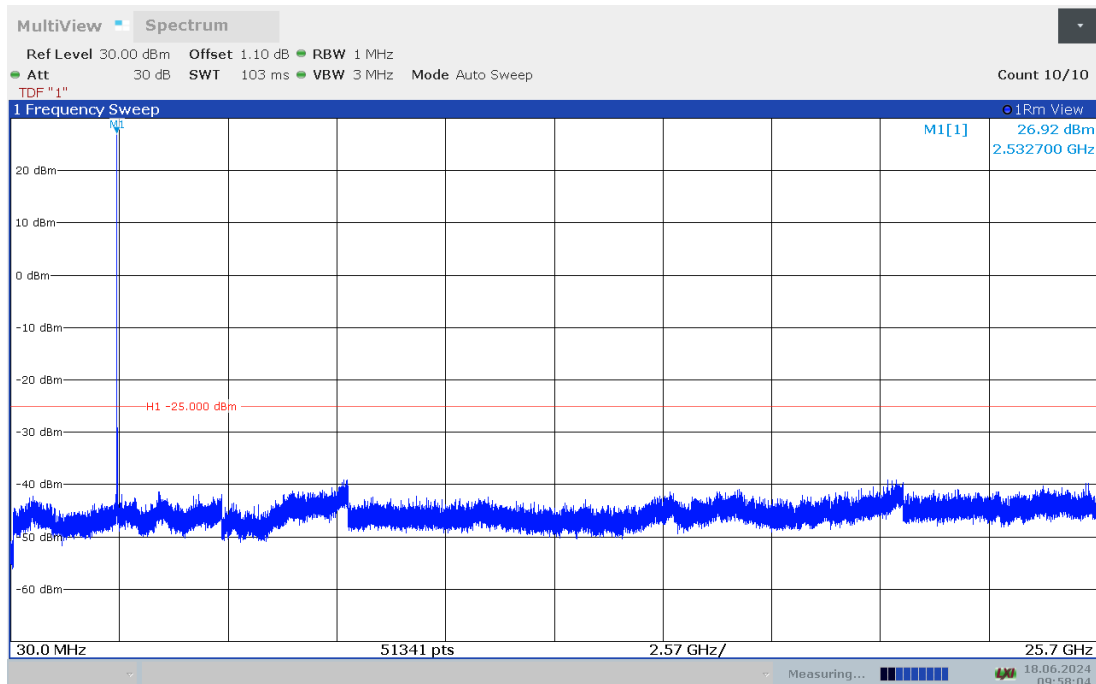


LTE band 7 20MHz QPSK: 30MHz – 25.7GHz

Spurious emission limit –25dBm.

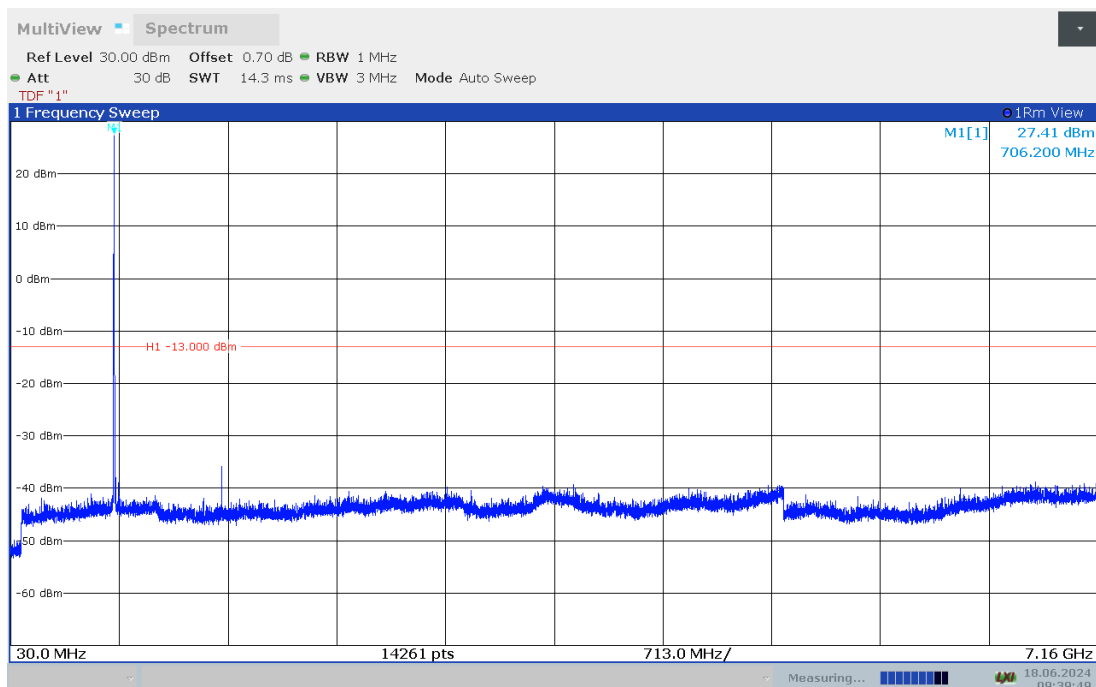
NOTE: peak above the limit line is the carrier frequency.



LTE band 12: 30MHz – 7.16GHz

Spurious emission limit –13dBm.

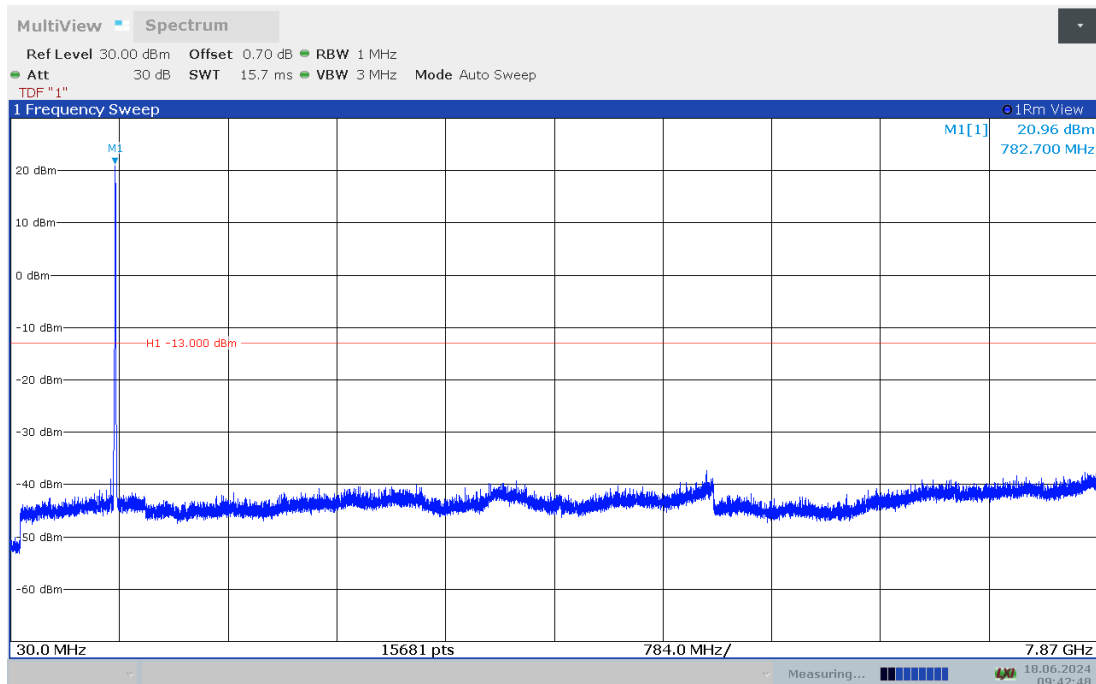
NOTE: peak above the limit line is the carrier frequency.



LTE band 13: 30MHz – 7.87GHz

Spurious emission limit –13dBm.

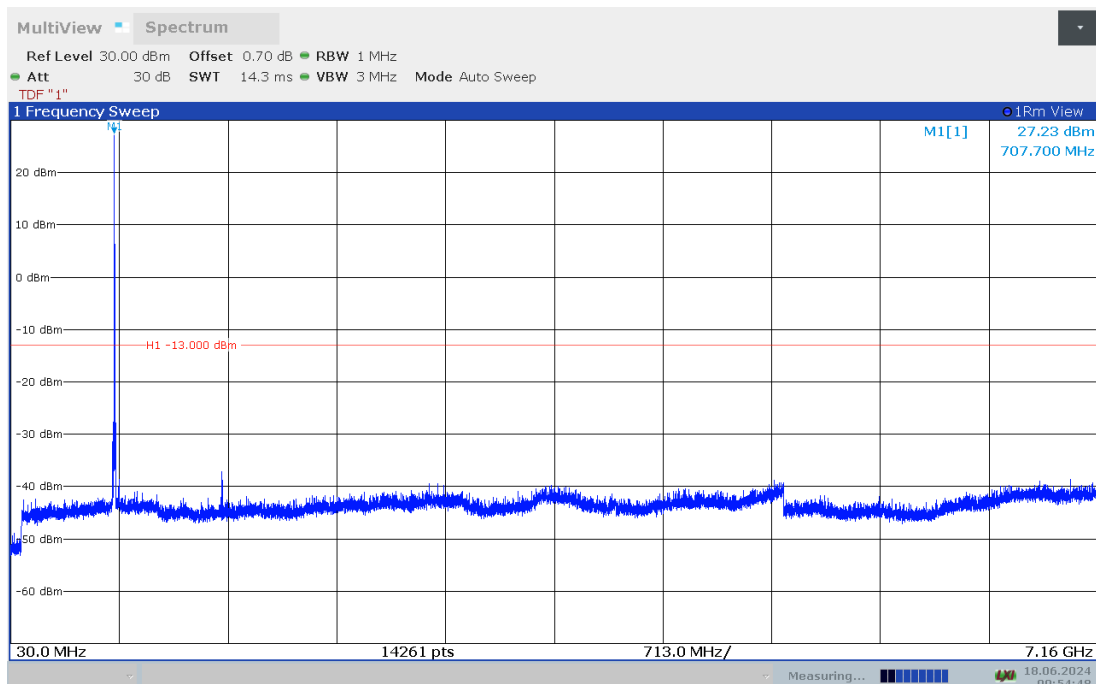
NOTE: peak above the limit line is the carrier frequency.



LTE band 17: 30MHz – 7.16GHz

Spurious emission limit –13dBm.

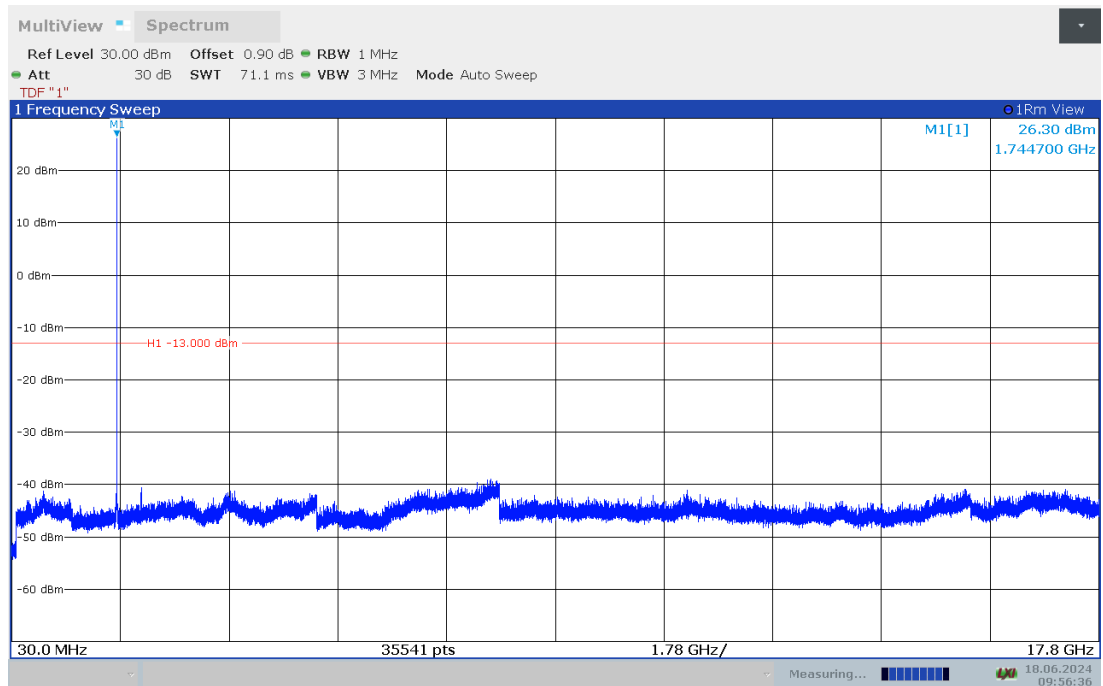
NOTE: peak above the limit line is the carrier frequency.



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

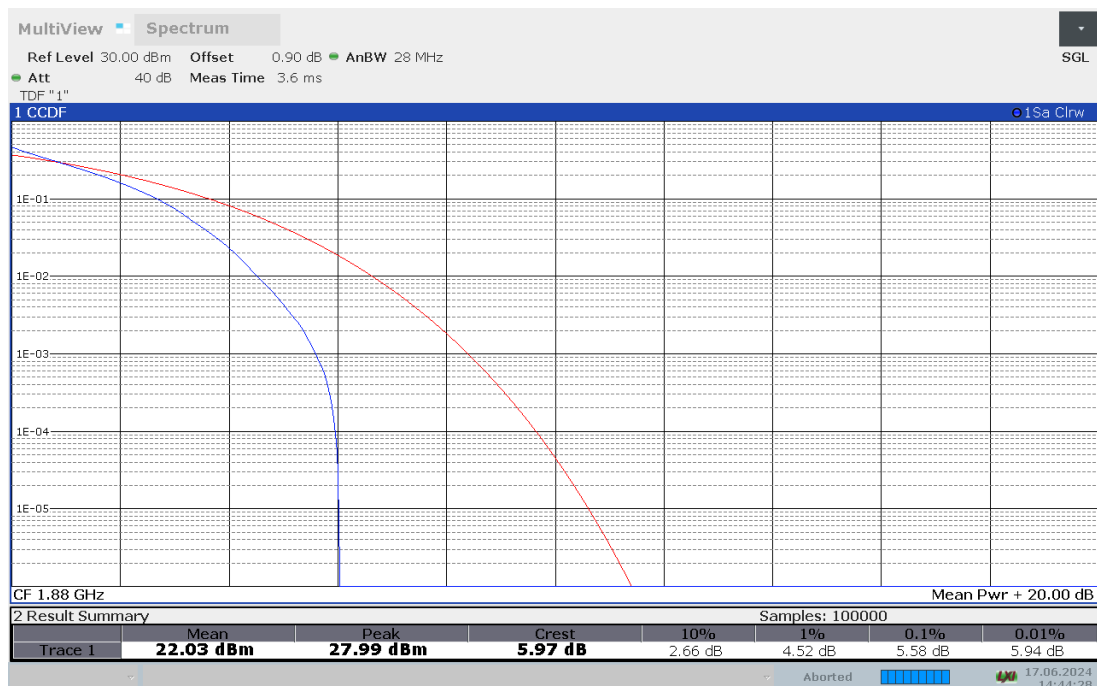
- Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- Record the maximum PAPR level associated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

