

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

Company: Samsung
Project #: 16K23793
Date: 08-25-16
Test Engineer: YH Lim
Configuration: EUT / AC Adapter / Cradle / Z Position
Mode: TX LTE BAND 4, 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 (1715MHz)									
3.4300	-1.9	V	3.0	40.2	1.0	-41.1	-13.0	-28.1	
5.1450	-11.0	V	3.0	40.9	1.0	-50.9	-13.0	-37.9	
6.8600	-7.7	V	3.0	41.0	1.0	-47.7	-13.0	-34.7	
3.4300	-2.7	H	3.0	40.2	1.0	-42.0	-13.0	-29.0	
5.1450	-9.5	H	3.0	40.9	1.0	-49.4	-13.0	-36.4	
6.8600	-1.0	H	3.0	41.0	1.0	-40.9	-13.0	-27.9	
Mid Channel (1732.5MHz)									
3.4650	-6.6	V	3.0	40.3	1.0	-45.8	-13.0	-32.8	
5.1975	-16.4	V	3.0	40.9	1.0	-56.3	-13.0	-43.3	
6.9300	2.7	V	3.0	41.0	1.0	-37.3	-13.0	-24.3	
3.4650	-9.4	H	3.0	40.3	1.0	-48.7	-13.0	-35.7	
5.1975	-11.9	H	3.0	40.9	1.0	-51.8	-13.0	-38.8	
6.9300	5.9	H	3.0	41.0	1.0	-34.1	-13.0	-21.1	
High Channel (1750MHz)									
3.5000	-1.3	V	3.0	40.3	1.0	-40.6	-13.0	-27.6	
5.2500	-12.5	V	3.0	40.9	1.0	-52.4	-13.0	-39.4	
7.0000	0.2	V	3.0	41.0	1.0	-39.8	-13.0	-26.8	
3.5000	-2.1	H	3.0	40.3	1.0	-41.4	-13.0	-28.4	
5.2500	-12.4	H	3.0	40.9	1.0	-52.3	-13.0	-39.3	
7.0000	3.4	H	3.0	41.0	1.0	-36.6	-13.0	-23.6	

Rev. 03.03.09

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

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Mode: TX LTE BAND 4, 10MHz BW, 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 (1715MHz)									
3.4300	-2.2	V	3.0	40.2	1.0	-41.4	-13.0	-28.4	
5.1450	-11.2	V	3.0	40.9	1.0	-51.1	-13.0	-38.1	
6.8600	-8.6	V	3.0	41.0	1.0	-48.6	-13.0	-35.6	
3.4300	-3.1	H	3.0	40.2	1.0	-42.3	-13.0	-29.3	
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Mid Channel (1732.5MHz)									
3.4650	-7.2	V	3.0	40.3	1.0	-46.5	-13.0	-33.5	
5.1975	-17.4	V	3.0	40.9	1.0	-57.2	-13.0	-44.2	
6.9300	2.0	V	3.0	41.0	1.0	-38.0	-13.0	-25.0	
3.4650	-10.3	H	3.0	40.3	1.0	-49.6	-13.0	-36.6	
5.1975	-12.3	H	3.0	40.9	1.0	-52.2	-13.0	-39.2	
6.9300	4.1	H	3.0	41.0	1.0	-35.9	-13.0	-22.9	
High Channel (1750MHz)									
3.5000	-3.1	V	3.0	40.3	1.0	-42.4	-13.0	-29.4	
5.2500	-13.1	V	3.0	40.9	1.0	-53.0	-13.0	-40.0	
7.0000	-1.5	V	3.0	41.0	1.0	-41.5	-13.0	-28.5	
3.5000	-3.6	H	3.0	40.3	1.0	-42.8	-13.0	-29.8	
5.2500	-13.7	H	3.0	40.9	1.0	-53.6	-13.0	-40.6	
7.0000	0.5	H	3.0	41.0	1.0	-39.6	-13.0	-26.6	

