

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
LTE Band 5 3MHz QPSK		Company: Samsung Project #: 4788334019 Date: 2018-02-19 Test Engineer: 47989 Configuration: EUT / AC Adapter / Earphone, Z-Position Location: Chamber 2 Mode: LTE_QPSK Band 5 Harmonics, 3MHz 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, 825.5MHz									
		1651.00	-28.9	V	3.0	38.2	1.0	-66.1	-13.0	-53.1	
		2476.50	-28.0	V	3.0	38.8	1.0	-65.8	-13.0	-52.8	
		3302.00	-29.2	V	3.0	39.4	1.0	-67.6	-13.0	-54.6	
		1651.00	-29.5	H	3.0	38.2	1.0	-66.7	-13.0	-53.7	
		2476.50	-29.6	H	3.0	38.8	1.0	-67.4	-13.0	-54.4	
		3302.00	-28.6	H	3.0	39.4	1.0	-67.0	-13.0	-54.0	
		Mid Ch, 836.5MHz									
		1673.00	-28.1	V	3.0	38.2	1.0	-65.3	-13.0	-52.3	
		2509.50	-27.7	V	3.0	38.8	1.0	-65.5	-13.0	-52.5	
		3346.00	-28.8	V	3.0	39.5	1.0	-67.2	-13.0	-54.2	
		1673.00	-31.4	H	3.0	38.2	1.0	-68.6	-13.0	-55.6	
		2509.50	-29.5	H	3.0	38.8	1.0	-67.3	-13.0	-54.3	
		3346.00	-29.1	H	3.0	39.5	1.0	-67.6	-13.0	-54.6	
		High Ch, 847.5MHz									
		1695.00	-28.5	V	3.0	38.2	1.0	-65.7	-13.0	-52.7	
		2542.50	-27.4	V	3.0	38.9	1.0	-65.3	-13.0	-52.3	
		3390.00	-28.6	V	3.0	39.5	1.0	-67.1	-13.0	-54.1	
		1695.00	-30.8	H	3.0	38.2	1.0	-68.0	-13.0	-55.0	
		2542.50	-27.8	H	3.0	38.9	1.0	-65.7	-13.0	-52.7	
		3390.00	-28.4	H	3.0	39.5	1.0	-66.9	-13.0	-53.9	
LTE Band 5 3MHz 16QAM		Company: Samsung Project #: 4788334019 Date: 2018-02-19 Test Engineer: 47989 Configuration: EUT / AC Adapter / Earphone, Z-Position Location: Chamber 2 Mode: LTE_16QAM Band 5 Harmonics, 3MHz 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, 825.5MHz									
		1651.00	-29.9	V	3.0	38.2	1.0	-67.1	-13.0	-54.1	
		2476.50	-28.6	V	3.0	38.8	1.0	-66.4	-13.0	-53.4	
		3302.00	-29.0	V	3.0	39.4	1.0	-67.5	-13.0	-54.5	
		1651.00	-31.4	H	3.0	38.2	1.0	-68.7	-13.0	-55.7	
		2476.50	-28.8	H	3.0	38.8	1.0	-66.6	-13.0	-53.6	
		3302.00	-28.6	H	3.0	39.4	1.0	-67.1	-13.0	-54.1	
		Mid Ch, 836.5MHz									
		1673.00	-28.6	V	3.0	38.2	1.0	-65.9	-13.0	-52.9	
		2509.50	-28.3	V	3.0	38.8	1.0	-66.1	-13.0	-53.1	
		3346.00	-28.7	V	3.0	39.5	1.0	-67.2	-13.0	-54.2	
		1673.00	-32.2	H	3.0	38.2	1.0	-69.5	-13.0	-56.5	
		2509.50	-29.2	H	3.0	38.8	1.0	-67.0	-13.0	-54.0	
		3346.00	-29.2	H	3.0	39.5	1.0	-67.6	-13.0	-54.6	
		High Ch, 847.5MHz									
		1695.00	-28.6	V	3.0	38.2	1.0	-65.8	-13.0	-52.8	
		2542.50	-28.3	V	3.0	38.9	1.0	-66.2	-13.0	-53.2	
		3390.00	-28.8	V	3.0	39.5	1.0	-67.2	-13.0	-54.2	
		1695.00	-31.8	H	3.0	38.2	1.0	-69.0	-13.0	-56.0	
		2542.50	-27.9	H	3.0	38.9	1.0	-65.8	-13.0	-52.8	
		3390.00	-28.7	H	3.0	39.5	1.0	-67.2	-13.0	-54.2	

UL Korea, Ltd. Suwon Laboratory FORM ID: FCC_22/24/27
218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16675, Korea TEL: (031) 337-9902 FAX: (031) 213-5433
UL Korea, Ltd. Confidential
This report shall not be reproduced except in full, without the written approval of UL Korea, Ltd.

