

LAT QPSK EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/09/14
 Test Engineer: T Wang
 Configuration: EUT only
 Mode: LTE Band 25, 5MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber
 3m Chamber F

Pre-amplifier
 3m Chamber F

Filter
 2.5G HP Filter

Limit
 Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.5MHz)									
3.705	-13.1	H	3.0	36.3	1.0	-48.4	-13.0	-35.4	
5.065	-15.4	H	3.0	35.6	1.0	-50.0	-13.0	-37.0	
3.705	-12.6	V	3.0	36.3	1.0	-47.9	-13.0	-34.9	
5.065	-14.5	V	3.0	35.6	1.0	-49.1	-13.0	-36.1	
Mid Channel (1882.5MHz)									
3.765	-13.4	H	3.0	36.3	1.0	-48.7	-13.0	-35.7	
5.648	-13.5	H	3.0	35.6	1.0	-48.1	-13.0	-35.1	
3.765	-13.7	V	3.0	36.3	1.0	-49.0	-13.0	-36.0	
5.648	-14.2	V	3.0	35.6	1.0	-48.8	-13.0	-35.8	
High Channel (1912.5MHz)									
3.825	-13.0	H	3.0	36.3	1.0	-48.3	-13.0	-35.3	
5.738	-13.9	H	3.0	35.6	1.0	-48.5	-13.0	-35.5	
3.825	-13.1	V	3.0	36.3	1.0	-48.4	-13.0	-35.4	
5.738	-13.9	V	3.0	35.6	1.0	-48.5	-13.0	-35.5	

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LAT 16QAM EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/09/14
 Test Engineer: T Wang
 Configuration: EUT only
 Mode: LTE Band 25, 5MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber F

Pre-amplifier

3m Chamber F

Filter

2.5G HP Filter

Limit

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.5MHz)									
3.705	-14.0	H	3.0	36.3	1.0	-49.3	-13.0	-36.3	
5.065	-16.2	H	3.0	35.6	1.0	-50.8	-13.0	-37.8	
3.705	-13.5	V	3.0	36.3	1.0	-48.8	-13.0	-35.8	
5.065	-15.3	V	3.0	35.6	1.0	-49.9	-13.0	-36.9	
Mid Channel (1882.5MHz)									
3.765	-14.3	H	3.0	36.3	1.0	-49.6	-13.0	-36.6	
5.648	-14.4	H	3.0	35.6	1.0	-49.0	-13.0	-36.0	
3.765	-14.6	V	3.0	36.3	1.0	-49.9	-13.0	-36.9	
5.648	-15.1	V	3.0	35.6	1.0	-49.7	-13.0	-36.7	
High Channel (1912.5MHz)									
3.825	-14.1	H	3.0	36.3	1.0	-49.4	-13.0	-36.4	
5.738	-14.8	H	3.0	35.6	1.0	-49.4	-13.0	-36.4	
3.825	-13.9	V	3.0	36.3	1.0	-49.2	-13.0	-36.2	
5.738	-14.8	V	3.0	35.6	1.0	-49.4	-13.0	-36.4	

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LAT QPSK EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 6/10/2014
 Test Engineer: Ali Poushnejad
 Configuration: EUT only
 Mode: LTE Band 25, 10MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

Pre-amplifer

Filter

Limit

3m Chamber F

3m Chamber F

2.5G HP Filter

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1855MHz)									
3.71	-14.5	H	3.0	36.3	1.0	-49.8	-13.0	-36.8	
5.57	-13.4	H	3.0	35.6	1.0	-48.0	-13.0	-35.0	
3.71	-13.7	V	3.0	36.3	1.0	-49.0	-13.0	-36.0	
5.57	-13.0	V	3.0	35.6	1.0	-47.6	-13.0	-34.6	
Mid Channel (1882.5MHz)									
3.77	-13.4	H	3.0	36.3	1.0	-48.7	-13.0	-35.7	
5.65	-13.2	H	3.0	35.6	1.0	-47.8	-13.0	-34.8	
3.77	-13.3	V	3.0	36.3	1.0	-48.6	-13.0	-35.6	
5.65	-13.1	V	3.0	35.6	1.0	-47.7	-13.0	-34.7	
High Channel (1910MHz)									
3.82	-12.3	H	3.0	36.3	1.0	-47.5	-13.0	-34.5	
5.73	-12.6	H	3.0	35.6	1.0	-47.2	-13.0	-34.2	
3.82	-11.5	V	3.0	36.3	1.0	-46.8	-13.0	-33.8	
5.73	-12.4	V	3.0	35.6	1.0	-47.0	-13.0	-34.0	

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LAT 16QAM EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 6/10/2014
 Test Engineer: Ali Poushnejad
 Configuration: EUT only
 Mode: LTE Band 25, 10MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

Pre-amplifier

Filter

Limit

3m Chamber F

3m Chamber F

2.5G HP Filter

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1855MHz)									
3.71	-15.5	H	3.0	36.3	1.0	-50.8	-13.0	-37.8	
5.57	-12.1	H	3.0	35.6	1.0	-46.6	-13.0	-33.6	
3.71	-13.6	V	3.0	36.3	1.0	-48.9	-13.0	-35.9	
5.57	-12.2	V	3.0	35.6	1.0	-46.8	-13.0	-33.8	
Mid Channel (1882.5MHz)									
3.77	-13.7	H	3.0	36.3	1.0	-49.0	-13.0	-36.0	
5.65	-13.8	H	3.0	35.6	1.0	-48.3	-13.0	-35.3	
3.77	-13.4	V	3.0	36.3	1.0	-48.7	-13.0	-35.7	
5.65	-12.2	V	3.0	35.6	1.0	-46.8	-13.0	-33.8	
High Channel (1910MHz)									
3.82	-12.4	H	3.0	36.3	1.0	-47.7	-13.0	-34.7	
5.73	-13.0	H	3.0	35.6	1.0	-47.6	-13.0	-34.6	
3.82	-11.2	V	3.0	36.3	1.0	-46.5	-13.0	-33.5	
5.73	-12.6	V	3.0	35.6	1.0	-47.2	-13.0	-34.2	

