

LTE Band 17

LTE
Band 17
10MHz
QPSK

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22866
Date: 02-23-16
Test Engineer: Steven Kim
Configuration: EUT / AC Adapter / Ear Phone / Y-Position
Mode: TX, LTE BAND 17, 10MHz BW, QPSK

Chamber
Chamber 2

Pre-amplifier
AFS42

Filter
Filter 1

Limit
FCC Part 27

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	-25.0	V	3.0	39.0	1.0	-63.1	-13.0	-50.1	
2.1270	-11.0	V	3.0	39.3	1.0	-49.3	-13.0	-36.3	
2.8360	-22.4	V	3.0	39.7	1.0	-61.1	-13.0	-48.1	
1.4180	-27.3	H	3.0	39.0	1.0	-65.3	-13.0	-52.3	
2.1270	-14.3	H	3.0	39.3	1.0	-52.7	-13.0	-39.7	
2.8360	-22.4	H	3.0	39.7	1.0	-61.2	-13.0	-48.2	
Mid Channel (710MHz)									
1.4200	-22.2	V	3.0	39.0	1.0	-60.2	-13.0	-47.2	
2.1300	-11.6	V	3.0	39.3	1.0	-50.0	-13.0	-37.0	
2.8400	-23.5	V	3.0	39.7	1.0	-62.2	-13.0	-49.2	
1.4200	-26.6	H	3.0	39.0	1.0	-64.6	-13.0	-51.6	
2.1300	-13.8	H	3.0	39.3	1.0	-52.1	-13.0	-39.1	
2.8400	-23.5	H	3.0	39.7	1.0	-62.2	-13.0	-49.2	
High Channel (711MHz)									
1.4220	-24.6	V	3.0	39.0	1.0	-62.6	-13.0	-49.6	
2.1330	-9.0	V	3.0	39.3	1.0	-47.4	-13.0	-34.4	
2.8440	-23.2	V	3.0	39.7	1.0	-61.9	-13.0	-48.9	
1.4220	-27.6	H	3.0	39.0	1.0	-65.6	-13.0	-52.6	
2.1330	-14.0	H	3.0	39.3	1.0	-52.4	-13.0	-39.4	
2.8440	-23.4	H	3.0	39.7	1.0	-62.1	-13.0	-49.1	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

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16QAM

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Filter
Filter 1

Limit
FCC Part 27

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	-25.6	V	3.0	39.0	1.0	-63.6	-13.0	-50.6	
2.1270	-12.9	V	3.0	39.3	1.0	-51.2	-13.0	-38.2	
2.8360	-22.4	V	3.0	39.7	1.0	-61.1	-13.0	-48.1	
1.4180	-27.8	H	3.0	39.0	1.0	-65.8	-13.0	-52.8	
2.1270	-15.8	H	3.0	39.3	1.0	-54.1	-13.0	-41.1	
2.8360	-22.5	H	3.0	39.7	1.0	-61.3	-13.0	-48.3	
Mid Channel (710MHz)									
1.4200	-23.3	V	3.0	39.0	1.0	-61.3	-13.0	-48.3	
2.1300	-14.2	V	3.0	39.3	1.0	-52.5	-13.0	-39.5	
2.8400	-23.4	V	3.0	39.7	1.0	-62.1	-13.0	-49.1	
1.4200	-27.1	H	3.0	39.0	1.0	-65.1	-13.0	-52.1	
2.1300	-16.1	H	3.0	39.3	1.0	-54.4	-13.0	-41.4	
2.8400	-23.5	H	3.0	39.7	1.0	-62.2	-13.0	-49.2	
High Channel (711MHz)									
1.4220	-23.4	V	3.0	39.0	1.0	-61.4	-13.0	-48.4	
2.1330	-12.4	V	3.0	39.3	1.0	-50.7	-13.0	-37.7	
2.8440	-23.2	V	3.0	39.7	1.0	-62.0	-13.0	-49.0	
1.4220	-29.2	H	3.0	39.0	1.0	-67.2	-13.0	-54.2	
2.1330	-17.0	H	3.0	39.3	1.0	-55.4	-13.0	-42.4	
2.8440	-23.2	H	3.0	39.7	1.0	-61.9	-13.0	-48.9	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

LTE Band 17 5MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22866 Date: 02-23-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / Y-Position Mode: TX, LTE BAND 17, 5MHz BW, QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit 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 (706.5MHz)</td></tr><tr><td>1.4130</td><td>-25.4</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-63.4</td><td>-13.0</td><td>-50.4</td><td></td></tr><tr><td>2.1195</td><td>-9.4</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-47.7</td><td>-13.0</td><td>-34.7</td><td></td></tr><tr><td>2.8260</td><td>-23.9</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.6</td><td>-13.0</td><td>-49.6</td><td></td></tr><tr><td>1.4130</td><td>-26.2</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-64.2</td><td>-13.0</td><td>-51.2</td><td></td></tr><tr><td>2.1195</td><td>-16.2</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-54.5</td><td>-13.0</td><td>-41.5</td><td></td></tr><tr><td>2.8260</td><td>-24.0</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>-22.8</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-60.8</td><td>-13.0</td><td>-47.8</td><td></td></tr><tr><td>2.1300</td><td>-9.2</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td><td></td></tr><tr><td>2.8400</td><td>-23.6</td><td>V</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>1.4200</td><td>-26.9</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-64.9</td><td>-13.0</td><td>-51.9</td><td></td></tr><tr><td>2.1300</td><td>-16.6</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-54.9</td><td>-13.0</td><td>-41.9</td><td></td></tr><tr><td>2.8400</td><td>-23.1</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-61.8</td><td>-13.0</td><td>-48.8</td><td></td></tr><tr><td colspan="10">High Channel (713.5MHz)</td></tr><tr><td>1.4270</td><td>-24.2</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-62.2</td><td>-13.0</td><td>-49.2</td><td></td></tr><tr><td>2.1405</td><td>-10.0</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-48.4</td><td>-13.0</td><td>-35.4</td><td></td></tr><tr><td>2.8540</td><td>-23.8</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.5</td><td>-13.0</td><td>-49.5</td><td></td></tr><tr><td>1.4270</td><td>-26.2</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-64.2</td><td>-13.0</td><td>-51.2</td><td></td></tr><tr><td>2.1405</td><td>-14.1</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr><tr><td>2.8540</td><td>-23.9</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.6</td><td>-13.0</td><td>-49.6</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table>	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (706.5MHz)										1.4130	-25.4	V	3.0	39.0	1.0	-63.4	-13.0	-50.4		2.1195	-9.4	V	3.0	39.3	1.0	-47.7	-13.0	-34.7		2.8260	-23.9	V	3.0	39.7	1.0	-62.6	-13.0	-49.6		1.4130	-26.2	H	3.0	39.0	1.0	-64.2	-13.0	-51.2		2.1195	-16.2	H	3.0	39.3	1.0	-54.5	-13.0	-41.5		2.8260	-24.0	H	3.0	39.7	1.0	-62.8	-13.0	-49.8		Mid Channel (710MHz)										1.4200	-22.8	V	3.0	39.0	1.0	-60.8	-13.0	-47.8		2.1300	-9.2	V	3.0	39.3	1.0	-47.6	-13.0	-34.6		2.8400	-23.6	V	3.0	39.7	1.0	-62.3	-13.0	-49.3		1.4200	-26.9	H	3.0	39.0	1.0	-64.9	-13.0	-51.9		2.1300	-16.6	H	3.0	39.3	1.0	-54.9	-13.0	-41.9		2.8400	-23.1	H	3.0	39.7	1.0	-61.8	-13.0	-48.8		High Channel (713.5MHz)										1.4270	-24.2	V	3.0	39.0	1.0	-62.2	-13.0	-49.2		2.1405	-10.0	V	3.0	39.3	1.0	-48.4	-13.0	-35.4		2.8540	-23.8	V	3.0	39.7	1.0	-62.5	-13.0	-49.5		1.4270	-26.2	H	3.0	39.0	1.0	-64.2	-13.0	-51.2		2.1405	-14.1	H	3.0	39.3	1.0	-52.5	-13.0	-39.5		2.8540	-23.9	H	3.0	39.7	1.0	-62.6	-13.0	-49.6		Rev. 03.03.09										Note: No other emissions were detected above the system noise floor.									
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LTE Band 17 5MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22866 Date: 02-23-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / Y-Position Mode: TX, LTE BAND 17, 5MHz BW, 16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit 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 (706.5MHz)</td></tr><tr><td>1.4130</td><td>-26.0</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-64.1</td><td>-13.0</td><td>-51.1</td><td></td></tr><tr><td>2.1195</td><td>-10.7</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-49.0</td><td>-13.0</td><td>-36.0</td><td></td></tr><tr><td>2.8260</td><td>-24.0</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.7</td><td>-13.0</td><td>-49.7</td><td></td></tr><tr><td>1.4130</td><td>-26.9</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-64.9</td><td>-13.0</td><td>-51.9</td><td></td></tr><tr><td>2.1195</td><td>-17.5</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-55.8</td><td>-13.0</td><td>-42.8</td><td></td></tr><tr><td>2.8260</td><td>-24.0</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.7</td><td>-13.0</td><td>-49.7</td><td></td></tr><tr><td colspan="10">Mid Channel (710MHz)</td></tr><tr><td>1.4200</td><td>-24.0</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-62.0</td><td>-13.0</td><td>-49.0</td><td></td></tr><tr><td>2.1300</td><td>-12.2</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-50.5</td><td>-13.0</td><td>-37.5</td><td></td></tr><tr><td>2.8400</td><td>-23.6</td><td>V</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>1.4200</td><td>-27.2</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-65.2</td><td>-13.0</td><td>-52.2</td><td></td></tr><tr><td>2.1300</td><td>-18.4</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-56.7</td><td>-13.0</td><td>-43.7</td><td></td></tr><tr><td>2.8400</td><td>-23.1</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-61.8</td><td>-13.0</td><td>-48.8</td><td></td></tr><tr><td colspan="10">High Channel (713.5MHz)</td></tr><tr><td>1.4270</td><td>-25.4</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-63.4</td><td>-13.0</td><td>-50.4</td><td></td></tr><tr><td>2.1405</td><td>-13.2</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-51.6</td><td>-13.0</td><td>-38.6</td><td></td></tr><tr><td>2.8540</td><td>-23.9</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.6</td><td>-13.0</td><td>-49.6</td><td></td></tr><tr><td>1.4270</td><td>-27.1</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-65.1</td><td>-13.0</td><td>-52.1</td><td></td></tr><tr><td>2.1405</td><td>-17.3</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-55.6</td><td>-13.0</td><td>-42.6</td><td></td></tr><tr><td>2.8540</td><td>-23.9</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-62.6</td><td>-13.0</td><td>-49.6</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table>	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (706.5MHz)										1.4130	-26.0	V	3.0	39.0	1.0	-64.1	-13.0	-51.1		2.1195	-10.7	V	3.0	39.3	1.0	-49.0	-13.0	-36.0		2.8260	-24.0	V	3.0	39.7	1.0	-62.7	-13.0	-49.7		1.4130	-26.9	H	3.0	39.0	1.0	-64.9	-13.0	-51.9		2.1195	-17.5	H	3.0	39.3	1.0	-55.8	-13.0	-42.8		2.8260	-24.0	H	3.0	39.7	1.0	-62.7	-13.0	-49.7		Mid Channel (710MHz)										1.4200	-24.0	V	3.0	39.0	1.0	-62.0	-13.0	-49.0		2.1300	-12.2	V	3.0	39.3	1.0	-50.5	-13.0	-37.5		2.8400	-23.6	V	3.0	39.7	1.0	-62.3	-13.0	-49.3		1.4200	-27.2	H	3.0	39.0	1.0	-65.2	-13.0	-52.2		2.1300	-18.4	H	3.0	39.3	1.0	-56.7	-13.0	-43.7		2.8400	-23.1	H	3.0	39.7	1.0	-61.8	-13.0	-48.8		High Channel (713.5MHz)										1.4270	-25.4	V	3.0	39.0	1.0	-63.4	-13.0	-50.4		2.1405	-13.2	V	3.0	39.3	1.0	-51.6	-13.0	-38.6		2.8540	-23.9	V	3.0	39.7	1.0	-62.6	-13.0	-49.6		1.4270	-27.1	H	3.0	39.0	1.0	-65.1	-13.0	-52.1		2.1405	-17.3	H	3.0	39.3	1.0	-55.6	-13.0	-42.6		2.8540	-23.9	H	3.0	39.7	1.0	-62.6	-13.0	-49.6		Rev. 03.03.09										Note: No other emissions were detected above the system noise floor.									
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2.1300	-12.2	V	3.0	39.3	1.0	-50.5	-13.0	-37.5																																																																																																																																																																																																																																									
2.8400	-23.6	V	3.0	39.7	1.0	-62.3	-13.0	-49.3																																																																																																																																																																																																																																									
1.4200	-27.2	H	3.0	39.0	1.0	-65.2	-13.0	-52.2																																																																																																																																																																																																																																									
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2.8400	-23.1	H	3.0	39.7	1.0	-61.8	-13.0	-48.8																																																																																																																																																																																																																																									
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1.4270	-25.4	V	3.0	39.0	1.0	-63.4	-13.0	-50.4																																																																																																																																																																																																																																									
2.1405	-13.2	V	3.0	39.3	1.0	-51.6	-13.0	-38.6																																																																																																																																																																																																																																									
2.8540	-23.9	V	3.0	39.7	1.0	-62.6	-13.0	-49.6																																																																																																																																																																																																																																									
1.4270	-27.1	H	3.0	39.0	1.0	-65.1	-13.0	-52.1																																																																																																																																																																																																																																									
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Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																																	

