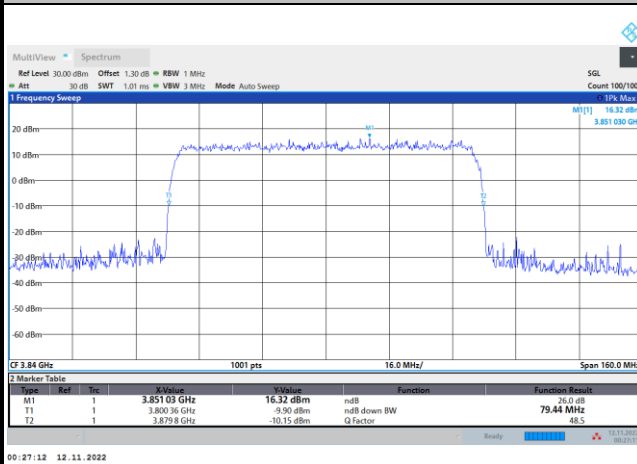


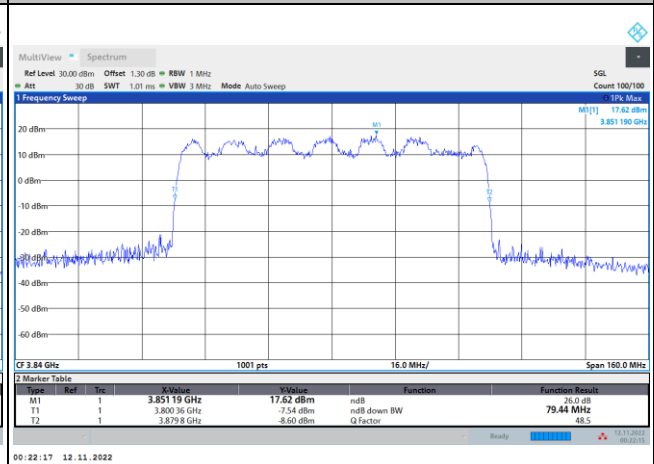


FR1 n77 / 80MHz / Middle Channel / 26dB BW

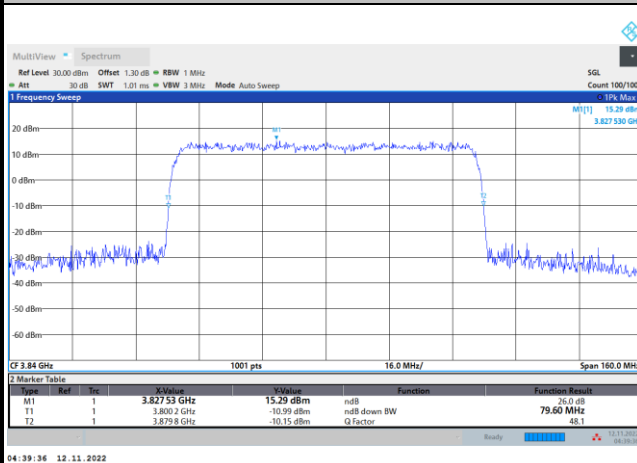
QPSK



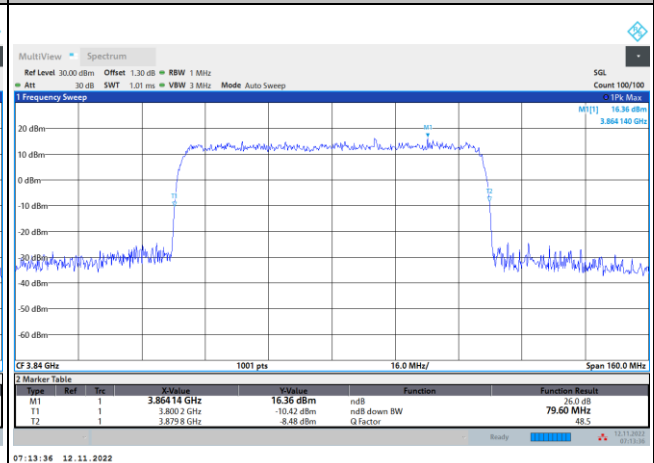
16QAM



64QAM



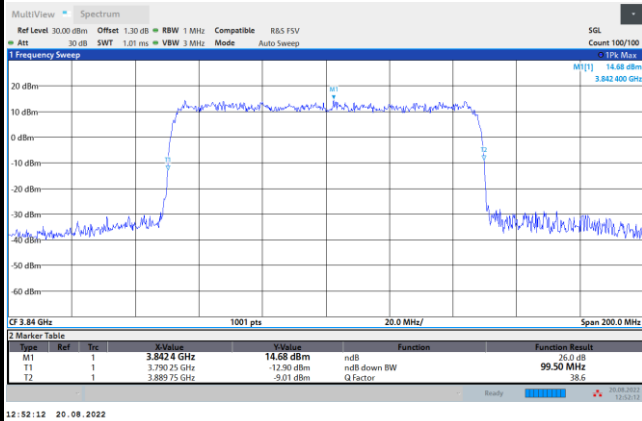
256QAM



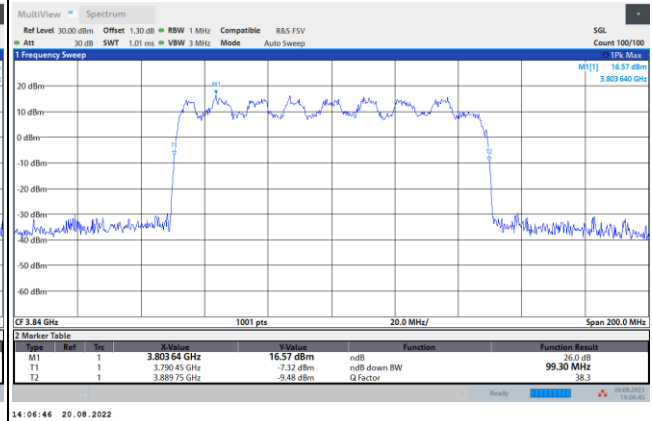


FR1 n77 / 100MHz / Middle Channel / 26dB BW

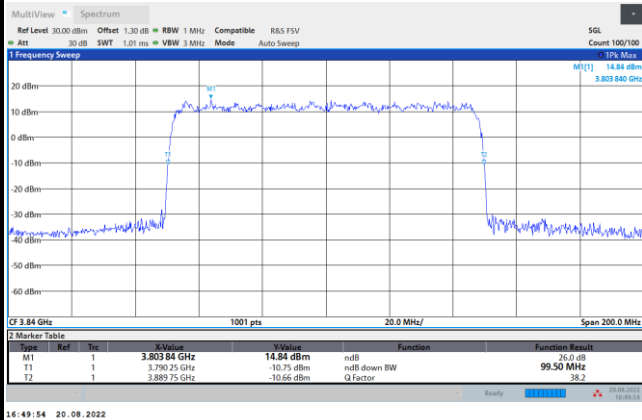
QPSK



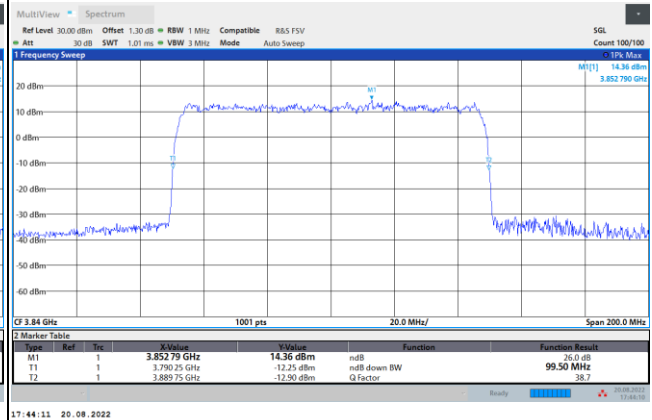
16QAM



64QAM



256QAM

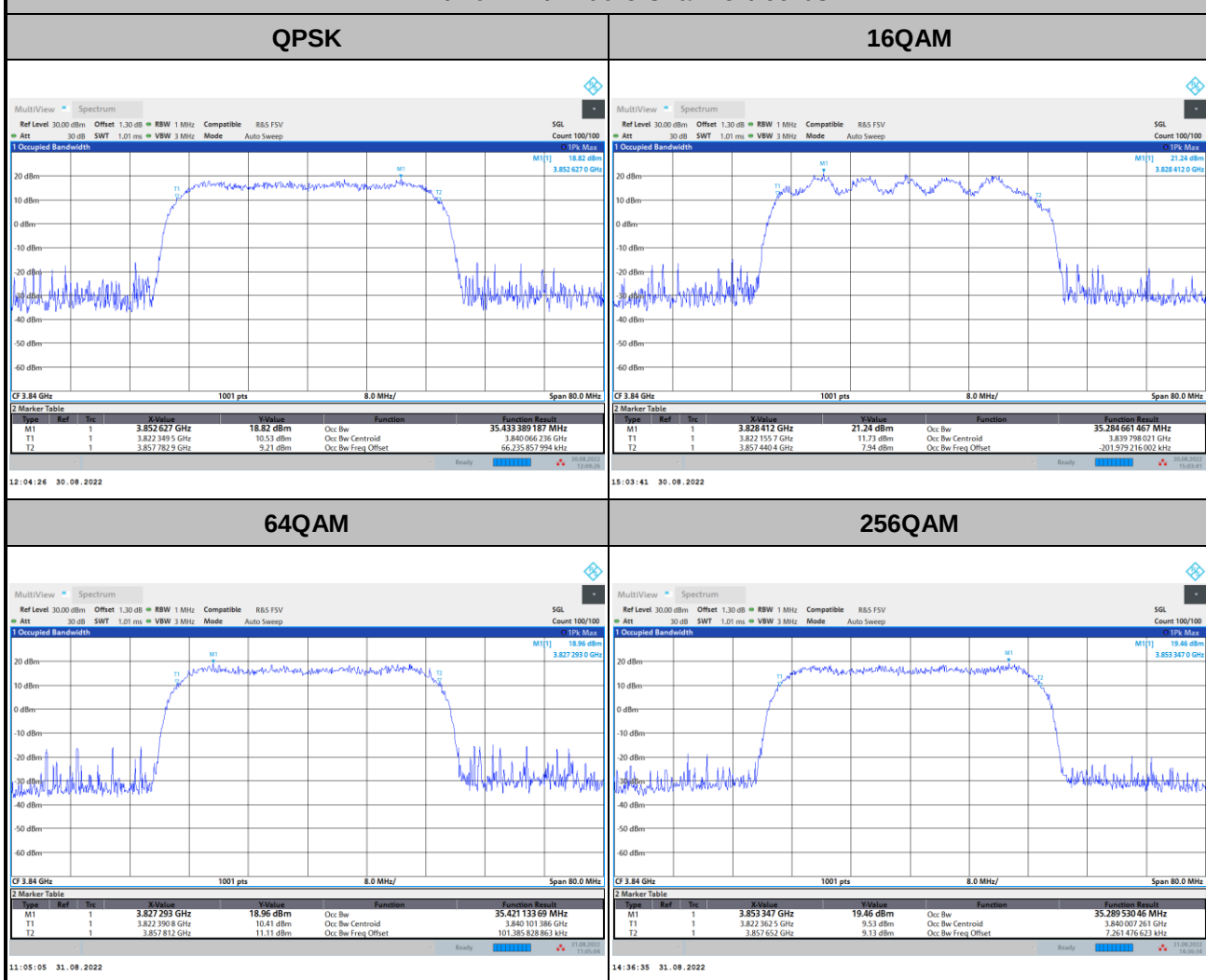




Occupied Bandwidth

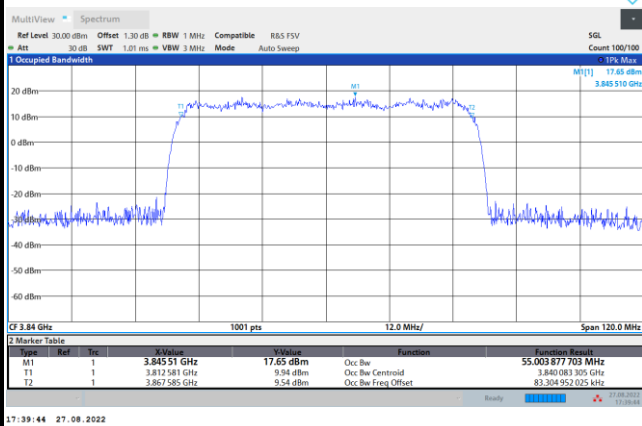
Mode	FR1 n77 : 99%OBW (MHz)					
BW	40MHz		60MHz		80MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	35.43	35.28	55.00	54.72	75.08	75.48
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	35.42	35.28	54.97	54.90	75.03	75.06
BW	100MHz					
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	94.18	93.92				
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	94.07	94.20				

