

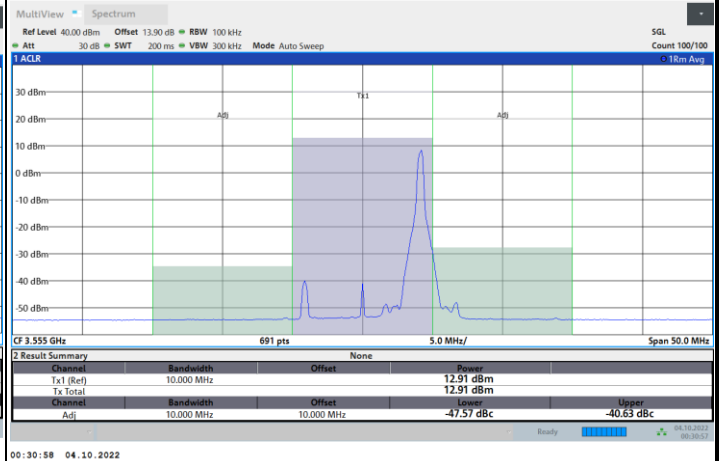
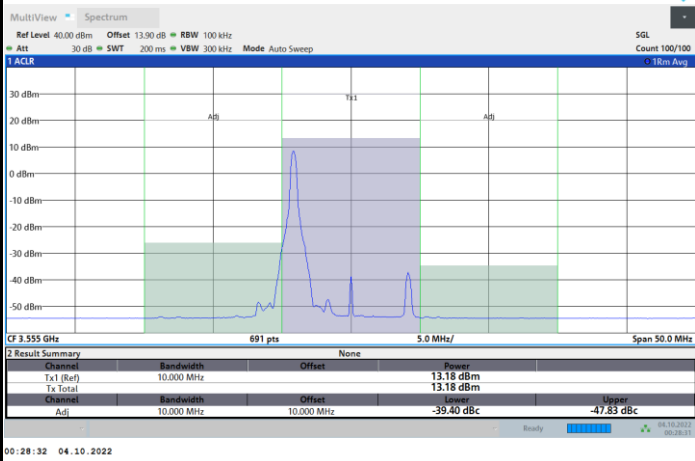


FR1 n48 / 10MHz / CP OFDM / 64QAM

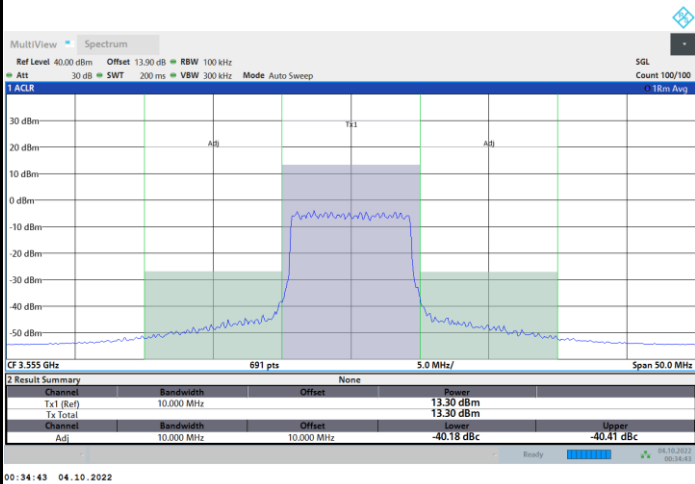
Lowest Channel

1RB0

1RBmax



Full RB



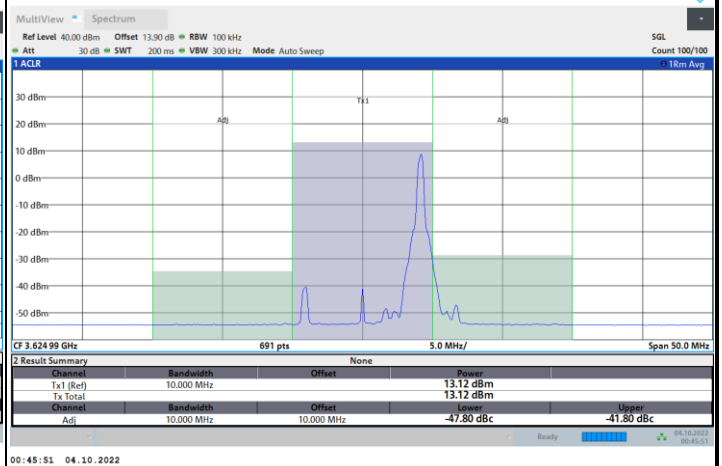
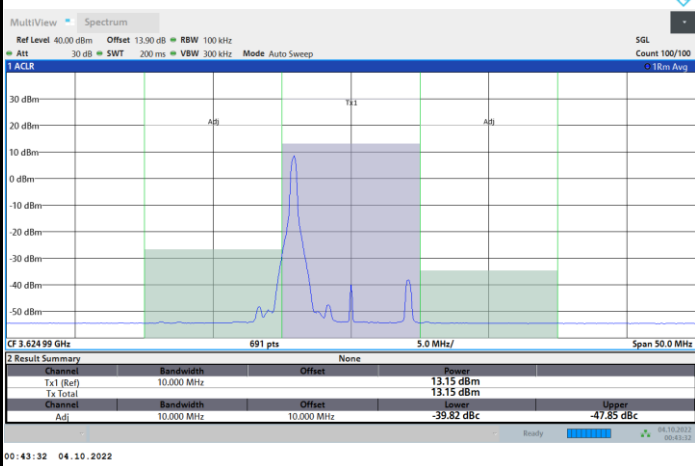


FR1 n48 / 10MHz / CP OFDM / 64QAM

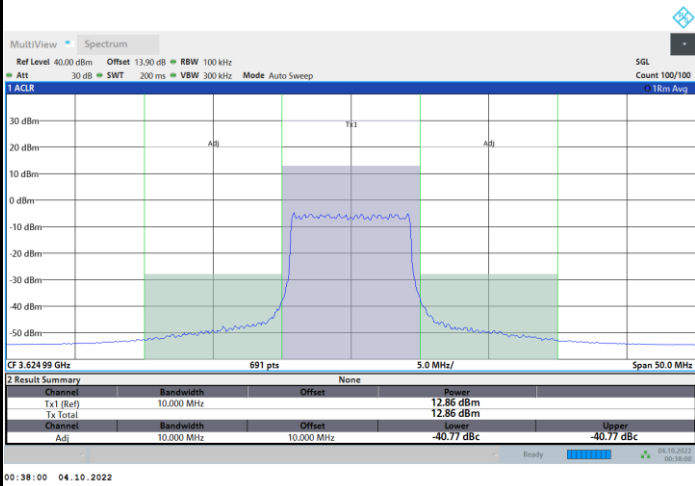
Middle Channel

1RB0

1RBmax



Full RB



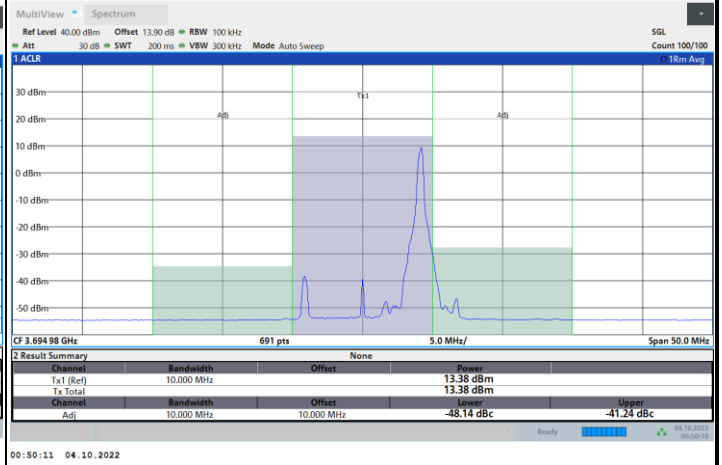
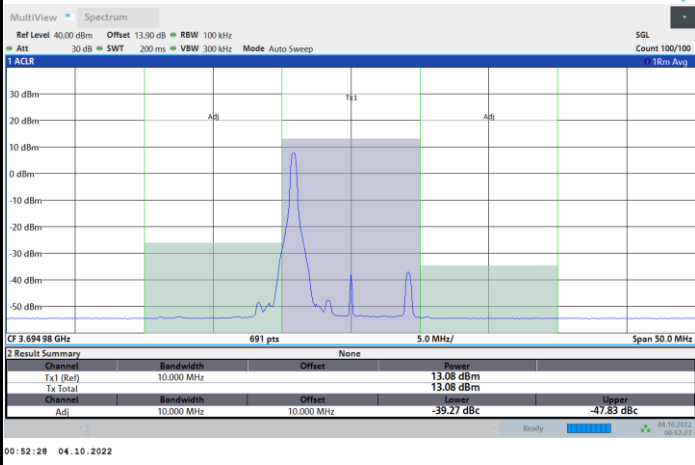


FR1 n48 / 10MHz / CP OFDM / 64QAM

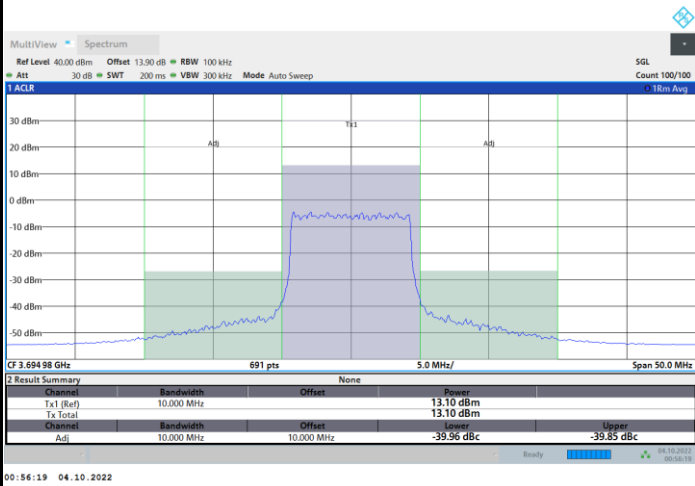
Highest Channel

1RB0

1RBmax



Full RB



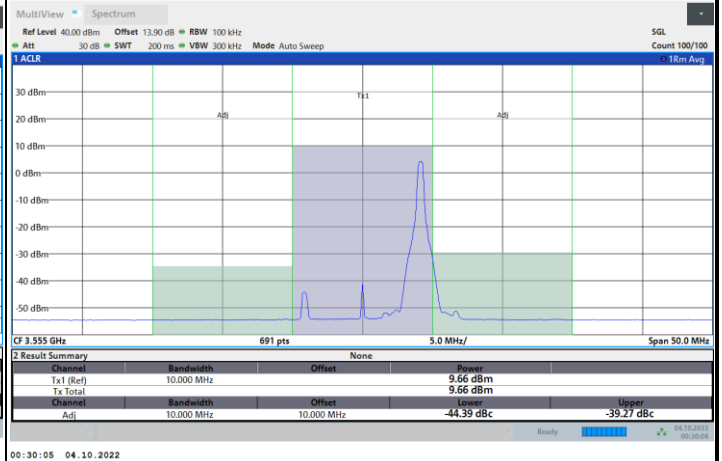
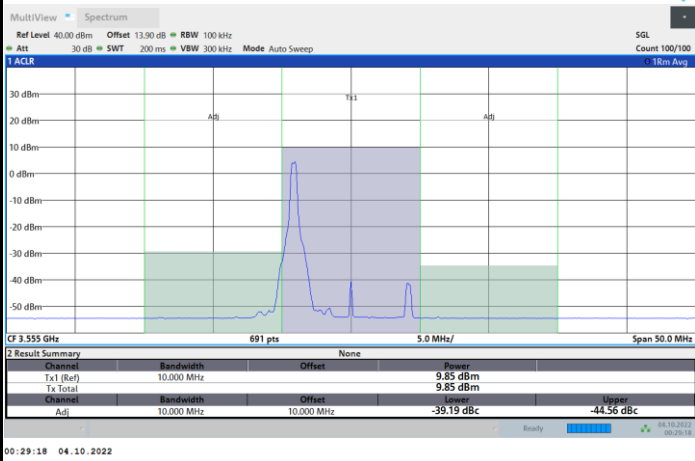