LTE Band 5

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22866
Date: 02-23-16
Test Engineer: Steven.Kim
Configuration: EUT / AC Adapter / Earphone, Y Position
Mode: TX, LTE BAND 5, 10MHz 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 (829MHz)									
1.6580	-18.1	V	3.0	39.1	1.0	-56.2	-13.0	-43.2	
2.4870	-16.3	V	3.0	39.5	1.0	-54.8	-13.0	-41.8	
3.3160	-21.9	V	3.0	40.1	1.0	-61.0	-13.0	-48.0	
1.6580	-25.7	H	3.0	39.1	1.0	-63.8	-13.0	-50.8	
2.4870	-10.3	H	3.0	39.5	1.0	-48.9	-13.0	-35.9	
3.3160	-22.3	H	3.0	40.1	1.0	-61.4	-13.0	-48.4	
Mid Channel (836.5MHz)									
1.6730	-21.9	V	3.0	39.1	1.0	-60.0	-13.0	-47.0	
2.5090	-16.8	V	3.0	39.5	1.0	-55.3	-13.0	-42.3	
3.3460	-22.2	V	3.0	40.1	1.0	-61.3	-13.0	-48.3	
1.6730	-23.9	H	3.0	39.1	1.0	-62.1	-13.0	-49.1	
2.5090	-9.9	H	3.0	39.5	1.0	-48.4	-13.0	-35.4	
3.3460	-22.6	H	3.0	40.1	1.0	-61.8	-13.0	-48.8	
High Channel (844MHz)									
1.6880	-21.9	V	3.0	39.1	1.0	-60.0	-13.0	-47.0	
2.5320	-16.5	V	3.0	39.5	1.0	-55.1	-13.0	-42.1	
3.3760	-22.6	V	3.0	40.2	1.0	-61.8	-13.0	-48.8	
1.6880	-22.0	H	3.0	39.1	1.0	-60.1	-13.0	-47.1	
2.5320	-14.4	H	3.0	39.5	1.0	-53.0	-13.0	-40.0	
3.3760	-22.9	H	3.0	40.2	1.0	-62.1	-13.0	-49.1	

Rev. 03.03.09

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

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22866
Date: 02-23-16
Test Engineer: Steven.Kim
Configuration: EUT / AC Adapter / Earphone, Y Position
Mode: TX, LTE BAND 5, 10MHz 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 (829MHz)									
1.6580	-20.0	V	3.0	39.1	1.0	-58.1	-13.0	-45.1	
2.4870	-16.8	V	3.0	39.5	1.0	-55.3	-13.0	-42.3	
3.3160	-22.1	V	3.0	40.1	1.0	-61.2	-13.0	-48.2	
1.6580	-26.2	H	3.0	39.1	1.0	-64.3	-13.0	-51.3	
2.4870	-12.4	H	3.0	39.5	1.0	-50.9	-13.0	-37.9	
3.3160	-22.3	H	3.0	40.1	1.0	-61.4	-13.0	-48.4	
Mid Channel (836.5MHz)									
1.6730	-22.7	V	3.0	39.1	1.0	-60.9	-13.0	-47.9	
2.5090	-18.1	V	3.0	39.5	1.0	-56.6	-13.0	-43.6	
3.3460	-22.3	V	3.0	40.1	1.0	-61.5	-13.0	-48.5	
1.6730	-24.1	H	3.0	39.1	1.0	-62.2	-13.0	-49.2	
2.5090	-11.6	H	3.0	39.5	1.0	-50.1	-13.0	-37.1	
3.3460	-22.6	H	3.0	40.1	1.0	-61.7	-13.0	-48.7	
High Channel (844MHz)									
1.6880	-22.8	V	3.0	39.1	1.0	-60.9	-13.0	-47.9	
2.5320	-18.3	V	3.0	39.5	1.0	-56.9	-13.0	-43.9	
3.3760	-22.6	V	3.0	40.2	1.0	-61.7	-13.0	-48.7	
1.6880	-23.5	H	3.0	39.1	1.0	-61.7	-13.0	-48.7	
2.5320	-15.2	H	3.0	39.5	1.0	-53.8	-13.0	-40.8	
3.3760	-22.8	H	3.0	40.2	1.0	-62.0	-13.0	-49.0	

Rev. 03.03.09

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

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22866
Date: 03-07-16
Test Engineer: Steven.Kim
Configuration: EUT / AC Adapter / Earphone, Y Position
Mode: TX, LTE BAND 5, 5MHz BW,QPSK

Chamber Pre-amplifier Filter Limit
Chamber 2 AFS42 Filter 1 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 (826.5MHz)									
1.6530	-21.3	V	3.0	39.1	1.0	-59.4	-13.0	-46.4	
2.4790	-20.5	V	3.0	39.5	1.0	-59.0	-13.0	-46.0	
3.3060	-22.9	V	3.0	40.1	1.0	-62.0	-13.0	-49.0	
1.6530	-26.5	H	3.0	39.1	1.0	-64.6	-13.0	-51.6	
2.4790	-22.0	H	3.0	39.5	1.0	-60.5	-13.0	-47.5	
3.3060	-22.9	H	3.0	40.1	1.0	-62.0	-13.0	-49.0	
Mid Channel (836.5MHz)									
1.6730	-20.3	V	3.0	39.1	1.0	-58.4	-13.0	-45.4	
2.5090	-22.8	V	3.0	39.5	1.0	-61.3	-13.0	-48.3	
3.3460	-22.8	V	3.0	40.1	1.0	-61.9	-13.0	-48.9	
1.6730	-25.6	H	3.0	39.1	1.0	-63.7	-13.0	-50.7	
2.5090	-21.5	H	3.0	39.5	1.0	-60.1	-13.0	-47.1	
3.3460	-22.8	H	3.0	40.1	1.0	-61.9	-13.0	-48.9	
High Channel (846.5MHz)									
1.6930	-23.9	V	3.0	39.1	1.0	-62.0	-13.0	-49.0	
2.5390	-23.8	V	3.0	39.6	1.0	-62.3	-13.0	-49.3	
3.3860	-22.5	V	3.0	40.2	1.0	-61.6	-13.0	-48.6	
1.6930	-25.8	H	3.0	39.1	1.0	-64.0	-13.0	-51.0	
2.5390	-22.4	H	3.0	39.6	1.0	-61.0	-13.0	-48.0	
3.3860	-22.8	H	3.0	40.2	1.0	-62.0	-13.0	-49.0	

Rev. 03.03.09

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

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22866
Date: 03-07-16
Test Engineer: Steven.Kim
Configuration: EUT / AC Adapter / Earphone, Y Position
Mode: TX, LTE BAND 5, 5MHz BW,16QAM

Chamber Pre-amplifier Filter Limit
Chamber 2 AFS42 Filter 1 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 (826.5MHz)									
1.6530	-22.3	V	3.0	39.1	1.0	-60.4	-13.0	-47.4	
2.4790	-21.2	V	3.0	39.5	1.0	-59.7	-13.0	-46.7	
3.3060	-23.1	V	3.0	40.1	1.0	-62.2	-13.0	-49.2	
1.6530	-26.7	H	3.0	39.1	1.0	-64.8	-13.0	-51.8	
2.4790	-22.3	H	3.0	39.5	1.0	-60.8	-13.0	-47.8	
3.3060	-23.1	H	3.0	40.1	1.0	-62.2	-13.0	-49.2	
Mid Channel (836.5MHz)									
1.6730	-22.6	V	3.0	39.1	1.0	-60.7	-13.0	-47.7	
2.5090	-23.6	V	3.0	39.5	1.0	-62.2	-13.0	-49.2	
3.3460	-23.0	V	3.0	40.1	1.0	-62.2	-13.0	-49.2	
1.6730	-26.5	H	3.0	39.1	1.0	-64.6	-13.0	-51.6	
2.5090	-23.1	H	3.0	39.5	1.0	-61.6	-13.0	-48.6	
3.3460	-23.2	H	3.0	40.1	1.0	-62.3	-13.0	-49.3	
High Channel (846.5MHz)									
1.6930	-24.4	V	3.0	39.1	1.0	-62.5	-13.0	-49.5	
2.5390	-24.2	V	3.0	39.6	1.0	-62.8	-13.0	-49.8	
3.3860	-22.9	V	3.0	40.2	1.0	-62.1	-13.0	-49.1	
1.6930	-26.7	H	3.0	39.1	1.0	-64.8	-13.0	-51.8	
2.5390	-23.5	H	3.0	39.6	1.0	-62.1	-13.0	-49.1	
3.3860	-23.2	H	3.0	40.2	1.0	-62.4	-13.0	-49.4	