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LAT QPSK EIRP POWER FOR LTE BAND 25 (15.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
 Above 1GHz Substitution Measurement**

Company: Apple
Project #: 14U17673
Date: 06/09/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 15MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber F

Pre-amplifier

3m Chamber F

Filter

2.5G HP Filter

Limit

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1857.5MHz)									
3.72	-10.4	H	3.0	36.3	1.0	-45.7	-13.0	-32.7	
5.57	-13.3	H	3.0	35.6	1.0	-47.9	-13.0	-34.9	
3.72	-10.8	V	3.0	36.3	1.0	-46.1	-13.0	-33.1	
5.57	-11.9	V	3.0	35.6	1.0	-46.5	-13.0	-33.5	
Mid Channel (1882.5MHz)									
3.77	-12.3	H	3.0	36.3	1.0	-47.5	-13.0	-34.5	
5.65	-12.8	H	3.0	35.6	1.0	-47.4	-13.0	-34.4	
3.77	-14.5	V	3.0	36.3	1.0	-49.8	-13.0	-36.8	
5.65	-12.6	V	3.0	35.6	1.0	-47.2	-13.0	-34.2	
High Channel (1907.5MHz)									
3.82	-11.8	H	3.0	36.3	1.0	-47.0	-13.0	-34.0	
5.72	-13.1	H	3.0	35.6	1.0	-47.7	-13.0	-34.7	
3.82	-12.9	V	3.0	36.3	1.0	-48.2	-13.0	-35.2	
5.72	-12.6	V	3.0	35.6	1.0	-47.2	-13.0	-34.2	

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LAT 16QAM EIRP POWER FOR LTE BAND 25 (15.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
 Above 1GHz Substitution Measurement**

Company: Apple
Project #: 14U17673
Date: 06/09/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 15MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber F

Pre-amplifier

3m Chamber F

Filter

2.5G HP Filter

Limit

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1857.5MHz)									
3.72	-10.9	H	3.0	36.3	1.0	-46.2	-13.0	-33.2	
5.57	-13.1	H	3.0	35.6	1.0	-47.7	-13.0	-34.7	
3.72	-11.7	V	3.0	36.3	1.0	-47.0	-13.0	-34.0	
5.57	-11.4	V	3.0	35.6	1.0	-46.0	-13.0	-33.0	
Mid Channel (1882.5MHz)									
3.77	-12.3	H	3.0	36.3	1.0	-47.6	-13.0	-34.6	
5.65	-12.7	H	3.0	35.6	1.0	-47.2	-13.0	-34.2	
3.77	-12.7	V	3.0	36.3	1.0	-48.0	-13.0	-35.0	
5.65	-12.3	V	3.0	35.6	1.0	-46.9	-13.0	-33.9	
High Channel (1907.5MHz)									
3.82	-12.0	H	3.0	36.3	1.0	-47.2	-13.0	-34.2	
5.72	-13.1	H	3.0	35.6	1.0	-47.7	-13.0	-34.7	
3.82	-13.0	V	3.0	36.3	1.0	-48.3	-13.0	-35.3	
5.72	-11.7	V	3.0	35.6	1.0	-46.3	-13.0	-33.3	

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LAT QPSK EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
 Above 1GHz Substitution Measurement**

Company: Apple
Project #: 14U17673
Date: 06/09/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 20MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber F

Pre-amplifier

3m Chamber F

Filter

2.5G HP Filter

Limit

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1860MHz)									
3.72	-12.9	H	3.0	36.3	1.0	-48.2	-13.0	-35.2	
5.58	-13.2	H	3.0	35.6	1.0	-47.8	-13.0	-34.8	
3.72	-14.6	V	3.0	36.3	1.0	-49.9	-13.0	-36.9	
5.58	-13.7	V	3.0	35.6	1.0	-48.3	-13.0	-35.3	
Mid Channel (1882.5MHz)									
3.77	-14.4	H	3.0	36.3	1.0	-49.7	-13.0	-36.7	
5.65	-13.0	H	3.0	35.6	1.0	-47.6	-13.0	-34.6	
3.77	-14.2	V	3.0	36.3	1.0	-49.4	-13.0	-36.4	
5.65	-12.1	V	3.0	35.6	1.0	-46.7	-13.0	-33.7	
High Channel (1905MHz)									
3.81	-13.7	H	3.0	36.3	1.0	-49.0	-13.0	-36.0	
5.72	-13.2	H	3.0	35.6	1.0	-47.8	-13.0	-34.8	
3.81	-13.2	V	3.0	36.3	1.0	-48.5	-13.0	-35.5	
5.72	-12.5	V	3.0	35.6	1.0	-47.1	-13.0	-34.1	

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LAT 16QAM EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
 Above 1GHz Substitution Measurement**

Company: Apple
Project #: 14U17673
Date: 06/09/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 25, 20MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber F

