

8.4.1. GSM

ID:	10646	Date:	2/27/18
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GPRS 850MHz

Limit		824.00	849.00	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	824.0316	848.9609	Delta (Hz)	Frequency Stability (ppm)
Extreme (50C)		824.0316	848.9609		-0.030
Extreme (40C)		824.0316	848.9609		-0.031
Extreme (30C)		824.0316	848.9609		-0.021
Extreme (10C)		824.0316	848.9609		-0.021
Extreme (0C)		824.0316	848.9609		-0.021
Extreme (-10C)		824.0316	848.9609		-0.027
Extreme (-20C)		824.0316	848.9609		-0.019
Extreme (-30C)		824.0316	848.9609		-0.021
20C	15%	824.0316	848.9609	21.7	0.026
	-15%	824.0316	848.9609	-18.8	-0.022
	End Point	824.0316	848.9609	20.2	0.024

GPRS 1900MHz

Limit		1850.00	1910.00	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1850.0387	1909.9608	Delta (Hz)	Frequency Stability (ppm)
Extreme (50C)		1850.0387	1909.9608		-0.019
Extreme (40C)		1850.0387	1909.9608		-0.018
Extreme (30C)		1850.0387	1909.9608		-0.018
Extreme (10C)		1850.0387	1909.9608		-0.020
Extreme (0C)		1850.0387	1909.9607		-0.021
Extreme (-10C)		1850.0387	1909.9607		-0.026
Extreme (-20C)		1850.0387	1909.9607		-0.026
Extreme (-30C)		1850.0386	1909.9607		-0.032
20C	15%	1850.0387	1909.9607	-42.1	-0.022
	-15%	1850.0387	1909.9607	-40.7	-0.022
	End Point	1850.0387	1909.9607	-38.6	-0.021

8.4.2. CDMA

ID:	44366	Date:	4/4/18
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CDMA 1xRTT BC0

Limit		824.00	849.00	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	824.0390	848.9710	Delta (Hz)	Frequency Stability (ppm)
Extreme (50C)		824.0390	848.9710		-0.038
Extreme (40C)		824.0389	848.9709		-0.062
Extreme (30C)		824.0390	848.9710		-0.055
Extreme (10C)		824.0390	848.9710		-0.047
Extreme (0C)		824.0390	848.9710		-0.027
Extreme (-10C)		824.0390	848.9710		-0.029
Extreme (-20C)		824.0390	848.9710		-0.021
Extreme (-30C)		824.0390	848.9710		-0.020
20C		15%	824.0390	848.9710	-5.8
		-15%	824.0390	848.9710	7.3
		End Point	824.0390	848.9710	8.2

CDMA 1xRTT BC1

Limit		1850	1910	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1850.5310	1909.4640	Delta (Hz)	Frequency Stability (ppm)
Extreme (50C)		1850.5310	1909.4640		-0.023
Extreme (40C)		1850.5310	1909.4640		-0.013
Extreme (30C)		1850.5310	1909.4640		-0.017
Extreme (10C)		1850.5310	1909.4640		-0.022
Extreme (0C)		1850.5310	1909.4640		-0.023
Extreme (-10C)		1850.5309	1909.4639		-0.029
Extreme (-20C)		1850.5311	1909.4641		0.043
Extreme (-30C)		1850.5311	1909.4641		0.051
20C		15%	1850.5310	1909.4640	-38.6
		-15%	1850.5310	1909.4640	-40.9
		End Point	1850.5310	1909.4640	-39.0

CDMA 1xRTT BC10

Limit		816	824	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	816.5423	823.4638		
Extreme (50C)		816.5423	823.4638	-10.5	-0.013
Extreme (40C)		816.5423	823.4638	-7.8	-0.010
Extreme (30C)		816.5423	823.4638	-8.8	-0.011
Extreme (10C)		816.5423	823.4638	7.0	0.009
Extreme (0C)		816.5423	823.4638	-8.9	-0.011
Extreme (-10C)		816.5423	823.4638	4.5	0.006
Extreme (-20C)		816.5423	823.4638	-8.8	-0.011
Extreme (-30C)		816.5423	823.4638	-6.6	-0.008
20C	15%	816.5423	823.4638	9.2	0.011
	-15%	816.5423	823.4638	-8.6	-0.010
	End Point	816.5423	823.4638	-10.0	-0.012

8.4.3. WCDMA

ID:	44410	Date:	2/28/18
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WCDMA REL 99 BAND 2

Limit		1850.00	1910.00	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	1850.1390	1909.8513		
Extreme (50C)		1850.1390	1909.8513	25.4	0.014
Extreme (40C)		1850.1389	1909.8513	-23.8	-0.013
Extreme (30C)		1850.1390	1909.8513	23.6	0.013
Extreme (10C)		1850.1389	1909.8512	-28.8	-0.015
Extreme (0C)		1850.1389	1909.8512	-27.2	-0.014
Extreme (-10C)		1850.1390	1909.8513	26.2	0.014
Extreme (-20C)		1850.1390	1909.8513	29.4	0.016
Extreme (-30C)		1850.1388	1909.8511	-168.4	-0.090
20C		15%	1850.1389	1909.8513	-24.9
		-15%	1850.1389	1909.8512	-28.0
		End Point	1850.1389	1909.8513	-24.8

WCDMA REL 99 BAND 4

Limit		1710.00	1755.00	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	1710.1390	1754.8715		
Extreme (50C)		1710.1390	1754.8715	-19.9	-0.011
Extreme (40C)		1710.1390	1754.8715	18.4	0.011
Extreme (30C)		1710.1390	1754.8716	20.3	0.012
Extreme (10C)		1710.1390	1754.8716	20.2	0.012
Extreme (0C)		1710.1390	1754.8715	-19.6	-0.011
Extreme (-10C)		1710.1390	1754.8715	-22.2	-0.013
Extreme (-20C)		1710.1390	1754.8716	23.2	0.013
Extreme (-30C)		1710.1390	1754.8715	-21.5	-0.012
20C		15%	1710.1390	1754.8715	-26.1
		-15%	1710.1390	1754.8715	19.0
		End Point	1710.1390	1754.8715	-27.1

WCDMA REL 99 BAND 5

Limit		824.00	849.00	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm (MHz)	F high @ -13dBm (MHz)		
Temperature	Voltage				
Normal (20C)	Normal	824.1297	848.8713		
Extreme (50C)		824.1297	848.8713	-14.7	-0.018
Extreme (40C)		824.1297	848.8713	-10.9	-0.013
Extreme (30C)		824.1297	848.8713	4.6	0.006
Extreme (10C)		824.1297	848.8713	-8.2	-0.010
Extreme (0C)		824.1297	848.8713	-8.4	-0.010
Extreme (-10C)		824.1297	848.8713	7.2	0.009
Extreme (-20C)		824.1297	848.8713	6.4	0.008
Extreme (-30C)		824.1297	848.8712	-54.6	-0.065
20C	15%	824.1297	848.8713	22.8	0.027
	-15%	824.1297	848.8713	8.6	0.010
	End Point	824.1297	848.8713	14.2	0.017

8.5. PEAK-TO-AVERAGE POWER RATIO

LIMIT

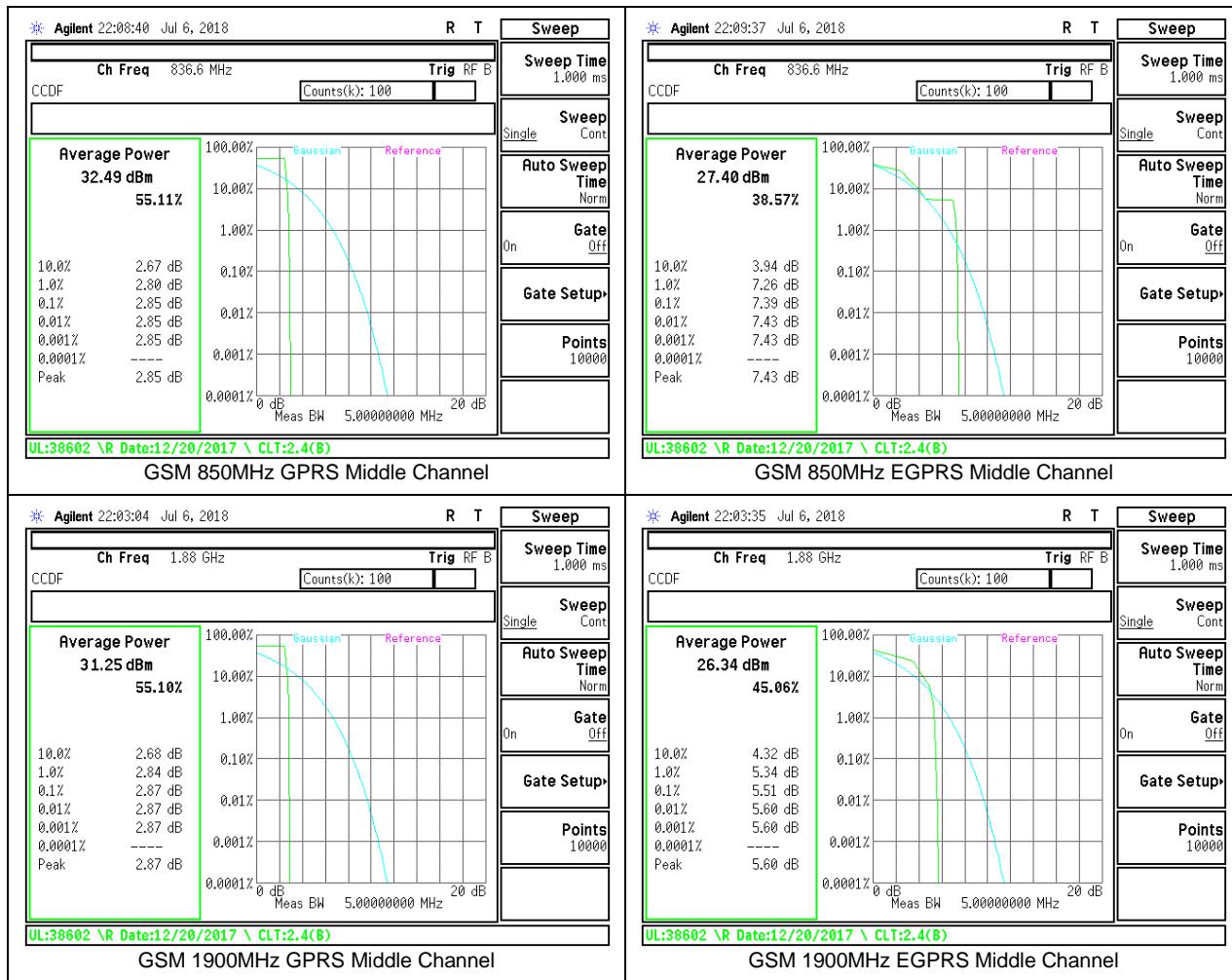
In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

RESULT

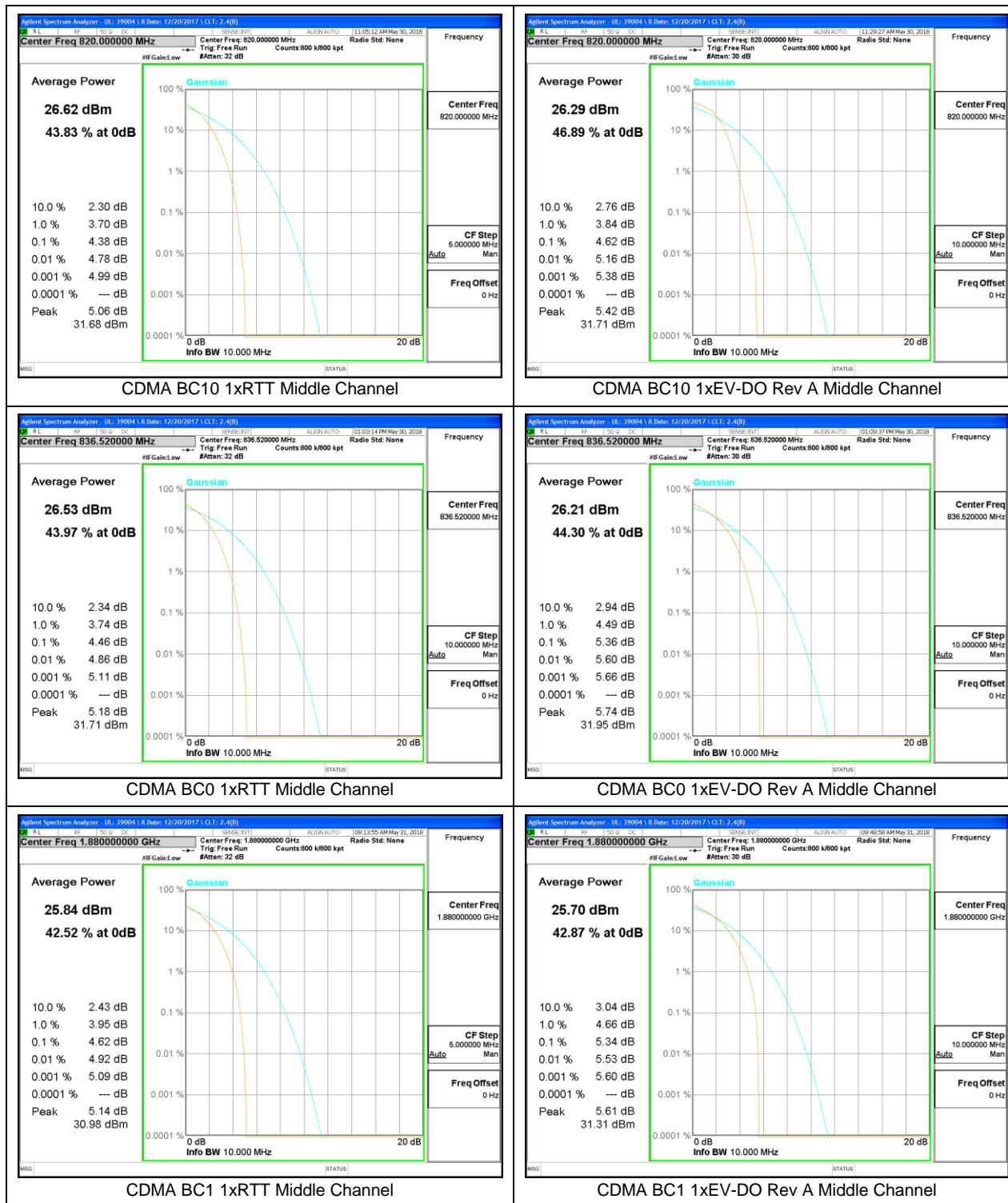
LAT 1 antenna was used to measure as the worst case. The results from all CCDF plots are passed with 13dB peak-to-average power ratio criteria.

