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MEASUREMENT REPORT FCC Part 90

Applicant:

Samsung Electronics, Co. Ltd.
129, Samsung-ro, Maetan dong,
Yeongtong-gu, Suwon-si
Gyeonggi-do 443-742, Korea

Date of Testing:

07/29 - 09/04/14

Test Site/Location:

PCTEST Lab., Columbia, MD, USA

Test Report Serial No.:

0Y1408011594-R1.A3L

FCC ID:

A3LSMN910P

APPLICANT:

SAMSUNG ELECTRONICS, CO. LTD.

Applicant Type:

Certification

FCC Classification:

PCS Licensed Transmitter Held to Ear (PCE)

FCC Rule Part:

§90.691

EUT Type:

Portable Handset

Model(s):

SM-N910P

Test Device Serial No.:

identical prototype [S/N: EMC]

Mode	Tx Frequency (MHz)	Emission Designator	Cond. PWR	
			Max. Power (W)	Max. Power (dBm)
CDMA800 (BC10)	817.9 - 823.1	1M27F9W	0.304	24.83
LTE Band 26	814.7 - 823.3	1M08G7D	0.228	23.58
LTE Band 26	814.7 - 823.3	1M08W7D	0.183	22.63
LTE Band 26	815.5 - 822.5	2M72G7D	0.226	23.55
LTE Band 26	815.5 - 822.5	2M71W7D	0.183	22.62
LTE Band 26	816.5 - 821.5	4M49G7D	0.231	23.64
LTE Band 26	816.5 - 821.5	4M47W7D	0.185	22.68
LTE Band 26	819	8M97G7D	0.237	23.74
LTE Band 26	819	8M96W7D	0.192	22.83

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in §2.947. Test results reported herein relate only to the item(s) tested.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.


Randy Ortanez
President



FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 1 of 38

TABLE OF CONTENTS

FCC PART 90 MEASUREMENT REPORT.....	3
1.0 INTRODUCTION	4
1.1 SCOPE	4
1.2 TESTING FACILITY.....	4
2.0 PRODUCT INFORMATION.....	5
2.1 EQUIPMENT DESCRIPTION	5
2.2 DEVICE CAPABILITIES.....	5
2.3 TEST CONFIGURATION.....	5
2.4 EMI SUPPRESSION DEVICE(S)/MODIFICATIONS	5
3.0 DESCRIPTION OF TESTS	6
3.1 EVALUATION PROCEDURE	6
3.2 OCCUPIED BANDWIDTH	6
3.3 SPURIOUS AND HARMONIC EMISSIONS AT ANTENNA TERMINAL.....	6
3.4 RADIATED POWER AND RADIATED SPURIOUS EMISSIONS	7
3.5 FREQUENCY STABILITY / TEMPERATURE VARIATION	8
4.0 TEST EQUIPMENT CALIBRATION DATA	9
5.0 SAMPLE CALCULATIONS	10
6.0 TEST RESULTS.....	11
6.1 SUMMARY.....	11
6.2 CONDUCTED POWER OUTPUT DATA	12
6.3 RADIATED SPURIOUS EMISSIONS MEASUREMENTS	13
6.4 FREQUENCY STABILITY / TEMPERATURE VARIATION	18
7.0 CDMA PLOTS OF EMISSIONS	22
8.0 LTE PLOTS OF EMISSIONS	28
9.0 CONCLUSION.....	38

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 2 of 38



MEASUREMENT REPORT BC10 CDMA/LTE

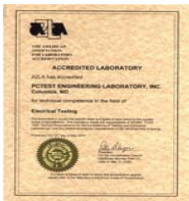


§2.1033 General Information

APPLICANT: Samsung Electronics, Co. Ltd.
APPLICANT ADDRESS: 129, Samsung-ro, Maetan dong,
Yeongtong-gu, Suwon-si, Gyeonggi-do 443-742, Korea
TEST SITE: PCTEST ENGINEERING LABORATORY, INC.
TEST SITE ADDRESS: 7185 Oakland Mills Road, Columbia, MD 21045 USA
BASE MODEL: SM-N910P
FCC CLASSIFICATION: PCS Licensed Transmitter Held to Ear (PCE)
MODE: LTE
FREQUENCY TOLERANCE: $\pm 0.00025\%$ (2.5 ppm)
Test Device Serial No.: EMC ☐ Production ☒ Pre-Production ☐ Engineering
DATE(S) OF TEST: 07/29 - 09/04/14
TEST REPORT S/N: 0Y1408011594-R1.A3L

Test Facility / Accreditations

Measurements were performed at **PCTEST Engineering Lab. located in Columbia, MD 21045, U.S.A.**



- PCTEST facility is an FCC registered (PCTEST Reg. No. 159966) test facility with the site description report on file and has met all the requirements specified in Section 2.948 of the FCC Rules.
- PCTEST Lab is accredited to ISO 17025 by U.S. National Institute of Standards and Technology (NIST) under the National Voluntary Laboratory Accreditation Program (NVLAP Lab code: 100431-0) in EMC, FCC and Telecommunications.
- PCTEST Lab is accredited to ISO 17025-2005 by the American Association for Laboratory Accreditation (A2LA) in Specific Absorption Rate (SAR) testing, Hearing Aid Compatibility (HAC) testing, CTIA Test Plans, and wireless testing for FCC.
- PCTEST Lab is a recognized U.S. Conformity Assessment Body (CAB) in EMC and R&TTE (n.b. 0982) under the U.S.-EU Mutual Recognition Agreement (MRA).
- PCTEST TCB is a Telecommunication Certification Body (TCB) accredited to ISO/IEC Guide 65 by the American National Standards Institute (ANSI) in all scopes of FCC Rules.
- PCTEST is a CTIA Authorized Test Laboratory (CATL) for AMPS, CDMA, and EvDO wireless devices and for Over-the-Air (OTA) Antenna Performance testing for AMPS, CDMA, GSM, GPRS, EGPRS, UMTS (W-CDMA), CDMA 1xEVDO, and CDMA 1xRTT.

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 3 of 38

1.0 INTRODUCTION

1.1 Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission and the Industry Canada Certification and Engineering Bureau.

1.2 Testing Facility

The map below shows the location of the PCTEST LABORATORY, its proximity to the FCC Laboratory, the Columbia vicinity, the Baltimore-Washington Internt'l (BWI) airport, the city of Baltimore and the Washington, DC area. (See **Figure 1-1**).

These measurement tests were conducted at the PCTEST Engineering Laboratory, Inc. facility located at 7185 Oakland Mills Road, Columbia, MD 21046. The site coordinates are 39° 10'23" N latitude and 76° 49'50" W longitude. The facility is 0.4 miles North of the FCC laboratory, and the ambient signal and ambient signal strength are approximately equal to those of the FCC laboratory. The detailed description of the measurement facility was found to be in compliance with the requirements of § 2.948 according to ANSI C63.4-2003 on February 15, 2012.

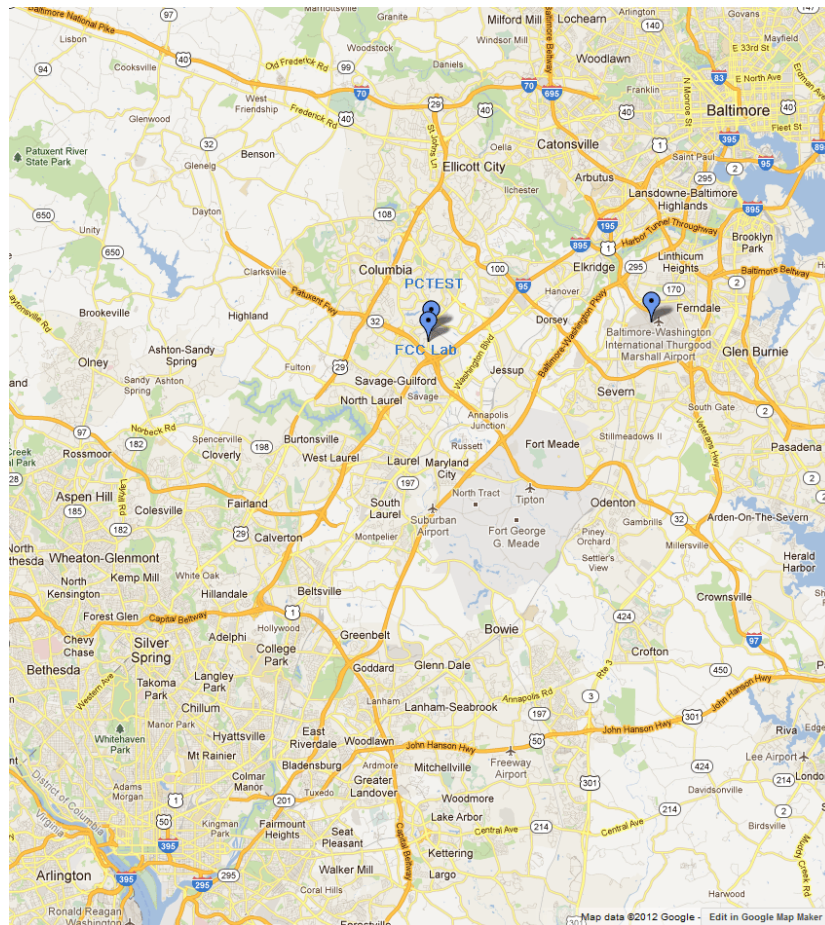


Figure 1-1. Map of the Greater Baltimore and Metropolitan Washington, D.C. area

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 4 of 38

2.0 PRODUCT INFORMATION

2.1 Equipment Description

The Equipment Under Test (EUT) is the **Samsung Portable Handset FCC ID: A3LSMN910P**. The EUT consisted of the following component(s):

Trade Name / Base Model	FCC ID	Description
Samsung / Model: SM-N910P	A3LSMN910P	Portable Handset

Table 2-1. EUT Equipment Description

Note: All data contained in this report is applicable for the device operation in the BC10 (817 – 824 MHz) and Band-26 LTE(814-824 MHz.) Test data shown supports the devices compliance with §90.691 of the FCC Rules and Regulation.

2.2 Device Capabilities

This device contains the following capabilities:

850/1900 GSM/GPRS/EDGE, 850/1900 WCDMA/HSPA, 850/1900 CDMA/EvDO Rev 0/A, 1x Advanced (BC0, BC1, BC10), Multi-band LTE, 802.11a/b/g/n/ac WLAN, 802.11a/n/ac UNII, Bluetooth (1x, EDR, LE), NFC, ANT+

2.3 Test Configuration

The Samsung Portable Handset FCC ID: A3LSMN910P was tested per the guidance of ANSI/TIA-603-C-2004 and KDB 971168 v02r01. See Section 3.3 of this test report for a description of the radiated and antenna port conducted emissions tests.

This device supports a wireless charging cover. Per KDB 648474 D03, spurious emissions measurement data was also investigated with the wireless charging battery cover. The handset was placed on the representative charging pad under normal conditions and in a simulated call configuration. Only worst case emissions are shown in this report and identified as WCC.

2.4 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and no modifications were made during testing.

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 5 of 38

3.0 DESCRIPTION OF TESTS

3.1 Evaluation Procedure

The measurement procedures described in the “Land Mobile FM or PM – Communications Equipment Measurements and Performance Standards” (ANSI/TIA-603-C-2004) was used in the measurement of the measurement of the **Samsung Portable Handset FCC ID: A3LSMN910P**.

3.2 Occupied Bandwidth

§2.1049

The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured. The spectrum analyzers’ “occupied bandwidth” measurement function was used to record the occupied bandwidth in accordance with KDB 971168.

3.3 Spurious and Harmonic Emissions at Antenna Terminal

§2.1051, §90.691

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic.

Out-of-band emission requirement shall apply only to the “outer” channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 6 of 38

3.4 Radiated Spurious Emissions

§2.1053, §90.635, §90.691

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. The test site inside the chamber is a 6m x 5.2m elliptical, obstruction-free area in accordance with Clause 5, Figure 5.7 of ANSI C63.4-2009. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed. An ETS Lindgren Model 2188 raised turntable is used for radiated measurement. It is a continuously rotatable, remote-controlled, metallic turntable and 2 meters (6.56 ft.) in diameter. The turn table is flush with the raised floor of the chamber in order to maintain its function as a ground plane. A 78cm high PVC support structure is placed on top of the turntable. A ¾" (~1.9cm) sheet of high density polyethylene is used as the table top and is placed on top of the PVC supports to bring the total height of the table to 80cm.

The equipment under test was transmitting while connected to its integral antenna and is placed on a wooden turntable 80cm above the ground plane and 3 meters from the receive antenna. The receive antenna height is adjusted between 1 and 4 meter height, the turntable is rotated through 360 degrees, and the EUT is manipulated through all orthogonal planes representative of its typical use to achieve the highest reading on the receive spectrum analyzer. Radiated power levels are also investigated with the receive antenna horizontally and vertically polarized. The maximized power level is recorded using the spectrum analyzer "Channel Power" function with the integration band set to the emissions' occupied bandwidth, a RMS detector, RBW = 100kHz, VBW = 300kHz, and a 1 second sweep time over a minimum of 10 sweeps, per the guidelines of KDB 971168.