Measurement results

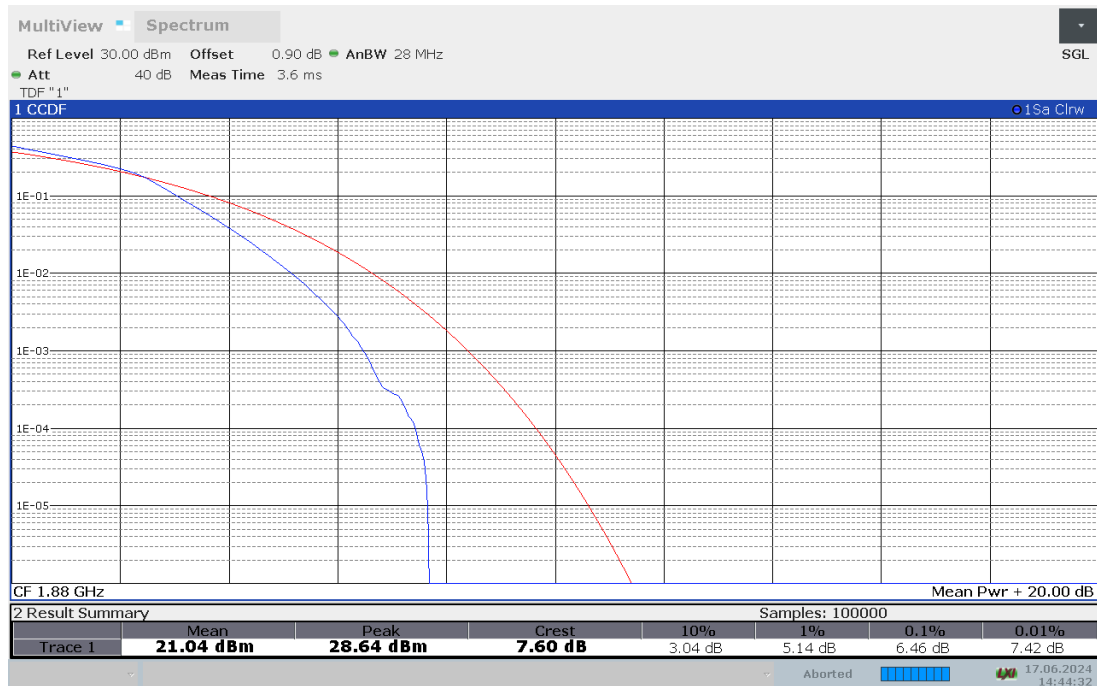
LTE Band 2, BW1.4MHz

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

LTE band 2 , 1.4MHz Bandwidth,QPSK



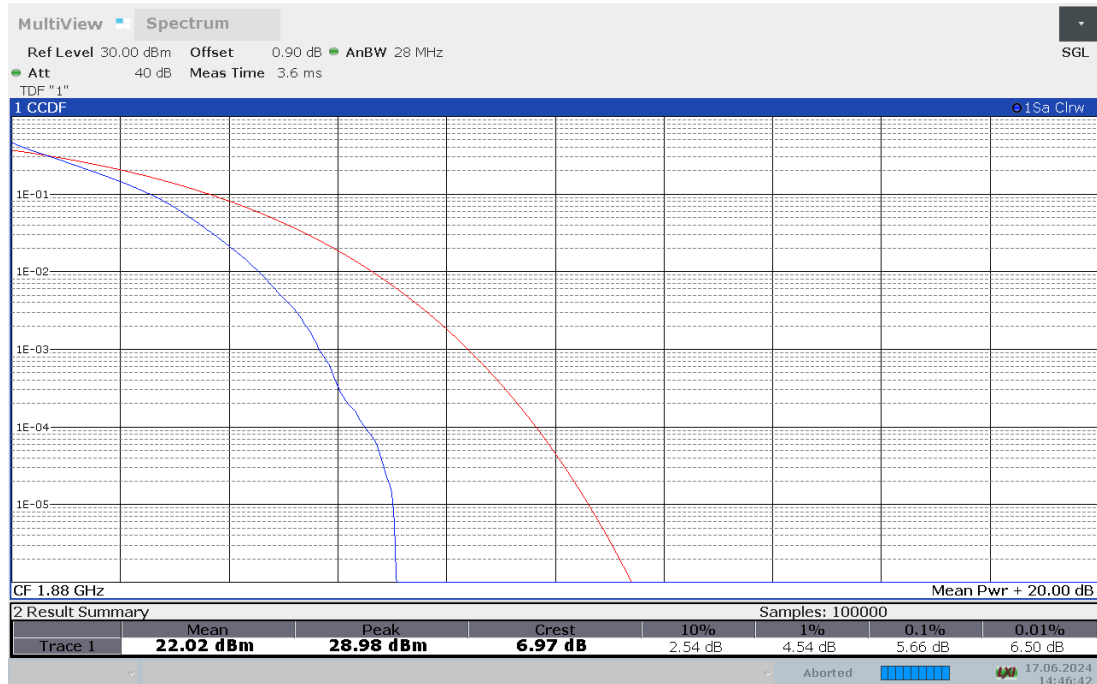
LTE band 2 , 1.4MHz Bandwidth,16QAM



LTE Band 2, 3MHz

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

LTE band 2 , 3MHz Bandwidth,QPSK



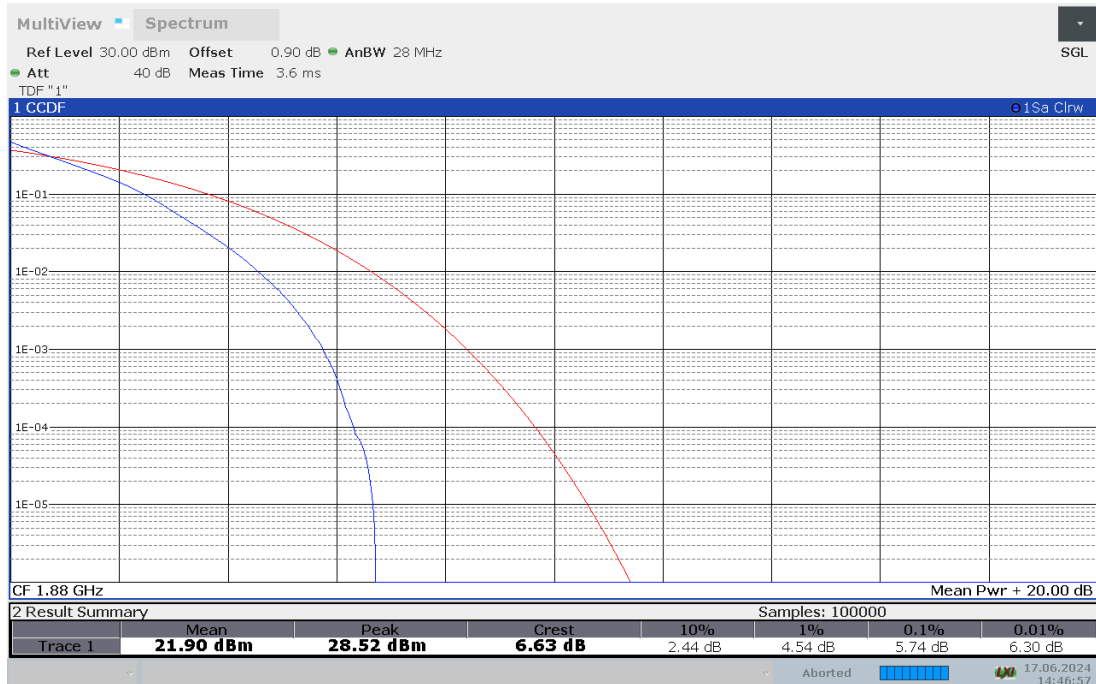
LTE band 2 , 3MHz Bandwidth,16QAM



LTE Band 2, 5MHz

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

LTE band 2 , 5MHz Bandwidth,QPSK



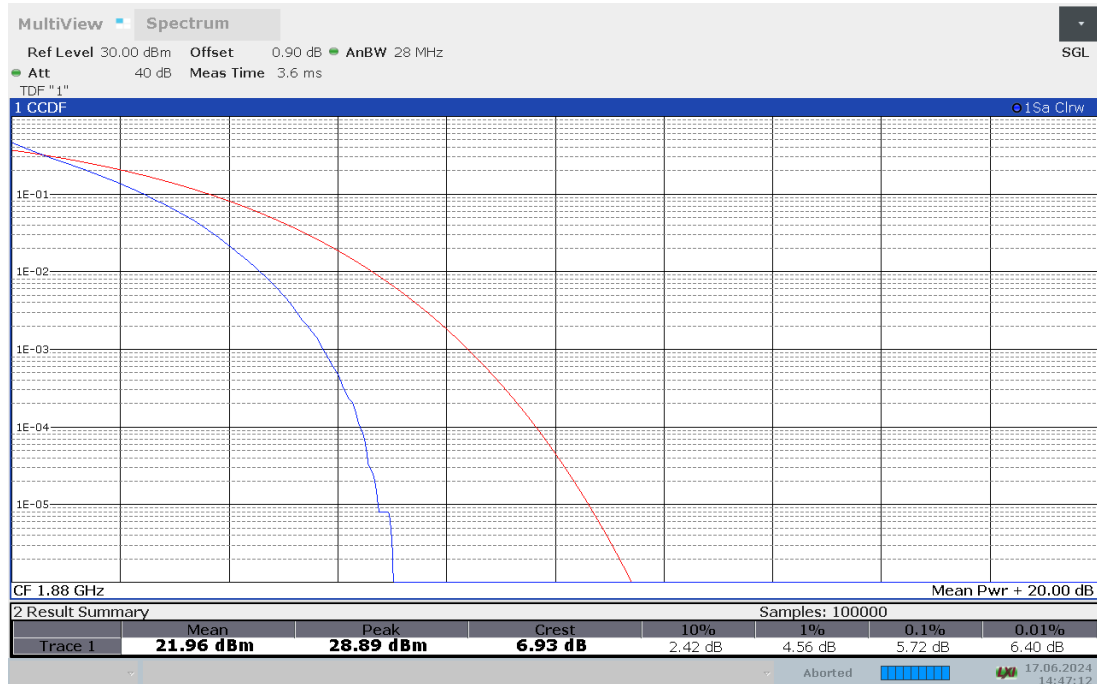
LTE band 2 , 5MHz Bandwidth,16QAM



LTE Band 2, 10MHz

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

LTE band 2 , 10MHz Bandwidth,QPSK



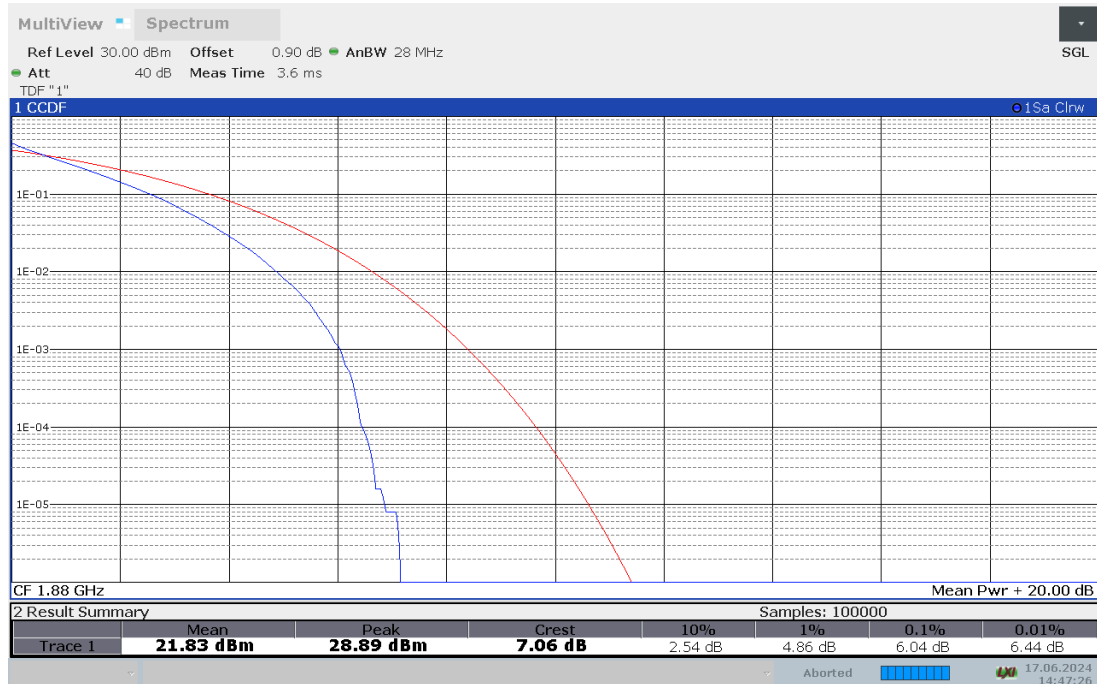
LTE band 2 , 10MHz Bandwidth,16QAM



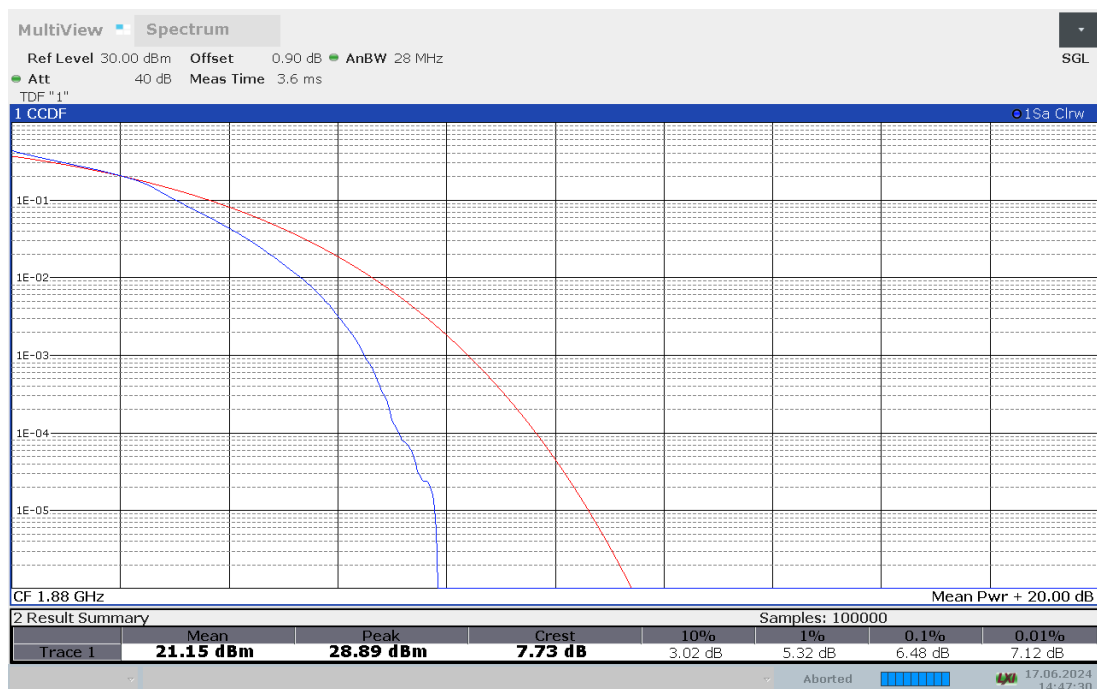
LTE Band 2, 15MHz

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

LTE band 2 , 15MHz Bandwidth,QPSK



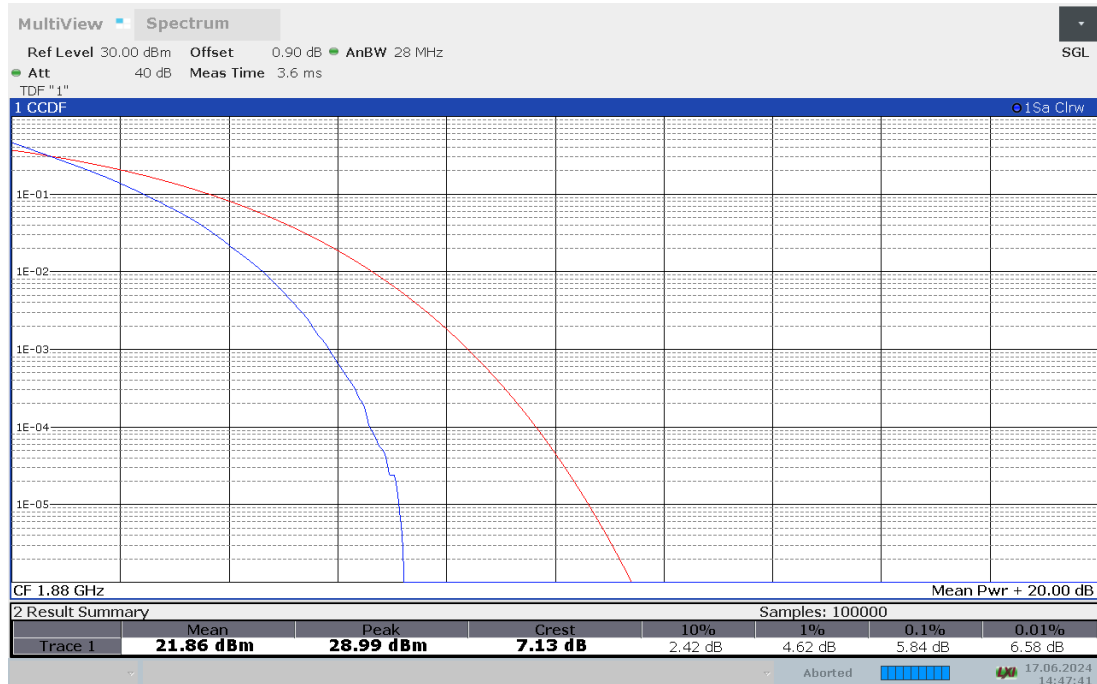
LTE band 2 , 15MHz Bandwidth,16QAM



LTE Band 2, 20MHz

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

LTE band 2 , 20MHz Bandwidth,QPSK



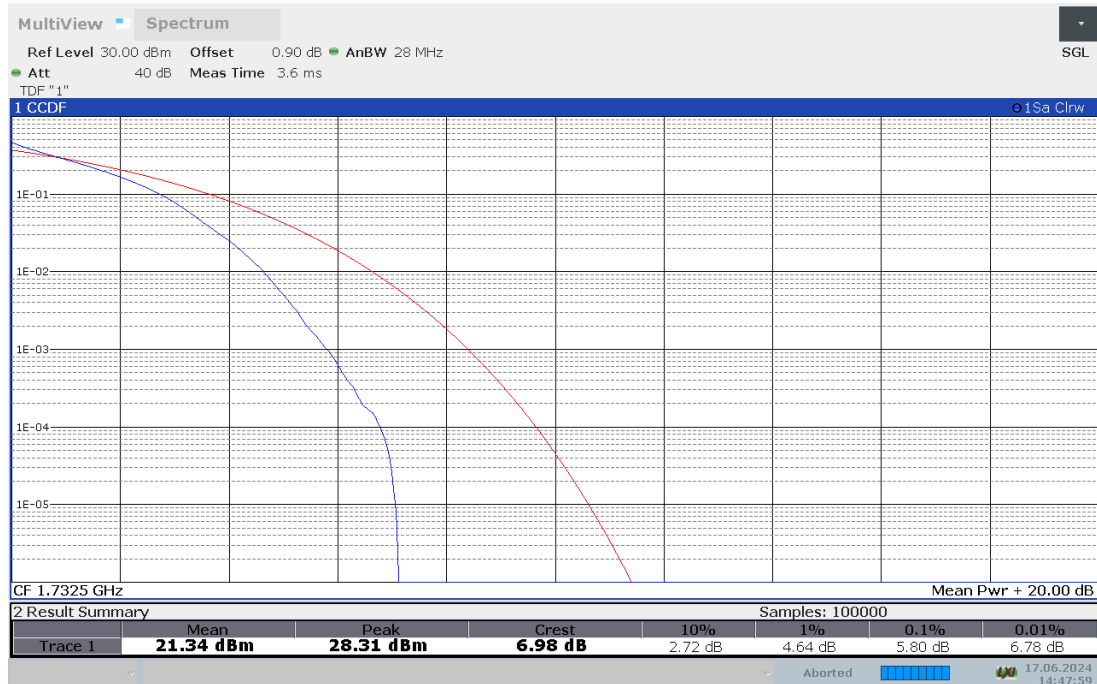
LTE band 2 , 20MHz Bandwidth,16QAM



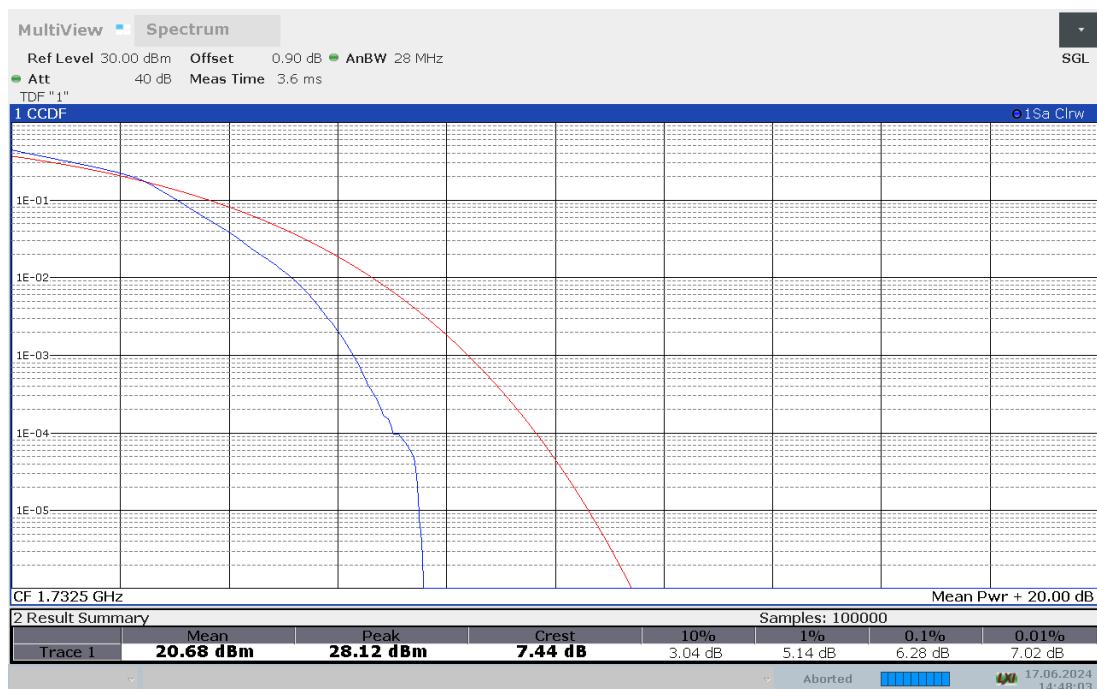
LTE Band 4, BW1.4MHz

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

