

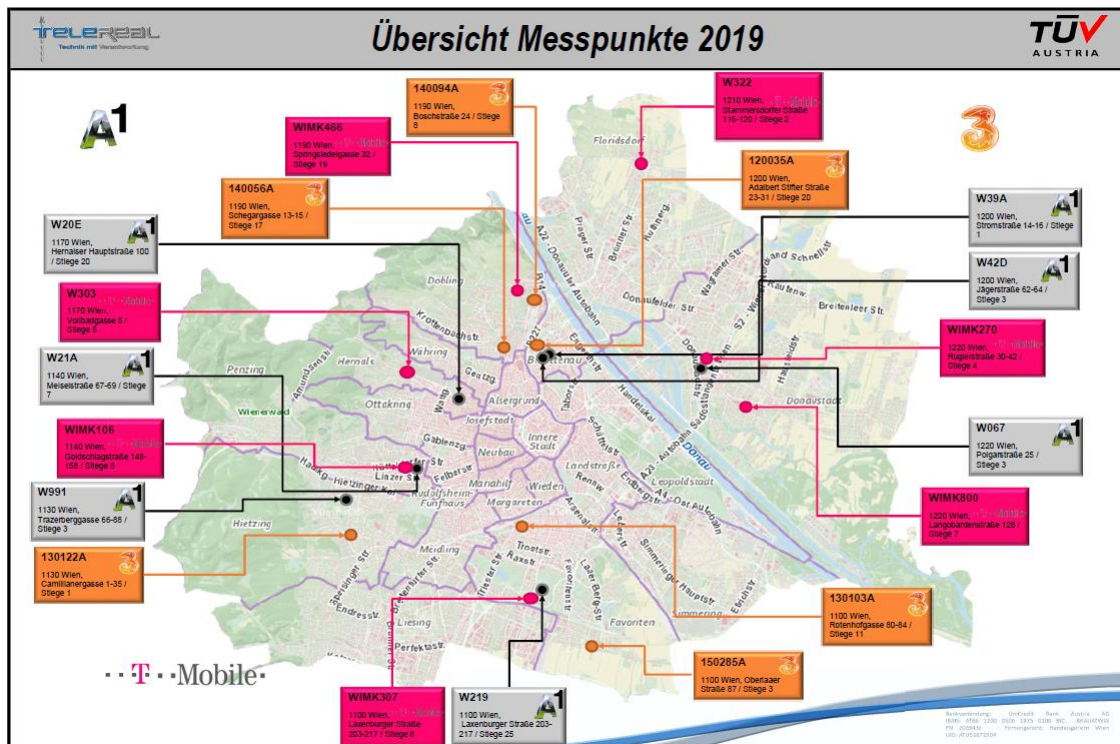


Mobilfunkbewertung 2019

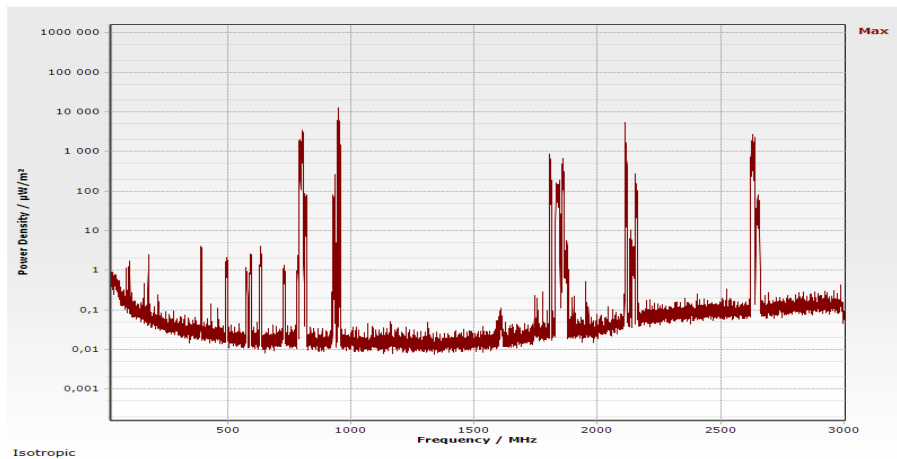
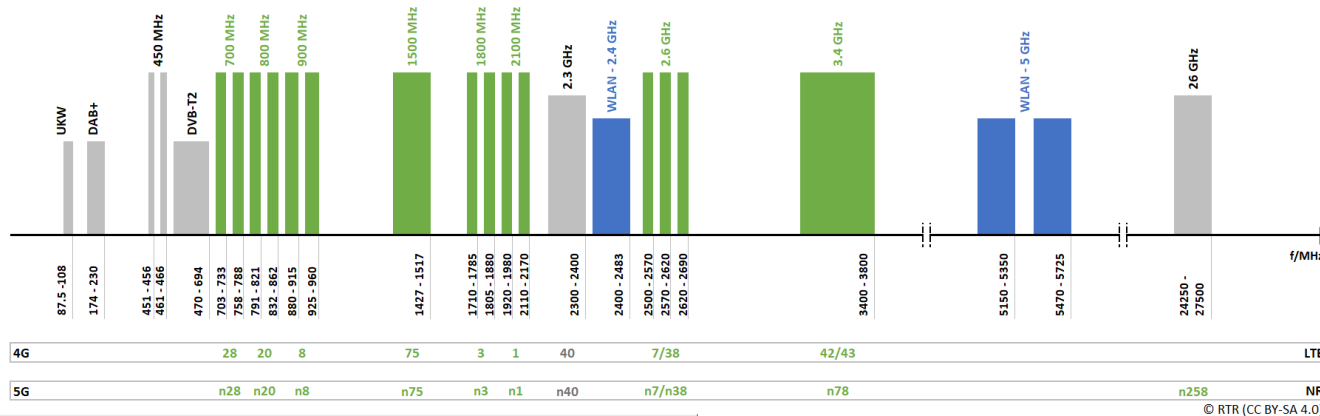