FR1 n77 / 40MHz / Middle Channel / 99%OBW

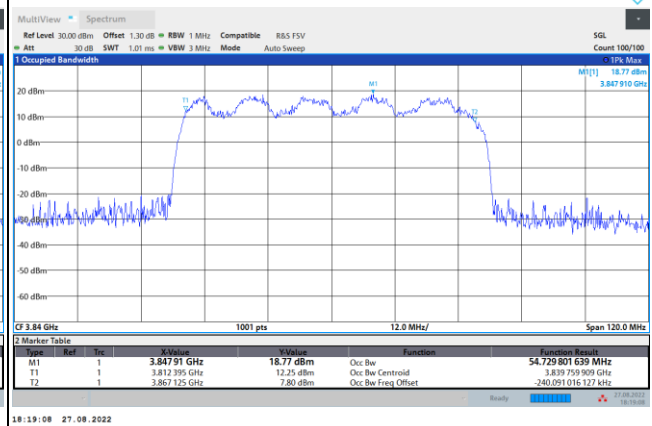


FR1 n77 / 60MHz / Middle Channel / 99%OBW

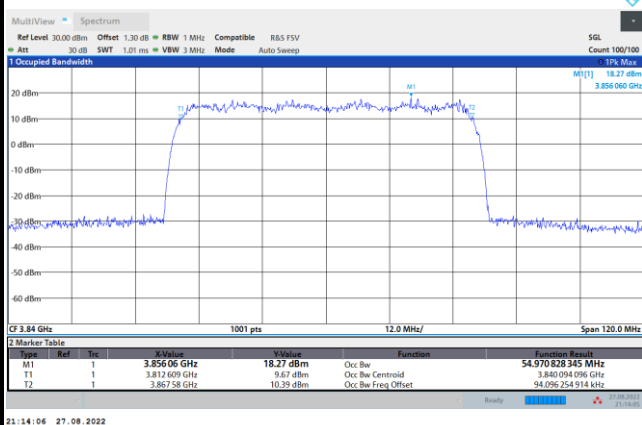
QPSK



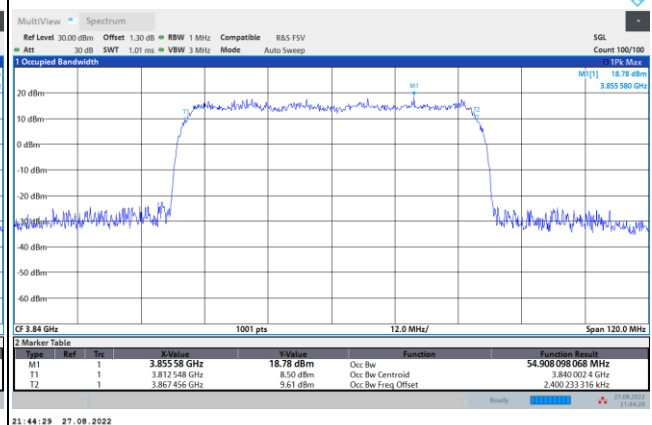
16QAM



64QAM

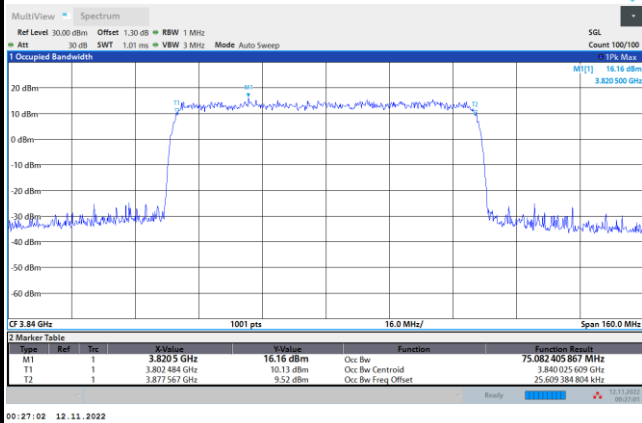


256QAM

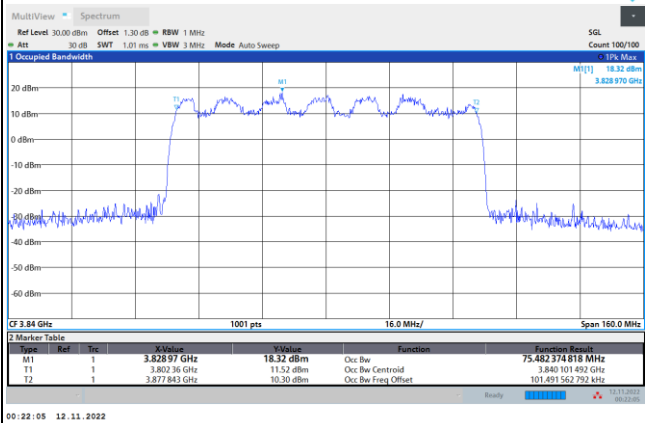


FR1 n77 / 80MHz / Middle Channel / 99%OBW

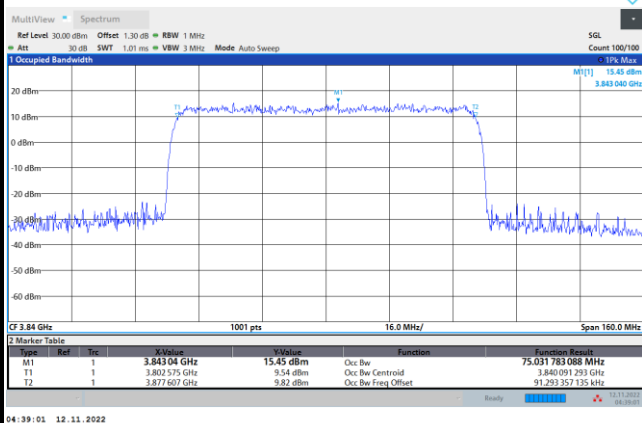
QPSK



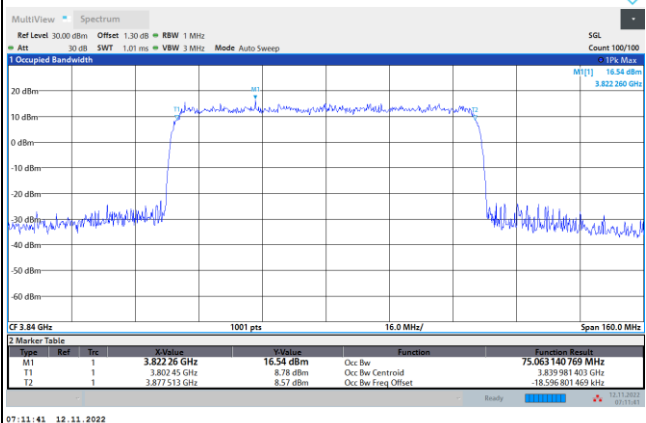
16QAM



64QAM

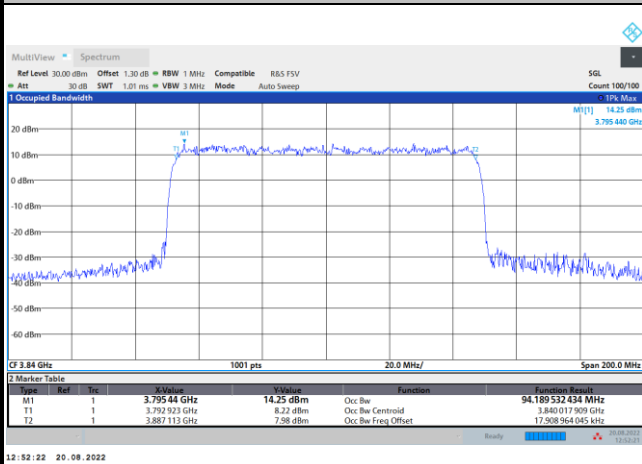


256QAM

