

11.2.1. SPURIOUS RADIATION PLOTS

GSM 850

GSM GSM850 GPRS	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Project #: Date: Test Engineer: Configuration: Mode: Samsung 15K22555 01-05-16 Steven Kim EUT / AC Adapter / Earphone / Z Position GPRS 850 MHz Chamber Pre-amplifier Filter Limit Chamber 2 AFS42 Filter 1 Part 22 <table> <tr> <th>f GHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Ch, 824.2MHz</td></tr> <tr><td>1.6484</td><td>-3.5</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-41.6</td><td>-13.0</td><td>-28.6</td><td></td></tr> <tr><td>2.4726</td><td>-2.5</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-41.0</td><td>-13.0</td><td>-28.0</td><td></td></tr> <tr><td>3.2968</td><td>-5.8</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-44.9</td><td>-13.0</td><td>-31.9</td><td></td></tr> <tr><td>1.6484</td><td>-4.4</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-42.5</td><td>-13.0</td><td>-29.5</td><td></td></tr> <tr><td>2.4726</td><td>-1.7</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-40.2</td><td>-13.0</td><td>-27.2</td><td></td></tr> <tr><td>3.2968</td><td>-16.2</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr> <tr><td colspan="10">Mid Ch, 836.6MHz</td></tr> <tr><td>1.6730</td><td>-3.4</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-41.5</td><td>-13.0</td><td>-28.5</td><td></td></tr> <tr><td>2.5098</td><td>-3.1</td><td>V</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-41.6</td><td>-13.0</td><td>-28.6</td><td></td></tr> <tr><td>3.3464</td><td>-11.9</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-51.1</td><td>-13.0</td><td>-38.1</td><td></td></tr> <tr><td>1.6730</td><td>-3.5</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-41.6</td><td>-13.0</td><td>-28.6</td><td></td></tr> <tr><td>2.5098</td><td>-3.4</td><td>H</td><td>3.0</td><td>39.5</td><td>1.0</td><td>-41.9</td><td>-13.0</td><td>-28.9</td><td></td></tr> <tr><td>3.3464</td><td>-13.7</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr> <tr><td colspan="10">High Ch, 848.8MHz</td></tr> <tr><td>1.6976</td><td>-3.1</td><td>V</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-41.2</td><td>-13.0</td><td>-28.2</td><td></td></tr> <tr><td>2.5466</td><td>-1.6</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-40.2</td><td>-13.0</td><td>-27.2</td><td></td></tr> <tr><td>3.3952</td><td>-3.6</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-42.8</td><td>-13.0</td><td>-29.8</td><td></td></tr> <tr><td>1.6976</td><td>-2.5</td><td>H</td><td>3.0</td><td>39.1</td><td>1.0</td><td>-40.6</td><td>-13.0</td><td>-27.6</td><td></td></tr> <tr><td>2.5466</td><td>-3.0</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-41.6</td><td>-13.0</td><td>-28.6</td><td></td></tr> <tr><td>3.3952</td><td>-9.9</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-49.1</td><td>-13.0</td><td>-36.1</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 824.2MHz										1.6484	-3.5	V	3.0	39.1	1.0	-41.6	-13.0	-28.6		2.4726	-2.5	V	3.0	39.5	1.0	-41.0	-13.0	-28.0		3.2968	-5.8	V	3.0	40.1	1.0	-44.9	-13.0	-31.9		1.6484	-4.4	H	3.0	39.1	1.0	-42.5	-13.0	-29.5		2.4726	-1.7	H	3.0	39.5	1.0	-40.2	-13.0	-27.2		3.2968	-16.2	H	3.0	40.1	1.0	-55.3	-13.0	-42.3		Mid Ch, 836.6MHz										1.6730	-3.4	V	3.0	39.1	1.0	-41.5	-13.0	-28.5		2.5098	-3.1	V	3.0	39.5	1.0	-41.6	-13.0	-28.6		3.3464	-11.9	V	3.0	40.1	1.0	-51.1	-13.0	-38.1		1.6730	-3.5	H	3.0	39.1	1.0	-41.6	-13.0	-28.6		2.5098	-3.4	H	3.0	39.5	1.0	-41.9	-13.0	-28.9		3.3464	-13.7	H	3.0	40.1	1.0	-52.8	-13.0	-39.8		High Ch, 848.8MHz										1.6976	-3.1	V	3.0	39.1	1.0	-41.2	-13.0	-28.2		2.5466	-1.6	V	3.0	39.6	1.0	-40.2	-13.0	-27.2		3.3952	-3.6	V	3.0	40.2	1.0	-42.8	-13.0	-29.8		1.6976	-2.5	H	3.0	39.1	1.0	-40.6	-13.0	-27.6		2.5466	-3.0	H	3.0	39.6	1.0	-41.6	-13.0	-28.6		3.3952	-9.9	H	3.0	40.2	1.0	-49.1	-13.0	-36.1	
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WCDMA Band 5

