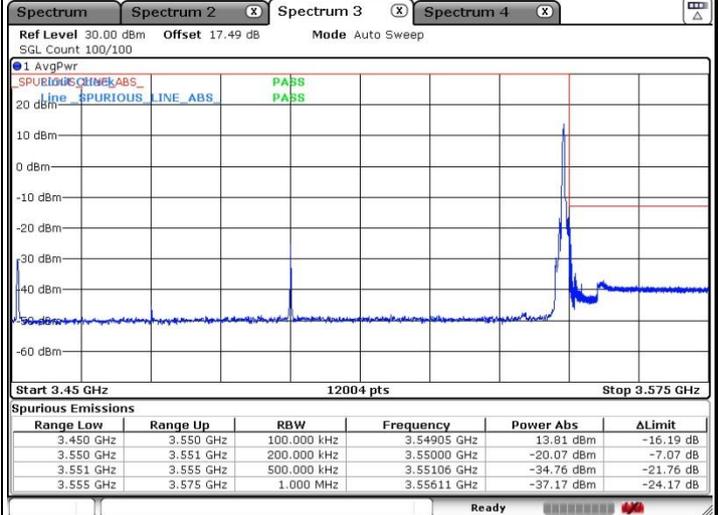
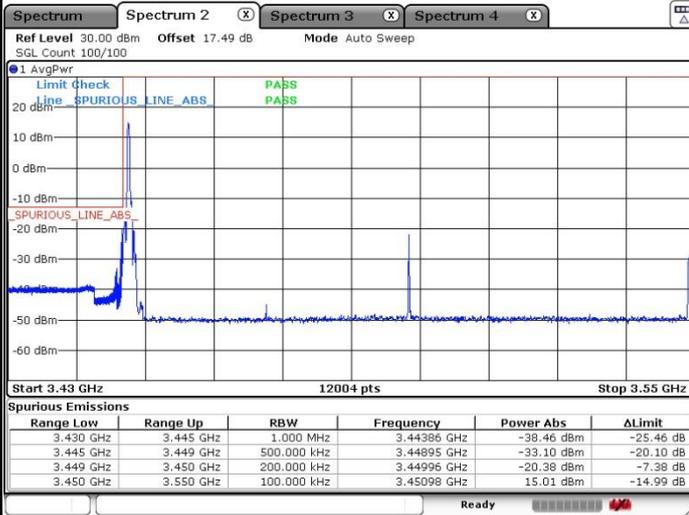




FR1 n78 /100MHz / CP OFDM / 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

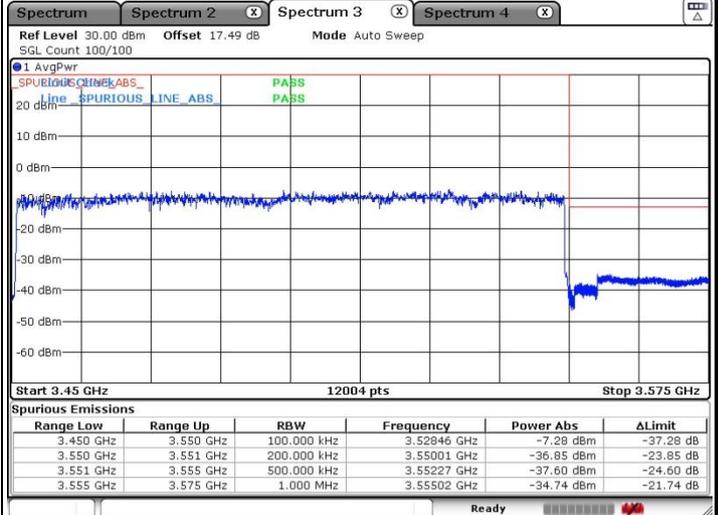
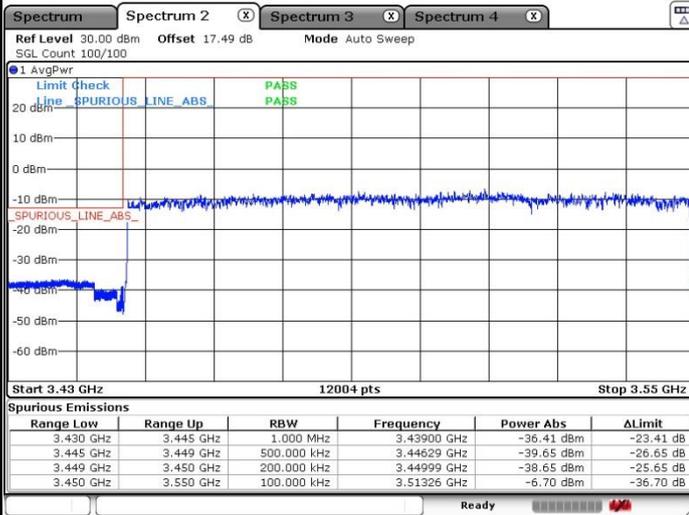


