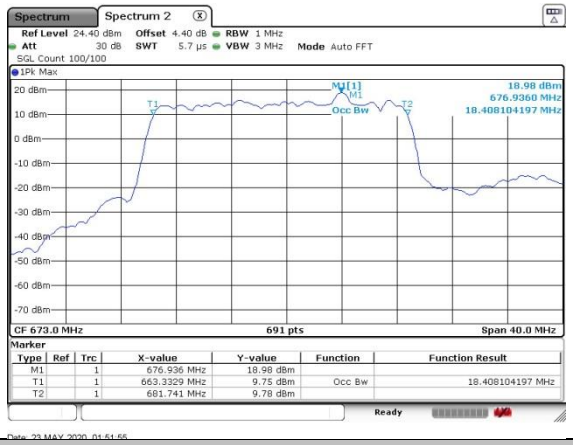
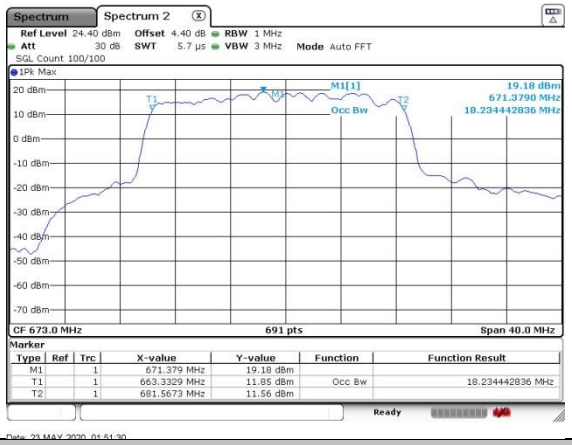
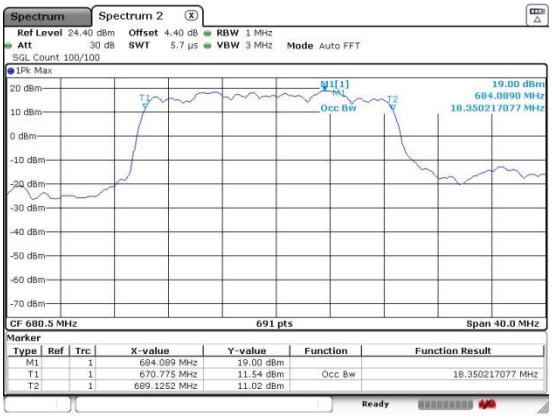
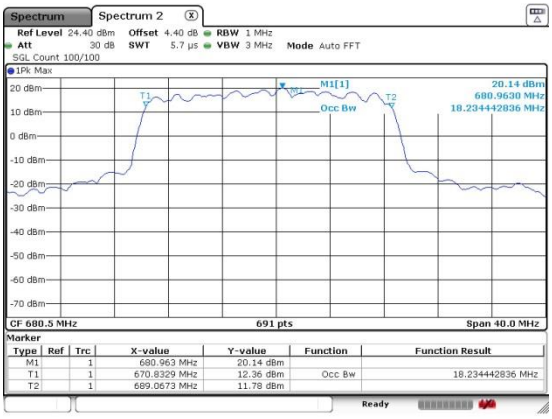
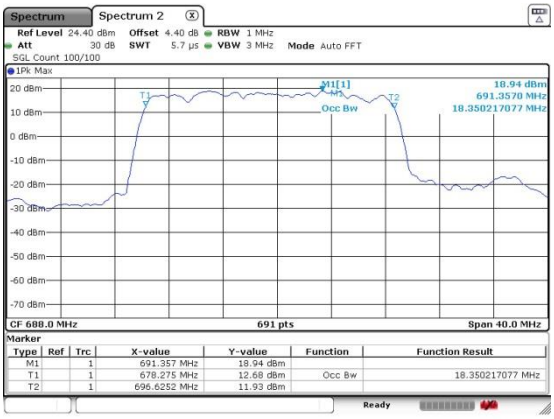
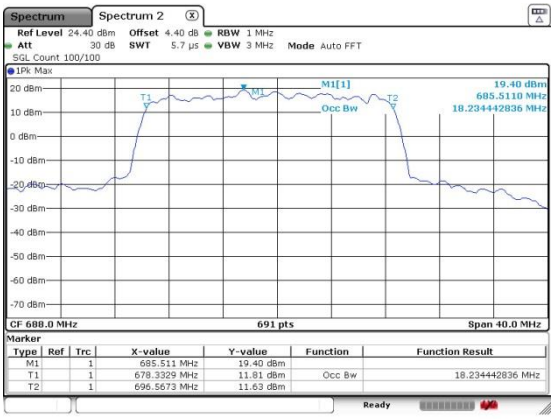
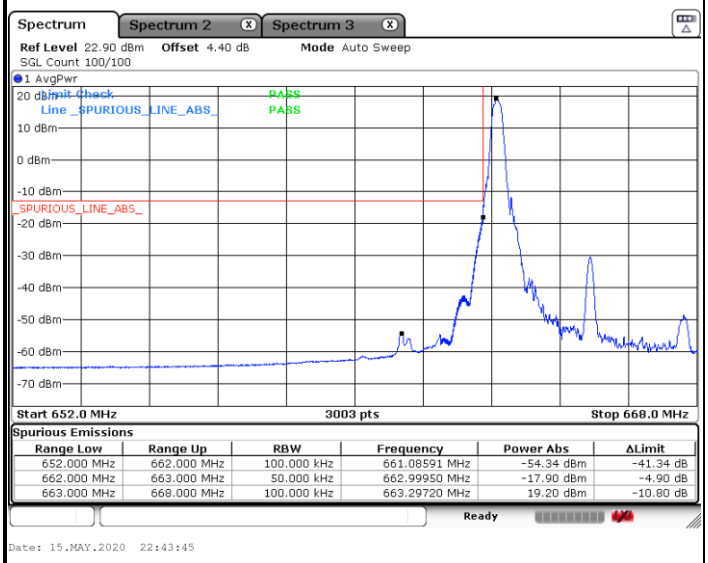
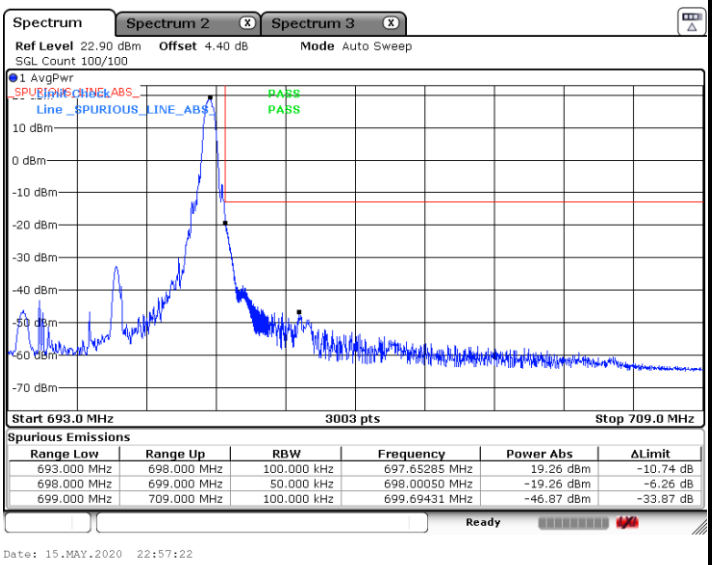