ID:	50820	Date:	5/9/18
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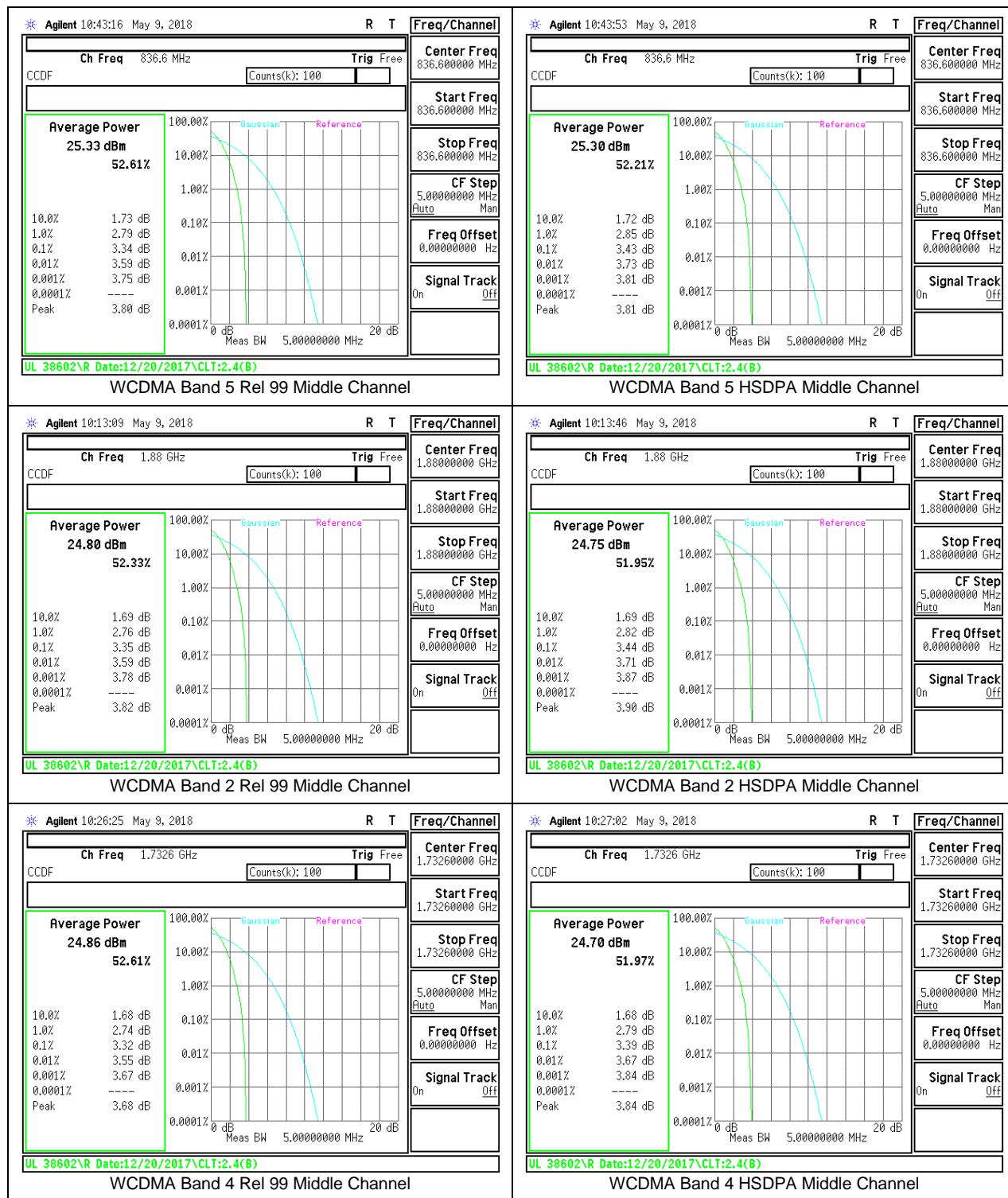
8.5.1. GSM Powers



8.5.2. CDMA



8.5.3. WCDMA



9. RADIATED TEST RESULTS

9.1. FIELD STRENGTH OF SPURIOUS RADIATION (Ant 1)

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53 and §90.691.

IC: RSS132§5.5; RSS133§6.5 and RSS139§6.6

LIMIT

FCC: §22.917(a), §24.238(a), §27.53 (h), §90.691

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 $43 + 10 \log_{10}(P)$ dB.

RSS132§5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) 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 (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10}(P)$ (watts).
- (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 (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10}(P)$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

RSS133§6.5

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 $43 + 10 \log_{10}(P)$ (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 $43 + 10 \log_{10}(P)$ (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

RSS139§6.6

- (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 $43 + 10 \log_{10}(P)$ 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 $43 + 10 \log_{10}(P)$ dB.

TEST PROCEDURE

KDB 971168 D01 Section 7

RESULTS

9.1.1. GSM

High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company:		Test Equipment:									
Project #: 04/06/18		Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Test Engineer: 10649		Configuration: EUT only									
Mode: GPRS 850MHz		Mode: EGPRS 850MHz									
Test Equipment:											
Substitution: Horn T59 Substitution, and 8ft SMA Cable		Chamber									
Chamber		Pre-amplifier		Filter		Limit		EIRP		Notes	
3m Chamber E		3m Chamber E		Filter		Limit		EIRP			
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (HV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (824.2MHz)											
1.65	49.9	H	3.0	-7.4	37.8	1.0	44.3	-13.0	31.3		
2.47	64.4	H	3.0	-19.4	38.5	1.0	56.9	-13.0	43.9		
2.48	64.4	V	3.0	-15.5	38.5	1.0	56.9	-13.0	43.9		
1.65	56.4	V	3.0	-14.2	37.8	1.0	51.1	-13.0	38.1		
2.47	64.6	V	3.0	-19.4	38.5	1.0	56.9	-13.0	43.9		
3.36	63.5	V	3.0	-14.8	38.5	1.0	52.3	-13.0	39.3		
Mid Channel (836.5MHz)											
1.65	52.6	H	3.0	-10.1	37.8	1.0	46.9	-13.0	33.9		
2.47	63.9	H	3.0	-18.7	38.6	1.0	56.3	-13.0	43.3		
3.35	65.2	H	3.0	-16.1	38.5	1.0	53.6	-13.0	40.6		
1.65	56.7	V	3.0	-13.5	37.8	1.0	51.1	-13.0	37.1		
2.51	64.1	V	3.0	-18.7	38.6	1.0	56.3	-13.0	43.3		
3.35	64.9	V	3.0	-16.1	38.5	1.0	53.5	-13.0	40.5		
High Channel (848.8MHz)											
1.70	47.2	H	3.0	-4.7	37.9	1.0	41.5	-13.0	26.5		
2.47	64.7	H	3.0	-15.2	38.6	1.0	56.9	-13.0	43.0		
3.40	64.7	H	3.0	-15.5	38.5	1.0	53.9	-13.0	40.0		
1.70	50.3	V	3.0	-8.0	37.9	1.0	44.8	-13.0	31.8		
2.55	64.4	V	3.0	-18.8	38.6	1.0	56.3	-13.0	43.3		
3.40	65.3	V	3.0	-16.3	38.5	1.0	53.8	-13.0	40.8		
Rev. 03.19.15											
GSM 850MHz GPRS											
High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company:		Test Equipment:									
Project #: 04/07/18		Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Test Engineer: 10649		Configuration: EUT only									
Mode: GPRS 1900MHz		Mode: EGPRS 1900MHz									
Test Equipment:											
Substitution: Horn T59 Substitution, and 8ft SMA Cable		Chamber		Pre-amplifier		Filter		Limit		EIRP	
3m Chamber E		3m Chamber E		Filter		Limit		EIRP			
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (HV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (1850.2MHz)											
3.70	63.0	H	3.0	-13.1	38.6	1.0	59.7	-13.0	37.7		
5.55	62.4	H	3.0	-16.1	38.5	1.0	53.9	-13.0	37.0		
7.52	66.0	H	3.0	-8.3	37.8	1.0	45.1	-13.0	32.7		
3.70	62.7	V	3.0	-12.8	38.6	1.0	59.4	-13.0	37.4		
5.55	64.6	V	3.0	-10.9	38.6	1.0	48.5	-13.0	35.5		
7.40	64.3	V	3.0	-6.9	37.8	1.0	43.7	-13.0	30.7		
Mid Channel (1880.0)											
3.76	61.0	H	3.0	-18.9	38.6	1.0	48.5	-13.0	35.5		
5.54	62.4	H	3.0	-8.2	38.5	1.0	49.7	-13.0	37.7		
7.52	65.7	H	3.0	-8.2	37.7	1.0	44.9	-13.0	31.9		
3.76	61.4	V	3.0	-11.3	38.6	1.0	49.0	-13.0	36.0		
5.54	63.7	V	3.0	-8.0	38.5	1.0	48.9	-13.0	34.9		
7.52	65.5	V	3.0	-7.9	37.7	1.0	44.7	-13.0	31.7		
High Channel (1905.8MHz)											
3.82	61.5	H	3.0	-11.3	38.7	1.0	48.9	-13.0	35.9		
5.73	63.7	H	3.0	-9.3	38.5	1.0	48.6	-13.0	33.8		
7.54	65.7	H	3.0	-7.8	37.7	1.0	44.6	-13.0	31.6		
3.82	62.7	V	3.0	-11.6	38.7	1.0	48.9	-13.0	34.8		
5.73	63.9	V	3.0	-9.8	38.5	1.0	47.3	-13.0	34.3		
7.54	65.8	V	3.0	-8.2	37.7	1.0	44.9	-13.0	31.9		
Rev. 03.19.15											
GSM 1900MHz GPRS											
High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company:		Test Equipment:									
Project #: 04/07/18		Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Test Engineer: 10649		Configuration: EUT only									
Mode: EGPRS 850MHz		Mode: EGPRS 850MHz									
Test Equipment:											
Substitution: Horn T59 Substitution, and 8ft SMA Cable		Chamber		Pre-amplifier		Filter		Limit		EIRP	
3m Chamber E		3m Chamber E		Filter		Limit		EIRP			
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (HV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (1850.2MHz)											
1.65	52.3	H	3.0	-9.8	37.8	1.0	48.5	-13.0	32.2		
2.47	64.4	H	3.0	-19.8	38.5	1.0	57.1	-13.0	44.1		
3.36	64.1	H	3.0	-15.1	38.5	1.0	52.6	-13.0	39.6		
1.65	54.2	V	3.0	-12.1	37.8	1.0	48.9	-13.0	35.9		
2.47	64.1	V	3.0	-12.1	37.8	1.0	52.1	-13.0	37.1		
3.35	64.8	V	3.0	-12.6	38.5	1.0	53.4	-13.0	43.4		
Mid Channel (1864.0MHz)											
1.65	52.3	H	3.0	-9.8	37.8	1.0	48.6	-13.0	32.6		
2.51	64.7	H	3.0	-19.5	38.6	1.0	57.0	-13.0	44.0		
3.35	64.7	H	3.0	-15.6	38.5	1.0	52.1	-13.0	39.1		
1.67	57.4	V	3.0	-15.3	37.8	1.0	48.1	-13.0	32.5		
2.51	64.5	V	3.0	-19.2	38.6	1.0	56.1	-13.0	43.1		
3.35	64.8	V	3.0	-15.9	38.5	1.0	53.4	-13.0	40.4		
High Channel (1884.0MHz)											
1.70	47.2	H	3.0	-4.6	37.9	1.0	41.5	-13.0	26.5		
2.55	64.9	H	3.0	-19.4	38.6	1.0	57.0	-13.0	44.0		
3.40	64.4	H	3.0	-15.7	38.6	1.0	52.5	-13.0	39.7		
1.70	51.1	V	3.0	-8.7	37.9	1.0	45.5	-13.0	32.5		
2.55	64.1	V	3.0	-18.5	38.6	1.0	56.1	-13.0	43.1		
3.40	65.3	V	3.0	-16.3	38.5	1.0	53.8	-13.0	40.8		
Rev. 03.19.15											
GSM 1800MHz EGPRS											
High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company:		Test Equipment:									
Project #: 04/07/18		Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Test Engineer: 10649		Configuration: EUT only									
Mode: EGPRS 1900MHz		Mode: EGPRS 1900MHz									
Test Equipment:											
Substitution: Horn T59 Substitution, and 8ft SMA Cable		Chamber		Pre-amplifier		Filter		Limit		EIRP	
3m Chamber E		3m Chamber E		Filter		Limit		EIRP			
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (HV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (1905.8MHz											

