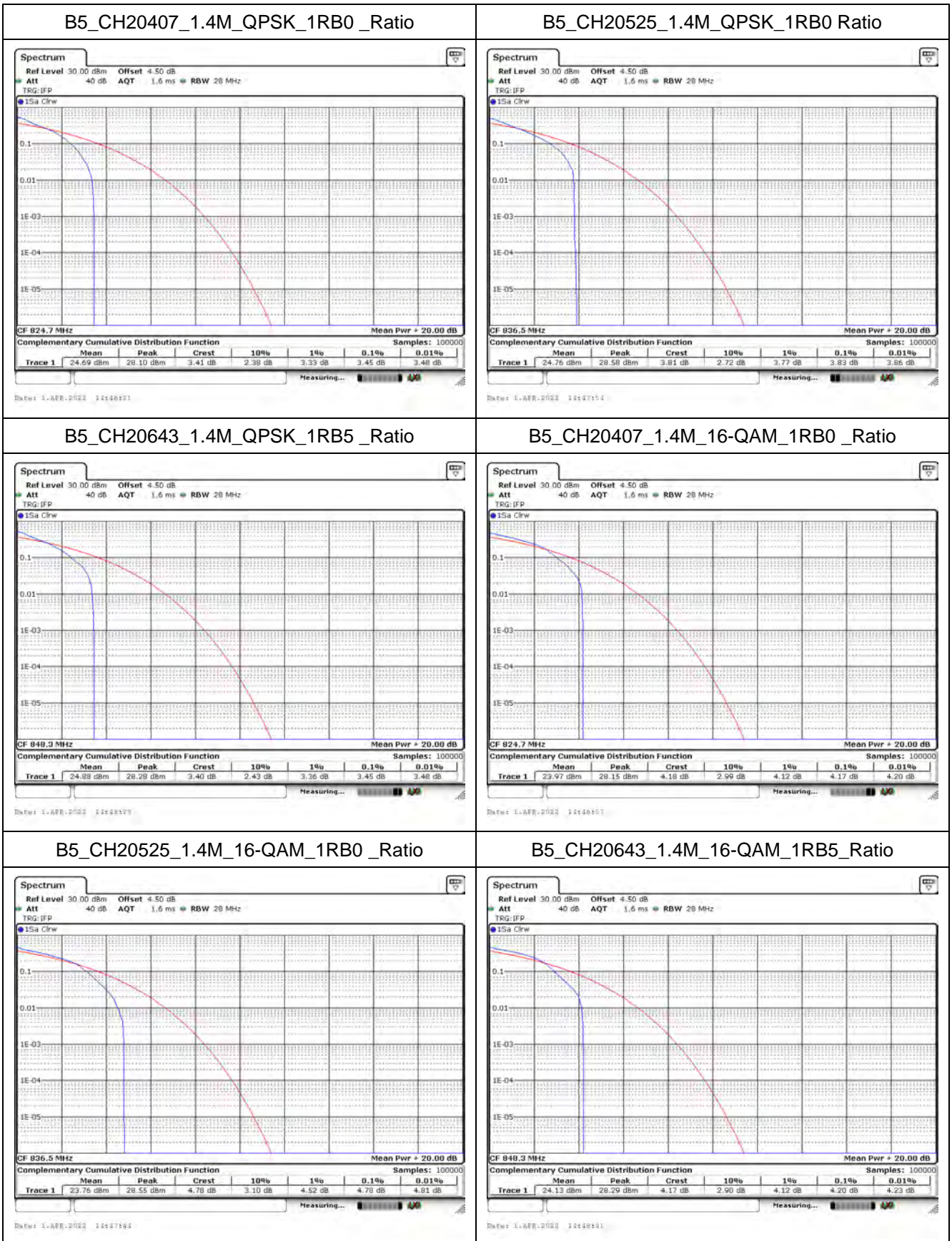
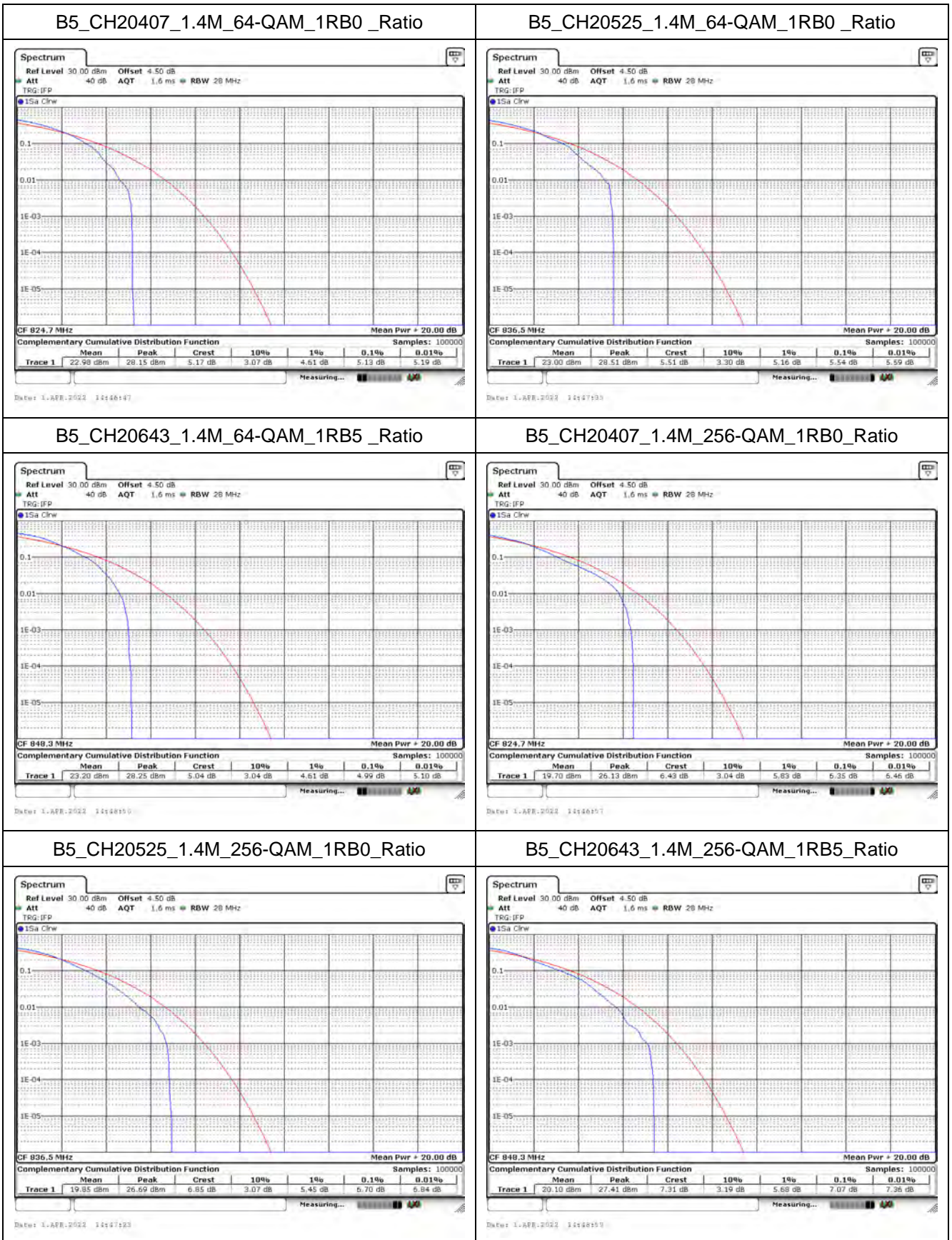




