

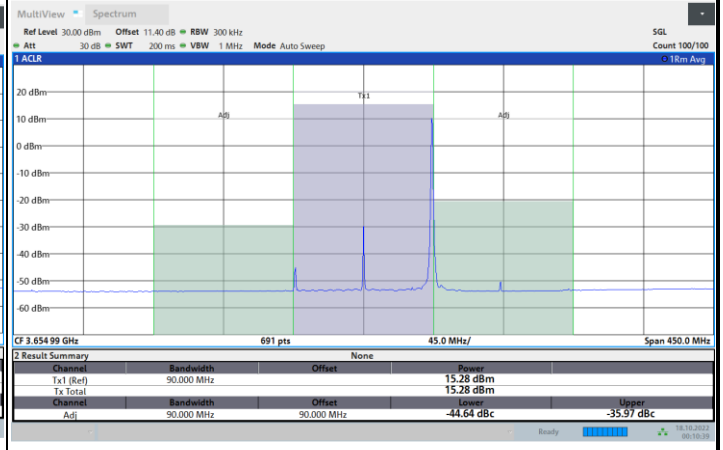
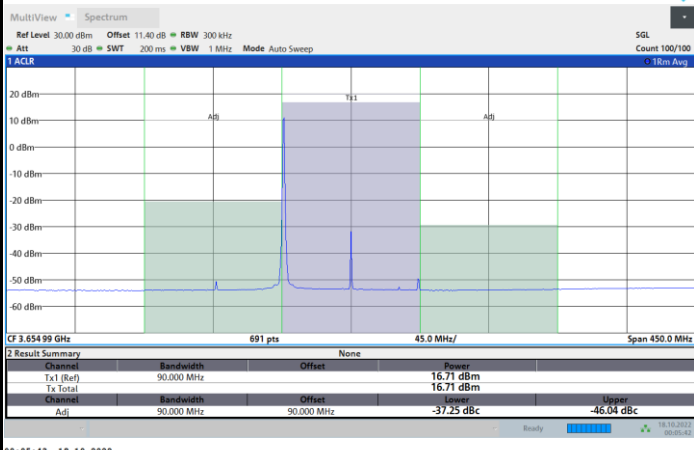


FR1 N77 / 90MHz / DFT-S OFDM / 16QAM

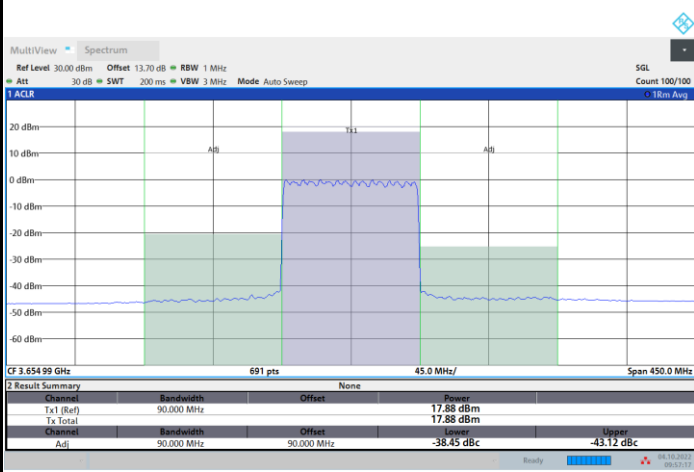
Highest Channel

1RB0

1RBmax



Full RB



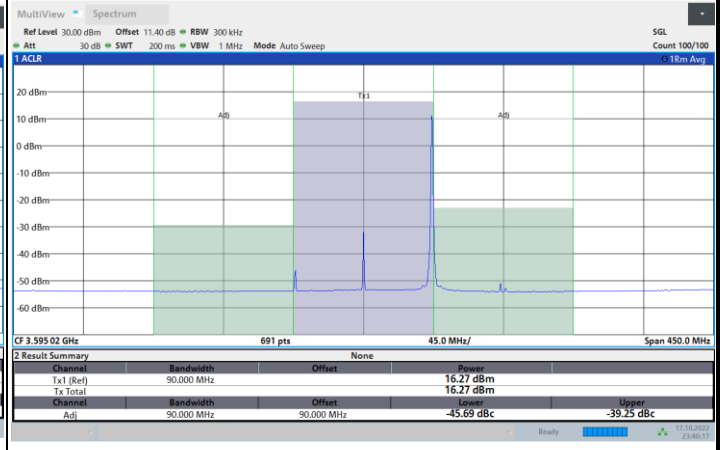
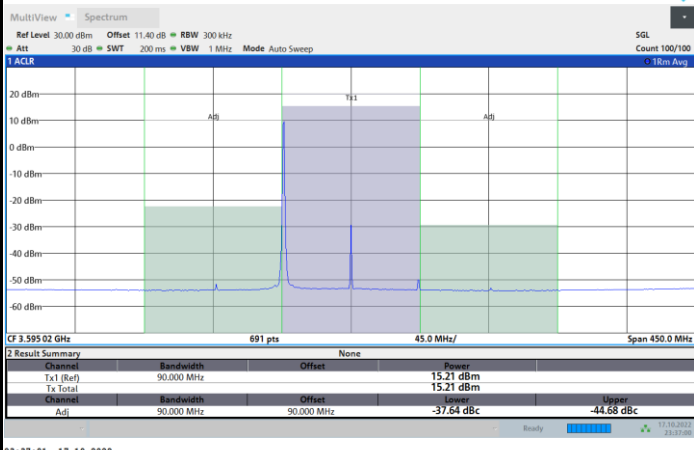


FR1 N77 / 90MHz / DFT-S OFDM / 64QAM

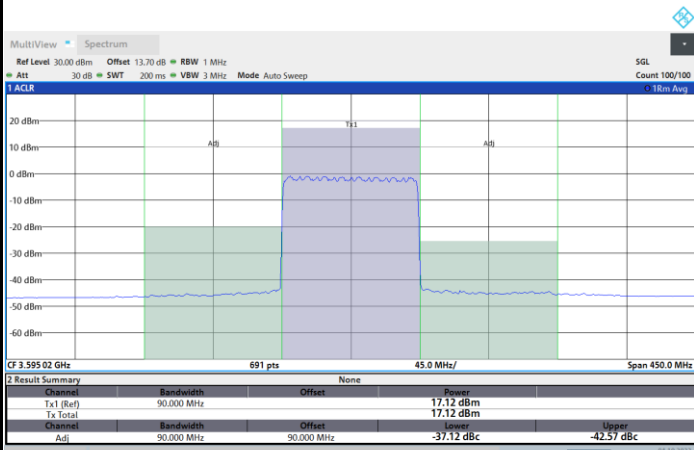
Lowest Channel

1RB0

1RBmax



Full RB



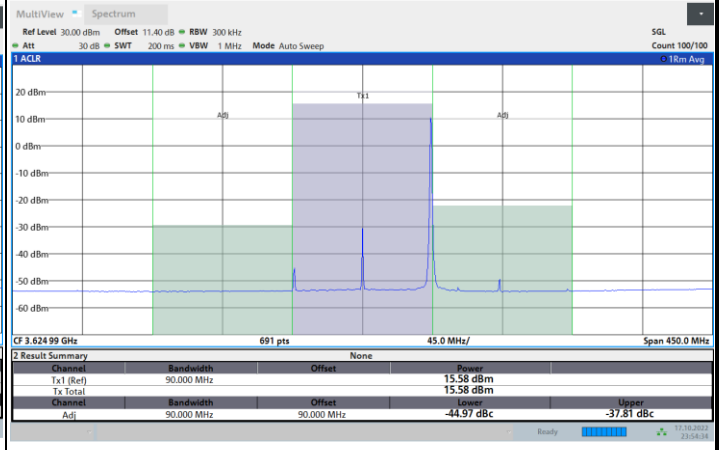
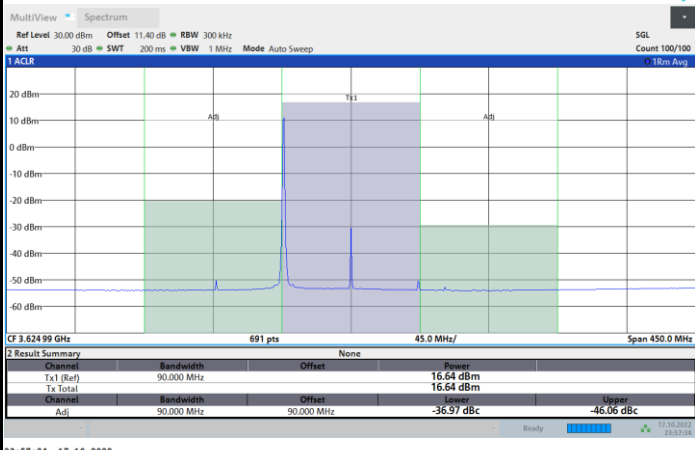


FR1 N77 / 90MHz / DFT-S OFDM / 64QAM

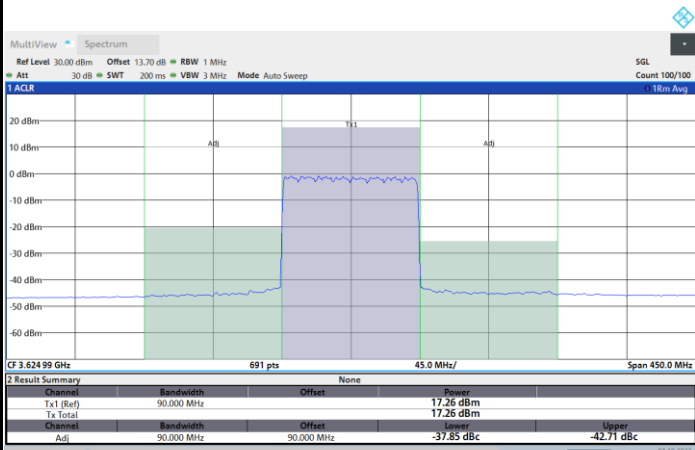
Middle Channel

1RB0

1RBmax



Full RB



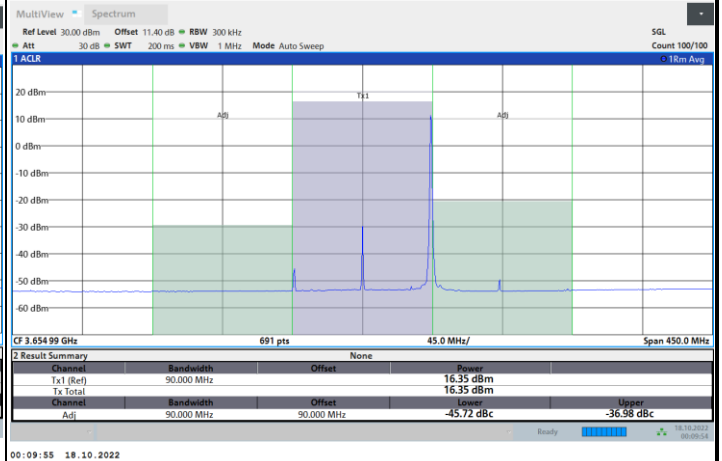
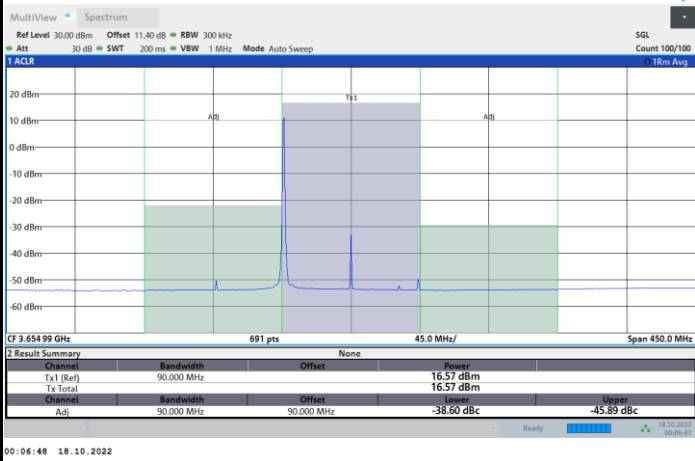


FR1 N77 / 90MHz / DFT-S OFDM / 64QAM

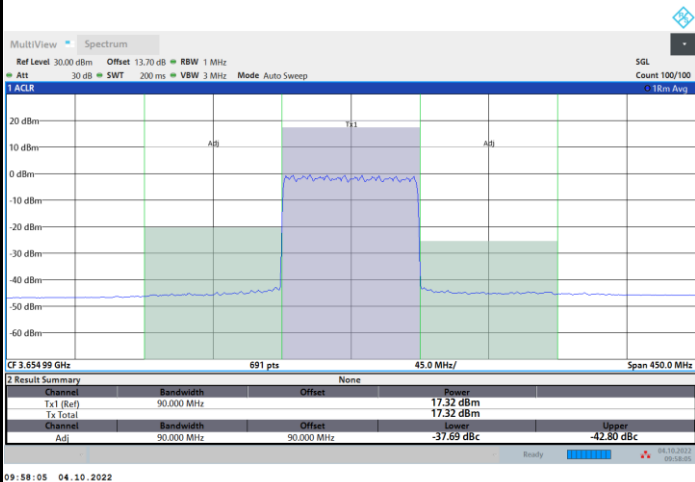
Highest Channel

1RB0

1RBmax



Full RB



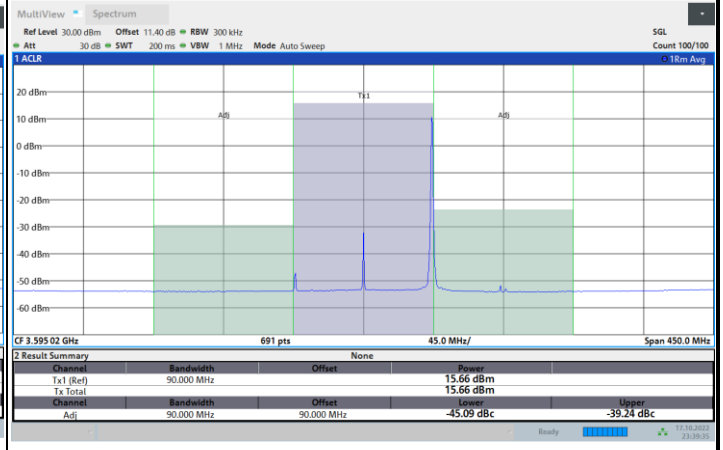
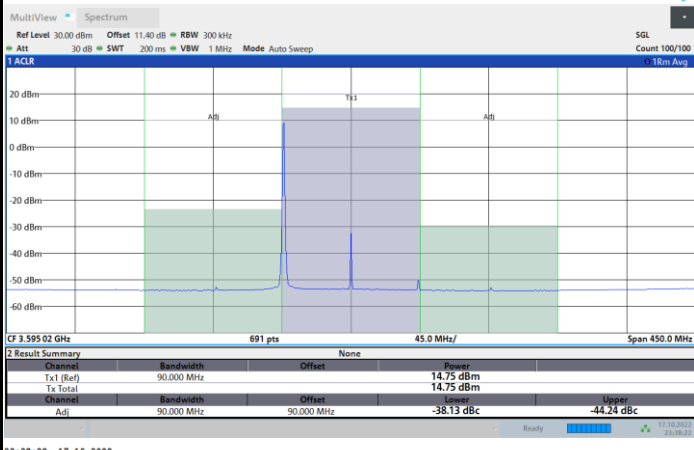