Rev. 03.03.09

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

LTE Band 4 5MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project#: 16K23793 Date: 08-25-16 Test Engineer: Chan Park Configuration: EUT / AC Adapter / Cradle / Z Position Mode: TX, LTE BAND 4, 5MHz 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 (1712.5MHz)</td></tr><tr><td>3.4250</td><td>-2.3</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-41.5</td><td>-13.0</td><td>-28.5</td><td></td></tr><tr><td>5.1375</td><td>-7.0</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.9</td><td>-13.0</td><td>-33.9</td><td></td></tr><tr><td>6.8500</td><td>-2.8</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-42.8</td><td>-13.0</td><td>-29.8</td><td></td></tr><tr><td>3.4250</td><td>-2.4</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-41.6</td><td>-13.0</td><td>-28.6</td><td></td></tr><tr><td>5.1375</td><td>-6.9</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr><tr><td>6.8500</td><td>2.1</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-37.9</td><td>-13.0</td><td>-24.9</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-5.6</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-44.9</td><td>-13.0</td><td>-31.9</td><td></td></tr><tr><td>5.1975</td><td>-8.6</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>6.9300</td><td>6.2</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-33.8</td><td>-13.0</td><td>-20.8</td><td></td></tr><tr><td>3.4650</td><td>-9.6</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.8</td><td>-13.0</td><td>-35.8</td><td></td></tr><tr><td>5.1975</td><td>-9.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-49.0</td><td>-13.0</td><td>-36.0</td><td></td></tr><tr><td>6.9300</td><td>9.0</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-31.0</td><td>-13.0</td><td>-18.0</td><td></td></tr><tr><td colspan="10">High Channel (1752.5MHz)</td></tr><tr><td>3.5050</td><td>0.4</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-38.8</td><td>-13.0</td><td>-25.8</td><td></td></tr><tr><td>5.2575</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>7.0100</td><td>4.7</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-35.3</td><td>-13.0</td><td>-22.3</td><td></td></tr><tr><td>3.5050</td><td>-3.7</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-43.0</td><td>-13.0</td><td>-30.0</td><td></td></tr><tr><td>5.2575</td><td>-11.6</td><td>H</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>7.0100</td><td>6.5</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-33.5</td><td>-13.0</td><td>-20.5</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	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	-2.3	V	3.0	40.2	1.0	-41.5	-13.0	-28.5		5.1375	-7.0	V	3.0	40.9	1.0	-46.9	-13.0	-33.9		6.8500	-2.8	V	3.0	41.0	1.0	-42.8	-13.0	-29.8		3.4250	-2.4	H	3.0	40.2	1.0	-41.6	-13.0	-28.6		5.1375	-6.9	H	3.0	40.9	1.0	-46.7	-13.0	-33.7		6.8500	2.1	H	3.0	41.0	1.0	-37.9	-13.0	-24.9		Mid Channel (1732.5MHz)										3.4650	-5.6	V	3.0	40.3	1.0	-44.9	-13.0	-31.9		5.1975	-8.6	V	3.0	40.9	1.0	-48.5	-13.0	-35.5		6.9300	6.2	V	3.0	41.0	1.0	-33.8	-13.0	-20.8		3.4650	-9.6	H	3.0	40.3	1.0	-48.8	-13.0	-35.8		5.1975	-9.1	H	3.0	40.9	1.0	-49.0	-13.0	-36.0		6.9300	9.0	H	3.0	41.0	1.0	-31.0	-13.0	-18.0		High Channel (1752.5MHz)										3.5050	0.4	V	3.0	40.3	1.0	-38.8	-13.0	-25.8		5.2575	-12.4	V	3.0	40.9	1.0	-52.3	-13.0	-39.3		7.0100	4.7	V	3.0	41.0	1.0	-35.3	-13.0	-22.3		3.5050	-3.7	H	3.0	40.3	1.0	-43.0	-13.0	-30.0		5.2575	-11.6	H	3.0	40.9	1.0	-51.5	-13.0	-38.5		7.0100	6.5	H	3.0	41.0	1.0	-33.5	-13.0	-20.5		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									
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LTE Band 4 5MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project#: 16K23793 Date: 08-25-16 Test Engineer: Chan Park Configuration: EUT / AC Adapter / Cradle / Z Position Mode: TX, LTE BAND 7, 5MHz 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 (1712.5MHz)</td></tr><tr><td>3.4250</td><td>-1.6</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-40.8</td><td>-13.0</td><td>-27.8</td><td></td></tr><tr><td>5.1375</td><td>-6.9</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.8</td><td>-13.0</td><td>-33.8</td><td></td></tr><tr><td>6.8500</td><td>-2.5</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-42.4</td><td>-13.0</td><td>-29.4</td><td></td></tr><tr><td>3.4250</td><td>-2.5</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-41.7</td><td>-13.0</td><td>-28.7</td><td></td></tr><tr><td>5.1375</td><td>-6.7</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-46.6</td><td>-13.0</td><td>-33.6</td><td></td></tr><tr><td>6.8500</td><td>2.7</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">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>-48.0</td><td>-13.0</td><td>-35.0</td><td></td></tr><tr><td>5.1975</td><td>-10.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.2</td><td>-13.0</td><td>-37.2</td><td></td></tr><tr><td>6.9300</td><td>0.8</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-39.2</td><td>-13.0</td><td>-26.2</td><td></td></tr><tr><td>3.4650</td><td>-9.9</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-49.2</td><td>-13.0</td><td>-36.2</td><td></td></tr><tr><td>5.1975</td><td>-10.2</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.1</td><td>-13.0</td><td>-37.1</td><td></td></tr><tr><td>6.9300</td><td>4.6</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-35.4</td><td>-13.0</td><td>-22.4</td><td></td></tr><tr><td colspan="10">High Channel (1752.5MHz)</td></tr><tr><td>3.5050</td><td>0.0</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-39.3</td><td>-13.0</td><td>-26.3</td><td></td></tr><tr><td>5.2575</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>7.0100</td><td>5.6</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-34.4</td><td>-13.0</td><td>-21.4</td><td></td></tr><tr><td>3.5050</td><td>-4.0</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-43.3</td><td>-13.0</td><td>-30.3</td><td></td></tr><tr><td>5.2575</td><td>-11.9</td><td>H</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>7.0100</td><td>6.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-33.2</td><td>-13.0</td><td>-20.2</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	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	-1.6	V	3.0	40.2	1.0	-40.8	-13.0	-27.8		5.1375	-6.9	V	3.0	40.9	1.0	-46.8	-13.0	-33.8		6.8500	-2.5	V	3.0	41.0	1.0	-42.4	-13.0	-29.4		3.4250	-2.5	H	3.0	40.2	1.0	-41.7	-13.0	-28.7		5.1375	-6.7	H	3.0	40.9	1.0	-46.6	-13.0	-33.6		6.8500	2.7	H	3.0	41.0	1.0	-37.2	-13.0	-24.2		Mid Channel (1732.5MHz)										3.4650	-8.7	V	3.0	40.3	1.0	-48.0	-13.0	-35.0		5.1975	-10.4	V	3.0	40.9	1.0	-50.2	-13.0	-37.2		6.9300	0.8	V	3.0	41.0	1.0	-39.2	-13.0	-26.2		3.4650	-9.9	H	3.0	40.3	1.0	-49.2	-13.0	-36.2		5.1975	-10.2	H	3.0	40.9	1.0	-50.1	-13.0	-37.1		6.9300	4.6	H	3.0	41.0	1.0	-35.4	-13.0	-22.4		High Channel (1752.5MHz)										3.5050	0.0	V	3.0	40.3	1.0	-39.3	-13.0	-26.3		5.2575	-11.8	V	3.0	40.9	1.0	-51.7	-13.0	-38.7		7.0100	5.6	V	3.0	41.0	1.0	-34.4	-13.0	-21.4		3.5050	-4.0	H	3.0	40.3	1.0	-43.3	-13.0	-30.3		5.2575	-11.9	H	3.0	40.9	1.0	-51.7	-13.0	-38.7		7.0100	6.8	H	3.0	41.0	1.0	-33.2	-13.0	-20.2		Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									
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5.2605	-14.1	H	3.0	40.9	1.0	-53.9	-13.0	-40.9																																																																																																																																																																																																																					
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LTE Band 4 3MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K23793 Date: 08-25-16 Test Engineer: Chan Park Configuration: EUT / AC Adapter / Cradle / Z Position Mode: 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>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 (1711.5MHz)</td></tr><tr><td>3.4230</td><td>-4.4</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-43.6</td><td>-13.0</td><td>-30.6</td><td></td></tr><tr><td>5.1345</td><td>-5.9</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-45.8</td><td>-13.0</td><td>-32.8</td><td></td></tr><tr><td>6.8460</td><td>3.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-36.1</td><td>-13.0</td><td>-23.1</td><td></td></tr><tr><td>3.4230</td><td>-2.0</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-41.2</td><td>-13.0</td><td>-28.2</td><td></td></tr><tr><td>5.1345</td><td>-8.6</td><td>H</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>6.8460</td><td>8.4</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-31.6</td><td>-13.0</td><td>-18.6</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</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>5.1975</td><td>-14.9</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr><tr><td>6.9300</td><td>1.7</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-38.3</td><td>-13.0</td><td>-25.3</td><td></td></tr><tr><td>3.4650</td><td>-9.7</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.9</td><td>-13.0</td><td>-35.9</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>9.0</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-31.0</td><td>-13.0</td><td>-18.0</td><td></td></tr><tr><td colspan="10">High Channel (1752.5MHz)</td></tr><tr><td>3.5070</td><td>-3.0</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-42.3</td><td>-13.0</td><td>-29.3</td><td></td></tr><tr><td>5.2605</td><td>-14.6</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-54.5</td><td>-13.0</td><td>-41.5</td><td></td></tr><tr><td>7.0140</td><td>-4.9</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-44.9</td><td>-13.0</td><td>-31.9</td><td></td></tr><tr><td>3.5070</td><td>-2.4</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-41.7</td><td>-13.0</td><td>-28.7</td><td></td></tr><tr><td>5.2605</td><td>-15.1</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-55.0</td><td>-13.0</td><td>-42.0</td><td></td></tr><tr><td>7.0140</td><td>-6.9</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-46.9</td><td>-13.0</td><td>-33.9</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 (1711.5MHz)										3.4230	-4.4	V	3.0	40.2	1.0	-43.6	-13.0	-30.6		5.1345	-5.9	V	3.0	40.9	1.0	-45.8	-13.0	-32.8		6.8460	3.9	V	3.0	41.0	1.0	-36.1	-13.0	-23.1		3.4230	-2.0	H	3.0	40.2	1.0	-41.2	-13.0	-28.2		5.1345	-8.6	H	3.0	40.9	1.0	-48.5	-13.0	-35.5		6.8460	8.4	H	3.0	41.0	1.0	-31.6	-13.0	-18.6		Mid Channel (1732.5MHz)										3.4650	-6.9	V	3.0	40.3	1.0	-46.2	-13.0	-33.2		5.1975	-14.9	V	3.0	40.9	1.0	-54.8	-13.0	-41.8		6.9300	1.7	V	3.0	41.0	1.0	-38.3	-13.0	-25.3		3.4650	-9.7	H	3.0	40.3	1.0	-48.9	-13.0	-35.9		5.1975	-9.9	H	3.0	40.9	1.0	-49.8	-13.0	-36.8		6.9300	9.0	H	3.0	41.0	1.0	-31.0	-13.0	-18.0		High Channel (1752.5MHz)										3.5070	-3.0	V	3.0	40.3	1.0	-42.3	-13.0	-29.3		5.2605	-14.6	V	3.0	40.9	1.0	-54.5	-13.0	-41.5		7.0140	-4.9	V	3.0	41.0	1.0	-44.9	-13.0	-31.9		3.5070	-2.4	H	3.0	40.3	1.0	-41.7	-13.0	-28.7		5.2605	-15.1	H	3.0	40.9	1.0	-55.0	-13.0	-42.0		7.0140	-6.9	H	3.0	41.0	1.0	-46.9	-13.0	-33.9	
