

		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 / Ear Phone / X-Position Mode: TX, LTE BAND 4, 15MHz BW,QPSK									
		Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27									
LTE Band 4 15MHz QPSK		f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Channel (1717.5MHz)									
		3.4350	-16.5	V	3.0	40.2	1.0	-55.7	-13.0	-42.7	
		5.1525	-5.8	V	3.0	40.9	1.0	-45.7	-13.0	-32.7	
		6.8700	3.9	V	3.0	41.0	1.0	-36.1	-13.0	-23.1	
		3.4350	-16.6	H	3.0	40.2	1.0	-55.8	-13.0	-42.8	
		5.1525	-3.2	H	3.0	40.9	1.0	-43.1	-13.0	-30.1	
		6.8700	1.4	H	3.0	41.0	1.0	-38.6	-13.0	-25.6	
		Mid Channel (1732.5MHz)									
		3.4650	-17.1	V	3.0	40.3	1.0	-56.3	-13.0	-43.3	
		5.1975	-1.9	V	3.0	40.9	1.0	-41.8	-13.0	-28.8	
		6.9300	5.1	V	3.0	41.0	1.0	-34.9	-13.0	-21.9	
		3.4650	-18.0	H	3.0	40.3	1.0	-57.3	-13.0	-44.3	
		5.1975	-1.5	H	3.0	40.9	1.0	-41.4	-13.0	-28.4	
		6.9300	4.2	H	3.0	41.0	1.0	-35.8	-13.0	-22.8	
		High Channel (1747.5MHz)									
		3.4950	-15.9	V	3.0	40.3	1.0	-55.2	-13.0	-42.2	
		5.2425	-1.8	V	3.0	40.9	1.0	-41.7	-13.0	-28.7	
		6.9900	3.2	V	3.0	41.0	1.0	-36.8	-13.0	-23.8	
		3.4950	-16.3	H	3.0	40.3	1.0	-55.6	-13.0	-42.6	
		5.2425	-1.7	H	3.0	40.9	1.0	-41.6	-13.0	-28.6	
		6.9900	3.5	H	3.0	41.0	1.0	-36.5	-13.0	-23.5	
		Rev. 03.03.09									
		Note: No other emissions were detected above the system noise floor.									
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		Chamber Chamber 2 Pre-amplifier AFS42 Filter Filter 1 Limit FCC Part 27									
LTE Band 4 15MHz 16QAM		f GHz	SGreading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	ERP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Channel (1717.5MHz)									
		3.4350	-18.0	V	3.0	40.2	1.0	-57.2	-13.0	-44.2	
		5.1525	-7.6	V	3.0	40.9	1.0	-47.4	-13.0	-34.4	
		6.8700	1.9	V	3.0	41.0	1.0	-38.1	-13.0	-25.1	
		3.4350	-17.6	H	3.0	40.2	1.0	-56.9	-13.0	-43.9	
		5.1525	-5.9	H	3.0	40.9	1.0	-45.8	-13.0	-32.8	
		6.8700	0.0	H	3.0	41.0	1.0	-40.0	-13.0	-27.0	
		Mid Channel (1732.5MHz)									
		3.4650	-18.1	V	3.0	40.3	1.0	-57.3	-13.0	-44.3	
		5.1975	-3.3	V	3.0	40.9	1.0	-43.2	-13.0	-30.2	
		6.9300	2.5	V	3.0	41.0	1.0	-37.5	-13.0	-24.5	
		3.4650	-18.4	H	3.0	40.3	1.0	-57.7	-13.0	-44.7	
		5.1975	-3.6	H	3.0	40.9	1.0	-43.5	-13.0	-30.5	
		6.9300	3.0	H	3.0	41.0	1.0	-37.0	-13.0	-24.0	
		High Channel (1747.5MHz)									
		3.4950	-17.8	V	3.0	40.3	1.0	-57.1	-13.0	-44.1	
		5.2425	-2.9	V	3.0	40.9	1.0	-42.7	-13.0	-29.7	
		6.9900	1.1	V	3.0	41.0	1.0	-38.9	-13.0	-25.9	
		3.4950	-16.2	H	3.0	40.3	1.0	-55.5	-13.0	-42.5	
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		Rev. 03.03.09									
		Note: No other emissions were detected above the system noise floor.									