FR1 N77 / 90MHz / DFT-S OFDM / 256QAM

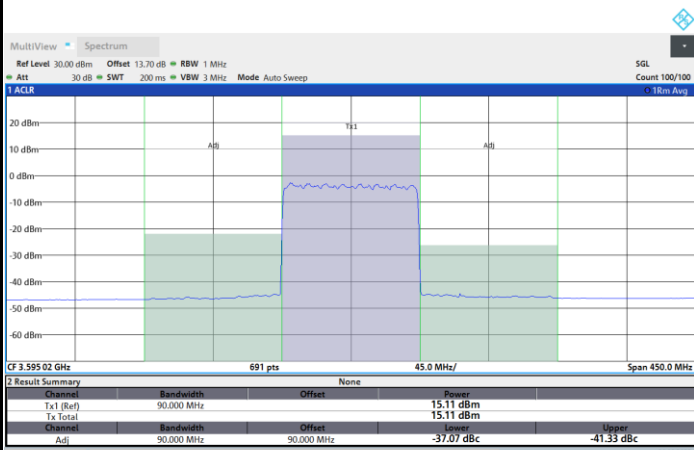
Lowest Channel

1RB0

1RBmax



Full RB



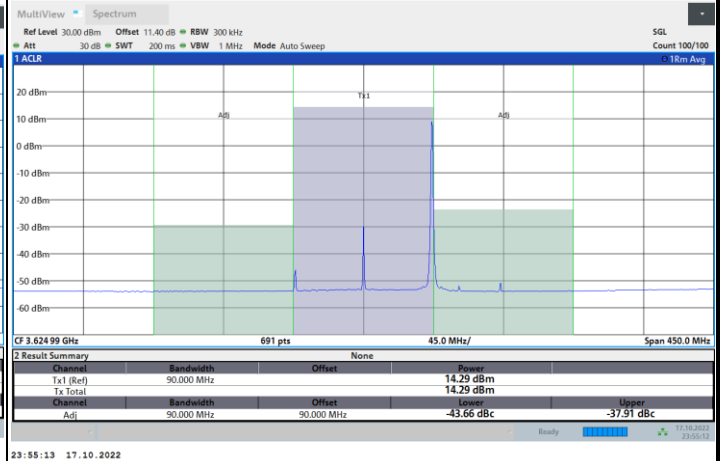
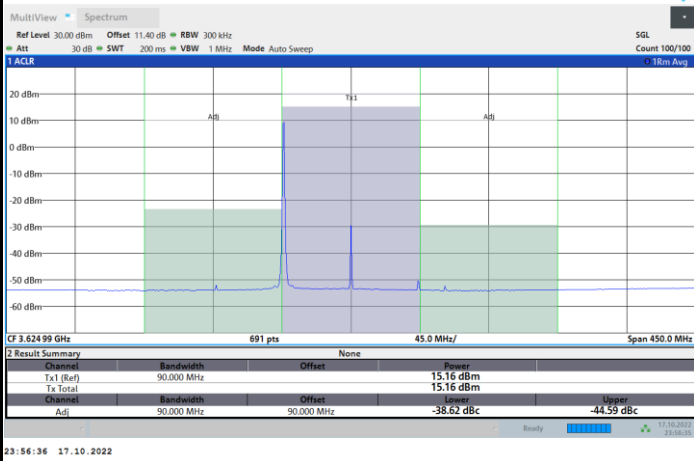


FR1 N77 / 90MHz / DFT-S OFDM / 256QAM

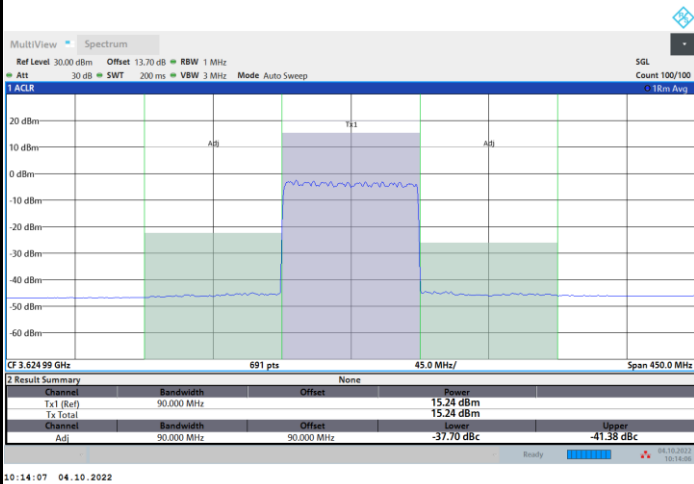
Middle Channel

1RB0

1RBmax



Full RB



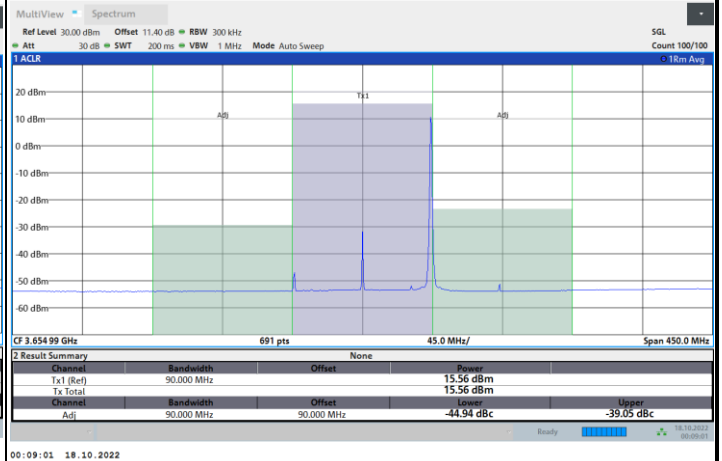
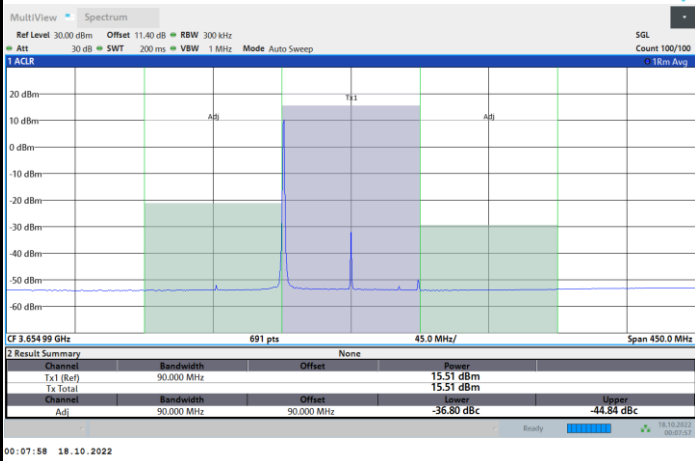


FR1 N77 / 90MHz / DFT-S OFDM / 256QAM

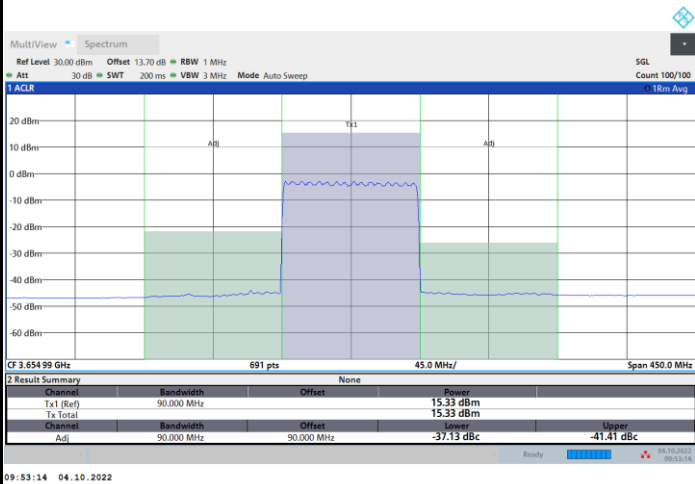
Highest Channel

1RB0

1RBmax



Full RB



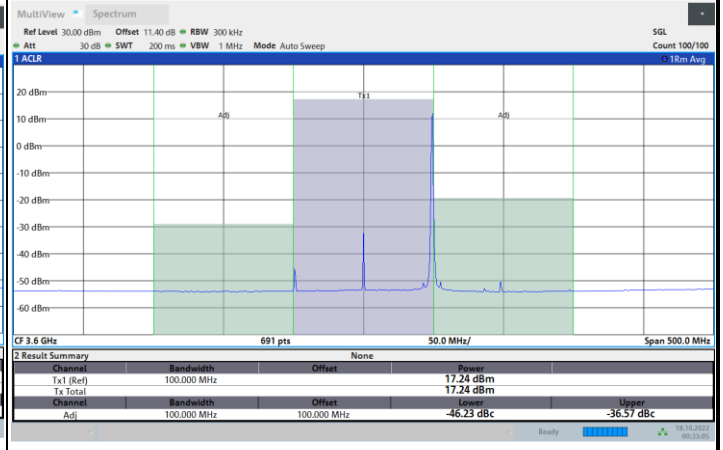
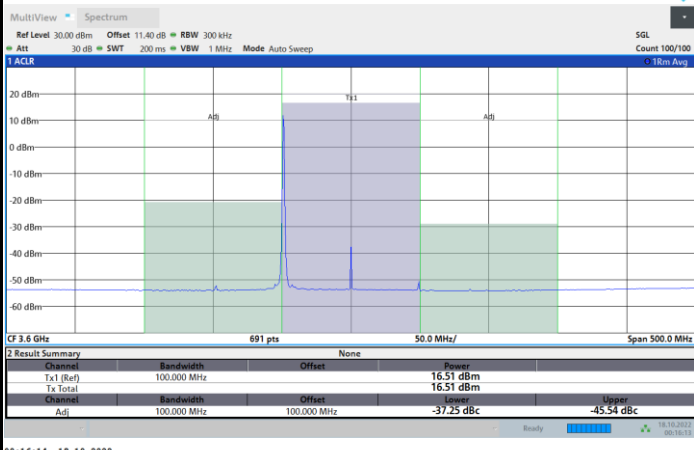


FR1 N77 / 100MHz / DFT-S OFDM / PI/2 BPSK

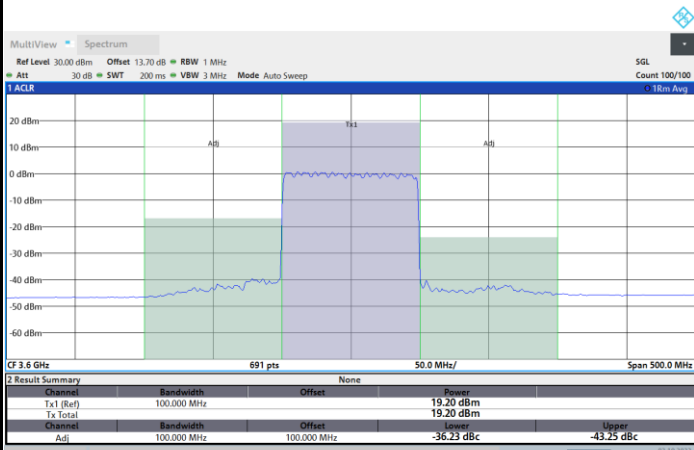
Lowest Channel

1RB0

1RBmax



Full RB



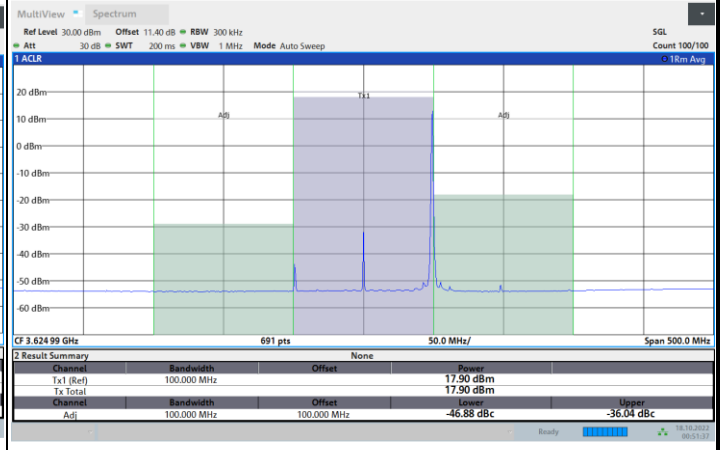
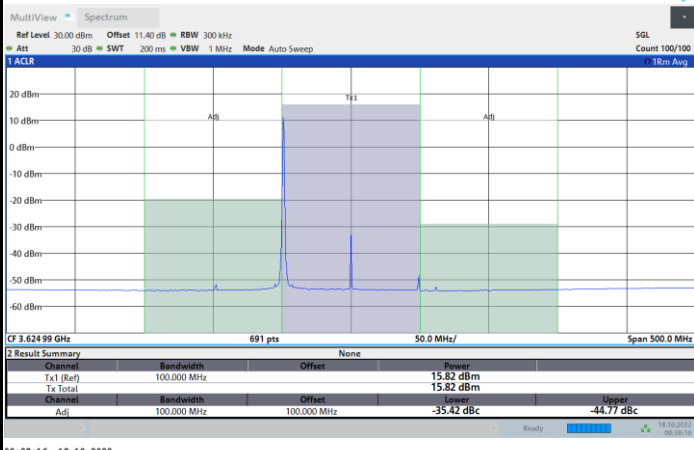


