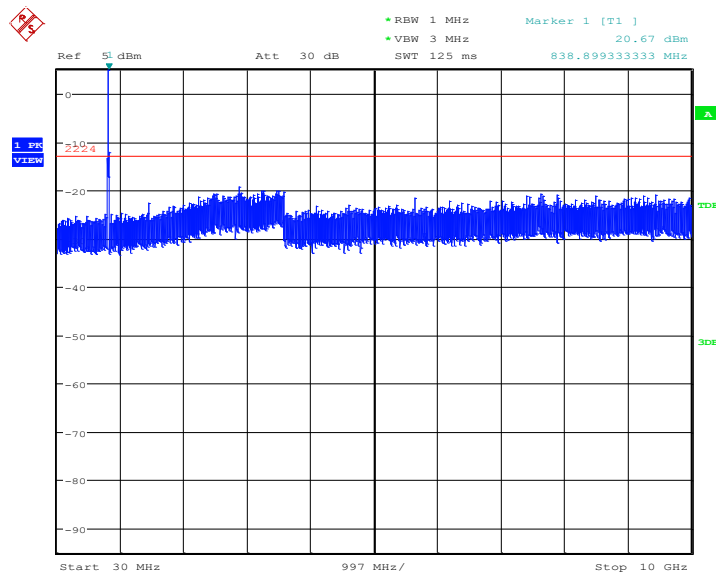


LTE band 5 : 30MHz – 10GHz

Spurious emission limit –13dBm.

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

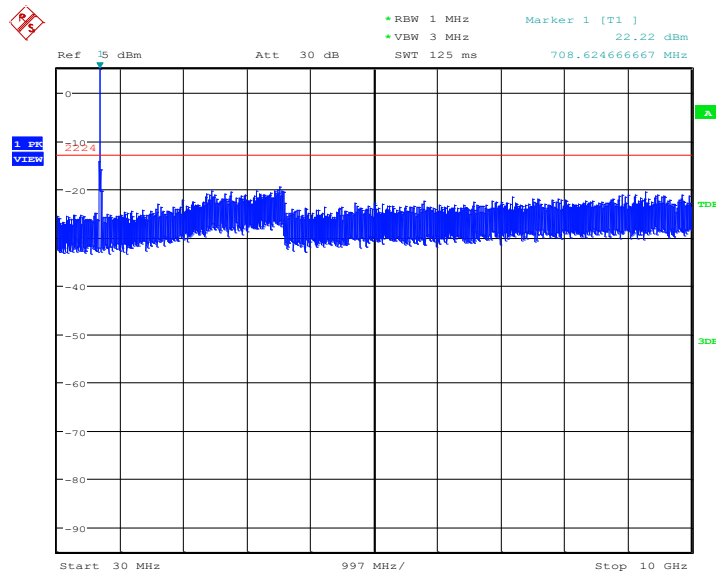


Date: 10.OCT.2021 08:56:01

LTE band 12: 30MHz – 10GHz

Spurious emission limit –13dBm.

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



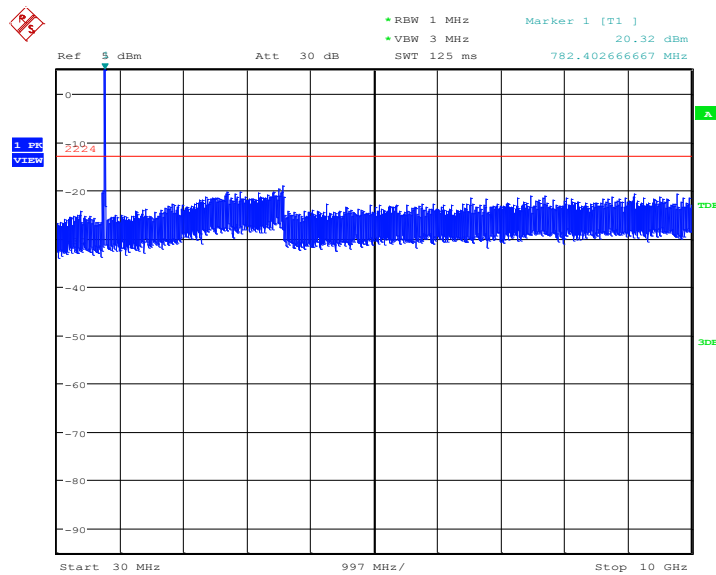
Date: 24.AUG.2021 18:04:32



LTE band 13: 30MHz – 10GHz

Spurious emission limit –13dBm.

