

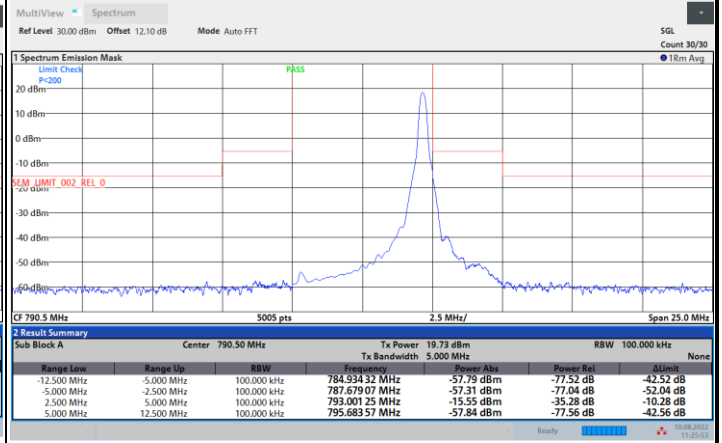
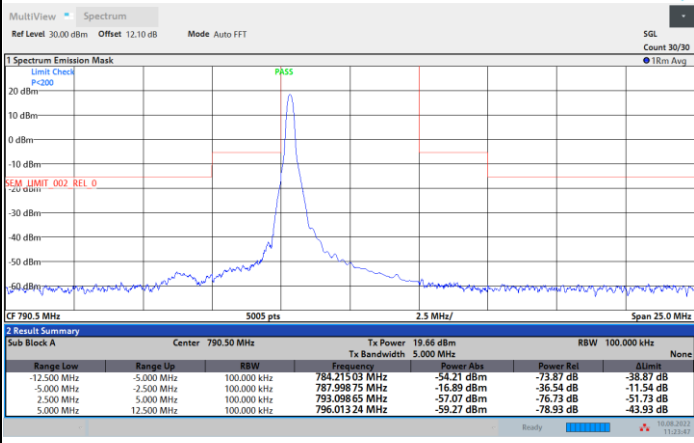


FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

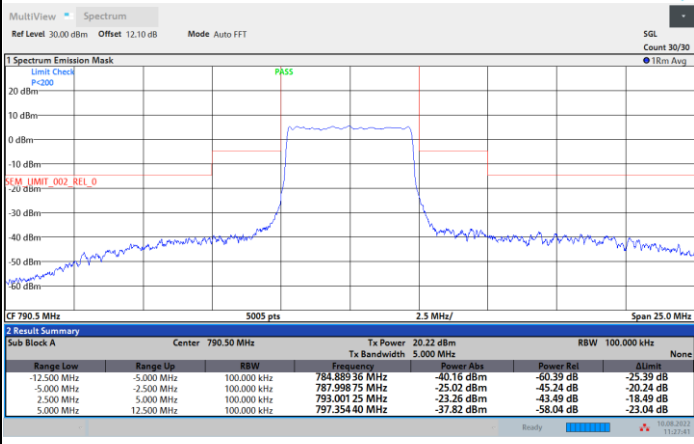
Lowest Channel

1RB0

1RBmax



Full RB



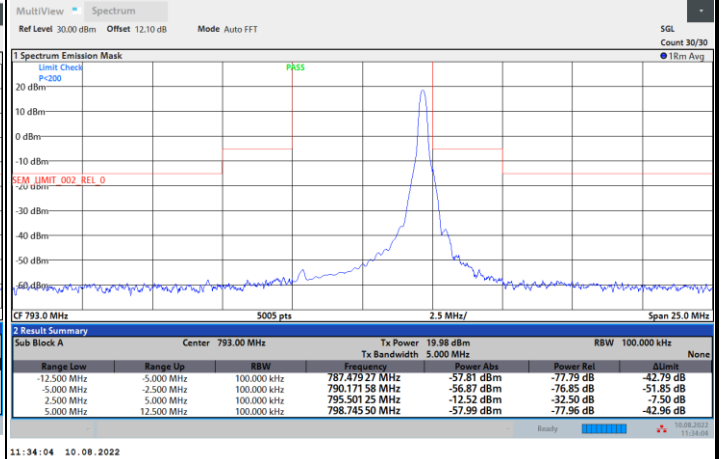
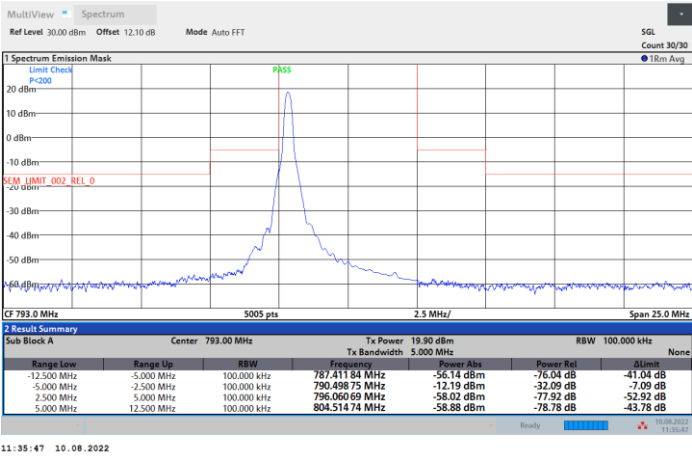


FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

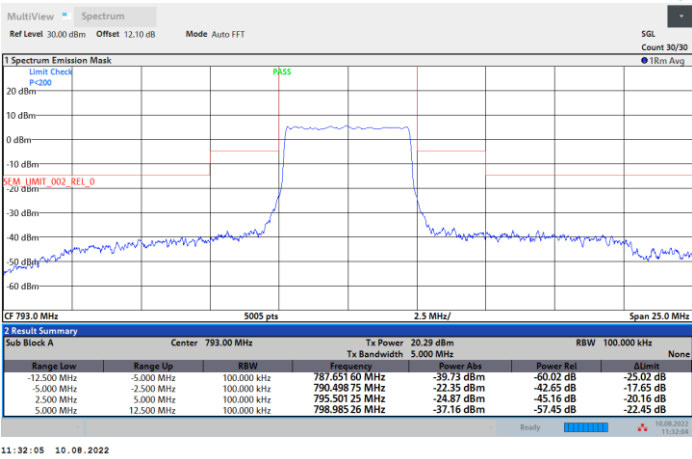
Middle Channel

1RB0

1RBmax



Full RB



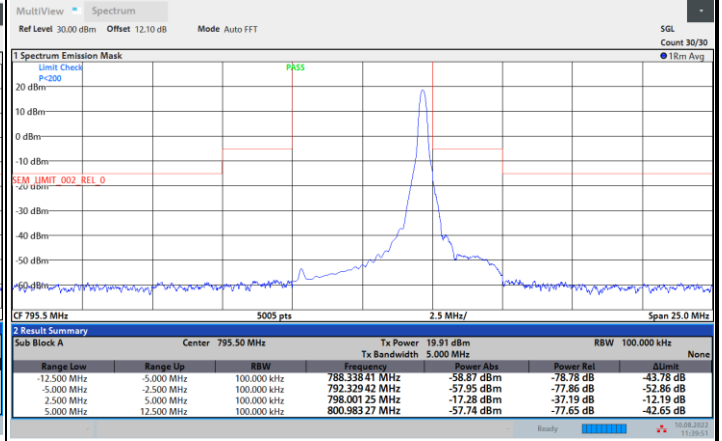
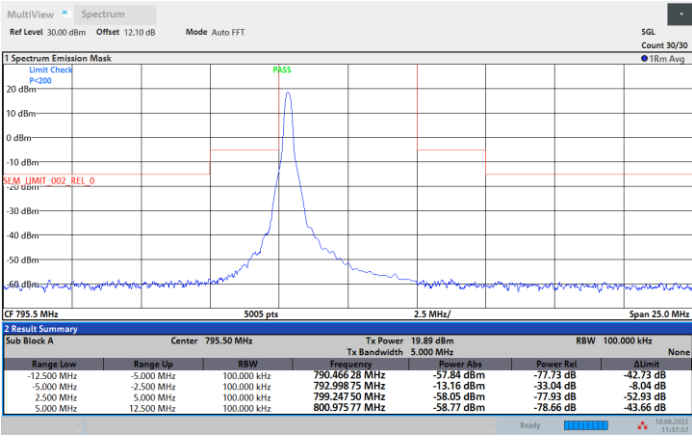


FR1 n14 / 5MHz / DFT-S OFDM / 16QAM

Highest Channel

1RB0

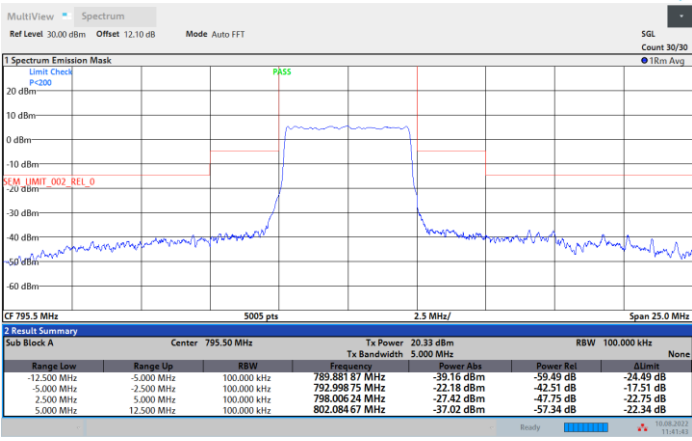
1RBmax



11:37:57 10.08.2022

11:39:52 10.08.2022

Full RB



11:41:44 10.08.2022

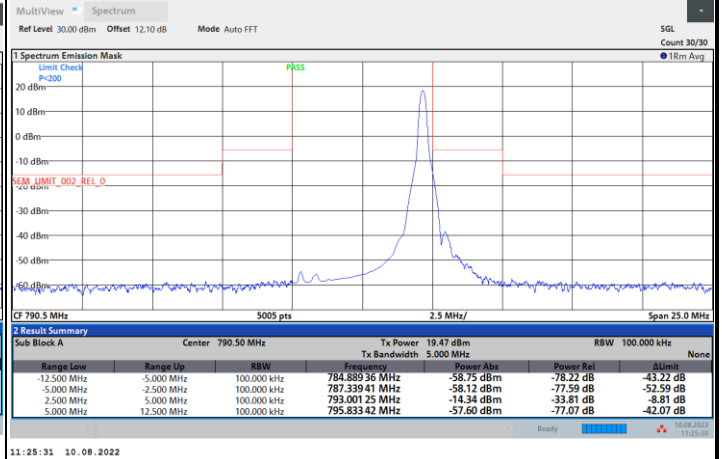
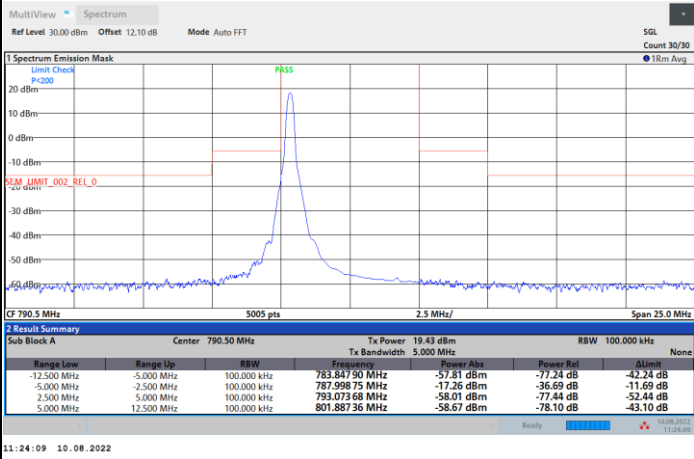


FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

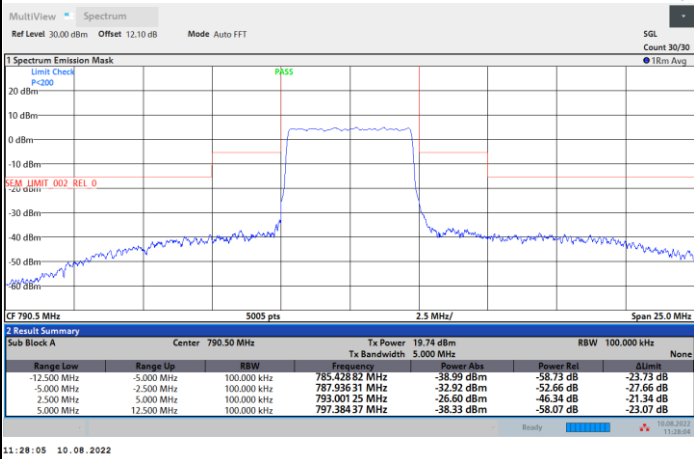
Lowest Channel

1RB0

1RBmax



Full RB



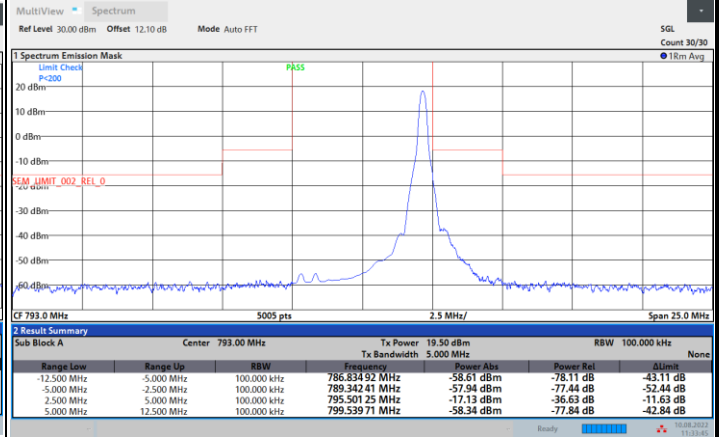
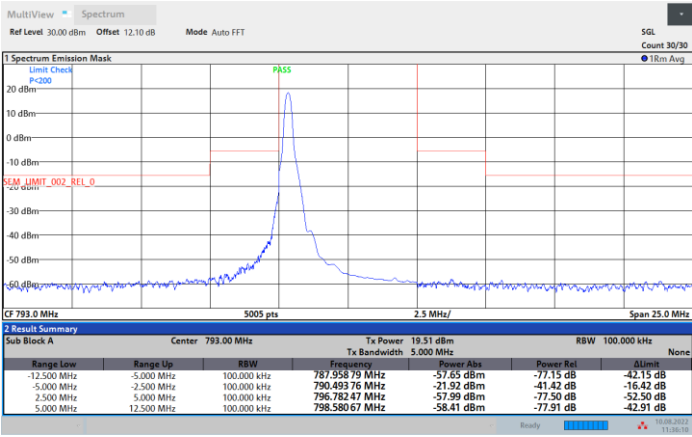


FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

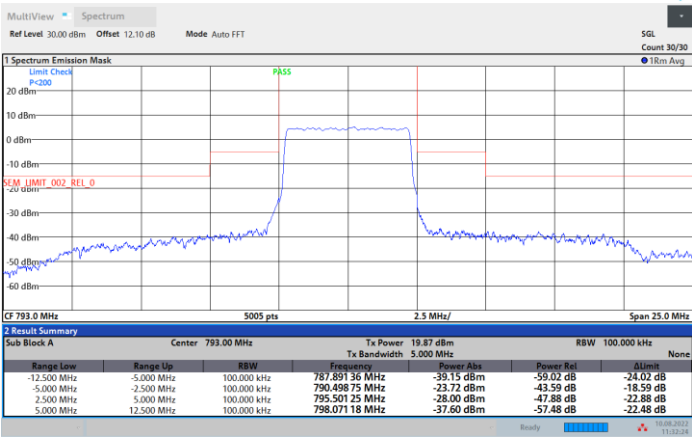
Middle Channel

1RB0

1RBmax



Full RB



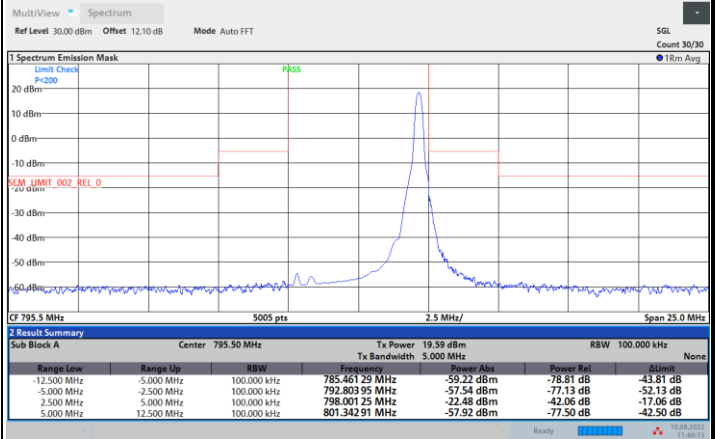
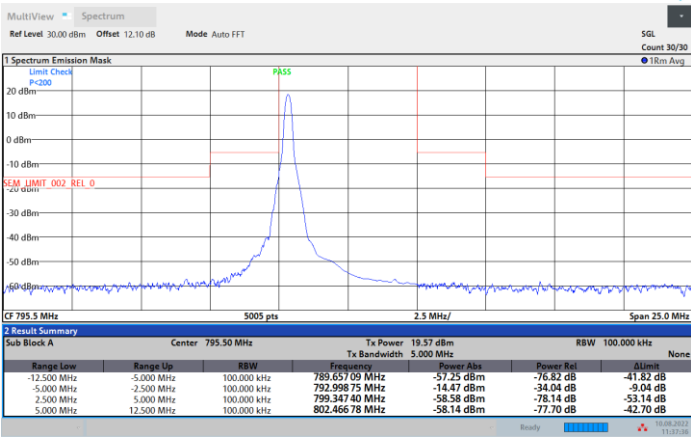


