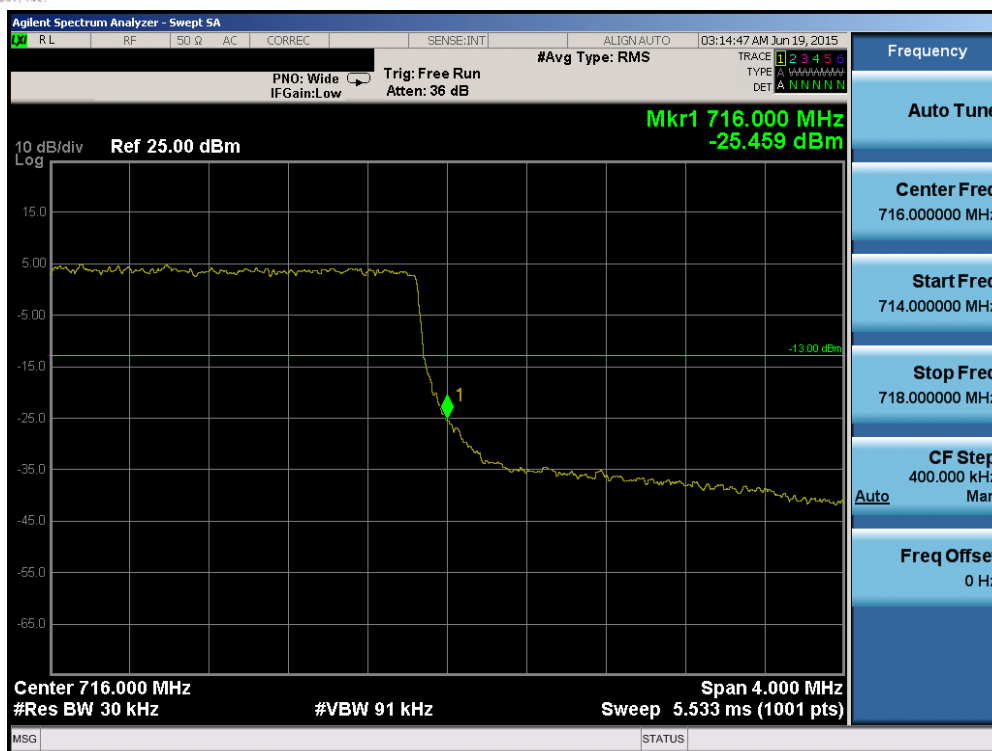
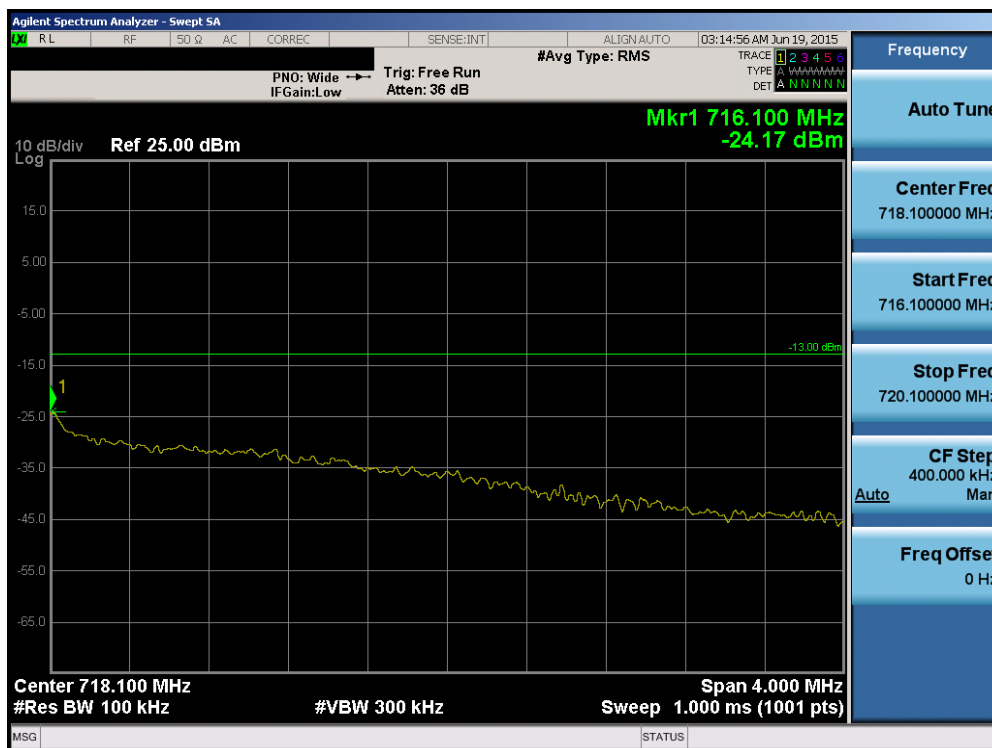