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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LTE Band 4 1.4MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K23793 Date: 08-24-16 Test Engineer: YH Lim Configuration: EUT / AC Adapter / Cradle / Z Position Mode: TX, LTE BAND 4, 1.4MHz 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 (1710.7MHz)</td></tr><tr><td>3.4214</td><td>-7.6</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-46.8</td><td>-13.0</td><td>-33.8</td><td></td></tr><tr><td>5.1321</td><td>-10.9</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr><tr><td>6.8428</td><td>-1.3</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-41.2</td><td>-13.0</td><td>-28.2</td><td></td></tr><tr><td>3.4214</td><td>-8.3</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-47.5</td><td>-13.0</td><td>-34.5</td><td></td></tr><tr><td>5.1321</td><td>-8.9</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.8</td><td>-13.0</td><td>-35.8</td><td></td></tr><tr><td>6.8428</td><td>5.9</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-34.1</td><td>-13.0</td><td>-21.1</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>-15.4</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr><tr><td>6.9300</td><td>-1.4</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-41.4</td><td>-13.0</td><td>-28.4</td><td></td></tr><tr><td>3.4650</td><td>-8.7</td><td>H</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>-11.2</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.1</td><td>-13.0</td><td>-38.1</td><td></td></tr><tr><td>6.9300</td><td>4.1</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-35.9</td><td>-13.0</td><td>-22.9</td><td></td></tr><tr><td colspan="10">High Channel (1754.3MHz)</td></tr><tr><td>3.5086</td><td>-3.2</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-42.5</td><td>-13.0</td><td>-29.5</td><td></td></tr><tr><td>5.2629</td><td>-14.8</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-54.7</td><td>-13.0</td><td>-41.7</td><td></td></tr><tr><td>7.0172</td><td>-0.6</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-40.6</td><td>-13.0</td><td>-27.6</td><td></td></tr><tr><td>3.5086</td><td>-1.1</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-40.4</td><td>-13.0</td><td>-27.4</td><td></td></tr><tr><td>5.2629</td><td>-11.4</td><td>H</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>7.0172</td><td>2.2</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-37.8</td><td>-13.0</td><td>-24.8</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 (1710.7MHz)										3.4214	-7.6	V	3.0	40.2	1.0	-46.8	-13.0	-33.8		5.1321	-10.9	V	3.0	40.9	1.0	-50.8	-13.0	-37.8		6.8428	-1.3	V	3.0	41.0	1.0	-41.2	-13.0	-28.2		3.4214	-8.3	H	3.0	40.2	1.0	-47.5	-13.0	-34.5		5.1321	-8.9	H	3.0	40.9	1.0	-48.8	-13.0	-35.8		6.8428	5.9	H	3.0	41.0	1.0	-34.1	-13.0	-21.1		Mid Channel (1732.5MHz)										3.4650	-8.8	V	3.0	40.3	1.0	-48.0	-13.0	-35.0		5.1975	-15.4	V	3.0	40.9	1.0	-55.3	-13.0	-42.3		6.9300	-1.4	V	3.0	41.0	1.0	-41.4	-13.0	-28.4		3.4650	-8.7	H	3.0	40.3	1.0	-48.0	-13.0	-35.0		5.1975	-11.2	H	3.0	40.9	1.0	-51.1	-13.0	-38.1		6.9300	4.1	H	3.0	41.0	1.0	-35.9	-13.0	-22.9		High Channel (1754.3MHz)										3.5086	-3.2	V	3.0	40.3	1.0	-42.5	-13.0	-29.5		5.2629	-14.8	V	3.0	40.9	1.0	-54.7	-13.0	-41.7		7.0172	-0.6	V	3.0	41.0	1.0	-40.6	-13.0	-27.6		3.5086	-1.1	H	3.0	40.3	1.0	-40.4	-13.0	-27.4		5.2629	-11.4	H	3.0	40.9	1.0	-51.2	-13.0	-38.2		7.0172	2.2	H	3.0	41.0	1.0	-37.8	-13.0	-24.8	
	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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5.2629	-11.4	H	3.0	40.9	1.0	-51.2	-13.0	-38.2																																																																																																																																																																																																																					
7.0172	2.2	H	3.0	41.0	1.0	-37.8	-13.0	-24.8																																																																																																																																																																																																																					
LTE Band 4 1.4MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K23793 Date: 08-24-16 Test Engineer: YH Lim Configuration: EUT / AC Adapter / Cradle / Z Position Mode: TX, LTE BAND 4, 1.4MHz 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 (1710.7MHz)</td></tr><tr><td>3.4214</td><td>-7.8</td><td>V</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-47.0</td><td>-13.0</td><td>-34.0</td><td></td></tr><tr><td>5.1321</td><td>-11.9</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-51.8</td><td>-13.0</td><td>-38.8</td><td></td></tr><tr><td>6.8428</td><td>-2.5</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-42.5</td><td>-13.0</td><td>-29.5</td><td></td></tr><tr><td>3.4214</td><td>-8.6</td><td>H</td><td>3.0</td><td>40.2</td><td>1.0</td><td>-47.8</td><td>-13.0</td><td>-34.8</td><td></td></tr><tr><td>5.1321</td><td>-9.0</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-48.9</td><td>-13.0</td><td>-35.9</td><td></td></tr><tr><td>6.8428</td><td>3.6</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-36.4</td><td>-13.0</td><td>-23.4</td><td></td></tr><tr><td colspan="10">Mid Channel (1732.5MHz)</td></tr><tr><td>3.4650</td><td>-8.9</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-48.1</td><td>-13.0</td><td>-35.1</td><td></td></tr><tr><td>5.1975</td><td>-15.5</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-55.3</td><td>-13.0</td><td>-42.3</td><td></td></tr><tr><td>6.9300</td><td>-2.6</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-42.6</td><td>-13.0</td><td>-29.6</td><td></td></tr><tr><td>3.4650</td><td>-8.4</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-47.6</td><td>-13.0</td><td>-34.6</td><td></td></tr><tr><td>5.1975</td><td>-12.8</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.7</td><td>-13.0</td><td>-39.7</td><td></td></tr><tr><td>6.9300</td><td>5.0</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-35.0</td><td>-13.0</td><td>-22.0</td><td></td></tr><tr><td colspan="10">High Channel (1754.3MHz)</td></tr><tr><td>3.5086</td><td>-4.0</td><td>V</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-43.3</td><td>-13.0</td><td>-30.3</td><td></td></tr><tr><td>5.2629</td><td>-15.3</td><td>V</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-55.1</td><td>-13.0</td><td>-42.1</td><td></td></tr><tr><td>7.0172</td><td>-1.3</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-41.3</td><td>-13.0</td><td>-28.3</td><td></td></tr><tr><td>3.5086</td><td>-2.1</td><td>H</td><td>3.0</td><td>40.3</td><td>1.0</td><td>-41.4</td><td>-13.0</td><td>-28.4</td><td></td></tr><tr><td>5.2629</td><td>-12.8</td><td>H</td><td>3.0</td><td>40.9</td><td>1.0</td><td>-52.6</td><td>-13.0</td><td>-39.6</td><td></td></tr><tr><td>7.0172</td><td>1.6</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-38.4</td><td>-13.0</td><td>-25.4</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 (1710.7MHz)										3.4214	-7.8	V	3.0	40.2	1.0	-47.0	-13.0	-34.0		5.1321	-11.9	V	3.0	40.9	1.0	-51.8	-13.0	-38.8		6.8428	-2.5	V	3.0	41.0	1.0	-42.5	-13.0	-29.5		3.4214	-8.6	H	3.0	40.2	1.0	-47.8	-13.0	-34.8		5.1321	-9.0	H	3.0	40.9	1.0	-48.9	-13.0	-35.9		6.8428	3.6	H	3.0	41.0	1.0	-36.4	-13.0	-23.4		Mid Channel (1732.5MHz)										3.4650	-8.9	V	3.0	40.3	1.0	-48.1	-13.0	-35.1		5.1975	-15.5	V	3.0	40.9	1.0	-55.3	-13.0	-42.3		6.9300	-2.6	V	3.0	41.0	1.0	-42.6	-13.0	-29.6		3.4650	-8.4	H	3.0	40.3	1.0	-47.6	-13.0	-34.6		5.1975	-12.8	H	3.0	40.9	1.0	-52.7	-13.0	-39.7		6.9300	5.0	H	3.0	41.0	1.0	-35.0	-13.0	-22.0		High Channel (1754.3MHz)										3.5086	-4.0	V	3.0	40.3	1.0	-43.3	-13.0	-30.3		5.2629	-15.3	V	3.0	40.9	1.0	-55.1	-13.0	-42.1		7.0172	-1.3	V	3.0	41.0	1.0	-41.3	-13.0	-28.3		3.5086	-2.1	H	3.0	40.3	1.0	-41.4	-13.0	-28.4		5.2629	-12.8	H	3.0	40.9	1.0	-52.6	-13.0	-39.6		7.0172	1.6	H	3.0	41.0	1.0	-38.4	-13.0	-25.4	
	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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High Channel (1754.3MHz)																																																																																																																																																																																																																													
3.5086	-4.0	V	3.0	40.3	1.0	-43.3	-13.0	-30.3																																																																																																																																																																																																																					
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7.0172	-1.3	V	3.0	41.0	1.0	-41.3	-13.0	-28.3																																																																																																																																																																																																																					
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7.0172	1.6	H	3.0	41.0	1.0	-38.4	-13.0	-25.4																																																																																																																																																																																																																					