SEW/ MFK Wien

14.01.2020

Übersicht – Messreihe 2019

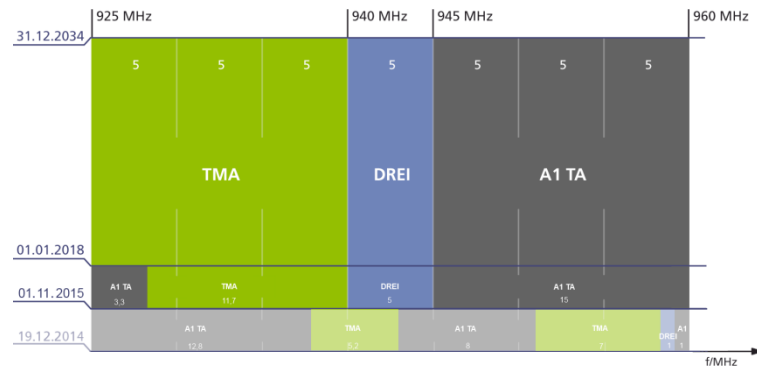
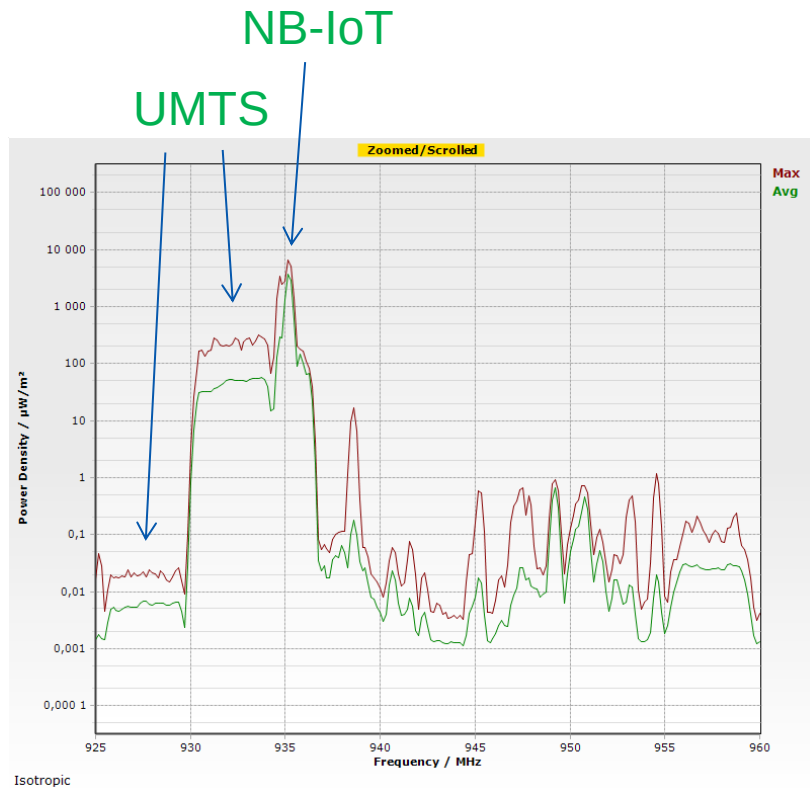


