

10.1.10. LTE Band 26 (FCC PART 90S)

15MHz QPSK										15MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/15/2019 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 26 Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/16/2019 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 26 Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
821.50	15.31	V	2.9	0.1	12.57	38.5	-35.9			821.50	14.34	V	2.9	0.1	11.60	38.5	-26.9			
821.50	22.37	H	2.9	0.2	19.71	38.5	-18.8			821.50	21.24	H	2.9	0.2	18.58	38.5	-19.9			

10MHz QPSK										10MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/27/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 26 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/27/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 26 Fundamentals, 10MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
819.00	15.62	V	2.8	0.1	12.89	50.0	-37.1	Part 90		819.00	13.91	V	2.8	0.1	11.18	50.0	-38.8	Part 90		
819.00	22.91	H	2.8	0.2	20.16	50.0	-29.8	Part 90		819.00	21.11	H	2.8	0.2	18.46	50.0	-31.5	Part 90		
Mid Ch										Mid Ch										
831.50	0.00	V	2.9	0.1	0.00	38.5	0.0			831.50	0.00	V	2.9	0.1	0.00	38.5	0.0			
831.50	0.00	H	2.9	0.2	0.00	38.5	0.0			831.50	0.00	H	2.9	0.2	0.00	38.5	0.0			
High Ch										High Ch										
844.00	0.00	V	2.9	0.0	0.00	38.5	0.0			844.00	0.00	V	2.9	0.0	0.00	38.5	0.0			
844.00	0.00	H	2.9	0.1	0.00	38.5	0.0			844.00	0.00	H	2.9	0.1	0.00	38.5	0.0			

10.1.11. LTE Band 26 (FCC PART 22)

15MHz QPSK										15MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/24/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 26 Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/24/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 26 Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
831.50	16.41	V	2.9	0.1	13.58	38.5	-24.9			831.50	14.60	V	2.9	0.1	11.77	38.5	-26.7			
831.50	21.96	H	2.9	0.2	19.23	38.5	-19.3			831.50	20.27	H	2.9	0.2	17.54	38.5	-21.0			
Mid Ch										Mid Ch										
836.50	16.33	V	2.9	0.1	13.48	38.5	-25.0			836.50	14.60	V	2.9	0.1	11.75	38.5	-26.7			
836.50	21.96	H	2.9	0.2	19.22	38.5	-19.3			836.50	19.88	H	2.9	0.2	17.14	38.5	-21.4			
High Ch										High Ch										
841.50	15.88	V	2.9	0.0	13.03	38.5	-25.5			841.50	14.12	V	2.9	0.0	11.37	38.5	-27.2			
841.50	21.58	H	2.9	0.1	18.83	38.5	-19.7			841.50	20.25	H	2.9	0.1	17.50	38.5	-21.0			

1.4MHz QPSK										3MHz 16QAM										
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/24/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 26 Fundamentals, 1.4MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables										UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/24/2018 Test Engineer: 43575 OS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 26 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Hybrid T407, and Chamber B SMA Cables Substitution: Dipole T416, Chamber B Passthrough Cables										
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBd)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes		
Low Ch										Low Ch										
814.70	15.86	V	2.8	0.1	13.16	50.0	-36.8	Part 90		814.70	14.02	V	2.8	0.1	11.31	50.0	-38.7	Part 90		
814.70	22.81	H	2.8	0.2	20.17	50.0	-29.8	Part 90		814.70	20.79	H	2.8	0.2	18.15	50.0	-31.8	Part 90		
Mid Ch										Mid Ch										
831.50	16.14	V	2.9	0.1	13.31	38.5	-25.2			831.50	14.32	V	2.9	0.1	11.49	38.5	-27.0			
831.50	22.33	H	2.9	0.2	19.60	38.5	-18.9			831.50	20.20	H	2.9	0.2	17.47	38.5	-21.0			
High Ch										High Ch										
848.30	16.16	V	2.9	0.0	13.26	38.5	-25.2			847.50	14.12	V	2.9	0.0	11.23	38.5	-27.3			
848.30	22.12	H	2.9	0.1	19.33	38.5	-19.2			847.50	20.19	H	2.9	0.1	17.40	38.5	-21.1			

10.1.12. LTE Band 41

20MHz QPSK									20MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/21/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 41(FCC) Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/21/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 41(FCC) Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
2506.00	19.04	V	5.2	9.6	23.42	33.0	-9.6		2506.00	16.98	V	5.2	9.6	21.36	33.0	-11.6	
2506.00	13.80	H	5.2	9.6	18.18	33.0	-14.8		2506.00	11.86	H	5.2	9.6	16.24	33.0	-16.8	
Mid Ch									Mid Ch								
2593.00	16.21	V	5.3	9.5	20.39	33.0	-12.6		2593.00	15.15	V	5.3	9.5	19.33	33.0	-13.7	
2593.00	13.38	H	5.3	9.5	17.56	33.0	-15.4		2593.00	11.89	H	5.3	9.5	16.07	33.0	-16.9	
High Ch									High Ch								
2680.00	18.06	V	5.4	9.8	22.44	33.0	-10.6		2680.00	16.97	V	5.4	9.8	21.35	33.0	-11.7	
2680.00	15.44	H	5.4	9.8	19.82	33.0	-13.2		2680.00	14.19	H	5.4	9.8	18.57	33.0	-14.4	
15MHz QPSK UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/21/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 41(FCC) Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables									15MHz 16QAM UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/21/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 41(FCC) Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
2503.50	19.63	V	5.2	9.6	24.02	33.0	-9.0		2503.50	17.51	V	5.2	9.6	21.90	33.0	-11.1	
2503.50	15.25	H	5.2	9.6	19.63	33.0	-13.4		2503.50	13.13	H	5.2	9.6	17.51	33.0	-15.5	
Mid Ch									Mid Ch								
2593.00	17.38	V	5.3	9.5	21.56	33.0	-11.4		2593.00	15.64	V	5.3	9.5	19.82	33.0	-13.2	
2593.00	13.98	H	5.3	9.5	18.16	33.0	-14.8		2593.00	12.51	H	5.3	9.5	16.69	33.0	-16.3	
High Ch									High Ch								
2682.50	18.73	V	5.4	9.8	23.11	33.0	-9.9		2682.50	17.38	V	5.4	9.8	21.76	33.0	-11.2	
2682.50	14.77	H	5.4	9.8	19.15	33.0	-13.8		2682.50	12.86	H	5.4	9.8	17.24	33.0	-15.8	

10.1.13. LTE Band 66

20MHz QPSK									20MHz 16QAM								
UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/19/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 66 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables									UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/19/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 66 Fundamentals, 20MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
1720.00	18.45	V	4.2	8.5	22.78	30.0	-7.2		1720.00	16.77	V	4.2	8.5	21.10	30.0	-8.9	
1720.00	10.89	H	4.2	8.5	15.22	30.0	-14.8		1720.00	9.73	H	4.2	8.5	14.06	30.0	-15.9	
Mid Ch									Mid Ch								
1745.00	17.70	V	4.2	8.9	22.35	30.0	-7.6		1745.00	16.09	V	4.2	8.9	20.74	30.0	-9.3	
1745.00	8.63	H	4.2	8.9	13.28	30.0	-16.7		1745.00	6.94	H	4.2	8.9	11.59	30.0	-18.4	
High Ch									High Ch								
1770.00	18.66	V	4.3	9.3	23.63	30.0	-6.4		1770.00	16.97	V	4.3	9.3	21.94	30.0	-8.1	
1770.00	9.88	H	4.3	9.3	14.66	30.0	-15.3		1770.00	8.03	H	4.3	9.3	13.01	30.0	-17.0	
3MHz QPSK UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/19/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_QPSK Band 66 Fundamentals, 3MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables									15MHz 16QAM UL Verification Services, Inc. High Frequency Substitution Measurement Company: Lions Project #: 12563734 Date: 11/19/2018 Test Engineer: 19480 BS Configuration: EUT Only Location: Chamber B Mode: LTE_16QAM Band 66 Fundamentals, 15MHz Bandwidth Test Equipment: Receiving: Horn T863, and Chamber B SMA Cables Substitution: Horn T60, Chamber B Passthrough Cables								
f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes	f MHz	SG reading (dBm)	Ant. Pol. (H/V)	Cable Loss (dB)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Delta (dB)	Notes
Low Ch									Low Ch								
1711.50	16.10	V	4.2	8.4	20.30	30.0	-9.7		1711.50	16.45	V	4.2	8.5	20.76	30.0	-9.2	
1711.50	9.12	H	4.2	8.4	13.31	30.0	-16.7		1711.50	9.64	H	4.2	8.5	13.95	30.0	-16.1	
Mid Ch									Mid Ch								
1745.00	17.96	V	4.2	8.9	22.61	30.0	-7.4		1745.00	17.18	V	4.2	8.9	21.83	30.0	-8.2	
1745.00	9.44	H	4.2	8.9	14.09	30.0	-15.9		1745.00	9.83	H	4.2	8.9	14.28	30.0	-15.7	
High Ch									High Ch								
1772.50	17.19	V	4.3	9.4	22.30	30.0	-7.7		1772.50	16.60	V	4.3	9.3	21.61	30.0	-8.4	
1772.50	9.86	H	4.3	9.4	14.98	30.0	-15.0		1772.50	8.77	H	4.3	9.3	13.78	30.0	-16.2	

10.2. FIELD STRENGTH OF SPURIOUS RADIATION

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53, and §90.691

LIMITS

FCC: §22.917(a), §24.238(a), §27.53 (g), (h), §90.691

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

FCC: §27.53 (Band 13)

(c) The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

(f) Emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40 dBm/MHz).

FCC: §27.53 (m) (Band 7, 41)

At least $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section.

TEST PROCEDURE

KDB 971168 D01 v02r02/D02 v01

TIA-603-E, Section 2.2.12.

MODES TESTED

- GSM 850
- GSM 1900
- WCDMA Band 5
- WCDMA Band 2
- WCDMA Band 4
- LTE Band 2
- LTE Band 4
- LTE Band 5
- LTE Band 12
- LTE Band 13
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 41
- LTE Band 66

RESULTS

No spurious emissions were detected above system noise floor from 18-26GHz.