FR1 N77 / 100MHz / DFT-S OFDM / PI/2 BPSK

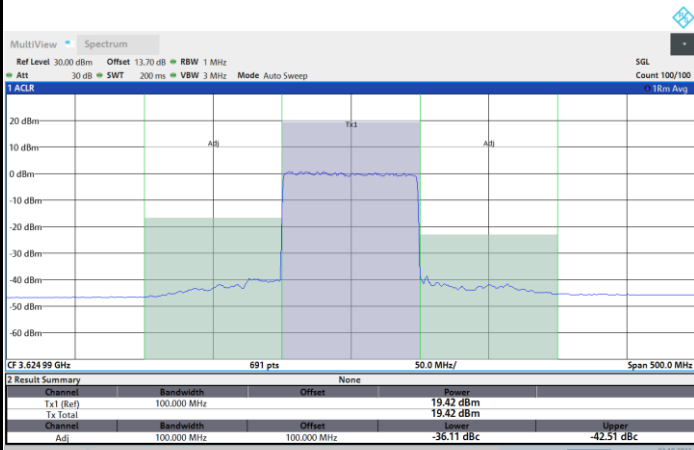
Middle Channel

1RB0

1RBmax



Full RB



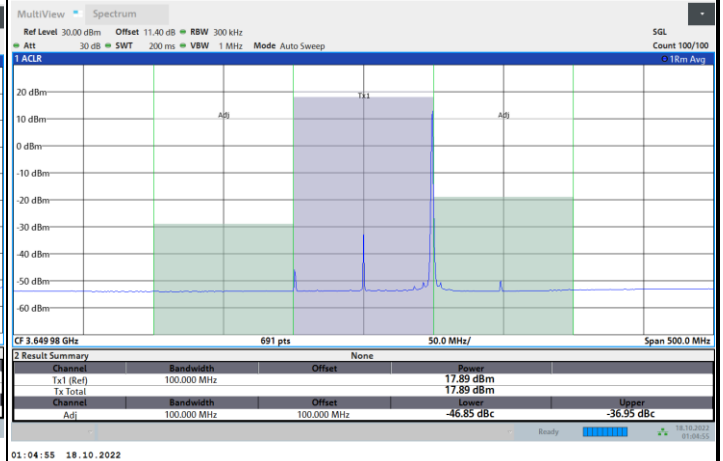
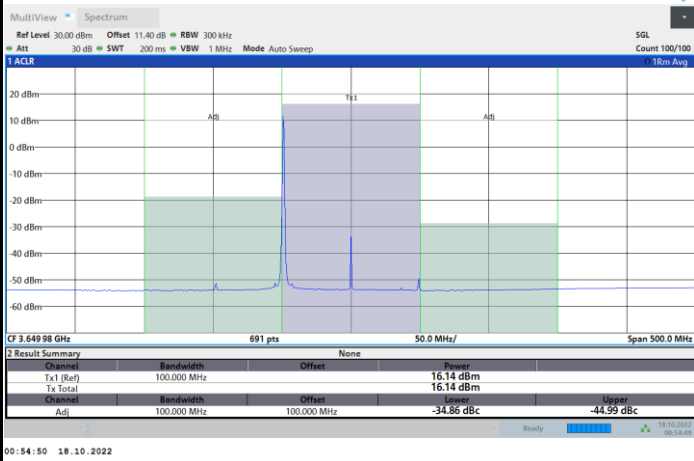


FR1 N77 / 100MHz / DFT-S OFDM / PI/2 BPSK

Highest Channel

1RB0

1RBmax



Full RB



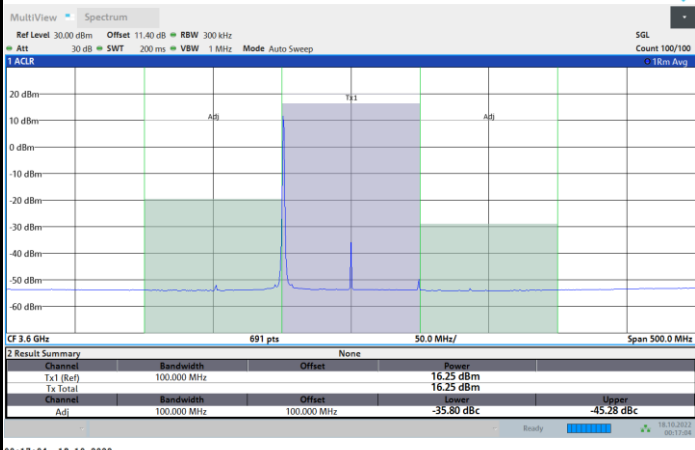


FR1 N77 / 100MHz / DFT-S OFDM / QPSK

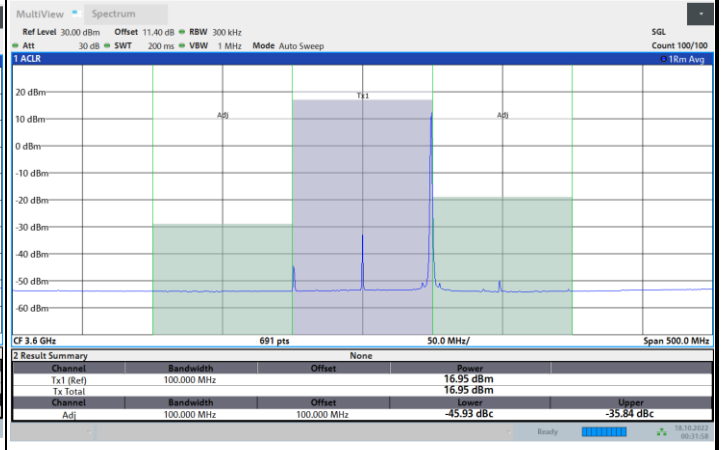
Lowest Channel

1RB0

1RBmax

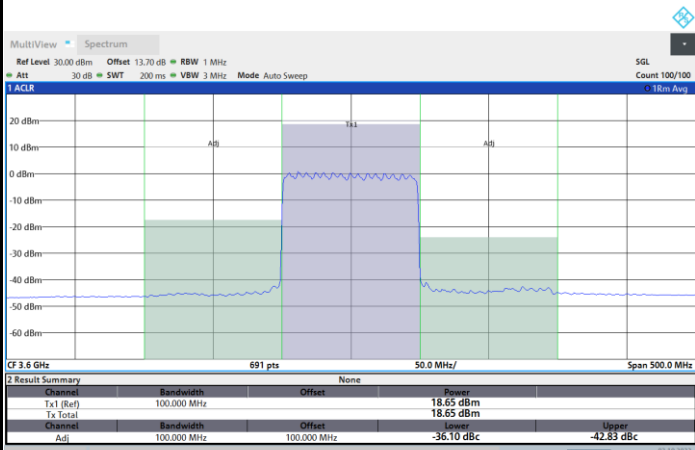


00:17:04 18.10.2022



00:31:59 18.10.2022

Full RB



16:05:51 03.10.2022

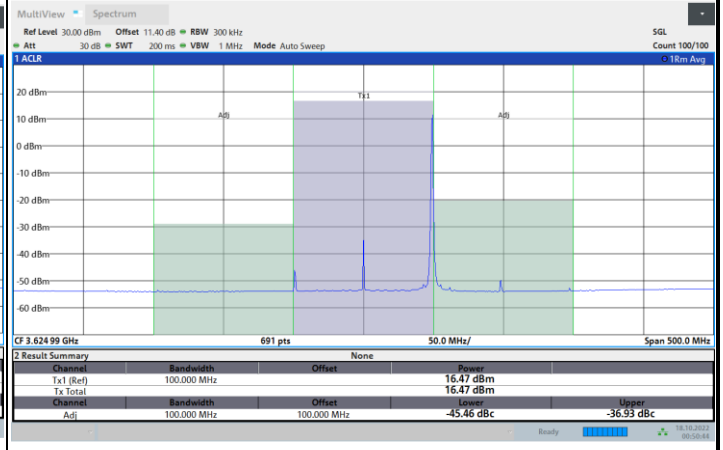


FR1 N77 / 100MHz / DFT-S OFDM / QPSK

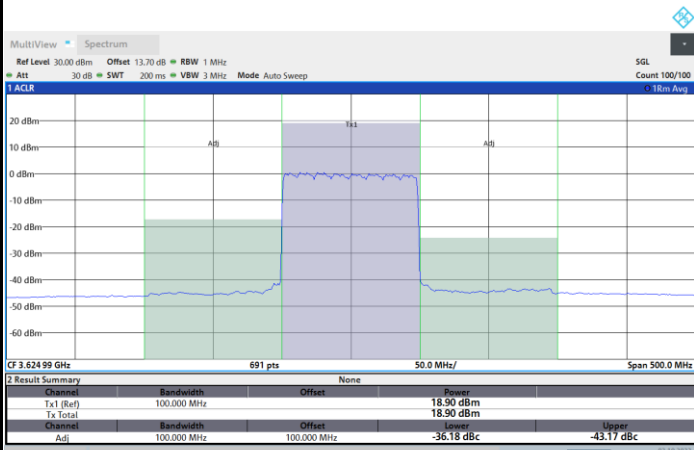
Middle Channel

1RB0

1RBmax



Full RB



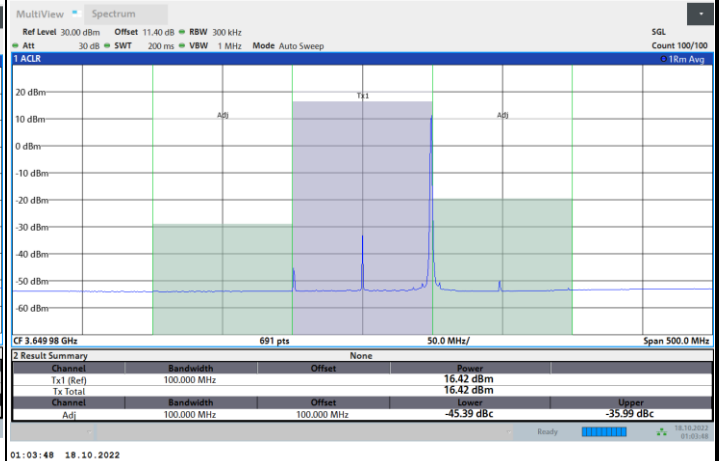
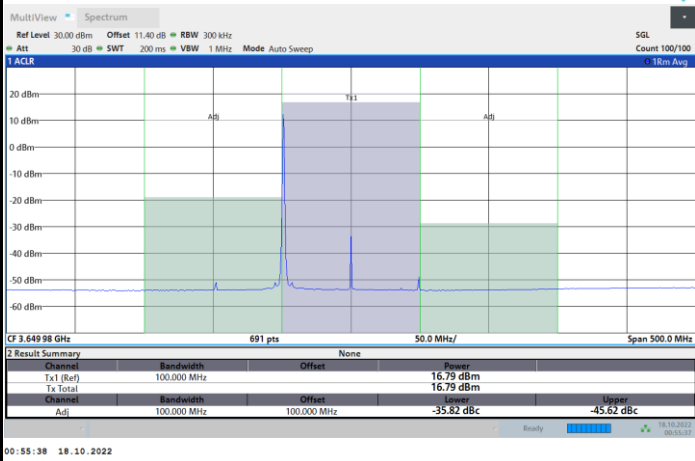


FR1 N77 / 100MHz / DFT-S OFDM / QPSK

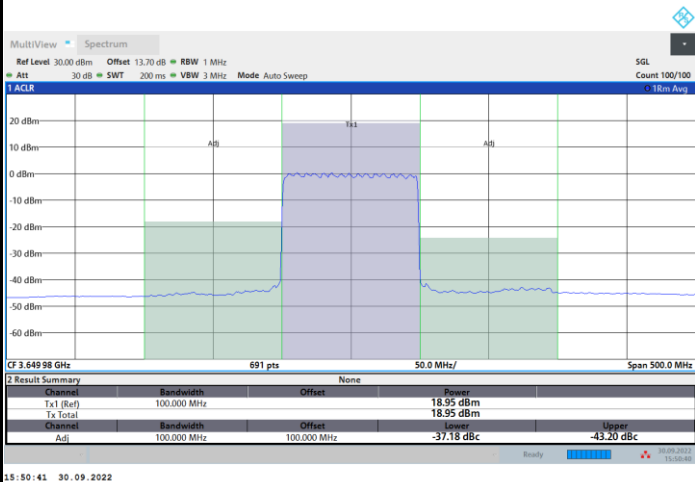
Highest Channel

1RB0

1RBmax



Full RB



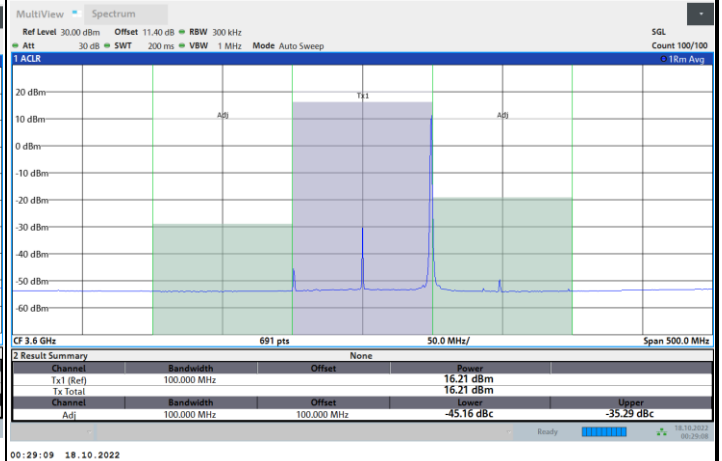
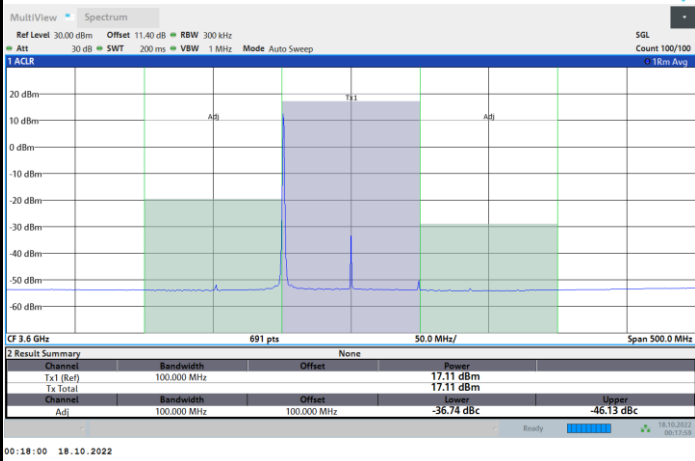