LTE Band 7 15MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788334019									
	Date: 2018-02-21									
	Test Engineer: 45585									
	Configuration: EUT / Adapter / Earphone, X-Position									
	Location: Chamber 1									
	Mode: LTE_QPSK Band 7 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, 2507.5MHz									
	5015.00	-10.1	V	3.0	43.8	1.0	-52.9	-25.0	-27.9	
	7522.50	-0.6	V	3.0	42.5	1.0	-42.1	-25.0	-17.1	
	10030.00	6.6	V	3.0	40.6	1.0	-33.0	-25.0	-8.0	
	12537.50	0.9	V	3.0	41.6	1.0	-39.7	-25.0	-14.7	
	5015.00	-12.3	H	3.0	43.8	1.0	-55.1	-25.0	-30.1	
	7522.50	-7.8	H	3.0	42.5	1.0	-49.2	-25.0	-24.2	
	10030.00	-1.2	H	3.0	40.6	1.0	-40.8	-25.0	-15.8	
	12537.50	-8.5	H	3.0	41.6	1.0	-49.1	-25.0	-24.1	
	Mid Ch, 2535MHz									
	5070.00	-8.5	V	3.0	43.8	1.0	-51.2	-25.0	-26.2	
	7605.00	-2.6	V	3.0	42.4	1.0	-44.0	-25.0	-19.0	
	10140.00	7.0	V	3.0	40.6	1.0	-32.6	-25.0	-7.6	
	12675.00	2.6	V	3.0	41.8	1.0	-38.2	-25.0	-13.2	
	5070.00	-10.4	H	3.0	43.8	1.0	-53.2	-25.0	-28.2	
	7605.00	-6.9	H	3.0	42.4	1.0	-48.3	-25.0	-23.3	
	10140.00	-2.1	H	3.0	40.6	1.0	-41.7	-25.0	-16.7	
	12675.00	-6.4	H	3.0	41.8	1.0	-47.1	-25.0	-22.1	
	High Ch, 2562.5MHz									
	5125.00	-11.8	V	3.0	43.8	1.0	-54.6	-25.0	-29.6	
7687.50	-1.0	V	3.0	42.4	1.0	-42.4	-25.0	-17.4		
10250.00	8.6	V	3.0	40.6	1.0	-31.0	-25.0	-6.0		
12812.50	4.7	V	3.0	41.9	1.0	-36.2	-25.0	-11.2		
5125.00	-9.5	H	3.0	43.8	1.0	-52.2	-25.0	-27.2		
7687.50	-5.4	H	3.0	42.4	1.0	-46.8	-25.0	-21.8		
10250.00	3.1	H	3.0	40.6	1.0	-36.6	-25.0	-11.6		
12812.50	-1.2	H	3.0	41.9	1.0	-42.0	-25.0	-17.0		
LTE Band 7 15MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788334019									
	Date: 2018-02-21									
	Test Engineer: 45585									
	Configuration: EUT / Adapter / Earphone, X-Position									
	Location: Chamber 1									
	Mode: LTE_16QAM Band 7 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, 2507.5MHz									
	5015.00	-10.6	V	3.0	43.8	1.0	-53.3	-25.0	-28.3	
	7522.50	-3.6	V	3.0	42.5	1.0	-45.1	-25.0	-20.1	
	10030.00	3.2	V	3.0	40.6	1.0	-36.4	-25.0	-11.4	
	12537.50	-3.0	V	3.0	41.6	1.0	-43.6	-25.0	-18.6	
	5015.00	-13.0	H	3.0	43.8	1.0	-55.8	-25.0	-30.8	
	7522.50	-10.9	H	3.0	42.5	1.0	-52.4	-25.0	-27.4	
	10030.00	-4.2	H	3.0	40.6	1.0	-43.8	-25.0	-18.8	
	12537.50	-10.4	H	3.0	41.6	1.0	-51.1	-25.0	-26.1	
	Mid Ch, 2535MHz									
	5070.00	-10.6	V	3.0	43.8	1.0	-53.4	-25.0	-28.4	
	7605.00	-6.3	V	3.0	42.4	1.0	-47.7	-25.0	-22.7	
	10140.00	3.8	V	3.0	40.6	1.0	-35.8	-25.0	-10.8	
	12675.00	-1.9	V	3.0	41.8	1.0	-42.7	-25.0	-17.7	
	5070.00	-12.4	H	3.0	43.8	1.0	-55.1	-25.0	-30.1	
	7605.00	-10.7	H	3.0	42.4	1.0	-52.1	-25.0	-27.1	
	10140.00	-4.7	H	3.0	40.6	1.0	-44.3	-25.0	-19.3	
	12675.00	-9.1	H	3.0	41.8	1.0	-49.9	-25.0	-24.9	
	High Ch, 2562.5MHz									
	5125.00	-9.5	V	3.0	43.8	1.0	-52.3	-25.0	-27.3	
7687.50	-1.1	V	3.0	42.4	1.0	-42.4	-25.0	-17.4		
10250.00	5.7	V	3.0	40.6	1.0	-33.9	-25.0	-8.9		
12812.50	2.1	V	3.0	41.9	1.0	-38.8	-25.0	-13.8		
5125.00	-12.7	H	3.0	43.8	1.0	-55.5	-25.0	-30.5		
7687.50	-8.5	H	3.0	42.4	1.0	-49.9	-25.0	-24.9		
10250.00	0.4	H	3.0	40.6	1.0	-39.3	-25.0	-14.3		
12812.50	-3.7	H	3.0	41.9	1.0	-44.5	-25.0	-19.5		

LTE Band 7 10MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788334019									
	Date: 2018-02-21									
	Test Engineer: 45585									
	Configuration: EUT / Adapter / Earphone, X-Position									
	Location: Chamber 1									
	Mode: LTE_QPSK Band 7 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, 2505MHz									
	5010.00	-10.4	V	3.0	43.8	1.0	-53.1	-25.0	-28.1	
	7515.00	-0.5	V	3.0	42.5	1.0	-42.0	-25.0	-17.0	
	10020.00	7.1	V	3.0	40.6	1.0	-32.5	-25.0	-7.5	
	12525.00	0.8	V	3.0	41.6	1.0	-39.8	-25.0	-14.8	
	5010.00	-10.2	H	3.0	43.8	1.0	-53.0	-25.0	-28.0	
	7515.00	-4.2	H	3.0	42.5	1.0	-45.7	-25.0	-20.7	
	10020.00	-5.7	H	3.0	40.6	1.0	-45.2	-25.0	-20.2	
	12525.00	-9.0	H	3.0	41.6	1.0	-49.6	-25.0	-24.6	
	Mid Ch, 2535MHz									
	5070.00	-9.3	V	3.0	43.8	1.0	-52.1	-25.0	-27.1	
	7605.00	-2.3	V	3.0	42.4	1.0	-43.7	-25.0	-18.7	
	10140.00	6.8	V	3.0	40.6	1.0	-32.8	-25.0	-7.8	
	12675.00	2.3	V	3.0	41.8	1.0	-38.5	-25.0	-13.5	
	5070.00	-10.0	H	3.0	43.8	1.0	-52.8	-25.0	-27.8	
	7605.00	-5.8	H	3.0	42.4	1.0	-47.2	-25.0	-22.2	
	10140.00	-2.8	H	3.0	40.6	1.0	-42.4	-25.0	-17.4	
	12675.00	-6.6	H	3.0	41.8	1.0	-47.4	-25.0	-22.4	
High Ch, 2565MHz										
5130.00	-8.3	V	3.0	43.8	1.0	-51.1	-25.0	-26.1		
7695.00	-0.8	V	3.0	42.4	1.0	-42.1	-25.0	-17.1		
10260.00	8.8	V	3.0	40.6	1.0	-30.9	-25.0	-5.9		
12825.00	3.7	V	3.0	41.9	1.0	-37.2	-25.0	-12.2		
5130.00	-9.9	H	3.0	43.8	1.0	-52.7	-25.0	-27.7		
7695.00	-4.8	H	3.0	42.4	1.0	-46.2	-25.0	-21.2		
10260.00	3.2	H	3.0	40.6	1.0	-36.4	-25.0	-11.4		
12825.00	-2.5	H	3.0	41.9	1.0	-43.4	-25.0	-18.4		
LTE Band 7 10MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788334019									
	Date: 2018-02-21									
	Test Engineer: 45585									
	Configuration: EUT / Adapter / Earphone, X-Position									
	Location: Chamber 1									
	Mode: LTE_16QAM Band 7 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, 2505MHz									
	5010.00	-10.6	V	3.0	43.8	1.0	-53.4	-25.0	-28.4	
	7515.00	-3.6	V	3.0	42.5	1.0	-45.1	-25.0	-20.1	
	10020.00	3.8	V	3.0	40.6	1.0	-35.7	-25.0	-10.7	
	12525.00	-3.2	V	3.0	41.6	1.0	-43.8	-25.0	-18.8	
	5010.00	-11.0	H	3.0	43.8	1.0	-53.7	-25.0	-28.7	
	7515.00	-7.5	H	3.0	42.5	1.0	-49.0	-25.0	-24.0	
	10020.00	-8.5	H	3.0	40.6	1.0	-48.1	-25.0	-23.1	
	12525.00	-10.9	H	3.0	41.6	1.0	-51.5	-25.0	-26.5	
	Mid Ch, 2535MHz									
	5070.00	-11.7	V	3.0	43.8	1.0	-54.4	-25.0	-29.4	
	7605.00	-4.6	V	3.0	42.4	1.0	-46.0	-25.0	-21.0	
	10140.00	3.3	V	3.0	40.6	1.0	-36.2	-25.0	-11.2	
	12675.00	-1.7	V	3.0	41.8	1.0	-42.5	-25.0	-17.5	
	5070.00	-12.0	H	3.0	43.8	1.0	-54.8	-25.0	-29.8	
	7605.00	-10.1	H	3.0	42.4	1.0	-51.5	-25.0	-26.5	
	10140.00	-6.1	H	3.0	40.6	1.0	-45.7	-25.0	-20.7	
	12675.00	-9.3	H	3.0	41.8	1.0	-50.0	-25.0	-25.0	
High Ch, 2565MHz										
5130.00	-11.5	V	3.0	43.8	1.0	-54.2	-25.0	-29.2		
7695.00	-3.5	V	3.0	42.4	1.0	-44.9	-25.0	-19.9		
10260.00	6.1	V	3.0	40.6	1.0	-33.5	-25.0	-8.5		
12825.00	1.3	V	3.0	41.9	1.0	-39.6	-25.0	-14.6		
5130.00	-12.7	H	3.0	43.8	1.0	-55.5	-25.0	-30.5		
7695.00	-7.3	H	3.0	42.4	1.0	-48.6	-25.0	-23.6		
10260.00	0.8	H	3.0	40.6	1.0	-38.9	-25.0	-13.9		
12825.00	-4.5	H	3.0	41.9	1.0	-45.4	-25.0	-20.4		

