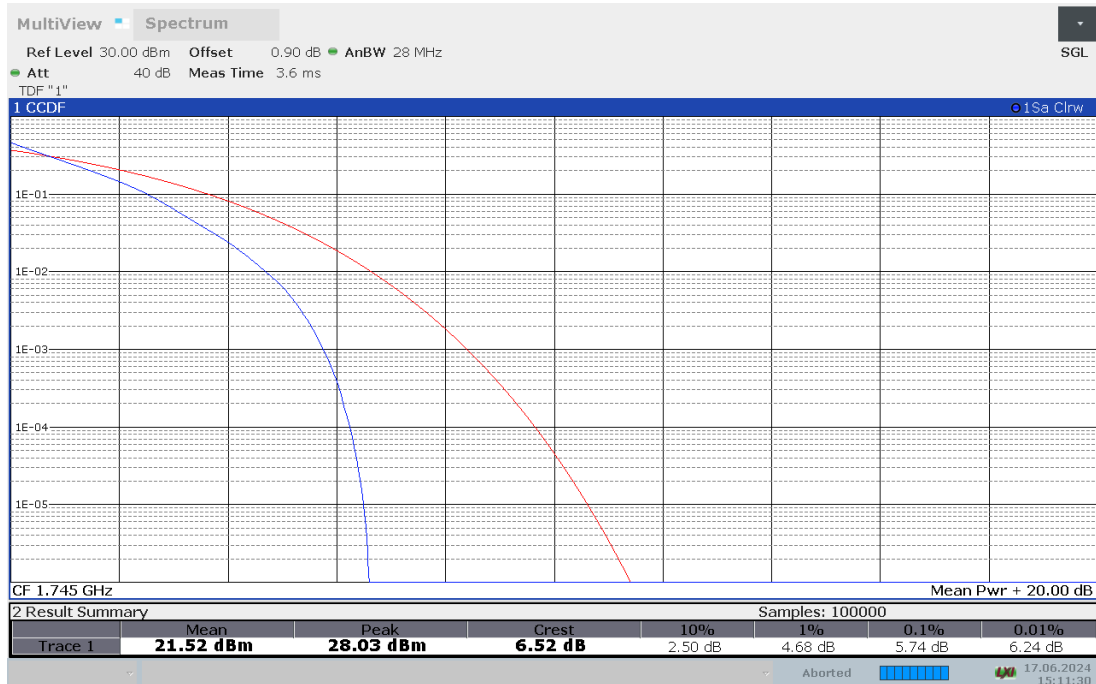
LTE band 66 , 3MHz Bandwidth,16QAM



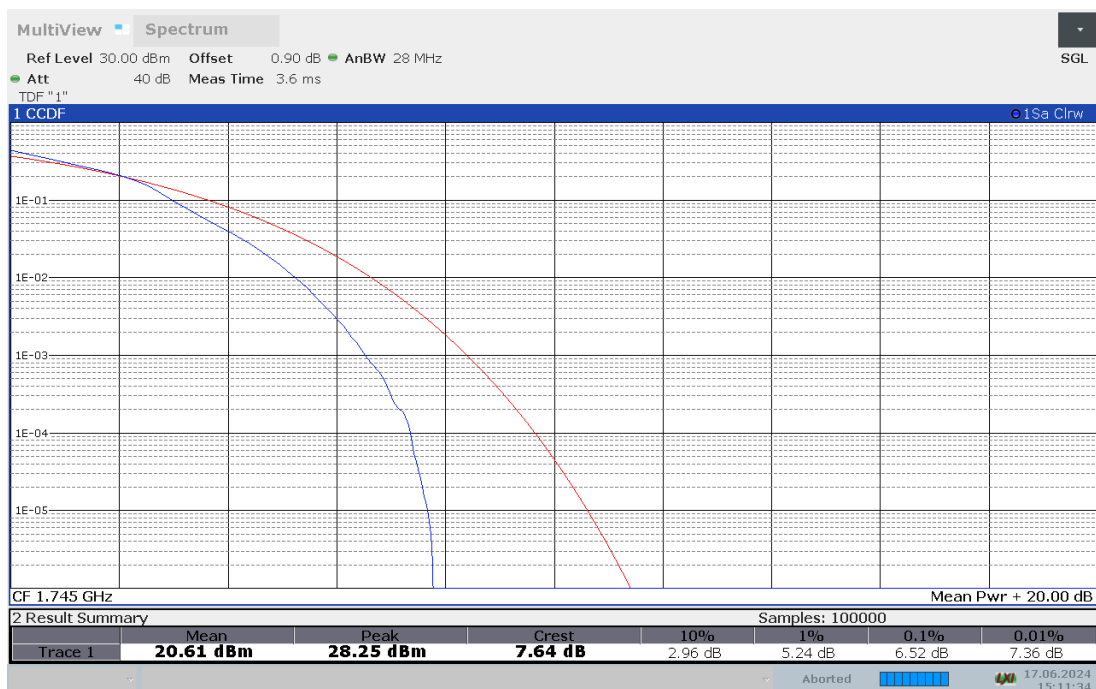
LTE Band 66, 5MHz

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1745	100%,0	5.74	6.52

LTE band 66 , 5MHz Bandwidth,QPSK



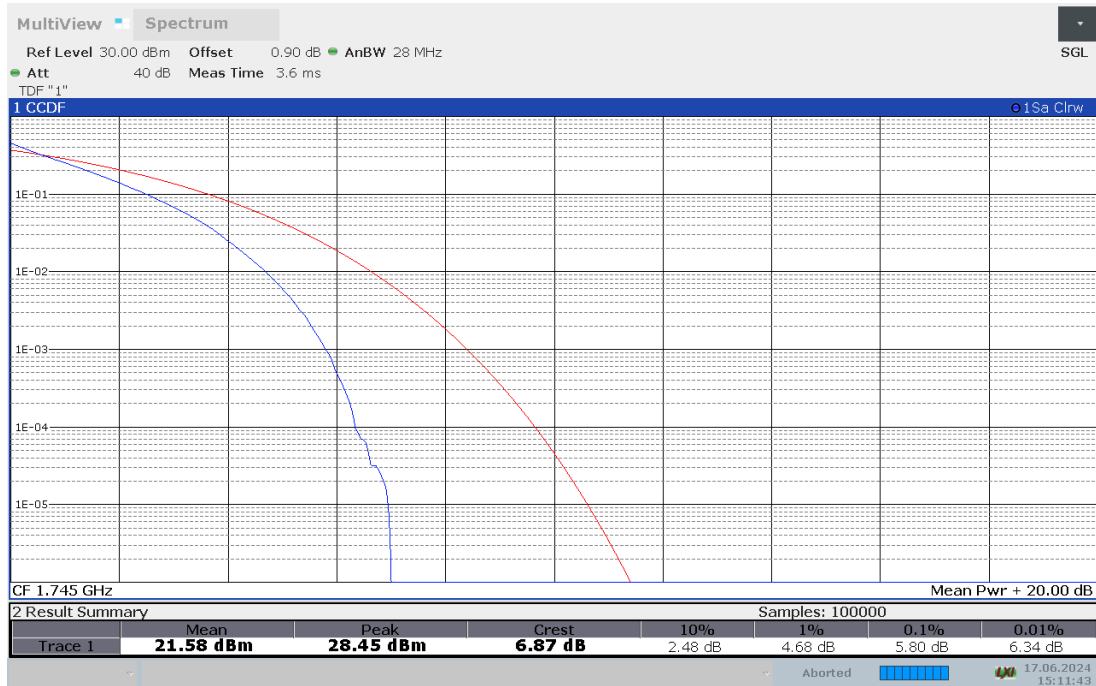
LTE band 66 , 5MHz Bandwidth,16QAM



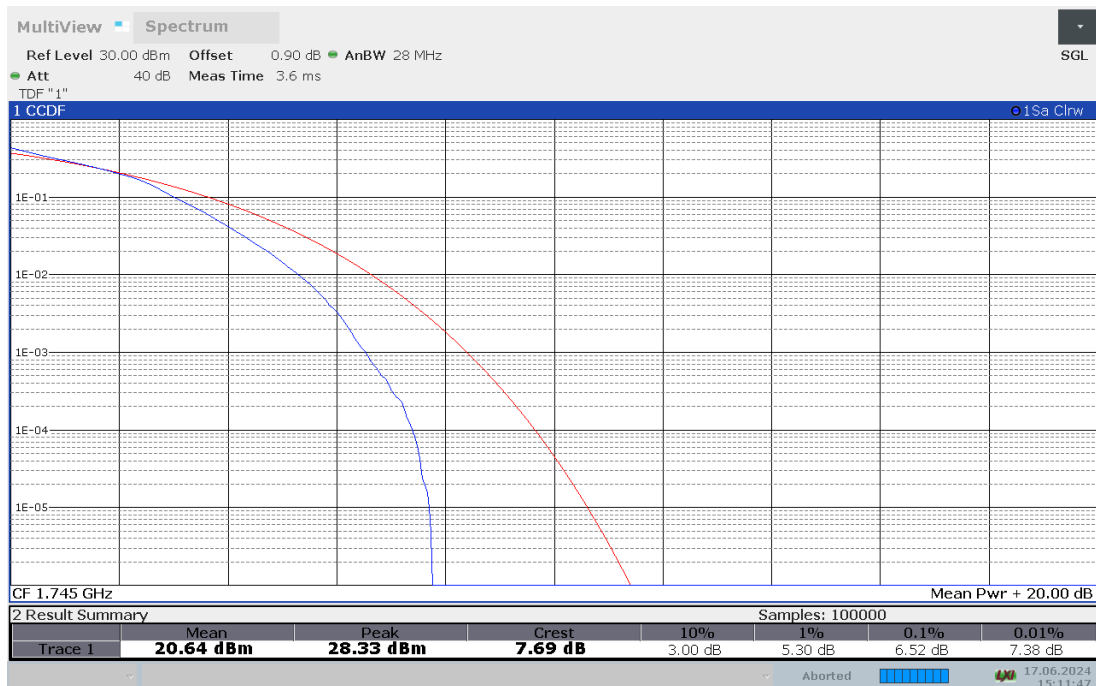
