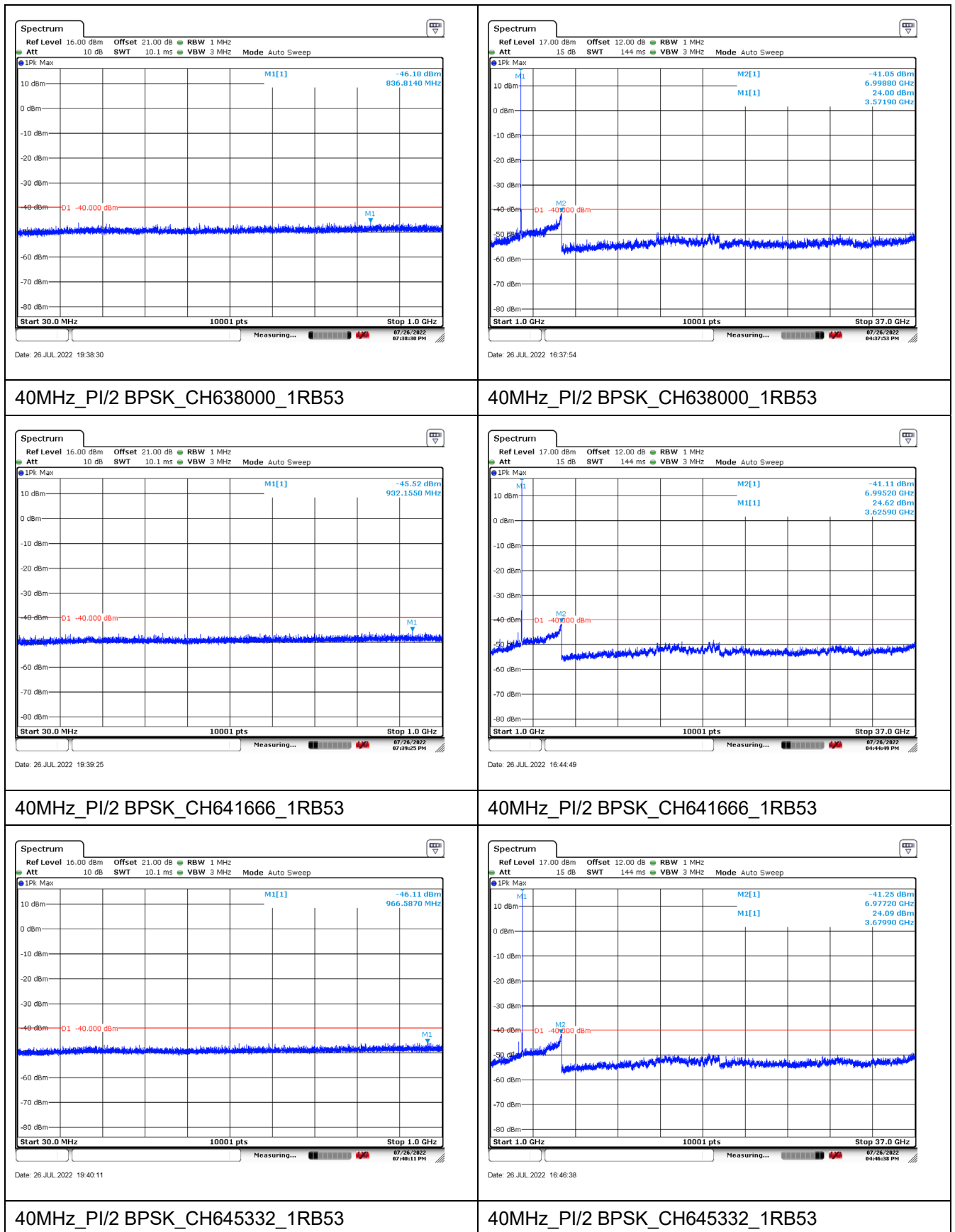
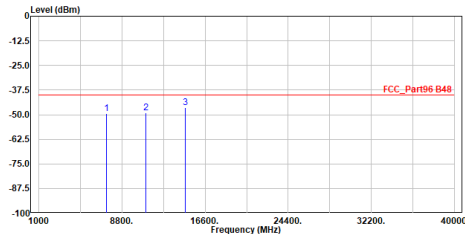