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		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 / Ear Phone / X-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>-18.6</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-57.8</td><td>-13.0</td><td>-44.8</td><td></td></tr> <tr><td>5.1375</td><td>-7.7</td><td>V</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>6.5800</td><td>1.1</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-38.8</td><td>-13.0</td><td>-25.8</td><td></td></tr> <tr><td>3.4250</td><td>-17.6</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-56.8</td><td>-13.0</td><td>-43.8</td><td></td></tr> <tr><td>5.1375</td><td>-5.2</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-45.1</td><td>-13.0</td><td>-32.1</td><td></td></tr> <tr><td>6.5800</td><td>-0.9</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-40.8</td><td>-13.0</td><td>-27.8</td><td></td></tr> <tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr> <tr><td>3.4650</td><td>-18.1</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-57.4</td><td>-13.0</td><td>-44.4</td><td></td></tr> <tr><td>5.1975</td><td>-3.7</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-43.6</td><td>-13.0</td><td>-30.6</td><td></td></tr> <tr><td>6.9300</td><td>3.3</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-36.7</td><td>-13.0</td><td>-23.7</td><td></td></tr> <tr><td>3.4650</td><td>-19.0</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-58.2</td><td>-13.0</td><td>-45.2</td><td></td></tr> <tr><td>5.1975</td><td>-3.2</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-43.1</td><td>-13.0</td><td>-30.1</td><td></td></tr> <tr><td>6.9300</td><td>2.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-37.2</td><td>-13.0</td><td>-24.2</td><td></td></tr> <tr><td colspan="10">High Channel (1752.5MHz)</td></tr> <tr><td>3.5050</td><td>-17.9</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-57.2</td><td>-13.0</td><td>-44.2</td><td></td></tr> <tr><td>5.2575</td><td>-2.2</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-42.1</td><td>-13.0</td><td>-29.1</td><td></td></tr> <tr><td>7.0100</td><td>1.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-38.8</td><td>-13.0</td><td>-25.8</td><td></td></tr> <tr><td>3.5050</td><td>-17.0</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-56.3</td><td>-13.0</td><td>-43.3</td><td></td></tr> <tr><td>5.2575</td><td>-3.3</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-43.2</td><td>-13.0</td><td>-30.2</td><td></td></tr> <tr><td>7.0100</td><td>1.9</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-38.2</td><td>-13.0</td><td>-25.2</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	-18.6	V	3.0	40.2	1.0	-57.8	-13.0	-44.8		5.1375	-7.7	V	3.0	40.9	1.0	-47.6	-13.0	-34.6		6.5800	1.1	V	3.0	40.9	1.0	-38.8	-13.0	-25.8		3.4250	-17.6	H	3.0	40.2	1.0	-56.8	-13.0	-43.8		5.1375	-5.2	H	3.0	40.9	1.0	-45.1	-13.0	-32.1		6.5800	-0.9	H	3.0	40.9	1.0	-40.8	-13.0	-27.8		Mid Channel (1732.5MHz)										3.4650	-18.1	V	3.0	40.3	1.0	-57.4	-13.0	-44.4		5.1975	-3.7	V	3.0	40.9	1.0	-43.6	-13.0	-30.6		6.9300	3.3	V	3.0	41.0	1.0	-36.7	-13.0	-23.7		3.4650	-19.0	H	3.0	40.3	1.0	-58.2	-13.0	-45.2		5.1975	-3.2	H	3.0	40.9	1.0	-43.1	-13.0	-30.1		6.9300	2.8	H	3.0	41.0	1.0	-37.2	-13.0	-24.2		High Channel (1752.5MHz)										3.5050	-17.9	V	3.0	40.3	1.0	-57.2	-13.0	-44.2		5.2575	-2.2	V	3.0	40.9	1.0	-42.1	-13.0	-29.1		7.0100	1.2	V	3.0	41.0	1.0	-38.8	-13.0	-25.8		3.5050	-17.0	H	3.0	40.3	1.0	-56.3	-13.0	-43.3		5.2575	-3.3	H	3.0	40.9	1.0	-43.2	-13.0	-30.2		7.0100	1.9	H	3.0	41.0	1.0	-38.2	-13.0	-25.2	
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LTE