LTE Band 2

LTE
Band 2
20MHz
QPSK

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

Company: Samsung
Project #: 16K23793
Date: 08-24-16
Test Engineer: YH Lim
Configuration: EUT / AC Adapter / Cradle / Z Position
Mode: TX, LTE BAND 2, 20MHz BW, QPSK

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

FCC 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 (1860MHz)									
3.7200	-14.4	V	3.0	40.5	1.0	-53.9	-13.0	-40.9	
5.5800	-16.6	V	3.0	40.8	1.0	-56.4	-13.0	-43.4	
7.4400	-13.1	V	3.0	40.8	1.0	-52.9	-13.0	-39.9	
3.7200	-11.5	H	3.0	40.5	1.0	-51.0	-13.0	-38.0	
5.5800	-17.8	H	3.0	40.8	1.0	-57.6	-13.0	-44.6	
7.4400	-10.1	H	3.0	40.8	1.0	-49.8	-13.0	-36.8	
Mid Channel (1880MHz)									
3.7600	-14.6	V	3.0	40.5	1.0	-54.2	-13.0	-41.2	
5.6400	-17.4	V	3.0	40.8	1.0	-57.2	-13.0	-44.2	
7.5200	-11.2	V	3.0	40.7	1.0	-50.9	-13.0	-37.9	
3.7600	-12.4	H	3.0	40.5	1.0	-51.9	-13.0	-38.9	
5.6400	-18.1	H	3.0	40.8	1.0	-57.9	-13.0	-44.9	
7.5200	-7.0	H	3.0	40.7	1.0	-46.7	-13.0	-33.7	
High Channel (1900MHz)									
3.8000	-13.8	V	3.0	40.6	1.0	-53.4	-13.0	-40.4	
5.7000	-14.5	V	3.0	40.8	1.0	-54.3	-13.0	-41.3	
7.6000	-13.1	V	3.0	40.7	1.0	-52.8	-13.0	-39.8	
3.8000	-11.8	H	3.0	40.6	1.0	-51.4	-13.0	-38.4	
5.7000	-14.6	H	3.0	40.8	1.0	-54.4	-13.0	-41.4	
7.6000	-11.8	H	3.0	40.7	1.0	-51.5	-13.0	-38.5	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

LTE
Band 2
20MHz
16QAM

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

Company: Samsung
Project #: 16K23793
Date: 08-24-16
Test Engineer: YH Lim
Configuration: EUT / AC Adapter / Cradle / Z Position
Mode: TX, LTE BAND 2, 20MHz BW, 16QAM