Date: 29.NOV.2021 15:28:31

Date: 29.NOV.2021 15:27:58

Lowest Band Edge / Full RB

Highest Band Edge / Full RB

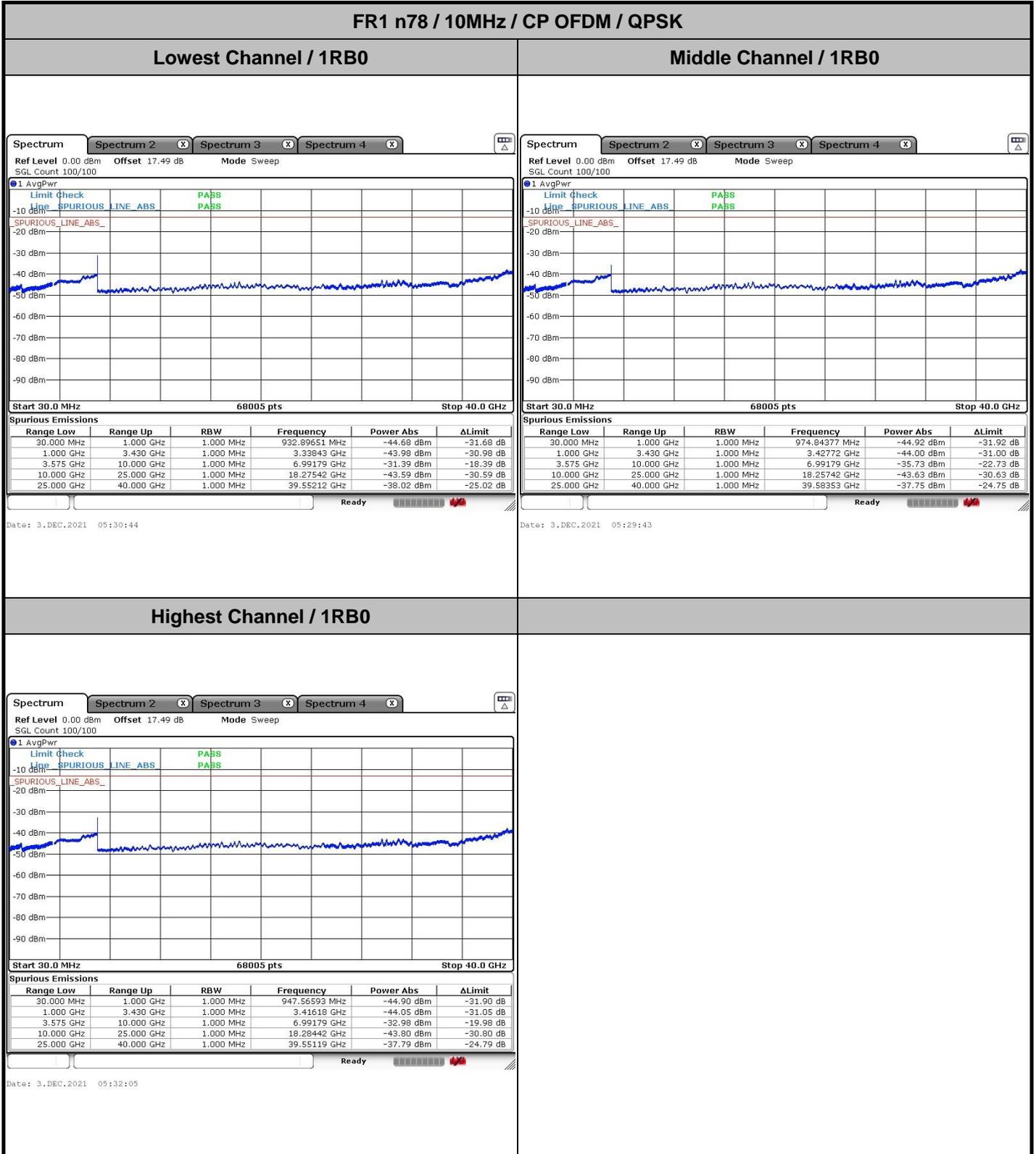


Date: 29.NOV.2021 15:23:40

Date: 29.NOV.2021 15:24:25



# Conducted Spurious Emission

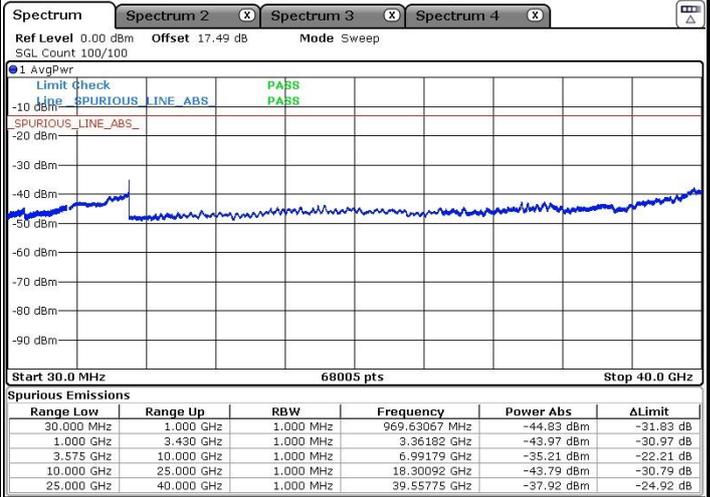
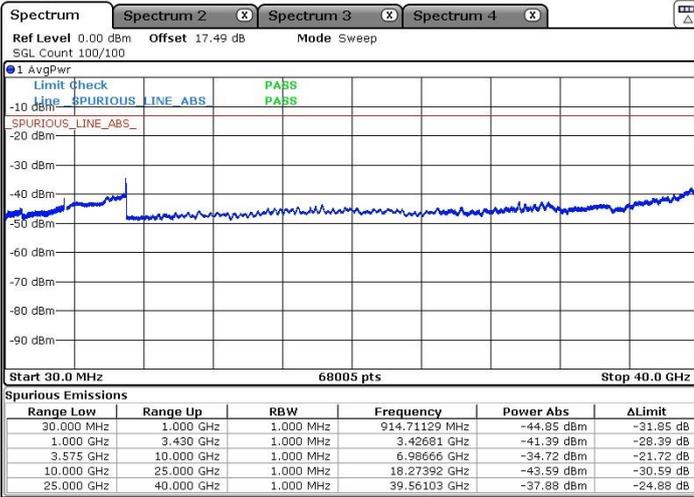