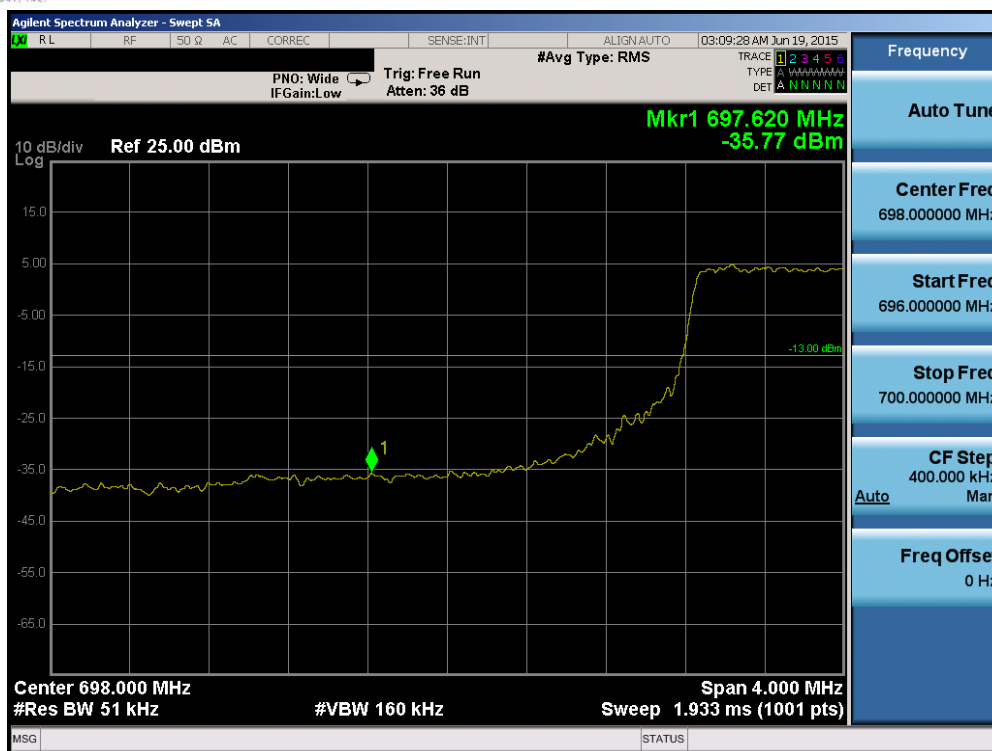


Plot 6-92. Upper Band Edge Plot (Band 12 – 3.0MHz QPSK – RB Size 15)