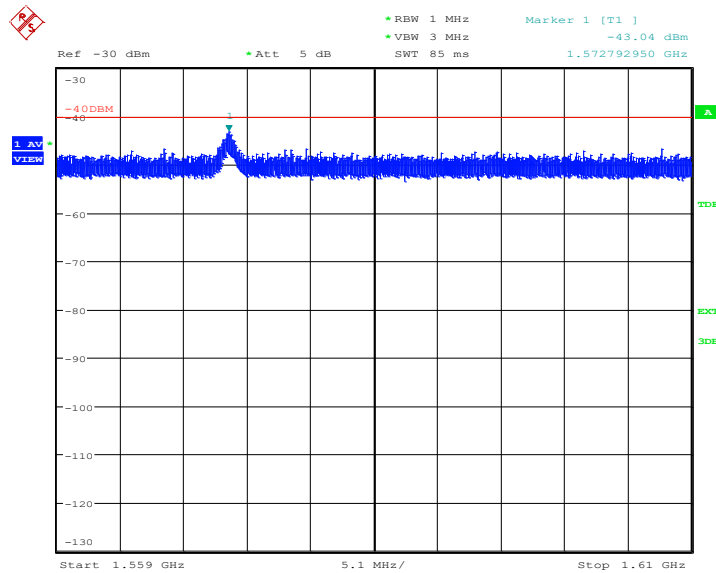
NOTE: peak above the limit line is the carrier frequency.



Date: 24.AUG.2021 18:03:34

LTE band 13: 1559MHz – 1610MHz

Spurious emission limit –40dBm.

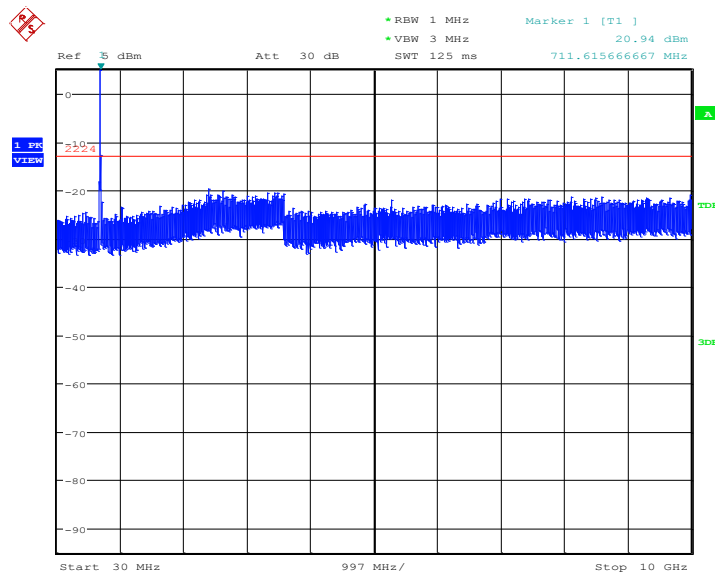


Date: 25.AUG.2021 15:37:02

LTE band 17: 30MHz – 10GHz

Spurious emission limit –13dBm.

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

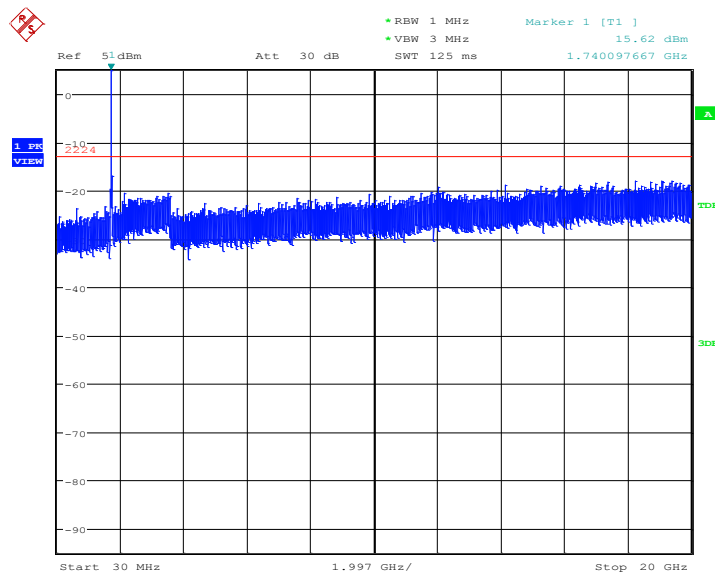


Date: 24.AUG.2021 18:05:30

LTE band 66: 30MHz – 20GHz

Spurious emission limit –13dBm.

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



Date: 24.AUG.2021 18:07:23

Note: Expanded measurement uncertainty is $U = 0.49\text{dB}(100\text{KHz}-2\text{GHz})/1.21\text{dB}(2\text{GHz}-26.5\text{GHz})$, $k = 1.96$

A.8 PEAK-TO-AVERAGE POWER RATIO

Reference

FCC: CFR Part 24.232, 27.50(d), KDB971168 D01(5.7).

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure. The measurement must be performed using a signal corresponding to the highest PAPR expected during periods of continuous transmission.