9.1.2. CDMA

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber G	-	3m Chamber G	-	Filter	-	EIRP	-	-	EIRP	-
Frequency	SA reading (GHz)	Ant. Pol. (dBi)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (817.25MHz)										
1.63	66.3	H	3.0	-24.8	37.8	1.0	61.7	-13.0	-48.7	
2.46	66.3	H	3.0	-24.7	36.7	1.0	60.3	-13.0	-47.5	
3.27	67.3	H	3.0	-24.4	36.5	1.0	56.9	-13.0	-43.9	
1.63	66.5	V	3.0	-24.7	37.8	1.0	61.6	-13.0	-48.6	
2.45	67.5	V	3.0	-23.6	36.7	1.0	59.4	-13.0	-46.4	
3.27	68.2	V	3.0	-22.4	36.5	1.0	57.9	-13.0	-44.9	
Mid Channel (820MHz)										
1.63	65.3	H	3.0	-24.1	37.8	1.0	61.0	-13.0	-48.0	
2.46	67.8	H	3.0	-24.6	36.7	1.0	60.3	-13.0	-47.3	
3.28	68.2	H	3.0	-22.3	36.5	1.0	57.9	-13.0	-44.9	
1.64	66.7	V	3.0	-25.0	37.8	1.0	61.8	-13.0	-48.8	
2.46	67.5	V	3.0	-23.7	36.7	1.0	59.3	-13.0	-45.3	
3.28	68.2	V	3.0	-22.3	36.5	1.0	57.8	-13.0	-44.8	
High Channel (822.75MHz)										
1.65	66.9	H	3.0	-25.4	37.8	1.0	62.3	-13.0	-49.3	
2.47	66.9	H	3.0	-23.8	36.6	1.0	59.4	-13.0	-46.4	
3.29	69.0	H	3.0	-23.1	36.5	1.0	58.7	-13.0	-45.7	
1.65	66.2	V	3.0	-24.7	37.8	1.0	61.9	-13.0	-48.3	
2.47	67.3	V	3.0	-23.3	36.6	1.0	58.9	-13.0	-45.9	
3.29	68.3	V	3.0	-22.5	36.5	1.0	58.0	-13.0	-45.0	
Rev: 03.19.15										
CDMA BC10 1xRTT										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber G	-	3m Chamber G	-	Filter	-	EIRP	-	-	EIRP	-
Frequency	SA reading (GHz)	Ant. Pol. (dBi)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (824.1MHz)										
1.76	64.8	H	3.0	-23.4	37.8	1.0	60.2	-13.0	-47.2	
2.51	66.4	H	3.0	-23.3	36.6	1.0	59.9	-13.0	-45.9	
3.30	67.4	H	3.0	-21.5	36.5	1.0	57.0	-13.0	-44.0	
1.65	66.1	V	3.0	-24.3	37.8	1.0	61.2	-13.0	-48.2	
2.47	66.9	V	3.0	-22.9	36.6	1.0	58.5	-13.0	-45.9	
3.30	68.1	V	3.0	-22.1	36.5	1.0	57.7	-13.0	-44.7	
Mid Channel (826.5MHz)										
1.76	67.3	H	3.0	-24.8	37.8	1.0	61.7	-13.0	-48.7	
2.51	67.3	H	3.0	-24.1	36.4	1.0	59.4	-13.0	-46.4	
3.35	68.5	H	3.0	-22.4	36.5	1.0	57.9	-13.0	-44.9	
1.67	67.1	V	3.0	-25.3	37.8	1.0	62.2	-13.0	-49.2	
2.47	68.1	V	3.0	-23.8	36.6	1.0	57.1	-13.0	-45.1	
3.35	68.0	V	3.0	-22.0	36.5	1.0	57.4	-13.0	-44.4	
High Channel (848.31MHz)										
1.76	67.2	H	3.0	-25.7	37.8	1.0	62.5	-13.0	-49.5	
2.54	67.1	H	3.0	-23.7	36.4	1.0	59.1	-13.0	-46.1	
3.39	67.3	H	3.0	-21.1	36.4	1.0	56.6	-13.0	-43.6	
1.79	66.7	V	3.0	-26.0	37.8	1.0	62.7	-13.0	-49.7	
2.54	67.5	V	3.0	-23.2	36.4	1.0	58.6	-13.0	-45.6	
3.39	68.2	V	3.0	-22.1	36.4	1.0	57.5	-13.0	-44.5	
Rev: 03.19.15										
CDMA BC0 1xRTT										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber G	-	3m Chamber G	-	Filter	-	EIRP	-	-	EIRP	-
Frequency	SA reading (GHz)	Ant. Pol. (dBi)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (824.1MHz)										
1.76	64.3	H	3.0	-22.9	37.8	1.0	59.7	-13.0	-47.7	
2.51	66.6	H	3.0	-23.5	36.5	1.0	58.2	-13.0	-45.2	
3.30	67.3	H	3.0	-21.4	36.5	1.0	56.5	-13.0	-43.9	
1.65	66.3	V	3.0	-24.5	37.8	1.0	61.3	-13.0	-48.3	
2.47	66.8	V	3.0	-22.6	36.6	1.0	59.6	-13.0	-45.1	
3.30	68.2	V	3.0	-22.3	36.5	1.0	57.8	-13.0	-44.8	
Mid Channel (826.5MHz)										
1.76	67.4	H	3.0	-25.8	37.8	1.0	61.8	-13.0	-48.8	
2.51	67.1	H	3.0	-23.9	36.4	1.0	59.3	-13.0	-46.3	
3.35	68.3	H	3.0	-22.3	36.5	1.0	57.8	-13.0	-44.8	
1.67	66.3	V	3.0	-25.1	37.8	1.0	61.1	-13.0	-48.0	
2.47	66.8	V	3.0	-23.6	36.6	1.0	59.6	-13.0	-45.1	
3.35	67.2	V	3.0	-22.3	36.5	1.0	57.8	-13.0	-44.8	
High Channel (848.31MHz)										
1.76	67.7	H	3.0	-26.2	37.8	1.0	63.0	-13.0	-50.0	
2.54	67.3	H	3.0	-23.9	36.4	1.0	59.3	-13.0	-46.3	
3.39	68.3	H	3.0	-22.7	36.5	1.0	57.8	-13.0	-44.8	
1.76	67.5	V	3.0	-25.7	37.8	1.0	62.5	-13.0	-49.5	
2.54	66.2	V	3.0	-23.1	36.4	1.0	57.3	-13.0	-44.3	
3.39	67.6	V	3.0	-21.4	36.4	1.0	56.8	-13.0	-43.8	
Rev: 03.19.15										
CDMA BC0 1xRTT										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber G	-	3m Chamber G	-	Filter	-	EIRP	-	-	EIRP	-
Frequency	SA reading (GHz)	Ant. Pol. (dBi)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (824.1MHz)										
1.76	64.3	H	3.0	-22.9	37.8	1.0	59.7	-13.0	-47.7	
2.51	66.6	H	3.0	-23.5	36.5	1.0	58.2	-13.0	-45.2	
3.30	67.3	H	3.0	-21.4	36.5	1.0	56.5	-13.0	-43.9	
1.65	66.3	V	3.0	-24.5	37.8	1.0	61.3	-13.0	-48.3	
2.47	66.8	V	3.0	-22.6	36.6	1.0	59.6	-13.0	-45.1	
3.30	67.2	V	3.0	-22.3	36.5	1.0	57.8	-13.0	-44.8	
Mid Channel (826.5MHz)										
1.76	67.4	H	3.0	-25.8	37.8	1.0	61.8	-13.0	-48.8	
2.51	67.1	H	3.0	-23.9	36.4	1.0	59.3	-13.0	-46.3	
3.35	68.3	H	3.0	-22.3	36.5	1.0	57.8	-13.0	-44.8	
1.67	66.3	V	3.0	-25.1	37.8	1.0	61.1	-13.0	-48.0	
2.47	66.8	V	3.0	-23.6	36.6	1.0	59.6	-13.0	-45.1	
3.35	67.2	V	3.0	-22.3	36.5	1.0	57.8	-13.0	-44.8	
High Channel (848.31MHz)										
1.76	67.7	H	3.0	-26.2	37.8	1.0	63.0	-13.0	-50.0	
2.54	67.3	H	3.0	-23.9	36.4	1.0	59.3	-13.0	-46.3	
3.39	68.3	H	3.0	-22.7	36.5	1.0	57.8	-13.0	-44.8	
1.76	67.5	V	3.0	-25.7	37.8	1.0	62.5	-13.0	-49.5	
2.54	66.2	V	3.0	-23.1	36.4	1.0	57.3	-13.0	-44.3	
3.39	67.6	V	3.0	-21.4	36.4	1.0	56.8	-13.0	-43.8	
Rev: 03.19.15										
CDMA BC0 1xEV-DO Rev A										

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: 04/15/18 Date: 12/01/18 Test Engineer: 12491 Configuration: EUT only Mode: Rev B/A 1900MHz										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber G	3m Chamber G	Filter		EIRP						
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1851.25MHz)										
3.70	-65.2	H	3.0	18.4	36.2	1.0	53.6	-13.0	48.6	
5.64	-67.2	H	3.0	19.9	36.1	1.0	52.0	-13.0	39.9	
7.41	-70.6	H	3.0	-17.5	35.2	1.0	51.7	-13.0	38.7	
3.70	-64.4	V	3.0	-17.3	36.2	1.0	52.5	-13.0	39.5	
5.65	-68.7	V	3.0	-18.1	36.1	1.0	53.1	-13.0	48.7	
7.41	-70.5	V	3.0	-17.4	35.2	1.0	51.7	-13.0	38.7	
Mid Channel (1880MHz)										
3.70	-67.0	H	3.0	20.1	36.2	1.0	55.3	-13.0	42.3	
5.64	-69.4	H	3.0	-19.0	36.1	1.0	54.1	-13.0	41.1	
7.52	-69.1	H	3.0	-15.9	35.1	1.0	50.0	-13.0	37.0	
3.70	-62.4	V	3.0	-16.1	36.2	1.0	50.0	-13.0	37.2	
5.64	-68.4	V	3.0	-18.1	36.1	1.0	53.2	-13.0	48.2	
7.52	-69.9	V	3.0	-16.8	35.1	1.0	50.9	-13.0	37.9	
High Channel (1900.75MHz)										
3.82	-68.3	H	3.0	-21.3	36.1	1.0	56.4	-13.0	43.4	
5.73	-68.2	H	3.0	-17.6	36.1	1.0	52.6	-13.0	39.6	
7.64	-70.5	H	3.0	-17.4	35.0	1.0	51.5	-13.0	38.5	
3.82	-67.9	V	3.0	-20.3	36.1	1.0	55.1	-13.0	45.5	
5.73	-68.3	V	3.0	-17.9	36.1	1.0	52.9	-13.0	39.9	
7.64	-70.0	V	3.0	-16.8	35.0	1.0	50.8	-13.0	37.8	

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CDMA BC1 1xRTT

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: 04/17/18 Date: 12/01 Test Engineer: 12491 Configuration: EUT only Mode: Rev B/A 1900MHz										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber G	3m Chamber G	Filter		EIRP						
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1851.25MHz)										
3.70	-68.0	H	3.0	-21.3	36.2	1.0	56.5	-13.0	43.5	
5.65	-68.6	H	3.0	-17.3	36.1	1.0	52.4	-13.0	39.4	
7.41	-69.5	H	3.0	-16.4	35.2	1.0	50.6	-13.0	37.6	
3.70	-69.2	V	3.0	-22.1	36.2	1.0	57.3	-13.0	44.3	
5.65	-69.3	V	3.0	-17.4	36.1	1.0	52.5	-13.0	39.5	
7.41	-69.9	V	3.0	-16.8	35.2	1.0	51.1	-13.0	38.1	
Mid Channel (1880MHz)										
3.76	-66.7	H	3.0	-19.8	36.2	1.0	55.0	-13.0	42.0	
5.64	-67.7	H	3.0	-17.2	36.1	1.0	52.3	-13.0	39.3	
7.52	-69.3	H	3.0	-16.1	35.1	1.0	50.2	-13.0	37.2	
3.76	-67.1	V	3.0	-18.8	36.2	1.0	52.0	-13.0	39.0	
5.64	-67.7	V	3.0	-17.4	36.1	1.0	52.5	-13.0	39.5	
7.52	-69.0	V	3.0	-15.9	35.1	1.0	50.0	-13.0	37.0	
High Channel (1900.75MHz)										
3.82	-68.2	H	3.0	-21.2	36.1	1.0	56.4	-13.0	43.4	
5.73	-68.0	H	3.0	-17.8	36.1	1.0	52.9	-13.0	39.8	
7.64	-69.9	H	3.0	-16.8	35.0	1.0	50.0	-13.0	37.8	
3.82	-66.7	V	3.0	-19.2	36.1	1.0	54.3	-13.0	41.3	
5.73	-66.9	V	3.0	-16.4	36.1	1.0	51.5	-13.0	38.5	
7.64	-69.6	V	3.0	-16.4	35.0	1.0	50.4	-13.0	37.4	