LTE

Band 7

5MHz

QPSK

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Samsung

4788334019

2018-02-21

45585

EUT / Adapter / Earphone, X-Position

Chamber 1

LTE_QPSK Band 7 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, 2502.5MHz									
5005.00	-8.2	V	3.0	43.8	1.0	-51.0	-25.0	-26.0	
7507.50	0.0	V	3.0	42.5	1.0	-41.5	-25.0	-16.5	
10010.00	7.0	V	3.0	40.6	1.0	-32.6	-25.0	-7.6	
12512.50	-0.1	V	3.0	41.6	1.0	-40.7	-25.0	-15.7	
5005.00	-10.8	H	3.0	43.8	1.0	-53.6	-25.0	-28.6	
7507.50	-7.8	H	3.0	42.5	1.0	-49.2	-25.0	-24.2	
10010.00	-1.2	H	3.0	40.6	1.0	-40.8	-25.0	-15.8	
12512.50	-8.2	H	3.0	41.6	1.0	-48.9	-25.0	-23.9	
Mid Ch, 2535MHz									
5070.00	-9.1	V	3.0	43.8	1.0	-51.9	-25.0	-26.9	
7605.00	-2.7	V	3.0	42.4	1.0	-44.1	-25.0	-19.1	
10140.00	6.6	V	3.0	40.6	1.0	-33.0	-25.0	-8.0	
12675.00	1.6	V	3.0	41.8	1.0	-39.1	-25.0	-14.1	
5070.00	-10.3	H	3.0	43.8	1.0	-53.1	-25.0	-28.1	
7605.00	-3.8	H	3.0	42.4	1.0	-45.2	-25.0	-20.2	
10140.00	-1.5	H	3.0	40.6	1.0	-41.1	-25.0	-16.1	
12675.00	-6.2	H	3.0	41.8	1.0	-47.0	-25.0	-22.0	
High Ch, 2567.5MHz									
5135.00	-8.1	V	3.0	43.8	1.0	-50.9	-25.0	-25.9	
7702.50	-1.6	V	3.0	42.4	1.0	-42.9	-25.0	-17.9	
10270.00	7.4	V	3.0	40.6	1.0	-32.2	-25.0	-7.2	
7639.20	-4.9	V	3.0	42.4	1.0	-46.3	-25.0	-21.3	
5135.00	-10.6	H	3.0	43.8	1.0	-53.3	-25.0	-28.3	
7702.50	-4.7	H	3.0	42.4	1.0	-46.1	-25.0	-21.1	
10270.00	1.3	H	3.0	40.6	1.0	-38.3	-25.0	-13.3	
12837.50	-3.5	H	3.0	41.9	1.0	-44.4	-25.0	-19.4	

LTE

Band 7

5MHz

16QAM

UL Verification Services, Inc.

Above 1GHz High Frequency Substitution Measurement

Company:

Project #:

Date:

Test Engineer:

Configuration:

Location:

Mode:

Samsung

4788334019

2018-02-21

45585

EUT / Adapter / Earphone, X-Position

Chamber 1

LTE_16QAM Band 7 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, 2502.5MHz									
5005.00	-9.7	V	3.0	43.8	1.0	-52.5	-25.0	-27.5	
7507.50	-3.0	V	3.0	42.5	1.0	-44.5	-25.0	-19.5	
10010.00	3.7	V	3.0	40.6	1.0	-35.9	-25.0	-10.9	
12512.50	0.1	V	3.0	41.6	1.0	-40.5	-25.0	-15.5	
5005.00	-13.9	H	3.0	43.8	1.0	-56.7	-25.0	-31.7	
7507.50	-10.7	H	3.0	42.5	1.0	-52.1	-25.0	-27.1	
10010.00	-4.4	H	3.0	40.6	1.0	-43.9	-25.0	-18.9	
12512.50	-10.3	H	3.0	41.6	1.0	-50.9	-25.0	-25.9	
Mid Ch, 2535MHz									
5070.00	-11.5	V	3.0	43.8	1.0	-54.3	-25.0	-29.3	
7605.00	-5.8	V	3.0	42.4	1.0	-47.2	-25.0	-22.2	
10140.00	3.4	V	3.0	40.6	1.0	-36.2	-25.0	-11.2	
12675.00	-2.1	V	3.0	41.8	1.0	-42.8	-25.0	-17.8	
5070.00	-12.1	H	3.0	43.8	1.0	-54.9	-25.0	-29.9	
7605.00	-6.4	H	3.0	42.4	1.0	-47.8	-25.0	-22.8	
10140.00	-4.5	H	3.0	40.6	1.0	-44.1	-25.0	-19.1	
12675.00	-8.7	H	3.0	41.8	1.0	-49.5	-25.0	-24.5	
High Ch, 2567.5MHz									
5135.00	-12.3	V	3.0	43.8	1.0	-55.1	-25.0	-30.1	
7702.50	-4.7	V	3.0	42.4	1.0	-46.0	-25.0	-21.0	
10270.00	4.7	V	3.0	40.6	1.0	-34.9	-25.0	-9.9	
12837.50	-0.4	V	3.0	41.9	1.0	-41.3	-25.0	-16.3	
5135.00	-12.7	H	3.0	43.8	1.0	-55.5	-25.0	-30.5	
7702.50	-7.5	H	3.0	42.4	1.0	-48.9	-25.0	-23.9	
10270.00	-1.3	H	3.0	40.6	1.0	-41.0	-25.0	-16.0	
12837.50	-5.8	H	3.0	41.9	1.0	-46.7	-25.0	-21.7	