FR1 n78 / 15MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

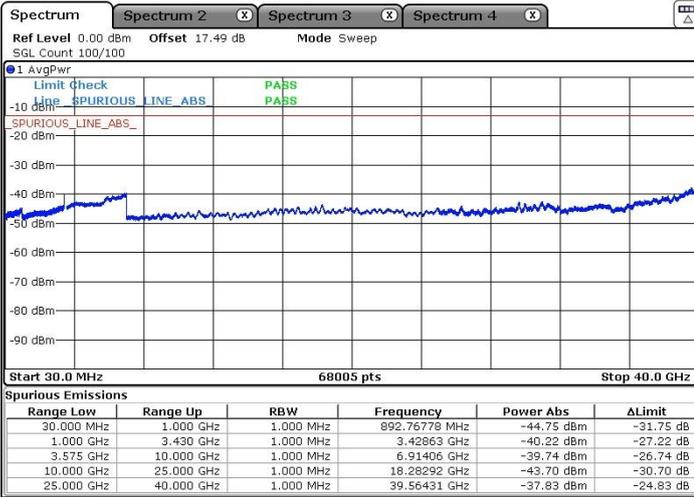
Middle Channel / 1RB0



Date: 3.DEC.2021 05:26:22

Date: 3.DEC.2021 05:28:31

Highest Channel / 1RB0



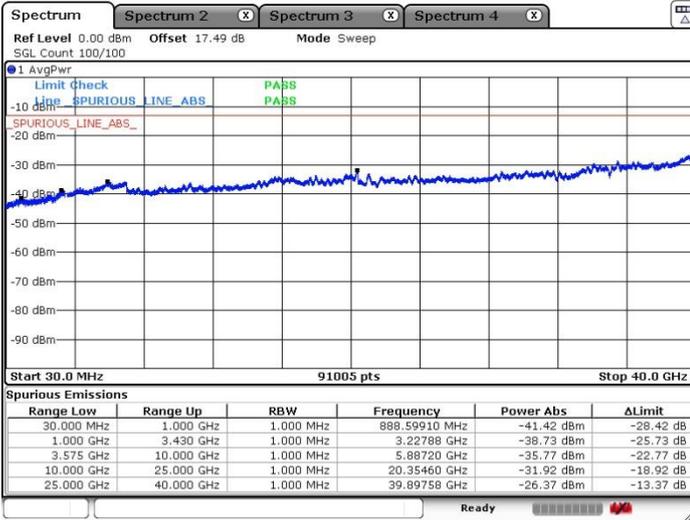
Date: 3.DEC.2021 05:25:07



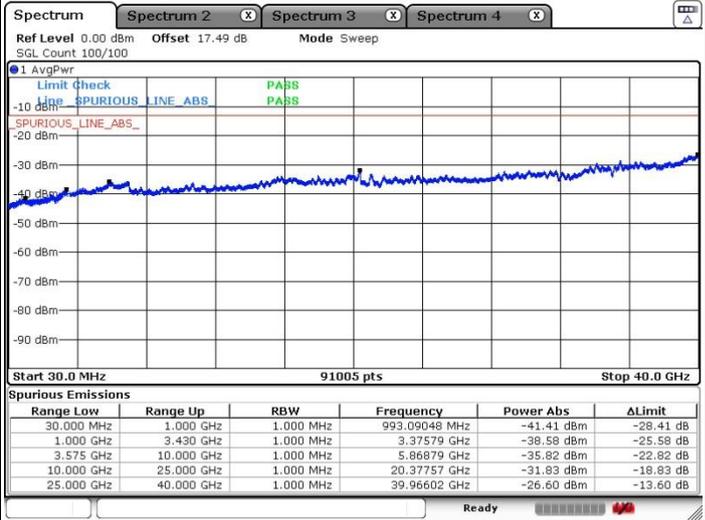
FR1 n78 / 20MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

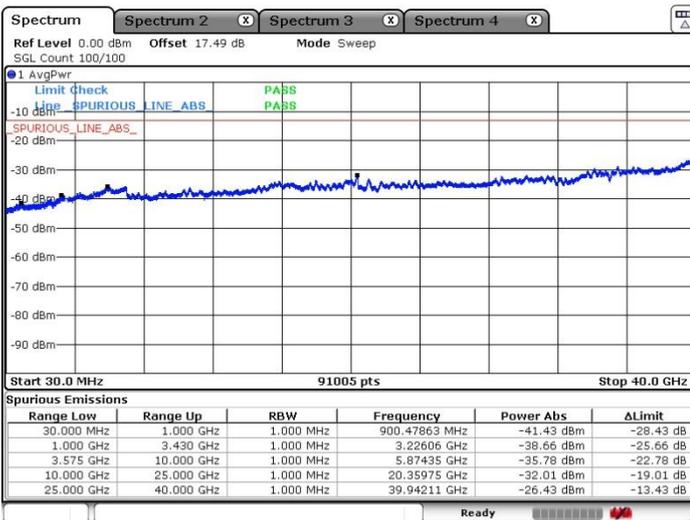


Date: 29.NOV.2021 18:46:59



Date: 29.NOV.2021 18:45:38

Highest Channel / 1RB0



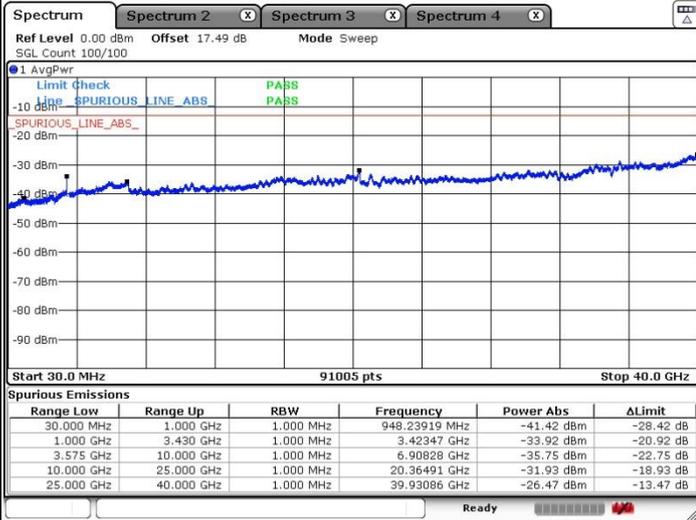
Date: 29.NOV.2021 18:58:26



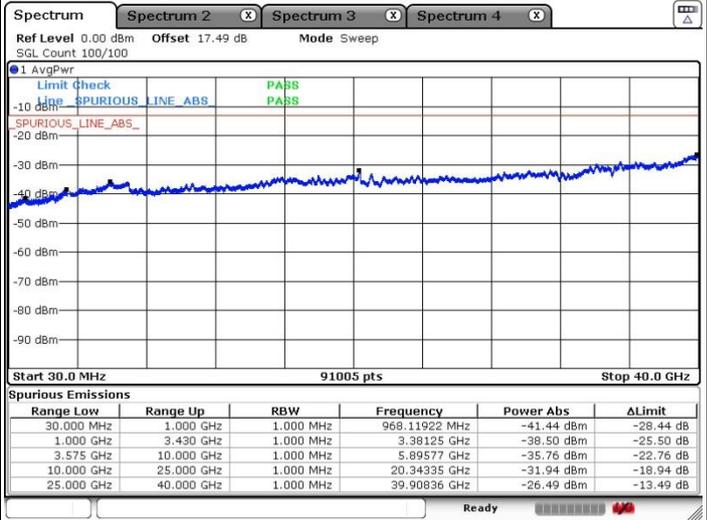
FR1 n78 / 30MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