LTE band 4 , 1.4MHz Bandwidth,QPSK



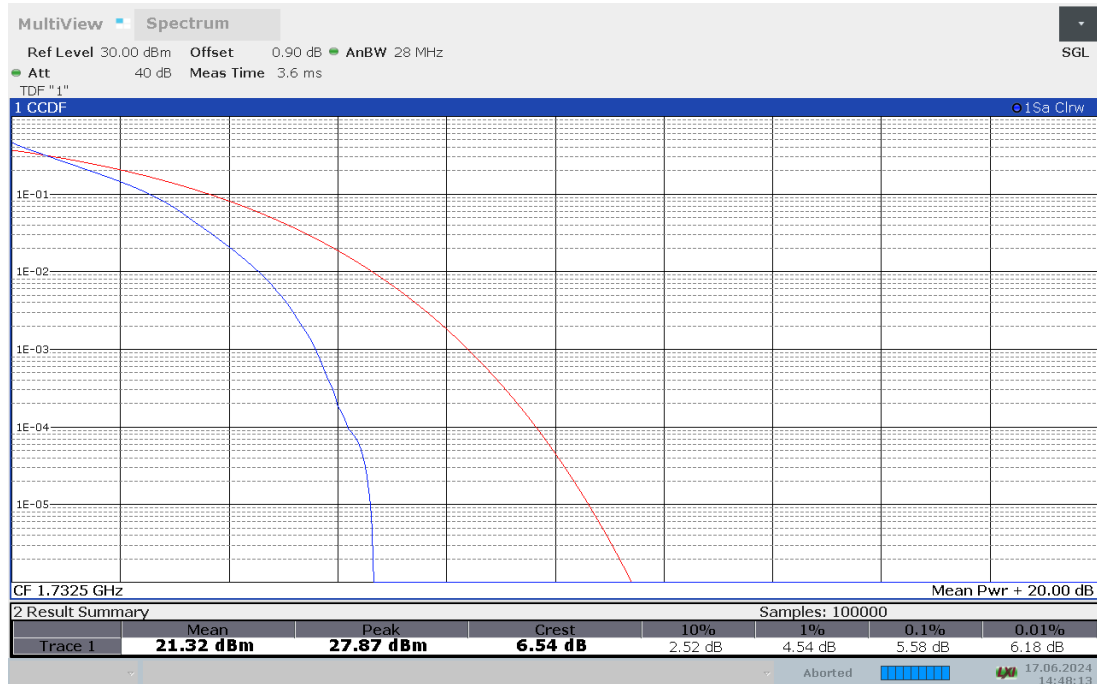
LTE band 4 , 1.4MHz Bandwidth,16QAM



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



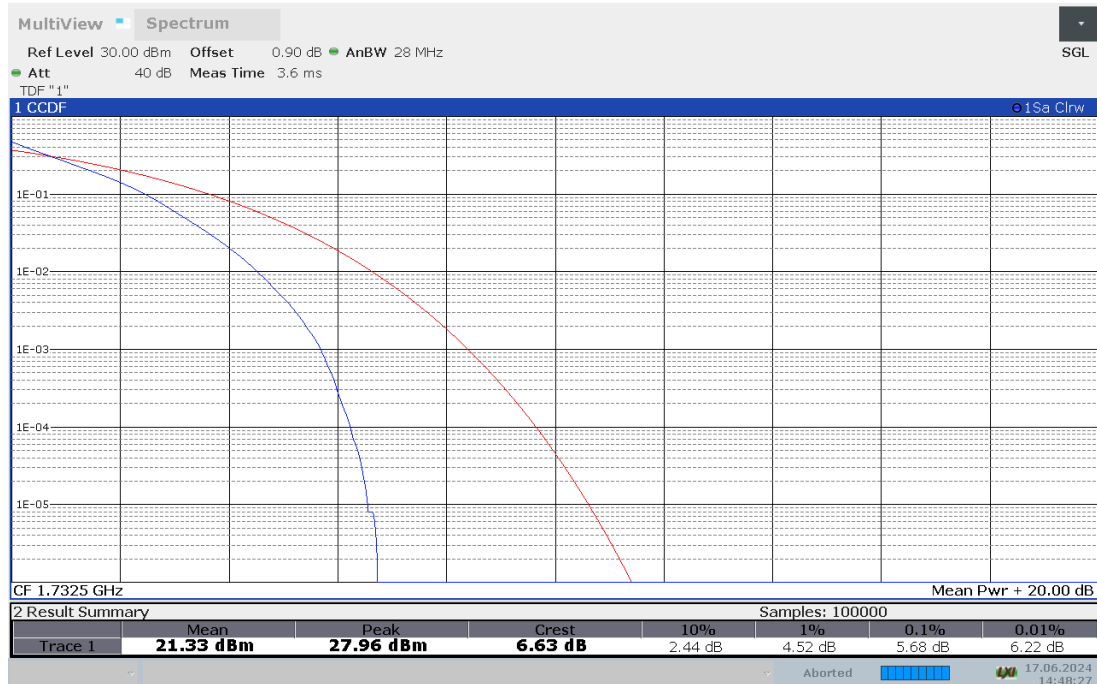
LTE band 4 , 3MHz Bandwidth,16QAM



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



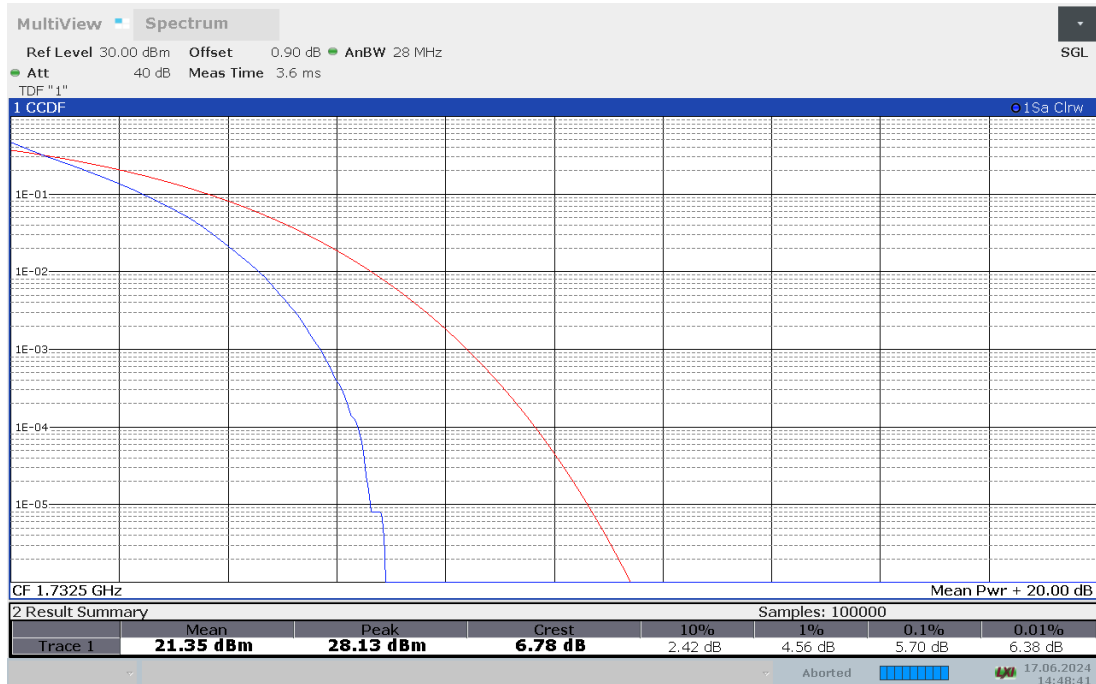
LTE band 4 , 5MHz Bandwidth,16QAM



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



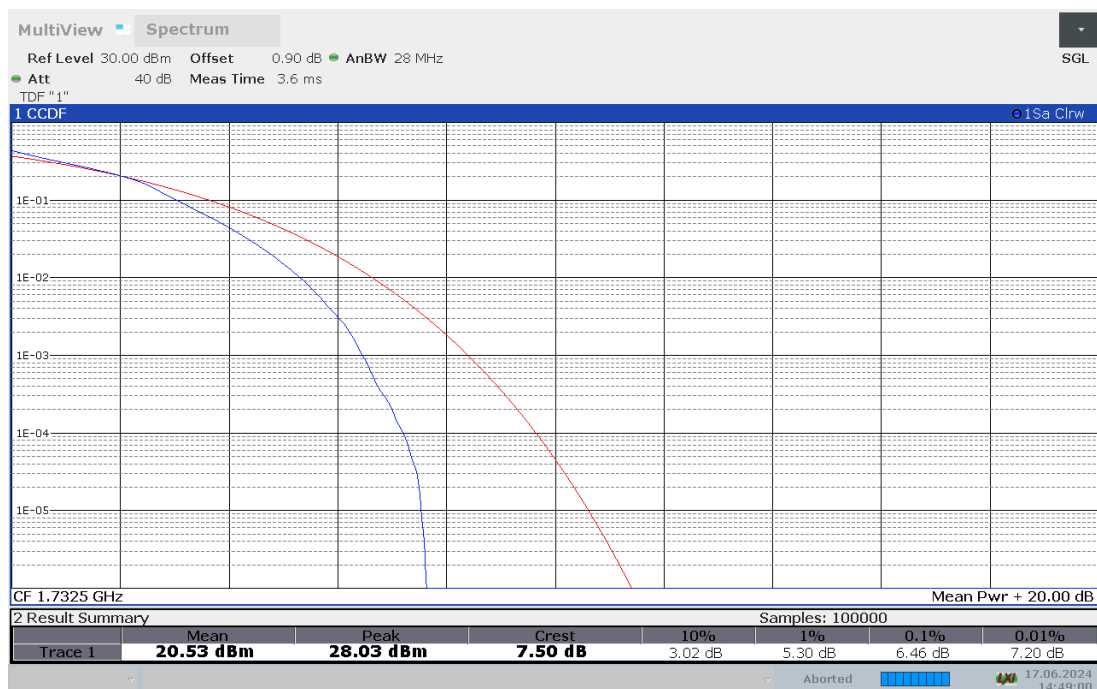
LTE Band 4, 15MHz

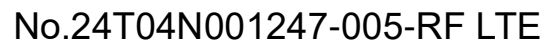
Frequency (MHz)	RB	PAPR (dB)	
		QPSK	16QAM
1732.5	100%,0	5.98	6.46

LTE band 4 , 15MHz Bandwidth,QPSK



LTE band 4 , 15MHz Bandwidth,16QAM





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

MultiView

Spectrum

Ref Level 30.00 dBm

Offset 0.90 dB

AnBW 28 MHz

Att 40 dB

Meas Time 3.6 ms

TDF "1"

SGL

1 CCDF

1Sa Clrw

CF 1.7325 GHz

Mean Pwr + 20.00 dB

2 Result Summary

Samples: 100000

	Mean	Peak	Crest	10%	1%	0.1%	0.01%
Trace 1	21.30 dBm	28.50 dBm	7.20 dB	2.44 dB	4.56 dB	5.74 dB	6.38 dB

Aborted

17.06.2024 14:30:11

MultiView | Spectrum

Ref Level 30.00 dBm Offset 0.90 dB AnBW 28 MHz
Att 40 dB Meas Time 3.6 ms

TDF "1"

1 CCDF

CF 1.7325 GHz Mean Pwr + 20.00 dB

2 Result Summary		Samples: 100000					
Trace 1	Mean	Peak	Crest	10%	1%	0.1%	0.01%
	20.39 dBm	28.41 dBm	8.02 dB	2.92 dB	5.16 dB	6.52 dB	7.24 dB