Rev. 03.03.09

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

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22866
Date: 03-07-16
Test Engineer: Steven.Kim
Configuration: EUT / AC Adapter / Earphone, Y Position
Mode: TX LTE BAND 5, 3MHz BW,QPSK

Chamber	Pre-amplifier	Filter	Limit
Chamber 2	AFS42	Filter 1	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 (825.5MHz)									
1.6510	-20.4	V	3.0	39.1	1.0	-58.5	-13.0	-45.5	
2.4765	-20.2	V	3.0	39.5	1.0	-58.7	-13.0	-45.7	
3.3020	-22.8	V	3.0	40.1	1.0	-61.9	-13.0	-48.9	
1.6510	-26.6	H	3.0	39.1	1.0	-64.7	-13.0	-51.7	
2.4765	-19.5	H	3.0	39.5	1.0	-58.0	-13.0	-45.0	
3.3020	-22.7	H	3.0	40.1	1.0	-61.8	-13.0	-48.8	
Mid Channel (836.5MHz)									
1.6730	-20.0	V	3.0	39.1	1.0	-58.1	-13.0	-45.1	
2.5090	-20.7	V	3.0	39.5	1.0	-59.3	-13.0	-46.3	
3.3460	-22.7	V	3.0	40.1	1.0	-61.8	-13.0	-48.8	
1.6730	-25.2	H	3.0	39.1	1.0	-63.3	-13.0	-50.3	
2.5090	-20.6	H	3.0	39.5	1.0	-59.2	-13.0	-46.2	
3.3460	-23.0	H	3.0	40.1	1.0	-62.1	-13.0	-49.1	
High Channel (847.5MHz)									
1.6950	-20.7	V	3.0	39.1	1.0	-58.8	-13.0	-45.8	
2.5425	-23.0	V	3.0	39.6	1.0	-61.6	-13.0	-48.6	
3.3900	-22.7	V	3.0	40.2	1.0	-61.9	-13.0	-48.9	
1.6950	-26.5	H	3.0	39.1	1.0	-64.6	-13.0	-51.6	
2.5425	-22.3	H	3.0	39.6	1.0	-60.8	-13.0	-47.8	
3.3900	-22.6	H	3.0	40.2	1.0	-61.8	-13.0	-48.8	

Rev. 03.03.09
Note: No other emissions were detected above the system noise floor.

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22866
Date: 03-07-16
Test Engineer: Steven.Kim
Configuration: EUT / AC Adapter / Earphone, Y Position
Mode: TX LTE BAND 5, 3MHz BW,16QAM

Chamber	Pre-amplifier	Filter	Limit
Chamber 2	AFS42	Filter 1	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 (825.5MHz)									
1.6510	-21.9	V	3.0	39.1	1.0	-60.0	-13.0	-47.0	
2.4765	-21.6	V	3.0	39.5	1.0	-60.1	-13.0	-47.1	
3.3020	-23.1	V	3.0	40.1	1.0	-62.2	-13.0	-49.2	
1.6510	-26.9	H	3.0	39.1	1.0	-65.0	-13.0	-52.0	
2.4765	-21.5	H	3.0	39.5	1.0	-60.0	-13.0	-47.0	
3.3020	-23.1	H	3.0	40.1	1.0	-62.2	-13.0	-49.2	
Mid Channel (836.5MHz)									
1.6730	-21.8	V	3.0	39.1	1.0	-59.9	-13.0	-46.9	
2.5090	-20.2	V	3.0	39.5	1.0	-58.7	-13.0	-45.7	
3.3460	-22.9	V	3.0	40.1	1.0	-62.1	-13.0	-49.1	
1.6730	-26.0	H	3.0	39.1	1.0	-64.1	-13.0	-51.1	
2.5090	-21.7	H	3.0	39.5	1.0	-60.3	-13.0	-47.3	
3.3460	-22.8	H	3.0	40.1	1.0	-61.9	-13.0	-48.9	
High Channel (847.5MHz)									
1.6950	-22.3	V	3.0	39.1	1.0	-60.4	-13.0	-47.4	
2.5425	-23.5	V	3.0	39.6	1.0	-62.1	-13.0	-49.1	
3.3900	-22.8	V	3.0	40.2	1.0	-62.0	-13.0	-49.0	
1.6950	-26.9	H	3.0	39.1	1.0	-65.0	-13.0	-52.0	
2.5425	-23.6	H	3.0	39.6	1.0	-62.1	-13.0	-49.1	
3.3900	-22.8	H	3.0	40.2	1.0	-62.0	-13.0	-49.0	

Rev. 03.03.09
Note: No other emissions were detected above the system noise floor.

LTE

Band 5

1.4MHz

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	-19.2	V	3.0	39.1	1.0	-57.3	-13.0	-44.3	
2.4741	-20.7	V	3.0	39.5	1.0	-59.3	-13.0	-46.3	
3.2988	-23.0	V	3.0	40.1	1.0	-62.1	-13.0	-49.1	
1.6494	-27.5	H	3.0	39.1	1.0	-65.6	-13.0	-52.6	
2.4741	-20.0	H	3.0	39.5	1.0	-58.5	-13.0	-45.5	
3.2988	-22.9	H	3.0	40.1	1.0	-62.0	-13.0	-49.0	
Mid Channel (836.5MHz)									
1.6730	-22.9	V	3.0	39.1	1.0	-61.0	-13.0	-48.0	
2.5090	-21.6	V	3.0	39.5	1.0	-60.2	-13.0	-47.2	
3.3460	-22.7	V	3.0	40.1	1.0	-61.8	-13.0	-48.8	
1.6730	-24.5	H	3.0	39.1	1.0	-62.6	-13.0	-49.6	
2.5090	-19.4	H	3.0	39.5	1.0	-57.9	-13.0	-44.9	
3.3460	-22.6	H	3.0	40.1	1.0	-61.7	-13.0	-48.7	
High Channel (848.3MHz)									
1.6966	-18.9	V	3.0	39.1	1.0	-57.0	-13.0	-44.0	
2.5449	-23.2	V	3.0	39.6	1.0	-61.8	-13.0	-48.8	
3.3932	-22.4	V	3.0	40.2	1.0	-61.6	-13.0	-48.6	
1.6966	-25.7	H	3.0	39.1	1.0	-63.9	-13.0	-50.9	
2.5449	-20.3	H	3.0	39.6	1.0	-58.8	-13.0	-45.8	
3.3932	-22.2	H	3.0	40.2	1.0	-61.4	-13.0	-48.4	

Rev. 03.03.09

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

LTE

Band 5

1.4MHz

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	-20.9	V	3.0	39.1	1.0	-59.0	-13.0	-46.0	
2.4741	-22.3	V	3.0	39.5	1.0	-60.8	-13.0	-47.8	
3.2988	-23.1	V	3.0	40.1	1.0	-62.2	-13.0	-49.2	
1.6494	-27.2	H	3.0	39.1	1.0	-65.3	-13.0	-52.3	
2.4741	-21.7	H	3.0	39.5	1.0	-60.2	-13.0	-47.2	
3.2988	-23.0	H	3.0	40.1	1.0	-62.1	-13.0	-49.1	
Mid Channel (836.5MHz)									
1.6730	-23.4	V	3.0	39.1	1.0	-61.5	-13.0	-48.5	
2.5090	-22.2	V	3.0	39.5	1.0	-60.7	-13.0	-47.7	
3.3460	-22.8	V	3.0	40.1	1.0	-62.0	-13.0	-49.0	
1.6730	-25.6	H	3.0	39.1	1.0	-63.8	-13.0	-50.8	
2.5090	-20.7	H	3.0	39.5	1.0	-59.3	-13.0	-46.3	
3.3460	-22.9	H	3.0	40.1	1.0	-62.1	-13.0	-49.1	
High Channel (848.3MHz)									
1.6966	-21.0	V	3.0	39.1	1.0	-59.1	-13.0	-46.1	
2.5449	-23.9	V	3.0	39.6	1.0	-62.4	-13.0	-49.4	
3.3932	-22.6	V	3.0	40.2	1.0	-61.8	-13.0	-48.8	
1.6966	-26.1	H	3.0	39.1	1.0	-64.2	-13.0	-51.2	
2.5449	-21.4	H	3.0	39.6	1.0	-60.0	-13.0	-47.0	
3.3932	-22.6	H	3.0	40.2	1.0	-61.8	-13.0	-48.8	