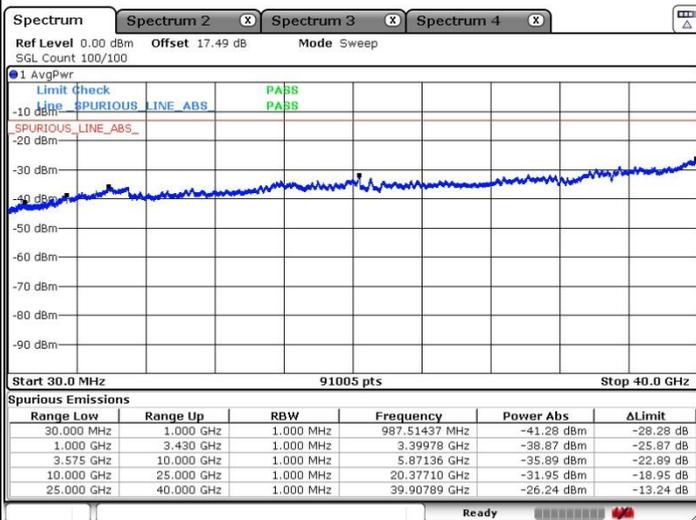


Date: 29.NOV.2021 18:18:40



Date: 29.NOV.2021 18:16:33

Highest Channel / 1RB0



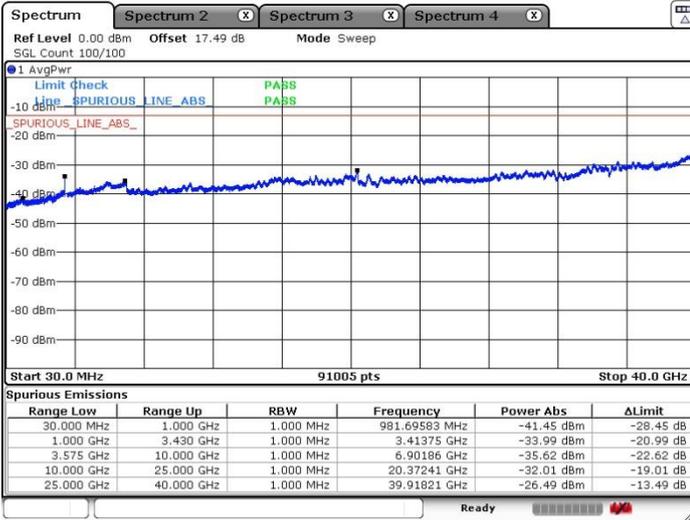
Date: 29.NOV.2021 18:28:12



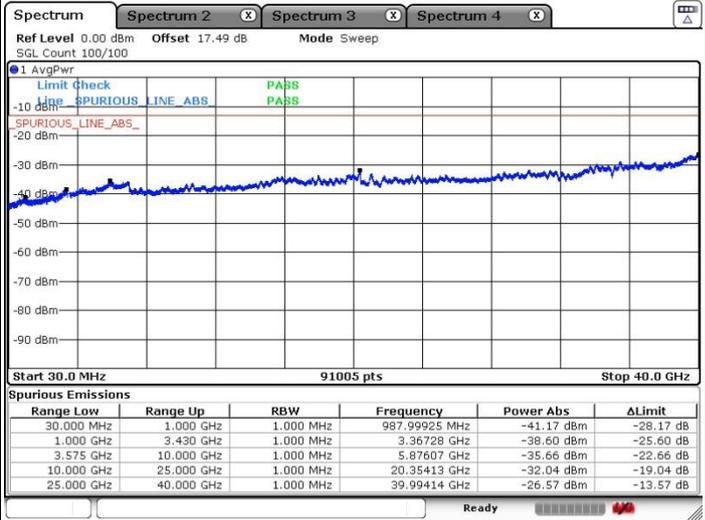
FR1 n78 / 40MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

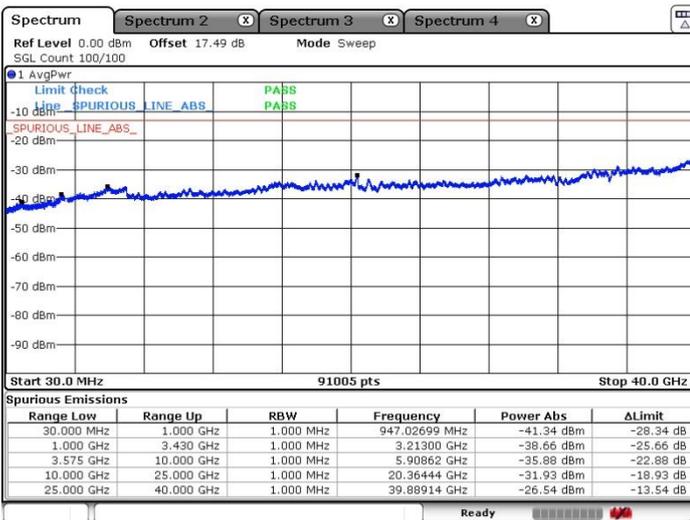


Date: 29.NOV.2021 18:05:19



Date: 29.NOV.2021 18:06:47

Highest Channel / 1RB0



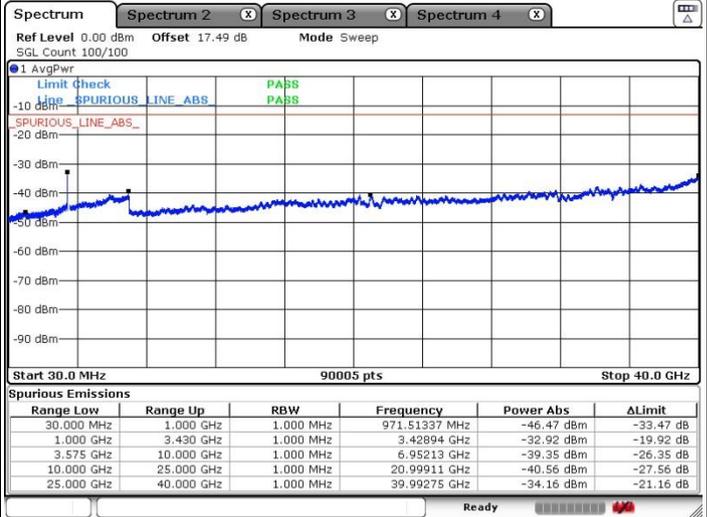
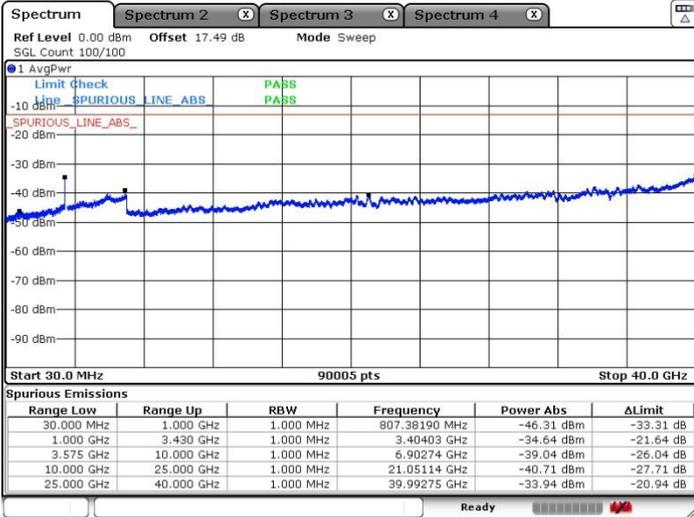
Date: 29.NOV.2021 18:14:53