Pre-amplifier

3m Chamber F

Filter

2.5G HP Filter

Limit

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1860MHz)									
3.72	-13.9	H	3.0	36.3	1.0	-49.2	-13.0	-36.2	
5.58	-13.3	H	3.0	35.6	1.0	-47.9	-13.0	-34.9	
3.72	-14.2	V	3.0	36.3	1.0	-49.5	-13.0	-36.5	
5.58	-13.4	V	3.0	35.6	1.0	-48.0	-13.0	-35.0	
Mid Channel (1882.5MHz)									
3.77	-14.7	H	3.0	36.3	1.0	-50.0	-13.0	-37.0	
5.65	-13.1	H	3.0	35.6	1.0	-47.7	-13.0	-34.7	
3.77	-14.3	V	3.0	36.3	1.0	-49.6	-13.0	-36.6	
5.65	-12.7	V	3.0	35.6	1.0	-47.3	-13.0	-34.3	
High Channel (1905MHz)									
3.81	-14.2	H	3.0	36.3	1.0	-49.5	-13.0	-36.5	
5.72	-13.1	H	3.0	35.6	1.0	-47.7	-13.0	-34.7	
3.81	-14.1	V	3.0	36.3	1.0	-49.3	-13.0	-36.3	
5.72	-13.5	V	3.0	35.6	1.0	-48.1	-13.0	-35.1	

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UAT QPSK EIRP POWER FOR LTE BAND 25 (1.4MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
Project #: 14U17673
Date: 06/12/14
Test Engineer: Ali Poushnejad
Configuration: EUT Only
Mode: LTE Band 25, 1.4MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber D

Pre-amplifier

3m Chamber D

Filter

2.5G HP Filter

Limit

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1850.7MHz)									
3.70	-16.1	H	3.0	38.0	1.0	-53.2	-13.0	-40.2	
5.55	-17.6	H	3.0	37.4	1.0	-54.0	-13.0	-41.0	
3.70	-16.7	V	3.0	38.0	1.0	-53.7	-13.0	-40.7	
5.55	-18.0	V	3.0	37.4	1.0	-54.3	-13.0	-41.3	
Mid Channel (1882.5MHz)									
3.77	-13.8	H	3.0	38.0	1.0	-50.8	-13.0	-37.8	
5.65	-17.7	H	3.0	37.3	1.0	-54.1	-13.0	-41.1	
3.77	-15.9	V	3.0	38.0	1.0	-52.9	-13.0	-39.9	
5.65	-17.6	V	3.0	37.3	1.0	-54.0	-13.0	-41.0	
High Channel (1914.3MHz)									
3.83	-18.1	H	3.0	37.9	1.0	-55.0	-13.0	-42.0	
5.74	-17.3	H	3.0	37.3	1.0	-53.6	-13.0	-40.6	
3.83	-14.7	V	3.0	37.9	1.0	-51.6	-13.0	-38.6	
5.74	-16.6	V	3.0	37.3	1.0	-52.9	-13.0	-39.9	

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UAT 16QAM EIRP POWER FOR LTE BAND 25 (1.4MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/12/14
 Test Engineer: Ali Poushnejad
 Configuration: EUT Only
 Mode: LTE Band 25, 1.4MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

Pre-amplifier

Filter

Limit

3m Chamber D

3m Chamber D

2.5G HP Filter

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1850.7MHz)									
3.70	-15.8	H	3.0	38.0	1.0	-52.8	-13.0	-39.8	
5.55	-17.3	H	3.0	37.4	1.0	-53.7	-13.0	-40.7	
3.70	-16.6	V	3.0	38.0	1.0	-53.6	-13.0	-40.6	
5.55	-18.2	V	3.0	37.4	1.0	-54.6	-13.0	-41.6	
Mid Channel (1882.5MHz)									
3.77	-13.9	H	3.0	38.0	1.0	-50.9	-13.0	-37.9	
5.65	-17.0	H	3.0	37.3	1.0	-53.4	-13.0	-40.4	
3.77	-14.9	V	3.0	38.0	1.0	-51.9	-13.0	-38.9	
5.65	-16.8	V	3.0	37.3	1.0	-53.1	-13.0	-40.1	
High Channel (1914.3MHz)									
3.83	-17.7	H	3.0	37.9	1.0	-54.6	-13.0	-41.6	
5.74	-17.7	H	3.0	37.3	1.0	-54.0	-13.0	-41.0	
3.83	-14.2	V	3.0	37.9	1.0	-51.1	-13.0	-38.1	
5.74	-16.9	V	3.0	37.3	1.0	-53.2	-13.0	-40.2	

Rev. 03.03.14

UAT QPSK EIRP POWER FOR LTE BAND 25 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/12/14
 Test Engineer: Ali Poushnejad
 Configuration: EUT Only
 Mode: LTE Band 25, 3MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

