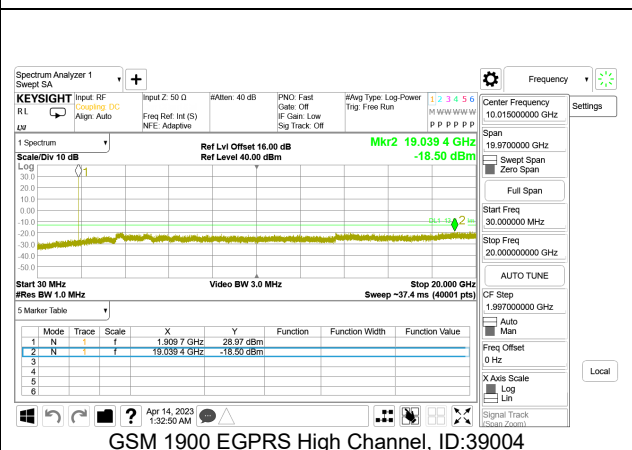
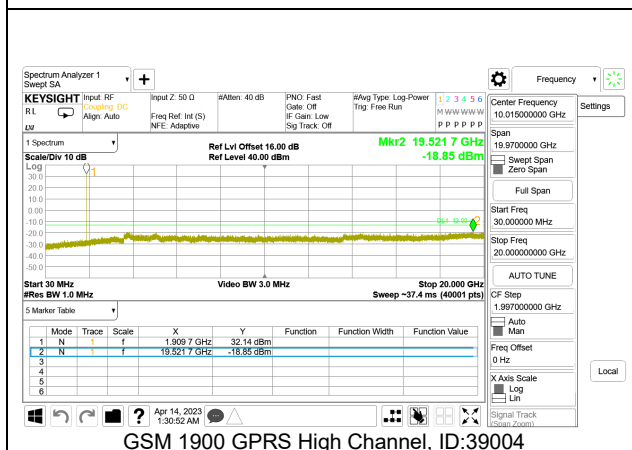
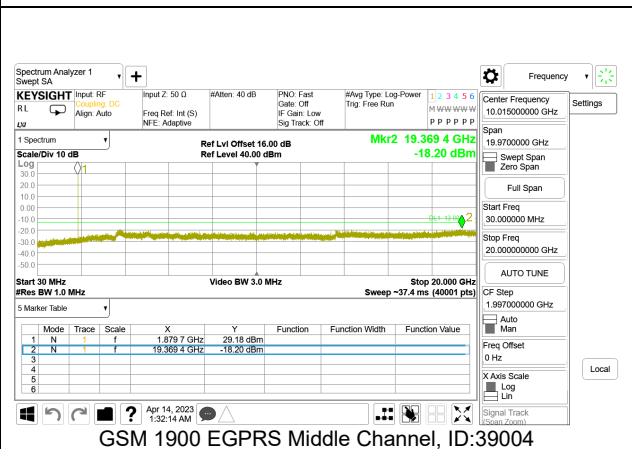
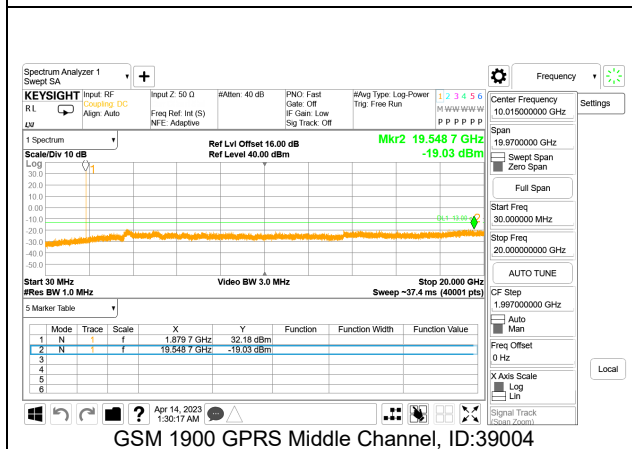
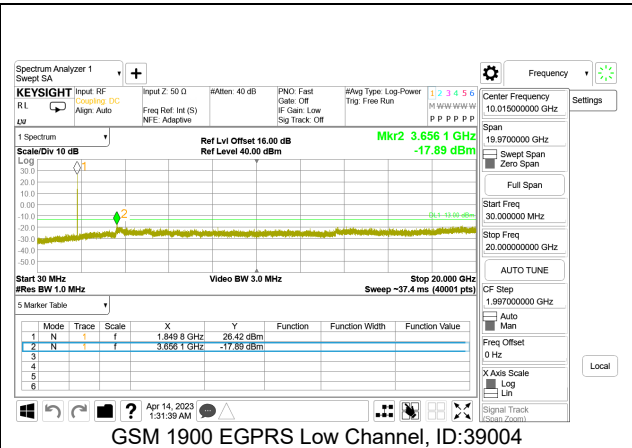
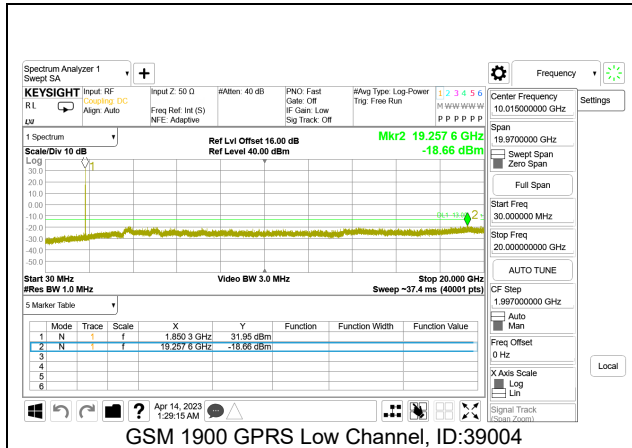
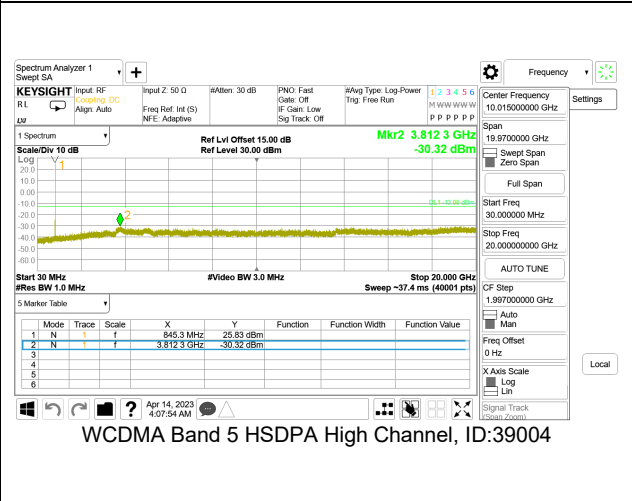
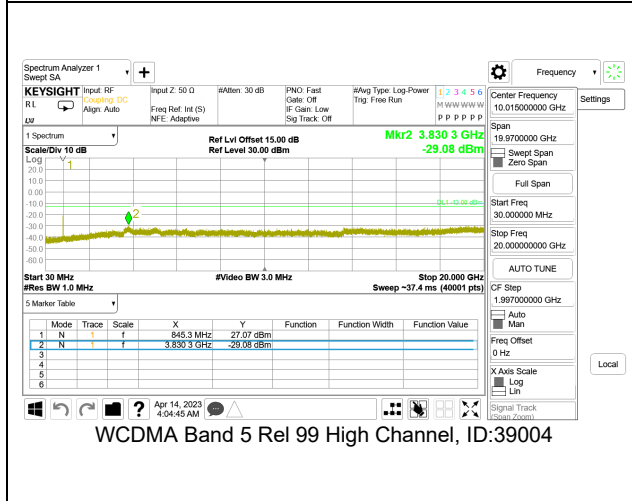
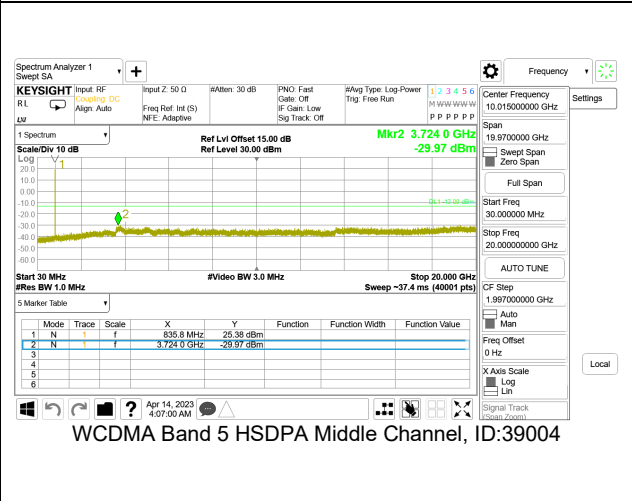
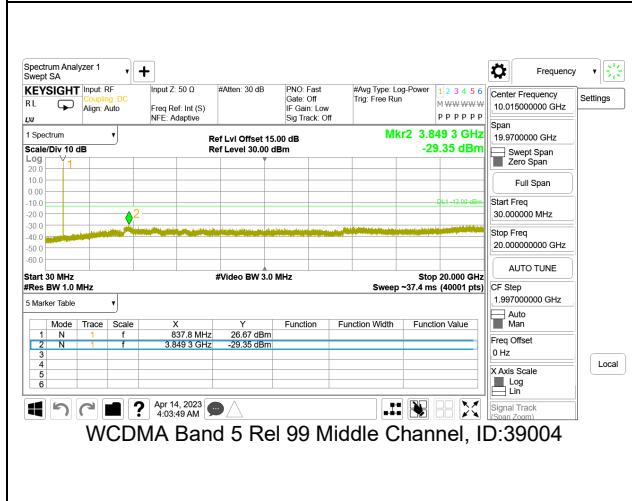
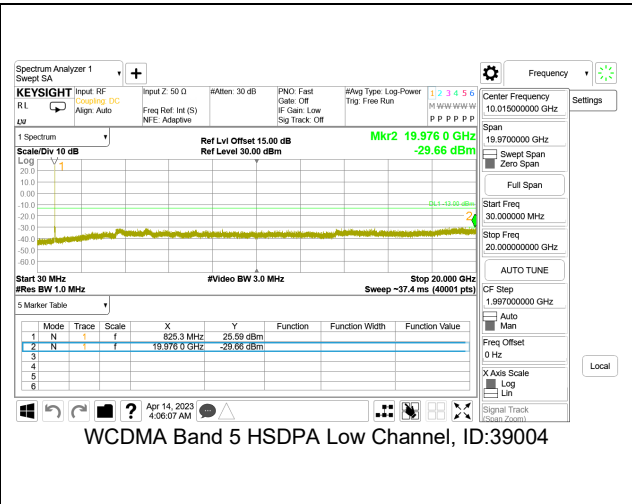
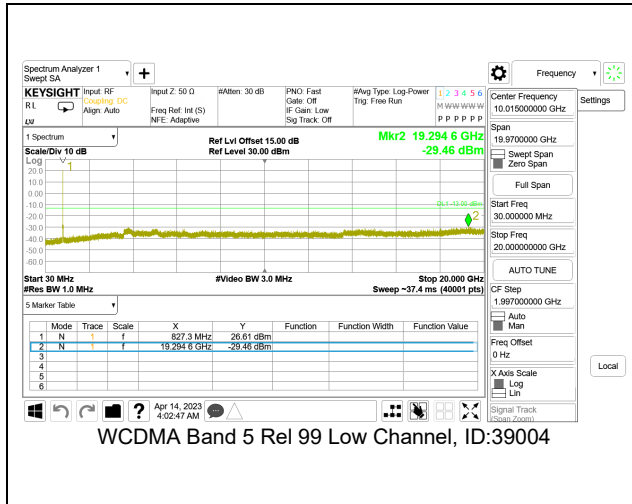


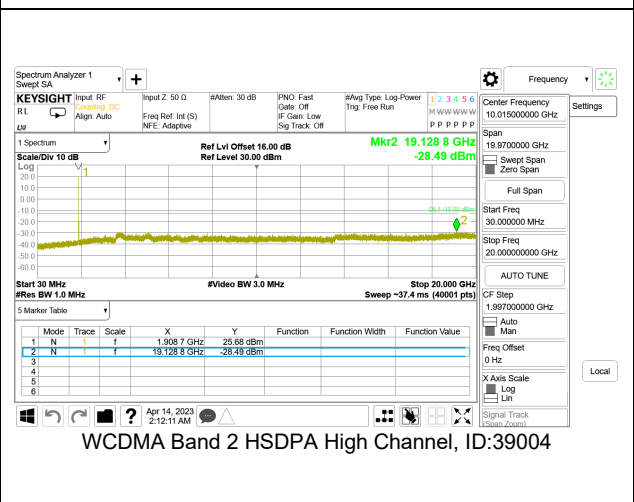
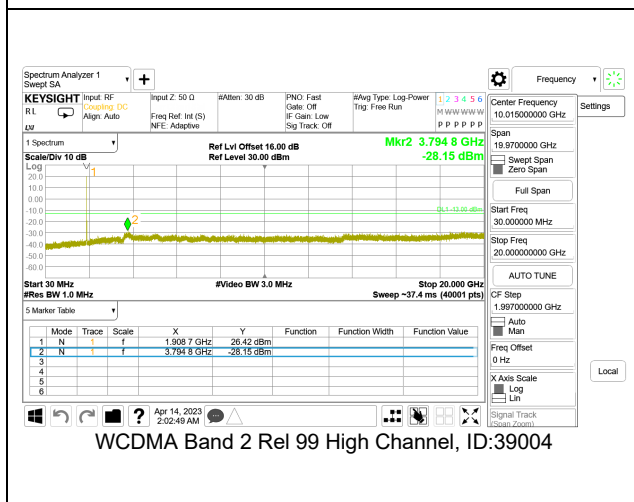
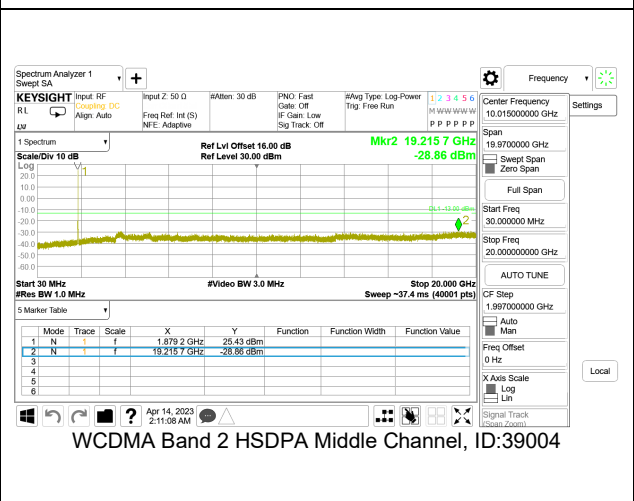
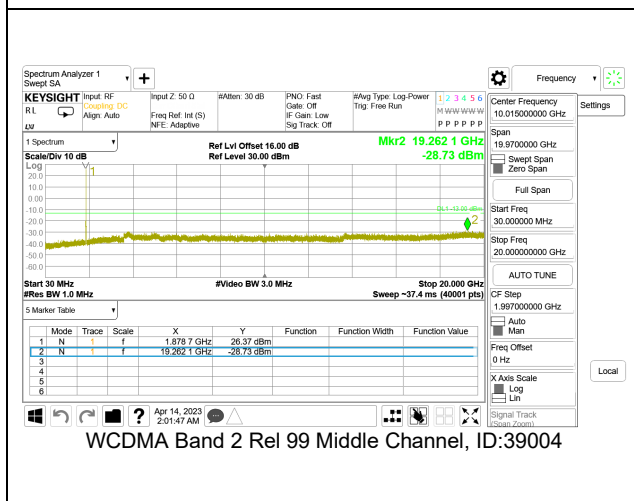
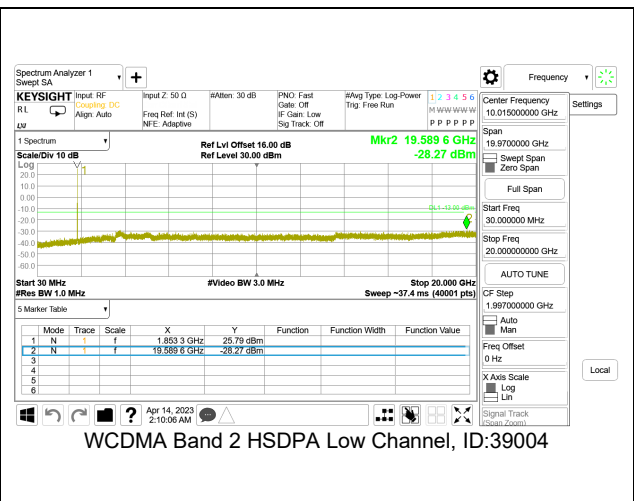
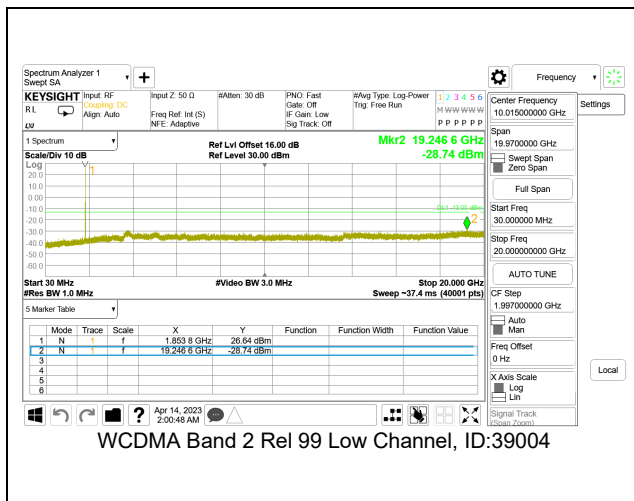
### 9.3.2. GSM 1900