FR1 n14 / 5MHz / DFT-S OFDM / 64QAM

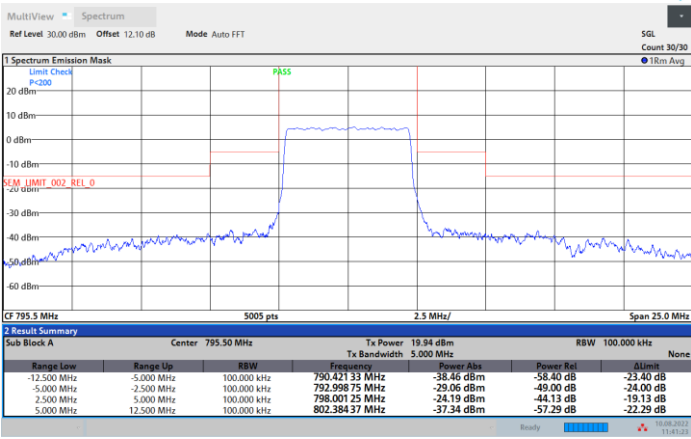
Highest Channel

1RB0

1RBmax



Full RB



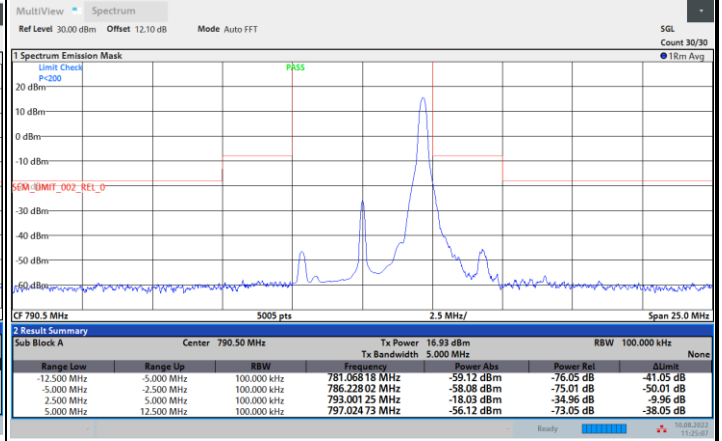
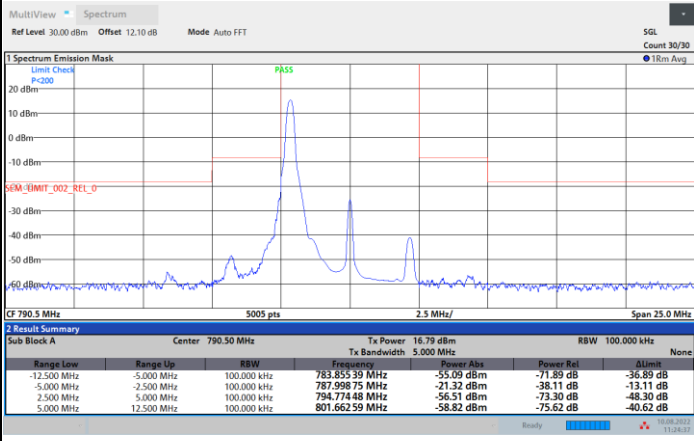


FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

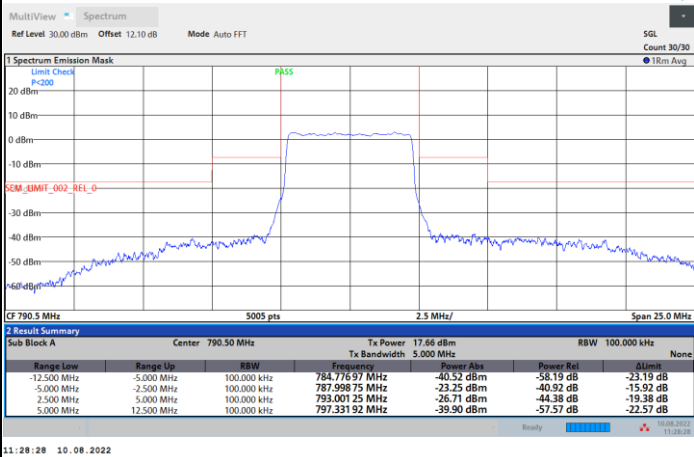
Lowest Channel

1RB0

1RBmax



Full RB



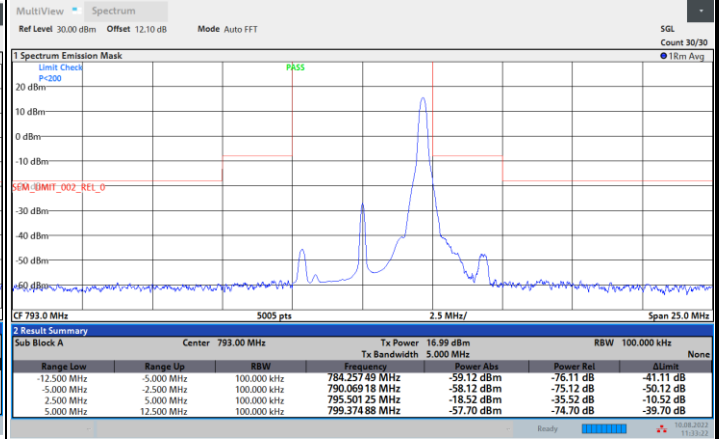
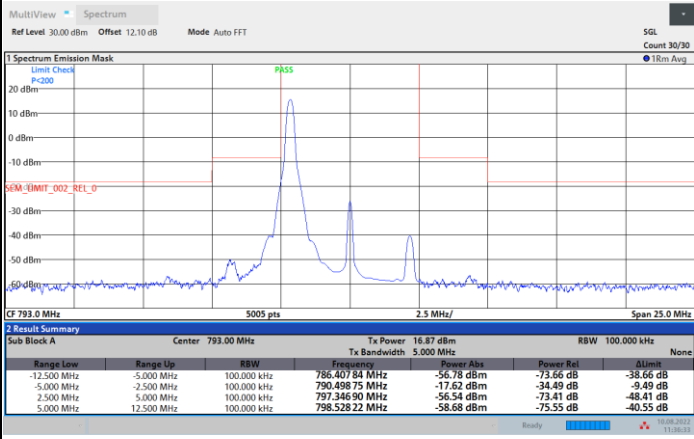


FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

Middle Channel

1RB0

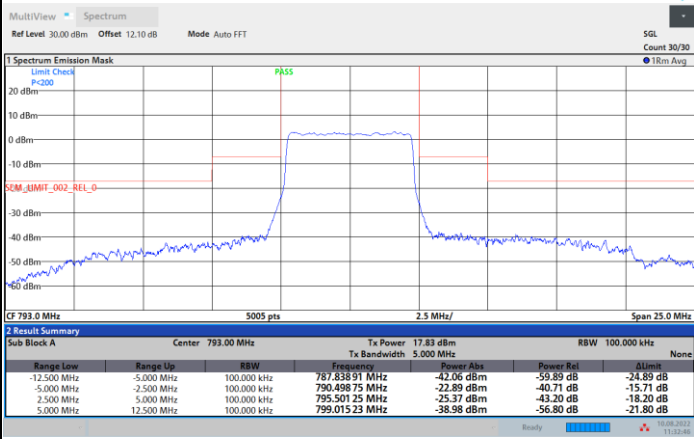
1RBmax



11:36:34 10.08.2022

11:33:22 10.08.2022

Full RB



11:32:47 10.08.2022

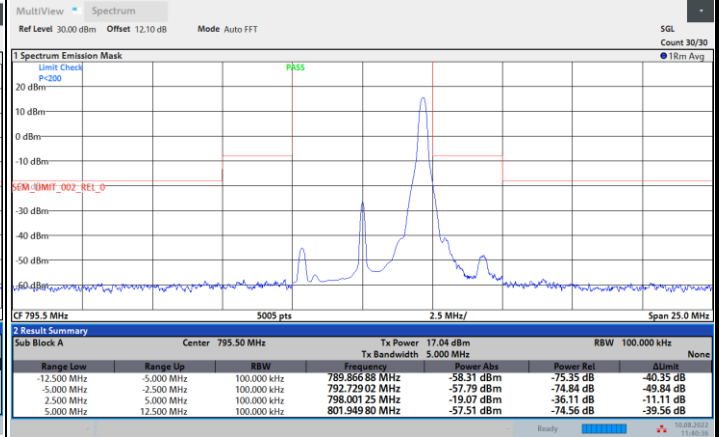
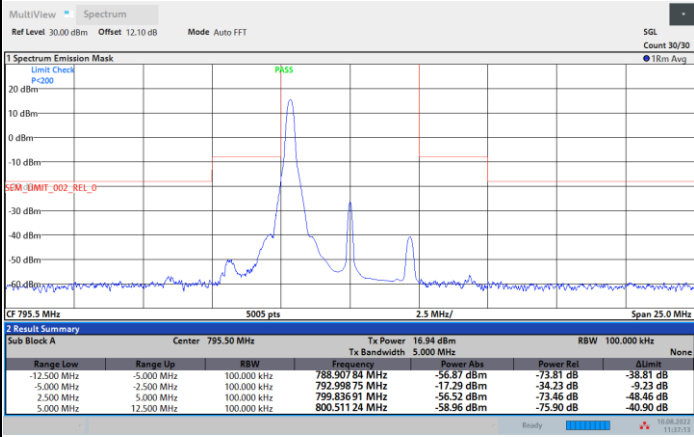