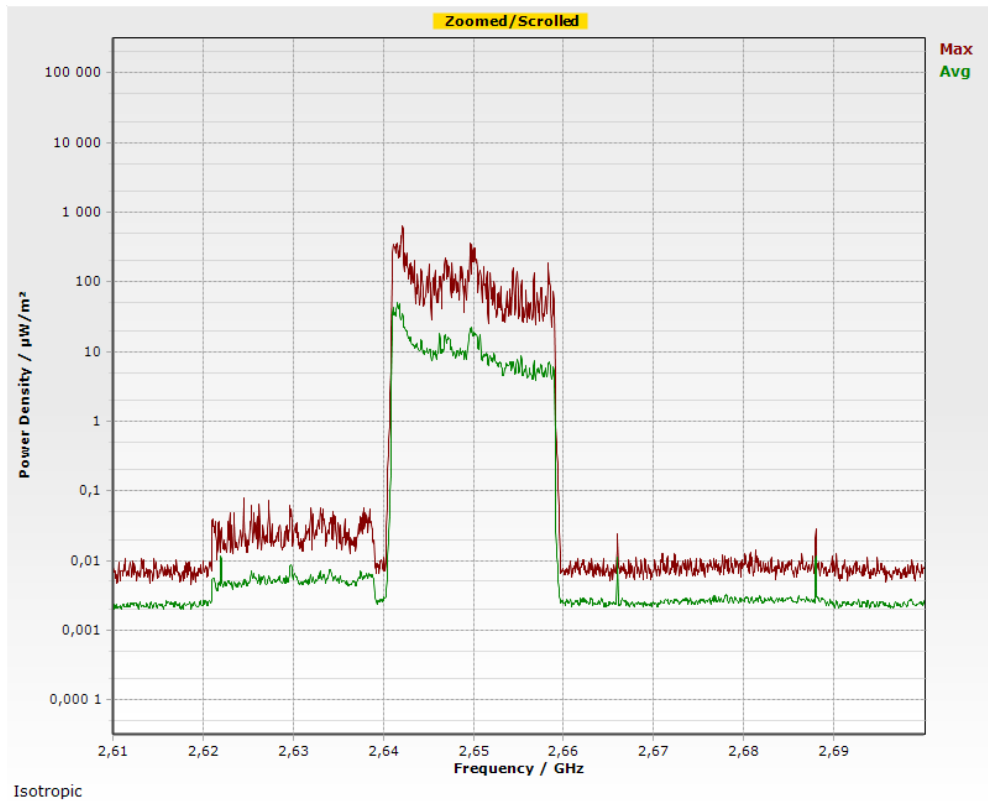
Messpunkt	Messwert Bandselektiv [mW/m ²]	Bewertet - Gebäudedämpf. [mW/m ²]
1	51,390	5,139
2	1,438	0,144
3	42,780	4,278
4	19,240	1,924
5	4,776	0,478
6	50,200	5,020
7	43,840	4,384
8	244,400	24,440
9	27,950	2,795
10	20,510	2,051
11	43,360	4,336
12	39,070	3,907
13	7,576	0,758
14	0,646	0,065
15	0,764	0,076
16	1,844	0,184
17	6,705	0,671
18	17,520	1,752
19	31,370	3,137
20	16,350	1,635
21	70,110	7,011
MAX	244,400	24,440
MW	35,326	3,533