Chamber

Chamber 2

Pre-amplifier

AFS42

Filter

Filter 1

Limit

FCC 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 (1860MHz)									
3.7200	-15.0	V	3.0	40.5	1.0	-54.5	-13.0	-41.5	
5.5800	-17.0	V	3.0	40.8	1.0	-56.8	-13.0	-43.8	
7.4400	-13.8	V	3.0	40.8	1.0	-53.6	-13.0	-40.6	
3.7200	-11.7	H	3.0	40.5	1.0	-51.2	-13.0	-38.2	
5.5800	-17.8	H	3.0	40.8	1.0	-57.6	-13.0	-44.6	
7.4400	-11.2	H	3.0	40.8	1.0	-51.0	-13.0	-38.0	
Mid Channel (1880MHz)									
3.7600	-15.8	V	3.0	40.5	1.0	-55.4	-13.0	-42.4	
5.6400	-16.3	V	3.0	40.8	1.0	-56.1	-13.0	-43.1	
7.5200	-12.3	V	3.0	40.7	1.0	-52.0	-13.0	-39.0	
3.7600	-13.0	H	3.0	40.5	1.0	-52.5	-13.0	-39.5	
5.6400	-19.2	H	3.0	40.8	1.0	-59.0	-13.0	-46.0	
7.5200	-8.5	H	3.0	40.7	1.0	-48.3	-13.0	-35.3	
High Channel (1900MHz)									
3.8000	-14.3	V	3.0	40.6	1.0	-53.8	-13.0	-40.8	
5.7000	-14.7	V	3.0	40.8	1.0	-54.4	-13.0	-41.4	
7.6000	-13.7	V	3.0	40.7	1.0	-53.4	-13.0	-40.4	
3.8000	-11.8	H	3.0	40.6	1.0	-51.4	-13.0	-38.4	
5.7000	-14.8	H	3.0	40.8	1.0	-54.6	-13.0	-41.6	
7.6000	-11.4	H	3.0	40.7	1.0	-51.1	-13.0	-38.1	
Rev. 03.03.09 Note: No other emissions were detected above the system noise floor.									

LTE

Band 2

15MHz

QPSK

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 16K23793

Date: 08-24-16

Test Engineer: YH Lim

Configuration: EUT / AC Adapter / Cradle / Z Position

Mode: TX LTE BAND 2, 15MHz BW, 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 (1857.5MHz)									
3.7150	-13.1	V	3.0	40.5	1.0	-52.6	-13.0	-39.6	
5.5725	-17.7	V	3.0	40.8	1.0	-57.5	-13.0	-44.5	
7.4300	-10.5	V	3.0	40.8	1.0	-50.3	-13.0	-37.3	
3.7150	-11.6	H	3.0	40.5	1.0	-51.1	-13.0	-38.1	
5.5725	-20.1	H	3.0	40.8	1.0	-59.9	-13.0	-46.9	
7.4300	-10.7	H	3.0	40.8	1.0	-50.4	-13.0	-37.4	
Mid Channel (1880MHz)									
3.7600	-15.3	V	3.0	40.5	1.0	-54.9	-13.0	-41.9	
5.6400	-17.5	V	3.0	40.8	1.0	-57.3	-13.0	-44.3	
7.5200	-11.6	V	3.0	40.7	1.0	-51.3	-13.0	-38.3	
3.7600	-10.5	H	3.0	40.5	1.0	-50.0	-13.0	-37.0	
5.6400	-18.9	H	3.0	40.8	1.0	-58.7	-13.0	-45.7	
7.5200	-9.0	H	3.0	40.7	1.0	-48.7	-13.0	-35.7	
High Channel (1902.5MHz)									
3.8050	-13.3	V	3.0	40.6	1.0	-52.9	-13.0	-39.9	
5.7075	-16.8	V	3.0	40.8	1.0	-56.6	-13.0	-43.6	
7.6100	-10.2	V	3.0	40.7	1.0	-49.9	-13.0	-36.9	
3.8050	-11.7	H	3.0	40.6	1.0	-51.3	-13.0	-38.3	
5.7075	-19.4	H	3.0	40.8	1.0	-59.2	-13.0	-46.2	
7.6100	-8.6	H	3.0	40.7	1.0	-48.3	-13.0	-35.3	

Rev. 03.03.09

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

LTE

Band 2

15MHz

16QAM

UL Korea, Ltd Suwon Laboratory

Above 1GHz High Frequency Substitution Measurement

Company: Samsung

Project #: 16K23793

Date: 08-24-16

Test Engineer: YH Lim

Configuration: EUT / AC Adapter / Cradle / Z Position

Mode: TX LTE BAND 2, 15MHz BW, 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 (1857.5MHz)									
3.7150	-12.9	V	3.0	40.5	1.0	-52.4	-13.0	-39.4	
5.5725	-18.2	V	3.0	40.8	1.0	-58.0	-13.0	-45.0	
7.4300	-10.8	V	3.0	40.8	1.0	-50.6	-13.0	-37.6	
3.7150	-12.0	H	3.0	40.5	1.0	-51.5	-13.0	-38.5	
5.5725	-20.2	H	3.0	40.8	1.0	-60.0	-13.0	-47.0	
7.4300	-10.4	H	3.0	40.8	1.0	-50.2	-13.0	-37.2	
Mid Channel (1880MHz)									
3.7600	-16.6	V	3.0	40.5	1.0	-56.1	-13.0	-43.1	
5.6400	-17.7	V	3.0	40.8	1.0	-57.5	-13.0	-44.5	
7.5200	-13.2	V	3.0	40.7	1.0	-52.9	-13.0	-39.9	
3.7600	-10.8	H	3.0	40.5	1.0	-50.3	-13.0	-37.3	
5.6400	-19.1	H	3.0	40.8	1.0	-58.9	-13.0	-45.9	
7.5200	-9.1	H	3.0	40.7	1.0	-48.9	-13.0	-35.9	
High Channel (1902.5MHz)									
3.8050	-14.2	V	3.0	40.6	1.0	-53.8	-13.0	-40.8	
5.7075	-18.2	V	3.0	40.8	1.0	-58.0	-13.0	-45.0	
7.6100	-11.6	V	3.0	40.7	1.0	-51.3	-13.0	-38.3	
3.8050	-12.0	H	3.0	40.6	1.0	-51.6	-13.0	-38.6	
5.7075	-19.9	H	3.0	40.8	1.0	-59.7	-13.0	-46.7	
7.6100	-9.0	H	3.0	40.7	1.0	-48.7	-13.0	-35.7	