FR1 n48 / 10MHz / CP OFDM / 256QAM

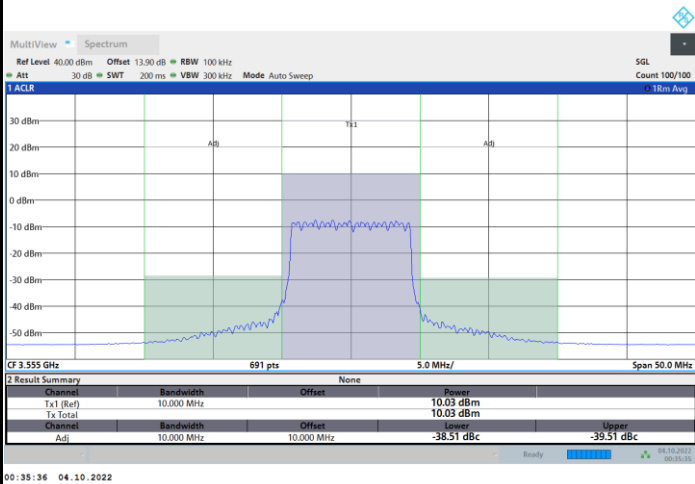
Lowest Channel

1RB0

1RBmax



Full RB



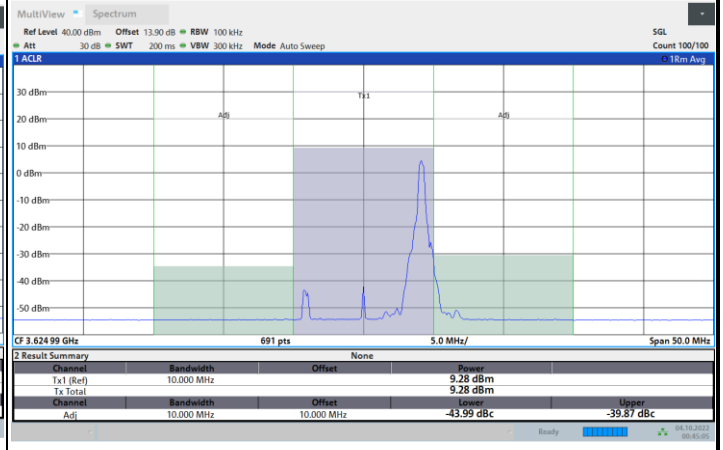
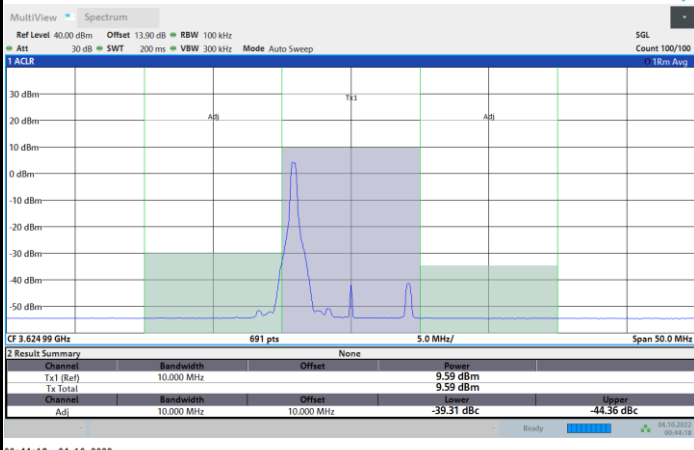


FR1 n48 / 10MHz / CP OFDM / 256QAM

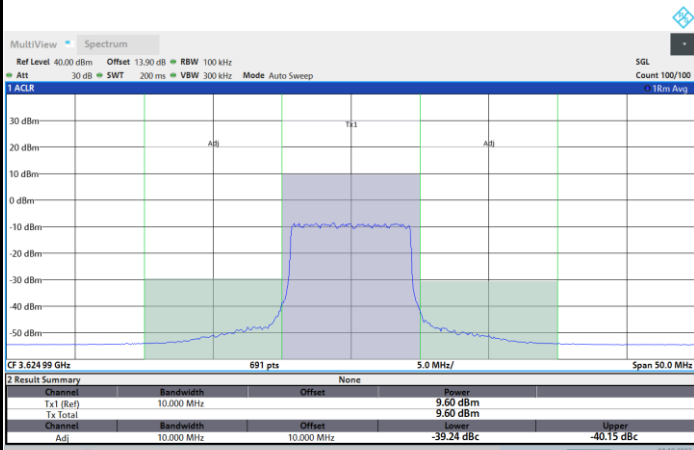
Middle Channel

1RB0

1RBmax



Full RB



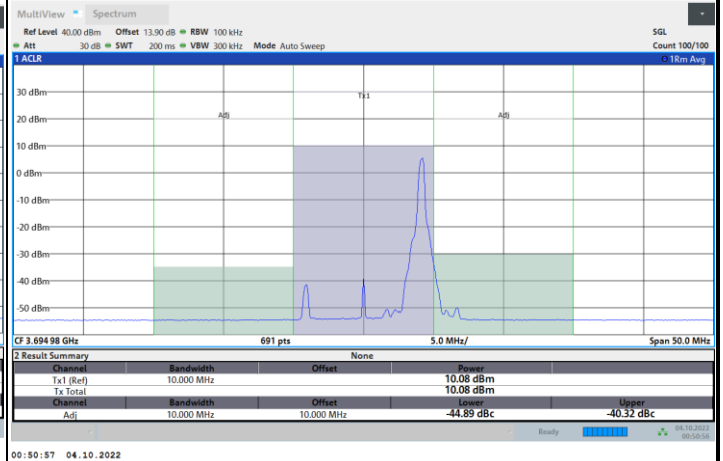
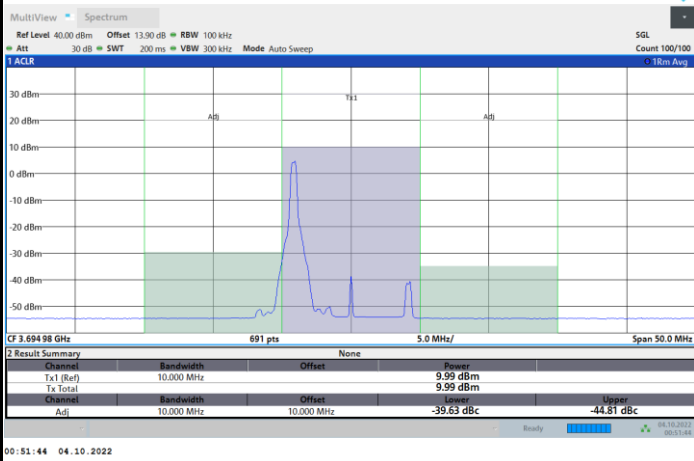