- 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) Set the measurement interval to 1 ms
- e) Record the maximum PAPR level associated with a probability of 0.1%

A.8.1 Measurement limit

not exceed 13 dB

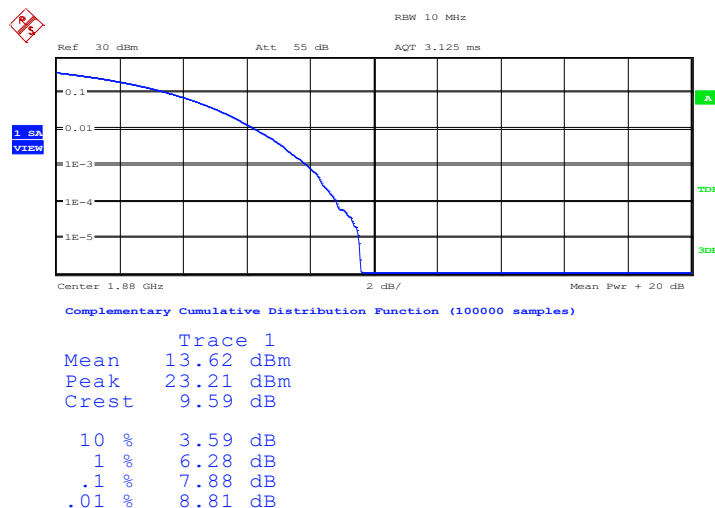
A.8.2 Measurement results

Only worst case result is given below

LTE band 2

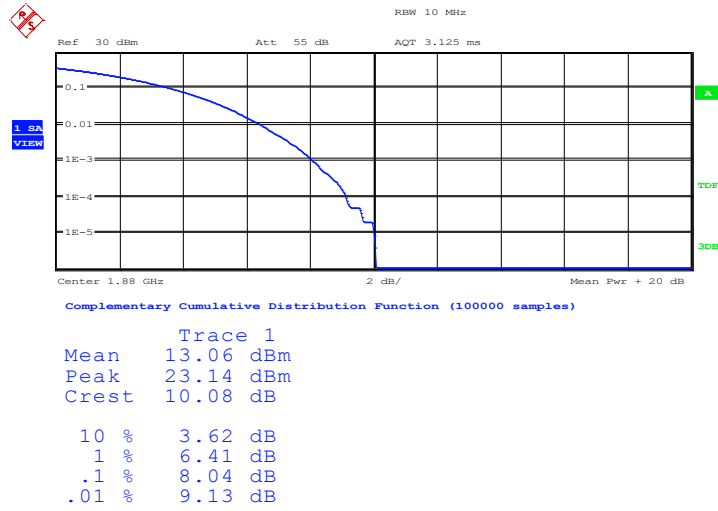
| Frequency(MHz) | Bandwidth(MHz) | PAPR(dB) | | |
|----------------|----------------|----------|-------|-------|
| | | QPSK | 16QAM | 64QAM |
| 1880.0 | 20 | 7.88 | 8.04 | 7.53 |

LTE band 2, 20MHz Bandwidth, QPSK (PAPR)



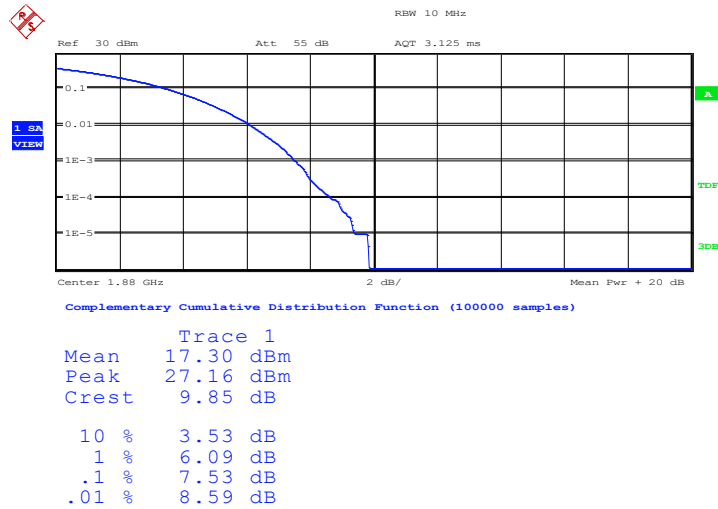
Date: 11.OCT.2021 09:27:32

LTE band 2, 20MHz Bandwidth, 16QAM (PAPR)



Date: 11.OCT.2021 09:27:38

LTE band 2, 20MHz Bandwidth, 64QAM (PAPR)