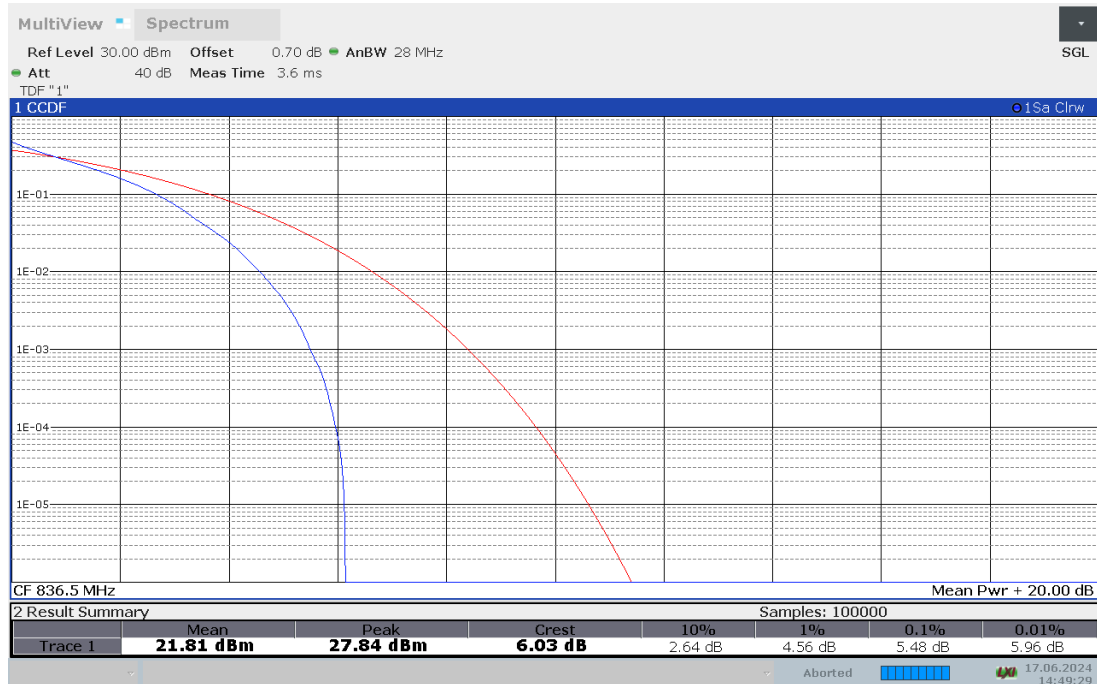
Aborted

17.06.2024 14:40:16

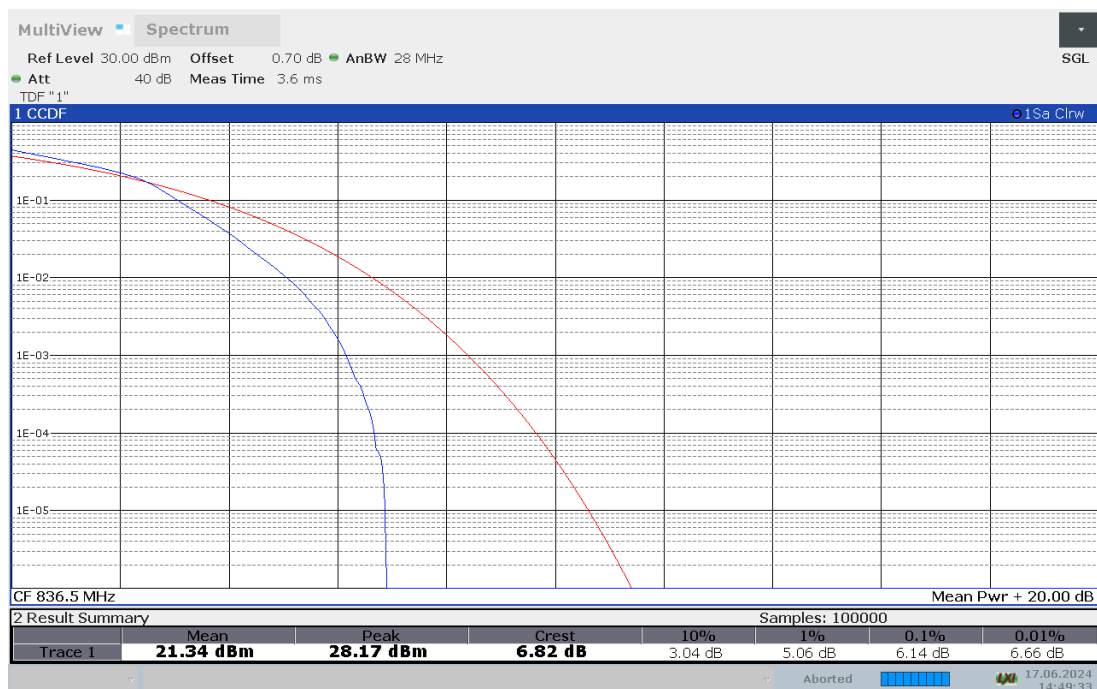
LTE Band 5, BW1.4MHz

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

LTE band 5 , 1.4MHz Bandwidth,QPSK



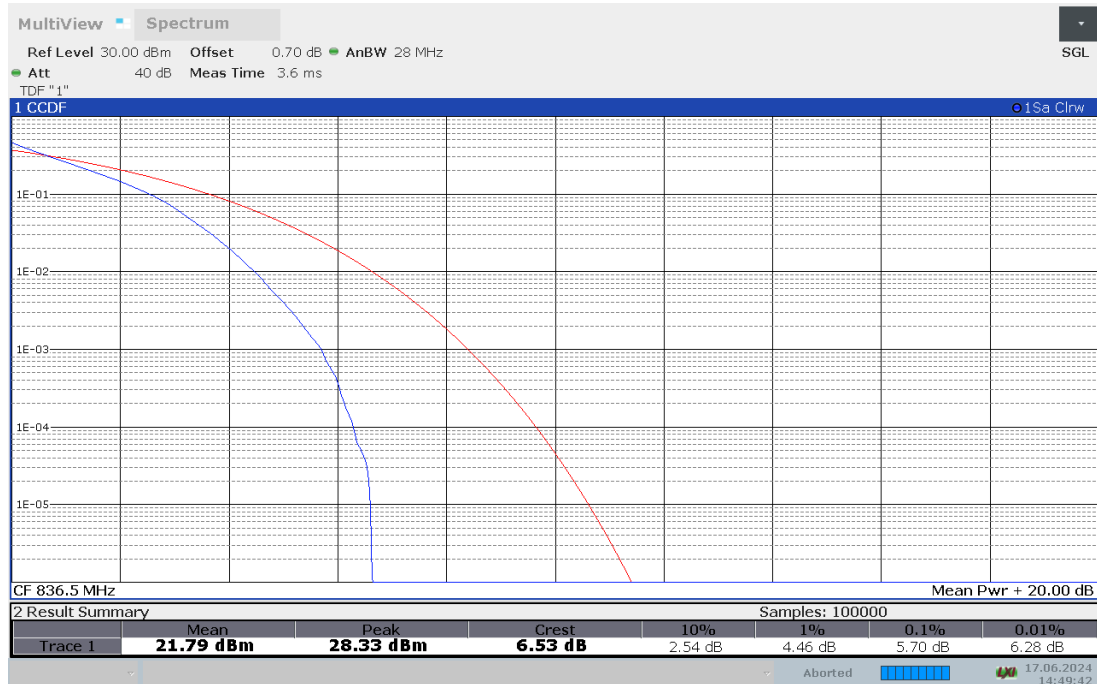
LTE band 5 , 1.4MHz Bandwidth,16QAM



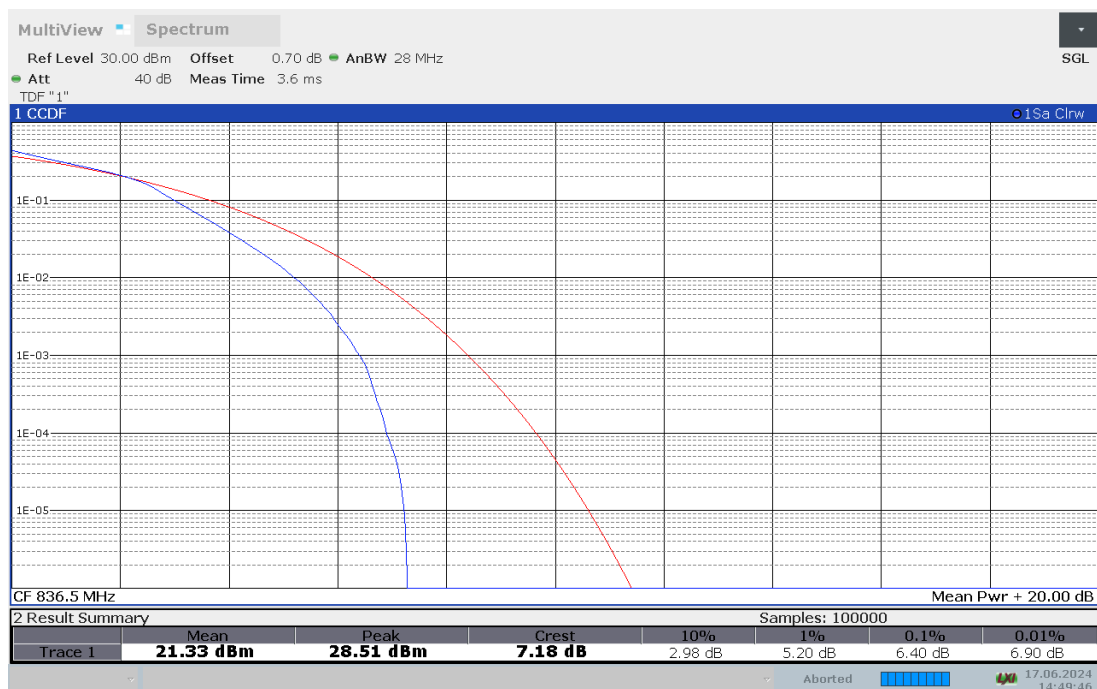
LTE Band 5, 3MHz

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

LTE band 5 , 3MHz Bandwidth,QPSK



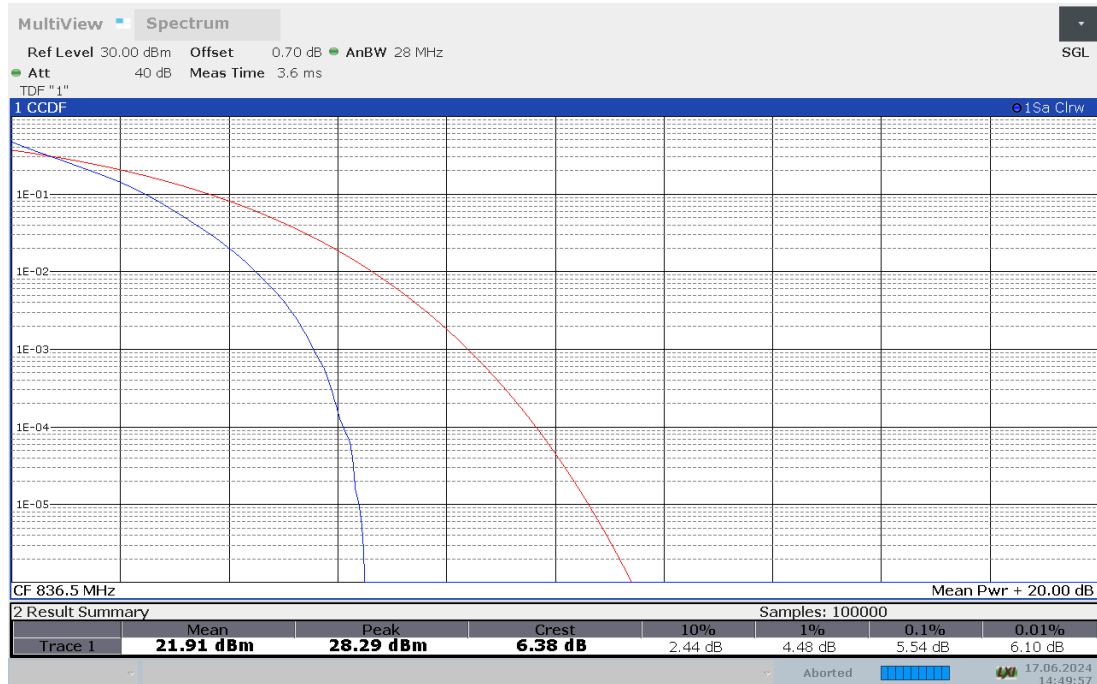
LTE band 5 , 3MHz Bandwidth,16QAM



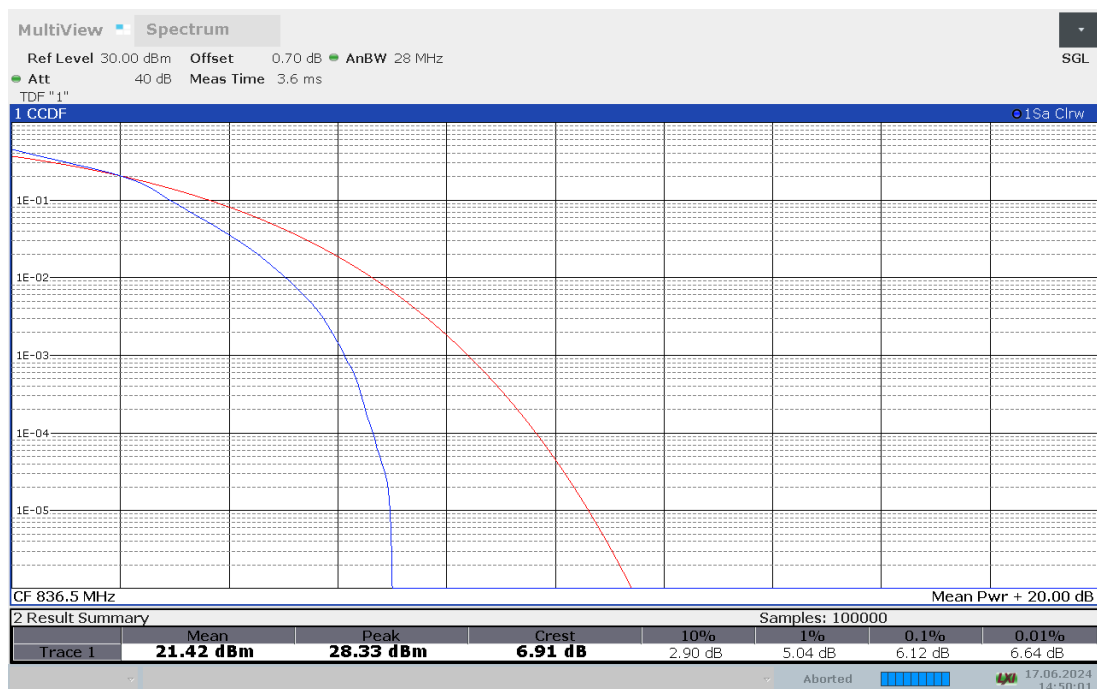
LTE Band 5, 5MHz

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

LTE band 5 , 5MHz Bandwidth,QPSK



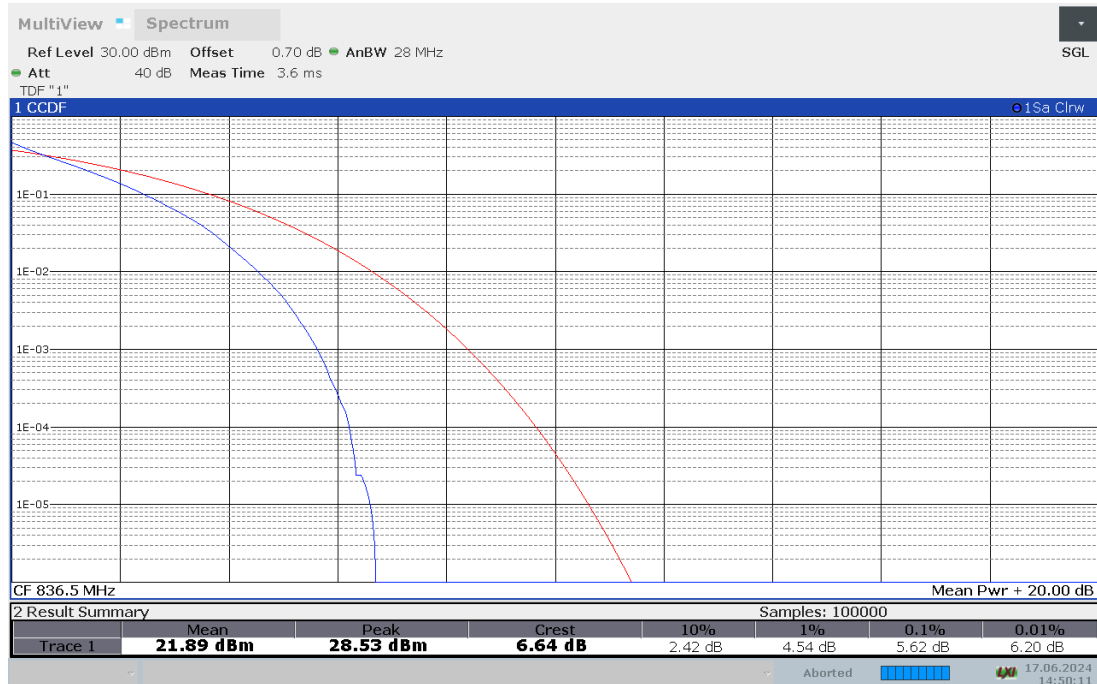
LTE band 5 , 5MHz Bandwidth,16QAM



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



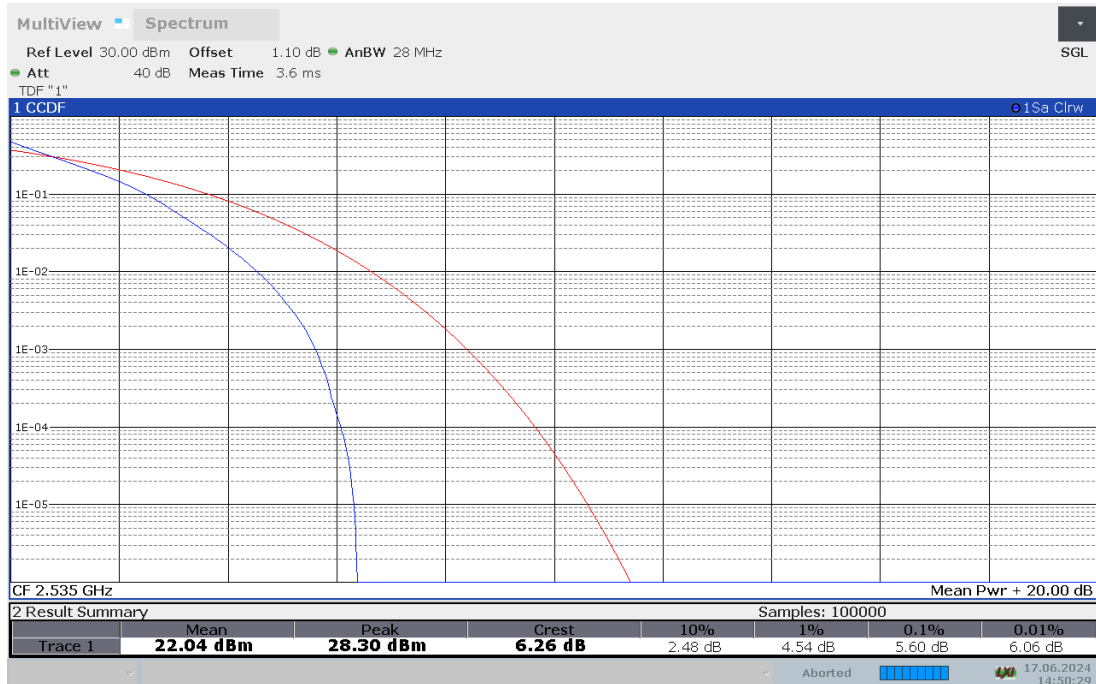
LTE band 5 , 10MHz Bandwidth,16QAM



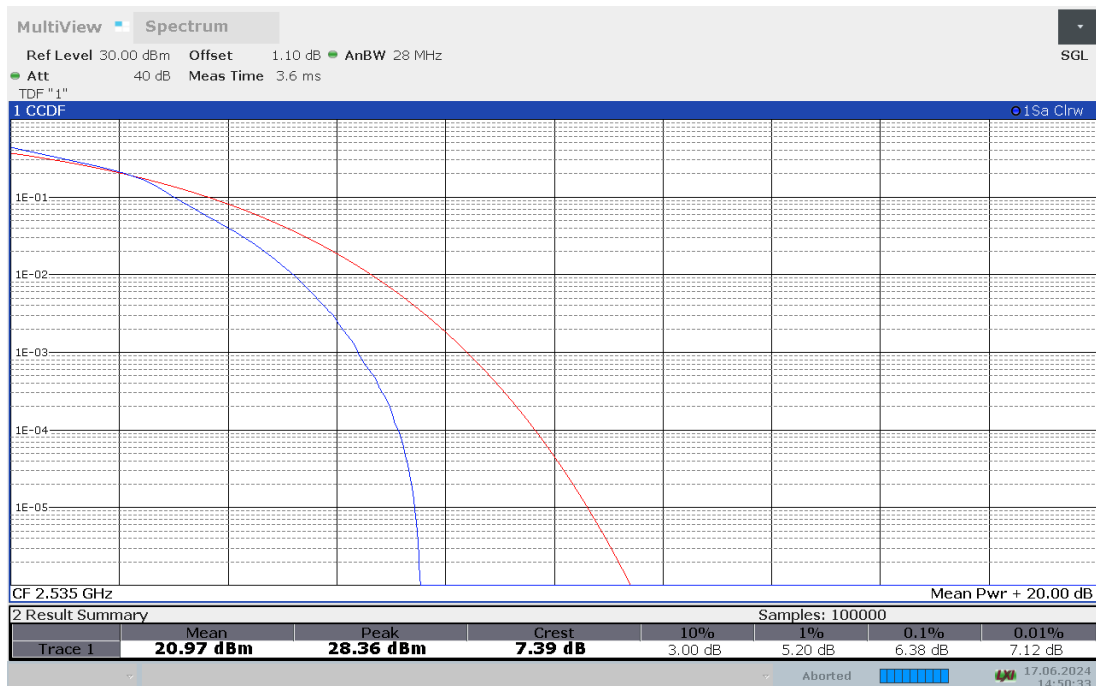