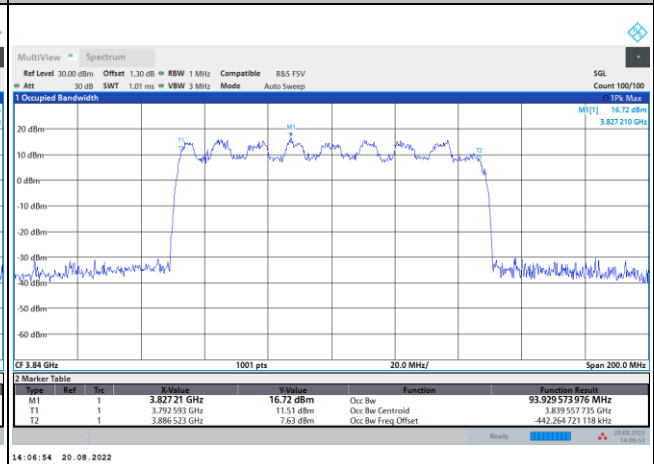


FR1 n77 / 100MHz / Middle Channel / 99%OBW

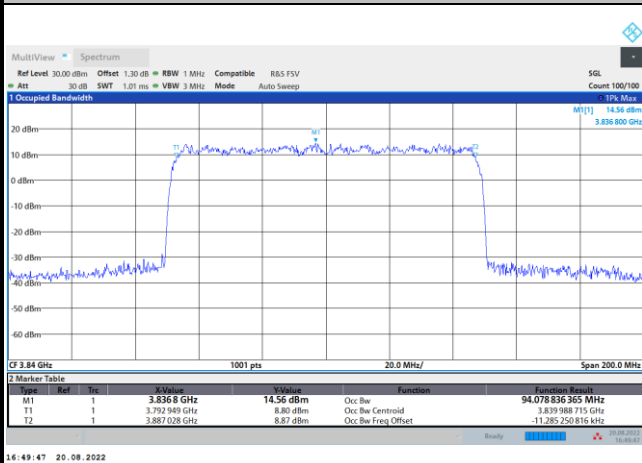
QPSK



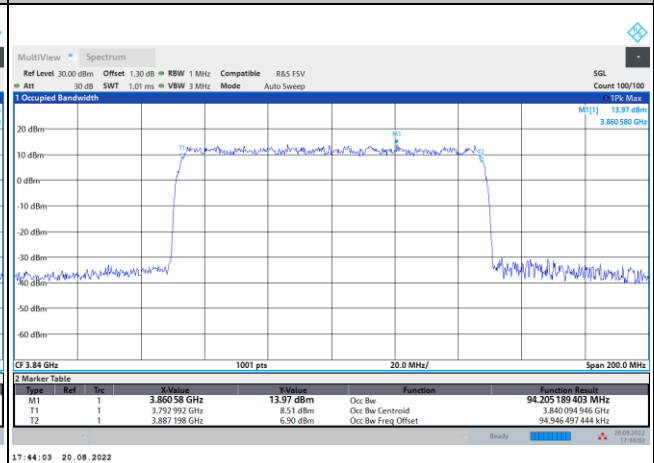
16QAM



64QAM



256QAM

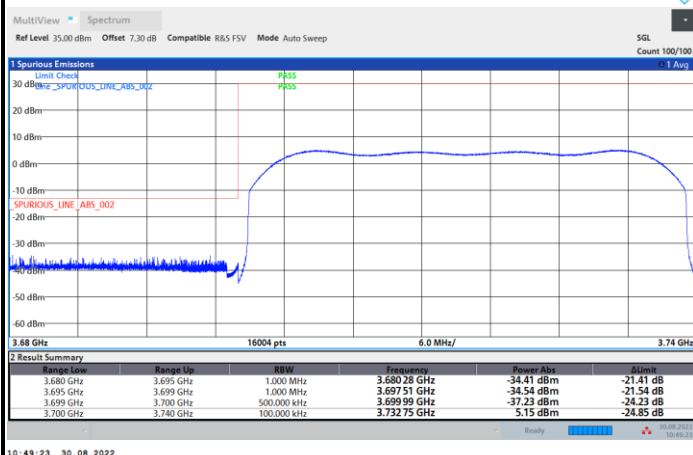




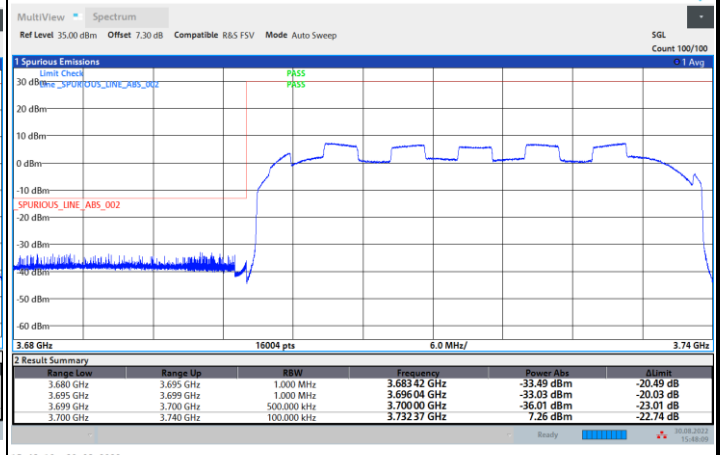
Conducted Band Edge

FR1 n77 / 40MHz / Lowest Band Edge / Full RB

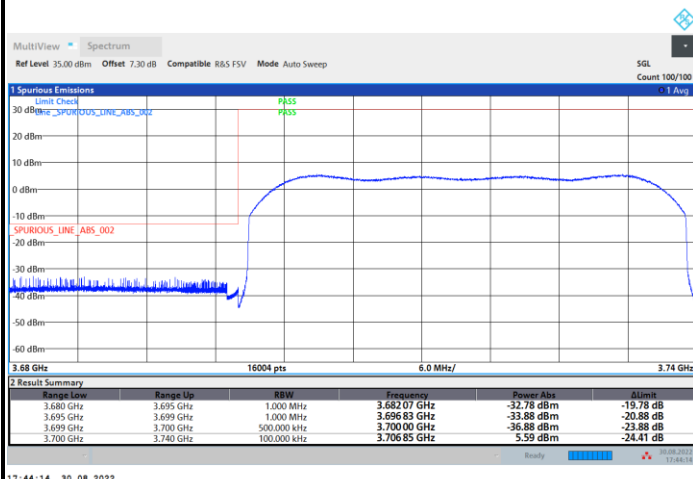
QPSK



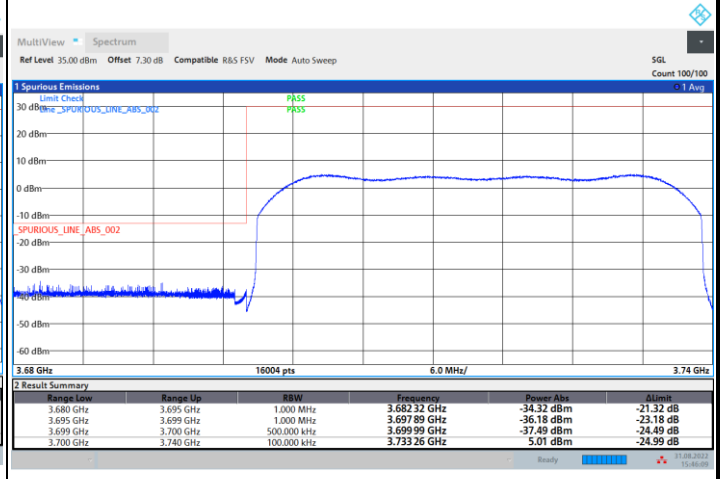
16QAM



64QAM



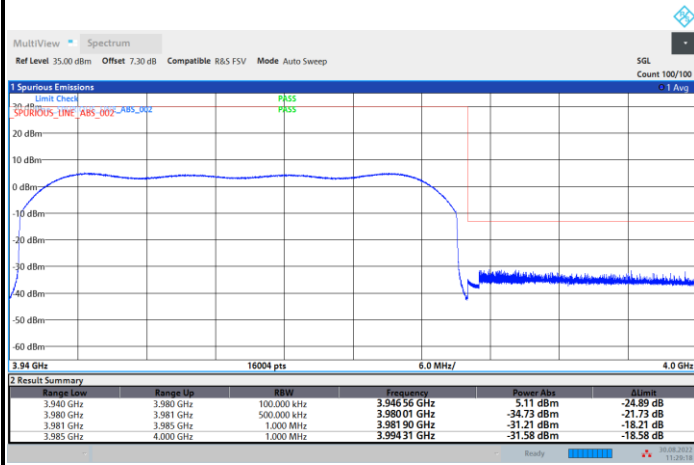
256QAM