Per the guidance of ANSI/TIA-603-C-2004, a half-wave dipole is then substituted in place of the EUT. For emissions above 1GHz, a horn antenna is substituted in place of the EUT. The substitute antenna is driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer level previously recorded from the spurious emission from the EUT. The power of the emission is calculated using the following formula:

$$P_d \text{ [dBm]} = P_g \text{ [dBm]} - \text{cable loss [dB]} + \text{antenna gain [dBd/dBi]}$$

Where, P_d is the dipole equivalent power, P_g is the generator output into the substitution antenna, and the antenna gain is the gain of the substitute antenna used relative to either a half-wave dipole (dBd) or an isotropic source (dBi). The substitute level is equal to $P_g \text{ [dBm]} - \text{cable loss [dB]}$.

The calculated P_d levels are then compared to the absolute spurious emission limit of -13dBm which is equivalent to the required minimum attenuation of $43 + 10\log_{10}(\text{Power [Watts]})$ specified in 90.691.

For fundamental radiated power measurements, the guidance of KDB 971168 is used to record the EUT power level that is subsequently matched via the aforementioned substitution method given in ANSI/TIA-603-C-2004.

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 7 of 38

3.5 Frequency Stability / Temperature Variation

§2.1055, 90.213(a)

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-C-2004. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

Specification – For Part 90.213, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency.

Time Period and Procedure:

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A sufficient stabilization period at each temperature shall be used prior to each frequency requirement.

FCC ID: A3LSMN910P			Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION 	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 8 of 38

4.0 TEST EQUIPMENT CALIBRATION DATA

Test Equipment Calibration is traceable to the National Institute of Standards and Technology (NIST).

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
-	LTx1	Licensed Transmitter Cable Set	1/29/2014	Annual	1/29/2015	N/A
-	RE1	Radiated Emissions Cable Set (UHF/EHF)	3/25/2014	Annual	3/25/2015	N/A
Agilent	8447D	Broadband Amplifier	5/30/2014	Annual	5/30/2015	2443A01900
Agilent	N9020A	MXA Signal Analyzer	10/29/2013	Annual	10/29/2014	US46470561
Emco	3115	Horn Antenna (1-18GHz)	1/30/2014	Biennial	1/30/2016	9704-5182
Espec	ESX-2CA	Environmental Chamber	4/16/2014	Annual	4/16/2015	17620
ETS Lindgren	3117	1-18 GHz DRG Horn (Medium)	4/8/2014	Biennial	4/8/2016	125518
ETS Lindgren	3160-09	18-26.5 GHz Standard Gain Horn	6/17/2014	Biennial	6/17/2016	135427
ETS Lindgren	3164-08	Quad Ridge Horn Antenna	3/12/2014	Biennial	3/12/2016	128337
K & L	11SH10-3075/U18000	High Pass Filter	5/2/2014	Annual	5/2/2015	2
Mini-Circuits	PWR-SENS-4RMS	USB Power Sensor	4/17/2014	Annual	4/17/2015	11210140001
Mini-Circuits	SSG-4000HP	USB Synthesized Signal Generator	N/A			11208010032
Mini-Circuits	TVA-11-422	RF Power Amp	N/A			QA1303002
Mini-Circuits	VHF-1200+	High Pass Filter	1/27/2014	Annual	1/27/2015	30923
Rohde & Schwarz	CMU200	Base Station Simulator	N/A			836371/0079
Rohde & Schwarz	CMW500	LTE Radio Communication Tester	N/A			100976
Rohde & Schwarz	ESU26	EMI Test Receiver (26.5GHz)	1/27/2014	Annual	1/27/2015	100342
Rohde & Schwarz	TS-PR18	1-18 GHz Pre-Amplifier	3/5/2014	Annual	3/5/2015	100071
Rohde & Schwarz	TS-PR26	18-26.5 GHz Pre-Amplifier	3/12/2014	Annual	3/12/2015	100040
Schwarzbeck	UHA 9105	Dipole Antenna (400 - 1GHz) Rx	11/21/2013	Biennial	11/21/2015	9105-2404
Seekonk	NC-100	Torque Wrench (8" lb)	4/16/2014	Biennial	4/16/2016	N/A
Sunol	JB5	Bi-Log Antenna (30M - 5GHz)	1/28/2014	Biennial	1/28/2016	A051107
VWR	62344-734	Thermometer with Clock	2/20/2014	Biennial	2/20/2016	140140336

Table 4-1. Test Equipment

Note:

- Equipment with a calibration date of "N/A" shown in this list was not used to make direct calibrated measurements.

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset	Page 9 of 38	

5.0 SAMPLE CALCULATIONS

Emission Designator

Emission Designator = 1M25F9W

CDMA BW = 1.25 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data) (Measured at the 99.75% power bandwidth)

QPSK Modulation

Emission Designator = 8M62G7D

LTE BW = 8.62 MHz

G = Phase Modulation

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

16QAM Modulation

Emission Designator = 8M45W7D

LTE BW = 8.45 MHz

W = Amplitude/Angle Modulated

7 = Quantized/Digital Info

D = Data transmission, telemetry, telecommand

Spurious Radiated Emission – BC10

Example: Channel 476 CDMA BC10 Mode 3rd Harmonic (2453.70MHz)

The average spectrum analyzer reading at 3 meters with the EUT on the turntable was –81.0 dBm. The gain of the substituted antenna is 8.1 dBi. The signal generator connected to the substituted antenna terminals is adjusted to produce a reading of –81.0 dBm on the spectrum analyzer. The loss of the cable between the signal generator and the terminals of the substituted antenna is 2.0 dB at 2453.70 MHz. So 6.1 dB is added to the signal generator reading of –30.9 dBm yielding –24.80 dBm. The fundamental EIRP was 25.501 dBm so this harmonic was 25.501 dBm – (-24.80) = 50.3 dBc.

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 10 of 38

6.0 TEST RESULTS

6.1 Summary

Company Name: Samsung Electronics, Co. Ltd.
 FCC ID: A3LSMN910P
 FCC Classification: PCS Licensed Transmitter Held to Ear (PCE)
 Mode(s): CDMA/ LTE
 Band: Band Class 10 / Band 26

FCC Part Section(s)	Test Description	Test Limit	Test Condition	Test Result	Reference
§2.1051, §90.691	Band Edge / Conducted Spurious Emissions	$> 50 + 10\log_{10}(P[\text{Watts}])$ at Band Edge and for all out-of-band emissions within 37.5kHz of Block Edge	CONDUCTED	PASS	Section 7.0
§2.1046, §90.635	Conducted Power	< 100 Watts		PASS	Section 6.2
§2.1055, §90.213	Frequency Stability	< 2.5 ppm		PASS	Section 6.4
§2.1053, §90.691	Undesirable Emissions	$> 43 + 10\log_{10}(P[\text{Watts}])$ for all out-of-band emissions	RADIATED	PASS	Sections 6.3

Table 6-1. Summary of Test Results

Notes:

- 1) All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
- 2) The analyzer plots shown in Section 7.0 were taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables, directional couplers, and attenuators used as part of the system to maintain a link between the call box and the EUT at all frequencies of interest.
- 3) All antenna port conducted emissions testing was performed on a test bench with the antenna port of the EUT connected to the spectrum analyzer through calibrated cables, attenuators, and couplers.
- 4) For conducted spurious emissions, automated test software was used to measure emissions and capture the corresponding plots necessary to show compliance. The measurement software utilized is PCTEST "2G/3G Automation", Version 2.7.

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 11 of 38

6.2 Conducted Power Output Data

§90.635

Frequency [MHz]	BC10 [Channel]	Battery Type	Cond. PWR [dBm]	Cond. PWR [Watts]	Cond. PWR Limit [dBm]	Margin [dB]
817.90	476	Standard	24.83	0.304	50.00	-25.17
823.10	684	Standard	24.82	0.303	50.00	-25.18

Table 6-2. CDMA BC10 Conducted Power Output Data

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Cond. PWR [dBm]	Cond. PWR [Watts]	Cond. PWR Limit [dBm]	Margin [dB]
814.70	1.4	QPSK	23.58	0.228	50.00	-26.42
823.30	1.4	QPSK	23.51	0.224	50.00	-26.49
814.70	1.4	16-QAM	22.63	0.183	50.00	-27.37
823.30	1.4	16-QAM	22.59	0.181	50.00	-27.41
815.50	3	QPSK	23.54	0.226	50.00	-26.46
822.50	3	QPSK	23.55	0.226	50.00	-26.46
815.50	3	16-QAM	22.60	0.182	50.00	-27.40
822.50	3	16-QAM	22.62	0.183	50.00	-27.38
816.50	5	QPSK	23.63	0.231	50.00	-26.37
821.50	5	QPSK	23.64	0.231	50.00	-26.36
816.50	5	16-QAM	22.68	0.185	50.00	-27.32
821.50	5	16-QAM	22.68	0.185	50.00	-27.32
819.00	10	QPSK	23.74	0.237	50.00	-26.26
819.00	10	16-QAM	22.83	0.192	50.00	-27.17

Table 6-3. LTE Band 26 Conducted Power Output Data

NOTES:

1. For CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits. For LTE mode, the device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported with 1 RB.

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 12 of 38

6.3 Radiated Spurious Emissions Measurements

§2.1053, §90.691

Field Strength of SPURIOUS Radiation for CDMA BC10

OPERATING FREQUENCY: 817.90 MHz

CHANNEL: 476

MEASURED OUTPUT POWER: 24.83 dBm = 0.304 W

MODULATION SIGNAL: CDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W)$ -13.00 dBm

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	Margin [dB]
1635.80	-38.61	3.64	-34.97	V	H2	-22.0
2453.70	-54.88	3.55	-51.33	V	H2	-38.3
3271.60	-60.78	5.58	-55.20	V	H2	-42.2
4089.50	-60.94	6.81	-54.13	V	H2	-41.1
4907.40	-60.39	7.79	-52.60	V	H2	-39.6

Table 6-4. CDMA BC10 Radiated Spurious Data (Ch. 476)

NOTES:

1. For CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits.
2. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables above.

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 13 of 38

Radiated Spurious Emissions Measurements

§2.1053, §90.691

Field Strength of SPURIOUS Radiation for CDMA BC10

OPERATING FREQUENCY: 823.10 MHz

CHANNEL: 684

MEASURED OUTPUT POWER: 24.82 dBm = 0.303 W

MODULATION SIGNAL: CDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W)$ -13.00 dBm

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	Margin [dB]
1646.20	-41.35	3.60	-37.75	V	H2	-24.8
2469.30	-52.68	3.54	-49.14	V	H2	-36.1
3292.40	-61.34	5.62	-55.72	V	H2	-42.7
4115.50	-59.88	6.86	-53.02	V	H2	-40.0
4938.60	-61.01	7.86	-53.15	V	H2	-40.1

Table 6-5. CDMA BC10 Radiated Spurious Data (Ch. 684)

NOTES:

1. For CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits.
2. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables above.

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 14 of 38

Radiated Spurious Emissions Measurements

§2.1053, §90.691

Field Strength of SPURIOUS Radiation for CDMA BC10

OPERATING FREQUENCY: 817.90 MHz

CHANNEL: 476

MEASURED OUTPUT POWER: 24.83 dBm = 0.304 W

MODULATION SIGNAL: CDMA

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W)$ -13.00 dBm

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	Margin [dB]
1635.80	-40.27	3.60	-36.67	H	H	-23.7
2453.70	-52.15	3.54	-48.61	H	H	-35.6
3271.60	-62.15	5.62	-56.53	H	H	-43.5
4089.50	-60.35	6.86	-53.49	H	H	-40.5
4907.40	-59.59	7.86	-51.73	H	H	-38.7

Table 6-6. CDMA BC10 Radiated Spurious Data with WCC (Ch. 476)

NOTES:

1. For CDMA mode, this device was tested under all R.C.s and S.O.s and the worst case is reported with RC3/SO55 with "All Up" power control bits.
2. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables above.

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 15 of 38

Field Strength of SPURIOUS Radiation for LTE Band 26

OPERATING FREQUENCY: 819.00 MHz

CHANNEL: 26740

MEASURED OUTPUT POWER: 23.74 dBm = 0.237 W

MODULATION SIGNAL: QPSK

BANDWIDTH: 10.0 MHz

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W)$ -13.00 dBm

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	Margin [dB]
1638.00	-46.49	3.64	-42.86	V	H2	-29.9
2457.00	-57.20	3.55	-53.65	V	H2	-40.6
3276.00	-61.85	5.59	-56.26	V	H2	-43.3
4095.00	-61.18	6.81	-54.37	V	H2	-41.4

Table 6-7. Radiated Spurious Data (Ch. 26697)

NOTES:

1. For LTE mode, the device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported with 1 RB.
2. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables above.