LTE Band 7, 5MHz

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

LTE band 7 , 5MHz Bandwidth,QPSK



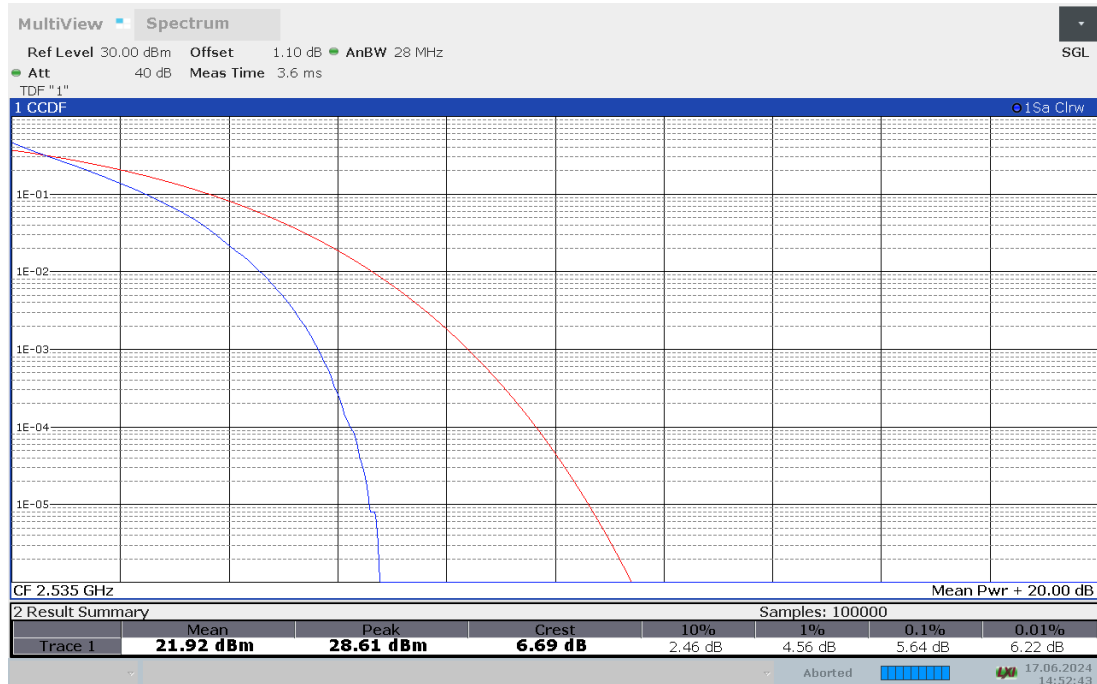
LTE band 7 , 5MHz Bandwidth,16QAM



LTE Band 7, 10MHz

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

LTE band 7 , 10MHz Bandwidth,QPSK



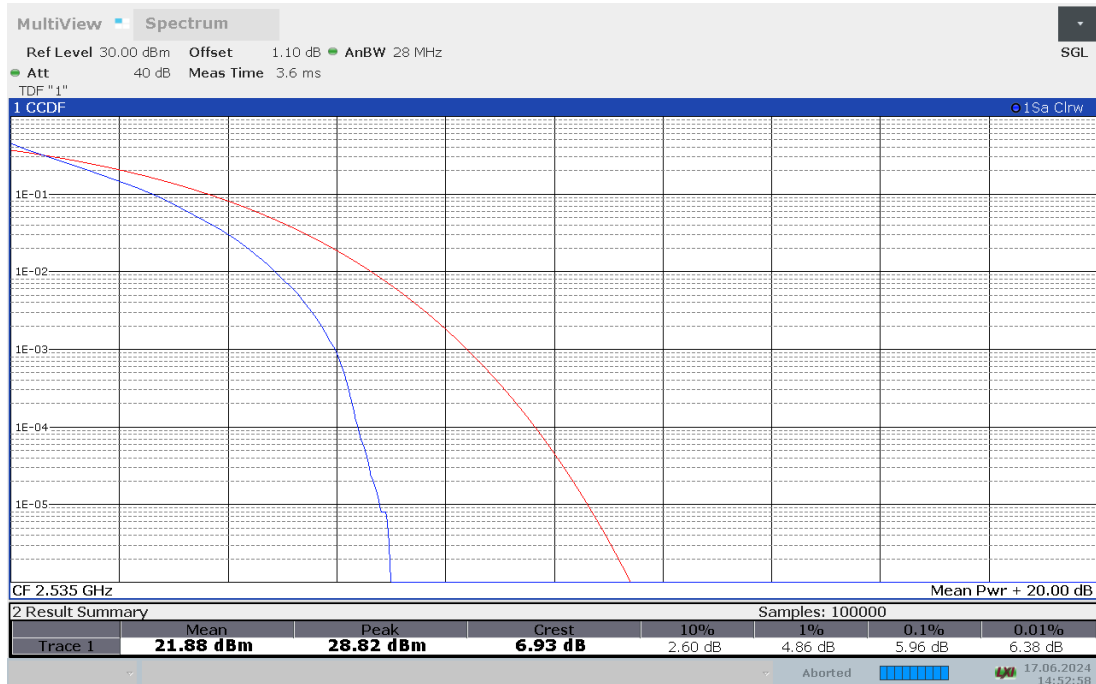
LTE band 7 , 10MHz Bandwidth,16QAM



LTE Band 7, 15MHz

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

LTE band 7 , 15MHz Bandwidth,QPSK



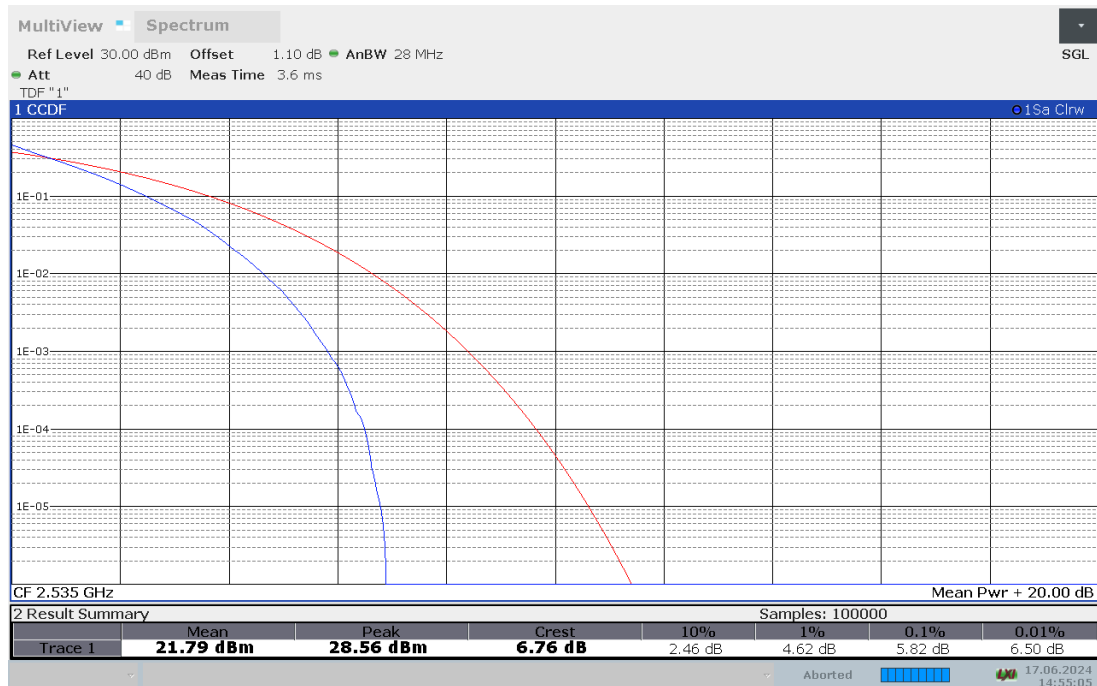
LTE band 7 , 15MHz Bandwidth,16QAM



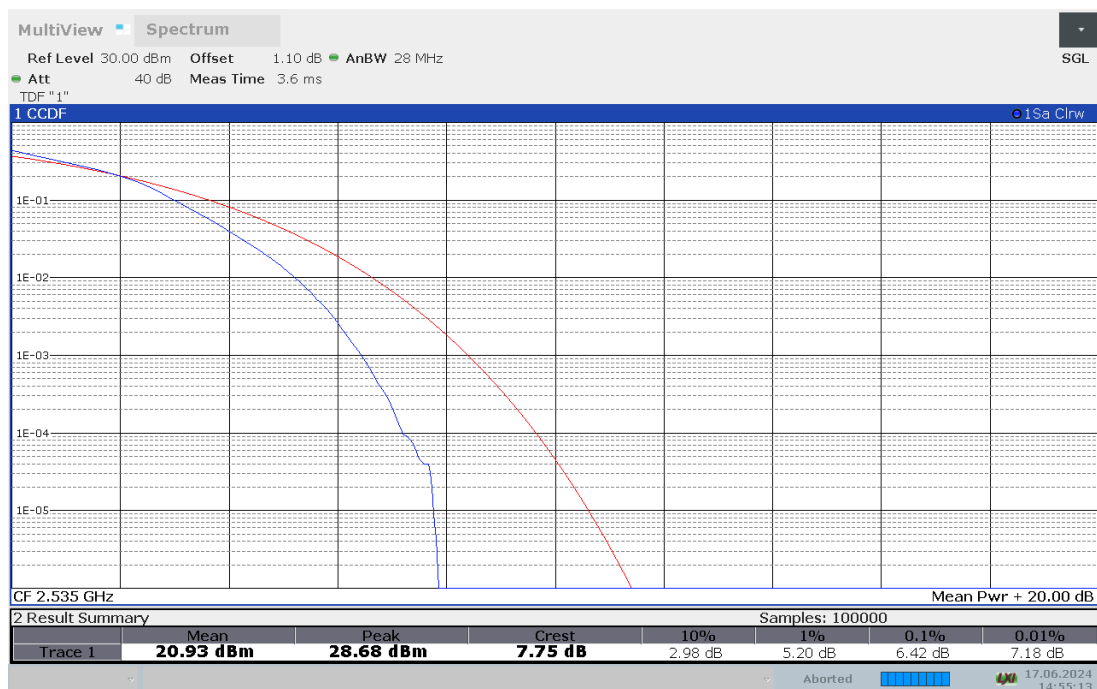
LTE Band 7, 20MHz

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

LTE band 7 , 20MHz Bandwidth,QPSK



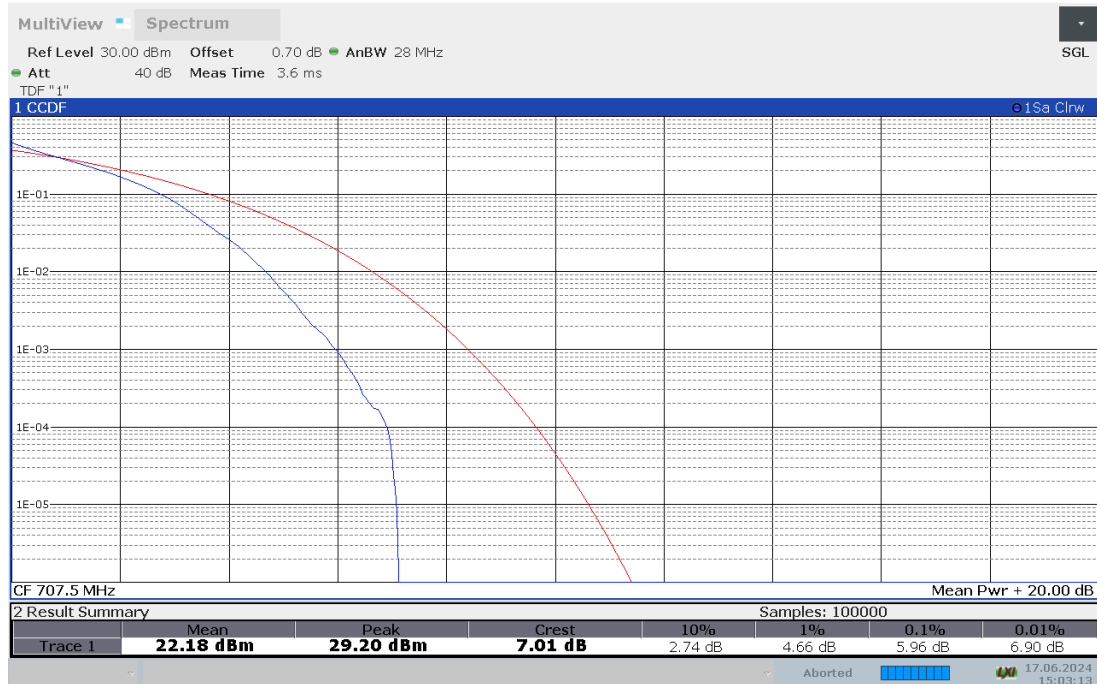
LTE band 7 , 20MHz Bandwidth,16QAM



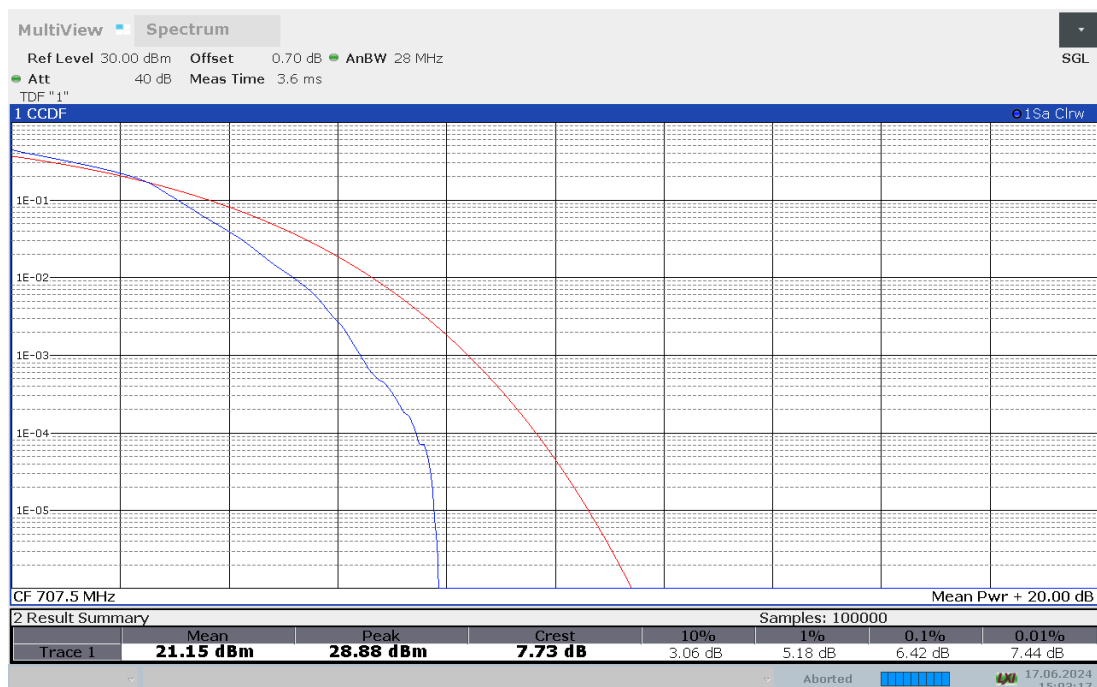
LTE Band 12, BW1.4MHz

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