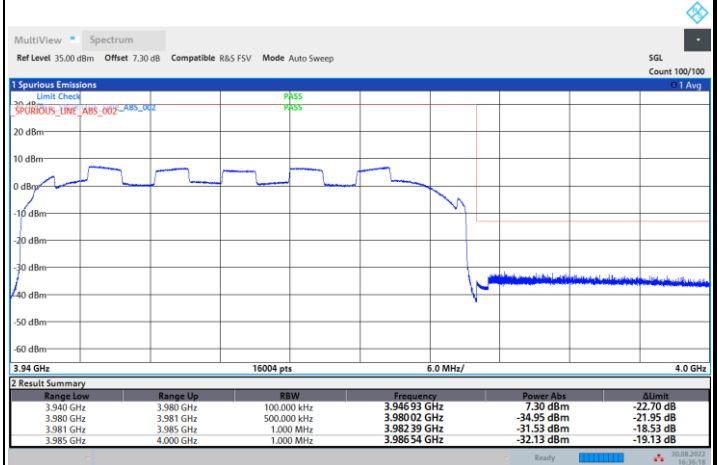


FR1 n77 / 40MHz / Highest Band Edge / Full RB

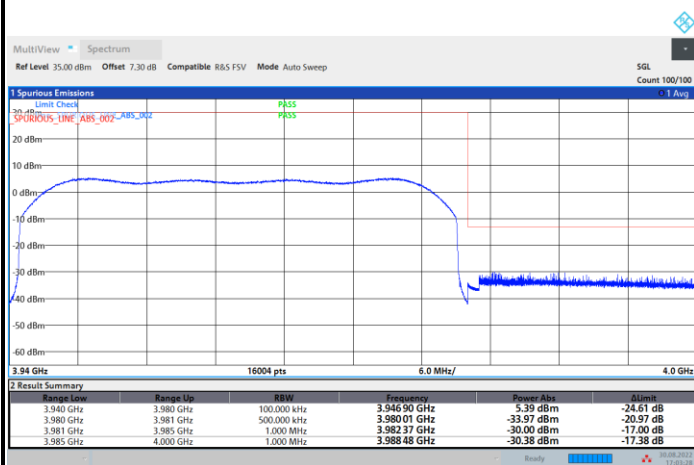
QPSK



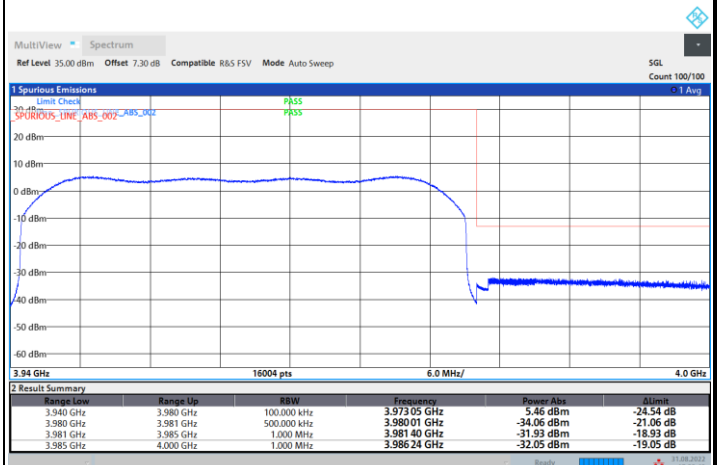
16QAM



64QAM



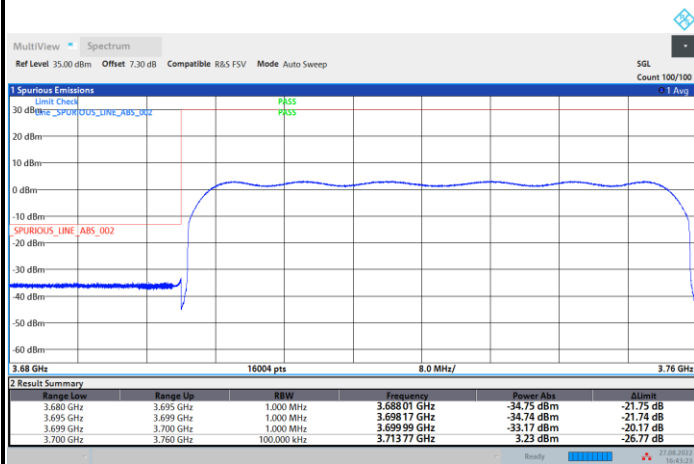
256QAM



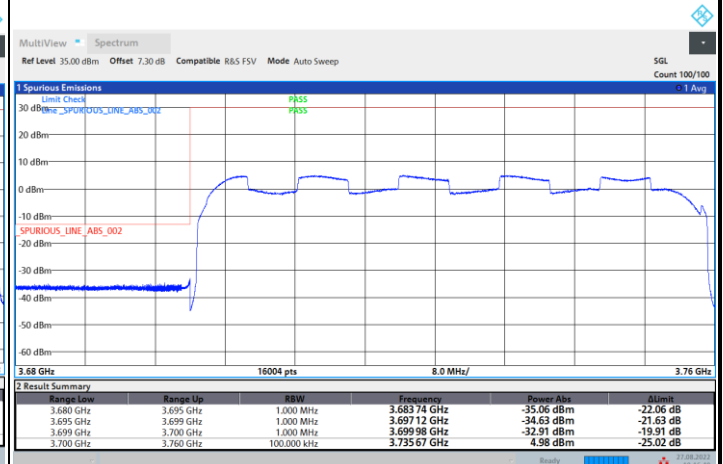


FR1 n77 / 60MHz / Lowest Band Edge / Full RB

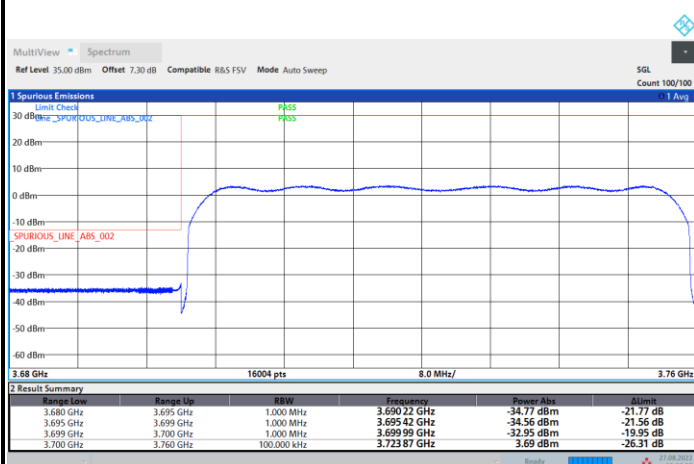
QPSK



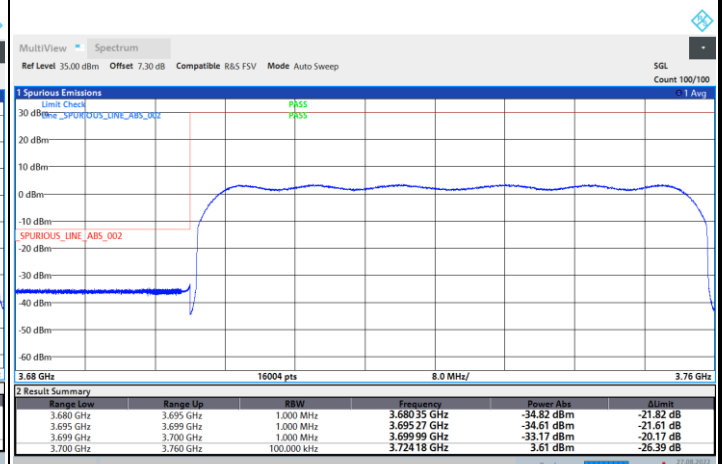
16QAM



64QAM



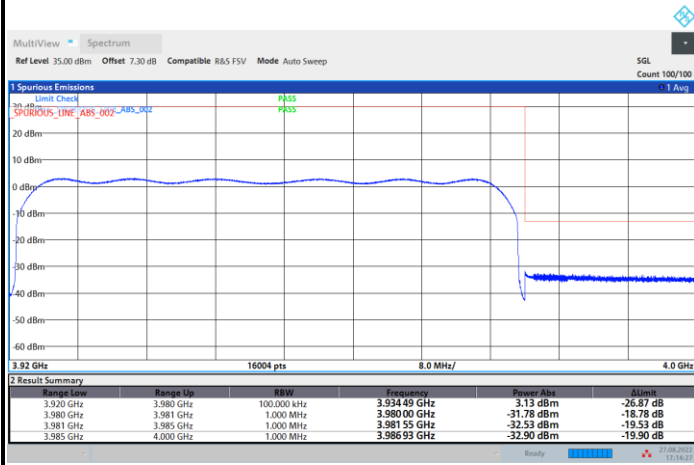
256QAM



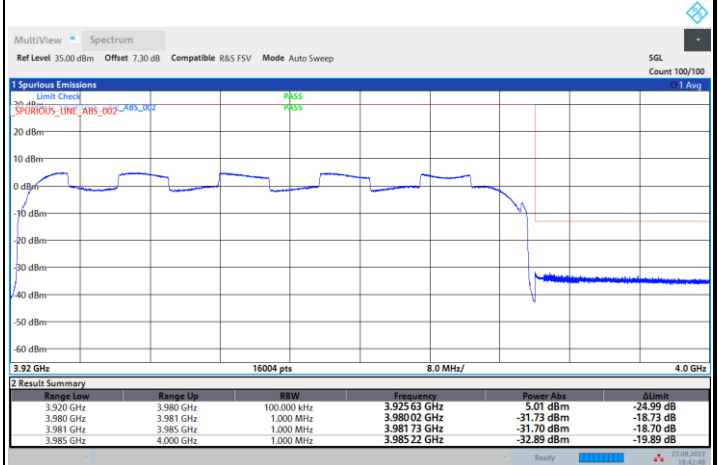