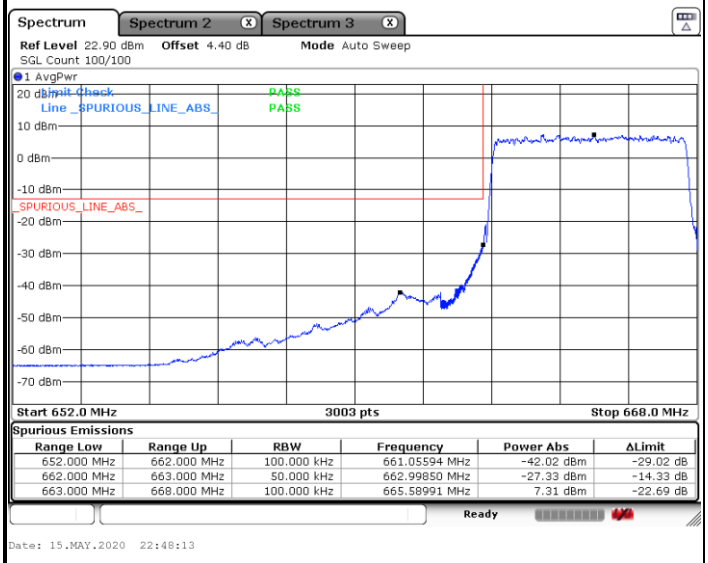
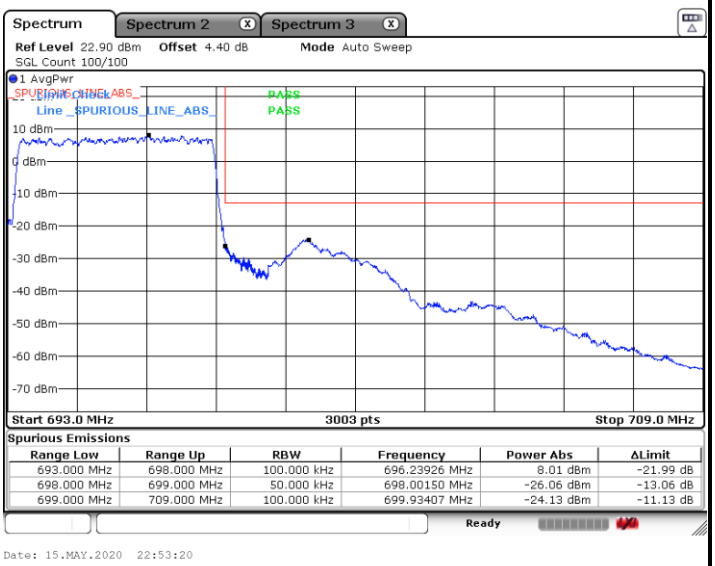
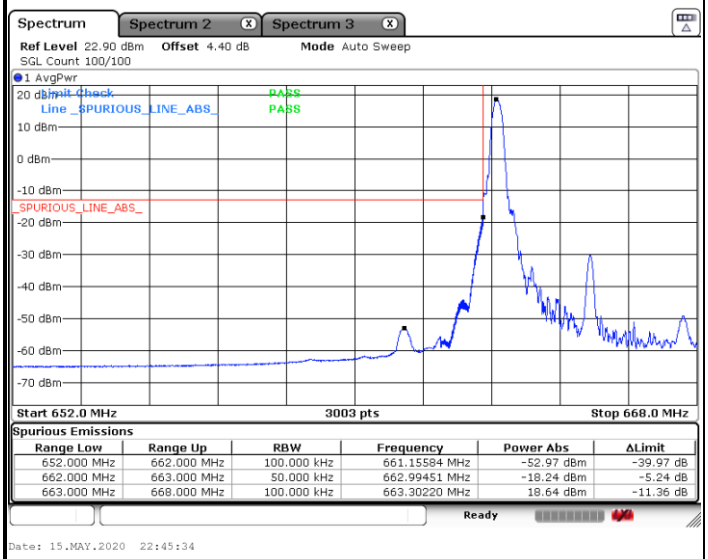
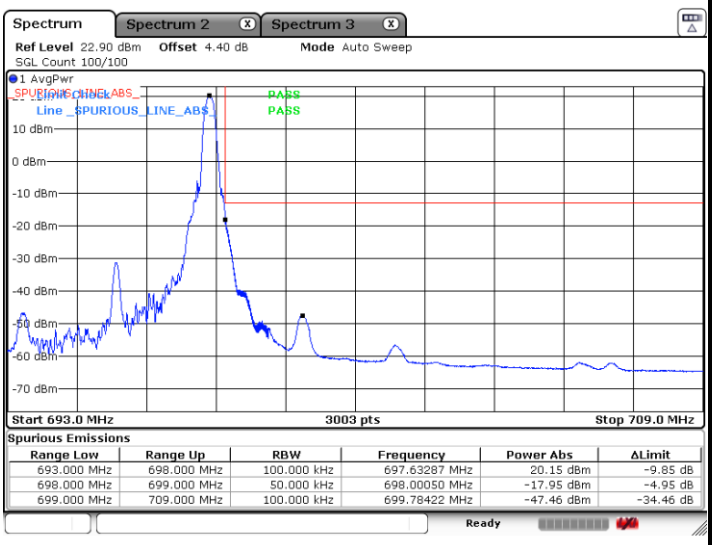
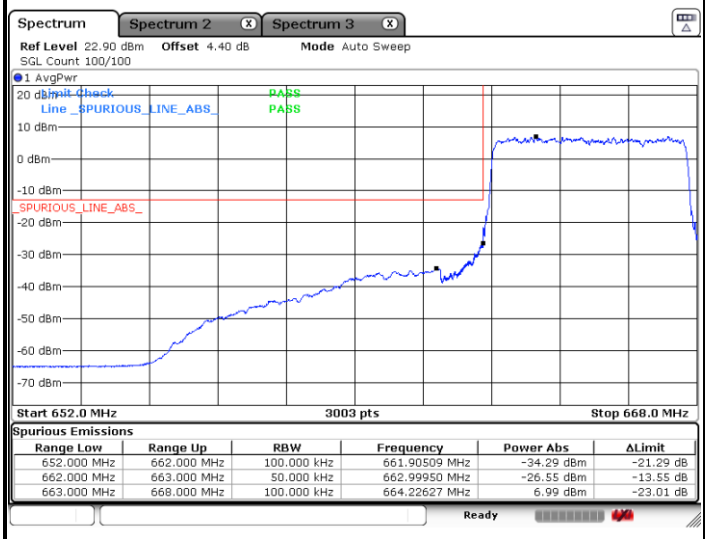
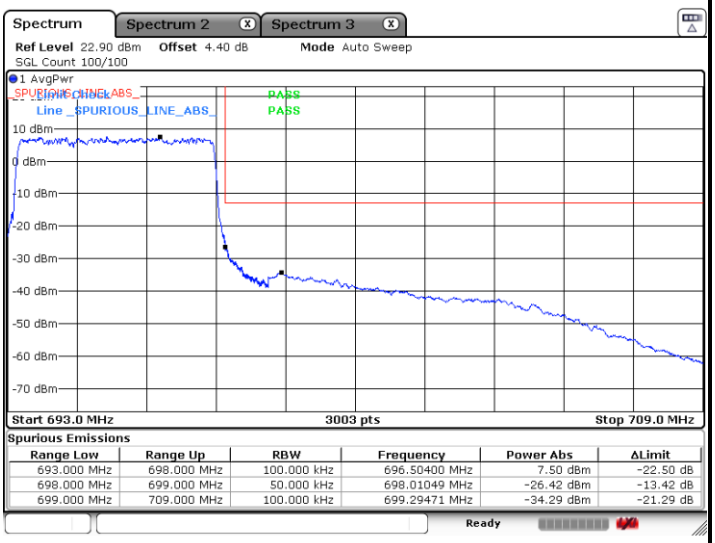
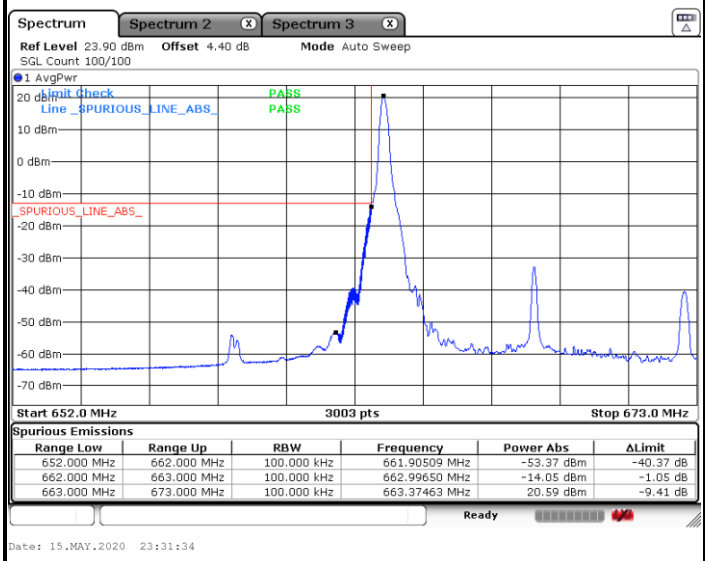
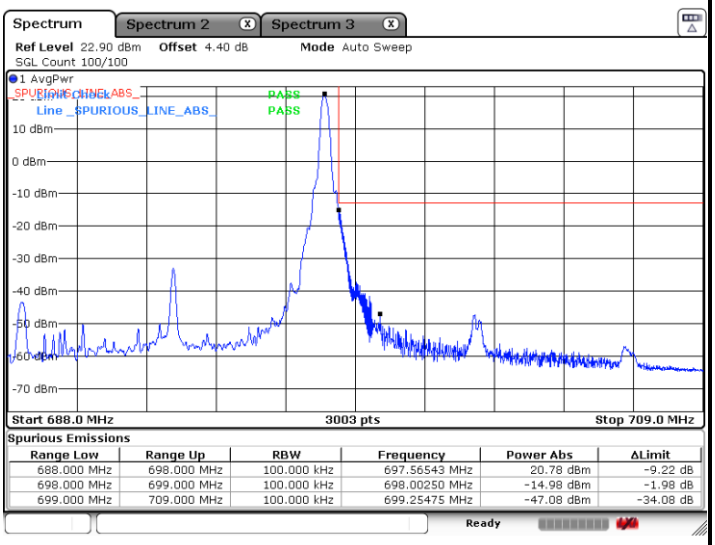
