

WCDMA Band 2

WCDMA Band 2 REL99	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788397760 Date: 2018-04-05 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, X-Position Location: Chamber 3 Mode: Rel99 Band 2 Harmonics									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
WCDMA Band 2 HSDPA	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788397760 Date: 2018-04-05 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, X-Position Location: Chamber 3 Mode: HSDPA Band 2 Harmonics									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes

WCDMA Band 4

WCDMA Band 4 REL99	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788397760 Date: 2018-04-05 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, X-Position Location: Chamber 3 Mode: Rel99 Band 4 Harmonics									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
WCDMA Band 4 HSDPA	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788397760 Date: 2018-04-05 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, X-Position Location: Chamber 3 Mode: HSDPA Band 4 Harmonics									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes

LTE Band 5

LTE Band 5 10MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397760 Date: 2018-04-04 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_QPSK Band 5 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 829MHz									
	1658.00	-15.3	V	3.0	41.8	1.0	-56.1	-13.0	-43.1	
	2487.00	-17.4	V	3.0	41.7	1.0	-58.1	-13.0	-45.1	
	3316.00	-15.8	V	3.0	41.1	1.0	-55.9	-13.0	-42.9	
	1658.00	-13.7	H	3.0	41.8	1.0	-54.6	-13.0	-41.6	
	2487.00	-18.0	H	3.0	41.7	1.0	-58.7	-13.0	-45.7	
	3316.00	-16.2	H	3.0	41.1	1.0	-56.3	-13.0	-43.3	
	Mid Ch, 836.5MHz									
	1673.00	-15.4	V	3.0	41.8	1.0	-56.3	-13.0	-43.3	
	2509.50	-17.4	V	3.0	41.7	1.0	-58.0	-13.0	-45.0	
	3346.00	-15.9	V	3.0	41.1	1.0	-56.0	-13.0	-43.0	
	1673.00	-13.7	H	3.0	41.8	1.0	-54.6	-13.0	-41.6	
	2509.50	-15.8	H	3.0	41.7	1.0	-56.5	-13.0	-43.5	
	3346.00	-16.0	H	3.0	41.1	1.0	-56.1	-13.0	-43.1	
	High Ch, 844MHz									
	1688.00	-14.4	V	3.0	41.8	1.0	-55.3	-13.0	-42.3	
	2532.00	-16.8	V	3.0	41.7	1.0	-57.5	-13.0	-44.5	
3376.00	-16.1	V	3.0	41.1	1.0	-56.2	-13.0	-43.2		
1688.00	-12.9	H	3.0	41.8	1.0	-53.8	-13.0	-40.8		
2532.00	-17.6	H	3.0	41.7	1.0	-58.2	-13.0	-45.2		
3376.00	-16.6	H	3.0	41.1	1.0	-56.6	-13.0	-43.6		
LTE Band 5 10MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397760 Date: 2018-04-04 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_16QAM Band 5 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 829MHz									
	1658.00	-15.0	V	3.0	41.8	1.0	-55.9	-13.0	-42.9	
	2487.00	-16.9	V	3.0	41.7	1.0	-57.6	-13.0	-44.6	
	3316.00	-16.0	V	3.0	41.1	1.0	-56.1	-13.0	-43.1	
	1658.00	-13.6	H	3.0	41.8	1.0	-54.4	-13.0	-41.4	
	2487.00	-17.6	H	3.0	41.7	1.0	-58.3	-13.0	-45.3	
	3316.00	-16.3	H	3.0	41.1	1.0	-56.4	-13.0	-43.4	
	Mid Ch, 836.5MHz									
	1673.00	-14.5	V	3.0	41.8	1.0	-55.3	-13.0	-42.3	
	2509.50	-17.4	V	3.0	41.7	1.0	-58.1	-13.0	-45.1	
	3346.00	-16.4	V	3.0	41.1	1.0	-56.5	-13.0	-43.5	
	1673.00	-14.0	H	3.0	41.8	1.0	-54.8	-13.0	-41.8	
	2509.50	-17.7	H	3.0	41.7	1.0	-58.4	-13.0	-45.4	
	3346.00	-16.2	H	3.0	41.1	1.0	-56.3	-13.0	-43.3	
	High Ch, 844MHz									
	1688.00	-14.3	V	3.0	41.8	1.0	-55.2	-13.0	-42.2	
	2532.00	-16.6	V	3.0	41.7	1.0	-57.2	-13.0	-44.2	
3376.00	-16.1	V	3.0	41.1	1.0	-56.2	-13.0	-43.2		
1688.00	-13.1	H	3.0	41.8	1.0	-54.0	-13.0	-41.0		
2532.00	-17.1	H	3.0	41.7	1.0	-57.8	-13.0	-44.8		
3376.00	-16.6	H	3.0	41.1	1.0	-56.7	-13.0	-43.7		

LTE Band 5 5MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397760 Date: 2018-04-06 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_QPSK Band 5 Harmonics, 3MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 825.5MHz									
	1651.00	-14.4	V	3.0	41.8	1.0	-55.2	-13.0	-42.2	
	2476.50	-15.0	V	3.0	41.7	1.0	-55.7	-13.0	-42.7	
	3302.00	-15.9	V	3.0	41.1	1.0	-56.1	-13.0	-43.1	
	1651.00	-14.2	H	3.0	41.8	1.0	-55.0	-13.0	-42.0	
	2476.50	-17.1	H	3.0	41.7	1.0	-57.8	-13.0	-44.8	
	3302.00	-15.9	H	3.0	41.1	1.0	-56.0	-13.0	-43.0	
	Mid Ch, 836.5MHz									
	1673.00	-14.0	V	3.0	41.8	1.0	-54.8	-13.0	-41.8	
	2509.50	-14.3	V	3.0	41.7	1.0	-55.0	-13.0	-42.0	
	3346.00	-16.4	V	3.0	41.1	1.0	-56.5	-13.0	-43.5	
	1673.00	-14.3	H	3.0	41.8	1.0	-55.1	-13.0	-42.1	
	2509.50	-17.0	H	3.0	41.7	1.0	-57.7	-13.0	-44.7	
	3346.00	-17.1	H	3.0	41.1	1.0	-57.2	-13.0	-44.2	
	High Ch, 847.5MHz									
	1695.00	-13.4	V	3.0	41.8	1.0	-54.2	-13.0	-41.2	
	2542.50	-13.8	V	3.0	41.6	1.0	-54.4	-13.0	-41.4	
	3390.00	-16.3	V	3.0	41.1	1.0	-56.3	-13.0	-43.3	
	1695.00	-14.9	H	3.0	41.8	1.0	-55.7	-13.0	-42.7	
	2542.50	-16.2	H	3.0	41.6	1.0	-56.8	-13.0	-43.8	
3390.00	-16.8	H	3.0	41.1	1.0	-56.9	-13.0	-43.9		
LTE Band 5 5MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397760 Date: 2018-04-04 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_16QAM Band 5 Harmonics, 5MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 826.5MHz									
	1653.00	-15.3	V	3.0	41.8	1.0	-56.1	-13.0	-43.1	
	2479.50	-16.4	V	3.0	41.7	1.0	-57.1	-13.0	-44.1	
	3306.00	-16.2	V	3.0	41.1	1.0	-56.3	-13.0	-43.3	
	1653.00	-14.5	H	3.0	41.8	1.0	-55.3	-13.0	-42.3	
	2479.50	-15.7	H	3.0	41.7	1.0	-56.4	-13.0	-43.4	
	3306.00	-16.5	H	3.0	41.1	1.0	-56.6	-13.0	-43.6	
	Mid Ch, 836.5MHz									
	1673.00	-14.8	V	3.0	41.8	1.0	-55.7	-13.0	-42.7	
	2509.50	-16.8	V	3.0	41.7	1.0	-57.5	-13.0	-44.5	
	3346.00	-16.7	V	3.0	41.1	1.0	-56.8	-13.0	-43.8	
	1673.00	-14.3	H	3.0	41.8	1.0	-55.1	-13.0	-42.1	
	2509.50	-16.2	H	3.0	41.7	1.0	-56.9	-13.0	-43.9	
	3346.00	-16.3	H	3.0	41.1	1.0	-56.4	-13.0	-43.4	
	High Ch, 846.5MHz									
	1693.00	-14.8	V	3.0	41.8	1.0	-55.7	-13.0	-42.7	
	2539.50	-15.5	V	3.0	41.6	1.0	-56.2	-13.0	-43.2	
	3386.00	-16.3	V	3.0	41.1	1.0	-56.3	-13.0	-43.3	
	1693.00	-14.1	H	3.0	41.8	1.0	-54.9	-13.0	-41.9	
	2539.50	-17.2	H	3.0	41.6	1.0	-57.8	-13.0	-44.8	
3386.00	-16.7	H	3.0	41.1	1.0	-56.7	-13.0	-43.7		

LTE Band 5 3MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397760 Date: 2018-04-06 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_QPSK Band 5 Harmonics, 3MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 825.5MHz									
	1651.00	-13.1	V	3.0	41.8	1.0	-53.9	-13.0	-40.9	
	2476.50	-17.4	V	3.0	41.7	1.0	-58.1	-13.0	-45.1	
	3302.00	-15.6	V	3.0	41.1	1.0	-55.7	-13.0	-42.7	
	1651.00	-15.4	H	3.0	41.8	1.0	-56.2	-13.0	-43.2	
	2476.50	-17.5	H	3.0	41.7	1.0	-58.2	-13.0	-45.2	
	3302.00	-16.3	H	3.0	41.1	1.0	-56.4	-13.0	-43.4	
	Mid Ch, 836.5MHz									
	1673.00	-13.2	V	3.0	41.8	1.0	-54.0	-13.0	-41.0	
	2509.50	-16.1	V	3.0	41.7	1.0	-56.7	-13.0	-43.7	
	3346.00	-15.8	V	3.0	41.1	1.0	-55.9	-13.0	-42.9	
	1673.00	-15.9	H	3.0	41.8	1.0	-56.7	-13.0	-43.7	
	2509.50	-17.5	H	3.0	41.7	1.0	-58.1	-13.0	-45.1	
	3346.00	-16.2	H	3.0	41.1	1.0	-56.3	-13.0	-43.3	
	High Ch, 847.5MHz									
	1695.00	-12.6	V	3.0	41.8	1.0	-53.4	-13.0	-40.4	
	2542.50	-16.0	V	3.0	41.6	1.0	-56.6	-13.0	-43.6	
	3390.00	-15.8	V	3.0	41.1	1.0	-55.9	-13.0	-42.9	
	1695.00	-15.5	H	3.0	41.8	1.0	-56.3	-13.0	-43.3	
	2542.50	-17.7	H	3.0	41.6	1.0	-58.4	-13.0	-45.4	
	3390.00	-15.8	H	3.0	41.1	1.0	-55.8	-13.0	-42.8	
LTE Band 5 3MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397760 Date: 2018-04-04 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_16QAM Band 5 Harmonics, 3MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 825.5MHz									
	1651.00	-15.5	V	3.0	41.8	1.0	-56.3	-13.0	-43.3	
	2476.50	-17.2	V	3.0	41.7	1.0	-57.9	-13.0	-44.9	
	3302.00	-16.0	V	3.0	41.1	1.0	-56.1	-13.0	-43.1	
	1651.00	-15.6	H	3.0	41.8	1.0	-56.4	-13.0	-43.4	
	2476.50	-17.8	H	3.0	41.7	1.0	-58.5	-13.0	-45.5	
	3302.00	-16.3	H	3.0	41.1	1.0	-56.5	-13.0	-43.5	
	Mid Ch, 836.5MHz									
	1673.00	-14.8	V	3.0	41.8	1.0	-55.7	-13.0	-42.7	
	2509.50	-16.4	V	3.0	41.7	1.0	-57.1	-13.0	-44.1	
	3346.00	-16.6	V	3.0	41.1	1.0	-56.6	-13.0	-43.6	
	1673.00	-13.6	H	3.0	41.8	1.0	-54.4	-13.0	-41.4	
	2509.50	-17.9	H	3.0	41.7	1.0	-58.6	-13.0	-45.6	
	3346.00	-16.4	H	3.0	41.1	1.0	-56.5	-13.0	-43.5	
	High Ch, 847.5MHz									
	1695.00	-14.7	V	3.0	41.8	1.0	-55.5	-13.0	-42.5	
	2542.50	-15.3	V	3.0	41.6	1.0	-55.9	-13.0	-42.9	
	3390.00	-15.5	V	3.0	41.1	1.0	-55.6	-13.0	-42.6	
	1695.00	-12.9	H	3.0	41.8	1.0	-53.8	-13.0	-40.8	
	2542.50	-16.1	H	3.0	41.6	1.0	-56.7	-13.0	-43.7	
	3390.00	-16.5	H	3.0	41.1	1.0	-56.5	-13.0	-43.5	

LTE Band 5 1.4MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788397760									
	Date: 2018-04-04									
	Test Engineer: 45585									
	Configuration: EUT / Adapter / Earphone, Z-Position									
	Location: Chamber 3									
	Mode: LTE_QPSK Band 5 Harmonics, 1.4MHz Bandwidth									