FR1 n48 / 10MHz / CP OFDM / 256QAM

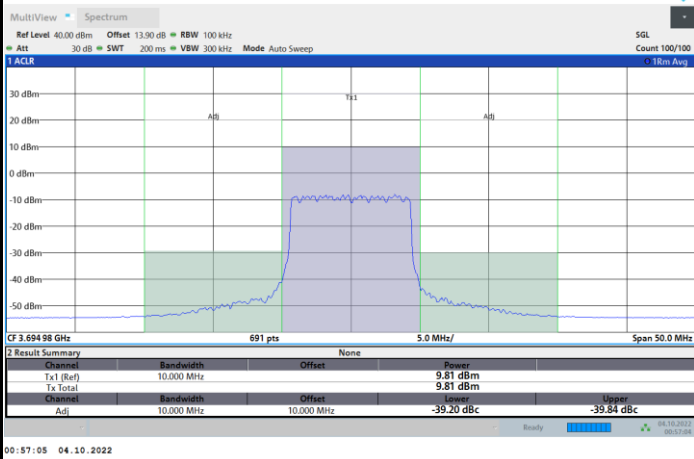
Highest Channel

1RB0

1RBmax



Full RB

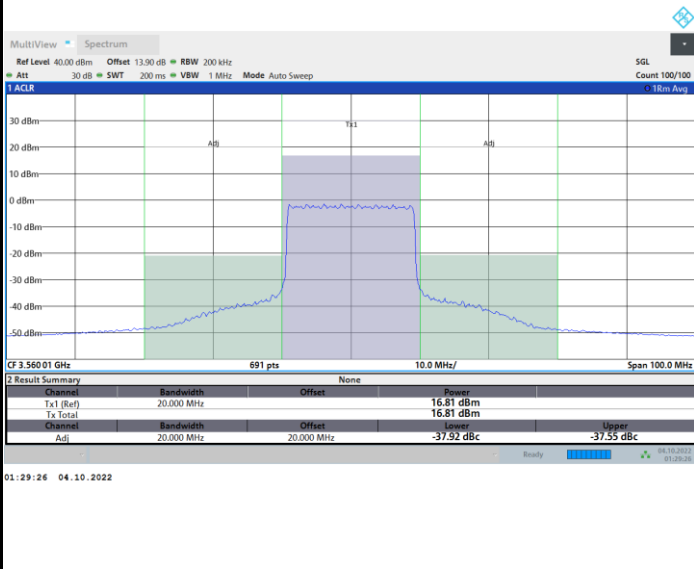




FR1 n48 / 20MHz / CP OFDM / QPSK

Lowest Channel

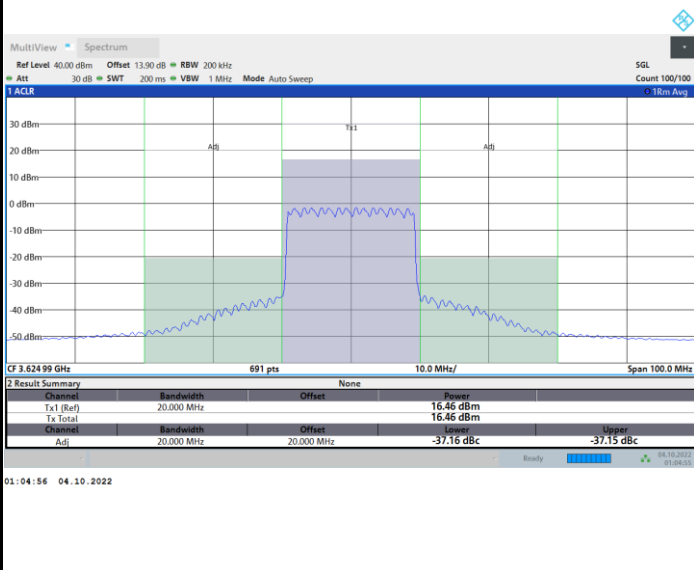
Full RB



FR1 n48 / 20MHz / CP OFDM / QPSK

Middle Channel

Full RB

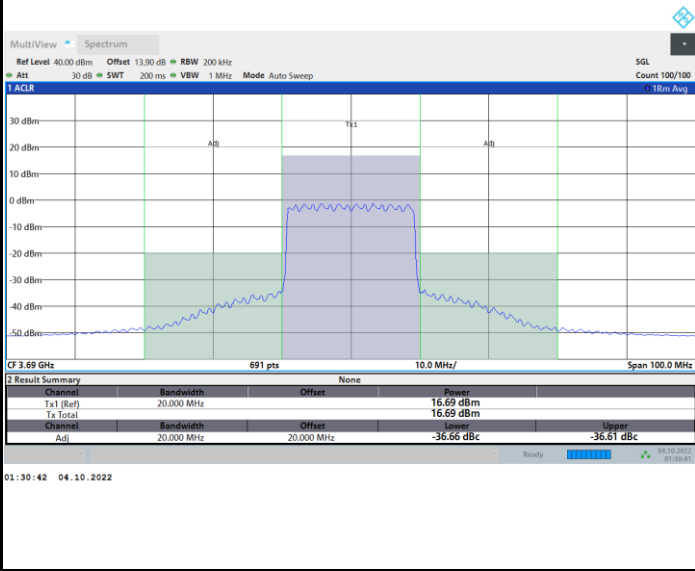




FR1 n48 / 20MHz / CP OFDM / QPSK

Highest Channel

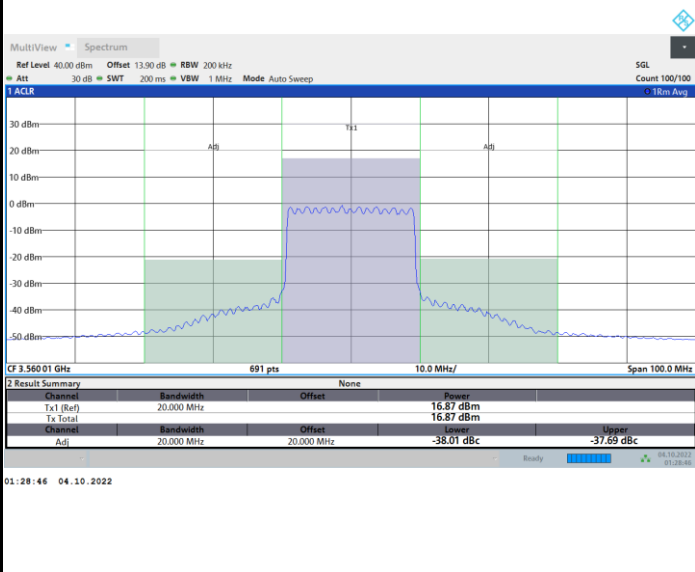
Full RB



FR1 n48 / 20MHz / CP OFDM / 16QAM

Lowest Channel

Full RB

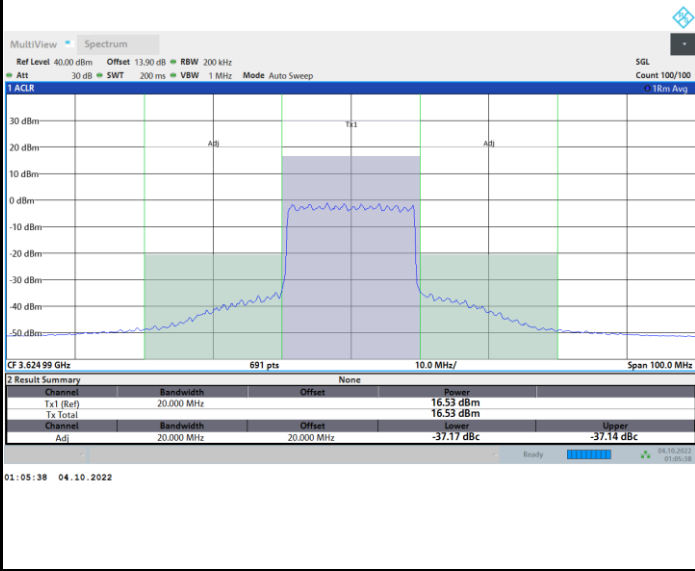




FR1 n48 / 20MHz / CP OFDM / 16QAM

Middle Channel

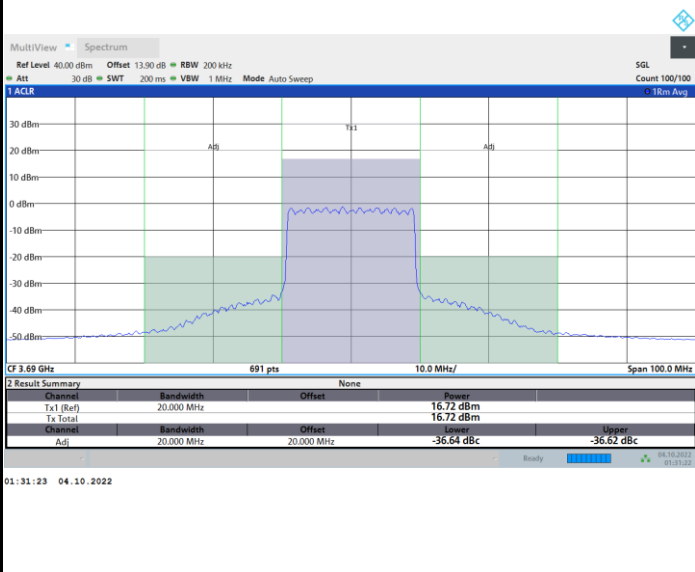
Full RB



FR1 n48 / 20MHz / CP OFDM / 16QAM

Highest Channel

Full RB

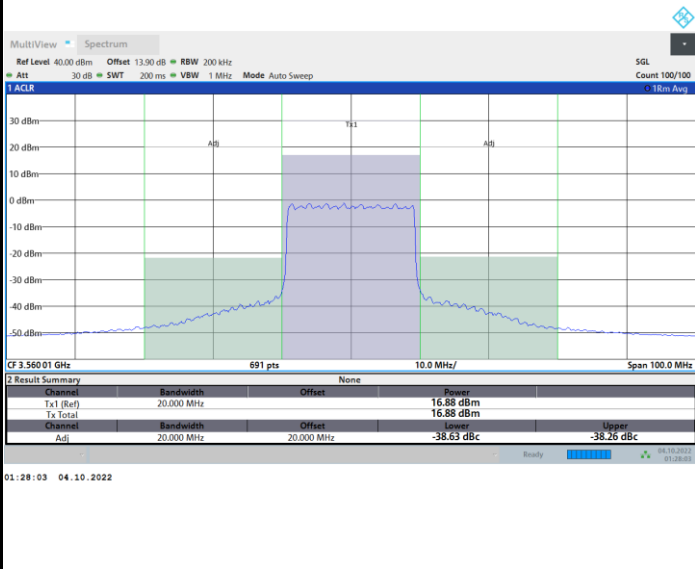




FR1 n48 / 20MHz / CP OFDM / 64QAM

Lowest Channel

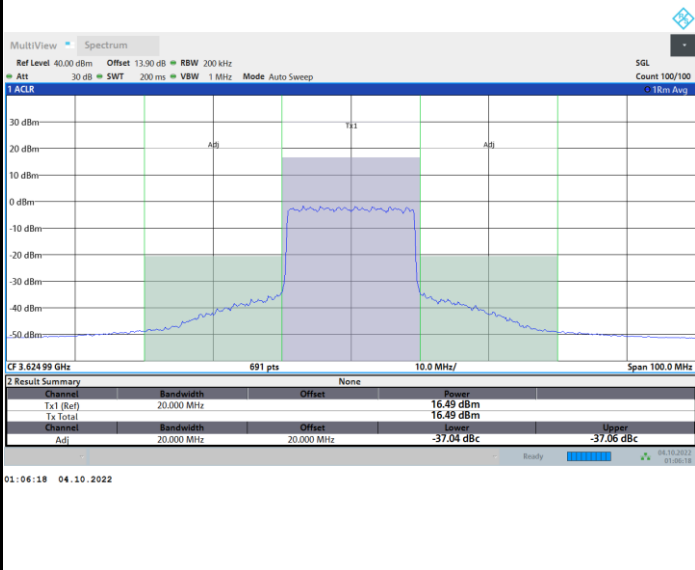
Full RB



FR1 n48 / 20MHz / CP OFDM / 64QAM

Middle Channel

Full RB

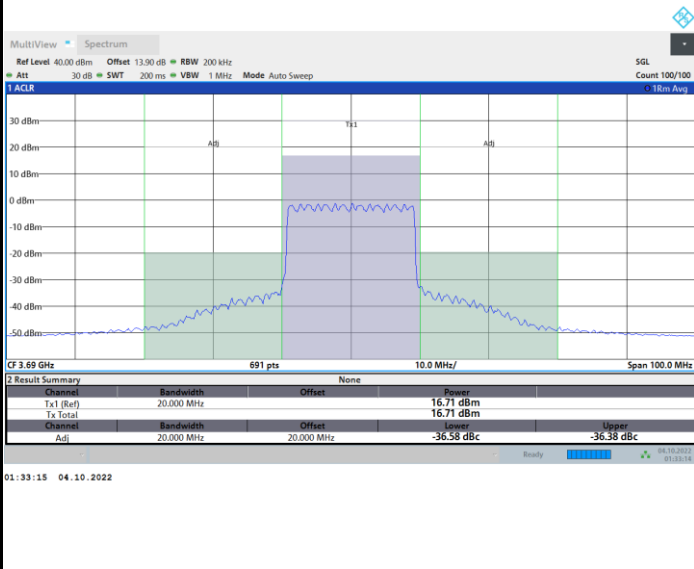




FR1 n48 / 20MHz / CP OFDM / 64QAM

Highest Channel

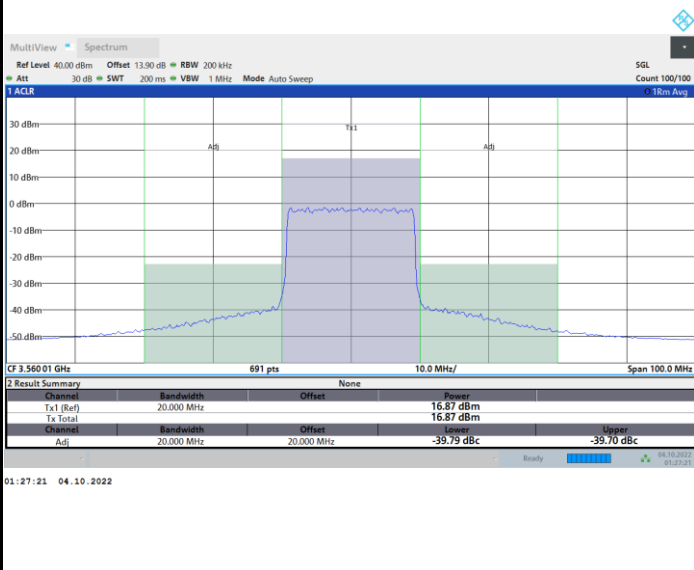
Full RB



FR1 n48 / 20MHz / CP OFDM / 256QAM

Lowest Channel

Full RB

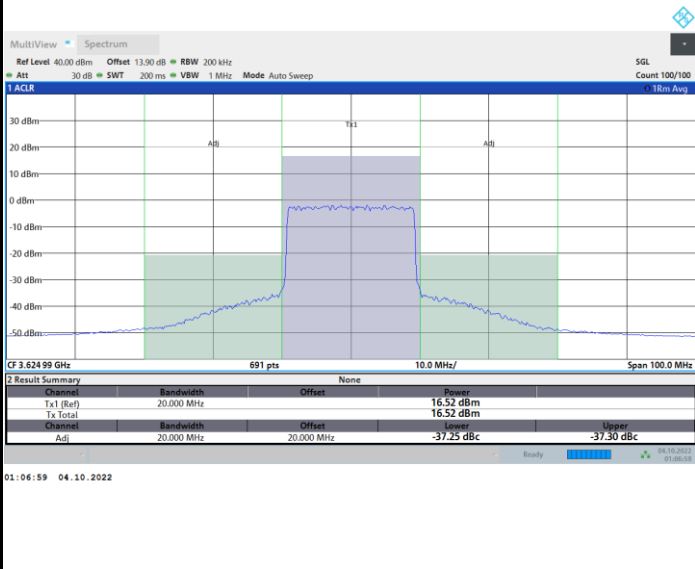




FR1 n48 / 20MHz / CP OFDM / 256QAM

Middle Channel

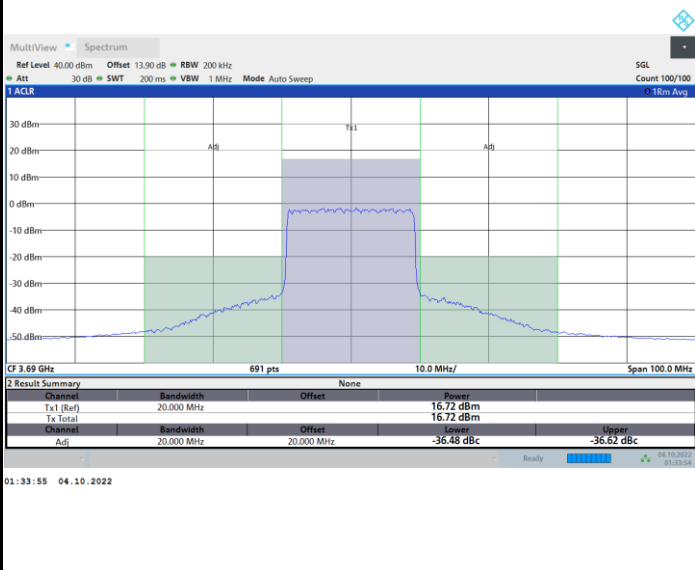
Full RB



FR1 n48 / 20MHz / CP OFDM / 256QAM

Highest Channel

Full RB



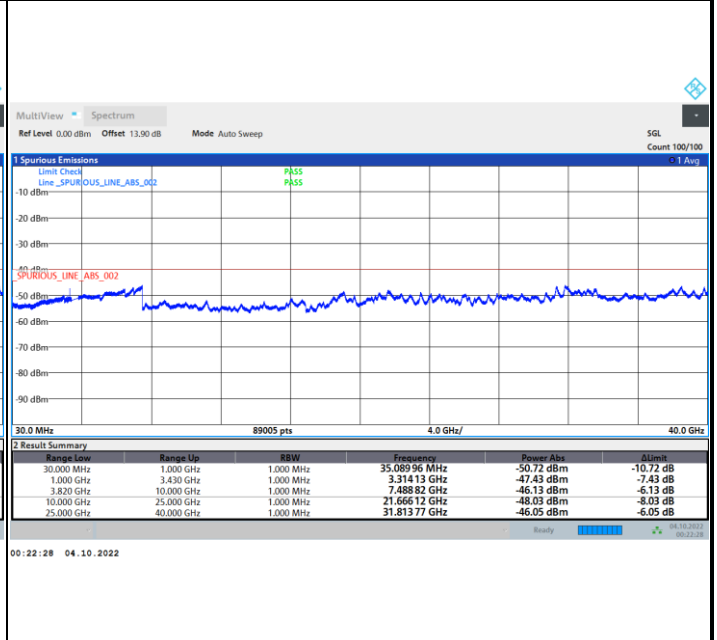
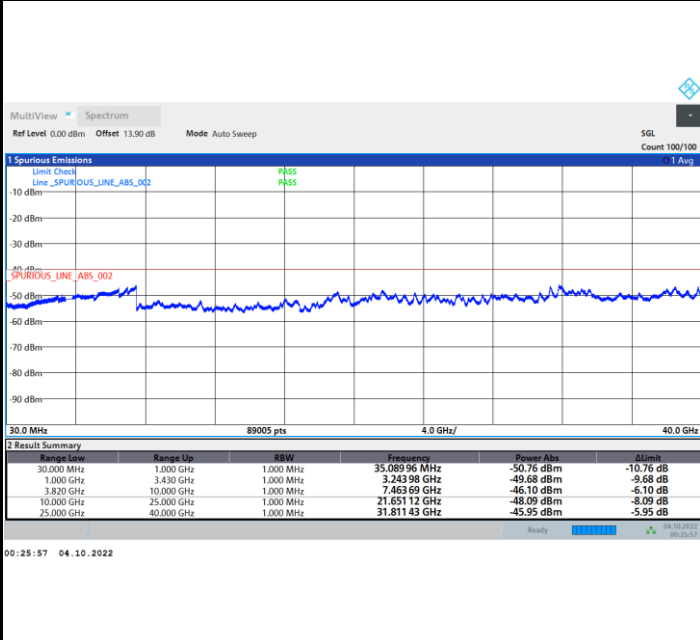


Conducted Spurious Emission

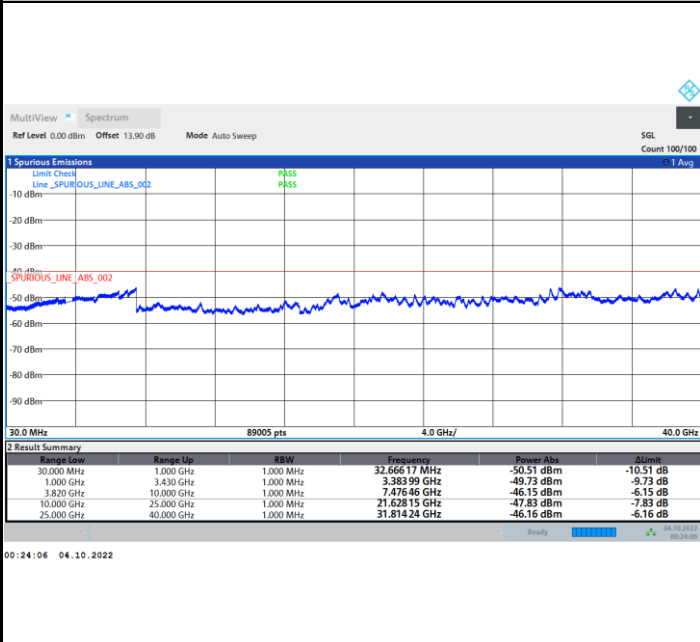
FR1 n48 / 10MHz / CP OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel

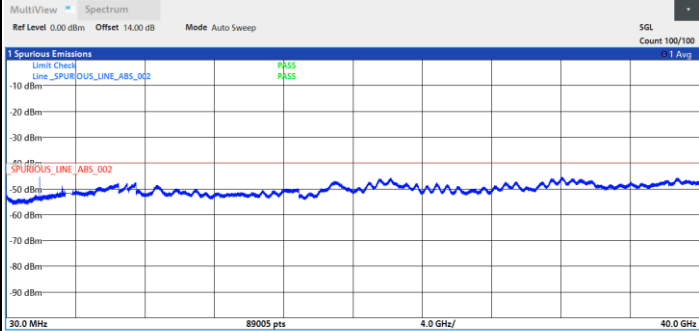