		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
LTE Band 41 20MHz QPSK		Company: Samsung Project #: 4788334019 Date: 2018-02-21 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)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
		Low Ch, 2506MHz									
		5012.00	-11.6	V	3.0	39.8	1.0	-50.4	-25.0	-25.4	
		7518.00	-11.1	V	3.0	39.4	1.0	-49.4	-25.0	-24.4	
		10024.00	-0.4	V	3.0	38.6	1.0	-38.0	-25.0	-13.0	
		12530.00	-11.6	V	3.0	39.0	1.0	-49.6	-25.0	-24.6	
		5012.00	-15.9	H	3.0	39.8	1.0	-54.7	-25.0	-29.7	
		7518.00	-13.7	H	3.0	39.4	1.0	-52.1	-25.0	-27.1	
		10024.00	-8.3	H	3.0	38.6	1.0	-45.9	-25.0	-20.9	
		12530.00	-15.8	H	3.0	39.0	1.0	-53.8	-25.0	-28.8	
		Mid Ch, 2593MHz									
		5186.00	-17.4	V	3.0	39.8	1.0	-56.3	-25.0	-31.3	
		7779.00	-10.6	V	3.0	39.3	1.0	-48.9	-25.0	-23.9	
		10372.00	-0.7	V	3.0	38.6	1.0	-38.2	-25.0	-13.2	
		12965.00	-6.7	V	3.0	39.4	1.0	-45.1	-25.0	-20.1	
		5186.00	-16.3	H	3.0	39.8	1.0	-55.1	-25.0	-30.1	
		7779.00	-12.2	H	3.0	39.3	1.0	-50.5	-25.0	-25.5	
		10372.00	-2.4	H	3.0	38.6	1.0	-40.0	-25.0	-15.0	
		12965.00	-8.4	H	3.0	39.4	1.0	-46.8	-25.0	-21.8	
		High Ch, 2680MHz									
		5360.00	-8.5	V	3.0	39.9	1.0	-47.4	-25.0	-22.4	
		8040.00	-7.0	V	3.0	39.2	1.0	-45.1	-25.0	-20.1	
		10720.00	0.2	V	3.0	38.5	1.0	-37.4	-25.0	-12.4	
		13400.00	-5.5	V	3.0	39.8	1.0	-44.3	-25.0	-19.3	
		5360.00	-13.0	H	3.0	39.9	1.0	-51.9	-25.0	-26.9	
		8040.00	-8.7	H	3.0	39.2	1.0	-46.8	-25.0	-21.8	
		10720.00	-3.0	H	3.0	38.5	1.0	-40.5	-25.0	-15.5	
		13400.00	-8.2	H	3.0	39.8	1.0	-47.0	-25.0	-22.0	
		UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
LTE Band 41 20MHz 16QAM		Company: Samsung Project #: 4788334019 Date: 2018-02-21 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)	Preamplifier (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes

LTE Band 41 15MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788334019									
	Date: 2018-02-20									
	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	-10.9	V	3.0	39.8	1.0	-49.7	-25.0	-24.7	
	7510.50	-11.2	V	3.0	39.4	1.0	-49.6	-25.0	-24.6	
	10014.00	-0.4	V	3.0	38.6	1.0	-38.0	-25.0	-13.0	
	12517.50	-11.6	V	3.0	39.0	1.0	-49.5	-25.0	-24.5	
	5007.00	-15.4	H	3.0	39.8	1.0	-54.2	-25.0	-29.2	
	7510.50	-15.3	H	3.0	39.4	1.0	-53.7	-25.0	-28.7	
	10014.00	-7.2	H	3.0	38.6	1.0	-44.8	-25.0	-19.8	
	12517.50	-9.5	H	3.0	39.0	1.0	-47.5	-25.0	-22.5	
	Mid Ch, 2593MHz									
	5186.00	-14.7	V	3.0	39.8	1.0	-53.5	-25.0	-28.5	
	7779.00	-10.8	V	3.0	39.3	1.0	-49.0	-25.0	-24.0	
	10372.00	2.8	V	3.0	38.6	1.0	-34.8	-25.0	-9.8	
	12965.00	-7.8	V	3.0	39.4	1.0	-46.2	-25.0	-21.2	
	5186.00	-17.4	H	3.0	39.8	1.0	-56.2	-25.0	-31.2	
	7779.00	-10.4	H	3.0	39.3	1.0	-48.7	-25.0	-23.7	
	10372.00	-4.2	H	3.0	38.6	1.0	-41.7	-25.0	-16.7	
	12965.00	-8.3	H	3.0	39.4	1.0	-46.7	-25.0	-21.7	
	High Ch, 2682.5MHz									
	5365.00	-5.5	V	3.0	39.9	1.0	-44.4	-25.0	-19.4	
	8047.50	-7.0	V	3.0	39.2	1.0	-45.1	-25.0	-20.1	
10730.00	2.1	V	3.0	38.5	1.0	-35.4	-25.0	-10.4		
13412.50	-5.6	V	3.0	39.8	1.0	-44.4	-25.0	-19.4		
5365.00	-10.3	H	3.0	39.9	1.0	-49.2	-25.0	-24.2		
8047.50	-7.7	H	3.0	39.2	1.0	-45.8	-25.0	-20.8		
10730.00	-3.0	H	3.0	38.5	1.0	-40.6	-25.0	-15.6		
13412.50	-7.6	H	3.0	39.8	1.0	-46.4	-25.0	-21.4		
LTE Band 41 15MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788334019									
	Date: 2018-02-20									
	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	-11.6	V	3.0	39.8	1.0	-50.4	-25.0	-25.4	
	7510.50	-11.6	V	3.0	39.4	1.0	-50.0	-25.0	-25.0	
	10014.00	-2.0	V	3.0	38.6	1.0	-39.6	-25.0	-14.6	
	12517.50	-11.7	V	3.0	39.0	1.0	-49.7	-25.0	-24.7	
	5007.00	-17.2	H	3.0	39.8	1.0	-56.0	-25.0	-31.0	
	7510.50	-15.4	H	3.0	39.4	1.0	-53.8	-25.0	-28.8	
	10014.00	-8.9	H	3.0	38.6	1.0	-46.5	-25.0	-21.5	
	12517.50	-9.1	H	3.0	39.0	1.0	-47.1	-25.0	-22.1	
	Mid Ch, 2593MHz									
	5186.00	-16.8	V	3.0	39.8	1.0	-55.6	-25.0	-30.6	
	7779.00	-12.8	V	3.0	39.3	1.0	-51.0	-25.0	-26.0	
	10372.00	1.7	V	3.0	38.6	1.0	-35.8	-25.0	-10.8	
	12965.00	-8.6	V	3.0	39.4	1.0	-47.0	-25.0	-22.0	
	5186.00	-18.4	H	3.0	39.8	1.0	-57.2	-25.0	-32.2	
	7779.00	-11.2	H	3.0	39.3	1.0	-49.4	-25.0	-24.4	
	10372.00	-5.1	H	3.0	38.6	1.0	-42.7	-25.0	-17.7	
	12965.00	-9.5	H	3.0	39.4	1.0	-47.9	-25.0	-22.9	
	High Ch, 2682.5MHz									
	5365.00	-7.0	V	3.0	39.9	1.0	-45.9	-25.0	-20.9	
	8047.50	-8.8	V	3.0	39.2	1.0	-47.0	-25.0	-22.0	
10730.00	1.7	V	3.0	38.5	1.0	-35.9	-25.0	-10.9		
13412.50	-6.6	V	3.0	39.8	1.0	-45.4	-25.0	-20.4		
5365.00	-11.4	H	3.0	39.9	1.0	-50.3	-25.0	-25.3		
8047.50	-8.4	H	3.0	39.2	1.0	-46.6	-25.0	-21.6		
10730.00	-2.9	H	3.0	38.5	1.0	-40.4	-25.0	-15.4		
13412.50	-9.5	H	3.0	39.8	1.0	-48.3	-25.0	-23.3		