Pre-amplifier

Filter

Limit

3m Chamber D

3m Chamber D

2.5G HP Filter

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1851.5MHz)									
3.70	-16.0	H	3.0	38.0	1.0	-53.1	-13.0	-40.1	
5.55	-16.5	H	3.0	37.4	1.0	-52.9	-13.0	-39.9	
3.70	-16.7	V	3.0	38.0	1.0	-53.8	-13.0	-40.8	
5.55	-15.8	V	3.0	37.4	1.0	-52.2	-13.0	-39.2	
Mid Channel (1882.5MHz)									
3.77	-13.2	H	3.0	38.0	1.0	-50.2	-13.0	-37.2	
5.65	-13.3	H	3.0	37.3	1.0	-49.6	-13.0	-36.6	
3.77	-13.1	V	3.0	38.0	1.0	-50.1	-13.0	-37.1	
5.65	-12.6	V	3.0	37.3	1.0	-49.0	-13.0	-36.0	
High Channel (1913.5MHz)									
3.83	-17.6	H	3.0	37.9	1.0	-54.5	-13.0	-41.5	
5.74	-16.1	H	3.0	37.3	1.0	-52.4	-13.0	-39.4	
3.83	-17.0	V	3.0	37.9	1.0	-54.0	-13.0	-41.0	
5.74	-17.0	V	3.0	37.3	1.0	-53.3	-13.0	-40.3	

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UAT 16QAM EIRP POWER FOR LTE BAND 25 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/12/14
 Test Engineer: Ali Poushnejad
 Configuration: EUT Only
 Mode: LTE Band 25, 3MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

Pre-amplifier

Filter

Limit

3m Chamber D

3m Chamber D

2.5G HP Filter

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1851.5MHz)									
3.70	-16.1	H	3.0	38.0	1.0	-53.1	-13.0	-40.1	
5.55	-17.1	H	3.0	37.4	1.0	-53.5	-13.0	-40.5	
3.70	-16.6	V	3.0	38.0	1.0	-53.7	-13.0	-40.7	
5.55	-16.8	V	3.0	37.4	1.0	-53.1	-13.0	-40.1	
Mid Channel (1882.5MHz)									
3.77	-13.6	H	3.0	38.0	1.0	-50.6	-13.0	-37.6	
5.65	-13.6	H	3.0	37.3	1.0	-49.9	-13.0	-36.9	
3.77	-11.8	V	3.0	38.0	1.0	-48.8	-13.0	-35.8	
5.65	-13.8	V	3.0	37.3	1.0	-50.1	-13.0	-37.1	
High Channel (1913.5MHz)									
3.83	-17.7	H	3.0	37.9	1.0	-54.6	-13.0	-41.6	
5.74	-16.7	H	3.0	37.3	1.0	-53.0	-13.0	-40.0	
3.83	-17.1	V	3.0	37.9	1.0	-54.0	-13.0	-41.0	
5.74	-16.7	V	3.0	37.3	1.0	-53.1	-13.0	-40.1	

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UAT QPSK EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
 Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/12/14
 Test Engineer: Ali Poushnejad
 Configuration: EUT Only
 Mode: LTE Band 25, 5MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber F

Pre-amplifier

3m Chamber F

Filter

2.5G HP Filter

Limit

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.5MHz)									
3.71	-17.5	H	3.0	36.3	1.0	-52.8	-13.0	-39.8	
5.56	-16.1	H	3.0	35.6	1.0	-50.7	-13.0	-37.7	
3.71	-18.0	V	3.0	36.3	1.0	-53.3	-13.0	-40.3	
5.56	-16.5	V	3.0	35.6	1.0	-51.1	-13.0	-38.1	
Mid Channel (1882.5MHz)									
3.77	-13.4	H	3.0	36.3	1.0	-48.7	-13.0	-35.7	
5.65	-15.2	H	3.0	35.6	1.0	-49.8	-13.0	-36.8	
3.77	-16.2	V	3.0	36.3	1.0	-51.5	-13.0	-38.5	
5.65	-16.5	V	3.0	35.6	1.0	-51.1	-13.0	-38.1	
High Channel (1912.5MHz)									
3.83	-16.8	H	3.0	36.3	1.0	-52.1	-13.0	-39.1	
5.74	-16.2	H	3.0	35.6	1.0	-50.8	-13.0	-37.8	
3.83	-17.0	V	3.0	36.3	1.0	-52.3	-13.0	-39.3	
5.74	-16.9	V	3.0	35.6	1.0	-51.5	-13.0	-38.5	

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UAT 16QAM EIRP POWER FOR LTE BAND 25 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/12/14
 Test Engineer: Ali Poushnejad
 Configuration: EUT Only
 Mode: LTE Band 25, 5MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

Pre-amplifier

Filter

Limit

3m Chamber F

3m Chamber F

2.5G HP Filter

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1852.5MHz)									
3.71	-16.9	H	3.0	36.3	1.0	-52.2	-13.0	-39.2	
5.56	-16.1	H	3.0	35.6	1.0	-50.7	-13.0	-37.7	
3.71	-17.9	V	3.0	36.3	1.0	-53.2	-13.0	-40.2	
5.56	-16.6	V	3.0	35.6	1.0	-51.1	-13.0	-38.1	
Mid Channel (1882.5MHz)									
3.77	-12.8	H	3.0	36.3	1.0	-48.1	-13.0	-35.1	
5.65	-15.4	H	3.0	35.6	1.0	-50.0	-13.0	-37.0	
3.77	-16.4	V	3.0	36.3	1.0	-51.6	-13.0	-38.6	
5.65	-16.7	V	3.0	35.6	1.0	-51.3	-13.0	-38.3	
High Channel (1912.5MHz)									
3.83	-17.6	H	3.0	36.3	1.0	-52.9	-13.0	-39.9	
5.74	-16.7	H	3.0	35.6	1.0	-51.3	-13.0	-38.3	
3.83	-17.1	V	3.0	36.3	1.0	-52.4	-13.0	-39.4	
5.74	-16.8	V	3.0	35.6	1.0	-51.4	-13.0	-38.4	