FR1 N77 / 100MHz / DFT-S OFDM / 16QAM

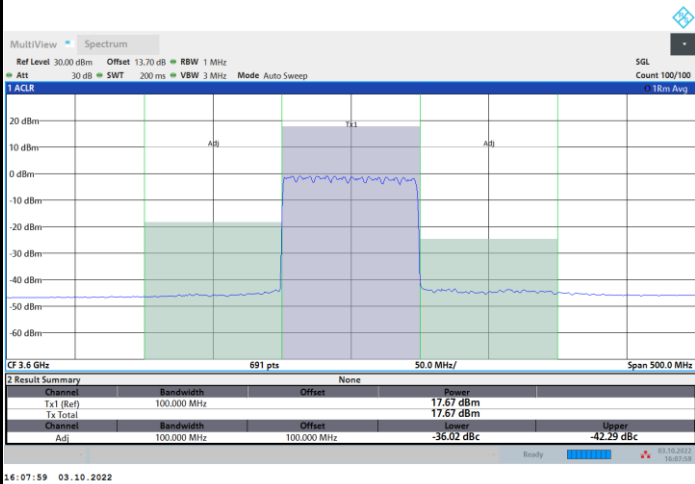
Lowest Channel

1RB0

1RBmax



Full RB



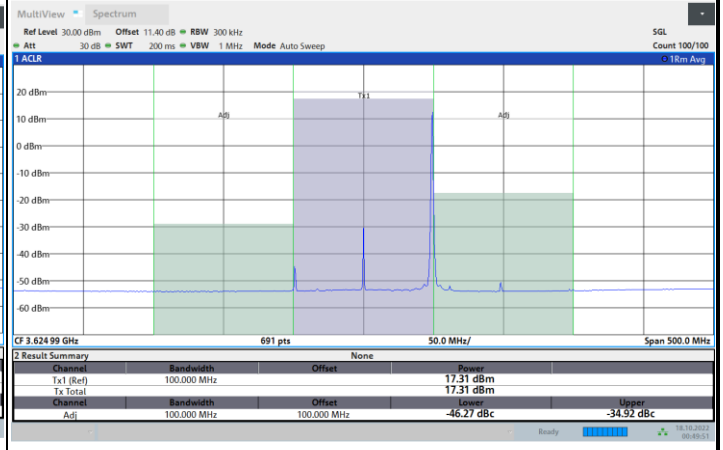
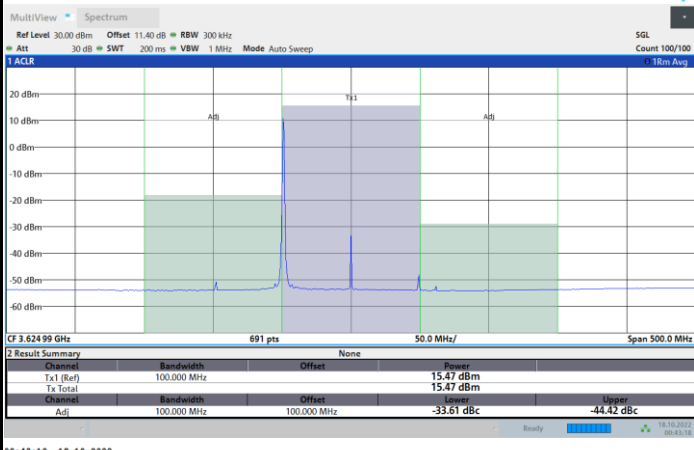


FR1 N77 / 100MHz / DFT-S OFDM / 16QAM

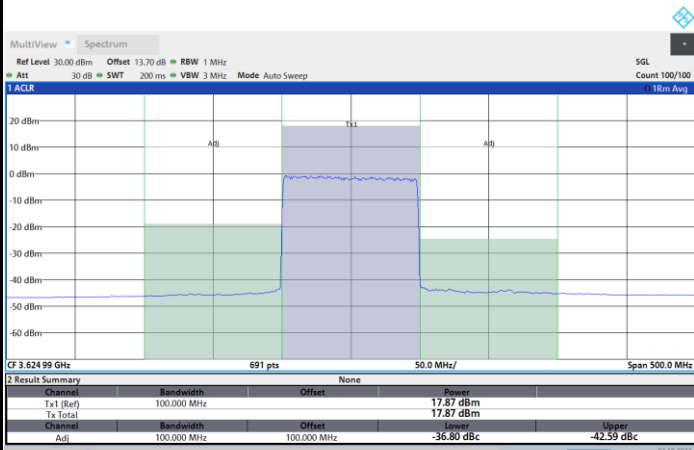
Middle Channel

1RB0

1RBmax



Full RB



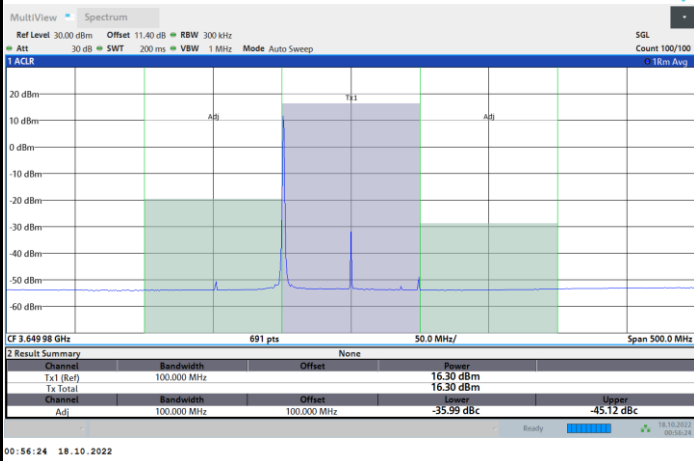


FR1 N77 / 100MHz / DFT-S OFDM / 16QAM

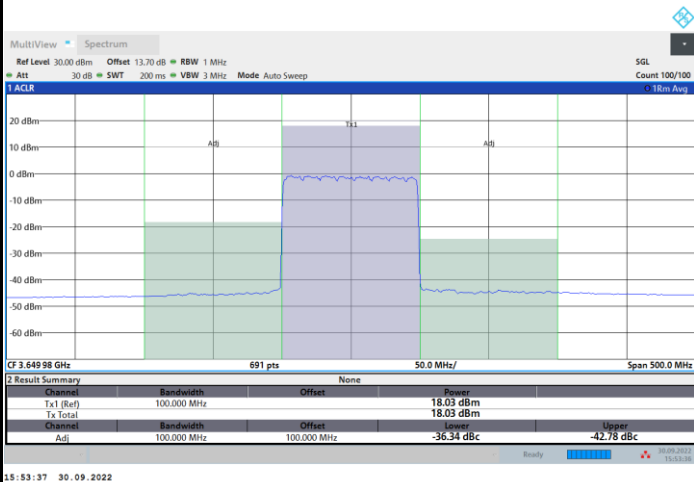
Highest Channel

1RB0

1RBmax



Full RB



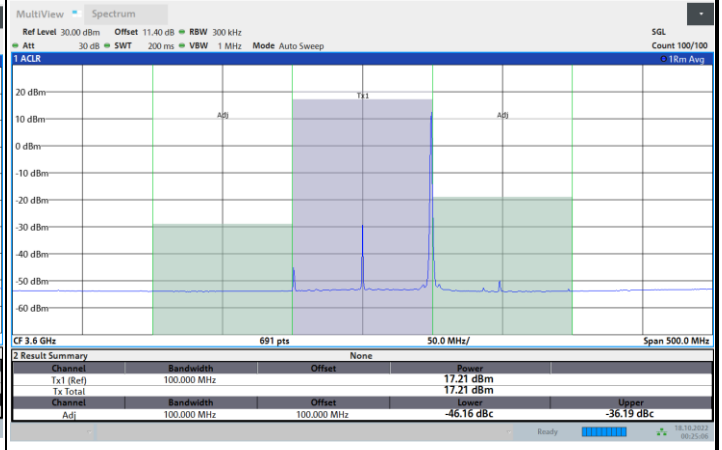
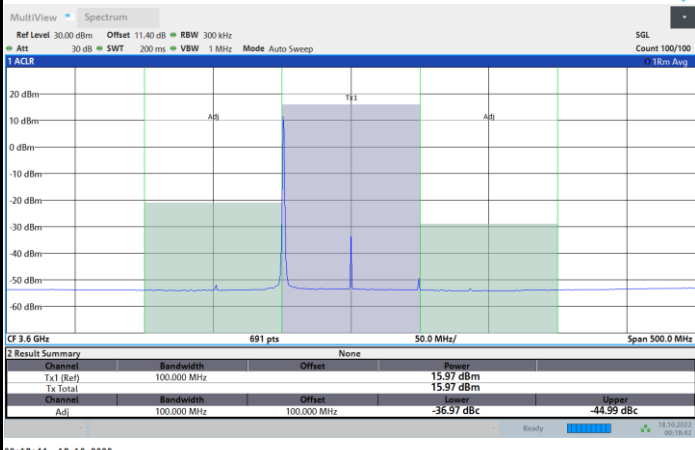


FR1 N77 / 100MHz / DFT-S OFDM / 64QAM

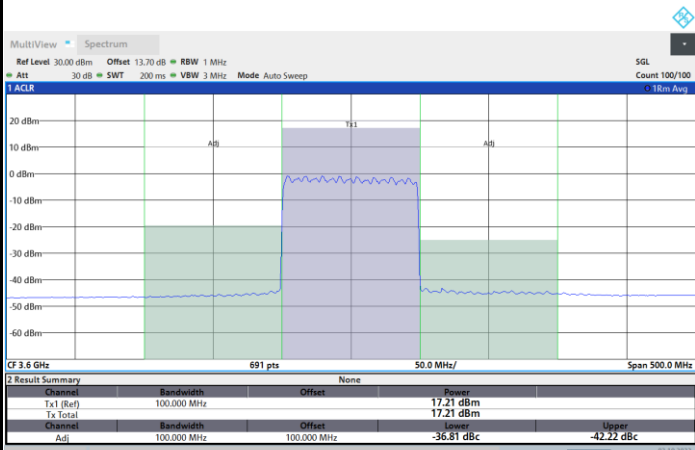
Lowest Channel

1RB0

1RBmax



Full RB



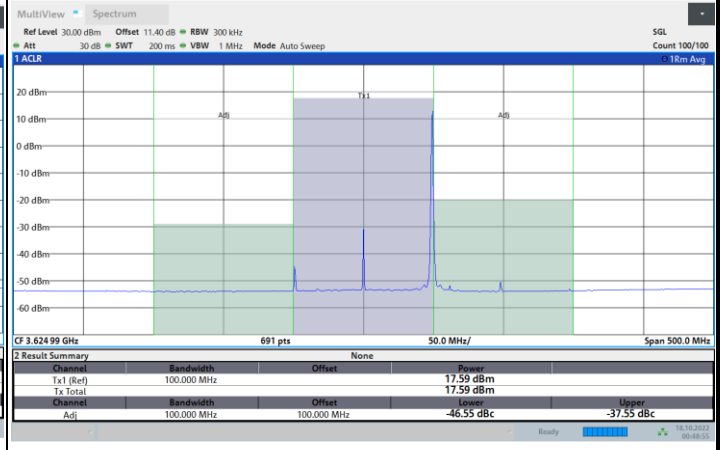
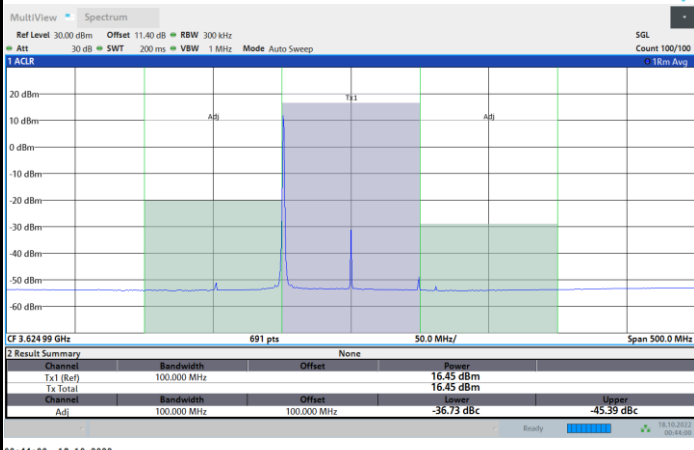