FR1 n77 / 60MHz / Highest Band Edge / Full RB

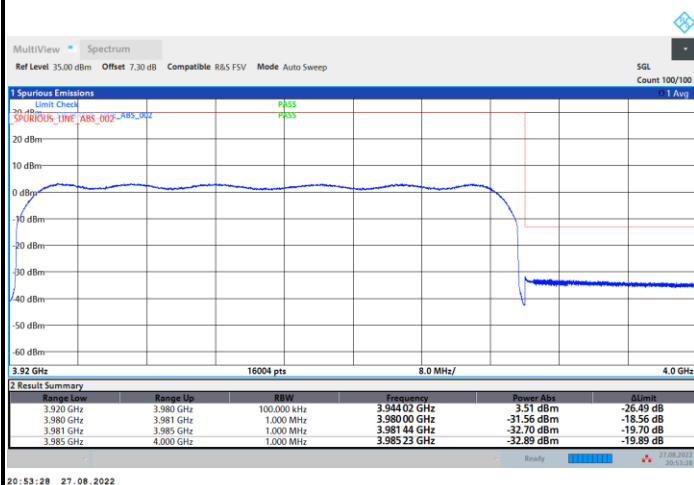
QPSK



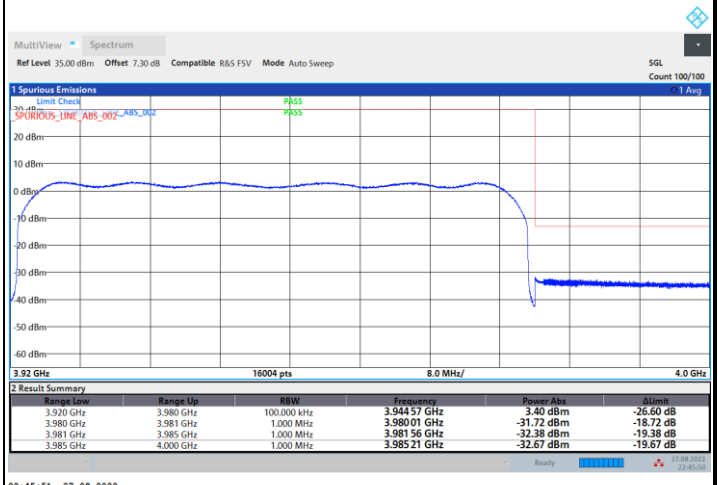
16QAM



64QAM



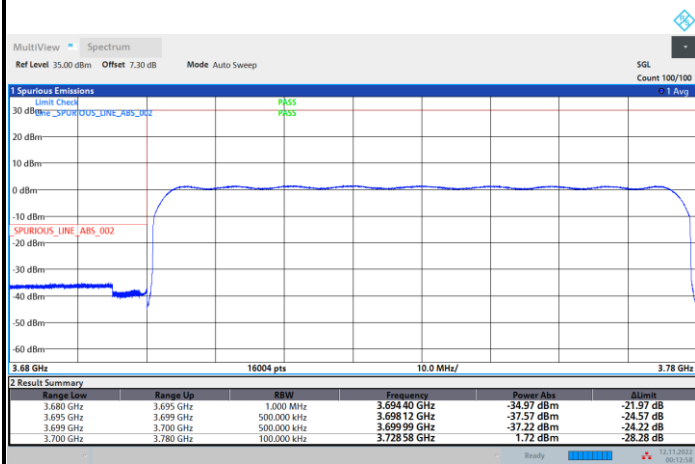
256QAM



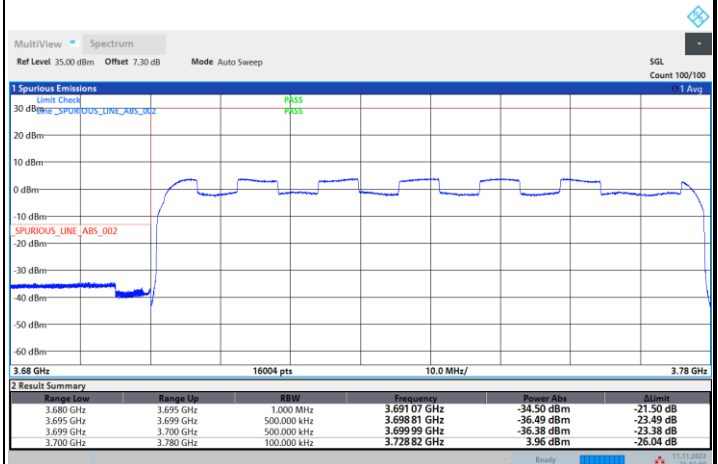


FR1 n77 / 80MHz / Lowest Band Edge / Full RB

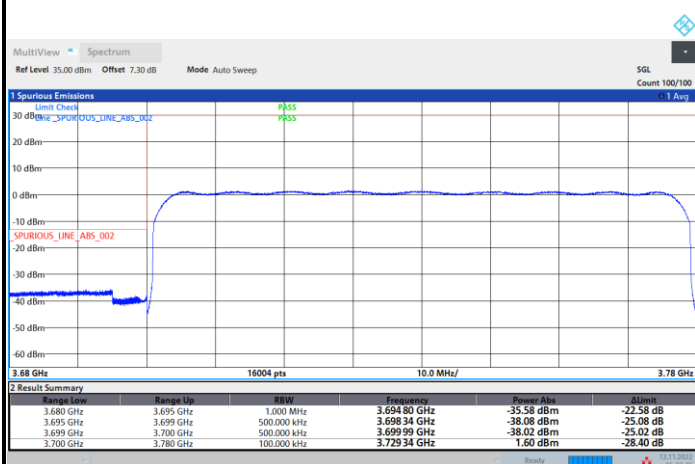
QPSK



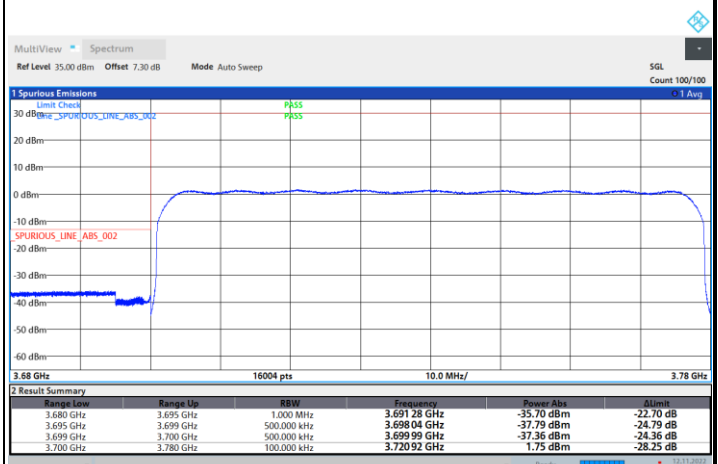
16QAM



64QAM



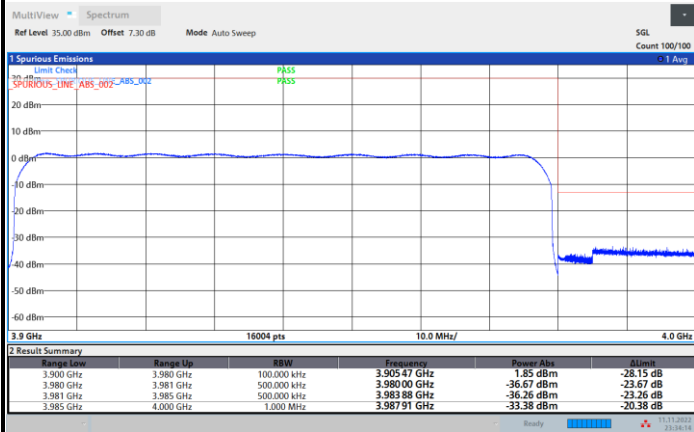
256QAM





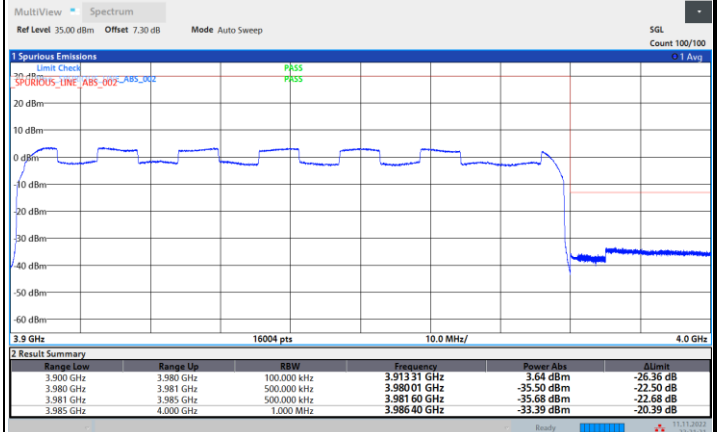
FR1 n77 / 80MHz / Highest Band Edge / Full RB