LTE Band 41 10MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788334019 Date: 2018-02-20 Test Engineer: 47989 Configuration: EUT / AC Adapter / Earphone, X-Position Location: Chamber 2 Mode: LTE_QPSK Band 41 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, 2501MHz</td></tr><tr><td>5002.00</td><td>-11.3</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-50.1</td><td>-25.0</td><td>-25.1</td><td></td></tr><tr><td>7503.00</td><td>-10.8</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-49.2</td><td>-25.0</td><td>-24.2</td><td></td></tr><tr><td>10004.00</td><td>-1.3</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-38.9</td><td>-25.0</td><td>-13.9</td><td></td></tr><tr><td>12505.00</td><td>-10.6</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-48.5</td><td>-25.0</td><td>-23.5</td><td></td></tr><tr><td>5002.00</td><td>-11.5</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-50.2</td><td>-25.0</td><td>-25.2</td><td></td></tr><tr><td>7503.00</td><td>-15.2</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-53.6</td><td>-25.0</td><td>-28.6</td><td></td></tr><tr><td>10004.00</td><td>-6.1</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.7</td><td>-25.0</td><td>-18.7</td><td></td></tr><tr><td>12505.00</td><td>-8.9</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-46.8</td><td>-25.0</td><td>-21.8</td><td></td></tr><tr><td colspan="10">Mid Ch, 2593MHz</td></tr><tr><td>5186.00</td><td>-14.7</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-53.6</td><td>-25.0</td><td>-28.6</td><td></td></tr><tr><td>7779.00</td><td>-10.8</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-49.0</td><td>-25.0</td><td>-24.0</td><td></td></tr><tr><td>10372.00</td><td>-0.2</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-37.8</td><td>-25.0</td><td>-12.8</td><td></td></tr><tr><td>12965.00</td><td>-6.1</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-44.5</td><td>-25.0</td><td>-19.5</td><td></td></tr><tr><td>5186.00</td><td>-17.4</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-56.2</td><td>-25.0</td><td>-31.2</td><td></td></tr><tr><td>7779.00</td><td>-10.6</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-48.9</td><td>-25.0</td><td>-23.9</td><td></td></tr><tr><td>10372.00</td><td>-4.2</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-41.7</td><td>-25.0</td><td>-16.7</td><td></td></tr><tr><td>12965.00</td><td>-8.9</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-47.3</td><td>-25.0</td><td>-22.3</td><td></td></tr><tr><td colspan="10">High Ch, 2685MHz</td></tr><tr><td>5370.00</td><td>-7.1</td><td>V</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-46.0</td><td>-25.0</td><td>-21.0</td><td></td></tr><tr><td>8055.00</td><td>-7.0</td><td>V</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-45.1</td><td>-25.0</td><td>-20.1</td><td></td></tr><tr><td>10740.00</td><td>2.1</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-35.4</td><td>-25.0</td><td>-10.4</td><td></td></tr><tr><td>13425.00</td><td>-5.2</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-44.0</td><td>-25.0</td><td>-19.0</td><td></td></tr><tr><td>5370.00</td><td>-12.9</td><td>H</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-51.8</td><td>-25.0</td><td>-26.8</td><td></td></tr><tr><td>8055.00</td><td>-7.0</td><td>H</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-45.2</td><td>-25.0</td><td>-20.2</td><td></td></tr><tr><td>10740.00</td><td>-2.3</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-39.8</td><td>-25.0</td><td>-14.8</td><td></td></tr><tr><td>13425.00</td><td>-7.5</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-46.3</td><td>-25.0</td><td>-21.3</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, 2501MHz										5002.00	-11.3	V	3.0	39.8	1.0	-50.1	-25.0	-25.1		7503.00	-10.8	V	3.0	39.4	1.0	-49.2	-25.0	-24.2		10004.00	-1.3	V	3.0	38.6	1.0	-38.9	-25.0	-13.9		12505.00	-10.6	V	3.0	39.0	1.0	-48.5	-25.0	-23.5		5002.00	-11.5	H	3.0	39.8	1.0	-50.2	-25.0	-25.2		7503.00	-15.2	H	3.0	39.4	1.0	-53.6	-25.0	-28.6		10004.00	-6.1	H	3.0	38.6	1.0	-43.7	-25.0	-18.7		12505.00	-8.9	H	3.0	39.0	1.0	-46.8	-25.0	-21.8		Mid Ch, 2593MHz										5186.00	-14.7	V	3.0	39.8	1.0	-53.6	-25.0	-28.6		7779.00	-10.8	V	3.0	39.3	1.0	-49.0	-25.0	-24.0		10372.00	-0.2	V	3.0	38.6	1.0	-37.8	-25.0	-12.8		12965.00	-6.1	V	3.0	39.4	1.0	-44.5	-25.0	-19.5		5186.00	-17.4	H	3.0	39.8	1.0	-56.2	-25.0	-31.2		7779.00	-10.6	H	3.0	39.3	1.0	-48.9	-25.0	-23.9		10372.00	-4.2	H	3.0	38.6	1.0	-41.7	-25.0	-16.7		12965.00	-8.9	H	3.0	39.4	1.0	-47.3	-25.0	-22.3		High Ch, 2685MHz										5370.00	-7.1	V	3.0	39.9	1.0	-46.0	-25.0	-21.0		8055.00	-7.0	V	3.0	39.2	1.0	-45.1	-25.0	-20.1		10740.00	2.1	V	3.0	38.5	1.0	-35.4	-25.0	-10.4		13425.00	-5.2	V	3.0	39.8	1.0	-44.0	-25.0	-19.0		5370.00	-12.9	H	3.0	39.9	1.0	-51.8	-25.0	-26.8		8055.00	-7.0	H	3.0	39.2	1.0	-45.2	-25.0	-20.2		10740.00	-2.3	H	3.0	38.5	1.0	-39.8	-25.0	-14.8		13425.00	-7.5	H	3.0	39.8	1.0	-46.3	-25.0	-21.3	
	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	-11.3	V	3.0	39.8	1.0	-50.1	-25.0	-25.1																																																																																																																																																																																																																																																																																										
7503.00	-10.8	V	3.0	39.4	1.0	-49.2	-25.0	-24.2																																																																																																																																																																																																																																																																																										
10004.00	-1.3	V	3.0	38.6	1.0	-38.9	-25.0	-13.9																																																																																																																																																																																																																																																																																										
12505.00	-10.6	V	3.0	39.0	1.0	-48.5	-25.0	-23.5																																																																																																																																																																																																																																																																																										
5002.00	-11.5	H	3.0	39.8	1.0	-50.2	-25.0	-25.2																																																																																																																																																																																																																																																																																										
7503.00	-15.2	H	3.0	39.4	1.0	-53.6	-25.0	-28.6																																																																																																																																																																																																																																																																																										
10004.00	-6.1	H	3.0	38.6	1.0	-43.7	-25.0	-18.7																																																																																																																																																																																																																																																																																										
12505.00	-8.9	H	3.0	39.0	1.0	-46.8	-25.0	-21.8																																																																																																																																																																																																																																																																																										
Mid Ch, 2593MHz																																																																																																																																																																																																																																																																																																		
5186.00	-14.7	V	3.0	39.8	1.0	-53.6	-25.0	-28.6																																																																																																																																																																																																																																																																																										
7779.00	-10.8	V	3.0	39.3	1.0	-49.0	-25.0	-24.0																																																																																																																																																																																																																																																																																										
10372.00	-0.2	V	3.0	38.6	1.0	-37.8	-25.0	-12.8																																																																																																																																																																																																																																																																																										