FR1 n48 / 20MHz / CP OFDM / QPSK / 1RB1

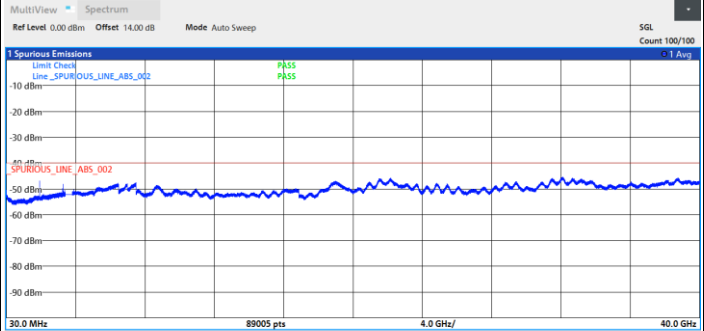
Lowest Channel

Middle Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	30.24238 MHz	-50.53 dBm	-10.53 dB
1.000 GHz	3.430 GHz	1.000 MHz	1.95047 GHz	-45.42 dBm	-5.42 dB
3.820 GHz	10.000 GHz	1.000 MHz	7.49912 GHz	-47.61 dBm	-7.61 dB
10.000 GHz	25.000 GHz	1.000 MHz	22.20610 GHz	-45.87 dBm	-5.87 dB
25.000 GHz	40.000 GHz	1.000 MHz	32.08517 GHz	-45.43 dBm	-5.43 dB

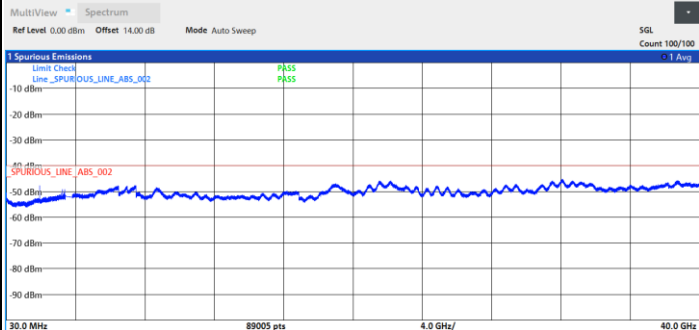
11:30:29 04.10.2022



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	35.57471 MHz	-50.49 dBm	-10.49 dB
1.000 GHz	3.430 GHz	1.000 MHz	1.94773 GHz	-46.85 dBm	-6.85 dB
3.820 GHz	10.000 GHz	1.000 MHz	7.49706 GHz	-47.62 dBm	-7.62 dB
10.000 GHz	25.000 GHz	1.000 MHz	22.19813 GHz	-45.81 dBm	-5.81 dB
25.000 GHz	40.000 GHz	1.000 MHz	32.10017 GHz	-45.40 dBm	-5.40 dB

11:32:20 04.10.2022

Highest Channel



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
30.000 MHz	1.000 GHz	1.000 MHz	34.60520 MHz	-50.59 dBm	-10.59 dB
1.000 GHz	3.430 GHz	1.000 MHz	1.94682 GHz	-47.69 dBm	-7.69 dB
3.820 GHz	10.000 GHz	1.000 MHz	7.48058 GHz	-47.69 dBm	-7.69 dB
10.000 GHz	25.000 GHz	1.000 MHz	22.19110 GHz	-45.96 dBm	-5.96 dB
25.000 GHz	40.000 GHz	1.000 MHz	32.05939 GHz	-45.28 dBm	-5.28 dB

11:33:31 04.10.2022



Frequency Stability

Test Conditions		FR1 n48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0016	PASS
40	Normal Voltage	0.0014	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

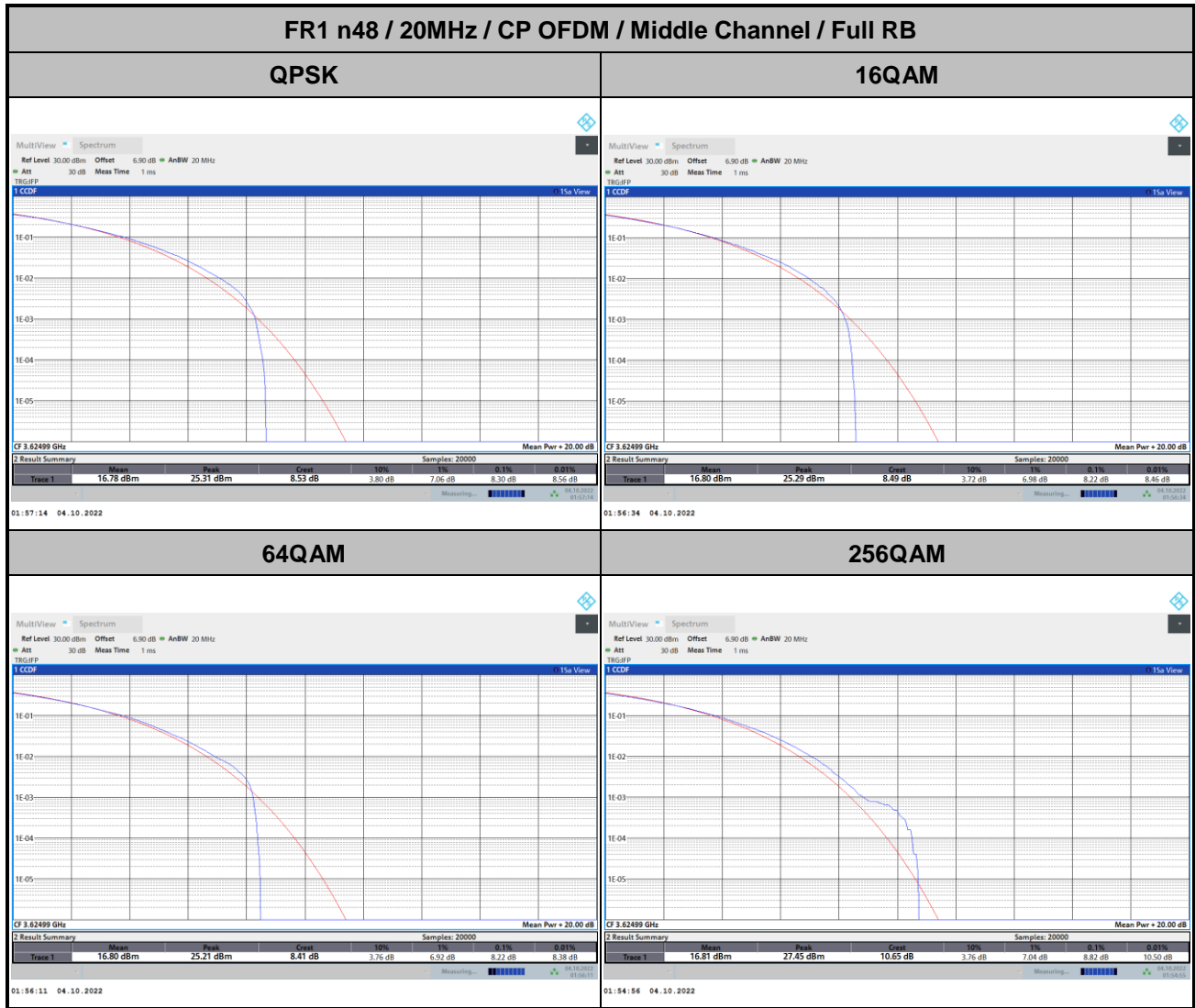
1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage = 4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