Rev. 03.03.14

UAT QPSK EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/12/14
 Test Engineer: Ali Poushnejad
 Configuration: EUT Only
 Mode: LTE Band 25, 10MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

Pre-amplifer

Filter

Limit

3m Chamber F

3m Chamber F

2.5G HP Filter

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1855MHz)									
3.71	-12.6	H	3.0	36.3	1.0	-47.9	-13.0	-34.9	
5.57	-12.3	H	3.0	35.6	1.0	-46.8	-13.0	-33.8	
3.71	-12.1	V	3.0	36.3	1.0	-47.4	-13.0	-34.4	
5.57	-11.2	V	3.0	35.6	1.0	-45.7	-13.0	-32.7	
Mid Channel (1882.5MHz)									
3.77	-11.9	H	3.0	36.3	1.0	-47.2	-13.0	-34.2	
5.65	-11.4	H	3.0	35.6	1.0	-46.0	-13.0	-33.0	
3.77	-11.9	V	3.0	36.3	1.0	-47.2	-13.0	-34.2	
5.65	-12.0	V	3.0	35.6	1.0	-46.6	-13.0	-33.6	
High Channel (1910MHz)									
3.82	-12.5	H	3.0	36.3	1.0	-47.7	-13.0	-34.7	
5.73	-11.3	H	3.0	35.6	1.0	-45.9	-13.0	-32.9	
3.82	-12.6	V	3.0	36.3	1.0	-47.8	-13.0	-34.8	
5.73	-12.0	V	3.0	35.6	1.0	-46.6	-13.0	-33.6	

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UAT 16QAM EIRP POWER FOR LTE BAND 25 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/12/14
 Test Engineer: Ali Poushnejad
 Configuration: EUT Only
 Mode: LTE Band 25, 10MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

Pre-amplifier

Filter

Limit

3m Chamber F

3m Chamber F

2.5G HP Filter

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1855MHz)									
3.71	-13.3	H	3.0	36.3	1.0	-48.6	-13.0	-35.6	
5.57	-12.3	H	3.0	35.6	1.0	-46.8	-13.0	-33.8	
3.71	-12.4	V	3.0	36.3	1.0	-47.7	-13.0	-34.7	
5.57	-12.6	V	3.0	35.6	1.0	-47.1	-13.0	-34.1	
Mid Channel (1882.5MHz)									
3.77	-11.9	H	3.0	36.3	1.0	-47.2	-13.0	-34.2	
5.65	-12.1	H	3.0	35.6	1.0	-46.7	-13.0	-33.7	
3.77	-11.5	V	3.0	36.3	1.0	-46.8	-13.0	-33.8	
5.65	-11.9	V	3.0	35.6	1.0	-46.5	-13.0	-33.5	
High Channel (1910MHz)									
3.82	-12.1	H	3.0	36.3	1.0	-47.3	-13.0	-34.3	
5.73	-11.8	H	3.0	35.6	1.0	-46.4	-13.0	-33.4	
3.82	-12.4	V	3.0	36.3	1.0	-47.7	-13.0	-34.7	
5.73	-12.1	V	3.0	35.6	1.0	-46.7	-13.0	-33.7	

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UAT QPSK EIRP POWER FOR LTE BAND 25 (15.0MHZ BANDWIDTH)

3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement

Company: Apple
Project #: 14U17673
Date: 06/12/14
Test Engineer: Ali Poushnejad
Configuration: EUT Only
Mode: LTE Band 25, 15MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber F

Pre-amplifier

3m Chamber F

Filter

2.5G HP Filter

Limit

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1857.5MHz)									
3.72	-16.0	H	3.0	36.3	1.0	-51.3	-13.0	-38.3	
5.57	-15.7	H	3.0	35.6	1.0	-50.3	-13.0	-37.3	
3.72	-17.3	V	3.0	36.3	1.0	-52.6	-13.0	-39.6	
5.57	-16.4	V	3.0	35.6	1.0	-51.0	-13.0	-38.0	
Mid Channel (1882.5MHz)									
3.77	-14.7	H	3.0	36.3	1.0	-50.0	-13.0	-37.0	
5.65	-16.6	H	3.0	35.6	1.0	-51.2	-13.0	-38.2	
3.77	-11.9	V	3.0	36.3	1.0	-47.2	-13.0	-34.2	
5.65	-12.4	V	3.0	35.6	1.0	-47.0	-13.0	-34.0	
High Channel (1907.5MHz)									
3.82	-17.2	H	3.0	36.3	1.0	-52.5	-13.0	-39.5	
5.72	-16.6	H	3.0	35.6	1.0	-51.2	-13.0	-38.2	
3.82	-16.8	V	3.0	36.3	1.0	-52.1	-13.0	-39.1	
5.72	-15.9	V	3.0	35.6	1.0	-50.5	-13.0	-37.5	

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UAT 16QAM EIRP POWER FOR LTE BAND 25 (15.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
Project #: 14U17673
Date: 06/12/14
Test Engineer: Ali Poushnejad
Configuration: EUT Only
Mode: LTE Band 25, 15MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber F