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 16 of 38

Radiated Spurious Emissions Measurements

§2.1053, §90.691

Field Strength of SPURIOUS Radiation for LTE Band 26

OPERATING FREQUENCY: 819.00 MHz

CHANNEL: 26740

MEASURED OUTPUT POWER: 23.74 dBm = 0.237 W

MODULATION SIGNAL: QPSK

BANDWIDTH: 10.0 MHz

DISTANCE: 3 meters

LIMIT: $43 + 10 \log_{10} (W)$ -13.00 dBm

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	EUT Pol. [H/H2/V]	Margin [dB]
1638.00	-49.27	3.64	-45.64	H	H	-32.6
2457.00	-58.96	3.55	-55.41	H	H	-42.4
3276.00	-62.33	5.59	-56.74	H	H	-43.7
4095.00	-60.46	6.81	-53.65	H	H	-40.6

Table 6-8. Radiated Spurious Data with WCC (Ch. 26740)

NOTES:

1. For LTE mode, the device was tested under all modulations, RB sizes and offsets, and channel bandwidth configurations and the worst case emissions are reported with 1 RB.
2. The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables above.

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 17 of 38

6.4 Frequency Stability / Temperature Variation

OPERATING FREQUENCY: 817,900,000 Hz
 CHANNEL: 476
 REFERENCE VOLTAGE: 3.85 VDC
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	817,900,025	25	0.0000031
100 %		- 30	817,900,010	10	0.0000012
100 %		- 20	817,900,020	20	0.0000024
100 %		- 10	817,899,986	-14	-0.0000017
100 %		0	817,899,991	-9	-0.0000011
100 %		+ 10	817,899,995	-5	-0.0000006
100 %		+ 20	817,899,979	-21	-0.0000026
100 %		+ 30	817,899,987	-13	-0.0000016
100 %		+ 40	817,899,971	-29	-0.0000035
100 %		+ 50	817,900,018	18	0.0000022
BATT. ENDPOINT		+ 20	817,900,015	15	0.0000018

Table 6-9. CDMA BC10 Frequency Stability Data (Ch. 670)

Frequency Stability / Temperature Variation

§2.1055, §90.213

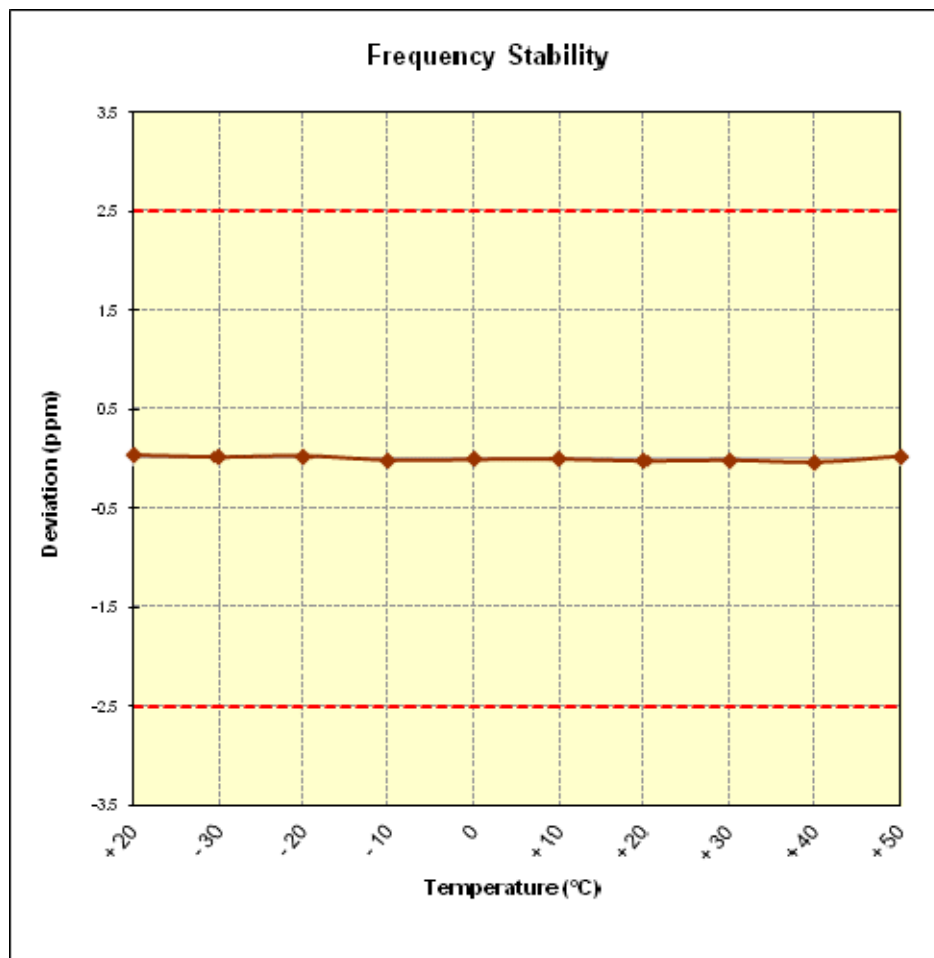


Figure 6-1. CDMA BC10 Frequency Stability Graph (Ch. 670)

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 19 of 38

Frequency Stability / Temperature Variation

§2.1055, §90.213

OPERATING FREQUENCY: 819,000,000 Hz
 CHANNEL: 26740
 REFERENCE VOLTAGE: 3.85 VDC
 DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	818,999,998	-2	-0.0000002
100 %		- 30	818,999,976	-24	-0.0000029
100 %		- 20	818,999,993	-7	-0.0000009
100 %		- 10	819,000,005	5	0.0000006
100 %		0	819,000,017	17	0.0000021
100 %		+ 10	819,000,019	19	0.0000023
100 %		+ 20	819,000,012	12	0.0000015
100 %		+ 30	818,999,973	-27	-0.0000033
100 %		+ 40	819,000,019	19	0.0000023
100 %		+ 50	818,999,977	-23	-0.0000028
BATT. ENDPOINT		+ 20	819,000,001	1	0.0000001

Table 6-10. LTE Band 26 Frequency Stability Data (Ch. 26697)

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 20 of 38

Frequency Stability / Temperature Variation

§2.1055, §90.213

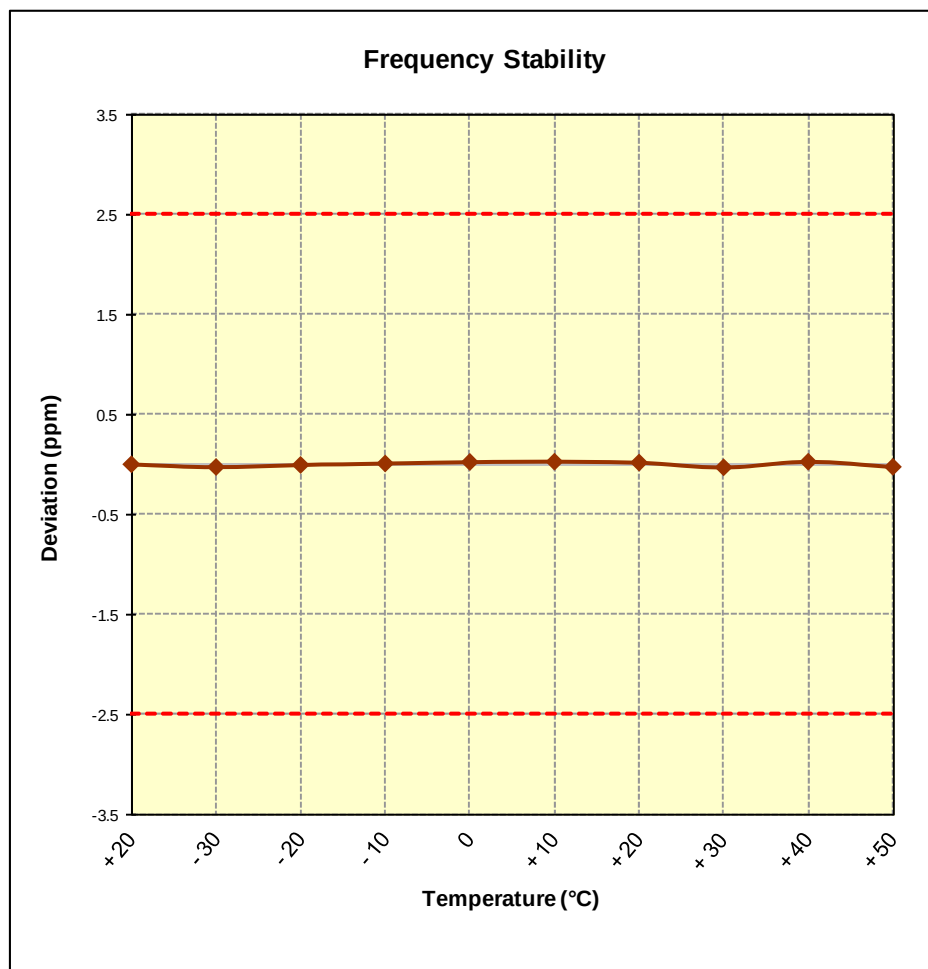
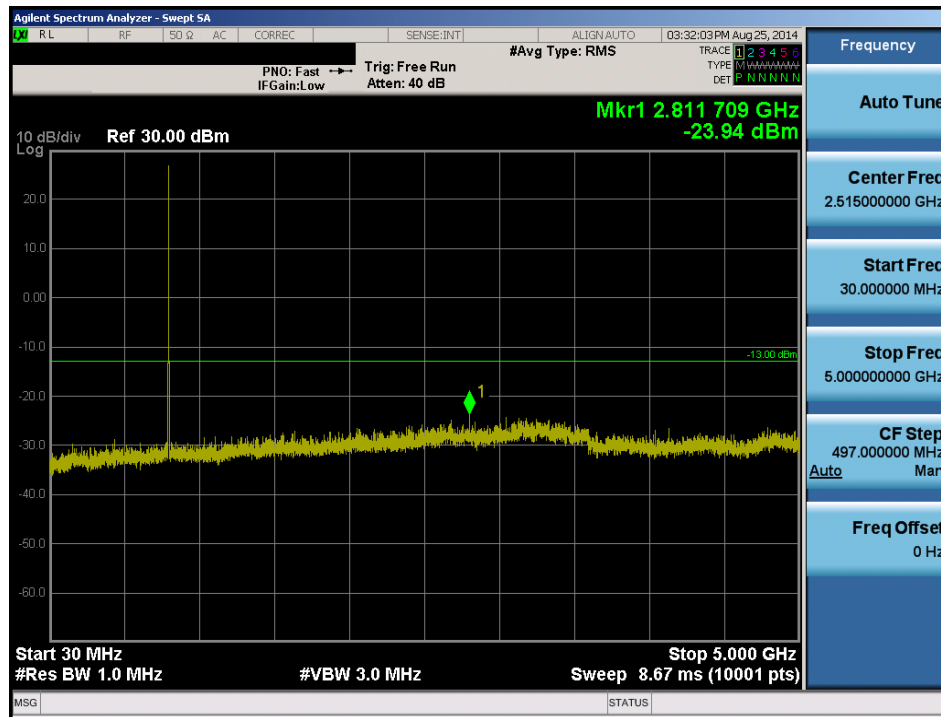


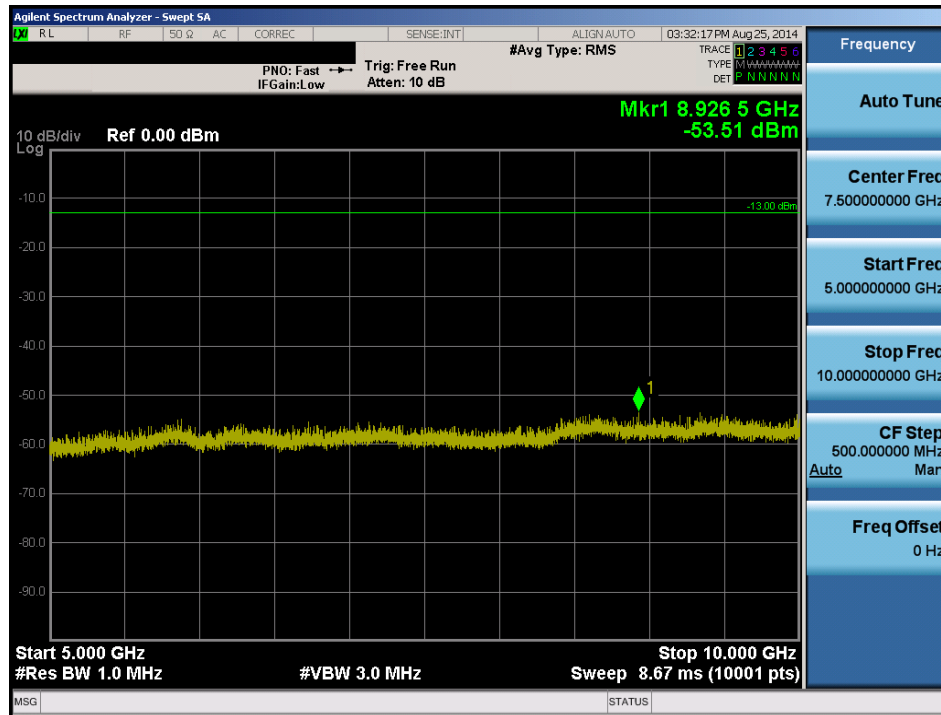
Table 6-11. LTE Band 26 Frequency Stability Data (Ch. 26697)