Band 4

1.4MHz

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 (1710.7MHz)									
3.4214	-16.0	V	3.0	40.2	1.0	-55.2	-13.0	-42.2	
5.1321	-4.7	V	3.0	40.9	1.0	-44.6	-13.0	-31.6	
6.8428	5.9	V	3.0	41.0	1.0	-34.1	-13.0	-21.1	
3.4214	-15.8	H	3.0	40.2	1.0	-55.0	-13.0	-42.0	
5.1321	-2.8	H	3.0	40.9	1.0	-42.7	-13.0	-29.7	
6.8428	2.9	H	3.0	41.0	1.0	-37.0	-13.0	-24.0	
Mid Channel (1732.5MHz)									
3.4650	-16.4	V	3.0	40.3	1.0	-55.7	-13.0	-42.7	
5.1975	-0.4	V	3.0	40.9	1.0	-40.3	-13.0	-27.3	
6.9300	5.5	V	3.0	41.0	1.0	-34.5	-13.0	-21.5	
3.4650	-16.6	H	3.0	40.3	1.0	-55.9	-13.0	-42.9	
5.1975	-0.6	H	3.0	40.9	1.0	-40.5	-13.0	-27.5	
6.9300	4.5	H	3.0	41.0	1.0	-35.5	-13.0	-22.5	
High Channel (1754.3MHz)									
3.5086	-16.1	V	3.0	40.3	1.0	-55.4	-13.0	-42.4	
5.2629	-0.8	V	3.0	40.9	1.0	-40.7	-13.0	-27.7	
7.0172	4.1	V	3.0	41.0	1.0	-36.0	-13.0	-23.0	
3.5086	-15.0	H	3.0	40.3	1.0	-54.3	-13.0	-41.3	
5.2629	-1.1	H	3.0	40.9	1.0	-41.0	-13.0	-28.0	
7.0172	3.9	H	3.0	41.0	1.0	-36.1	-13.0	-23.1	

Rev. 03.03.09

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

LTE

Band 4

1.4MHz

16QAM

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 (1710.7MHz)									
3.4214	-17.2	V	3.0	40.2	1.0	-56.4	-13.0	-43.4	
5.1321	-6.1	V	3.0	40.9	1.0	-46.0	-13.0	-33.0	
6.8428	4.3	V	3.0	41.0	1.0	-35.6	-13.0	-22.6	
3.4214	-17.5	H	3.0	40.2	1.0	-56.7	-13.0	-43.7	
5.1321	-4.2	H	3.0	40.9	1.0	-44.1	-13.0	-31.1	
6.8428	0.9	H	3.0	41.0	1.0	-39.1	-13.0	-26.1	
Mid Channel (1732.5MHz)									
3.4650	-17.7	V	3.0	40.3	1.0	-57.0	-13.0	-44.0	
5.1975	-1.6	V	3.0	40.9	1.0	-41.5	-13.0	-28.5	
6.9300	4.2	V	3.0	41.0	1.0	-35.8	-13.0	-22.8	
3.4650	-18.3	H	3.0	40.3	1.0	-57.5	-13.0	-44.5	
5.1975	-2.8	H	3.0	40.9	1.0	-42.7	-13.0	-29.7	
6.9300	3.2	H	3.0	41.0	1.0	-36.8	-13.0	-23.8	
High Channel (1754.3MHz)									
3.5086	-17.6	V	3.0	40.3	1.0	-56.9	-13.0	-43.9	
5.2629	-2.2	V	3.0	40.9	1.0	-42.1	-13.0	-29.1	
7.0172	1.9	V	3.0	41.0	1.0	-38.2	-13.0	-25.2	
3.5086	-16.3	H	3.0	40.3	1.0	-55.6	-13.0	-42.6	
5.2629	-2.6	H	3.0	40.9	1.0	-42.5	-13.0	-29.5	
7.0172	2.4	H	3.0	41.0	1.0	-37.6	-13.0	-24.6	

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																																																																																																																																																																																																																																			
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