10.2.1. GSM

Company:	Samsung
Project #:	12563734
Date:	10/30/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	GPRS 850
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
824.2MHz												
4	1.644	-70.44	Pk	28.5	-31.6	11.5	-62.04	-13	-49.04	0-360	149	V
1	1.649	-69.87	Pk	28.5	-31.5	12.1	-60.77	-13	-47.77	0-360	149	H
5	2.461	-72.25	Pk	32.2	-30.6	11.5	-59.15	-13	-46.15	0-360	149	V
2	2.472	-71.65	Pk	32.3	-30.6	11.8	-58.15	-13	-45.15	0-360	149	H
6	3.284	-70.44	Pk	32.9	-29.3	10.9	-55.94	-13	-42.94	0-360	149	V
3	3.29	-71.54	Pk	32.8	-29.1	11.1	-56.74	-13	-43.74	0-360	149	H
836.6MHz												
4	1.662	-69.43	Pk	28.6	-31.7	11.6	-60.93	-13	-47.93	0-360	149	V
1	1.669	-70.59	Pk	28.7	-31.6	12.7	-60.79	-13	-47.79	0-360	149	H
5	2.499	-72.01	Pk	32.4	-30.5	11.8	-58.31	-13	-45.31	0-360	149	V
2	2.504	-72.03	Pk	32.4	-30.4	11.2	-58.83	-13	-45.83	0-360	149	H
6	3.333	-71.74	Pk	32.7	-28.9	10.9	-57.04	-13	-44.04	0-360	149	V
3	3.343	-71.47	Pk	32.7	-29	10.4	-57.37	-13	-44.37	0-360	149	H
848.8MHz												
4	1.69	-70.56	Pk	28.9	-31.3	11.7	-61.26	-13	-48.26	0-360	149	V
1	1.693	-70.75	Pk	28.9	-31.3	12.6	-60.55	-13	-47.55	0-360	149	H
5	2.541	-71.88	Pk	32.4	-30.4	11.9	-57.98	-13	-44.98	0-360	149	V
2	2.542	-71.4	Pk	32.3	-30.4	11.8	-57.7	-13	-44.7	0-360	149	H
6	3.383	-70.99	Pk	32.6	-29.1	11.4	-56.09	-13	-43.09	0-360	149	V
3	3.398	-72.26	Pk	32.6	-29.1	11.2	-57.56	-13	-44.56	0-360	149	H

Company:	Samsung
Project #:	12563734
Date:	10/30/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	EGPRS 850
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
824.2MHz												
4	1.642	-71.4	Pk	28.4	-31.6	11.5	-63.1	-13	-50.1	0-360	150	V
1	1.647	-69.85	Pk	28.5	-31.6	12.2	-60.75	-13	-47.75	0-360	149	H
5	2.459	-71.3	Pk	32.2	-30.6	11.6	-58.1	-13	-45.1	0-360	150	V
2	2.468	-71.04	Pk	32.2	-30.6	11.8	-57.64	-13	-44.64	0-360	149	H
3	3.294	-70.94	Pk	32.8	-29.3	11.2	-56.24	-13	-43.24	0-360	149	H
6	3.297	-71.45	Pk	32.8	-29.3	11.3	-56.65	-13	-43.65	0-360	150	V
836.6MHz												
4	1.664	-71.18	Pk	28.6	-31.7	11.6	-62.68	-13	-49.68	0-360	149	V
1	1.671	-70.71	Pk	28.7	-31.6	12.7	-60.91	-13	-47.91	0-360	149	H
5	2.499	-71.68	Pk	32.4	-30.5	11.8	-57.98	-13	-44.98	0-360	149	V
2	2.505	-72.75	Pk	32.4	-30.4	11.3	-59.45	-13	-46.45	0-360	149	H
6	3.339	-71.14	Pk	32.7	-29	11	-56.44	-13	-43.44	0-360	149	V
3	3.342	-70.62	Pk	32.7	-29	10.5	-56.42	-13	-43.42	0-360	149	H
848.8MHz												
1	1.696	-69.06	Pk	28.9	-31.4	12.6	-58.96	-13	-45.96	0-360	149	H
4	1.698	-71.13	Pk	28.9	-31.3	12.9	-60.63	-13	-47.63	0-360	149	V
2	2.546	-67.25	Pk	32.3	-30.4	12.1	-53.25	-13	-40.25	0-360	149	H
5	2.546	-69.44	Pk	32.3	-30.4	11.9	-55.64	-13	-42.64	0-360	149	V
6	3.37	-72.26	Pk	32.6	-29.3	11.7	-57.26	-13	-44.26	0-360	149	V
3	3.391	-73.14	Pk	32.6	-29.2	11.2	-58.54	-13	-45.54	0-360	149	H

Company:	Samsung
Project #:	12563734
Date:	10/30/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	GPRS 1900
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1852.2MHz												
4	3.689	-71.72	Pk	33	-28.8	11.7	-55.82	-13	-42.82	0-360	149	V
1	3.696	-71.58	Pk	33	-28.9	11.3	-56.18	-13	-43.18	0-360	149	H
5	5.525	-73.45	Pk	35	-26.9	11.3	-54.05	-13	-41.05	0-360	149	V
2	5.551	-70.14	Pk	35	-26.7	10.8	-51.04	-13	-38.04	0-360	149	H
3	7.398	-74.31	Pk	35.6	-23.1	10.6	-51.21	-13	-38.21	0-360	149	H
6	7.411	-74.58	Pk	35.6	-22.9	10.9	-50.98	-13	-37.98	0-360	149	V
1880MHz												
4	3.756	-71.93	Pk	33.2	-28.8	11.3	-56.23	-13	-43.23	0-360	149	V
1	3.76	-70.73	Pk	33.2	-28.8	11.6	-54.73	-13	-41.73	0-360	149	H
2	5.629	-73.45	Pk	35.1	-26.9	10.5	-54.75	-13	-41.75	0-360	149	H
5	5.63	-71.7	Pk	35.1	-26.9	10.7	-52.8	-13	-39.8	0-360	149	V
3	7.514	-75.83	Pk	35.7	-23.1	10.5	-52.73	-13	-39.73	0-360	149	H
6	7.529	-75.3	Pk	35.7	-22.9	10.6	-51.9	-13	-38.9	0-360	149	V
1909.8MHz												
4	3.804	-71.38	Pk	33.2	-28.3	11.4	-55.08	-13	-42.08	0-360	149	V
1	3.814	-71.81	Pk	33.1	-28.5	11.4	-55.81	-13	-42.81	0-360	149	H
5	5.67	-73.85	Pk	35	-26.6	10.7	-54.75	-13	-41.75	0-360	149	V
2	5.708	-73.07	Pk	35	-26.3	10.6	-53.77	-13	-40.77	0-360	149	H
6	7.591	-74.35	Pk	35.7	-22.6	10.7	-50.55	-13	-37.55	0-360	149	V
3	7.63	-75.34	Pk	35.7	-23	10.7	-51.94	-13	-38.94	0-360	149	H

Company:	Samsung
Project #:	12563734
Date:	10/30/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	EGPRS 1900
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1852.2MHz												
4	3.689	-72.06	Pk	33	-28.8	11.7	-56.16	-13	-43.16	0-360	149	V
1	3.702	-71.61	Pk	33.1	-29	11.2	-56.31	-13	-43.31	0-360	149	H
5	5.525	-72.39	Pk	35	-26.9	11.3	-52.99	-13	-39.99	0-360	149	V
2	5.542	-71.86	Pk	35	-26.8	11.1	-52.56	-13	-39.56	0-360	149	H
6	7.385	-74.77	Pk	35.6	-23.2	11.2	-51.17	-13	-38.17	0-360	149	V
3	7.398	-74.53	Pk	35.6	-23.1	10.6	-51.43	-13	-38.43	0-360	149	H
1880MHz												
4	3.744	-71.25	Pk	33.1	-28.8	11.4	-55.55	-13	-42.55	0-360	149	V
1	3.759	-70.63	Pk	33.2	-28.8	11.5	-54.73	-13	-41.73	0-360	149	H
2	5.735	-72.67	Pk	35	-26.5	10.4	-53.77	-13	-40.77	0-360	149	H
5	5.755	-73.28	Pk	35	-26.3	10.7	-53.88	-13	-40.88	0-360	149	V
6	7.503	-75.54	Pk	35.7	-23.2	11.1	-51.94	-13	-38.94	0-360	149	V
3	7.513	-75.14	Pk	35.7	-23.1	10.5	-52.04	-13	-39.04	0-360	149	H
1909.8MHz												
4	3.797	-71.47	Pk	33.2	-28.5	11.3	-55.47	-13	-42.47	0-360	149	V
1	3.817	-71.73	Pk	33.1	-28.6	11.6	-55.63	-13	-42.63	0-360	149	H
5	5.705	-72.54	Pk	35	-26.3	10.7	-53.14	-13	-40.14	0-360	149	V
2	5.716	-72.43	Pk	35	-26.2	10.5	-53.13	-13	-40.13	0-360	149	H
6	7.59	-73.62	Pk	35.7	-22.7	10.7	-49.92	-13	-36.92	0-360	149	V
3	7.63	-72.93	Pk	35.7	-23	10.7	-49.53	-13	-36.53	0-360	149	H