Rev. 03.03.09

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

LTE Band 2 10MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K23793 Date: 08-24-16 Test Engineer: YH Lim Configuration: EUT / AC Adapter / Cradle / Z Position Mode: TX, LTE BAND 2, 10MHz 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 (1855MHz)</td></tr><tr><td>3.7100</td><td>-13.4</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-52.9</td><td>-13.0</td><td>-39.9</td><td></td></tr><tr><td>5.5650</td><td>-14.0</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.8</td><td>-13.0</td><td>-40.8</td><td></td></tr><tr><td>7.4200</td><td>-7.9</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-47.7</td><td>-13.0</td><td>-34.7</td><td></td></tr><tr><td>3.7100</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>5.5650</td><td>-20.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-59.8</td><td>-13.0</td><td>-46.8</td><td></td></tr><tr><td>7.4200</td><td>-5.4</td><td>H</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 colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-11.8</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-51.3</td><td>-13.0</td><td>-38.3</td><td></td></tr><tr><td>5.6400</td><td>-15.8</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-55.6</td><td>-13.0</td><td>-42.6</td><td></td></tr><tr><td>7.5200</td><td>-5.7</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-45.4</td><td>-13.0</td><td>-32.4</td><td></td></tr><tr><td>3.7600</td><td>-11.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-50.7</td><td>-13.0</td><td>-37.7</td><td></td></tr><tr><td>5.6400</td><td>-18.2</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-58.0</td><td>-13.0</td><td>-45.0</td><td></td></tr><tr><td>7.5200</td><td>-4.7</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-44.4</td><td>-13.0</td><td>-31.4</td><td></td></tr><tr><td colspan="10">High Channel (1905MHz)</td></tr><tr><td>3.8100</td><td>-12.4</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr><tr><td>5.7150</td><td>-12.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-52.3</td><td>-13.0</td><td>-39.3</td><td></td></tr><tr><td>7.6200</td><td>-7.3</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-47.0</td><td>-13.0</td><td>-34.0</td><td></td></tr><tr><td>3.8100</td><td>-13.7</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-53.3</td><td>-13.0</td><td>-40.3</td><td></td></tr><tr><td>5.7150</td><td>-17.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-56.9</td><td>-13.0</td><td>-43.9</td><td></td></tr><tr><td>7.6200</td><td>-8.1</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-47.7</td><td>-13.0</td><td>-34.7</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 (1855MHz)										3.7100	-13.4	V	3.0	40.5	1.0	-52.9	-13.0	-39.9		5.5650	-14.0	V	3.0	40.8	1.0	-53.8	-13.0	-40.8		7.4200	-7.9	V	3.0	40.8	1.0	-47.7	-13.0	-34.7		3.7100	-11.9	H	3.0	40.5	1.0	-51.4	-13.0	-38.4		5.5650	-20.0	H	3.0	40.8	1.0	-59.8	-13.0	-46.8		7.4200	-5.4	H	3.0	40.8	1.0	-45.1	-13.0	-32.1		Mid Channel (1880MHz)										3.7600	-11.8	V	3.0	40.5	1.0	-51.3	-13.0	-38.3		5.6400	-15.8	V	3.0	40.8	1.0	-55.6	-13.0	-42.6		7.5200	-5.7	V	3.0	40.7	1.0	-45.4	-13.0	-32.4		3.7600	-11.2	H	3.0	40.5	1.0	-50.7	-13.0	-37.7		5.6400	-18.2	H	3.0	40.8	1.0	-58.0	-13.0	-45.0		7.5200	-4.7	H	3.0	40.7	1.0	-44.4	-13.0	-31.4		High Channel (1905MHz)										3.8100	-12.4	V	3.0	40.6	1.0	-52.0	-13.0	-39.0		5.7150	-12.5	V	3.0	40.8	1.0	-52.3	-13.0	-39.3		7.6200	-7.3	V	3.0	40.7	1.0	-47.0	-13.0	-34.0		3.8100	-13.7	H	3.0	40.6	1.0	-53.3	-13.0	-40.3		5.7150	-17.1	H	3.0	40.8	1.0	-56.9	-13.0	-43.9		7.6200	-8.1	H	3.0	40.7	1.0	-47.7	-13.0	-34.7		Rev. 03.03.09										Note: No other emissions were detected above the system noise floor.									
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LTE Band 2 5MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K23793 Date: 08-24-16 Test Engineer: Chan Park Configuration: EUT / AC Adapter / Cradle / Z Position Mode: TX, LTE BAND 2, 5MHz 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 (1852.5MHz)</td></tr><tr><td>3.7050</td><td>-13.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-52.4</td><td>-13.0</td><td>-39.4</td><td></td></tr><tr><td>5.5575</td><td>-15.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.9</td><td>-13.0</td><td>-41.9</td><td></td></tr><tr><td>7.4100</td><td>-2.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-42.5</td><td>-13.0</td><td>-29.5</td><td></td></tr><tr><td>3.7050</td><td>-9.4</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-48.9</td><td>-13.0</td><td>-35.9</td><td></td></tr><tr><td>5.5575</td><td>-16.1</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-56.0</td><td>-13.0</td><td>-43.0</td><td></td></tr><tr><td>7.4100</td><td>-2.7</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-42.4</td><td>-13.0</td><td>-29.4</td><td></td></tr><tr><td colspan="10">Mid Channel (1880MHz)</td></tr><tr><td>3.7600</td><td>-14.1</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr><tr><td>5.6400</td><td>-14.2</td><td>V</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>7.5200</td><td>-7.0</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr><tr><td>3.7600</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>5.6400</td><td>-15.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.8</td><td>-13.0</td><td>-41.8</td><td></td></tr><tr><td>7.5200</td><td>-2.4</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-42.1</td><td>-13.0</td><td>-29.1</td><td></td></tr><tr><td colspan="10">High Channel (1907.5MHz)</td></tr><tr><td>3.8150</td><td>-14.2</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-53.7</td><td>-13.0</td><td>-40.7</td><td></td></tr><tr><td>5.7225</td><td>-16.7</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-56.5</td><td>-13.0</td><td>-43.5</td><td></td></tr><tr><td>7.6300</td><td>-10.0</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-49.7</td><td>-13.0</td><td>-36.7</td><td></td></tr><tr><td>3.8150</td><td>-10.6</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-50.2</td><td>-13.0</td><td>-37.2</td><td></td></tr><tr><td>5.7225</td><td>-18.4</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-58.1</td><td>-13.0</td><td>-45.1</td><td></td></tr><tr><td>7.6300</td><td>-8.5</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-48.2</td><td>-13.0</td><td>-35.2</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 (1852.5MHz)										3.7050	-13.0	V	3.0	40.5	1.0	-52.4	-13.0	-39.4		5.5575	-15.1	V	3.0	40.8	1.0	-54.9	-13.0	-41.9		7.4100	-2.7	V	3.0	40.8	1.0	-42.5	-13.0	-29.5		3.7050	-9.4	H	3.0	40.5	1.0	-48.9	-13.0	-35.9		5.5575	-16.1	H	3.0	40.8	1.0	-56.0	-13.0	-43.0		7.4100	-2.7	H	3.0	40.8	1.0	-42.4	-13.0	-29.4		Mid Channel (1880MHz)										3.7600	-14.1	V	3.0	40.5	1.0	-53.6	-13.0	-40.6		5.6400	-14.2	V	3.0	40.8	1.0	-54.0	-13.0	-41.0		7.5200	-7.0	V	3.0	40.7	1.0	-46.7	-13.0	-33.7		3.7600	-11.6	H	3.0	40.5	1.0	-51.1	-13.0	-38.1		5.6400	-15.0	H	3.0	40.8	1.0	-54.8	-13.0	-41.8		7.5200	-2.4	H	3.0	40.7	1.0	-42.1	-13.0	-29.1		High Channel (1907.5MHz)										3.8150	-14.2	V	3.0	40.6	1.0	-53.7	-13.0	-40.7		5.7225	-16.7	V	3.0	40.8	1.0	-56.5	-13.0	-43.5		7.6300	-10.0	V	3.0	40.7	1.0	-49.7	-13.0	-36.7		3.8150	-10.6	H	3.0	40.6	1.0	-50.2	-13.0	-37.2		5.7225	-18.4	H	3.0	40.8	1.0	-58.1	-13.0	-45.1		7.6300	-8.5	H	3.0	40.7	1.0	-48.2	-13.0	-35.2	