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 21 of 38

7.0 CDMA PLOTS OF EMISSIONS

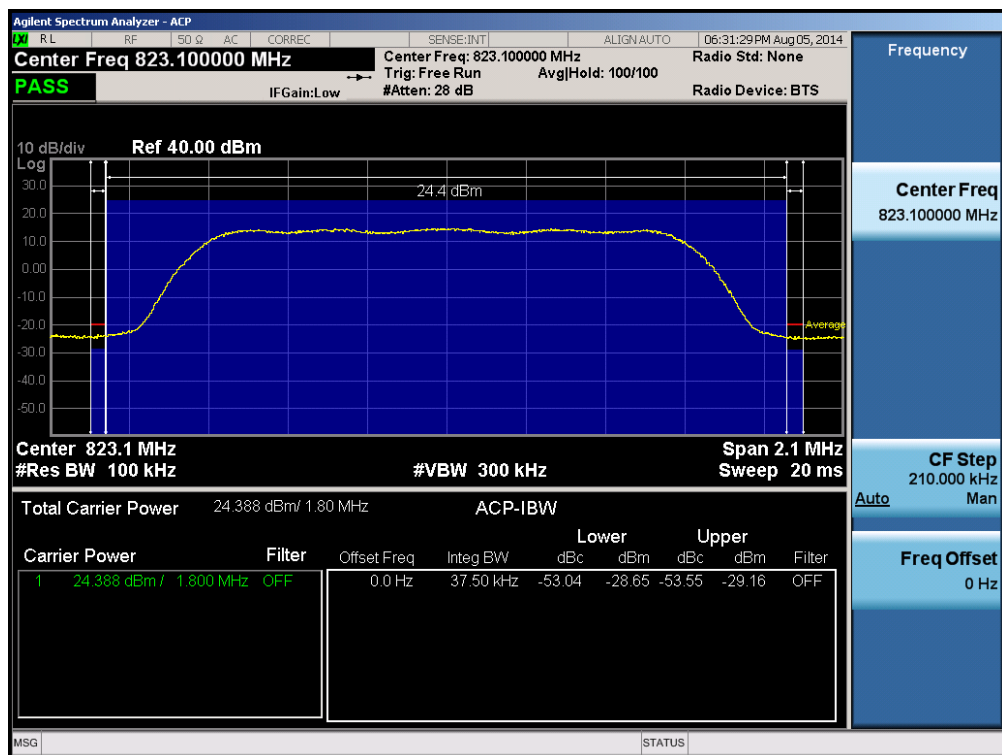


Plot 7-1. Conducted Spurious Plot (Ch. 476)



Plot 7-2. Conducted Spurious Plot (Ch. 476)

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 22 of 38



Plot 7-3. Channel Edge Plot (Ch. 476)

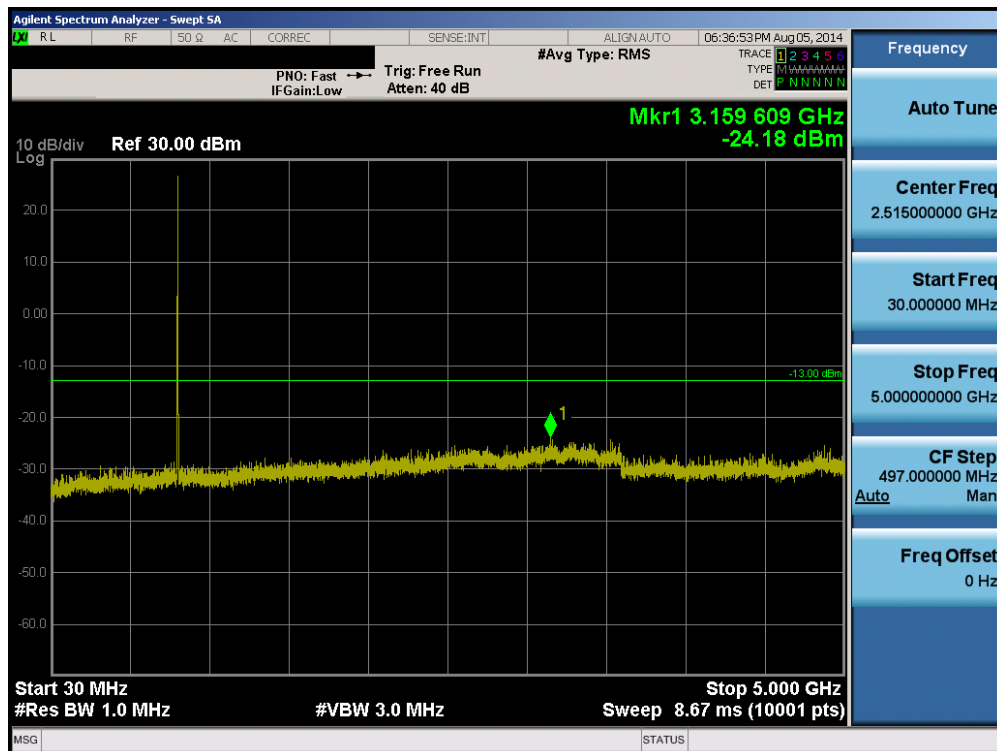


Plot 7-4. Inner Extended Band Edge Plot (Ch. 476)

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 23 of 38

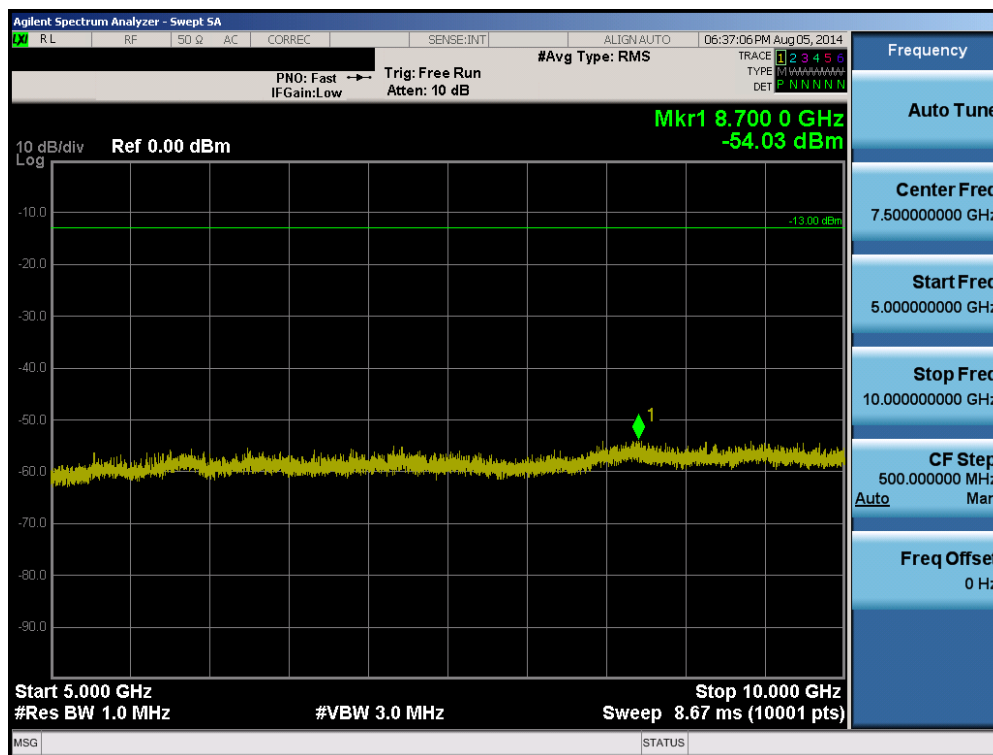


Plot 7-5. Outer Extended Band Edge Plot (Ch. 476)

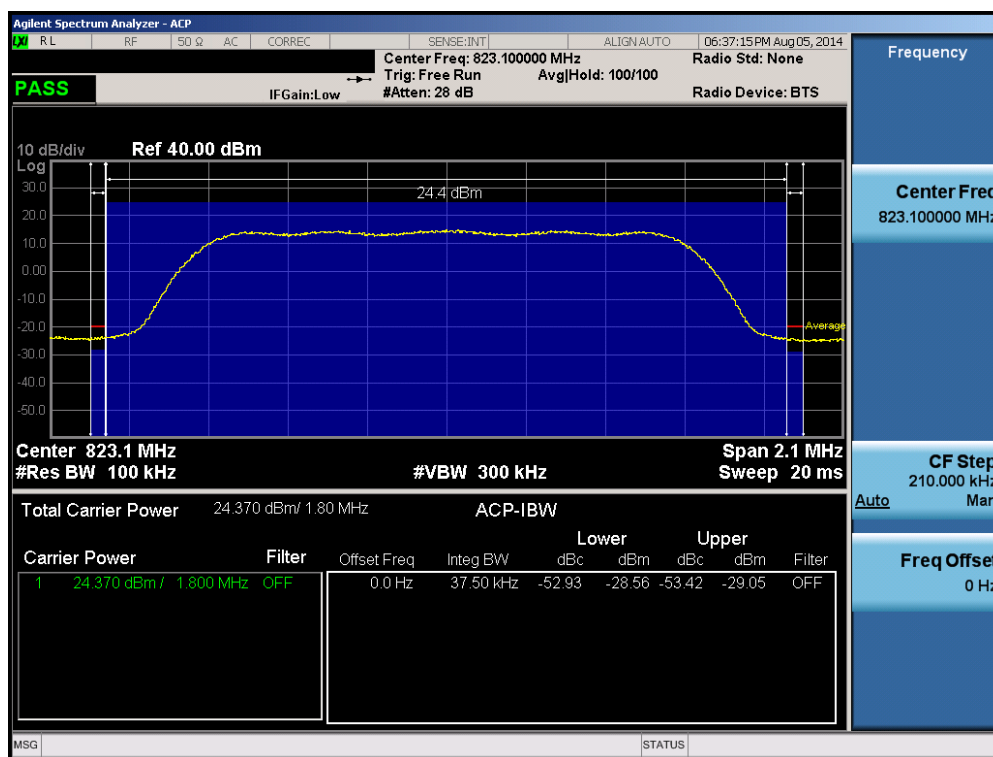


Plot 7-6. Conducted Spurious Plot (Ch. 684)

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDo / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 24 of 38



Plot 7-7. Conducted Spurious Plot (Ch. 684)



Plot 7-8. Channel Edge Plot (Ch. 684)

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 25 of 38

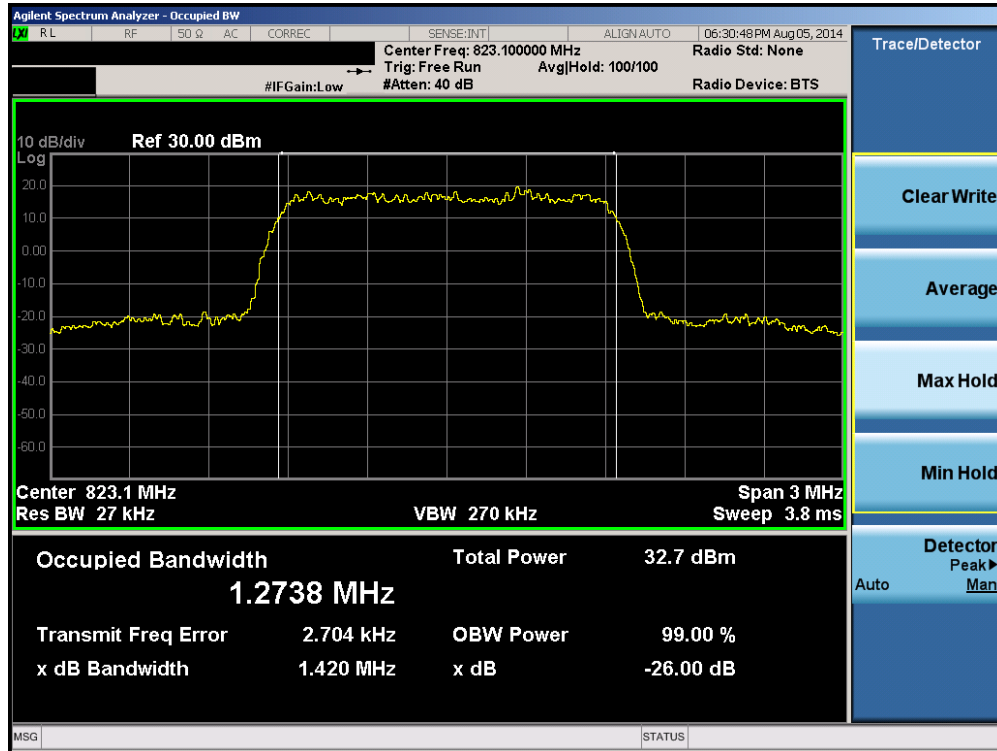


Plot 7-9. Inner Extended Band Edge Plot (Ch. 684)