10.2.2. WCDMA

Company:	Samsung
Project #:	12563734
Date:	10/30/18
Test Engineer:	19480
Configuration:	EUT+ Support Equipment
Mode:	REL99 B5
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
826.4MHz												
1	1.655	-68.36	Pk	28.7	-33.2	10.7	-62.16	-13	-49.16	0-360	149	H
2	1.655	-69.85	Pk	28.7	-33.2	9.6	-64.75	-13	-51.75	0-360	149	V
3	2.478	-69.56	Pk	32.6	-32.3	8.7	-60.56	-13	-47.56	0-360	149	H
4	2.481	-71.27	Pk	32.6	-32.3	8.7	-62.27	-13	-49.27	0-360	149	V
6	3.306	-71.28	Pk	32.9	-31	9.9	-59.48	-13	-46.48	0-360	149	V
5	3.307	-71.02	Pk	32.9	-30.9	9.6	-59.42	-13	-46.42	0-360	149	H
836.6MHz												
1	1.674	-70.21	Pk	29.1	-33.2	10.5	-63.81	-13	-50.81	0-360	149	H
2	1.674	-70.75	Pk	29.1	-33.2	9	-65.85	-13	-52.85	0-360	149	V
3	2.51	-70.89	Pk	32.7	-32.2	9.1	-61.29	-13	-48.29	0-360	149	H
4	2.51	-71.13	Pk	32.7	-32.2	9.3	-61.33	-13	-48.33	0-360	149	V
5	3.346	-71.17	Pk	32.9	-31	9.1	-60.17	-13	-47.17	0-360	149	H
6	3.347	-72.12	Pk	32.9	-31	9.3	-60.92	-13	-47.92	0-360	149	V
846.6MHz												
1	1.694	-69.37	Pk	29.5	-33.3	10.4	-62.77	-13	-49.77	0-360	149	H
2	1.694	-67.72	Pk	29.5	-33.3	9.7	-61.82	-13	-48.82	0-360	149	V
4	2.541	-70.21	Pk	32.7	-32	8.9	-60.61	-13	-47.61	0-360	149	V
3	2.544	-70.11	Pk	32.7	-32	9	-60.41	-13	-47.41	0-360	149	H
5	3.386	-71.26	Pk	32.8	-31.3	8.6	-61.16	-13	-48.16	0-360	149	H
6	3.387	-69.98	Pk	32.8	-31.3	8.7	-59.78	-13	-46.78	0-360	149	V

Company:	Samsung
Project #:	12563734
Date:	10/30/18
Test Engineer:	19480
Configuration:	EUT+ Support Equipment
Mode:	HSDPA B5
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
826.4MHz												
2	1.653	-69.73	Pk	28.7	-33.3	9.7	-64.63	-13	-51.63	0-360	149	V
1	1.655	-69.62	Pk	28.7	-33.2	10.8	-63.32	-13	-50.32	0-360	149	H
4	2.479	-70.59	Pk	32.6	-32.3	8.8	-61.49	-13	-48.49	0-360	149	V
3	2.48	-71.68	Pk	32.6	-32.3	8.7	-62.68	-13	-49.68	0-360	149	H
5	3.307	-71.61	Pk	32.9	-30.9	9.6	-60.01	-13	-47.01	0-360	149	H
6	3.308	-71.23	Pk	32.9	-30.9	9.9	-59.33	-13	-46.33	0-360	149	V
836.6MHz												
2	1.675	-69.64	Pk	29.1	-33.1	9	-64.64	-13	-51.64	0-360	149	V
1	1.676	-69.36	Pk	29.1	-33.1	10.5	-62.86	-13	-49.86	0-360	149	H
3	2.509	-70.63	Pk	32.7	-32.2	9.1	-61.03	-13	-48.03	0-360	149	H
4	2.51	-71.6	Pk	32.7	-32.2	9.3	-61.8	-13	-48.8	0-360	149	V
5	3.347	-70.92	Pk	32.9	-31	9.1	-59.92	-13	-46.92	0-360	149	H
6	3.347	-72.33	Pk	32.9	-31	9.3	-61.13	-13	-48.13	0-360	149	V
846.6MHz												
2	1.692	-68.19	Pk	29.4	-33.2	9.7	-62.29	-13	-49.29	0-360	149	V
1	1.694	-70.1	Pk	29.5	-33.3	10.4	-63.5	-13	-50.5	0-360	149	H
3	2.539	-69.28	Pk	32.7	-32	8.8	-59.78	-13	-46.78	0-360	149	H
4	2.543	-70.06	Pk	32.7	-32	8.9	-60.46	-13	-47.46	0-360	149	V
6	3.387	-70.58	Pk	32.8	-31.3	8.7	-60.38	-13	-47.38	0-360	149	V
5	3.389	-70.62	Pk	32.8	-31.3	8.6	-60.52	-13	-47.52	0-360	149	H

Company:	Samsung
Project #:	12563734
Date:	10/30/18
Test Engineer:	19480
Configuration:	EUT+ Support Equipment
Mode:	REL99 B2
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1852.4MHz												
4	3.706	-69.95	Pk	33.2	-30.9	10	-57.65	-13	-44.65	0-360	149	V
3	3.707	-69.73	Pk	33.2	-30.9	10.2	-57.23	-13	-44.23	0-360	149	H
5	5.555	-70.96	Pk	35.4	-29.6	8.9	-56.26	-13	-43.26	0-360	149	H
6	5.558	-71.41	Pk	35.4	-29.7	8.8	-56.91	-13	-43.91	0-360	149	V
7	7.408	-70.85	Pk	36.2	-27.5	6.9	-55.25	-13	-42.25	0-360	149	H
8	7.411	-70.64	Pk	36.2	-27.5	7.1	-54.84	-13	-41.84	0-360	149	V
1880MHz												
3	3.758	-69.14	Pk	33.3	-31.1	9.3	-57.64	-13	-44.64	0-360	149	H
4	3.761	-70.12	Pk	33.3	-31	9.7	-58.12	-13	-45.12	0-360	149	V
5	5.636	-70.85	Pk	35.5	-29.4	8.5	-56.25	-13	-43.25	0-360	149	H
6	5.641	-71.96	Pk	35.5	-29.4	8.1	-57.76	-13	-44.76	0-360	149	V
8	7.52	-68.87	Pk	36.2	-27.3	7.4	-52.57	-13	-39.57	0-360	149	V
7	7.525	-69.1	Pk	36.2	-27.4	7.4	-52.9	-13	-39.9	0-360	149	H
1907.6MHz												
3	3.811	-68.99	Pk	33.4	-30.5	9.3	-56.79	-13	-43.79	0-360	149	H
4	3.815	-70.43	Pk	33.4	-30.5	9.7	-57.83	-13	-44.83	0-360	149	V
5	5.721	-71.79	Pk	35.5	-29.7	7.7	-58.29	-13	-45.29	0-360	149	H
6	5.723	-70.56	Pk	35.5	-29.7	7.8	-56.96	-13	-43.96	0-360	149	V
8	7.626	-68.06	Pk	36.4	-27	7.4	-51.26	-13	-38.26	0-360	149	V
7	7.627	-69.1	Pk	36.4	-27	7.4	-52.3	-13	-39.3	0-360	149	H

Company:	Samsung
Project #:	12563734
Date:	10/30/18
Test Engineer:	19480
Configuration:	EUT+ Support Equipment
Mode:	HSDPA B2
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1852.4MHz												
3	3.704	-70	Pk	33.2	-30.9	10.2	-57.5	-13	-44.5	0-360	149	H
4	3.706	-69.09	Pk	33.2	-30.9	10	-56.79	-13	-43.79	0-360	149	V
5	5.554	-70.48	Pk	35.4	-29.6	8.9	-55.78	-13	-42.78	0-360	149	H
6	5.557	-71.31	Pk	35.4	-29.7	8.8	-56.81	-13	-43.81	0-360	149	V
7	7.413	-72.72	Pk	36.2	-27.4	6.9	-57.02	-13	-44.02	0-360	149	H
8	7.413	-73.18	Pk	36.2	-27.4	7.2	-57.18	-13	-44.18	0-360	149	V
1880MHz												
4	3.76	-70.29	Pk	33.3	-31.1	9.6	-58.49	-13	-45.49	0-360	149	V
3	3.764	-69.58	Pk	33.3	-31	9.3	-57.98	-13	-44.98	0-360	149	H
5	5.642	-70.78	Pk	35.5	-29.4	8.1	-56.58	-13	-43.58	0-360	149	H
6	5.643	-71.72	Pk	35.5	-29.4	7.9	-57.72	-13	-44.72	0-360	149	V
7	7.52	-74.51	Pk	36.2	-27.3	7.5	-58.11	-13	-45.11	0-360	149	H
8	7.52	-72.8	Pk	36.2	-27.3	7.4	-56.5	-13	-43.5	0-360	149	V
1907.6MHz												
4	3.813	-70.7	Pk	33.4	-30.5	9.6	-58.2	-13	-45.2	0-360	149	V
3	3.816	-70.32	Pk	33.4	-30.5	9.4	-58.02	-13	-45.02	0-360	149	H
6	5.722	-70.58	Pk	35.5	-29.7	7.7	-57.08	-13	-44.08	0-360	149	V
5	5.727	-71.59	Pk	35.5	-29.6	8	-57.69	-13	-44.69	0-360	149	H
7	7.631	-72.35	Pk	36.4	-27	7.4	-55.55	-13	-42.55	0-360	149	H
8	7.631	-72.66	Pk	36.4	-27	7.4	-55.86	-13	-42.86	0-360	149	V

Company:	Samsung
Project #:	12563734
Date:	10/30/18
Test Engineer:	19480
Configuration:	EUT+ Support Equipment
Mode:	REL99 B4
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1712.4MHz												
3	3.426	-69.77	Pk	32.8	-31.5	9	-59.47	-13	-46.47	0-360	149	H
4	3.426	-70.85	Pk	32.8	-31.5	9.2	-60.35	-13	-47.35	0-360	149	V
5	5.139	-70.31	Pk	34.6	-30.1	8.5	-57.31	-13	-44.31	0-360	149	H
6	5.14	-71.08	Pk	34.6	-30.1	8.4	-58.18	-13	-45.18	0-360	149	V
8	6.851	-72.59	Pk	35.8	-28.1	6.7	-58.19	-13	-45.19	0-360	149	V
7	6.853	-72.59	Pk	35.8	-28	6.8	-57.99	-13	-44.99	0-360	149	H
1732.6MHz												
4	3.467	-71.73	Pk	32.9	-31.3	9.3	-60.83	-13	-47.83	0-360	149	V
3	3.468	-70.82	Pk	32.9	-31.2	9.7	-59.42	-13	-46.42	0-360	149	H
5	5.195	-71.14	Pk	34.7	-29.8	9.1	-57.14	-13	-44.14	0-360	149	H
6	5.198	-71.22	Pk	34.7	-29.8	9.3	-57.02	-13	-44.02	0-360	149	V
7	6.929	-72.37	Pk	35.8	-27.9	6.8	-57.67	-13	-44.67	0-360	149	H
8	6.933	-71.81	Pk	35.8	-28	6.7	-57.31	-13	-44.31	0-360	149	V
1752.6MHz												
3	3.504	-70.86	Pk	32.9	-31	9.7	-59.26	-13	-46.26	0-360	149	H
4	3.505	-71.31	Pk	32.9	-31	9.8	-59.61	-13	-46.61	0-360	149	V
6	5.258	-70.97	Pk	34.8	-29.8	8.6	-57.37	-13	-44.37	0-360	149	V
5	5.261	-70.41	Pk	34.8	-29.7	8.7	-56.61	-13	-43.61	0-360	149	H
8	7.007	-72.71	Pk	35.9	-27.9	7.1	-57.61	-13	-44.61	0-360	149	V
7	7.01	-72.32	Pk	35.9	-27.8	7.1	-57.12	-13	-44.12	0-360	149	H