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LTE Band 2 3MHz QPSK	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K23793 Date: 08-24-16 Test Engineer: Chan Park Configuration: EUT / AC Adapter / Cradle / Z Position Mode: TX, LTE BAND 2, 3MHz BW,QPSK Chamber Pre-amplifier Filter Limit Chamber 2 AFS42 Filter 1 FCC 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 (1851.5MHz)</td></tr> <tr><td>3.7030</td><td>-11.6</td><td>V</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>5.5545</td><td>-10.5</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.3</td><td>-13.0</td><td>-37.3</td><td></td></tr> <tr><td>7.4060</td><td>-6.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-45.8</td><td>-13.0</td><td>-32.8</td><td></td></tr> <tr><td>3.7030</td><td>-9.8</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-49.3</td><td>-13.0</td><td>-36.3</td><td></td></tr> <tr><td>5.5545</td><td>-16.8</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-56.6</td><td>-13.0</td><td>-43.6</td><td></td></tr> <tr><td>7.4060</td><td>-2.6</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-42.4</td><td>-13.0</td><td>-29.4</td><td></td></tr> <tr><td colspan="10">Mid Channel (1880MHz)</td></tr> <tr><td>3.7600</td><td>-13.5</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-53.0</td><td>-13.0</td><td>-40.0</td><td></td></tr> <tr><td>5.6400</td><td>-14.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.9</td><td>-13.0</td><td>-40.9</td><td></td></tr> <tr><td>7.5200</td><td>-6.4</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-46.1</td><td>-13.0</td><td>-33.1</td><td></td></tr> <tr><td>3.7600</td><td>-10.8</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-50.3</td><td>-13.0</td><td>-37.3</td><td></td></tr> <tr><td>5.6400</td><td>-17.6</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-57.4</td><td>-13.0</td><td>-44.4</td><td></td></tr> <tr><td>7.5200</td><td>-5.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-45.0</td><td>-13.0</td><td>-32.0</td><td></td></tr> <tr><td colspan="10">High Channel (1908.5MHz)</td></tr> <tr><td>3.8170</td><td>-10.9</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-50.5</td><td>-13.0</td><td>-37.5</td><td></td></tr> <tr><td>5.7255</td><td>-13.8</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td>7.6340</td><td>-5.0</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-44.7</td><td>-13.0</td><td>-31.7</td><td></td></tr> <tr><td>3.8170</td><td>-8.3</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-47.9</td><td>-13.0</td><td>-34.9</td><td></td></tr> <tr><td>5.7255</td><td>-14.8</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.6</td><td>-13.0</td><td>-41.6</td><td></td></tr> <tr><td>7.6340</td><td>-4.8</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-44.5</td><td>-13.0</td><td>-31.5</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 (1851.5MHz)										3.7030	-11.6	V	3.0	40.5	1.0	-51.1	-13.0	-38.1		5.5545	-10.5	V	3.0	40.8	1.0	-50.3	-13.0	-37.3		7.4060	-6.1	V	3.0	40.8	1.0	-45.8	-13.0	-32.8		3.7030	-9.8	H	3.0	40.5	1.0	-49.3	-13.0	-36.3		5.5545	-16.8	H	3.0	40.8	1.0	-56.6	-13.0	-43.6		7.4060	-2.6	H	3.0	40.8	1.0	-42.4	-13.0	-29.4		Mid Channel (1880MHz)										3.7600	-13.5	V	3.0	40.5	1.0	-53.0	-13.0	-40.0		5.6400	-14.1	V	3.0	40.8	1.0	-53.9	-13.0	-40.9		7.5200	-6.4	V	3.0	40.7	1.0	-46.1	-13.0	-33.1		3.7600	-10.8	H	3.0	40.5	1.0	-50.3	-13.0	-37.3		5.6400	-17.6	H	3.0	40.8	1.0	-57.4	-13.0	-44.4		7.5200	-5.3	H	3.0	40.7	1.0	-45.0	-13.0	-32.0		High Channel (1908.5MHz)										3.8170	-10.9	V	3.0	40.6	1.0	-50.5	-13.0	-37.5		5.7255	-13.8	V	3.0	40.8	1.0	-53.6	-13.0	-40.6		7.6340	-5.0	V	3.0	40.7	1.0	-44.7	-13.0	-31.7		3.8170	-8.3	H	3.0	40.6	1.0	-47.9	-13.0	-34.9		5.7255	-14.8	H	3.0	40.8	1.0	-54.6	-13.0	-41.6		7.6340	-4.8	H	3.0	40.7	1.0	-44.5	-13.0	-31.5		Rev. 03.03.09										Note: No other emissions were detected above the system noise floor.									
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LTE Band 2 3MHz 16QAM	UL Korea, Ltd Suwon Laboratory Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 16K23793 Date: 08-24-16 Test Engineer: Chan Park Configuration: EUT / AC Adapter / Cradle / Z Position Mode: TX, LTE BAND 2, 3MHz BW,16QAM Chamber Pre-amplifier Filter Limit Chamber 2 AFS42 Filter 1 FCC 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 (1851.5MHz)</td></tr> <tr><td>3.703</td><td>-11.2</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-50.7</td><td>-13.0</td><td>-37.7</td><td></td></tr> <tr><td>5.555</td><td>-11.1</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-50.9</td><td>-13.0</td><td>-37.9</td><td></td></tr> <tr><td>7.406</td><td>-5.8</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-45.6</td><td>-13.0</td><td>-32.6</td><td></td></tr> <tr><td>3.703</td><td>-13.7</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-53.2</td><td>-13.0</td><td>-40.2</td><td></td></tr> <tr><td>5.555</td><td>-17.0</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-56.8</td><td>-13.0</td><td>-43.8</td><td></td></tr> <tr><td>7.406</td><td>-6.6</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-46.4</td><td>-13.0</td><td>-33.4</td><td></td></tr> <tr><td colspan="10">Mid Channel (1880MHz)</td></tr> <tr><td>3.760</td><td>-14.0</td><td>V</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td>5.640</td><td>-13.8</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr> <tr><td>7.520</td><td>-7.2</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-46.9</td><td>-13.0</td><td>-33.9</td><td></td></tr> <tr><td>3.760</td><td>-11.2</td><td>H</td><td>3.0</td><td>40.5</td><td>1.0</td><td>-50.8</td><td>-13.0</td><td>-37.8</td><td></td></tr> <tr><td>5.640</td><td>-18.2</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-58.0</td><td>-13.0</td><td>-45.0</td><td></td></tr> <tr><td>7.520</td><td>-5.4</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-45.2</td><td>-13.0</td><td>-32.2</td><td></td></tr> <tr><td colspan="10">High Channel (1908.5MHz)</td></tr> <tr><td>3.817</td><td>-12.2</td><td>V</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-51.8</td><td>-13.0</td><td>-38.8</td><td></td></tr> <tr><td>5.726</td><td>-14.9</td><td>V</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-54.7</td><td>-13.0</td><td>-41.7</td><td></td></tr> <tr><td>7.634</td><td>-6.5</td><td>V</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-46.2</td><td>-13.0</td><td>-33.2</td><td></td></tr> <tr><td>3.817</td><td>-9.4</td><td>H</td><td>3.0</td><td>40.6</td><td>1.0</td><td>-49.0</td><td>-13.0</td><td>-36.0</td><td></td></tr> <tr><td>5.726</td><td>-16.8</td><td>H</td><td>3.0</td><td>40.8</td><td>1.0</td><td>-56.5</td><td>-13.0</td><td>-43.5</td><td></td></tr> <tr><td>7.634</td><td>-7.3</td><td>H</td><td>3.0</td><td>40.7</td><td>1.0</td><td>-46.9</td><td>-13.0</td><td>-33.9</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 (1851.5MHz)										3.703	-11.2	V	3.0	40.5	1.0	-50.7	-13.0	-37.7		5.555	-11.1	V	3.0	40.8	1.0	-50.9	-13.0	-37.9		7.406	-5.8	V	3.0	40.8	1.0	-45.6	-13.0	-32.6		3.703	-13.7	H	3.0	40.5	1.0	-53.2	-13.0	-40.2		5.555	-17.0	H	3.0	40.8	1.0	-56.8	-13.0	-43.8		7.406	-6.6	H	3.0	40.8	1.0	-46.4	-13.0	-33.4		Mid Channel (1880MHz)										3.760	-14.0	V	3.0	40.5	1.0	-53.6	-13.0	-40.6		5.640	-13.8	V	3.0	40.8	1.0	-53.6	-13.0	-40.6		7.520	-7.2	V	3.0	40.7	1.0	-46.9	-13.0	-33.9		3.760	-11.2	H	3.0	40.5	1.0	-50.8	-13.0	-37.8		5.640	-18.2	H	3.0	40.8	1.0	-58.0	-13.0	-45.0		7.520	-5.4	H	3.0	40.7	1.0	-45.2	-13.0	-32.2		High Channel (1908.5MHz)										3.817	-12.2	V	3.0	40.6	1.0	-51.8	-13.0	-38.8		5.726	-14.9	V	3.0	40.8	1.0	-54.7	-13.0	-41.7		7.634	-6.5	V	3.0	40.7	1.0	-46.2	-13.0	-33.2		3.817	-9.4	H	3.0	40.6	1.0	-49.0	-13.0	-36.0		5.726	-16.8	H	3.0	40.8	1.0	-56.5	-13.0	-43.5		7.634	-7.3	H	3.0	40.7	1.0	-46.9	-13.0	-33.9		Rev. 03.03.09										Note: No other emissions were detected above the system noise floor.									
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7.634	-6.5	V	3.0	40.7	1.0	-46.2	-13.0	-33.2																																																																																																																																																																																																																																									
3.817	-9.4	H	3.0	40.6	1.0	-49.0	-13.0	-36.0																																																																																																																																																																																																																																									
5.726	-16.8	H	3.0	40.8	1.0	-56.5	-13.0	-43.5																																																																																																																																																																																																																																									
7.634	-7.3	H	3.0	40.7	1.0	-46.9	-13.0	-33.9																																																																																																																																																																																																																																									
Rev. 03.03.09																																																																																																																																																																																																																																																	
Note: No other emissions were detected above the system noise floor.																																																																																																																																																																																																																																																	