FR1 N77 / 100MHz / DFT-S OFDM / 64QAM

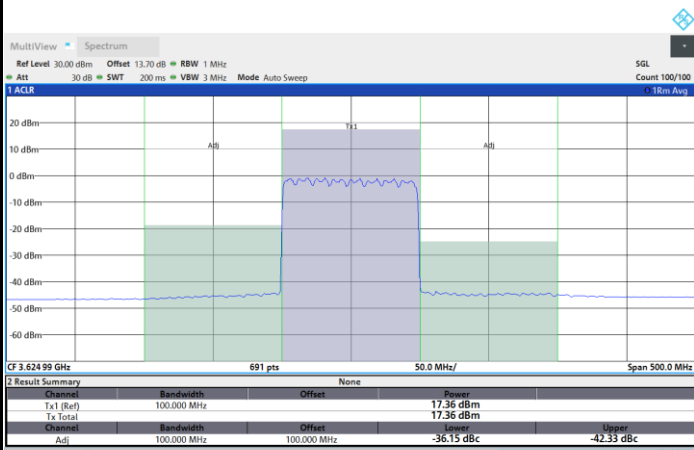
Middle Channel

1RB0

1RBmax



Full RB



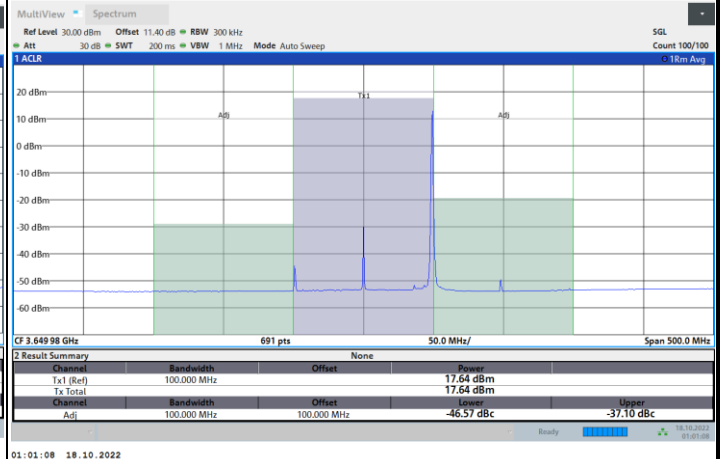
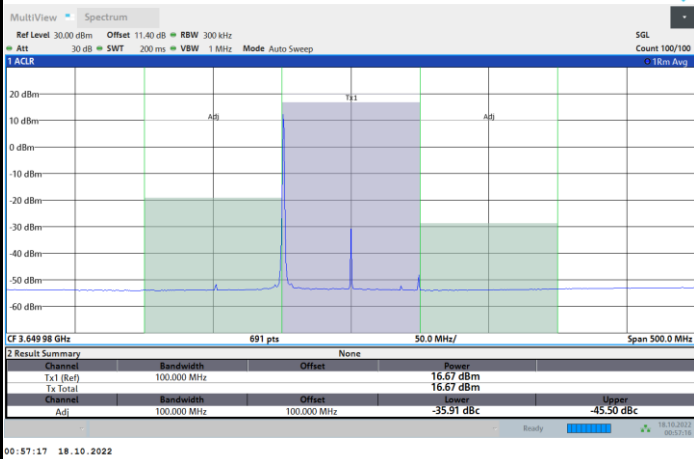


FR1 N77 / 100MHz / DFT-S OFDM / 64QAM

Highest Channel

1RB0

1RBmax



Full RB



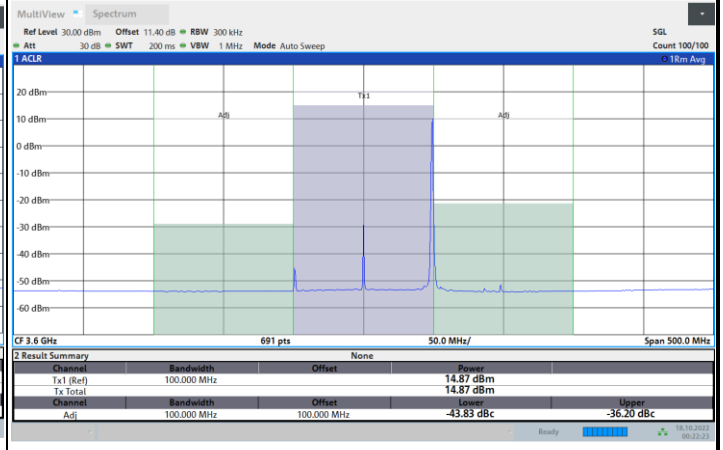
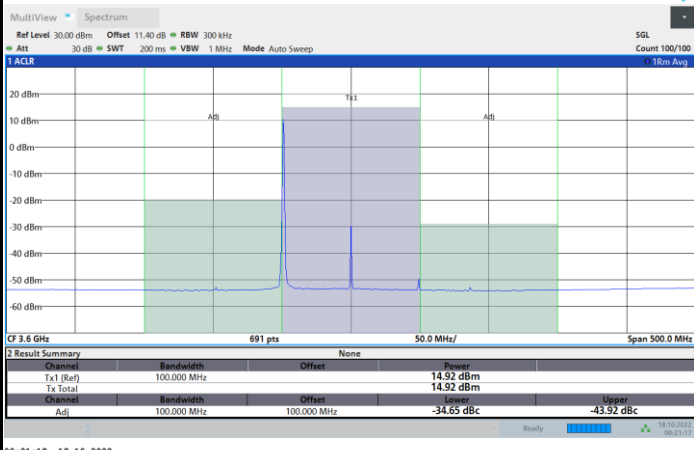


FR1 N77 / 100MHz / DFT-S OFDM / 256QAM

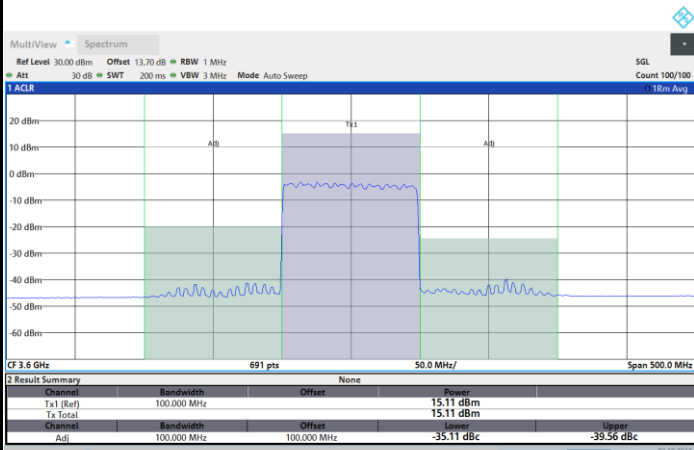
Lowest Channel

1RB0

1RBmax



Full RB



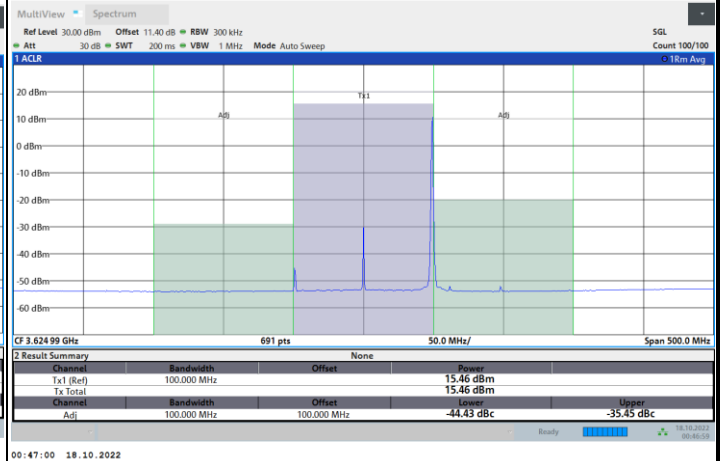
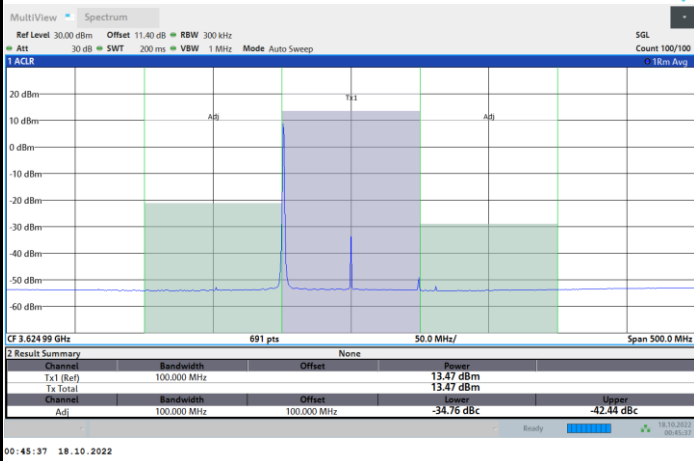


FR1 N77 / 100MHz / DFT-S OFDM / 256QAM

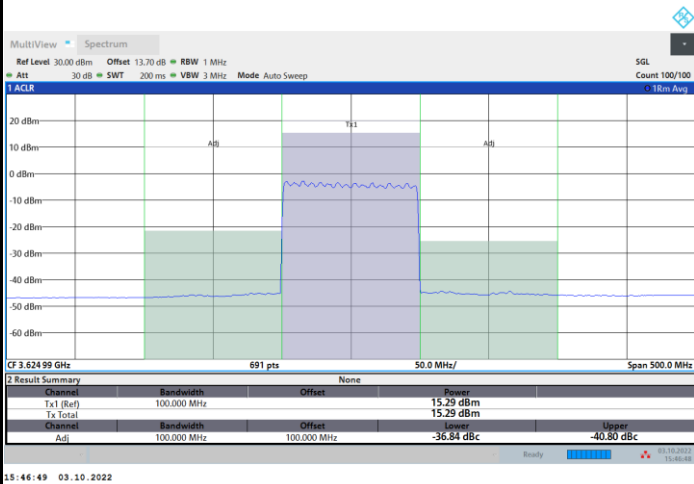
Middle Channel

1RB0

1RBmax



Full RB



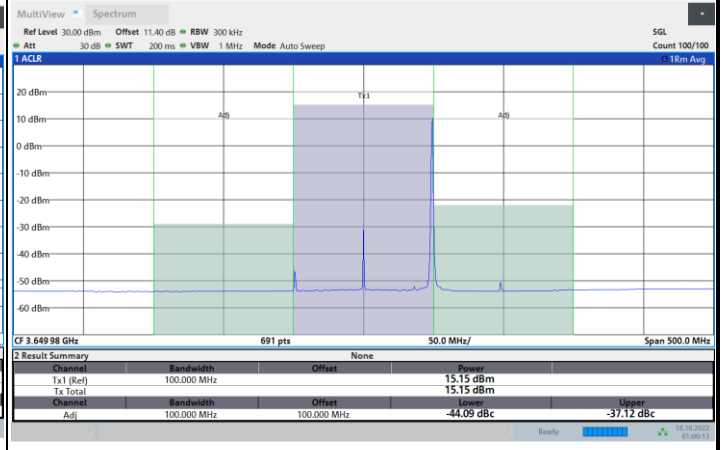
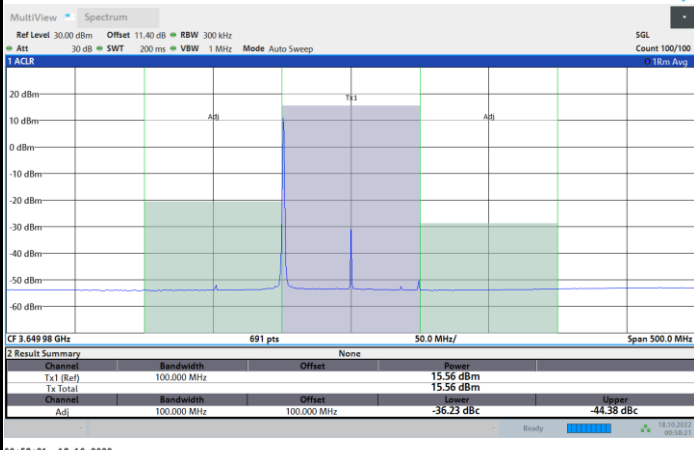


FR1 N77 / 100MHz / DFT-S OFDM / 256QAM

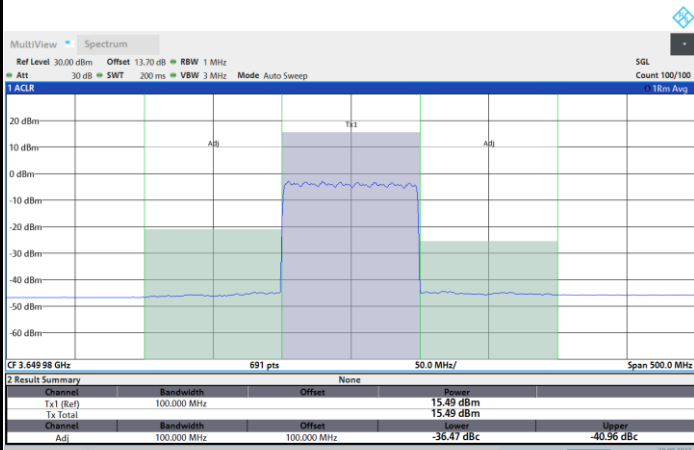
Highest Channel

1RB0

1RBmax



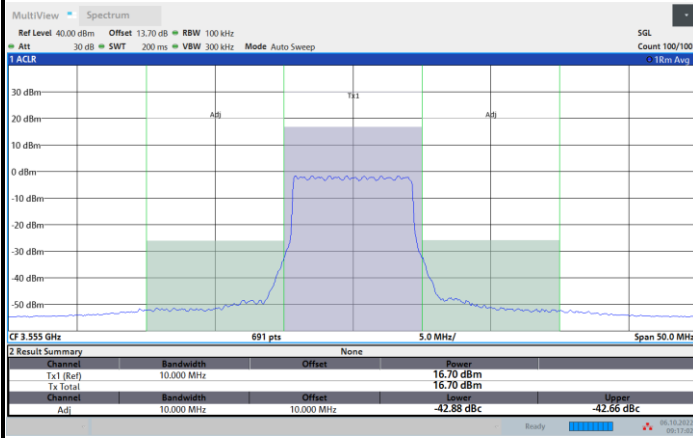
Full RB





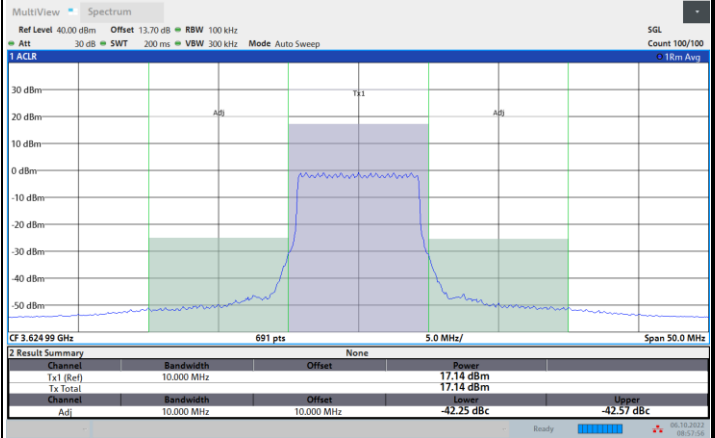
FR1 N77 / 10MHz / CP OFDM / QPSK / Full RB