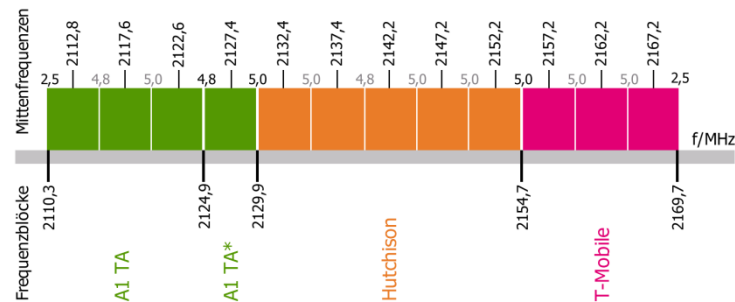
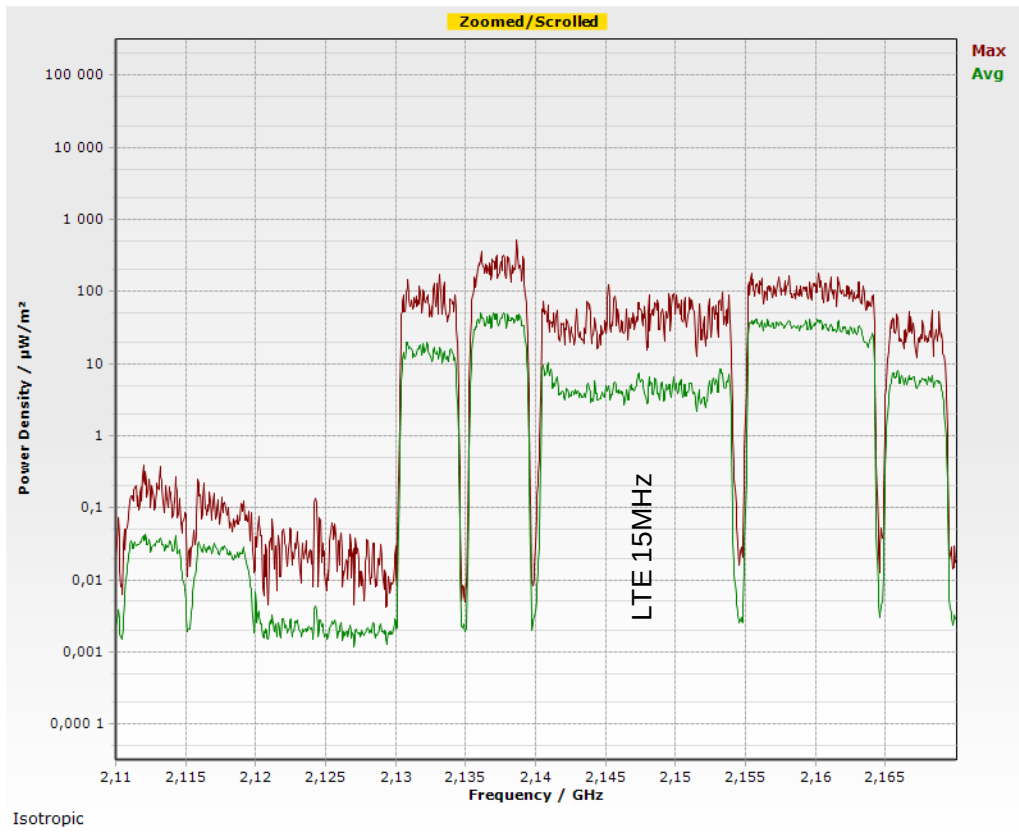