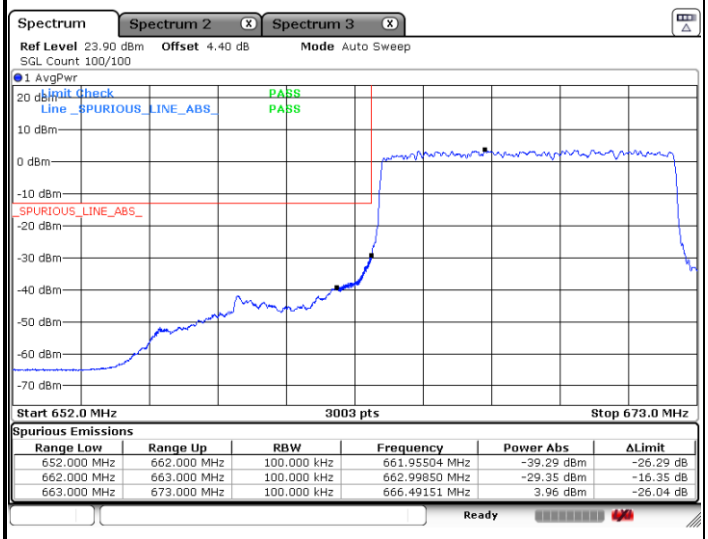
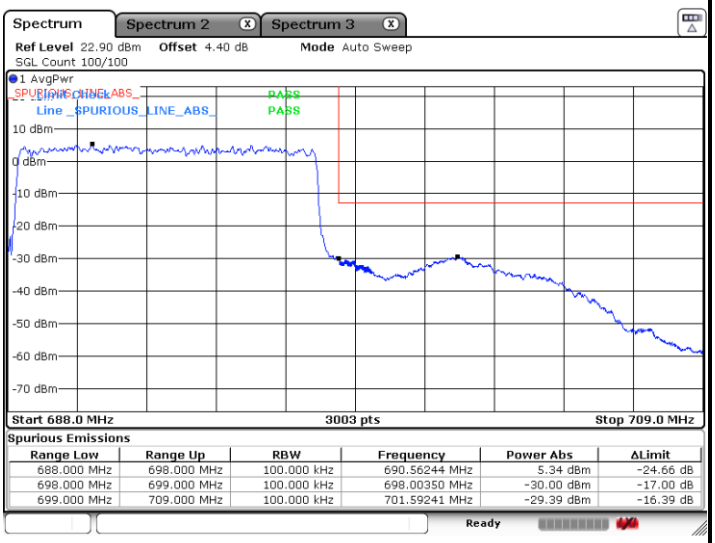
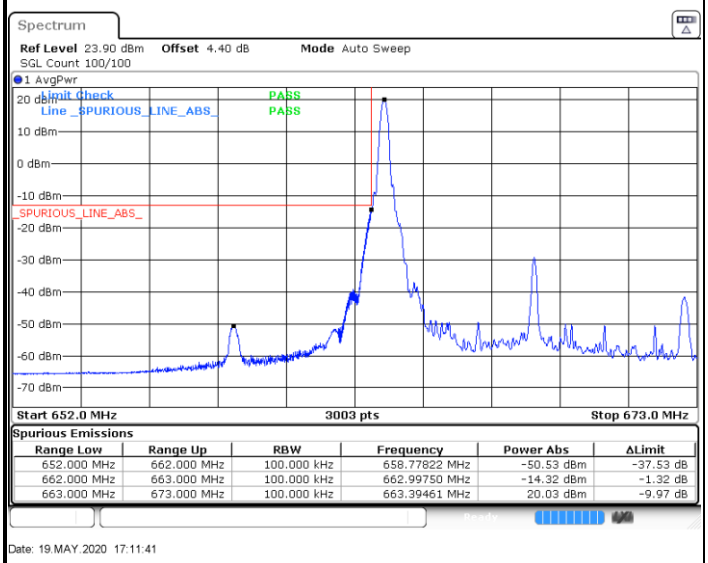
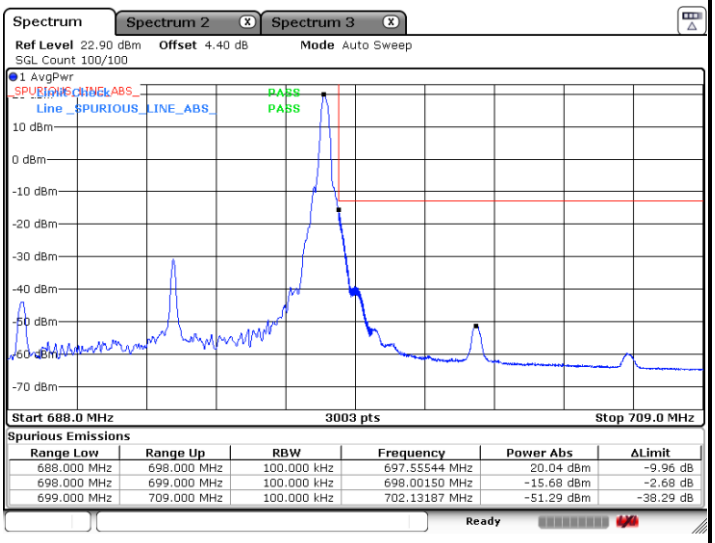
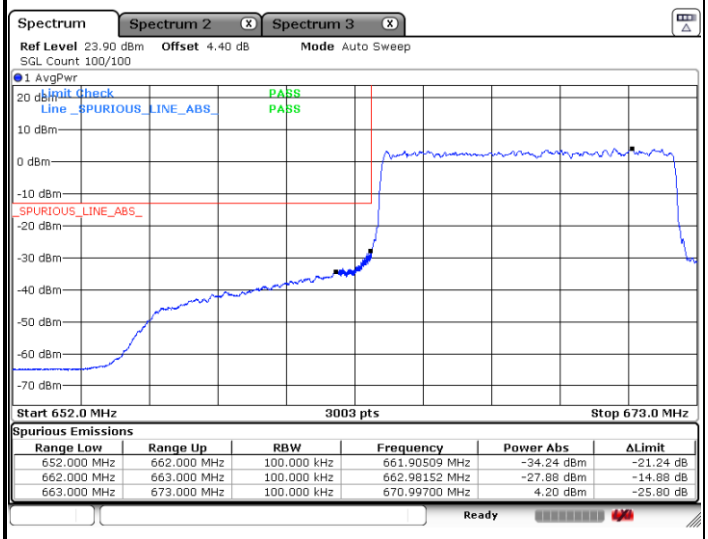
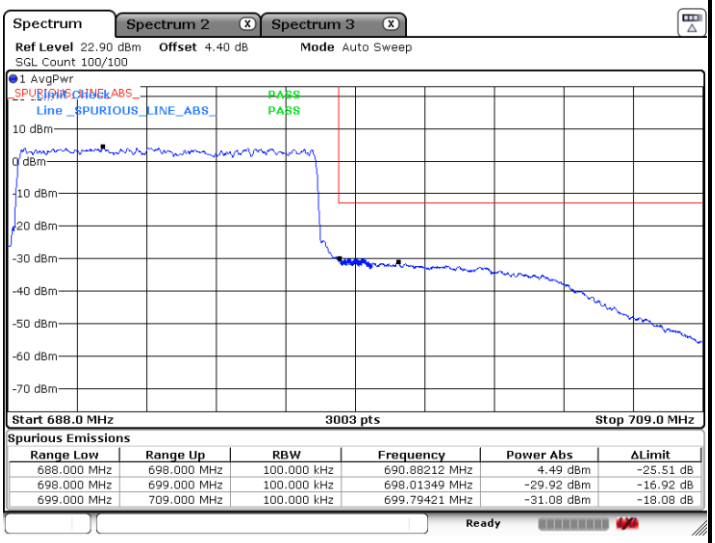
n71	
20MHz	
Lowest Channel / BPSK	Lowest Channel / 16QAM
	