QPSK



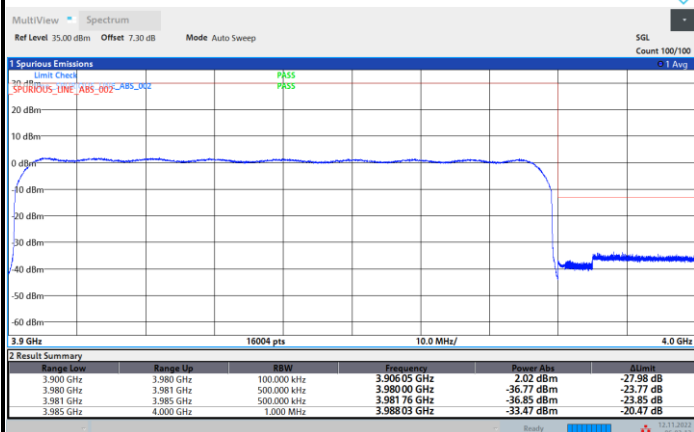
23:34:14 11.11.2022

16QAM



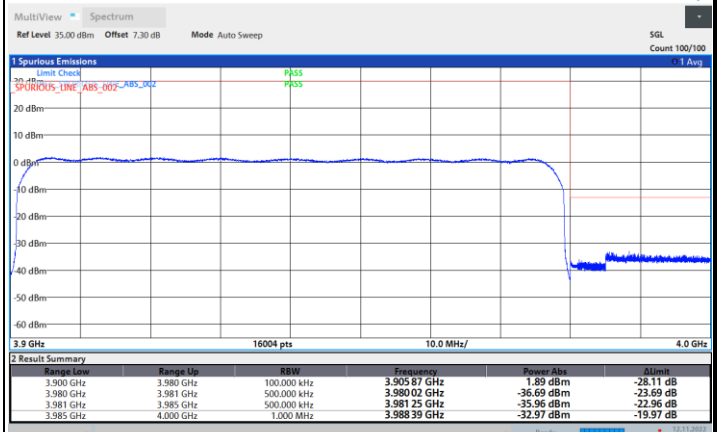
23:21:21 11.11.2022

64QAM



06:02:13 12.11.2022

256QAM

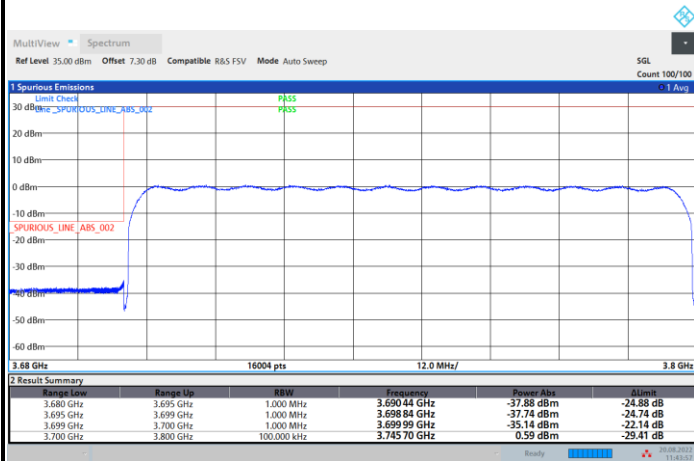


08:17:43 12.11.2022

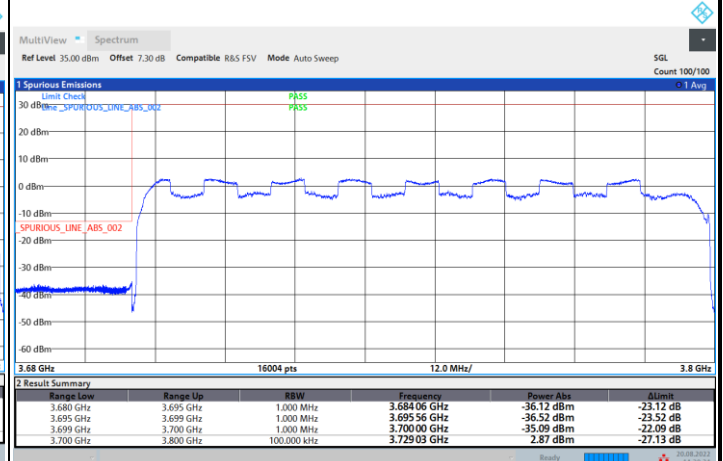


FR1 n77 / 100MHz / Lowest Band Edge / Full RB

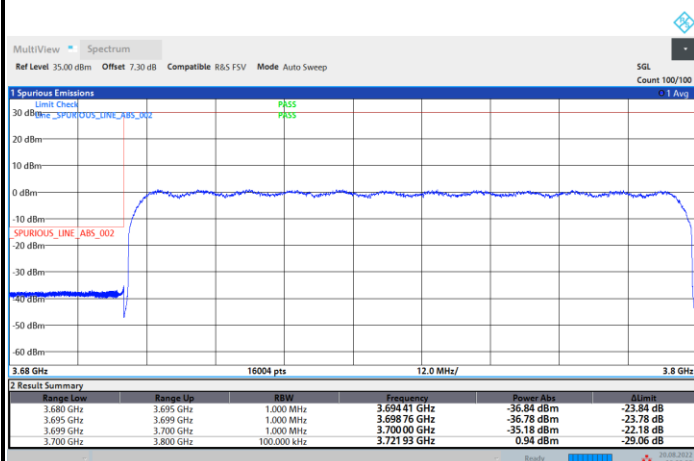
QPSK



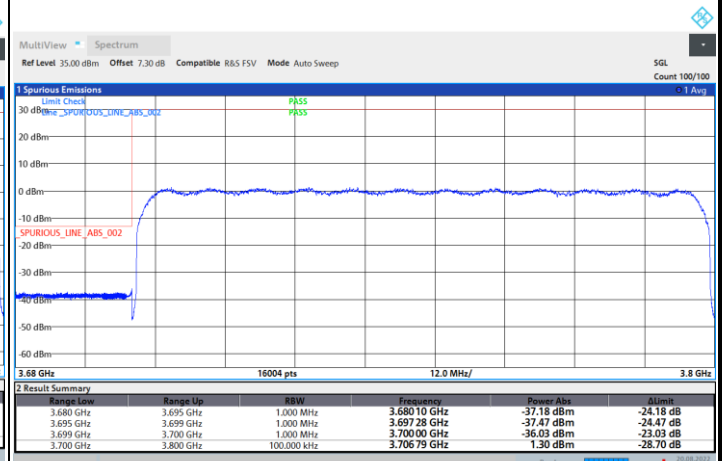
16QAM



64QAM



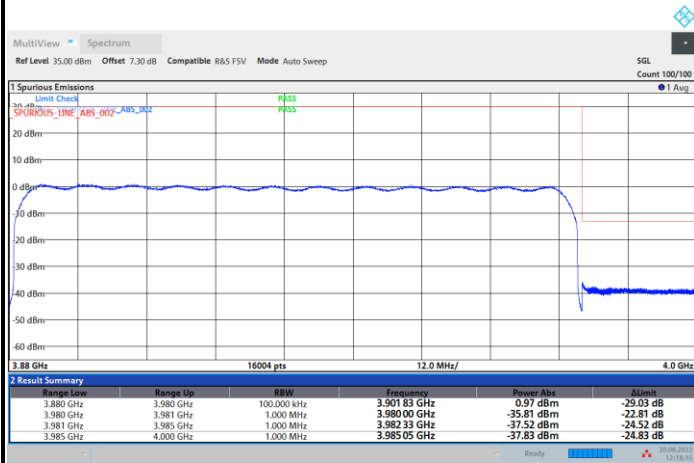
256QAM





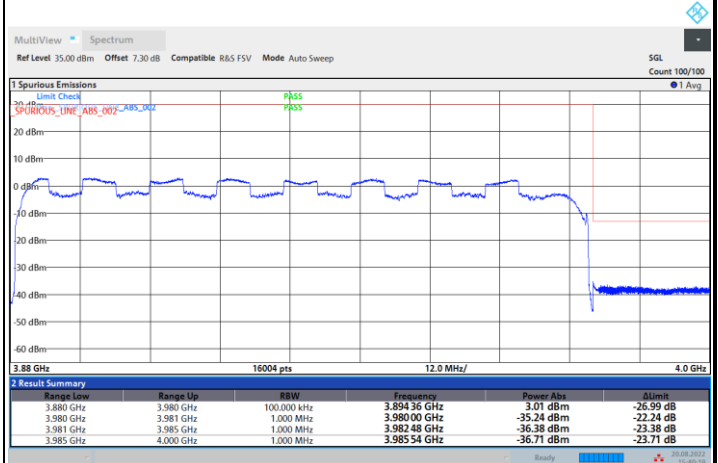
FR1 n77 / 100MHz / Highest Band Edge / Full RB