12965.00	-6.1	V	3.0	39.4	1.0	-44.5	-25.0	-19.5																																																																																																																																																																																																																																																																																										
5186.00	-17.4	H	3.0	39.8	1.0	-56.2	-25.0	-31.2																																																																																																																																																																																																																																																																																										
7779.00	-10.6	H	3.0	39.3	1.0	-48.9	-25.0	-23.9																																																																																																																																																																																																																																																																																										
10372.00	-4.2	H	3.0	38.6	1.0	-41.7	-25.0	-16.7																																																																																																																																																																																																																																																																																										
12965.00	-8.9	H	3.0	39.4	1.0	-47.3	-25.0	-22.3																																																																																																																																																																																																																																																																																										
High Ch, 2685MHz																																																																																																																																																																																																																																																																																																		
5370.00	-7.1	V	3.0	39.9	1.0	-46.0	-25.0	-21.0																																																																																																																																																																																																																																																																																										
8055.00	-7.0	V	3.0	39.2	1.0	-45.1	-25.0	-20.1																																																																																																																																																																																																																																																																																										
10740.00	2.1	V	3.0	38.5	1.0	-35.4	-25.0	-10.4																																																																																																																																																																																																																																																																																										
13425.00	-5.2	V	3.0	39.8	1.0	-44.0	-25.0	-19.0																																																																																																																																																																																																																																																																																										
5370.00	-12.9	H	3.0	39.9	1.0	-51.8	-25.0	-26.8																																																																																																																																																																																																																																																																																										
8055.00	-7.0	H	3.0	39.2	1.0	-45.2	-25.0	-20.2																																																																																																																																																																																																																																																																																										
10740.00	-2.3	H	3.0	38.5	1.0	-39.8	-25.0	-14.8																																																																																																																																																																																																																																																																																										
13425.00	-7.5	H	3.0	39.8	1.0	-46.3	-25.0	-21.3																																																																																																																																																																																																																																																																																										
LTE Band 41 10MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement Company: Samsung Project #: 4788334019 Date: 2018-02-20 Test Engineer: 47989 Configuration: EUT / AC Adapter / Earphone, X-Position Location: Chamber 2 Mode: LTE_16QAM Band 41 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, 2501MHz</td></tr><tr><td>5002.00</td><td>-12.1</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-50.9</td><td>-25.0</td><td>-25.9</td><td></td></tr><tr><td>7503.00</td><td>-11.6</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-49.9</td><td>-25.0</td><td>-24.9</td><td></td></tr><tr><td>10004.00</td><td>-1.4</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-39.0</td><td>-25.0</td><td>-14.0</td><td></td></tr><tr><td>12505.00</td><td>-11.5</td><td>V</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-49.5</td><td>-25.0</td><td>-24.5</td><td></td></tr><tr><td>5002.00</td><td>-12.4</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-51.2</td><td>-25.0</td><td>-26.2</td><td></td></tr><tr><td>7503.00</td><td>-15.5</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-53.9</td><td>-25.0</td><td>-28.9</td><td></td></tr><tr><td>10004.00</td><td>-7.2</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-44.8</td><td>-25.0</td><td>-19.8</td><td></td></tr><tr><td>12505.00</td><td>-9.4</td><td>H</td><td>3.0</td><td>39.0</td><td>1.0</td><td>-47.4</td><td>-25.0</td><td>-22.4</td><td></td></tr><tr><td colspan="10">Mid Ch, 2593MHz</td></tr><tr><td>5186.00</td><td>-18.1</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-57.0</td><td>-25.0</td><td>-32.0</td><td></td></tr><tr><td>7779.00</td><td>-11.9</td><td>V</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-50.2</td><td>-25.0</td><td>-25.2</td><td></td></tr><tr><td>10372.00</td><td>-2.3</td><td>V</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-39.8</td><td>-25.0</td><td>-14.8</td><td></td></tr><tr><td>12965.00</td><td>-8.1</td><td>V</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-46.5</td><td>-25.0</td><td>-21.5</td><td></td></tr><tr><td>5186.00</td><td>-18.3</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-57.1</td><td>-25.0</td><td>-32.1</td><td></td></tr><tr><td>7779.00</td><td>-12.3</td><td>H</td><td>3.0</td><td>39.3</td><td>1.0</td><td>-50.6</td><td>-25.0</td><td>-25.6</td><td></td></tr><tr><td>10372.00</td><td>-5.8</td><td>H</td><td>3.0</td><td>38.6</td><td>1.0</td><td>-43.3</td><td>-25.0</td><td>-18.3</td><td></td></tr><tr><td>12965.00</td><td>-9.2</td><td>H</td><td>3.0</td><td>39.4</td><td>1.0</td><td>-47.5</td><td>-25.0</td><td>-22.5</td><td></td></tr><tr><td colspan="10">High Ch, 2685MHz</td></tr><tr><td>5370.00</td><td>-7.8</td><td>V</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-46.7</td><td>-25.0</td><td>-21.7</td><td></td></tr><tr><td>8055.00</td><td>-8.5</td><td>V</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-46.6</td><td>-25.0</td><td>-21.6</td><td></td></tr><tr><td>10740.00</td><td>-0.4</td><td>V</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-37.9</td><td>-25.0</td><td>-12.9</td><td></td></tr><tr><td>13425.00</td><td>-6.5</td><td>V</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-45.4</td><td>-25.0</td><td>-20.4</td><td></td></tr><tr><td>5370.00</td><td>-13.1</td><td>H</td><td>3.0</td><td>39.9</td><td>1.0</td><td>-51.9</td><td>-25.0</td><td>-26.9</td><td></td></tr><tr><td>8055.00</td><td>-9.5</td><td>H</td><td>3.0</td><td>39.2</td><td>1.0</td><td>-47.6</td><td>-25.0</td><td>-22.6</td><td></td></tr><tr><td>10740.00</td><td>-3.3</td><td>H</td><td>3.0</td><td>38.5</td><td>1.0</td><td>-40.9</td><td>-25.0</td><td>-15.9</td><td></td></tr><tr><td>13425.00</td><td>-9.5</td><td>H</td><td>3.0</td><td>39.8</td><td>1.0</td><td>-48.3</td><td>-25.0</td><td>-23.3</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, 2501MHz										5002.00	-12.1	V	3.0	39.8	1.0	-50.9	-25.0	-25.9		7503.00	-11.6	V	3.0	39.4	1.0	-49.9	-25.0	-24.9		10004.00	-1.4	V	3.0	38.6	1.0	-39.0	-25.0	-14.0		12505.00	-11.5	V	3.0	39.0	1.0	-49.5	-25.0	-24.5		5002.00	-12.4	H	3.0	39.8	1.0	-51.2	-25.0	-26.2		7503.00	-15.5	H	3.0	39.4	1.0	-53.9	-25.0	-28.9		10004.00	-7.2	H	3.0	38.6	1.0	-44.8	-25.0	-19.8		12505.00	-9.4	H	3.0	39.0	1.0	-47.4	-25.0	-22.4		Mid Ch, 2593MHz										5186.00	-18.1	V	3.0	39.8	1.0	-57.0	-25.0	-32.0		7779.00	-11.9	V	3.0	39.3	1.0	-50.2	-25.0	-25.2		10372.00	-2.3	V	3.0	38.6	1.0	-39.8	-25.0	-14.8		12965.00	-8.1	V	3.0	39.4	1.0	-46.5	-25.0	-21.5		5186.00	-18.3	H	3.0	39.8	1.0	-57.1	-25.0	-32.1		7779.00	-12.3	H	3.0	39.3	1.0	-50.6	-25.0	-25.6		10372.00	-5.8	H	3.0	38.6	1.0	-43.3	-25.0	-18.3		12965.00	-9.2	H	3.0	39.4	1.0	-47.5	-25.0	-22.5		High Ch, 2685MHz										5370.00	-7.8	V	3.0	39.9	1.0	-46.7	-25.0	-21.7		8055.00	-8.5	V	3.0	39.2	1.0	-46.6	-25.0	-21.6		10740.00	-0.4	V	3.0	38.5	1.0	-37.9	-25.0	-12.9		13425.00	-6.5	V	3.0	39.8	1.0	-45.4	-25.0	-20.4		5370.00	-13.1	H	3.0	39.9	1.0	-51.9	-25.0	-26.9		8055.00	-9.5	H	3.0	39.2	1.0	-47.6	-25.0	-22.6		10740.00	-3.3	H	3.0	38.5	1.0	-40.9	-25.0	-15.9		13425.00	-9.5	H	3.0	39.8	1.0	-48.3	-25.0	-23.3	