Middle Channel / BPSK	Middle Channel / 16QAM
	
Highest Channel / BPSK	Highest Channel / 16QAM
	

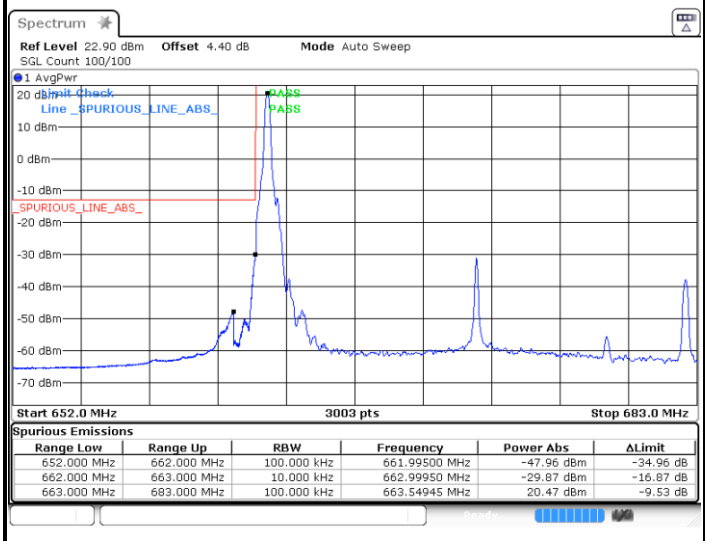
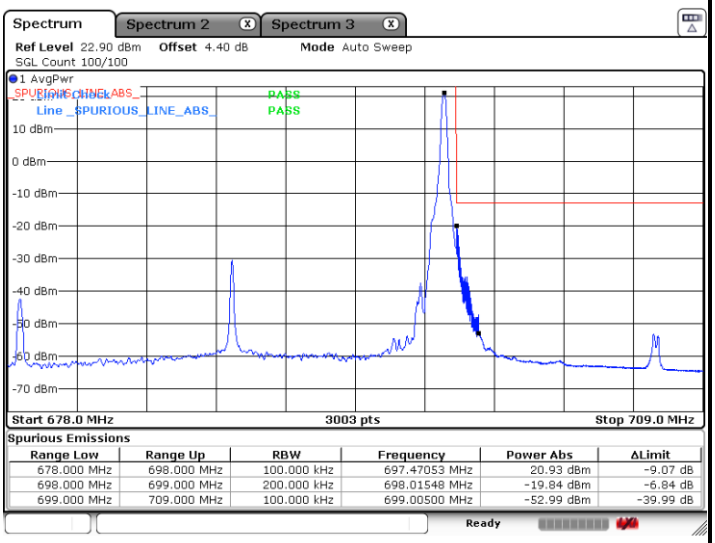
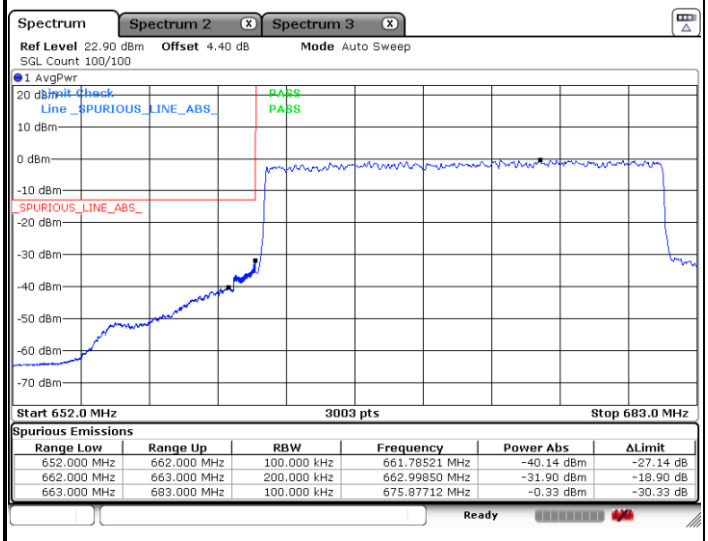
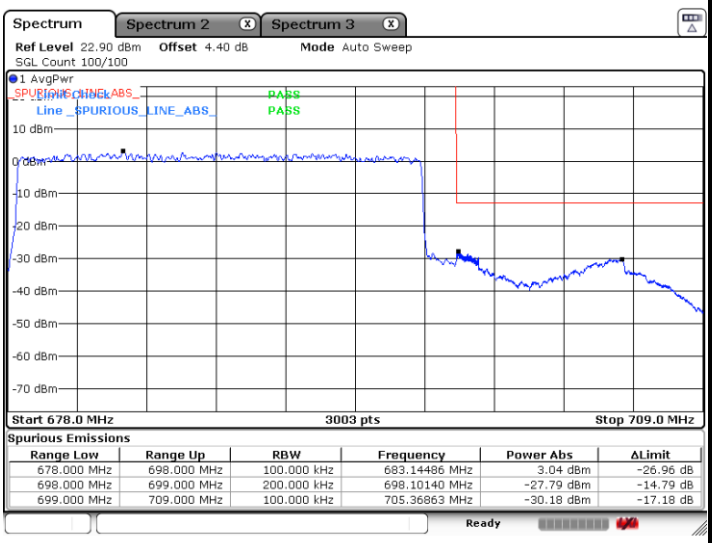
A6.4. Conducted Band Edge