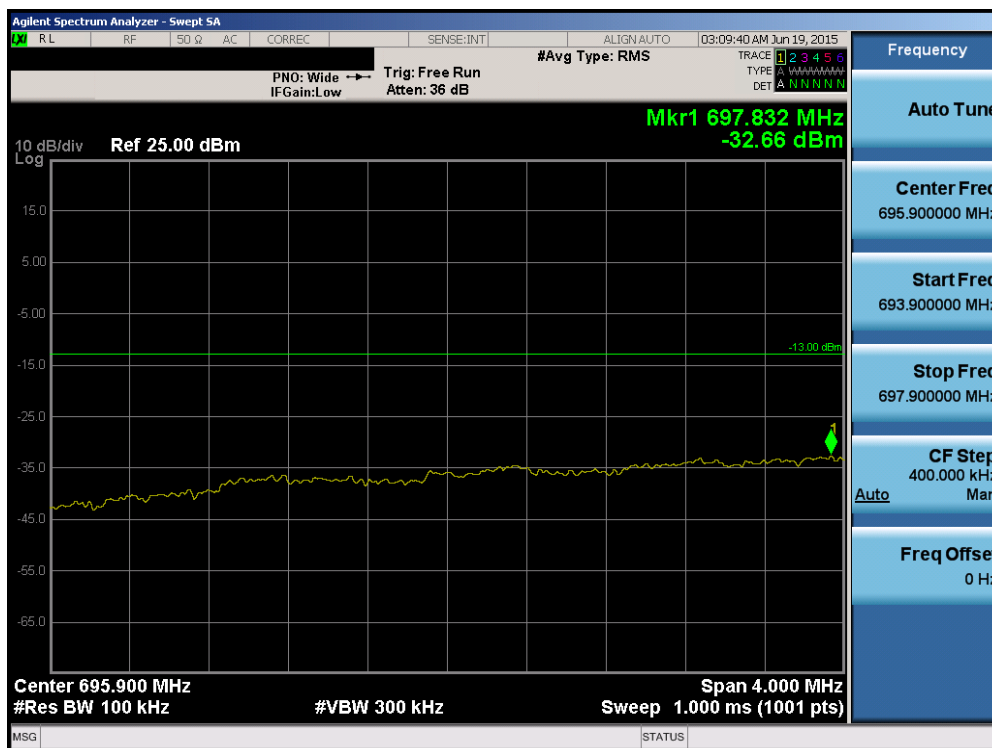


Plot 6-93. Upper Extended Band Edge Plot (Band 12 – 3.0MHz QPSK – RB Size 15)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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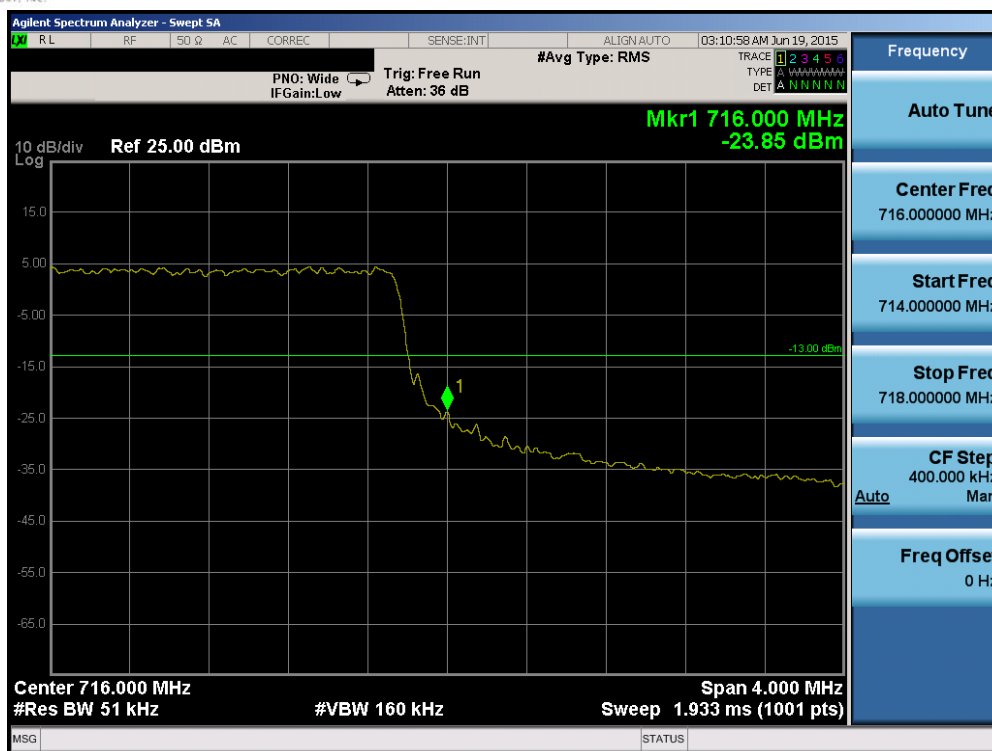


Plot 6-94. Lower Band Edge Plot (Band 12 – 5.0MHz QPSK – RB Size 25)