Rev. 03.03.09

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

LTE Band 4

LTE Band 4 20MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22866 Date: 02-29-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 20MHz 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 (1720MHz)</td></tr><tr><td>3.4400</td><td>-8.9</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr><tr><td>5.1600</td><td>-10.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.3</td><td>-13.0</td><td>-37.3</td><td></td></tr><tr><td>6.8800</td><td>-14.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.2</td><td>-13.0</td><td>-41.2</td><td></td></tr><tr><td>3.4400</td><td>-12.4</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-51.6</td><td>-13.0</td><td>-38.6</td><td></td></tr><tr><td>5.1600</td><td>-13.7</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr><tr><td>6.8800</td><td>-12.5</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-8.5</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.7</td><td>-13.0</td><td>-34.7</td><td></td></tr><tr><td>5.1975</td><td>-7.5</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-47.4</td><td>-13.0</td><td>-34.4</td><td></td></tr><tr><td>6.9300</td><td>-14.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.9</td><td>-13.0</td><td>-41.9</td><td></td></tr><tr><td>3.4650</td><td>-11.6</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr><tr><td>5.1975</td><td>-12.2</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr><tr><td>6.9300</td><td>-11.4</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-51.4</td><td>-13.0</td><td>-38.4</td><td></td></tr><tr><td colspan="10">High Channel (1745MHz)</td></tr><tr><td>3.4900</td><td>-7.2</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.5</td><td>-13.0</td><td>-33.5</td><td></td></tr><tr><td>5.2350</td><td>-9.3</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.2</td><td>-13.0</td><td>-36.2</td><td></td></tr><tr><td>6.9800</td><td>-14.8</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr><tr><td>3.4900</td><td>-8.4</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.7</td><td>-13.0</td><td>-34.7</td><td></td></tr><tr><td>5.2350</td><td>-9.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.4</td><td>-13.0</td><td>-36.4</td><td></td></tr><tr><td>6.9800</td><td>-11.9</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</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 (1720MHz)										3.4400	-8.9	V	3.0	40.2	1.0	-48.1	-13.0	-35.1		5.1600	-10.4	V	3.0	40.9	1.0	-50.3	-13.0	-37.3		6.8800	-14.2	V	3.0	41.0	1.0	-54.2	-13.0	-41.2		3.4400	-12.4	H	3.0	40.2	1.0	-51.6	-13.0	-38.6		5.1600	-13.7	H	3.0	40.9	1.0	-53.6	-13.0	-40.6		6.8800	-12.5	H	3.0	41.0	1.0	-52.5	-13.0	-39.5		Mid Channel (1732.5MHz)										3.4650	-8.5	V	3.0	40.3	1.0	-47.7	-13.0	-34.7		5.1975	-7.5	V	3.0	40.9	1.0	-47.4	-13.0	-34.4		6.9300	-14.9	V	3.0	41.0	1.0	-54.9	-13.0	-41.9		3.4650	-11.6	H	3.0	40.3	1.0	-50.9	-13.0	-37.9		5.1975	-12.2	H	3.0	40.9	1.0	-52.0	-13.0	-39.0		6.9300	-11.4	H	3.0	41.0	1.0	-51.4	-13.0	-38.4		High Channel (1745MHz)										3.4900	-7.2	V	3.0	40.3	1.0	-46.5	-13.0	-33.5		5.2350	-9.3	V	3.0	40.9	1.0	-49.2	-13.0	-36.2		6.9800	-14.8	V	3.0	41.0	1.0	-54.8	-13.0	-41.8		3.4900	-8.4	H	3.0	40.3	1.0	-47.7	-13.0	-34.7		5.2350	-9.5	H	3.0	40.9	1.0	-49.4	-13.0	-36.4		6.9800	-11.9	H	3.0	41.0	1.0	-51.9	-13.0	-38.9	
	f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																			
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5.2350	-9.3	V	3.0	40.9	1.0	-49.2	-13.0	-36.2																																																																																																																																																																																																																					
6.9800	-14.8	V	3.0	41.0	1.0	-54.8	-13.0	-41.8																																																																																																																																																																																																																					
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LTE Band 4 20MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22866 Date: 02-29-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 20MHz BW, 16QAM 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 (1720MHz)</td></tr><tr><td>3.4400</td><td>-10.7</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-49.9</td><td>-13.0</td><td>-36.9</td><td></td></tr><tr><td>5.1600</td><td>-11.8</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.7</td><td>-13.0</td><td>-38.7</td><td></td></tr><tr><td>6.8800</td><td>-14.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.9</td><td>-13.0</td><td>-41.9</td><td></td></tr><tr><td>3.4400</td><td>-14.0</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-53.2</td><td>-13.0</td><td>-40.2</td><td></td></tr><tr><td>5.1600</td><td>-16.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-56.0</td><td>-13.0</td><td>-43.0</td><td></td></tr><tr><td>6.8800</td><td>-13.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-9.2</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.4</td><td>-13.0</td><td>-35.4</td><td></td></tr><tr><td>5.1975</td><td>-9.6</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.5</td><td>-13.0</td><td>-36.5</td><td></td></tr><tr><td>6.9300</td><td>-15.3</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr><tr><td>3.4650</td><td>-10.7</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-49.9</td><td>-13.0</td><td>-36.9</td><td></td></tr><tr><td>5.1975</td><td>-12.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.4</td><td>-13.0</td><td>-39.4</td><td></td></tr><tr><td>6.9300</td><td>-12.1</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.1</td><td>-13.0</td><td>-39.1</td><td></td></tr><tr><td colspan="10">High Channel (1745MHz)</td></tr><tr><td>3.4900</td><td>-8.9</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.2</td><td>-13.0</td><td>-35.2</td><td></td></tr><tr><td>5.2350</td><td>-8.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.0</td><td>-13.0</td><td>-35.0</td><td></td></tr><tr><td>6.9800</td><td>-15.0</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.0</td><td>-13.0</td><td>-42.0</td><td></td></tr><tr><td>3.4900</td><td>-10.3</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-49.5</td><td>-13.0</td><td>-36.5</td><td></td></tr><tr><td>5.2350</td><td>-11.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.0</td><td>-13.0</td><td>-38.0</td><td></td></tr><tr><td>6.9800</td><td>-13.1</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.1</td><td>-13.0</td><td>-40.1</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 (1720MHz)										3.4400	-10.7	V	3.0	40.2	1.0	-49.9	-13.0	-36.9		5.1600	-11.8	V	3.0	40.9	1.0	-51.7	-13.0	-38.7		6.8800	-14.9	V	3.0	41.0	1.0	-54.9	-13.0	-41.9		3.4400	-14.0	H	3.0	40.2	1.0	-53.2	-13.0	-40.2		5.1600	-16.1	H	3.0	40.9	1.0	-56.0	-13.0	-43.0		6.8800	-13.7	H	3.0	41.0	1.0	-53.7	-13.0	-40.7		Mid Channel (1732.5MHz)										3.4650	-9.2	V	3.0	40.3	1.0	-48.4	-13.0	-35.4		5.1975	-9.6	V	3.0	40.9	1.0	-49.5	-13.0	-36.5		6.9300	-15.3	V	3.0	41.0	1.0	-55.3	-13.0	-42.3		3.4650	-10.7	H	3.0	40.3	1.0	-49.9	-13.0	-36.9		5.1975	-12.5	H	3.0	40.9	1.0	-52.4	-13.0	-39.4		6.9300	-12.1	H	3.0	41.0	1.0	-52.1	-13.0	-39.1		High Channel (1745MHz)										3.4900	-8.9	V	3.0	40.3	1.0	-48.2	-13.0	-35.2		5.2350	-8.1	V	3.0	40.9	1.0	-48.0	-13.0	-35.0		6.9800	-15.0	V	3.0	41.0	1.0	-55.0	-13.0	-42.0		3.4900	-10.3	H	3.0	40.3	1.0	-49.5	-13.0	-36.5		5.2350	-11.1	H	3.0	40.9	1.0	-51.0	-13.0	-38.0		6.9800	-13.1	H	3.0	41.0	1.0	-53.1	-13.0	-40.1	
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LTE Band 4 15MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22866 Date: 02-29-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 15MHz BW,QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <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>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1717.5MHz)</td></tr><tr><td>3.4350</td><td>-9.0</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-48.2</td><td>-13.0</td><td>-35.2</td><td></td></tr><tr><td>5.1525</td><td>-11.3</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.2</td><td>-13.0</td><td>-38.2</td><td></td></tr><tr><td>6.8700</td><td>-14.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr><tr><td>3.4350</td><td>-11.5</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr><tr><td>5.1525</td><td>-12.9</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr><tr><td>6.8700</td><td>-11.9</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-8.5</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.8</td><td>-13.0</td><td>-34.8</td><td></td></tr><tr><td>5.1975</td><td>-11.0</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr><tr><td>6.9300</td><td>-16.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr><tr><td>3.4650</td><td>-12.7</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr><tr><td>5.1975</td><td>-14.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-53.9</td><td>-13.0</td><td>-40.9</td><td></td></tr><tr><td>6.9300</td><td>-15.3</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr><tr><td colspan="10">High Channel (1747.5MHz)</td></tr><tr><td>3.4950</td><td>-5.7</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-45.0</td><td>-13.0</td><td>-32.0</td><td></td></tr><tr><td>5.2425</td><td>-9.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.3</td><td>-13.0</td><td>-36.3</td><td></td></tr><tr><td>6.9900</td><td>-16.5</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.5</td><td>-13.0</td><td>-43.5</td><td></td></tr><tr><td>3.4950</td><td>-10.6</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-49.9</td><td>-13.0</td><td>-36.9</td><td></td></tr><tr><td>5.2425</td><td>-11.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr><tr><td>6.9900</td><td>-12.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table>	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1717.5MHz)										3.4350	-9.0	V	3.0	40.2	1.0	-48.2	-13.0	-35.2		5.1525	-11.3	V	3.0	40.9	1.0	-51.2	-13.0	-38.2		6.8700	-14.9	V	3.0	41.0	1.0	-54.8	-13.0	-41.8		3.4350	-11.5	H	3.0	40.2	1.0	-50.8	-13.0	-37.8		5.1525	-12.9	H	3.0	40.9	1.0	-52.8	-13.0	-39.8		6.8700	-11.9	H	3.0	41.0	1.0	-51.9	-13.0	-38.9		Mid Channel (1732.5MHz)										3.4650	-8.5	V	3.0	40.3	1.0	-47.8	-13.0	-34.8		5.1975	-11.0	V	3.0	40.9	1.0	-50.9	-13.0	-37.9		6.9300	-16.2	V	3.0	41.0	1.0	-56.2	-13.0	-43.2		3.4650	-12.7	H	3.0	40.3	1.0	-52.0	-13.0	-39.0		5.1975	-14.1	H	3.0	40.9	1.0	-53.9	-13.0	-40.9		6.9300	-15.3	H	3.0	41.0	1.0	-55.3	-13.0	-42.3		High Channel (1747.5MHz)										3.4950	-5.7	V	3.0	40.3	1.0	-45.0	-13.0	-32.0		5.2425	-9.4	V	3.0	40.9	1.0	-49.3	-13.0	-36.3		6.9900	-16.5	V	3.0	41.0	1.0	-56.5	-13.0	-43.5		3.4950	-10.6	H	3.0	40.3	1.0	-49.9	-13.0	-36.9		5.2425	-11.1	H	3.0	40.9	1.0	-50.9	-13.0	-37.9		6.9900	-12.8	H	3.0	41.0	1.0	-52.8	-13.0	-39.8		Rev. 03.03.09										Note: No other emissions were detected above the system noise floor.									
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LTE Band 4 15MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22866 Date: 02-29-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 4, 15MHz BW,16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <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>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1717.5MHz)</td></tr><tr><td>3.4350</td><td>-10.7</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-50.0</td><td>-13.0</td><td>-37.0</td><td></td></tr><tr><td>5.1525</td><td>-12.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr><tr><td>6.8700</td><td>-15.1</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.1</td><td>-13.0</td><td>-42.1</td><td></td></tr><tr><td>3.4350</td><td>-10.3</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-49.5</td><td>-13.0</td><td>-36.5</td><td></td></tr><tr><td>5.1525</td><td>-14.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-54.4</td><td>-13.0</td><td>-41.4</td><td></td></tr><tr><td>6.8700</td><td>-12.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.6</td><td>-13.0</td><td>-39.6</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-10.1</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-49.4</td><td>-13.0</td><td>-36.4</td><td></td></tr><tr><td>5.1975</td><td>-13.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr><tr><td>6.9300</td><td>-16.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr><tr><td>3.4650</td><td>-10.9</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-50.2</td><td>-13.0</td><td>-37.2</td><td></td></tr><tr><td>5.1975</td><td>-15.5</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-55.4</td><td>-13.0</td><td>-42.4</td><td></td></tr><tr><td>6.9300</td><td>-14.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.7</td><td>-13.0</td><td>-41.7</td><td></td></tr><tr><td colspan="10">High Channel (1747.5MHz)</td></tr><tr><td>3.4950</td><td>-8.1</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.4</td><td>-13.0</td><td>-34.4</td><td></td></tr><tr><td>5.2425</td><td>-11.7</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.5</td><td>-13.0</td><td>-38.5</td><td></td></tr><tr><td>6.9900</td><td>-16.5</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.5</td><td>-13.0</td><td>-43.5</td><td></td></tr><tr><td>3.4950</td><td>-12.5</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-51.8</td><td>-13.0</td><td>-38.8</td><td></td></tr><tr><td>5.2425</td><td>-13.8</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr><tr><td>6.9900</td><td>-13.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09</td></tr><tr><td colspan="10">Note: No other emissions were detected above the system noise floor.</td></tr></table>	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1717.5MHz)										3.4350	-10.7	V	3.0	40.2	1.0	-50.0	-13.0	-37.0		5.1525	-12.4	V	3.0	40.9	1.0	-52.3	-13.0	-39.3		6.8700	-15.1	V	3.0	41.0	1.0	-55.1	-13.0	-42.1		3.4350	-10.3	H	3.0	40.2	1.0	-49.5	-13.0	-36.5		5.1525	-14.5	H	3.0	40.9	1.0	-54.4	-13.0	-41.4		6.8700	-12.7	H	3.0	41.0	1.0	-52.6	-13.0	-39.6		Mid Channel (1732.5MHz)										3.4650	-10.1	V	3.0	40.3	1.0	-49.4	-13.0	-36.4		5.1975	-13.1	V	3.0	40.9	1.0	-53.0	-13.0	-40.0		6.9300	-16.2	V	3.0	41.0	1.0	-56.2	-13.0	-43.2		3.4650	-10.9	H	3.0	40.3	1.0	-50.2	-13.0	-37.2		5.1975	-15.5	H	3.0	40.9	1.0	-55.4	-13.0	-42.4		6.9300	-14.7	H	3.0	41.0	1.0	-54.7	-13.0	-41.7		High Channel (1747.5MHz)										3.4950	-8.1	V	3.0	40.3	1.0	-47.4	-13.0	-34.4		5.2425	-11.7	V	3.0	40.9	1.0	-51.5	-13.0	-38.5		6.9900	-16.5	V	3.0	41.0	1.0	-56.5	-13.0	-43.5		3.4950	-12.5	H	3.0	40.3	1.0	-51.8	-13.0	-38.8		5.2425	-13.8	H	3.0	40.9	1.0	-53.7	-13.0	-40.7		6.9900	-13.8	H	3.0	41.0	1.0	-53.8	-13.0	-40.8		Rev. 03.03.09										Note: No other emissions were detected above the system noise floor.									