LTE
Band 2
1.4MHz
QPSK

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

Company: Samsung
Project #: 16K23793
Date: 08-24-16
Test Engineer: Chan Park
Configuration: EUT / AC Adapter / Cradle / Z Position
Mode: TX, LTE BAND 2, 1.4MHz BW, QPSK

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 (1850.7MHz)									
3.7014	-10.6	V	3.0	40.5	1.0	-50.1	-13.0	-37.1	
5.5521	-13.8	V	3.0	40.8	1.0	-53.7	-13.0	-40.7	
7.4028	-5.0	V	3.0	40.8	1.0	-44.8	-13.0	-31.8	
3.7014	-9.6	H	3.0	40.5	1.0	-49.1	-13.0	-36.1	
5.5521	-16.9	H	3.0	40.8	1.0	-56.7	-13.0	-43.7	
7.4028	-3.6	H	3.0	40.8	1.0	-43.4	-13.0	-30.4	
Mid Channel (1880MHz)									
3.7600	-13.4	V	3.0	40.5	1.0	-53.0	-13.0	-40.0	
5.6400	-15.4	V	3.0	40.8	1.0	-55.2	-13.0	-42.2	
7.5200	-7.5	V	3.0	40.7	1.0	-47.3	-13.0	-34.3	
3.7600	-11.9	H	3.0	40.5	1.0	-51.5	-13.0	-38.5	
5.6400	-16.1	H	3.0	40.8	1.0	-55.9	-13.0	-42.9	
7.5200	-3.8	H	3.0	40.7	1.0	-43.6	-13.0	-30.6	
High Channel (1909.3MHz)									
3.8186	-9.5	V	3.0	40.6	1.0	-49.1	-13.0	-36.1	
5.7279	-12.7	V	3.0	40.8	1.0	-52.5	-13.0	-39.5	
7.6372	-5.5	V	3.0	40.7	1.0	-45.1	-13.0	-32.1	
3.8186	-12.0	H	3.0	40.6	1.0	-51.6	-13.0	-38.6	
5.7279	-14.0	H	3.0	40.8	1.0	-53.8	-13.0	-40.8	
7.6372	-2.3	H	3.0	40.7	1.0	-42.0	-13.0	-29.0	

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

LTE
Band 2
1.4MHz
16QAM

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

Company: Samsung
Project #: 16K23793
Date: 08-24-16
Test Engineer: Chan Park
Configuration: EUT / AC Adapter / Cradle / Z Position
Mode: TX, LTE BAND 2, 1.4MHz 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 (1850.7MHz)									
3.7014	-12.2	V	3.0	40.5	1.0	-51.7	-13.0	-38.7	
5.5521	-14.5	V	3.0	40.8	1.0	-54.3	-13.0	-41.3	
7.4028	-8.3	V	3.0	40.8	1.0	-48.0	-13.0	-35.0	
3.7014	-14.0	H	3.0	40.5	1.0	-53.5	-13.0	-40.5	
5.5521	-17.2	H	3.0	40.8	1.0	-57.0	-13.0	-44.0	
7.4028	-2.5	H	3.0	40.8	1.0	-42.3	-13.0	-29.3	
Mid Channel (1880MHz)									
3.7600	-14.6	V	3.0	40.5	1.0	-54.1	-13.0	-41.1	
5.6400	-15.9	V	3.0	40.8	1.0	-55.7	-13.0	-42.7	
7.5200	-7.9	V	3.0	40.7	1.0	-47.7	-13.0	-34.7	
3.7600	-11.6	H	3.0	40.5	1.0	-51.1	-13.0	-38.1	
5.6400	-15.9	H	3.0	40.8	1.0	-55.7	-13.0	-42.7	
7.5200	-3.4	H	3.0	40.7	1.0	-43.1	-13.0	-30.1	
High Channel (1909.3MHz)									
3.8186	-10.6	V	3.0	40.6	1.0	-50.2	-13.0	-37.2	
5.7279	-13.5	V	3.0	40.8	1.0	-53.3	-13.0	-40.3	
7.6372	-5.7	V	3.0	40.7	1.0	-45.4	-13.0	-32.4	
3.8186	-12.0	H	3.0	40.6	1.0	-51.6	-13.0	-38.6	
5.7279	-14.5	H	3.0	40.8	1.0	-54.3	-13.0	-41.3	
7.6372	-1.8	H	3.0	40.7	1.0	-41.5	-13.0	-28.5	

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