LTE band 12 , 1.4MHz Bandwidth,QPSK



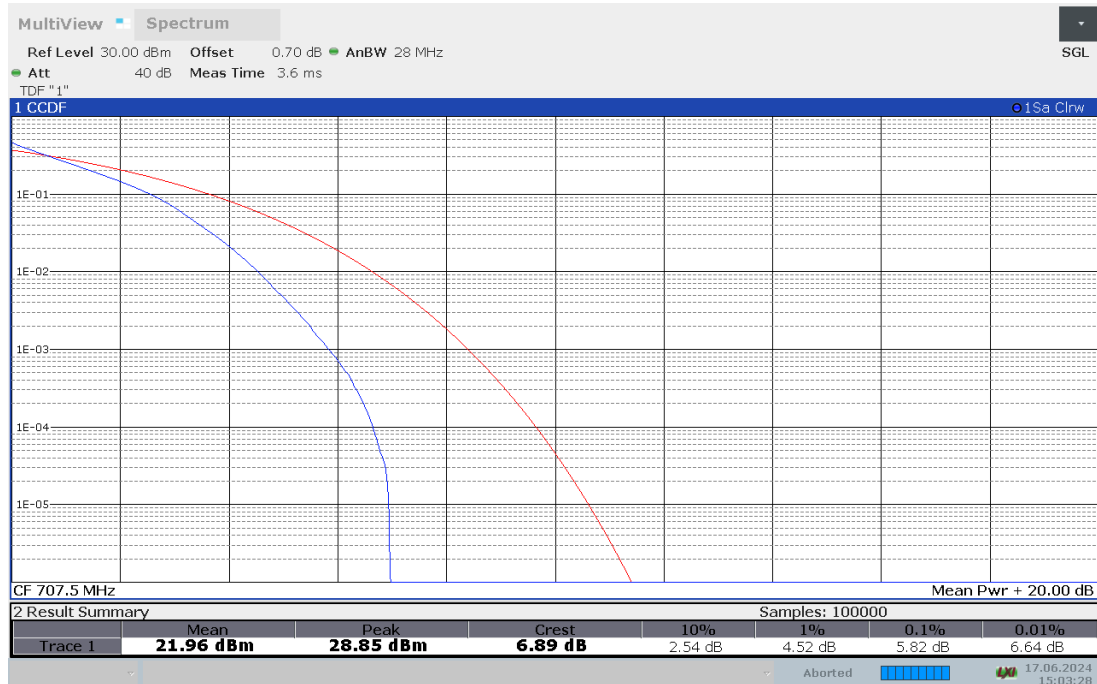
LTE band 12 , 1.4MHz Bandwidth,16QAM



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



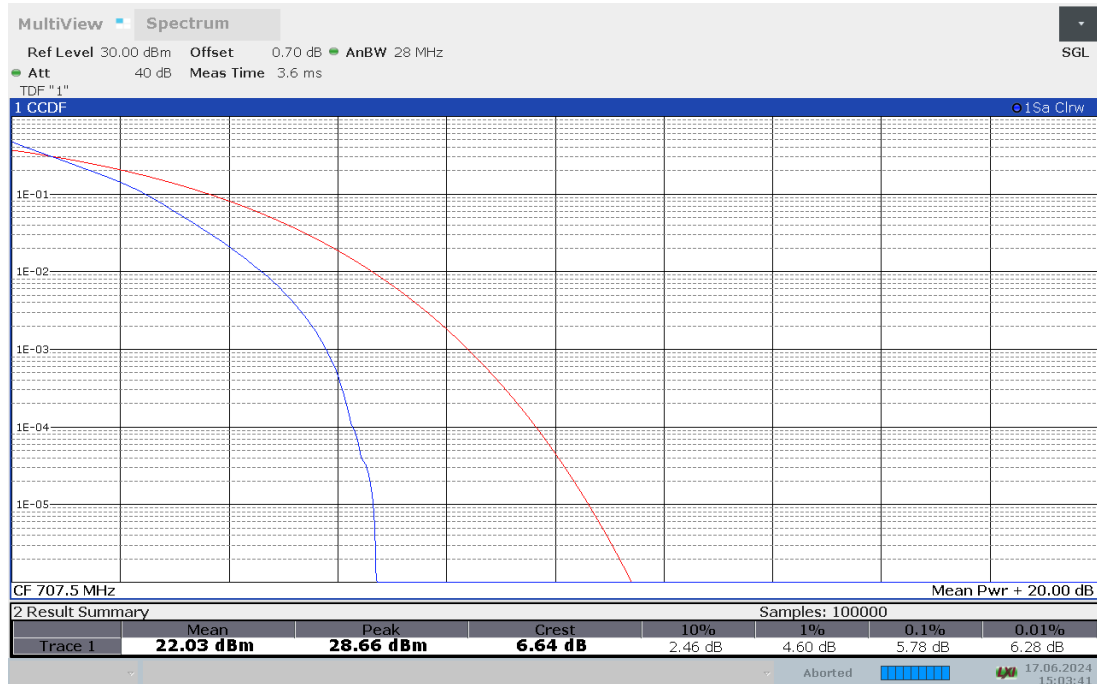
LTE band 12 , 3MHz Bandwidth,16QAM



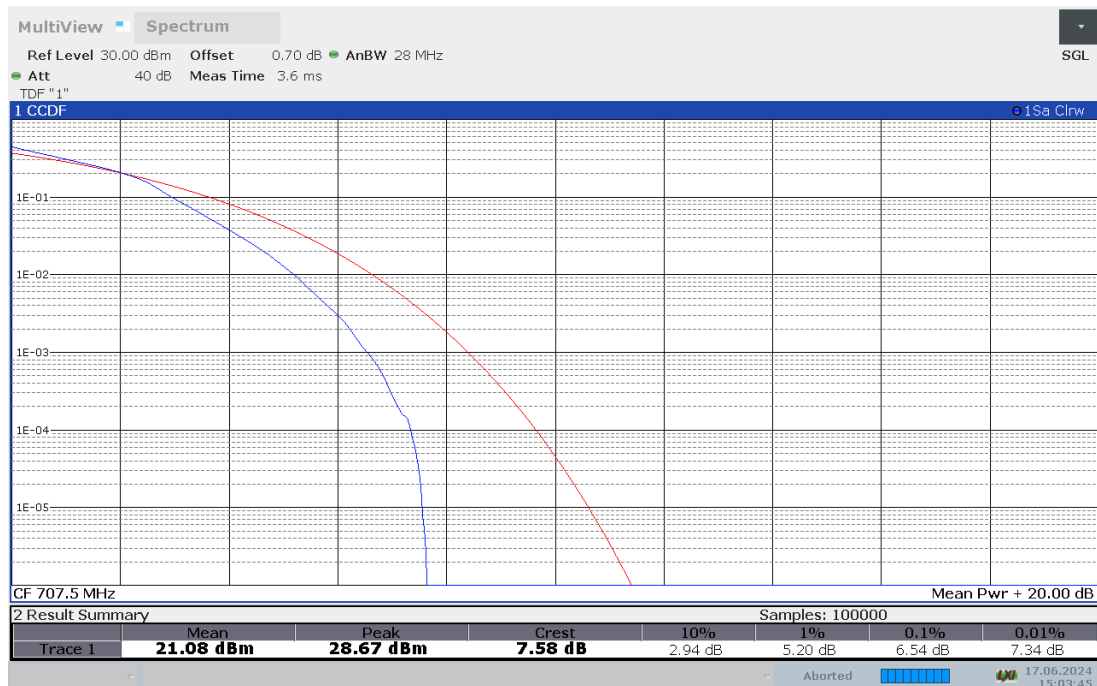
LTE Band 12, 5MHz

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

LTE band 12 , 5MHz Bandwidth,QPSK



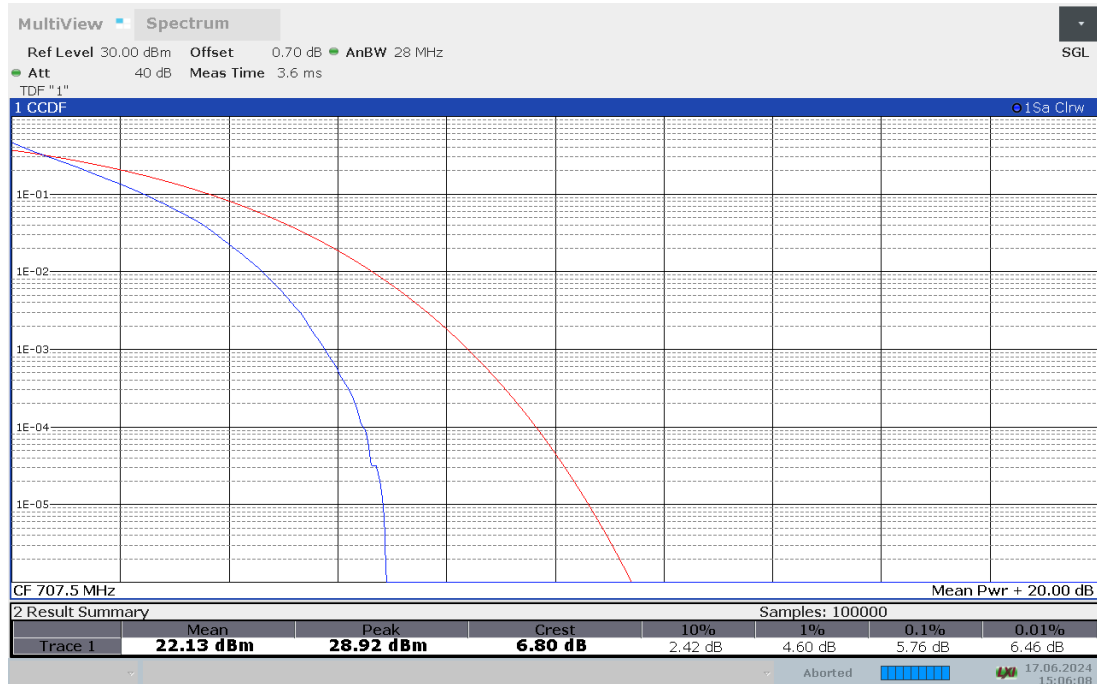
LTE band 12 , 5MHz Bandwidth,16QAM



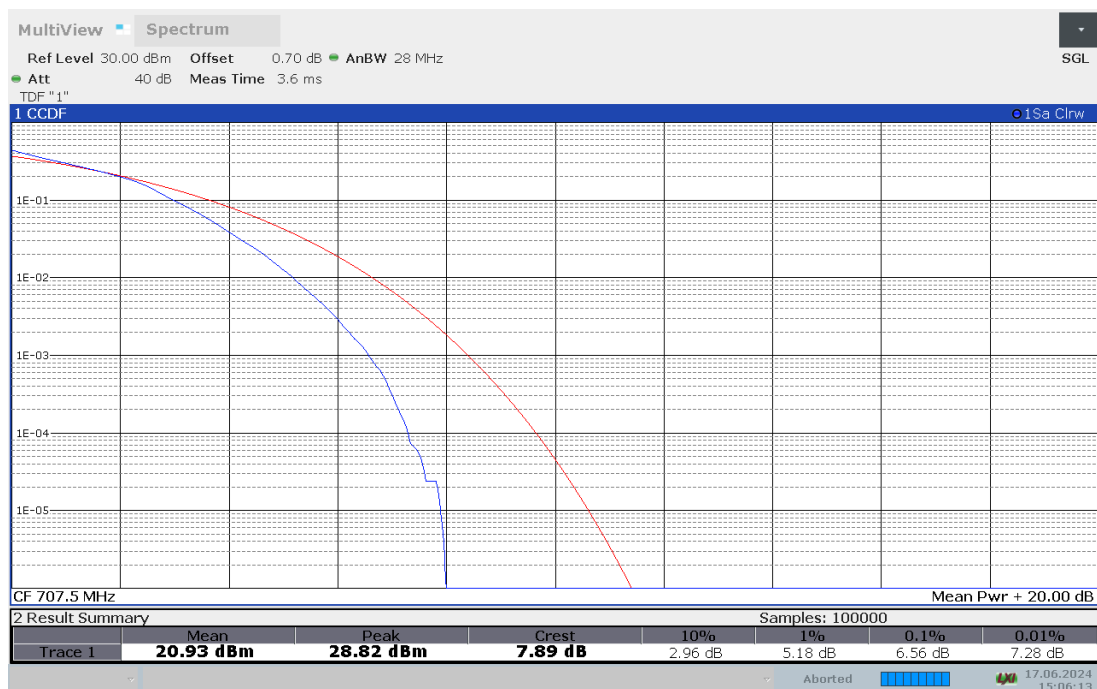
LTE Band 12, 10MHz

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

LTE band 12 , 10MHz Bandwidth,QPSK



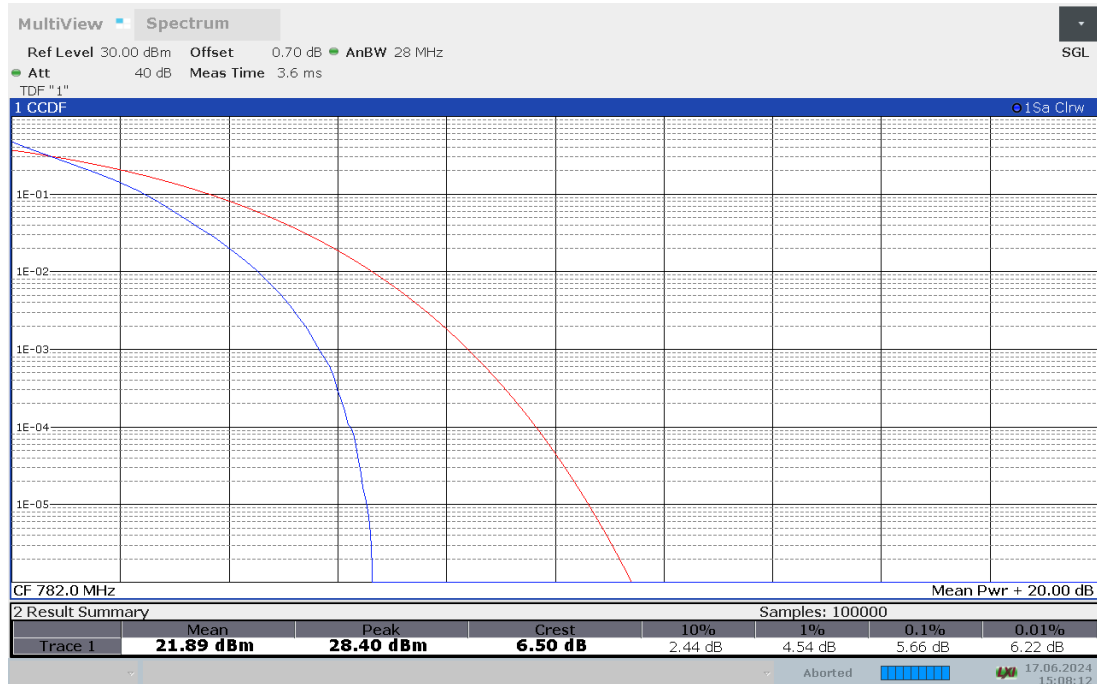
LTE band 12 , 10MHz Bandwidth,16QAM



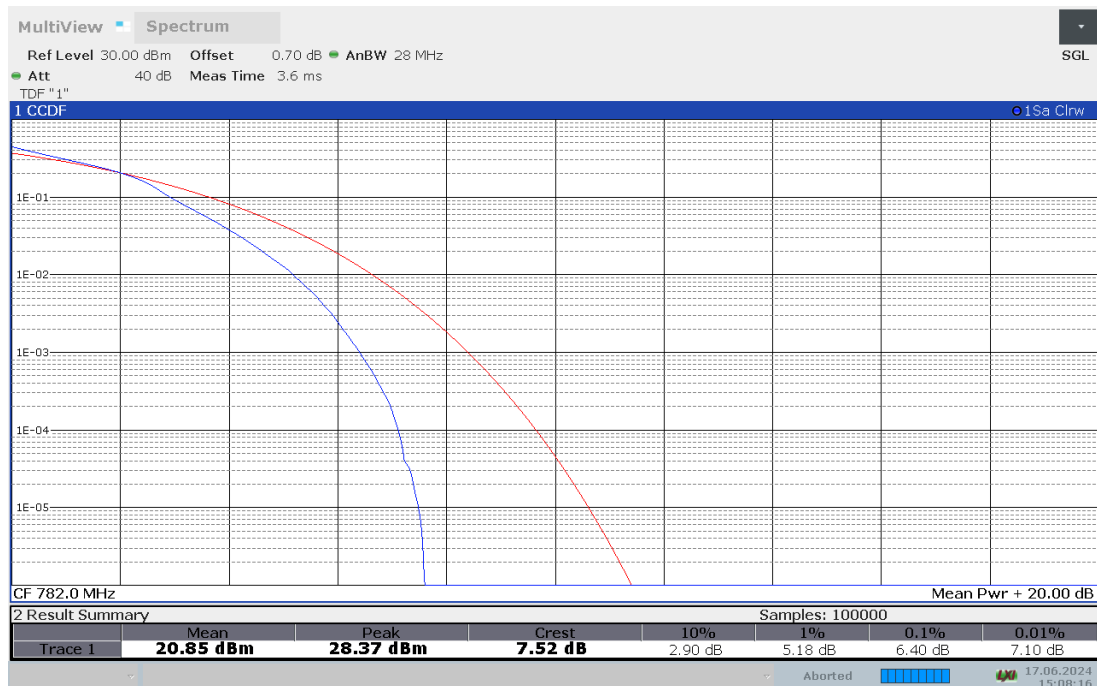
LTE Band 13, 5MHz

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

LTE band 13 , 5MHz Bandwidth,QPSK



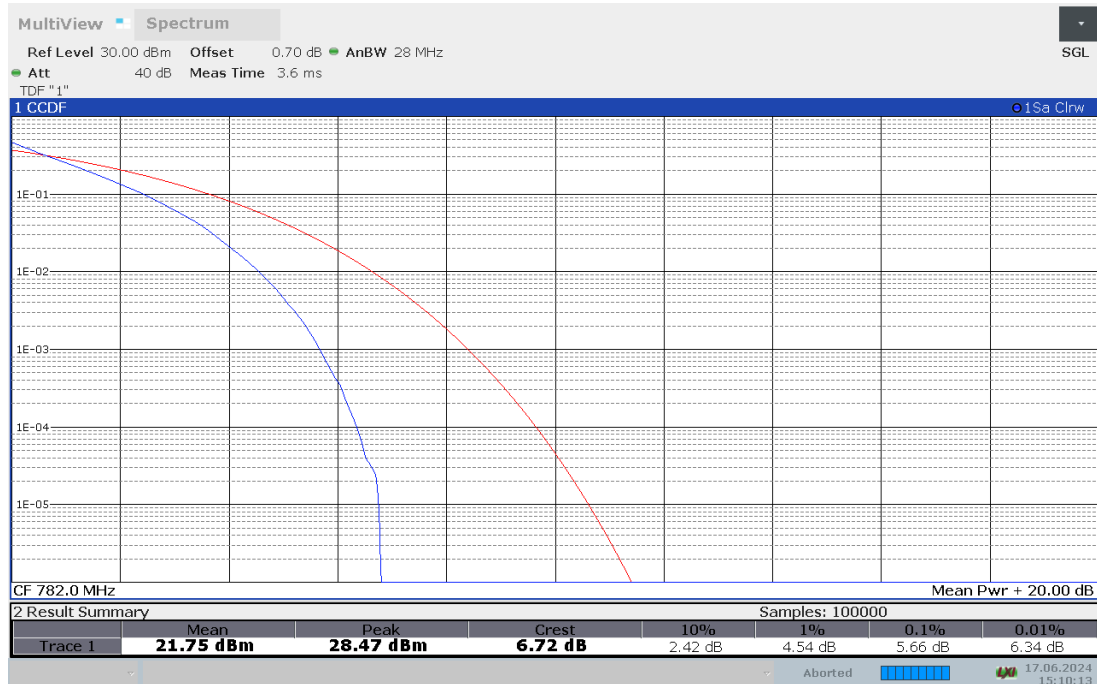