Company:	Samsung
Project #:	12563734
Date:	10/30/18
Test Engineer:	19480
Configuration:	EUT+ Support Equipment
Mode:	HSDPA B4
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1712.4MHz												
3	3.422	-70.37	Pk	32.8	-31.4	8.9	-60.07	-13	-47.07	0-360	149	H
4	3.427	-69.69	Pk	32.8	-31.5	9.1	-59.29	-13	-46.29	0-360	149	V
6	5.135	-69.6	Pk	34.6	-30	8.1	-56.9	-13	-43.9	0-360	149	V
5	5.14	-70.81	Pk	34.6	-30.1	8.5	-57.81	-13	-44.81	0-360	149	H
8	6.849	-72.29	Pk	35.8	-28.2	6.7	-57.99	-13	-44.99	0-360	149	V
7	6.851	-71.42	Pk	35.8	-28.1	6.7	-57.02	-13	-44.02	0-360	149	H
1732.6MHz												
4	3.467	-70.11	Pk	32.9	-31.3	9.3	-59.21	-13	-46.21	0-360	149	V
3	3.469	-70.58	Pk	32.9	-31.2	9.7	-59.18	-13	-46.18	0-360	149	H
6	5.197	-71.71	Pk	34.7	-29.8	9.1	-57.71	-13	-44.71	0-360	149	V
5	5.202	-72.58	Pk	34.7	-29.8	9.3	-58.38	-13	-45.38	0-360	149	H
7	6.928	-71.23	Pk	35.8	-27.9	6.8	-56.53	-13	-43.53	0-360	149	H
8	6.93	-72.7	Pk	35.8	-28	6.8	-58.1	-13	-45.1	0-360	149	V
1752.6MHz												
4	3.505	-71.52	Pk	32.9	-31	9.8	-59.82	-13	-46.82	0-360	149	V
3	3.506	-70.22	Pk	32.9	-31	9.7	-58.62	-13	-45.62	0-360	149	H
6	5.259	-71.19	Pk	34.8	-29.8	8.6	-57.59	-13	-44.59	0-360	149	V
5	5.261	-70.9	Pk	34.8	-29.7	8.7	-57.1	-13	-44.1	0-360	149	H
7	7.009	-72.64	Pk	35.9	-27.8	7.1	-57.44	-13	-44.44	0-360	149	H
8	7.01	-72.79	Pk	35.9	-27.8	7.1	-57.59	-13	-44.59	0-360	149	V

10.2.3. LTE BAND 2

Company:	Samsung
Project #:	12563734
Date:	10/29/18
Test Engineer:	19498
Configuration:	EUT+ Support Equipment
Mode:	LTE 2 QPSK 20MHz
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1860MHz												
4	3.718	-71.17	Pk	33.3	-31.1	9.7	-59.27	-13	-46.27	0-360	149	V
1	3.723	-70.79	Pk	33.3	-31.1	10.1	-58.49	-13	-45.49	0-360	149	H
5	5.678	-71.04	Pk	35.5	-29.3	8.5	-56.34	-13	-43.34	0-360	149	V
2	5.68	-69.68	Pk	35.5	-29.5	8.1	-55.58	-13	-42.58	0-360	149	H
3	7.404	-68.91	Pk	36.2	-27.4	7	-53.11	-13	-40.11	0-360	149	H
6	7.404	-66.71	Pk	36.2	-27.4	7	-50.91	-13	-37.91	0-360	149	V
1880MHz												
1	3.776	-69.11	Pk	33.4	-30.9	10	-56.61	-13	-43.61	0-360	149	H
4	3.777	-69.98	Pk	33.4	-30.9	9.9	-57.58	-13	-44.58	0-360	149	V
5	5.651	-71.79	Pk	35.5	-29.3	8.1	-57.49	-13	-44.49	0-360	149	V
2	5.654	-70.34	Pk	35.5	-29.1	8.4	-55.54	-13	-42.54	0-360	149	H
6	7.516	-72.49	Pk	36.2	-27.3	7.5	-56.09	-13	-43.09	0-360	149	V
3	7.527	-72.28	Pk	36.2	-27.3	7.5	-55.88	-13	-42.88	0-360	149	H
1900MHz												
4	3.795	-70.09	Pk	33.4	-30.6	9.5	-57.79	-13	-44.79	0-360	149	V
1	3.801	-69.9	Pk	33.4	-30.6	9.9	-57.2	-13	-44.2	0-360	149	H
5	5.685	-71.22	Pk	35.5	-29.5	8	-57.22	-13	-44.22	0-360	149	V
2	5.69	-69.32	Pk	35.5	-29.4	8	-55.22	-13	-42.22	0-360	149	H
3	7.564	-66.64	Pk	36.3	-27.4	7.4	-50.34	-13	-37.34	0-360	149	H
6	7.565	-64.16	Pk	36.3	-27.4	7.4	-47.86	-13	-34.86	0-360	149	V

Company:	Samsung
Project #:	12563734
Date:	10/29/18
Test Engineer:	19498
Configuration:	EUT+ Support Equipment
Mode:	LTE 2 16QAM 20MHz
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1860MHz												
4	3.725	-71.14	Pk	33.3	-31.1	10	-58.94	-13	-45.94	0-360	149	V
1	3.732	-69.93	Pk	33.3	-31.1	9.9	-57.83	-13	-44.83	0-360	149	H
5	5.566	-72	Pk	35.5	-29.7	8.8	-57.4	-13	-44.4	0-360	149	V
2	5.574	-70.78	Pk	35.5	-30	8.3	-56.98	-13	-43.98	0-360	149	H
3	7.443	-72.85	Pk	36.1	-27.2	7	-56.95	-13	-43.95	0-360	149	H
6	7.444	-72.48	Pk	36.1	-27.2	6.9	-56.68	-13	-43.68	0-360	149	V
1880MHz												
4	3.761	-68.7	Pk	33.3	-31	9.7	-56.7	-13	-43.7	0-360	149	V
1	3.762	-69.97	Pk	33.3	-31	9.3	-58.37	-13	-45.37	0-360	149	H
5	5.651	-70.11	Pk	35.5	-29.3	8.1	-55.81	-13	-42.81	0-360	149	V
2	5.659	-70.77	Pk	35.5	-29	8.5	-55.77	-13	-42.77	0-360	149	H
3	7.523	-72.12	Pk	36.2	-27.4	7.4	-55.92	-13	-42.92	0-360	149	H
6	7.523	-72.41	Pk	36.2	-27.4	7.4	-56.21	-13	-43.21	0-360	149	V
1900MHz												
4	3.792	-69.79	Pk	33.4	-30.7	9.7	-57.39	-13	-44.39	0-360	149	V
1	3.799	-69.26	Pk	33.4	-30.7	9.9	-56.66	-13	-43.66	0-360	149	H
5	5.716	-69.21	Pk	35.5	-29.5	7.8	-55.41	-13	-42.41	0-360	149	V
2	5.72	-69.65	Pk	35.5	-29.7	7.6	-56.25	-13	-43.25	0-360	149	H
3	7.564	-67.72	Pk	36.3	-27.4	7.4	-51.42	-13	-38.42	0-360	149	H
6	7.565	-64.45	Pk	36.3	-27.4	7.4	-48.15	-13	-35.15	0-360	149	V

10.2.4. LTE BAND 4

Company:	Samsung
Project #:	12563734
Date:	10/29/18
Test Engineer:	19480
Configuration:	EUT+ Support Equipment
Mode:	LTE 4 QPSK 20MHz
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1720MHz												
4	3.44	-67.49	Pk	32.9	-31.6	8.9	-57.29	-13	-44.29	0-360	149	V
3	3.441	-70.13	Pk	32.9	-31.6	8.8	-60.03	-13	-47.03	0-360	149	H
5	5.155	-70.69	Pk	34.6	-29.8	9.1	-56.79	-13	-43.79	0-360	149	H
6	5.16	-55.85	Pk	34.6	-29.8	9.4	-41.65	-13	-28.65	0-360	149	V
8	6.879	-72.54	Pk	35.8	-28.5	6.8	-58.44	-13	-45.44	0-360	149	V
7	6.882	-71.58	Pk	35.8	-28.4	6.7	-57.48	-13	-44.48	0-360	149	H
1732.5MHz												
3	3.464	-69.19	Pk	32.9	-31.3	9.6	-57.99	-13	-44.99	0-360	149	H
4	3.469	-70.52	Pk	32.9	-31.2	9.2	-59.62	-13	-46.62	0-360	149	V
5	5.197	-57.47	Pk	34.7	-29.8	9.2	-43.37	-13	-30.37	0-360	149	H
6	5.197	-54.21	Pk	34.7	-29.8	9.2	-40.11	-13	-27.11	0-360	149	V
8	6.93	-73.19	Pk	35.8	-28	6.8	-58.59	-13	-45.59	0-360	149	V
7	6.934	-72.05	Pk	35.8	-28	6.6	-57.65	-13	-44.65	0-360	149	H
1745MHz												
4	3.489	-67.75	Pk	32.9	-31.2	9.5	-56.55	-13	-43.55	0-360	149	V
3	3.49	-67.48	Pk	32.9	-31.2	9.5	-56.28	-13	-43.28	0-360	149	H
5	5.235	-57.86	Pk	34.8	-29.6	9.1	-43.56	-13	-30.56	0-360	149	H
6	5.235	-57.69	Pk	34.8	-29.6	8.7	-43.79	-13	-30.79	0-360	149	V
7	6.979	-72.28	Pk	35.9	-27.9	6.9	-57.38	-13	-44.38	0-360	149	H
8	6.982	-72.64	Pk	35.9	-27.9	6.9	-57.74	-13	-44.74	0-360	149	V