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	-12.1	V	3.0	39.8	1.0	-50.9	-25.0	-25.9																																																																																																																																																																																																																																																																																										
7503.00	-11.6	V	3.0	39.4	1.0	-49.9	-25.0	-24.9																																																																																																																																																																																																																																																																																										
10004.00	-1.4	V	3.0	38.6	1.0	-39.0	-25.0	-14.0																																																																																																																																																																																																																																																																																										
12505.00	-11.5	V	3.0	39.0	1.0	-49.5	-25.0	-24.5																																																																																																																																																																																																																																																																																										
5002.00	-12.4	H	3.0	39.8	1.0	-51.2	-25.0	-26.2																																																																																																																																																																																																																																																																																										
7503.00	-15.5	H	3.0	39.4	1.0	-53.9	-25.0	-28.9																																																																																																																																																																																																																																																																																										
10004.00	-7.2	H	3.0	38.6	1.0	-44.8	-25.0	-19.8																																																																																																																																																																																																																																																																																										
12505.00	-9.4	H	3.0	39.0	1.0	-47.4	-25.0	-22.4																																																																																																																																																																																																																																																																																										
Mid Ch, 2593MHz																																																																																																																																																																																																																																																																																																		
5186.00	-18.1	V	3.0	39.8	1.0	-57.0	-25.0	-32.0																																																																																																																																																																																																																																																																																										
7779.00	-11.9	V	3.0	39.3	1.0	-50.2	-25.0	-25.2																																																																																																																																																																																																																																																																																										
10372.00	-2.3	V	3.0	38.6	1.0	-39.8	-25.0	-14.8																																																																																																																																																																																																																																																																																										
12965.00	-8.1	V	3.0	39.4	1.0	-46.5	-25.0	-21.5																																																																																																																																																																																																																																																																																										
5186.00	-18.3	H	3.0	39.8	1.0	-57.1	-25.0	-32.1																																																																																																																																																																																																																																																																																										
7779.00	-12.3	H	3.0	39.3	1.0	-50.6	-25.0	-25.6																																																																																																																																																																																																																																																																																										
10372.00	-5.8	H	3.0	38.6	1.0	-43.3	-25.0	-18.3																																																																																																																																																																																																																																																																																										
12965.00	-9.2	H	3.0	39.4	1.0	-47.5	-25.0	-22.5																																																																																																																																																																																																																																																																																										
High Ch, 2685MHz																																																																																																																																																																																																																																																																																																		
5370.00	-7.8	V	3.0	39.9	1.0	-46.7	-25.0	-21.7																																																																																																																																																																																																																																																																																										
8055.00	-8.5	V	3.0	39.2	1.0	-46.6	-25.0	-21.6																																																																																																																																																																																																																																																																																										
10740.00	-0.4	V	3.0	38.5	1.0	-37.9	-25.0	-12.9																																																																																																																																																																																																																																																																																										
13425.00	-6.5	V	3.0	39.8	1.0	-45.4	-25.0	-20.4																																																																																																																																																																																																																																																																																										
5370.00	-13.1	H	3.0	39.9	1.0	-51.9	-25.0	-26.9																																																																																																																																																																																																																																																																																										
8055.00	-9.5	H	3.0	39.2	1.0	-47.6	-25.0	-22.6																																																																																																																																																																																																																																																																																										
10740.00	-3.3	H	3.0	38.5	1.0	-40.9	-25.0	-15.9																																																																																																																																																																																																																																																																																										
13425.00	-9.5	H	3.0	39.8	1.0	-48.3	-25.0	-23.3																																																																																																																																																																																																																																																																																										