6.6. Test Result of Field Strength of Spurious Radiation

<

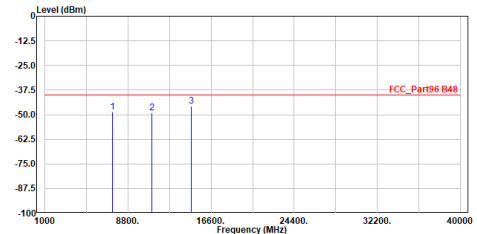
Site :HY-CB03
Condition :3m Horizontal
Mode :SGNR_N48_Link_CH645332
Test BY :Daneil Wu



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	Line	Limit	Level	dB	
1	7360.000	-49.29	-40.00	-9.29	-55.79	6.50	Peak
2	11040.000	-49.03	-40.00	-9.03	-56.83	7.80	Peak
3	14720.000	-46.30	-40.00	-6.30	-59.52	13.22	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

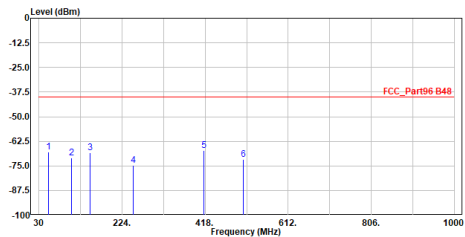
Site :HY-CB03
Condition :3m Vertical
Mode :SGNR_N48_Link_CH645332
Test BY :Daneil Wu



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	Line	Limit	Level	dB	
1	7360.000	-48.77	-40.00	-8.77	-55.27	6.50	Peak
2	11040.000	-49.12	-40.00	-9.12	-56.92	7.80	Peak
3	14720.000	-45.68	-40.00	-5.68	-58.90	13.22	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

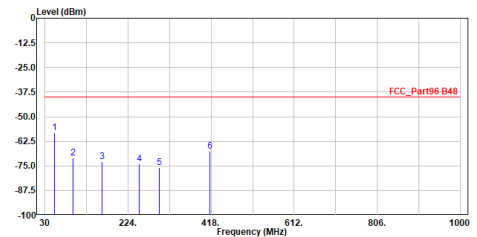
Site :HY-CB03
Condition :3m Horizontal
Mode :SGNR_N48_Link_CH638000
Test BY :Daneil Wu



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	Line	Limit	Level	dB	
1	52.553	-67.81	-40.00	-27.81	-55.29	-12.52	Peak
2	106.630	-71.11	-40.00	-31.11	-54.97	-16.14	Peak
3	149.916	-68.38	-40.00	-28.38	-55.63	-12.75	Peak
4	251.039	-74.64	-40.00	-34.64	-60.99	-13.65	Peak
5	415.333	-67.06	-40.00	-27.06	-58.13	-8.93	Peak
6	507.361	-71.70	-40.00	-31.70	-65.05	-6.65	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

Site :HY-CB03
Condition :3m Vertical
Mode :SGNR_N48_Link_CH638000
Test BY :Daneil Wu

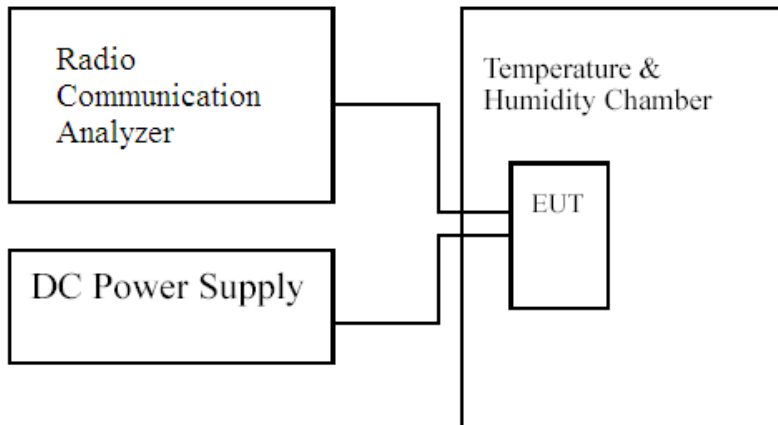


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	Line	Limit	Level	dB	
1	52.795	-58.21	-40.00	-18.21	-45.70	-12.51	Peak
2	95.839	-70.79	-40.00	-30.79	-52.72	-18.07	Peak
3	163.981	-72.76	-40.00	-32.76	-60.39	-12.37	Peak
4	249.948	-73.83	-40.00	-33.83	-60.16	-13.67	Peak
5	296.993	-75.72	-40.00	-35.72	-63.72	-12.00	Peak
6	414.484	-67.60	-40.00	-27.60	-58.65	-8.95	Peak