MIMO <Ant. 6>

Peak-to-Average Ratio

Mode	FR1 n48 / 20MHz / CP OFDM				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	8.30	8.22	8.22	8.82	PASS





26dB Bandwidth

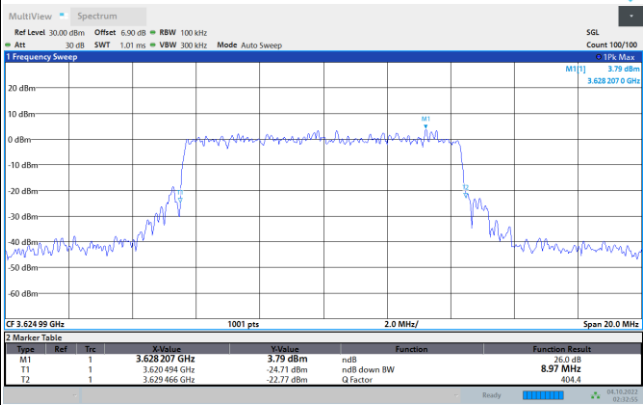
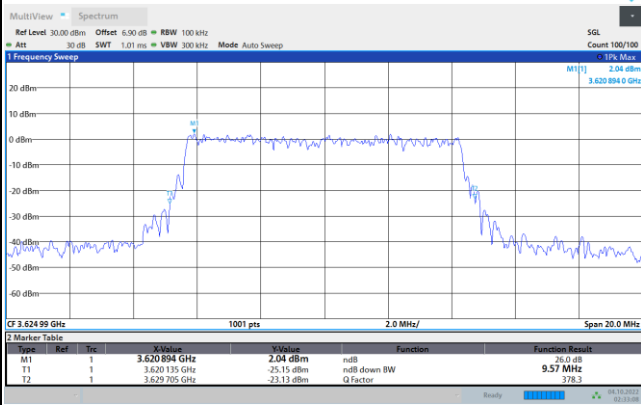
Mode	FR1 n48 : 26dB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	9.57	8.97	-	-	19.14	19.26	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	9.49	9.33	-	-	19.22	19.26	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	-	-	-	-
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	-	-	-	-



FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

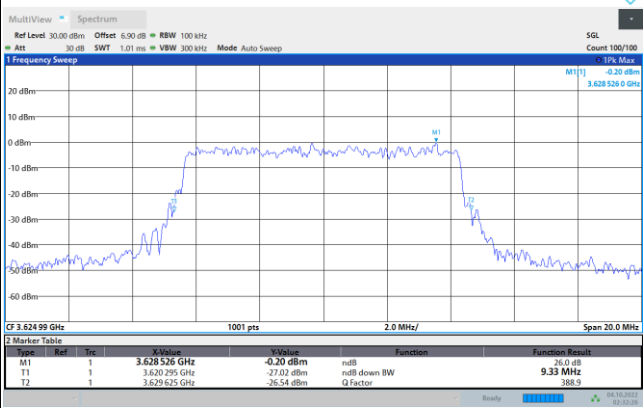
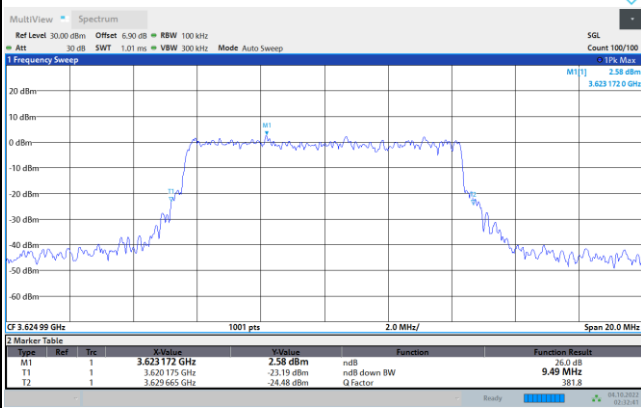
QPSK

16QAM



64QAM

256QAM

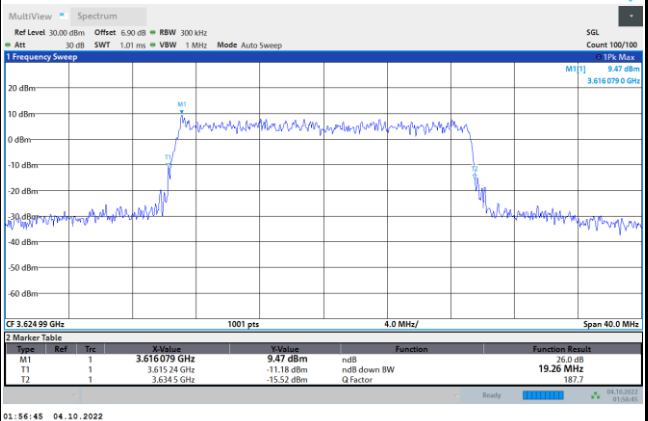
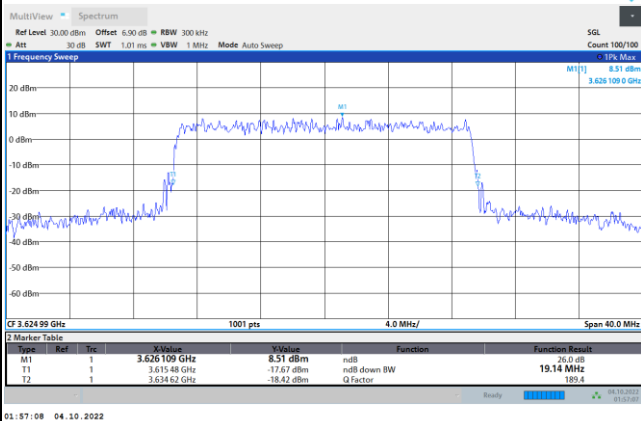




FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

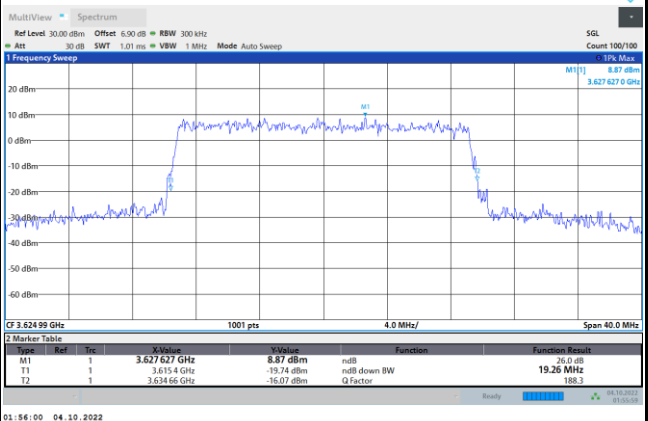
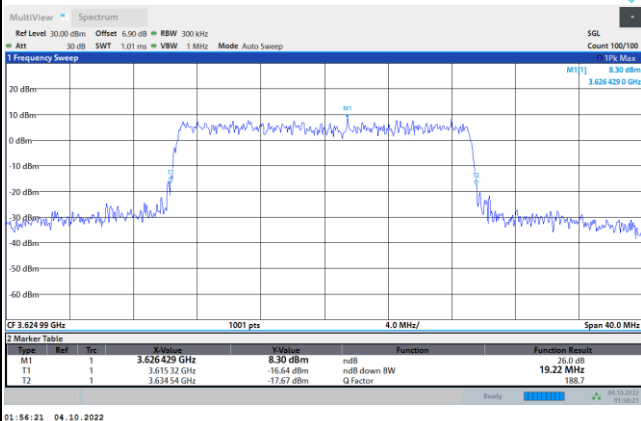
QPSK

16QAM



64QAM

256QAM





Occupied Bandwidth

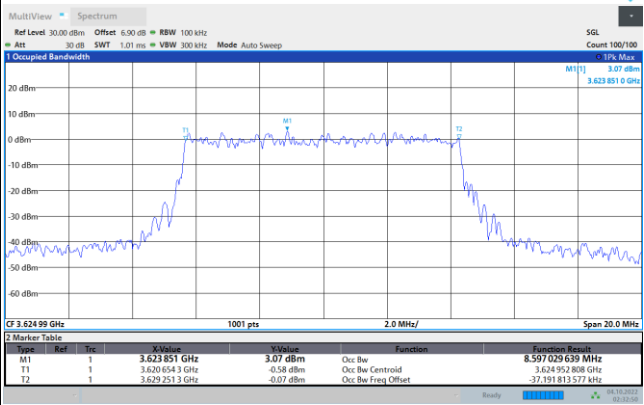
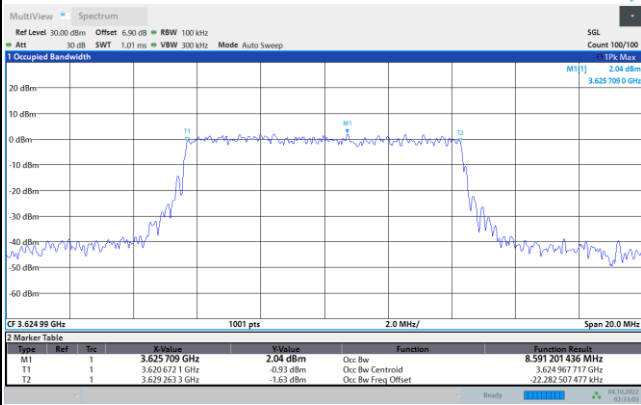
Mode	FR1 n48 : OB BW(MHz) / CP OFDM							
BW	10MHz		15MHz		20MHz		25MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	8.59	8.60	-	-	18.23	18.28	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	8.59	8.57	-	-	18.22	18.21	-	-
BW	30MHz		40MHz		50MHz		60MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	-	-	-	-
BW	70MHz		80MHz		90MHz		100MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	-	-	-	-
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	-	-	-	-



FR1 n48 / 10MHz / CP OFDM / Middle Channel / Full RB

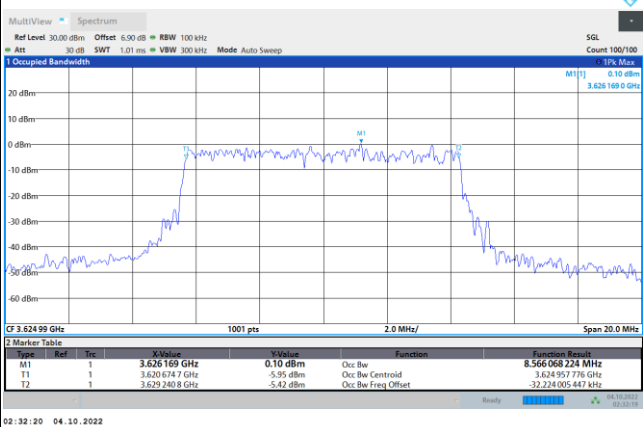
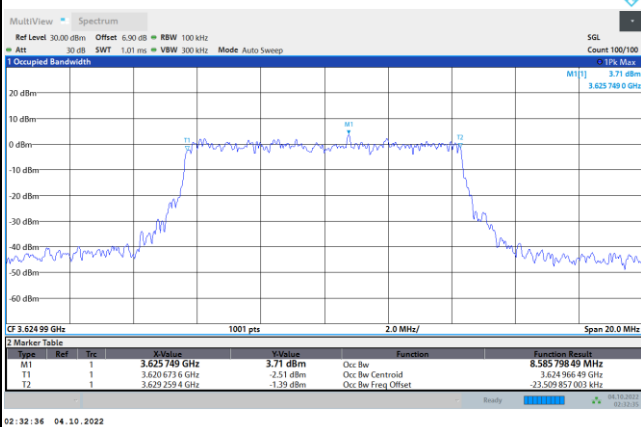
QPSK