**LTE Band 66, 10MHz**

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1745	100%,0	5.80	6.52

**LTE band 66 , 10MHz Bandwidth,QPSK**



**LTE band 66 , 10MHz Bandwidth,16QAM**



**LTE Band 66, 15MHz**

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1745	100%,0	6.06	6.60

**LTE band 66 , 15MHz Bandwidth,QPSK**



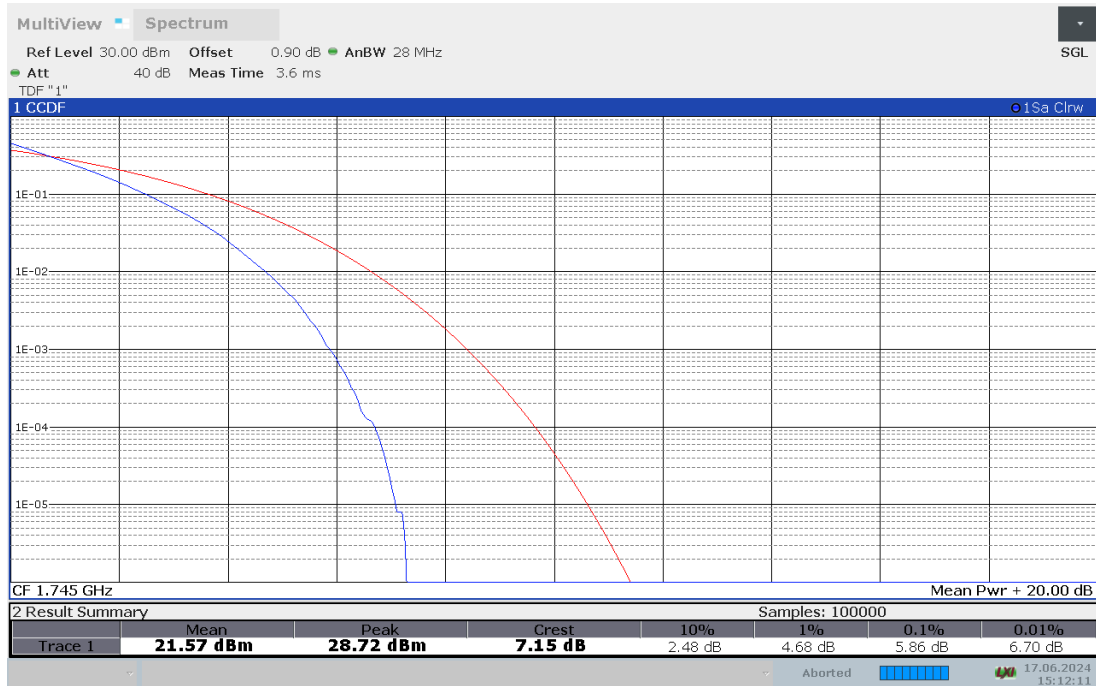
**LTE band 66 , 15MHz Bandwidth,16QAM**



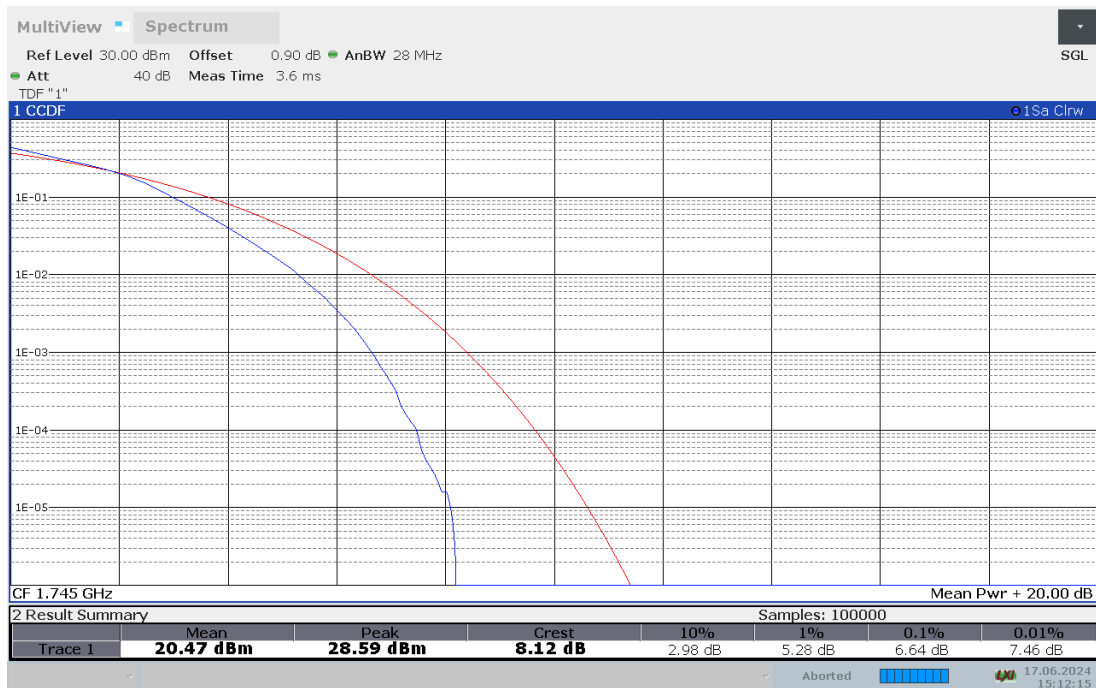
**LTE Band 66, 20MHz**

Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1745	100%,0	5.86	6.64

**LTE band 66 , 20MHz Bandwidth,QPSK**



**LTE band 66 , 20MHz Bandwidth,16QAM**



Note: Expanded measurement uncertainty is  $U = 0.48$ ,  $k = 2$

## ANNEX B: Accreditation Certificate



**Accredited Laboratory**

A2LA has accredited

**SHENZHEN ACADEMY OF INFORMATION AND COMMUNICATIONS TECHNOLOGY**  
*Shenzhen, 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 14<sup>th</sup> day of November 2023.



Mr. Trace McInturff, Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 4353.01  
Valid to November 30, 2025

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



## ANNEX C: Certificate of Brand Authorization



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