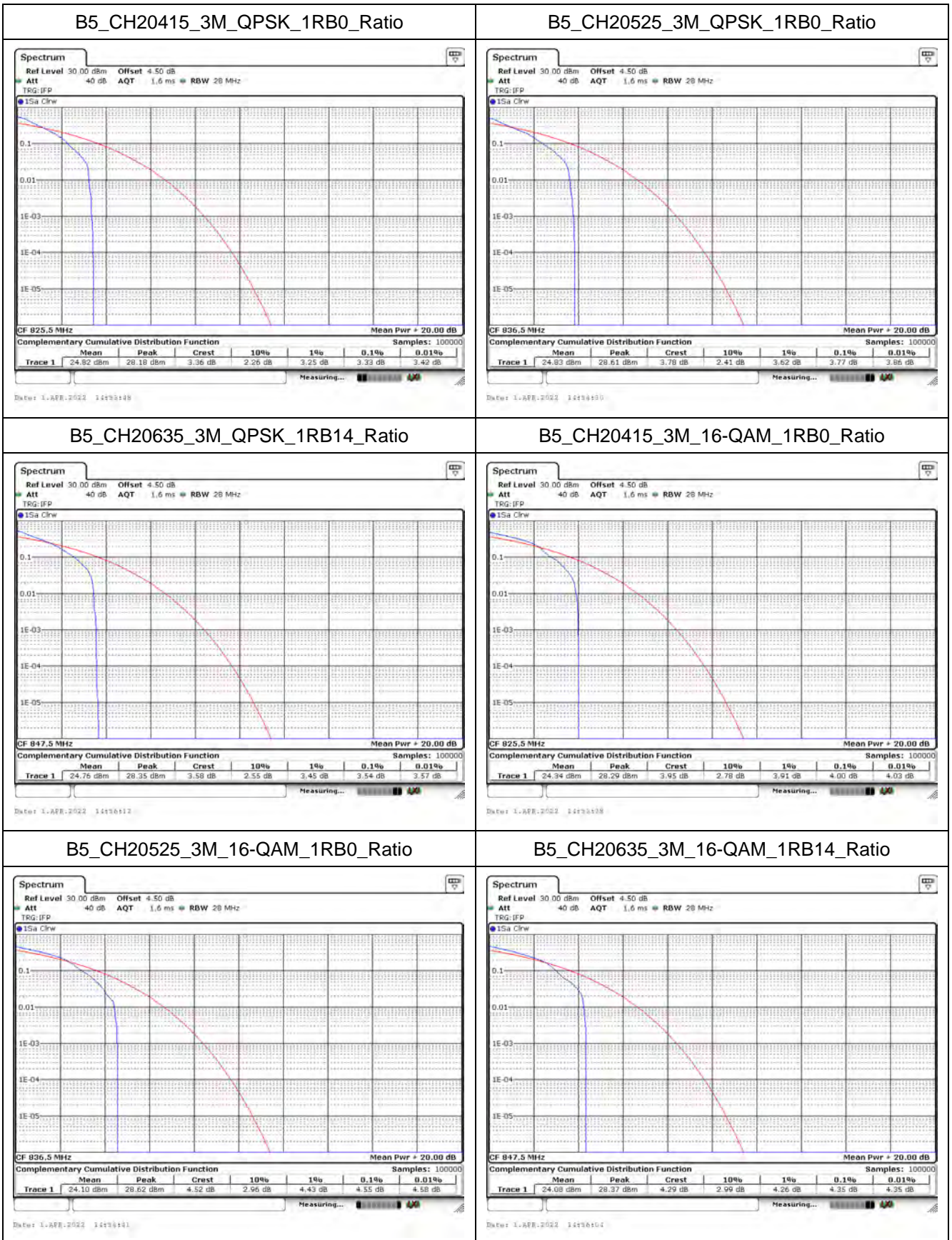
**Mode 2: LTE Band 5**



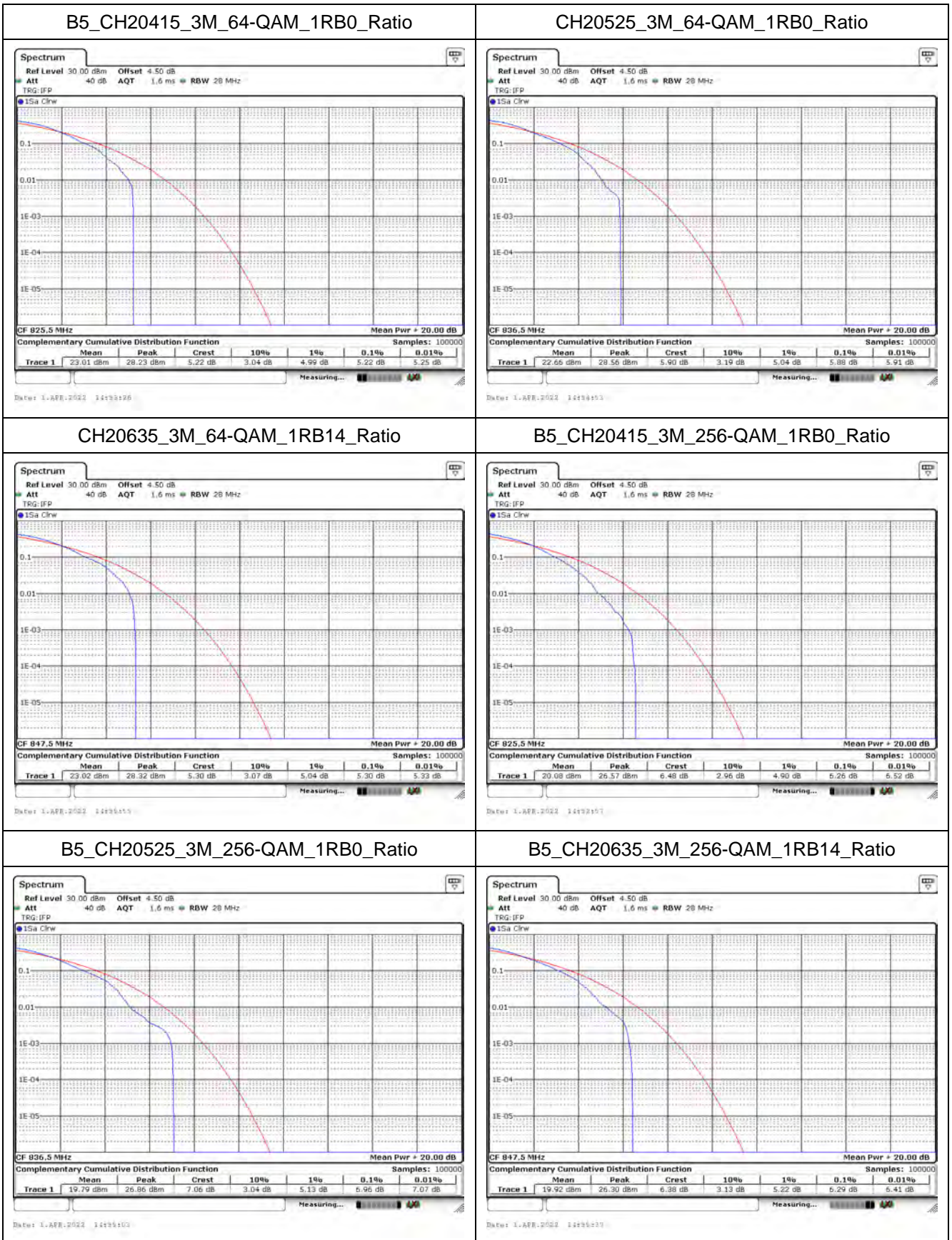




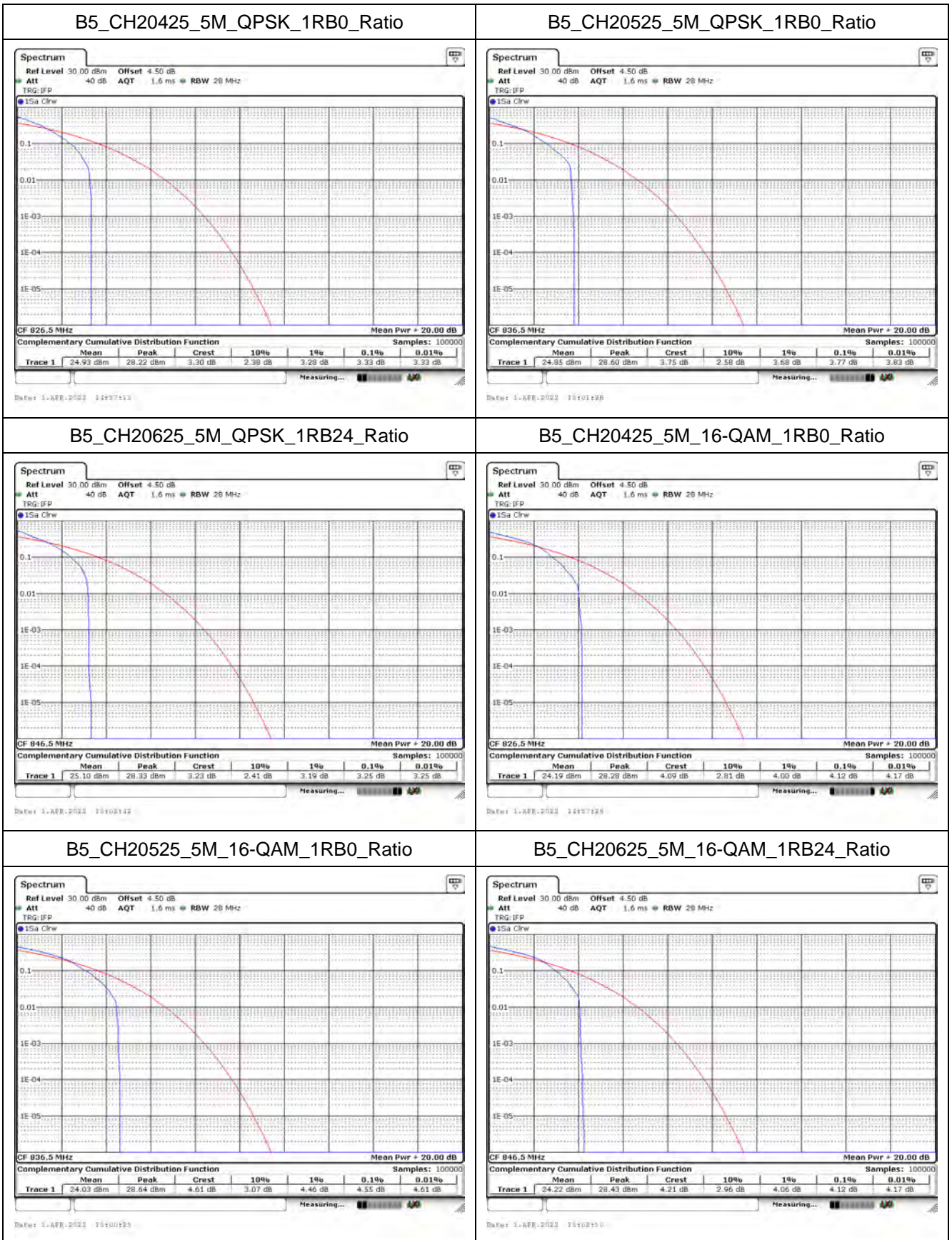




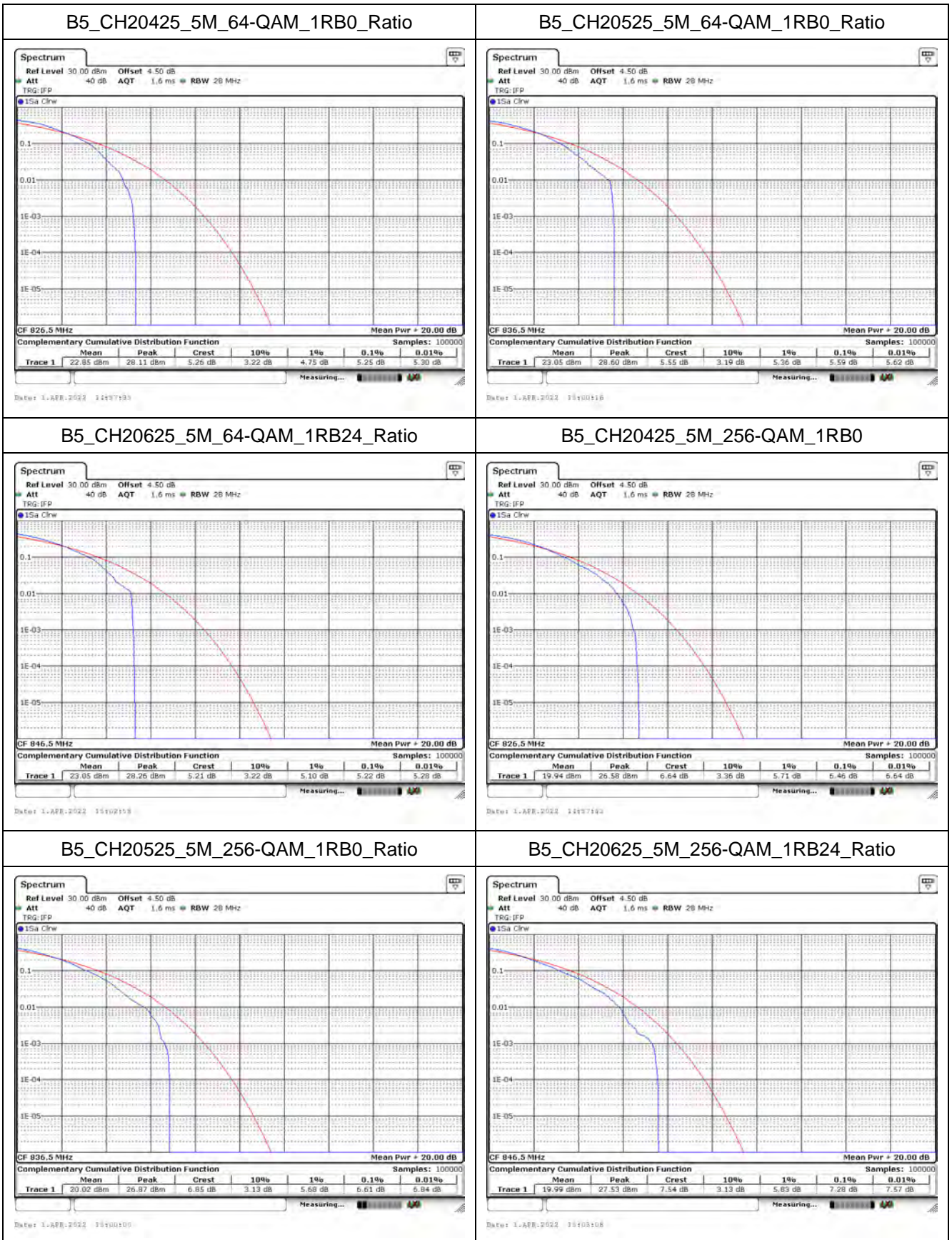




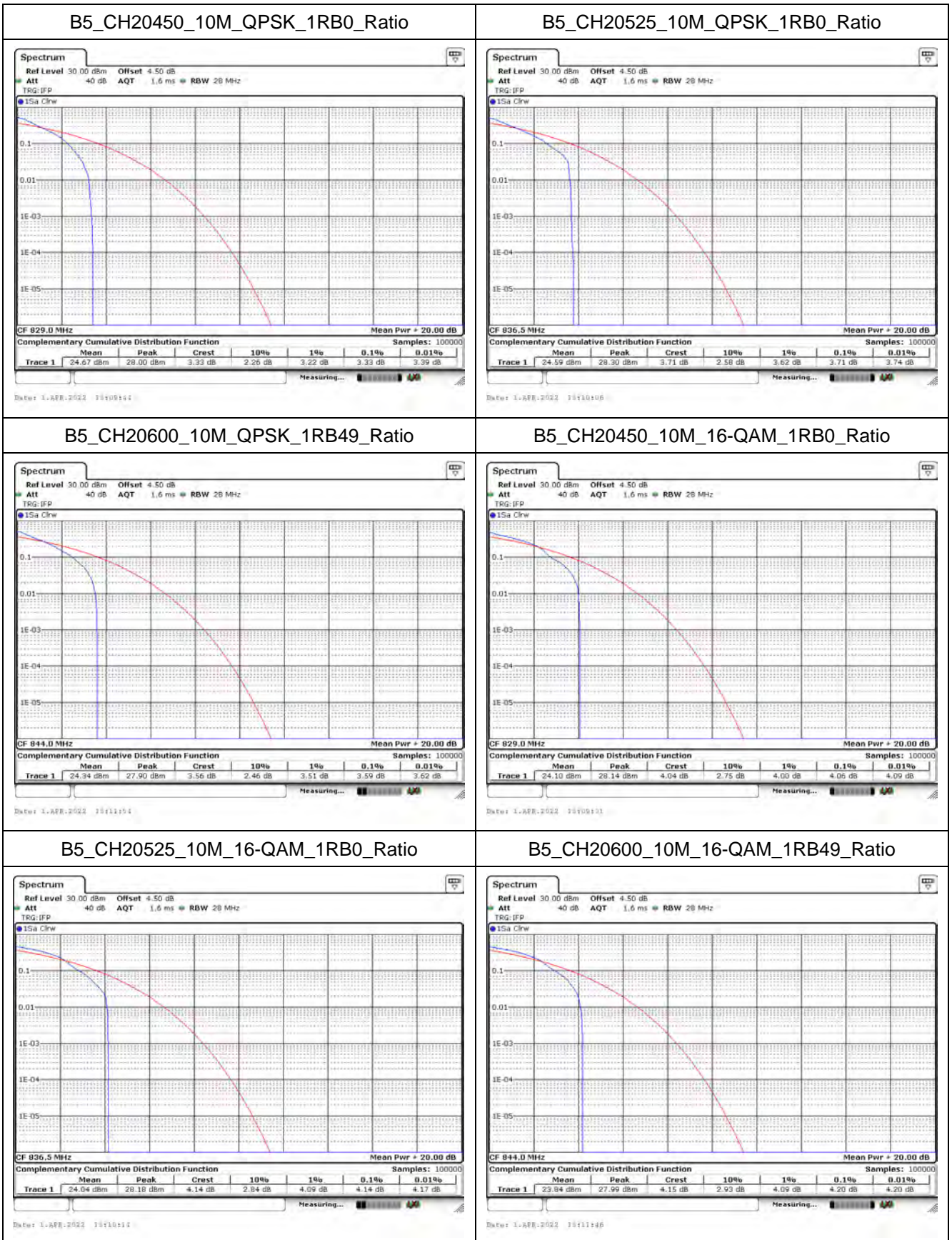




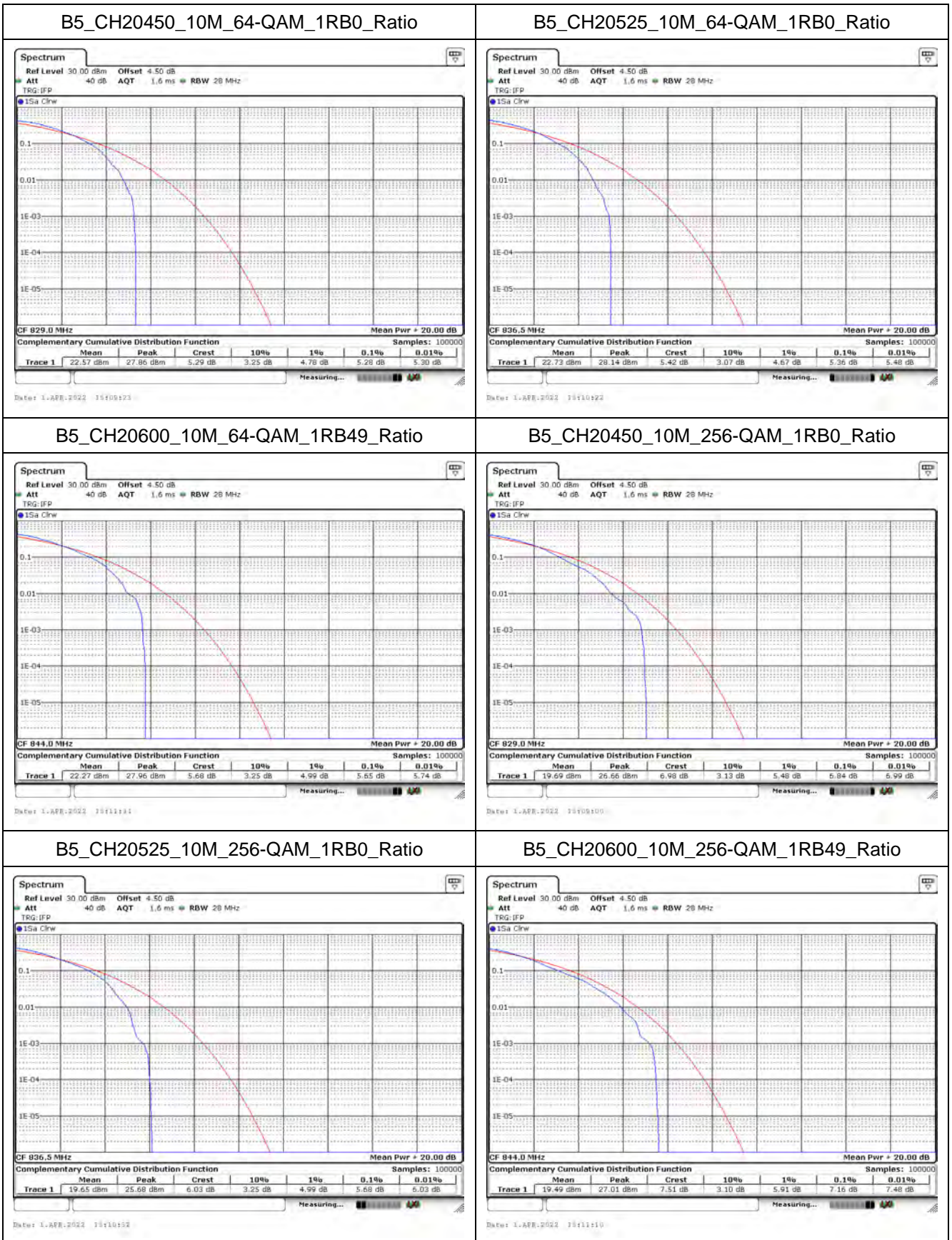






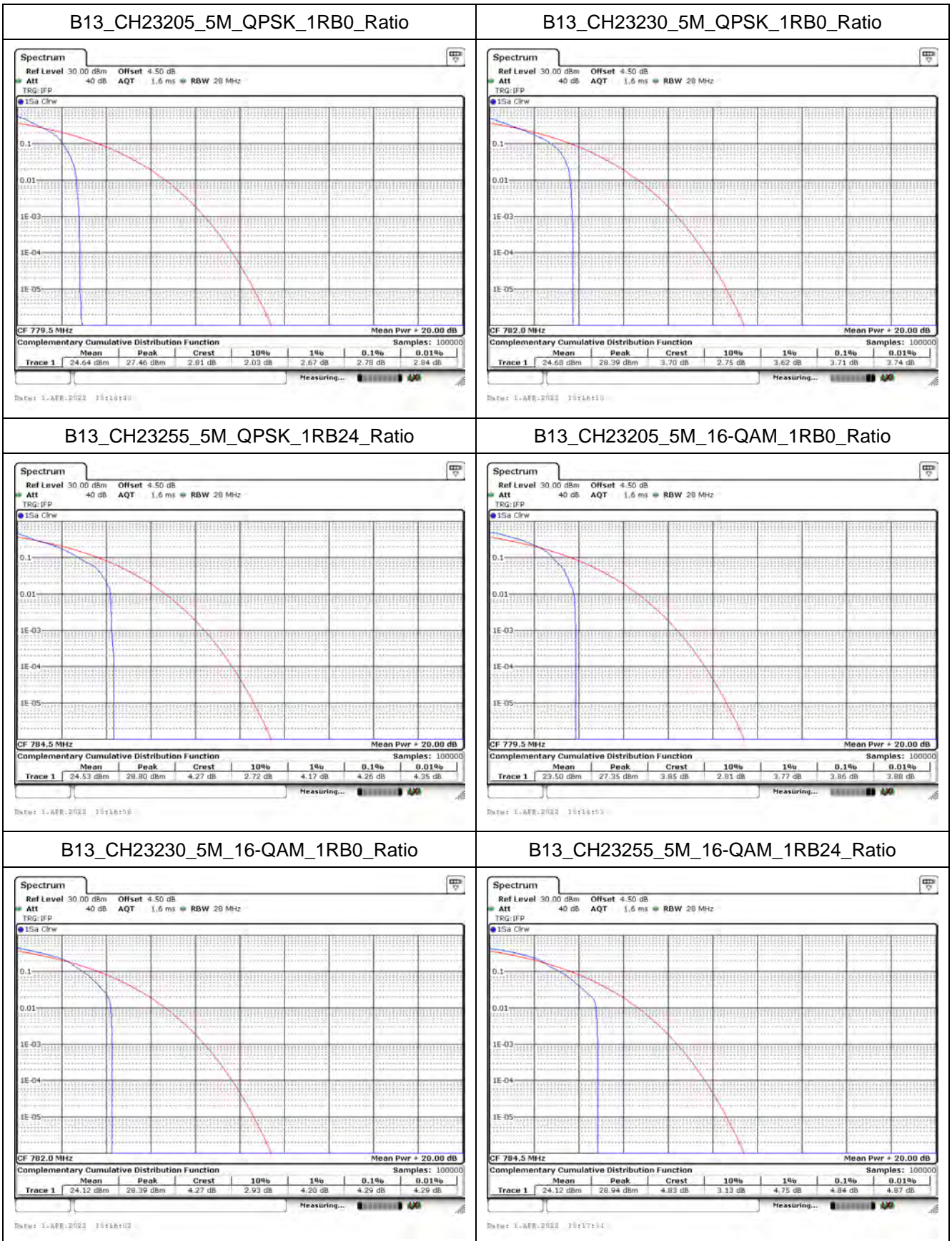




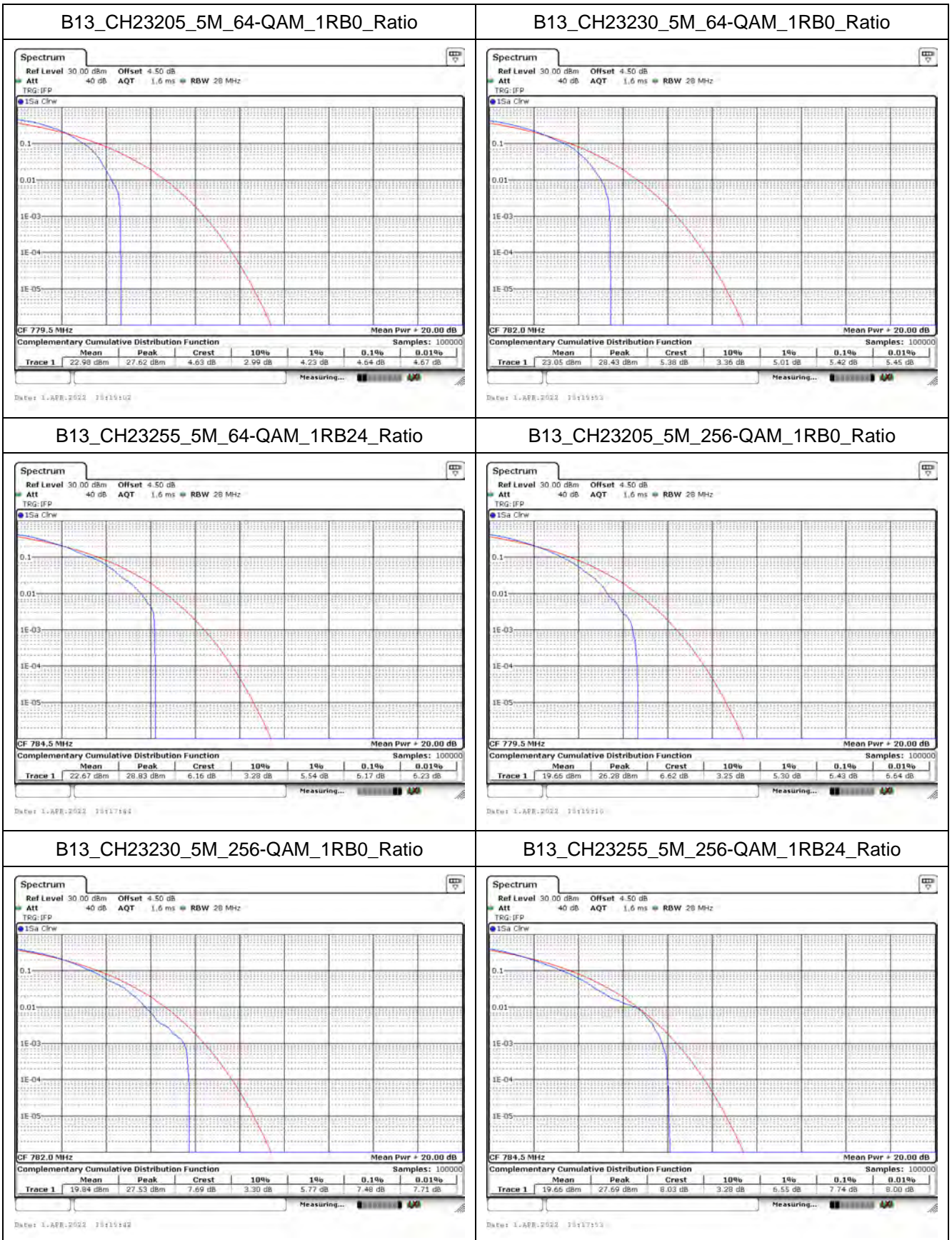




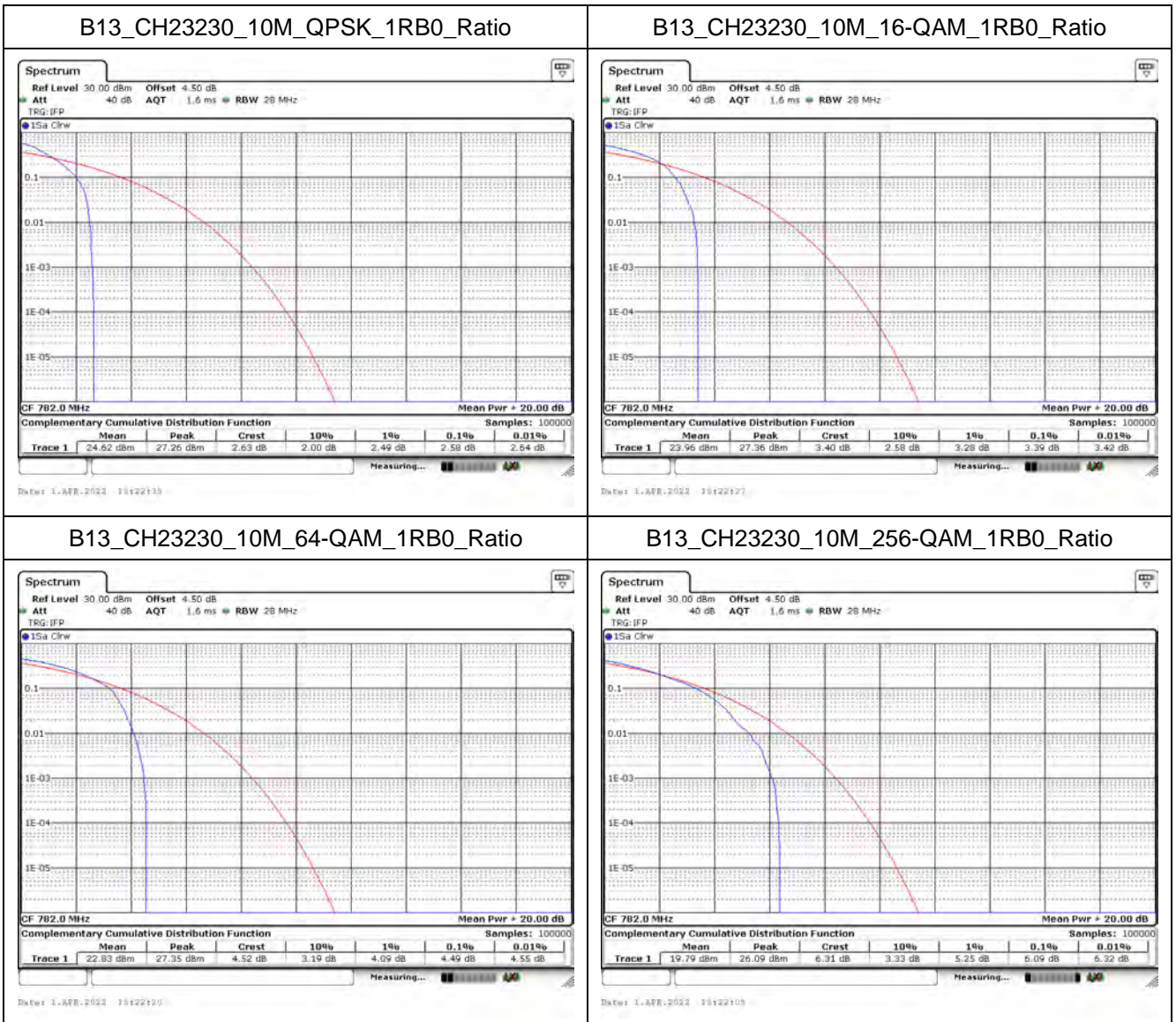
**Mode 3: LTE Band 13**





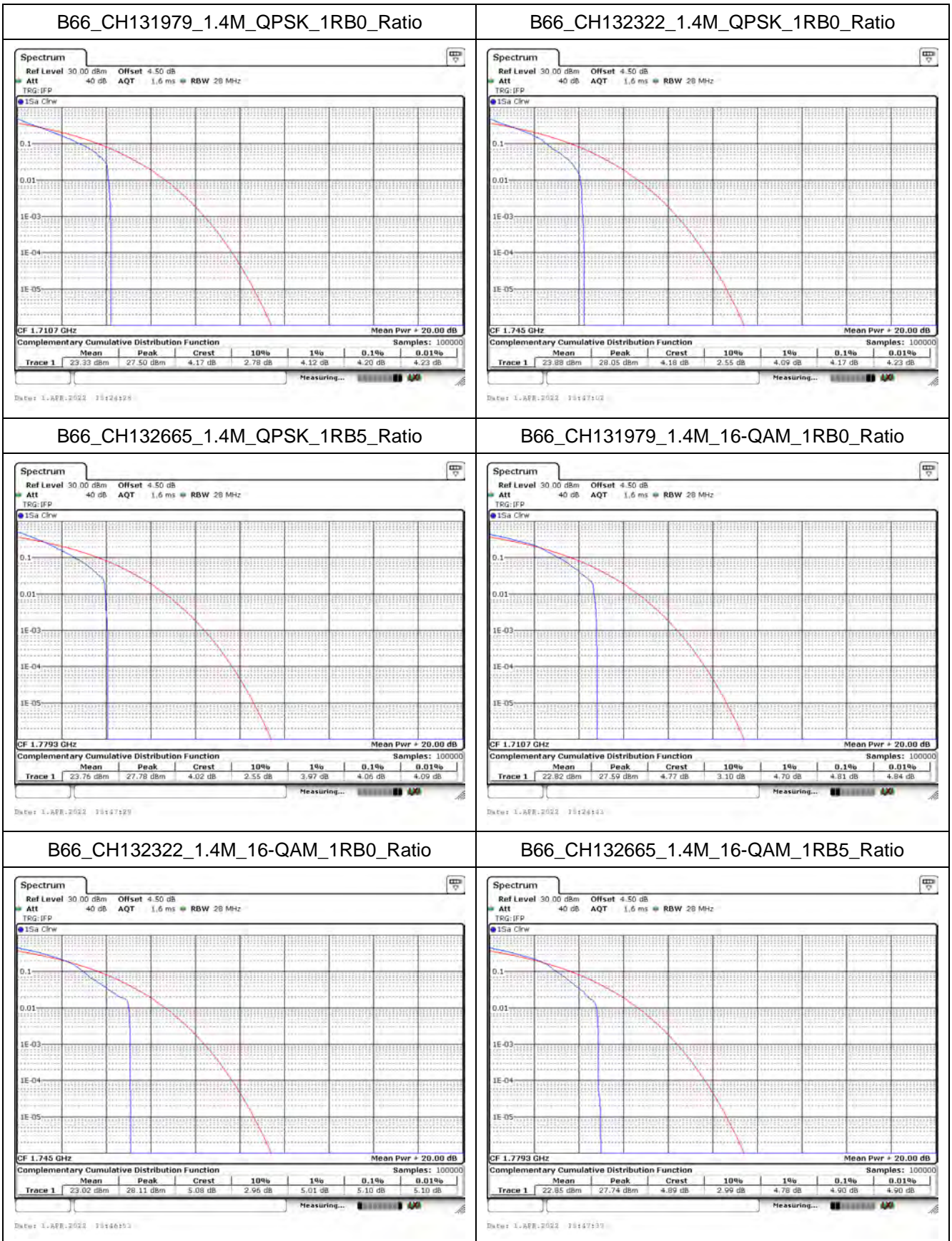




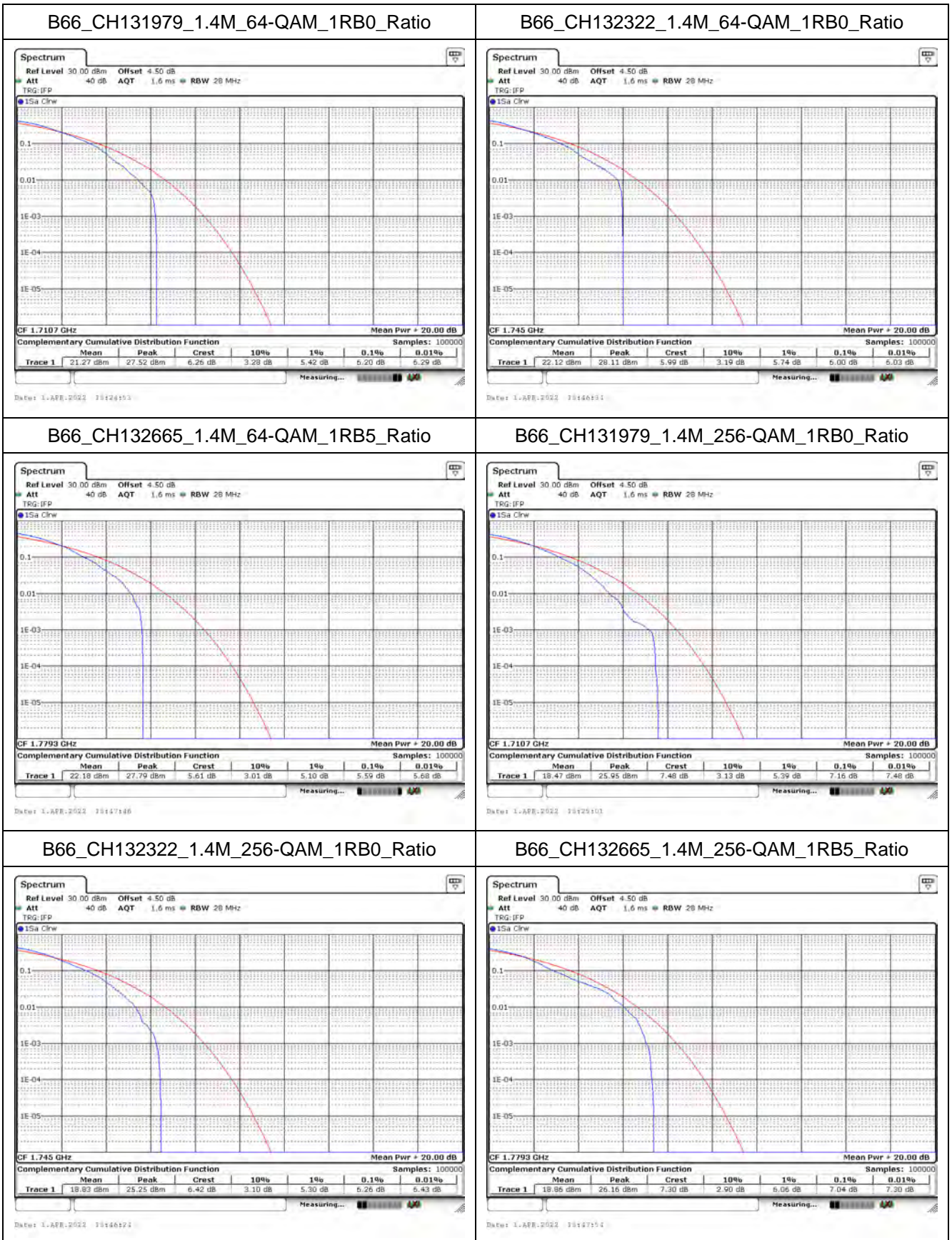




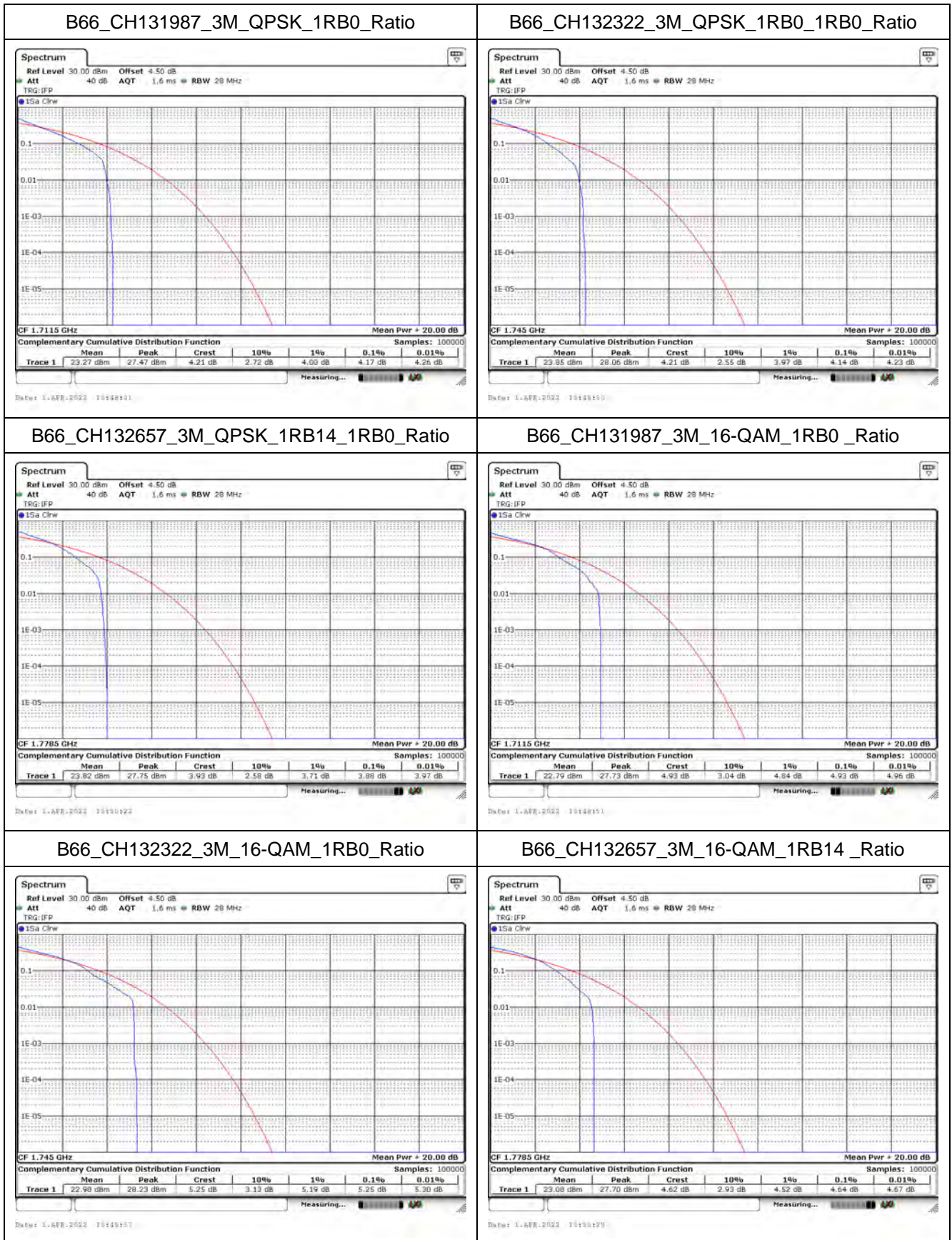