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7.0100	-12.1	H	3.0	41.0	1.0	-52.1	-13.0	-39.1																																																																																																																																																																																																																					
LTE Band 4 5MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22866 Date: 02-29-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 7, 5MHz BW, 16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit 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 (1712.5MHz)</td></tr><tr><td>3.4250</td><td>-10.5</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-49.7</td><td>-13.0</td><td>-36.7</td><td></td></tr><tr><td>5.1375</td><td>-13.7</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr><tr><td>6.8500</td><td>-15.0</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.0</td><td>-13.0</td><td>-42.0</td><td></td></tr><tr><td>3.4250</td><td>-13.7</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr><tr><td>5.1375</td><td>-16.2</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-56.1</td><td>-13.0</td><td>-43.1</td><td></td></tr><tr><td>6.8500</td><td>-11.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-51.7</td><td>-13.0</td><td>-38.7</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-8.8</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.0</td><td>-13.0</td><td>-35.0</td><td></td></tr><tr><td>5.1975</td><td>-13.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr><tr><td>6.9300</td><td>-16.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr><tr><td>3.4650</td><td>-14.6</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr><tr><td>5.1975</td><td>-16.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-56.0</td><td>-13.0</td><td>-43.0</td><td></td></tr><tr><td>6.9300</td><td>-13.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr><tr><td colspan="10">High Channel (1752.5MHz)</td></tr><tr><td>3.5050</td><td>-9.1</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.4</td><td>-13.0</td><td>-35.4</td><td></td></tr><tr><td>5.2575</td><td>-12.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr><tr><td>7.0100</td><td>-15.7</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.7</td><td>-13.0</td><td>-42.7</td><td></td></tr><tr><td>3.5050</td><td>-13.2</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr><tr><td>5.2575</td><td>-14.8</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-54.6</td><td>-13.0</td><td>-41.6</td><td></td></tr><tr><td>7.0100</td><td>-12.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-52.8</td><td>-13.0</td><td>-39.8</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 (1712.5MHz)										3.4250	-10.5	V	3.0	40.2	1.0	-49.7	-13.0	-36.7		5.1375	-13.7	V	3.0	40.9	1.0	-53.6	-13.0	-40.6		6.8500	-15.0	V	3.0	41.0	1.0	-55.0	-13.0	-42.0		3.4250	-13.7	H	3.0	40.2	1.0	-52.9	-13.0	-39.9		5.1375	-16.2	H	3.0	40.9	1.0	-56.1	-13.0	-43.1		6.8500	-11.7	H	3.0	41.0	1.0	-51.7	-13.0	-38.7		Mid Channel (1732.5MHz)										3.4650	-8.8	V	3.0	40.3	1.0	-48.0	-13.0	-35.0		5.1975	-13.1	V	3.0	40.9	1.0	-53.0	-13.0	-40.0		6.9300	-16.2	V	3.0	41.0	1.0	-56.2	-13.0	-43.2		3.4650	-14.6	H	3.0	40.3	1.0	-53.8	-13.0	-40.8		5.1975	-16.1	H	3.0	40.9	1.0	-56.0	-13.0	-43.0		6.9300	-13.7	H	3.0	41.0	1.0	-53.7	-13.0	-40.7		High Channel (1752.5MHz)										3.5050	-9.1	V	3.0	40.3	1.0	-48.4	-13.0	-35.4		5.2575	-12.1	V	3.0	40.9	1.0	-52.0	-13.0	-39.0		7.0100	-15.7	V	3.0	41.0	1.0	-55.7	-13.0	-42.7		3.5050	-13.2	H	3.0	40.3	1.0	-52.5	-13.0	-39.5		5.2575	-14.8	H	3.0	40.9	1.0	-54.6	-13.0	-41.6		7.0100	-12.8	H	3.0	41.0	1.0	-52.8	-13.0	-39.8	
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LTE Band 4 3MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Project #: Date: Test Engineer: Configuration: Mode: Samsung 16K22866 03-02-16 Steven Kim EUT / AC Adapter / Ear Phone / Z-Position TX, LTE BAND 4, 3MHz BW,QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <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>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (1711.5MHz)</td></tr> <tr><td>3.4230</td><td>-8.9</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr> <tr><td>5.1345</td><td>-6.5</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.4</td><td>-13.0</td><td>-33.4</td><td></td></tr> <tr><td>6.8460</td><td>-15.4</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr> <tr><td>3.4230</td><td>-12.4</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-51.6</td><td>-13.0</td><td>-38.6</td><td></td></tr> <tr><td>5.1345</td><td>-7.7</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td><td></td></tr> <tr><td>6.8460</td><td>-13.1</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.1</td><td>-13.0</td><td>-40.1</td><td></td></tr> <tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr> <tr><td>3.4650</td><td>-7.2</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.5</td><td>-13.0</td><td>-33.5</td><td></td></tr> <tr><td>5.1975</td><td>-7.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-47.3</td><td>-13.0</td><td>-34.3</td><td></td></tr> <tr><td>6.9300</td><td>-15.1</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.1</td><td>-13.0</td><td>-42.1</td><td></td></tr> <tr><td>3.4650</td><td>-11.1</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-50.3</td><td>-13.0</td><td>-37.3</td><td></td></tr> <tr><td>5.1975</td><td>-6.4</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.3</td><td>-13.0</td><td>-33.3</td><td></td></tr> <tr><td>6.9300</td><td>-13.0</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr> <tr><td colspan="10">High Channel (1753.5MHz)</td></tr> <tr><td>3.5070</td><td>-6.9</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-46.2</td><td>-13.0</td><td>-33.2</td><td></td></tr> <tr><td>5.2605</td><td>-8.7</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.5</td><td>-13.0</td><td>-35.5</td><td></td></tr> <tr><td>7.0140</td><td>-15.7</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.7</td><td>-13.0</td><td>-42.7</td><td></td></tr> <tr><td>3.5070</td><td>-8.3</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.5</td><td>-13.0</td><td>-34.5</td><td></td></tr> <tr><td>5.2605</td><td>-4.2</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-44.1</td><td>-13.0</td><td>-31.1</td><td></td></tr> <tr><td>7.0140</td><td>-13.7</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</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)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1711.5MHz)										3.4230	-8.9	V	3.0	40.2	1.0	-48.1	-13.0	-35.1		5.1345	-6.5	V	3.0	40.9	1.0	-46.4	-13.0	-33.4		6.8460	-15.4	V	3.0	41.0	1.0	-55.3	-13.0	-42.3		3.4230	-12.4	H	3.0	40.2	1.0	-51.6	-13.0	-38.6		5.1345	-7.7	H	3.0	40.9	1.0	-47.6	-13.0	-34.6		6.8460	-13.1	H	3.0	41.0	1.0	-53.1	-13.0	-40.1		Mid Channel (1732.5MHz)										3.4650	-7.2	V	3.0	40.3	1.0	-46.5	-13.0	-33.5		5.1975	-7.4	V	3.0	40.9	1.0	-47.3	-13.0	-34.3		6.9300	-15.1	V	3.0	41.0	1.0	-55.1	-13.0	-42.1		3.4650	-11.1	H	3.0	40.3	1.0	-50.3	-13.0	-37.3		5.1975	-6.4	H	3.0	40.9	1.0	-46.3	-13.0	-33.3		6.9300	-13.0	H	3.0	41.0	1.0	-53.0	-13.0	-40.0		High Channel (1753.5MHz)										3.5070	-6.9	V	3.0	40.3	1.0	-46.2	-13.0	-33.2		5.2605	-8.7	V	3.0	40.9	1.0	-48.5	-13.0	-35.5		7.0140	-15.7	V	3.0	41.0	1.0	-55.7	-13.0	-42.7		3.5070	-8.3	H	3.0	40.3	1.0	-47.5	-13.0	-34.5		5.2605	-4.2	H	3.0	40.9	1.0	-44.1	-13.0	-31.1		7.0140	-13.7	H	3.0	41.0	1.0	-53.7	-13.0	-40.7	
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LTE Band 4 3MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Project #: Date: Test Engineer: Configuration: Mode: Samsung 16K22866 03-02-16 Steven Kim EUT / AC Adapter / Ear Phone / Z-Position TX, LTE BAND 4, 3MHz BW,16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27 <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>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr> <tr><td colspan="10">Low Channel (1711.5MHz)</td></tr> <tr><td>3.4230</td><td>-9.8</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-49.0</td><td>-13.0</td><td>-36.0</td><td></td></tr> <tr><td>5.1345</td><td>-8.3</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.2</td><td>-13.0</td><td>-35.2</td><td></td></tr> <tr><td>6.8460</td><td>-15.3</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr> <tr><td>3.4230</td><td>-13.4</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-52.6</td><td>-13.0</td><td>-39.6</td><td></td></tr> <tr><td>5.1345</td><td>-9.6</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.5</td><td>-13.0</td><td>-36.5</td><td></td></tr> <tr><td>6.8460</td><td>-13.5</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.5</td><td>-13.0</td><td>-40.5</td><td></td></tr> <tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr> <tr><td>3.4650</td><td>-8.7</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.9</td><td>-13.0</td><td>-34.9</td><td></td></tr> <tr><td>5.1975</td><td>-9.2</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.1</td><td>-13.0</td><td>-36.1</td><td></td></tr> <tr><td>6.9300</td><td>-15.3</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr> <tr><td>3.4650</td><td>-12.9</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-52.2</td><td>-13.0</td><td>-39.2</td><td></td></tr> <tr><td>5.1975</td><td>-9.9</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.8</td><td>-13.0</td><td>-36.8</td><td></td></tr> <tr><td>6.9300</td><td>-13.3</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-53.3</td><td>-13.0</td><td>-40.3</td><td></td></tr> <tr><td colspan="10">High Channel (1752.5MHz)</td></tr> <tr><td>3.5070</td><td>-5.9</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-45.2</td><td>-13.0</td><td>-32.2</td><td></td></tr> <tr><td>5.2605</td><td>-5.5</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-45.4</td><td>-13.0</td><td>-32.4</td><td></td></tr> <tr><td>7.0140</td><td>-15.8</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-55.8</td><td>-13.0</td><td>-42.8</td><td></td></tr> <tr><td>3.5070</td><td>-9.4</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.7</td><td>-13.0</td><td>-35.7</td><td></td></tr> <tr><td>5.2605</td><td>-7.3</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-47.2</td><td>-13.0</td><td>-34.2</td><td></td></tr> <tr><td>7.0140</td><td>-14.2</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-54.2</td><td>-13.0</td><td>-41.2</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)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1711.5MHz)										3.4230	-9.8	V	3.0	40.2	1.0	-49.0	-13.0	-36.0		5.1345	-8.3	V	3.0	40.9	1.0	-48.2	-13.0	-35.2		6.8460	-15.3	V	3.0	41.0	1.0	-55.3	-13.0	-42.3		3.4230	-13.4	H	3.0	40.2	1.0	-52.6	-13.0	-39.6		5.1345	-9.6	H	3.0	40.9	1.0	-49.5	-13.0	-36.5		6.8460	-13.5	H	3.0	41.0	1.0	-53.5	-13.0	-40.5		Mid Channel (1732.5MHz)										3.4650	-8.7	V	3.0	40.3	1.0	-47.9	-13.0	-34.9		5.1975	-9.2	V	3.0	40.9	1.0	-49.1	-13.0	-36.1		6.9300	-15.3	V	3.0	41.0	1.0	-55.3	-13.0	-42.3		3.4650	-12.9	H	3.0	40.3	1.0	-52.2	-13.0	-39.2		5.1975	-9.9	H	3.0	40.9	1.0	-49.8	-13.0	-36.8		6.9300	-13.3	H	3.0	41.0	1.0	-53.3	-13.0	-40.3		High Channel (1752.5MHz)										3.5070	-5.9	V	3.0	40.3	1.0	-45.2	-13.0	-32.2		5.2605	-5.5	V	3.0	40.9	1.0	-45.4	-13.0	-32.4		7.0140	-15.8	V	3.0	41.0	1.0	-55.8	-13.0	-42.8		3.5070	-9.4	H	3.0	40.3	1.0	-48.7	-13.0	-35.7		5.2605	-7.3	H	3.0	40.9	1.0	-47.2	-13.0	-34.2		7.0140	-14.2	H	3.0	41.0	1.0	-54.2	-13.0	-41.2	
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LTE Band 2