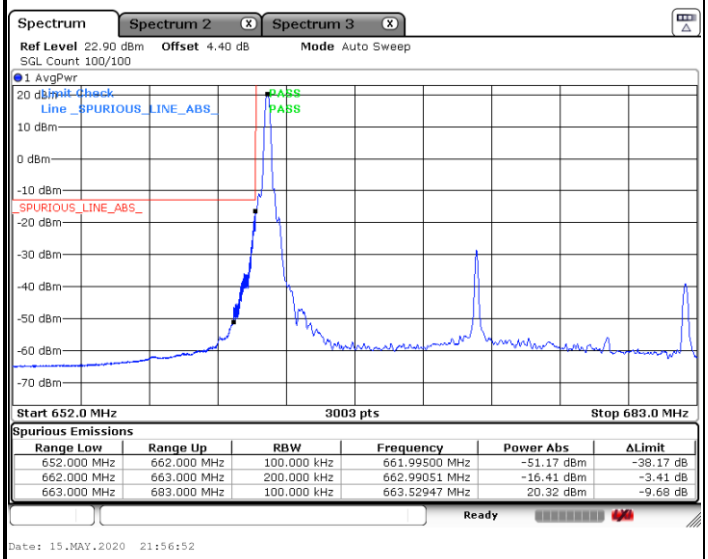
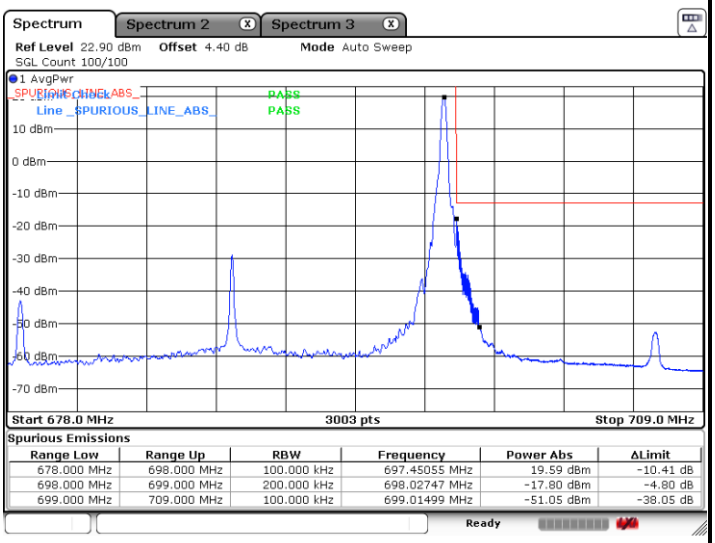
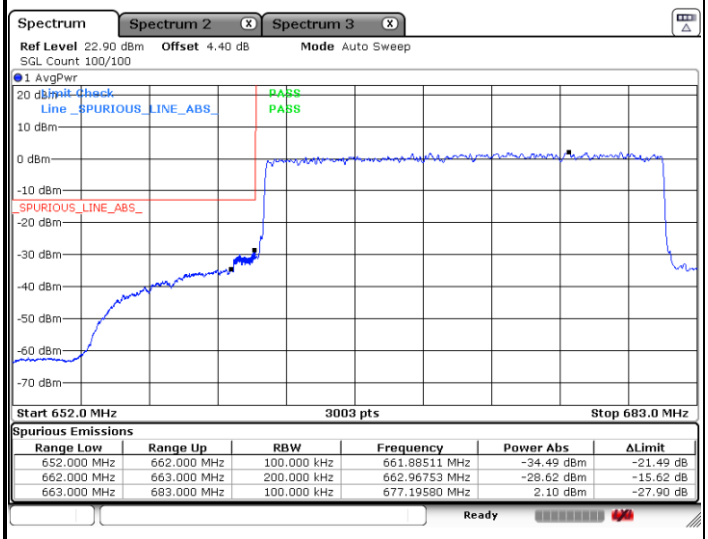
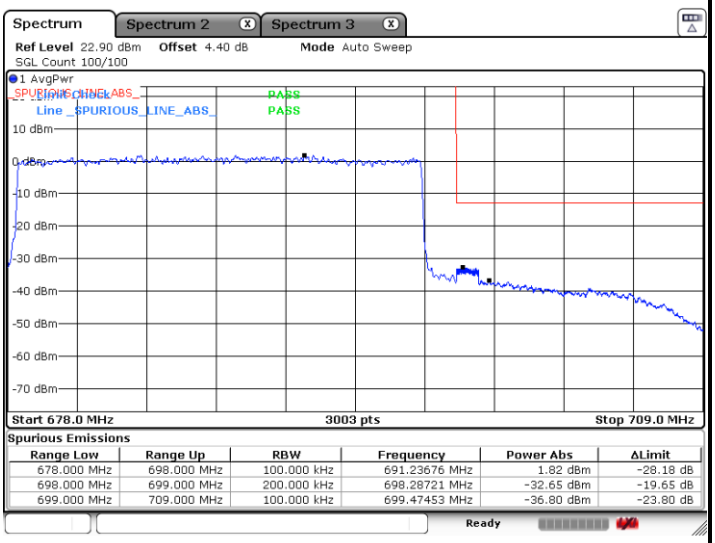
n71 / 5MHz / BPSK	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RB24**
	
Lowest Band Edge / 25RB0	**Highest Band Edge / 25RB0**
	

n71 / 5MHz / 16QAM	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RB24**
	
Lowest Band Edge / 25RB0	**Highest Band Edge / 25RB0**
	

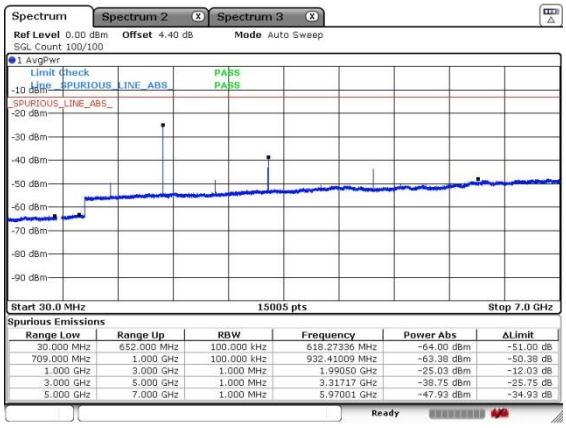
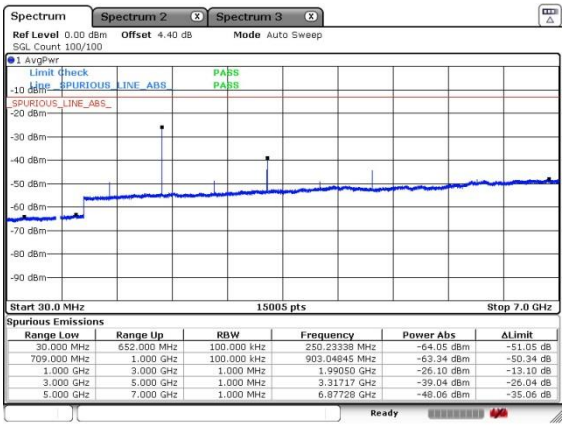
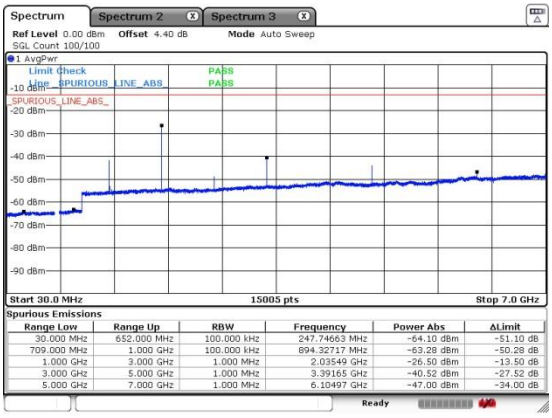
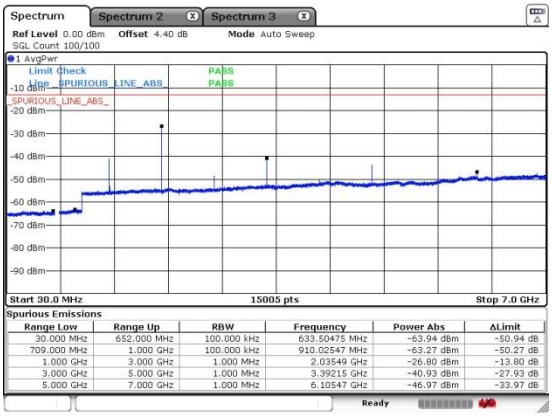
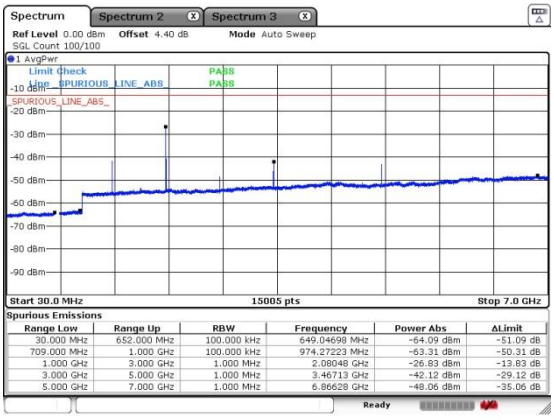
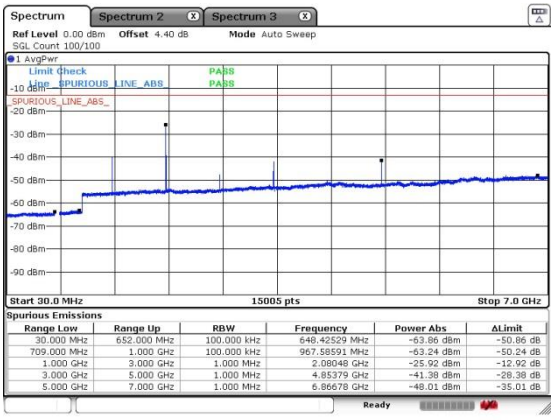
n71 / 10MHz / BPSK	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RB51**
	