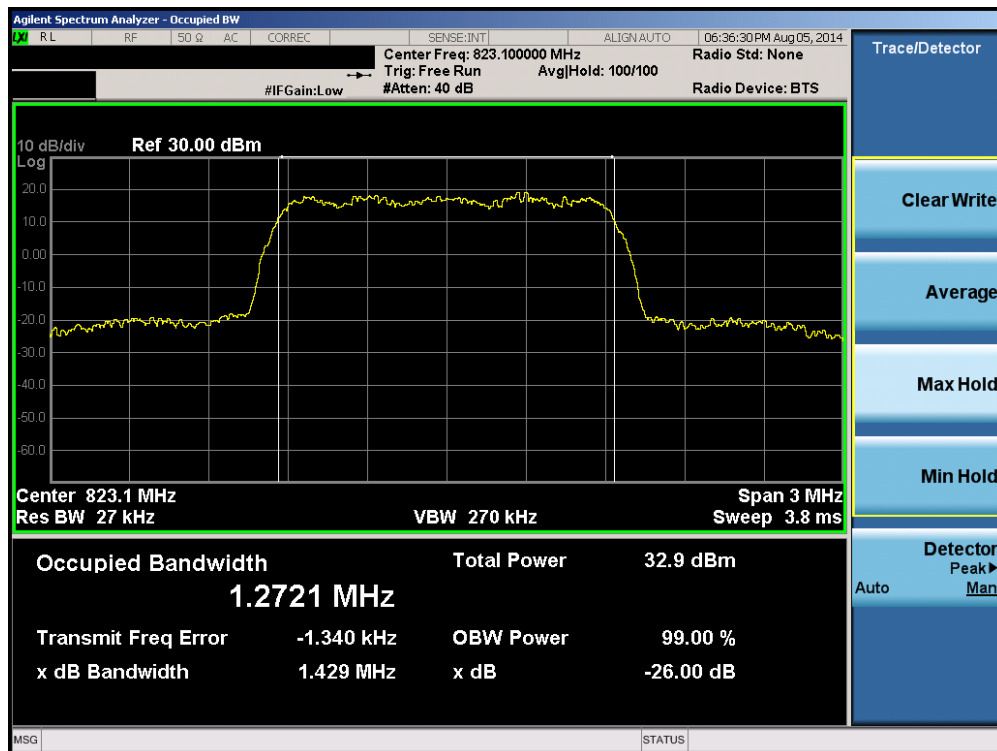


Plot 7-10. Outer Extended Band Edge Plot (Ch. 684)

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 26 of 38



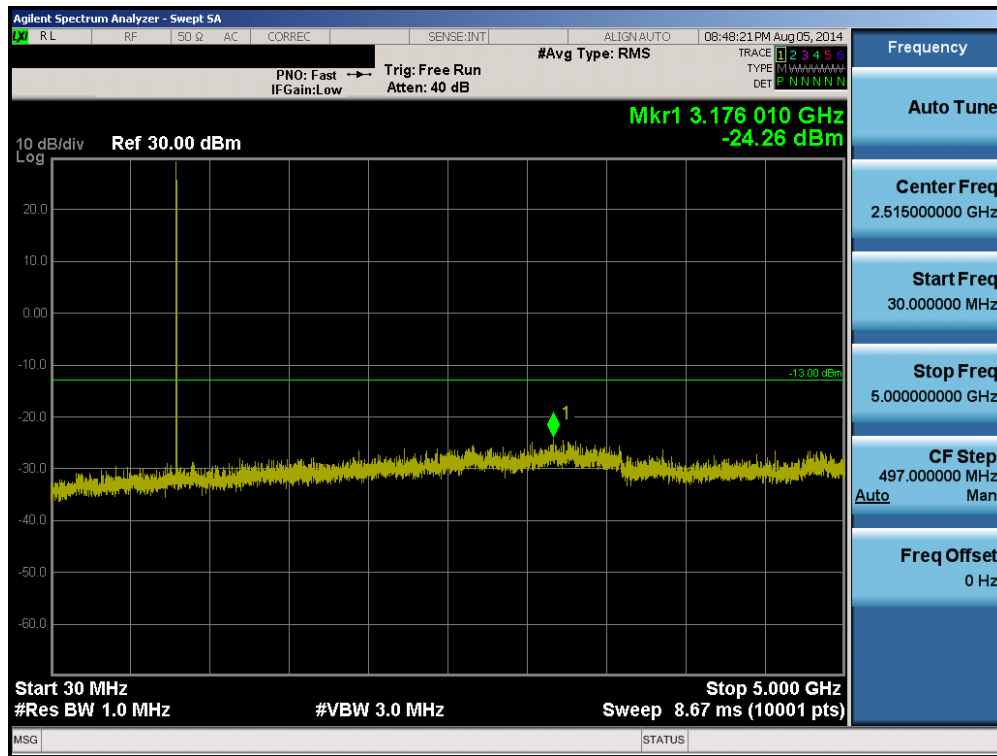
Plot 7-11. Occupied Bandwidth Plot (Ch. 476)



Plot 7-12. Occupied Bandwidth Plot (Ch. 684)

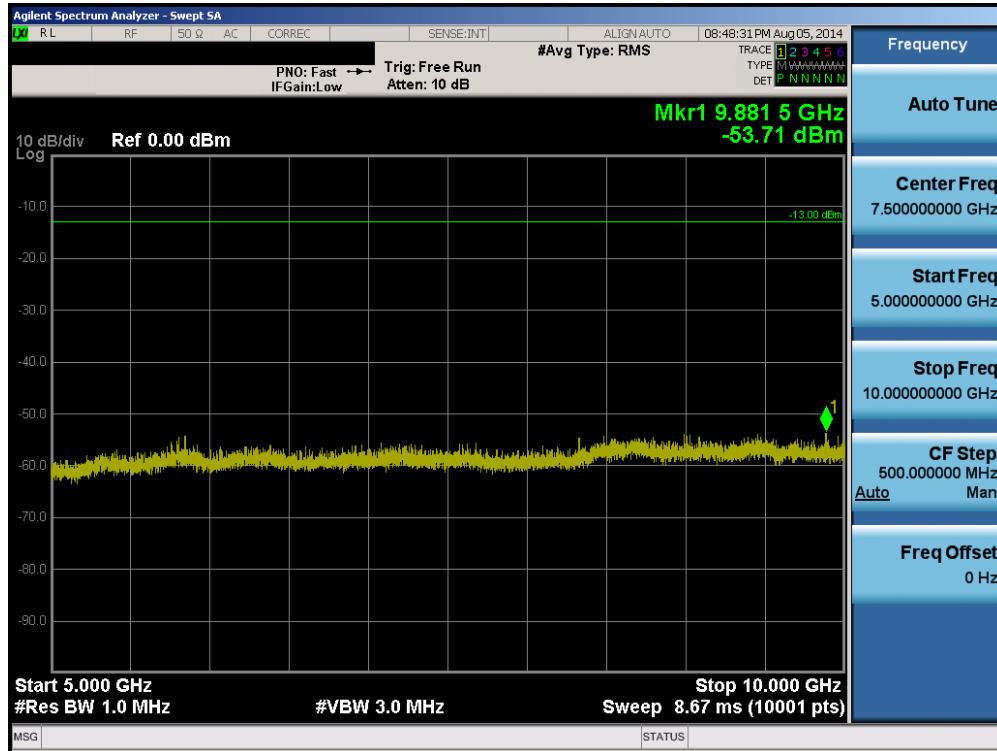
FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDo / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 27 of 38

8.0 LTE PLOTS OF EMISSIONS

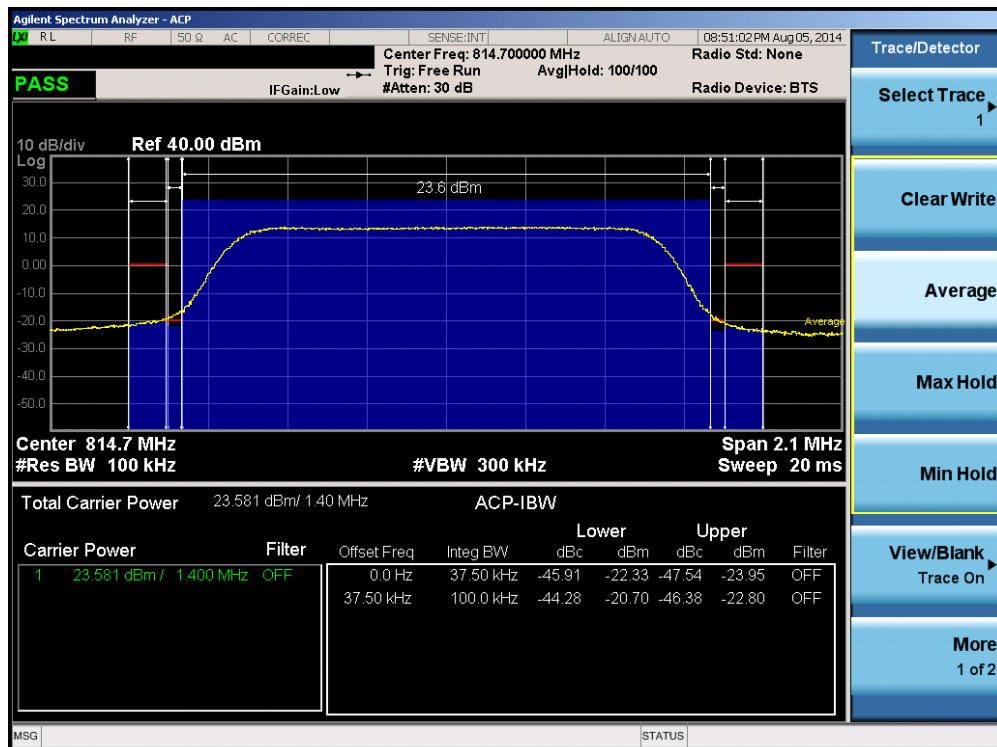


Plot 8-1. Conducted Spurious Plot (1.4MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 28 of 38

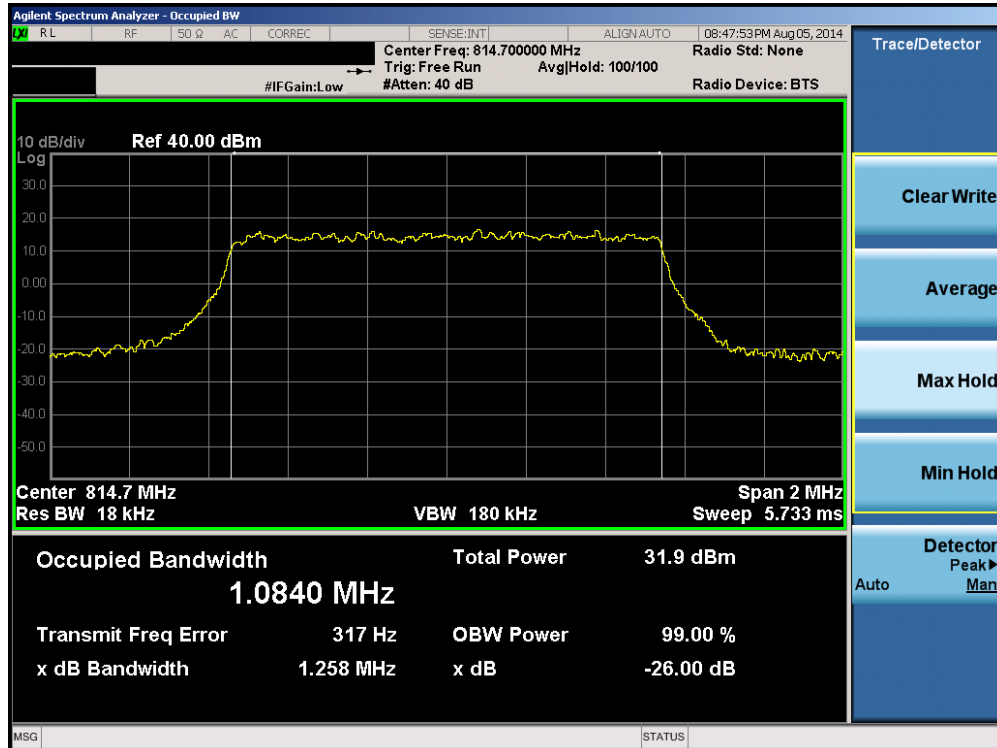


Plot 8-2. Conducted Spurious Plot (1.4MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