WCDMA

Band 5

REL99

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

Samsung

15K22555

12-30-15

Steven Kim

EUT / AC Adapter / Earphone / Z Position

Tx, REL99,850MHz

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

Part 22

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.40MHz									
1.6520	-10.3	V	3.0	39.1	1.0	-48.4	-13.0	-35.4	
2.4790	-15.9	V	3.0	39.5	1.0	-54.4	-13.0	-41.4	
3.3056	-14.6	V	3.0	40.1	1.0	-53.7	-13.0	-40.7	
1.6520	-6.2	H	3.0	39.1	1.0	-44.3	-13.0	-31.3	
2.4790	-16.4	H	3.0	39.5	1.0	-54.9	-13.0	-41.9	
3.3056	-15.9	H	3.0	40.1	1.0	-55.0	-13.0	-42.0	
Mid Ch, 836.6MHz									
1.6732	-13.4	V	3.0	39.1	1.0	-51.5	-13.0	-38.5	
2.5098	-16.5	V	3.0	39.5	1.0	-55.1	-13.0	-42.1	
3.3464	-13.8	V	3.0	40.1	1.0	-52.9	-13.0	-39.9	
1.6732	-11.1	H	3.0	39.1	1.0	-49.3	-13.0	-36.3	
2.5098	-17.3	H	3.0	39.5	1.0	-55.8	-13.0	-42.8	
3.3464	-16.0	H	3.0	40.1	1.0	-55.1	-13.0	-42.1	
High Ch, 846.6MHz									
1.6932	-12.5	V	3.0	39.1	1.0	-50.6	-13.0	-37.6	
2.5390	-17.0	V	3.0	39.6	1.0	-55.5	-13.0	-42.5	
3.3860	-14.9	V	3.0	40.2	1.0	-54.1	-13.0	-41.1	
1.6932	-8.5	H	3.0	39.1	1.0	-46.6	-13.0	-33.6	
2.5390	-17.3	H	3.0	39.6	1.0	-55.8	-13.0	-42.8	
3.3860	-16.1	H	3.0	40.2	1.0	-55.2	-13.0	-42.2	

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

WCDMA

Band 5

HSDPA

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Mode:

Samsung

15K22555

12-30-15

Steven Kim

EUT / AC Adapter / Earphone / Z Position

Tx, HSDPA,850MHz

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

Part 22

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 826.40MHz									
1.6520	-10.6	V	3.0	39.1	1.0	-48.8	-13.0	-35.8	
2.4790	-16.5	V	3.0	39.5	1.0	-55.0	-13.0	-42.0	
3.3056	-14.5	V	3.0	40.1	1.0	-53.6	-13.0	-40.6	
1.6520	-6.4	H	3.0	39.1	1.0	-44.5	-13.0	-31.5	
2.4790	-16.1	H	3.0	39.5	1.0	-54.6	-13.0	-41.6	
3.3056	-15.4	H	3.0	40.1	1.0	-54.5	-13.0	-41.5	
Mid Ch, 836.6MHz									
1.6732	-16.0	V	3.0	39.1	1.0	-54.1	-13.0	-41.1	
2.5098	-17.0	V	3.0	39.5	1.0	-55.6	-13.0	-42.6	
3.3464	-14.7	V	3.0	40.1	1.0	-53.8	-13.0	-40.8	
1.6732	-13.5	H	3.0	39.1	1.0	-51.6	-13.0	-38.6	
2.5098	-17.2	H	3.0	39.5	1.0	-55.7	-13.0	-42.7	
3.3464	-15.7	H	3.0	40.1	1.0	-54.8	-13.0	-41.8	
High Ch, 846.6MHz									
1.6932	-13.2	V	3.0	39.1	1.0	-51.3	-13.0	-38.3	
2.5390	-17.1	V	3.0	39.6	1.0	-55.6	-13.0	-42.6	
3.3860	-15.1	V	3.0	40.2	1.0	-54.2	-13.0	-41.2	
1.6932	-9.9	H	3.0	39.1	1.0	-48.0	-13.0	-35.0	
2.5390	-17.5	H	3.0	39.6	1.0	-56.1	-13.0	-43.1	
3.3860	-15.9	H	3.0	40.2	1.0	-55.1	-13.0	-42.1	

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

WCDMA Band 4

WCDMA

Band 4

REL99

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 15K22555

Date: 12-29-15

Test Engineer: Steven Kim

Configuration: EUT / AC Adapter / Earphone / X Position

Mode: Tx, REL99,1700MHz

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

Filter 1

Part 24

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.4MHz									
3.4248	-12.8	V	3.0	40.2	1.0	-52.1	-13.0	-39.1	
5.1372	-4.1	V	3.0	40.9	1.0	-44.0	-13.0	-31.0	
6.8496	4.9	V	3.0	41.0	1.0	-35.0	-13.0	-22.0	
3.4248	-13.6	H	3.0	40.2	1.0	-52.8	-13.0	-39.8	
5.1372	-5.1	H	3.0	40.9	1.0	-44.9	-13.0	-31.9	
6.8496	1.8	H	3.0	41.0	1.0	-38.2	-13.0	-25.2	
Mid Ch, 1732.6MHz									
3.4652	-12.1	V	3.0	40.3	1.0	-51.4	-13.0	-38.4	
5.1978	-4.6	V	3.0	40.9	1.0	-44.5	-13.0	-31.5	
6.9304	3.2	V	3.0	41.0	1.0	-36.8	-13.0	-23.8	
3.4652	-14.0	H	3.0	40.3	1.0	-53.2	-13.0	-40.2	
5.1978	-2.3	H	3.0	40.9	1.0	-42.1	-13.0	-29.1	
6.9304	0.4	H	3.0	41.0	1.0	-39.6	-13.0	-26.6	
High Ch, 1752.6MHz									
3.5052	-11.9	V	3.0	40.3	1.0	-51.1	-13.0	-38.1	
5.2578	-4.3	V	3.0	40.9	1.0	-44.1	-13.0	-31.1	
7.0104	0.4	V	3.0	41.0	1.0	-39.6	-13.0	-26.6	
3.5052	-11.9	H	3.0	40.3	1.0	-51.2	-13.0	-38.2	
5.2578	-2.3	H	3.0	40.9	1.0	-42.2	-13.0	-29.2	
7.0104	-0.8	H	3.0	41.0	1.0	-40.8	-13.0	-27.8	

Rev: 03.03.09

Note: No other emissions were detected above the system noise floor.