**Mode 4: LTE Band 66**



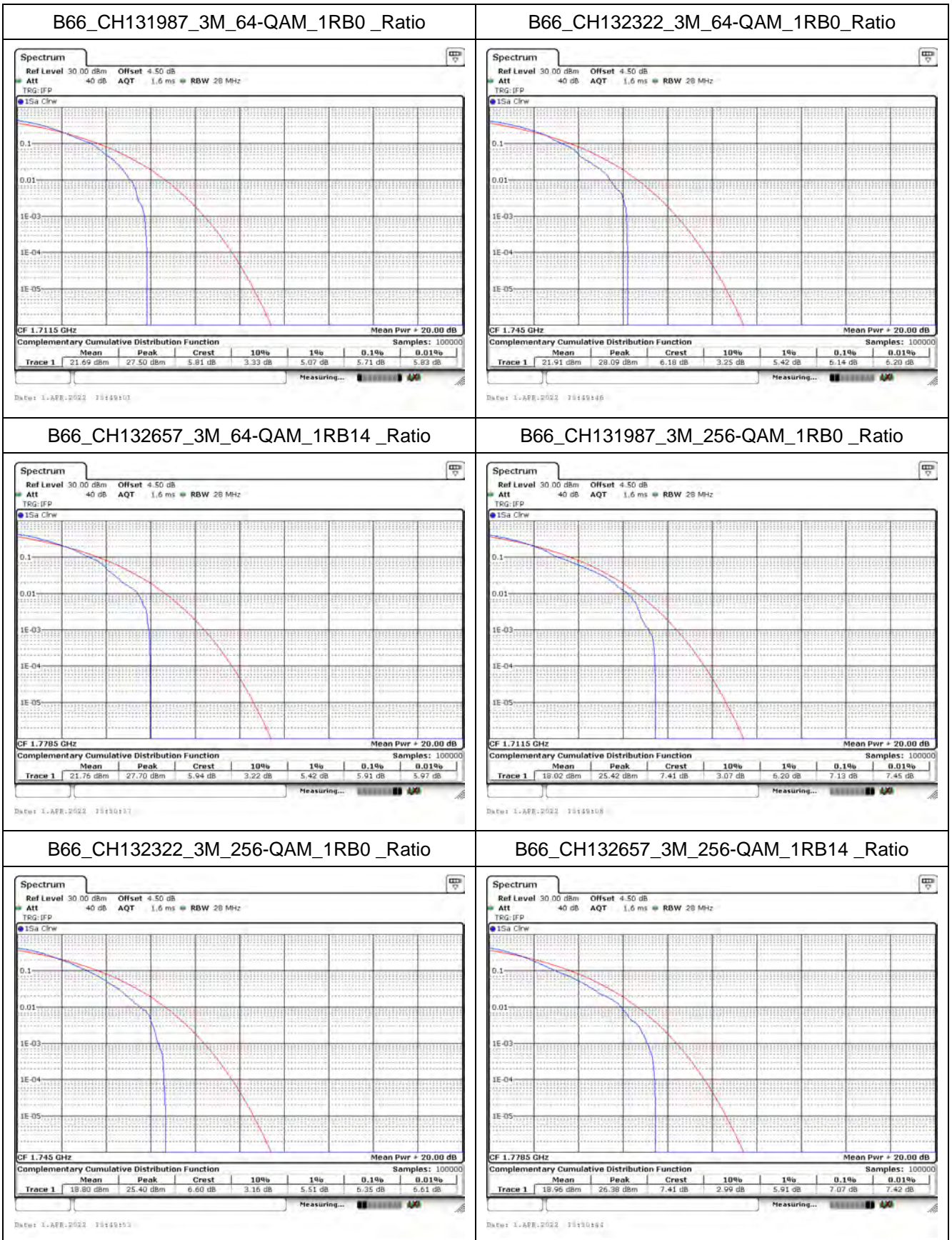




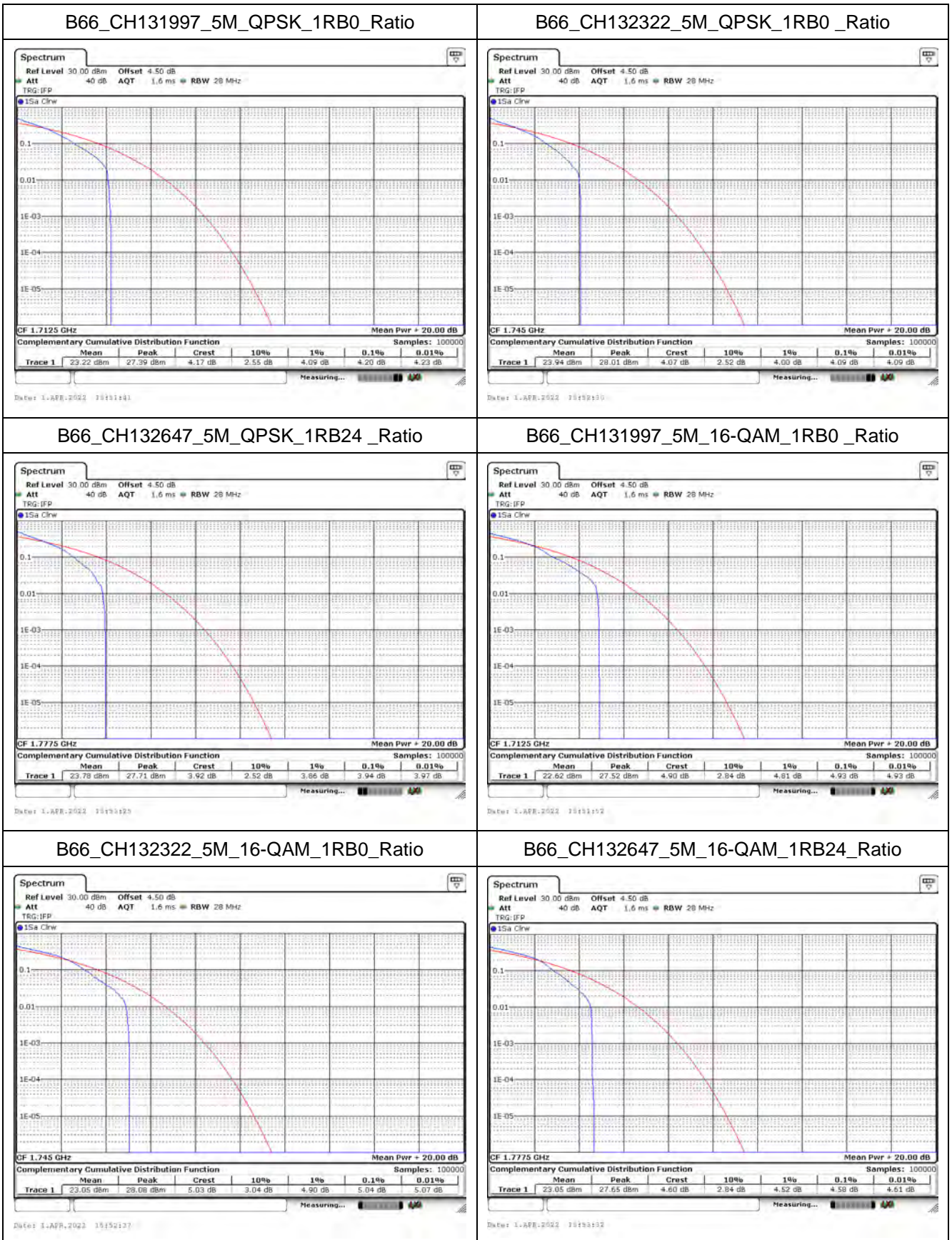




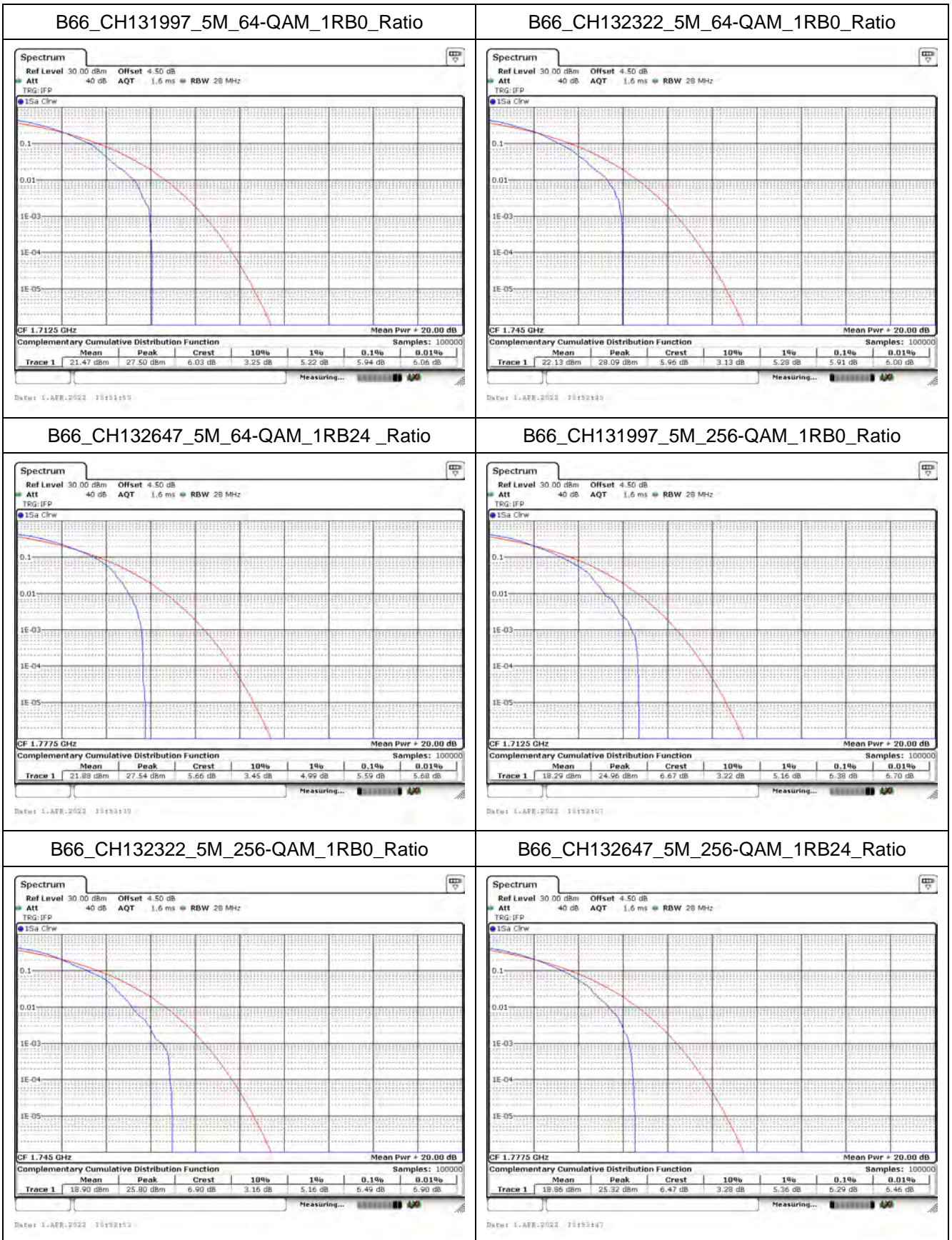




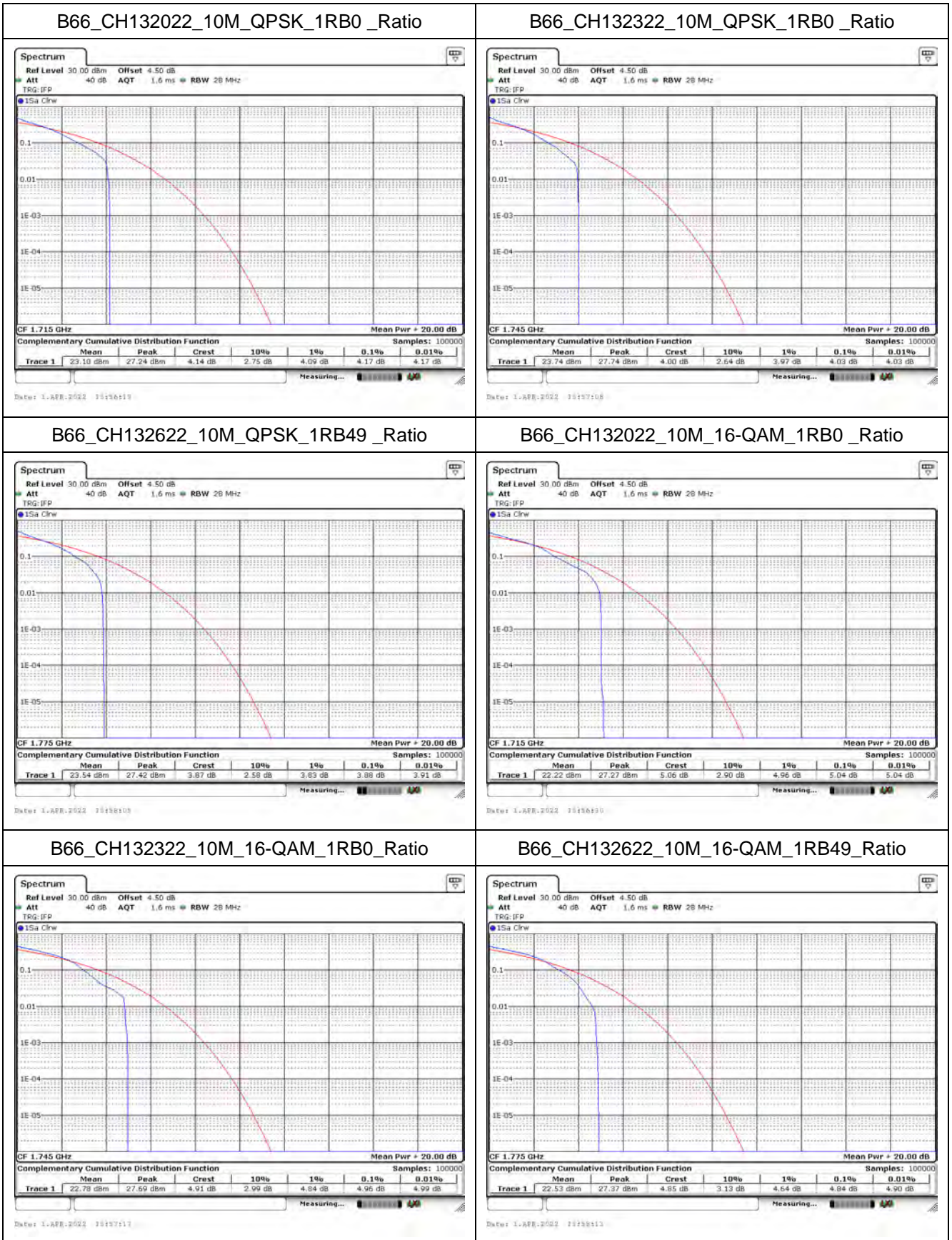




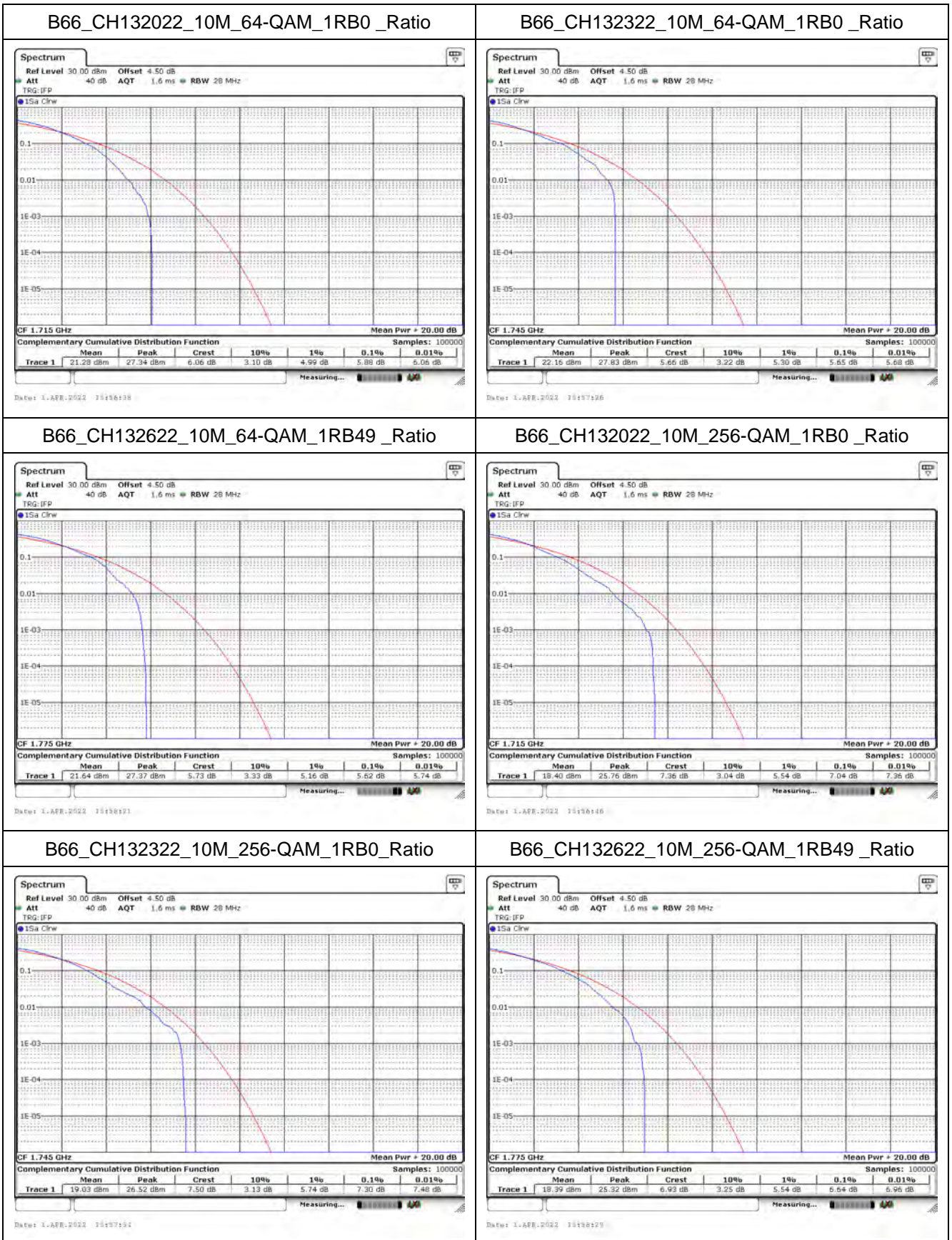




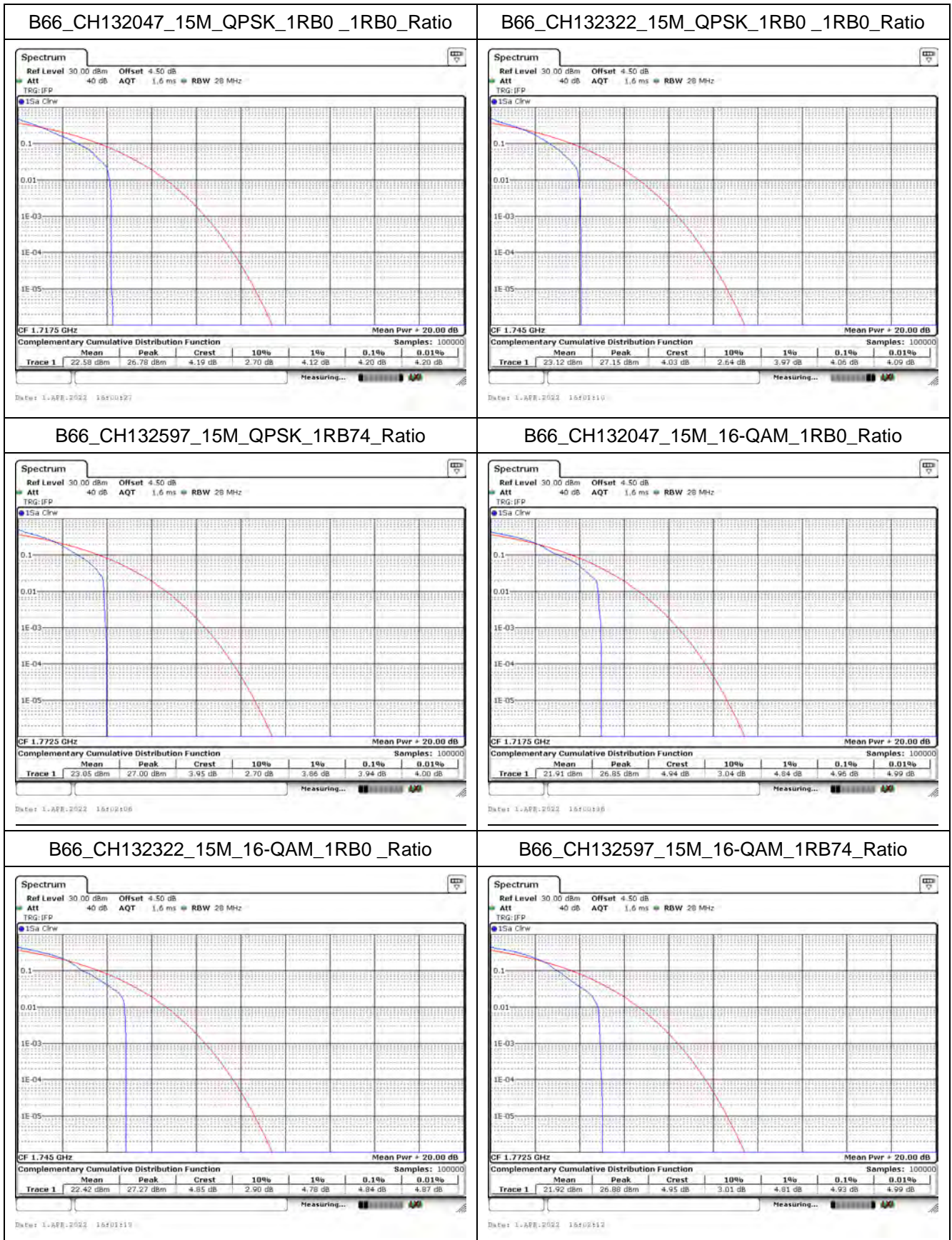




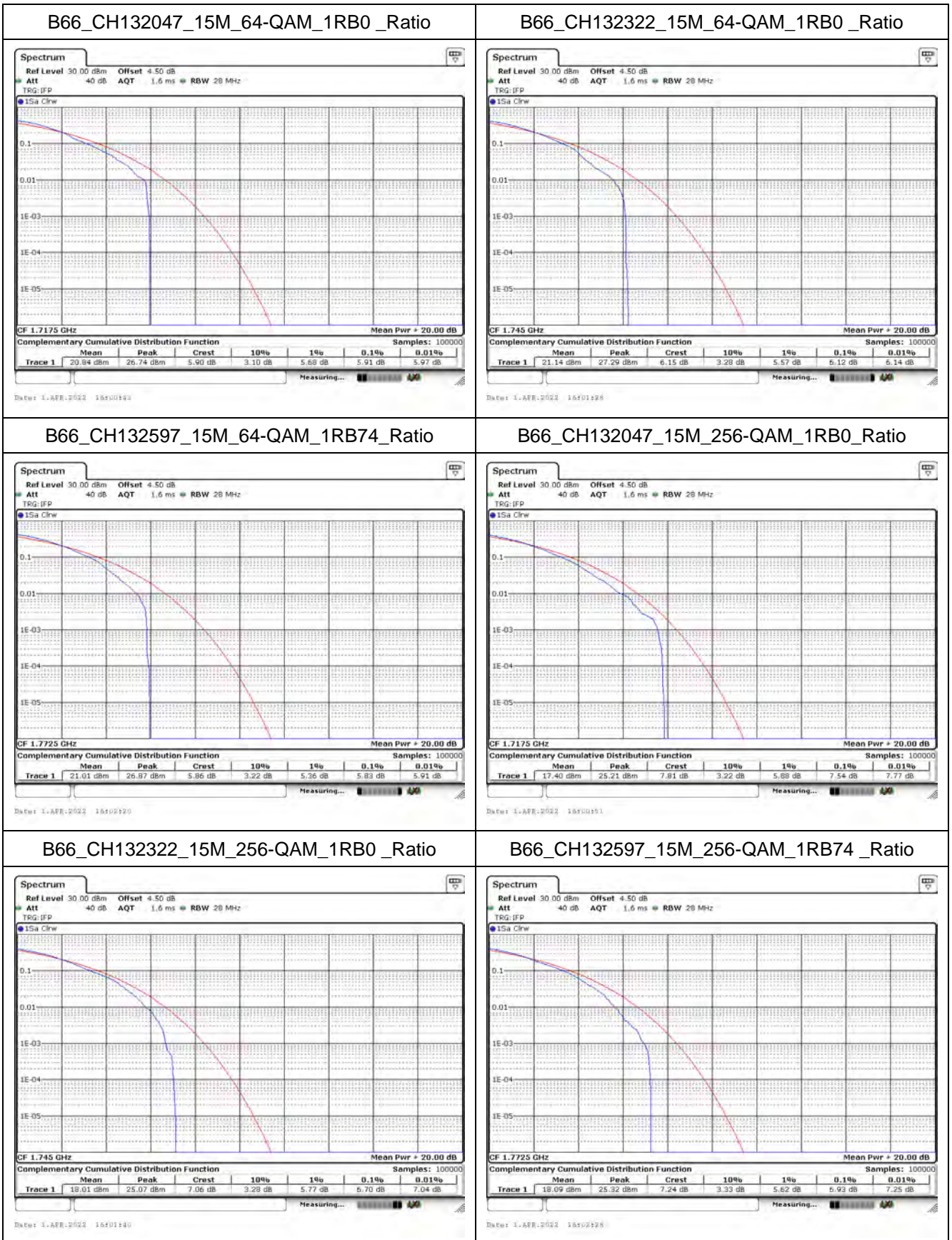




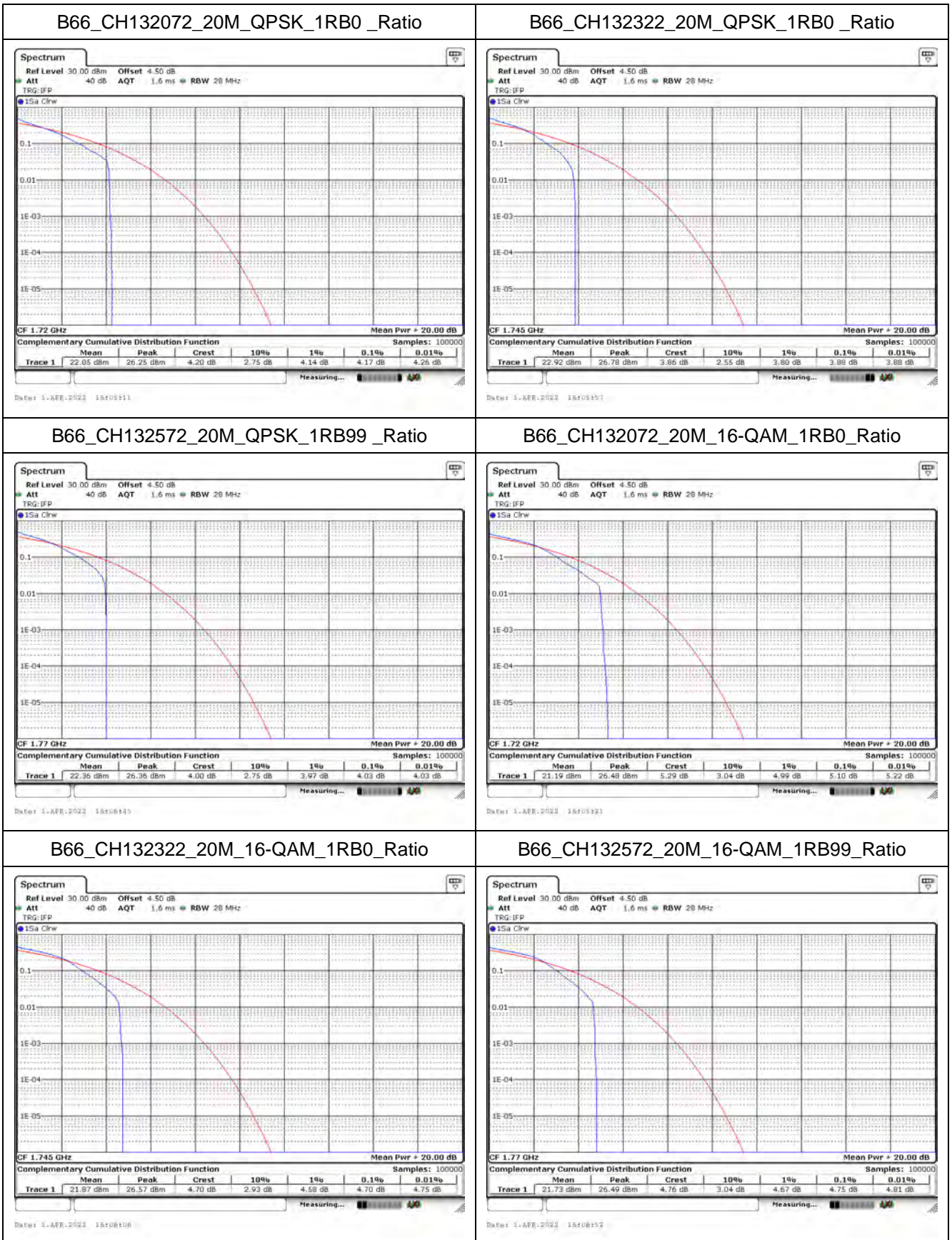




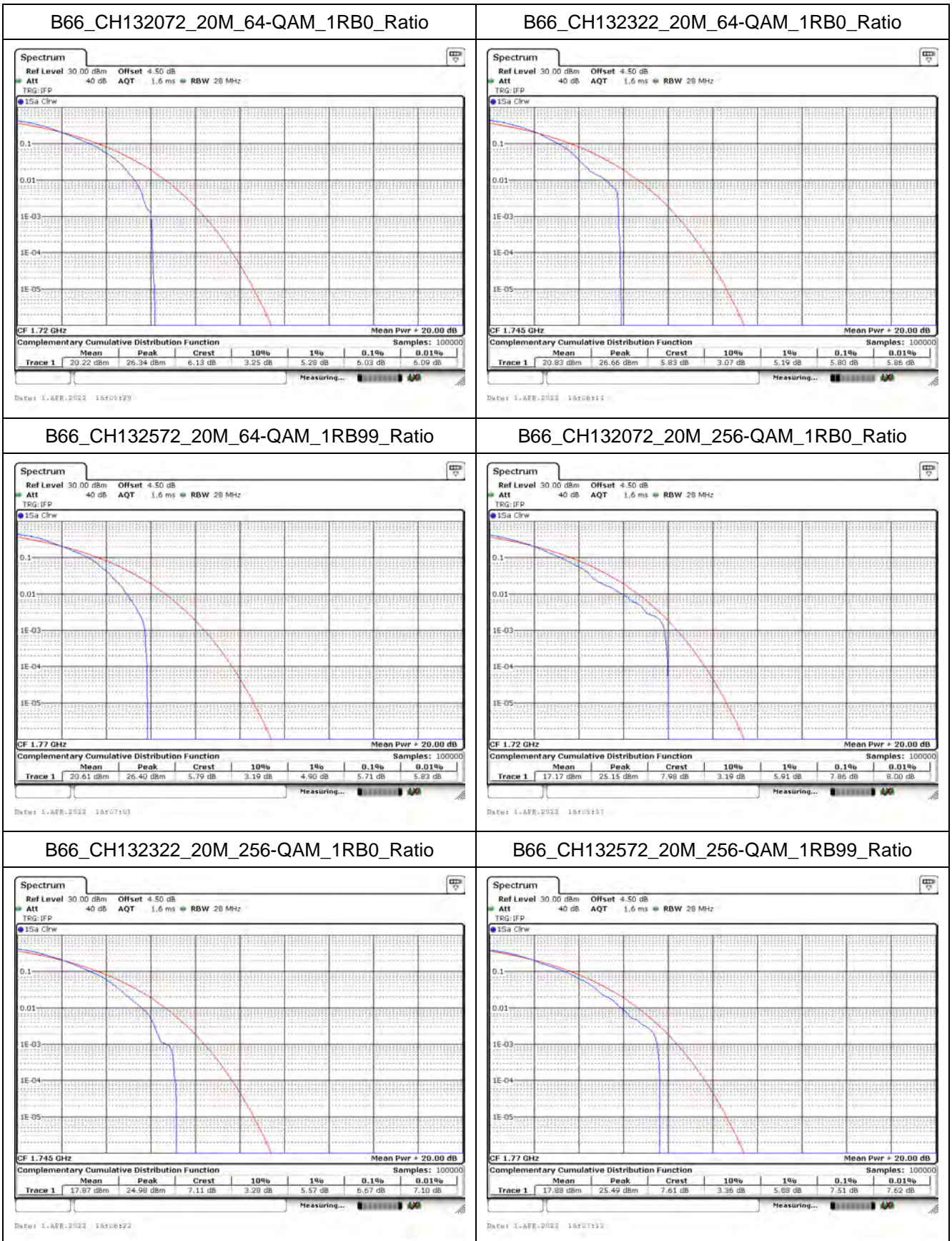










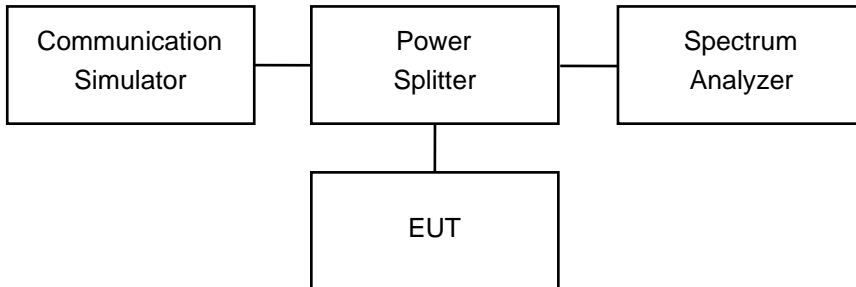




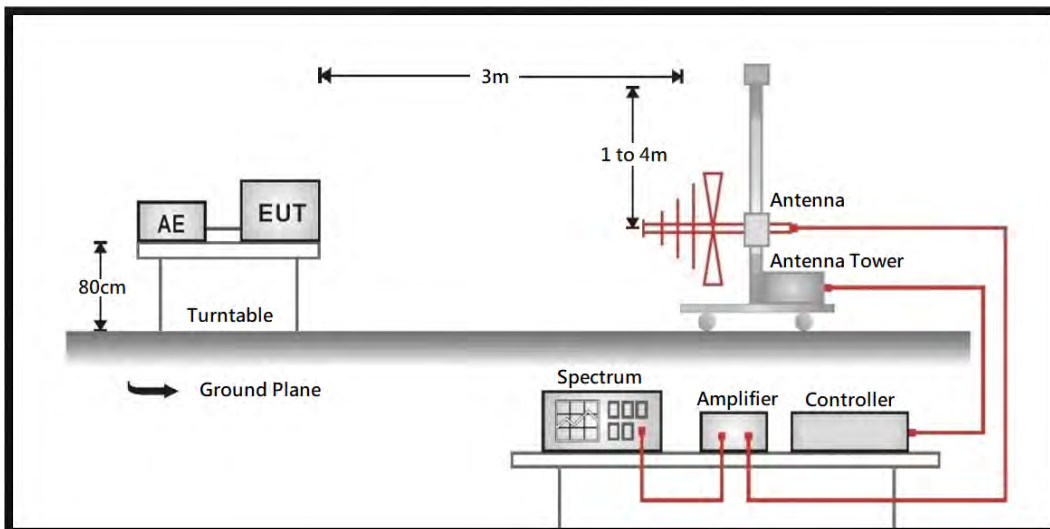