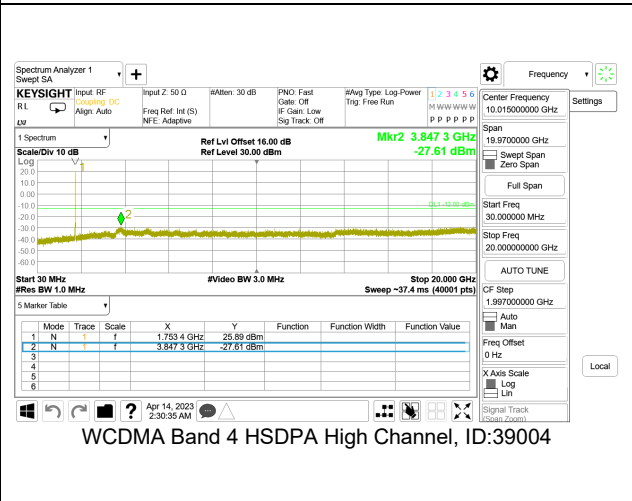
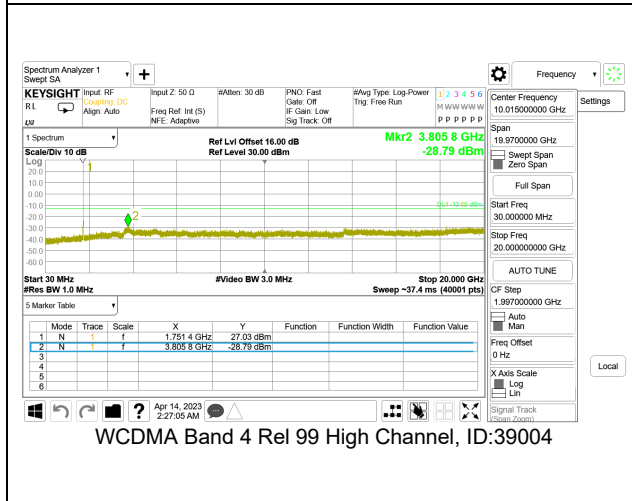
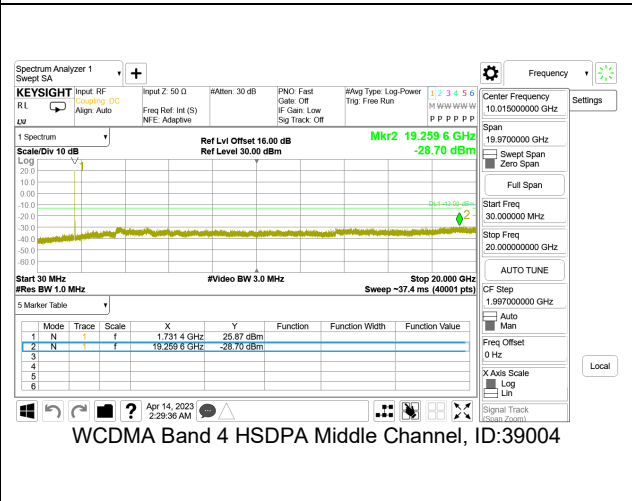
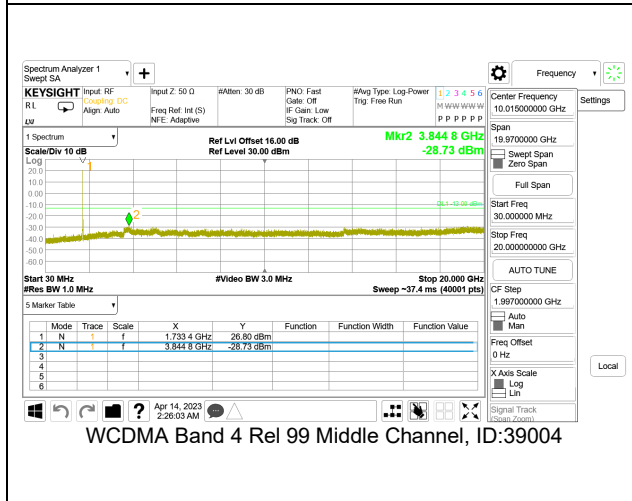
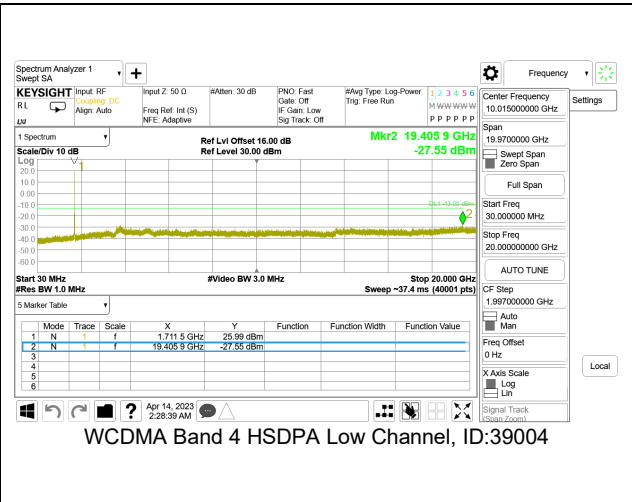
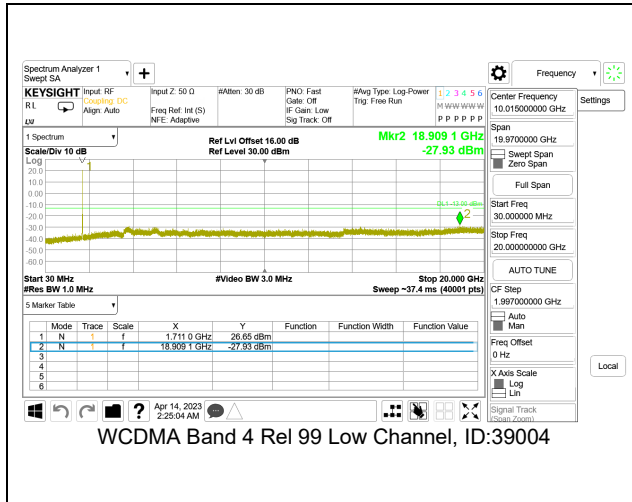
### 9.3.3. WCDMA BAND 5



### 9.3.4. WCDMA BAND 2



### 9.3.5. WCDMA BAND 4



## 9.4. FREQUENCY STABILITY

### RULE PART(S)

FCC: §2.1055, §22.355, §24.235, §27.54  
ISED: RSS132§5.3; RSS133§6.3 and RSS139§5.4

### LIMITS

FCC §22.355

The carrier frequency shall not depart from the reference frequency in excess of  $\pm 2.5$  ppm for mobile stations.

FCC §24.235 & §27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

RSS132§5.3

The carrier frequency shall not depart from the reference frequency in excess of  $\pm 2.5$  SRSP for mobile stations and  $\pm 1.5$  ppm for base stations.

In lieu of meeting the above stability values, the test report may show that the frequency stability is sufficient to ensure that the occupied bandwidth stays within each of the sub-bands (see Section 5.1) when tested to the temperature and supply voltage variations specified in RSS-Gen.

RSS133§6.3

The carrier frequency shall not depart from the reference frequency, in excess of  $\pm 2.5$  ppm for mobile stations and  $\pm 1.0$  ppm for base stations.

In lieu of meeting the above stability values, the test report may show that the frequency stability is sufficient to ensure that the emission bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

RSS139§5.4

The frequency stability shall be sufficient to ensure that the occupied bandwidth stays within the operating frequency block when tested to the temperature and supply voltage variations specified in RSS-Gen.

### TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

- Temp. =  $-30^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$
- Voltage = (85% - 115%)

Low voltage, 3.23VDC, Normal, 3.80VDC and High voltage, 4.37VDC.  
End Voltage, 2.95VDC.

#### **Frequency Stability vs Temperature:**

The EUT is placed inside a temperature chamber. The temperature is set to  $20^{\circ}\text{C}$  and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until  $+50^{\circ}\text{C}$  is reached.

#### **Frequency Stability vs Voltage:**

The peak frequency error is recorded (worst-case).

### RESULTS

See the following pages.

### 9.4.1. GSM

Test Engineer ID:	39004	Test Date:	5/11/2023
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#### GPRS 850

Band	850	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		824	849		Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)			
Normal (20°C)	Normal	824.0310	848.9581			
Extreme (50°C)		824.0310	848.9581	12.9	0.015	Yes
Extreme (40°C)		824.0310	848.9581	11.4	0.014	Yes
Extreme (30°C)		824.0310	848.9581	10.1	0.012	Yes
Extreme (10°C)		824.0310	848.9581	10.7	0.013	Yes
Extreme (0°C)		824.0310	848.9581	9.5	0.011	Yes
Extreme (-10°C)		824.0310	848.9581	9.1	0.011	Yes
Extreme (-20°C)		824.0310	848.9581	8.5	0.010	Yes
Extreme (-30°C)		824.0310	848.9581	8.2	0.010	Yes
20°C	15%	824.0310	848.9581	6.8	0.008	Yes
	-15%	824.0310	848.9581	17.0	0.020	Yes
	End Point Voltage	824.0310	848.9581	15.9	0.019	Yes

**GPRS 1900**

Band		1900		Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1850	1910	Frequency Stability (ppm)	Within Authorized Frequency Block (Hz)			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)					
Normal (20°C)	Normal	1850.0409	1909.9508					
Extreme (50°C)		1850.0409	1909.9508	15.4	0.008	Yes		
Extreme (40°C)		1850.0409	1909.9508	13.2	0.007	Yes		
Extreme (30°C)		1850.0409	1909.9508	12.6	0.007	Yes		
Extreme (10°C)		1850.0409	1909.9508	11.0	0.006	Yes		
Extreme (0°C)		1850.0409	1909.9508	10.2	0.005	Yes		
Extreme (-10°C)		1850.0409	1909.9508	9.7	0.005	Yes		
Extreme (-20°C)		1850.0409	1909.9508	11.3	0.006	Yes		
Extreme (-30°C)		1850.0409	1909.9508	8.9	0.005	Yes		
20°C	15%	1850.0409	1909.9508	18.2	0.010	Yes		
	-15%	1850.0409	1909.9508	16.2	0.009	Yes		
	End Point Voltage	1850.0409	1909.9508	15.7	0.008	Yes		

### 9.4.2. WCDMA

Test Engineer ID:	39004	Test Date:	5/11/2023
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#### WCDMA REL 99 BAND 5

Band	5	Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		824	849		2.5	Within Authorized Frequency Block (Hz)
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)		Frequency Stability (ppm)	
Normal (20°C)	Normal	824.0580	848.9341			
Extreme (50°C)		824.0580	848.9341	8.5	0.010	Yes
Extreme (40°C)		824.0580	848.9341	7.3	0.009	Yes
Extreme (30°C)		824.0580	848.9341	6.5	0.008	Yes
Extreme (10°C)		824.0580	848.9341	3.2	0.004	Yes
Extreme (0°C)		824.0580	848.9341	2.4	0.003	Yes
Extreme (-10°C)		824.0580	848.9341	-1.0	-0.001	Yes
Extreme (-20°C)		824.0580	848.9341	-2.2	-0.003	Yes
Extreme (-30°C)		824.0580	848.9341	-3.1	-0.004	Yes
20°C	15%	824.0580	848.9341	6.5	0.008	Yes
	-15%	824.0580	848.9341	4.1	0.005	Yes
	End Point Voltage	824.0580	848.9341	3.3	0.004	Yes



**WCDMA REL 99 BAND 2**

Band		2		Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1850	1910	2.5			Within Authorized Frequency Block (Hz)	
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)	Frequency Stability (ppm)				
Normal (20°C)	Normal	1850.0817	1909.9157					
Extreme (50°C)		1850.0817	1909.9157	8.0	0.004	Yes		
Extreme (40°C)		1850.0817	1909.9157	7.9	0.004	Yes		
Extreme (30°C)		1850.0817	1909.9157	6.5	0.003	Yes		
Extreme (10°C)		1850.0817	1909.9157	4.5	0.002	Yes		
Extreme (0°C)		1850.0817	1909.9157	3.2	0.002	Yes		
Extreme (-10°C)		1850.0817	1909.9157	3.8	0.002	Yes		
Extreme (-20°C)		1850.0817	1909.9157	5.2	0.003	Yes		
Extreme (-30°C)		1850.0817	1909.9157	5.7	0.003	Yes		
20°C	15%	1850.0817	1909.9157	4.3	0.002	Yes		
	-15%	1850.0817	1909.9157	5.6	0.003	Yes		
	End Point Voltage	1850.0817	1909.9157	4.2	0.002	Yes		

**WCDMA REL 99 BAND 4**

Band		4		Frequency Range		Frequency Error Reading (Hz)	Limit	
Condition		1710	1755	2.5	Within Authorized Frequency Block (Hz)			
Temperature	Voltage	Freq Reading @ Low End (MHz)	Freq Reading @ High End (MHz)				Frequency Stability (ppm)	
Normal (20°C)	Normal	1710.0933	1754.9122					
Extreme (50°C)		1710.0933	1754.9122	10.0	0.006	Yes		
Extreme (40°C)		1710.0933	1754.9122	8.8	0.005	Yes		
Extreme (30°C)		1710.0933	1754.9122	9.2	0.005	Yes		
Extreme (10°C)		1710.0933	1754.9122	11.6	0.007	Yes		
Extreme (0°C)		1710.0933	1754.9122	4.7	0.003	Yes		
Extreme (-10°C)		1710.0933	1754.9122	-4.2	-0.002	Yes		
Extreme (-20°C)		1710.0933	1754.9122	-14.5	-0.008	Yes		
Extreme (-30°C)		1710.0933	1754.9122	-21.0	-0.012	Yes		
20°C	15%	1710.0933	1754.9122	7.3	0.004	Yes		
	-15%	1710.0933	1754.9122	6.7	0.004	Yes		
	End Point Voltage	1710.0933	1754.9122	6.5	0.004	Yes		