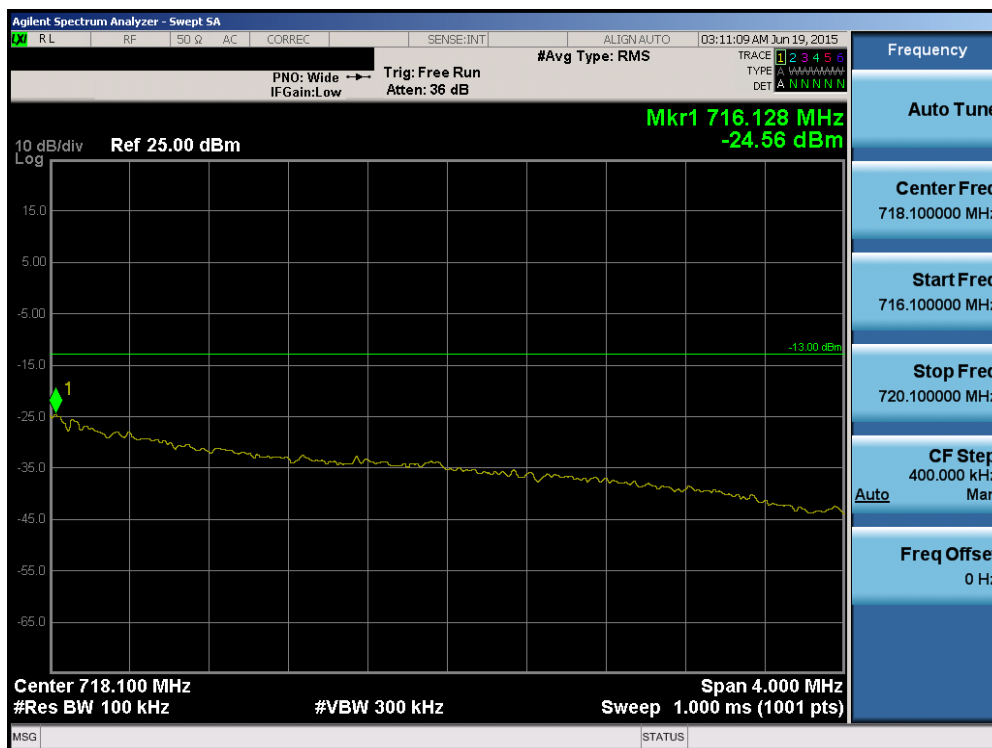


Plot 6-95. Lower Extended Band Edge Plot (Band 12 – 5.0MHz QPSK – RB Size 25)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 62 of 128