WCDMA

Band 4

HSDPA

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 15K22555

Date: 12-29-15

Test Engineer: Steven Kim

Configuration: EUT / AC Adapter / Earphone / X Position

Mode: Tx, HSDPA,1700MHz

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

Filter 1

Part 24

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1712.4MHz									
3.4248	-12.8	V	3.0	40.2	1.0	-52.1	-13.0	-39.1	
5.1372	-5.1	V	3.0	40.9	1.0	-45.0	-13.0	-32.0	
6.8496	4.6	V	3.0	41.0	1.0	-35.4	-13.0	-22.4	
3.4248	-13.1	H	3.0	40.2	1.0	-52.3	-13.0	-39.3	
5.1372	-3.9	H	3.0	40.9	1.0	-43.8	-13.0	-30.8	
6.8496	0.6	H	3.0	41.0	1.0	-39.4	-13.0	-26.4	
Mid Ch, 1732.6MHz									
3.4652	-12.4	V	3.0	40.3	1.0	-51.7	-13.0	-38.7	
5.1978	-6.0	V	3.0	40.9	1.0	-45.9	-13.0	-32.9	
6.9304	2.2	V	3.0	41.0	1.0	-37.8	-13.0	-24.8	
3.4652	-14.3	H	3.0	40.3	1.0	-53.6	-13.0	-40.6	
5.1978	-3.7	H	3.0	40.9	1.0	-43.6	-13.0	-30.6	
6.9304	2.2	H	3.0	41.0	1.0	-37.8	-13.0	-24.8	
High Ch, 1752.6MHz									
3.5052	-12.0	V	3.0	40.3	1.0	-51.3	-13.0	-38.3	
5.2578	-5.5	V	3.0	40.9	1.0	-45.4	-13.0	-32.4	
7.0104	-0.8	V	3.0	41.0	1.0	-40.8	-13.0	-27.8	
3.5052	-12.7	H	3.0	40.3	1.0	-52.0	-13.0	-39.0	
5.2578	-3.9	H	3.0	40.9	1.0	-43.8	-13.0	-30.8	
7.0104	-1.8	H	3.0	41.0	1.0	-41.8	-13.0	-28.8	

Rev: 03.03.09

Note: No other emissions were detected above the system noise floor.

WCDMA Band 2

WCDMA

Band 2

REL99

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 15K22555

Date: 12-29-15

Test Engineer: Steven Kim

Configuration: EUT / AC Adapter / Earphone / X Position

Mode: Tx, REL99, 1900MHz

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

Filter 1

Part 24

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.4MHz									
3.7048	-11.9	V	3.0	40.5	1.0	-51.4	-13.0	-38.4	
5.5572	2.4	V	3.0	40.8	1.0	-37.4	-13.0	-24.4	
7.4096	-3.9	V	3.0	40.8	1.0	-43.6	-13.0	-30.6	
3.7048	-14.0	H	3.0	40.5	1.0	-53.5	-13.0	-40.5	
5.5572	1.6	H	3.0	40.8	1.0	-38.3	-13.0	-25.3	
7.4096	-2.8	H	3.0	40.8	1.0	-42.6	-13.0	-29.6	
Mid Ch, 1880MHz									
3.7600	-10.9	V	3.0	40.5	1.0	-50.5	-13.0	-37.5	
5.6400	-3.0	V	3.0	40.8	1.0	-42.8	-13.0	-29.8	
7.5200	-8.3	V	3.0	40.7	1.0	-48.0	-13.0	-35.0	
3.7600	-14.5	H	3.0	40.5	1.0	-54.0	-13.0	-41.0	
5.6400	-3.3	H	3.0	40.8	1.0	-43.1	-13.0	-30.1	
7.5200	-7.8	H	3.0	40.7	1.0	-47.5	-13.0	-34.5	
High Ch, 1907.6MHz									
3.8152	-8.8	V	3.0	40.6	1.0	-48.4	-13.0	-35.4	
5.7228	-0.8	V	3.0	40.8	1.0	-40.6	-13.0	-27.6	
7.6304	-7.6	V	3.0	40.7	1.0	-47.3	-13.0	-34.3	
3.8152	-9.1	H	3.0	40.6	1.0	-48.7	-13.0	-35.7	
5.7228	-2.8	H	3.0	40.8	1.0	-42.6	-13.0	-29.6	
7.6304	-8.1	H	3.0	40.7	1.0	-47.8	-13.0	-34.8	