QPSK



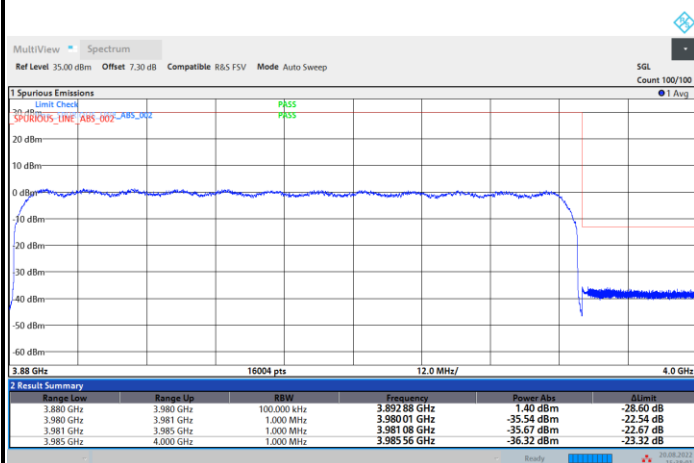
12:18:16 20.08.2022

16QAM



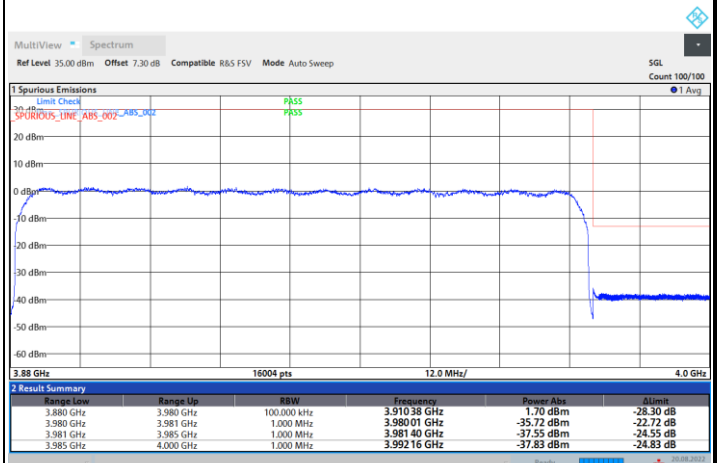
15:40:19 20.08.2022

64QAM

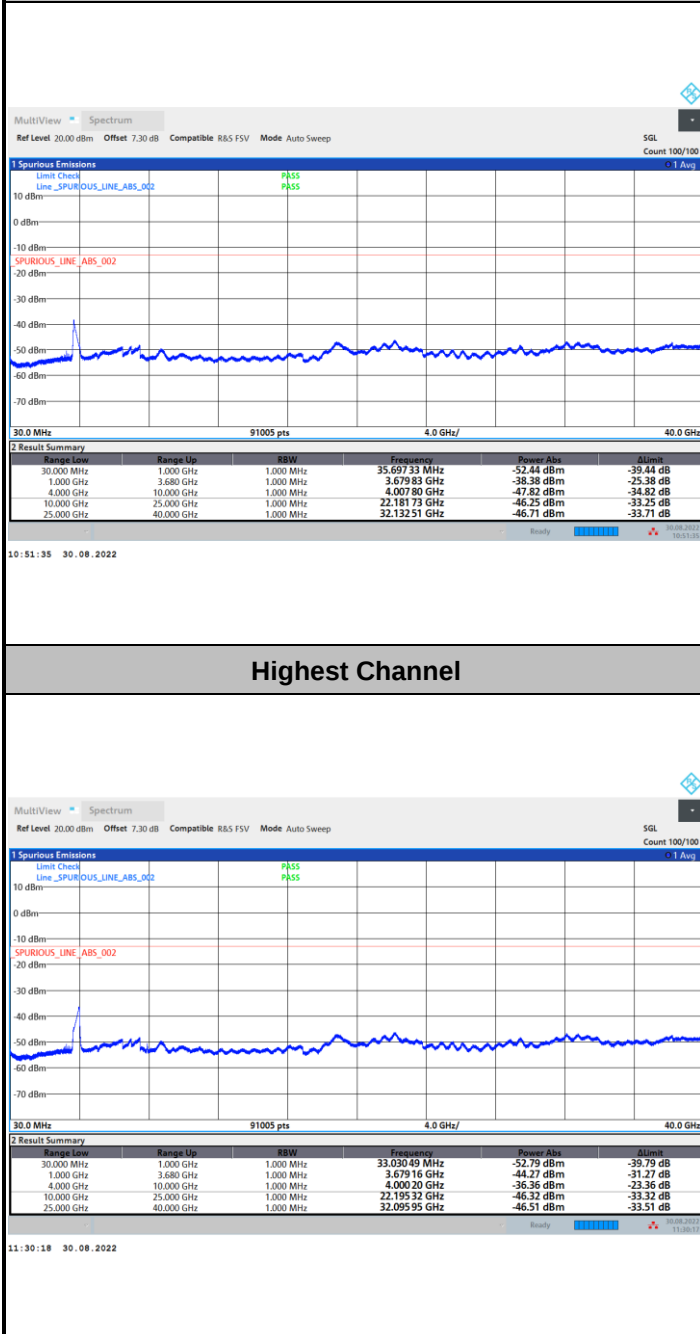
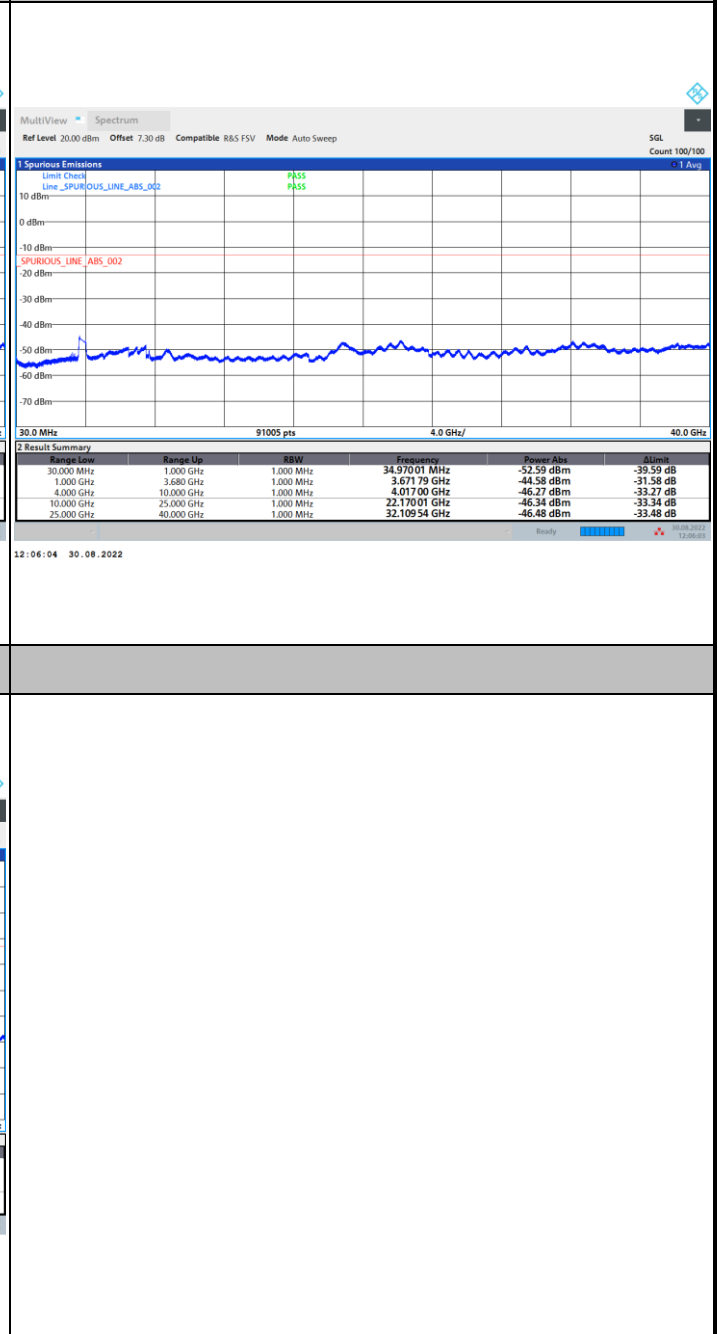
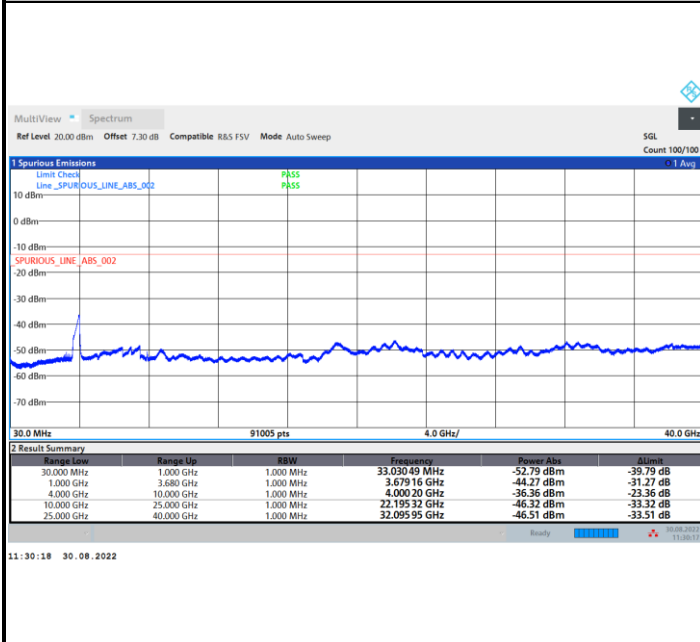