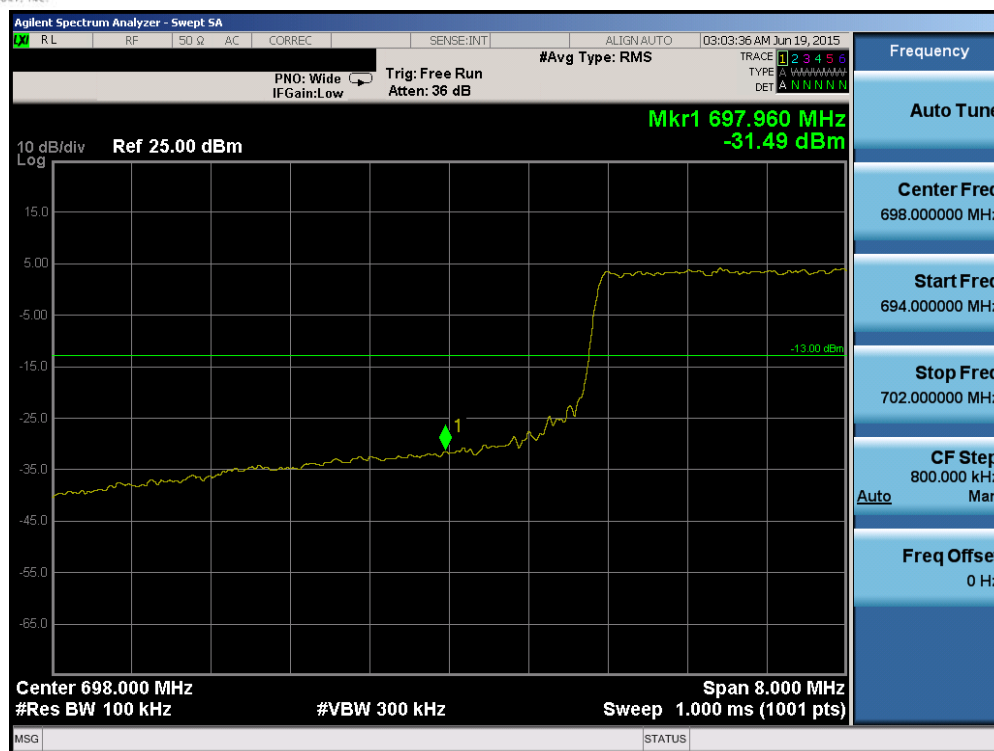


Plot 6-96. Upper Band Edge Plot (Band 12 – 5.0MHz QPSK – RB Size 25)

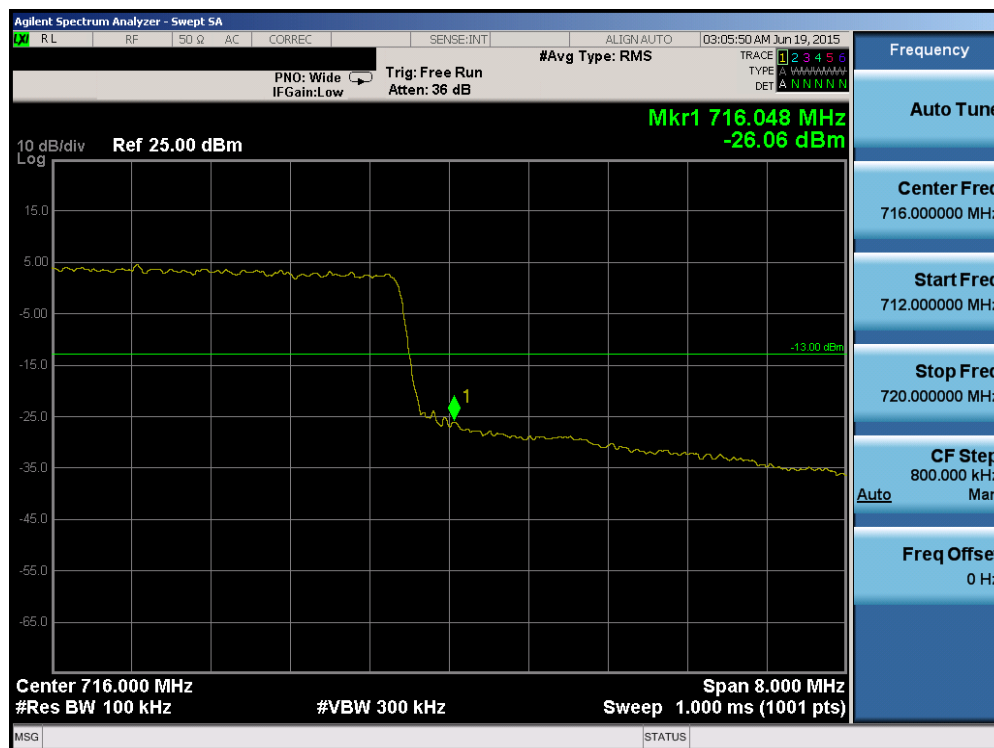


Plot 6-97. Upper Extended Band Edge Plot (Band 12 – 5.0MHz QPSK – RB Size 25)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 63 of 128