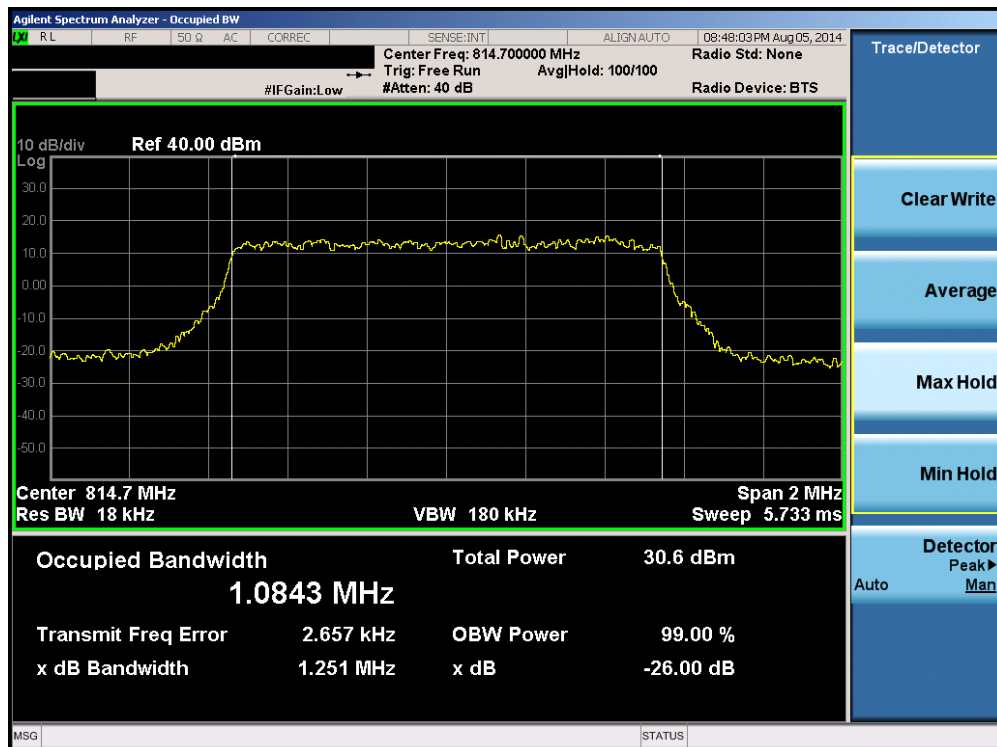


Plot 8-3. Channel Edge Plot (1.4MHz QPSK – RB Size 6– Low Channel)

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 29 of 38

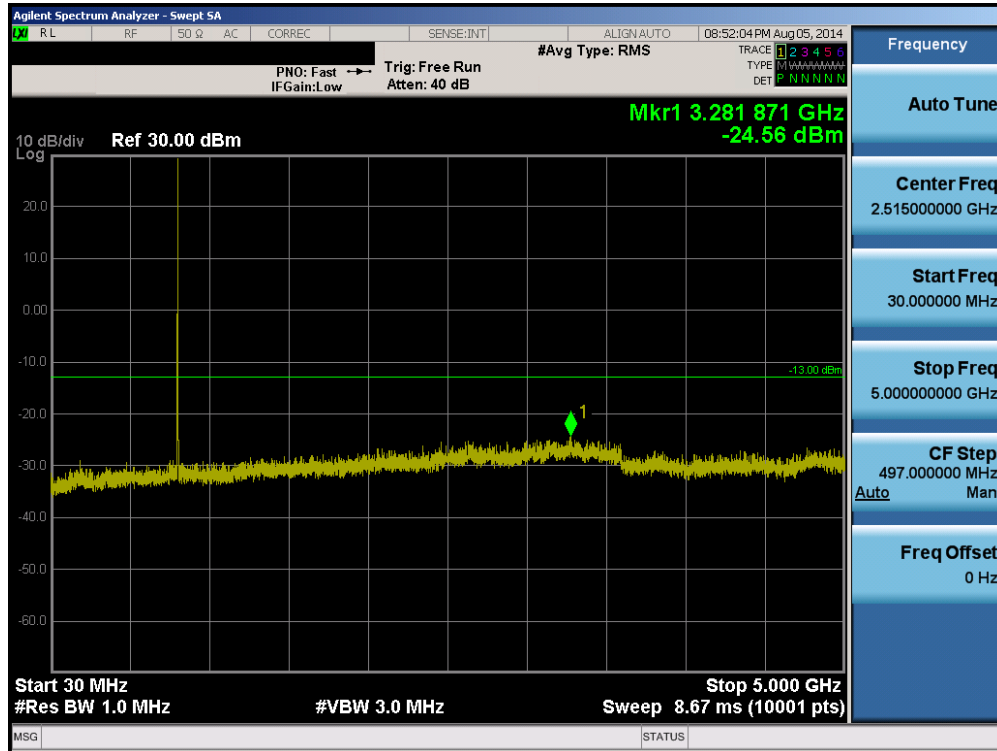


Plot 8-4. Occupied Bandwidth Plot (1.4MHz QPSK – RB Size 6– Low Channel)

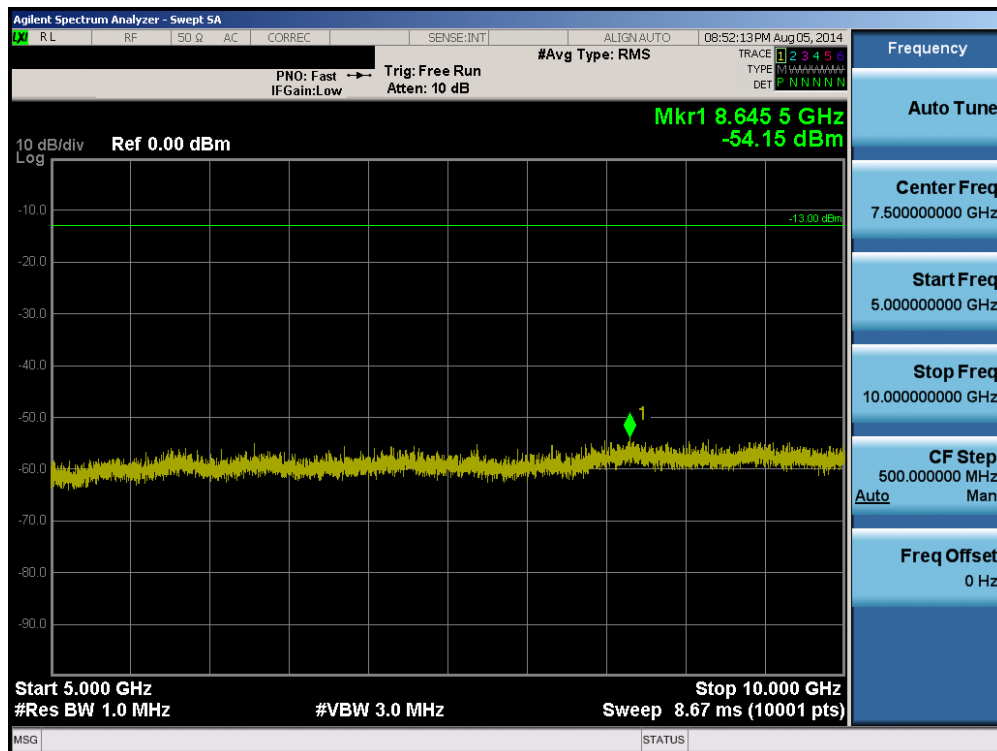


Plot 8-5. Occupied Bandwidth Plot (1.4MHz 16-QAM – RB Size 6– Low Channel)

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 30 of 38

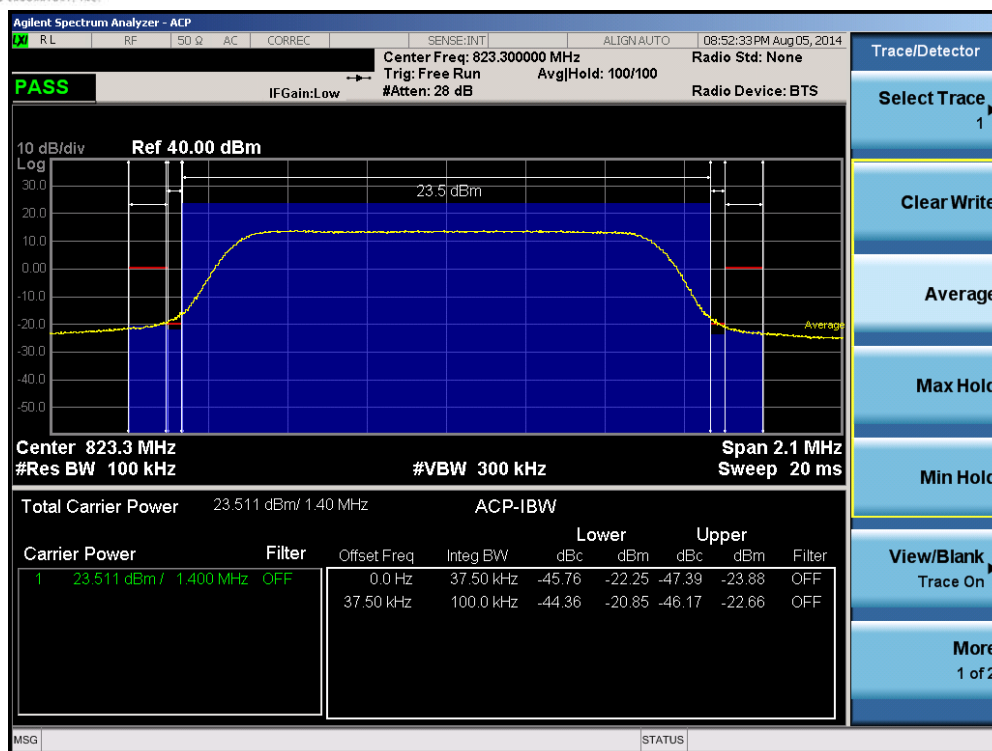


Plot 8-6. Conducted Spurious Plot (1.4MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

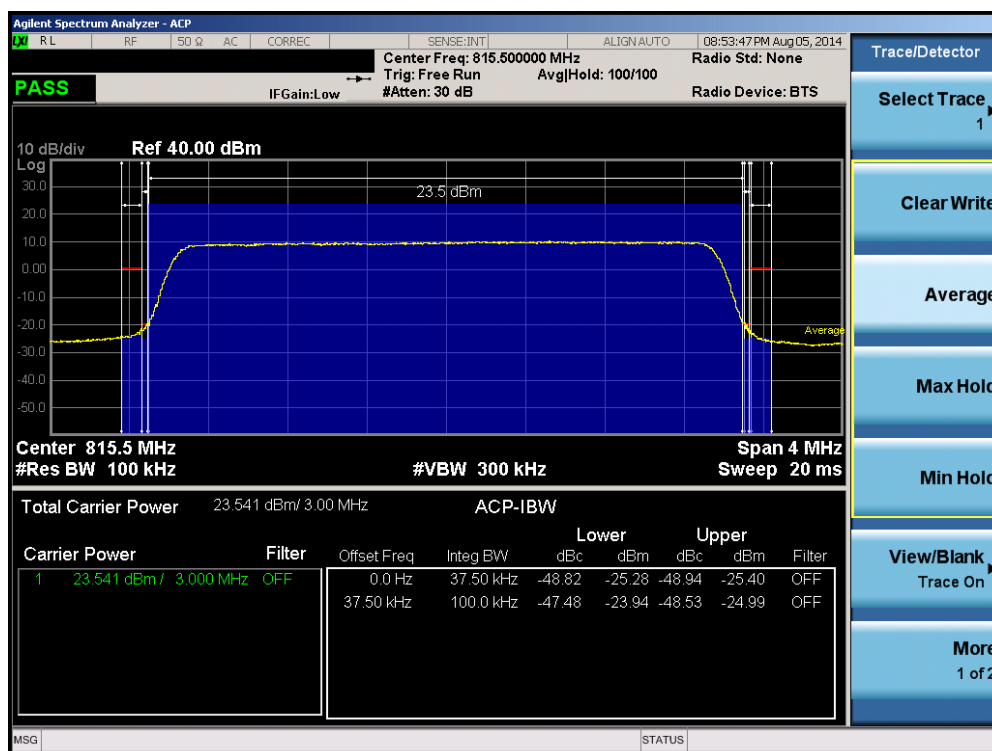


Plot 8-7. Conducted Spurious Plot (1.4MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 31 of 38