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CDMA BC1 1xEV-DO Rev A

9.1.3. WCDMA

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company:		Test Equipment:								
Project #:		Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Date:		Test Equipment:								
04/07/18		Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Test Equipment:		Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber E		3m Chamber E		Filter		EIRP				
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (HV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (826.4MHz)										
1.65	63.9	H	3.0	-24.4	37.8	1.0	-58.3	-13.0	-45.3	
2.48	65.1	H	3.0	-26.1	38.5	1.0	-57.6	-13.0	-44.6	
3.31	65.1	H	3.0	-15.1	38.5	1.0	-53.6	-13.0	-40.6	
1.65	63.7	V	3.0	-21.5	37.8	1.0	-58.4	-13.0	-45.4	
2.48	64.1	V	3.0	-23.7	38.5	1.0	-56.9	-13.0	-43.2	
3.31	64.7	V	3.0	-16.0	38.5	1.0	-53.5	-13.0	-40.5	
Mid Channel (836.6MHz)										
1.67	64.4	H	3.0	-21.9	37.8	1.0	-58.8	-13.0	-45.8	
2.51	63.8	H	3.0	-18.6	38.6	1.0	-56.2	-13.0	-43.2	
3.35	65.5	H	3.0	-16.4	38.5	1.0	-53.9	-13.0	-40.9	
1.67	64.2	V	3.0	-22.0	37.8	1.0	-58.6	-13.0	-45.3	
2.51	65.1	V	3.0	-17.8	38.6	1.0	-57.3	-13.0	-44.3	
3.35	64.4	V	3.0	-15.6	38.5	1.0	-53.1	-13.0	-40.1	
High Channel (846.6MHz)										
1.69	62.7	H	3.0	-20.2	37.9	1.0	-57.1	-13.0	-44.1	
2.54	64.1	H	3.0	-18.7	38.6	1.0	-56.3	-13.0	-43.3	
3.39	65.1	H	3.0	-16.5	38.5	1.0	-54.6	-13.0	-40.1	
1.69	64.1	V	3.0	-27.9	37.9	1.0	-58.6	-13.0	-45.7	
2.54	64.4	V	3.0	-18.9	38.6	1.0	-56.4	-13.0	-43.4	
3.39	64.4	V	3.0	-15.4	38.5	1.0	-52.9	-13.0	-39.9	

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WCDMA Band 5 Rel 99

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company:		Test Equipment:								
Project #:		Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Date:		Test Equipment:								
04/07/18		Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Test Equipment:		Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber E		3m Chamber E		Filter		EIRP				
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (HV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (826.4MHz)										
1.65	63.2	H	3.0	-28.8	37.8	1.0	-57.5	-13.0	-44.6	
2.48	63.9	H	3.0	-18.8	38.5	1.0	-56.3	-13.0	-43.3	
3.31	64.8	H	3.0	-15.8	38.5	1.0	-53.3	-13.0	-40.3	
1.65	63.9	V	3.0	-21.8	37.8	1.0	-56.6	-13.0	-45.6	
2.48	64.1	V	3.0	-17.4	38.5	1.0	-54.4	-13.0	-42.9	
3.31	64.9	V	3.0	-16.2	38.5	1.0	-53.7	-13.0	-40.7	
Mid Channel (836.6MHz)										
1.67	64.2	H	3.0	-21.7	37.8	1.0	-58.5	-13.0	-45.5	
2.51	64.8	H	3.0	-19.6	38.6	1.0	-57.2	-13.0	-44.2	
3.35	64.7	H	3.0	-15.6	38.5	1.0	-55.1	-13.0	-40.1	
1.67	64.1	V	3.0	-21.8	37.8	1.0	-58.7	-13.0	-45.7	
2.51	65.8	V	3.0	-20.4	38.6	1.0	-56.6	-13.0	-43.6	
3.35	65.2	V	3.0	-16.4	38.5	1.0	-53.9	-13.0	-40.9	
High Channel (846.6MHz)										
1.69	64.1	H	3.0	-21.6	37.9	1.0	-58.4	-13.0	-45.4	
2.54	65.1	H	3.0	-19.7	38.6	1.0	-57.1	-13.0	-44.1	
3.39	65.1	H	3.0	-16.5	38.5	1.0	-54.6	-13.0	-43.4	
1.69	64.2	V	3.0	-21.9	37.9	1.0	-58.7	-13.0	-45.7	
2.54	64.5	V	3.0	-19.8	38.6	1.0	-56.6	-13.0	-43.6	
3.39	65.1	V	3.0	-16.2	38.5	1.0	-53.7	-13.0	-40.7	

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WCDMA Band 5 HSDPA

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company:		Test Equipment:								
Project #:		Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Date:		Test Equipment:								
04/07/18		Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Test Equipment:		Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber E		3m Chamber E		Filter		EIRP				
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (HV)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1712.6MHz)										
3.47	65.1	H	3.0	-16.2	38.5	1.0	-53.7	-13.0	-40.7	
5.14	63.6	H	3.0	-19.5	38.7	1.0	-48.2	-13.0	-35.2	
6.85	64.5	H	3.0	-8.1	38.1	1.0	-45.2	-13.0	-32.9	
8.56	65.3	H	3.0	-13.3	37.7	1.0	-42.7	-13.0	-30.3	
3.47	64.9	V	3.0	-15.8	38.5	1.0	-53.4	-13.0	-40.4	
5.14	62.8	V	3.0	-9.9	38.7	1.0	-47.6	-13.0	-34.4	
6.85	65.2	V	3.0	-13.0	38.1	1.0	-44.3	-13.0	-31.3	
8.56	65.5	V	3.0	-8.3	37.0	1.0	-42.3	-13.0	-29.3	
3.47	65.2	V	3.0	-16.3	38.5	1.0	-53.5	-13.0	-40.8	
5.14	63.2	V	3.0	-10.3	38.7	1.0	-47.9	-13.0	-35.2	
6.85	64.1	V	3.0	-7.3	38.1	1.0	-44.4	-13.0	-31.4	
8.56	66.4	V	3.0	-11.3	38.1	1.0	-51.0	-13.0	-40.1	
3.51	64.9	V	3.0	-15.6	38.5	1.0	-53.1	-13.0	-40.1	
5.26	64.7	V	3.0	-11.7	38.1	1.0	-48.3	-13.0	-36.0	
7.01	65.4	V	3.0	-7.1	38.6	1.0	-44.4	-13.0	-32.1	
8.76	66.4	V	3.0	-11.3	38.1	1.0	-51.0	-13.0	-40.8	
3.51	64.9	V	3.0	-15.6	38.5	1.0	-53.1	-13.0	-40.3	
5.26	64.7	V	3.0	-11.7	38.1	1.0	-48.3	-13.0	-36.0	
7.01	65.4	V	3.0	-7.1	38.6	1.0	-44.4	-13.0	-32.1	
8.76	66.8	V	3.0	-6.8	36.9	1.0	-42.7	-13.0	-29.7	
High Channel (1732.6MHz)										
3.47	64.9	H	3.0	-15.4	38.5	1.0	-53.0	-13.0	-40.0	
5.26	64.7	H	3.0	-11.7	38.1	1.0	-48.0	-13.0	-35.8	
7.01	65.4	H	3.0	-7.1	38.6	1.0	-44.4	-13.0	-32.4	
8.76	66.4	H	3.0	-11.3	38.1	1.0	-51.0	-13.0	-39.7	
3.51	64.9	V	3.0	-15.6	38.5	1.0	-53.1	-13.0	-40.1	
5.26	64.7	V	3.0	-11.7	38.1	1.0	-48.3	-13.0	-36.0	
7.01	65.4	V	3.0	-7.1	38.6	1.0	-44.4	-13.0	-32.1	
8.76	66.4	V	3.0	-11.3	38.1	1.0	-51.0	-13.0	-39.7	
3.51	64.9	V	3.0	-15.6	38.5	1.0	-53.1	-13.0	-40.1	
5.										

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: Date: 04/06/18 Test Engineer: 10646 Configuration: EUT Only Mode: REL 99, 1900MHz										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber E		3m Chamber E		Filter		EIRP				
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (HV)	Distance (m)	EIRP @ TX Ant End (dBm)	Preamplifier	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.4MHz)										
3.70	-62.6	H	3.0	-12.7	38.6	1.0	-50.3	-13.0	-37.3	
5.26	-63.1	H	3.0	-9.7	38.6	1.0	-49.0	-13.0	-34.1	
7.41	-65.4	H	3.0	-7.7	37.8	1.0	-44.6	-13.0	-31.6	
3.70	-63.1	V	3.0	-15.2	38.6	1.0	-50.8	-13.0	-37.8	
5.55	-63.6	V	3.0	-9.8	38.6	1.0	-47.4	-13.0	-34.4	
7.42	-64.9	V	3.0	-7.4	37.8	1.0	-44.2	-13.0	-31.2	
Mid Channel (1880MHz)										
3.76	-62.3	H	3.0	-12.2	38.6	1.0	-49.5	-13.0	-36.5	
5.24	-64.1	H	3.0	-10.6	38.5	1.0	-48.7	-13.0	-35.2	
7.52	-66.1	H	3.0	-8.3	37.7	1.0	-45.0	-13.0	-32.0	
3.76	-62.9	V	3.0	-12.9	38.6	1.0	-50.5	-13.0	-37.5	
5.44	-64.9	V	3.0	-11.0	38.5	1.0	-48.5	-13.0	-35.5	
7.52	-65.0	V	3.0	-7.4	37.7	1.0	-44.1	-13.0	-31.1	
High Channel (1901.6MHz)										
3.76	-61.8	H	3.0	-11.6	38.7	1.0	-49.3	-13.0	-36.3	
5.72	-64.1	H	3.0	-9.7	38.5	1.0	-47.2	-13.0	-34.2	
7.66	-65.5	H	3.0	-7.5	37.7	1.0	-44.2	-13.0	-31.2	
3.70	-61.8	V	3.0	-11.6	38.7	1.0	-49.0	-13.0	-36.8	
5.72	-64.6	V	3.0	-10.5	38.5	1.0	-48.0	-13.0	-35.0	
7.63	-65.8	V	3.0	-8.0	37.7	1.0	-44.7	-13.0	-31.7	
WCDMA Band 4 Rel 99										
WCDMA Band 4 HSDPA										

9.2. FIELD STRENGTH OF SPURIOUS RADIATION (Ant 2)

9.2.1. GSM

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: Date: Test Engineer: Configuration: Mode:		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber	Pre-amplifier	Filter	Limit							
3m Chamber G	3m Chamber G	Filter	EIRP							
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (824.0MHz)										
1.65	61.7	H	3.0	-20.2	37.8	1.0	57.1	-13.0	-44.1	
1.67	63.7	H	3.0	-25.4	36.6	1.0	57.1	-13.0	-47.7	
3.30	68.5	H	3.0	-22.5	36.5	1.0	58.1	-13.0	-45.1	
1.65	62.6	V	3.0	-20.0	37.8	1.0	57.1	-13.0	-44.7	
2.47	66.7	V	3.0	-22.0	36.6	1.0	58.2	-13.0	-45.0	
3.30	67.8	V	3.0	-21.9	36.5	1.0	57.4	-13.0	-44.4	
Mid Channel (836.0MHz)										
1.67	47.1	H	3.0	-25.6	37.8	1.0	42.4	-13.0	-49.4	
2.51	42.7	H	3.0	-19.5	36.4	1.0	54.8	-13.0	-41.8	
3.35	48.5	H	3.0	-22.5	36.5	1.0	56.3	-13.0	-45.6	
1.67	47.8	V	3.0	-26.1	37.8	1.0	42.9	-13.0	-49.9	
2.51	66.7	V	3.0	-22.5	36.4	1.0	57.9	-13.0	-44.9	
3.35	69.1	V	3.0	-23.0	36.5	1.0	58.5	-13.0	-45.5	
High Channel (848.0MHz)										
1.70	66.9	H	3.0	-25.4	37.8	1.0	42.7	-13.0	-49.7	
2.47	43.7	H	3.0	-20.4	36.4	1.0	55.8	-13.0	-42.8	
3.40	69.3	H	3.0	-23.2	36.4	1.0	56.6	-13.0	-45.6	
1.70	47.7	V	3.0	-25.8	37.8	1.0	42.7	-13.0	-46.6	
2.47	45.2	V	3.0	-25.3	36.4	1.0	56.3	-13.0	-43.3	
3.40	68.8	V	3.0	-22.6	36.4	1.0	58.0	-13.0	-45.0	