Lowest Channel



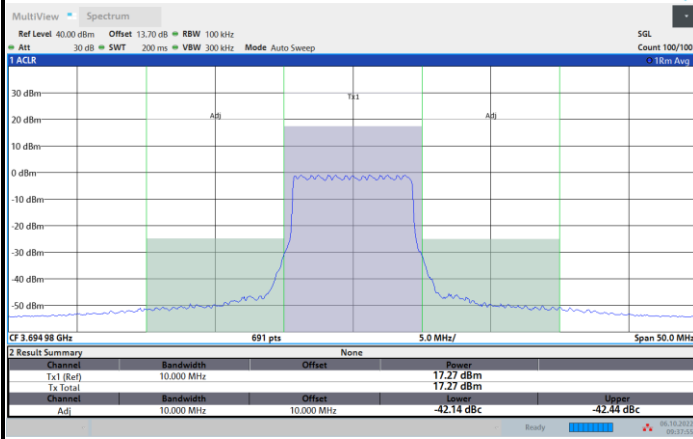
09:17:03 06.10.2022

Middle Channel



08:57:57 06.10.2022

Highest Channel



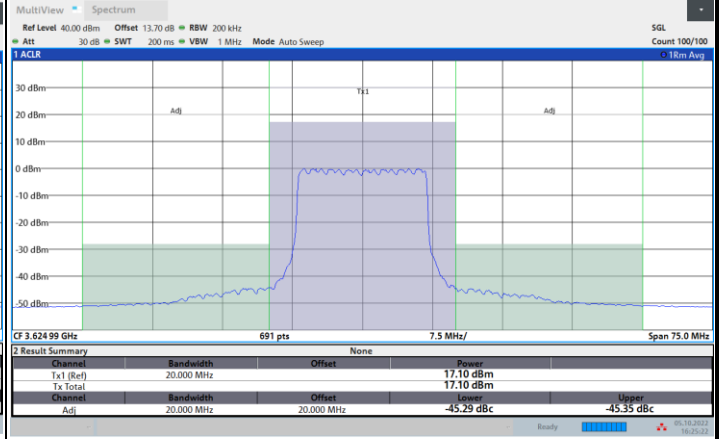
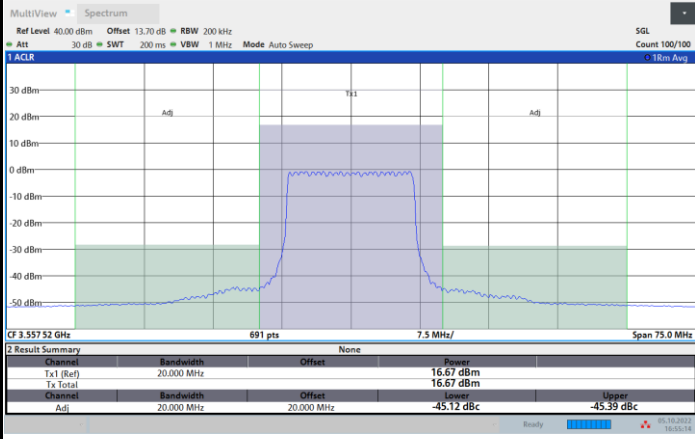
09:37:55 06.10.2022



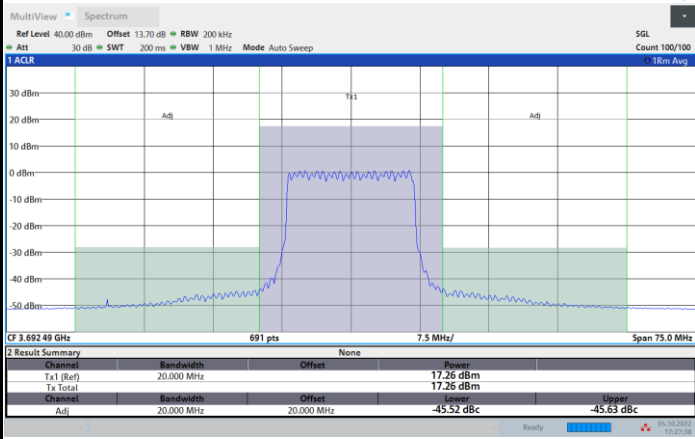
FR1 N77 / 15MHz / CP OFDM / QPSK / Full RB

Lowest Channel

Middle Channel



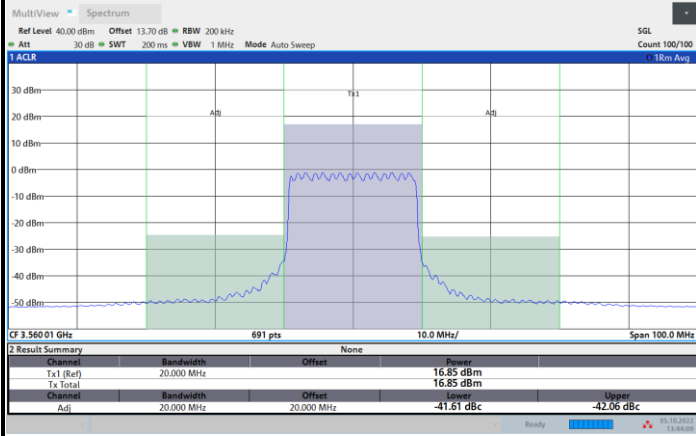
Highest Channel





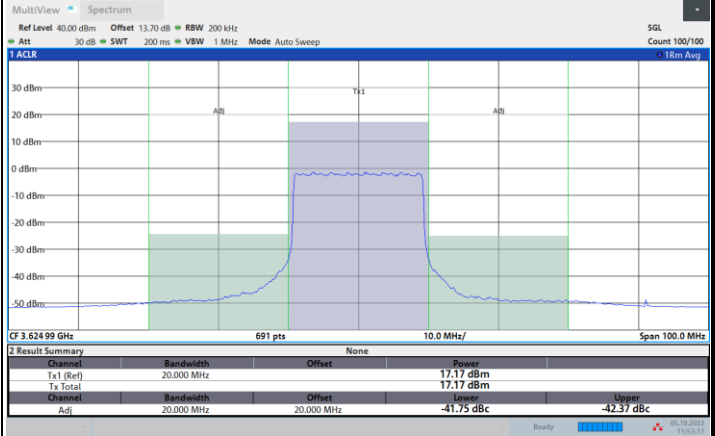
FR1 N77 / 20MHz / CP OFDM / QPSK / Full RB

Lowest Channel



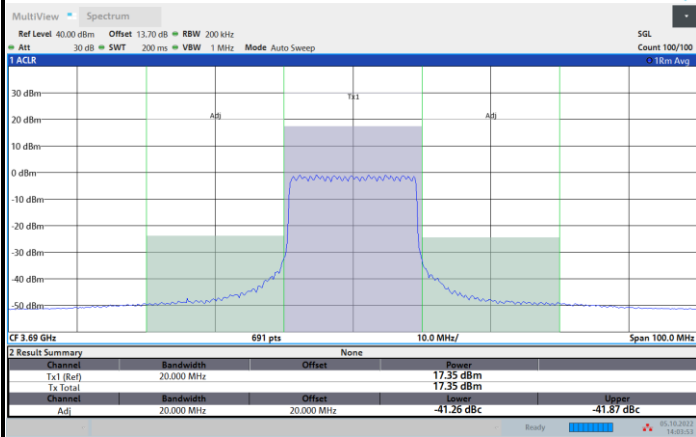
13:44:09 05.10.2022

Middle Channel



11:53:18 05.10.2022

Highest Channel

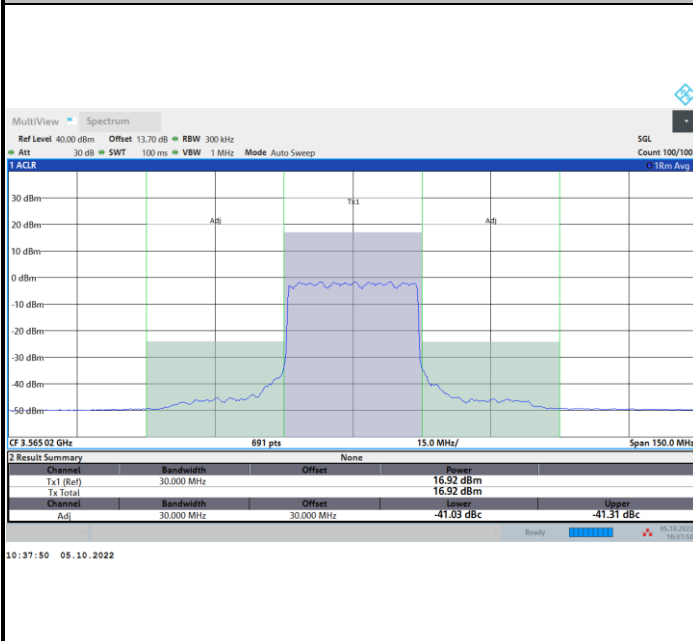


14:03:54 05.10.2022

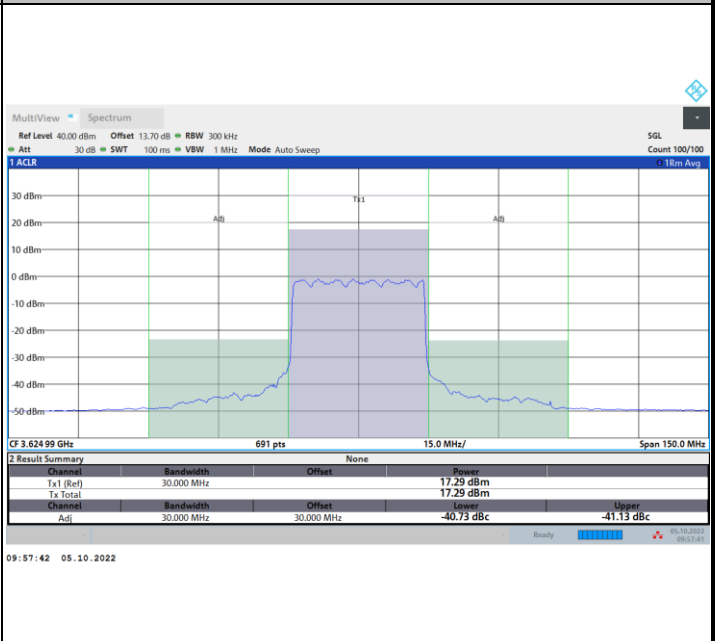


FR1 N77 / 30MHz / CP OFDM / QPSK / Full RB

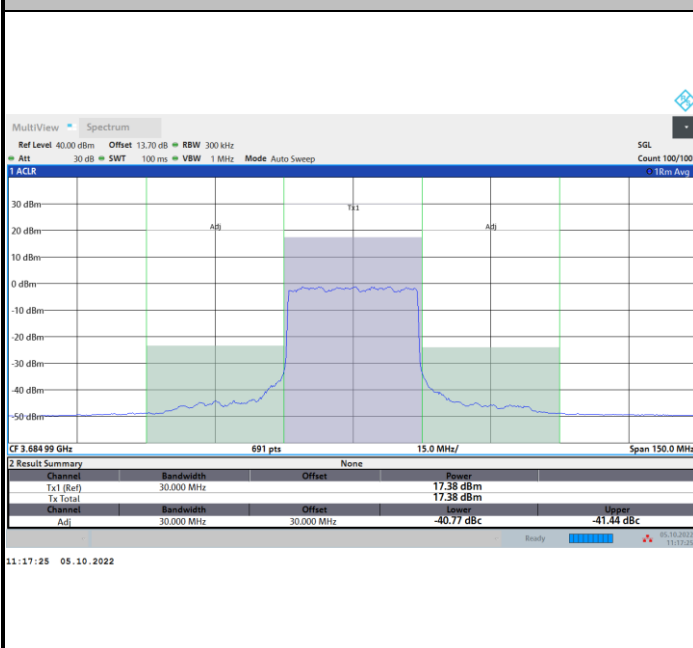
Lowest Channel



Middle Channel



Highest Channel

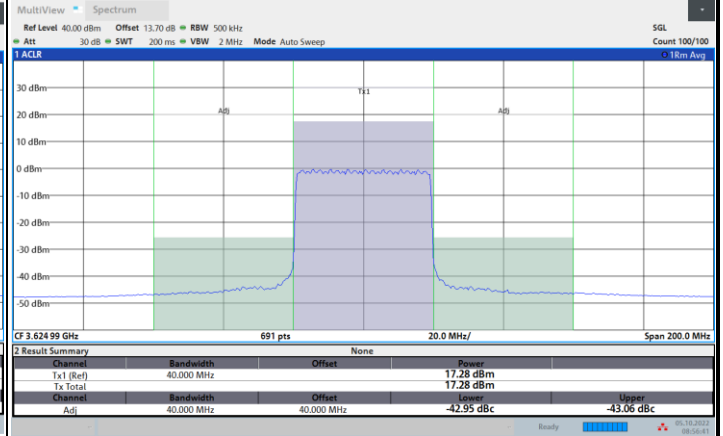
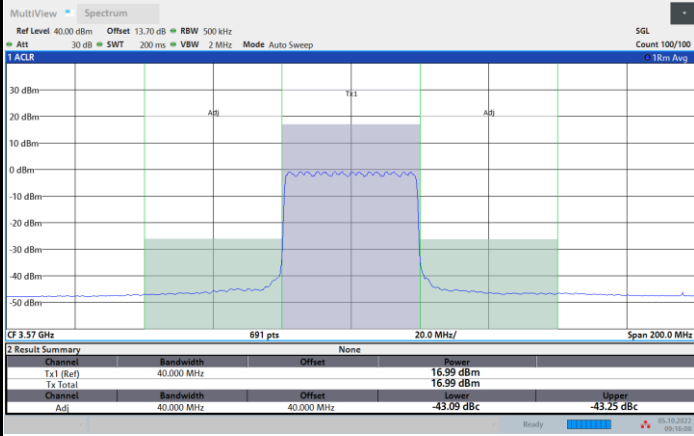