FR1 n14 / 5MHz / DFT-S OFDM / 256QAM

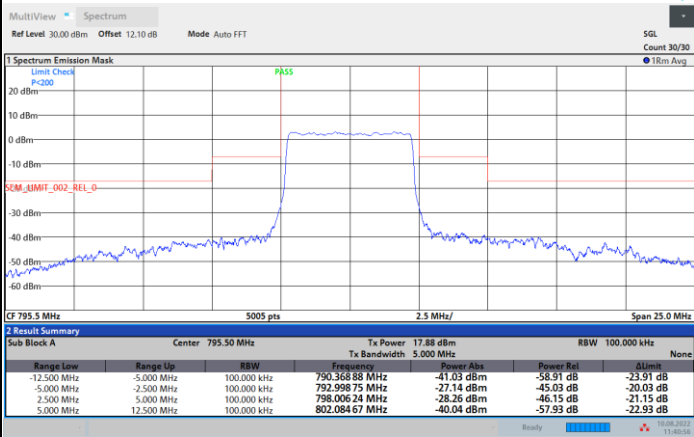
Highest Channel

1RB0

1RBmax



Full RB

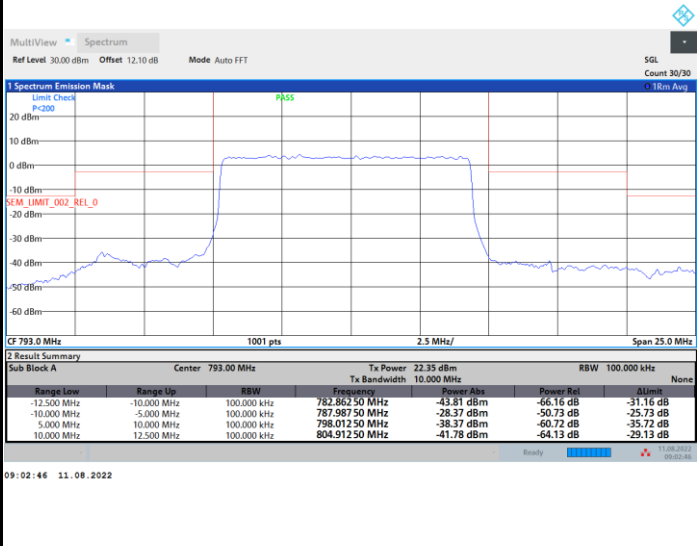




FR1 n14 / 10MHz / DFT-S OFDM / BPSK

Middle Channel

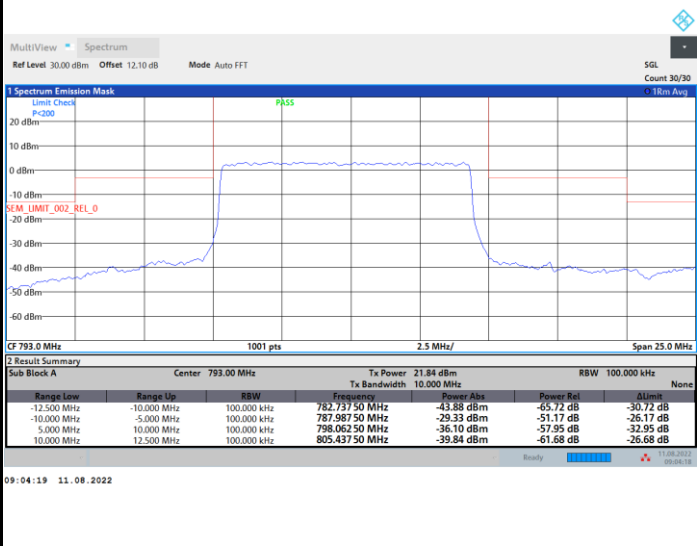
Full RB



FR1 n14 / 10MHz / DFT-S OFDM / QPSK

Middle Channel

Full RB

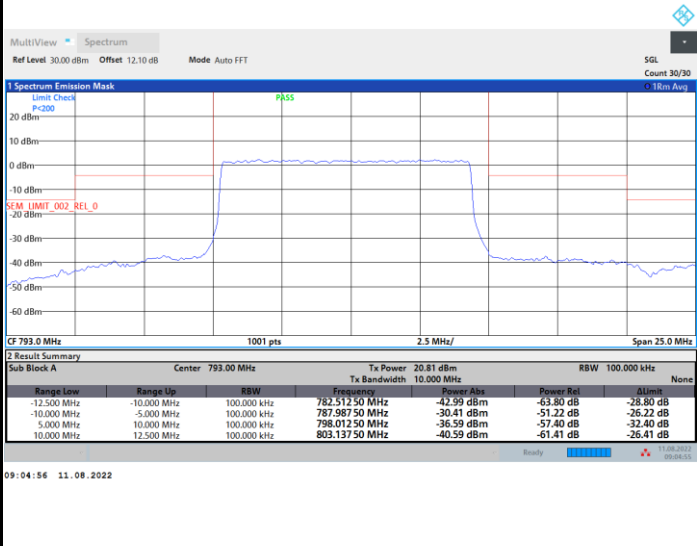