Company:	Samsung
Project #:	12563734
Date:	10/29/18
Test Engineer:	19480
Configuration:	EUT+ Support Equipment
Mode:	LTE 4 16QAM 20MHz
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1720MHz												
3	3.437	-70.2	Pk	32.8	-31.6	8.8	-60.2	-13	-47.2	0-360	149	H
4	3.438	-70.08	Pk	32.9	-31.7	8.9	-59.98	-13	-46.98	0-360	149	V
6	5.162	-70.26	Pk	34.6	-29.7	9.4	-55.96	-13	-42.96	0-360	149	V
5	5.165	-71.61	Pk	34.6	-29.6	9.4	-57.21	-13	-44.21	0-360	149	H
8	6.881	-72.22	Pk	35.8	-28.4	6.8	-58.02	-13	-45.02	0-360	149	V
7	6.883	-71.13	Pk	35.8	-28.4	6.7	-57.03	-13	-44.03	0-360	149	H
1732.5MHz												
3	3.464	-70.59	Pk	32.9	-31.3	9.6	-59.39	-13	-46.39	0-360	149	H
4	3.466	-71.09	Pk	32.9	-31.3	9.3	-60.19	-13	-47.19	0-360	149	V
5	5.199	-71.17	Pk	34.7	-29.8	9.3	-56.97	-13	-43.97	0-360	149	H
6	5.201	-70.57	Pk	34.7	-29.8	9.4	-56.27	-13	-43.27	0-360	149	V
8	6.929	-72.12	Pk	35.8	-27.9	6.9	-57.32	-13	-44.32	0-360	149	V
7	6.935	-72.22	Pk	35.8	-28	6.7	-57.72	-13	-44.72	0-360	149	H
1745MHz												
3	3.49	-68.89	Pk	32.9	-31.2	9.5	-57.69	-13	-44.69	0-360	149	H
4	3.49	-69.29	Pk	32.9	-31.2	9.6	-57.99	-13	-44.99	0-360	149	V
5	5.235	-59.69	Pk	34.8	-29.6	9.1	-45.39	-13	-32.39	0-360	149	H
6	5.235	-60.45	Pk	34.8	-29.6	8.7	-46.55	-13	-33.55	0-360	149	V
8	6.976	-71.19	Pk	35.9	-27.9	7	-56.19	-13	-43.19	0-360	149	V
7	6.979	-72.11	Pk	35.9	-27.9	6.9	-57.21	-13	-44.21	0-360	149	H

10.2.5. LTE BAND 5

Company:	Samsung
Project #:	12563734
Date:	10/26/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	LTE 5 QPSK 10MHz
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
829MHz												
4	1.649	-70.48	Pk	28.5	-31.5	11.2	-62.28	-13	-49.28	0-360	149	V
1	1.657	-70.08	Pk	28.6	-31.7	12.4	-60.78	-13	-47.78	0-360	149	H
5	2.476	-71.58	Pk	32.3	-30.5	11.5	-58.28	-13	-45.28	0-360	149	V
2	2.484	-71.21	Pk	32.3	-30.5	11.1	-58.31	-13	-45.31	0-360	149	H
6	3.292	-70.27	Pk	32.8	-29.2	11.2	-55.47	-13	-42.47	0-360	149	V
3	3.308	-71.79	Pk	32.8	-29.2	11.3	-56.89	-13	-43.89	0-360	149	H
836.5MHz												
4	1.67	-70.25	Pk	28.7	-31.6	11.6	-61.55	-13	-48.55	0-360	149	V
1	1.674	-70.86	Pk	28.7	-31.6	12.5	-61.26	-13	-48.26	0-360	149	H
5	2.496	-70.42	Pk	32.4	-30.5	12	-56.52	-13	-43.52	0-360	149	V
2	2.506	-70.68	Pk	32.4	-30.4	11.3	-57.38	-13	-44.38	0-360	149	H
6	3.337	-71.22	Pk	32.7	-29	11	-56.52	-13	-43.52	0-360	149	V
3	3.344	-71.76	Pk	32.7	-29	10.4	-57.66	-13	-44.66	0-360	149	H
844MHz												
4	1.679	-71.17	Pk	28.8	-31.5	10.9	-62.97	-13	-49.97	0-360	149	V
1	1.682	-71.66	Pk	28.8	-31.5	12.2	-62.16	-13	-49.16	0-360	149	H
5	2.525	-70.66	Pk	32.4	-30.4	12.1	-56.56	-13	-43.56	0-360	149	V
2	2.527	-69.89	Pk	32.4	-30.4	12.1	-55.79	-13	-42.79	0-360	149	H
6	3.364	-71.48	Pk	32.7	-29.2	11.7	-56.28	-13	-43.28	0-360	149	V
3	3.374	-71.81	Pk	32.6	-29.1	11.4	-56.91	-13	-43.91	0-360	149	H

Company:	Samsung
Project #:	12563734
Date:	10/26/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	LTE 5 16QAM 10MHz
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
829MHz												
1	1.658	-70.74	Pk	28.6	-31.6	12.3	-61.44	-13	-48.44	0-360	149	H
4	1.664	-69.76	Pk	28.6	-31.7	11.6	-61.26	-13	-48.26	0-360	149	V
5	2.474	-71.77	Pk	32.3	-30.6	11.6	-58.47	-13	-45.47	0-360	149	V
2	2.48	-70.65	Pk	32.3	-30.5	11.3	-57.55	-13	-44.55	0-360	149	H
3	3.316	-70.89	Pk	32.7	-29.1	11.3	-55.99	-13	-42.99	0-360	149	H
6	3.323	-70.89	Pk	32.7	-29	10.9	-56.29	-13	-43.29	0-360	149	V
836.5MHz												
4	1.67	-70.99	Pk	28.7	-31.6	11.6	-62.29	-13	-49.29	0-360	149	V
1	1.676	-70.94	Pk	28.7	-31.6	12.3	-61.54	-13	-48.54	0-360	149	H
5	2.493	-71.32	Pk	32.4	-30.5	11.7	-57.72	-13	-44.72	0-360	149	V
2	2.502	-70.92	Pk	32.4	-30.5	11.2	-57.82	-13	-44.82	0-360	149	H
6	3.332	-71.4	Pk	32.7	-28.9	10.9	-56.7	-13	-43.7	0-360	149	V
3	3.34	-72.26	Pk	32.7	-29	10.6	-57.96	-13	-44.96	0-360	149	H
844MHz												
4	1.674	-70.87	Pk	28.7	-31.6	11.3	-62.47	-13	-49.47	0-360	149	V
1	1.686	-71.48	Pk	28.8	-31.5	12.3	-61.88	-13	-48.88	0-360	149	H
5	2.514	-70.8	Pk	32.4	-30.5	11.7	-57.2	-13	-44.2	0-360	149	V
2	2.53	-71.64	Pk	32.4	-30.5	12.2	-57.54	-13	-44.54	0-360	149	H
6	3.355	-70.66	Pk	32.7	-29.2	11.6	-55.56	-13	-42.56	0-360	149	V
3	3.373	-71.96	Pk	32.6	-29.2	11.4	-57.16	-13	-44.16	0-360	149	H

10.2.6. LTE BAND 12

Company:	Samsung
Project #:	12563734
Date:	10/27/18
Test Engineer:	38602
Configuration:	EUT+ Support Equipment
Mode:	LTE 12 QPSK 10MHz
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
704MHz												
4	1.396	-69.97	Pk	28.7	-31.7	12.6	-60.37	-13	-47.37	0-360	149	V
1	1.402	-69.93	Pk	28.6	-31.9	13.1	-60.13	-13	-47.13	0-360	149	H
2	2.082	-69.57	Pk	31.2	-31	12.2	-57.17	-13	-44.17	0-360	149	H
5	2.09	-70.03	Pk	31.2	-30.9	12	-57.73	-13	-44.73	0-360	149	V
3	2.836	-70.58	Pk	32.2	-29.5	11.9	-55.98	-13	-42.98	0-360	149	H
6	2.836	-71.21	Pk	32.2	-29.5	11.7	-56.81	-13	-43.81	0-360	149	V
707.5MHz												
1	1.406	-68.38	Pk	28.6	-31.7	12.9	-58.58	-13	-45.58	0-360	149	H
2	2.869	-69.87	Pk	32.2	-29.7	11.7	-55.67	-13	-42.67	0-360	149	H
3	1.399	-69.75	Pk	28.6	-31.8	12.7	-60.25	-13	-47.25	0-360	149	V
4	2.877	-71.34	Pk	32.2	-29.7	12.6	-56.24	-13	-43.24	0-360	149	V
6	2.134	-70.4	Pk	31.1	-30.8	13.3	-56.8	-13	-43.8	0-360	149	V
5	2.142	-71.06	Pk	31.1	-30.7	12	-58.66	-13	-45.66	0-360	149	H
711MHz												
1	1.408	-70.89	Pk	28.6	-31.7	12.7	-61.29	-13	-48.29	0-360	149	H
5	1.454	-69.53	Pk	28.7	-31.9	12.3	-60.43	-13	-47.43	0-360	149	V
2	2.148	-71.59	Pk	31.1	-30.8	12.1	-59.19	-13	-46.19	0-360	149	H
6	2.17	-69.84	Pk	31.1	-30.6	12.1	-57.24	-13	-44.24	0-360	149	V
3	2.869	-70.77	Pk	32.2	-29.7	11.7	-56.57	-13	-43.57	0-360	149	H
4	2.883	-69.99	Pk	32.2	-29.6	12.4	-54.99	-13	-41.99	0-360	149	V