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GSM 850MHz GPRS										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: Date: Test Engineer: Configuration: Mode:		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber	Pre-amplifier	Filter	Limit							
3m Chamber G	3m Chamber G	Filter	EIRP							
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1594.0MHz)										
3.76	47.1	H	3.0	-14.9	36.2	1.0	58.1	-13.0	-37.1	
5.55	68.4	H	3.0	-18.1	36.1	1.0	53.2	-13.0	-40.2	
7.40	70.2	H	3.0	-17.2	35.2	1.0	51.4	-13.0	-38.4	
5.70	62.3	V	3.0	-15.6	36.2	1.0	58.3	-13.0	-37.3	
5.55	67.8	V	3.0	-17.6	36.1	1.0	52.8	-13.0	-39.8	
7.40	71.0	V	3.0	-17.9	35.2	1.0	52.2	-13.0	-39.2	
Mid Channel (1880.0)										
3.76	58.7	H	3.0	-11.8	36.2	1.0	47.0	-13.0	-34.0	
5.64	68.3	H	3.0	-17.9	36.1	1.0	52.9	-13.0	-39.9	
7.52	69.7	H	3.0	-15.1	35.1	1.0	51.1	-13.0	-38.5	
3.76	69.2	V	3.0	-12.9	36.2	1.0	48.1	-13.0	-35.1	
5.64	66.6	V	3.0	-15.7	36.1	1.0	58.8	-13.0	-37.8	
7.52	76.6	V	3.0	-17.5	35.1	1.0	51.7	-13.0	-38.7	
High Channel (1909.8MHz)										
3.82	57.4	H	3.0	-10.4	36.1	1.0	45.5	-13.0	-32.5	
5.73	68.1	H	3.0	-16.1	36.1	1.0	51.7	-13.0	-40.7	
7.54	70.4	H	3.0	-17.2	36.1	1.0	51.3	-13.0	-38.3	
3.82	66.6	V	3.0	-13.1	36.1	1.0	48.3	-13.0	-35.3	
5.73	67.3	V	3.0	-16.9	36.1	1.0	51.9	-13.0	-38.9	
7.54	69.8	V	3.0	-16.7	35.1	1.0	58.8	-13.0	-37.8	

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GSM 1900MHz GPRS										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: Date: Test Engineer: Configuration: Mode:		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber	Pre-amplifier	Filter	Limit							
3m Chamber G	3m Chamber G	Filter	EIRP							
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1594.0MHz)										
3.76	63.1	H	3.0	-16.3	36.2	1.0	51.5	-13.0	-38.5	
5.55	67.4	H	3.0	-17.1	36.1	1.0	52.2	-13.0	-39.2	
7.40	70.0	H	3.0	-16.1	35.2	1.0	51.1	-13.0	-38.1	
3.76	63.2	V	3.0	-15.5	36.2	1.0	50.7	-13.0	-37.7	
5.55	68.2	V	3.0	-10.1	36.1	1.0	53.3	-13.0	-40.3	
7.40	69.3	V	3.0	-16.3	35.2	1.0	50.6	-13.0	-37.6	
Mid Channel (1880.0)										
3.76	60.1	H	3.0	-13.2	36.2	1.0	48.4	-13.0	-35.4	
5.64	69.9	H	3.0	-18.3	36.1	1.0	53.6	-13.0	-40.8	
7.52	71.2	H	3.0	-15.0	35.1	1.0	52.9	-13.0	-37.2	
3.76	61.5	V	3.0	-14.2	36.2	1.0	49.4	-13.0	-36.4	
5.64	69.3	V	3.0	-19.0	36.1	1.0	54.1	-13.0	-41.1	
7.52	71.1	V	3.0	-18.0	35.1	1.0	52.1	-13.0	-38.1	
High Channel (1909.8MHz)										
3.82	57.7	H	3.0	-10.7	36.1	1.0	45.8	-13.0	-32.8	
5.73	68.5	H	3.0	-17.8	36.1	1.0	52.9	-13.0	-39.9	
7.54	71.4	H	3.0	-18.2	35.1	1.0	52.3	-13.0	-39.3	
3.82	67.9	V	3.0	-13.5	36.1	1.0	48.1	-13.0	-35.8	
5.73	68.2	V	3.0	-17.8	36.1	1.0	52.9	-13.0	-39.9	
7.54	70.6	V	3.0	-17.5	35.1	1.0	51.6	-13.0	-38.6	

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GSM 1900MHz EGPRS										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: Date: Test Engineer: Configuration: Mode:		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber	Pre-amplifier	Filter	Limit							
3m Chamber G	3m Chamber G	Filter	EIRP							
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1594.0MHz)										
3.76	63.1	H	3.0	-16.3	36.2	1.0	51.5	-13.0	-38.5	
5.55	67.4	H	3.0	-17.1	36.1	1.0	52.2	-13.0	-39.2	
7.40	70.0	H	3.0	-16.1	35.2	1.0	51.1	-13.0	-38.1	
3.76	63.2	V	3.0	-15.5	36.2	1.0	50.7	-13.0	-37.7	
5.55	68.2	V	3.0	-10.1	36.1	1.0	53.3	-13.0	-40.3	
7.40	69.3	V	3.0	-16.3	35.2	1.0	50.6	-13.0	-37.6	
Mid Channel (1880.0)										
3.76	60.1	H	3.0	-13.2	36.2	1.0	48.4	-13.0	-35.4	
5.64	69.9	H	3.0	-18.3	36.1	1.0	53.6	-13.0	-40.8	
7.52	71.2	H	3.0	-15.0	35.1	1.0	52.9	-13.0	-37.2	
3.76	61.5	V	3.0	-14.2	36.2	1.0	49.4	-13.0	-36.4	
5.64	69.3	V	3.0	-19.0	36.1	1.0	54.1	-13.0	-41.1	
7.52	71.1	V	3.0	-18.0	35.1	1.0	52.1	-13.0	-38.1	
High Channel (1909.8MHz)										
3.82	57.7	H	3.0	-10.7	36.1	1.0	45.8	-13.0	-32.8	
5.73	68.5	H	3.0	-17.8	36.1	1.0	52.9	-13.0	-39.9	
7.54	71.4	H	3.0	-18.2	35.1	1.0	52.3	-13.0	-39.3	
3.82	67.9	V	3.0	-13.5	36.1	1.0	48.1	-13.0	-35.8	
5.73	68.2	V	3.0	-17.8	36.1	1.0	52.9	-13.0	-39.9	
7.54	70.6	V	3.0	-17.5	35.1	1.0	51.6	-13.0	-38.6	

9.2.2. CDMA

High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable											
Chamber		Pre-amplifier		Filter		Limit					
3m Chamber G	3m Chamber G	3m Chamber G	3m Chamber G	Filter	Filter	EIRP				EIRP	
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (817.25MHz)											
1.63	66.4	H	3.0	-25.0	37.8	1.0	61.3	-13.0	-48.9		
2.46	65.8	H	3.0	-23.7	37.7	1.0	59.5	-13.0	-46.5		
3.27	67.9	H	3.0	-22.1	36.5	1.0	57.6	-13.0	-44.6		
1.63	65.4	V	3.0	-23.6	37.8	1.0	60.5	-13.0	-47.5		
2.45	62.9	V	3.0	-18.8	36.7	1.0	54.5	-13.0	-41.3		
3.27	65.1	V	3.0	-22.3	36.5	1.0	54.7	-13.0	-44.8		
Mid Channel (820MHz)											
1.63	55.1	H	3.0	-23.7	37.8	1.0	60.5	-13.0	-47.5		
2.46	67.8	H	3.0	-24.7	36.7	1.0	60.3	-13.0	-47.3		
3.28	67.3	H	3.0	-21.5	36.5	1.0	57.0	-13.0	-44.0		
1.63	66.9	V	3.0	-24.1	37.8	1.0	61.1	-13.0	-46.9		
2.46	65.7	V	3.0	-21.8	37.7	1.0	57.4	-13.0	-44.4		
3.28	68.4	V	3.0	-22.6	36.5	1.0	58.1	-13.0	-45.1		
High Channel (822.75MHz)											
1.65	66.0	H	3.0	-24.5	37.8	1.0	61.4	-13.0	-48.4		
2.47	67.0	H	3.0	-23.8	36.6	1.0	59.4	-13.0	-46.4		
3.29	67.1	H	3.0	-21.7	36.5	1.0	56.7	-13.0	-43.7		
1.65	66.6	V	3.0	-24.9	37.8	1.0	61.7	-13.0	-48.7		
2.47	67.1	V	3.0	-23.1	36.6	1.0	58.7	-13.0	-45.7		
3.29	67.7	V	3.0	-21.8	36.5	1.0	57.4	-13.0	-44.4		
Rev. 03.19.15											
CDMA BC10 1xRTT											
High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable											
Chamber		Pre-amplifier		Filter		Limit					
3m Chamber G	3m Chamber G	3m Chamber G	3m Chamber G	Filter	Filter	EIRP				EIRP	
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (824.1MHz)											
1.65	65.6	H	3.0	-24.2	37.8	1.0	61.0	-13.0	-48.0		
2.47	66.6	H	3.0	-23.5	36.6	1.0	59.1	-13.0	-46.1		
3.30	67.1	H	3.0	-21.5	36.5	1.0	56.7	-13.0	-43.7		
1.65	66.3	V	3.0	-23.2	37.8	1.0	62.9	-13.0	-48.9		
2.47	67.3	V	3.0	-21.2	36.6	1.0	58.8	-13.0	-45.8		
3.30	66.8	V	3.0	-20.9	36.5	1.0	56.4	-13.0	-43.4		
Mid Channel (826.5MHz)											
1.67	66.2	H	3.0	-24.7	37.8	1.0	61.5	-13.0	-48.5		
2.51	67.1	H	3.0	-23.9	36.4	1.0	59.3	-13.0	-46.3		
3.35	68.0	H	3.0	-22.0	36.5	1.0	57.5	-13.0	-44.5		
1.67	66.7	V	3.0	-24.5	37.8	1.0	61.3	-13.0	-48.3		
2.51	65.2	V	3.0	-20.9	36.4	1.0	56.3	-13.0	-43.3		
3.35	67.5	V	3.0	-21.5	36.5	1.0	56.9	-13.0	-43.9		
High Channel (848.31MHz)											
1.70	65.5	H	3.0	-24.0	37.8	1.0	60.8	-13.0	-47.8		
2.54	67.6	H	3.0	-24.2	36.4	1.0	59.6	-13.0	-46.6		
3.39	67.1	H	3.0	-23.0	36.4	1.0	57.2	-13.0	-44.7		
1.70	66.5	V	3.0	-24.7	37.8	1.0	61.5	-13.0	-48.5		
2.54	68.0	V	3.0	-23.7	36.4	1.0	59.1	-13.0	-46.1		
3.39	68.3	V	3.0	-22.1	36.4	1.0	57.5	-13.0	-44.5		
Rev. 03.19.15											
CDMA BC0 1xRTT											
High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable											
Chamber		Pre-amplifier		Filter		Limit					
3m Chamber E	3m Chamber E	3m Chamber E	3m Chamber E	Filter	Filter	EIRP				EIRP	
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (824.1MHz)											
1.65	-41.9	H	3.0	-19.3	37.8	1.0	-56.2	-13.0	-43.2		
2.47	-65.5	H	3.0	-20.5	38.5	1.0	-58.0	-13.0	-45.0		
3.30	-65.5	H	3.0	-18.2	38.5	1.0	-54.6	-13.0	-41.6		
1.65	-41.9	V	3.0	-19.8	37.8	1.0	-54.0	-13.0	-37.6		
2.47	-65.7	V	3.0	-20.6	38.5	1.0	-58.0	-13.0	-45.0		
3.30	-66.3	V	3.0	-17.6	38.5	1.0	-55.1	-13.0	-42.1		
Mid Channel (836.5MHz)											
1.67	-66.3	H	3.0	-23.8	37.8	1.0	-60.6	-13.0	-47.6		
2.51	-67.4	H	3.0	-22.7	38.5	1.0	-58.0	-13.0	-45.7		
3.35	-66.9	H	3.0	-17.8	38.5	1.0	-55.3	-13.0	-42.3		
1.67	-57.8	V	3.0	-15.6	37.8	1.0	-52.4	-13.0	-39.4		
2.51	-66.4	V	3.0	-21.0	38.6	1.0	-58.6	-13.0	-45.6		
3.35	-65.8	V	3.0	-17.0	38.5	1.0	-54.5	-13.0	-41.5		
High Channel (848.31MHz)											
1.70	-61.0	H	3.0	-23.5	37.9	1.0	-60.3	-13.0	-47.3		
2.54	-66.7	H	3.0	-21.3	38.6	1.0	-58.9	-13.0	-45.9		
3.39	-66.2	H	3.0	-17.0	38.5	1.0	-54.5	-13.0	-41.5		
1.70	-65.3	V	3.0	-20.5	37.9	1.0	-60.0	-13.0	-47.7		
2.54	-65.1	V	3.0	-20.5	38.6	1.0	-58.1	-13.0	-45.1		
3.39	-67.0	V	3.0	-18.0	38.5	1.0	-55.5	-13.0	-42.5		
Rev. 03.19.15											
CDMA BC0 1xEV-DO Rev A											