LTE Band 66

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4788397760							
Date:		2018-04-06							
Test Engineer:		45585							
Configuration:		EUT / Adapter / Earphone, X-Position							
Location:		Chamber 3							
Mode:		LTE_QPSK Band 66 Harmonics, 20MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1720MHz									
3440.00	-2.7	V	3.0	41.0	1.0	-42.7	-13.0	-29.7	
5160.00	-0.8	V	3.0	40.1	1.0	-39.9	-13.0	-26.9	
6880.00	-2.6	V	3.0	40.0	1.0	-41.6	-13.0	-28.6	
8600.00	-7.6	V	3.0	39.8	1.0	-46.4	-13.0	-33.4	
10320.00	-3.2	V	3.0	40.1	1.0	-42.3	-13.0	-29.3	
3440.00	0.0	H	3.0	41.0	1.0	-40.0	-13.0	-27.0	
5160.00	-3.6	H	3.0	40.1	1.0	-42.7	-13.0	-29.7	
6880.00	-4.9	H	3.0	40.0	1.0	-43.9	-13.0	-30.9	
8600.00	-7.0	H	3.0	39.8	1.0	-45.7	-13.0	-32.7	
10320.00	-5.8	H	3.0	40.1	1.0	-44.9	-13.0	-31.9	
Mid Ch, 1745MHz									
3490.00	-8.7	V	3.0	41.0	1.0	-48.7	-13.0	-35.7	
5235.00	2.5	V	3.0	40.1	1.0	-36.6	-13.0	-23.6	
6980.00	-2.5	V	3.0	40.0	1.0	-41.5	-13.0	-28.5	
8725.00	-7.6	V	3.0	39.7	1.0	-46.3	-13.0	-33.3	
10470.00	-3.8	V	3.0	40.1	1.0	-42.9	-13.0	-29.9	
3490.00	-5.1	H	3.0	41.0	1.0	-45.1	-13.0	-32.1	
5235.00	-1.0	H	3.0	40.1	1.0	-40.1	-13.0	-27.1	
6980.00	-5.4	H	3.0	40.0	1.0	-44.4	-13.0	-31.4	
8725.00	-7.8	H	3.0	39.7	1.0	-46.5	-13.0	-33.5	
10470.00	-5.0	H	3.0	40.1	1.0	-44.1	-13.0	-31.1	
High Ch, 1770MHz									
3540.00	-10.4	V	3.0	41.0	1.0	-50.3	-13.0	-37.3	
5310.00	1.8	V	3.0	40.1	1.0	-37.3	-13.0	-24.3	
7080.00	-5.6	V	3.0	40.0	1.0	-44.7	-13.0	-31.7	
8850.00	-7.6	V	3.0	39.6	1.0	-46.3	-13.0	-33.3	
10620.00	-4.4	V	3.0	40.0	1.0	-43.5	-13.0	-30.5	
3540.00	-4.5	H	3.0	41.0	1.0	-44.4	-13.0	-31.4	
5310.00	-0.7	H	3.0	40.1	1.0	-39.8	-13.0	-26.8	
7080.00	-8.2	H	3.0	40.0	1.0	-47.2	-13.0	-34.2	
8850.00	-8.0	H	3.0	39.6	1.0	-46.6	-13.0	-33.6	
10620.00	-5.4	H	3.0	40.0	1.0	-44.4	-13.0	-31.4	

LTE Band 66 15MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																																																																																																																																																	
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	Test Engineer:		45585																																																																																																																																																																																																																																																																																																																																																															
	Configuration:		EUT / Adapter / Earphone, X-Position																																																																																																																																																																																																																																																																																																																																																															
	Location:		Chamber 3																																																																																																																																																																																																																																																																																																																																																															
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	<table><tr><th>f MHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamplifier (dB)</th><th>Filter (dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="11">Low Ch, 1717.5MHz</td></tr><tr><td>3435.00</td><td>-2.7</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-42.7</td><td>-13.0</td><td>-29.7</td><td></td></tr><tr><td>5152.50</td><td>-0.7</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-39.8</td><td>-13.0</td><td>-26.8</td><td></td></tr><tr><td>6870.00</td><td>-1.9</td><td>V</td><td>3.0</td><td>40.0</td><td>1.0</td><td>-40.9</td><td>-13.0</td><td>-27.9</td><td></td></tr><tr><td>8587.50</td><td>-8.0</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-46.7</td><td>-13.0</td><td>-33.7</td><td></td></tr><tr><td>10305.00</td><td>-6.4</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-45.5</td><td>-13.0</td><td>-32.5</td><td></td></tr><tr><td>3435.00</td><td>1.2</td><td>H</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>5152.50</td><td>-4.5</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-43.6</td><td>-13.0</td><td>-30.6</td><td></td></tr><tr><td>6870.00</td><td>-4.4</td><td>H</td><td>3.0</td><td>40.0</td><td>1.0</td><td>-43.4</td><td>-13.0</td><td>-30.4</td><td></td></tr><tr><td>8587.50</td><td>-7.8</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-46.6</td><td>-13.0</td><td>-33.6</td><td></td></tr><tr><td>10305.00</td><td>-6.2</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-45.3</td><td>-13.0</td><td>-32.3</td><td></td></tr><tr><td colspan="11">Mid Ch, 1745MHz</td></tr><tr><td>3490.00</td><td>-7.8</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-47.8</td><td>-13.0</td><td>-34.8</td><td></td></tr><tr><td>5235.00</td><td>2.0</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-37.1</td><td>-13.0</td><td>-24.1</td><td></td></tr><tr><td>6980.00</td><td>-3.1</td><td>V</td><td>3.0</td><td>40.0</td><td>1.0</td><td>-42.2</td><td>-13.0</td><td>-29.2</td><td></td></tr><tr><td>8725.00</td><td>-7.3</td><td>V</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-46.0</td><td>-13.0</td><td>-33.0</td><td></td></tr><tr><td>10470.00</td><td>-4.2</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-43.3</td><td>-13.0</td><td>-30.3</td><td></td></tr><tr><td>3490.00</td><td>-5.1</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-45.1</td><td>-13.0</td><td>-32.1</td><td></td></tr><tr><td>5235.00</td><td>-1.4</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-40.5</td><td>-13.0</td><td>-27.5</td><td></td></tr><tr><td>6980.00</td><td>-5.9</td><td>H</td><td>3.0</td><td>40.0</td><td>1.0</td><td>-45.0</td><td>-13.0</td><td>-32.0</td><td></td></tr><tr><td>8725.00</td><td>-7.6</td><td>H</td><td>3.0</td><td>39.7</td><td>1.0</td><td>-46.3</td><td>-13.0</td><td>-33.3</td><td></td></tr><tr><td>10470.00</td><td>-6.1</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-45.2</td><td>-13.0</td><td>-32.2</td><td></td></tr><tr><td colspan="11">High Ch, 1772.5MHz</td></tr><tr><td>3545.00</td><td>-9.1</td><td>V</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-49.0</td><td>-13.0</td><td>-36.0</td><td></td></tr><tr><td>5317.50</td><td>1.8</td><td>V</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-37.3</td><td>-13.0</td><td>-24.3</td><td></td></tr><tr><td>7090.00</td><td>-5.7</td><td>V</td><td>3.0</td><td>40.0</td><td>1.0</td><td>-44.7</td><td>-13.0</td><td>-31.7</td><td></td></tr><tr><td>8862.50</td><td>-7.7</td><td>V</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-46.4</td><td>-13.0</td><td>-33.4</td><td></td></tr><tr><td>10635.00</td><td>-4.5</td><td>V</td><td>3.0</td><td>40.0</td><td>1.0</td><td>-43.6</td><td>-13.0</td><td>-30.6</td><td></td></tr><tr><td>3545.00</td><td>-5.8</td><td>H</td><td>3.0</td><td>41.0</td><td>1.0</td><td>-45.8</td><td>-13.0</td><td>-32.8</td><td></td></tr><tr><td>5317.50</td><td>-0.4</td><td>H</td><td>3.0</td><td>40.1</td><td>1.0</td><td>-39.5</td><td>-13.0</td><td>-26.5</td><td></td></tr><tr><td>7090.00</td><td>-8.8</td><td>H</td><td>3.0</td><td>40.0</td><td>1.0</td><td>-47.8</td><td>-13.0</td><td>-34.8</td><td></td></tr><tr><td>8862.50</td><td>-7.7</td><td>H</td><td>3.0</td><td>39.6</td><td>1.0</td><td>-46.3</td><td>-13.0</td><td>-33.3</td><td></td></tr><tr><td>10635.00</td><td>-5.2</td><td>H</td><td>3.0</td><td>40.0</td><td>1.0</td><td>-44.3</td><td>-13.0</td><td>-31.3</td><td></td></tr></table>											f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 1717.5MHz											3435.00	-2.7	V	3.0	41.0	1.0	-42.7	-13.0	-29.7		5152.50	-0.7	V	3.0	40.1	1.0	-39.8	-13.0	-26.8		6870.00	-1.9	V	3.0	40.0	1.0	-40.9	-13.0	-27.9		8587.50	-8.0	V	3.0	39.8	1.0	-46.7	-13.0	-33.7		10305.00	-6.4	V	3.0	40.1	1.0	-45.5	-13.0	-32.5		3435.00	1.2	H	3.0	41.0	1.0	-38.8	-13.0	-25.8		5152.50	-4.5	H	3.0	40.1	1.0	-43.6	-13.0	-30.6		6870.00	-4.4	H	3.0	40.0	1.0	-43.4	-13.0	-30.4		8587.50	-7.8	H	3.0	39.8	1.0	-46.6	-13.0	-33.6		10305.00	-6.2	H	3.0	40.1	1.0	-45.3	-13.0	-32.3		Mid Ch, 1745MHz											3490.00	-7.8	V	3.0	41.0	1.0	-47.8	-13.0	-34.8		5235.00	2.0	V	3.0	40.1	1.0	-37.1	-13.0	-24.1		6980.00	-3.1	V	3.0	40.0	1.0	-42.2	-13.0	-29.2		8725.00	-7.3	V	3.0	39.7	1.0	-46.0	-13.0	-33.0		10470.00	-4.2	V	3.0	40.1	1.0	-43.3	-13.0	-30.3		3490.00	-5.1	H	3.0	41.0	1.0	-45.1	-13.0	-32.1		5235.00	-1.4	H	3.0	40.1	1.0	-40.5	-13.0	-27.5		6980.00	-5.9	H	3.0	40.0	1.0	-45.0	-13.0	-32.0		8725.00	-7.6	H	3.0	39.7	1.0	-46.3	-13.0	-33.3		10470.00	-6.1	H	3.0	40.1	1.0	-45.2	-13.0	-32.2		High Ch, 1772.5MHz											3545.00	-9.1	V	3.0	41.0	1.0	-49.0	-13.0	-36.0		5317.50	1.8	V	3.0	40.1	1.0	-37.3	-13.0	-24.3		7090.00	-5.7	V	3.0	40.0	1.0	-44.7	-13.0	-31.7		8862.50	-7.7	V	3.0	39.6	1.0	-46.4	-13.0	-33.4		10635.00	-4.5	V	3.0	40.0	1.0	-43.6	-13.0	-30.6		3545.00	-5.8	H	3.0	41.0	1.0	-45.8	-13.0	-32.8		5317.50	-0.4	H	3.0	40.1	1.0	-39.5	-13.0	-26.5		7090.00	-8.8	H	3.0	40.0	1.0	-47.8	-13.0	-34.8		8862.50	-7.7	H	3.0	39.6	1.0	-46.3	-13.0	-33.3		10635.00	-5.2	H	3.0	40.0	1.0	-44.3	-13.0	-31.3	
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																																																																																																																																																								
	Low Ch, 1717.5MHz																																																																																																																																																																																																																																																																																																																																																																	
	3435.00	-2.7	V	3.0	41.0	1.0	-42.7	-13.0	-29.7																																																																																																																																																																																																																																																																																																																																																									
	5152.50	-0.7	V	3.0	40.1	1.0	-39.8	-13.0	-26.8																																																																																																																																																																																																																																																																																																																																																									
	6870.00	-1.9	V	3.0	40.0	1.0	-40.9	-13.0	-27.9																																																																																																																																																																																																																																																																																																																																																									
	8587.50	-8.0	V	3.0	39.8	1.0	-46.7	-13.0	-33.7																																																																																																																																																																																																																																																																																																																																																									
	10305.00	-6.4	V	3.0	40.1	1.0	-45.5	-13.0	-32.5																																																																																																																																																																																																																																																																																																																																																									
	3435.00	1.2	H	3.0	41.0	1.0	-38.8	-13.0	-25.8																																																																																																																																																																																																																																																																																																																																																									
	5152.50	-4.5	H	3.0	40.1	1.0	-43.6	-13.0	-30.6																																																																																																																																																																																																																																																																																																																																																									
	6870.00	-4.4	H	3.0	40.0	1.0	-43.4	-13.0	-30.4																																																																																																																																																																																																																																																																																																																																																									
	8587.50	-7.8	H	3.0	39.8	1.0	-46.6	-13.0	-33.6																																																																																																																																																																																																																																																																																																																																																									
	10305.00	-6.2	H	3.0	40.1	1.0	-45.3	-13.0	-32.3																																																																																																																																																																																																																																																																																																																																																									
	Mid Ch, 1745MHz																																																																																																																																																																																																																																																																																																																																																																	
	3490.00	-7.8	V	3.0	41.0	1.0	-47.8	-13.0	-34.8																																																																																																																																																																																																																																																																																																																																																									
	5235.00	2.0	V	3.0	40.1	1.0	-37.1	-13.0	-24.1																																																																																																																																																																																																																																																																																																																																																									
	6980.00	-3.1	V	3.0	40.0	1.0	-42.2	-13.0	-29.2																																																																																																																																																																																																																																																																																																																																																									
	8725.00	-7.3	V	3.0	39.7	1.0	-46.0	-13.0	-33.0																																																																																																																																																																																																																																																																																																																																																									
	10470.00	-4.2	V	3.0	40.1	1.0	-43.3	-13.0	-30.3																																																																																																																																																																																																																																																																																																																																																									
	3490.00	-5.1	H	3.0	41.0	1.0	-45.1	-13.0	-32.1																																																																																																																																																																																																																																																																																																																																																									
	5235.00	-1.4	H	3.0	40.1	1.0	-40.5	-13.0	-27.5																																																																																																																																																																																																																																																																																																																																																									
	6980.00	-5.9	H	3.0	40.0	1.0	-45.0	-13.0	-32.0																																																																																																																																																																																																																																																																																																																																																									
	8725.00	-7.6	H	3.0	39.7	1.0	-46.3	-13.0	-33.3																																																																																																																																																																																																																																																																																																																																																									
	10470.00	-6.1	H	3.0	40.1	1.0	-45.2	-13.0	-32.2																																																																																																																																																																																																																																																																																																																																																									
	High Ch, 1772.5MHz																																																																																																																																																																																																																																																																																																																																																																	
	3545.00	-9.1	V	3.0	41.0	1.0	-49.0	-13.0	-36.0																																																																																																																																																																																																																																																																																																																																																									
	5317.50	1.8	V	3.0	40.1	1.0	-37.3	-13.0	-24.3																																																																																																																																																																																																																																																																																																																																																									
	7090.00	-5.7	V	3.0	40.0	1.0	-44.7	-13.0	-31.7																																																																																																																																																																																																																																																																																																																																																									
	8862.50	-7.7	V	3.0	39.6	1.0	-46.4	-13.0	-33.4																																																																																																																																																																																																																																																																																																																																																									
	10635.00	-4.5	V	3.0	40.0	1.0	-43.6	-13.0	-30.6																																																																																																																																																																																																																																																																																																																																																									
	3545.00	-5.8	H	3.0	41.0	1.0	-45.8	-13.0	-32.8																																																																																																																																																																																																																																																																																																																																																									
	5317.50	-0.4	H	3.0	40.1	1.0	-39.5	-13.0	-26.5																																																																																																																																																																																																																																																																																																																																																									
7090.00	-8.8	H	3.0	40.0	1.0	-47.8	-13.0	-34.8																																																																																																																																																																																																																																																																																																																																																										
8862.50	-7.7	H	3.0	39.6	1.0	-46.3	-13.0	-33.3																																																																																																																																																																																																																																																																																																																																																										
10635.00	-5.2	H	3.0	40.0	1.0	-44.3	-13.0	-31.3																																																																																																																																																																																																																																																																																																																																																										

UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
Company:		Samsung							
Project #:		4788397760							
Date:		2018-04-05							
Test Engineer:		45585							
Configuration:		EUT / Adapter / Earphone, X-Position							
Location:		Chamber 3							
Mode:		LTE_QPSK Band 66 Harmonics, 10MHz Bandwidth							
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1715MHz									
3430.00	-1.6	V	3.0	41.0	1.0	-41.6	-13.0	-28.6	
5145.00	-0.7	V	3.0	40.1	1.0	-39.8	-13.0	-26.8	
6860.00	-1.8	V	3.0	40.0	1.0	-40.8	-13.0	-27.8	
8575.00	-8.1	V	3.0	39.8	1.0	-46.9	-13.0	-33.9	
10290.00	-4.1	V	3.0	40.1	1.0	-43.2	-13.0	-30.2	
3430.00	0.8	H	3.0	41.0	1.0	-39.2	-13.0	-26.2	
5145.00	-4.5	H	3.0	40.1	1.0	-43.6	-13.0	-30.6	
6860.00	-3.5	H	3.0	40.0	1.0	-42.5	-13.0	-29.5	
8575.00	-8.2	H	3.0	39.8	1.0	-46.9	-13.0	-33.9	
10290.00	-6.2	H	3.0	40.1	1.0	-45.3	-13.0	-32.3	
Mid Ch, 1745MHz									
3490.00	-13.4	V	3.0	41.0	1.0	-53.4	-13.0	-40.4	
5235.00	-13.4	V	3.0	40.1	1.0	-52.5	-13.0	-39.5	
6980.00	-9.5	V	3.0	40.0	1.0	-48.6	-13.0	-35.6	
8725.00	-7.5	V	3.0	39.7	1.0	-46.2	-13.0	-33.2	
10470.00	-3.0	V	3.0	40.1	1.0	-42.1	-13.0	-29.1	
3490.00	-4.4	H	3.0	41.0	1.0	-44.5	-13.0	-31.5	
5235.00	-1.1	H	3.0	40.1	1.0	-40.2	-13.0	-27.2	
6980.00	-5.5	H	3.0	40.0	1.0	-44.5	-13.0	-31.5	
8725.00	-7.9	H	3.0	39.7	1.0	-46.5	-13.0	-33.5	
10470.00	-6.1	H	3.0	40.1	1.0	-45.2	-13.0	-32.2	
High Ch, 1775MHz									
3550.00	-7.8	V	3.0	41.0	1.0	-47.8	-13.0	-34.8	
5325.00	1.5	V	3.0	40.1	1.0	-37.6	-13.0	-24.6	
7100.00	-6.1	V	3.0	40.0	1.0	-45.2	-13.0	-32.2	
8875.00	-7.2	V	3.0	39.6	1.0	-45.8	-13.0	-32.8	
10650.00	-2.3	V	3.0	40.0	1.0	-41.3	-13.0	-28.3	
3550.00	-4.9	H	3.0	41.0	1.0	-44.9	-13.0	-31.9	
5325.00	-0.3	H	3.0	40.1	1.0	-39.4	-13.0	-26.4	
7100.00	-7.6	H	3.0	40.0	1.0	-46.6	-13.0	-33.6	
8875.00	-8.0	H	3.0	39.6	1.0	-46.6	-13.0	-33.6	
10650.00	-4.9	H	3.0	40.0	1.0	-43.9	-13.0	-30.9	

	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397760 Date: 2018-04-05 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, X-Position Location: Chamber 3 Mode: LTE_16QAM Band 66 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE Band 66 10MHz 16QAM	Low Ch, 1715MHz									
	3430.00	-1.2	V	3.0	41.0	1.0	-41.3	-13.0	-28.3	
	5145.00	-0.6	V	3.0	40.1	1.0	-39.7	-13.0	-26.7	
	6860.00	-1.8	V	3.0	40.0	1.0	-40.8	-13.0	-27.8	
	8575.00	-7.8	V	3.0	39.8	1.0	-46.6	-13.0	-33.6	
	10290.00	-3.5	V	3.0	40.1	1.0	-42.6	-13.0	-29.6	
	3430.00	2.0	H	3.0	41.0	1.0	-38.1	-13.0	-25.1	
	5145.00	-5.2	H	3.0	40.1	1.0	-44.3	-13.0	-31.3	
	6860.00	-3.8	H	3.0	40.0	1.0	-42.8	-13.0	-29.8	
	8575.00	-8.2	H	3.0	39.8	1.0	-46.9	-13.0	-33.9	
	10290.00	-6.3	H	3.0	40.1	1.0	-45.4	-13.0	-32.4	
	Mid Ch, 1745MHz									
	3490.00	-7.2	V	3.0	41.0	1.0	-47.2	-13.0	-34.2	
	5235.00	2.3	V	3.0	40.1	1.0	-36.8	-13.0	-23.8	
	6980.00	-2.1	V	3.0	40.0	1.0	-41.2	-13.0	-28.2	
	8725.00	-7.8	V	3.0	39.7	1.0	-46.5	-13.0	-33.5	
	10470.00	-4.0	V	3.0	40.1	1.0	-43.1	-13.0	-30.1	
	3490.00	-4.9	H	3.0	41.0	1.0	-44.9	-13.0	-31.9	
	5235.00	-2.1	H	3.0	40.1	1.0	-41.2	-13.0	-28.2	
	6980.00	-5.2	H	3.0	40.0	1.0	-44.3	-13.0	-31.3	
	8725.00	-7.6	H	3.0	39.7	1.0	-46.3	-13.0	-33.3	
	10470.00	-6.3	H	3.0	40.1	1.0	-45.4	-13.0	-32.4	
	High Ch, 1775MHz									
	3550.00	-8.2	V	3.0	41.0	1.0	-48.1	-13.0	-35.1	
	5325.00	2.0	V	3.0	40.1	1.0	-37.0	-13.0	-24.0	
	7100.00	-5.4	V	3.0	40.0	1.0	-44.4	-13.0	-31.4	
	8875.00	-7.7	V	3.0	39.6	1.0	-46.4	-13.0	-33.4	
	10650.00	-3.1	V	3.0	40.0	1.0	-42.2	-13.0	-29.2	
	3550.00	-5.2	H	3.0	41.0	1.0	-45.2	-13.0	-32.2	
	5325.00	-0.1	H	3.0	40.1	1.0	-39.2	-13.0	-26.2	
	7100.00	-9.0	H	3.0	40.0	1.0	-48.0	-13.0	-35.0	
	8875.00	-7.8	H	3.0	39.6	1.0	-46.4	-13.0	-33.4	
	10650.00	-4.2	H	3.0	40.0	1.0	-43.2	-13.0	-30.2	

LTE Band 2

LTE Band 2 20MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788397760 Date: 2018-04-04 Test Engineer: 45574 Configuration: EUT / Adapter / Earphone, X-Position Location: Chamber 3 Mode: LTE_QPSK Band 2 Harmonics, 20MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
LTE Band 2 20MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788397760 Date: 2018-04-04 Test Engineer: 45574 Configuration: EUT / Adapter / Earphone, X-Position Location: Chamber 3 Mode: LTE_16QAM Band 2 Harmonics, 20MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes

LTE Band 2 15MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788397760									
	Date: 2018-04-04									
	Test Engineer: 45574									
	Configuration: EUT / Adapter / Earphone, X-Position									
	Location: Chamber 3									
	Mode: LTE_QPSK Band 2 Harmonics, 15MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1857.5MHz									
	3715.00	-4.7	V	3.0	40.9	1.0	-44.6	-13.0	-31.6	
	5572.50	-4.6	V	3.0	40.0	1.0	-43.7	-13.0	-30.7	
	7430.00	-9.0	V	3.0	40.0	1.0	-48.0	-13.0	-35.0	
	3715.00	4.2	H	3.0	40.9	1.0	-35.7	-13.0	-22.7	
	5572.50	-5.2	H	3.0	40.0	1.0	-44.2	-13.0	-31.2	
	7430.00	-9.7	H	3.0	40.0	1.0	-48.8	-13.0	-35.8	
	Mid Ch, 1880MHz									
	3760.00	-2.3	V	3.0	40.8	1.0	-42.1	-13.0	-29.1	
	5640.00	-6.6	V	3.0	40.0	1.0	-45.7	-13.0	-32.7	
7520.00	-8.5	V	3.0	40.0	1.0	-47.5	-13.0	-34.5		
3760.00	4.4	H	3.0	40.8	1.0	-35.4	-13.0	-22.4		
5640.00	-7.7	H	3.0	40.0	1.0	-46.7	-13.0	-33.7		
7520.00	-9.5	H	3.0	40.0	1.0	-48.6	-13.0	-35.6		
High Ch, 1902.5MHz										
3805.00	-3.8	V	3.0	40.8	1.0	-43.6	-13.0	-30.6		
5707.50	-6.5	V	3.0	40.0	1.0	-45.5	-13.0	-32.5		
7610.00	-8.2	V	3.0	40.0	1.0	-47.3	-13.0	-34.3		
3805.00	1.7	H	3.0	40.8	1.0	-38.1	-13.0	-25.1		
5707.50	-7.6	H	3.0	40.0	1.0	-46.7	-13.0	-33.7		
7610.00	-10.0	H	3.0	40.0	1.0	-49.0	-13.0	-36.0		
LTE Band 2 15MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788397760									
	Date: 2018-04-04									
	Test Engineer: 45574									
	Configuration: EUT / Adapter / Earphone, X-Position									
	Location: Chamber 3									
	Mode: LTE_16QAM Band 2 Harmonics, 15MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1857.5MHz									
	3715.00	-4.8	V	3.0	40.9	1.0	-44.6	-13.0	-31.6	
	5572.50	-4.9	V	3.0	40.0	1.0	-43.9	-13.0	-30.9	
	7430.00	-9.0	V	3.0	40.0	1.0	-48.1	-13.0	-35.1	
	3715.00	4.6	H	3.0	40.9	1.0	-35.2	-13.0	-22.2	
	5572.50	-5.3	H	3.0	40.0	1.0	-44.4	-13.0	-31.4	
	7430.00	-9.3	H	3.0	40.0	1.0	-48.4	-13.0	-35.4	
	Mid Ch, 1880MHz									
	3760.00	-2.5	V	3.0	40.8	1.0	-42.3	-13.0	-29.3	
	5640.00	-7.3	V	3.0	40.0	1.0	-46.4	-13.0	-33.4	
7520.00	-8.6	V	3.0	40.0	1.0	-47.7	-13.0	-34.7		
3760.00	4.1	H	3.0	40.8	1.0	-35.8	-13.0	-22.8		
5640.00	-7.5	H	3.0	40.0	1.0	-46.5	-13.0	-33.5		
7520.00	-9.2	H	3.0	40.0	1.0	-48.3	-13.0	-35.3		
High Ch, 1902.5MHz										
3805.00	-3.7	V	3.0	40.8	1.0	-43.5	-13.0	-30.5		
5707.50	-6.6	V	3.0	40.0	1.0	-45.6	-13.0	-32.6		
7610.00	-8.7	V	3.0	40.0	1.0	-47.7	-13.0	-34.7		
3805.00	1.4	H	3.0	40.8	1.0	-38.4	-13.0	-25.4		
5707.50	-8.1	H	3.0	40.0	1.0	-47.1	-13.0	-34.1		
7610.00	-10.0	H	3.0	40.0	1.0	-49.0	-13.0	-36.0		