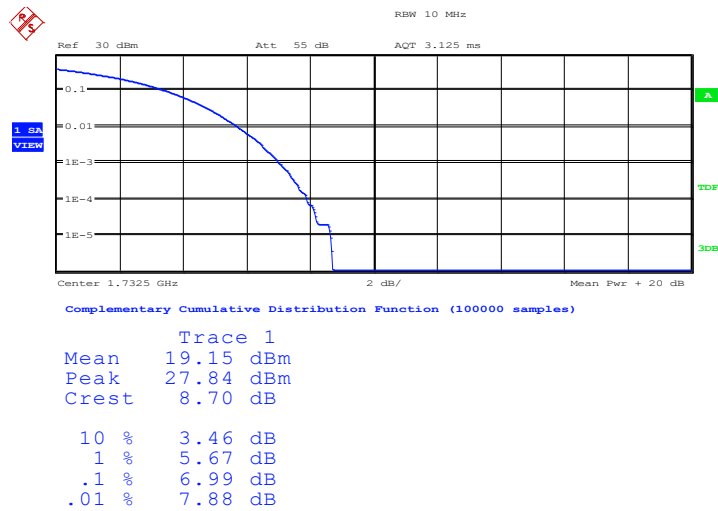


Date: 16.OCT.2021 10:02:19

LTE band 4

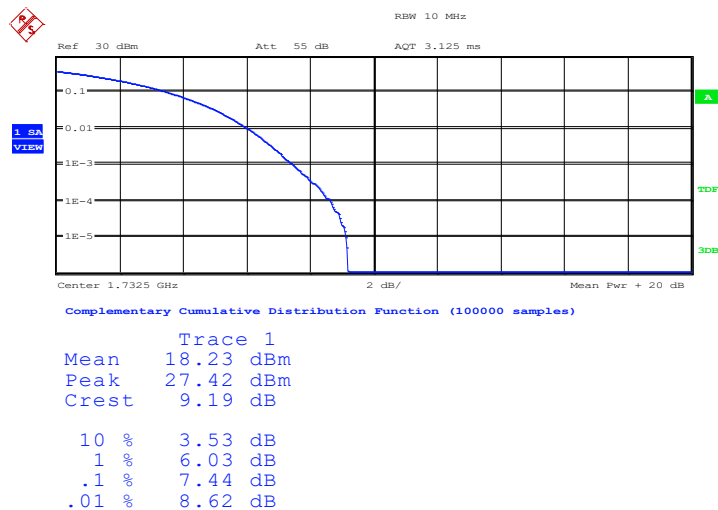
| Frequency(MHz) | Bandwidth(MHz) | PAPR(dB) | | |
|----------------|----------------|----------|-------|-------|
| | | QPSK | 16QAM | 64QAM |
| 1732.5 | 20 | 6.99 | 7.44 | 7.50 |

LTE band 4, 20MHz Bandwidth, QPSK (PAPR)



Date: 11.OCT.2021 09:32:41

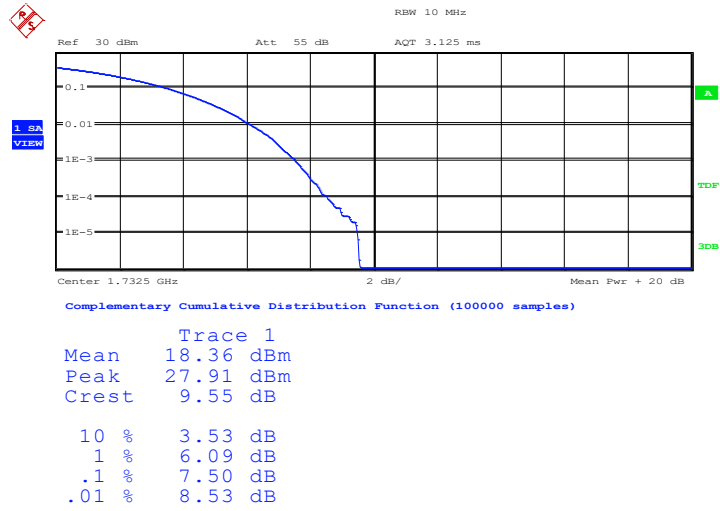
LTE band 4, 20MHz Bandwidth, 16QAM (PAPR)



Date: 11.OCT.2021 09:32:47



LTE band 4, 20MHz Bandwidth, 64QAM (PAPR)