## 6. Spurious Emissions

### 6.1. Test Setup

Conducted Spurious Measurement

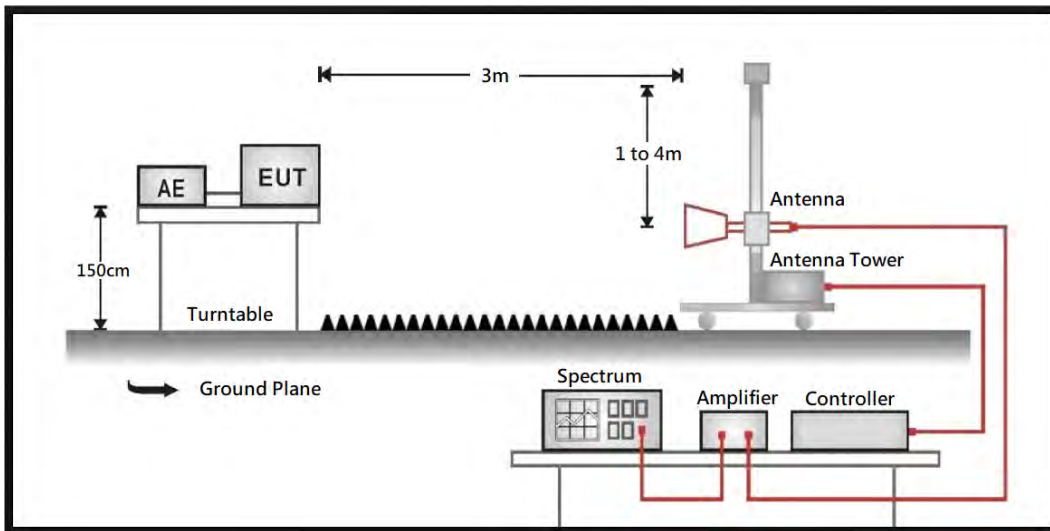


Radiated Spurious Measurement: below 1GHz





Radiated Spurious Measurement: above 1GHz





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## 6.2. Test Procedure

### **Conducted Spurious Measurement:**

The EUT makes a call to the communication simulator. The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency. The path loss was compensated to the results for each measurement. The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10<sup>th</sup> harmonic.