LTE Band 2 10MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788397760									
	Date: 2018-04-04									
	Test Engineer: 45574									
	Configuration: EUT / Adapter / Earphone, X-Position									
	Location: Chamber 3									
	Mode: LTE_QPSK Band 2 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1855MHz									
	3710.00	-4.3	V	3.0	40.9	1.0	-44.2	-13.0	-31.2	
	5565.00	-4.9	V	3.0	40.0	1.0	-43.9	-13.0	-30.9	
	7420.00	-7.5	V	3.0	40.0	1.0	-46.5	-13.0	-33.5	
	3710.00	6.1	H	3.0	40.9	1.0	-33.8	-13.0	-20.8	
	5565.00	-4.7	H	3.0	40.0	1.0	-43.8	-13.0	-30.8	
	7420.00	-9.5	H	3.0	40.0	1.0	-48.5	-13.0	-35.5	
	Mid Ch, 1880MHz									
	3760.00	-1.9	V	3.0	40.8	1.0	-41.8	-13.0	-28.8	
	5640.00	-6.8	V	3.0	40.0	1.0	-45.9	-13.0	-32.9	
	7520.00	-7.7	V	3.0	40.0	1.0	-46.7	-13.0	-33.7	
	3760.00	4.7	H	3.0	40.8	1.0	-35.1	-13.0	-22.1	
	5640.00	-6.9	H	3.0	40.0	1.0	-46.0	-13.0	-33.0	
	7520.00	-9.9	H	3.0	40.0	1.0	-48.9	-13.0	-35.9	
	High Ch, 1905MHz									
3810.00	-3.1	V	3.0	40.8	1.0	-42.9	-13.0	-29.9		
5715.00	-6.7	V	3.0	40.0	1.0	-45.7	-13.0	-32.7		
7620.00	-7.9	V	3.0	40.0	1.0	-47.0	-13.0	-34.0		
3810.00	2.2	H	3.0	40.8	1.0	-37.6	-13.0	-24.6		
5715.00	-9.6	H	3.0	40.0	1.0	-48.6	-13.0	-35.6		
7620.00	-9.8	H	3.0	40.0	1.0	-48.9	-13.0	-35.9		
LTE Band 2 10MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788397760									
	Date: 2018-04-04									
	Test Engineer: 45574									
	Configuration: EUT / Adapter / Earphone, X-Position									
	Location: Chamber 3									
	Mode: LTE_16QAM Band 2 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1855MHz									
	3710.00	-3.9	V	3.0	40.9	1.0	-43.7	-13.0	-30.7	
	5565.00	-4.7	V	3.0	40.0	1.0	-43.7	-13.0	-30.7	
	7420.00	-8.1	V	3.0	40.0	1.0	-47.1	-13.0	-34.1	
	3710.00	5.6	H	3.0	40.9	1.0	-34.2	-13.0	-21.2	
	5565.00	-5.1	H	3.0	40.0	1.0	-44.2	-13.0	-31.2	
	7420.00	-9.9	H	3.0	40.0	1.0	-48.9	-13.0	-35.9	
	Mid Ch, 1880MHz									
	3760.00	-2.6	V	3.0	40.8	1.0	-42.4	-13.0	-29.4	
	5640.00	-6.7	V	3.0	40.0	1.0	-45.7	-13.0	-32.7	
	7520.00	-8.6	V	3.0	40.0	1.0	-47.6	-13.0	-34.6	
	3760.00	4.0	H	3.0	40.8	1.0	-35.9	-13.0	-22.9	
	5640.00	-7.3	H	3.0	40.0	1.0	-46.3	-13.0	-33.3	
	7520.00	-10.0	H	3.0	40.0	1.0	-49.1	-13.0	-36.1	
	High Ch, 1905MHz									
3810.00	-2.2	V	3.0	40.8	1.0	-42.0	-13.0	-29.0		
5715.00	-6.5	V	3.0	40.0	1.0	-45.5	-13.0	-32.5		
7620.00	-7.3	V	3.0	40.0	1.0	-46.3	-13.0	-33.3		
3810.00	2.7	H	3.0	40.8	1.0	-37.1	-13.0	-24.1		
5715.00	-10.2	H	3.0	40.0	1.0	-49.2	-13.0	-36.2		
7620.00	-10.0	H	3.0	40.0	1.0	-49.1	-13.0	-36.1		

LTE Band 2 5MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397760 Date: 2018-04-04 Test Engineer: 45574 Configuration: EUT / Adapter / Earphone, X-Position Location: Chamber 3 Mode: LTE_QPSK Band 2 Harmonics, 5MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1852.5MHz									
	3705.00	-3.6	V	3.0	40.9	1.0	-43.4	-13.0	-30.4	
	5557.50	-5.4	V	3.0	40.1	1.0	-44.5	-13.0	-31.5	
	7410.00	-6.8	V	3.0	40.0	1.0	-45.8	-13.0	-32.8	
	3705.00	6.4	H	3.0	40.9	1.0	-33.5	-13.0	-20.5	
	5557.50	-5.2	H	3.0	40.1	1.0	-44.3	-13.0	-31.3	
	7410.00	-9.6	H	3.0	40.0	1.0	-48.6	-13.0	-35.6	
	Mid Ch, 1880MHz									
	3760.00	-2.0	V	3.0	40.8	1.0	-41.9	-13.0	-28.9	
	5640.00	-6.6	V	3.0	40.0	1.0	-45.7	-13.0	-32.7	
	7520.00	-7.9	V	3.0	40.0	1.0	-46.9	-13.0	-33.9	
	3760.00	4.6	H	3.0	40.8	1.0	-35.2	-13.0	-22.2	
	5640.00	-6.9	H	3.0	40.0	1.0	-45.9	-13.0	-32.9	
	7520.00	-9.9	H	3.0	40.0	1.0	-49.0	-13.0	-36.0	
	High Ch, 1907.5MHz									
	3815.00	-3.6	V	3.0	40.8	1.0	-43.4	-13.0	-30.4	
	5722.50	-8.3	V	3.0	40.0	1.0	-47.4	-13.0	-34.4	
	7630.00	-7.8	V	3.0	40.0	1.0	-46.9	-13.0	-33.9	
	3815.00	1.6	H	3.0	40.8	1.0	-38.2	-13.0	-25.2	
	5722.50	-9.5	H	3.0	40.0	1.0	-48.5	-13.0	-35.5	
	7630.00	-8.9	H	3.0	40.0	1.0	-47.9	-13.0	-34.9	
	LTE Band 2 5MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement								
Company: Samsung Project #: 4788397760 Date: 2018-04-04 Test Engineer: 45574 Configuration: EUT / Adapter / Earphone, X-Position Location: Chamber 3 Mode: LTE_16QAM Band 2 Harmonics, 5MHz Bandwidth										
f MHz		SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 1852.5MHz										
3705.00		-3.4	V	3.0	40.9	1.0	-43.3	-13.0	-30.3	
5557.50		-5.4	V	3.0	40.1	1.0	-44.5	-13.0	-31.5	
7410.00		-7.5	V	3.0	40.0	1.0	-46.5	-13.0	-33.5	
3705.00		6.5	H	3.0	40.9	1.0	-33.3	-13.0	-20.3	
5557.50		-6.1	H	3.0	40.1	1.0	-45.1	-13.0	-32.1	
7410.00		-9.7	H	3.0	40.0	1.0	-48.8	-13.0	-35.8	
Mid Ch, 1880MHz										
3760.00		-2.2	V	3.0	40.8	1.0	-42.0	-13.0	-29.0	
5640.00		-6.8	V	3.0	40.0	1.0	-45.9	-13.0	-32.9	
7520.00		-8.2	V	3.0	40.0	1.0	-47.2	-13.0	-34.2	
3760.00		4.5	H	3.0	40.8	1.0	-35.3	-13.0	-22.3	
5640.00		-7.5	H	3.0	40.0	1.0	-46.6	-13.0	-33.6	
7520.00		-9.5	H	3.0	40.0	1.0	-48.5	-13.0	-35.5	
High Ch, 1907.5MHz										
3815.00		-2.9	V	3.0	40.8	1.0	-42.7	-13.0	-29.7	
5722.50		-7.8	V	3.0	40.0	1.0	-46.8	-13.0	-33.8	
7630.00		-7.3	V	3.0	40.0	1.0	-46.3	-13.0	-33.3	
3815.00		1.7	H	3.0	40.8	1.0	-38.1	-13.0	-25.1	
5722.50		-10.7	H	3.0	40.0	1.0	-49.7	-13.0	-36.7	
7630.00		-9.1	H	3.0	40.0	1.0	-48.2	-13.0	-35.2	

LTE Band 2 3MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788397760									
	Date: 2018-04-04									
	Test Engineer: 45574									
	Configuration: EUT / Adapter / Earphone, X-Position									
	Location: Chamber 3									
	Mode: LTE_QPSK Band 2 Harmonics, 3MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1851.5MHz									
	3703.00	-2.8	V	3.0	40.9	1.0	-42.6	-13.0	-29.6	
	5554.50	-5.6	V	3.0	40.1	1.0	-44.6	-13.0	-31.6	
	7406.00	-7.2	V	3.0	40.0	1.0	-46.2	-13.0	-33.2	
	3703.00	6.6	H	3.0	40.9	1.0	-33.2	-13.0	-20.2	
	5554.50	-5.6	H	3.0	40.1	1.0	-44.6	-13.0	-31.6	
	7406.00	-9.7	H	3.0	40.0	1.0	-48.8	-13.0	-35.8	
	Mid Ch, 1880MHz									
	3760.00	-2.1	V	3.0	40.8	1.0	-42.0	-13.0	-29.0	
	5640.00	-7.0	V	3.0	40.0	1.0	-46.0	-13.0	-33.0	
7520.00	-7.7	V	3.0	40.0	1.0	-46.7	-13.0	-33.7		
3760.00	4.5	H	3.0	40.8	1.0	-35.4	-13.0	-22.4		
5640.00	-7.9	H	3.0	40.0	1.0	-46.9	-13.0	-33.9		
7520.00	-10.2	H	3.0	40.0	1.0	-49.2	-13.0	-36.2		
High Ch, 1908.5MHz										
3817.00	-4.1	V	3.0	40.8	1.0	-43.9	-13.0	-30.9		
5725.50	-8.2	V	3.0	40.0	1.0	-47.3	-13.0	-34.3		
7634.00	-6.7	V	3.0	40.0	1.0	-45.7	-13.0	-32.7		
3817.00	1.6	H	3.0	40.8	1.0	-38.2	-13.0	-25.2		
5725.50	-8.9	H	3.0	40.0	1.0	-47.9	-13.0	-34.9		
7634.00	-9.9	H	3.0	40.0	1.0	-48.9	-13.0	-35.9		
LTE Band 2 3MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788397760									
	Date: 2018-04-04									
	Test Engineer: 45574									
	Configuration: EUT / Adapter / Earphone, X-Position									
	Location: Chamber 3									
	Mode: LTE_16QAM Band 2 Harmonics, 3MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1851.5MHz									
	3703.00	-2.8	V	3.0	40.9	1.0	-42.7	-13.0	-29.7	
	5554.50	-5.9	V	3.0	40.1	1.0	-44.9	-13.0	-31.9	
	7406.00	-7.4	V	3.0	40.0	1.0	-46.5	-13.0	-33.5	
	3703.00	6.7	H	3.0	40.9	1.0	-33.2	-13.0	-20.2	
	5554.50	-5.7	H	3.0	40.1	1.0	-44.8	-13.0	-31.8	
	7406.00	-9.5	H	3.0	40.0	1.0	-48.6	-13.0	-35.6	
	Mid Ch, 1880MHz									
	3760.00	-2.5	V	3.0	40.8	1.0	-42.3	-13.0	-29.3	
	5640.00	-6.9	V	3.0	40.0	1.0	-46.0	-13.0	-33.0	
7520.00	-8.3	V	3.0	40.0	1.0	-47.3	-13.0	-34.3		
3760.00	4.6	H	3.0	40.8	1.0	-35.2	-13.0	-22.2		
5640.00	-8.4	H	3.0	40.0	1.0	-47.4	-13.0	-34.4		
7520.00	-9.8	H	3.0	40.0	1.0	-48.9	-13.0	-35.9		
High Ch, 1908.5MHz										
3817.00	-3.6	V	3.0	40.8	1.0	-43.4	-13.0	-30.4		
5725.50	-8.3	V	3.0	40.0	1.0	-47.3	-13.0	-34.3		
7634.00	-7.1	V	3.0	40.0	1.0	-46.1	-13.0	-33.1		
3817.00	1.4	H	3.0	40.8	1.0	-38.4	-13.0	-25.4		
5725.50	-9.2	H	3.0	40.0	1.0	-48.3	-13.0	-35.3		
7634.00	-9.8	H	3.0	40.0	1.0	-48.8	-13.0	-35.8		