FR1 n14 / 10MHz / DFT-S OFDM / 16QAM

Middle Channel

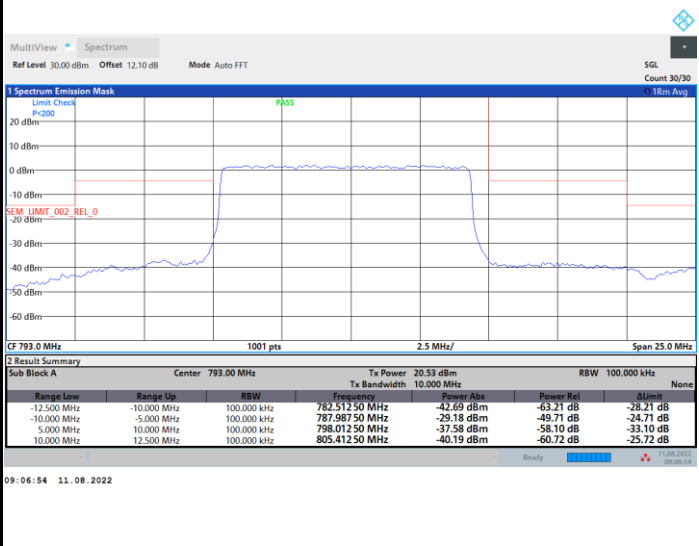
Full RB



FR1 n14 / 10MHz / DFT-S OFDM / 64QAM

Middle Channel

Full RB

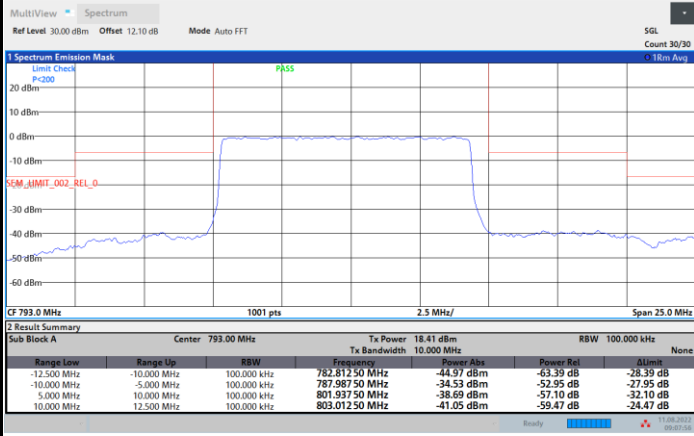




FR1 n14 / 10MHz / DFT-S OFDM / 256QAM

Middle Channel

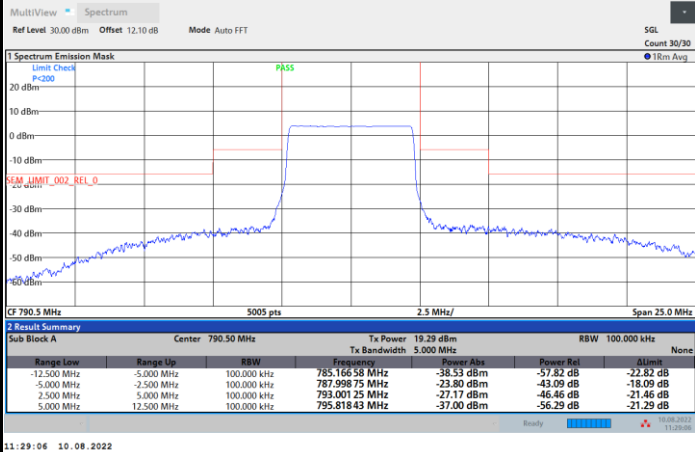
Full RB





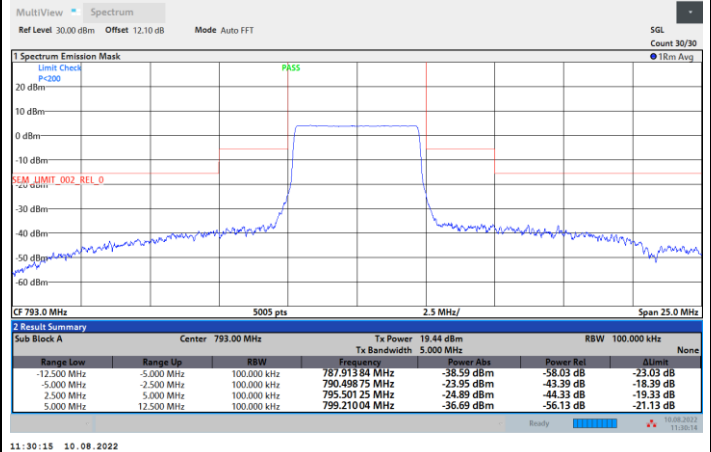
FR1 n14 / 5MHz / CP OFDM / QPSK / Full RB