16QAM



64QAM

256QAM

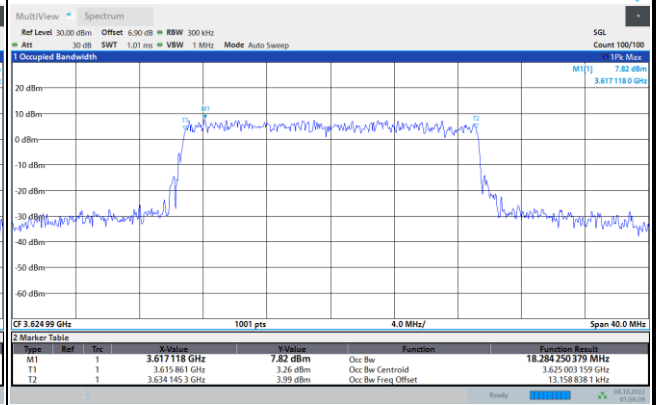
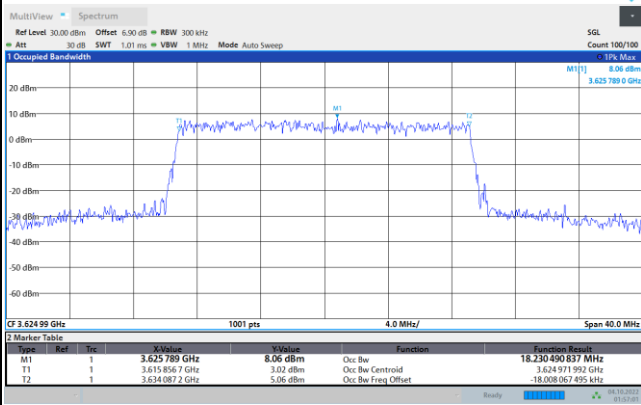




FR1 n48 / 20MHz / CP OFDM / Middle Channel / Full RB

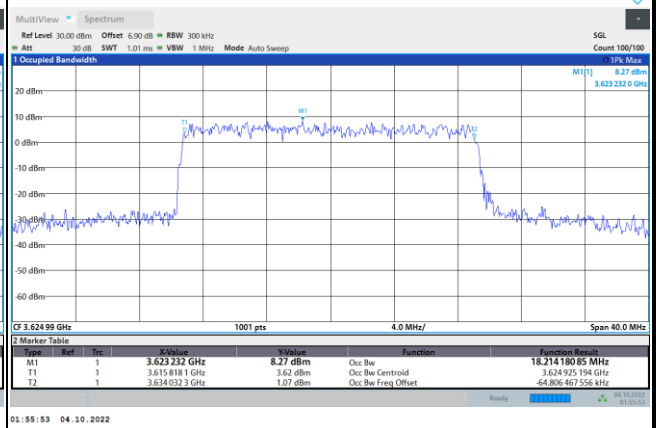
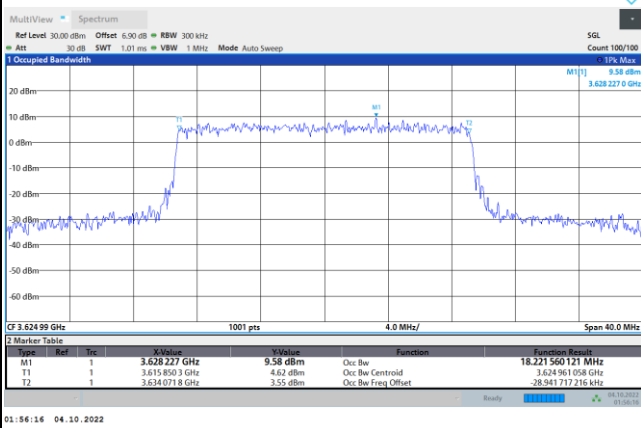
QPSK

16QAM



64QAM

256QAM





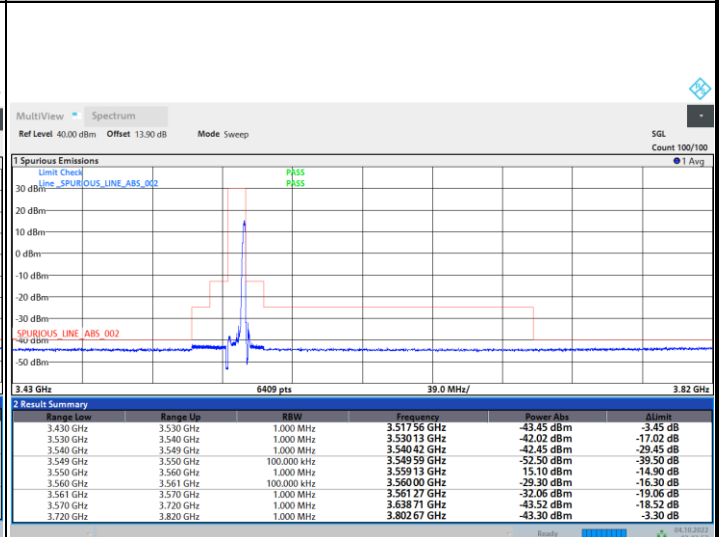
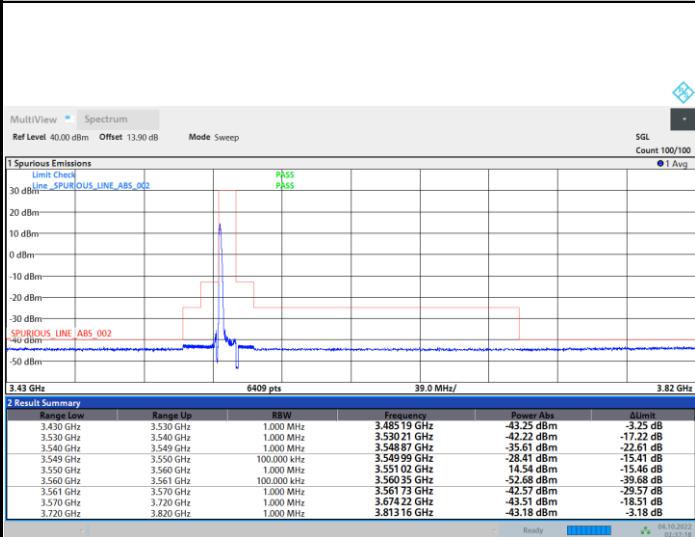
Unwanted Emission (MASK)

FR1 n48 / 10MHz / CP OFDM / QPSK

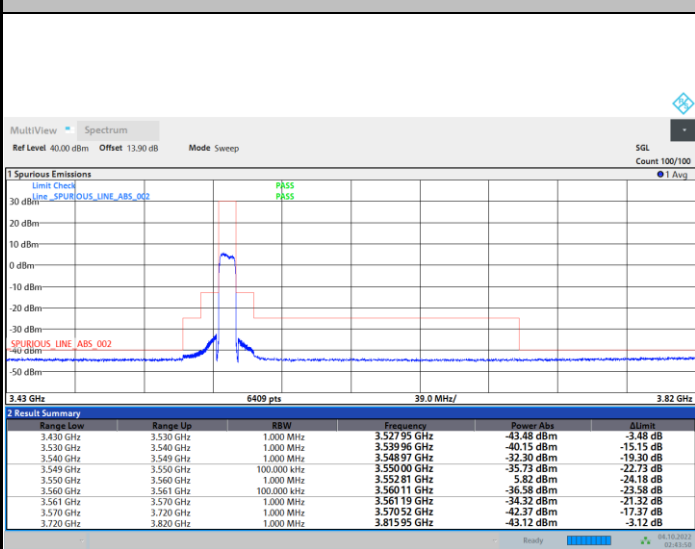
Lowest Channel

1RB0

1RBmax



Full RB



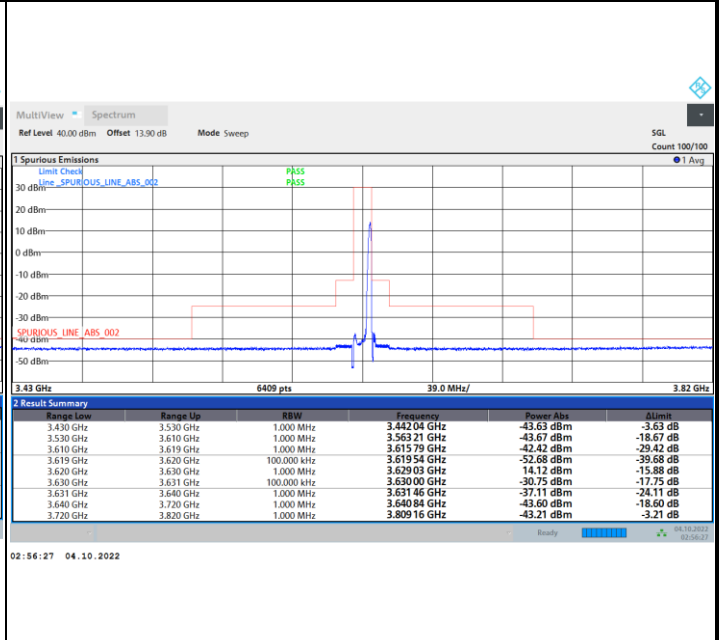
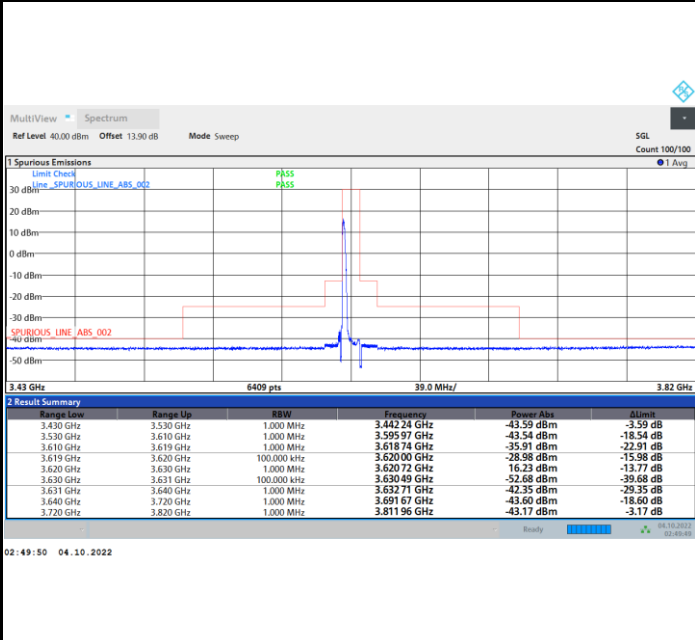