LTE Band 2 1.4MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397760 Date: 2018-04-04 Test Engineer: 45574 Configuration: EUT / Adapter / Earphone, X-Position Location: Chamber 3 Mode: LTE_QPSK Band 2 Harmonics, 1.4MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1850.7MHz									
	3701.40	-3.1	V	3.0	40.9	1.0	-43.0	-13.0	-30.0	
	5552.10	-4.8	V	3.0	40.1	1.0	-43.9	-13.0	-30.9	
	7402.80	-6.4	V	3.0	40.0	1.0	-45.4	-13.0	-32.4	
	3701.40	6.7	H	3.0	40.9	1.0	-33.2	-13.0	-20.2	
	5552.10	-5.1	H	3.0	40.1	1.0	-44.1	-13.0	-31.1	
	7402.80	-9.2	H	3.0	40.0	1.0	-48.2	-13.0	-35.2	
	Mid Ch, 1880MHz									
	3760.00	-1.8	V	3.0	40.8	1.0	-41.6	-13.0	-28.6	
	5640.00	-6.2	V	3.0	40.0	1.0	-45.2	-13.0	-32.2	
	7520.00	-8.5	V	3.0	40.0	1.0	-47.5	-13.0	-34.5	
	3760.00	4.7	H	3.0	40.8	1.0	-35.1	-13.0	-22.1	
	5640.00	-6.2	H	3.0	40.0	1.0	-45.3	-13.0	-32.3	
	7520.00	-9.0	H	3.0	40.0	1.0	-48.1	-13.0	-35.1	
	High Ch, 1909.3MHz									
	3818.60	-4.2	V	3.0	40.8	1.0	-43.9	-13.0	-30.9	
	5727.90	-6.8	V	3.0	40.0	1.0	-45.8	-13.0	-32.8	
	7637.20	-6.9	V	3.0	40.0	1.0	-45.9	-13.0	-32.9	
	3818.60	1.3	H	3.0	40.8	1.0	-38.5	-13.0	-25.5	
	5727.90	-6.0	H	3.0	40.0	1.0	-45.0	-13.0	-32.0	
7637.20	-9.7	H	3.0	40.0	1.0	-48.7	-13.0	-35.7		
LTE Band 2 1.4MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397760 Date: 2018-04-04 Test Engineer: 45574 Configuration: EUT / Adapter / Earphone, X-Position Location: Chamber 3 Mode: LTE_16QAM Band 2 Harmonics, 1.4MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 1850.7MHz									
	3701.40	-2.1	V	3.0	40.9	1.0	-42.0	-13.0	-29.0	
	5552.10	-4.7	V	3.0	40.1	1.0	-43.7	-13.0	-30.7	
	7402.80	-6.9	V	3.0	40.0	1.0	-45.9	-13.0	-32.9	
	3701.40	7.8	H	3.0	40.9	1.0	-32.1	-13.0	-19.1	
	5552.10	-5.2	H	3.0	40.1	1.0	-44.3	-13.0	-31.3	
	7402.80	-9.8	H	3.0	40.0	1.0	-48.8	-13.0	-35.8	
	Mid Ch, 1880MHz									
	3760.00	-2.1	V	3.0	40.8	1.0	-41.9	-13.0	-28.9	
	5640.00	-5.8	V	3.0	40.0	1.0	-44.9	-13.0	-31.9	
	7520.00	-7.7	V	3.0	40.0	1.0	-46.7	-13.0	-33.7	
	3760.00	4.5	H	3.0	40.8	1.0	-35.3	-13.0	-22.3	
	5640.00	-6.8	H	3.0	40.0	1.0	-45.9	-13.0	-32.9	
	7520.00	-10.1	H	3.0	40.0	1.0	-49.2	-13.0	-36.2	
	High Ch, 1909.3MHz									
	3818.60	-4.7	V	3.0	40.8	1.0	-44.5	-13.0	-31.5	
	5727.90	-7.4	V	3.0	40.0	1.0	-46.4	-13.0	-33.4	
	7637.20	-7.1	V	3.0	40.0	1.0	-46.1	-13.0	-33.1	
	3818.60	1.3	H	3.0	40.8	1.0	-38.5	-13.0	-25.5	
	5727.90	-8.0	H	3.0	40.0	1.0	-47.0	-13.0	-34.0	
7637.20	-9.3	H	3.0	40.0	1.0	-48.4	-13.0	-35.4		

LTE Band 12

LTE Band 12 10MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																				
	Company: Samsung																																																																																																																																																																																																																																				
	Project #: 4788397760																																																																																																																																																																																																																																				
	Date: 2018-04-04																																																																																																																																																																																																																																				
	Test Engineer: 45585																																																																																																																																																																																																																																				
	Configuration: EUT / Adapter / Earphone, Z-Position																																																																																																																																																																																																																																				
	Location: Chamber 3																																																																																																																																																																																																																																				
	Mode: LTE_QPSK Band 12 Harmonics, 10MHz Bandwidth																																																																																																																																																																																																																																				
	<table><tr><th>f MHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, 704MHz</td></tr><tr><td>1408.00</td><td>-11.4</td><td>V</td><td>3.0</td><td>41.7</td><td>1.0</td><td>-52.0</td><td>-13.0</td><td>-39.0</td><td></td></tr><tr><td>2112.00</td><td>-16.8</td><td>V</td><td>3.0</td><td>42.0</td><td>1.0</td><td>-57.8</td><td>-13.0</td><td>-44.8</td><td></td></tr><tr><td>2816.00</td><td>-17.0</td><td>V</td><td>3.0</td><td>41.5</td><td>1.0</td><td>-57.5</td><td>-13.0</td><td>-44.5</td><td></td></tr><tr><td>1408.00</td><td>-12.5</td><td>H</td><td>3.0</td><td>41.7</td><td>1.0</td><td>-53.1</td><td>-13.0</td><td>-40.1</td><td></td></tr><tr><td>2112.00</td><td>-15.7</td><td>H</td><td>3.0</td><td>42.0</td><td>1.0</td><td>-56.6</td><td>-13.0</td><td>-43.6</td><td></td></tr><tr><td>2816.00</td><td>-17.3</td><td>H</td><td>3.0</td><td>41.5</td><td>1.0</td><td>-57.7</td><td>-13.0</td><td>-44.7</td><td></td></tr><tr><td colspan="10">Mid Ch, 707.5MHz</td></tr><tr><td>1415.00</td><td>-13.7</td><td>V</td><td>3.0</td><td>41.7</td><td>1.0</td><td>-54.4</td><td>-13.0</td><td>-41.4</td><td></td></tr><tr><td>2122.50</td><td>-17.3</td><td>V</td><td>3.0</td><td>41.9</td><td>1.0</td><td>-58.2</td><td>-13.0</td><td>-45.2</td><td></td></tr><tr><td>2830.00</td><td>-16.5</td><td>V</td><td>3.0</td><td>41.4</td><td>1.0</td><td>-57.0</td><td>-13.0</td><td>-44.0</td><td></td></tr><tr><td>1415.00</td><td>-15.0</td><td>H</td><td>3.0</td><td>41.7</td><td>1.0</td><td>-55.6</td><td>-13.0</td><td>-42.6</td><td></td></tr><tr><td>2122.50</td><td>-17.3</td><td>H</td><td>3.0</td><td>41.9</td><td>1.0</td><td>-58.2</td><td>-13.0</td><td>-45.2</td><td></td></tr><tr><td>2830.00</td><td>-17.0</td><td>H</td><td>3.0</td><td>41.4</td><td>1.0</td><td>-57.4</td><td>-13.0</td><td>-44.4</td><td></td></tr><tr><td colspan="10">High Ch, 711MHz</td></tr><tr><td>1422.00</td><td>-9.9</td><td>V</td><td>3.0</td><td>41.7</td><td>1.0</td><td>-50.5</td><td>-13.0</td><td>-37.5</td><td></td></tr><tr><td>2133.00</td><td>-15.2</td><td>V</td><td>3.0</td><td>41.9</td><td>1.0</td><td>-56.1</td><td>-13.0</td><td>-43.1</td><td></td></tr><tr><td>2844.00</td><td>-16.8</td><td>V</td><td>3.0</td><td>41.4</td><td>1.0</td><td>-57.2</td><td>-13.0</td><td>-44.2</td><td></td></tr><tr><td>1422.00</td><td>-11.8</td><td>H</td><td>3.0</td><td>41.7</td><td>1.0</td><td>-52.5</td><td>-13.0</td><td>-39.5</td><td></td></tr><tr><td>2133.00</td><td>-15.5</td><td>H</td><td>3.0</td><td>41.9</td><td>1.0</td><td>-56.4</td><td>-13.0</td><td>-43.4</td><td></td></tr><tr><td>2844.00</td><td>-17.2</td><td>H</td><td>3.0</td><td>41.4</td><td>1.0</td><td>-57.6</td><td>-13.0</td><td>-44.6</td><td></td></tr></table>										f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 704MHz										1408.00	-11.4	V	3.0	41.7	1.0	-52.0	-13.0	-39.0		2112.00	-16.8	V	3.0	42.0	1.0	-57.8	-13.0	-44.8		2816.00	-17.0	V	3.0	41.5	1.0	-57.5	-13.0	-44.5		1408.00	-12.5	H	3.0	41.7	1.0	-53.1	-13.0	-40.1		2112.00	-15.7	H	3.0	42.0	1.0	-56.6	-13.0	-43.6		2816.00	-17.3	H	3.0	41.5	1.0	-57.7	-13.0	-44.7		Mid Ch, 707.5MHz										1415.00	-13.7	V	3.0	41.7	1.0	-54.4	-13.0	-41.4		2122.50	-17.3	V	3.0	41.9	1.0	-58.2	-13.0	-45.2		2830.00	-16.5	V	3.0	41.4	1.0	-57.0	-13.0	-44.0		1415.00	-15.0	H	3.0	41.7	1.0	-55.6	-13.0	-42.6		2122.50	-17.3	H	3.0	41.9	1.0	-58.2	-13.0	-45.2		2830.00	-17.0	H	3.0	41.4	1.0	-57.4	-13.0	-44.4		High Ch, 711MHz										1422.00	-9.9	V	3.0	41.7	1.0	-50.5	-13.0	-37.5		2133.00	-15.2	V	3.0	41.9	1.0	-56.1	-13.0	-43.1		2844.00	-16.8	V	3.0	41.4	1.0	-57.2	-13.0	-44.2		1422.00	-11.8	H	3.0	41.7	1.0	-52.5	-13.0	-39.5		2133.00	-15.5	H	3.0	41.9	1.0	-56.4	-13.0	-43.4		2844.00	-17.2	H	3.0	41.4	1.0	-57.6	-13.0	-44.6
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																												
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Mid Ch, 707.5MHz																																																																																																																																																																																																																																					
1415.00	-13.7	V	3.0	41.7	1.0	-54.4	-13.0	-41.4																																																																																																																																																																																																																													
2122.50	-17.3	V	3.0	41.9	1.0	-58.2	-13.0	-45.2																																																																																																																																																																																																																													
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High Ch, 711MHz																																																																																																																																																																																																																																					
1422.00	-9.9	V	3.0	41.7	1.0	-50.5	-13.0	-37.5																																																																																																																																																																																																																													
2133.00	-15.2	V	3.0	41.9	1.0	-56.1	-13.0	-43.1																																																																																																																																																																																																																													
2844.00	-16.8	V	3.0	41.4	1.0	-57.2	-13.0	-44.2																																																																																																																																																																																																																													
1422.00	-11.8	H	3.0	41.7	1.0	-52.5	-13.0	-39.5																																																																																																																																																																																																																													
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LTE Band 12 10MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement																																																																																																																																																																																																																																				
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	Location: Chamber 3																																																																																																																																																																																																																																				
	Mode: LTE_16QAM Band 12 Harmonics, 10MHz Bandwidth																																																																																																																																																																																																																																				
	<table><tr><th>f MHz</th><th>SG reading (dBm)</th><th>Ant. Pol. (H/V)</th><th>Distance (m)</th><th>Preamp (dB)</th><th>Filter (dB)</th><th>EIRP (dBm)</th><th>Limit (dBm)</th><th>Delta (dB)</th><th>Notes</th></tr><tr><td colspan="10">Low Ch, 704MHz</td></tr><tr><td>1408.00</td><td>-12.0</td><td>V</td><td>3.0</td><td>41.7</td><td>1.0</td><td>-52.7</td><td>-13.0</td><td>-39.7</td><td></td></tr><tr><td>2112.00</td><td>-16.9</td><td>V</td><td>3.0</td><td>42.0</td><td>1.0</td><td>-57.9</td><td>-13.0</td><td>-44.9</td><td></td></tr><tr><td>2816.00</td><td>-17.1</td><td>V</td><td>3.0</td><td>41.5</td><td>1.0</td><td>-57.6</td><td>-13.0</td><td>-44.6</td><td></td></tr><tr><td>1408.00</td><td>-12.9</td><td>H</td><td>3.0</td><td>41.7</td><td>1.0</td><td>-53.6</td><td>-13.0</td><td>-40.6</td><td></td></tr><tr><td>2112.00</td><td>-16.7</td><td>H</td><td>3.0</td><td>42.0</td><td>1.0</td><td>-57.7</td><td>-13.0</td><td>-44.7</td><td></td></tr><tr><td>2816.00</td><td>-17.2</td><td>H</td><td>3.0</td><td>41.5</td><td>1.0</td><td>-57.6</td><td>-13.0</td><td>-44.6</td><td></td></tr><tr><td colspan="10">Mid Ch, 707.5MHz</td></tr><tr><td>1415.00</td><td>-14.8</td><td>V</td><td>3.0</td><td>41.7</td><td>1.0</td><td>-55.4</td><td>-13.0</td><td>-42.4</td><td></td></tr><tr><td>2122.50</td><td>-17.5</td><td>V</td><td>3.0</td><td>41.9</td><td>1.0</td><td>-58.5</td><td>-13.0</td><td>-45.5</td><td></td></tr><tr><td>2830.00</td><td>-17.4</td><td>V</td><td>3.0</td><td>41.4</td><td>1.0</td><td>-57.8</td><td>-13.0</td><td>-44.8</td><td></td></tr><tr><td>1415.00</td><td>-16.0</td><td>H</td><td>3.0</td><td>41.7</td><td>1.0</td><td>-56.7</td><td>-13.0</td><td>-43.7</td><td></td></tr><tr><td>2122.50</td><td>-17.7</td><td>H</td><td>3.0</td><td>41.9</td><td>1.0</td><td>-58.6</td><td>-13.0</td><td>-45.6</td><td></td></tr><tr><td>2830.00</td><td>-17.0</td><td>H</td><td>3.0</td><td>41.4</td><td>1.0</td><td>-57.4</td><td>-13.0</td><td>-44.4</td><td></td></tr><tr><td colspan="10">High Ch, 711MHz</td></tr><tr><td>1422.00</td><td>-10.7</td><td>V</td><td>3.0</td><td>41.7</td><td>1.0</td><td>-51.4</td><td>-13.0</td><td>-38.4</td><td></td></tr><tr><td>2133.00</td><td>-15.4</td><td>V</td><td>3.0</td><td>41.9</td><td>1.0</td><td>-56.3</td><td>-13.0</td><td>-43.3</td><td></td></tr><tr><td>2844.00</td><td>-16.6</td><td>V</td><td>3.0</td><td>41.4</td><td>1.0</td><td>-57.1</td><td>-13.0</td><td>-44.1</td><td></td></tr><tr><td>1422.00</td><td>-12.5</td><td>H</td><td>3.0</td><td>41.7</td><td>1.0</td><td>-53.2</td><td>-13.0</td><td>-40.2</td><td></td></tr><tr><td>2133.00</td><td>-15.3</td><td>H</td><td>3.0</td><td>41.9</td><td>1.0</td><td>-56.3</td><td>-13.0</td><td>-43.3</td><td></td></tr><tr><td>2844.00</td><td>-17.4</td><td>H</td><td>3.0</td><td>41.4</td><td>1.0</td><td>-57.8</td><td>-13.0</td><td>-44.8</td><td></td></tr></table>										f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	Low Ch, 704MHz										1408.00	-12.0	V	3.0	41.7	1.0	-52.7	-13.0	-39.7		2112.00	-16.9	V	3.0	42.0	1.0	-57.9	-13.0	-44.9		2816.00	-17.1	V	3.0	41.5	1.0	-57.6	-13.0	-44.6		1408.00	-12.9	H	3.0	41.7	1.0	-53.6	-13.0	-40.6		2112.00	-16.7	H	3.0	42.0	1.0	-57.7	-13.0	-44.7		2816.00	-17.2	H	3.0	41.5	1.0	-57.6	-13.0	-44.6		Mid Ch, 707.5MHz										1415.00	-14.8	V	3.0	41.7	1.0	-55.4	-13.0	-42.4		2122.50	-17.5	V	3.0	41.9	1.0	-58.5	-13.0	-45.5		2830.00	-17.4	V	3.0	41.4	1.0	-57.8	-13.0	-44.8		1415.00	-16.0	H	3.0	41.7	1.0	-56.7	-13.0	-43.7		2122.50	-17.7	H	3.0	41.9	1.0	-58.6	-13.0	-45.6		2830.00	-17.0	H	3.0	41.4	1.0	-57.4	-13.0	-44.4		High Ch, 711MHz										1422.00	-10.7	V	3.0	41.7	1.0	-51.4	-13.0	-38.4		2133.00	-15.4	V	3.0	41.9	1.0	-56.3	-13.0	-43.3		2844.00	-16.6	V	3.0	41.4	1.0	-57.1	-13.0	-44.1		1422.00	-12.5	H	3.0	41.7	1.0	-53.2	-13.0	-40.2		2133.00	-15.3	H	3.0	41.9	1.0	-56.3	-13.0	-43.3		2844.00	-17.4	H	3.0	41.4	1.0	-57.8	-13.0	-44.8
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes																																																																																																																																																																																																																												
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2816.00	-17.1	V	3.0	41.5	1.0	-57.6	-13.0	-44.6																																																																																																																																																																																																																													
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High Ch, 711MHz																																																																																																																																																																																																																																					
1422.00	-10.7	V	3.0	41.7	1.0	-51.4	-13.0	-38.4																																																																																																																																																																																																																													
2133.00	-15.4	V	3.0	41.9	1.0	-56.3	-13.0	-43.3																																																																																																																																																																																																																													
2844.00	-16.6	V	3.0	41.4	1.0	-57.1	-13.0	-44.1																																																																																																																																																																																																																													
1422.00	-12.5	H	3.0	41.7	1.0	-53.2	-13.0	-40.2																																																																																																																																																																																																																													
2133.00	-15.3	H	3.0	41.9	1.0	-56.3	-13.0	-43.3																																																																																																																																																																																																																													
2844.00	-17.4	H	3.0	41.4	1.0	-57.8	-13.0	-44.8																																																																																																																																																																																																																													