## 9.5. PEAK-TO-AVERAGE POWER RATIO

### LIMIT

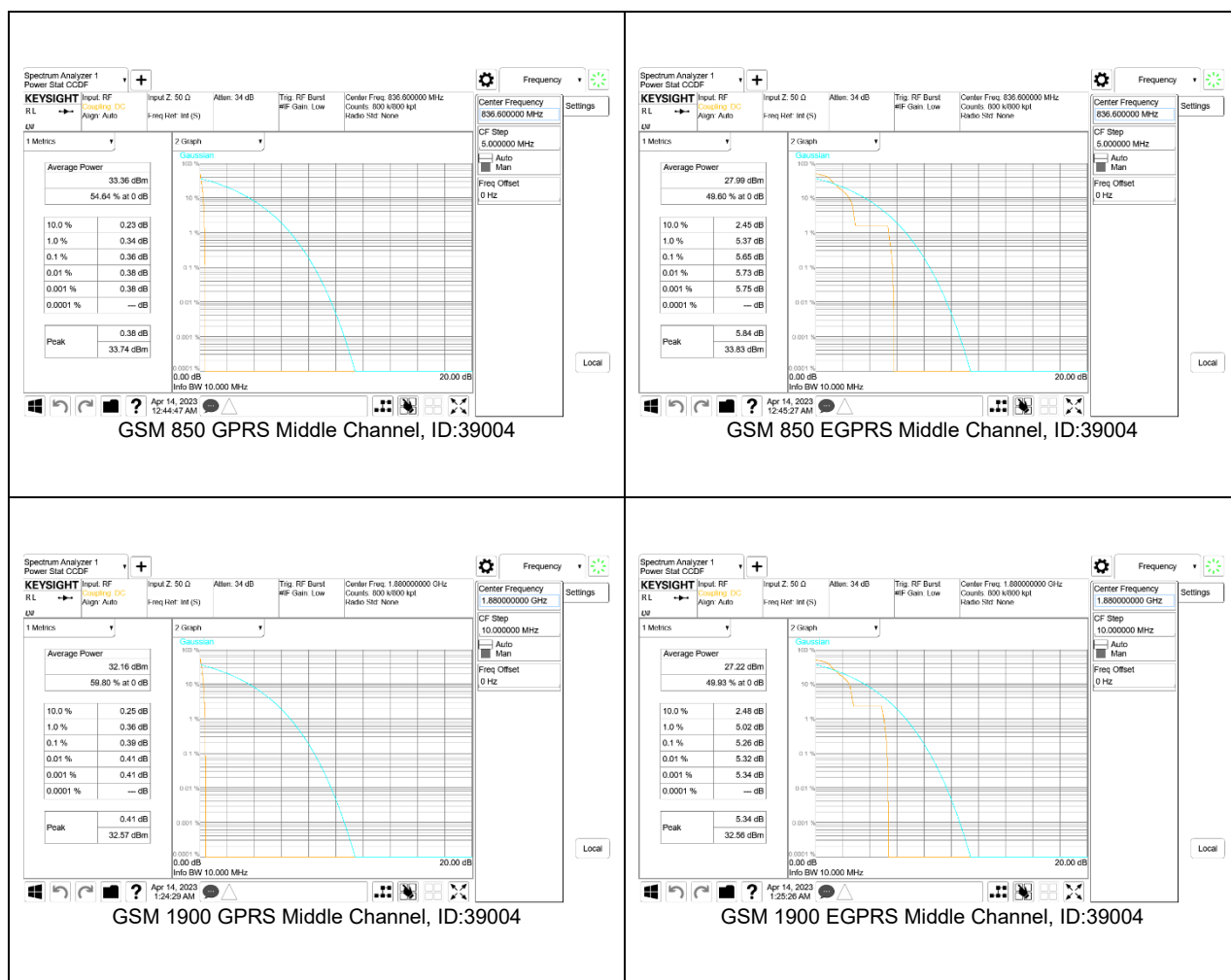
In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

### RESULT

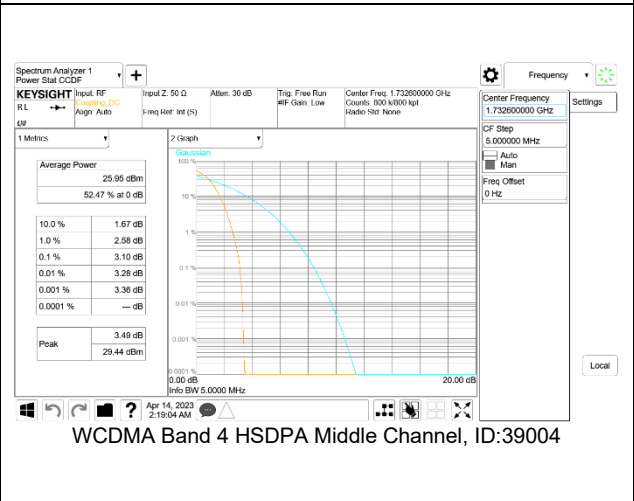
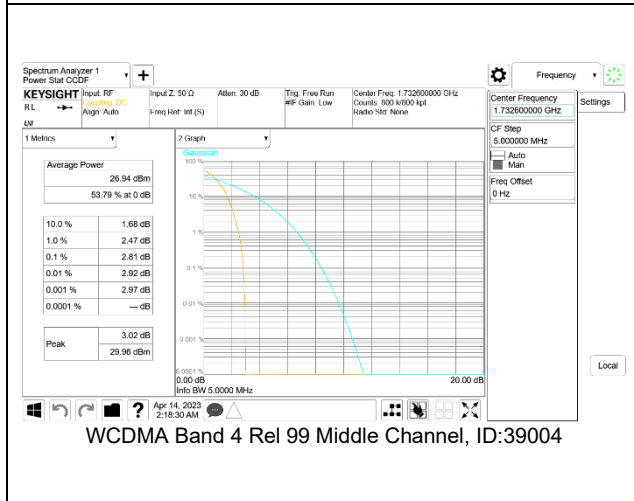
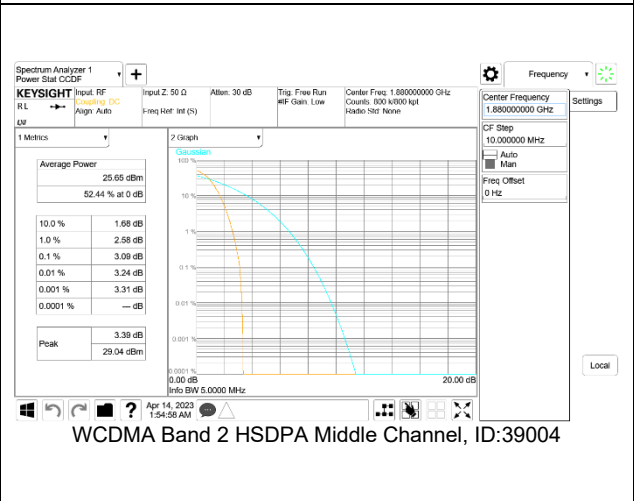
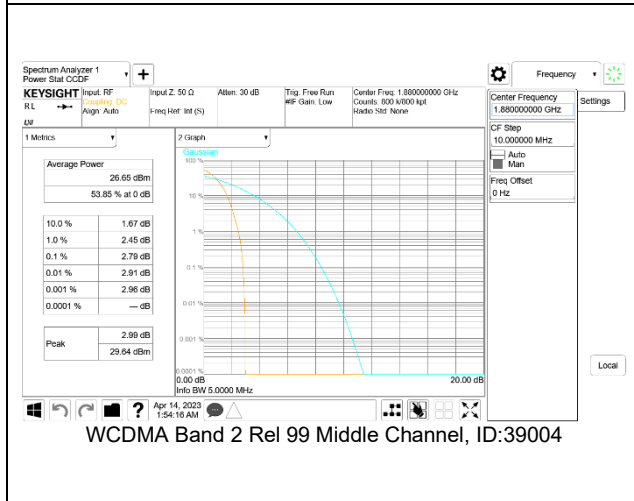
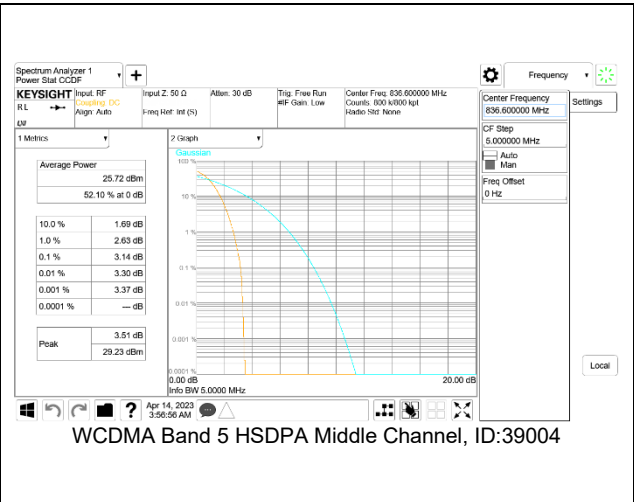
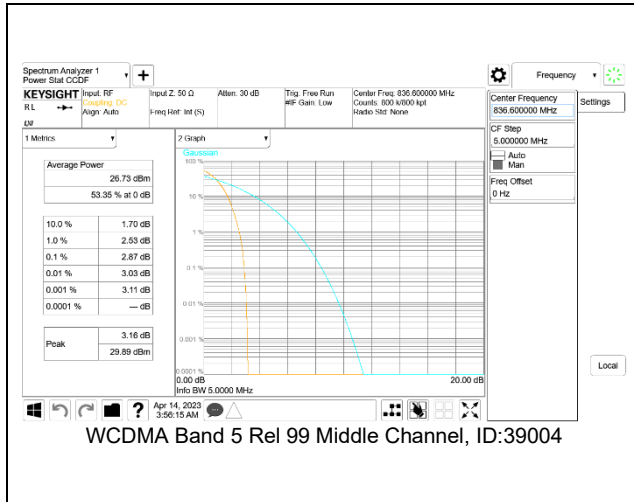
Ant 1 was used to measure as the worst case. The results from all CCDF plots are passed with 13dB peak-to-average power ratio criteria.

<b>Test Engineer ID:</b>	39004	<b>Test Date:</b>	4/14/2023
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### 9.5.1 GSM



9.5.2 WCDMA



## 10. RADIATED TEST RESULTS

### Radiated measurement using the Field Strength Method

Using the test configuration shown in Figure 6 below, We measure the radiated emissions directly from the EUT and convert the measured field strength or received power to ERP or EIRP, as required, for comparison to the applicable limits. As stated in 5.5.1 of ANSI C63.26-2015, the field strength measurement method using a test site validated to the requirements of ANSI C63.4 is an alternative to the substitution measurement method.

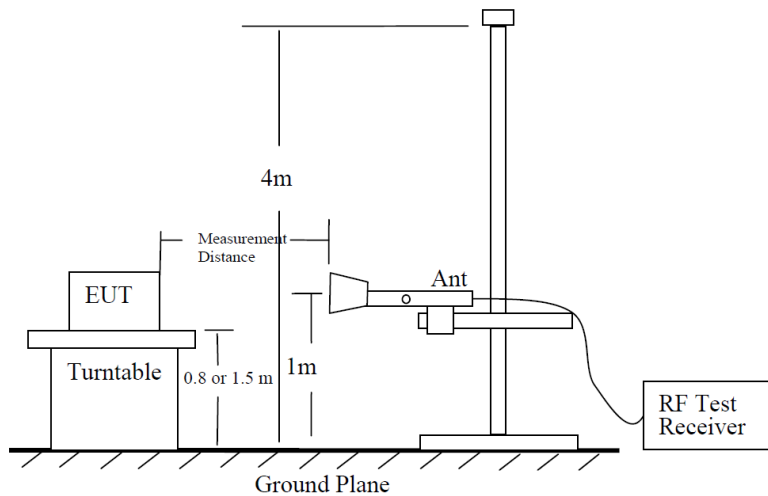


Figure 6—Test site-up for radiated ERP and/or EIRP measurements

### Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a)  $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$ .
- b)  $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$ .
- c)  $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$ ; where D is the measurement distance (in the far field region) in m.
- d)  $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$ ; where D is the measurement distance (in the far field region) in m.

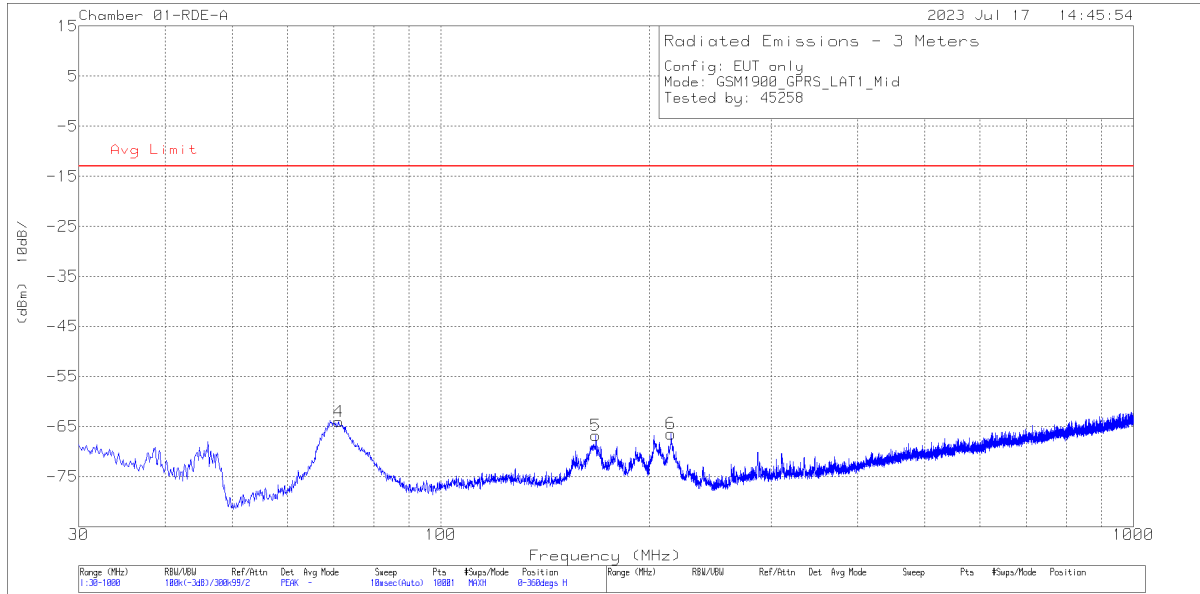
So, from d)

The measuring distance is usually at 3m, then  $20 \cdot \log(3) = 9.5424$

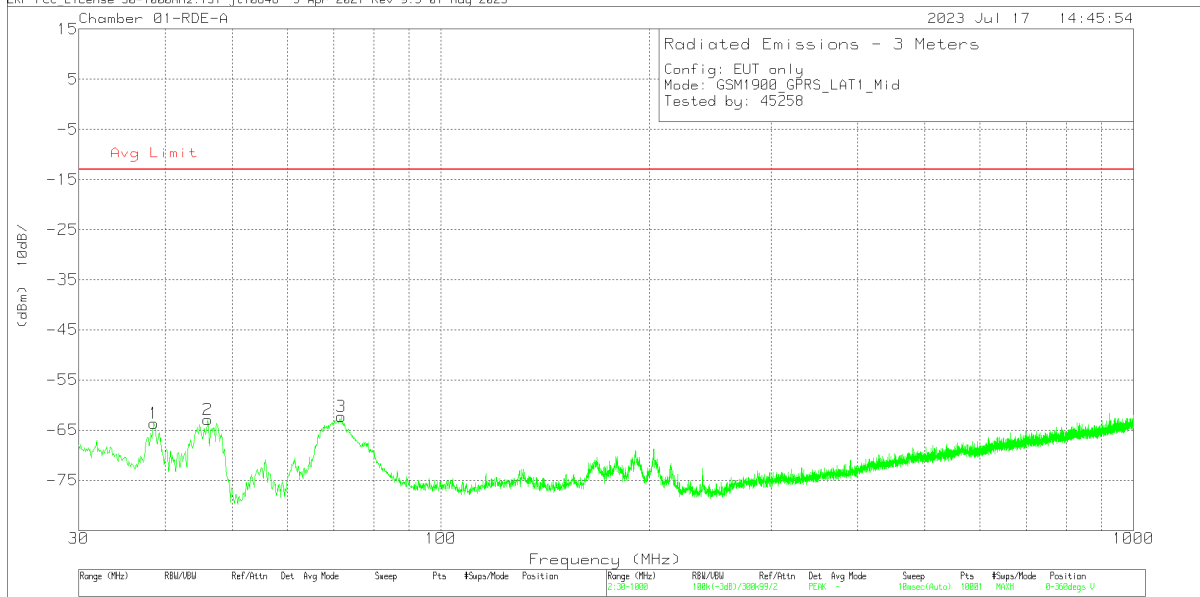
Then,  $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

Note: Confidence check of each chamber is performed daily to see if any degradation from expected/normal reading reference data. Ambient check of each chamber is performed monthly.