15:38:02 20.08.2022

256QAM



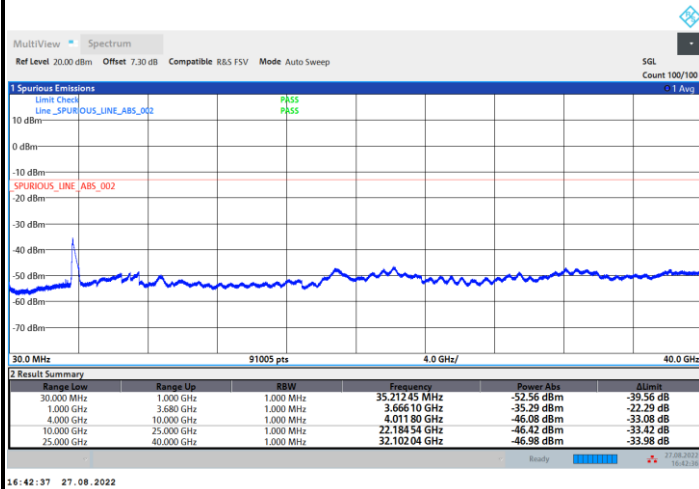
19:37:11 20.08.2022

**Emission Limit****FR1 n77 / 40MHz / QPSK / CSE Emission Limit****Lowest Channel****Middle Channel****Highest Channel**

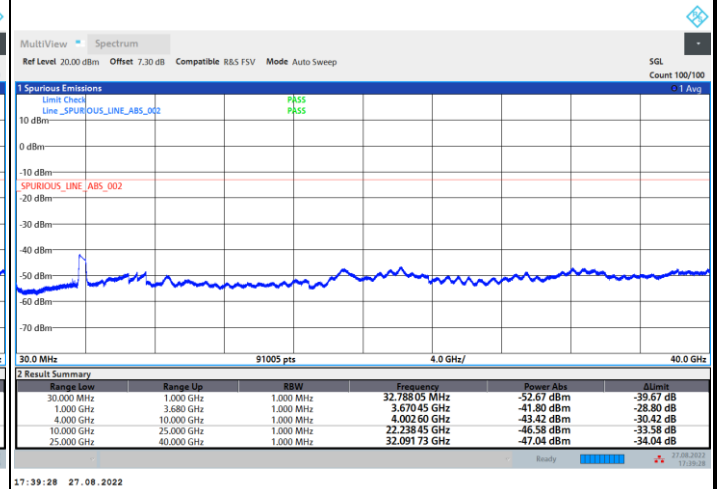


FR1 n77 / 60MHz / QPSK / CSE Emission Limit

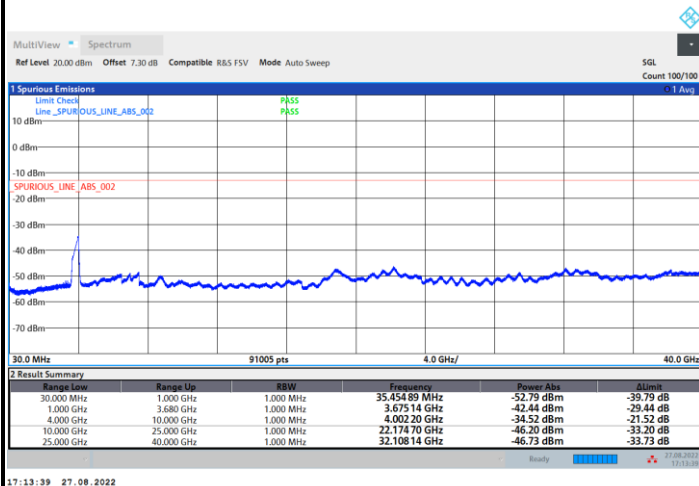
Lowest Channel



Middle Channel



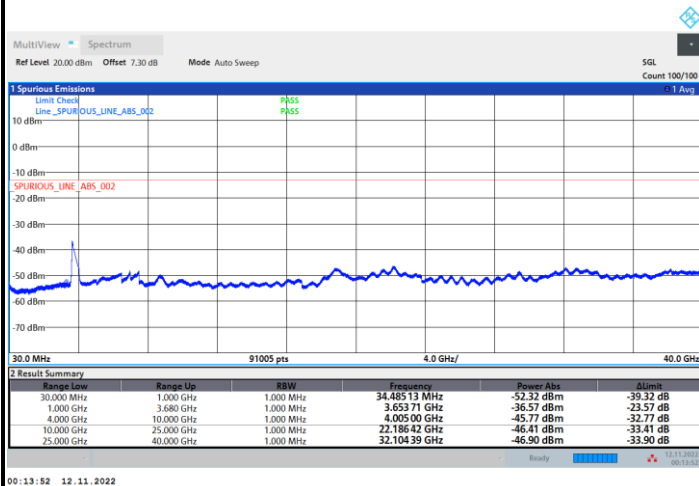
Highest Channel



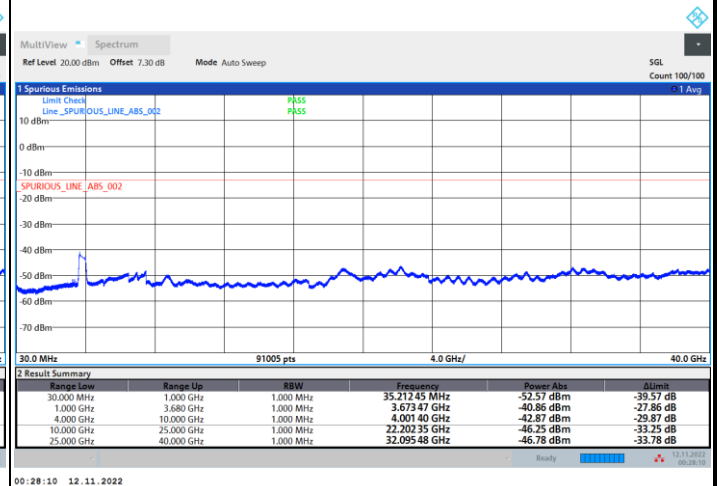


FR1 n77 / 80MHz / QPSK / Emission Limit

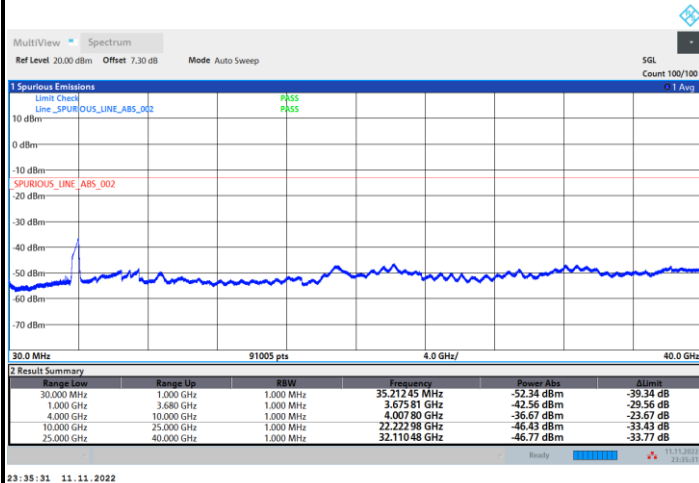
Lowest Channel



Middle Channel



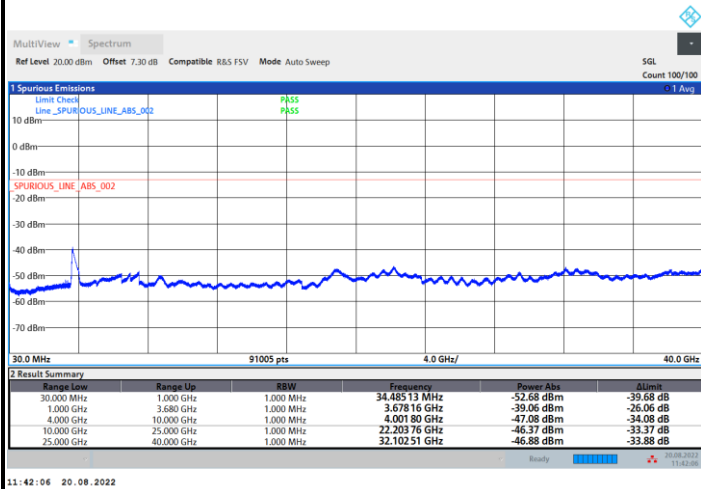
Highest Channel



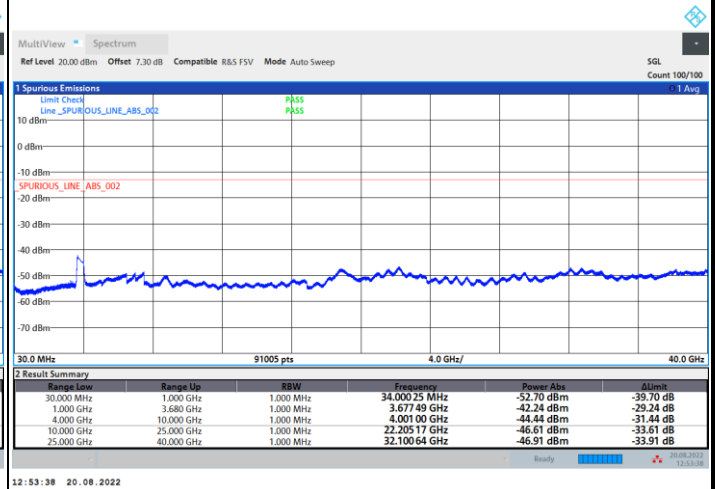


FR1 n77 / 100MHz / QPSK / CSE Emission Limit

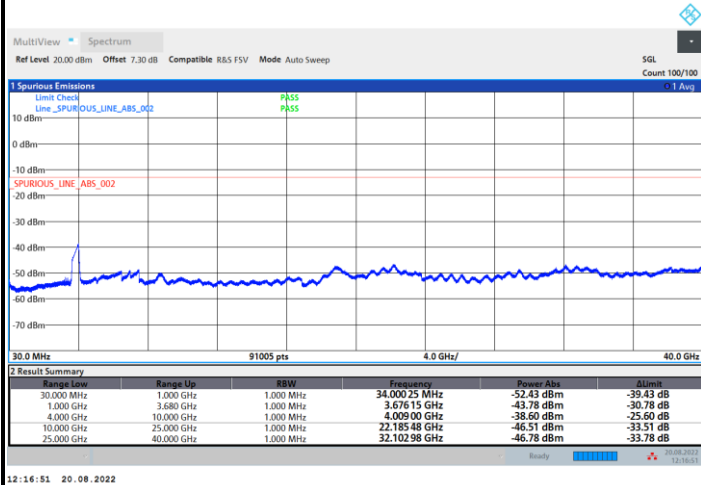
Lowest Channel



Middle Channel



Highest Channel



Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 40MHz	Note 2.
		Frequency offset (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0029	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0030	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0039	
20	Minimum Voltage	0.0034	

Note:

1. Normal Voltage = 48 V. ; Minimum Voltage = 36 V. ; Maximum Voltage = 60 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

MIMO < Ant. 1+2+3+4>

5G NR n77

5G NR n77 / 40MHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	7440	-41.39	-13	-28.39	-72.18	-48.63	1.93	11.32	H
	11160	-35.47	-13	-22.47	-72.66	-41.75	2.26	10.69	H
	14880	-28.76	-13	-15.76	-71.63	-36.97	2.57	12.94	H
	18600	-62.82	-13	-49.82	-74.63	-74.93	3.24	17.50	H
	22320	-60.24	-13	-47.24	76.11	-73.40	3.53	18.84	H
	26040	-59.03	-13	-46.03	78.02	-72.00	3.94	19.06	H
	7440	-41.28	-13	-28.28	-72.18	-48.52	1.93	11.32	V
	11160	-35.51	-13	-22.51	-72.67	-41.79	2.26	10.69	V
	14880	-27.12	-13	-14.12	-71.24	-35.33	2.57	12.94	V
	18600	-62.53	-13	-49.53	-74.12	-74.64	3.24	17.50	V
	22320	-60.92	-13	-47.92	-76.38	-74.08	3.53	18.84	V
	26040	-59.86	-13	-46.86	-78.53	-72.83	3.94	19.06	V
Middle	7680	-40.52	-13	-27.52	-71.17	-48.12	1.89	11.64	H
	11520	-33.58	-13	-20.58	-71.22	-40.19	2.41	11.17	H
	15360	-29.04	-13	-16.04	-70.64	-39.02	2.65	14.78	H
	19200	-64.31	-13	-51.31	-76.23	-76.18	3.24	17.26	H
	23040	-60.52	-13	-47.52	-77.51	-73.40	3.58	18.61	H
	26880	-57.19	-13	-44.19	-77.54	-70.25	3.92	19.13	H
	7680	-40.49	-13	-27.49	-71.36	-48.09	1.89	11.64	V
	11520	-34.01	-13	-21.01	-71.74	-40.62	2.41	11.17	V
	15360	-28.52	-13	-15.52	-70.74	-38.50	2.65	14.78	V
	19200	-63.91	-13	-50.91	-75.59	-75.78	3.24	17.26	V
	23040	-60.72	-13	-47.72	-77.38	-73.60	3.58	18.61	V
	26880	-57.36	-13	-44.36	-77.33	-70.42	3.92	19.13	V



Highest	7920	-40.83	-13	-27.83	-72.06	-48.13	1.95	11.40	H
	11880	-32.61	-13	-19.61	-71.73	-40.37	2.56	12.47	H
	15840	-30.58	-13	-17.58	-70.95	-42.00	2.78	16.35	H
	19800	-63.08	-13	-50.08	-75.56	-75.17	3.20	17.44	H
	23760	-60.12	-13	-47.12	-77.42	-72.77	3.74	18.54	H
	27720	-56.51	-13	-43.51	-77.01	-69.99	3.95	19.59	H
	7920	-40.51	-13	-27.51	-72.1	-47.81	1.95	11.40	V
	11880	-33.29	-13	-20.29	-71.99	-41.05	2.56	12.47	V
	15840	-30.36	-13	-17.36	-70.96	-41.78	2.78	16.35	V
	19800	-60.61	-13	-47.61	-72.8	-72.70	3.20	17.44	V
	23760	-60.36	-13	-47.36	-77.3	-73.01	3.74	18.54	V
	27720	-57.40	-13	-44.40	-77.56	-70.88	3.95	19.59	V

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