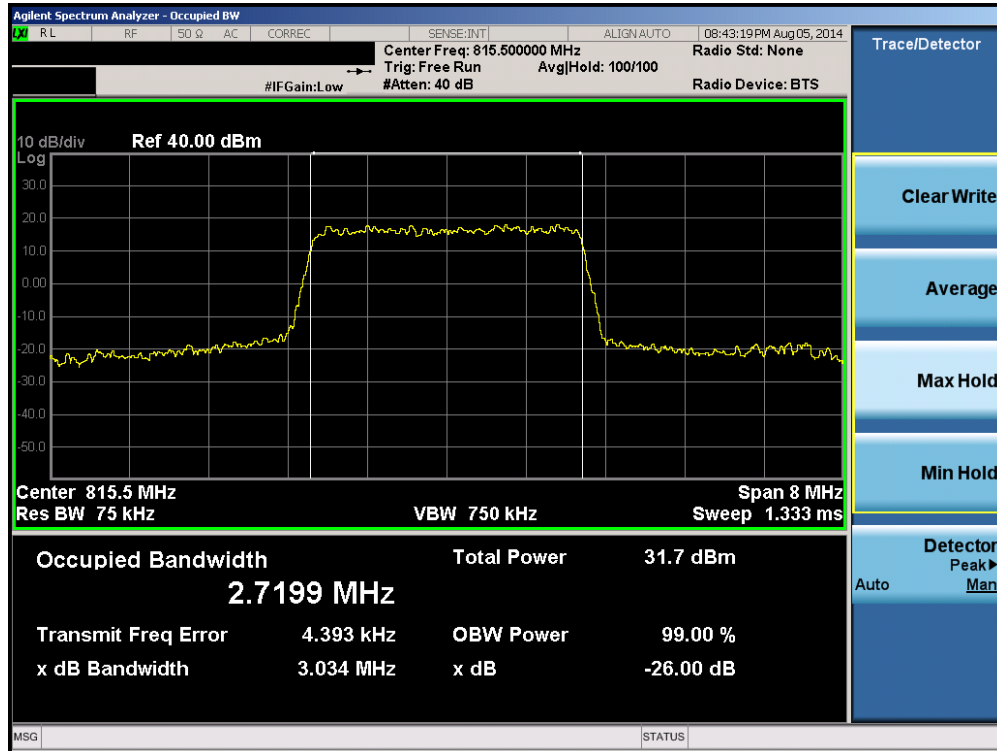


Plot 8-8. Channel Edge Plot (1.4MHz QPSK – RB Size 6 – High Channel)

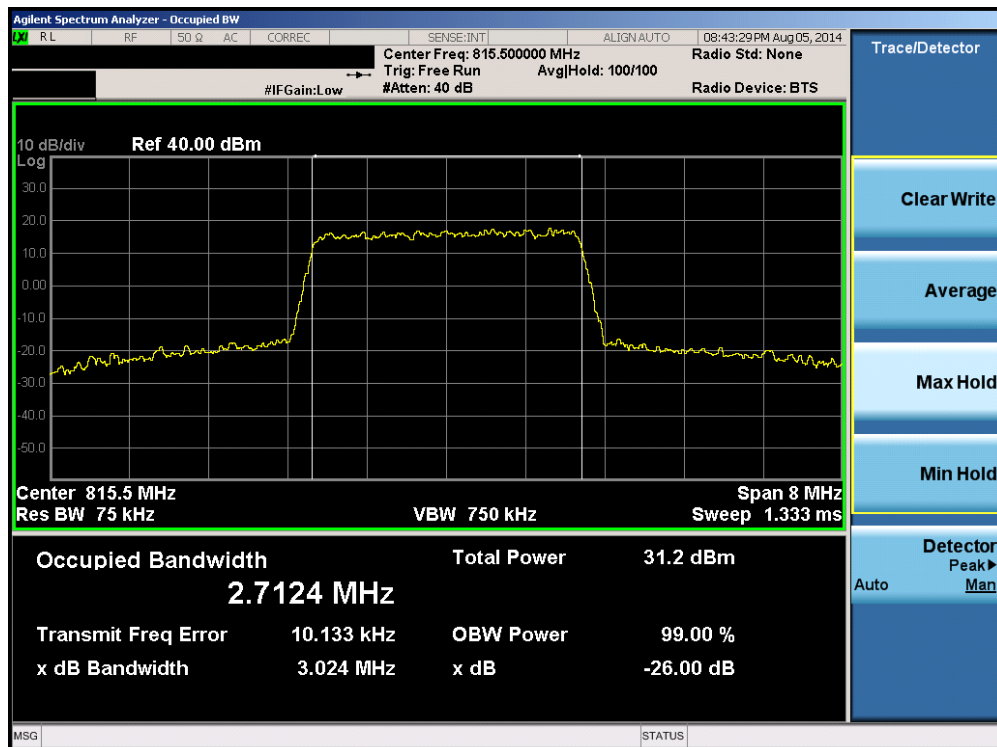


Plot 8-9. Channel Edge Plot (3MHz QPSK – RB Size 15– Low Channel)

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 32 of 38

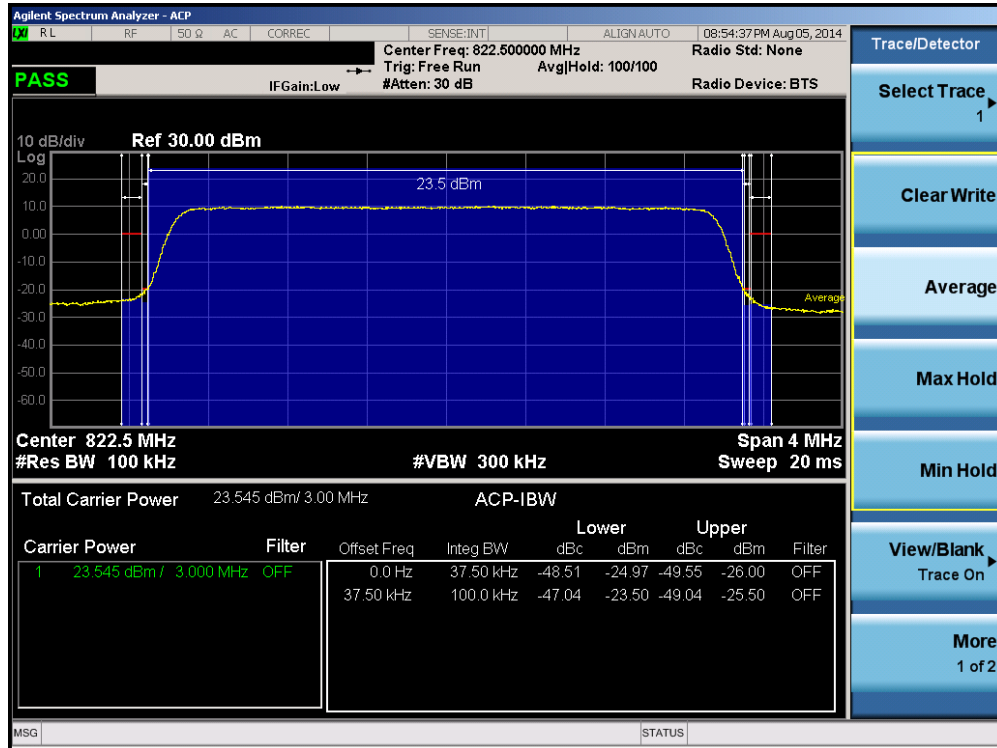


Plot 8-10. Occupied Bandwidth Plot (3MHz QPSK – RB Size 15– Low Channel)

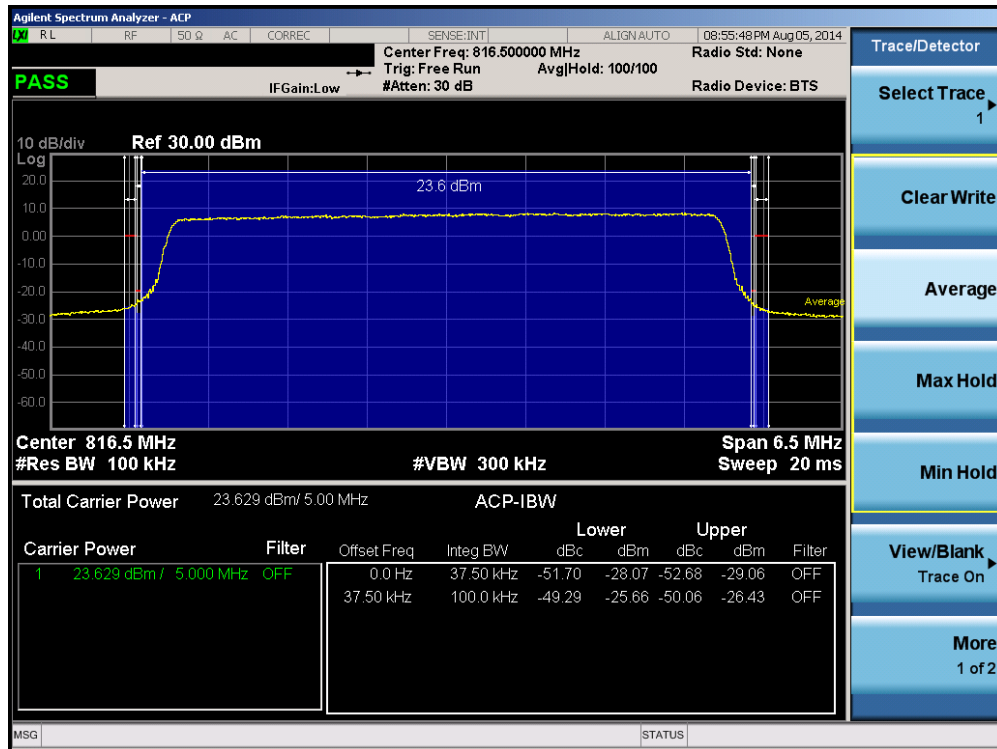


Plot 8-11. Occupied Bandwidth Plot (3MHz 16-QAM – RB Size 15– Low Channel))

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 33 of 38

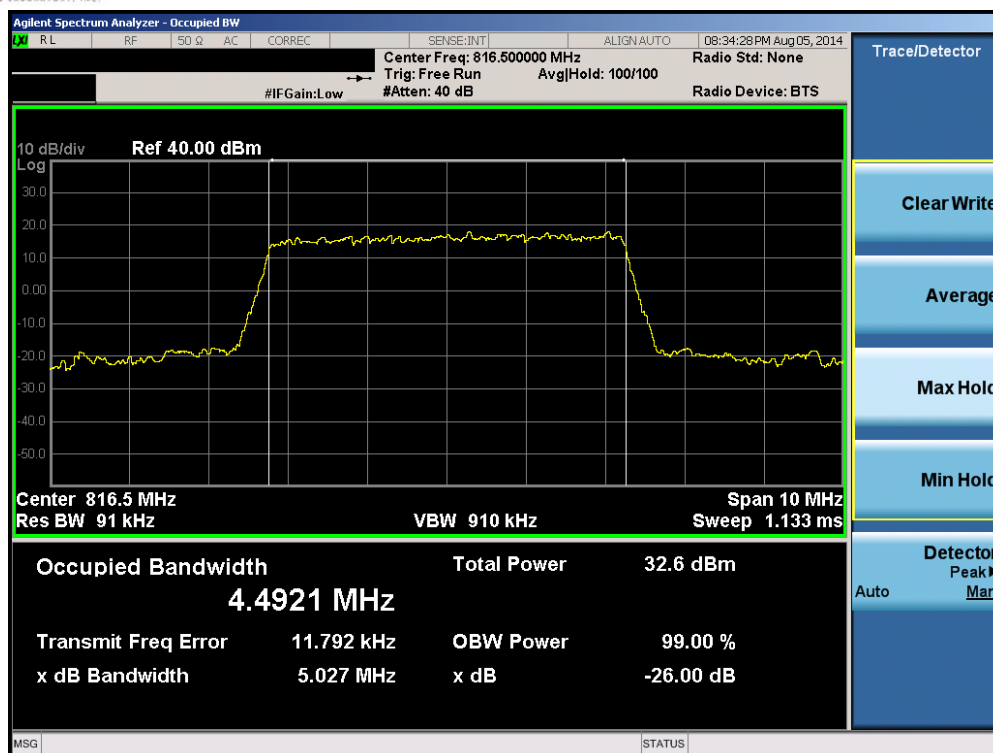


Plot 8-12. Channel Edge Plot (3MHz QPSK – RB Size 15 – High Channel)