Lowest Band Edge / 50RB0	**Highest Band Edge / 50RB0**
	

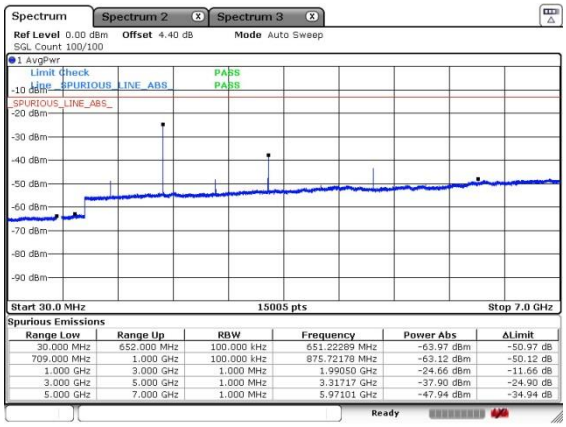
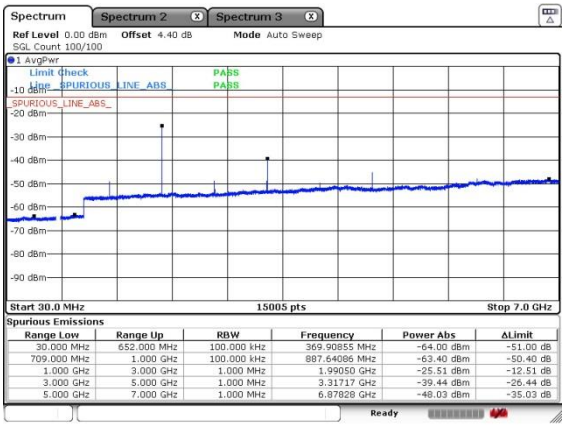
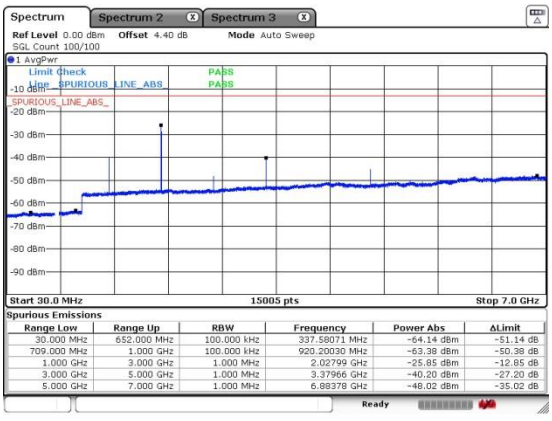
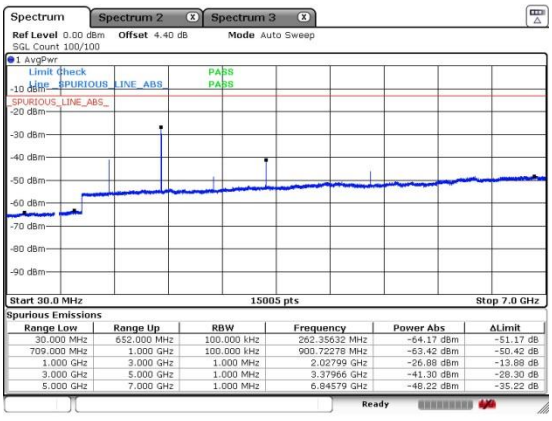
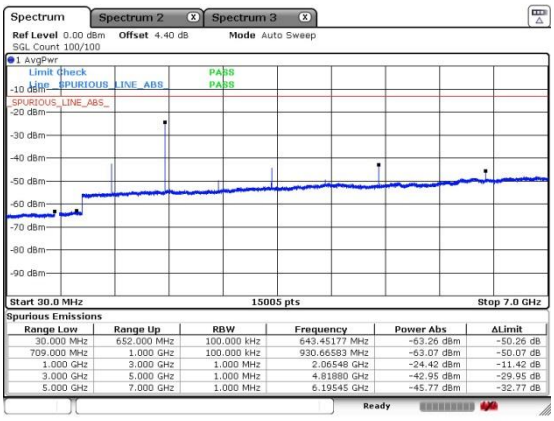
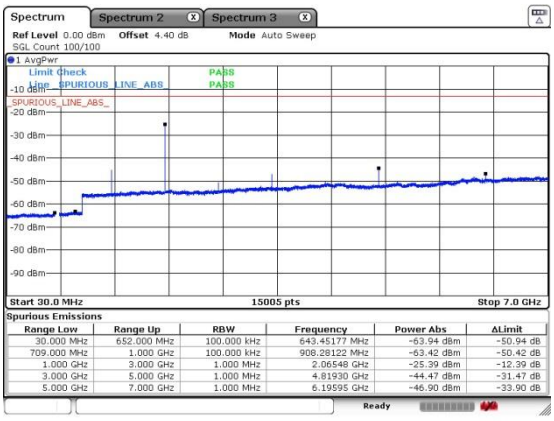
n71 / 10MHz / 16QAM	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RB51**
	