Pre-amplifier

3m Chamber F

Filter

2.5G HP Filter

Limit

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1857.5MHz)									
3.72	-13.9	H	3.0	36.3	1.0	-49.2	-13.0	-36.2	
5.57	-16.4	H	3.0	35.6	1.0	-50.9	-13.0	-37.9	
3.72	-17.0	V	3.0	36.3	1.0	-52.3	-13.0	-39.3	
5.57	-16.4	V	3.0	35.6	1.0	-50.9	-13.0	-37.9	
Mid Channel (1882.5MHz)									
3.77	118.5	H	3.0	36.3	1.0	83.2	-13.0	96.2	
5.65	-15.7	H	3.0	35.6	1.0	-50.3	-13.0	-37.3	
3.77	-12.0	V	3.0	36.3	1.0	-47.3	-13.0	-34.3	
5.65	-12.5	V	3.0	35.6	1.0	-47.1	-13.0	-34.1	
High Channel (1907.5MHz)									
3.82	-17.5	H	3.0	36.3	1.0	-52.7	-13.0	-39.7	
5.72	-16.6	H	3.0	35.6	1.0	-51.2	-13.0	-38.2	
3.82	-17.4	V	3.0	36.3	1.0	-52.7	-13.0	-39.7	
5.72	-17.2	V	3.0	35.6	1.0	-51.8	-13.0	-38.8	

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UAT QPSK EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
Project #: 14U17673
Date: 06/12/14
Test Engineer: Ali Poushnejad
Configuration: EUT Only
Mode: LTE Band 25, 20MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber F

Pre-amplifier

3m Chamber F

Filter

2.5G HP Filter

Limit

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1860MHz)									
3.72	-16.2	H	3.0	36.3	1.0	-51.5	-13.0	-38.5	
5.58	-15.6	H	3.0	35.6	1.0	-50.2	-13.0	-37.2	
3.72	-15.4	V	3.0	36.3	1.0	-50.7	-13.0	-37.7	
5.58	-15.4	V	3.0	35.6	1.0	-50.0	-13.0	-37.0	
Mid Channel (1882.5MHz)									
3.77	-8.9	H	3.0	36.3	1.0	-44.2	-13.0	-31.2	
5.65	-9.3	H	3.0	35.6	1.0	-43.9	-13.0	-30.9	
3.77	-17.3	V	3.0	36.3	1.0	-52.6	-13.0	-39.6	
5.65	-9.5	V	3.0	35.6	1.0	-44.1	-13.0	-31.1	
High Channel (1905MHz)									
3.81	-15.7	H	3.0	36.3	1.0	-51.0	-13.0	-38.0	
5.72	-15.3	H	3.0	35.6	1.0	-49.9	-13.0	-36.9	
3.81	-15.8	V	3.0	36.3	1.0	-51.1	-13.0	-38.1	
5.72	-15.5	V	3.0	35.6	1.0	-50.1	-13.0	-37.1	

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UAT 16QAM EIRP POWER FOR LTE BAND 25 (20.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
Project #: 14U17673
Date: 06/12/14
Test Engineer: Ali Poushnejad
Configuration: EUT Only
Mode: LTE Band 25, 20MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber F

Pre-amplifier

3m Chamber F

Filter

2.5G HP Filter

Limit

Part 24

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (1860MHz)									
3.72	-17.0	H	3.0	36.3	1.0	-52.3	-13.0	-39.3	
5.58	-15.2	H	3.0	35.6	1.0	-49.8	-13.0	-36.8	
3.72	-16.6	V	3.0	36.3	1.0	-51.9	-13.0	-38.9	
5.58	-16.2	V	3.0	35.6	1.0	-50.8	-13.0	-37.8	
Mid Channel (1882.5MHz)									
3.77	-10.0	H	3.0	36.3	1.0	-45.3	-13.0	-32.3	
5.65	-9.3	H	3.0	35.6	1.0	-43.9	-13.0	-30.9	
3.77	-17.6	V	3.0	36.3	1.0	-52.9	-13.0	-39.9	
5.65	-9.6	V	3.0	35.6	1.0	-44.2	-13.0	-31.2	
High Channel (1905MHz)									
3.81	-16.0	H	3.0	36.3	1.0	-51.3	-13.0	-38.3	
5.72	-15.4	H	3.0	35.6	1.0	-50.0	-13.0	-37.0	
3.81	-15.5	V	3.0	36.3	1.0	-50.8	-13.0	-37.8	
5.72	-15.8	V	3.0	35.6	1.0	-50.4	-13.0	-37.4	

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9.3.7. LTE BAND 26

LAT QPSK EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/13/14
 Test Engineer: E. Yu
 Configuration: EUT Only
 Mode: LTE Band 26, 3MHz QPSK,

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

Pre-amplifier

Filter

Limit

3m Chamber F

3m Chamber F

Filter 01

Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (820.3MHz)									
1.641	-8.3	H	3.0	34.9	1.0	-42.2	-13.0	-29.2	
2.461	-16.4	H	3.0	35.4	1.0	-50.9	-13.0	-37.9	
1.641	-11.6	V	3.0	34.9	1.0	-45.5	-13.0	-32.5	
2.461	-15.8	V	3.0	35.4	1.0	-50.2	-13.0	-37.2	
Mid Channel (821.3MHz)									
1.643	-9.2	H	3.0	34.9	1.0	-43.2	-13.0	-30.2	
2.464	-15.2	H	3.0	35.4	1.0	-49.6	-13.0	-36.6	
1.643	-18.0	V	3.0	34.9	1.0	-51.9	-13.0	-38.9	
2.464	-16.2	V	3.0	35.4	1.0	-50.6	-13.0	-37.6	
High Channel (822.3MHz)									
1.645	-13.3	H	3.0	34.9	1.0	-47.2	-13.0	-34.2	
2.467	-16.4	H	3.0	35.4	1.0	-50.8	-13.0	-37.8	
1.645	-18.6	V	3.0	34.9	1.0	-52.5	-13.0	-39.5	
2.467	-18.0	V	3.0	35.4	1.0	-52.5	-13.0	-39.5	