### **Radiated Spurious Measurement:**

The EUT and its simulators are placed on a turn table which is 0.8 or 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations. The resolution bandwidth of the spectrum analyzer was set at 1 MHz, sufficient scans were taken to show the out of band Emission if any up to 10th harmonic. Taking the record of maximum spurious emission.

## 6.3. Test Methodology and Reference Procedures

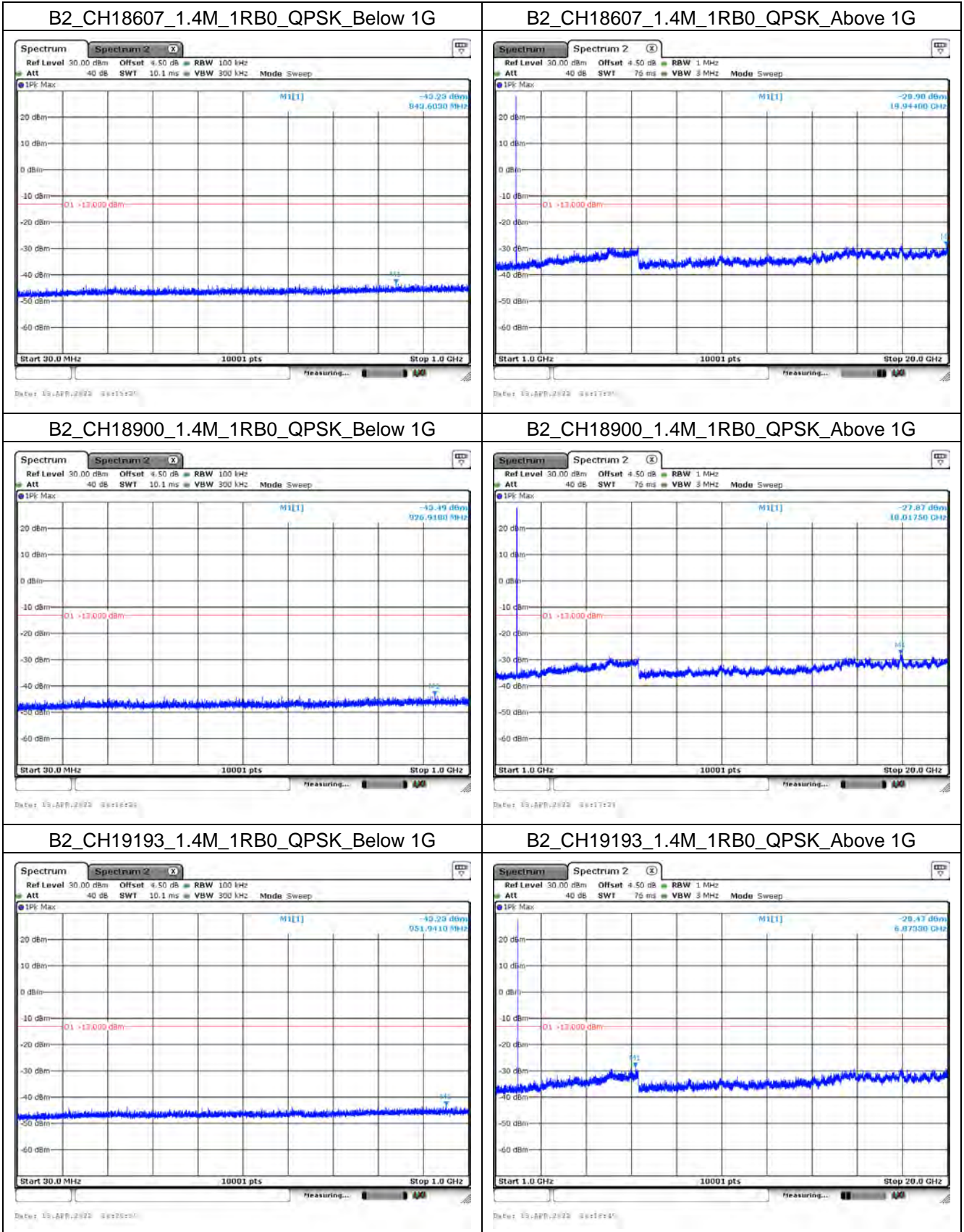
KDB 971168 D01 Power Meas License Digital Systems v03r01

ANSI C63.26-2015

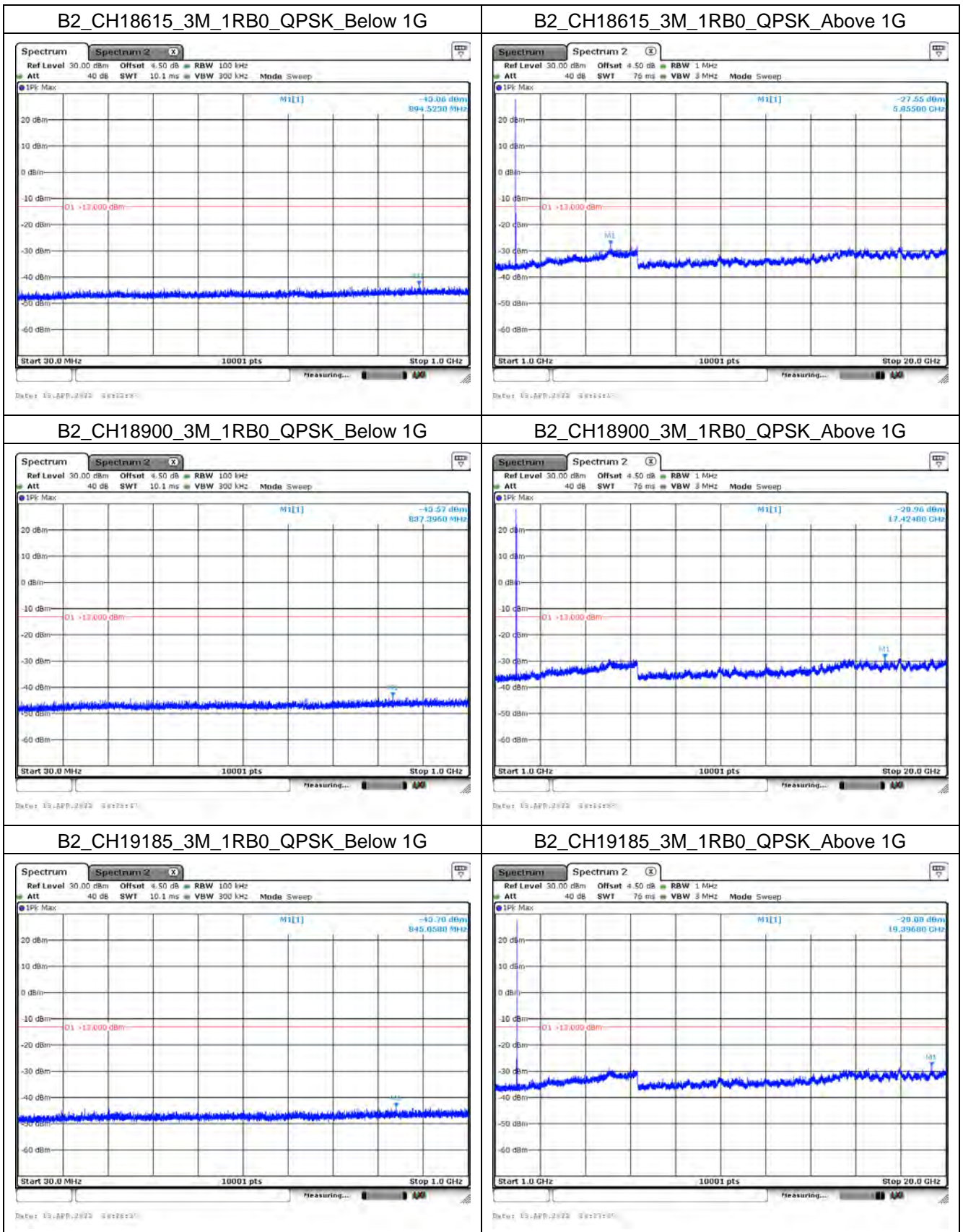


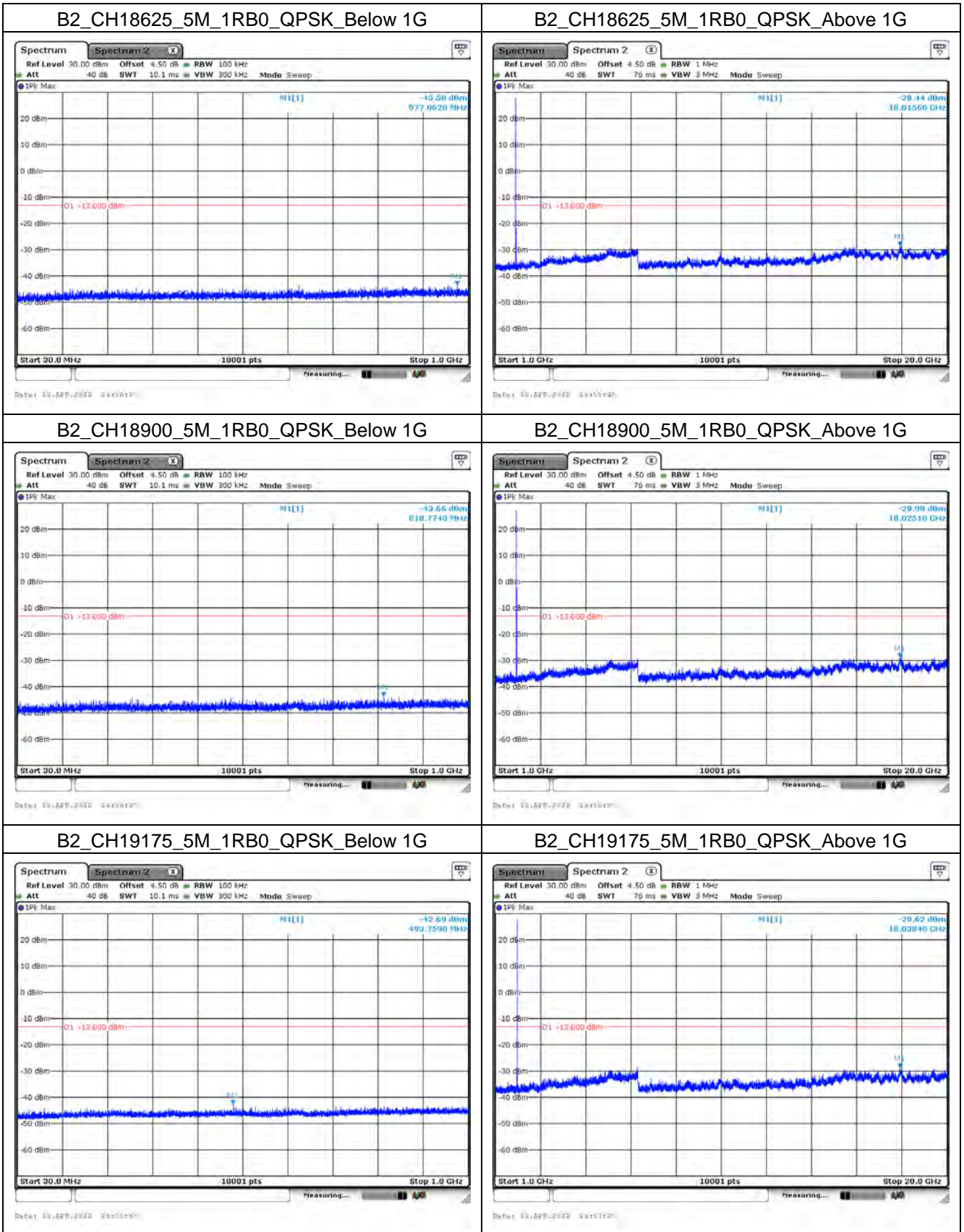
### 6.4. Test Result of Conducted Spurious Emission