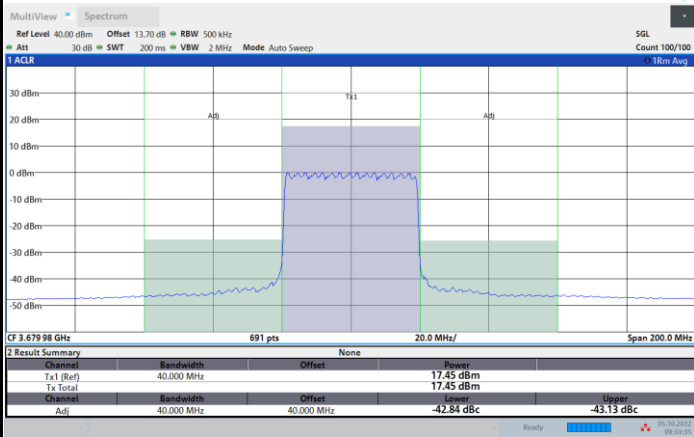
FR1 N77 / 40MHz / CP OFDM / QPSK / Full RB

Lowest Channel

Middle Channel



Highest Channel

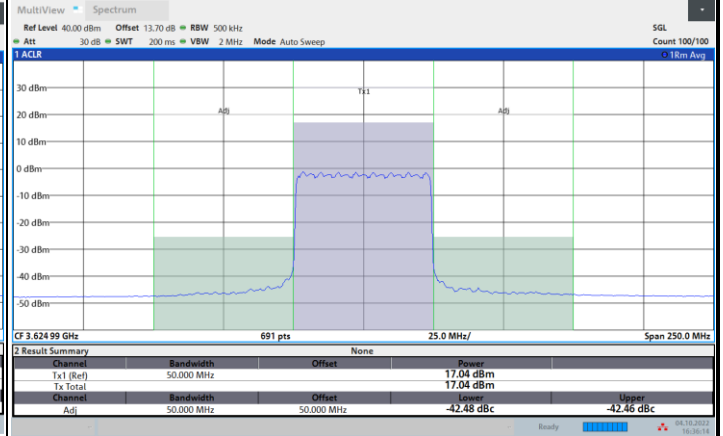
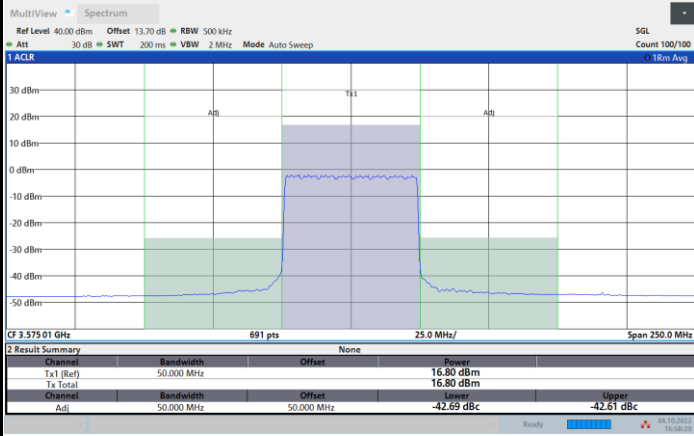




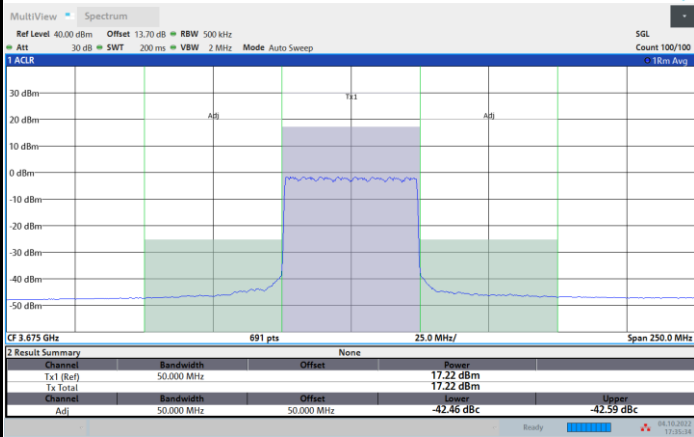
FR1 N77 / 50MHz / CP OFDM / QPSK / Full RB

Lowest Channel

Middle Channel



Highest Channel

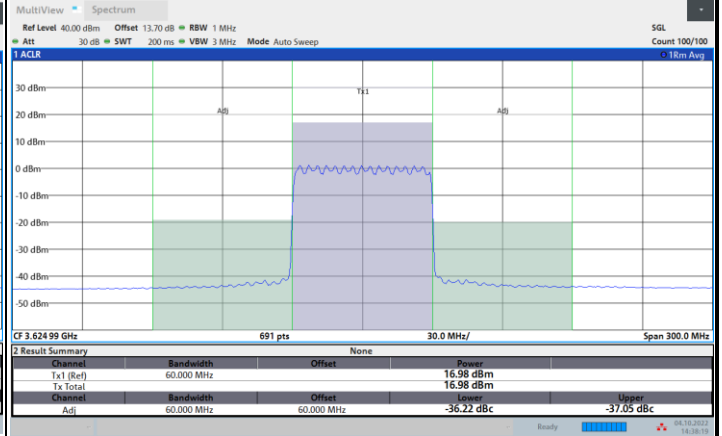
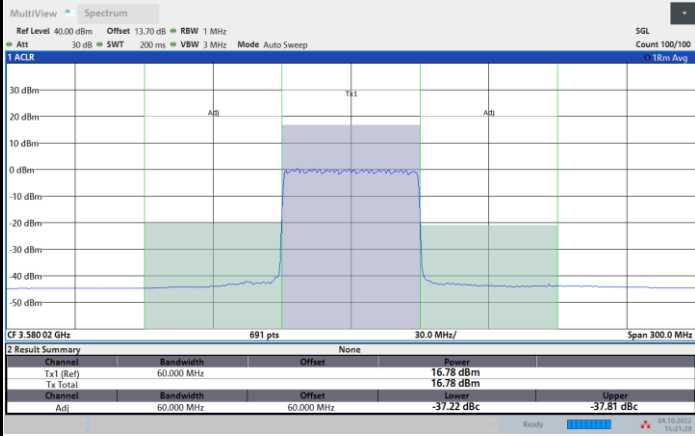




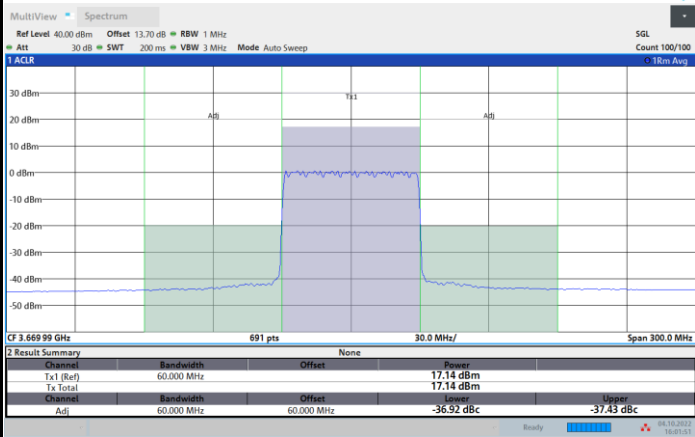
FR1 N77 / 60MHz / CP OFDM / QPSK / Full RB

Lowest Channel

Middle Channel



Highest Channel

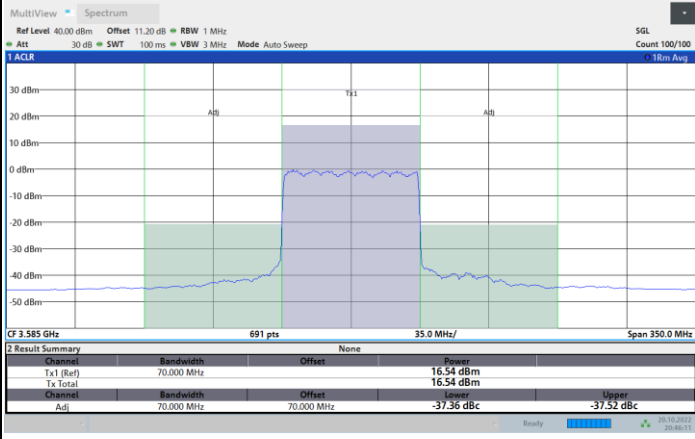




FR1 N77 / 70MHz / CP OFDM / QPSK / Full RB

Lowest Channel

Middle Channel



Highest Channel

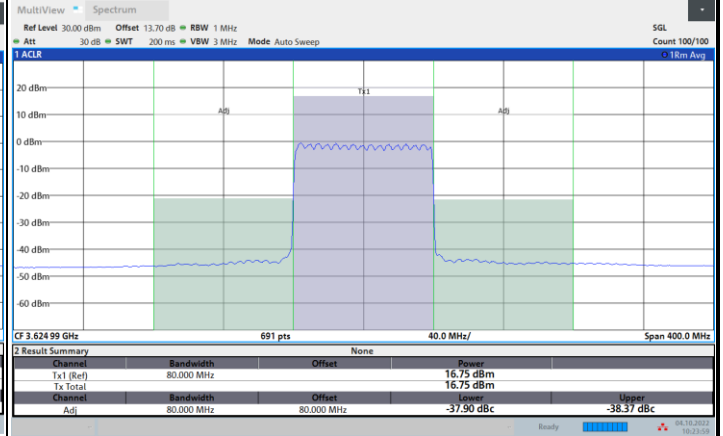
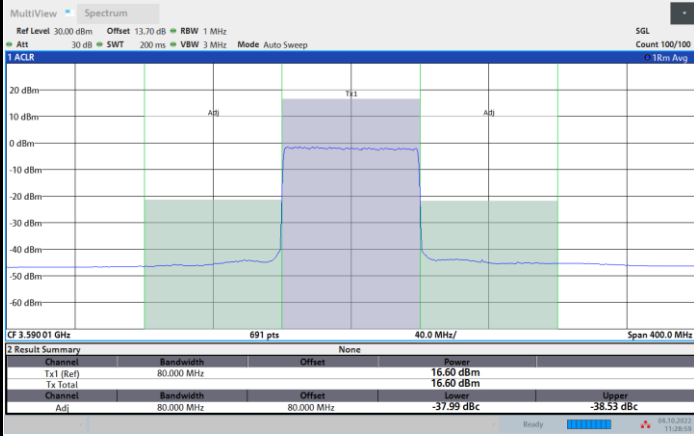




FR1 N77 / 80MHz / CP OFDM / QPSK / Full RB

Lowest Channel

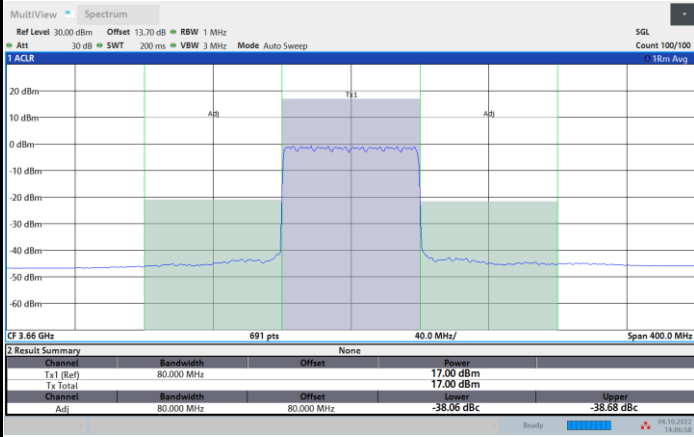
Middle Channel



11:28:59 04.10.2022

10:24:00 04.10.2022

Highest Channel



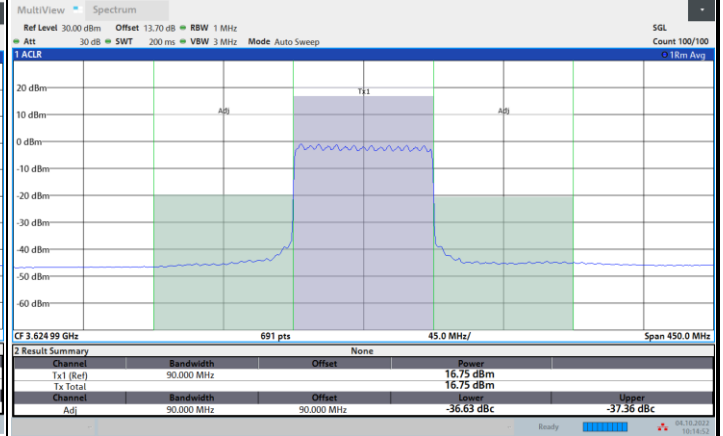
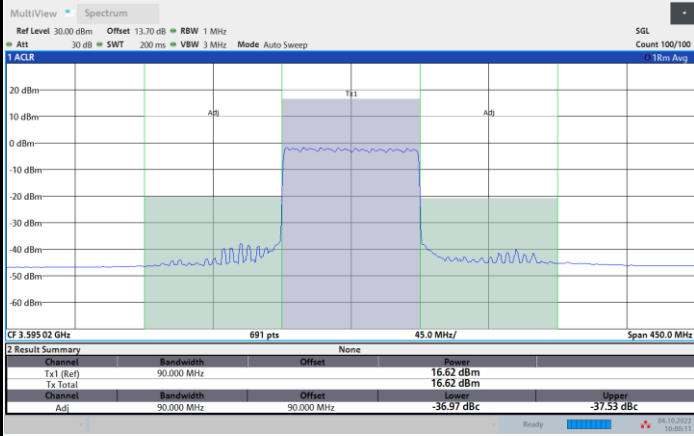
14:06:59 04.10.2022