FR1 n78 / 50MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

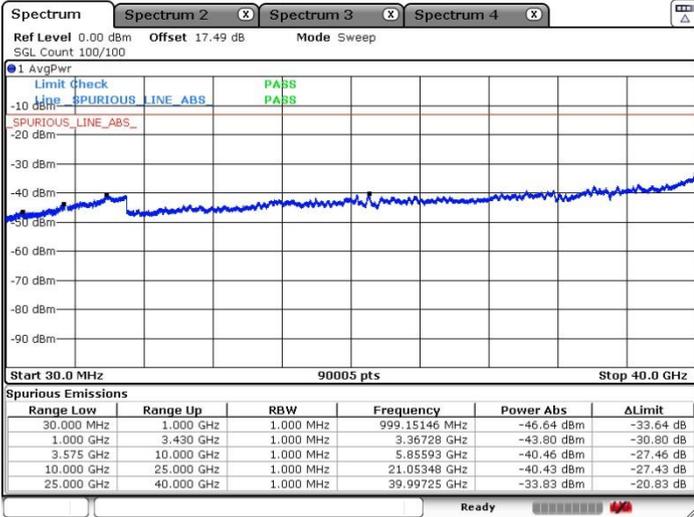
Middle Channel / 1RB0



Date: 29.NOV.2021 16:40:03

Date: 29.NOV.2021 16:38:36

Highest Channel / 1RB0



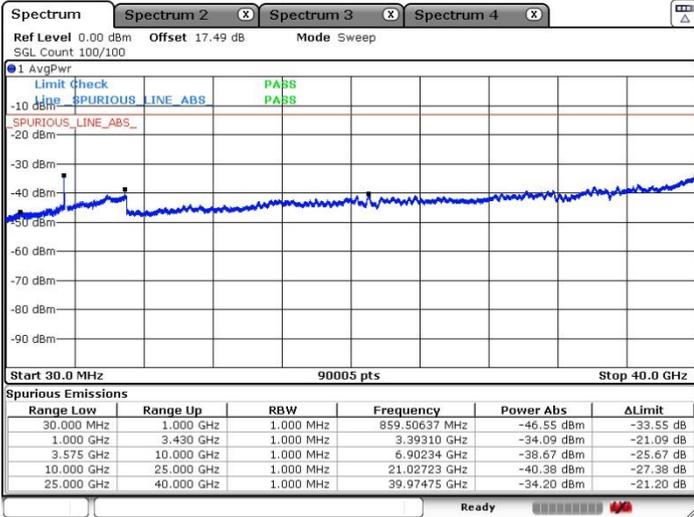
Date: 29.NOV.2021 16:48:16



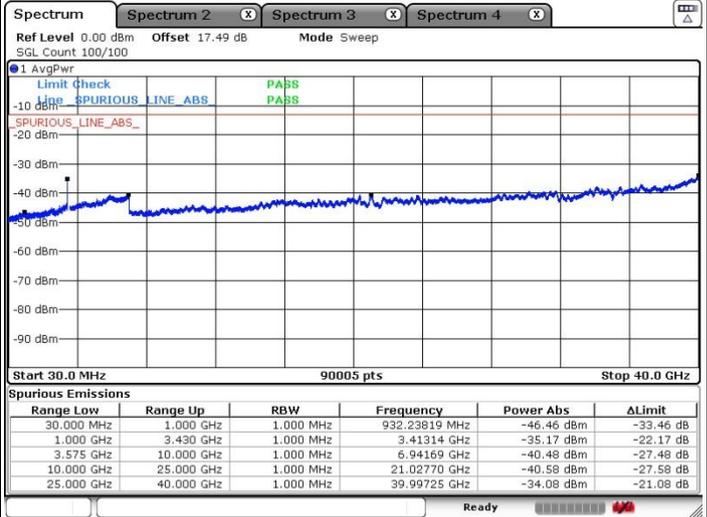
FR1 n78 / 60MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