Lowest Band Edge / 50RB0	**Highest Band Edge / 50RB0**
	

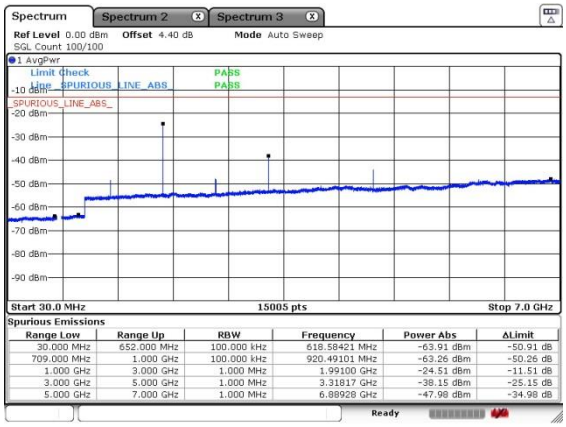
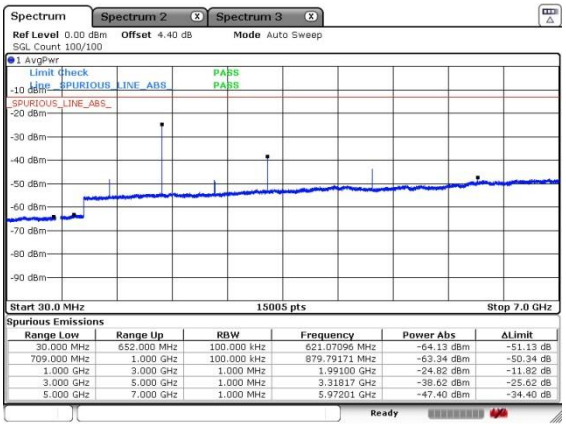
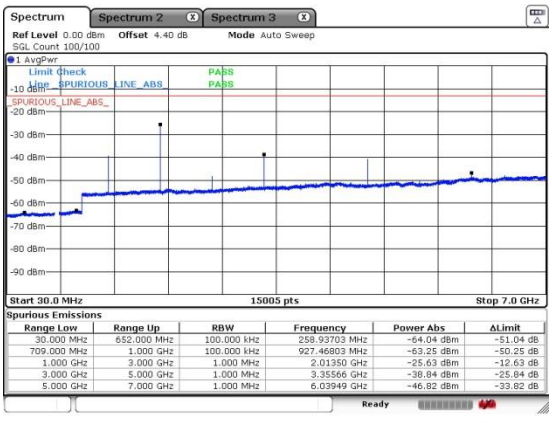
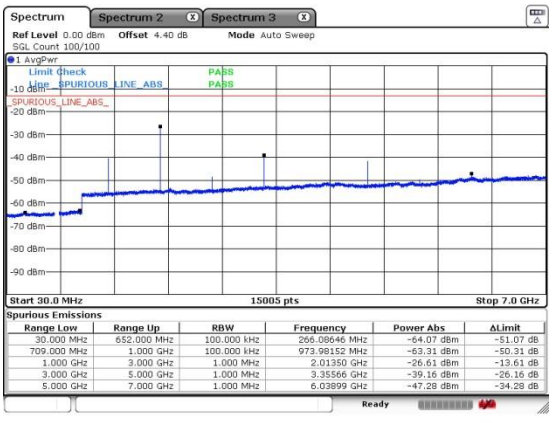
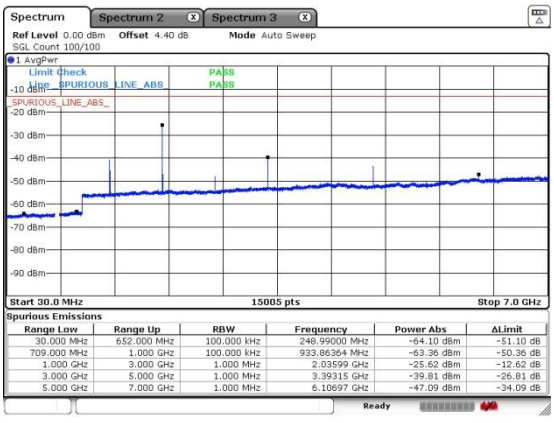
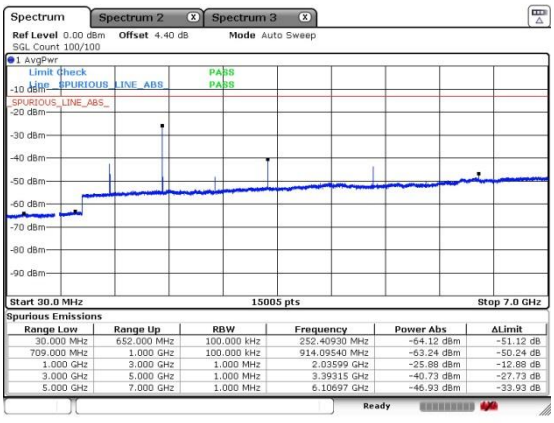
n71 / 20MHz / BPSK	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RB105**
	
Lowest Band Edge / 100RB0	**Highest Band Edge / 100RB0**
	

n71 / 20MHz / 16QAM	
Lowest Band Edge / 1RB0	**Highest Band Edge / 1RB105**
	
Lowest Band Edge / 100RB0	**Highest Band Edge / 100RB0**
	

A6.5. Conducted Spurious Emission

n71 / 5MHz	
Lowest Channel / BPSK	**Lowest Channel / 16QAM**
	
Middle Channel / BPSK	**Middle Channel / 16QAM**
	
Highest Channel / BPSK	**Highest Channel / 16QAM**
	

n71A / 10MHz	
Lowest Channel / BPSK	**Lowest Channel / 16QAM**
	
Middle Channel / BPSK	**Middle Channel / 16QAM**
	
Highest Channel / BPSK	**Highest Channel / 16QAM**
	

n71 / 20MHz	
Lowest Channel / BPSK	**Lowest Channel / 16QAM**
	
Middle Channel / BPSK	**Middle Channel / 16QAM**
	
Highest Channel / BPSK	**Highest Channel / 16QAM**
	

A6.6. Frequency Stability

Test Conditions		n71 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0017	PASS
40	Normal Voltage	0.0011	
30	Normal Voltage	0.0018	
20(Ref.)	Normal Voltage	0.0013	
10	Normal Voltage	0.0015	
0	Normal Voltage	0.0021	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0007	
-30	Normal Voltage	0.0005	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0013	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =110 V. ; Battery End Point (BEP) =100 V. ; Maximum Voltage =120 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

Appendix B.Test Results of Radiated Test

Radiated Spurious Emission

5G NR NSA (EN-DC) mode:

EN-DC_12A_n2A / LTE 10MHz + NR 20MHz / QPSK								
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)
NR n2 Middle CH	3780	-56.97	-13	-43.97	-69.23	2.64	14.90	H
	5664	-53.27	-13	-40.27	-65.13	2.94	14.80	H
	7554	-48.70	-13	-35.70	-58.47	3.39	13.16	H
	3780	-56.55	-13	-43.55	-68.81	2.64	14.90	V
	5664	-53.43	-13	-40.43	-65.29	2.94	14.80	V
	7554	-48.13	-13	-35.13	-57.90	3.39	13.16	V
LTE Band12 Middle CH	1424	-56.05	-13	-43.05	-63.02	1.58	10.70	H
	2136	-54.75	-13	-41.75	-63.00	2.102	12.50	H
	2848	-51.49	-13	-38.49	-60.38	2.856	13.90	H
	1424	-55.45	-13	-42.45	-62.42	1.58	10.70	V
	2136	-53.71	-13	-40.71	-61.96	2.10	12.50	V
	2848	-51.62	-13	-38.62	-60.51	2.86	13.90	V

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

EN-DC_66A_n25A / LTE 20MHz + NR 20MHz / QPSK								
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)
NR n25 Middle CH	3783	-57.07	-13	-44.07	-69.33	2.64	14.90	H
	5673	-53.54	-13	-40.54	-65.40	2.94	14.80	H
	7560	-48.44	-13	-35.44	-58.21	3.39	13.16	H
	3783	-56.94	-13	-43.94	-69.20	2.64	14.90	V
	5673	-53.04	-13	-40.04	-64.90	2.94	14.80	V
	7560	-48.08	-13	-35.08	-57.85	3.39	13.16	V
LTE Band66 Middle CH	3507	-43.54	-13	-30.54	-54.28	2.604	13.34	H
	5262	-54.63	-13	-41.63	-65.14	3.011	13.52	H
	7020	-50.28	-13	-37.28	-60.48	3.271	13.47	H
	3507	-42.87	-13	-29.87	-53.61	2.604	13.34	V
	5262	-54.60	-13	-41.60	-65.11	3.011	13.52	V
	7020	-49.68	-13	-36.68	-59.88	3.271	13.47	V