Note:
1. Level = Read Level + Factor
2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor
3. Over Limit = Level - Limit Line
4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)
= 107 + 20log(3) - 104.8 = 11.8 dB
5. The other emission levels were very low against the limit.
6. The emission under 1GHz was not included since the emission levels are very low against the limit.

7. Frequency Stability

7.1. Test Setup



7.2. Test Limit

Limit: $\leq \pm 2.5$ ppm

7.3. Test Procedure

The frequency stability of transmitter is measured by:

- (a) Temperature: The temperature is varied from -30°C to 50°C in 10°C increment using a standard temperature & Humidity chamber.
- (b) Primary Supply Voltage: The primary supply voltage is varied 85% to 115% of the nominal value for non hand-carried equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating endpoint which shall be specified by the manufacturer.

The EUT was connected via the base station simulator. Universal Radio Communication Tester, was used to measure The Frequency Error. The maximum result of measurements was recorded.

7.4. Test Specification

According to Part 2.1055

7.5. Test Result of Frequency Stability

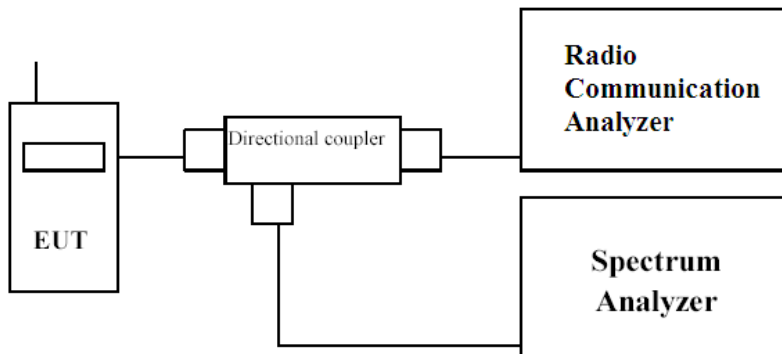
Mode 1: 5G NR n48

Temperature	Channel	Deviation (kHz)			
Interval(°C)		10M	20M	30M	40M
-30	low	-0.0144	-0.0108	-0.0145	-0.0229
-30	Mid	0.0165	-0.0152	-0.0226	-0.0104
-30	high	-0.0163	-0.0160	-0.0121	0.0176
-20	low	-0.0191	-0.0136	-0.0180	-0.0111
-20	Mid	0.0112	-0.0151	-0.0179	-0.0186
-20	high	-0.0158	-0.0159	-0.0142	0.0149
-10	low	-0.0147	-0.0101	-0.0150	-0.0208
-10	Mid	-0.0222	-0.0126	-0.0225	-0.0129
-10	high	-0.0192	-0.0130	-0.0181	0.0170
0	low	-0.0164	0.0200	-0.0115	-0.0125
0	Mid	0.0105	-0.0148	-0.0114	-0.0174
0	high	-0.0138	-0.0116	-0.0209	0.0197
10	low	-0.0137	-0.0105	-0.0123	-0.0104
10	Mid	0.0127	-0.0214	-0.0203	-0.0151
10	high	-0.0147	-0.0141	-0.0150	0.0156
20	low	-0.0208	0.0130	-0.0117	-0.0097
20	Mid	-0.0094	-0.0256	-0.0159	-0.0119
20	high	-0.0129	-0.0131	-0.0146	0.0147
30	low	-0.0173	0.0100	-0.0128	-0.0143
30	Mid	0.0116	-0.0158	-0.0110	-0.0111
30	high	-0.0179	-0.0201	-0.0122	0.0113
40	low	-0.0177	-0.0121	-0.0138	-0.0120
40	Mid	-0.0108	-0.0122	-0.0116	-0.0108
40	high	-0.0160	-0.0147	-0.0136	0.0173
50	low	-0.0229	-0.0143	-0.0215	-0.0105
50	Mid	-0.0113	-0.0198	-0.0189	-0.0104
50	high	-0.0169	-0.0149	-0.0166	0.0131