900 MHz Nach dem Refarming = aktuell



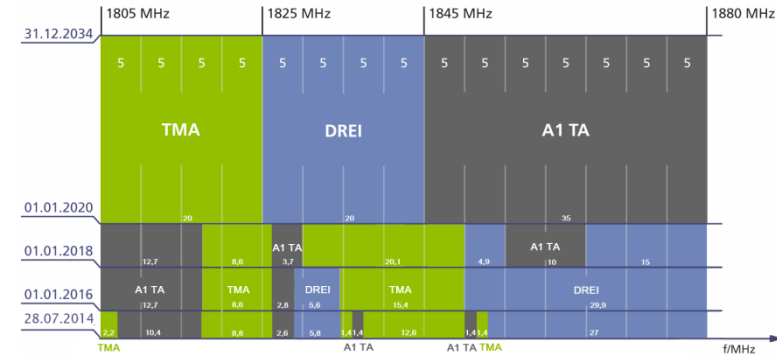
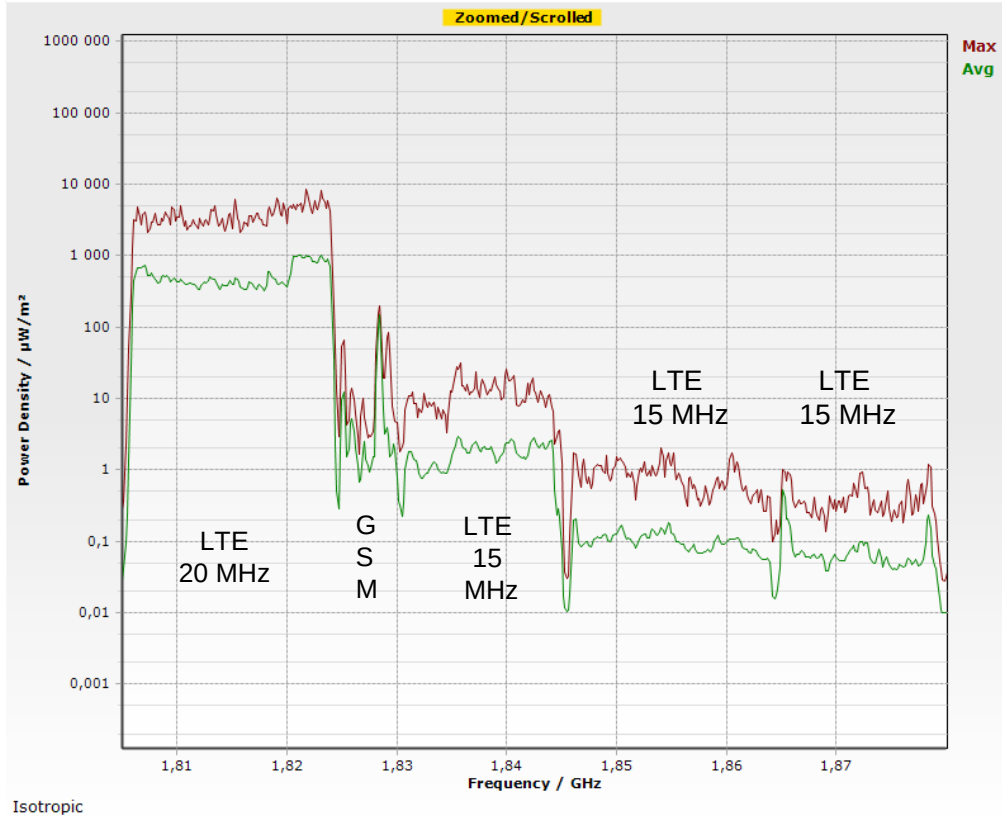