LTE Band 2 20MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22866 Date: 03-08-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 2, 20MHz BW, QPSK ChamberPre-amplifierFilterLimit Chamber 2AFS42Filter 1FCC Part 24 <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>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1860MHz)</td></tr><tr><td>3.7200</td><td>-3.8</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-43.3</td><td>-13.0</td><td>-30.3</td><td></td></tr><tr><td>5.5800</td><td>-4.9</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.7</td><td>-13.0</td><td>-31.7</td><td></td></tr><tr><td>7.4400</td><td>-14.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.3</td><td>-13.0</td><td>-41.3</td><td></td></tr><tr><td>3.7200</td><td>-9.9</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-49.4</td><td>-13.0</td><td>-36.4</td><td></td></tr><tr><td>5.5800</td><td>-2.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-42.1</td><td>-13.0</td><td>-29.1</td><td></td></tr><tr><td>7.4400</td><td>-13.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr><tr><td colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-4.9</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-44.5</td><td>-13.0</td><td>-31.5</td><td></td></tr><tr><td>5.6400</td><td>-3.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.0</td><td>-13.0</td><td>-30.0</td><td></td></tr><tr><td>7.5200</td><td>-14.4</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.1</td><td>-13.0</td><td>-41.1</td><td></td></tr><tr><td>3.7600</td><td>-8.5</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr><tr><td>5.6400</td><td>-3.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.1</td><td>-13.0</td><td>-30.1</td><td></td></tr><tr><td>7.5200</td><td>-12.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr><tr><td colspan="10">High Channel (1900MHz)</td></tr><tr><td>3.8000</td><td>-2.7</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-42.3</td><td>-13.0</td><td>-29.3</td><td></td></tr><tr><td>5.7000</td><td>-3.9</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.7</td><td>-13.0</td><td>-30.7</td><td></td></tr><tr><td>7.6000</td><td>-13.9</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr><tr><td>3.8000</td><td>-6.5</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-46.1</td><td>-13.0</td><td>-33.1</td><td></td></tr><tr><td>5.7000</td><td>3.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-36.3</td><td>-13.0</td><td>-23.3</td><td></td></tr><tr><td>7.6000</td><td>-12.5</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-52.2</td><td>-13.0</td><td>-39.2</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</td></tr></table>	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1860MHz)										3.7200	-3.8	V	3.0	40.5	1.0	-43.3	-13.0	-30.3		5.5800	-4.9	V	3.0	40.8	1.0	-44.7	-13.0	-31.7		7.4400	-14.6	V	3.0	40.8	1.0	-54.3	-13.0	-41.3		3.7200	-9.9	H	3.0	40.5	1.0	-49.4	-13.0	-36.4		5.5800	-2.3	H	3.0	40.8	1.0	-42.1	-13.0	-29.1		7.4400	-13.3	H	3.0	40.8	1.0	-53.0	-13.0	-40.0		Mid Channel (1880MHz)										3.7600	-4.9	V	3.0	40.5	1.0	-44.5	-13.0	-31.5		5.6400	-3.2	V	3.0	40.8	1.0	-43.0	-13.0	-30.0		7.5200	-14.4	V	3.0	40.7	1.0	-54.1	-13.0	-41.1		3.7600	-8.5	H	3.0	40.5	1.0	-48.1	-13.0	-35.1		5.6400	-3.3	H	3.0	40.8	1.0	-43.1	-13.0	-30.1		7.5200	-12.3	H	3.0	40.7	1.0	-52.0	-13.0	-39.0		High Channel (1900MHz)										3.8000	-2.7	V	3.0	40.6	1.0	-42.3	-13.0	-29.3		5.7000	-3.9	V	3.0	40.8	1.0	-43.7	-13.0	-30.7		7.6000	-13.9	V	3.0	40.7	1.0	-53.6	-13.0	-40.6		3.8000	-6.5	H	3.0	40.6	1.0	-46.1	-13.0	-33.1		5.7000	3.5	H	3.0	40.8	1.0	-36.3	-13.0	-23.3		7.6000	-12.5	H	3.0	40.7	1.0	-52.2	-13.0	-39.2		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									
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LTE Band 2 20MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22866 Date: 03-08-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 2, 20MHz BW, 16QAM ChamberPre-amplifierFilterLimit Chamber 2AFS42Filter 1FCC Part 24 <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>ERP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Channel (1860MHz)</td></tr><tr><td>3.7200</td><td>-5.6</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.1</td><td>-13.0</td><td>-32.1</td><td></td></tr><tr><td>5.5800</td><td>-7.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.0</td><td>-13.0</td><td>-34.0</td><td></td></tr><tr><td>7.4400</td><td>-15.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr><tr><td>3.7200</td><td>-11.6</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-51.1</td><td>-13.0</td><td>-38.1</td><td></td></tr><tr><td>5.5800</td><td>-5.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.8</td><td>-13.0</td><td>-31.8</td><td></td></tr><tr><td>7.4400</td><td>-14.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.0</td><td>-13.0</td><td>-41.0</td><td></td></tr><tr><td colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-6.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.6</td><td>-13.0</td><td>-32.6</td><td></td></tr><tr><td>5.6400</td><td>-4.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.3</td><td>-13.0</td><td>-31.3</td><td></td></tr><tr><td>7.5200</td><td>-14.8</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.5</td><td>-13.0</td><td>-41.5</td><td></td></tr><tr><td>3.7600</td><td>-9.6</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-49.1</td><td>-13.0</td><td>-36.1</td><td></td></tr><tr><td>5.6400</td><td>-4.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.1</td><td>-13.0</td><td>-31.1</td><td></td></tr><tr><td>7.5200</td><td>-12.2</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</td><td></td></tr><tr><td colspan="10">High Channel (1900MHz)</td></tr><tr><td>3.8000</td><td>-4.1</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-43.7</td><td>-13.0</td><td>-30.7</td><td></td></tr><tr><td>5.7000</td><td>-1.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-41.5</td><td>-13.0</td><td>-28.5</td><td></td></tr><tr><td>7.6000</td><td>-14.4</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.0</td><td>-13.0</td><td>-41.0</td><td></td></tr><tr><td>3.8000</td><td>-5.0</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-44.5</td><td>-13.0</td><td>-31.5</td><td></td></tr><tr><td>5.7000</td><td>1.4</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-38.4</td><td>-13.0</td><td>-25.4</td><td></td></tr><tr><td>7.6000</td><td>-13.4</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr><tr><td colspan="10">Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.</td></tr></table>	f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Channel (1860MHz)										3.7200	-5.6	V	3.0	40.5	1.0	-45.1	-13.0	-32.1		5.5800	-7.2	V	3.0	40.8	1.0	-47.0	-13.0	-34.0		7.4400	-15.5	V	3.0	40.8	1.0	-55.3	-13.0	-42.3		3.7200	-11.6	H	3.0	40.5	1.0	-51.1	-13.0	-38.1		5.5800	-5.0	H	3.0	40.8	1.0	-44.8	-13.0	-31.8		7.4400	-14.3	H	3.0	40.8	1.0	-54.0	-13.0	-41.0		Mid Channel (1880MHz)										3.7600	-6.0	V	3.0	40.5	1.0	-45.6	-13.0	-32.6		5.6400	-4.5	V	3.0	40.8	1.0	-44.3	-13.0	-31.3		7.5200	-14.8	V	3.0	40.7	1.0	-54.5	-13.0	-41.5		3.7600	-9.6	H	3.0	40.5	1.0	-49.1	-13.0	-36.1		5.6400	-4.3	H	3.0	40.8	1.0	-44.1	-13.0	-31.1		7.5200	-12.2	H	3.0	40.7	1.0	-51.9	-13.0	-38.9		High Channel (1900MHz)										3.8000	-4.1	V	3.0	40.6	1.0	-43.7	-13.0	-30.7		5.7000	-1.7	V	3.0	40.8	1.0	-41.5	-13.0	-28.5		7.6000	-14.4	V	3.0	40.7	1.0	-54.0	-13.0	-41.0		3.8000	-5.0	H	3.0	40.6	1.0	-44.5	-13.0	-31.5		5.7000	1.4	H	3.0	40.8	1.0	-38.4	-13.0	-25.4		7.6000	-13.4	H	3.0	40.7	1.0	-53.0	-13.0	-40.0		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									
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LTE Band 2 15MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22866 Date: 03-08-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 2, 15MHz BW, QPSK Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 24 <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 (1857.5MHz)</td></tr><tr><td>3.7150</td><td>-4.1</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-43.6</td><td>-13.0</td><td>-30.6</td><td></td></tr><tr><td>5.5725</td><td>-7.8</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td><td></td></tr><tr><td>7.4300</td><td>-15.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-55.4</td><td>-13.0</td><td>-42.4</td><td></td></tr><tr><td>3.7150</td><td>-10.3</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-49.8</td><td>-13.0</td><td>-36.8</td><td></td></tr><tr><td>5.5725</td><td>-4.4</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.3</td><td>-13.0</td><td>-31.3</td><td></td></tr><tr><td>7.4300</td><td>-12.9</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.7</td><td>-13.0</td><td>-39.7</td><td></td></tr><tr><td colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-4.5</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-44.1</td><td>-13.0</td><td>-31.1</td><td></td></tr><tr><td>5.6400</td><td>-4.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.1</td><td>-13.0</td><td>-31.1</td><td></td></tr><tr><td>7.5200</td><td>-14.6</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.3</td><td>-13.0</td><td>-41.3</td><td></td></tr><tr><td>3.7600</td><td>-8.8</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-48.3</td><td>-13.0</td><td>-35.3</td><td></td></tr><tr><td>5.6400</td><td>-1.2</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-41.0</td><td>-13.0</td><td>-28.0</td><td></td></tr><tr><td>7.5200</td><td>-12.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr><tr><td colspan="10">High Channel (1902.5MHz)</td></tr><tr><td>3.8050</td><td>-7.8</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-47.4</td><td>-13.0</td><td>-34.4</td><td></td></tr><tr><td>5.7075</td><td>-0.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-40.4</td><td>-13.0</td><td>-27.4</td><td></td></tr><tr><td>7.6100</td><td>-15.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr><tr><td>3.8050</td><td>-4.4</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-44.0</td><td>-13.0</td><td>-31.0</td><td></td></tr><tr><td>5.7075</td><td>3.2</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-36.6</td><td>-13.0</td><td>-23.6</td><td></td></tr><tr><td>7.6100</td><td>-13.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</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 (1857.5MHz)										3.7150	-4.1	V	3.0	40.5	1.0	-43.6	-13.0	-30.6		5.5725	-7.8	V	3.0	40.8	1.0	-47.6	-13.0	-34.6		7.4300	-15.7	V	3.0	40.8	1.0	-55.4	-13.0	-42.4		3.7150	-10.3	H	3.0	40.5	1.0	-49.8	-13.0	-36.8		5.5725	-4.4	H	3.0	40.8	1.0	-44.3	-13.0	-31.3		7.4300	-12.9	H	3.0	40.8	1.0	-52.7	-13.0	-39.7		Mid Channel (1880MHz)										3.7600	-4.5	V	3.0	40.5	1.0	-44.1	-13.0	-31.1		5.6400	-4.3	V	3.0	40.8	1.0	-44.1	-13.0	-31.1		7.5200	-14.6	V	3.0	40.7	1.0	-54.3	-13.0	-41.3		3.7600	-8.8	H	3.0	40.5	1.0	-48.3	-13.0	-35.3		5.6400	-1.2	H	3.0	40.8	1.0	-41.0	-13.0	-28.0		7.5200	-12.3	H	3.0	40.7	1.0	-52.0	-13.0	-39.0		High Channel (1902.5MHz)										3.8050	-7.8	V	3.0	40.6	1.0	-47.4	-13.0	-34.4		5.7075	-0.6	V	3.0	40.8	1.0	-40.4	-13.0	-27.4		7.6100	-15.1	V	3.0	40.7	1.0	-54.8	-13.0	-41.8		3.8050	-4.4	H	3.0	40.6	1.0	-44.0	-13.0	-31.0		5.7075	3.2	H	3.0	40.8	1.0	-36.6	-13.0	-23.6		7.6100	-13.3	H	3.0	40.7	1.0	-53.0	-13.0	-40.0	