Voltage Variations					
AC Voltage	Channel	Deviation (kHz)			
(V)		10M	20M	30M	40M
138	low	-0.0171	-0.0138	-0.0163	-0.0083
138	Mid	-0.0165	-0.0145	-0.0099	-0.0144
138	high	-0.0279	0.0119	-0.0200	0.0126
120	low	-0.0208	0.0130	-0.0117	-0.0097
120	Mid	-0.0094	-0.0256	-0.0159	-0.0119
120	high	-0.0129	-0.0131	-0.0146	0.0147
102	low	-0.0170	-0.0135	0.0114	-0.0139
102	Mid	-0.0146	-0.0126	-0.0140	-0.0177
102	high	-0.0234	-0.0144	-0.0154	0.0188

8. Peak to Average Ratio

8.1. Test Setup



8.2. Test Limit

The peak-to-average power ratio (PAPR) of the transmitter output power must not exceed 13 dB. The PAPR measurements should be made using either an instrument with complementary cumulative distribution function (CCDF) capabilities to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time or other Commission approved procedure.

8.3. Test Procedure

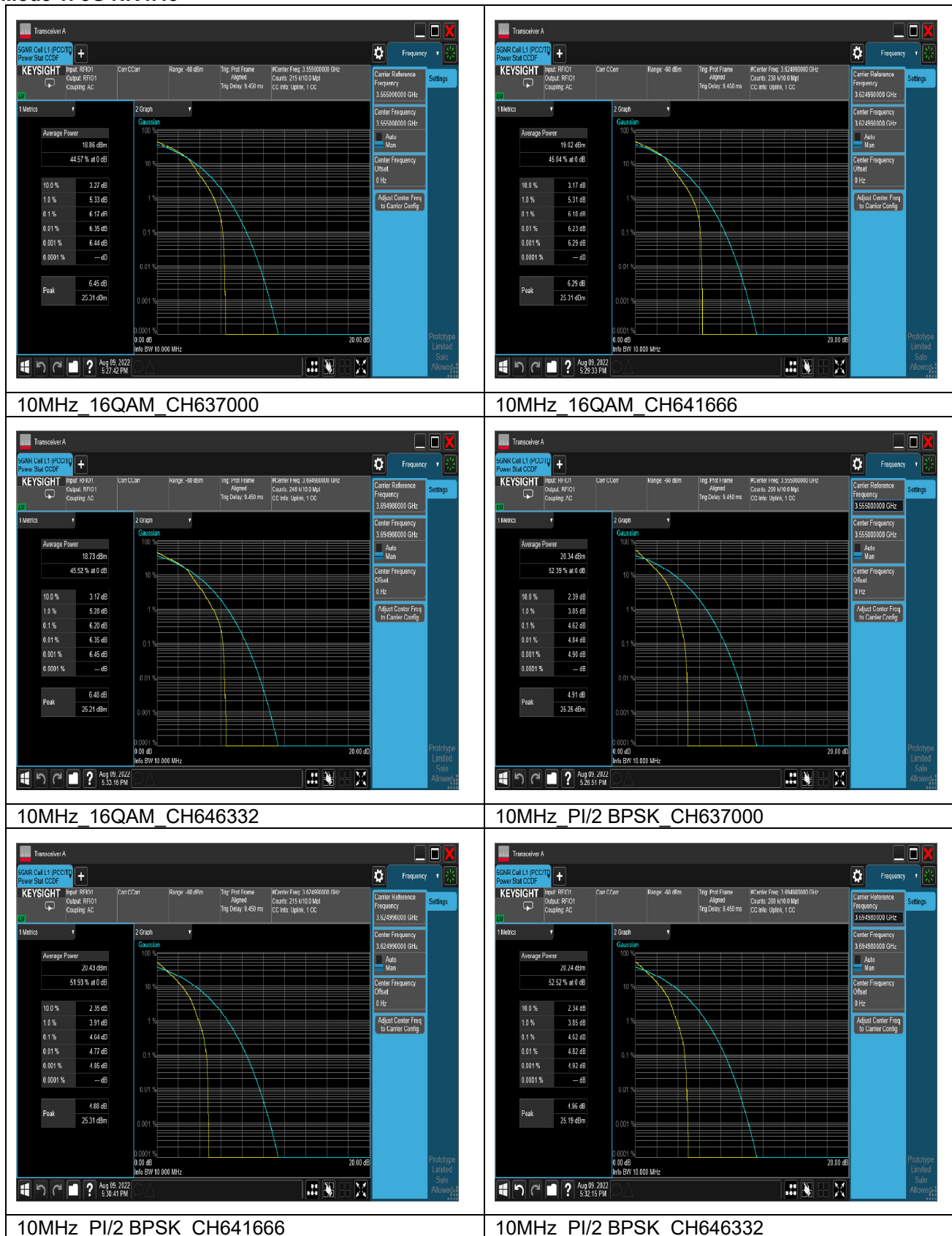
- Refer to instrument's analyzer instruction manual for details on how to use the power statistics/CCDF function;
- Set resolution/measurement bandwidth $\geq$ signal's occupied bandwidth;
- Set the number of counts to a value that stabilizes the measured CCDF curve;
- Set the measurement interval as follows:
 - for continuous transmissions, set to 1 ms,
 - for burst transmissions, employ an external trigger that is synchronized with the EUT burst timing sequence, or use the internal burst trigger with a trigger level that allows the burst to stabilize and set the measurement interval to a time that is less than or equal to the burst duration.
- Record the maximum PAPR level associated with a probability of 0.1%.