Company:	Samsung
Project #:	12563734
Date:	10/27/18
Test Engineer:	38602
Configuration:	EUT+ Support Equipment
Mode:	LTE 12 16QAM 10MHz
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
704MHz												
5	1.395	-69.67	Pk	28.7	-31.8	12.5	-60.27	-13	-47.27	0-360	149	V
1	1.409	-69.62	Pk	28.6	-31.7	12.7	-60.02	-13	-47.02	0-360	149	H
2	2.111	-69.62	Pk	31.1	-31.1	12.4	-57.22	-13	-44.22	0-360	149	H
6	2.12	-70.95	Pk	31.1	-31	12.5	-58.35	-13	-45.35	0-360	149	V
3	2.745	-70.02	Pk	32.4	-30.3	12.8	-55.12	-13	-42.12	0-360	149	H
4	2.829	-71.66	Pk	32.2	-29.5	11.8	-57.16	-13	-44.16	0-360	149	H
707.5MHz												
1	* 1.406	-68.2	Pk	28.6	-31.7	12.9	-58.4	-13	-45.4	0-360	149	H
4	* 2.882	-69.54	Pk	32.2	-29.5	11.6	-55.24	-13	-42.24	0-360	149	H
5	* 1.406	-70.29	Pk	28.6	-31.7	12.4	-60.99	-13	-47.99	0-360	149	V
3	* 2.876	-70.5	Pk	32.2	-29.7	12.6	-55.4	-13	-42.4	0-360	149	V
2	2.138	-70.17	Pk	31.1	-30.8	12.2	-57.67	-13	-44.67	0-360	149	H
6	2.148	-70.2	Pk	31.1	-30.8	12.4	-57.5	-13	-44.5	0-360	149	V
711MHz												
1	1.398	-70.12	Pk	28.6	-31.8	12.7	-60.62	-13	-47.62	0-360	149	V
2	1.406	-71.95	Pk	28.6	-31.7	12.9	-62.15	-13	-49.15	0-360	149	H
3	2.144	-69.57	Pk	31.1	-30.7	12	-57.17	-13	-44.17	0-360	149	H
6	2.148	-69.71	Pk	31.1	-30.8	12.4	-57.01	-13	-44.01	0-360	149	V
4	2.845	-71.95	Pk	32.1	-29.7	11.8	-57.75	-13	-44.75	0-360	149	H
5	2.85	-71.08	Pk	32.1	-29.7	12	-56.68	-13	-43.68	0-360	149	V

10.2.7. LTE BAND 13

Company:	Samsung
Project #:	12563734
Date:	10/27/18
Test Engineer:	38602
Configuration:	EUT+ Support Equipment
Mode:	LTE 13 QPSK 10MHz
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
782MHz												
4	1.559	-70.16	Pk	27.9	-31.7	11.9	-62.06	-40	-22.06	0-360	149	V
1	1.566	-70.98	Pk	27.9	-31.6	11.8	-62.88	-40	-22.88	0-360	149	H
2	2.356	-69.89	Pk	31.6	-30.5	12.9	-55.89	-13	-42.89	0-360	149	H
6	2.367	-70.85	Pk	31.7	-30.4	12.4	-57.15	-13	-44.15	0-360	149	V
8	3.145	-71.39	Pk	32.8	-29.3	11.3	-56.59	-13	-43.59	0-360	149	V
3	3.165	-71.43	Pk	32.9	-29.2	11	-56.73	-13	-43.73	0-360	149	H

Company:	Samsung
Project #:	12563734
Date:	10/27/18
Test Engineer:	38602
Configuration:	EUT+ Support Equipment
Mode:	LTE 13 16QAM 10MHz
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
782MHz												
1	1.563	-70.78	Pk	27.9	-31.6	11.6	-62.88	-40	-22.88	0-360	149	H
5	1.567	-70.45	Pk	27.9	-31.6	12.1	-62.05	-40	-22.05	0-360	149	V
2	2.332	-69.99	Pk	31.6	-30.7	12.5	-56.59	-13	-43.59	0-360	149	H
6	2.342	-71.17	Pk	31.6	-30.6	12.9	-57.27	-13	-44.27	0-360	149	V
7	3.137	-70.58	Pk	32.8	-29.4	11.3	-55.88	-13	-42.88	0-360	149	V
4	3.138	-71.02	Pk	32.8	-29.5	11.6	-56.12	-13	-43.12	0-360	149	H

10.2.8. LTE BAND 17

Company:	Samsung
Project #:	12563734
Date:	10/29/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	LTE 17 QPSK 10MHz
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
709MHz												
4	1.412	-71.42	Pk	28.6	-31.7	11.6	-62.92	-13	-49.92	0-360	149	V
1	1.415	-68.96	Pk	28.7	-31.7	11.3	-60.66	-13	-47.66	0-360	149	H
5	2.128	-71.7	Pk	31.1	-30.8	13.3	-58.1	-13	-45.1	0-360	149	V
2	2.129	-71.4	Pk	31.1	-30.8	12.6	-58.5	-13	-45.5	0-360	149	H
6	2.833	-71.57	Pk	32.2	-29.6	11.8	-57.17	-13	-44.17	0-360	149	V
3	2.837	-71.84	Pk	32.2	-29.5	11.8	-57.34	-13	-44.34	0-360	149	H
710MHz												
4	1.411	-62.81	Pk	28.6	-31.7	11.7	-54.21	-13	-41.21	0-360	149	V
1	1.414	-70.99	Pk	28.7	-31.7	11.5	-62.49	-13	-49.49	0-360	149	H
2	2.126	-71.42	Pk	31.1	-30.9	12.7	-58.52	-13	-45.52	0-360	149	H
5	2.126	-71.64	Pk	31.1	-30.9	13.1	-58.34	-13	-45.34	0-360	149	V
3	2.845	-69.95	Pk	32.1	-29.7	11.8	-55.75	-13	-42.75	0-360	149	H
6	2.846	-71.76	Pk	32.1	-29.7	11.7	-57.66	-13	-44.66	0-360	149	V
711MHz												
4	1.421	-70.86	Pk	28.7	-31.7	10.6	-63.26	-13	-50.26	0-360	149	V
1	1.424	-70.75	Pk	28.7	-31.8	10.4	-63.45	-13	-50.45	0-360	149	H
5	2.12	-70.33	Pk	31.1	-31	12.5	-57.73	-13	-44.73	0-360	149	V
2	2.128	-70.62	Pk	31.1	-30.8	12.6	-57.72	-13	-44.72	0-360	149	H
6	2.831	-71.4	Pk	32.2	-29.5	11.9	-56.8	-13	-43.8	0-360	149	V
3	2.842	-71.64	Pk	32.2	-29.6	11.7	-57.34	-13	-44.34	0-360	149	H

Company:	Samsung
Project #:	12563734
Date:	10/29/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	LTE 17 16QAM 10MHz
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
709MHz												
4	1.412	-70.65	Pk	28.6	-31.7	11.6	-62.15	-13	-49.15	0-360	149	V
1	1.414	-71.43	Pk	28.7	-31.7	11.5	-62.93	-13	-49.93	0-360	149	H
5	2.117	-71.33	Pk	31.1	-31	12.2	-59.03	-13	-46.03	0-360	149	V
2	2.119	-71.12	Pk	31.1	-31	13.1	-57.92	-13	-44.92	0-360	149	H
3	2.832	-71.98	Pk	32.2	-29.5	11.9	-57.38	-13	-44.38	0-360	149	H
6	2.834	-69.39	Pk	32.2	-29.6	11.8	-54.99	-13	-41.99	0-360	149	V
710MHz												
4	1.411	-64.43	Pk	28.6	-31.7	11.7	-55.83	-13	-42.83	0-360	149	V
1	1.417	-70.74	Pk	28.7	-31.6	10.9	-62.74	-13	-49.74	0-360	149	H
2	2.125	-71.42	Pk	31.1	-30.9	12.9	-58.32	-13	-45.32	0-360	149	H
5	2.128	-71.1	Pk	31.1	-30.8	13.3	-57.5	-13	-44.5	0-360	149	V
3	2.834	-72.42	Pk	32.2	-29.6	11.9	-57.92	-13	-44.92	0-360	149	H
6	2.834	-71.93	Pk	32.2	-29.6	11.8	-57.53	-13	-44.53	0-360	149	V
711MHz												
4	1.417	-70.63	Pk	28.7	-31.6	10.7	-62.83	-13	-49.83	0-360	149	V
1	1.42	-70.11	Pk	28.7	-31.6	10.7	-62.31	-13	-49.31	0-360	149	H
5	2.119	-70.12	Pk	31.1	-31	12.4	-57.62	-13	-44.62	0-360	149	V
2	2.127	-71.57	Pk	31.1	-30.9	12.7	-58.67	-13	-45.67	0-360	149	H
6	2.828	-71.84	Pk	32.2	-29.6	12.2	-57.04	-13	-44.04	0-360	149	V
3	2.841	-71.86	Pk	32.2	-29.5	11.7	-57.46	-13	-44.46	0-360	149	H