FR1 n48 / 10MHz / CP OFDM / QPSK

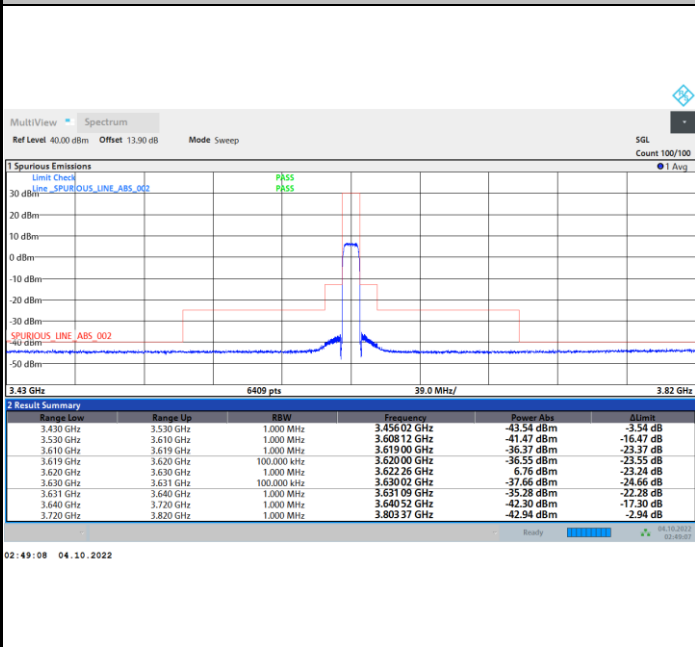
Middle Channel

1RB0

1RBmax



Full RB



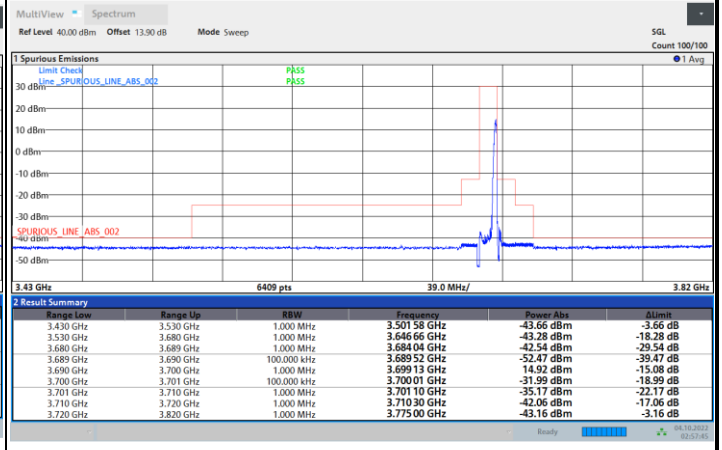
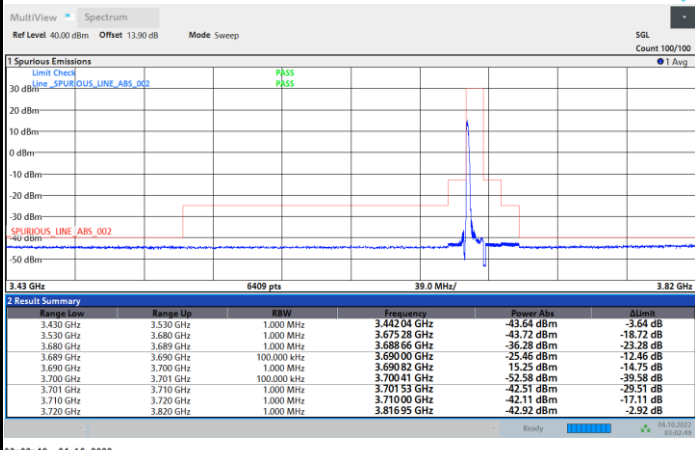


FR1 n48 / 10MHz / CP OFDM / QPSK

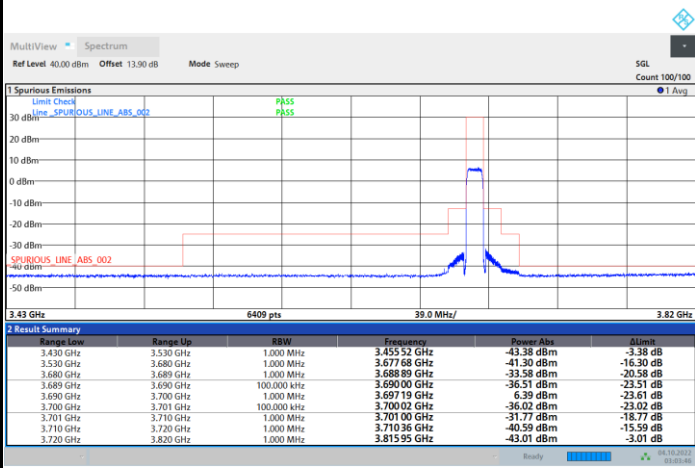
Highest Channel

1RB0

1RBmax



Full RB



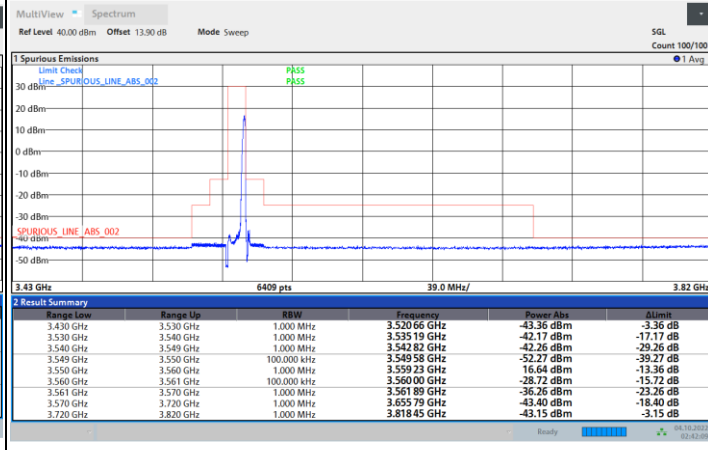
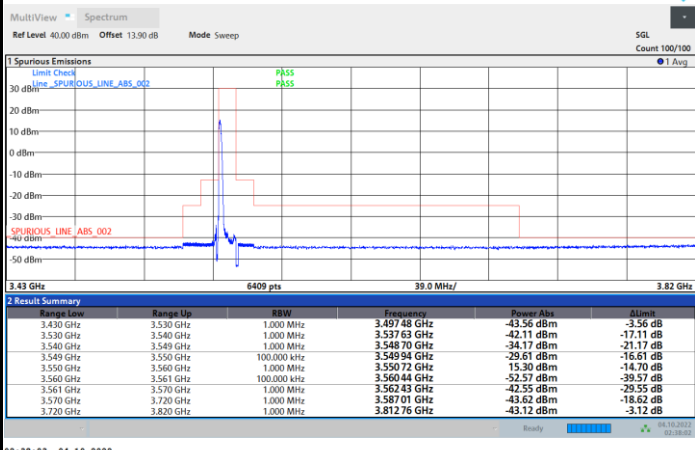


FR1 n48 / 10MHz / CP OFDM / 16QAM

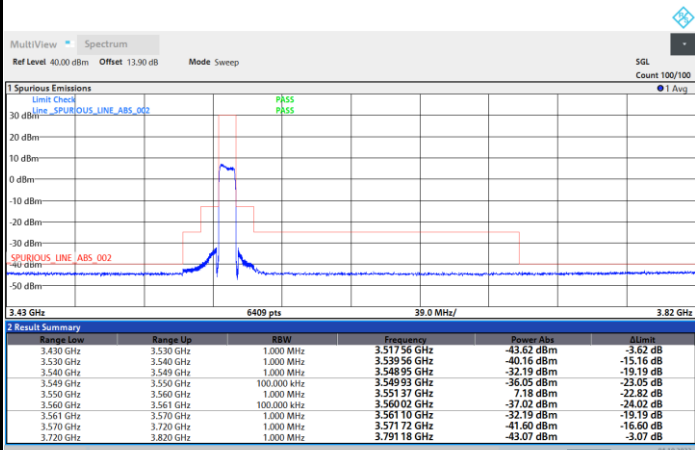
Lowest Channel

1RB0

1RBmax



Full RB



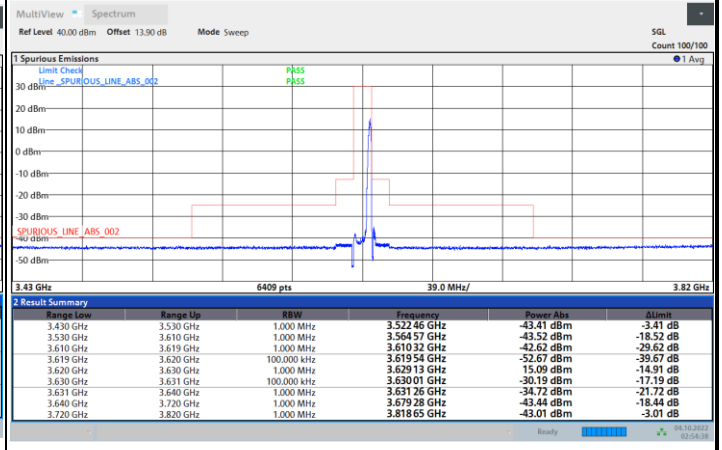
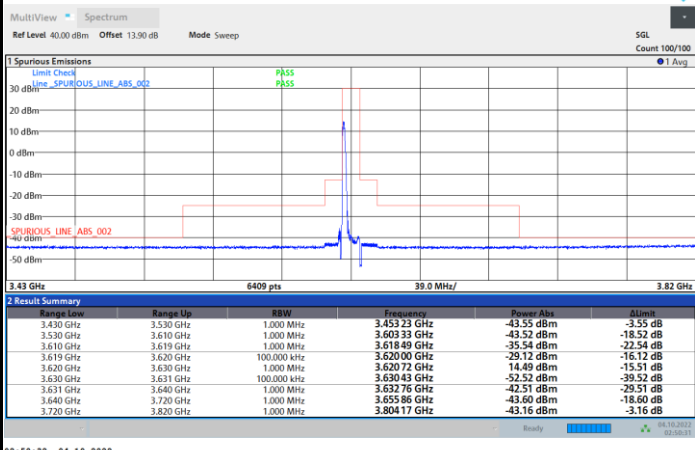


FR1 n48 / 10MHz / CP OFDM / 16QAM

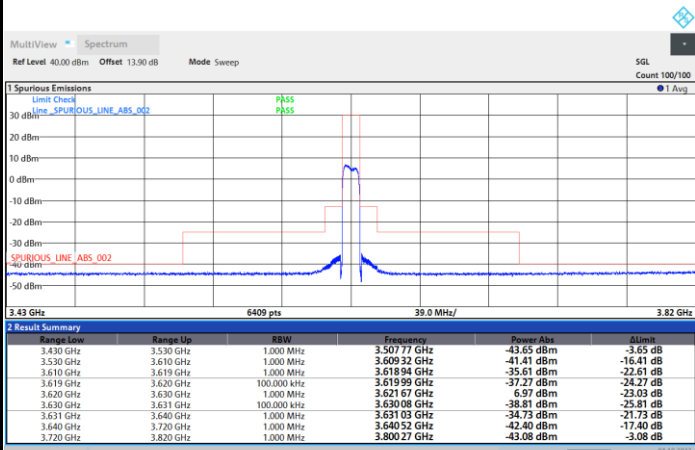
Middle Channel

1RB0

1RBmax



Full RB



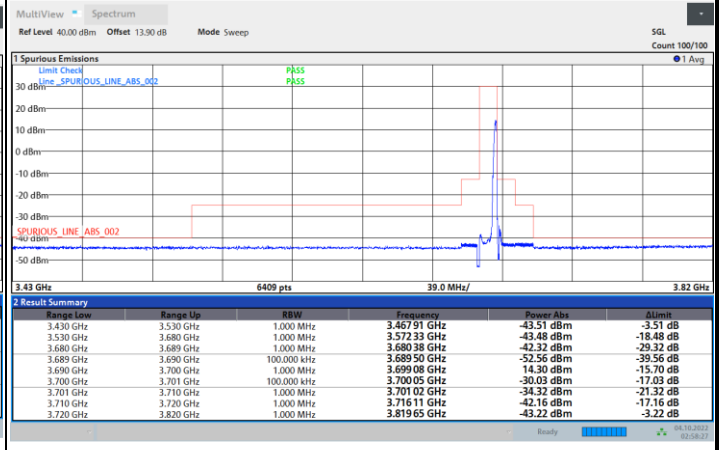
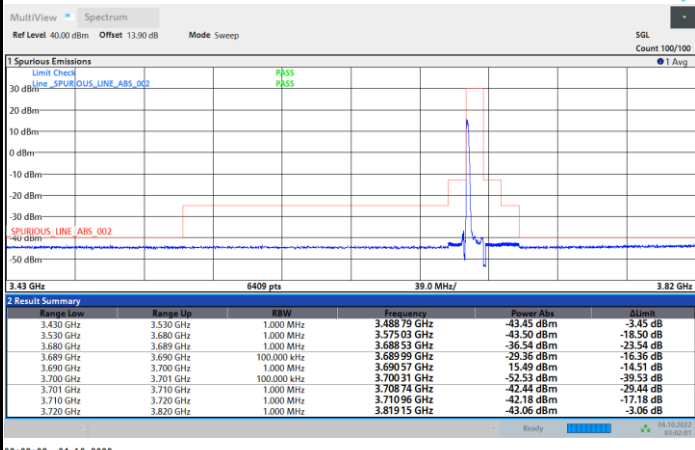