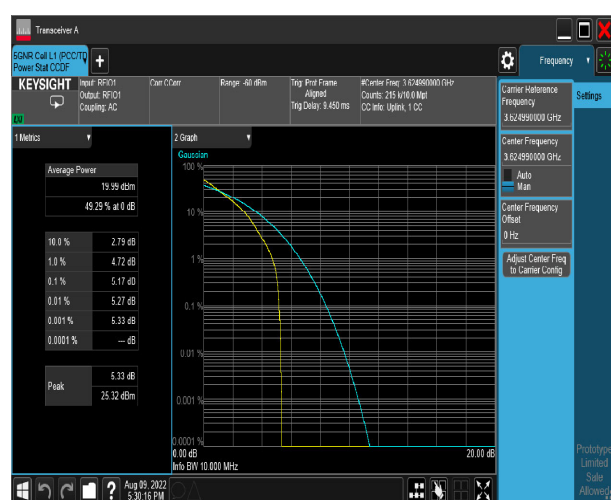
8.4. Test Specification

According to Part 96.41

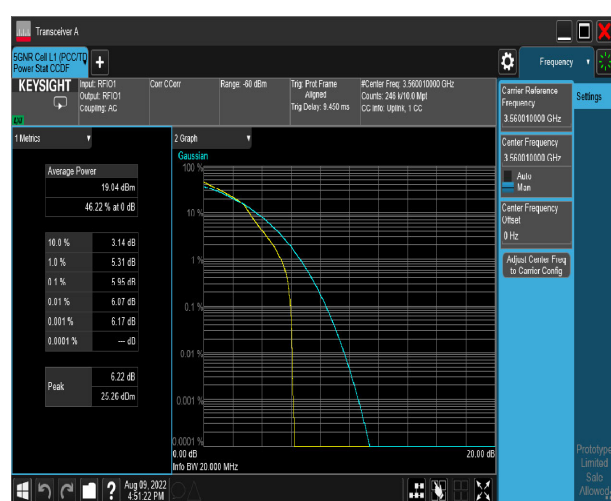
8.5. Test Result of Peak to Average Ratio