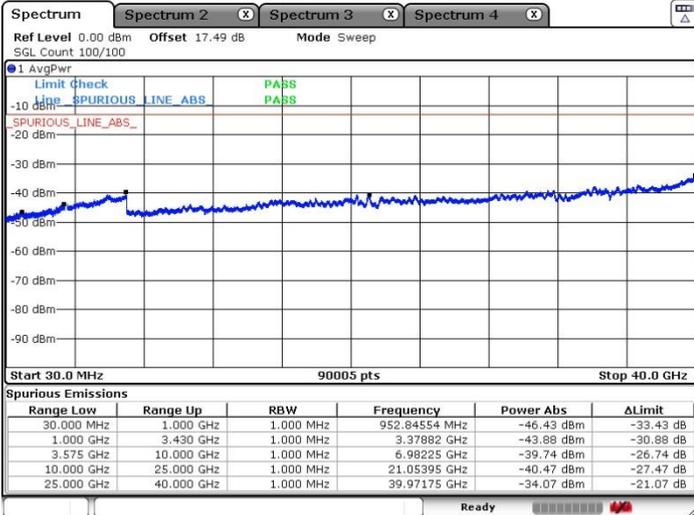


Date: 29.NOV.2021 16:22:15



Date: 29.NOV.2021 16:20:38

Highest Channel / 1RB0



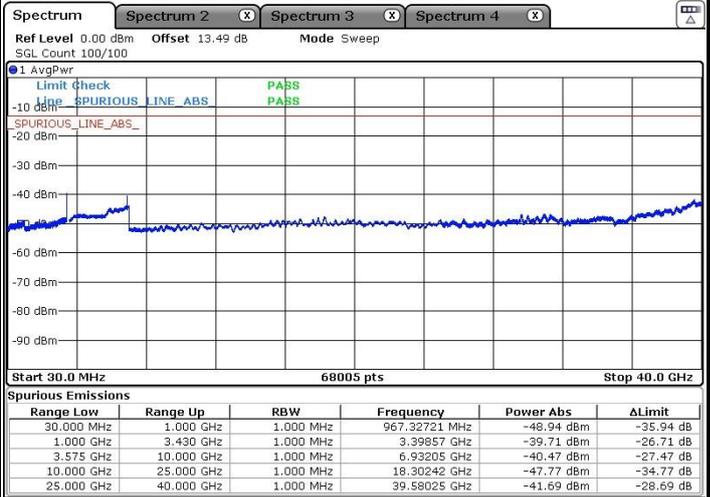
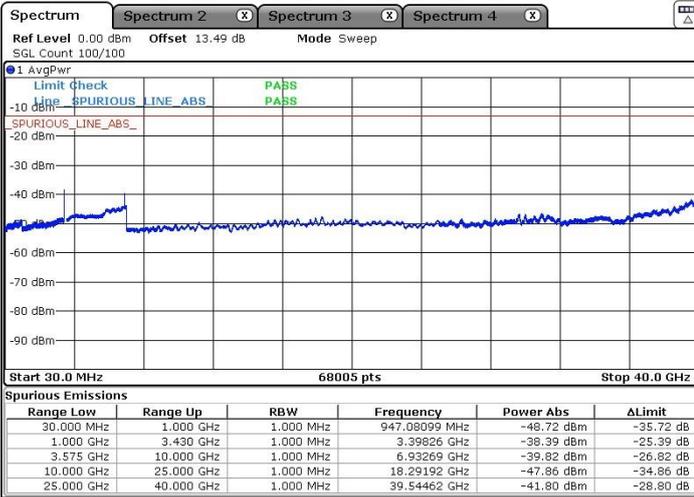
Date: 29.NOV.2021 16:36:28



FR1 n78 / 70MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

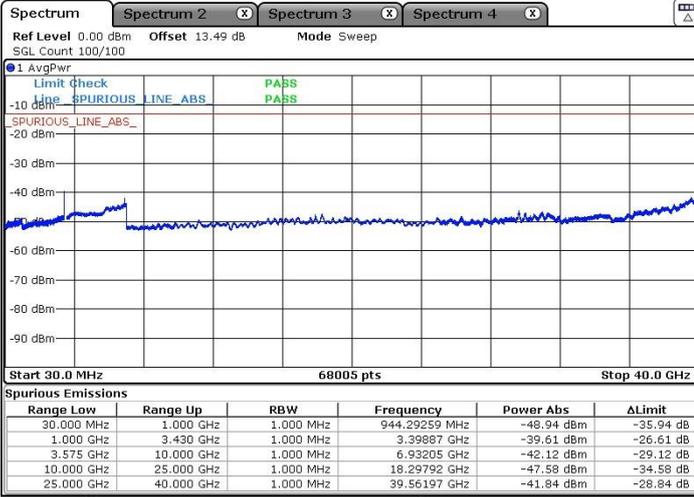
Middle Channel / 1RB0



Date: 3.DEC.2021 04:52:20

Date: 3.DEC.2021 04:48:56

Highest Channel / 1RB0



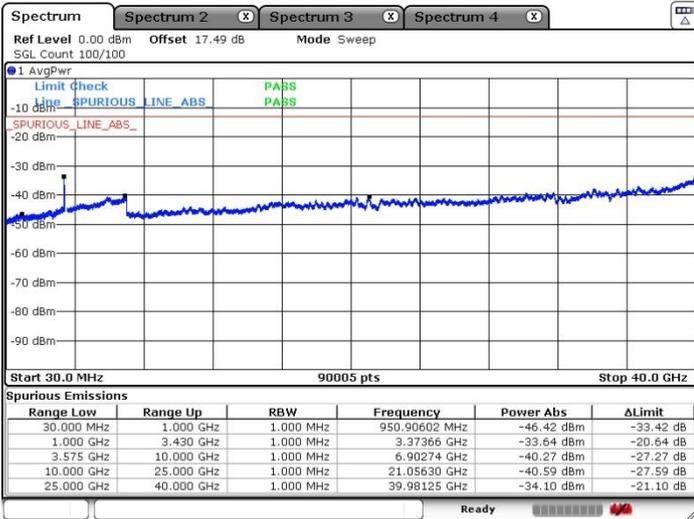
Date: 3.DEC.2021 04:50:39



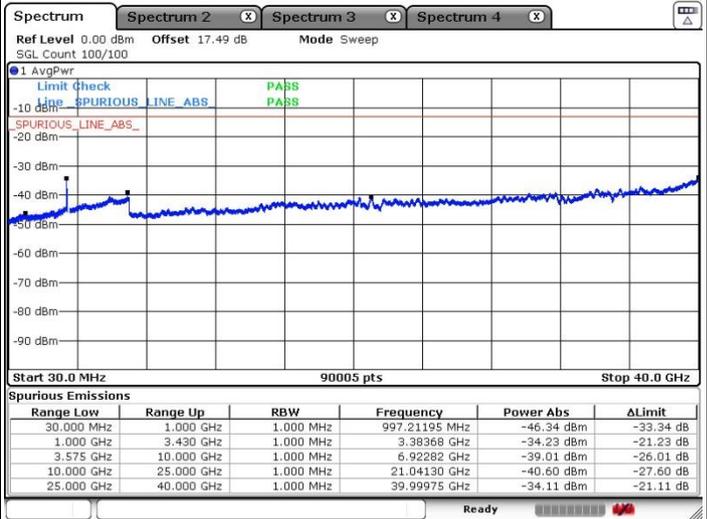
FR1 n78 / 80MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