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: 04/15/18 Date: 12491 Test Engineer: EUT only Configuration: Rev C/A 1900MHz Mode: 1xRTT 1900MHz										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber G	3m Chamber G	Filter		EIRP						
Frequency	SA reading	Ant. Pol.	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1851.25MHz)										
3.70	-65.1	H	3.0	-18.3	36.2	1.0	-53.6	-13.0	-48.6	
5.65	-63.7	H	3.0	-15.2	36.1	1.0	-48.3	-13.0	-35.3	
7.41	-68.9	H	3.0	-15.8	35.2	1.0	-50.0	-13.0	-37.0	
3.70	-64.7	V	3.0	-17.6	36.2	1.0	-52.8	-13.0	-39.8	
5.55	-67.1	V	3.0	-17.0	36.1	1.0	-52.1	-13.0	-39.1	
7.41	-68.8	V	3.0	-16.8	35.2	1.0	-50.0	-13.0	-37.8	
Mid Channel (1880MHz)										
3.70	-65.1	H	3.0	-18.2	36.2	1.0	-53.4	-13.0	-49.4	
5.64	-68.1	H	3.0	-17.6	36.1	1.0	-52.7	-13.0	-39.7	
7.52	-69.3	H	3.0	-16.2	35.1	1.0	-50.3	-13.0	-37.3	
3.70	-61.3	V	3.0	-16.9	36.2	1.0	-49.6	-13.0	-36.8	
5.64	-61.5	V	3.0	-17.3	36.1	1.0	-52.1	-13.0	-39.4	
7.52	-68.2	V	3.0	-15.1	35.1	1.0	-49.2	-13.0	-36.2	
High Channel (1908.75MHz)										
3.82	-61.4	H	3.0	-14.4	36.1	1.0	-49.6	-13.0	-36.6	
5.73	-67.8	H	3.0	-17.2	36.1	1.0	-52.3	-13.0	-39.3	
7.64	-68.8	H	3.0	-15.9	35.0	1.0	-49.5	-13.0	-36.2	
3.82	-62.3	V	3.0	-14.9	36.1	1.0	-49.1	-13.0	-36.9	
5.73	-68.2	V	3.0	-17.7	36.1	1.0	-52.8	-13.0	-39.8	
7.64	-69.0	V	3.0	-15.7	35.0	1.0	-49.8	-13.0	-36.8	

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CDMA BC1 1xRTT

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: 05/05/18 Date: 12491 Test Engineer: EUT only Configuration: Rev C/A 1900MHz Mode:										
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable										
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber G	3m Chamber G	Filter		EIRP						
Frequency	SA reading	Ant. Pol.	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1851.25MHz)										
3.70	-61.1	H	3.0	-10.3	36.2	1.0	-48.6	-13.0	-35.6	
5.55	-44.1	H	3.0	-13.8	36.1	1.0	-48.9	-13.0	-35.9	
7.41	-65.1	H	3.0	-12.0	35.2	1.0	-46.3	-13.0	-33.3	
3.70	-63.3	V	3.0	-16.3	36.2	1.0	-51.2	-13.0	-36.5	
5.55	-47.2	V	3.0	-15.9	36.1	1.0	-50.2	-13.0	-37.2	
7.41	-67.4	V	3.0	-14.4	35.2	1.0	-48.6	-13.0	-35.6	
Mid Channel (1880MHz)										
3.76	-61.5	H	3.0	-14.6	36.2	1.0	-48.8	-13.0	-36.8	
5.64	-64.8	H	3.0	-14.4	36.1	1.0	-49.5	-13.0	-36.5	
7.52	-67.1	H	3.0	-15.8	35.1	1.0	-47.7	-13.0	-34.7	
3.76	-62.8	V	3.0	-15.5	36.2	1.0	-50.6	-13.0	-37.6	
5.64	-65.6	V	3.0	-15.3	36.1	1.0	-50.4	-13.0	-37.4	
7.52	-67.0	V	3.0	-13.9	35.1	1.0	-48.0	-13.0	-35.0	
High Channel (1908.75MHz)										
3.82	-42.6	H	3.0	-15.6	36.1	1.0	-50.8	-13.0	-37.8	
5.73	-41.1	H	3.0	-15.5	36.1	1.0	-50.5	-13.0	-37.5	
7.64	-46.6	H	3.0	-13.3	35.0	1.0	-47.4	-13.0	-34.4	
3.82	-41.4	V	3.0	-13.9	36.1	1.0	-49.0	-13.0	-36.0	
5.73	-44.4	V	3.0	-14.8	35.1	1.0	-49.3	-13.0	-36.9	
7.64	-49.0	V	3.0	-12.8	35.0	1.0	-48.8	-13.0	-33.8	

Rev. 03 19.15

CDMA BC1 1xEV-DO Rev A

9.2.3. WCDMA

High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company: Project #: Date: Test Engineer: Configuration: Mode:		404718 10649 EUT Only REL 99, 850MHz		404718 10649 EUT Only HSDPA 850MHz		404718 10649 EUT Only HSDPA 850MHz		High Frequency Substitution Measurement UL Fremont Radiated Chamber			
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable											
Chamber	Pre-amplifier	Filter	Limit	Chamber	Pre-amplifier	Filter	Limit	Chamber	Pre-amplifier	Filter	Limit
3m Chamber E	3m Chamber E	Filter	EIRP	3m Chamber E	3m Chamber E	Filter	EIRP	3m Chamber E	3m Chamber E	Filter	EIRP
Frequency	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	Notes
Low Channel (826.8MHz)											
1.65	-64.9	H	3.0	-22.4	37.8	1.0	-59.3	-13.0	-46.3		
2.48	-64.7	H	3.0	-19.7	38.5	1.0	-60.2	-13.0	-44.2		
3.31	-66.7	H	3.0	-17.8	38.5	1.0	-55.3	-13.0	-42.3		
1.65	-64.8	V	3.0	-22.6	37.8	1.0	-59.4	-13.0	-46.4		
2.48	-68.2	V	3.0	-21.0	38.5	1.0	-58.3	-13.0	-45.3		
3.31	-64.9	V	3.0	-19.2	38.5	1.0	-56.6	-13.0	-42.8		
Mid Channel (836.8MHz)											
1.67	-66.5	H	3.0	-24.2	37.8	1.0	-61.1	-13.0	-48.1		
2.51	-67.8	H	3.0	-22.4	38.6	1.0	-60.2	-13.0	-47.2		
3.35	-69.5	H	3.0	-20.5	38.5	1.0	-58.8	-13.0	-45.0		
1.67	-66.1	V	3.0	-22.2	37.8	1.0	-60.9	-13.0	-47.1		
2.51	-67.5	V	3.0	-22.1	38.6	1.0	-59.7	-13.0	-46.7		
3.35	-68.1	V	3.0	-19.3	38.5	1.0	-56.8	-13.0	-43.8		
High Channel (846.8MHz)											
1.69	-65.3	H	3.0	-22.8	37.9	1.0	-59.6	-13.0	-46.6		
2.54	-67.8	H	3.0	-22.4	38.8	1.0	-60.8	-13.0	-47.0		
3.39	-68.0	H	3.0	-19.5	38.5	1.0	-56.4	-13.0	-44.4		
1.69	-66.5	V	3.0	-24.1	37.9	1.0	-61.0	-13.0	-48.0		
2.54	-67.4	V	3.0	-21.9	38.6	1.0	-59.4	-13.0	-46.4		
3.39	-68.6	V	3.0	-19.7	38.5	1.0	-57.2	-13.0	-44.2		
Rev. 03.19.15											
WCDMA Band 5 Rel 99											
High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company: Project #: Date: Test Engineer: Configuration: Mode:		404718 10649 EUT Only REL 99, 1900MHz		404718 10649 EUT Only HSDPA 1900Hz		404718 10649 EUT Only HSDPA 1900Hz		High Frequency Substitution Measurement UL Fremont Radiated Chamber			
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable											
Chamber	Pre-amplifier	Filter	Limit	Chamber	Pre-amplifier	Filter	Limit	Chamber	Pre-amplifier	Filter	Limit
3m Chamber E	3m Chamber E	Filter	EIRP	3m Chamber E	3m Chamber E	Filter	EIRP	3m Chamber E	3m Chamber E	Filter	EIRP
Frequency	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	Notes
Low Channel (1852.8MHz)											
3.70	-64.7	H	3.0	-13.7	38.6	1.0	-52.3	-13.0	-39.3		
5.56	-67.3	H	3.0	-13.2	38.6	1.0	-50.8	-13.0	-37.8		
7.41	-70.6	H	3.0	-12.7	37.8	1.0	-48.8	-13.0	-36.0		
7.52	-65.3	V	3.0	-15.4	38.6	1.0	-52.0	-13.0	-36.2		
5.55	-67.4	V	3.0	-13.7	38.6	1.0	-51.3	-13.0	-38.3		
7.42	-69.7	V	3.0	-12.2	37.8	1.0	-49.0	-13.0	-36.0		
Mid Channel (1880.8MHz)											
3.76	-63.8	H	3.0	-13.7	38.6	1.0	-51.4	-13.0	-38.4		
5.54	-68.1	H	3.0	-13.5	38.5	1.0	-51.0	-13.0	-38.3		
7.52	-70.2	H	3.0	-12.4	37.7	1.0	-49.2	-13.0	-36.2		
3.76	-64.4	V	3.0	-14.4	38.6	1.0	-52.0	-13.0	-39.0		
5.64	-68.0	V	3.0	-14.1	38.5	1.0	-51.6	-13.0	-38.6		
7.52	-70.5	V	3.0	-12.8	37.7	1.0	-49.6	-13.0	-36.6		
High Channel (1907.6MHz)											
3.70	-65.1	H	3.0	-15.5	38.7	1.0	-51.1	-13.0	-44.1		
5.72	-67.3	H	3.0	-12.9	38.5	1.0	-50.4	-13.0	-37.4		
7.66	-70.5	H	3.0	-12.5	37.7	1.0	-49.2	-13.0	-36.2		
3.82	-66.1	V	3.0	-15.9	38.7	1.0	-53.5	-13.0	-40.5		
5.72	-67.5	V	3.0	-13.4	38.5	1.0	-50.3	-13.0	-37.9		
7.63	-69.5	V	3.0	-11.8	37.7	1.0	-48.5	-13.0	-35.5		
Rev. 03.19.15											
WCDMA Band 2 Rel 99											
High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company: Project #: Date: Test Engineer: Configuration: Mode:		404718 10649 EUT Only REL 99, 1900MHz		404718 10649 EUT Only HSDPA 1900Hz		404718 10649 EUT Only HSDPA 1900Hz		High Frequency Substitution Measurement UL Fremont Radiated Chamber			
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable											
Chamber	Pre-amplifier	Filter	Limit	Chamber	Pre-amplifier	Filter	Limit	Chamber	Pre-amplifier	Filter	Limit
3m Chamber E	3m Chamber E	Filter	EIRP	3m Chamber E	3m Chamber E	Filter	EIRP	3m Chamber E	3m Chamber E	Filter	EIRP
Frequency	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	Notes
Low Channel (1852.8MHz)											
3.70	-66.5	H	3.0	-16.6	38.6	1.0	-54.2	-13.0	-41.2		
5.56	-67.5	H	3.0	-13.4	38.6	1.0	-51.0	-13.0	-38.0		
7.41	-71.4	H	3.0	-11.7	37.8	1.0	-48.7	-13.0	-35.7		
9.26	-72.8	H	3.0	-12.9	38.5	1.0	-48.5	-13.0	-35.5		
3.70	-64.6	V	3.0	-14.8	38.6	1.0	-52.4	-13.0	-39.4		
5.56	-68.5	V	3.0	-14.8	38.6	1.0	-52.4	-13.0	-39.4		
7.41	-69.4	V	3.0	-12.9	37.8	1.0	-48.8	-13.0	-35.8		
9.26	-71.5	V	3.0	-11.6	38.6	1.0	-47.2	-13.0	-34.2		
Mid Channel (1880.8MHz)											
3.76	-64.6	H	3.0	-14.5	38.6	1.0	-52.1	-13.0	-39.1		
5.64	-67.4	H	3.0	-13.1	38.5	1.0	-50.7	-13.0	-37.7		
7.52	-69.4	H	3.0	-11.8	37.7	1.0	-48.5	-13.0	-35.3		
9.40	-71.3	H	3.0	-11.3	38.5	1.0	-48.8	-13.0	-33.8		
3.76	-64.9	V	3.0	-14.8	38.6	1.0	-52.4	-13.0	-39.4		
5.64	-67.0	V	3.0	-13.1	38.5	1.0	-50.6	-13.0	-37.6		
7.52	-69.5	V	3.0	-11.8	37.7	1.0	-48.8	-13.0	-35.4		
9.40	-71.6	V	3.0	-11.8	38.5	1.0	-47.1	-13.0	-34.1		
High Channel (1907.6MHz)											
3.82	-66.4	H	3.0	-16.1	38.7	1.0	-53.8	-13.0	-40.8		
5.72	-67.2	H	3.0	-12.8	38.5	1.0	-50.3	-13.0	-37.3		
7.63	-69.7	H	3.0	-11.8	37.7	1.0	-48.5	-13.0	-35.5		
9.54	-72.1	H	3.0	-11.3	38.4	1.0	-47.0	-13.0	-34.3		
3.82	-65.7	V	3.0	-15.5	38.7	1.0	-53.1	-13.0	-40.1		
5.72	-67.9	V	3.0	-13.8	38.5	1.0	-51.3	-13.0	-38.3		
7.63	-70.5	V	3.0	-12.7	37.7	1.0	-49.1	-13.0	-36.4		
9.54	-72.0	V	3.0	-11.9	38.4	1.0	-47.3	-13.0	-34.3		
Rev. 03.19.15											
WCDMA Band 2 HSDPA											
High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company: Project #: Date: Test Engineer: Configuration: Mode:		404718 10649 EUT Only REL 99, 1900MHz		404718 10649 EUT Only HSDPA 1900Hz		404718 10649 EUT Only HSDPA 1900Hz		High Frequency Substitution Measurement UL Fremont Radiated Chamber			
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable											
Chamber	Pre-amplifier	Filter	Limit	Chamber	Pre-amplifier	Filter	Limit	Chamber	Pre-amplifier	Filter	Limit
3m Chamber E	3m Chamber E	Filter	EIRP	3m Chamber E	3m Chamber E	Filter	EIRP	3m Chamber E	3m Chamber E	Filter	EIRP
Frequency	SA reading (dBm)	Ant.									