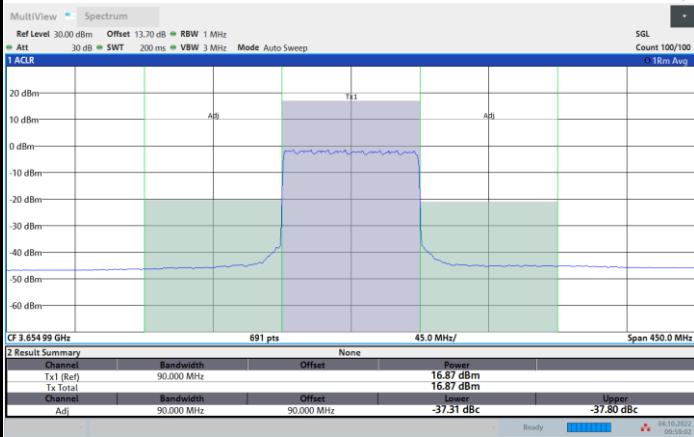
FR1 N77 / 90MHz / CP OFDM / QPSK / Full RB

Lowest Channel

Middle Channel



Highest Channel

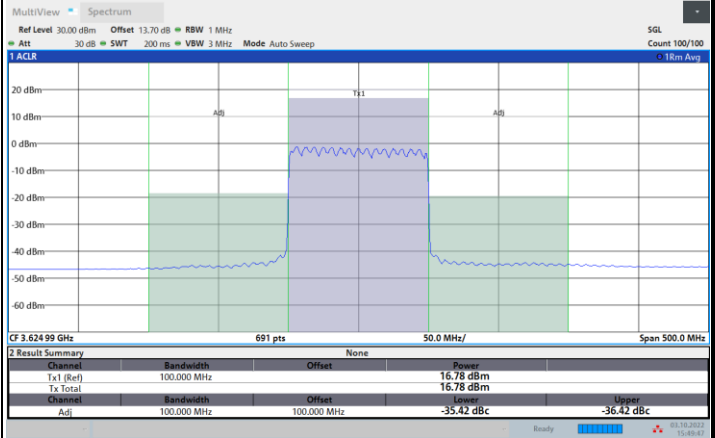
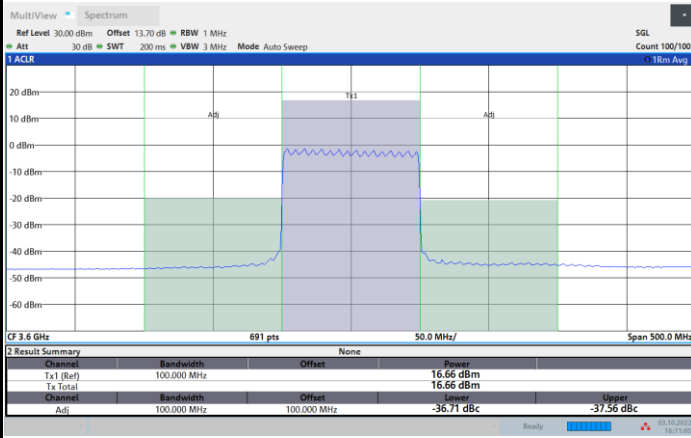




FR1 N77 / 100MHz / CP OFDM / QPSK / Full RB

Lowest Channel

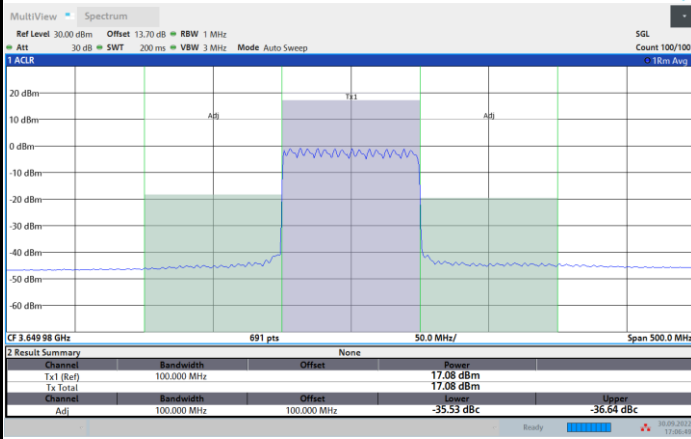
Middle Channel



16:11:06 03.10.2022

15:49:48 03.10.2022

Highest Channel



17:06:50 30.09.2022

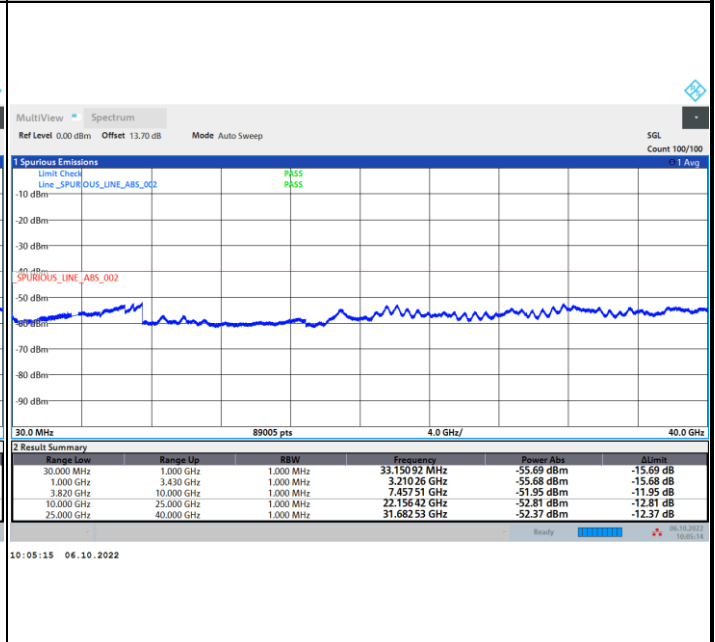
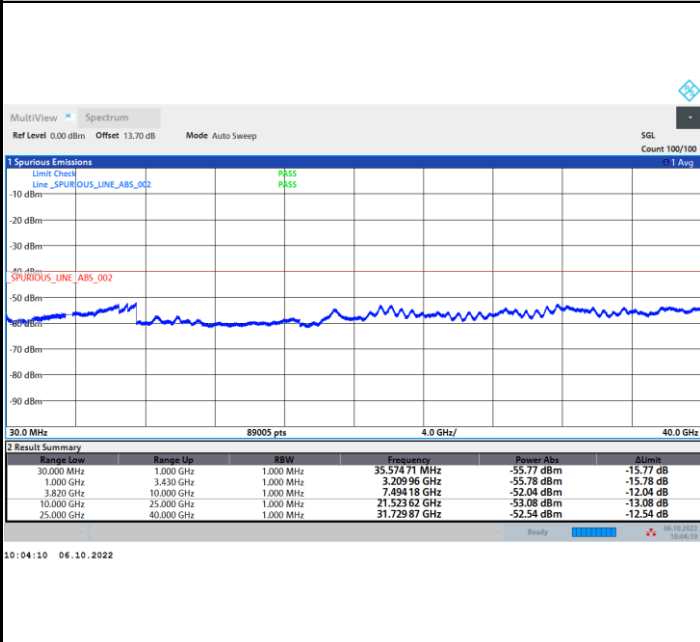


Conducted Spurious Emission

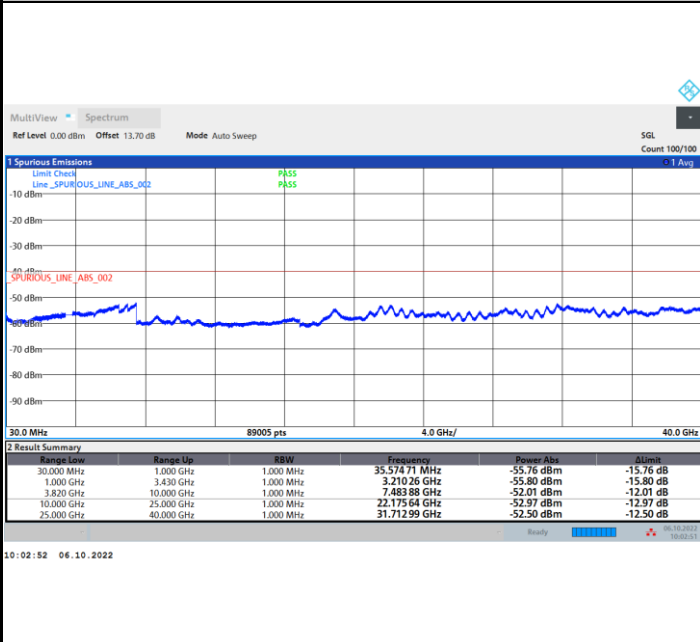
FR1 N77 / 10MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 N77 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0023	PASS
40	Normal Voltage	0.0012	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0014	
-10	Normal Voltage	0.0002	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0019	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

- 1. Normal Voltage = 3.3 V. ; Battery End Point (BEP) = 3.135 V. ; Maximum Voltage = 3.63 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



<MIMO Mode>
MIMO <Ant. 0>

Peak-to-Average Ratio

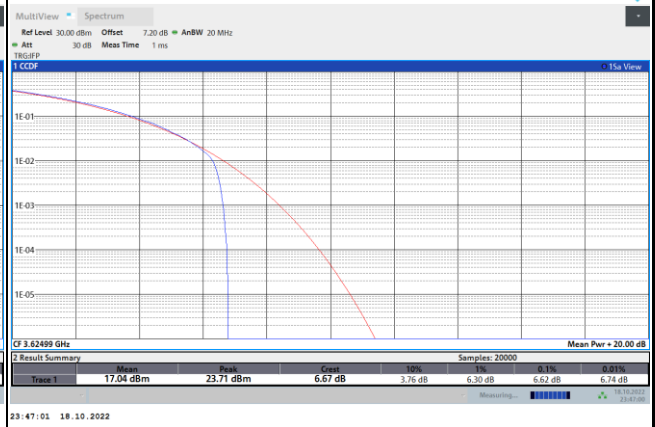
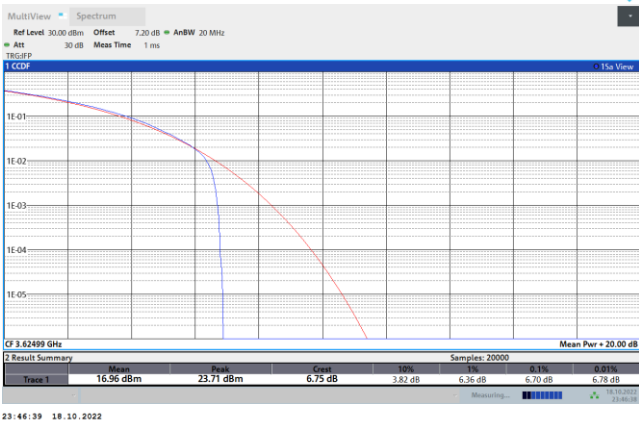
Mode	FR1 N77 / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	6.70	6.62	7.10	8.42	PASS



FR1 N77 / 20MHz / CP OFDM / Middle Channel / Full RB

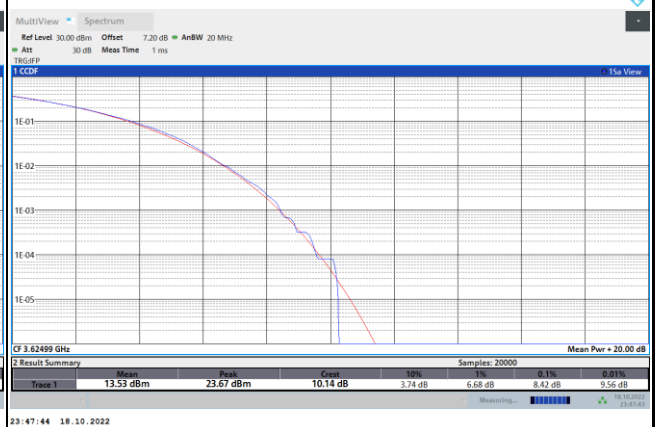
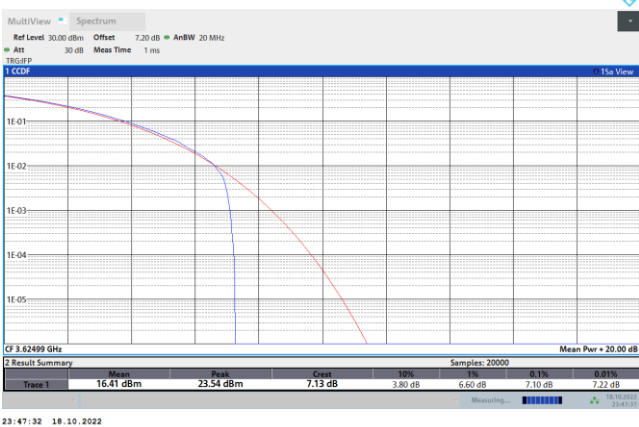
QPSK

16QAM



64QAM

256QAM





26dB Bandwidth

Mode	FR1 N77 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.15	9.45	14.69	14.71	19.38	19.34	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.05	9.39	14.71	14.39	19.30	19.18	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	28.89	29.19	40.36	40.28	49.95	50.15	60.54	60.66
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	29.07	29.19	40.44	40.20	50.15	50.05	60.66	60.42
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	70.49	70.49	80.40	80.56	90.27	90.45	100.30	100.50
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	70.21	70.21	80.24	80.56	90.45	90.63	100.50	100.70