**Example Plot Below 1GHz**



ERP FCC License 30-1000MHz.TST jt10646 5 Apr 2021 Rev 9.5 01 May 2023

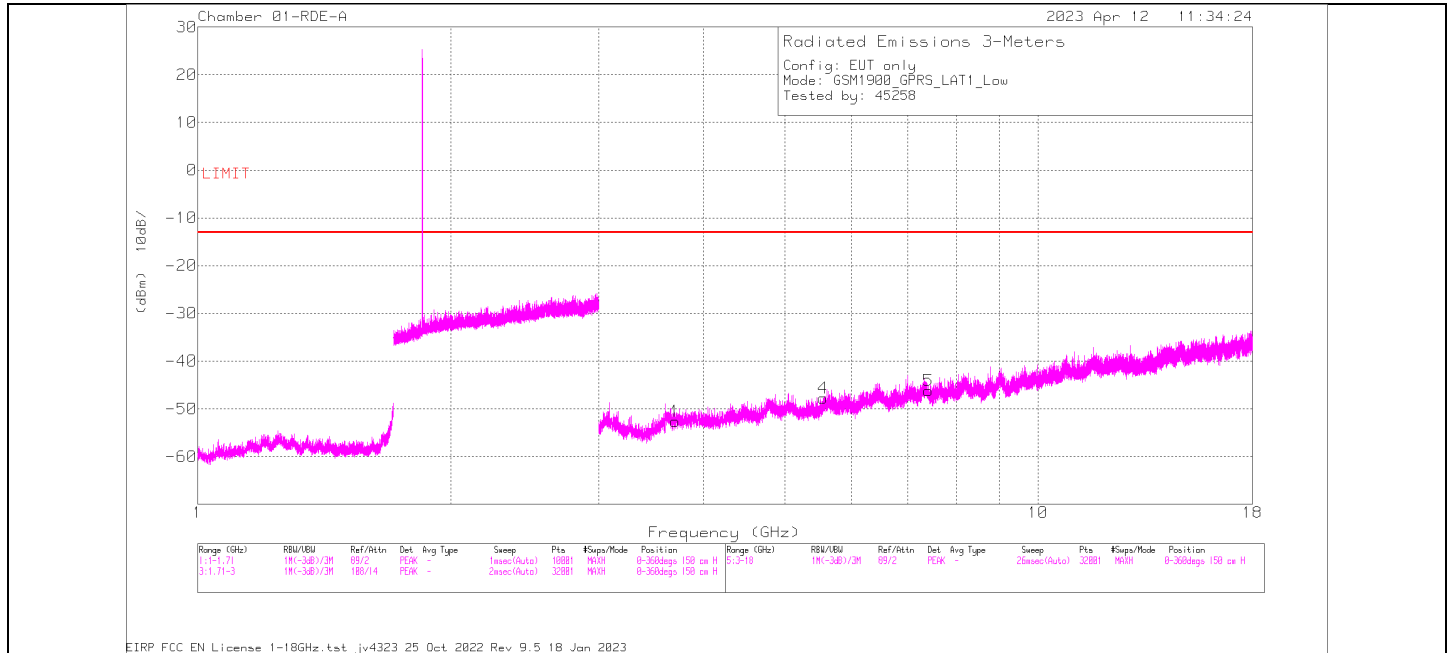


ERP FCC License 30-1000MHz.TST jt10646 5 Apr 2021 Rev 9.5 01 May 2023

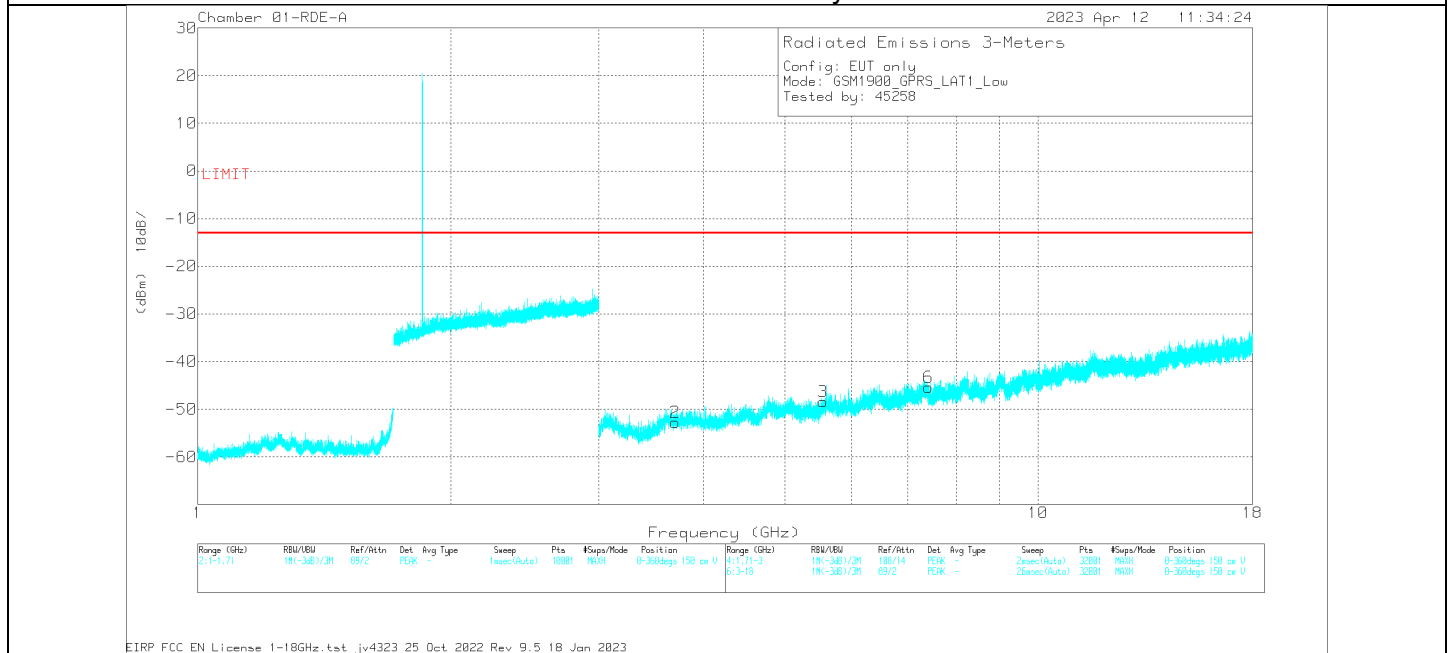
**Trace Markers**

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	232075 ACF (dB/m)	Amp/Cbl (dB)	EIRP CF	Corrected Reading (dBm)	Avg Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	38.536	37.98	Pk	20.7	-27.1	-95.2	-63.62	-13	-50.62	0-360	101	V
2	46.102	43.69	Pk	15.6	-27	-95.2	-62.91	-13	-49.91	0-360	101	V
4	71.225	44	Pk	13.9	-26.7	-95.2	-64	-13	-51	0-360	298	H
3	71.807	45.75	Pk	13.9	-26.7	-95.2	-62.25	-13	-49.25	0-360	101	V
5	167.449	36.07	Pk	17.8	-25.5	-95.2	-66.83	-13	-53.83	0-360	198	H
6	214.882	37.33	Pk	16.4	-25	-95.2	-66.47	-13	-53.47	0-360	98	H

**Example Plot Above 1GHz**



**Horizontal Polarity**



**Vertical Polarity**



**Trace Markers**

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
1	3.700313	34.71	Pk	33	-95.2	-25.12	-52.61	-13	-39.61	H
2	3.700781	34.67	Pk	32.9	-95.2	-25.09	-52.72	-13	-39.72	V
4	5.550938	34.31	Pk	34.6	-95.2	-21.44	-47.73	-13	-34.73	H
3	5.550938	33.57	Pk	34.6	-95.2	-21.44	-48.47	-13	-35.47	V
5	7.400625	31.88	Pk	35.5	-95.2	-18.4	-46.22	-13	-33.22	H
6	7.400625	32.74	Pk	35.5	-95.2	-18.4	-45.36	-13	-32.36	V

Pk - Peak detector

## 10.1. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 1

### RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53  
ISED: RSS132§5.5; RSS133§6.5 and RSS139§5.6

### LIMIT

FCC: §22.917(a), §24.238(a), §27.53 (h)  
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P)$  dB.

#### RSS132§5.5

Equipment shall meet the unwanted emission limits specified below:

- (i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated below the transmitter output power P (dBW) by at least  $43 + 10 \log(p)$  dB.
- (ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated below the transmitter output power P (dBW) by at least  $43 + 10 \log(p)$  dB. If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

#### RSS133§6.5.1

Equipment shall comply with the limits in (i) and (ii) below.

- (i) In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least  $43 + 10 \log_{10}(p(\text{watts}))$ .
- (ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least  $43 + 10 \log_{10}(p(\text{watts}))$ . If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

#### RSS139§5.6

- (i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block, Footnote2 which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least  $43 + 10 \log_{10} p(\text{watts})$  dB.
- (ii) After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least  $43 + 10 \log_{10} p(\text{watts})$  dB.

### TEST PROCEDURE

KDB 971168 D01

### RESULTS

**10.1.1. GSM 850**

**GPRS MODE**

Project #:	14523772
Date:	4/11/2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	GPRS 850
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 824.2 MHz</b>										
1.648311	36.5	Pk	28.5	0.7	-95.2	-29.01	-58.51	-13	-45.51	H
1.647333	36.15	Pk	28.5	0.7	-95.2	-28.94	-58.79	-13	-45.79	V
2.472578	35.58	Pk	32.4	0.5	-95.2	-27.59	-54.31	-13	-41.31	H
2.472578	35.19	Pk	32.4	0.5	-95.2	-27.59	-54.7	-13	-41.70	V
3.295867	33.98	Pk	32.8	0.8	-95.2	-26.09	-53.71	-13	-40.71	H
3.295867	35.11	Pk	32.8	0.8	-95.2	-26.09	-52.58	-13	-39.58	V
<b>Mid Channel, 836.6 MHz</b>										
1.674222	35.8	Pk	28.6	0.7	-95.2	-28.64	-58.74	-13	-45.74	H
1.673245	36.54	Pk	28.6	0.7	-95.2	-28.72	-58.08	-13	-45.08	V
2.509245	35.33	Pk	32.2	0.7	-95.2	-27.55	-54.52	-13	-41.52	H
2.508267	35.56	Pk	32.2	0.7	-95.2	-27.53	-54.27	-13	-41.27	V
3.346223	34.18	Pk	32.5	0.5	-95.2	-26.25	-54.27	-13	-41.27	V
3.347200	34.23	Pk	32.5	0.5	-95.2	-26.21	-54.18	-13	-41.18	H
<b>High Channel, 848.8 MHz</b>										
1.696711	35.84	Pk	28.9	0.6	-95.2	-28.68	-58.54	-13	-45.54	H
1.698178	35.91	Pk	28.9	0.6	-95.2	-28.79	-58.58	-13	-45.58	V
2.546400	33.59	Pk	32.4	0.6	-95.2	-27.32	-55.93	-13	-42.93	H
2.546400	34.46	Pk	32.4	0.6	-95.2	-27.32	-55.06	-13	-42.06	V
3.393645	34.97	Pk	32.5	0.6	-95.2	-25.89	-53.02	-13	-40.02	H
3.395112	33.37	Pk	32.5	0.6	-95.2	-25.91	-54.64	-13	-41.64	V

**EGPRS MODE**

Project #:	14523772
Date:	04-11-2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	EGPRS 850
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 824.2 MHz</b>										
1.648800	36.24	Pk	28.5	0.7	-95.2	-29.05	-58.81	-13	-45.81	H
1.648800	34.24	Pk	28.5	0.7	-95.2	-29.05	-60.81	-13	-47.81	V
2.472089	36.32	Pk	32.4	0.5	-95.2	-27.61	-53.59	-13	-40.59	H
2.472089	35.83	Pk	32.4	0.5	-95.2	-27.61	-54.08	-13	-41.08	V
3.296356	33.36	Pk	32.8	0.8	-95.2	-26.06	-54.3	-13	-41.3	H
3.296845	33.46	Pk	32.8	0.8	-95.2	-26.03	-54.17	-13	-41.17	V
<b>Mid Channel, 836.6 MHz</b>										
1.672267	36.16	Pk	28.6	0.7	-95.2	-28.81	-58.55	-13	-45.55	H
1.673245	35.8	Pk	28.6	0.7	-95.2	-28.72	-58.82	-13	-45.82	V
2.508756	34.32	Pk	32.2	0.7	-95.2	-27.55	-55.53	-13	-42.53	H
2.509245	34.84	Pk	32.2	0.7	-95.2	-27.55	-55.01	-13	-42.01	V
3.346223	35.65	Pk	32.5	0.5	-95.2	-26.25	-52.80	-13	-39.80	H
3.345734	33.85	Pk	32.5	0.5	-95.2	-26.27	-54.62	-13	-41.62	V
<b>High Channel, 848.8 MHz</b>										
1.697200	37.11	Pk	28.9	0.6	-95.2	-28.7	-57.29	-13	-44.29	H
1.697689	35.74	Pk	28.9	0.6	-95.2	-28.74	-58.70	-13	-45.7	V
2.545911	35.01	Pk	32.3	0.6	-95.2	-27.34	-54.63	-13	-41.63	H
2.545911	33.41	Pk	32.3	0.6	-95.2	-27.34	-56.23	-13	-43.23	V
3.395601	33.07	Pk	32.5	0.6	-95.2	-25.93	-54.96	-13	-41.96	H
3.396089	33.17	Pk	32.5	0.6	-95.2	-25.95	-54.88	-13	-41.88	V

**10.1.2. GSM 1900**

**GPRS MODE**

Project #:	14523772
Date:	04-12-2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	GPRS 1900
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBUV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1850.2MHz</b>									
3.700313	34.71	Pk	33	-95.2	-25.12	-52.61	-13	-39.61	H
3.700781	34.67	Pk	32.9	-95.2	-25.09	-52.72	-13	-39.72	V
5.550938	34.31	Pk	34.6	-95.2	-21.44	-47.73	-13	-34.73	H
5.550938	33.57	Pk	34.6	-95.2	-21.44	-48.47	-13	-35.47	V
7.400625	31.88	Pk	35.5	-95.2	-18.40	-46.22	-13	-33.22	H
7.400625	32.74	Pk	35.5	-95.2	-18.40	-45.36	-13	-32.36	V
<b>Mid Channel, 1880MHz</b>									
3.761250	37.07	Pk	32.9	-95.2	-24.89	-50.12	-13	-37.12	H
3.761719	36.59	Pk	32.9	-95.2	-24.91	-50.62	-13	-37.62	V
5.640469	32.56	Pk	34.6	-95.2	-20.72	-48.76	-13	-35.76	H
5.640469	32.02	Pk	34.6	-95.2	-20.72	-49.30	-13	-36.3	V
7.520625	32.21	Pk	35.4	-95.2	-18.63	-46.22	-13	-33.22	H
7.520625	31.5	Pk	35.4	-95.2	-18.63	-46.93	-13	-33.93	V
<b>High Channel, 1909.8MHz</b>									
3.818438	35.12	Pk	32.9	-95.2	-25.04	-52.22	-13	-39.22	H
3.818906	34.17	Pk	32.9	-95.2	-25.03	-53.16	-13	-40.16	V
5.727188	33.11	Pk	34.7	-95.2	-21.69	-49.08	-13	-36.08	H
5.727188	33.38	Pk	34.7	-95.2	-21.69	-48.81	-13	-35.81	V
7.639219	31.4	Pk	35.6	-95.2	-17.73	-45.93	-13	-32.93	H
7.639219	31.9	Pk	35.6	-95.2	-17.73	-45.43	-13	-32.43	V