LTE Band 12 5MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788397760									
	Date: 2018-04-04									
	Test Engineer: 45585									
	Configuration: EUT / Adapter / Earphone, Z-Position									
	Location: Chamber 3									
	Mode: LTE_QPSK Band 12 Harmonics, 5MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 701.5MHz									
	1403.00	-10.5	V	3.0	41.7	1.0	-51.2	-13.0	-38.2	
	2104.50	-14.3	V	3.0	42.0	1.0	-55.3	-13.0	-42.3	
	2806.00	-16.7	V	3.0	41.5	1.0	-57.2	-13.0	-44.2	
	1403.00	-21.2	H	3.0	41.7	1.0	-61.9	-13.0	-48.9	
	2104.50	-13.9	H	3.0	42.0	1.0	-54.8	-13.0	-41.8	
	2806.00	-16.9	H	3.0	41.5	1.0	-57.4	-13.0	-44.4	
	Mid Ch, 707.5MHz									
	1415.00	-13.7	V	3.0	41.7	1.0	-54.3	-13.0	-41.3	
	2122.50	-17.2	V	3.0	41.9	1.0	-58.2	-13.0	-45.2	
	2830.00	-16.8	V	3.0	41.4	1.0	-57.2	-13.0	-44.2	
	1415.00	-14.5	H	3.0	41.7	1.0	-55.2	-13.0	-42.2	
	2122.50	-17.6	H	3.0	41.9	1.0	-58.5	-13.0	-45.5	
	2830.00	-16.7	H	3.0	41.4	1.0	-57.1	-13.0	-44.1	
	High Ch, 713.5MHz									
	1427.00	-10.5	V	3.0	41.7	1.0	-51.1	-13.0	-38.1	
	2140.50	-16.0	V	3.0	41.9	1.0	-56.9	-13.0	-43.9	
2854.00	-17.0	V	3.0	41.4	1.0	-57.4	-13.0	-44.4		
1427.00	-11.9	H	3.0	41.7	1.0	-52.6	-13.0	-39.6		
2140.50	-15.9	H	3.0	41.9	1.0	-56.8	-13.0	-43.8		
2854.00	-17.2	H	3.0	41.4	1.0	-57.6	-13.0	-44.6		

LTE Band 12 3MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397760 Date: 2018-04-04 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_QPSK Band 12 Harmonics, 3MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 700.5MHz									
	1401.00	-9.1	V	3.0	41.7	1.0	-49.7	-13.0	-36.7	
	2101.50	-14.1	V	3.0	42.0	1.0	-55.1	-13.0	-42.1	
	2802.00	-16.3	V	3.0	41.5	1.0	-56.8	-13.0	-43.8	
	1401.00	-10.4	H	3.0	41.7	1.0	-51.1	-13.0	-38.1	
	2101.50	-14.6	H	3.0	42.0	1.0	-55.5	-13.0	-42.5	
	2802.00	-17.3	H	3.0	41.5	1.0	-57.7	-13.0	-44.7	
	Mid Ch, 707.5MHz									
	1415.00	-13.5	V	3.0	41.7	1.0	-54.1	-13.0	-41.1	
	2122.50	-17.3	V	3.0	41.9	1.0	-58.3	-13.0	-45.3	
	2830.00	-16.3	V	3.0	41.4	1.0	-56.7	-13.0	-43.7	
	1415.00	-15.0	H	3.0	41.7	1.0	-55.6	-13.0	-42.6	
	2122.50	-17.3	H	3.0	41.9	1.0	-58.2	-13.0	-45.2	
	2830.00	-16.6	H	3.0	41.4	1.0	-57.1	-13.0	-44.1	
	High Ch, 714.5MHz									
	1429.00	-13.4	V	3.0	41.7	1.0	-54.1	-13.0	-41.1	
	2143.50	-16.0	V	3.0	41.9	1.0	-56.9	-13.0	-43.9	
	2858.00	-16.9	V	3.0	41.4	1.0	-57.3	-13.0	-44.3	
	1429.00	-14.8	H	3.0	41.7	1.0	-55.4	-13.0	-42.4	
	2143.50	-16.7	H	3.0	41.9	1.0	-57.6	-13.0	-44.6	
	2858.00	-17.1	H	3.0	41.4	1.0	-57.5	-13.0	-44.5	
	LTE Band 12 3MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement								
Company: Samsung Project #: 4788397760 Date: 2018-04-04 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_16QAM Band 12 Harmonics, 3MHz Bandwidth										
f MHz		SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch, 700.5MHz										
1401.00		-8.4	V	3.0	41.7	1.0	-49.1	-13.0	-36.1	
2101.50		-13.6	V	3.0	42.0	1.0	-54.6	-13.0	-41.6	
2802.00		-16.6	V	3.0	41.5	1.0	-57.0	-13.0	-44.0	
1401.00		-10.2	H	3.0	41.7	1.0	-50.9	-13.0	-37.9	
2101.50		-14.3	H	3.0	42.0	1.0	-55.2	-13.0	-42.2	
2802.00		-16.8	H	3.0	41.5	1.0	-57.3	-13.0	-44.3	
Mid Ch, 707.5MHz										
1415.00		-13.6	V	3.0	41.7	1.0	-54.3	-13.0	-41.3	
2122.50		-17.0	V	3.0	41.9	1.0	-57.9	-13.0	-44.9	
2830.00		-16.9	V	3.0	41.4	1.0	-57.3	-13.0	-44.3	
1415.00		-15.5	H	3.0	41.7	1.0	-56.2	-13.0	-43.2	
2122.50		-17.6	H	3.0	41.9	1.0	-58.6	-13.0	-45.6	
2830.00		-16.9	H	3.0	41.4	1.0	-57.3	-13.0	-44.3	
High Ch, 714.5MHz										
1429.00		-16.7	V	3.0	41.7	1.0	-57.4	-13.0	-44.4	
2143.50		-15.6	V	3.0	41.9	1.0	-56.5	-13.0	-43.5	
2858.00		-17.0	V	3.0	41.4	1.0	-57.4	-13.0	-44.4	
1429.00		-16.8	H	3.0	41.7	1.0	-57.5	-13.0	-44.5	
2143.50		-17.1	H	3.0	41.9	1.0	-58.0	-13.0	-45.0	
2858.00		-17.2	H	3.0	41.4	1.0	-57.7	-13.0	-44.7	

LTE Band 12 1.4MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788397760									
	Date: 2018-04-04									
	Test Engineer: 45585									
	Configuration: EUT / Adapter / Earphone, Z-Position									
	Location: Chamber 3									
	Mode: LTE_QPSK Band 12 Harmonics, 1.4MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 699.7MHz									
	1399.40	-14.4	V	3.0	41.7	1.0	-55.1	-13.0	-42.1	
	2099.10	-13.4	V	3.0	42.0	1.0	-54.4	-13.0	-41.4	
	2798.80	-16.4	V	3.0	41.5	1.0	-56.9	-13.0	-43.9	
	1399.40	-16.2	H	3.0	41.7	1.0	-56.9	-13.0	-43.9	
	2099.10	-14.1	H	3.0	42.0	1.0	-55.1	-13.0	-42.1	
	2798.80	-16.7	H	3.0	41.5	1.0	-57.2	-13.0	-44.2	
	Mid Ch, 707.5MHz									
	1415.00	-13.4	V	3.0	41.7	1.0	-54.0	-13.0	-41.0	
	2122.50	-17.1	V	3.0	41.9	1.0	-58.0	-13.0	-45.0	
	2830.00	-16.8	V	3.0	41.4	1.0	-57.2	-13.0	-44.2	
	1415.00	-15.3	H	3.0	41.7	1.0	-56.0	-13.0	-43.0	
	2122.50	-17.3	H	3.0	41.9	1.0	-58.2	-13.0	-45.2	
	2830.00	-17.4	H	3.0	41.4	1.0	-57.8	-13.0	-44.8	
	High Ch, 715.3MHz									
1430.60	-15.5	V	3.0	41.7	1.0	-56.2	-13.0	-43.2		
2145.90	-16.5	V	3.0	41.9	1.0	-57.4	-13.0	-44.4		
2861.20	-16.5	V	3.0	41.4	1.0	-56.9	-13.0	-43.9		
1430.60	-17.3	H	3.0	41.7	1.0	-58.0	-13.0	-45.0		
2145.90	-16.8	H	3.0	41.9	1.0	-57.8	-13.0	-44.8		
2861.20	-17.2	H	3.0	41.4	1.0	-57.6	-13.0	-44.6		

LTE Band 13

LTE Band 13 10MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397759 Date: 2018-04-07 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_QPSK Band 13 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 782MHz									
	1564.00	0.0	V	3.0	41.8	1.0	-40.8	-40.0	-0.8	
	2346.00	0.0	V	3.0	41.8	1.0	-40.8	-13.0	-27.8	
	3128.00	0.0	V	3.0	41.2	1.0	-40.2	-13.0	-27.2	
	1564.00	0.0	H	3.0	41.8	1.0	-40.8	-40.0	-0.8	
	2346.00	0.0	H	3.0	41.8	1.0	-40.8	-13.0	-27.8	
	3128.00	0.0	H	3.0	41.2	1.0	-40.2	-13.0	-27.2	
	Mid Ch, 782MHz									
	1564.00	-17.1	V	3.0	41.8	1.0	-57.8	-40.0	-17.8	
	2346.00	-16.7	V	3.0	41.8	1.0	-57.4	-13.0	-44.4	
	3128.00	-16.4	V	3.0	41.2	1.0	-56.6	-13.0	-43.6	
	1564.00	-19.1	H	3.0	41.8	1.0	-59.8	-40.0	-19.8	
	2346.00	-15.5	H	3.0	41.8	1.0	-56.3	-13.0	-43.3	
	3128.00	-16.9	H	3.0	41.2	1.0	-57.1	-13.0	-44.1	
	High Ch, 782MHz									
	1564.00	0.0	V	3.0	41.8	1.0	-40.8	-40.0	-0.8	
	2346.00	0.0	V	3.0	41.8	1.0	-40.8	-13.0	-27.8	
3128.00	0.0	V	3.0	41.2	1.0	-40.2	-13.0	-27.2		
1564.00	0.0	H	3.0	41.8	1.0	-40.8	-40.0	-0.8		
2346.00	0.0	H	3.0	41.8	1.0	-40.8	-13.0	-27.8		
3128.00	0.0	H	3.0	41.2	1.0	-40.2	-13.0	-27.2		
LTE Band 13 10MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397759 Date: 2018-04-07 Test Engineer: 45585 Configuration: EUT / Adapter / Earphone, Z-Position Location: Chamber 3 Mode: LTE_16QAM Band 13 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 782MHz									
	1564.00	0.0	V	3.0	41.8	1.0	-40.8	-40.0	-0.8	
	2346.00	0.0	V	3.0	41.8	1.0	-40.8	-13.0	-27.8	
	3128.00	0.0	V	3.0	41.2	1.0	-40.2	-13.0	-27.2	
	1564.00	0.0	H	3.0	41.8	1.0	-40.8	-40.0	-0.8	
	2346.00	0.0	H	3.0	41.8	1.0	-40.8	-13.0	-27.8	
	3128.00	0.0	H	3.0	41.2	1.0	-40.2	-13.0	-27.2	
	Mid Ch, 782MHz									
	1564.00	-16.5	V	3.0	41.8	1.0	-57.3	-40.0	-17.3	
	2346.00	-16.8	V	3.0	41.8	1.0	-57.6	-13.0	-44.6	
	3128.00	-16.4	V	3.0	41.2	1.0	-56.7	-13.0	-43.7	
	1564.00	-17.9	H	3.0	41.8	1.0	-58.7	-40.0	-18.7	
	2346.00	-14.6	H	3.0	41.8	1.0	-55.4	-13.0	-42.4	
	3128.00	-16.7	H	3.0	41.2	1.0	-57.0	-13.0	-44.0	
	High Ch, 782MHz									
	1564.00	0.0	V	3.0	41.8	1.0	-40.8	-40.0	-0.8	
	2346.00	0.0	V	3.0	41.8	1.0	-40.8	-13.0	-27.8	
3128.00	0.0	V	3.0	41.2	1.0	-40.2	-13.0	-27.2		
1564.00	0.0	H	3.0	41.8	1.0	-40.8	-40.0	-0.8		
2346.00	0.0	H	3.0	41.8	1.0	-40.8	-13.0	-27.8		
3128.00	0.0	H	3.0	41.2	1.0	-40.2	-13.0	-27.2		