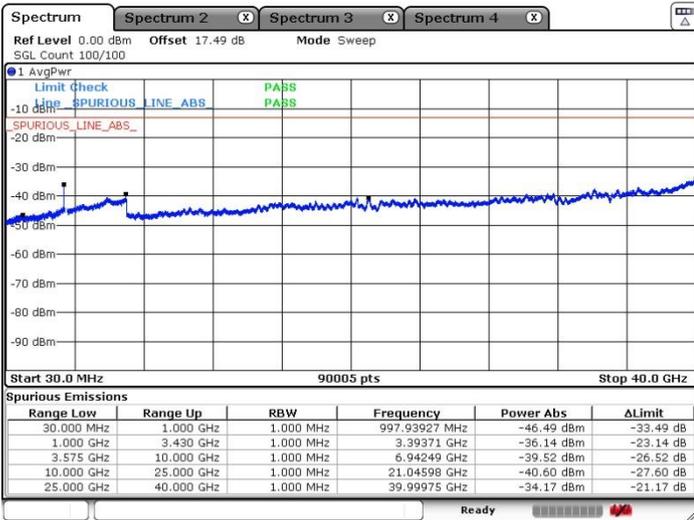


Date: 29.NOV.2021 16:03:24



Date: 29.NOV.2021 16:01:39

Highest Channel / 1RB0



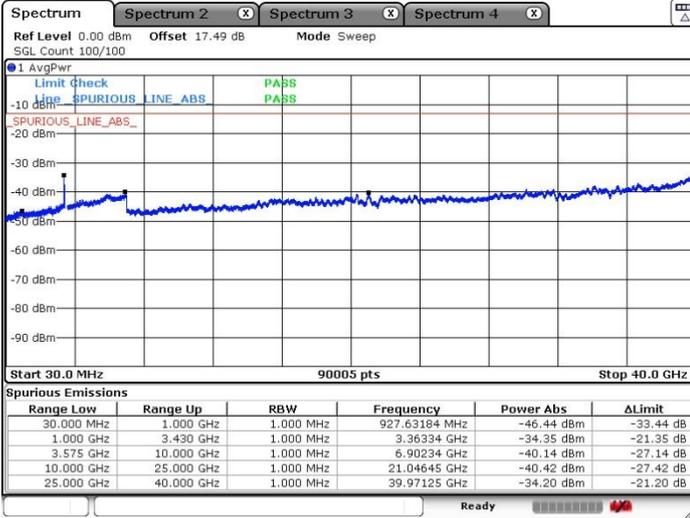
Date: 29.NOV.2021 16:10:15



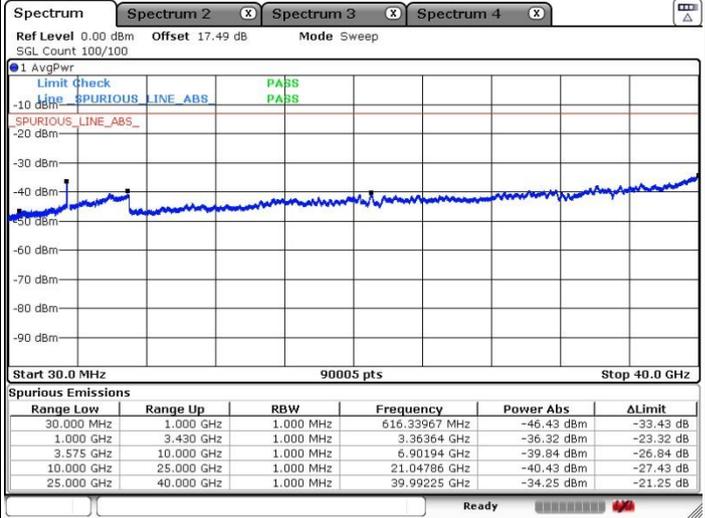
FR1 n78 / 90MHz / CP OFDM / QPSK

Lowest Channel / 1RB0

Middle Channel / 1RB0

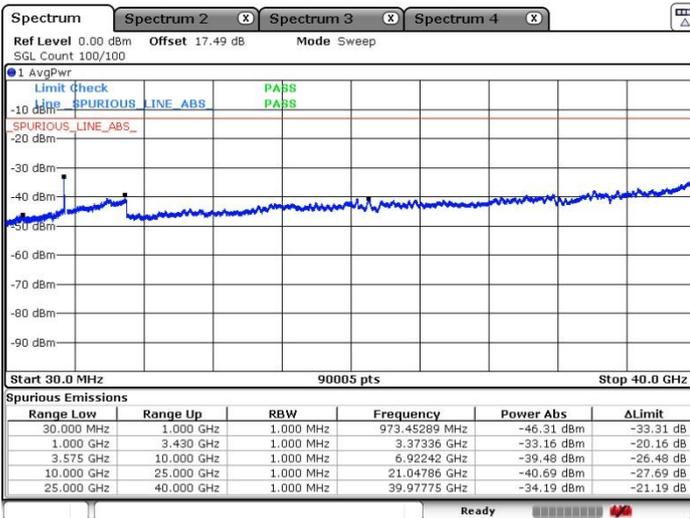


Date: 29.NOV.2021 15:42:03



Date: 29.NOV.2021 15:40:31

Highest Channel / 1RB0

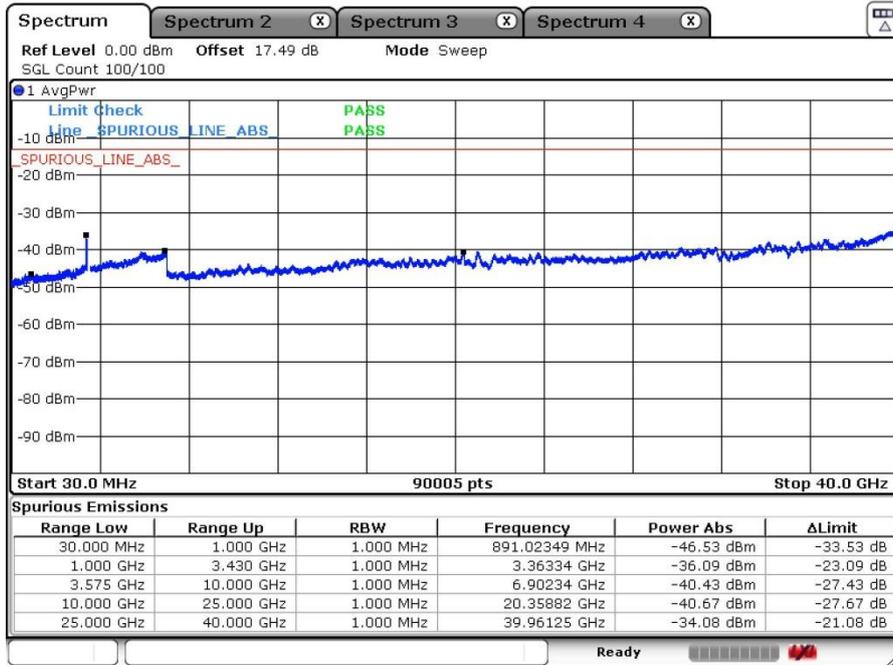


Date: 29.NOV.2021 15:58:34



FR1 n78 / 100MHz / CP OFDM / QPSK

Middle Channel / 1RB0



Date: 29.NOV.2021 15:38:10

## Frequency Stability

Test Conditions		FR1 n78 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0045	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0039	
-10	Normal Voltage	0.0024	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0077	
20	Normal Voltage	0.0006	
20	Battery End Point	0.0001	

**Note:**

3. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
4. .Note: The frequency fundamental emissions stay within the authorized frequency block.