High Frequency Substitution Measurement UL Fremont Radiated Chamber											
Company: Project #: 04/27/18 Date: 10649 Test Engineer: 10649 Configuration: EUT Only Mode: REL 99, 1700MHz		High Frequency Substitution Measurement UL Fremont Radiated Chamber									
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable									
Chamber		Pre-amplifier		Filter		Limit					
3m Chamber E		3m Chamber E		Filter		EIRP					
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes	
Low Channel (1712.4MHz)										Rev. 03.19.15	
3.42	-70.0	H	3.0	-20.7	38.5	1.0	-58.3	-13.0	-45.3		
5.14	-47.7	H	3.0	-19.1	38.7	1.0	-51.6	-13.0	-38.9		
6.85	-48.7	H	3.0	-19.8	38.1	1.0	-49.6	-13.0	-39.0		
8.56	-69.8	H	3.0	-10.7	37.1	1.0	-46.8	-13.0	-33.8		
3.42	-69.2	V	3.0	-20.2	38.5	1.0	-57.7	-13.0	-44.7		
5.14	-69.9	V	3.0	-19.7	38.7	1.0	-50.1	-13.0	-37.7		
6.85	-69.2	V	3.0	-12.6	38.1	1.0	-49.7	-13.0	-36.7		
8.56	-71.4	V	3.0	-12.5	37.1	1.0	-48.5	-13.0	-35.5		
Mid Channel (1732.6MHz)											
3.47	-67.5	H	3.0	-18.1	38.5	1.0	-55.6	-13.0	-42.6	Rev. 03.19.15	
5.20	-68.0	H	3.0	-19.1	38.7	1.0	-52.4	-13.0	-39.4		
6.93	-69.1	H	3.0	-19.1	38.1	1.0	-49.3	-13.0	-39.2		
8.66	-71.6	H	3.0	-12.4	37.0	1.0	-48.4	-13.0	-35.4		
3.47	-67.0	V	3.0	-17.8	38.5	1.0	-55.3	-13.0	-42.3		
5.20	-67.0	V	3.0	-19.1	38.7	1.0	-51.7	-13.0	-38.7		
6.93	-69.4	V	3.0	-12.6	38.1	1.0	-49.7	-13.0	-36.7		
8.66	-71.5	V	3.0	-12.5	37.0	1.0	-48.5	-13.0	-35.5		
High Channel (1752.6MHz)											
3.51	-69.5	H	3.0	-20.0	38.5	1.0	-57.5	-13.0	-44.5	Rev. 03.19.15	
5.26	-66.7	H	3.0	-13.3	38.7	1.0	-50.8	-13.0	-37.9		
7.01	-68.5	H	3.0	-13.0	38.1	1.0	-48.4	-13.0	-34.4		
8.76	-71.5	H	3.0	-12.2	38.9	1.0	-48.1	-13.0	-35.1		
3.51	-69.2	V	3.0	-19.9	38.5	1.0	-57.4	-13.0	-44.4		
5.26	-68.8	V	3.0	-13.0	38.7	1.0	-52.6	-13.0	-37.9		
7.01	-68.3	V	3.0	-11.4	38.1	1.0	-48.5	-13.0	-35.5		
8.76	-71.2	V	3.0	-12.0	38.9	1.0	-48.0	-13.0	-35.0		
WCDMA Band 4 Rel 99											
WCDMA Band 4 HSDPA											

9.3. FIELD STRENGTH OF SPURIOUS RADIATION (Ant 3)

9.3.1. GSM

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: 041718 Date: 12482 Test Engineer: EUT only Configuration: Mode: GPRS 1900MHz		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber G		3m Chamber G		Filter		EIRP			EIRP	
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preampl	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1850.2MHz)										
3.70	68.5	H	3.0	-21.8	36.2	1.0	-57.0	-13.0	-44.0	
5.55	69.0	H	3.0	-18.6	36.1	1.0	-53.8	-13.0	-40.8	
7.40	68.3	H	3.0	-21.5	35.2	1.0	-56.1	-13.0	-37.1	
7.70	69.0	V	3.0	-21.9	36.2	1.0	-52.1	-13.0	-44.1	
5.55	67.7	V	3.0	-17.6	36.1	1.0	-52.7	-13.0	-39.7	
7.40	70.2	V	3.0	-17.2	35.2	1.0	-51.4	-13.0	-38.4	
Mid Channel (1880.0MHz)										
3.76	69.1	H	3.0	-22.2	36.2	1.0	-57.4	-13.0	-44.4	
5.54	70.1	H	3.0	-24.1	36.1	1.0	-59.5	-13.0	-42.2	
7.52	68.7	H	3.0	-15.5	35.1	1.0	-59.7	-13.0	-36.7	
3.76	68.2	V	3.0	-20.9	36.2	1.0	-56.1	-13.0	-43.1	
5.64	69.3	V	3.0	-19.1	36.1	1.0	-54.2	-13.0	-41.2	
7.52	70.6	V	3.0	-17.5	35.1	1.0	-51.6	-13.0	-38.6	
High Channel (1900.8MHz)										
3.73	67.3	H	3.0	-29.6	36.1	1.0	-55.8	-13.0	-42.8	
5.73	69.3	H	3.0	-17.6	36.1	1.0	-52.7	-13.0	-39.7	
7.54	69.4	H	3.0	-16.2	35.1	1.0	-59.4	-13.0	-37.4	
3.82	68.2	V	3.0	-29.7	36.1	1.0	-55.9	-13.0	-42.9	
5.63	68.4	V	3.0	-18.4	36.1	1.0	-53.1	-13.0	-40.8	
7.54	70.2	V	3.0	-17.1	35.1	1.0	-51.2	-13.0	-38.2	

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High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: 041718 Date: 12482 Test Engineer: EUT only Configuration: Mode: EGPRS 1900MHz		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber G		3m Chamber G		Filter		EIRP			EIRP	
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preampl	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1850.2MHz)										
3.70	68.8	H	3.0	-22.1	36.2	1.0	-57.3	-13.0	-44.3	
5.55	68.5	H	3.0	-18.2	36.1	1.0	-53.3	-13.0	-40.3	
7.40	68.1	H	3.0	-16.7	35.2	1.0	-50.9	-13.0	-37.9	
3.70	69.1	V	3.0	-22.0	36.2	1.0	-57.2	-13.0	-44.2	
5.55	67.6	V	3.0	-17.5	36.1	1.0	-52.6	-13.0	-39.6	
7.40	69.3	V	3.0	-16.3	35.2	1.0	-50.5	-13.0	-37.5	
Mid Channel (1880.0)										
3.76	69.1	H	3.0	-21.6	36.2	1.0	-57.0	-13.0	-44.4	
5.54	69.0	H	3.0	-18.5	36.1	1.0	-53.6	-13.0	-40.6	
7.52	69.5	H	3.0	-16.3	35.1	1.0	-50.4	-13.0	-37.4	
3.76	68.2	V	3.0	-21.9	36.2	1.0	-56.2	-13.0	-43.2	
5.54	69.2	V	3.0	-18.9	36.1	1.0	-53.2	-13.0	-39.0	
7.52	69.1	V	3.0	-16.0	35.1	1.0	-50.1	-13.0	-37.1	
High Channel (1900.8MHz)										
3.82	68.6	H	3.0	-21.6	36.1	1.0	-56.7	-13.0	-43.7	
5.73	69.4	H	3.0	-18.8	36.1	1.0	-53.8	-13.0	-40.8	
7.55	71.5	H	3.0	-18.3	35.1	1.0	-52.3	-13.0	-39.4	
3.82	68.6	V	3.0	-21.1	36.1	1.0	-56.3	-13.0	-43.1	
5.73	69.4	V	3.0	-19.0	36.1	1.0	-54.0	-13.0	-41.0	
7.54	70.0	V	3.0	-16.9	35.1	1.0	-51.0	-13.0	-38.0	

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GSM 1900MHz EGPRS

9.3.2. WCDMA

High Frequency Substitution Measurement UL Fremont Radiated Chamber																																																																																																													
Company: Project #: Date: 04/07/18 Test Engineer: 10646 Configuration: EUT Only Mode: REL 99, 1900MHz																																																																																																													
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable																																																																																																													
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Frequency	SA reading	Ant. Pol.	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes																																																																																																			
3.76	-66.2	H	3.0	-16.4	34.4	1.0	-49.9	-13.0	-36.9																																																																																																				
5.56	-68.2	H	3.0	-14.7	34.1	1.0	-47.9	-13.0	-34.9																																																																																																				
7.41	-70.3	H	3.0	-13.9	33.8	1.0	-46.6	-13.0	-33.1																																																																																																				
3.76	-65.1	V	3.0	-15.2	34.4	1.0	-46.5	-13.0	-35.6																																																																																																				
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7.42	-70.3	V	3.0	-14.2	33.6	1.0	-46.8	-13.0	-33.8																																																																																																				
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3.76	-66.3	H	3.0	-15.3	34.4	1.0	-48.7	-13.0	-35.7																																																																																																				
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7.52	-69.3	V	3.0	-13.5	33.5	1.0	-46.5	-13.0	-33.0																																																																																																				
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3.76	-65.3	H	3.0	-15.1	34.4	1.0	-48.5	-13.0	-35.5																																																																																																				
5.56	-68.3	H	3.0	-14.0	34.1	1.0	-47.1	-13.0	-34.1																																																																																																				
7.56	-69.9	H	3.0	-13.3	33.4	1.0	-45.7	-13.0	-32.7																																																																																																				
3.76	-63.9	V	3.0	-13.8	34.4	1.0	-47.0	-13.0	-34.2																																																																																																				
5.52	-65.0	V	3.0	-13.1	34.1	1.0	-47.2	-13.0	-34.2																																																																																																				
7.63	-69.8	V	3.0	-13.4	33.4	1.0	-45.9	-13.0	-32.9																																																																																																				
High Channel (1907 MHz)																																																																																																													
3.76	-65.3	H	3.0	-15.1	34.4	1.0	-48.5	-13.0	-35.5																																																																																																				
5.72	-67.7	H	3.0	-14.0	34.1	1.0	-47.1	-13.0	-34.1																																																																																																				
7.66	-69.9	H	3.0	-13.3	33.4	1.0	-45.7	-13.0	-32.7																																																																																																				
3.81	-63.9	V	3.0	-13.8	34.4	1.0	-47.0	-13.0	-34.2																																																																																																				
5.72	-65.0	V	3.0	-13.1	34.1	1.0	-47.2	-13.0	-34.2																																																																																																				
7.63	-69.8	V	3.0	-13.4	33.4	1.0	-45.9	-13.0	-32.9																																																																																																				
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Frequency	SA reading	Ant. Pol.	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes																																																																																																			
3.42	-69.8	H	3.0	-21.2	34.6	1.0	-54.8	-13.0	-41.8																																																																																																				
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8.66	-70.9	V	3.0	-13.2	32.7	1.0	-44.9	-13.0	-31.9																																																																																																				
Low Channel (1712 MHz)																																																																																																													
3.42	-69.8	H	3.0	-21.2	34.6	1.0	-54.8	-13.0	-41.8																																																																																																				
5.20	-66.7	H	3.0	-13.8	34.2	1.0	-47.0	-13.0	-34.0																																																																																																				
6.93	-69.7	H	3.0	-14.0	33.9	1.0	-46.9	-13.0	-33.9																																																																																																				
8.66	-71.3	H	3.0	-13.5	32.5	1.0	-45.7	-13.0	-31.9																																																																																																				
3.47	-67.2	V	3.0	-18.2	34.6	1.0	-51.7	-13.0	-38.7																																																																																																				
5.20	-67.6	V	3.0	-14.4	34.2	1.0	-47.6	-13.0	-34.6																																																																																																				
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8.66	-71.3	V	3.0	-15.5	32.6	1.0	-45.1	-13.0	-32.1																																																																																																				
Mid Channel (1732 MHz)																																																																																																													
3.47	-66.4	H	3.0	-17.5	34.6	1.0	-51.1	-13.0	-38.1																																																																																																				
5.20	-66.7	H	3.0	-13.8	34.2	1.0	-47.0	-13.0	-34.0																																																																																																				
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3.47	-67.2	V	3.0	-18.2	34.6	1.0	-51.7	-13.0	-38.7																																																																																																				
5.20	-67.6	V	3.0	-14.4	34.2	1.0	-47.6	-13.0	-34.6																																																																																																				
6.93	-69.3	V	3.0	-13.8	33.9	1.0	-46.8	-13.0	-33.8																																																																																																				
8.66	-71.3	V	3.0	-15.5	32.6	1.0	-45.1	-13.0	-32.1																																																																																																				
High Channel (1752 MHz)																																																																																																													
3.47	-66.4	H	3.0	-20.9	34.5	1.0	-53.5	-13.0	-40.5																																																																																																				
5.26	-67.7	H	3.0	-14.8	34.2	1.0	-47.9	-13.0	-34.9																																																																																																				
7.01	-68.0	H	3.0	-12.2	33.9	1.0	-45.1	-13.0	-32.1																																																																																																				
8.76	-70.7	H	3.0	-13.2	32.6	1.0	-44.3	-13.0	-32.2																																																																																																				
3.51	-68.4	V	3.0	-19.1	34.5	1.0	-52.7	-13.0	-39.7																																																																																																				
5.26	-68.3	V	3.0	-15.0	34.2	1.0	-48.2	-13.0	-35.2																																																																																																				
7.01	-69.2	V	3.0	-13.6	33.9	1.0	-46.6	-13.0	-33.6																																																																																																				
8.76	-70.2	V	3.0	-12.2	32.6	1.0	-43.7	-13.0	-30.7																																																																																																				
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Frequency	SA reading	Ant. Pol.	Distance	EIRP @ TX Ant End (dBm)	Preamp	Attenuator	EIRP	Limit	Delta	Notes																																																																																																			
3.76	-61.8	H	3.0	-11.8	38.5	1.0	-49.4	-13.0	-36.4																																																																																																				
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7.41	-65.9	V	3.0	-8.4	37.8	1.0	-45.2	-13.0	-32.2																																																																																																				
Mid Channel (1800 MHz)																																																																																																													
3.76	-61.1	H	3.0	-11.0	38.5	1.0	-48.7	-13.0	-35.7																																																																																																				
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7.52	-66.2	V	3.0	-8.6	37.7	1.0	-45.3	-13.0	-32.3																																																																																																				
High Channel (1905 MHz)																																																																																																													
3.82	-61.7	H	3.0	-11.4	38.7	1.0	-49.1	-13.0	-36.1																																																																																																				
5.64	-64.5	H	3.0	-10.2	38.5	1.0	-47.7	-13.0	-34.1																																																																																																				
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3.42	-61.4	H	3.0	-16.1	38.5	1.0	-53.6	-13.0	-40.6																																																																																																				
5.20	-63.7	H	3.0	-10.7	38.7	1.0	-48.4	-13.0	-35.4																																																																																																				
6.93	-65.6	H	3.0	-8.7	38.1	1.0	-45.8	-13.0	-32.7																																																																																																				
3.42	-64.5	V	3.0	-15.5	38.5	1.0	-53.0	-13.0	-40.0																																																																																																				
5.14	-66.3	V	3.0	-13.9	38.1	1.0	-48.9	-13.0	-35.3																																																																																																				
6.85	-64.9	V	3.0	-8.3	38.1	1.0	-45.4	-13.0	-32.4																																																																																																				
Mid Channel (1732 MHz)																																																																																																													