**EGPRS MODE**

Project #:	14523772
Date:	04-12-2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	EGPRS 1900
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1850.2MHz</b>									
3.700313	35.06	Pk	33	-95.2	-25.12	-52.26	-13	-39.26	H
3.700313	35.67	Pk	33	-95.2	-25.12	-51.65	-13	-38.65	V
5.549531	33.67	Pk	34.7	-95.2	-21.46	-48.29	-13	-35.29	H
5.550469	32.93	Pk	34.6	-95.2	-21.43	-49.1	-13	-36.10	V
7.400156	32.3	Pk	35.5	-95.2	-18.38	-45.78	-13	-32.78	H
7.400156	31.32	Pk	35.5	-95.2	-18.38	-46.76	-13	-33.76	V
<b>Mid Channel, 1880MHz</b>									
3.76125	36.07	Pk	32.9	-95.2	-24.89	-51.12	-13	-38.12	H
3.760313	35.2	Pk	32.9	-95.2	-24.87	-51.97	-13	-38.97	V
5.640938	33.05	Pk	34.6	-95.2	-20.71	-48.26	-13	-35.26	H
5.638594	33.36	Pk	34.6	-95.2	-20.69	-47.93	-13	-34.93	V
7.521094	33.01	Pk	35.4	-95.2	-18.63	-45.42	-13	-32.42	H
7.520625	30.82	Pk	35.4	-95.2	-18.63	-47.61	-13	-34.61	V
<b>High Channel, 1909.8MHz</b>									
3.819375	37.19	Pk	32.9	-95.2	-25.05	-50.16	-13	-37.16	H
3.819375	36.17	Pk	32.9	-95.2	-25.05	-51.18	-13	-38.18	V
5.730000	34.15	Pk	34.8	-95.2	-21.67	-47.92	-13	-34.92	H
5.730000	34.23	Pk	34.8	-95.2	-21.67	-47.84	-13	-34.84	V
7.639688	31.34	Pk	35.6	-95.2	-17.73	-45.99	-13	-32.99	H
7.640156	31.54	Pk	35.6	-95.2	-17.73	-45.79	-13	-32.79	V

### 10.1.3. WCDMA BAND 5

#### REL 99 MODE

Project #:	14523772
Date:	4/24/2023
Test Engineer:	27700
Configuration:	EUT Only
Mode:	REL 99 Band 5
Chamber #:	04-RDE-T

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 826.4MHz</b>									
1.632875	58.71	Pk	28.2	-95.2	-46.68	-54.97	-13	-41.97	H
1.653092	58	Pk	28.5	-95.2	-46.88	-55.58	-13	-42.58	V
2.483288	57.83	Pk	32.2	-95.2	-46.38	-51.55	-13	-38.55	H
* 2.483951	57.71	Pk	32.2	-95.2	-46.38	-51.67	-13	-38.67	V
3.321200	55.88	Pk	32.7	-95.2	-44.23	-50.85	-13	-37.85	H
3.305846	56.94	Pk	32.7	-95.2	-44.26	-49.82	-13	-36.82	V
<b>Mid Channel, 836.6 MHz</b>									
* 1.670099	59.01	Pk	28.7	-95.2	-46.7	-54.19	-13	-41.19	H
* 1.676586	58.68	Pk	28.7	-95.2	-46.8	-54.62	-13	-41.62	V
2.504598	57.55	Pk	32.3	-95.2	-46.21	-51.56	-13	-38.56	H
2.507552	57.59	Pk	32.3	-95.2	-46.31	-51.62	-13	-38.62	V
3.340450	55.53	Pk	32.7	-95.2	-44.03	-51.00	-13	-38.00	H
* 3.345960	55.37	Pk	32.7	-95.2	-44.05	-51.18	-13	-38.18	V
<b>High Channel, 848.6 MHz</b>									
* 1.694124	57.11	Pk	28.9	-95.2	-46.71	-55.9	-13	-42.90	H
* 1.683569	58.47	Pk	28.8	-95.2	-46.76	-54.69	-13	-41.69	V
2.551599	57.43	Pk	32.3	-95.2	-46.72	-52.19	-13	-39.19	H
2.550992	58.84	Pk	32.3	-95.2	-46.7	-50.76	-13	-37.76	V
3.382218	54.41	Pk	32.7	-95.2	-44.08	-52.17	-13	-39.17	H
3.389727	55.13	Pk	32.7	-95.2	-44.18	-51.55	-13	-38.55	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

**HSDPA MODE**

Project #:	14523772
Date:	4/24/2023
Test Engineer:	27700
Configuration:	EUT Only
Mode:	HSDPA Band 5
Chamber #:	04-RDE-T

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 826.4MHz</b>									
1.653551	58.22	Pk	28.5	-95.2	-47.39	-55.87	-13	-42.87	H
1.651938	56.91	Pk	28.5	-95.2	-46.84	-56.63	-13	-43.63	V
2.481573	58.05	Pk	32.2	-95.2	-47.49	-52.44	-13	-39.44	H
2.477566	57.46	Pk	32.2	-95.2	-46.34	-51.88	-13	-38.88	V
3.305327	54.19	Pk	32.7	-95.2	-45.05	-53.36	-13	-40.36	H
3.308911	54.9	Pk	32.7	-95.2	-44.06	-51.66	-13	-38.66	V
<b>Mid Channel, 836.6 MHz</b>									
* 1.680850	57.09	Pk	28.8	-95.2	-46.68	-55.99	-13	-42.99	H
* 1.674100	56.66	Pk	28.7	-95.2	-46.65	-56.49	-13	-43.49	V
* 2.494000	55.93	Pk	32.3	-95.2	-46.27	-53.24	-13	-40.24	H
2.502100	56.64	Pk	32.3	-95.2	-46.19	-52.45	-13	-39.45	V
* 3.352150	53.57	Pk	32.7	-95.2	-44.07	-53.00	-13	-40.00	H
* 3.356650	53.73	Pk	32.7	-95.2	-43.79	-52.56	-13	-39.56	V
<b>High Channel, 848.6 MHz</b>									
* 1.685800	56.19	Pk	28.8	-95.2	-46.71	-56.92	-13	-43.92	H
* 1.693450	56.65	Pk	28.9	-95.2	-46.77	-56.42	-13	-43.42	V
2.524600	55.16	Pk	32.3	-95.2	-46.50	-54.24	-13	-41.24	H
2.541700	55.23	Pk	32.3	-95.2	-46.59	-54.26	-13	-41.26	V
3.372850	52.95	Pk	32.7	-95.2	-43.77	-53.32	-13	-40.32	H
3.378700	53.26	Pk	32.7	-95.2	-43.86	-53.10	-13	-40.10	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band



**10.1.4. WCDMA BAND 2**

**REL 99 MODE**

Project #:	14523772
Date:	4/19/2023
Test Engineer:	27700
Configuration:	EUT Only
Mode:	REL 99 Band 2
Chamber #:	04-RDE-T

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1852.4MHz</b>									
* 3.685000	54.08	Pk	33.2	-95.2	-44.83	-52.75	-13	-39.75	H
* 3.726500	54.25	Pk	33.2	-95.2	-44.60	-52.35	-13	-39.35	V
* 7.420000	51.75	Pk	35.7	-95.2	-43.17	-50.92	-13	-37.92	H
* 7.412000	51.72	Pk	35.7	-95.2	-43.25	-51.03	-13	-38.03	V
5.561500	51.81	Pk	34.4	-95.2	-44.40	-53.39	-13	-40.39	H
5.574500	52.3	Pk	34.4	-95.2	-44.30	-52.80	-13	-39.8	V
<b>Mid Channel, 1880MHz</b>									
* 3.777000	53.23	Pk	33.3	-95.2	-44.53	-53.20	-13	-40.20	H
* 3.761500	52.83	Pk	33.3	-95.2	-44.55	-53.62	-13	-40.62	V
* 7.549000	52.41	Pk	35.8	-95.2	-42.90	-49.89	-13	-36.89	H
* 7.513000	51.25	Pk	35.7	-95.2	-42.88	-51.13	-13	-38.13	V
5.626500	52.24	Pk	34.5	-95.2	-44.09	-52.55	-13	-39.55	H
5.638500	52.31	Pk	34.5	-95.2	-44.03	-52.42	-13	-39.42	V
<b>High Channel, 1907.6MHz</b>									
* 3.808000	52.98	Pk	33.4	-95.2	-44.52	-53.34	-13	-40.34	H
* 3.800500	52.72	Pk	33.4	-95.2	-44.31	-53.39	-13	-40.39	V
5.699500	52.83	Pk	34.5	-95.2	-44.04	-51.91	-13	-38.91	H
5.719000	54.46	Pk	34.6	-95.2	-44.11	-50.25	-13	-37.25	V
* 7.663000	52.23	Pk	35.8	-95.2	-42.78	-49.95	-13	-36.95	H
* 7.640000	51.87	Pk	35.8	-95.2	-42.64	-50.17	-13	-37.17	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

**HSDPA MODE**

Project #:	14523772
Date:	4/19/2023
Test Engineer:	27700
Configuration:	EUT Only
Mode:	HSDPA Band 2
Chamber #:	04-RDE-T

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1852.4MHz</b>									
* 3.702000	54.34	Pk	33.2	-95.2	-44.68	-52.34	-13	-39.34	H
* 3.689500	54.06	Pk	33.2	-95.2	-44.75	-52.69	-13	-39.69	V
5.592000	52.8	Pk	34.4	-95.2	-44.26	-52.26	-13	-39.26	H
5.579000	52.57	Pk	34.4	-95.2	-44.24	-52.47	-13	-39.47	V
* 7.386500	52.85	Pk	35.7	-95.2	-43.36	-50.01	-13	-37.01	H
* 7.391000	52.07	Pk	35.7	-95.2	-43.26	-50.69	-13	-37.69	V
<b>Mid Channel, 1880MHz</b>									
* 3.785000	53.61	Pk	33.3	-95.2	-44.4	-52.69	-13	-39.69	H
* 3.777000	53.74	Pk	33.3	-95.2	-44.53	-52.69	-13	-39.69	V
5.654000	53.38	Pk	34.5	-95.2	-44.03	-51.35	-13	-38.35	V
5.663000	52.1	Pk	34.5	-95.2	-44.01	-52.61	-13	-39.61	H
* 7.527000	51.62	Pk	35.7	-95.2	-42.85	-50.73	-13	-37.73	H
* 7.533000	52.08	Pk	35.7	-95.2	-42.92	-50.34	-13	-37.34	V
<b>High Channel, 1907.6MHz</b>									
* 3.792500	52.69	Pk	33.3	-95.2	-44.49	-53.7	-13	-40.7	H
* 3.819500	52.77	Pk	33.4	-95.2	-44.68	-53.71	-13	-40.71	V
5.726500	51.96	Pk	34.6	-95.2	-44.1	-52.74	-13	-39.74	H
5.739500	52.28	Pk	34.6	-95.2	-44.07	-52.39	-13	-39.39	V
* 7.634000	51.51	Pk	35.8	-95.2	-42.8	-50.69	-13	-37.69	H
* 7.623000	52.1	Pk	35.8	-95.2	-42.78	-50.08	-13	-37.08	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

### 10.1.5. WCDMA BAND 4

#### REL 99 MODE

Project #:	14523772
Date:	4/19/2023
Test Engineer:	27700
Configuration:	EUT Only
Mode:	REL 99 Band 4
Chamber #:	04-RDE-T

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1712.4MHz</b>									
3.399000	53.8	Pk	32.7	-95.2	-44.09	-52.79	-13	-39.79	H
3.436500	53.12	Pk	32.7	-95.2	-43.83	-53.21	-13	-40.21	V
* 5.126000	53.61	Pk	34.2	-95.2	-45.43	-52.82	-13	-39.82	H
* 5.145000	53.03	Pk	34.2	-95.2	-45.31	-53.28	-13	-40.28	V
6.866500	53.08	Pk	35.6	-95.2	-44.37	-50.89	-13	-37.89	H
6.856500	52.7	Pk	35.6	-95.2	-44.4	-51.30	-13	-38.3	V
<b>Mid Channel, 1732.6MHz</b>									
3.454000	53.43	Pk	32.8	-95.2	-43.84	-52.81	-13	-39.81	H
3.484000	53.82	Pk	32.8	-95.2	-44.02	-52.6	-13	-39.60	V
5.176000	53.12	Pk	34.2	-95.2	-45.44	-53.32	-13	-40.32	H
5.179000	53.94	Pk	34.2	-95.2	-45.41	-52.47	-13	-39.47	V
6.923500	52.91	Pk	35.6	-95.2	-44.31	-51.00	-13	-38.00	H
6.952000	52.67	Pk	35.6	-95.2	-44.24	-51.17	-13	-38.17	V
<b>High Channel, 1752.6MHz</b>									
3.483	53.09	Pk	32.8	-95.2	-44.05	-53.36	-13	-40.36	H
3.494	53.41	Pk	32.8	-95.2	-44.02	-53.01	-13	-40.01	V
5.256	54.04	Pk	34.4	-95.2	-45.23	-51.99	-13	-38.99	H
5.274	53.25	Pk	34.4	-95.2	-45.21	-52.76	-13	-39.76	V
7.0225	52.07	Pk	35.6	-95.2	-43.98	-51.51	-13	-38.51	H
7.0175	52.48	Pk	35.6	-95.2	-44.06	-51.18	-13	-38.18	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

**HSDPA MODE**

Project #:	14523772
Date:	4/19/2023
Test Engineer:	27700
Configuration:	EUT Only
Mode:	HSDPA Band 4
Chamber #:	04-RDE-T

Frequency (GHz)	Meter Reading (dBuV)	Det	226673 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1712.4MHz</b>									
* 5.125000	54.17	Pk	34.2	-95.2	-45.41	-52.24	-13	-39.24	H
* 5.123500	53.43	Pk	34.2	-95.2	-45.41	-52.98	-13	-39.98	V
3.412500	53.77	Pk	32.7	-95.2	-44.09	-52.82	-13	-39.82	H
3.446500	53.25	Pk	32.8	-95.2	-43.81	-52.96	-13	-39.96	V
6.840000	53.04	Pk	35.6	-95.2	-44.38	-50.94	-13	-37.94	H
6.822000	53.38	Pk	35.6	-95.2	-44.37	-50.59	-13	-37.59	V
<b>Mid Channel, 1732.6MHz</b>									
3.442500	53.2	Pk	32.8	-95.2	-43.94	-53.14	-13	-40.14	H
3.448500	52.93	Pk	32.8	-95.2	-43.85	-53.32	-13	-40.32	V
5.200500	53.08	Pk	34.3	-95.2	-45.37	-53.19	-13	-40.19	H
5.177500	52.97	Pk	34.2	-95.2	-45.4	-53.43	-13	-40.43	V
6.951000	52.2	Pk	35.6	-95.2	-44.27	-51.67	-13	-38.67	H
6.938500	52.81	Pk	35.6	-95.2	-44.28	-51.07	-13	-38.07	V
<b>High Channel, 1752.6MHz</b>									
3.486000	52.92	Pk	32.8	-95.2	-44.05	-53.53	-13	-40.53	H
3.491500	52.78	Pk	32.8	-95.2	-44.04	-53.66	-13	-40.66	V
5.238500	53.68	Pk	34.3	-95.2	-45.36	-52.58	-13	-39.58	H
5.246000	53.78	Pk	34.4	-95.2	-45.29	-52.31	-13	-39.31	V
7.015000	52.42	Pk	35.6	-95.2	-44.06	-51.24	-13	-38.24	H
6.993000	52.63	Pk	35.6	-95.2	-44.16	-51.13	-13	-38.13	V

\* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

## 10.2. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 2

### 10.2.1. GSM 850

#### GPRS MODE

Project #:	14523772
Date:	5/11/2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	GPRS 850
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 824.2 MHz</b>										
1.648311	36.59	Pk	28.5	0.7	-95.2	-29.01	-58.42	-13	-45.42	H
1.648311	37.66	Pk	28.5	0.7	-95.2	-29.01	-57.35	-13	-44.35	V
2.472089	38.34	Pk	32.4	0.5	-95.2	-27.61	-51.57	-13	-38.57	H
2.472578	37.62	Pk	32.4	0.5	-95.2	-27.59	-52.27	-13	-39.27	V
3.296845	33.53	Pk	32.8	0.8	-95.2	-26.03	-54.10	-13	-41.10	H
3.296845	34.2	Pk	32.8	0.8	-95.2	-26.03	-53.43	-13	-40.43	V
<b>Mid Channel, 836.6 MHz</b>										
1.672267	36.54	Pk	28.6	0.7	-95.2	-28.81	-58.17	-13	-45.17	H
1.673245	36.74	Pk	28.6	0.7	-95.2	-28.72	-57.88	-13	-44.88	V
2.509245	34.38	Pk	32.2	0.7	-95.2	-27.55	-55.47	-13	-42.47	H
2.508756	35.42	Pk	32.2	0.7	-95.2	-27.55	-54.43	-13	-41.43	V
3.346223	34.94	Pk	32.5	0.5	-95.2	-26.25	-53.51	-13	-40.51	H
3.346712	34.72	Pk	32.5	0.5	-95.2	-26.23	-53.71	-13	-40.71	V
<b>High Channel, 848.8 MHz</b>										
1.697689	39.44	Pk	28.9	0.6	-95.2	-28.74	-55.00	-13	-42.00	H
1.698178	37.98	Pk	28.9	0.6	-95.2	-28.79	-56.51	-13	-43.51	V
2.546400	37.36	Pk	32.4	0.6	-95.2	-27.32	-52.16	-13	-39.16	H
2.546400	36.97	Pk	32.4	0.6	-95.2	-27.32	-52.55	-13	-39.55	V
3.396089	35.49	Pk	32.5	0.6	-95.2	-25.95	-52.56	-13	-39.56	H
3.395601	33.8	Pk	32.5	0.6	-95.2	-25.93	-54.23	-13	-41.23	V

**EGPRS MODE**

Project #:	14523772
Date:	5/11/2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	EGPRS 850
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 824.2 MHz</b>										
1.648311	35.28	Pk	28.5	0.7	-95.2	-29.01	-59.73	-13	-46.73	H
1.648311	37.75	Pk	28.5	0.7	-95.2	-29.01	-57.26	-13	-44.26	V
2.471845	35.09	Pk	32.4	0.5	-95.2	-27.61	-54.82	-13	-41.82	H
2.472089	34.17	Pk	32.4	0.5	-95.2	-27.61	-55.74	-13	-42.74	V
3.296845	33.87	Pk	32.8	0.8	-95.2	-26.03	-53.76	-13	-40.76	H
3.296845	35.16	Pk	32.8	0.8	-95.2	-26.03	-52.47	-13	-39.47	V
<b>Mid Channel, 836.6 MHz</b>										
1.672267	36.91	Pk	28.6	0.7	-95.2	-28.81	-57.80	-13	-44.80	H
1.673245	36.17	Pk	28.6	0.7	-95.2	-28.72	-58.45	-13	-45.45	V
2.509245	34.5	Pk	32.2	0.7	-95.2	-27.55	-55.35	-13	-42.35	H
2.509245	34.95	Pk	32.2	0.7	-95.2	-27.55	-54.90	-13	-41.90	V
3.346712	35.37	Pk	32.5	0.5	-95.2	-26.23	-53.06	-13	-40.06	H
3.347200	35.76	Pk	32.5	0.5	-95.2	-26.21	-52.65	-13	-39.65	V
<b>High Channel, 848.8 MHz</b>										
1.697689	37.61	Pk	28.9	0.6	-95.2	-28.74	-56.83	-13	-43.83	H
1.697689	35.86	Pk	28.9	0.6	-95.2	-28.74	-58.58	-13	-45.58	V
2.546400	34.63	Pk	32.4	0.6	-95.2	-27.32	-54.89	-13	-41.89	H
2.546400	34.02	Pk	32.4	0.6	-95.2	-27.32	-55.50	-13	-42.50	V
3.396089	34.44	Pk	32.5	0.6	-95.2	-25.95	-53.61	-13	-40.61	H
3.396578	34.57	Pk	32.5	0.6	-95.2	-25.94	-53.47	-13	-40.47	V

### 10.2.2. GSM 1900

#### GPRS MODE

Project #:	14523772
Date:	5/9/2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	GPRS 1900
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBUV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1850.2MHz</b>									
3.699844	33.65	Pk	33	-95.2	-25.14	-53.69	-13	-40.69	H
3.700781	33.35	Pk	32.9	-95.2	-25.09	-54.04	-13	-41.04	V
5.550469	31.55	Pk	34.6	-95.2	-21.43	-50.48	-13	-37.48	H
5.550469	31.06	Pk	34.6	-95.2	-21.43	-50.97	-13	-37.97	V
7.400625	31.11	Pk	35.5	-95.2	-18.4	-46.99	-13	-33.99	H
7.400625	30.29	Pk	35.5	-95.2	-18.4	-47.81	-13	-34.81	V
<b>Mid Channel, 1880MHz</b>									
3.760313	33.61	Pk	32.9	-95.2	-24.87	-53.56	-13	-40.56	H
3.760313	32.85	Pk	32.9	-95.2	-24.87	-54.32	-13	-41.32	V
5.64	30.48	Pk	34.6	-95.2	-20.72	-50.84	-13	-37.84	V
5.640469	31	Pk	34.6	-95.2	-20.72	-50.32	-13	-37.32	H
7.520156	31.23	Pk	35.4	-95.2	-18.64	-47.21	-13	-34.21	V
7.520625	30.5	Pk	35.4	-95.2	-18.63	-47.93	-13	-34.93	H
<b>High Channel, 1909.8MHz</b>									
3.819375	33.61	Pk	32.9	-95.2	-25.05	-53.74	-13	-40.74	H
3.819375	35.24	Pk	32.9	-95.2	-25.05	-52.11	-13	-39.11	V
5.729531	31.82	Pk	34.8	-95.2	-21.69	-50.27	-13	-37.27	H
5.729531	31.68	Pk	34.8	-95.2	-21.69	-50.41	-13	-37.41	V
7.639219	29.42	Pk	35.6	-95.2	-17.73	-47.91	-13	-34.91	H
7.639219	31.26	Pk	35.6	-95.2	-17.73	-46.07	-13	-33.07	V

**EGPRS MODE**

Project #:	14523772
Date:	5/12/2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	EGPRS 1900
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1850.2MHz</b>									
3.700313	35.27	Pk	33	-95.2	-25.12	-52.05	-13	-39.05	H
3.700781	34.3	Pk	32.9	-95.2	-25.09	-53.09	-13	-40.09	V
5.550938	33.45	Pk	34.6	-95.2	-21.44	-48.59	-13	-35.59	H
5.549063	32.68	Pk	34.7	-95.2	-21.49	-49.31	-13	-36.31	V
7.400156	32.84	Pk	35.5	-95.2	-18.38	-45.24	-13	-32.24	H
7.400625	30.96	Pk	35.5	-95.2	-18.4	-47.14	-13	-34.14	V
<b>Mid Channel, 1880MHz</b>									
3.760781	35.3	Pk	32.9	-95.2	-24.88	-51.88	-13	-38.88	H
3.760313	35.37	Pk	32.9	-95.2	-24.87	-51.80	-13	-38.80	V
5.640000	32.88	Pk	34.6	-95.2	-20.72	-48.44	-13	-35.44	H
5.640000	33.17	Pk	34.6	-95.2	-20.72	-48.15	-13	-35.15	V
7.519688	31.43	Pk	35.4	-95.2	-18.66	-47.03	-13	-34.03	H
7.520156	31.31	Pk	35.4	-95.2	-18.64	-47.13	-13	-34.13	V
<b>High Channel, 1909.8MHz</b>									
3.818906	36.42	Pk	32.9	-95.2	-25.03	-50.91	-13	-37.91	H
3.818906	37.27	Pk	32.9	-95.2	-25.03	-50.06	-13	-37.06	V
5.729531	32.9	Pk	34.8	-95.2	-21.69	-49.19	-13	-36.19	H
5.729531	33.98	Pk	34.8	-95.2	-21.69	-48.11	-13	-35.11	V
7.640625	32.16	Pk	35.6	-95.2	-17.73	-45.17	-13	-32.17	H
7.640625	31.08	Pk	35.6	-95.2	-17.73	-46.25	-13	-33.25	V



### 10.2.3. WCDMA BAND 5

#### REL 99 MODE

Project #:	14523772
Date:	5/1/2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	REL 99 Band 5
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 826.4MHz</b>										
1.652222	38	Pk	28.4	.8	-95.2	-28.9	-56.90	-13	-43.9	H
1.652222	36.88	Pk	28.4	.8	-95.2	-28.9	-58.02	-13	-45.02	V
2.479911	37.27	Pk	32.3	.5	-95.2	-27.58	-52.71	-13	-39.71	H
2.479911	36.23	Pk	32.3	.5	-95.2	-27.58	-53.75	-13	-40.75	V
3.305156	34.82	Pk	32.7	.7	-95.2	-26.06	-53.04	-13	-40.04	H
3.305156	35.77	Pk	32.7	.7	-95.2	-26.06	-52.09	-13	-39.09	V
<b>Mid Channel, 836.6 MHz</b>										
1.673733	37.23	Pk	28.6	0.7	-95.2	-28.67	-57.34	-13	-44.34	H
1.673733	36.31	Pk	28.6	0.7	-95.2	-28.67	-58.26	-13	-45.26	V
2.509245	35.96	Pk	32.2	0.7	-95.2	-27.55	-53.89	-13	-40.89	H
2.508756	37.03	Pk	32.2	0.7	-95.2	-27.55	-52.82	-13	-39.82	V
3.346712	34.78	Pk	32.5	0.5	-95.2	-26.23	-53.65	-13	-40.65	H
3.346223	33.73	Pk	32.5	0.5	-95.2	-26.25	-54.72	-13	-41.72	V
<b>High Channel, 848.8 MHz</b>										
1.693289	37.55	Pk	28.8	0.7	-95.2	-28.87	-57.02	-13	-44.02	H
1.693289	37.11	Pk	28.8	0.7	-95.2	-28.87	-57.46	-13	-44.46	V
2.539556	35.6	Pk	32.2	0.7	-95.2	-27.37	-54.07	-13	-41.07	H
2.539067	34.99	Pk	32.2	0.7	-95.2	-27.4	-54.71	-13	-41.71	V
3.386312	33.7	Pk	32.4	0.6	-95.2	-26.00	-54.50	-13	-41.50	H
3.386801	35.14	Pk	32.4	0.6	-95.2	-26.02	-53.08	-13	-40.08	V

**HSDPA MODE**

Project #:	14523772
Date:	5/1/2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	HSDPA Band 5
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	HPF 1.2GHz T1737 1-18GHz	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 826.4MHz</b>										
1.652222	36.49	Pk	28.4	0.8	-95.2	-28.9	-58.41	-13	-45.41	H
1.652222	37.52	Pk	28.4	0.8	-95.2	-28.9	-57.38	-13	-44.38	V
2.480889	38.29	Pk	32.3	0.5	-95.2	-27.57	-51.68	-13	-38.68	H
2.479423	36.92	Pk	32.3	0.5	-95.2	-27.57	-53.05	-13	-40.05	V
3.305156	34.87	Pk	32.7	0.7	-95.2	-26.06	-52.99	-13	-39.99	H
3.305645	34.91	Pk	32.7	0.7	-95.2	-26.09	-52.98	-13	-39.98	V
<b>Mid Channel, 836.6 MHz</b>										
1.673733	36.94	Pk	28.6	0.7	-95.2	-28.67	-57.63	-13	-44.63	H
1.673733	38.61	Pk	28.6	0.7	-95.2	-28.67	-55.96	-13	-42.96	V
2.509734	36.27	Pk	32.2	0.7	-95.2	-27.54	-53.57	-13	-40.57	H
2.509245	37.39	Pk	32.2	0.7	-95.2	-27.55	-52.46	-13	-39.46	V
3.346223	34.52	Pk	32.5	0.5	-95.2	-26.25	-53.93	-13	-40.93	H
3.346223	34.89	Pk	32.5	0.5	-95.2	-26.25	-53.56	-13	-40.56	V
<b>High Channel, 848.8 MHz</b>										
1.6928	36.95	Pk	28.8	0.7	-95.2	-28.88	-57.63	-13	-44.63	H
1.693289	37.49	Pk	28.8	0.7	-95.2	-28.87	-57.08	-13	-44.08	V
2.536134	40.59	Pk	32.2	0.7	-95.2	-27.36	-49.07	-13	-36.07	H
2.539556	36.48	Pk	32.2	0.7	-95.2	-27.37	-53.19	-13	-40.19	V
3.386312	33.27	Pk	32.4	0.6	-95.2	-26.00	-54.93	-13	-41.93	H
3.386312	34.07	Pk	32.4	0.6	-95.2	-26.00	-54.13	-13	-41.13	V

### 10.2.4. WCDMA BAND 2

#### REL 99 MODE

Project #:	14523772
Date:	05/1/2023
Test Engineer:	27700
Configuration:	EUT Only
Mode:	REL 99 Band 2
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1852.4MHz</b>									
3.713500	54.17	Pk	32.8	-95.2	-45.72	-53.95	-13	-40.95	H
3.693000	54.49	Pk	32.9	-95.2	-45.88	-53.69	-13	-40.69	V
5.546000	54.59	Pk	34.6	-95.2	-45.75	-51.76	-13	-38.76	H
5.542000	54.4	Pk	34.6	-95.2	-45.81	-52.01	-13	-39.01	V
7.423500	52.63	Pk	35.4	-95.2	-44.40	-51.57	-13	-38.57	H
7.383000	52.64	Pk	35.5	-95.2	-44.37	-51.43	-13	-38.43	V
<b>Mid Channel, 1880MHz</b>									
3.772000	55.66	Pk	32.7	-95.2	-46.25	-53.09	-13	-40.09	H
3.752500	54.77	Pk	32.7	-95.2	-46.11	-53.84	-13	-40.84	V
5.637500	54.31	Pk	34.7	-95.2	-45.85	-52.04	-13	-39.04	H
5.641000	54.68	Pk	34.7	-95.2	-45.86	-51.68	-13	-38.68	V
7.546000	52.68	Pk	35.5	-95.2	-43.99	-51.01	-13	-38.01	H
7.493500	53.4	Pk	35.5	-95.2	-44.30	-50.60	-13	-37.60	V
<b>High Channel, 1907.6MHz</b>									
3.797000	56.12	Pk	32.8	-95.2	-46.44	-52.72	-13	-39.72	H
3.807500	54.92	Pk	32.8	-95.2	-46.32	-53.80	-13	-40.80	V
5.718500	53.86	Pk	34.8	-95.2	-45.70	-52.24	-13	-39.24	H
5.727500	53.87	Pk	34.9	-95.2	-45.69	-52.12	-13	-39.12	V
7.636000	53.68	Pk	35.6	-95.2	-44.18	-50.10	-13	-37.10	H
7.656000	53.17	Pk	35.6	-95.2	-44.09	-50.52	-13	-37.52	V