10.2.9. LTE BAND 25

Company:	Samsung
Project #:	12563734
Date:	10/27/18
Test Engineer:	19498
Configuration:	EUT+ Support Equipment
Mode:	LTE 25 QPSK 20MHz
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1860MHz												
4	3.718	-70.43	Pk	33.3	-31.1	9.7	-58.53	-13	-45.53	0-360	149	V
1	3.721	-68.95	Pk	33.3	-31.1	9.9	-56.85	-13	-43.85	0-360	149	H
5	5.596	-69.29	Pk	35.5	-29.4	8.1	-55.09	-13	-42.09	0-360	149	V
2	5.597	-71.12	Pk	35.5	-29.4	8.1	-56.92	-13	-43.92	0-360	149	H
3	7.404	-68.38	Pk	36.2	-27.4	7	-52.58	-13	-39.58	0-360	149	H
6	7.404	-69.37	Pk	36.2	-27.4	7	-53.57	-13	-40.57	0-360	149	V
1882.5MHz												
1	3.747	-63.61	Pk	33.3	-31	9.9	-51.41	-13	-38.41	0-360	149	H
4	3.747	-65.83	Pk	33.3	-31	9.8	-53.73	-13	-40.73	0-360	149	V
2	5.56	-70.87	Pk	35.4	-29.6	9	-56.07	-13	-43.07	0-360	149	H
5	5.561	-68.7	Pk	35.4	-29.6	9	-53.9	-13	-40.9	0-360	149	V
3	7.494	-71.06	Pk	36.1	-26.8	7.7	-54.06	-13	-41.06	0-360	149	H
6	7.495	-66.68	Pk	36.1	-26.8	7.6	-49.78	-13	-36.78	0-360	149	V
1905MHz												
4	3.791	-68.89	Pk	33.4	-30.8	9.7	-56.59	-13	-43.59	0-360	149	V
1	3.792	-67.74	Pk	33.4	-30.7	10.3	-54.74	-13	-41.74	0-360	149	H
2	5.688	-67.96	Pk	35.5	-29.4	8.1	-53.76	-13	-40.76	0-360	149	H
5	5.688	-64.46	Pk	35.5	-29.4	7.9	-50.46	-13	-37.46	0-360	149	V
3	7.584	-67.14	Pk	36.3	-27.3	7	-51.14	-13	-38.14	0-360	149	H
6	7.584	-65.42	Pk	36.3	-27.3	7	-49.42	-13	-36.42	0-360	149	V

Company:	Samsung
Project #:	12563734
Date:	10/27/18
Test Engineer:	19498
Configuration:	EUT+ Support Equipment
Mode:	LTE 25 16QAM 20MHz
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1860MHz												
4	3.721	-70.41	Pk	33.3	-31.1	9.8	-58.41	-13	-45.41	0-360	149	V
1	3.726	-69.38	Pk	33.3	-31.1	10.1	-57.08	-13	-44.08	0-360	149	H
2	5.554	-69.61	Pk	35.4	-29.6	8.9	-54.91	-13	-41.91	0-360	149	H
5	5.562	-70.14	Pk	35.4	-29.5	9	-55.24	-13	-42.24	0-360	149	V
3	7.402	-70.19	Pk	36.2	-27.4	7.1	-54.29	-13	-41.29	0-360	149	H
6	7.404	-68.17	Pk	36.2	-27.4	7	-52.37	-13	-39.37	0-360	149	V
1882.5MHz												
1	3.747	-63.75	Pk	33.3	-31	9.9	-51.55	-13	-38.55	0-360	149	H
4	3.747	-70.13	Pk	33.3	-30.9	9.8	-57.93	-13	-44.93	0-360	149	V
2	5.607	-69.75	Pk	35.5	-29.5	8.6	-55.15	-13	-42.15	0-360	149	H
5	5.611	-68.39	Pk	35.5	-29.7	8.5	-54.09	-13	-41.09	0-360	149	V
3	7.495	-71.84	Pk	36.1	-26.8	7.7	-54.84	-13	-41.84	0-360	149	H
6	7.495	-68.71	Pk	36.1	-26.8	7.6	-51.81	-13	-38.81	0-360	149	V
1905MHz												
1	3.821	-67.52	Pk	33.4	-30.5	9.5	-55.12	-13	-42.12	0-360	149	H
4	3.823	-69.62	Pk	33.4	-30.5	9.8	-56.92	-13	-43.92	0-360	149	V
2	5.688	-69.59	Pk	35.5	-29.4	8.1	-55.39	-13	-42.39	0-360	149	H
5	5.688	-65.24	Pk	35.5	-29.4	7.9	-51.24	-13	-38.24	0-360	149	V
3	7.584	-68.72	Pk	36.3	-27.3	7	-52.72	-13	-39.72	0-360	149	H
6	7.584	-65.21	Pk	36.3	-27.3	7	-49.21	-13	-36.21	0-360	149	V

10.2.10. **LTE BAND 26 Part 90S**

Company:	Samsung
Project #:	12563734
Date:	1/16/19
Test Engineer:	19480
Configuration:	EUT+ Support Equipment
Mode:	LTE 26 QPSK 15MHz
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
821.5MHz												
1	1.627	-68.08	Pk	28.2	-33.4	10.3	-62.98	-13	-49.98	0-360	149	H
2	1.632	-67.78	Pk	28.3	-33.4	10.5	-62.38	-13	-49.38	0-360	149	V
3	2.44	-68.79	Pk	32.5	-32	8.4	-59.89	-13	-46.89	0-360	149	H
4	2.444	-68	Pk	32.5	-32	9.4	-58.1	-13	-45.1	0-360	149	V
6	3.258	-70.19	Pk	33	-31.1	9.8	-58.49	-13	-45.49	0-360	149	V
5	3.261	-69.47	Pk	33	-30.9	10.4	-56.97	-13	-43.97	0-360	149	H

Company:	Samsung
Project #:	12563734
Date:	1/16/19
Test Engineer:	19480
Configuration:	EUT+ Support Equipment
Mode:	LTE 26 16QAM 15MHz
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
821.5MHz												
1	1.631	-68.3	Pk	28.2	-33.4	10.6	-62.9	-13	-49.9	0-360	149	H
2	1.633	-69.66	Pk	28.3	-33.4	10.6	-64.16	-13	-51.16	0-360	149	V
4	2.447	-68.83	Pk	32.5	-32.1	9.3	-59.13	-13	-46.13	0-360	149	V
3	2.449	-69.11	Pk	32.5	-32.2	8.7	-60.11	-13	-47.11	0-360	149	H
5	3.257	-68.22	Pk	33	-31	10.3	-55.92	-13	-42.92	0-360	149	H
6	3.263	-69.57	Pk	33	-30.9	9.8	-57.67	-13	-44.67	0-360	149	V

10.2.11. LTE BAND 26 Part 22

Company:	Samsung
Project #:	12563734
Date:	10/26/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	LTE 26 QPSK 15MHz
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
831.5MHz												
4	1.645	-70.77	Pk	28.5	-31.6	11.4	-62.47	-13	-49.47	0-360	149	V
1	1.647	-70.08	Pk	28.5	-31.6	12.2	-60.98	-13	-47.98	0-360	149	H
5	2.458	-71.25	Pk	32.2	-30.6	11.6	-58.05	-13	-45.05	0-360	149	V
2	2.463	-71.45	Pk	32.2	-30.5	12.2	-57.55	-13	-44.55	0-360	149	H
6	3.275	-70.13	Pk	32.9	-29.3	10.8	-55.73	-13	-42.73	0-360	149	V
3	3.281	-70.67	Pk	32.9	-29.2	10.7	-56.27	-13	-43.27	0-360	149	H
836.5MHz												
4	1.662	-69.43	Pk	28.6	-31.7	11.6	-60.93	-13	-47.93	0-360	149	V
1	1.664	-70.96	Pk	28.6	-31.7	12.3	-61.76	-13	-48.76	0-360	149	H
5	2.482	-71.55	Pk	32.3	-30.5	11.5	-58.25	-13	-45.25	0-360	149	V
2	2.493	-71.03	Pk	32.4	-30.5	11.3	-57.83	-13	-44.83	0-360	149	H
6	3.308	-71.55	Pk	32.8	-29.2	10.9	-57.05	-13	-44.05	0-360	149	V
3	3.328	-71.6	Pk	32.7	-29	10.8	-57.1	-13	-44.1	0-360	149	H
841.5MHz												
4	1.684	-70.85	Pk	28.8	-31.5	11.1	-62.45	-13	-49.45	0-360	149	V
1	1.686	-71.51	Pk	28.8	-31.5	12.4	-61.81	-13	-48.81	0-360	149	H
5	2.518	-70.99	Pk	32.4	-30.5	11.6	-57.49	-13	-44.49	0-360	149	V
2	2.525	-71.02	Pk	32.4	-30.4	12	-57.02	-13	-44.02	0-360	149	H
6	3.349	-72.3	Pk	32.7	-29.1	11.2	-57.5	-13	-44.5	0-360	149	V
3	3.362	-72.32	Pk	32.7	-29.2	11.1	-57.72	-13	-44.72	0-360	149	H

Company:	Samsung
Project #:	12563734
Date:	10/26/18
Test Engineer:	16069
Configuration:	EUT+ Support Equipment
Mode:	LTE 26 16QAM 15MHz
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
831.5MHz												
4	1.63	-68.97	Pk	28.4	-31.6	10.8	-61.37	-13	-48.37	0-360	149	V
1	1.64	-70.67	Pk	28.4	-31.6	12.2	-61.67	-13	-48.67	0-360	149	H
5	2.45	-72.24	Pk	32.1	-30.5	11.9	-58.74	-13	-45.74	0-360	149	V
2	2.463	-71.97	Pk	32.2	-30.6	12.3	-58.07	-13	-45.07	0-360	149	H
6	3.263	-72.28	Pk	33	-29.4	10.3	-58.38	-13	-45.38	0-360	149	V
3	3.273	-70.79	Pk	32.9	-29.3	10.3	-56.89	-13	-43.89	0-360	149	H
836.5MHz												
4	1.652	-70.63	Pk	28.5	-31.6	11.2	-62.53	-13	-49.53	0-360	149	V
1	1.659	-71.18	Pk	28.6	-31.6	12.3	-61.88	-13	-48.88	0-360	149	H
5	2.481	-71.24	Pk	32.3	-30.5	11.4	-58.04	-13	-45.04	0-360	149	V
2	2.489	-71.03	Pk	32.4	-30.4	10.9	-58.13	-13	-45.13	0-360	149	H
6	3.304	-72.29	Pk	32.8	-29.2	11.1	-57.59	-13	-44.59	0-360	149	V
3	3.327	-72.75	Pk	32.7	-29	10.9	-58.15	-13	-45.15	0-360	149	H
841.5MHz												
4	1.674	-70.75	Pk	28.7	-31.6	11.3	-62.35	-13	-49.35	0-360	149	V
1	1.678	-70.65	Pk	28.8	-31.5	12	-61.35	-13	-48.35	0-360	149	H
5	2.523	-71.73	Pk	32.4	-30.5	12	-57.83	-13	-44.83	0-360	149	V
2	2.524	-68.61	Pk	32.4	-30.4	11.9	-54.71	-13	-41.71	0-360	149	H
3	3.367	-71.2	Pk	32.6	-29.2	11.2	-56.6	-13	-43.6	0-360	149	H
6	3.371	-70.86	Pk	32.6	-29.2	11.8	-55.66	-13	-42.66	0-360	149	V