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

WCDMA

Band 2

HSDPA

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 15K22555

Date: 12-29-15

Test Engineer: Steven Kim

Configuration: EUT / AC Adapter / Earphone / X Position

Mode: Tx, HSDPA, 1900MHz

Chamber

Pre-amplifier

Filter

Limit

Chamber 2

AFS42

Filter 1

Part 24

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.4MHz									
3.7048	-12.3	V	3.0	40.5	1.0	-51.8	-13.0	-38.8	
5.5572	-2.9	V	3.0	40.8	1.0	-42.7	-13.0	-29.7	
7.4096	-5.7	V	3.0	40.8	1.0	-45.5	-13.0	-32.5	
3.7048	-13.6	H	3.0	40.5	1.0	-53.0	-13.0	-40.0	
5.5572	-3.8	H	3.0	40.8	1.0	-43.7	-13.0	-30.7	
7.4096	-5.2	H	3.0	40.8	1.0	-45.0	-13.0	-32.0	
Mid Ch, 1880MHz									
3.7600	-10.8	V	3.0	40.5	1.0	-50.4	-13.0	-37.4	
5.6400	-1.9	V	3.0	40.8	1.0	-41.7	-13.0	-28.7	
7.5200	-8.1	V	3.0	40.7	1.0	-47.8	-13.0	-34.8	
3.7600	-10.1	H	3.0	40.5	1.0	-49.6	-13.0	-36.6	
5.6400	-4.3	H	3.0	40.8	1.0	-44.1	-13.0	-31.1	
7.5200	-8.0	H	3.0	40.7	1.0	-47.7	-13.0	-34.7	
High Ch, 1907.6MHz									
3.8152	-8.7	V	3.0	40.6	1.0	-48.3	-13.0	-35.3	
5.7228	-1.9	V	3.0	40.8	1.0	-41.7	-13.0	-28.7	
7.6304	-7.9	V	3.0	40.7	1.0	-47.5	-13.0	-34.5	
3.8152	-9.7	H	3.0	40.6	1.0	-49.3	-13.0	-36.3	
5.7228	-3.8	H	3.0	40.8	1.0	-43.5	-13.0	-30.5	
7.6304	-8.0	H	3.0	40.7	1.0	-47.7	-13.0	-34.7	

Rev. 03.03.09

Note: No other emissions were detected above the system noise floor.