Mode 1: 5G NR n48

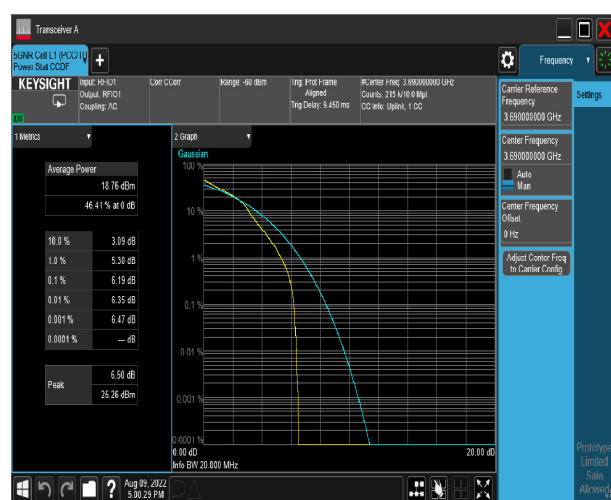




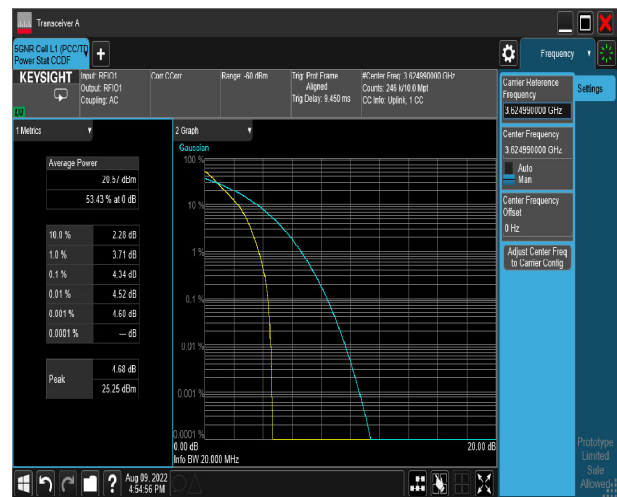
10MHz QPSK CH641666



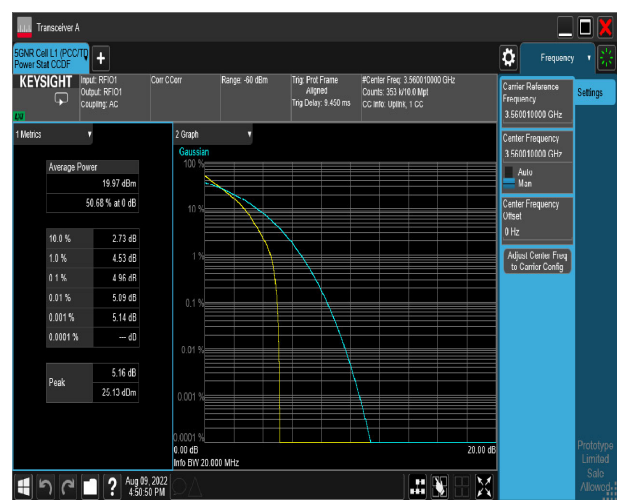
20MHz 16QAM CH637334



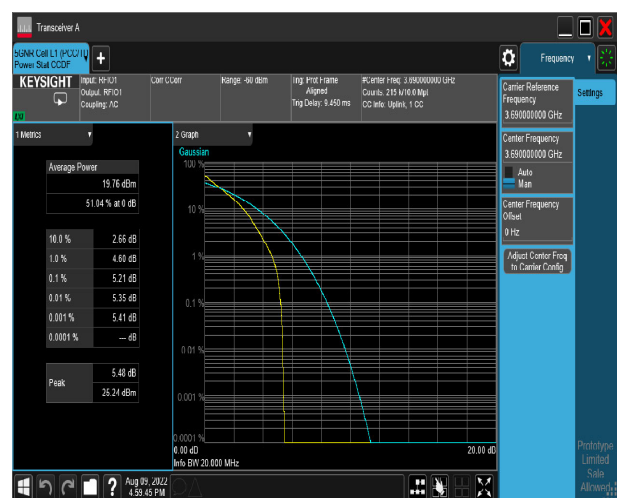
20MHz 16QAM CH646000



20MHz_PI/2 BPSK_CH641666



20MHz QPSK CH637334



20MHz_QPSK_CH646000