LTE Band 13 5MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788397759									
	Date: 2018-04-07									
	Test Engineer: 45585									
	Configuration: EUT / Adapter / Earphone, Z-Position									
	Location: Chamber 3									
	Mode: LTE_QPSK Band 13 Harmonics, 5MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 779.5MHz									
	1559.00	-15.8	V	3.0	41.8	1.0	-56.5	-40.0	-16.5	
	2338.50	-14.6	V	3.0	41.8	1.0	-55.4	-13.0	-42.4	
	3118.00	-16.6	V	3.0	41.2	1.0	-56.8	-13.0	-43.8	
	1559.00	-16.8	H	3.0	41.8	1.0	-57.6	-40.0	-17.6	
	2338.50	-14.2	H	3.0	41.8	1.0	-54.9	-13.0	-41.9	
	3118.00	-16.9	H	3.0	41.2	1.0	-57.2	-13.0	-44.2	
	Mid Ch, 782MHz									
	1564.00	-17.6	V	3.0	41.8	1.0	-58.4	-40.0	-18.4	
	2346.00	-15.9	V	3.0	41.8	1.0	-56.6	-13.0	-43.6	
	3128.00	-16.5	V	3.0	41.2	1.0	-56.7	-13.0	-43.7	
	1564.00	-17.8	H	3.0	41.8	1.0	-58.6	-40.0	-18.6	
	2346.00	-14.6	H	3.0	41.8	1.0	-55.4	-13.0	-42.4	
	3128.00	-16.8	H	3.0	41.2	1.0	-57.0	-13.0	-44.0	
	High Ch, 784.5MHz									
1569.00	-16.7	V	3.0	41.8	1.0	-57.5	-40.0	-17.5		
2353.50	-17.4	V	3.0	41.8	1.0	-58.2	-13.0	-45.2		
3138.00	-16.5	V	3.0	41.2	1.0	-56.7	-13.0	-43.7		
1569.00	-18.2	H	3.0	41.8	1.0	-59.0	-40.0	-19.0		
2353.50	-17.0	H	3.0	41.8	1.0	-57.7	-13.0	-44.7		
3138.00	-16.2	H	3.0	41.2	1.0	-56.4	-13.0	-43.4		
LTE Band 13 5MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788397759									
	Date: 2018-04-07									
	Test Engineer: 45585									
	Configuration: EUT / Adapter / Earphone, Z-Position									
	Location: Chamber 3									
	Mode: LTE_16QAM Band 13 Harmonics, 5MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 779.5MHz									
	1559.00	-15.4	V	3.0	41.8	1.0	-56.2	-40.0	-16.2	
	2338.50	-15.3	V	3.0	41.8	1.0	-56.1	-13.0	-43.1	
	3118.00	-16.6	V	3.0	41.2	1.0	-56.8	-13.0	-43.8	
	1559.00	-16.5	H	3.0	41.8	1.0	-57.3	-40.0	-17.3	
	2338.50	-15.7	H	3.0	41.8	1.0	-56.5	-13.0	-43.5	
	3118.00	-16.8	H	3.0	41.2	1.0	-57.1	-13.0	-44.1	
	Mid Ch, 782MHz									
	1564.00	-17.7	V	3.0	41.8	1.0	-58.5	-40.0	-18.5	
	2346.00	-15.8	V	3.0	41.8	1.0	-56.6	-13.0	-43.6	
	3128.00	-16.6	V	3.0	41.2	1.0	-56.8	-13.0	-43.8	
	1564.00	-19.2	H	3.0	41.8	1.0	-60.0	-40.0	-20.0	
	2346.00	-16.0	H	3.0	41.8	1.0	-56.8	-13.0	-43.8	
	3128.00	-17.2	H	3.0	41.2	1.0	-57.5	-13.0	-44.5	
	High Ch, 784.5MHz									
1569.00	-17.3	V	3.0	41.8	1.0	-58.1	-40.0	-18.1		
2353.50	-16.1	V	3.0	41.8	1.0	-56.9	-13.0	-43.9		
3138.00	-16.4	V	3.0	41.2	1.0	-56.6	-13.0	-43.6		
1569.00	-18.4	H	3.0	41.8	1.0	-59.2	-40.0	-19.2		
2353.50	-17.5	H	3.0	41.8	1.0	-58.3	-13.0	-45.3		
3138.00	-16.8	H	3.0	41.2	1.0	-57.0	-13.0	-44.0		

LTE Band 41

LTE Band 41 20MHz QPSK		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788397759 Date: 2018-04-07 Test Engineer: 47989 Configuration: EUT / AC Adapter / Earphone, X-Position Location: Chamber 2 Mode: LTE_QPSK Band 41 Harmonics, 20MHz Bandwidth									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Ch, 2506MHz									
		5012.00	-9.0	V	3.0	39.8	1.0	-47.7	-25.0	-22.7	
		7518.00	1.4	V	3.0	39.4	1.0	-37.0	-25.0	-12.0	
		10024.00	-5.8	V	3.0	38.6	1.0	-43.4	-25.0	-18.4	
		12530.00	-5.0	V	3.0	39.0	1.0	-43.0	-25.0	-18.0	
		5012.00	-7.0	H	3.0	39.8	1.0	-45.7	-25.0	-20.7	
		7518.00	-4.0	H	3.0	39.4	1.0	-42.4	-25.0	-17.4	
		10024.00	-6.7	H	3.0	38.6	1.0	-44.3	-25.0	-19.3	
		12530.00	-5.8	H	3.0	39.0	1.0	-43.8	-25.0	-18.8	
		Mid Ch, 2593MHz									
		5186.00	-6.1	V	3.0	39.8	1.0	-44.9	-25.0	-19.9	
		7779.00	-5.7	V	3.0	39.3	1.0	-44.0	-25.0	-19.0	
		10372.00	-0.9	V	3.0	38.6	1.0	-38.5	-25.0	-13.5	
		12965.00	-5.0	V	3.0	39.4	1.0	-43.4	-25.0	-18.4	
		5186.00	-5.4	H	3.0	39.8	1.0	-44.3	-25.0	-19.3	
		7779.00	-4.9	H	3.0	39.3	1.0	-43.2	-25.0	-18.2	
		10372.00	-6.1	H	3.0	38.6	1.0	-43.7	-25.0	-18.7	
		12965.00	-4.1	H	3.0	39.4	1.0	-42.5	-25.0	-17.5	
		High Ch, 2680MHz									
		5360.00	-4.1	V	3.0	39.9	1.0	-43.0	-25.0	-18.0	
		8040.00	-9.1	V	3.0	39.2	1.0	-47.3	-25.0	-22.3	
		10720.00	-3.8	V	3.0	38.5	1.0	-41.3	-25.0	-16.3	
		13400.00	-5.0	V	3.0	39.8	1.0	-43.8	-25.0	-18.8	
		5360.00	-6.5	H	3.0	39.9	1.0	-45.4	-25.0	-20.4	
		8040.00	-7.1	H	3.0	39.2	1.0	-45.2	-25.0	-20.2	
		10720.00	-5.7	H	3.0	38.5	1.0	-43.3	-25.0	-18.3	
		13400.00	-4.7	H	3.0	39.8	1.0	-43.5	-25.0	-18.5	
LTE Band 41 20MHz 16QAM		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788397759 Date: 2018-04-07 Test Engineer: 47989 Configuration: EUT / AC Adapter / Earphone, X-Position Location: Chamber 2 Mode: LTE_16QAM Band 41 Harmonics, 20MHz Bandwidth									
		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Ch, 2506MHz									
		5012.00	-9.0	V	3.0	39.8	1.0	-47.8	-25.0	-22.8	
		7518.00	1.3	V	3.0	39.4	1.0	-37.1	-25.0	-12.1	
		10024.00	-7.0	V	3.0	38.6	1.0	-44.6	-25.0	-19.6	
		12530.00	-5.6	V	3.0	39.0	1.0	-43.6	-25.0	-18.6	
		5012.00	-7.5	H	3.0	39.8	1.0	-46.3	-25.0	-21.3	
		7518.00	-4.0	H	3.0	39.4	1.0	-42.4	-25.0	-17.4	
		10024.00	-7.5	H	3.0	38.6	1.0	-45.1	-25.0	-20.1	
		12530.00	-5.4	H	3.0	39.0	1.0	-43.4	-25.0	-18.4	
		Mid Ch, 2593MHz									
		5186.00	-6.5	V	3.0	39.8	1.0	-45.3	-25.0	-20.3	
		7779.00	-6.0	V	3.0	39.3	1.0	-44.3	-25.0	-19.3	
		10372.00	-1.1	V	3.0	38.6	1.0	-38.7	-25.0	-13.7	
		12965.00	-6.2	V	3.0	39.4	1.0	-44.6	-25.0	-19.6	
		5186.00	-6.1	H	3.0	39.8	1.0	-45.0	-25.0	-20.0	
		7779.00	-5.8	H	3.0	39.3	1.0	-44.1	-25.0	-19.1	
		10372.00	-6.6	H	3.0	38.6	1.0	-44.1	-25.0	-19.1	
		12965.00	-4.5	H	3.0	39.4	1.0	-42.9	-25.0	-17.9	
		High Ch, 2680MHz									
		5360.00	-4.3	V	3.0	39.9	1.0	-43.2	-25.0	-18.2	
		8040.00	-9.7	V	3.0	39.2	1.0	-47.8	-25.0	-22.8	
		10720.00	-4.0	V	3.0	38.5	1.0	-41.5	-25.0	-16.5	
		13400.00	-5.3	V	3.0	39.8	1.0	-44.1	-25.0	-19.1	
		5360.00	-6.9	H	3.0	39.9	1.0	-45.7	-25.0	-20.7	
		8040.00	-7.9	H	3.0	39.2	1.0	-46.0	-25.0	-21.0	
		10720.00	-6.0	H	3.0	38.5	1.0	-43.5	-25.0	-18.5	
		13400.00	-4.6	H	3.0	39.8	1.0	-43.4	-25.0	-18.4	