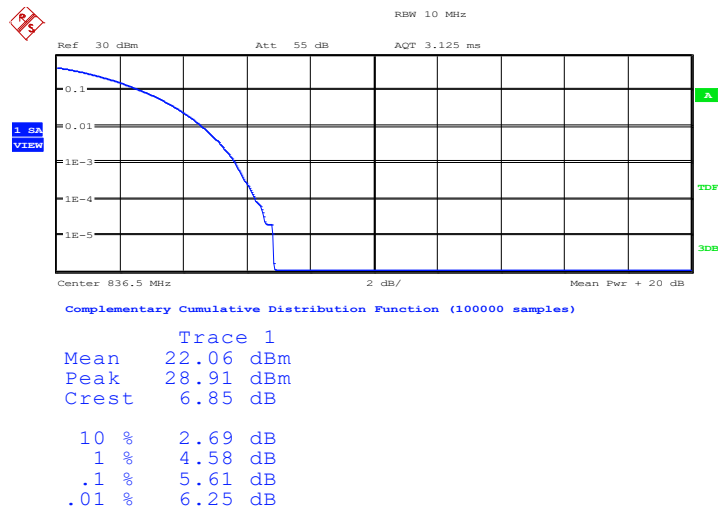


Date: 16.OCT.2021 10:03:54

LTE band 5

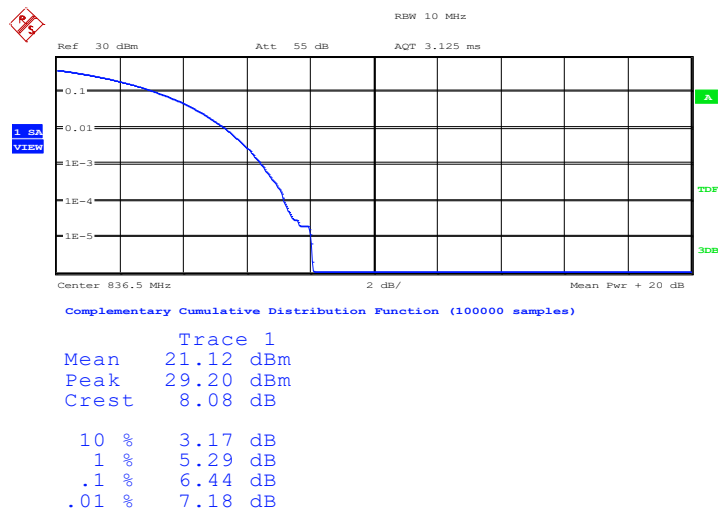
| Frequency(MHz) | Bandwidth(MHz) | PAPR(dB) | | |
|----------------|----------------|----------|-------|-------|
| | | QPSK | 16QAM | 64QAM |
| 836.5 | 10 | 5.61 | 6.44 | 6.41 |

LTE band 5, 10MHz Bandwidth, QPSK (PAPR)



Date: 10.OCT.2021 08:45:54

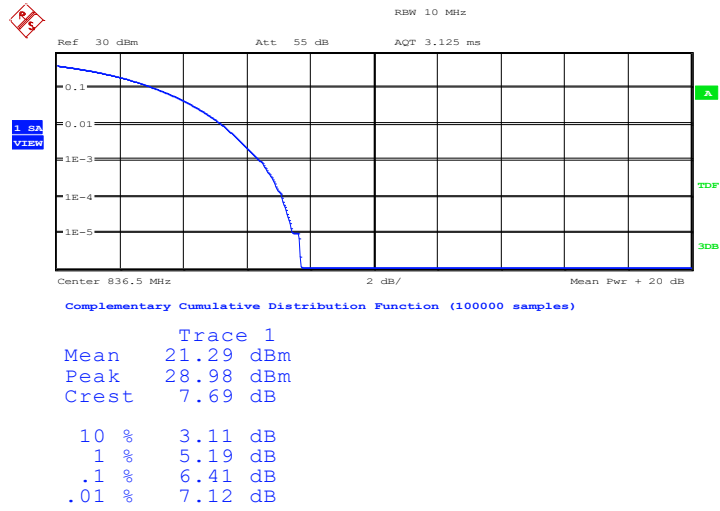
LTE band 5, 10MHz Bandwidth, 16QAM (PAPR)



Date: 10.OCT.2021 08:46:01



LTE band 5, 10MHz Bandwidth, 64QAM (PAPR)

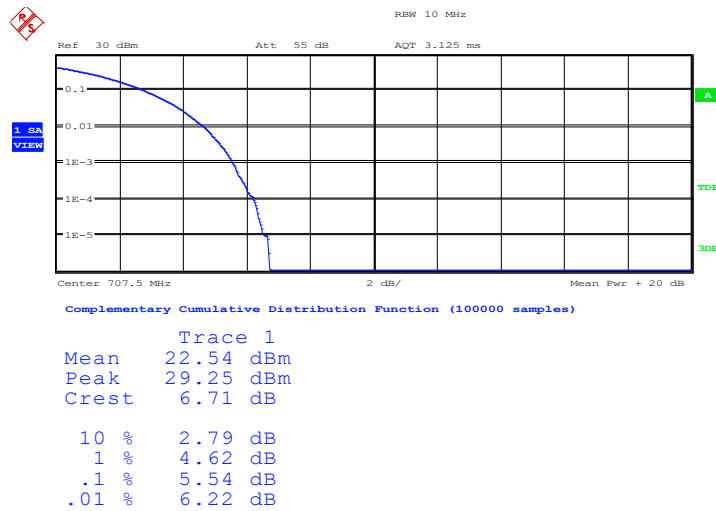


Date: 16.OCT.2021 10:00:47

LTE band 12

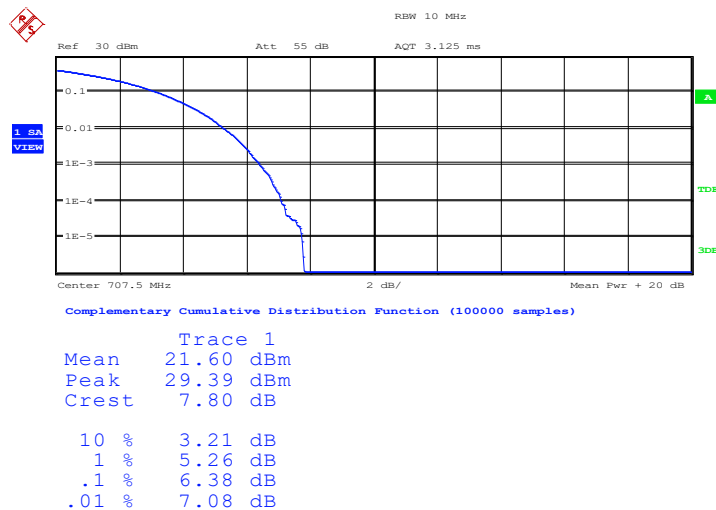
| Frequency(MHz) | Bandwidth(MHz) | PAPR(dB) | | |
|----------------|----------------|----------|-------|-------|
| | | QPSK | 16QAM | 64QAM |
| 707.5 | 10 | 5.54 | 6.38 | 6.41 |