**HSDPA MODE**

Project #:	14523772
Date:	5/1/2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	HSDPA Band 2
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dBm)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1852.4MHz</b>									
3.704063	33.82	Pk	33	-95.2	-25.08	-53.46	-13	-40.46	H
3.704063	33.19	Pk	33	-95.2	-25.08	-54.09	-13	-41.09	V
5.557969	30.42	Pk	34.6	-95.2	-21.37	-51.55	-13	-38.55	H
5.558438	30.77	Pk	34.7	-95.2	-21.37	-51.10	-13	-38.10	V
7.409063	29.09	Pk	35.5	-95.2	-18.58	-49.19	-13	-36.19	H
7.409063	27.99	Pk	35.5	-95.2	-18.58	-50.29	-13	-37.29	V
<b>Mid Channel, 1880MHz</b>									
3.760313	32.52	Pk	32.9	-95.2	-24.87	-54.65	-13	-41.65	H
3.760313	33.4	Pk	32.9	-95.2	-24.87	-53.77	-13	-40.77	V
5.640469	31.22	Pk	34.6	-95.2	-20.72	-50.10	-13	-37.10	H
5.640469	31.48	Pk	34.6	-95.2	-20.72	-49.84	-13	-36.84	V
7.521563	30.81	Pk	35.5	-95.2	-18.62	-47.51	-13	-34.51	H
7.520625	29.02	Pk	35.4	-95.2	-18.63	-49.41	-13	-36.41	V
<b>High Channel, 1907.6MHz</b>									
3.815625	33.12	Pk	32.9	-95.2	-25.10	-54.28	-13	-41.28	H
3.815625	33.76	Pk	32.9	-95.2	-25.10	-53.64	-13	-40.64	V
5.722500	30.96	Pk	34.7	-95.2	-21.65	-51.19	-13	-38.19	H
5.722500	32.36	Pk	34.7	-95.2	-21.65	-49.79	-13	-36.79	V
7.630781	30.44	Pk	35.6	-95.2	-17.84	-47.00	-13	-34.00	H
7.630781	29.25	Pk	35.6	-95.2	-17.84	-48.19	-13	-35.19	V

**10.2.5. WCDMA BAND 4**

**REL 99 MODE**

Project #:	14523772
Date:	5/1/2023
Test Engineer:	27700
Configuration:	EUT Only
Mode:	REL 99 Band 4
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1712.4MHz</b>									
3.409	55.13	Pk	32.8	-95.2	-46.21	-53.48	-13	-40.48	H
3.4395	55.65	Pk	32.9	-95.2	-46.04	-52.69	-13	-39.69	V
5.105	54.04	Pk	34.2	-95.2	-46.29	-53.25	-13	-40.25	H
5.125	54.37	Pk	34.2	-95.2	-46.39	-53.02	-13	-40.02	V
6.8675	52.86	Pk	35.5	-95.2	-44.12	-50.96	-13	-37.96	H
6.851	53.18	Pk	35.5	-95.2	-43.9	-50.42	-13	-37.42	V
<b>Mid Channel, 1732.6MHz</b>									
3.4555	54.53	Pk	32.9	-95.2	-45.87	-53.64	-13	-40.64	H
3.4545	55.36	Pk	32.9	-95.2	-45.94	-52.88	-13	-39.88	V
5.2085	53.53	Pk	34.2	-95.2	-46.18	-53.65	-13	-40.65	H
5.186	54.28	Pk	34.2	-95.2	-46.2	-52.92	-13	-39.92	V
6.9175	53.3	Pk	35.5	-95.2	-44.66	-51.06	-13	-38.06	H
6.911	52.83	Pk	35.5	-95.2	-44.58	-51.45	-13	-38.45	V
<b>High Channel, 1752.6MHz</b>									
3.524000	54.59	Pk	32.9	-95.2	-46.28	-53.99	-13	-40.99	H
3.501500	55.79	Pk	32.9	-95.2	-46.07	-52.58	-13	-39.58	V
5.261500	54.24	Pk	34.1	-95.2	-46.05	-52.91	-13	-39.91	H
5.264000	54.30	Pk	34.1	-95.2	-46.18	-52.98	-13	-39.98	V
7.022500	53.52	Pk	35.5	-95.2	-44.73	-50.91	-13	-37.91	H
6.993000	53.66	Pk	35.5	-95.2	-44.77	-50.81	-13	-37.81	V

**HSDPA MODE**

Project #:	14523772
Date:	5/1/2023
Test Engineer:	27700
Configuration:	EUT Only
Mode:	HSDPA Band 4
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1712.4MHz</b>									
3.401500	55.9	Pk	32.8	-95.2	-46.2	-52.70	-13	-39.70	H
3.409500	56.32	Pk	32.8	-95.2	-46.21	-52.29	-13	-39.29	V
5.102500	54.15	Pk	34.2	-95.2	-46.26	-53.11	-13	-40.11	H
5.116500	53.98	Pk	34.2	-95.2	-46.31	-53.33	-13	-40.33	V
6.838000	52.72	Pk	35.5	-95.2	-43.96	-50.94	-13	-37.94	H
6.823500	53.16	Pk	35.5	-95.2	-44.13	-50.67	-13	-37.67	V
<b>Mid Channel, 1732.6MHz</b>									
3.491000	54.89	Pk	32.9	-95.2	-46.20	-53.61	-13	-40.61	H
3.483500	54.32	Pk	32.9	-95.2	-46.23	-54.21	-13	-41.21	V
5.195500	54.33	Pk	34.2	-95.2	-46.23	-52.90	-13	-39.90	H
5.175000	53.52	Pk	34.2	-95.2	-46.17	-53.65	-13	-40.65	V
6.924000	53.56	Pk	35.5	-95.2	-44.67	-50.81	-13	-37.81	H
6.932000	53.06	Pk	35.5	-95.2	-44.76	-51.40	-13	-38.40	V
<b>High Channel, 1752.6MHz</b>									
3.502500	53.94	Pk	32.9	-95.2	-46.03	-54.39	-13	-41.39	H
3.530500	54.92	Pk	32.9	-95.2	-46.35	-53.73	-13	-40.73	V
5.242500	54.27	Pk	34.1	-95.2	-46.19	-53.02	-13	-40.02	H
5.272500	54.2	Pk	34.1	-95.2	-46.22	-53.12	-13	-40.12	V
7.038000	53.44	Pk	35.5	-95.2	-44.75	-51.01	-13	-38.01	H
6.988000	53	Pk	35.5	-95.2	-44.84	-51.54	-13	-38.54	V

### 10.3. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 3

#### 10.3.1. GSM 1900

##### GPRS MODE

Project #:	14523772
Date:	5/8/2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	GPRS 1900
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1850.2MHz</b>									
3.700781	34.15	Pk	32.9	-95.2	-25.09	-53.24	-13	-40.24	H
3.700781	32.42	Pk	32.9	-95.2	-25.09	-54.97	-13	-41.97	V
5.55	32.38	Pk	34.6	-95.2	-21.43	-49.65	-13	-36.65	V
5.550469	34.08	Pk	34.6	-95.2	-21.43	-47.95	-13	-34.95	H
7.400625	30.2	Pk	35.5	-95.2	-18.4	-47.9	-13	-34.9	H
7.400625	29.7	Pk	35.5	-95.2	-18.4	-48.4	-13	-35.4	V
<b>Mid Channel, 1880MHz</b>									
3.760313	33.01	Pk	32.9	-95.2	-24.87	-54.16	-13	-41.16	H
3.760781	32.31	Pk	32.9	-95.2	-24.88	-54.87	-13	-41.87	V
5.64	32.04	Pk	34.6	-95.2	-20.72	-49.28	-13	-36.28	H
5.64	31.56	Pk	34.6	-95.2	-20.72	-49.76	-13	-36.76	V
7.520625	30.47	Pk	35.4	-95.2	-18.63	-47.96	-13	-34.96	H
7.520625	31	Pk	35.4	-95.2	-18.63	-47.43	-13	-34.43	V
<b>High Channel, 1909.8MHz</b>									
3.819375	34.9	Pk	32.9	-95.2	-25.05	-52.45	-13	-39.45	H
3.819375	32.21	Pk	32.9	-95.2	-25.05	-55.14	-13	-42.14	V
5.729063	30.95	Pk	34.8	-95.2	-21.72	-51.17	-13	-38.17	H
5.729063	32.19	Pk	34.8	-95.2	-21.72	-49.93	-13	-36.93	V
7.639688	29.6	Pk	35.6	-95.2	-17.73	-47.73	-13	-34.73	H
7.639688	29.94	Pk	35.6	-95.2	-17.73	-47.39	-13	-34.39	V

**EGPRS MODE**

Project #:	14523772
Date:	5/8/2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	EGPRS 1900
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1850.2MHz</b>									
3.700781	34.18	Pk	32.9	-95.2	-25.09	-53.21	-13	-40.21	H
3.700781	33.26	Pk	32.9	-95.2	-25.09	-54.13	-13	-41.13	V
5.550469	30.95	Pk	34.6	-95.2	-21.43	-51.08	-13	-38.08	H
5.550469	30.83	Pk	34.6	-95.2	-21.43	-51.2	-13	-38.2	V
7.400625	30.08	Pk	35.5	-95.2	-18.4	-48.02	-13	-35.02	H
7.401094	29.55	Pk	35.5	-95.2	-18.41	-48.56	-13	-35.56	V
<b>Mid Channel, 1880MHz</b>									
3.760781	33.49	Pk	32.9	-95.2	-24.88	-53.69	-13	-40.69	H
3.760781	34.16	Pk	32.9	-95.2	-24.88	-53.02	-13	-40.02	V
5.64	31.72	Pk	34.6	-95.2	-20.72	-49.6	-13	-36.6	V
5.640469	30.78	Pk	34.6	-95.2	-20.72	-50.54	-13	-37.54	H
7.520625	30.45	Pk	35.4	-95.2	-18.63	-47.98	-13	-34.98	H
7.520625	28.41	Pk	35.4	-95.2	-18.63	-50.02	-13	-37.02	V
<b>High Channel, 1909.8MHz</b>									
3.819844	33.72	Pk	32.9	-95.2	-25.06	-53.64	-13	-40.64	H
3.819844	34.62	Pk	32.9	-95.2	-25.06	-52.74	-13	-39.74	V
5.728594	31.23	Pk	34.8	-95.2	-21.71	-50.88	-13	-37.88	H
5.728594	31.76	Pk	34.8	-95.2	-21.71	-50.35	-13	-37.35	V
7.640156	30.69	Pk	35.6	-95.2	-17.73	-46.64	-13	-33.64	V
7.641563	30.32	Pk	35.6	-95.2	-17.71	-46.99	-13	-33.99	H



### 10.3.2. WCDMA BAND 2

#### REL 99 MODE

Project #:	14523772
Date:	05/1/2023
Test Engineer:	27700
Configuration:	EUT Only
Mode:	REL 99 Band 2
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1852.4MHz</b>									
3.6845	54.08	Pk	32.9	-95.2	-45.8	-54.02	-13	-41.02	V
3.6925	54.76	Pk	32.9	-95.2	-45.86	-53.4	-13	-40.4	H
5.5285	54.86	Pk	34.5	-95.2	-45.94	-51.78	-13	-38.78	H
5.55175	54.25	Pk	34.6	-95.2	-45.77	-52.12	-13	-39.12	V
7.405	52.85	Pk	35.4	-95.2	-44.45	-51.4	-13	-38.4	H
7.417	54.11	Pk	35.4	-95.2	-44.48	-50.17	-13	-37.17	V
<b>Mid Channel, 1880MHz</b>									
3.786	54.56	Pk	32.8	-95.2	-46.19	-54.03	-13	-41.03	V
3.788	54.7	Pk	32.8	-95.2	-46.12	-53.82	-13	-40.82	H
5.642	54.18	Pk	34.7	-95.2	-45.87	-52.19	-13	-39.19	V
5.652	54.45	Pk	34.7	-95.2	-45.8	-51.85	-13	-38.85	H
7.527	53.86	Pk	35.5	-95.2	-43.88	-49.72	-13	-36.72	H
7.5285	53.14	Pk	35.5	-95.2	-43.86	-50.42	-13	-37.42	V
<b>High Channel, 1907.6MHz</b>									
3.822	55.39	Pk	32.8	-95.2	-46.19	-53.2	-13	-40.2	H
3.831	56.85	Pk	32.9	-95.2	-46.17	-51.62	-13	-38.62	V
5.7015	55.02	Pk	34.8	-95.2	-45.79	-51.17	-13	-38.17	V
5.7065	54.7	Pk	34.8	-95.2	-45.71	-51.41	-13	-38.41	H
7.643	53.18	Pk	35.6	-95.2	-44.14	-50.56	-13	-37.56	V
7.6525	53.25	Pk	35.6	-95.2	-44.11	-50.46	-13	-37.46	H

**HSDPA MODE**

Project #:	14523772
Date:	05/1/2023
Test Engineer:	27700
Configuration:	EUT Only
Mode:	HSDPA Band 2
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1852.4MHz</b>									
3.6825	54.04	Pk	32.9	-95.2	-45.74	-54	-13	-41	H
3.7045	54.09	Pk	32.8	-95.2	-45.72	-54.03	-13	-41.03	V
5.5365	54.21	Pk	34.6	-95.2	-45.83	-52.22	-13	-39.22	H
5.5675	54.47	Pk	34.6	-95.2	-45.91	-52.04	-13	-39.04	V
7.4015	52.9	Pk	35.4	-95.2	-44.48	-51.38	-13	-38.38	V
7.4155	53.06	Pk	35.4	-95.2	-44.47	-51.21	-13	-38.21	H
<b>Mid Channel, 1880MHz</b>									
3.7505	54.77	Pk	32.7	-95.2	-46.19	-53.92	-13	-40.92	H
3.784	55.65	Pk	32.8	-95.2	-46.21	-52.96	-13	-39.96	V
5.635	54.49	Pk	34.7	-95.2	-45.83	-51.84	-13	-38.84	H
5.6615	54.67	Pk	34.7	-95.2	-45.78	-51.61	-13	-38.61	V
7.536	53.1	Pk	35.5	-95.2	-43.93	-50.53	-13	-37.53	V
7.549	52.84	Pk	35.5	-95.2	-44	-50.86	-13	-37.86	H
<b>High Channel, 1907.6MHz</b>									
3.797	55.91	Pk	32.8	-95.2	-46.44	-52.93	-13	-39.93	V
3.8375	55.59	Pk	32.9	-95.2	-46.11	-52.82	-13	-39.82	H
5.7355	53.33	Pk	34.9	-95.2	-45.62	-52.59	-13	-39.59	H
5.743	54.15	Pk	34.9	-95.2	-45.58	-51.73	-13	-38.73	V
7.6025	52.8	Pk	35.5	-95.2	-44.29	-51.19	-13	-38.19	V
7.623	52.72	Pk	35.6	-95.2	-44.2	-51.08	-13	-38.08	H

### 10.3.3. WCDMA BAND 4

#### REL 99 MODE

Project #:	14523772
Date:	5/16/2023
Test Engineer:	27700
Configuration:	EUT Only
Mode:	REL 99 Band 4
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1712.4MHz</b>									
3.406	55.5	Pk	32.8	-95.2	-46.39	-53.29	-13	-40.29	V
3.414	55.04	Pk	32.8	-95.2	-46.3	-53.66	-13	-40.66	H
5.1125	54.26	Pk	34.2	-95.2	-46.15	-52.89	-13	-39.89	V
5.1355	53.6	Pk	34.2	-95.2	-46.3	-53.7	-13	-40.7	H
6.8345	52.85	Pk	35.5	-95.2	-44.02	-50.87	-13	-37.87	V
6.8355	53.84	Pk	35.5	-95.2	-43.99	-49.85	-13	-36.85	H
<b>Mid Channel, 1732.6MHz</b>									
3.451	54.43	Pk	32.9	-95.2	-46.02	-53.89	-13	-40.89	H
3.473	54.77	Pk	32.9	-95.2	-45.93	-53.46	-13	-40.46	V
5.184	54.7	Pk	34.2	-95.2	-46.15	-52.45	-13	-39.45	H
5.2195	53.76	Pk	34.1	-95.2	-46.12	-53.46	-13	-40.46	V
6.913	52.62	Pk	35.5	-95.2	-44.6	-51.68	-13	-38.68	V
6.92	52.97	Pk	35.5	-95.2	-44.68	-51.41	-13	-38.41	H
<b>High Channel, 1752.6MHz</b>									
3.5095	55.03	Pk	32.9	-95.2	-46.18	-53.45	-13	-40.45	H
3.528	54.24	Pk	32.9	-95.2	-46.24	-54.3	-13	-41.3	V
5.245	54.03	Pk	34.1	-95.2	-46.08	-53.15	-13	-40.15	H
5.28	54.42	Pk	34.1	-95.2	-46.32	-53	-13	-40	V
6.99	53.08	Pk	35.5	-95.2	-44.83	-51.45	-13	-38.45	V
7.0085	54.01	Pk	35.5	-95.2	-44.77	-50.46	-13	-37.46	H