2100 MHz Nach dem Refarming = aktuell

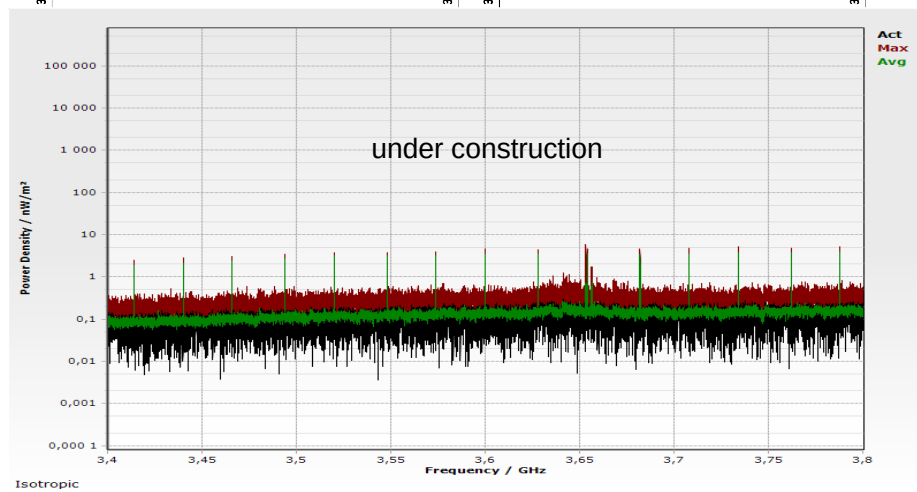
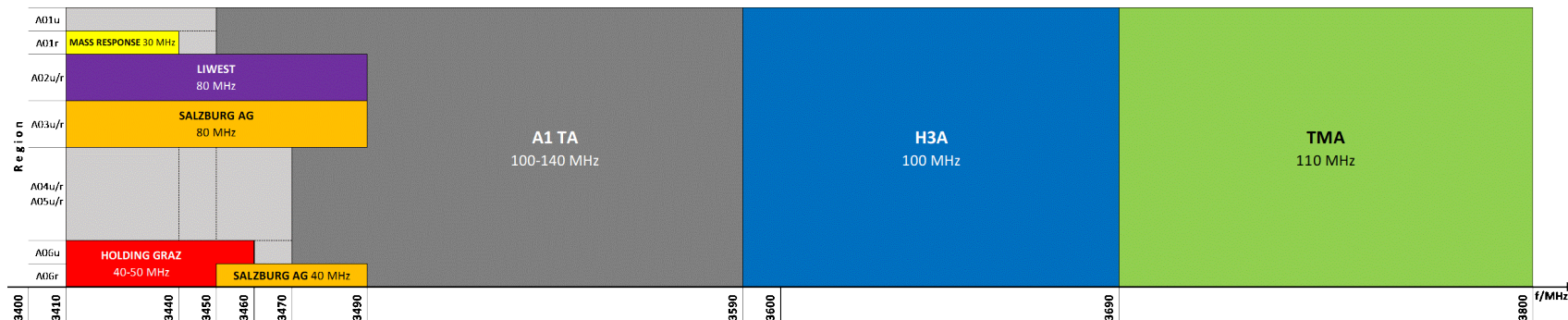