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

EN-DC_41A_n41A / LTE 20MHz + NR 100MHz / QPSK								
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)
NR n41 Middle CH	3010	-47.52	-13	-34.52	-55.95	1.93	10.36	H
	5370	-66.55	-13	-53.55	-75.78	2.64	11.87	H
	6250	-53.51	-13	-40.51	-64.34	2.64	13.47	H
	8055	-60.55	-13	-47.55	-67.43	6.91	13.78	H
	9648	-40.22	-13	-27.22	-47.61	7.74	15.13	H
	10359	-50.21	-13	-37.21	-57.88	8.62	16.29	H
	10737	-55.53	-13	-42.53	-63.48	9.51	17.45	H
	11493	-49.46	-13	-36.46	-56.12	7.55	14.21	H
	3010	-53.90	-13	-40.90	-62.33	1.93	10.36	V
	5370	-66.63	-13	-53.63	-75.86	2.64	11.87	V
	6250	-60.83	-13	-47.83	-71.66	2.64	13.47	V
	8055	-60.01	-13	-47.01	-66.89	6.91	13.78	V
	9648	-44.39	-13	-31.39	-51.05	7.55	14.21	V
	10359	-53.20	-13	-40.20	-60.28	8.47	15.55	V
	10737	-55.64	-13	-42.64	-62.85	9.32	16.53	V
LTE Band41 Middle CH	5030	-66.39	-13	-53.39	-76.60	3.03	13.24	H
	7545	-61.50	-13	-48.50	-70.95	3.56	13.01	H
	10062	-57.24	-13	-44.24	-66.76	3.92	13.44	H
	5030	-66.09	-13	-53.09	-76.30	3.03	13.24	V
	7545	-60.96	-13	-47.96	-70.41	3.56	13.01	V
	10062	-57.54	-13	-44.54	-67.06	3.92	13.44	V

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

EN-DC_(n)41AA / LTE 20MHz + NR 100MHz / QPSK								
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)
NR n41 Middle CH	3067	-49.40	-13	-36.40	-57.83	1.93	10.36	H
	5075	-64.91	-13	-51.91	-74.14	2.64	11.87	H
	6250	-54.24	-13	-41.24	-65.07	2.64	13.47	H
	7615	-60.81	-13	-47.81	-67.69	6.91	13.78	H
	9648	-40.04	-13	-27.04	-47.43	7.74	15.13	H
	10152	-57.29	-13	-44.29	-64.96	8.62	16.29	H
	10359	-49.08	-13	-36.08	-57.03	9.51	17.45	H
	11493	-48.81	-13	-35.81	-55.47	7.55	14.21	H
	3067	-55.07	-13	-42.07	-63.50	1.93	10.36	V
	5075	-64.93	-13	-51.93	-74.16	2.64	11.87	V
	6250	-60.92	-13	-47.92	-71.75	2.64	13.47	V
	7615	-60.18	-13	-47.18	-67.06	6.91	13.78	V
	9648	-44.26	-13	-31.26	-50.92	7.55	14.21	V
	10152	-57.54	-13	-44.54	-64.62	8.47	15.55	V
	10359	-52.40	-13	-39.40	-59.61	9.32	16.53	V
LTE Band41 Middle CH	5270	-65.47	-13	-52.47	-75.68	3.03	13.24	H
	7900	-60.69	-13	-47.69	-70.14	3.56	13.01	H
	10539	-55.61	-13	-42.61	-65.13	3.92	13.44	H
	5270	-65.28	-13	-52.28	-75.49	3.03	13.24	V
	7900	-59.81	-13	-46.81	-69.26	3.56	13.01	V
	10539	-55.90	-13	-42.90	-65.42	3.92	13.44	V

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

EN-DC_2A_n66A / LTE 20MHz + NR 20MHz / QPSK								
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)
NR n66 Middle CH	3489	-60.07	-13	-47.07	-70.81	2.604	13.34	H
	5235	-54.76	-13	-41.76	-65.27	3.011	13.52	H
	6984	-50.17	-13	-37.17	-60.37	3.271	13.47	H
	3489	-60.13	-13	-47.13	-70.87	2.604	13.34	V
	5235	-54.48	-13	-41.48	-64.99	3.011	13.52	V
	6984	-49.91	-13	-36.91	-60.11	3.271	13.47	V
LTE Band2 Middle CH	3759	-57.05	-13	-44.05	-69.31	2.64	14.90	H
	5640	-53.46	-13	-40.46	-65.32	2.94	14.80	H
	7524	-48.21	-13	-35.21	-57.98	3.39	13.16	H
	3759	-57.08	-13	-44.08	-69.34	2.64	14.90	V
	5640	-53.41	-13	-40.41	-65.27	2.94	14.80	V
	7524	-47.77	-13	-34.77	-57.54	3.39	13.16	V

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

EN-DC_2A_n71A / LTE 20MHz + NR 20MHz / QPSK								
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)
NR n71 Middle CH	1344	-66.36	-13	-53.36	-68.11	1.02	4.92	H
	2014	-64.94	-13	-51.94	-66.91	1.27	5.39	H
	2686	-62.13	-13	-49.13	-65.06	1.49	6.57	H
	1344	-67.08	-13	-54.08	-68.83	1.02	4.92	V
	2014	-64.99	-13	-51.99	-66.96	1.27	5.39	V
	2686	-61.90	-13	-48.90	-64.83	1.49	6.57	V
LTE Band2 Middle CH	3744	-56.93	-13	-43.93	-69.19	2.64	14.90	H
	5616	-53.16	-13	-40.16	-65.02	2.94	14.80	H
	7482	-48.69	-13	-35.69	-58.46	3.39	13.16	H
	3744	-57.15	-13	-44.15	-69.41	2.64	14.90	V
	5616	-52.93	-13	-39.93	-64.79	2.94	14.80	V
	7482	-48.36	-13	-35.36	-58.13	3.39	13.16	V

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

5G NR SA mode:

n2A / NR 20MHz / QPSK								
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)
NR n2 Middle CH	3759	-57.76	-13	-44.76	-70.02	2.64	14.90	H
	5640	-53.66	-13	-40.66	-65.52	2.94	14.80	H
	7524	-48.44	-13	-35.44	-58.21	3.39	13.16	H
	3759	-57.39	-13	-44.39	-69.65	2.64	14.90	V
	5640	-53.51	-13	-40.51	-65.37	2.94	14.80	V
	7524	-47.84	-13	-34.84	-57.61	3.39	13.16	V

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

n25A / NR 10MHz / QPSK								
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)
NR n25 Middle CH	3765	-57.40	-13	-44.40	-69.66	2.64	14.90	H
	5646	-53.45	-13	-40.45	-65.31	2.94	14.80	H
	7536	-48.35	-13	-35.35	-58.12	3.39	13.16	H
	3765	-57.13	-13	-44.13	-69.39	2.64	14.90	V
	5649	-53.45	-13	-40.45	-65.31	2.94	14.80	V
	7536	-47.67	-13	-34.67	-57.44	3.39	13.16	V

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

n41A / NR 100MHz / QPSK								
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)
NR n41 Middle CH	5184	-63.20	-13	-50.20	-73.41	3.03	13.24	H
	7660	-59.55	-13	-46.55	-69.00	3.56	13.01	H
	10360	-50.56	-13	-37.56	-60.08	3.92	13.44	H
	5184	-66.31	-13	-53.31	-76.52	3.03	13.24	V
	7660	-60.44	-13	-47.44	-69.89	3.56	13.01	V
	10360	-52.46	-13	-39.46	-61.98	3.92	13.44	V

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

n66A / NR 5MHz / QPSK								
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)
NR n66 Middle CH	3489	-60.23	-13	-47.23	-70.97	2.604	13.34	H
	5235	-54.68	-13	-41.68	-65.19	3.011	13.52	H
	6984	-50.21	-13	-37.21	-60.41	3.271	13.47	H
	3489	-60.36	-13	-47.36	-71.10	2.604	13.34	V
	5235	-54.86	-13	-41.86	-65.37	3.011	13.52	V
	6984	-50.00	-13	-37.00	-60.20	3.271	13.47	V

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

n71A / NR 20MHz / QPSK								
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)
NR n71 Middle CH	1344	-63.61	-13	-50.61	-65.36	1.02	4.92	H
	2014.77	-63.95	-13	-50.95	-65.92	1.27	5.39	H
	2686.36	-61.74	-13	-48.74	-64.67	1.49	6.57	H
	1343.18	-64.94	-13	-51.94	-66.69	1.02	4.92	V
	2014.77	-63.97	-13	-50.97	-65.94	1.27	5.39	V
	2686	-61.50	-13	-48.50	-64.43	1.49	6.57	V

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

Appendix C.Setup Photographs