LTE band 13 , 5MHz Bandwidth,16QAM



LTE Band 13, 10MHz

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

LTE band 13 , 10MHz Bandwidth,QPSK



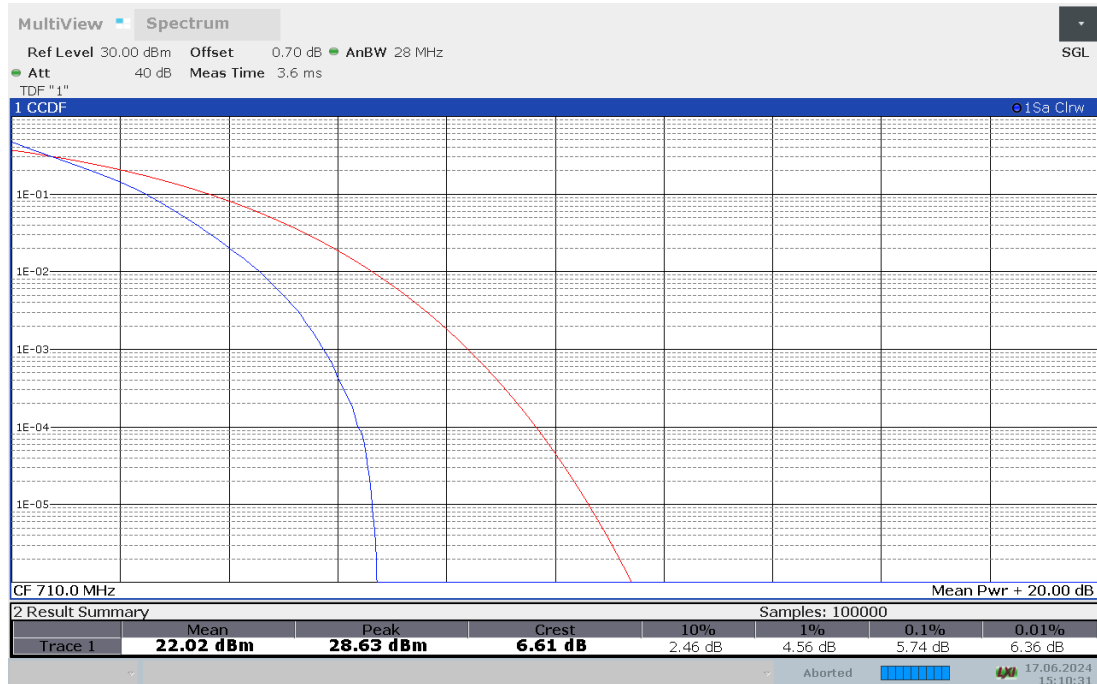
LTE band 13 , 10MHz Bandwidth,16QAM



LTE Band 17, 5MHz

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

LTE band 17 , 5MHz Bandwidth,QPSK



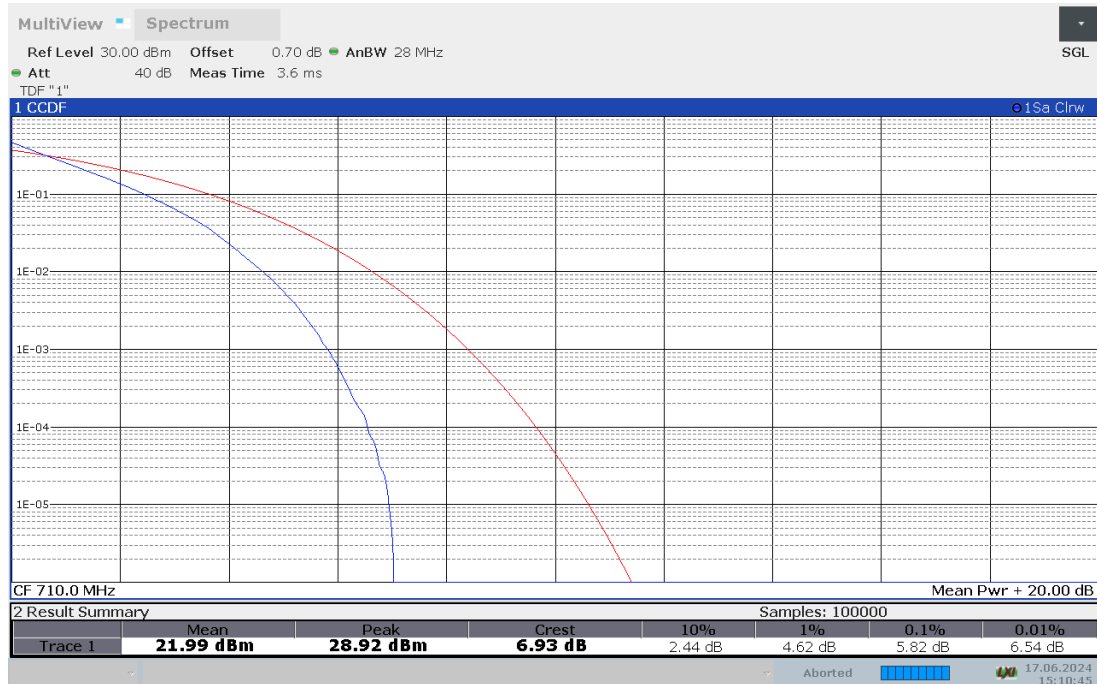
LTE band 17 , 5MHz Bandwidth,16QAM



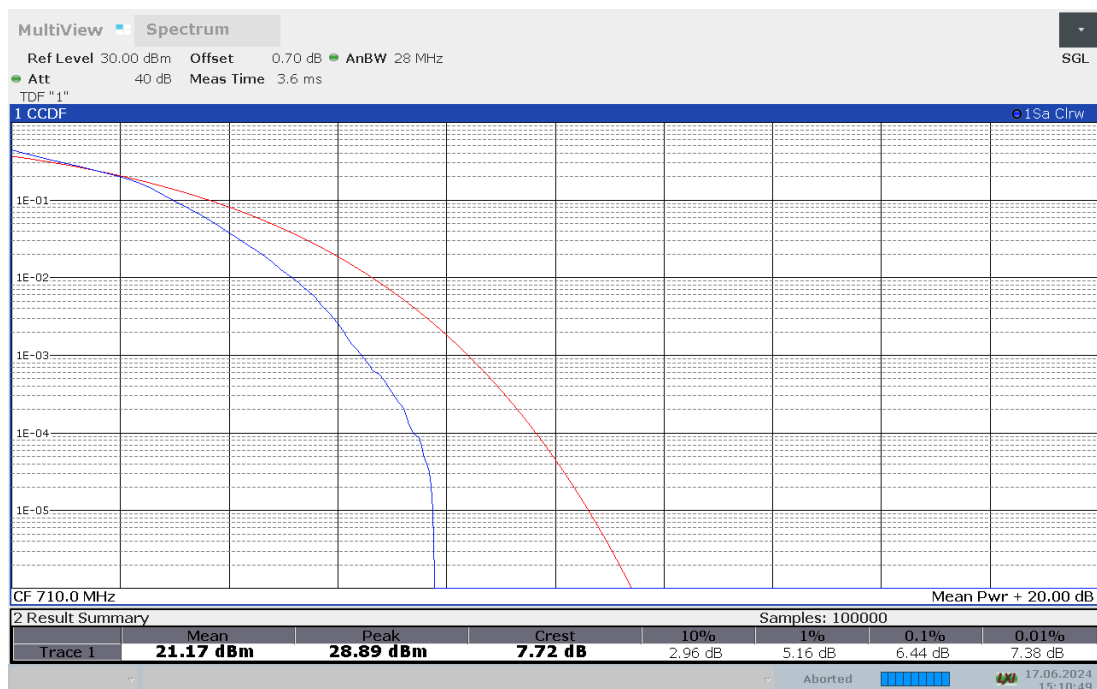
LTE Band 17, 10MHz

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

LTE band 17 , 10MHz Bandwidth,QPSK



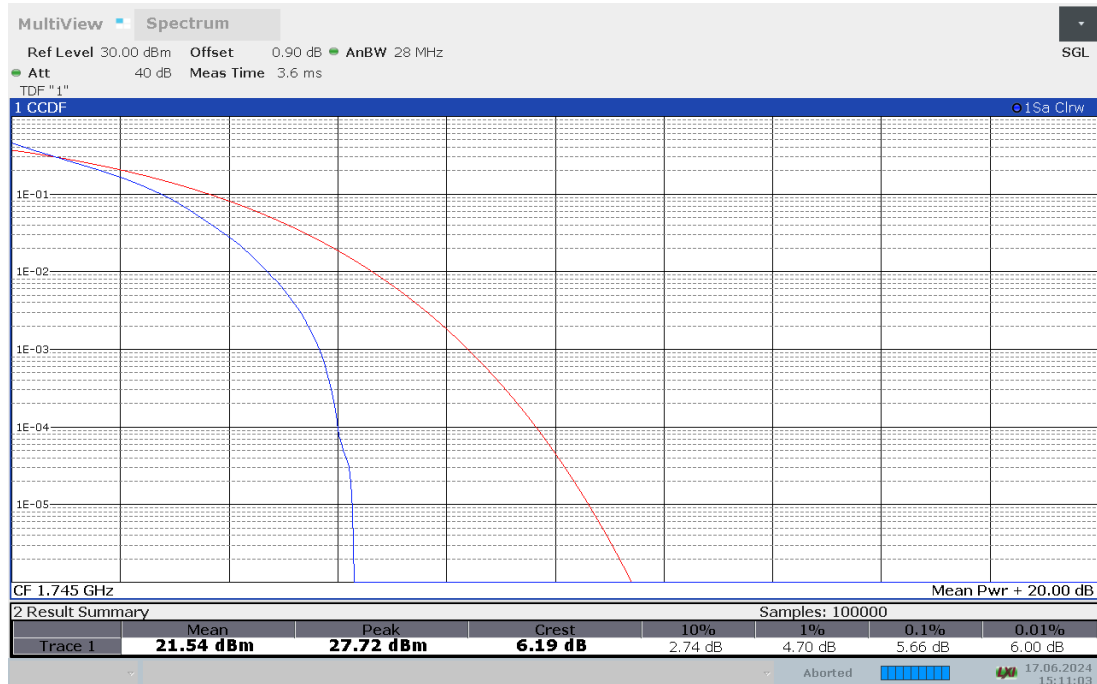
LTE band 17 , 10MHz Bandwidth,16QAM



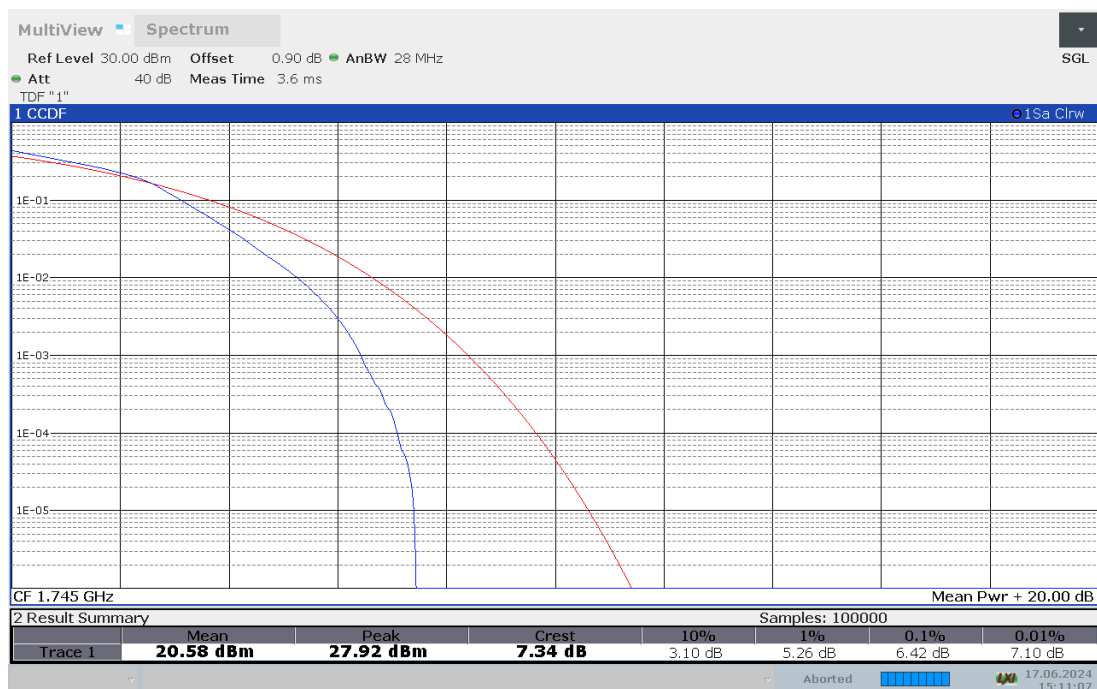
LTE Band 66, BW1.4MHz

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

LTE band 66 , 1.4MHz Bandwidth,QPSK



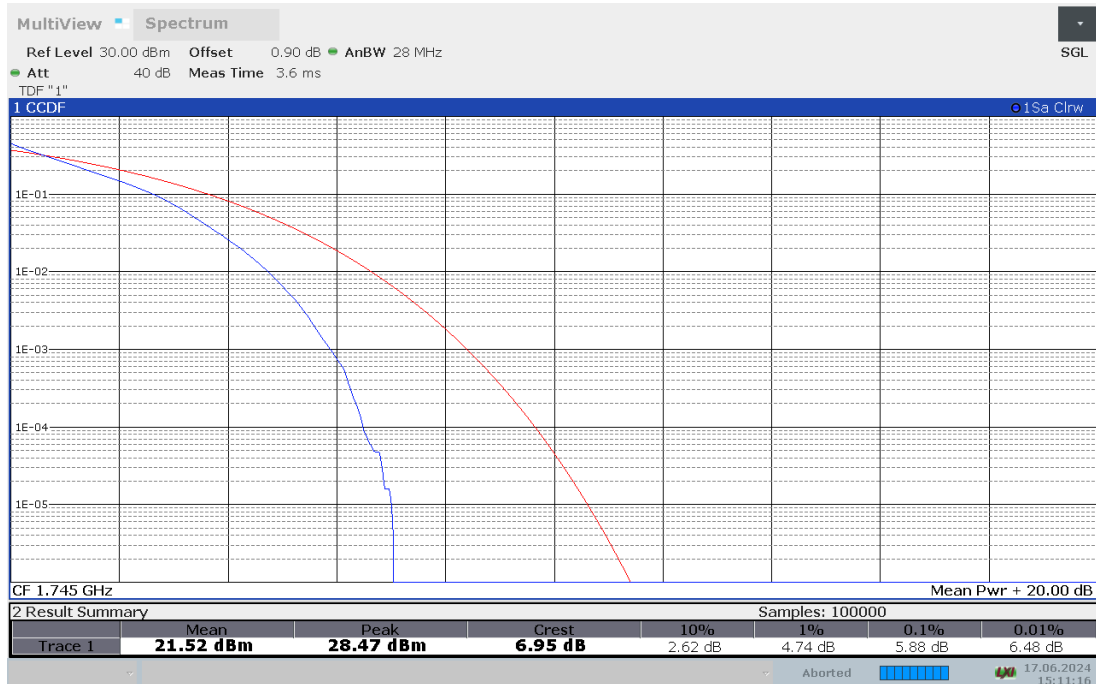
LTE band 66 , 1.4MHz Bandwidth,16QAM



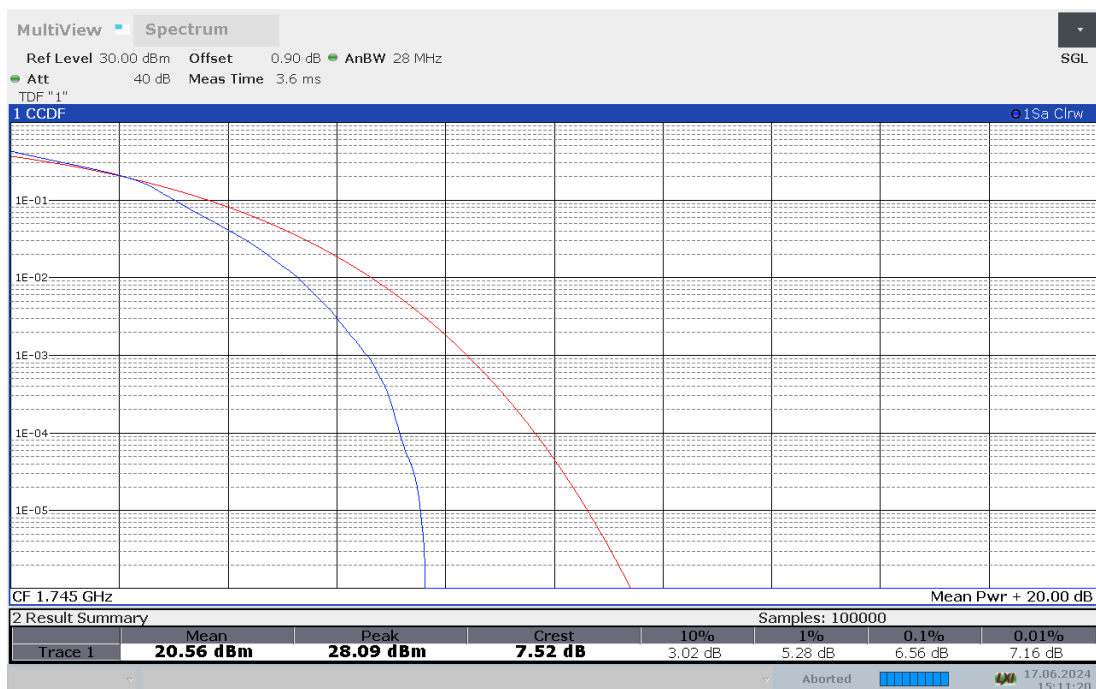