#### Mode 1: LTE Band 2

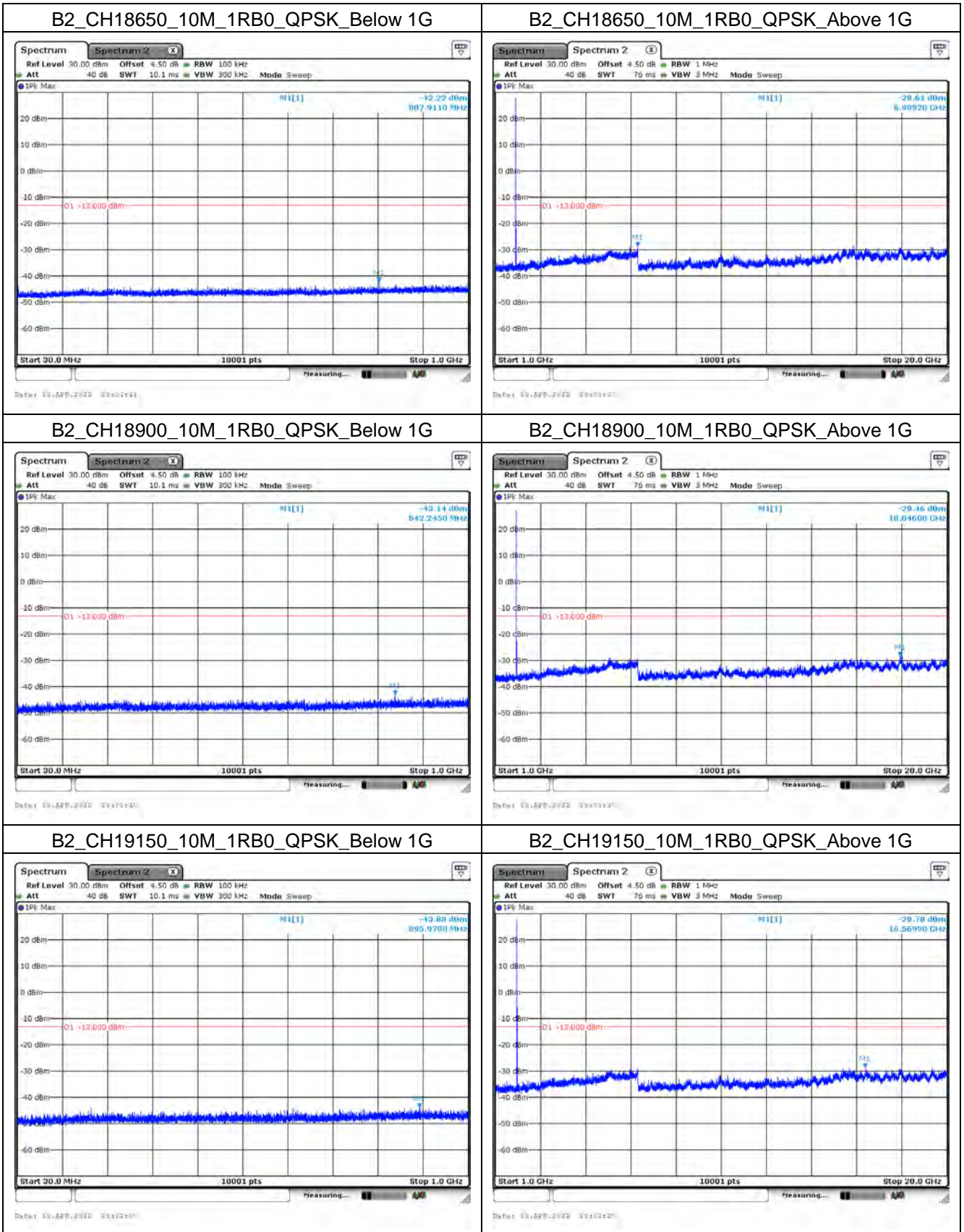


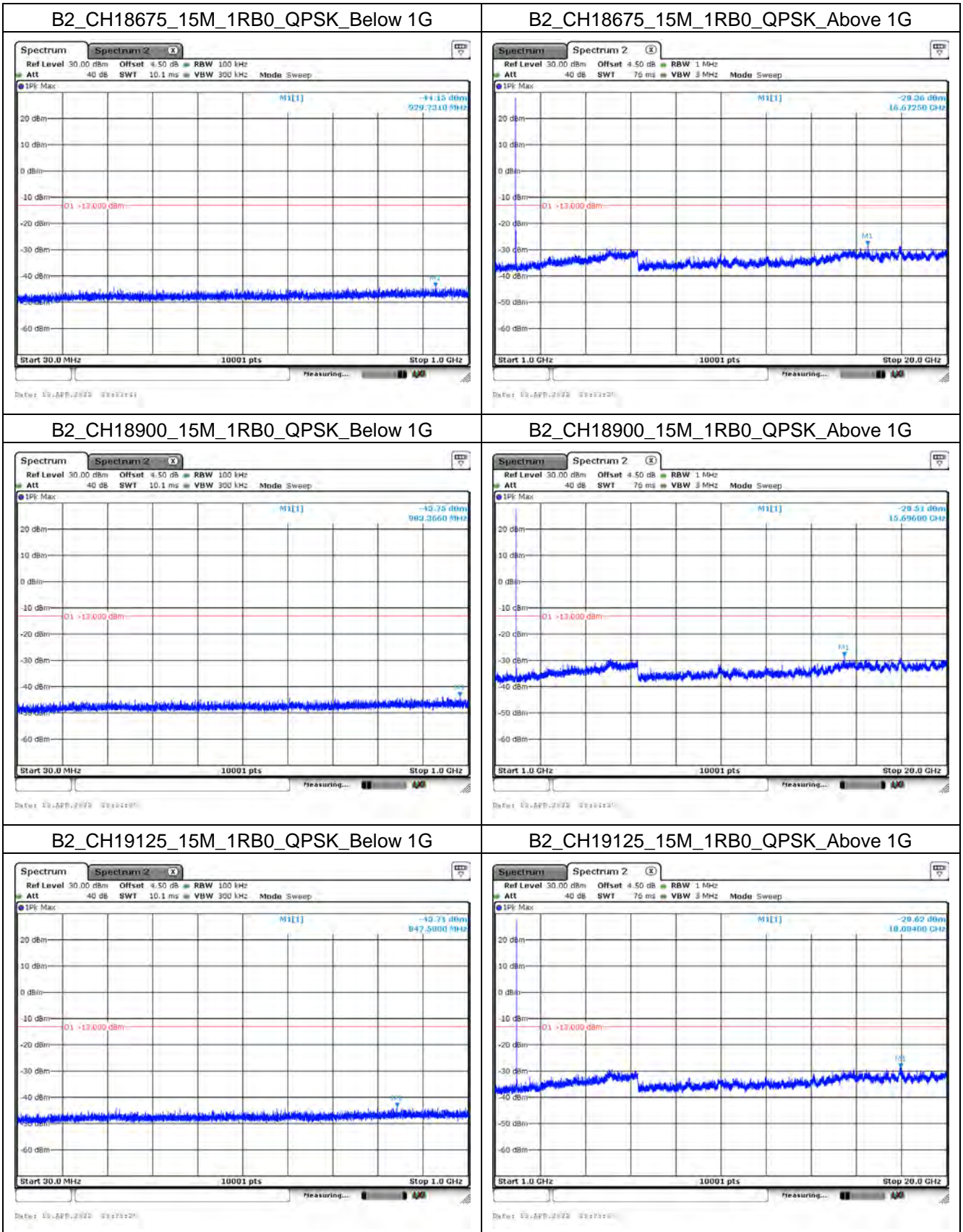




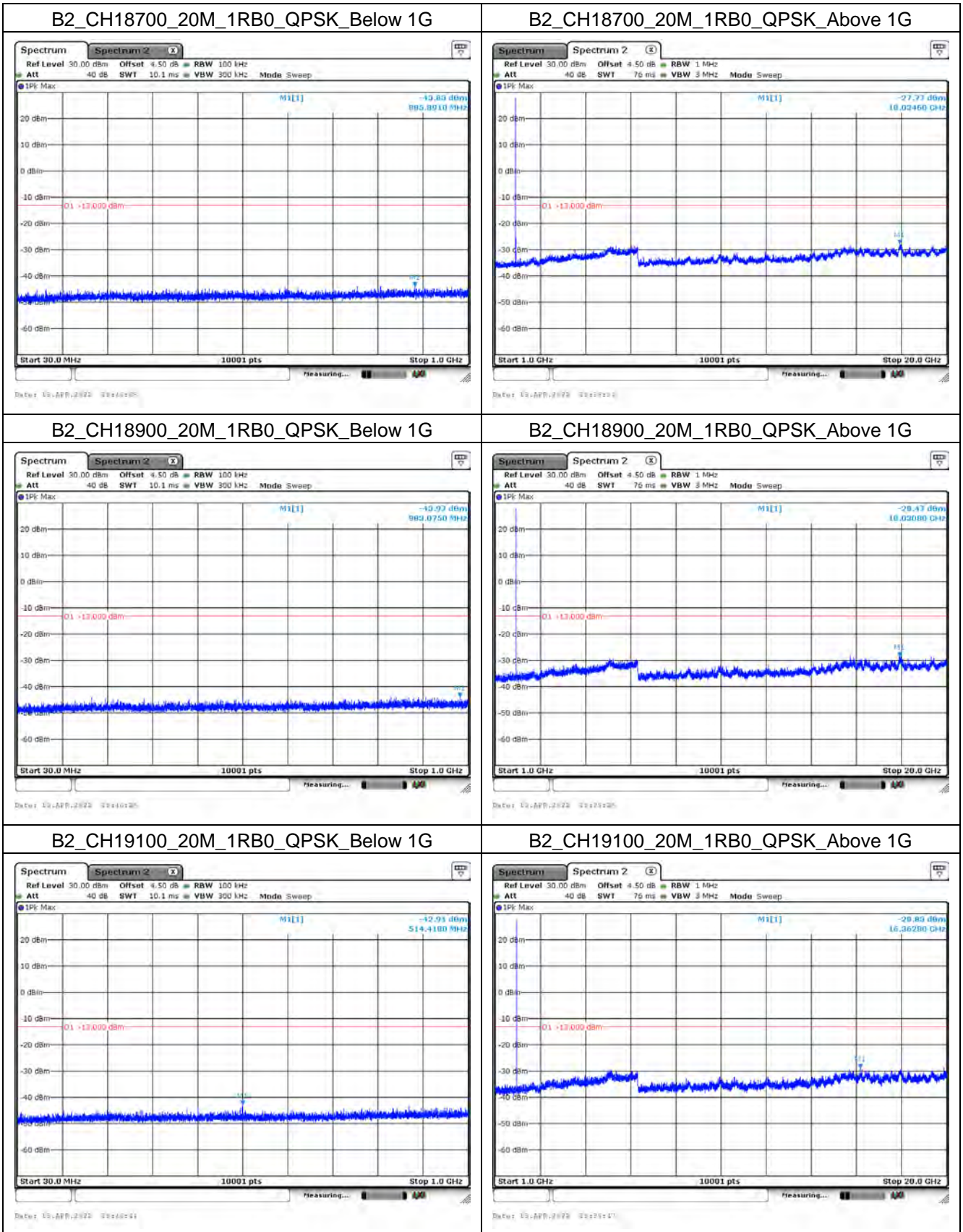




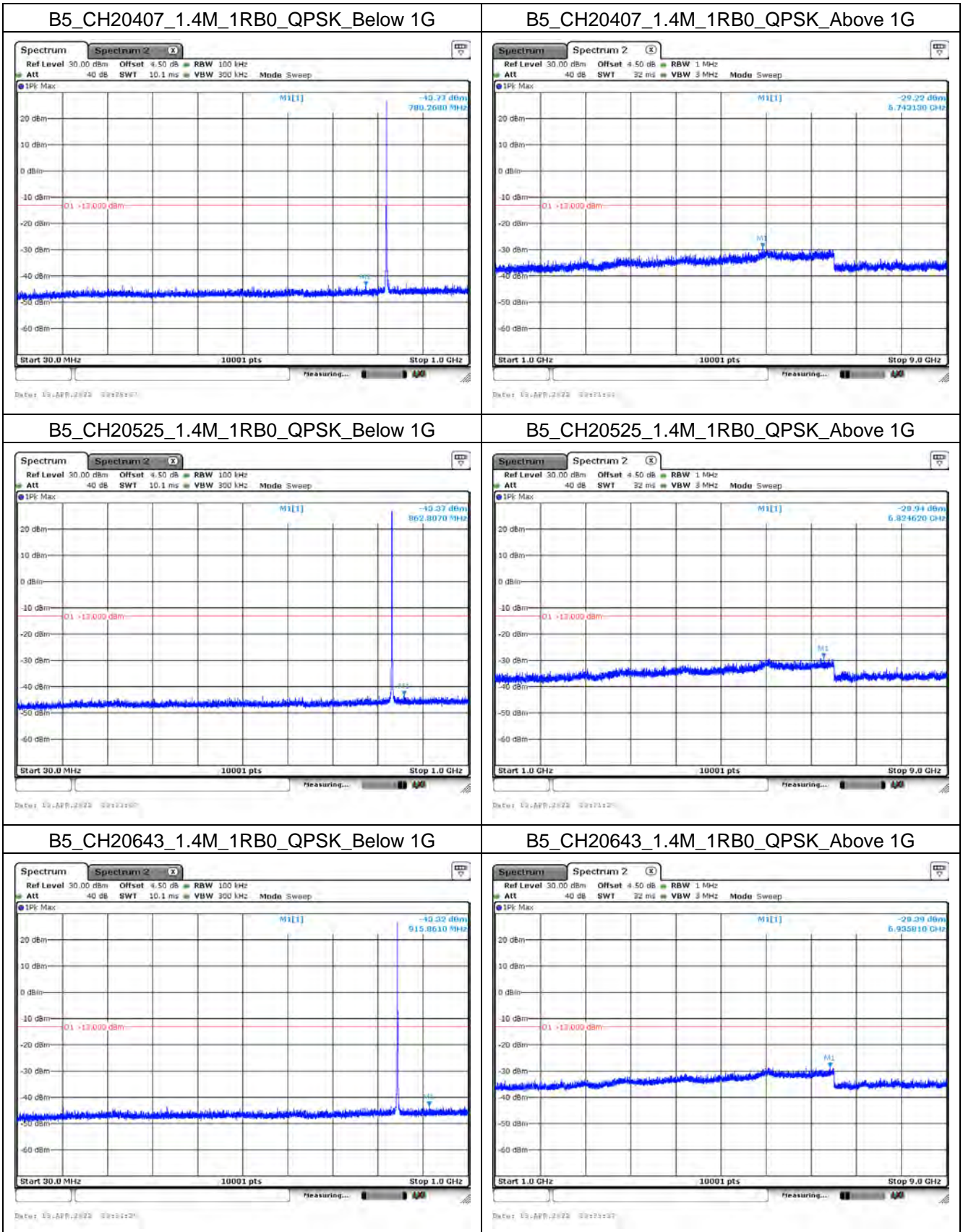




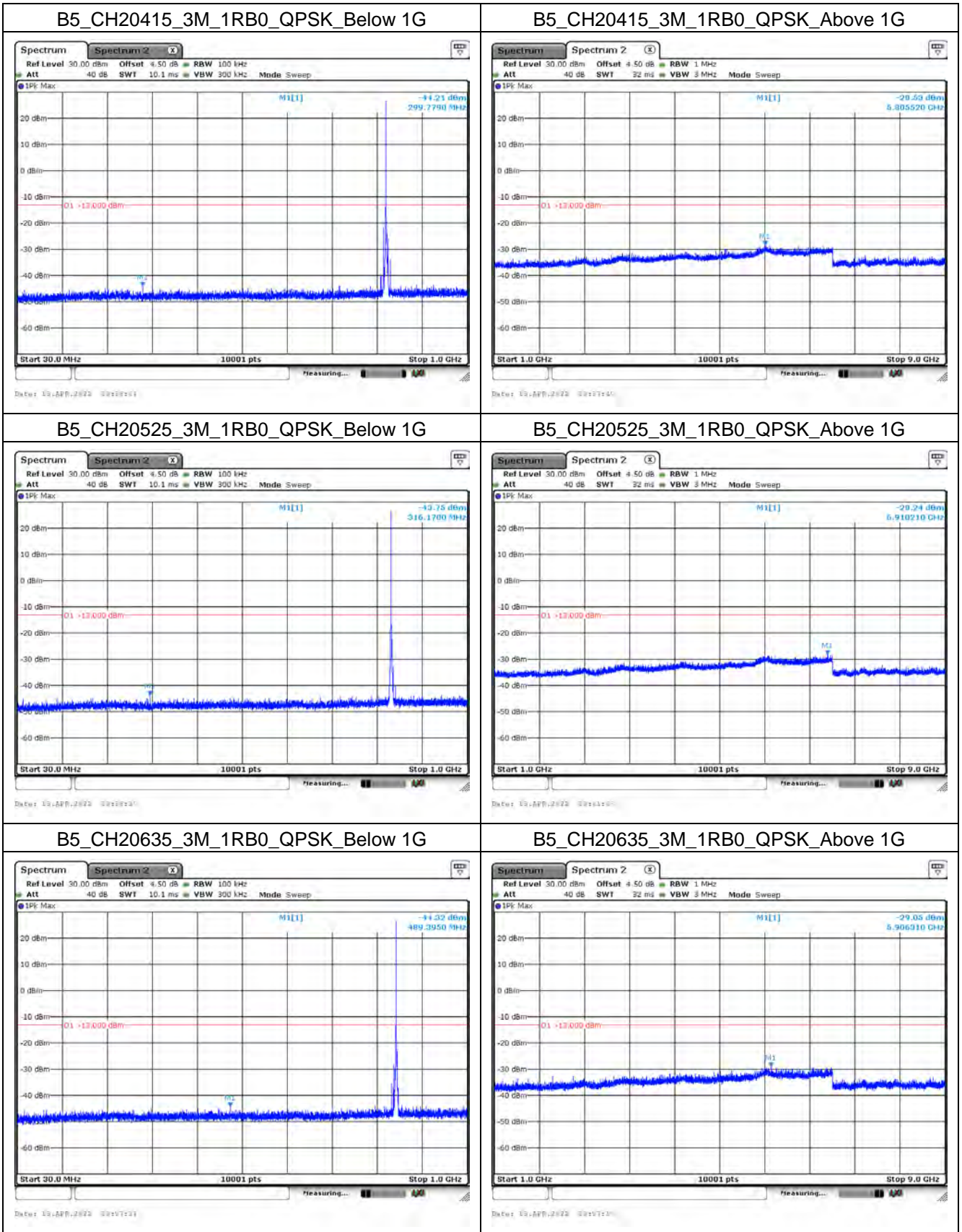


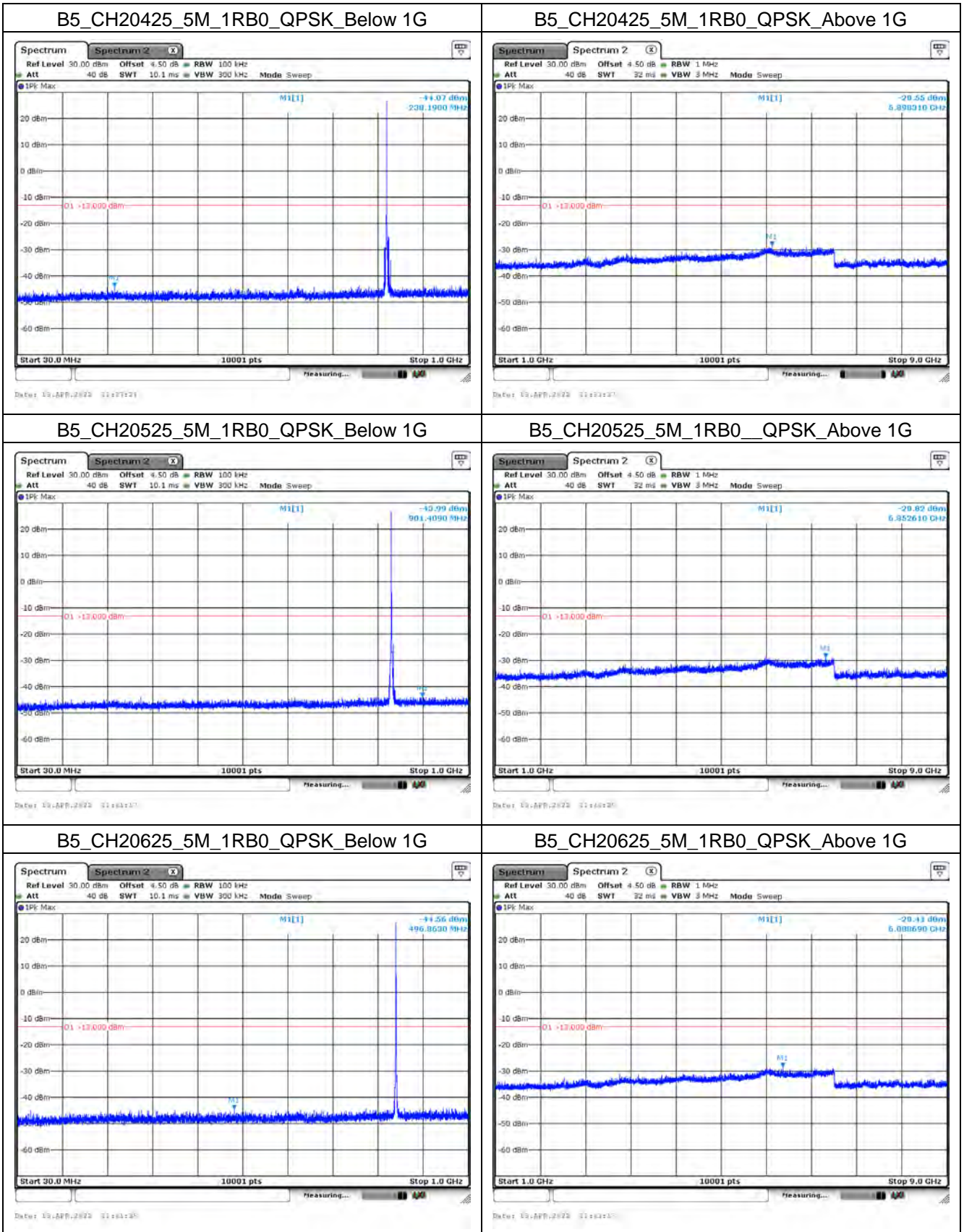


**Mode 2: LTE Band 5**

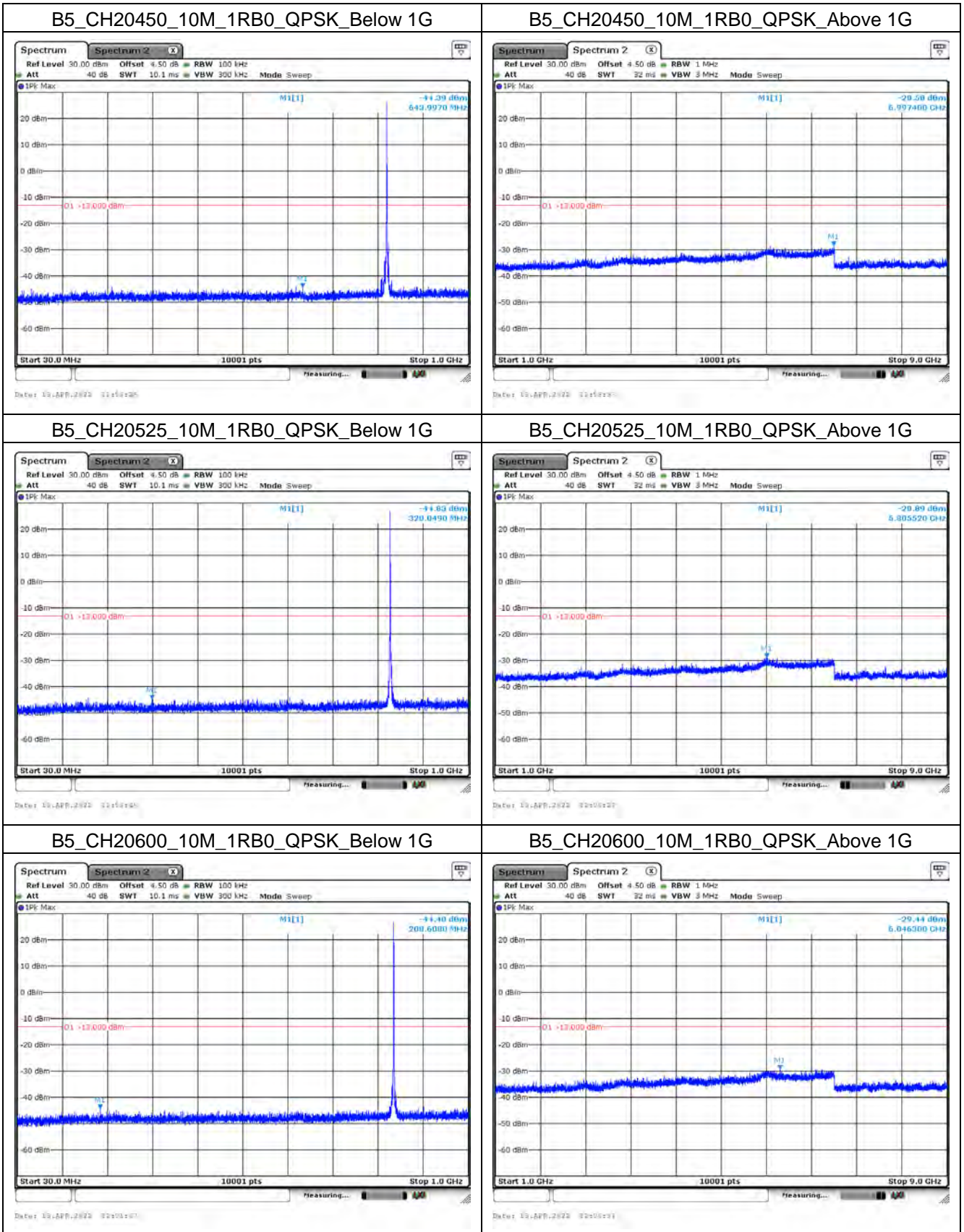




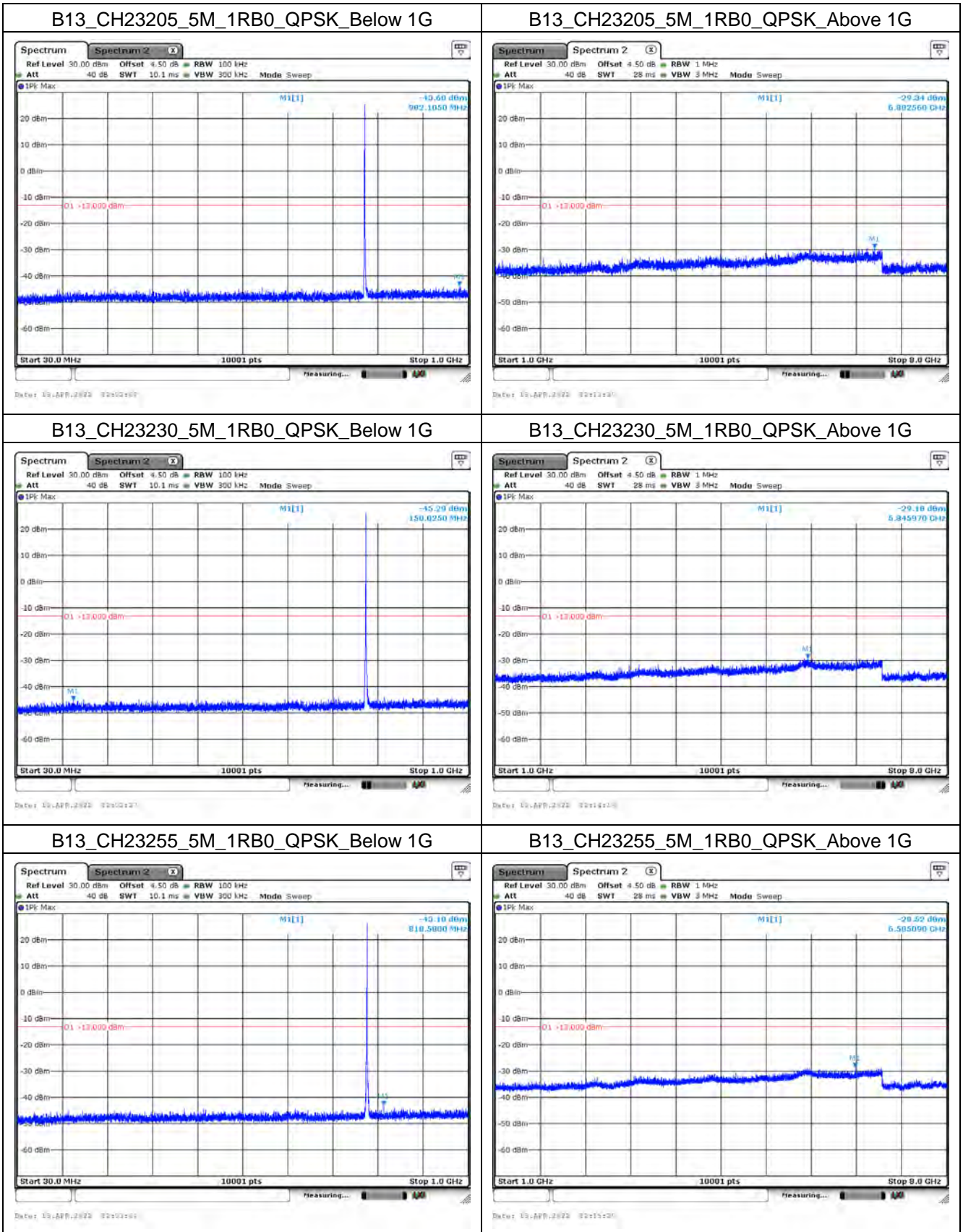




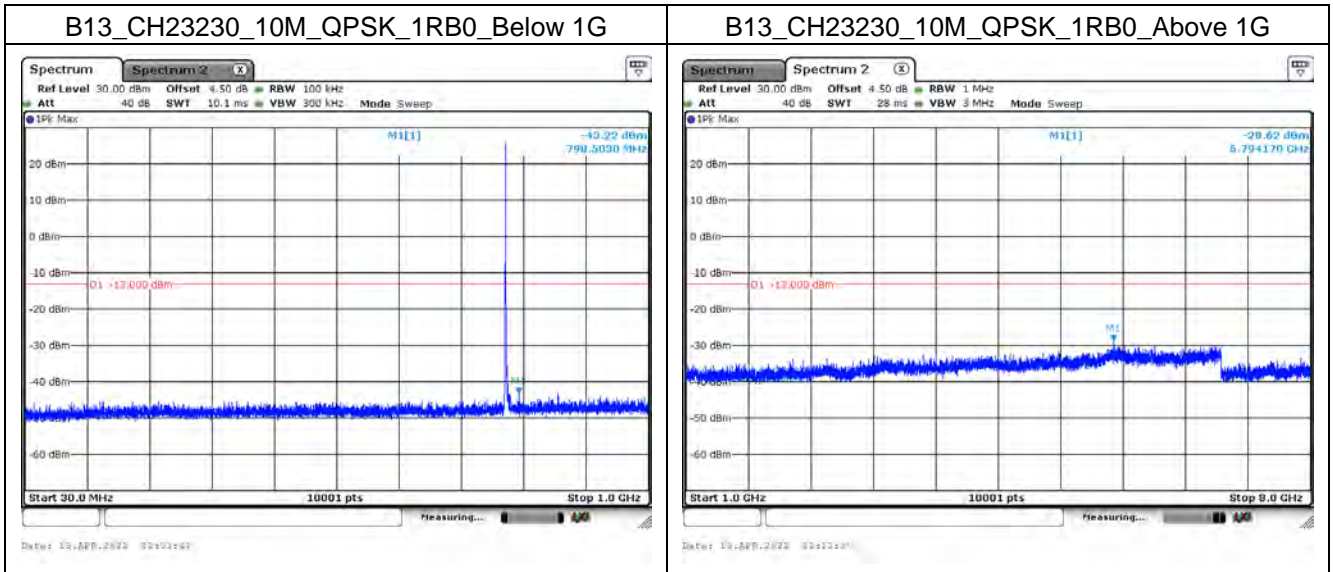




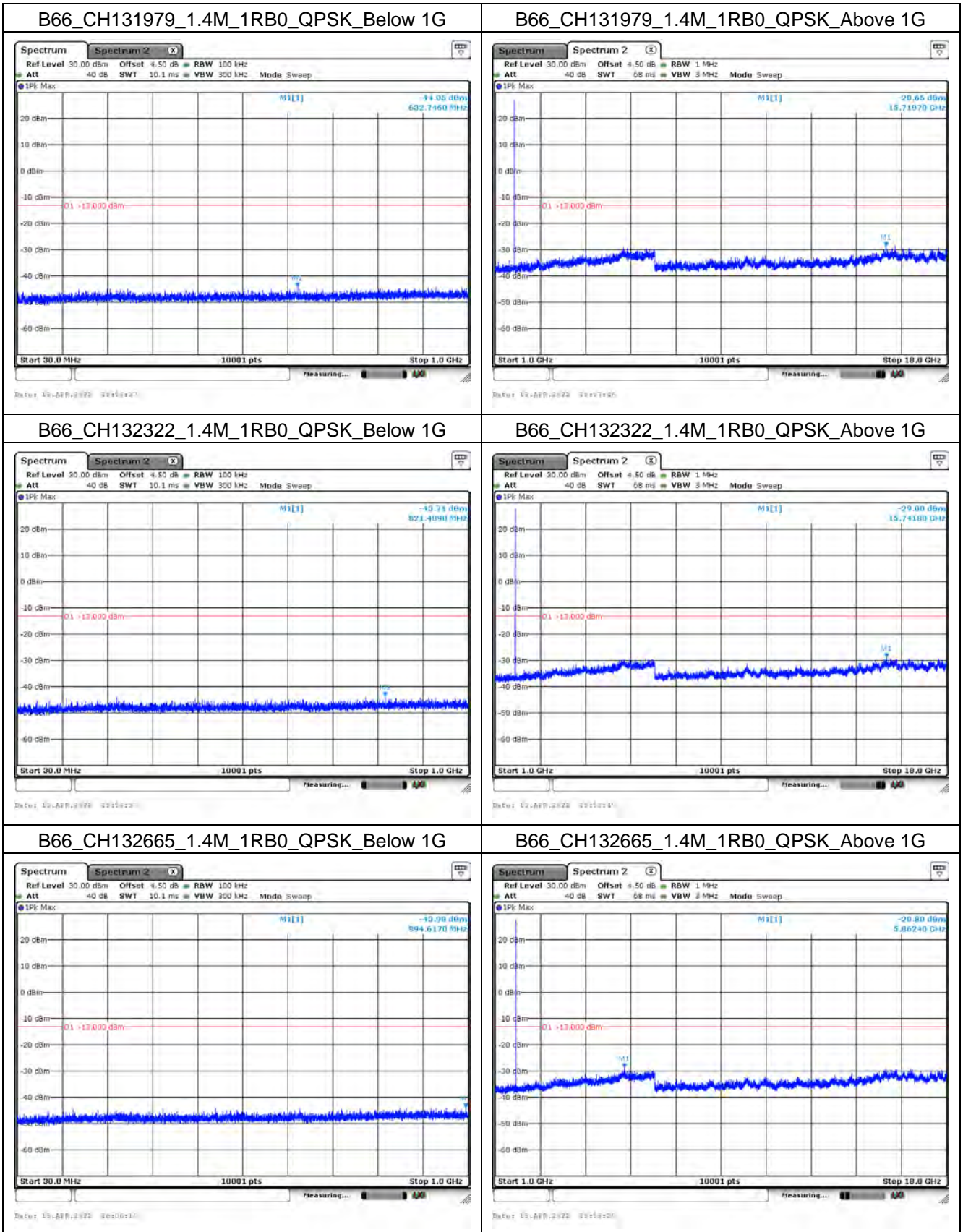
**Mode 3: LTE Band 13**



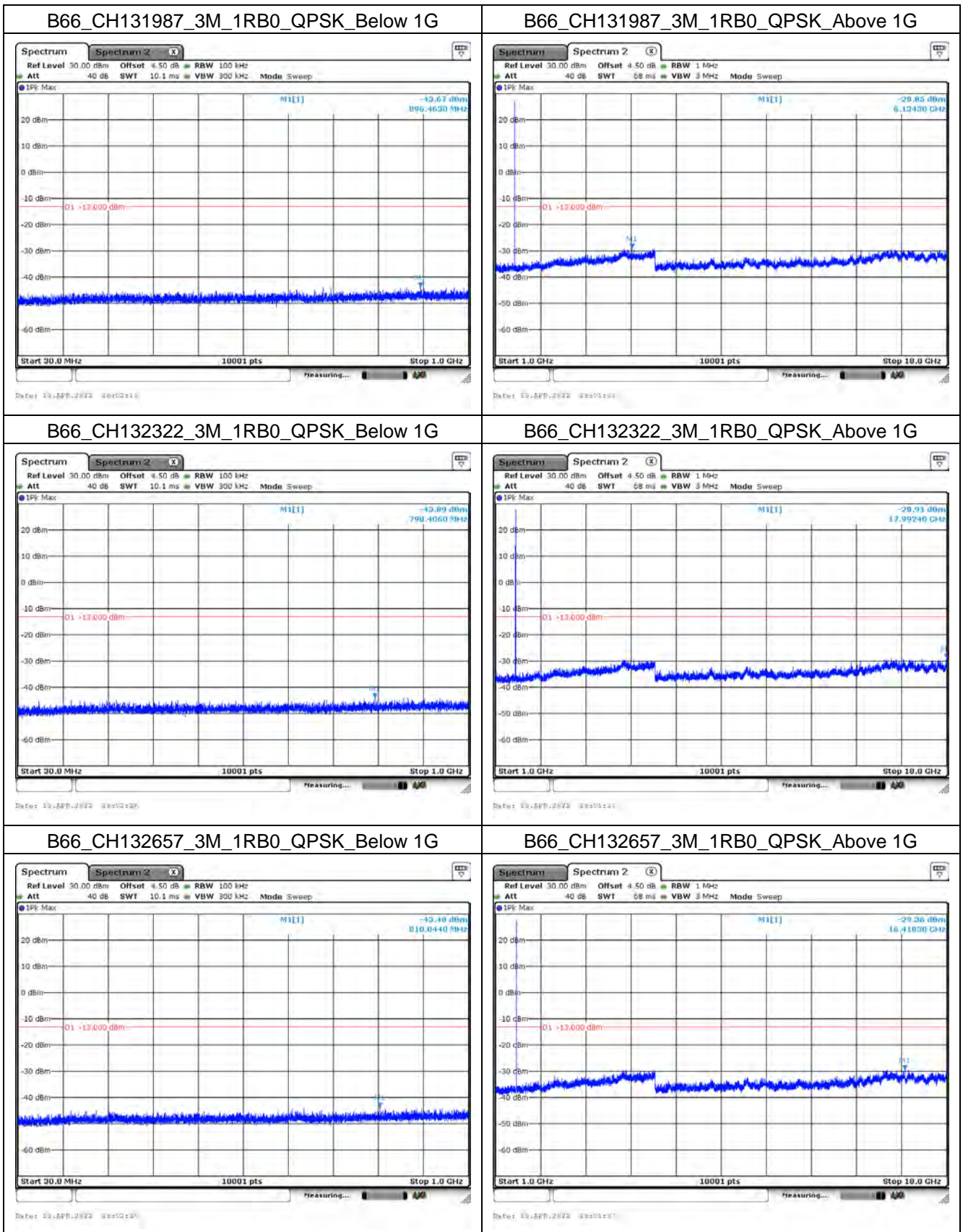


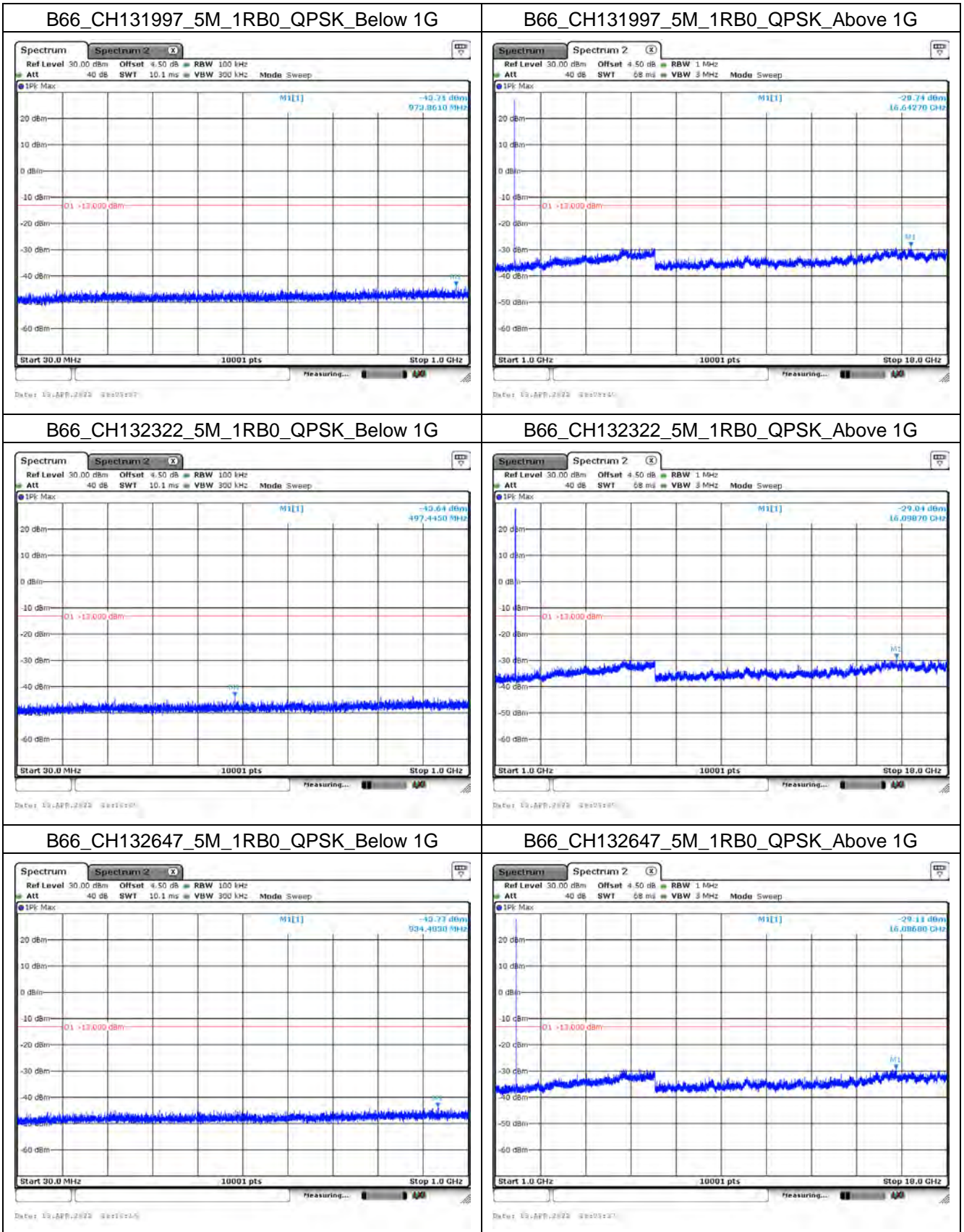


**Mode 4: LTE Band 66**

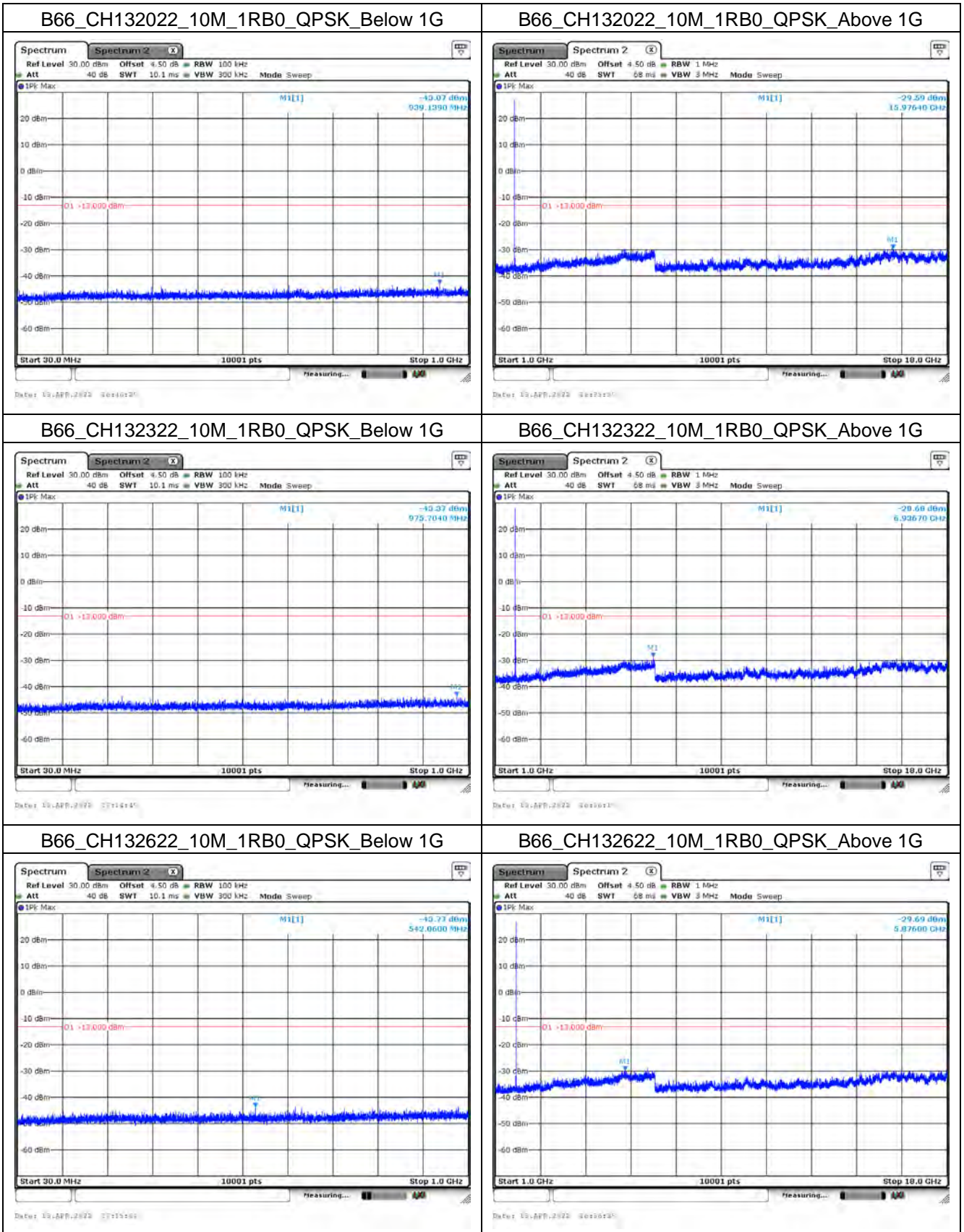


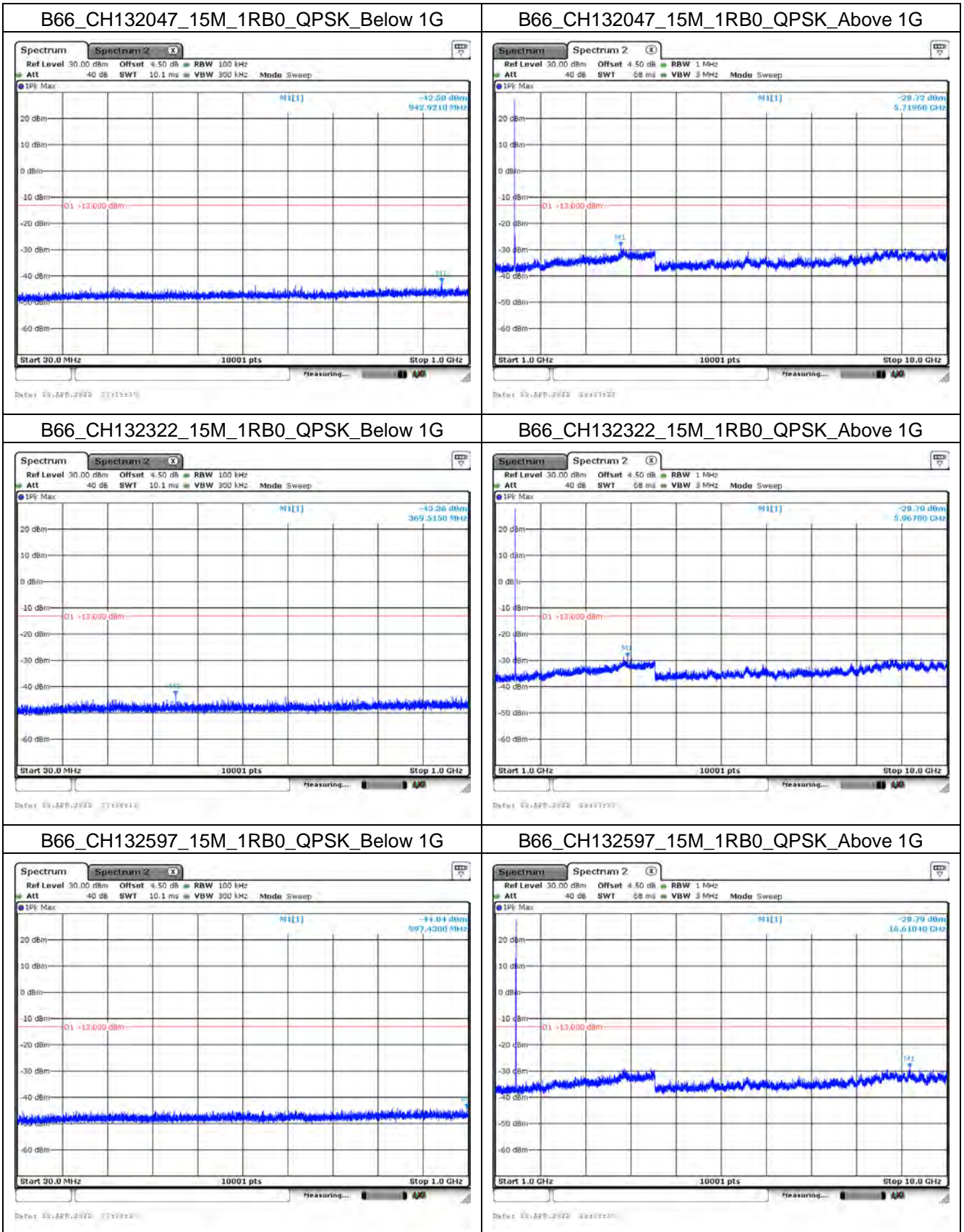




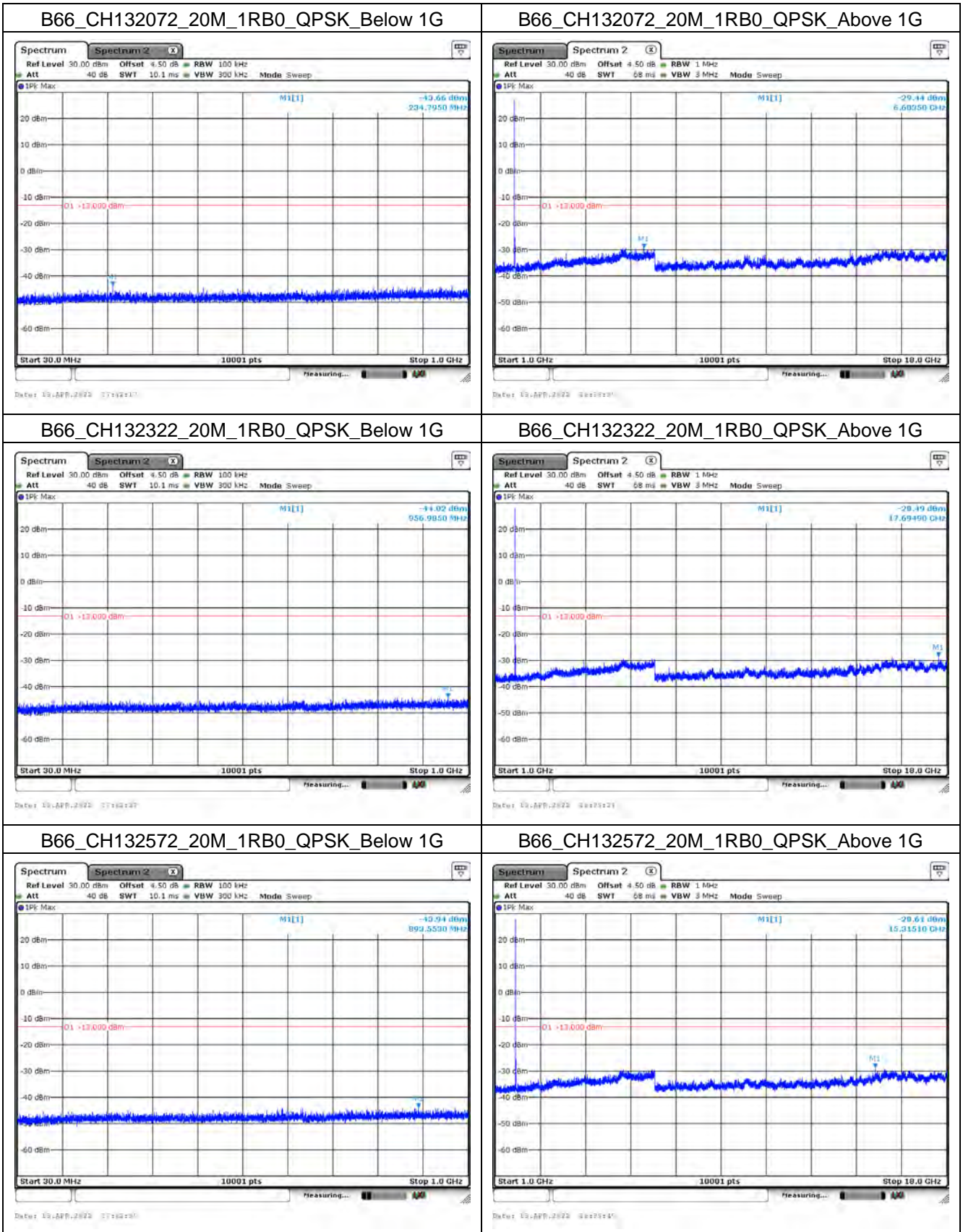






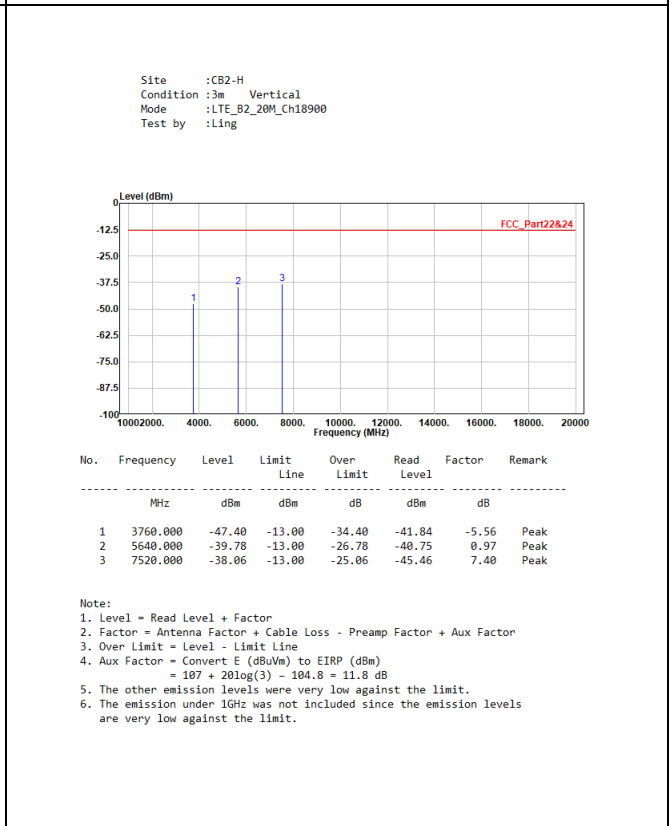
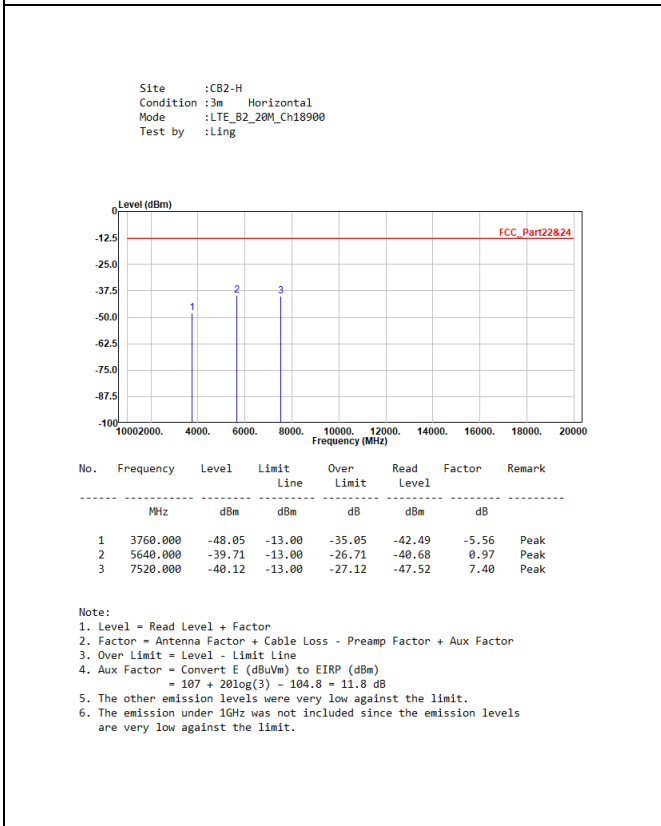
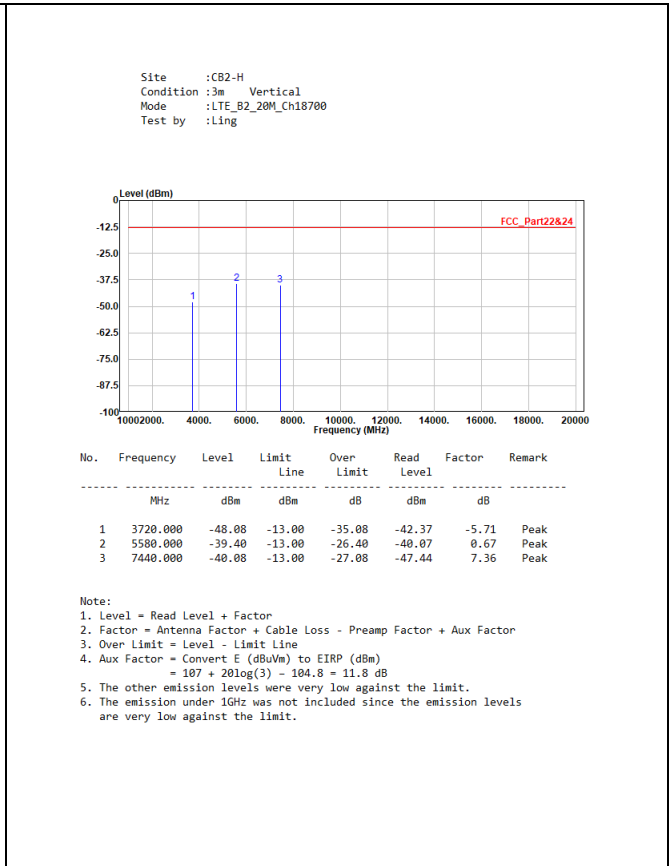
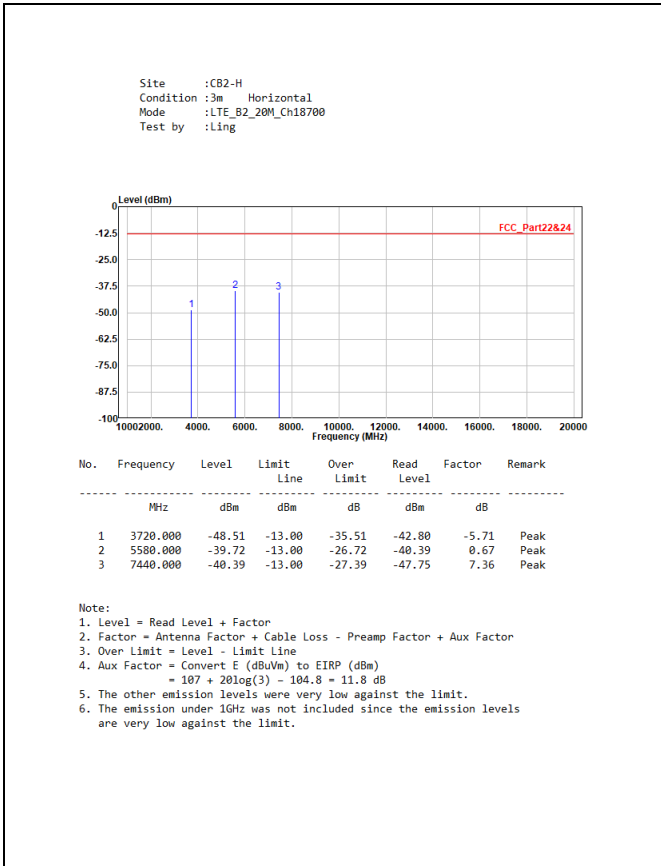






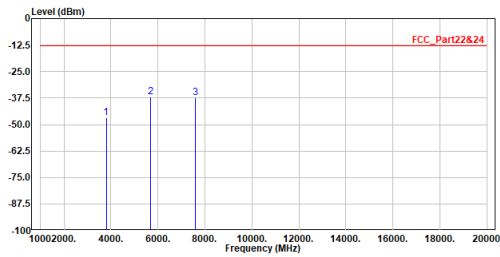
### 6.5. Test Result of Radiated Spurious Emission

#### Mode 1: LTE Band 2





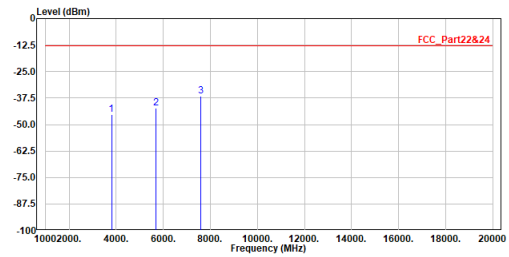
Site :CB2-H  
 Condition :3m Horizontal  
 Mode :LTE\_B2\_20M\_Ch19100  
 Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3800.000	-46.65	-13.00	-33.65	-41.24	-5.41	Peak
2	5700.000	-36.92	-13.00	-23.92	-38.20	1.28	Peak
3	7600.000	-37.19	-13.00	-24.19	-44.46	7.27	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)  