LTE Band 41 5MHz QPSK	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788334019									
	Date: 2018-02-20									
	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)	Preamp (dB)	Filter (dB)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
	Low Ch, 2498.5MHz									
	4997.00	-11.6	V	3.0	39.8	1.0	-50.4	-25.0	-25.4	
	7495.50	-9.9	V	3.0	39.4	1.0	-48.3	-25.0	-23.3	
	9994.00	0.0	V	3.0	38.6	1.0	-37.6	-25.0	-12.6	
	12492.50	-11.6	V	3.0	38.9	1.0	-49.6	-25.0	-24.6	
	4997.00	-15.5	H	3.0	39.8	1.0	-54.2	-25.0	-29.2	
	7495.50	-14.8	H	3.0	39.4	1.0	-53.2	-25.0	-28.2	
	9994.00	-8.1	H	3.0	38.6	1.0	-45.7	-25.0	-20.7	
	12492.50	-9.6	H	3.0	38.9	1.0	-47.5	-25.0	-22.5	
	Mid Ch, 2593MHz									
	5186.00	-14.8	V	3.0	39.8	1.0	-53.7	-25.0	-28.7	
	7779.00	-9.9	V	3.0	39.3	1.0	-48.1	-25.0	-23.1	
	10372.00	-1.3	V	3.0	38.6	1.0	-38.9	-25.0	-13.9	
	12965.00	-5.9	V	3.0	39.4	1.0	-44.3	-25.0	-19.3	
	5186.00	-18.0	H	3.0	39.8	1.0	-56.8	-25.0	-31.8	
	7779.00	-12.6	H	3.0	39.3	1.0	-50.8	-25.0	-25.8	
	10372.00	-7.7	H	3.0	38.6	1.0	-45.2	-25.0	-20.2	
	12965.00	-7.7	H	3.0	39.4	1.0	-46.1	-25.0	-21.1	
	High Ch, 2687.5MHz									
	5375.00	-8.1	V	3.0	39.9	1.0	-47.0	-25.0	-22.0	
8062.50	-8.5	V	3.0	39.1	1.0	-46.6	-25.0	-21.6		
10750.00	2.1	V	3.0	38.5	1.0	-35.4	-25.0	-10.4		
13437.50	-4.9	V	3.0	39.8	1.0	-43.8	-25.0	-18.8		
5375.00	-12.9	H	3.0	39.9	1.0	-51.8	-25.0	-26.8		
8062.50	-7.4	H	3.0	39.1	1.0	-45.5	-25.0	-20.5		
10750.00	-3.2	H	3.0	38.5	1.0	-40.8	-25.0	-15.8		
13437.50	-7.6	H	3.0	39.8	1.0	-46.4	-25.0	-21.4		
LTE Band 41 5MHz 16QAM	UL Verification Services, Inc. Above 1GHz High Frequency Substitution Measurement									
	Company: Samsung									
	Project #: 4788334019									
	Date: 2018-02-20									
	Test Engineer: 47989									
	Configuration: EUT / AC Adapter / Earphone, X-Position									
	Location: Chamber 2									
	Mode: LTE_16QAM Band 41 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, 2498.5MHz									
	4997.00	-12.7	V	3.0	39.8	1.0	-51.5	-25.0	-26.5	
	7495.50	-10.5	V	3.0	39.4	1.0	-48.9	-25.0	-23.9	
	9994.00	-0.7	V	3.0	38.6	1.0	-38.3	-25.0	-13.3	
	12492.50	-11.7	V	3.0	38.9	1.0	-49.7	-25.0	-24.7	
	4997.00	-16.4	H	3.0	39.8	1.0	-55.2	-25.0	-30.2	
	7495.50	-15.8	H	3.0	39.4	1.0	-54.2	-25.0	-29.2	
	9994.00	-8.6	H	3.0	38.6	1.0	-46.2	-25.0	-21.2	
	12492.50	-10.3	H	3.0	38.9	1.0	-48.2	-25.0	-23.2	
	Mid Ch, 2593MHz									
	5186.00	-15.3	V	3.0	39.8	1.0	-54.2	-25.0	-29.2	
	7779.00	-9.3	V	3.0	39.3	1.0	-47.6	-25.0	-22.6	
	10372.00	-2.7	V	3.0	38.6	1.0	-40.3	-25.0	-15.3	
	12965.00	-6.1	V	3.0	39.4	1.0	-44.5	-25.0	-19.5	
	5186.00	-16.8	H	3.0	39.8	1.0	-55.7	-25.0	-30.7	
	7779.00	-14.0	H	3.0	39.3	1.0	-52.3	-25.0	-27.3	
	10372.00	-8.5	H	3.0	38.6	1.0	-46.1	-25.0	-21.1	
	12965.00	-8.7	H	3.0	39.4	1.0	-47.0	-25.0	-22.0	
	High Ch, 2687.5MHz									
	5375.00	-10.0	V	3.0	39.9	1.0	-48.9	-25.0	-23.9	
8062.50	-9.0	V	3.0	39.1	1.0	-47.2	-25.0	-22.2		
10750.00	1.7	V	3.0	38.5	1.0	-35.9	-25.0	-10.9		
13437.50	-6.4	V	3.0	39.8	1.0	-45.2	-25.0	-20.2		
5375.00	-13.0	H	3.0	39.9	1.0	-51.9	-25.0	-26.9		
8062.50	-8.7	H	3.0	39.1	1.0	-46.8	-25.0	-21.8		
10750.00	-3.7	H	3.0	38.5	1.0	-41.3	-25.0	-16.3		
13437.50	-9.7	H	3.0	39.8	1.0	-48.5	-25.0	-23.5		