**HSDPA MODE**

Project #:	14523772
Date:	5/16/2023
Test Engineer:	27700
Configuration:	EUT Only
Mode:	HSDPA Band 4
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1712.4MHz</b>									
3.4395	54.42	Pk	32.9	-95.2	-46.04	-53.92	-13	-40.92	V
3.4415	55.05	Pk	32.9	-95.2	-45.93	-53.18	-13	-40.18	H
5.117	55.05	Pk	34.2	-95.2	-46.32	-52.27	-13	-39.27	V
5.119	54.3	Pk	34.2	-95.2	-46.3	-53	-13	-40	H
6.822	53.7	Pk	35.5	-95.2	-44.14	-50.14	-13	-37.14	V
6.8665	52.74	Pk	35.5	-95.2	-44.1	-51.06	-13	-38.06	H
<b>Mid Channel, 1732.6MHz</b>									
3.269	54.77	Pk	32.9	-95.2	-45.74	-53.27	-13	-40.27	V
3.442	54.91	Pk	32.9	-95.2	-45.9	-53.29	-13	-40.29	H
5.1765	54.74	Pk	34.2	-95.2	-46.2	-52.46	-13	-39.46	V
5.1995	54.43	Pk	34.2	-95.2	-46.03	-52.6	-13	-39.6	H
6.9105	52.23	Pk	35.5	-95.2	-44.55	-52.02	-13	-39.02	V
6.9425	53.75	Pk	35.5	-95.2	-44.79	-50.74	-13	-37.74	H
<b>High Channel, 1752.6MHz</b>									
3.4865	54.3	Pk	32.9	-95.2	-46.05	-54.05	-13	-41.05	V
3.498	54.62	Pk	32.9	-95.2	-46.17	-53.85	-13	-40.85	H
5.2565	54.37	Pk	34.1	-95.2	-46.18	-52.91	-13	-39.91	V
5.2735	54.46	Pk	34.1	-95.2	-46.21	-52.85	-13	-39.85	H
6.999	53.3	Pk	35.5	-95.2	-44.76	-51.16	-13	-38.16	V
7.025	52.48	Pk	35.5	-95.2	-44.74	-51.96	-13	-38.96	H

## 10.4. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 4

### 10.4.1. GSM 1900

#### GPRS MODE

Project #:	14523772
Date:	5/9/2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	GPRS 1900
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1850.2MHz</b>									
3.700781	35.84	Pk	32.9	-95.2	-25.09	-51.55	-13	-38.55	H
3.700781	33.23	Pk	32.9	-95.2	-25.09	-54.16	-13	-41.16	V
5.550938	31.51	Pk	34.6	-95.2	-21.44	-50.53	-13	-37.53	H
5.550938	30.9	Pk	34.6	-95.2	-21.44	-51.14	-13	-38.14	V
7.400156	30.97	Pk	35.5	-95.2	-18.38	-47.11	-13	-34.11	H
7.400156	29.4	Pk	35.5	-95.2	-18.38	-48.68	-13	-35.68	V
<b>Mid Channel, 1880MHz</b>									
3.760313	33.81	Pk	32.9	-95.2	-24.87	-53.36	-13	-40.36	H
3.760313	33.07	Pk	32.9	-95.2	-24.87	-54.1	-13	-41.1	V
5.640469	30.89	Pk	34.6	-95.2	-20.72	-50.43	-13	-37.43	H
5.640469	30.46	Pk	34.6	-95.2	-20.72	-50.86	-13	-37.86	V
7.520625	30.81	Pk	35.4	-95.2	-18.63	-47.62	-13	-34.62	H
7.521094	30.53	Pk	35.4	-95.2	-18.63	-47.9	-13	-34.9	V
<b>High Channel, 1909.8MHz</b>									
3.819375	33.51	Pk	32.9	-95.2	-25.05	-53.84	-13	-40.84	H
3.819844	33.58	Pk	32.9	-95.2	-25.06	-53.78	-13	-40.78	V
5.730000	30.95	Pk	34.8	-95.2	-21.67	-51.12	-13	-38.12	H
5.729297	31.17	Pk	34.8	-95.2	-21.71	-50.94	-13	-37.94	V
7.638281	30.77	Pk	35.6	-95.2	-17.74	-46.57	-13	-33.57	H
7.639688	29.31	Pk	35.6	-95.2	-17.73	-48.02	-13	-35.02	V

**EGPRS MODE**

Project #:	14523772
Date:	5/9/2023
Test Engineer:	45258
Configuration:	EUT Only
Mode:	EGPRS 1900
Chamber #:	01-RDE-A

Frequency (GHz)	Meter Reading (dBuV)	Det	Horn Antenna ACF(dB)	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1850.2MHz</b>									
3.701250	34.52	Pk	32.9	-95.2	-25.07	-52.85	-13	-39.85	H
3.700781	33.38	Pk	32.9	-95.2	-25.09	-54.01	-13	-41.01	V
5.550469	31.62	Pk	34.6	-95.2	-21.43	-50.41	-13	-37.41	H
5.550469	31.56	Pk	34.6	-95.2	-21.43	-50.47	-13	-37.47	V
7.400625	30.34	Pk	35.5	-95.2	-18.4	-47.76	-13	-34.76	H
7.400156	31.75	Pk	35.5	-95.2	-18.38	-46.33	-13	-33.33	V
<b>Mid Channel, 1880MHz</b>									
3.760313	34.24	Pk	32.9	-95.2	-24.87	-52.93	-13	-39.93	H
3.760313	32.41	Pk	32.9	-95.2	-24.87	-54.76	-13	-41.76	V
5.639531	30.88	Pk	34.6	-95.2	-20.72	-50.44	-13	-37.44	H
5.640000	31.12	Pk	34.6	-95.2	-20.72	-50.2	-13	-37.2	V
7.520156	30.78	Pk	35.4	-95.2	-18.64	-47.66	-13	-34.66	H
7.520625	31.06	Pk	35.4	-95.2	-18.63	-47.37	-13	-34.37	V
<b>High Channel, 1909.8MHz</b>									
3.819375	33.19	Pk	32.9	-95.2	-25.05	-54.16	-13	-41.16	H
3.819375	32.83	Pk	32.9	-95.2	-25.05	-54.52	-13	-41.52	V
5.729531	32.08	Pk	34.8	-95.2	-21.69	-50.01	-13	-37.01	H
5.729531	34.31	Pk	34.8	-95.2	-21.69	-47.78	-13	-34.78	V
7.639219	30.09	Pk	35.6	-95.2	-17.73	-47.24	-13	-34.24	H
7.639219	30.49	Pk	35.6	-95.2	-17.73	-46.84	-13	-33.84	V

### 10.4.2. WCDMA BAND 2

#### REL 99 MODE

Project #:	14523772
Date:	05/22/2023
Test Engineer:	32961
Configuration:	EUT Only
Mode:	REL 99 Band 2
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1852.4MHz</b>									
3.689500	55.22	Pk	32.9	-95.2	-45.76	-52.84	-13	-39.84	H
3.689000	51.25	Pk	32.9	-95.2	-45.75	-56.80	-13	-43.80	V
5.521000	52.35	Pk	34.5	-95.2	-45.85	-54.20	-13	-41.20	H
5.521500	52.88	Pk	34.5	-95.2	-45.88	-53.70	-13	-40.70	V
7.369500	50.9	Pk	35.5	-95.2	-44.47	-53.27	-13	-40.27	H
7.369500	50.95	Pk	35.5	-95.2	-44.47	-53.22	-13	-40.22	V
<b>Mid Channel, 1880MHz</b>									
3.743152	55.71	Pk	32.8	-95.2	-46.04	-52.73	-13	-39.73	H
3.744298	55.57	Pk	32.7	-95.2	-46.02	-52.95	-13	-39.95	V
5.510337	55.94	Pk	34.5	-95.2	-45.83	-50.59	-13	-37.59	H
5.510549	53.89	Pk	34.5	-95.2	-45.83	-52.64	-13	-39.64	V
7.479168	54.06	Pk	35.5	-95.2	-44.47	-50.11	-13	-37.11	H
7.481519	55.03	Pk	35.5	-95.2	-44.41	-49.08	-13	-36.08	V
<b>High Channel, 1907.6MHz</b>									
3.693917	55.58	Pk	32.9	-95.2	-45.91	-52.63	-13	-39.63	H
3.693298	55.56	Pk	32.9	-95.2	-45.89	-52.63	-13	-39.63	V
5.693533	52.29	Pk	34.8	-95.2	-45.74	-53.85	-13	-40.85	H
5.692914	55.1	Pk	34.8	-95.2	-45.75	-51.05	-13	-38.05	V
7.590365	53.95	Pk	35.5	-95.2	-44.19	-49.94	-13	-36.94	H
7.590998	53.96	Pk	35.5	-95.2	-44.20	-49.94	-13	-36.94	V

**HSDPA MODE**

Project #:	14523772
Date:	05/17/2023
Test Engineer:	27700
Configuration:	EUT Only
Mode:	HSDPA Band 2
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF(dB) - 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1852.4MHz</b>									
3.688000	53.8	Pk	32.9	-95.2	-45.77	-54.27	-13	-41.27	H
3.689500	53.9	Pk	32.9	-95.2	-45.76	-54.16	-13	-41.16	V
5.568000	54.5	Pk	34.6	-95.2	-45.91	-52.01	-13	-39.01	H
5.568000	54.79	Pk	34.6	-95.2	-45.91	-51.72	-13	-38.72	V
7.430000	53.14	Pk	35.4	-95.2	-44.47	-51.13	-13	-38.13	H
7.399500	52.86	Pk	35.4	-95.2	-44.44	-51.38	-13	-38.38	V
<b>Mid Channel, 1880MHz</b>									
3.766000	54.71	Pk	32.7	-95.2	-46.19	-53.98	-13	-40.98	H
3.783500	54.21	Pk	32.8	-95.2	-46.22	-54.41	-13	-41.41	V
5.650000	54.41	Pk	34.7	-95.2	-45.8	-51.89	-13	-38.89	H
5.646000	54.27	Pk	34.7	-95.2	-45.89	-52.12	-13	-39.12	V
7.536000	52.75	Pk	35.5	-95.2	-43.93	-50.88	-13	-37.88	H
7.526000	52.03	Pk	35.5	-95.2	-43.88	-51.55	-13	-38.55	V
<b>High Channel, 1907.6MHz</b>									
3.800000	55.32	Pk	32.8	-95.2	-46.31	-53.39	-13	-40.39	H
3.839000	57.59	Pk	32.9	-95.2	-46.11	-50.82	-13	-37.82	V
5.714500	53.47	Pk	34.8	-95.2	-45.76	-52.69	-13	-39.69	H
5.725000	53.41	Pk	34.9	-95.2	-45.66	-52.55	-13	-39.55	V
7.615000	52.73	Pk	35.5	-95.2	-44.26	-51.23	-13	-38.23	H
7.618000	53.84	Pk	35.5	-95.2	-44.29	-50.15	-13	-37.15	V



### 10.4.3. WCDMA BAND 4

#### REL 99 MODE

Project #:	14523772
Date:	5/22/2023
Test Engineer:	32981
Configuration:	EUT Only
Mode:	REL 99 Band 4
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1712.4MHz Hz</b>									
3.424000	54.03	Pk	32.8	-95.2	-46.23	-54.6	-13	-41.60	H
3.425000	54.42	Pk	32.8	-95.2	-46.16	-54.14	-13	-41.14	V
5.136000	52.26	Pk	34.2	-95.2	-46.30	-55.04	-13	-42.04	H
5.134500	53.48	Pk	34.2	-95.2	-46.32	-53.84	-13	-40.84	V
6.845000	52.54	Pk	35.5	-95.2	-43.98	-51.14	-13	-38.14	H
6.847500	52.19	Pk	35.5	-95.2	-43.94	-51.45	-13	-38.45	V
<b>Mid Channel, 1732.6MHz</b>									
3.466500	54.32	Pk	32.9	-95.2	-46.02	-54.00	-13	-41.00	H
3.465500	53.05	Pk	32.9	-95.2	-45.96	-55.21	-13	-42.21	V
5.197000	53.27	Pk	34.2	-95.2	-46.15	-53.88	-13	-40.88	H
5.197500	53.38	Pk	34.2	-95.2	-46.12	-53.74	-13	-40.74	V
6.927000	52.11	Pk	35.5	-95.2	-44.76	-52.35	-13	-39.35	H
6.927500	52.23	Pk	35.5	-95.2	-44.76	-52.23	-13	-39.23	V
<b>High Channel, 1752.6MHz</b>									
3.502000	53.58	Pk	32.9	-95.2	-46.04	-54.76	-13	-41.76	H
3.504000	53.76	Pk	32.9	-95.2	-46.08	-54.62	-13	-41.62	V
5.258000	53.34	Pk	34.1	-95.2	-46.15	-53.91	-13	-40.91	H
5.259000	54.46	Pk	34.1	-95.2	-46.08	-52.72	-13	-39.72	V
7.011500	51.85	Pk	35.5	-95.2	-44.80	-52.65	-13	-39.65	H
7.011500	51.96	Pk	35.5	-95.2	-44.80	-52.54	-13	-39.54	V

**HSDPA MODE**

Project #:	14523772
Date:	5/23/2023
Test Engineer:	32981
Configuration:	EUT Only
Mode:	HSDPA Band 4
Chamber #:	04-RDE-Q

Frequency (GHz)	Meter Reading (dBuV)	Det	84796 ACF (dB) 3mH	EIRP CF	Gain/Loss (dB)	Corrected Reading (dBm)	LIMIT	Margin (dB)	Polarity
<b>Low Channel, 1712.4MHz</b>									
3.416500	54.34	Pk	32.8	-95.2	-46.17	-54.23	-13	-41.23	H
3.415000	54.97	Pk	32.8	-95.2	-46.30	-53.73	-13	-40.73	V
5.123000	53.94	Pk	34.2	-95.2	-46.34	-53.40	-13	-40.40	H
5.122500	53.44	Pk	34.2	-95.2	-46.33	-53.89	-13	-40.89	V
6.841000	52.22	Pk	35.5	-95.2	-44.05	-51.53	-13	-38.53	H
6.841000	51.72	Pk	35.5	-95.2	-44.05	-52.03	-13	-39.03	V
<b>Mid Channel, 1732.6MHz</b>									
3.466000	53.62	Pk	32.9	-95.2	-45.99	-54.67	-13	-41.67	H
3.467000	52.95	Pk	32.9	-95.2	-46.05	-55.40	-13	-42.40	V
5.199500	52.98	Pk	34.2	-95.2	-46.03	-54.05	-13	-41.05	H
5.198500	52.74	Pk	34.2	-95.2	-46.06	-54.32	-13	-41.32	V
6.914500	53	Pk	35.5	-95.2	-44.64	-51.34	-13	-38.34	H
6.913500	52.27	Pk	35.5	-95.2	-44.61	-52.04	-13	-39.04	V
<b>High Channel, 1752.6MHz</b>									
3.503500	54.19	Pk	32.9	-95.2	-46.05	-54.16	-13	-41.16	H
3.502500	52.69	Pk	32.9	-95.2	-46.03	-55.64	-13	-42.64	V
5.255500	54.31	Pk	34.1	-95.2	-46.19	-52.98	-13	-39.98	H
5.256500	54.85	Pk	34.1	-95.2	-46.18	-52.43	-13	-39.43	V
7.007500	52.15	Pk	35.5	-95.2	-44.76	-52.31	-13	-39.31	H
7.008500	52.13	Pk	35.5	-95.2	-44.77	-52.34	-13	-39.34	V

## 11. SETUP PHOTOS

Please refer to 14523772-EP1V1 for setup photos

**END OF REPORT**