LTE Band 41 15MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397759 Date: 2018-04-06 Test Engineer: 47989 Configuration: EUT / AC Adapter / Earphone, X-Position Location: Chamber 2 Mode: LTE_QPSK Band 41 Harmonics, 15MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2503.5MHz									
	5007.00	-9.8	V	3.0	39.8	1.0	-48.5	-25.0	-23.5	
	7510.50	-9.1	V	3.0	39.4	1.0	-47.5	-25.0	-22.5	
	10014.00	-1.5	V	3.0	38.6	1.0	-39.1	-25.0	-14.1	
	12517.50	-6.2	V	3.0	39.0	1.0	-44.2	-25.0	-19.2	
	5007.00	-10.0	H	3.0	39.8	1.0	-48.8	-25.0	-23.8	
	7510.50	-8.5	H	3.0	39.4	1.0	-46.9	-25.0	-21.9	
	10014.00	-6.1	H	3.0	38.6	1.0	-43.7	-25.0	-18.7	
	12517.50	-6.6	H	3.0	39.0	1.0	-44.6	-25.0	-19.6	
	Mid Ch, 2593MHz									
	5186.00	-7.1	V	3.0	39.8	1.0	-45.9	-25.0	-20.9	
	7779.00	-8.2	V	3.0	39.3	1.0	-46.5	-25.0	-21.5	
	10372.00	-3.4	V	3.0	38.6	1.0	-40.9	-25.0	-15.9	
	12965.00	-3.2	V	3.0	39.4	1.0	-41.6	-25.0	-16.6	
	5186.00	-8.8	H	3.0	39.8	1.0	-47.6	-25.0	-22.6	
	7779.00	-7.0	H	3.0	39.3	1.0	-45.3	-25.0	-20.3	
	10372.00	-6.8	H	3.0	38.6	1.0	-44.4	-25.0	-19.4	
	12965.00	-4.7	H	3.0	39.4	1.0	-43.1	-25.0	-18.1	
	High Ch, 2682.5MHz									
	5365.00	-3.4	V	3.0	39.9	1.0	-42.3	-25.0	-17.3	
	8047.50	-10.0	V	3.0	39.2	1.0	-48.2	-25.0	-23.2	
	10730.00	-5.8	V	3.0	38.5	1.0	-43.4	-25.0	-18.4	
	13412.50	-5.0	V	3.0	39.8	1.0	-43.9	-25.0	-18.9	
	5365.00	-7.1	H	3.0	39.9	1.0	-46.0	-25.0	-21.0	
	8047.50	-10.1	H	3.0	39.2	1.0	-48.2	-25.0	-23.2	
	10730.00	-4.8	H	3.0	38.5	1.0	-42.3	-25.0	-17.3	
	13412.50	-4.3	H	3.0	39.8	1.0	-43.1	-25.0	-18.1	
LTE Band 41 15MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397759 Date: 2018-04-06 Test Engineer: 47989 Configuration: EUT / AC Adapter / Earphone, X-Position Location: Chamber 2 Mode: LTE_16QAM Band 41 Harmonics, 15MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2503.5MHz									
	5007.00	-10.7	V	3.0	39.8	1.0	-49.4	-25.0	-24.4	
	7510.50	-10.0	V	3.0	39.4	1.0	-48.4	-25.0	-23.4	
	10014.00	-2.5	V	3.0	38.6	1.0	-40.1	-25.0	-15.1	
	12517.50	-6.6	V	3.0	39.0	1.0	-44.6	-25.0	-19.6	
	5007.00	-10.7	H	3.0	39.8	1.0	-49.5	-25.0	-24.5	
	7510.50	-9.5	H	3.0	39.4	1.0	-47.9	-25.0	-22.9	
	10014.00	-6.9	H	3.0	38.6	1.0	-44.5	-25.0	-19.5	
	12517.50	-6.4	H	3.0	39.0	1.0	-44.4	-25.0	-19.4	
	Mid Ch, 2593MHz									
	5186.00	-7.8	V	3.0	39.8	1.0	-46.7	-25.0	-21.7	
	7779.00	-7.8	V	3.0	39.3	1.0	-46.1	-25.0	-21.1	
	10372.00	-4.2	V	3.0	38.6	1.0	-41.8	-25.0	-16.8	
	12965.00	-2.9	V	3.0	39.4	1.0	-41.3	-25.0	-16.3	
	5186.00	-9.7	H	3.0	39.8	1.0	-48.5	-25.0	-23.5	
	7779.00	-8.4	H	3.0	39.3	1.0	-46.7	-25.0	-21.7	
	10372.00	-7.0	H	3.0	38.6	1.0	-44.6	-25.0	-19.6	
	12965.00	-5.1	H	3.0	39.4	1.0	-43.4	-25.0	-18.4	
	High Ch, 2682.5MHz									
	5365.00	-4.8	V	3.0	39.9	1.0	-43.7	-25.0	-18.7	
	8047.50	-11.1	V	3.0	39.2	1.0	-49.3	-25.0	-24.3	
	10730.00	-5.8	V	3.0	38.5	1.0	-43.4	-25.0	-18.4	
	13412.50	-5.4	V	3.0	39.8	1.0	-44.2	-25.0	-19.2	
	5365.00	-8.9	H	3.0	39.9	1.0	-47.8	-25.0	-22.8	
	8047.50	-10.8	H	3.0	39.2	1.0	-49.0	-25.0	-24.0	
	10730.00	-6.5	H	3.0	38.5	1.0	-44.0	-25.0	-19.0	
	13412.50	-4.8	H	3.0	39.8	1.0	-43.6	-25.0	-18.6	

LTE Band 41 10MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788397759									
	Date: 2018-04-06									
	Test Engineer: 47989									
	Configuration: EUT / AC Adapter / Earphone, X-Position									
	Location: Chamber 2									
	Mode: LTE_QPSK Band 41 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2501MHz									
	5002.00	-6.8	V	3.0	39.8	1.0	-45.6	-25.0	-20.6	
	7503.00	-7.3	V	3.0	39.4	1.0	-45.7	-25.0	-20.7	
	10004.00	-1.6	V	3.0	38.6	1.0	-39.2	-25.0	-14.2	
	12505.00	-4.7	V	3.0	39.0	1.0	-42.6	-25.0	-17.6	
	5002.00	-8.2	H	3.0	39.8	1.0	-47.0	-25.0	-22.0	
	7503.00	-9.1	H	3.0	39.4	1.0	-47.5	-25.0	-22.5	
	10004.00	-7.8	H	3.0	38.6	1.0	-45.4	-25.0	-20.4	
	12505.00	-6.0	H	3.0	39.0	1.0	-43.9	-25.0	-18.9	
	Mid Ch, 2593MHz									
	5186.00	-8.0	V	3.0	39.8	1.0	-46.8	-25.0	-21.8	
	7779.00	-7.8	V	3.0	39.3	1.0	-46.1	-25.0	-21.1	
	10372.00	-2.4	V	3.0	38.6	1.0	-40.0	-25.0	-15.0	
	12965.00	-2.7	V	3.0	39.4	1.0	-41.1	-25.0	-16.1	
	5186.00	-5.4	H	3.0	39.8	1.0	-44.2	-25.0	-19.2	
	7779.00	-7.6	H	3.0	39.3	1.0	-45.9	-25.0	-20.9	
	10372.00	-8.6	H	3.0	38.6	1.0	-46.2	-25.0	-21.2	
	12965.00	-5.2	H	3.0	39.4	1.0	-43.6	-25.0	-18.6	
	High Ch, 2685MHz									
5370.00	-6.1	V	3.0	39.9	1.0	-44.9	-25.0	-19.9		
8055.00	-9.6	V	3.0	39.2	1.0	-47.8	-25.0	-22.8		
10740.00	-4.2	V	3.0	38.5	1.0	-41.8	-25.0	-16.8		
13425.00	-4.8	V	3.0	39.8	1.0	-43.6	-25.0	-18.6		
5370.00	-3.9	H	3.0	39.9	1.0	-42.8	-25.0	-17.8		
8055.00	-9.4	H	3.0	39.2	1.0	-47.5	-25.0	-22.5		
10740.00	-6.4	H	3.0	38.5	1.0	-44.0	-25.0	-19.0		
13425.00	0.0	H	3.0	39.8	1.0	-38.8	-25.0	-13.8		
LTE Band 41 10MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788397759									
	Date: 2018-04-06									
	Test Engineer: 47989									
	Configuration: EUT / AC Adapter / Earphone, X-Position									
	Location: Chamber 2									
	Mode: LTE_16QAM Band 41 Harmonics, 10MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2501MHz									
	5002.00	-8.9	V	3.0	39.8	1.0	-47.7	-25.0	-22.7	
	7503.00	-8.1	V	3.0	39.4	1.0	-46.5	-25.0	-21.5	
	10004.00	-1.8	V	3.0	38.6	1.0	-39.3	-25.0	-14.3	
	12505.00	-4.5	V	3.0	39.0	1.0	-42.4	-25.0	-17.4	
	5002.00	-9.6	H	3.0	39.8	1.0	-48.3	-25.0	-23.3	
	7503.00	-10.6	H	3.0	39.4	1.0	-49.0	-25.0	-24.0	
	10004.00	-9.3	H	3.0	38.6	1.0	-46.9	-25.0	-21.9	
	12505.00	-6.5	H	3.0	39.0	1.0	-44.5	-25.0	-19.5	
	Mid Ch, 2593MHz									
	5186.00	-8.7	V	3.0	39.8	1.0	-47.5	-25.0	-22.5	
	7779.00	-8.6	V	3.0	39.3	1.0	-46.9	-25.0	-21.9	
	10372.00	-3.6	V	3.0	38.6	1.0	-41.1	-25.0	-16.1	
	12965.00	-3.9	V	3.0	39.4	1.0	-42.2	-25.0	-17.2	
	5186.00	-9.4	H	3.0	39.8	1.0	-48.2	-25.0	-23.2	
	7779.00	-5.9	H	3.0	39.3	1.0	-44.2	-25.0	-19.2	
	10372.00	-9.3	H	3.0	38.6	1.0	-46.8	-25.0	-21.8	
	12965.00	-6.2	H	3.0	39.4	1.0	-44.6	-25.0	-19.6	
	High Ch, 2685MHz									
5370.00	-6.6	V	3.0	39.9	1.0	-45.5	-25.0	-20.5		
8055.00	-10.3	V	3.0	39.2	1.0	-48.5	-25.0	-23.5		
10740.00	-4.8	V	3.0	38.5	1.0	-42.4	-25.0	-17.4		
13425.00	-4.3	V	3.0	39.8	1.0	-43.1	-25.0	-18.1		
5370.00	-4.7	H	3.0	39.9	1.0	-43.6	-25.0	-18.6		
8055.00	-10.4	H	3.0	39.2	1.0	-48.6	-25.0	-23.6		
10740.00	-7.0	H	3.0	38.5	1.0	-44.5	-25.0	-19.5		
13425.00	0.0	H	3.0	39.8	1.0	-38.8	-25.0	-13.8		

LTE Band 41 5MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397759 Date: 2018-04-06 Test Engineer: 47989 Configuration: EUT / AC Adapter / Earphone, X-Position Location: Chamber 2 Mode: LTE_QPSK Band 41 Harmonics, 5MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2498.5MHz									
	4997.00	-7.3	V	3.0	39.8	1.0	-46.1	-25.0	-21.1	
	7495.50	-8.7	V	3.0	39.4	1.0	-47.1	-25.0	-22.1	
	9994.00	-1.7	V	3.0	38.6	1.0	-39.3	-25.0	-14.3	
	12492.50	-5.0	V	3.0	38.9	1.0	-43.0	-25.0	-18.0	
	4997.00	-8.6	H	3.0	39.8	1.0	-47.3	-25.0	-22.3	
	7495.50	-9.1	H	3.0	39.4	1.0	-47.5	-25.0	-22.5	
	9994.00	-6.5	H	3.0	38.6	1.0	-44.1	-25.0	-19.1	
	12492.50	-6.0	H	3.0	38.9	1.0	-43.9	-25.0	-18.9	
	Mid Ch, 2593MHz									
	5186.00	-7.1	V	3.0	39.8	1.0	-45.9	-25.0	-20.9	
	7779.00	-6.6	V	3.0	39.3	1.0	-44.9	-25.0	-19.9	
	10372.00	-5.5	V	3.0	38.6	1.0	-43.1	-25.0	-18.1	
	12965.00	-2.8	V	3.0	39.4	1.0	-41.1	-25.0	-16.1	
	5186.00	-9.6	H	3.0	39.8	1.0	-48.5	-25.0	-23.5	
	7779.00	-7.1	H	3.0	39.3	1.0	-45.3	-25.0	-20.3	
	10372.00	-6.1	H	3.0	38.6	1.0	-43.7	-25.0	-18.7	
	12965.00	0.0	H	3.0	39.4	1.0	-38.4	-25.0	-13.4	
	High Ch, 2687.5MHz									
	5375.00	-6.3	V	3.0	39.9	1.0	-45.2	-25.0	-20.2	
	8062.50	-8.6	V	3.0	39.1	1.0	-46.7	-25.0	-21.7	
	10750.00	-5.6	V	3.0	38.5	1.0	-43.2	-25.0	-18.2	
	13437.50	-3.8	V	3.0	39.8	1.0	-42.6	-25.0	-17.6	
	5375.00	-4.8	H	3.0	39.9	1.0	-43.7	-25.0	-18.7	
	8062.50	-9.9	H	3.0	39.1	1.0	-48.1	-25.0	-23.1	
	10750.00	-6.8	H	3.0	38.5	1.0	-44.3	-25.0	-19.3	
	13437.50	-4.4	H	3.0	39.8	1.0	-43.2	-25.0	-18.2	
LTE Band 41 5MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung Project #: 4788397759 Date: 2018-04-06 Test Engineer: 47989 Configuration: EUT / AC Adapter / Earphone, X-Position Location: Chamber 2 Mode: LTE_QPSK Band 41 Harmonics, 5MHz Bandwidth									
	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Distance (m)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2498.5MHz									
	4997.00	-7.3	V	3.0	39.8	1.0	-46.1	-25.0	-21.1	
	7495.50	-8.7	V	3.0	39.4	1.0	-47.1	-25.0	-22.1	
	9994.00	-1.7	V	3.0	38.6	1.0	-39.3	-25.0	-14.3	
	12492.50	-5.0	V	3.0	38.9	1.0	-43.0	-25.0	-18.0	
	4997.00	-8.6	H	3.0	39.8	1.0	-47.3	-25.0	-22.3	
	7495.50	-9.1	H	3.0	39.4	1.0	-47.5	-25.0	-22.5	
	9994.00	-6.5	H	3.0	38.6	1.0	-44.1	-25.0	-19.1	
	12492.50	-6.0	H	3.0	38.9	1.0	-43.9	-25.0	-18.9	
	Mid Ch, 2593MHz									
	5186.00	-7.1	V	3.0	39.8	1.0	-45.9	-25.0	-20.9	
	7779.00	-6.6	V	3.0	39.3	1.0	-44.9	-25.0	-19.9	
	10372.00	-5.5	V	3.0	38.6	1.0	-43.1	-25.0	-18.1	
	12965.00	-2.8	V	3.0	39.4	1.0	-41.1	-25.0	-16.1	
	5186.00	-9.6	H	3.0	39.8	1.0	-48.5	-25.0	-23.5	
	7779.00	-7.1	H	3.0	39.3	1.0	-45.3	-25.0	-20.3	
	10372.00	-6.1	H	3.0	38.6	1.0	-43.7	-25.0	-18.7	
	12965.00	0.0	H	3.0	39.4	1.0	-38.4	-25.0	-13.4	
	High Ch, 2687.5MHz									
	5375.00	-6.3	V	3.0	39.9	1.0	-45.2	-25.0	-20.2	
	8062.50	-8.6	V	3.0	39.1	1.0	-46.7	-25.0	-21.7	
	10750.00	-5.6	V	3.0	38.5	1.0	-43.2	-25.0	-18.2	
	13437.50	-3.8	V	3.0	39.8	1.0	-42.6	-25.0	-17.6	
	5375.00	-4.8	H	3.0	39.9	1.0	-43.7	-25.0	-18.7	
	8062.50	-9.9	H	3.0	39.1	1.0	-48.1	-25.0	-23.1	
	10750.00	-6.8	H	3.0	38.5	1.0	-44.3	-25.0	-19.3	
	13437.50	-4.4	H	3.0	39.8	1.0	-43.2	-25.0	-18.2	