## Appendix B. Test Results of Radiated Test

### Radiated Spurious Emission

Test Engineer :	Chris Chen	Temperature :	22~23°C
		Relative Humidity :	41~42%

Note: Pre-scanned harmonic for the different antenna combinations for EN-DC mode, we choose the worst antenna mode to test.

SA n77 / NR 100MHz / QPSK / ANT12(NR)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6912	-64.47	-13	-51.47	-74.95	2.76	13.24	H
	10368	-61.78	-13	-48.78	-71.37	3.42	13.01	H
	13818	-61.20	-13	-48.20	-70.81	3.83	13.44	H
	6912	-64.40	-13	-51.40	-74.84	2.80	13.24	V
	10368	-61.83	-13	-48.83	-71.38	3.46	13.01	V
	13818	-61.74	-13	-48.74	-71.30	3.88	13.44	V

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

n77 UL MIMO / NR 100MHz / QPSK / ANT11+12(NR)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6912	-64.23	-13	-51.23	-74.71	2.76	13.24	H
	10368	-60.17	-13	-47.17	-69.76	3.42	13.01	H
	13824	-61.06	-13	-48.06	-70.67	3.83	13.44	H
	6912	-64.50	-13	-51.50	-74.94	2.80	13.24	V
	10368	-61.77	-13	-48.77	-71.32	3.46	13.01	V
	13824	-60.70	-13	-47.70	-70.26	3.88	13.44	V

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



SA n78 / NR 100MHz / QPSK / ANT12(NR)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6912	-64.31	-13	-51.31	-74.79	2.76	13.24	H
	10368	-60.36	-13	-47.36	-69.95	3.42	13.01	H
	13818	-61.55	-13	-48.55	-71.16	3.83	13.44	H
	6912	-64.56	-13	-51.56	-75.00	2.80	13.24	V
	10368	-61.62	-13	-48.62	-71.17	3.46	13.01	V
	13818	-61.68	-13	-48.68	-71.24	3.88	13.44	V

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

n78 UL MIMO / NR 100MHz / QPSK / ANT11+12(NR)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6906	-63.92	-13	-50.92	-74.40	2.76	13.24	H
	10362	-58.14	-13	-45.14	-67.73	3.42	13.01	H
	13818	-60.88	-13	-47.88	-70.49	3.83	13.44	H
	6906	-64.44	-13	-51.44	-74.88	2.80	13.24	V
	10362	-59.71	-13	-46.71	-69.26	3.46	13.01	V
	13818	-61.19	-13	-48.19	-70.75	3.88	13.44	V

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

EN-DC_2A_n78A / LTE 10MHz + NR 100MHz / QPSK / ANT3(LTE) & ANT12(NR)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6900	-64.99	-13	-51.99	-75.47	2.76	13.24	H
	10350	-61.50	-13	-48.50	-71.09	3.42	13.01	H
	13800	-61.08	-13	-48.08	-70.69	3.83	13.44	H
	6900	-64.57	-13	-51.57	-75.01	2.80	13.24	V
	10350	-61.43	-13	-48.43	-70.98	3.46	13.01	V
	13800	-60.87	-13	-47.87	-70.43	3.88	13.44	V

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



EN-DC_5A_n78A / LTE 10MHz + NR 100MHz / QPSK / ANT0(LTE) & ANT11(NR)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6900	-64.36	-13	-51.36	-74.84	2.76	13.24	H
	10350	-61.56	-13	-48.56	-71.15	3.42	13.01	H
	13800	-60.87	-13	-47.87	-70.48	3.83	13.44	H
	6900	-64.87	-13	-51.87	-75.31	2.80	13.24	V
	10350	-62.06	-13	-49.06	-71.61	3.46	13.01	V
	13800	-60.96	-13	-47.96	-70.52	3.88	13.44	V

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

EN-DC_7A_n78A / LTE 10MHz + NR 100MHz / QPSK / ANT3(LTE) & ANT12(NR)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6900	-64.73	-13	-51.73	-75.21	2.76	13.24	H
	10350	-61.53	-13	-48.53	-71.12	3.42	13.01	H
	13800	-61.05	-13	-48.05	-70.66	3.83	13.44	H
	6900	-64.79	-13	-51.79	-75.23	2.80	13.24	V
	10350	-61.74	-13	-48.74	-71.29	3.46	13.01	V
	13800	-61.12	-13	-48.12	-70.68	3.88	13.44	V

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

EN-DC_38A_n78A / LTE 10MHz + NR 100MHz / QPSK / ANT3(LTE) & ANT12(NR)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6900	-65.13	-13	-52.13	-75.61	2.76	13.24	H
	10350	-61.70	-13	-48.70	-71.29	3.42	13.01	H
	13800	-61.36	-13	-48.36	-70.97	3.83	13.44	H
	6900	-65.00	-13	-52.00	-75.44	2.80	13.24	V
	10350	-61.65	-13	-48.65	-71.20	3.46	13.01	V
	13800	-60.99	-13	-47.99	-70.55	3.88	13.44	V

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



EN-DC_41A_n78A / LTE 10MHz + NR 100MHz / QPSK / ANT3(LTE) & ANT12(NR)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6900	-64.82	-13	-51.82	-75.30	2.76	13.24	H
	10356	-48.97	-13	-35.97	-58.56	3.42	13.01	H
	13800	-60.95	-13	-47.95	-70.56	3.83	13.44	H
	6900	-65.01	-13	-52.01	-75.45	2.80	13.24	V
	10356	-60.68	-13	-47.68	-70.23	3.46	13.01	V
	13800	-61.19	-13	-48.19	-70.75	3.88	13.44	V

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

EN-DC_66A_n78A / LTE 10MHz + NR 100MHz / QPSK / ANT3(LTE) & ANT12(NR)								
Channel	Frequency ( MHz )	EIRP ( dBm )	Limit ( dBm )	Over Limit ( dB )	S.G. Power ( dBm )	TX Cable loss ( dB )	TX Antenna Gain (dBi)	Polarization (H/V)
Middle	6900	-65.03	-13	-52.03	-75.51	2.76	13.24	H
	10350	-61.39	-13	-48.39	-70.98	3.42	13.01	H
	13800	-61.13	-13	-48.13	-70.74	3.83	13.44	H
	6900	-65.00	-13	-52.00	-75.44	2.80	13.24	V
	10350	-61.95	-13	-48.95	-71.50	3.46	13.01	V
	13800	-61.21	-13	-48.21	-70.77	3.88	13.44	V

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