LTE band 12, 10MHz Bandwidth, QPSK (PAPR)



Date: 24.AUG.2021 17:58:23

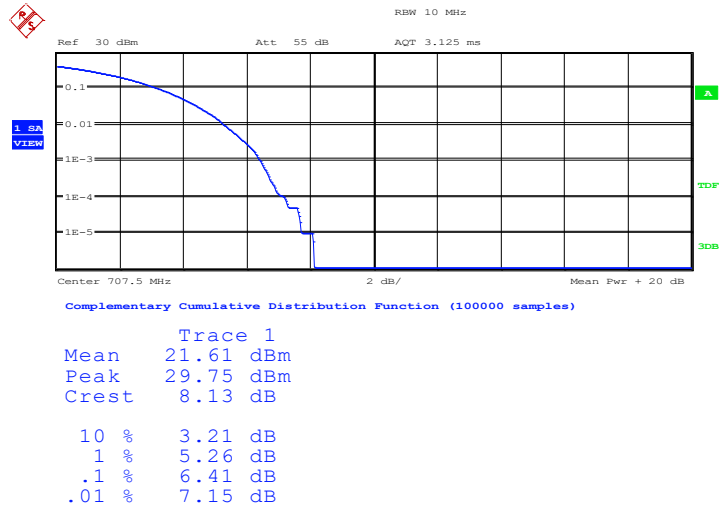
LTE band 12, 10MHz Bandwidth, 16QAM (PAPR)



Date: 24.AUG.2021 17:58:29



LTE band 12, 10MHz Bandwidth, 64QAM (PAPR)

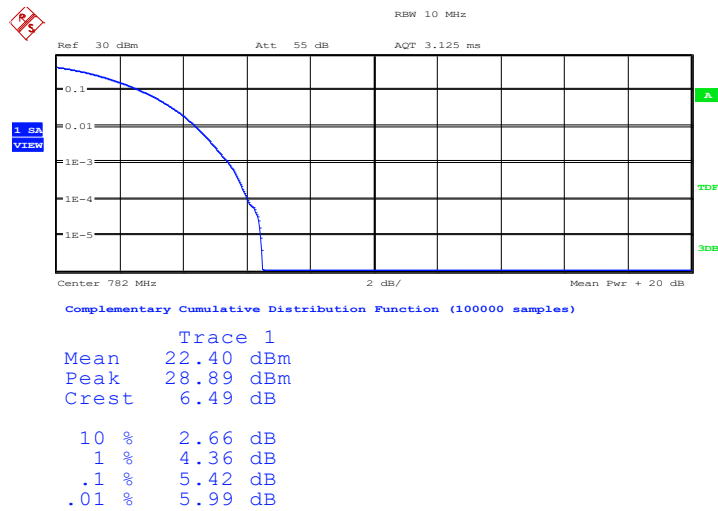


Date: 24.AUG.2021 17:52:17

LTE band 13

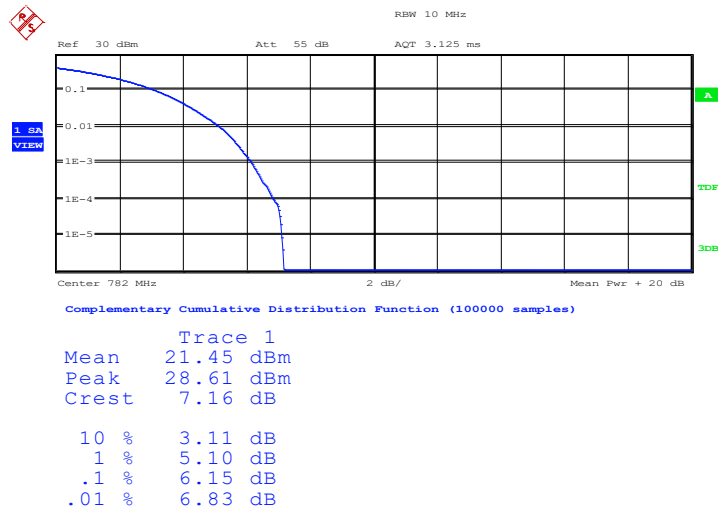
| Frequency(MHz) | Bandwidth(MHz) | PAPR(dB) | | |
|----------------|----------------|----------|-------|-------|
| | | QPSK | 16QAM | 64QAM |
| 782.0 | 10 | 5.42 | 6.15 | 6.19 |

LTE band 13, 10MHz Bandwidth, QPSK (PAPR)