FR1 n48 / 10MHz / CP OFDM / 16QAM

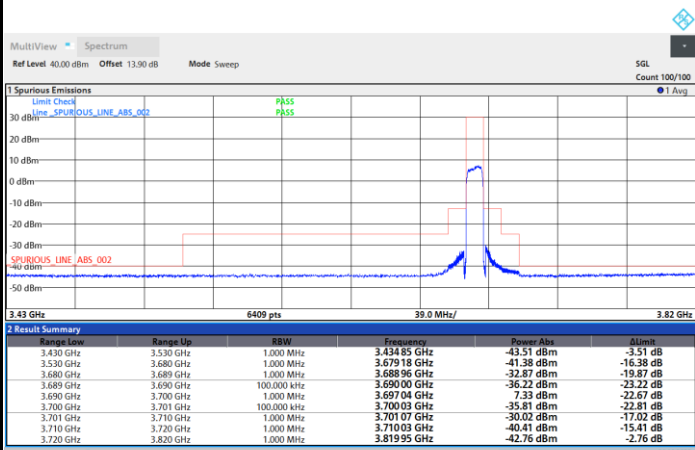
Highest Channel

1RB0

1RBmax



Full RB



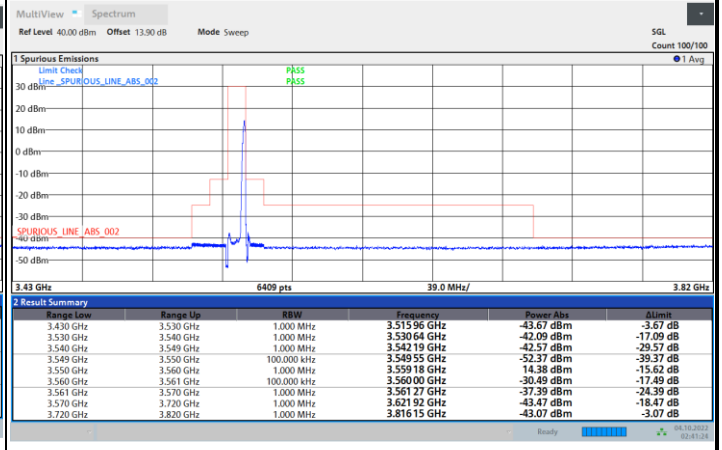
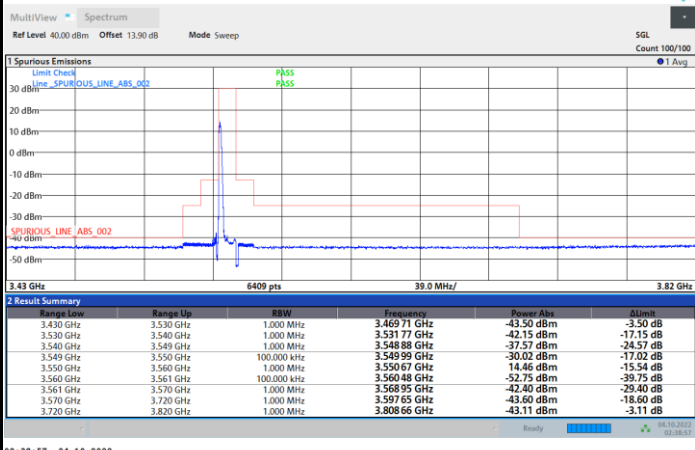


FR1 n48 / 10MHz / CP OFDM / 64QAM

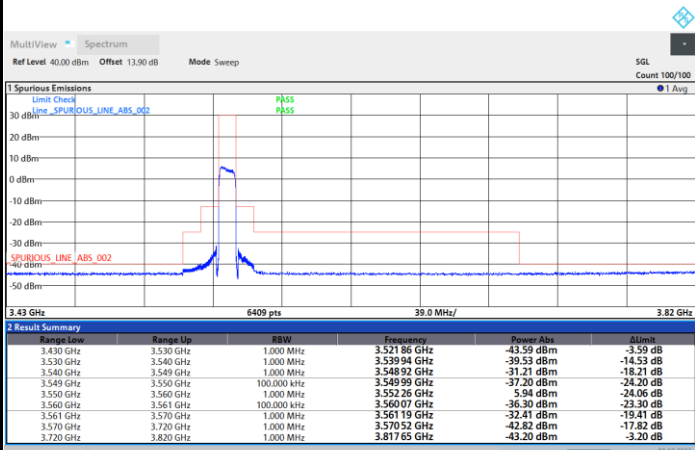
Lowest Channel

1RB0

1RBmax



Full RB



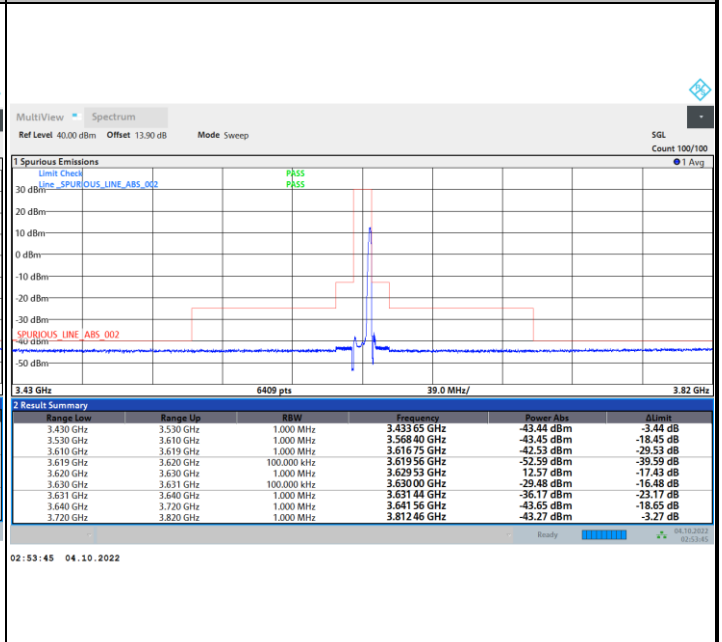
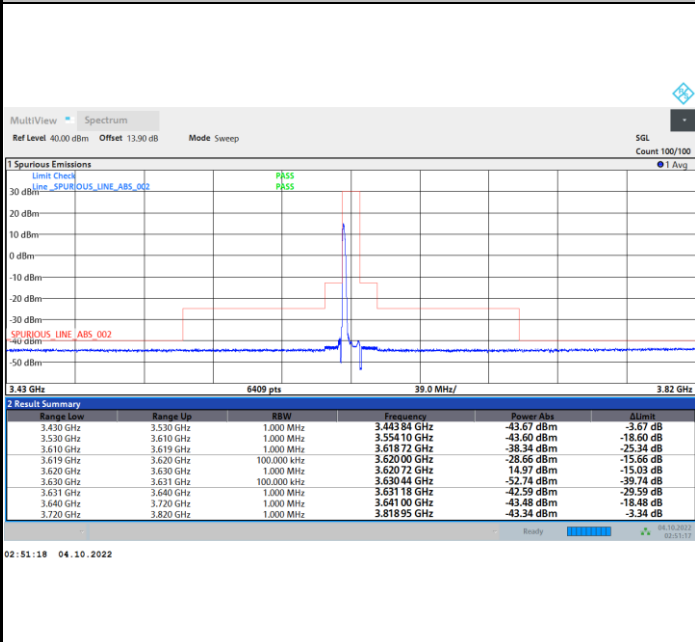


FR1 n48 / 10MHz / CP OFDM / 64QAM

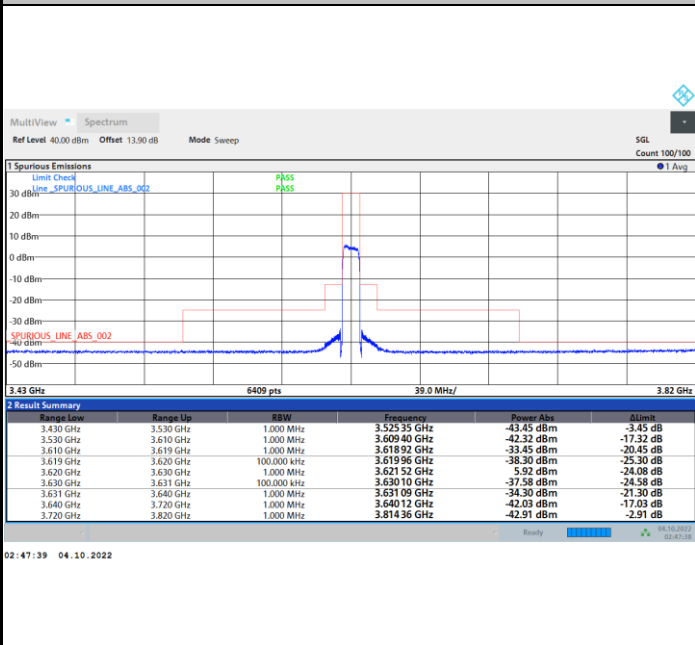
Middle Channel

1RB0

1RBmax



Full RB



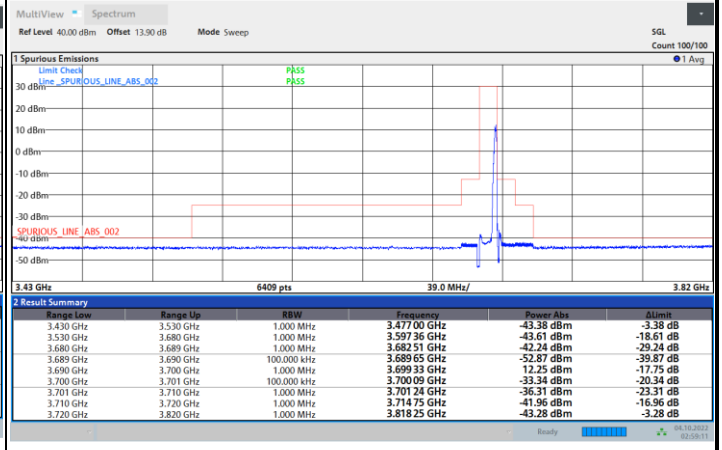
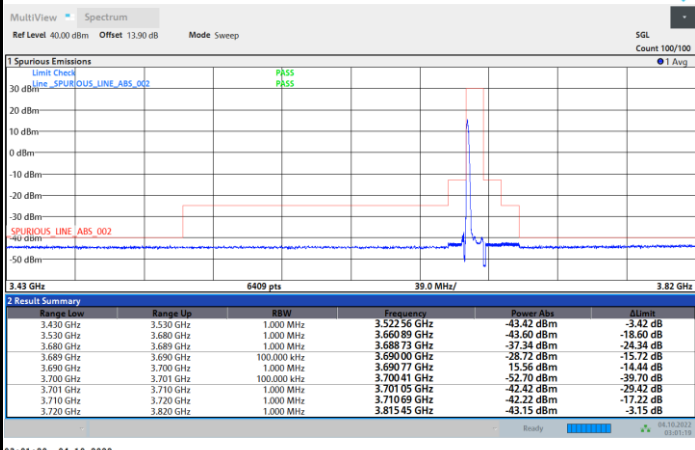


FR1 n48 / 10MHz / CP OFDM / 64QAM

Highest Channel

1RB0

1RBmax



Full RB