 $= 107 + 20\log(3) - 104.8 = 11.8 \text{ dB}$   
 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.

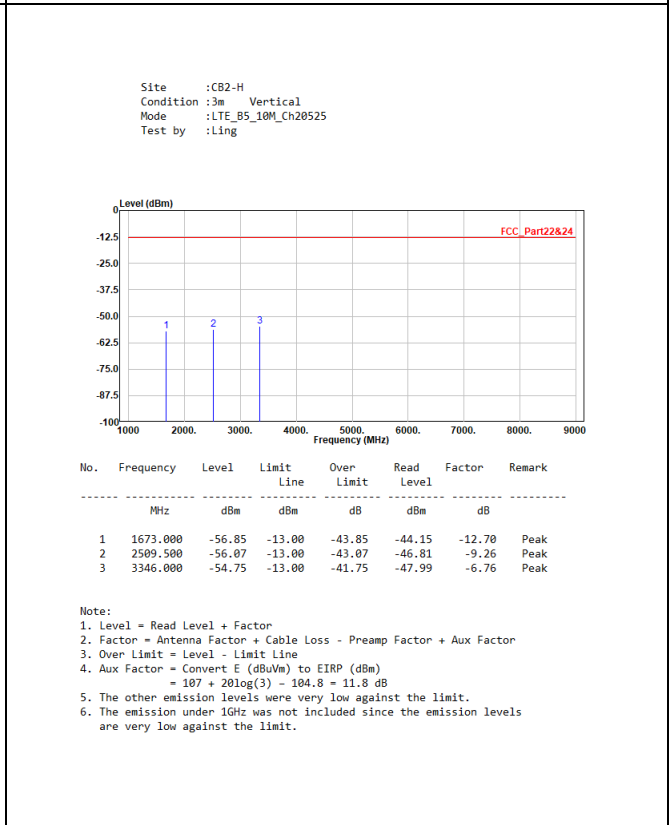
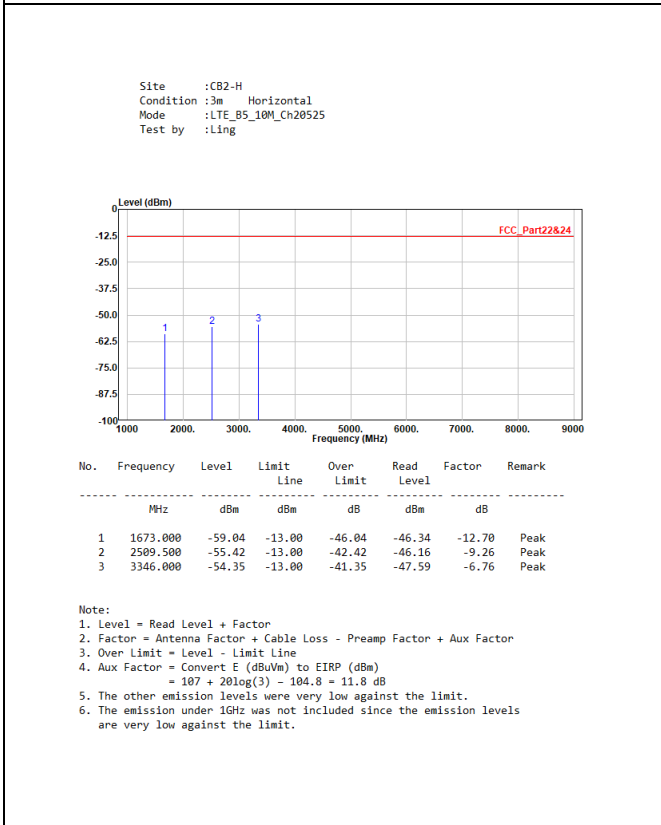
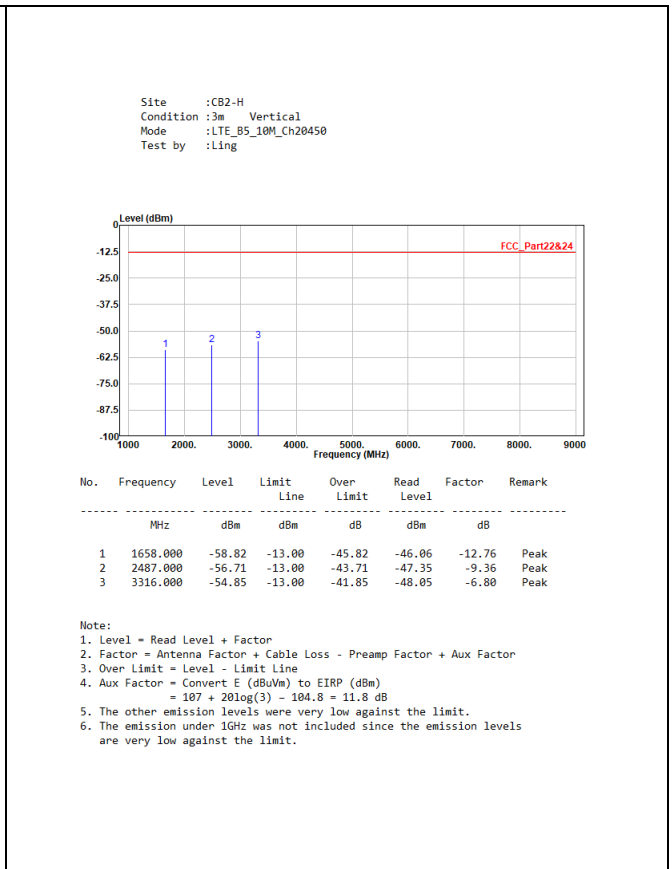
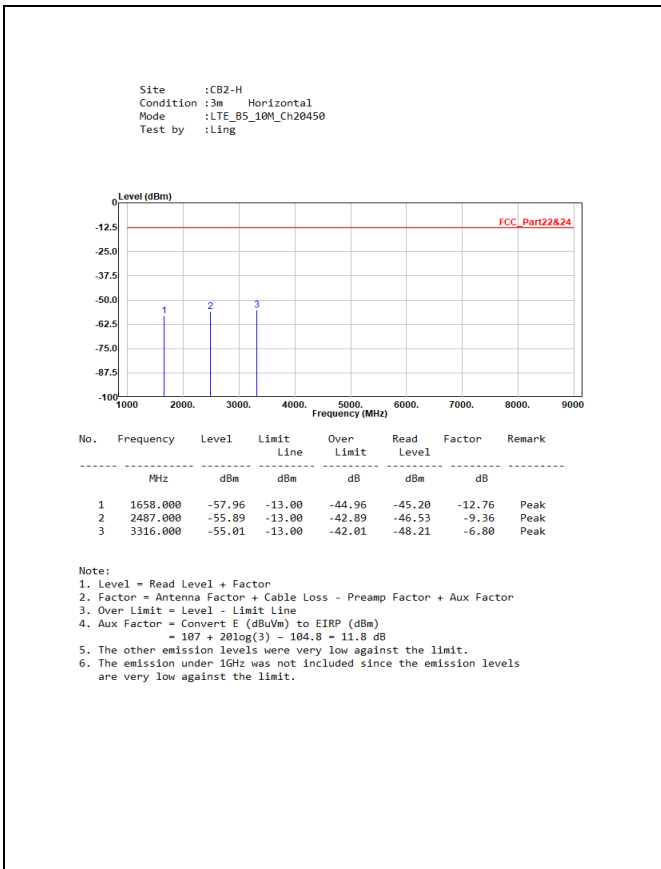
Site :CB2-H  
 Condition :3m Vertical  
 Mode :LTE\_B2\_20M\_Ch19100  
 Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	3800.000	-45.26	-13.00	-32.26	-39.85	-5.41	Peak
2	5700.000	-42.11	-13.00	-29.11	-43.39	1.28	Peak
3	7600.000	-36.47	-13.00	-23.47	-43.74	7.27	Peak

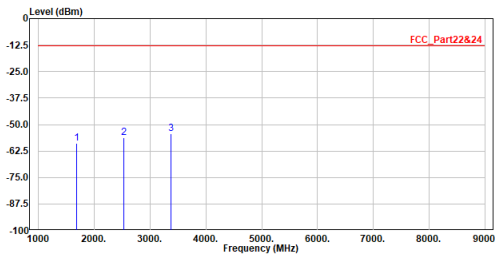
Note:  
 1. Level = Read Level + Factor  
 2. Factor = Antenna Factor + Cable Loss - Preamp Factor + Aux Factor  
 3. Over Limit = Level - Limit Line  
 4. Aux Factor = Convert E (dBuVm) to EIRP (dBm)  
 $= 107 + 20\log(3) - 104.8 = 11.8 \text{ dB}$   
 5. The other emission levels were very low against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

**Mode 2: LTE Band 5**





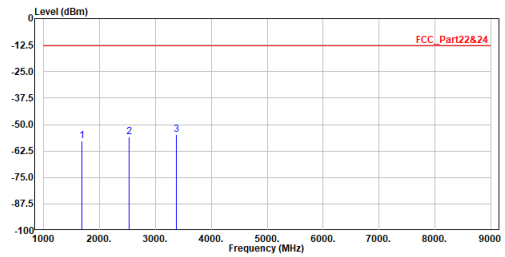
Site :CB2-H  
 Condition :3m Horizontal  
 Mode :LTE\_B5\_10M\_Ch20600  
 Test by :Ling



No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1688.000	-58.75	-13.00	-45.75	-46.09	-12.66	Peak
2	2532.000	-56.31	-13.00	-43.31	-47.15	-9.16	Peak
3	3376.000	-54.35	-13.00	-41.35	-47.63	-6.72	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)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  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 :CB2-H  