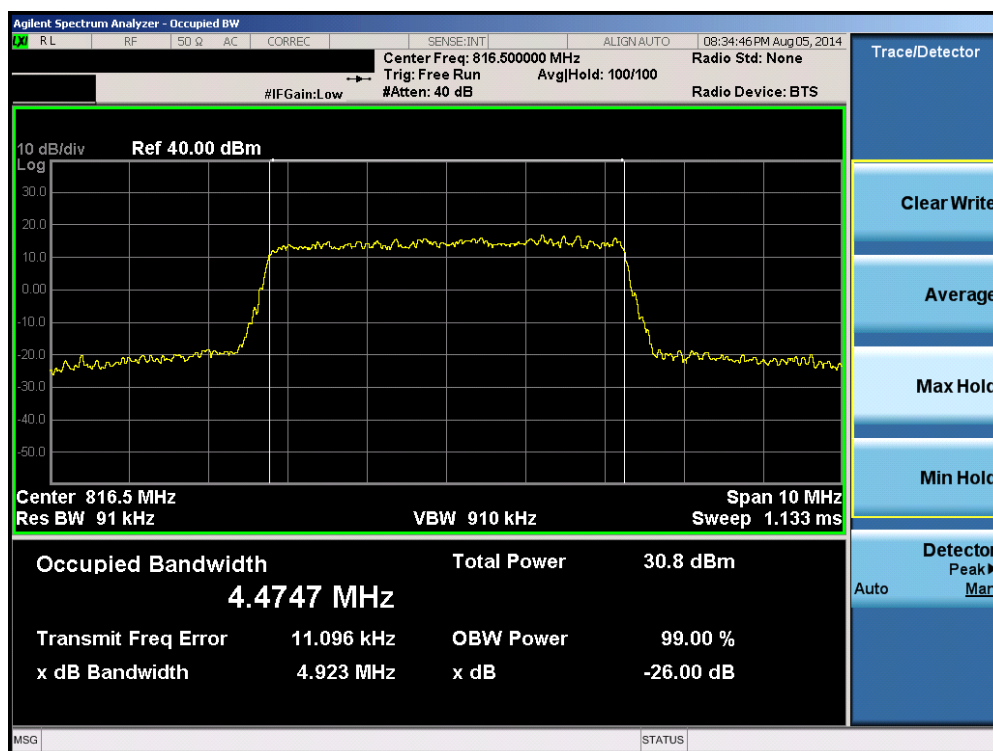


Plot 8-13. Channel Edge Plot (5MHz QPSK – RB Size 25– Low Channel)

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 34 of 38

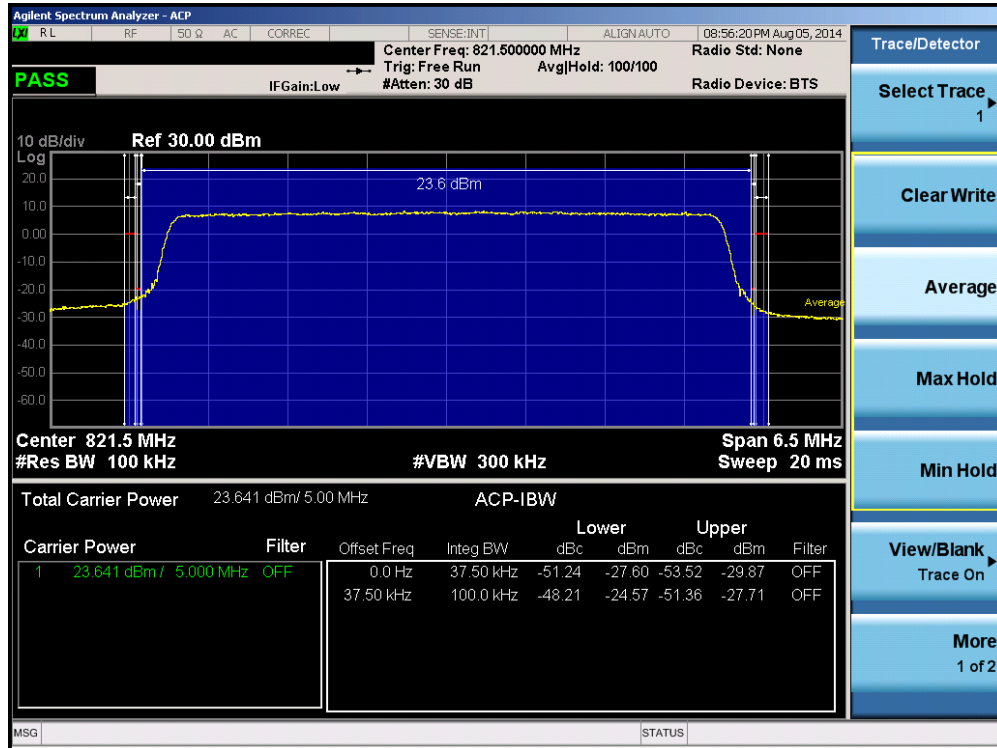


Plot 8-14. Occupied Bandwidth Plot (5MHz QPSK – RB Size 25– Low Channel)

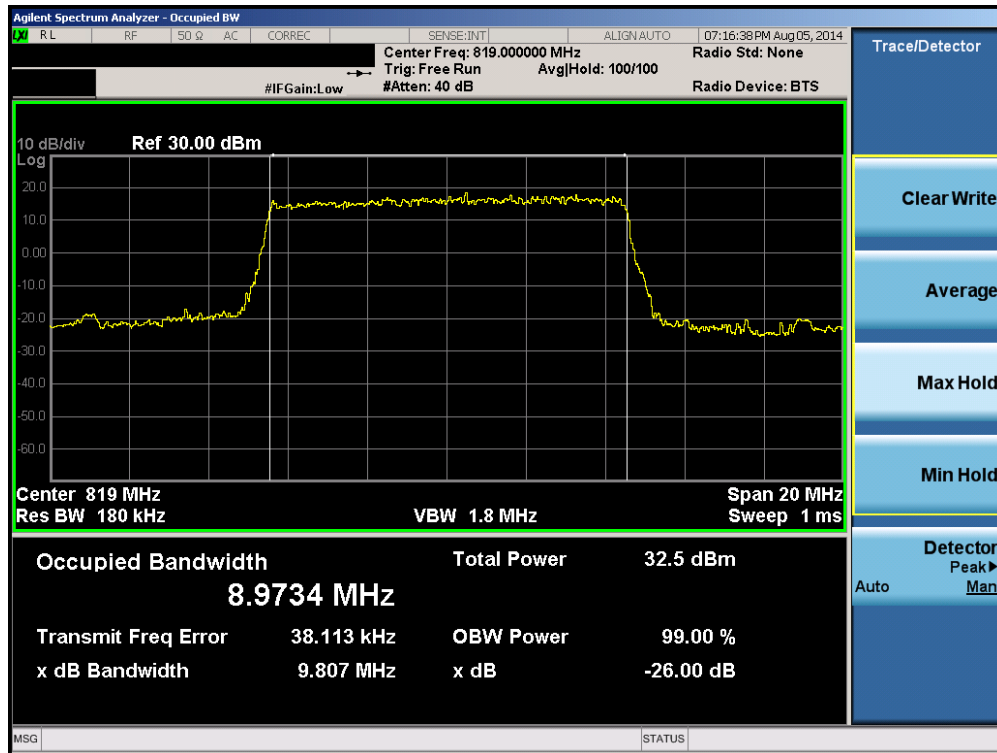


Plot 8-15. Occupied Bandwidth Plot (5MHz 16-QAM – RB Size 25– Low Channel))

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 35 of 38

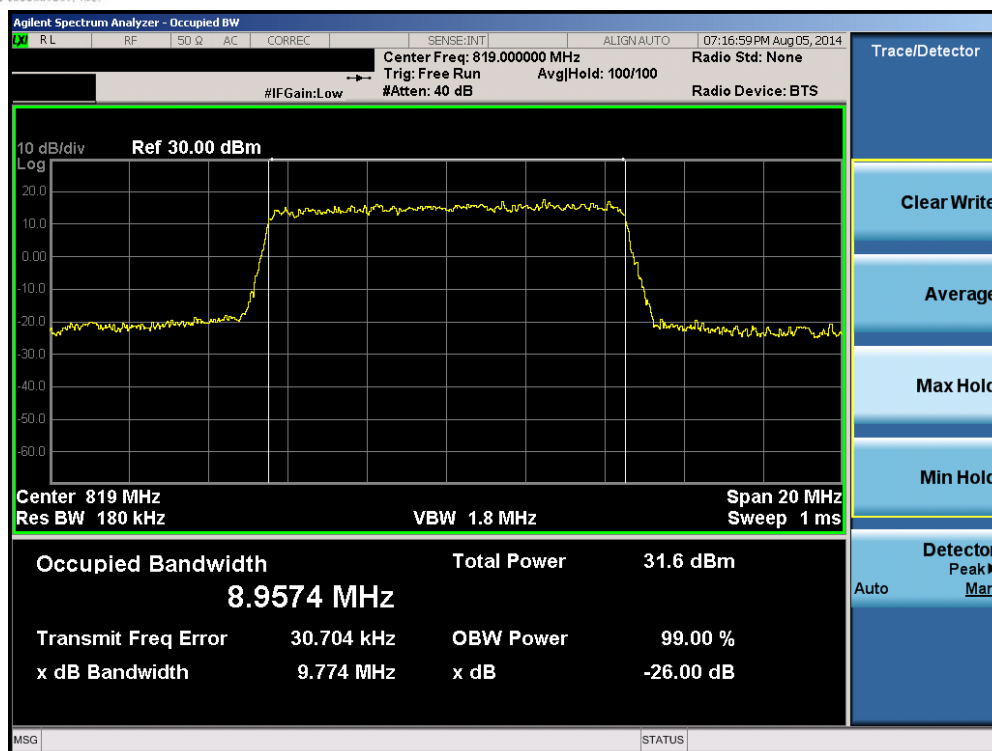


Plot 8-16. Channel Edge Plot (5MHz QPSK – RB Size 25 – High Channel)

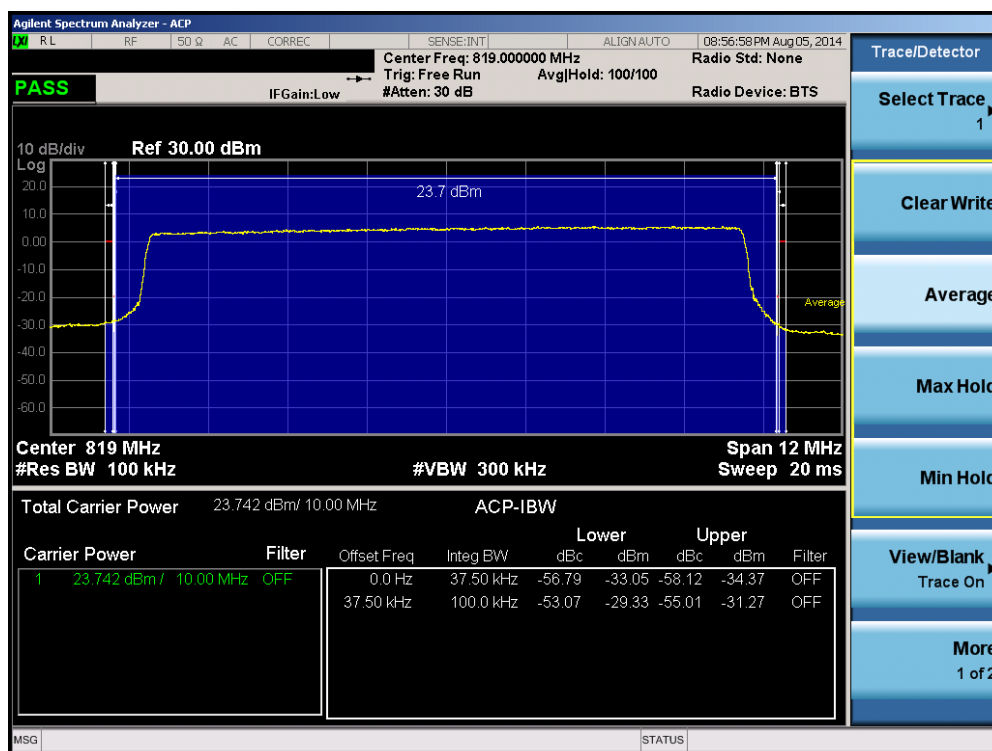


Plot 8-17. Occupied Bandwidth Plot (10MHz QPSK – RB Size 50)

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 36 of 38



Plot 8-18. Occupied Bandwidth Plot (10MHz 16-QAM – RB Size 50)



Plot 8-19. Channel Edge Plot (10MHz QPSK – RB Size 50)

FCC ID: A3LSMN910P	PCTEST ENGINEERING LABORATORY, INC.	Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 37 of 38

9.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMN910P** complies with all the requirements of Parts 90 of the FCC rules.

FCC ID: A3LSMN910P		Part 90 CDMA / EvDO / LTE MEASUREMENT REPORT CERTIFICATION		Reviewed by: Quality Manager
Test Report S/N: 0Y1408011594-R1.A3L	Test Dates: 07/29 - 09/04/14	EUT Type: Portable Handset		Page 38 of 38