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LAT 16QAM EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/13/14
 Test Engineer: E. Yu
 Configuration: EUT Only
 Mode: LTE Band 26, 3MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

Pre-amplifier

Filter

Limit

3m Chamber F

3m Chamber F

Filter 01

Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (820.3MHz)									
1.641	-8.6	H	3.0	34.9	1.0	-42.5	-13.0	-29.5	
2.461	-16.5	H	3.0	35.4	1.0	-51.0	-13.0	-38.0	
1.641	-12.2	V	3.0	34.9	1.0	-46.1	-13.0	-33.1	
2.461	-16.3	V	3.0	35.4	1.0	-50.7	-13.0	-37.7	
Mid Channel (821.3MHz)									
1.643	-9.4	H	3.0	34.9	1.0	-43.4	-13.0	-30.4	
2.464	-15.1	H	3.0	35.4	1.0	-49.5	-13.0	-36.5	
1.643	-18.6	V	3.0	34.9	1.0	-52.5	-13.0	-39.5	
2.464	-16.7	V	3.0	35.4	1.0	-51.1	-13.0	-38.1	
High Channel (822.3MHz)									
1.645	-13.2	H	3.0	34.9	1.0	-47.1	-13.0	-34.1	
2.467	-16.9	H	3.0	35.4	1.0	-51.3	-13.0	-38.3	
1.645	-17.9	V	3.0	34.9	1.0	-51.8	-13.0	-38.8	
2.467	-18.3	V	3.0	35.4	1.0	-52.7	-13.0	-39.7	

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LAT QPSK EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/06/14
 Test Engineer: E. Yu
 Configuration: EUT Only
 Mode: LTE Band 26, 5MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber F

Pre-amplifier

3m Chamber F

Filter

Filter 01

Limit

Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (821.3MHz)									
1.643	-18.0	H	3.0	34.9	1.0	-51.9	-13.0	-38.9	
2.464	-16.5	H	3.0	35.4	1.0	-50.9	-13.0	-37.9	
1.643	-17.3	V	3.0	34.9	1.0	-51.2	-13.0	-38.2	
2.464	-17.6	V	3.0	35.4	1.0	-52.1	-13.0	-39.1	

Rev. 03.03.14

LAT 16QAM EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/13/14
 Test Engineer: E. Yu
 Configuration: EUT Only
 Mode: LTE Band 26, 5MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

Pre-amplifier

Filter

Limit

3m Chamber F

3m Chamber F

Filter 01

Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (821.3MHz)									
1.643	-17.9	H	3.0	34.9	1.0	-51.8	-13.0	-38.8	
2.464	-16.2	H	3.0	35.4	1.0	-50.6	-13.0	-37.6	
1.643	-18.1	V	3.0	34.9	1.0	-52.0	-13.0	-39.0	
2.464	-17.4	V	3.0	35.4	1.0	-51.8	-13.0	-38.8	

Rev. 03.03.14

LAT QPSK EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Compay: Apple
Project #: 14U17673
Date: 06/20/14
Test Engineer: Macie
Configuration: EUT Only
Mode: LTE Band 26, 10MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber E

Pre-amplifier

3m Chamber E

Filter

Filter 01

Limit

Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (819MHz)									
1.638	-18.4	H	3.0	37.6	1.0	-55.0	-13.0	-42.0	
2.457	-14.8	H	3.0	38.0	1.0	-51.8	-13.0	-38.8	
1.638	-17.8	V	3.0	37.6	1.0	-54.4	-13.0	-41.4	
2.457	-17.5	V	3.0	38.0	1.0	-54.5	-13.0	-41.5	

Rev. 03.03.14

LAT 16QAM EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
Project #: 14U17673
Date: 06/20/14
Test Engineer: Macie
Configuration: EUT Only
Mode: LTE Band 26, 10MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber
 3m Chamber E

Pre-amplifier
 3m Chamber E

Filter
 Filter 01

Limit
 Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (819MHz)									
1.638	-19.8	H	3.0	37.6	1.0	-56.4	-13.0	-43.4	
2.457	-16.1	H	3.0	38.0	1.0	-53.1	-13.0	-40.1	
1.638	-19.2	V	3.0	37.6	1.0	-55.7	-13.0	-42.7	
2.457	-19.4	V	3.0	38.0	1.0	-56.4	-13.0	-43.4	

Rev. 03.03.14

UAT QPSK EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/14/14
 Test Engineer: Ali Poushnejad
 Configuration: EUT only
 Mode: LTE Band 26, 3MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

Pre-amplifier

Filter

Limit

3m Chamber F

3m Chamber F

1G HP Filter

Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (820.3MHz)									
1.64	-9.1	H	3.0	34.9	1.0	-43.0	-13.0	-30.0	
2.46	-15.9	H	3.0	35.4	1.0	-50.3	-13.0	-37.3	
1.64	-2.4	V	3.0	34.9	1.0	-36.3	-13.0	-23.3	
2.46	-10.9	V	3.0	35.4	1.0	-45.3	-13.0	-32.3	
Mid Channel (821.3MHz)									
1.64	-10.0	H	3.0	34.9	1.0	-43.9	-13.0	-30.9	
2.46	-17.2	H	3.0	35.4	1.0	-51.6	-13.0	-38.6	
1.64	1.7	V	3.0	34.9	1.0	-32.2	-13.0	-19.2	
2.46	-12.5	V	3.0	35.4	1.0	-46.9	-13.0	-33.9	
High Channel (822.3MHz)									
1.64	-9.3	H	3.0	34.9	1.0	-43.2	-13.0	-30.2	
2.47	-15.1	H	3.0	35.4	1.0	-49.5	-13.0	-36.5	
1.64	1.8	V	3.0	34.9	1.0	-32.1	-13.0	-19.1	
2.47	-12.8	V	3.0	35.4	1.0	-47.2	-13.0	-34.2	