Date: 24.AUG.2021 17:57:28

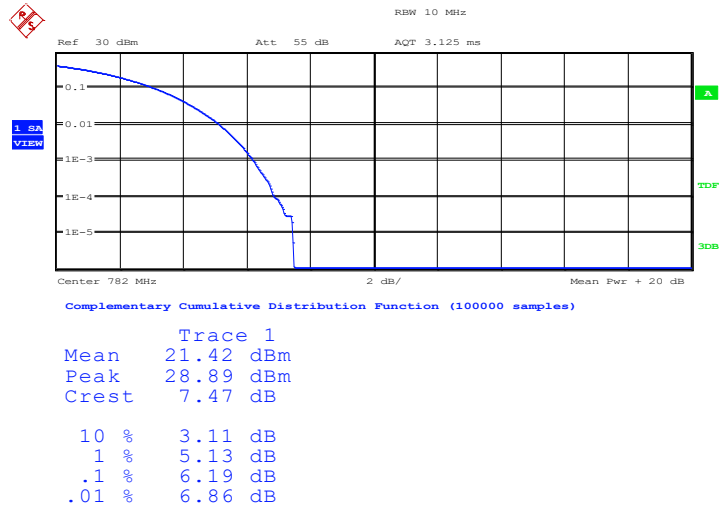
LTE band 13, 10MHz Bandwidth, 16QAM (PAPR)



Date: 24.AUG.2021 17:57:34



LTE band 13, 10MHz Bandwidth, 64QAM (PAPR)



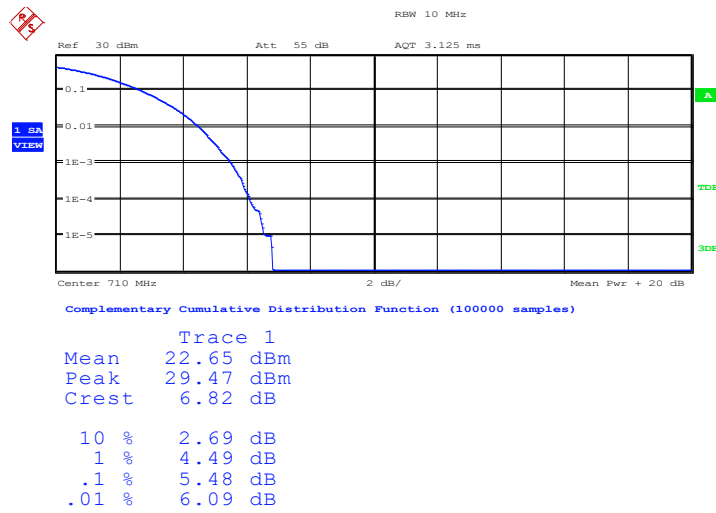
Date: 24.AUG.2021 17:51:28



LTE band 17

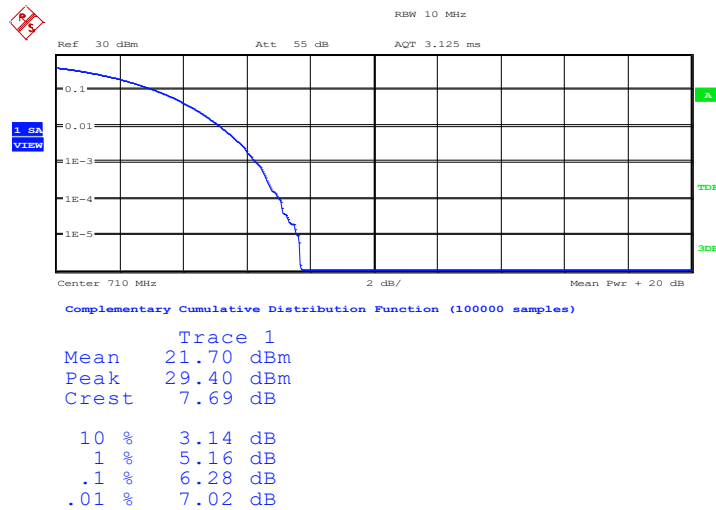
| Frequency(MHz) | Bandwidth(MHz) | PAPR(dB) | | |
|----------------|----------------|----------|-------|-------|
| | | QPSK | 16QAM | 64QAM |
| 710.0 | 10 | 5.48 | 6.28 | 6.31 |

LTE band 17, 10MHz Bandwidth, QPSK (PAPR)



Date: 24.AUG.2021 17:59:17

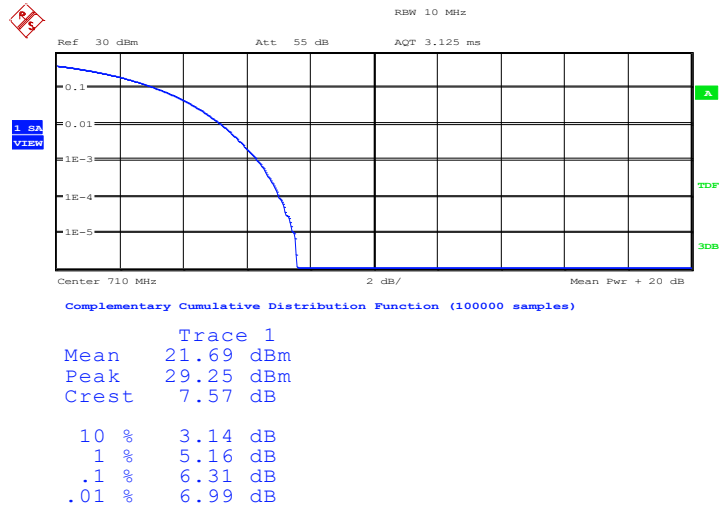
LTE band 17, 10MHz Bandwidth, 16QAM (PAPR)