LTE Band 17

LTE Band 17 10MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Project #: Date: Test Engineer: Configuration: Mode: Samsung 15K22555 01-13-16 Steven Kim EUT / AC Adapter / Ear Phone / Z-Position TX, LTE BAND 17, 10MHz BW, QPSK Chamber Pre-amplifier Filter Limit Chamber 2 AFS42 Filter 1 FCC Part 27 <table> <tr> <th>f GHz</th><th>SGreading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (709MHz)</td></tr> <tr><td>1.4180</td><td>-20.3</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-58.3</td><td>-13.0</td><td>-45.3</td><td></td></tr> <tr><td>2.1270</td><td>-14.6</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr> <tr><td>2.8360</td><td>-22.5</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-61.2</td><td>-13.0</td><td>-48.2</td><td></td></tr> <tr><td>1.4180</td><td>-21.6</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-59.6</td><td>-13.0</td><td>-46.6</td><td></td></tr> <tr><td>2.1270</td><td>-5.0</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-43.3</td><td>-13.0</td><td>-30.3</td><td></td></tr> <tr><td>2.8360</td><td>-24.1</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.8</td><td>-13.0</td><td>-49.8</td><td></td></tr> <tr><td colspan="10">Mid Channel (710MHz)</td></tr> <tr><td>1.4200</td><td>-11.2</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-49.2</td><td>-13.0</td><td>-36.2</td><td></td></tr> <tr><td>2.1300</td><td>-11.8</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-50.1</td><td>-13.0</td><td>-37.1</td><td></td></tr> <tr><td>2.8400</td><td>-20.2</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-58.9</td><td>-13.0</td><td>-45.9</td><td></td></tr> <tr><td>1.4200</td><td>-12.8</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr> <tr><td>2.1300</td><td>-4.6</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-42.9</td><td>-13.0</td><td>-29.9</td><td></td></tr> <tr><td>2.8400</td><td>-23.5</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.3</td><td>-13.0</td><td>-49.3</td><td></td></tr> <tr><td colspan="10">High Channel (711MHz)</td></tr> <tr><td>1.4220</td><td>-6.4</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-44.4</td><td>-13.0</td><td>-31.4</td><td></td></tr> <tr><td>2.1330</td><td>-9.4</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-47.8</td><td>-13.0</td><td>-34.8</td><td></td></tr> <tr><td>2.8440</td><td>-19.4</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-58.1</td><td>-13.0</td><td>-45.1</td><td></td></tr> <tr><td>1.4220</td><td>-8.4</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-46.4</td><td>-13.0</td><td>-33.4</td><td></td></tr> <tr><td>2.1330</td><td>-3.0</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-41.3</td><td>-13.0</td><td>-28.3</td><td></td></tr> <tr><td>2.8440</td><td>-23.6</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.3</td><td>-13.0</td><td>-49.3</td><td></td></tr> </table> Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (709MHz)										1.4180	-20.3	V	3.0	39.0	1.0	-58.3	-13.0	-45.3		2.1270	-14.6	V	3.0	39.3	1.0	-53.0	-13.0	-40.0		2.8360	-22.5	V	3.0	39.7	1.0	-61.2	-13.0	-48.2		1.4180	-21.6	H	3.0	39.0	1.0	-59.6	-13.0	-46.6		2.1270	-5.0	H	3.0	39.3	1.0	-43.3	-13.0	-30.3		2.8360	-24.1	H	3.0	39.7	1.0	-62.8	-13.0	-49.8		Mid Channel (710MHz)										1.4200	-11.2	V	3.0	39.0	1.0	-49.2	-13.0	-36.2		2.1300	-11.8	V	3.0	39.3	1.0	-50.1	-13.0	-37.1		2.8400	-20.2	V	3.0	39.7	1.0	-58.9	-13.0	-45.9		1.4200	-12.8	H	3.0	39.0	1.0	-50.9	-13.0	-37.9		2.1300	-4.6	H	3.0	39.3	1.0	-42.9	-13.0	-29.9		2.8400	-23.5	H	3.0	39.7	1.0	-62.3	-13.0	-49.3		High Channel (711MHz)										1.4220	-6.4	V	3.0	39.0	1.0	-44.4	-13.0	-31.4		2.1330	-9.4	V	3.0	39.3	1.0	-47.8	-13.0	-34.8		2.8440	-19.4	V	3.0	39.7	1.0	-58.1	-13.0	-45.1		1.4220	-8.4	H	3.0	39.0	1.0	-46.4	-13.0	-33.4		2.1330	-3.0	H	3.0	39.3	1.0	-41.3	-13.0	-28.3		2.8440	-23.6	H	3.0	39.7	1.0	-62.3	-13.0	-49.3	
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LTE	Band 17	5MHz	16QAM																																																																																																																																																																																																																												