Rev. 03.03.14

UAT 16QAM EIRP POWER FOR LTE BAND 26 (3.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
 Project #: 14U17673
 Date: 06/14/14
 Test Engineer: Ali Poushnejad
 Configuration: EUT only
 Mode: LTE Band 26, 3MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

Pre-amplifier

Filter

Limit

3m Chamber F

3m Chamber F

1G HP Filter

Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Low Channel (820.3MHz)									
1.64	-6.5	H	3.0	34.9	1.0	-40.4	-13.0	-27.4	
2.46	-15.7	H	3.0	35.4	1.0	-50.1	-13.0	-37.1	
1.64	-2.5	V	3.0	34.9	1.0	-36.4	-13.0	-23.4	
2.46	-10.9	V	3.0	35.4	1.0	-45.3	-13.0	-32.3	
Mid Channel (821.3MHz)									
1.64	-10.0	H	3.0	34.9	1.0	-43.9	-13.0	-30.9	
2.46	-18.1	H	3.0	35.4	1.0	-52.5	-13.0	-39.5	
1.64	1.8	V	3.0	34.9	1.0	-32.1	-13.0	-19.1	
2.46	-13.0	V	3.0	35.4	1.0	-47.5	-13.0	-34.5	
High Channel (822.3MHz)									
1.64	-9.4	H	3.0	34.9	1.0	-43.4	-13.0	-30.4	
2.47	-16.1	H	3.0	35.4	1.0	-50.5	-13.0	-37.5	
1.64	1.8	V	3.0	34.9	1.0	-32.2	-13.0	-19.2	
2.47	-11.7	V	3.0	35.4	1.0	-46.1	-13.0	-33.1	

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UAT QPSK EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
Project #: 14U17673
Date: 06/14/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 26, 5MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber F

Pre-amplifier

3m Chamber F

Filter

1G HP Filter

Limit

Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (821.3MHz)									
1.64	-10.3	H	3.0	34.9	1.0	-44.2	-13.0	-31.2	
2.46	-17.9	H	3.0	35.4	1.0	-52.3	-13.0	-39.3	
1.64	1.9	V	3.0	34.9	1.0	-32.0	-13.0	-19.0	
2.46	-13.0	V	3.0	35.4	1.0	-47.4	-13.0	-34.4	

Rev. 03.03.14

UAT 16QAM EIRP POWER FOR LTE BAND 26 (5.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
Project #: 14U17673
Date: 06/14/14
Test Engineer: Ali Poushnejad
Configuration: EUT only
Mode: LTE Band 26, 5MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber F

Pre-amplifier

3m Chamber F

Filter

1G HP Filter

Limit

Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (821.3MHz)									
1.64	-9.4	H	3.0	34.9	1.0	-43.3	-13.0	-30.3	
2.46	-18.0	H	3.0	35.4	1.0	-52.4	-13.0	-39.4	
1.64	1.9	V	3.0	34.9	1.0	-32.0	-13.0	-19.0	
2.46	-12.9	V	3.0	35.4	1.0	-47.4	-13.0	-34.4	

Rev. 03.03.14

UAT QPSK EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
Project #: 14U17673
Date: 06/20/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 26, 10MHz QPSK

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber E

Pre-amplifier

3m Chamber E

Filter

Limit

Part 22

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (819MHz)									
1.638	-18.8	H	3.0	37.6	1.0	-55.3	-13.0	-42.3	
2.457	-15.0	H	3.0	38.0	1.0	-52.0	-13.0	-39.0	
1.638	-18.1	V	3.0	37.6	1.0	-54.7	-13.0	-41.7	
2.457	-16.3	V	3.0	38.0	1.0	-53.4	-13.0	-40.4	

Rev. 03.03.14

UAT 16QAM EIRP POWER FOR LTE BAND 26 (10.0MHZ BANDWIDTH)

**3m Radiated Emissions Chamber
Above 1GHz Substitution Measurement**

Company: Apple
Project #: 14U17673
Date: 06/20/14
Test Engineer: Macie
Configuration: EUT only
Mode: LTE Band 26,10MHz 16QAM

Test Equipment:
 Substitution: Horn T59 Substitution, and 8ft SMA Cable

Chamber

3m Chamber E ▾

Pre-amplifier

3m Chamber E ▾

Filter

▾

Limit

Part 22 ▾

Frequency (GHz)	SG reading (dBm)	Ant. Pol. (H/V)	Distance	Preamp	Attenuator	EIRP	Limit	Delta	Notes
Mid Channel (819MHz)									
1.638	-19.5	H	3.0	37.6	1.0	-56.1	-13.0	-43.1	
2.457	-15.6	H	3.0	38.0	1.0	-52.6	-13.0	-39.6	
1.638	-18.5	V	3.0	37.6	1.0	-55.1	-13.0	-42.1	
2.457	-17.3	V	3.0	38.0	1.0	-54.3	-13.0	-41.3	

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