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LTE Band 2 15MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22866 Date: 03-08-16 Test Engineer: Steven.Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 2, 15MHz BW, 16QAM Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 24 <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 (1857.5MHz)</td></tr><tr><td>3.7150</td><td>-5.5</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.0</td><td>-13.0</td><td>-32.0</td><td></td></tr><tr><td>5.5725</td><td>-8.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr><tr><td>7.4300</td><td>-15.4</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-55.2</td><td>-13.0</td><td>-42.2</td><td></td></tr><tr><td>3.7150</td><td>-11.9</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-51.4</td><td>-13.0</td><td>-38.4</td><td></td></tr><tr><td>5.5725</td><td>-5.9</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-45.7</td><td>-13.0</td><td>-32.7</td><td></td></tr><tr><td>7.4300</td><td>-13.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.2</td><td>-13.0</td><td>-40.2</td><td></td></tr><tr><td colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-6.6</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.2</td><td>-13.0</td><td>-33.2</td><td></td></tr><tr><td>5.6400</td><td>-6.4</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.2</td><td>-13.0</td><td>-33.2</td><td></td></tr><tr><td>7.5200</td><td>-15.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr><tr><td>3.7600</td><td>-10.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-49.7</td><td>-13.0</td><td>-36.7</td><td></td></tr><tr><td>5.6400</td><td>-4.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-44.5</td><td>-13.0</td><td>-31.5</td><td></td></tr><tr><td>7.5200</td><td>-13.4</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.1</td><td>-13.0</td><td>-40.1</td><td></td></tr><tr><td colspan="10">High Channel (1902.5MHz)</td></tr><tr><td>3.8050</td><td>-3.8</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-43.4</td><td>-13.0</td><td>-30.4</td><td></td></tr><tr><td>5.7075</td><td>-3.2</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-43.0</td><td>-13.0</td><td>-30.0</td><td></td></tr><tr><td>7.6100</td><td>-14.8</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.5</td><td>-13.0</td><td>-41.5</td><td></td></tr><tr><td>3.8050</td><td>-6.3</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-45.9</td><td>-13.0</td><td>-32.9</td><td></td></tr><tr><td>5.7075</td><td>1.5</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-38.3</td><td>-13.0</td><td>-25.3</td><td></td></tr><tr><td>7.6100</td><td>-14.2</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.9</td><td>-13.0</td><td>-40.9</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 (1857.5MHz)										3.7150	-5.5	V	3.0	40.5	1.0	-45.0	-13.0	-32.0		5.5725	-8.3	V	3.0	40.8	1.0	-48.1	-13.0	-35.1		7.4300	-15.4	V	3.0	40.8	1.0	-55.2	-13.0	-42.2		3.7150	-11.9	H	3.0	40.5	1.0	-51.4	-13.0	-38.4		5.5725	-5.9	H	3.0	40.8	1.0	-45.7	-13.0	-32.7		7.4300	-13.5	H	3.0	40.8	1.0	-53.2	-13.0	-40.2		Mid Channel (1880MHz)										3.7600	-6.6	V	3.0	40.5	1.0	-46.2	-13.0	-33.2		5.6400	-6.4	V	3.0	40.8	1.0	-46.2	-13.0	-33.2		7.5200	-15.1	V	3.0	40.7	1.0	-54.8	-13.0	-41.8		3.7600	-10.2	H	3.0	40.5	1.0	-49.7	-13.0	-36.7		5.6400	-4.7	H	3.0	40.8	1.0	-44.5	-13.0	-31.5		7.5200	-13.4	H	3.0	40.7	1.0	-53.1	-13.0	-40.1		High Channel (1902.5MHz)										3.8050	-3.8	V	3.0	40.6	1.0	-43.4	-13.0	-30.4		5.7075	-3.2	V	3.0	40.8	1.0	-43.0	-13.0	-30.0		7.6100	-14.8	V	3.0	40.7	1.0	-54.5	-13.0	-41.5		3.8050	-6.3	H	3.0	40.6	1.0	-45.9	-13.0	-32.9		5.7075	1.5	H	3.0	40.8	1.0	-38.3	-13.0	-25.3		7.6100	-14.2	H	3.0	40.7	1.0	-53.9	-13.0	-40.9	
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LTE Band 2 10MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K22866 Date: 03-08-16 Test Engineer: Steven Kim Configuration: EUT / AC Adapter / Ear Phone / Z-Position Mode: TX, LTE BAND 2, 10MHz BW,16QAM Chamber Pre-amplifier Filter Limit Chamber 2 AFS42 Filter 1 FCC Part 24 <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 (1855MHz)</td></tr><tr><td>3.7100</td><td>-7.4</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-46.9</td><td>-13.0</td><td>-33.9</td><td></td></tr><tr><td>5.5650</td><td>-7.6</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.4</td><td>-13.0</td><td>-34.4</td><td></td></tr><tr><td>7.4200</td><td>-16.4</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-56.2</td><td>-13.0</td><td>-43.2</td><td></td></tr><tr><td>3.7100</td><td>-12.4</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-51.9</td><td>-13.0</td><td>-38.9</td><td></td></tr><tr><td>5.5650</td><td>-6.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.5</td><td>-13.0</td><td>-33.5</td><td></td></tr><tr><td>7.4200</td><td>-14.3</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.1</td><td>-13.0</td><td>-41.1</td><td></td></tr><tr><td colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-5.5</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-45.0</td><td>-13.0</td><td>-32.0</td><td></td></tr><tr><td>5.6400</td><td>-5.3</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-45.1</td><td>-13.0</td><td>-32.1</td><td></td></tr><tr><td>7.5200</td><td>-15.1</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr><tr><td>3.7600</td><td>-9.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-48.7</td><td>-13.0</td><td>-35.7</td><td></td></tr><tr><td>5.6400</td><td>-1.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-40.9</td><td>-13.0</td><td>-27.9</td><td></td></tr><tr><td>7.5200</td><td>-13.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr><tr><td colspan="10">High Channel (1905MHz)</td></tr><tr><td>3.8100</td><td>-4.7</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-44.3</td><td>-13.0</td><td>-31.3</td><td></td></tr><tr><td>5.7150</td><td>-1.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-41.3</td><td>-13.0</td><td>-28.3</td><td></td></tr><tr><td>7.6200</td><td>-15.5</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-55.1</td><td>-13.0</td><td>-42.1</td><td></td></tr><tr><td>3.8100</td><td>-6.4</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-46.0</td><td>-13.0</td><td>-33.0</td><td></td></tr><tr><td>5.7150</td><td>3.8</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-36.0</td><td>-13.0</td><td>-23.0</td><td></td></tr><tr><td>7.6200</td><td>-12.9</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</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 (1855MHz)										3.7100	-7.4	V	3.0	40.5	1.0	-46.9	-13.0	-33.9		5.5650	-7.6	V	3.0	40.8	1.0	-47.4	-13.0	-34.4		7.4200	-16.4	V	3.0	40.8	1.0	-56.2	-13.0	-43.2		3.7100	-12.4	H	3.0	40.5	1.0	-51.9	-13.0	-38.9		5.5650	-6.7	H	3.0	40.8	1.0	-46.5	-13.0	-33.5		7.4200	-14.3	H	3.0	40.8	1.0	-54.1	-13.0	-41.1		Mid Channel (1880MHz)										3.7600	-5.5	V	3.0	40.5	1.0	-45.0	-13.0	-32.0		5.6400	-5.3	V	3.0	40.8	1.0	-45.1	-13.0	-32.1		7.5200	-15.1	V	3.0	40.7	1.0	-54.8	-13.0	-41.8		3.7600	-9.2	H	3.0	40.5	1.0	-48.7	-13.0	-35.7		5.6400	-1.1	H	3.0	40.8	1.0	-40.9	-13.0	-27.9		7.5200	-13.3	H	3.0	40.7	1.0	-53.0	-13.0	-40.0		High Channel (1905MHz)										3.8100	-4.7	V	3.0	40.6	1.0	-44.3	-13.0	-31.3		5.7150	-1.5	V	3.0	40.8	1.0	-41.3	-13.0	-28.3		7.6200	-15.5	V	3.0	40.7	1.0	-55.1	-13.0	-42.1		3.8100	-6.4	H	3.0	40.6	1.0	-46.0	-13.0	-33.0		5.7150	3.8	H	3.0	40.8	1.0	-36.0	-13.0	-23.0		7.6200	-12.9	H	3.0	40.7	1.0	-52.5	-13.0	-39.5	
f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																				
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7.4200	-16.4	V	3.0	40.8	1.0	-56.2	-13.0	-43.2																																																																																																																																																																																																																					
3.7100	-12.4	H	3.0	40.5	1.0	-51.9	-13.0	-38.9																																																																																																																																																																																																																					
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7.5200	-13.3	H	3.0	40.7	1.0	-53.0	-13.0	-40.0																																																																																																																																																																																																																					
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3.8100	-4.7	V	3.0	40.6	1.0	-44.3	-13.0	-31.3																																																																																																																																																																																																																					
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LTE
Band 2
3MHz
QPSK