LTE Band 5 1.4MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 15K22555 Date: 01-12-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Z Position Mode: TX, LTE BAND 5, 1.4MHz BW,QPSK									
	Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit Part 22									
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Channel (824.7MHz)									
	1.6494	-11.3	V	3.0	39.1	1.0	-49.4	-13.0	-36.4	
	2.4741	-19.5	V	3.0	39.5	1.0	-58.0	-13.0	-45.0	
	3.2988	-12.2	V	3.0	40.1	1.0	-51.3	-13.0	-38.3	
	1.6494	-6.2	H	3.0	39.1	1.0	-44.3	-13.0	-31.3	
	2.4741	-17.6	H	3.0	39.5	1.0	-56.2	-13.0	-43.2	
	3.2988	-19.4	H	3.0	40.1	1.0	-58.5	-13.0	-45.5	
	Mid Channel (836.5MHz)									
	1.6730	-14.3	V	3.0	39.1	1.0	-52.4	-13.0	-39.4	
	2.5090	-21.5	V	3.0	39.5	1.0	-60.0	-13.0	-47.0	
	3.3460	-10.8	V	3.0	40.1	1.0	-49.9	-13.0	-36.9	
	1.6730	-8.9	H	3.0	39.1	1.0	-47.0	-13.0	-34.0	
	2.5090	-19.2	H	3.0	39.5	1.0	-57.8	-13.0	-44.8	
	3.3460	-19.7	H	3.0	40.1	1.0	-58.9	-13.0	-45.9	
	High Channel (848.3MHz)									
	1.6966	-13.0	V	3.0	39.1	1.0	-51.1	-13.0	-38.1	
	2.5449	-20.1	V	3.0	39.6	1.0	-58.7	-13.0	-45.7	
	3.3932	-12.4	V	3.0	40.2	1.0	-51.6	-13.0	-38.6	
	1.6966	-8.9	H	3.0	39.1	1.0	-47.0	-13.0	-34.0	
	2.5449	-18.9	H	3.0	39.6	1.0	-57.4	-13.0	-44.4	
	3.3932	-19.3	H	3.0	40.2	1.0	-58.5	-13.0	-45.5	
	Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									
LTE Band 5 1.4MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 15K22555 Date: 01-12-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Earphone, Z Position Mode: TX, LTE BAND 5, 1.4MHz BW,16QAM									
	Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit Part 22									
	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Channel (824.7MHz)									
	1.6494	-12.5	V	3.0	39.1	1.0	-50.6	-13.0	-37.6	
	2.4741	-20.1	V	3.0	39.5	1.0	-58.7	-13.0	-45.7	
	3.2988	-13.5	V	3.0	40.1	1.0	-52.6	-13.0	-39.6	
	1.6494	-8.1	H	3.0	39.1	1.0	-46.2	-13.0	-33.2	
	2.4741	-19.4	H	3.0	39.5	1.0	-57.9	-13.0	-44.9	
	3.2988	-20.3	H	3.0	40.1	1.0	-59.4	-13.0	-46.4	
	Mid Channel (836.5MHz)									
	1.6730	-15.5	V	3.0	39.1	1.0	-53.6	-13.0	-40.6	
	2.5090	-21.9	V	3.0	39.5	1.0	-60.5	-13.0	-47.5	
	3.3460	-12.5	V	3.0	40.1	1.0	-51.6	-13.0	-38.6	
	1.6730	-10.7	H	3.0	39.1	1.0	-48.8	-13.0	-35.8	
	2.5090	-20.2	H	3.0	39.5	1.0	-58.8	-13.0	-45.8	
	3.3460	-20.5	H	3.0	40.1	1.0	-59.7	-13.0	-46.7	
	High Channel (848.3MHz)									
	1.6966	-14.1	V	3.0	39.1	1.0	-52.2	-13.0	-39.2	
	2.5449	-21.0	V	3.0	39.6	1.0	-59.6	-13.0	-46.6	
	3.3932	-13.6	V	3.0	40.2	1.0	-52.8	-13.0	-39.8	
	1.6966	-11.5	H	3.0	39.1	1.0	-49.7	-13.0	-36.7	
	2.5449	-20.1	H	3.0	39.6	1.0	-58.7	-13.0	-45.7	
	3.3932	-20.1	H	3.0	40.2	1.0	-59.3	-13.0	-46.3	
	Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									