10.2.12. LTE BAND 41

Company:	Samsung
Project #:	12563734
Date:	10/29/18
Test Engineer:	10649
Configuration:	EUT+ Support Equipment
Mode:	LTE 41 QPSK 20MHz
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2506MHz												
4	3.614	-69.92	Pk	33	-28.5	11.1	-54.32	-25	-29.32	0-360	149	V
1	3.758	-68.9	Pk	33.2	-28.8	11.5	-53	-25	-28	0-360	149	H
5	4.301	-71.32	Pk	33.6	-27.8	11.6	-53.92	-25	-28.92	0-360	149	V
6	5.319	-70.47	Pk	34.6	-26.7	10.7	-51.87	-25	-26.87	0-360	149	V
2	5.542	-71.69	Pk	35	-26.8	11.1	-52.39	-25	-27.39	0-360	149	H
3	9.81	-73.29	Pk	37	-20.7	11	-45.99	-25	-20.99	0-360	149	H
2593MHz												
4	3.392	-69.68	Pk	32.6	-29.2	11.2	-55.08	-25	-30.08	0-360	149	V
1	3.703	-71.48	Pk	33.1	-29	11.2	-56.18	-25	-31.18	0-360	149	H
5	4.869	-72.17	Pk	34.1	-27.4	10.9	-54.57	-25	-29.57	0-360	149	V
2	5.704	-73.5	Pk	35	-26.3	10.6	-54.2	-25	-29.2	0-360	149	H
3	8.511	-74.35	Pk	35.8	-22.3	11.2	-49.65	-25	-24.65	0-360	149	H
6	10.298	-75.71	Pk	37.5	-19.9	10.3	-47.81	-25	-22.81	0-360	149	V
2680MHz												
1	3.608	-69.07	Pk	33	-28.7	11.1	-53.67	-25	-28.67	0-360	149	H
4	4.252	-71.12	Pk	33.5	-28.1	11.6	-54.12	-25	-29.12	0-360	149	V
2	4.754	-69.41	Pk	34.1	-27.2	10.6	-51.91	-25	-26.91	0-360	149	H
5	6.507	-72.71	Pk	35.7	-24.7	11.4	-50.31	-25	-25.31	0-360	149	V
3	7.372	-72.75	Pk	35.7	-23.2	11.1	-49.15	-25	-24.15	0-360	149	H
6	9.871	-74.77	Pk	37.1	-20.6	11	-47.27	-25	-22.27	0-360	149	V

Company:	Samsung
Project #:	12563734
Date:	10/29/18
Test Engineer:	10649
Configuration:	EUT+ Support Equipment
Mode:	LTE 41 16QAM 20MHz
Chamber #:	Chamber A

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2506MHz												
4	3.5	-69.58	Pk	32.9	-29.1	11.4	-54.38	-25	-29.38	0-360	149	V
5	4.305	-71.15	Pk	33.6	-27.7	11.8	-53.45	-25	-28.45	0-360	149	V
1	5.035	-69.79	Pk	34.3	-27.5	11.2	-51.79	-25	-26.79	0-360	149	H
6	5.217	-71.61	Pk	34.5	-26.9	11.3	-52.71	-25	-27.71	0-360	149	V
2	6.755	-70.85	Pk	35.5	-24.6	10.6	-49.35	-25	-24.35	0-360	149	H
3	7.896	-72.35	Pk	35.8	-22.9	10.9	-48.55	-25	-23.55	0-360	149	H
2593MHz												
1	3.231	-69.31	Pk	33.1	-29.5	11.5	-54.21	-25	-29.21	0-360	149	H
4	3.462	-72.54	Pk	32.7	-29	11.4	-57.44	-25	-32.44	0-360	149	V
5	5.316	-71.76	Pk	34.6	-26.7	10.7	-53.16	-25	-28.16	0-360	149	V
2	5.363	-73.22	Pk	34.6	-26.8	11	-54.42	-25	-29.42	0-360	149	H
3	7.931	-73.87	Pk	35.8	-22.6	11.3	-49.37	-25	-24.37	0-360	149	H
6	10.85	-74.06	Pk	37.9	-19.1	11	-44.26	-25	-19.26	0-360	149	V
2680MHz												
4	4.541	-72.92	Pk	34	-27.8	11	-55.72	-25	-30.72	0-360	149	V
1	4.542	-70.94	Pk	34	-27.7	11	-53.64	-25	-28.64	0-360	149	H
5	6.496	-73.62	Pk	35.7	-24.8	11.3	-51.42	-25	-26.42	0-360	149	V
2	6.63	-74.11	Pk	35.6	-24.9	10.6	-52.81	-25	-27.81	0-360	149	H
6	8.099	-72.49	Pk	35.8	-22.5	11.4	-47.79	-25	-22.79	0-360	149	V
3	9.752	-74.46	Pk	36.9	-20.8	10.8	-47.56	-25	-22.56	0-360	149	H

10.2.13. LTE BAND 66

Company:	Samsung
Project #:	12563734
Date:	10/27/18
Test Engineer:	19498
Configuration:	EUT+ Support Equipment
Mode:	LTE 66 QPSK 20MHz
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1720MHz												
4	3.48	-71.37	Pk	32.9	-31.2	9.5	-60.17	-13	-47.17	0-360	149	V
1	3.485	-71.48	Pk	32.9	-30.9	9.5	-59.98	-13	-46.98	0-360	149	H
5	5.148	-70.5	Pk	34.6	-30	9	-56.9	-13	-43.9	0-360	149	V
2	5.163	-69.91	Pk	34.6	-29.6	9.3	-55.61	-13	-42.61	0-360	149	H
6	6.835	-71.81	Pk	35.8	-28.3	7.2	-57.11	-13	-44.11	0-360	149	V
3	6.856	-72.17	Pk	35.8	-28	6.7	-57.67	-13	-44.67	0-360	149	H
1745MHz												
1	3.488	-70.15	Pk	32.9	-31	9.5	-58.75	-13	-45.75	0-360	149	H
6	3.491	-71.29	Pk	32.9	-31.2	9.6	-59.99	-13	-46.99	0-360	149	V
5	5.234	-69.82	Pk	34.8	-29.7	8.7	-56.02	-13	-43.02	0-360	149	V
2	5.236	-71.16	Pk	34.8	-29.6	9.1	-56.86	-13	-43.86	0-360	149	H
4	6.946	-70.19	Pk	35.8	-27.9	6.9	-55.39	-13	-42.39	0-360	149	V
3	6.947	-71.2	Pk	35.8	-27.9	6.8	-56.5	-13	-43.5	0-360	149	H
1770MHz												
4	3.542	-70.82	Pk	33.1	-31.1	9.2	-59.62	-13	-46.62	0-360	149	V
1	3.554	-70.14	Pk	33.1	-31.3	9.2	-59.14	-13	-46.14	0-360	149	H
5	5.309	-70.7	Pk	34.9	-29.7	8.4	-57.1	-13	-44.1	0-360	149	V
2	5.328	-69.77	Pk	35	-29.9	7.9	-56.77	-13	-43.77	0-360	149	H
6	7.06	-71.74	Pk	35.9	-27.7	7.2	-56.34	-13	-43.34	0-360	149	V
3	7.062	-71.89	Pk	36	-27.7	6.9	-56.69	-13	-43.69	0-360	149	H

Company:	Samsung
Project #:	12563734
Date:	10/27/18
Test Engineer:	19498
Configuration:	EUT+ Support Equipment
Mode:	LTE 66 16QAM 20MHz
Chamber #:	Chamber B

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF T477 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Limit	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1720MHz												
1	3.44	-70.85	Pk	32.9	-31.6	8.8	-60.75	-13	-47.75	0-360	149	H
4	3.444	-69.65	Pk	32.9	-31.6	8.7	-59.65	-13	-46.65	0-360	149	V
5	5.141	-71.13	Pk	34.6	-30	8.5	-58.03	-13	-45.03	0-360	149	V
2	5.145	-69.25	Pk	34.6	-30	9	-55.65	-13	-42.65	0-360	149	H
6	6.847	-71.56	Pk	35.8	-28.3	6.6	-57.46	-13	-44.46	0-360	149	V
3	6.857	-71.69	Pk	35.8	-28.1	6.6	-57.39	-13	-44.39	0-360	149	H
1745MHz												
4	3.474	-71.26	Pk	32.9	-31.2	9.3	-60.26	-13	-47.26	0-360	149	V
1	3.48	-70.07	Pk	32.9	-31.2	9.4	-58.97	-13	-45.97	0-360	149	H
5	5.226	-70.31	Pk	34.7	-29.4	8.9	-56.11	-13	-43.11	0-360	149	V
2	5.227	-69.74	Pk	34.8	-29.5	9	-55.44	-13	-42.44	0-360	149	H
6	6.94	-71.19	Pk	35.8	-27.8	6.9	-56.29	-13	-43.29	0-360	149	V
3	6.955	-70.69	Pk	35.9	-27.7	6.9	-55.59	-13	-42.59	0-360	149	H
1770MHz												
5	3.53	-70.24	Pk	33	-31	9.9	-58.34	-13	-45.34	0-360	149	V
1	3.546	-69.71	Pk	33.1	-31.2	9.2	-58.61	-13	-45.61	0-360	149	H
6	5.298	-69.92	Pk	34.9	-30.2	7.7	-57.52	-13	-44.52	0-360	149	V
2	5.302	-71.4	Pk	34.9	-30.1	8.1	-58.5	-13	-45.5	0-360	149	H
4	7.05	-71.77	Pk	35.9	-27.9	6.8	-56.97	-13	-43.97	0-360	149	V
3	7.075	-72.24	Pk	36	-27.8	7.1	-56.94	-13	-43.94	0-360	149	H