1800 MHz Nach dem Refarming = aktuell



5G NR

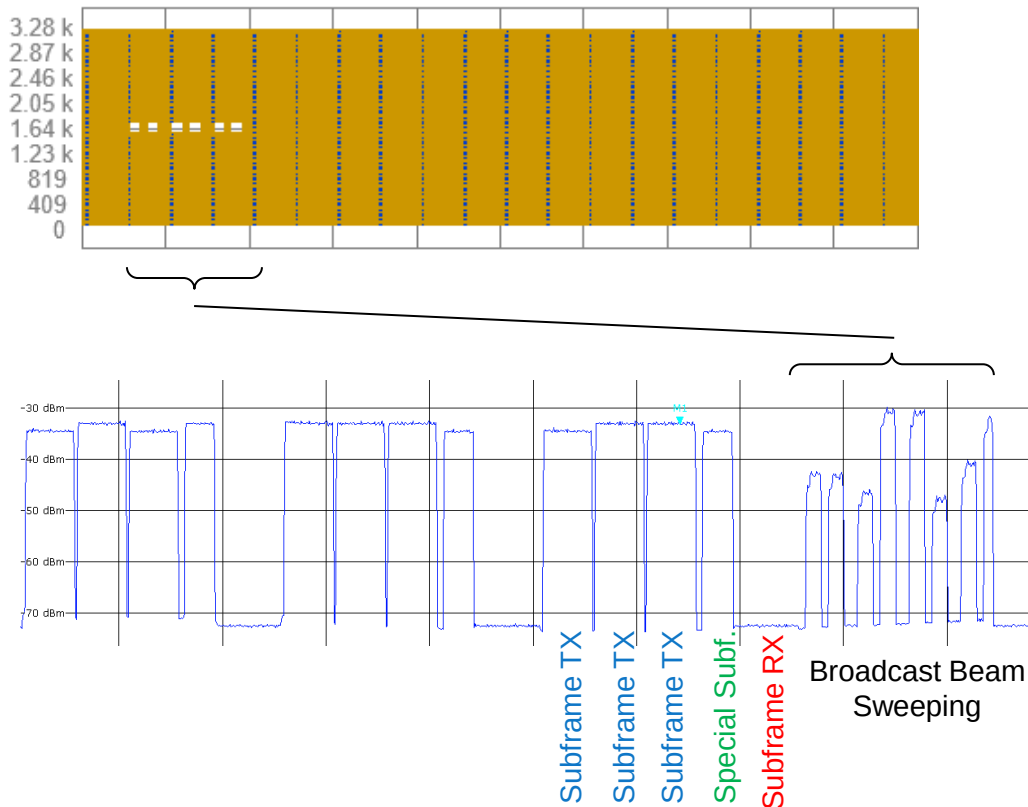


Grafik: Keysight

Grafik: Y. Huo, X. Cong and W. Xu, „5G Cellular User Equipment: From Theory to Practical Hardware Design,” IEEE Access, 2017.

5G NR Frame Structure

Scale/Div 409 subcarriers



Flexible UL/DL Zuordnung

- ✓ 4G hatte noch 7 verschiedene Uplink-Downlink Konfigurationen
Worst Case: 8 Downlink, 1 Uplink, 1 Special Subframe
- ✓ 5G erlaubt flexible Zuordnung (derzeit 61 Möglichkeiten)
Worst Case: Alles Downlink

	Symbol Number in a slot													
Format	0	1	2	3	4	5	6	7	8	9	10	11	12	13
0	D	D	D	D	D	D	D	D	D	D	D	D	D	D
1	U	U	U	U	U	U	U	U	U	U	U	U	U	U
2	F	F	F	F	F	F	F	F	F	F	F	F	F	F
3	D	D	D	D	D	D	D	D	D	D	D	D	D	F
4	D	D	D	D	D	D	D	D	D	D	D	D	F	F
5	D	D	D	D	D	D	D	D	D	D	D	F	F	F
6	D	D	D	D	D	D	D	D	D	D	F	F	F	F
7	D	D	D	D	D	D	D	D	D	F	F	F	F	F
8	F	F	F	F	F	F	F	F	F	F	F	F	F	U
9	F	F	F	F	F	F	F	F	F	F	F	F	U	U
10	F	U	U	U	U	U	U	U	U	U	U	U	U	U
11	F	F	U	U	U	U	U	U	U	U	U	U	U	U
12	F	F	F	U	U	U	U	U	U	U	U	U	U	U
13	F	F	F	F	U	U	U	U	U	U	U	U	U	U
14	F	F	F	F	F	U	U	U	U	U	U	U	U	U
15	F	F	F	F	F	F	U	U	U	U	U	U	U	U
16	D	F	F	F	F	F	F	F	F	F	F	F	F	F
17	D	D	F	F	F	F	F	F	F	F	F	F	F	F
18	D	D	D	F	F	F	F	F	F	F	F	F	F	F