 Condition :3m Vertical  
 Mode :LTE\_B5\_10M\_Ch20600  
 Test by :Ling

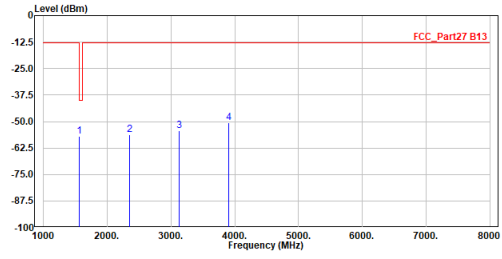


No.	Frequency	Level	Limit	Over	Read	Factor	Remark
	MHz	dBm	dBm	dB	dBm	dB	
1	1688.000	-57.77	-13.00	-44.77	-45.11	-12.66	Peak
2	2532.000	-55.82	-13.00	-42.82	-46.66	-9.16	Peak
3	3376.000	-54.60	-13.00	-41.60	-47.88	-6.72	Peak

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)  
 $= 107 + 20\log(3) - 104.8 = 11.8$  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.

**Mode 3: LTE Band 13**

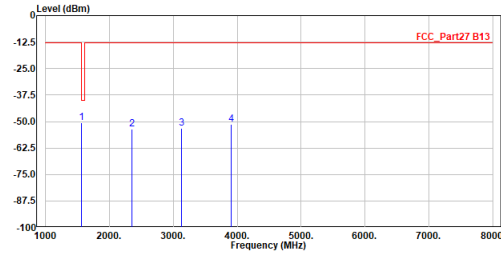
Site : CB2-H  
 Condition : 3m Horizontal  
 Mode : LTE\_B13\_10M\_Ch23230  
 Test by : Ling



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1564.000	-56.85	-40.00	-16.85	-43.76	-13.09	Peak
2	2346.000	-56.25	-13.00	-43.25	-46.25	-10.00	Peak
3	3128.000	-54.40	-13.00	-41.40	-47.36	-7.04	Peak
4	3910.000	-50.50	-13.00	-37.50	-45.52	-4.98	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 : CB2-H  
 Condition : 3m Vertical  
 Mode : LTE\_B13\_10M\_Ch23230  
 Test by : Ling



No.	Frequency MHz	Level dBm	Limit Line dBm	Over Limit dB	Read Level dBm	Factor dB	Remark
1	1564.000	-50.66	-40.00	-10.66	-37.57	-13.09	Peak
2	2346.000	-53.55	-13.00	-40.55	-43.55	-10.00	Peak
3	3128.000	-53.20	-13.00	-40.20	-46.16	-7.04	Peak
4	3910.000	-51.25	-13.00	-38.25	-46.27	-4.98	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.