Date: 24.AUG.2021 17:59:23



LTE band 17, 10MHz Bandwidth, 64QAM (PAPR)

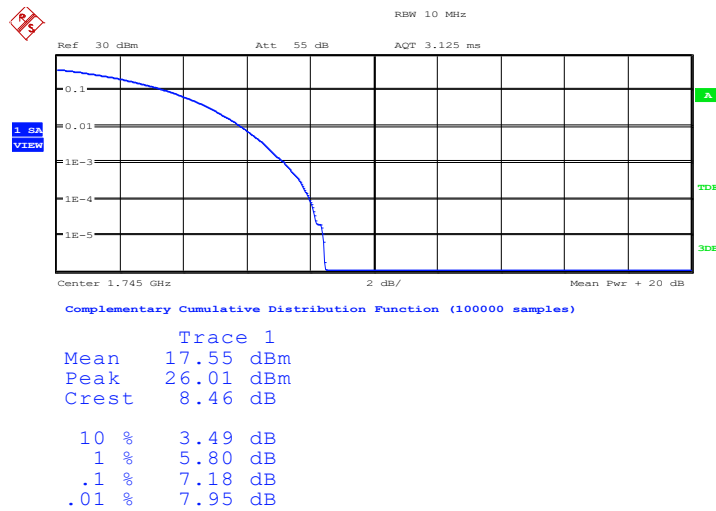


Date: 24.AUG.2021 17:53:03

LTE band 66

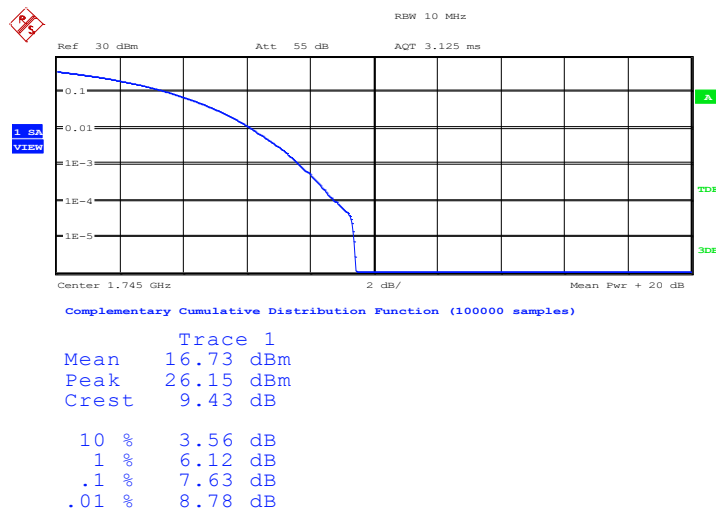
| Frequency(MHz) | Bandwidth(MHz) | PAPR(dB) | | |
|----------------|----------------|----------|-------|-------|
| | | QPSK | 16QAM | 64QAM |
| 1745.0 | 20 | 7.18 | 7.63 | 7.66 |

LTE band 66, 20MHz Bandwidth, QPSK (PAPR)



Date: 24.AUG.2021 18:08:37

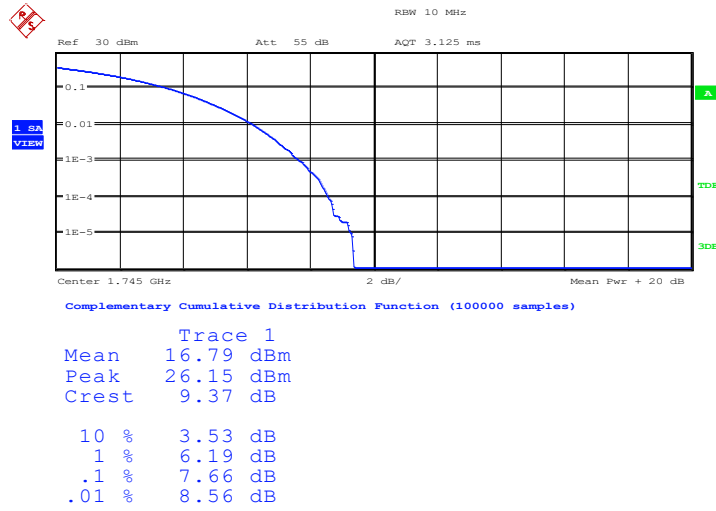
LTE band 66, 20MHz Bandwidth, 16QAM (PAPR)



Date: 24.AUG.2021 18:08:43



LTE band 66, 20MHz Bandwidth, 64QAM (PAPR)



Date: 24.AUG.2021 18:09:59

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

END OF REPORT