LTE Band 66, 3MHz

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

LTE band 66 , 3MHz Bandwidth,QPSK



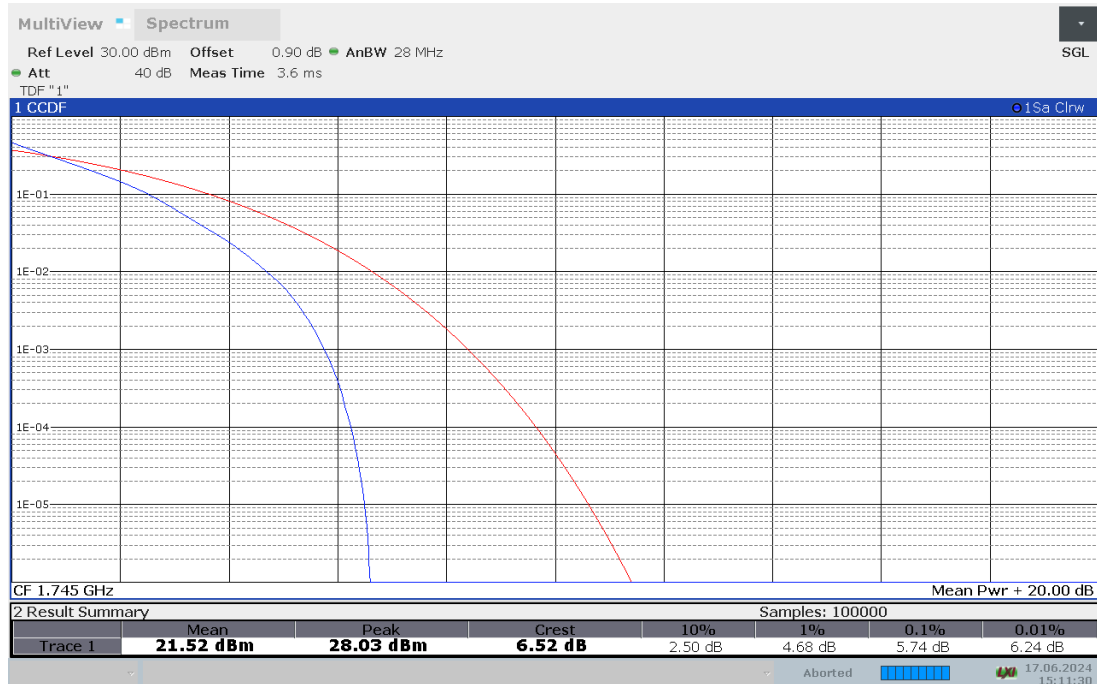
LTE band 66 , 3MHz Bandwidth,16QAM



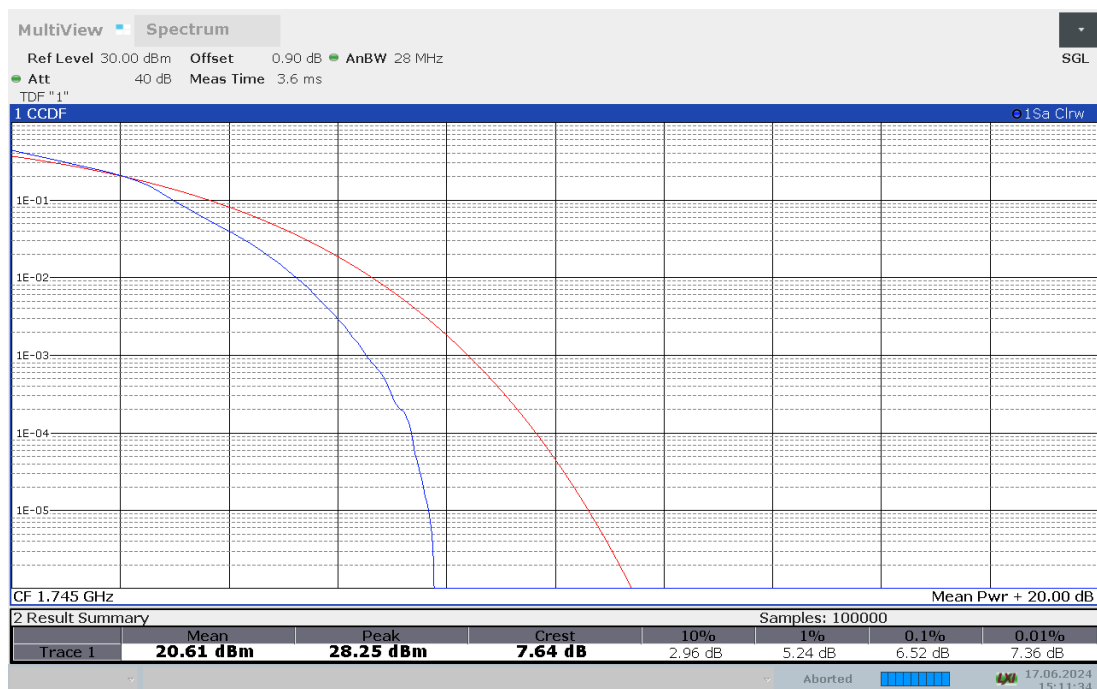
LTE Band 66, 5MHz

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

LTE band 66 , 5MHz Bandwidth,QPSK



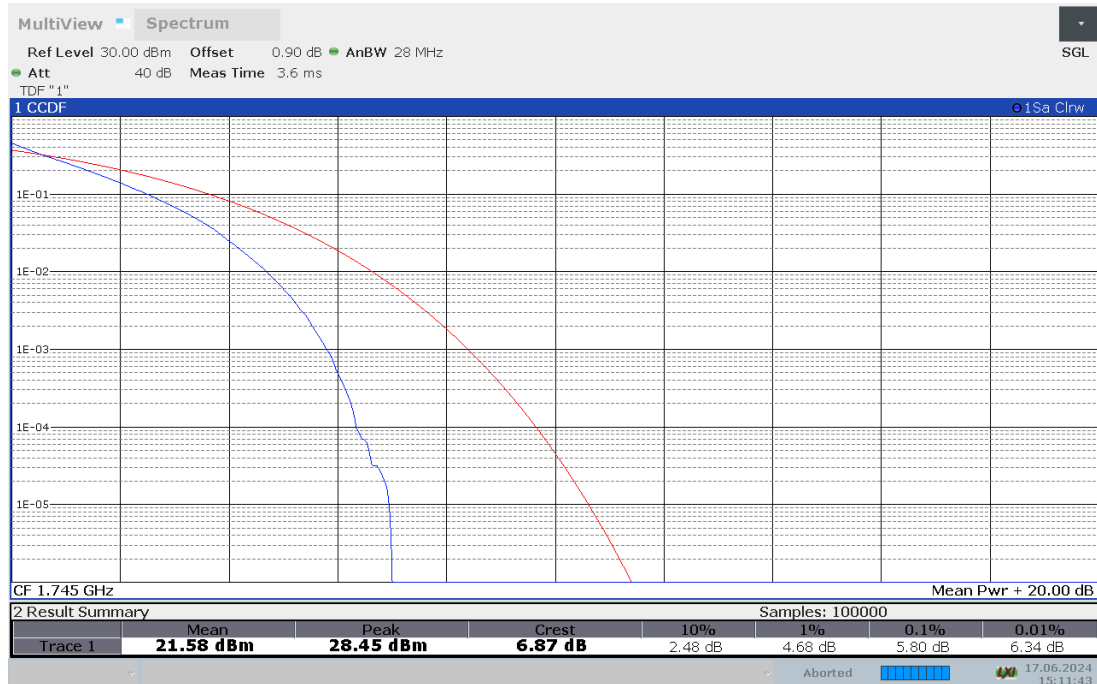
LTE band 66 , 5MHz Bandwidth,16QAM



LTE Band 66, 10MHz

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

LTE band 66 , 10MHz Bandwidth,QPSK



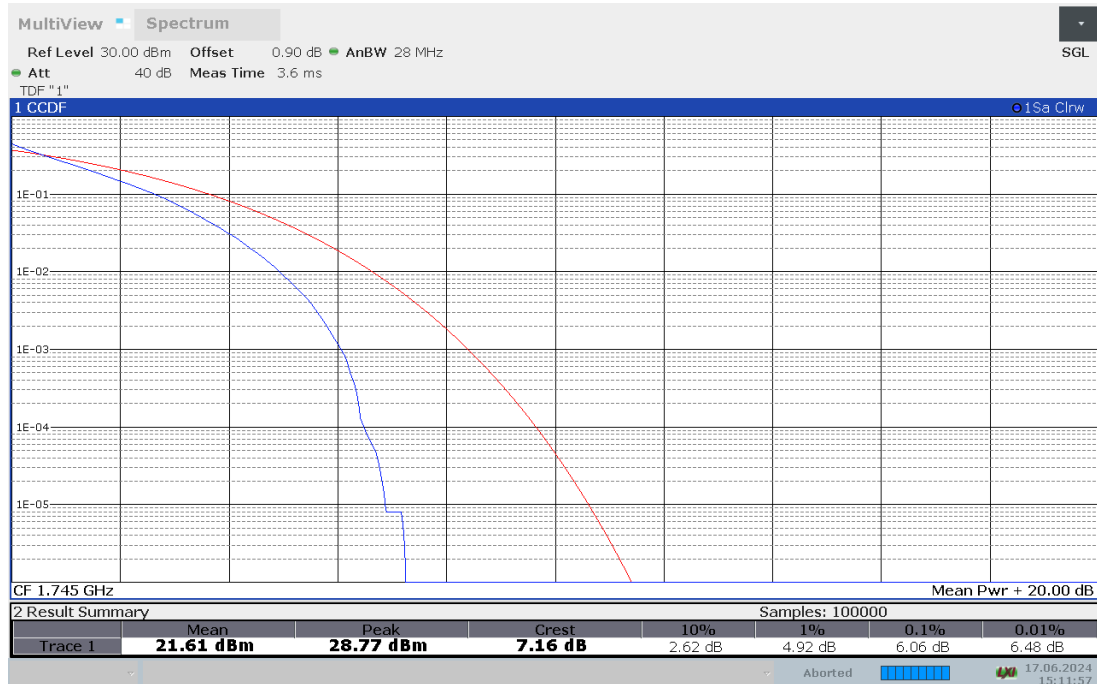
LTE band 66 , 10MHz Bandwidth,16QAM



LTE Band 66, 15MHz

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

LTE band 66 , 15MHz Bandwidth,QPSK



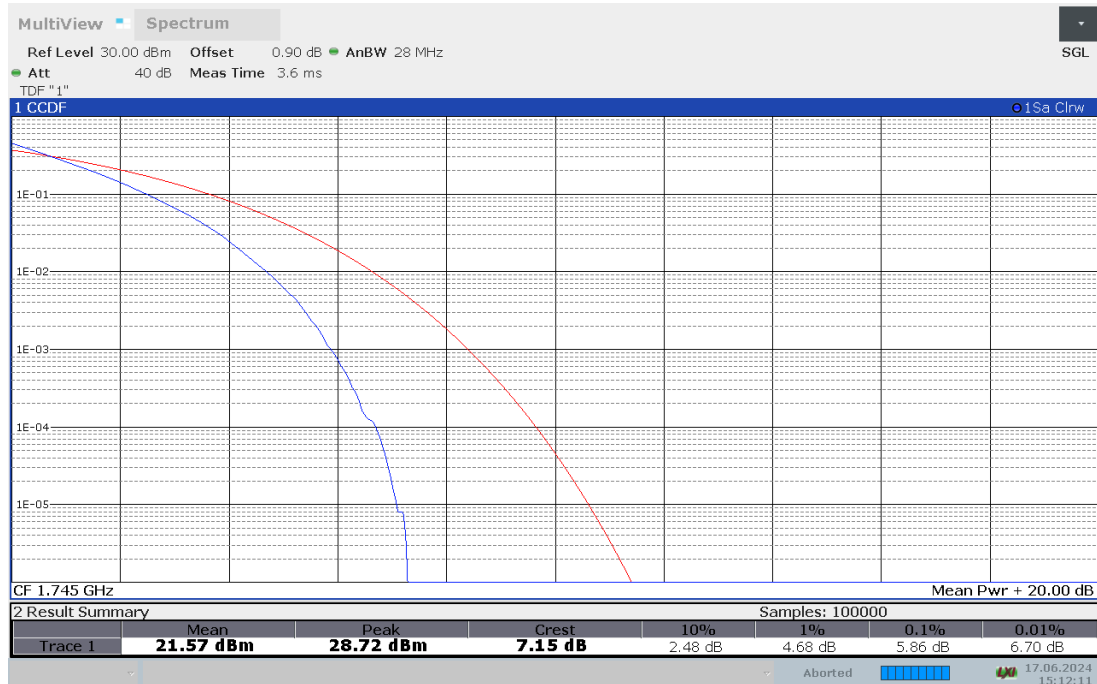
LTE band 66 , 15MHz Bandwidth,16QAM



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 14th 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*****