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22866
Date: 03-08-16
Test Engineer: Steven Kim
Configuration: EUT / AC Adapter / Ear Phone / Z-Position
Mode: TX, LTE BAND 2, 3MHz BW,QPSK

ChamberPre-amplifierFilterLimit

Chamber 2AFS42Filter 1FCC Part 24

f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (1851.5MHz)									
3.7030	-6.9	V	3.0	40.5	1.0	-46.4	-13.0	-33.4	
5.5545	-6.1	V	3.0	40.8	1.0	-46.0	-13.0	-33.0	
7.4060	-15.7	V	3.0	40.8	1.0	-55.5	-13.0	-42.5	
3.7030	-13.5	H	3.0	40.5	1.0	-53.0	-13.0	-40.0	
5.5545	-4.7	H	3.0	40.8	1.0	-44.6	-13.0	-31.6	
7.4060	-13.8	H	3.0	40.8	1.0	-53.6	-13.0	-40.6	
Mid Channel (1880MHz)									
3.7600	-5.5	V	3.0	40.5	1.0	-45.1	-13.0	-32.1	
5.6400	-4.2	V	3.0	40.8	1.0	-44.0	-13.0	-31.0	
7.5200	-14.9	V	3.0	40.7	1.0	-54.6	-13.0	-41.6	
3.7600	-9.3	H	3.0	40.5	1.0	-48.8	-13.0	-35.8	
5.6400	-2.8	H	3.0	40.8	1.0	-42.6	-13.0	-29.6	
7.5200	-13.5	H	3.0	40.7	1.0	-53.2	-13.0	-40.2	
High Channel (1908.5MHz)									
3.8170	-0.1	V	3.0	40.6	1.0	-39.7	-13.0	-26.7	
5.7255	1.0	V	3.0	40.8	1.0	-38.8	-13.0	-25.8	
7.6340	-13.2	V	3.0	40.7	1.0	-52.9	-13.0	-39.9	
3.8170	-0.9	H	3.0	40.6	1.0	-40.5	-13.0	-27.5	
5.7255	6.7	H	3.0	40.8	1.0	-33.1	-13.0	-20.1	
7.6340	-12.9	H	3.0	40.7	1.0	-52.5	-13.0	-39.5	

Rev. 03.03.09
Note: No other emissions were detected above the system noise floor.

LTE
Band 2
3MHz
16QAM

UL Korea, Ltd Suwon Laboratory
Above 1GHz High Frequency Substitution Measurement

Company: Samsung
Project #: 16K22866
Date: 03-08-16
Test Engineer: Steven Kim
Configuration: EUT / AC Adapter / Ear Phone / Z-Position
Mode: TX, LTE BAND 2, 3MHz BW,16QAM

ChamberPre-amplifierFilterLimit

Chamber 2AFS42Filter 1FCC Part 24

f GHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (1851.5MHz)									
3.7030	-5.7	V	3.0	40.5	1.0	-45.2	-13.0	-32.2	
5.5545	-7.6	V	3.0	40.8	1.0	-47.4	-13.0	-34.4	
7.4060	-15.4	V	3.0	40.8	1.0	-55.2	-13.0	-42.2	
3.7030	-12.0	H	3.0	40.5	1.0	-51.5	-13.0	-38.5	
5.5545	-5.5	H	3.0	40.8	1.0	-45.3	-13.0	-32.3	
7.4060	-14.1	H	3.0	40.8	1.0	-53.8	-13.0	-40.8	
Mid Channel (1880MHz)									
3.7600	-6.4	V	3.0	40.5	1.0	-45.9	-13.0	-32.9	
5.6400	-5.2	V	3.0	40.8	1.0	-45.0	-13.0	-32.0	
7.5200	-15.2	V	3.0	40.7	1.0	-54.9	-13.0	-41.9	
3.7600	-7.7	H	3.0	40.5	1.0	-47.3	-13.0	-34.3	
5.6400	-3.6	H	3.0	40.8	1.0	-43.4	-13.0	-30.4	
7.5200	-14.1	H	3.0	40.7	1.0	-53.8	-13.0	-40.8	
High Channel (1908.5MHz)									
3.8170	-2.2	V	3.0	40.6	1.0	-41.8	-13.0	-28.8	
5.7255	-2.3	V	3.0	40.8	1.0	-42.1	-13.0	-29.1	
7.6340	-14.3	V	3.0	40.7	1.0	-54.0	-13.0	-41.0	
3.8170	-3.7	H	3.0	40.6	1.0	-43.3	-13.0	-30.3	
5.7255	4.8	H	3.0	40.8	1.0	-35.0	-13.0	-22.0	
7.6340	-14.1	H	3.0	40.7	1.0	-53.7	-13.0	-40.7	

Rev. 03.03.09
Note: No other emissions were detected above the system noise floor.

LTE

Band 2

1.4MHz

QPSK

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

FCC Part 24

f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (1850.7MHz)									
3.7014	-7.2	V	3.0	40.5	1.0	-46.6	-13.0	-33.6	
5.5521	-3.9	V	3.0	40.8	1.0	-43.7	-13.0	-30.7	
7.4028	-15.4	V	3.0	40.8	1.0	-55.2	-13.0	-42.2	
3.7014	-11.2	H	3.0	40.5	1.0	-50.7	-13.0	-37.7	
5.5521	-3.8	H	3.0	40.8	1.0	-43.6	-13.0	-30.6	
7.4028	-14.5	H	3.0	40.8	1.0	-54.3	-13.0	-41.3	
Mid Channel (1880MHz)									
3.7600	-3.4	V	3.0	40.5	1.0	-43.0	-13.0	-30.0	
5.6400	-2.2	V	3.0	40.8	1.0	-42.0	-13.0	-29.0	
7.5200	-14.8	V	3.0	40.7	1.0	-54.6	-13.0	-41.6	
3.7600	-8.2	H	3.0	40.5	1.0	-47.8	-13.0	-34.8	
5.6400	-2.4	H	3.0	40.8	1.0	-42.2	-13.0	-29.2	
7.5200	-13.8	H	3.0	40.7	1.0	-53.6	-13.0	-40.6	
High Channel (1909.3MHz)									
3.8186	1.0	V	3.0	40.6	1.0	-38.6	-13.0	-25.6	
5.7279	3.6	V	3.0	40.8	1.0	-36.2	-13.0	-23.2	
7.6372	-13.9	V	3.0	40.7	1.0	-53.5	-13.0	-40.5	
3.8186	-0.9	H	3.0	40.6	1.0	-40.5	-13.0	-27.5	
5.7279	7.9	H	3.0	40.8	1.0	-31.9	-13.0	-18.9	
7.6372	-12.7	H	3.0	40.7	1.0	-52.4	-13.0	-39.4	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

LTE

Band 2

1.4MHz

16QAM

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

FCC Part 24

f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Channel (1850.7MHz)									
3.7014	-8.1	V	3.0	40.5	1.0	-47.6	-13.0	-34.6	
5.5521	-5.8	V	3.0	40.8	1.0	-45.7	-13.0	-32.7	
7.4028	-15.7	V	3.0	40.8	1.0	-55.5	-13.0	-42.5	
3.7014	-12.6	H	3.0	40.5	1.0	-52.1	-13.0	-39.1	
5.5521	-5.8	H	3.0	40.8	1.0	-45.7	-13.0	-32.7	
7.4028	-14.8	H	3.0	40.8	1.0	-54.6	-13.0	-41.6	
Mid Channel (1880MHz)									
3.7600	-4.5	V	3.0	40.5	1.0	-44.0	-13.0	-31.0	
5.6400	-3.4	V	3.0	40.8	1.0	-43.2	-13.0	-30.2	
7.5200	-15.1	V	3.0	40.7	1.0	-54.8	-13.0	-41.8	
3.7600	-9.6	H	3.0	40.5	1.0	-49.1	-13.0	-36.1	
5.6400	-3.8	H	3.0	40.8	1.0	-43.6	-13.0	-30.6	
7.5200	-14.1	H	3.0	40.7	1.0	-53.9	-13.0	-40.9	
High Channel (1909.3MHz)									
3.8186	0.0	V	3.0	40.6	1.0	-39.6	-13.0	-26.6	
5.7279	0.4	V	3.0	40.8	1.0	-39.4	-13.0	-26.4	
7.6372	-14.9	V	3.0	40.7	1.0	-54.6	-13.0	-41.6	
3.8186	-2.1	H	3.0	40.6	1.0	-41.7	-13.0	-28.7	
5.7279	5.8	H	3.0	40.8	1.0	-34.0	-13.0	-21.0	
7.6372	-13.6	H	3.0	40.7	1.0	-53.3	-13.0	-40.3	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									