Lowest Channel



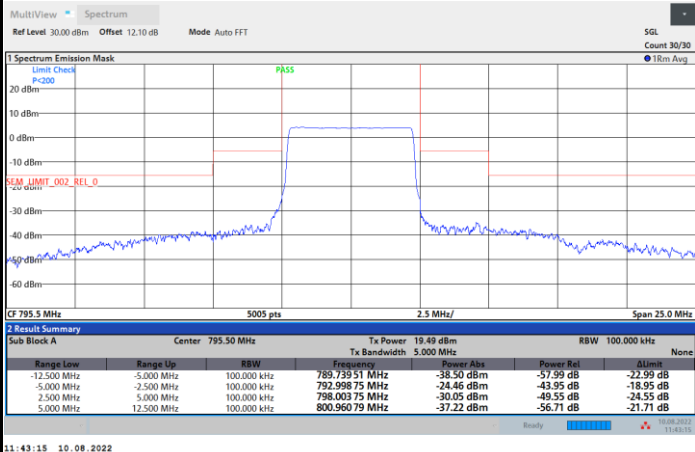
11:29:06 10.08.2022

Middle Channel



11:30:15 10.08.2022

Highest Channel

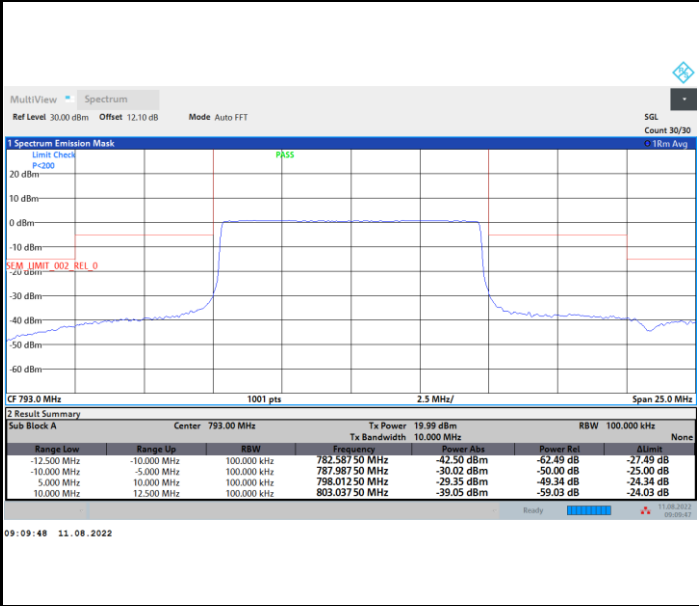


11:43:15 10.08.2022



FR1 n14 / 10MHz / CP OFDM / QPSK / Full RB

Middle Channel



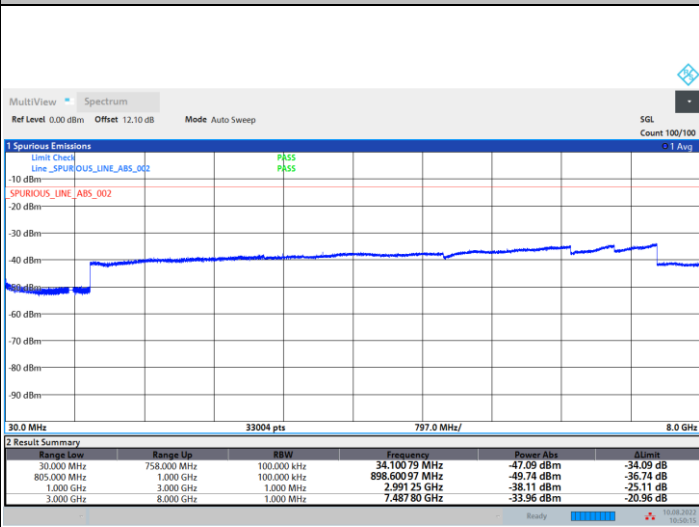
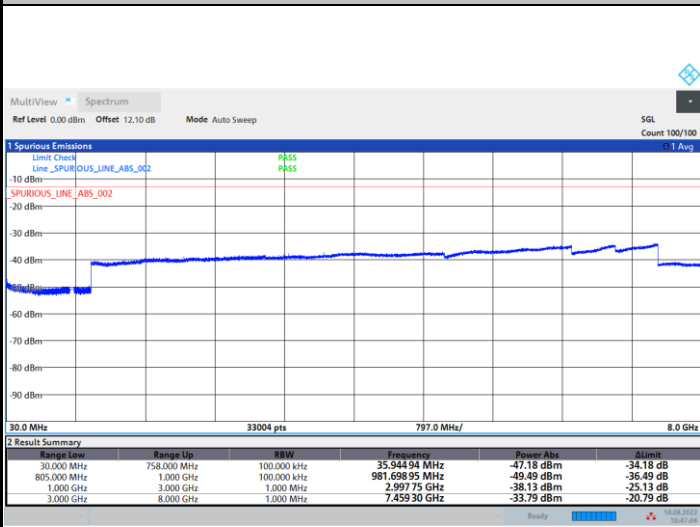


Conducted Spurious Emission

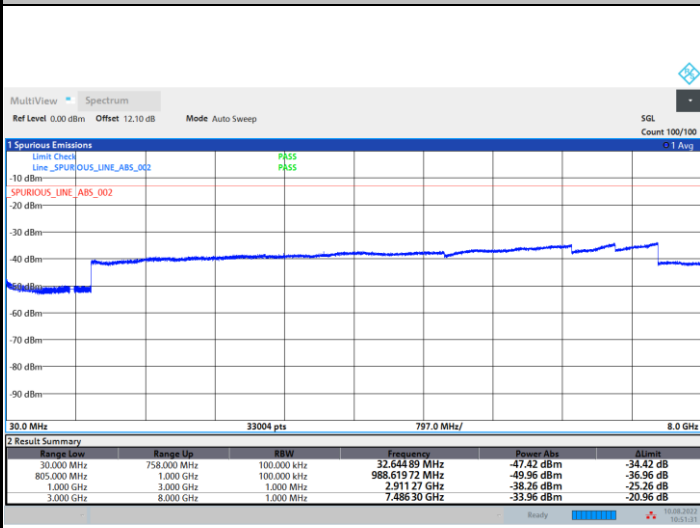
FR1 n14 / 5MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 n14 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0010	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0000	
0	Normal Voltage	0.0001	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0026	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

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.



Appendix B. Test Results of Radiated Test

<Ant. 0>

5G NR n14

5G NR n14/ 5MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	1576	-55.04	-42.15	-12.89	-66.36	-57.03	0.95	5.09	H
	2360	-57.43	-13	-44.43	-74.17	-59.01	1.25	4.98	H
	3152	-57.10	-13	-44.10	-75.74	-59.92	1.50	6.47	H
									H
									H
									H
									H
	1576	-51.37	-42.15	-9.22	-63.19	-53.36	0.95	5.09	V
	2360	-57.28	-13	-44.28	-74.43	-58.86	1.25	4.98	V
	3152	-56.21	-13	-43.21	-75.49	-59.03	1.50	6.47	V
									V
									V
									V
									V



Middle	1584	-55.13	-42.15	-12.98	-66.44	-57.10	0.95	5.06	H
	2368	-57.24	-13	-44.24	-73.98	-58.84	1.25	5.00	H
	3160	-57.40	-13	-44.40	-76.04	-60.26	1.50	6.50	H
									H
									H
									H
									H
	1584	-51.42	-42.15	-9.27	-63.23	-53.39	0.95	5.06	V
	2368	-58.24	-13	-45.24	-75.39	-59.84	1.25	5.00	V
	3160	-56.03	-13	-43.03	-75.31	-58.89	1.50	6.50	V
									V
									V
								V	
Highest	1584	-56.32	-42.15	-14.17	-67.63	-58.29	0.95	5.06	H
	2376	-57.09	-13	-44.09	-73.91	-58.72	1.25	5.03	H
	3176	-57.10	-13	-44.10	-75.81	-60.02	1.50	6.57	H
									H
									H
									H
									H
	1584	-50.71	-42.15	-8.56	-62.52	-52.68	0.95	5.06	V
	2376	-57.07	-13	-44.07	-74.30	-58.70	1.25	5.03	V
	3176	-56.77	-13	-43.77	-76.08	-59.69	1.50	6.57	V
									V
									V
								V	
								V	

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



5G NR n14/ 10MHz / PI/2 BPSK									
Channel	Frequency (MHz)	ERP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	1576	-64.03	-42.15	-21.88	-74.92	-66.02	0.95	5.09	H
	2360	-59.89	-13	-46.89	-72.76	-61.47	1.25	4.98	H
	3152	-58.62	-13	-45.62	-76.68	-61.44	1.50	6.47	H
									H
									H
									H
									H
	1576	-63.10	-42.15	-20.95	-74.92	-65.09	0.95	5.09	V
	2360	-55.61	-13	-42.61	-72.76	-57.19	1.25	4.98	V
	3152	-57.40	-13	-44.40	-76.68	-60.22	1.50	6.47	V
									V
									V
									V
									V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.