9.4. FIELD STRENGTH OF SPURIOUS RADIATION (Ant 4)

9.4.1. GSM

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: 05/08/18 Date: 44410 Test Engineer: EUT only Configuration: Mode: GPRS 1900MHz		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber	Pre-amplifier	Filter	Limit							
3m Chamber E	3m Chamber E	Filter	EIRP							
Frequency (GHz)	SA reading (dBm)	Ant. Pol. (H/V)	Distance	EIRP @ TX Ant End (dBm)	Preampl	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1850.2MHz)										
3.70	62.7	H	3.0	-12.8	38.6	1.0	50.4	-13.0	-37.4	
5.55	64.1	H	3.0	-10.1	38.6	1.0	47.6	-13.0	-34.6	
7.40	65.9	H	3.0	-2.8	37.9	1.0	51.1	-13.0	-37.1	
3.70	62.2	V	3.0	-12.3	38.6	1.0	49.9	-13.0	-36.9	
5.55	64.7	V	3.0	-10.9	38.6	1.0	48.5	-13.0	-35.5	
7.40	66.9	V	3.0	-9.4	37.8	1.0	46.2	-13.0	-33.2	
Mid Channel (1880.0)										
3.76	61.9	H	3.0	-11.8	38.6	1.0	49.5	-13.0	-36.5	
5.64	63.1	H	3.0	-9.8	38.5	1.0	50.9	-13.0	-35.9	
7.52	66.2	H	3.0	-2.4	37.7	1.0	45.1	-13.0	-37.1	
3.76	61.9	V	3.0	-11.8	38.6	1.0	49.4	-13.0	-36.4	
5.64	64.6	V	3.0	-10.7	38.5	1.0	48.2	-13.0	-35.2	
7.52	67.1	V	3.0	-9.5	37.7	1.0	46.2	-13.0	-33.2	
High Channel (1900.8MHz)										
3.73	61.9	H	3.0	-11.5	38.7	1.0	49.1	-13.0	-36.1	
5.73	64.9	H	3.0	-10.4	38.5	1.0	47.9	-13.0	-34.9	
7.54	66.6	H	3.0	-8.7	37.7	1.0	45.4	-13.0	-32.4	
3.82	61.2	V	3.0	-11.0	36.7	1.0	48.6	-13.0	-35.6	
5.73	63.8	V	3.0	-9.8	38.5	1.0	48.1	-13.0	-34.2	
7.54	66.8	V	3.0	-9.2	37.7	1.0	45.9	-13.0	-32.9	

Rev. 03 19 15

GSM 1900MHz GPRS

GSM 1900MHz EGPRS

9.4.2. WCDMA

High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: 05/08/18 Date: 10649 Test Engineer: Configuration: EUT Only Mode: REL 99, 1700MHz		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber E		3m Chamber E		Filter		EIRP		Chamber	Pre-amplifier	Filter
Frequency SA reading Ant. Pol. Distance EIRP @ TX Ant End (GHz) (dBm) (H/V) Preamp Attenuator EIRP Limit Delta Notes										
Low Channel (1852.4MHz)										
3.76	-41.9	H	3.0	-11.8	38.6	1.0	-48.5	-13.0	-36.5	
5.16	-45.1	H	3.0	-11.4	38.5	1.0	-46.9	-13.0	-33.9	
7.41	-66.1	H	3.0	-8.4	37.8	1.0	-45.2	-13.0	-32.2	
3.76	-42.2	V	3.0	-12.3	38.6	1.0	-49.9	-13.0	-36.9	
5.16	-44.1	V	3.0	-10.2	38.6	1.0	-48.2	-13.0	-32.5	
7.42	-65.4	V	3.0	-7.9	37.8	1.0	-44.7	-13.0	-31.7	
Mid Channel (1880MHz)										
3.76	-42.2	H	3.0	-12.1	38.6	1.0	-49.7	-13.0	-36.7	
5.16	-43.6	H	3.0	-9.4	38.5	1.0	-45.6	-13.0	-32.6	
7.52	-66.1	H	3.0	-4.9	37.7	1.0	-45.6	-13.0	-32.6	
3.76	-41.6	V	3.0	-11.7	38.6	1.0	-48.2	-13.0	-34.3	
5.16	-44.2	V	3.0	-10.3	38.5	1.0	-47.8	-13.0	-34.8	
7.52	-66.2	V	3.0	-8.6	37.7	1.0	-45.4	-13.0	-32.4	
High Channel (1907.6MHz)										
3.81	-60.4	H	3.0	-10.2	38.7	1.0	-47.8	-13.0	-34.8	
5.72	-40.9	H	3.0	-9.9	38.5	1.0	-47.4	-13.0	-34.4	
7.76	-45.7	H	3.0	-7.7	37.7	1.0	-46.3	-13.0	-31.4	
3.82	-61.5	V	3.0	-11.3	38.7	1.0	-49.0	-13.0	-36.0	
5.72	-44.8	V	3.0	-10.7	38.5	1.0	-48.2	-13.0	-35.2	
7.63	-66.1	V	3.0	-8.3	37.7	1.0	-45.9	-13.0	-32.6	
Rev. 03.19.15										
WCDMA Band 2 Rel 99										
Frequency SA reading Ant. Pol. Distance EIRP @ TX Ant End (GHz) (dBm) (H/V) Preamp Attenuator EIRP Limit Delta Notes										
Mid Channel (1952.4MHz)										
3.76	-42.2	H	3.0	-12.1	38.6	1.0	-49.7	-13.0	-36.7	
5.16	-43.6	H	3.0	-9.4	38.5	1.0	-45.6	-13.0	-32.6	
7.52	-66.1	H	3.0	-4.9	37.7	1.0	-45.6	-13.0	-32.6	
3.76	-41.6	V	3.0	-11.7	38.6	1.0	-48.2	-13.0	-34.3	
5.16	-44.2	V	3.0	-10.3	38.5	1.0	-47.8	-13.0	-34.8	
7.52	-66.2	V	3.0	-8.6	37.7	1.0	-45.4	-13.0	-32.4	
High Channel (1967.6MHz)										
3.82	-60.4	H	3.0	-10.2	38.7	1.0	-47.8	-13.0	-34.8	
5.72	-40.9	H	3.0	-9.9	38.5	1.0	-47.4	-13.0	-34.4	
7.63	-45.2	H	3.0	-7.7	37.7	1.0	-43.9	-13.0	-30.9	
3.82	-61.5	V	3.0	-11.3	38.7	1.0	-49.0	-13.0	-36.0	
5.72	-44.8	V	3.0	-10.7	38.5	1.0	-48.2	-13.0	-35.2	
7.63	-66.0	V	3.0	-8.3	37.7	1.0	-44.9	-13.0	-31.9	
9.54	-66.8	V	3.0	-6.6	36.4	1.0	-42.0	-13.0	-30.3	
Rev. 03.19.15										
WCDMA Band 2 HSDPA										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: 05/08/18 Date: 10649 Test Engineer: Configuration: EUT Only Mode: HSDPA 1700MHz		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber E		3m Chamber E		Filter		EIRP		Chamber	Pre-amplifier	Filter
Frequency SA reading Ant. Pol. Distance EIRP @ TX Ant End (GHz) (dBm) (H/V) Preamp Attenuator EIRP Limit Delta Notes										
Low Channel (1712.4MHz)										
3.42	-65.9	H	3.0	-9.9	38.5	1.0	-54.1	-13.0	-41.1	
5.14	-63.5	H	3.0	-10.3	38.7	1.0	-48.0	-13.0	-35.0	
6.85	-65.3	H	3.0	-9.2	38.1	1.0	-46.1	-13.0	-33.9	
6.85	-64.3	H	3.0	-7.3	37.1	1.0	-45.3	-13.0	-30.3	
3.42	-65.8	V	3.0	-16.7	38.5	1.0	-54.3	-13.0	-41.3	
5.14	-64.2	V	3.0	-11.3	38.7	1.0	-49.9	-13.0	-36.0	
6.85	-65.7	V	3.0	-8.4	38.1	1.0	-48.2	-13.0	-33.3	
8.56	-66.5	V	3.0	-7.5	37.1	1.0	-43.6	-13.0	-30.6	
Mid Channel (1732.4MHz)										
3.47	-64.8	H	3.0	-15.5	38.5	1.0	-53.0	-13.0	-40.0	
5.20	-64.9	H	3.0	-11.7	38.7	1.0	-49.3	-13.0	-36.3	
8.93	-65.3	H	3.0	-8.2	38.1	1.0	-45.5	-13.0	-32.3	
8.93	-67.1	H	3.0	-7.9	37.9	1.0	-44.3	-13.0	-31.1	
3.47	-66.0	V	3.0	-18.8	38.5	1.0	-54.3	-13.0	-41.3	
5.20	-64.1	V	3.0	-11.2	38.7	1.0	-48.9	-13.0	-35.9	
8.93	-65.2	V	3.0	-8.4	38.1	1.0	-45.5	-13.0	-32.5	
8.96	-67.3	V	3.0	-6.2	37.9	1.0	-44.2	-13.0	-31.2	
High Channel (1752.4MHz)										
3.47	-65.8	H	3.0	-16.1	38.5	1.0	-53.0	-13.0	-40.6	
5.26	-65.9	H	3.0	-12.5	38.7	1.0	-49.2	-13.0	-36.9	
7.01	-65.9	H	3.0	-8.6	38.1	1.0	-45.7	-13.0	-32.7	
8.76	-65.8	H	3.0	-5.3	38.9	1.0	-42.9	-13.0	-30.8	
3.51	-65.9	V	3.0	-16.5	38.5	1.0	-54.1	-13.0	-41.1	
5.26	-64.7	V	3.0	-11.6	38.7	1.0	-49.3	-13.0	-36.3	
7.01	-65.3	V	3.0	-8.0	38.1	1.0	-45.9	-13.0	-32.0	
8.76	-66.7	V	3.0	-7.5	38.9	1.0	-43.4	-13.0	-30.4	
Rev. 03.19.15										
WCDMA Band 4 HSDPA										
High Frequency Substitution Measurement UL Fremont Radiated Chamber										
Company: Project #: 05/08/18 Date: 10649 Test Engineer: Configuration: EUT Only Mode: HSDPA 1700MHz		High Frequency Substitution Measurement UL Fremont Radiated Chamber								
Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable		Test Equipment: Substitution: Horn T59 Substitution, and 8ft SMA Cable								
Chamber		Pre-amplifier		Filter		Limit				
3m Chamber E		3m Chamber E		Filter		EIRP		Chamber	Pre-amplifier	Filter

END OF REPORT

10. SETUP PHOTOS

Please refer to 12204512-EP1V1 for setup photos