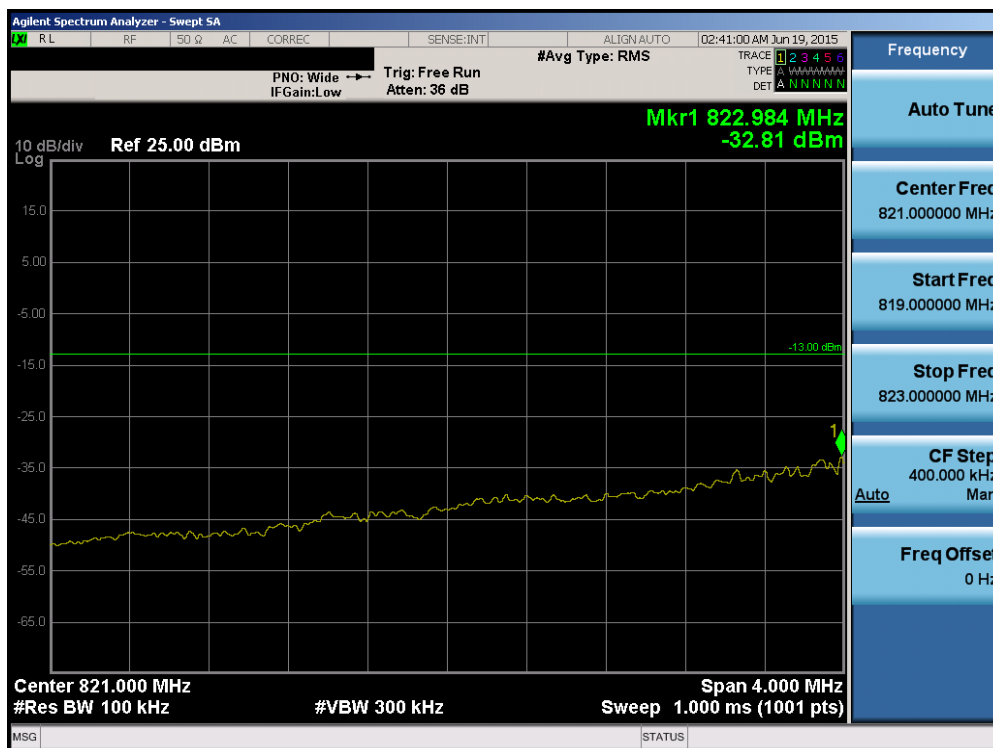
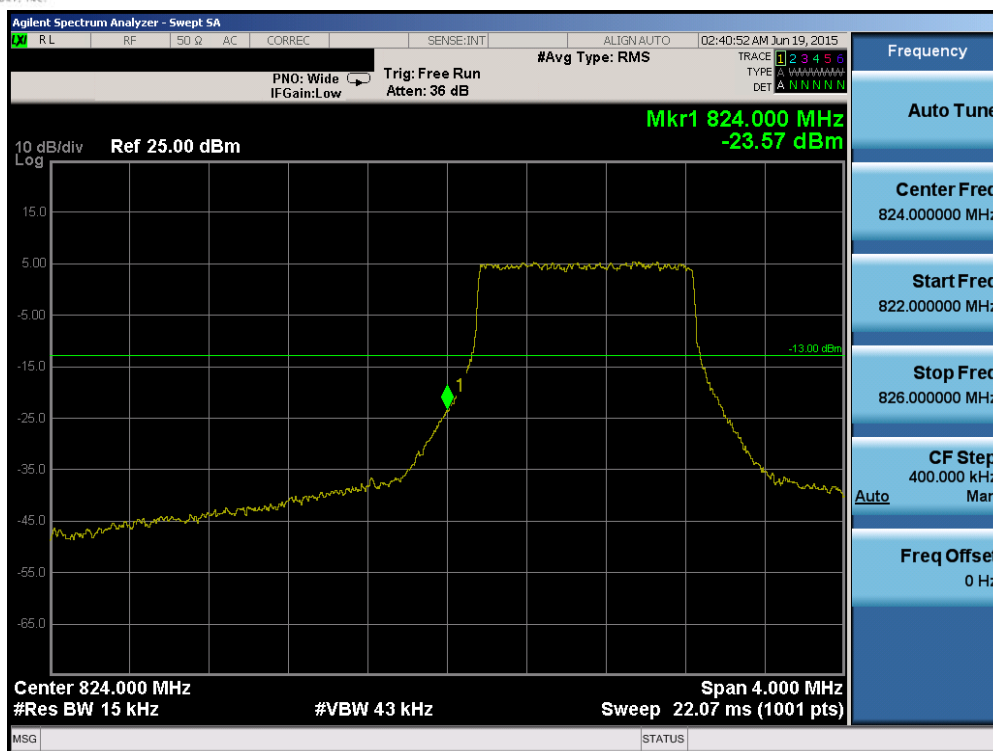


Plot 6-98. Lower Band Edge Plot (Band 12 – 10.0MHz QPSK – RB Size 50)

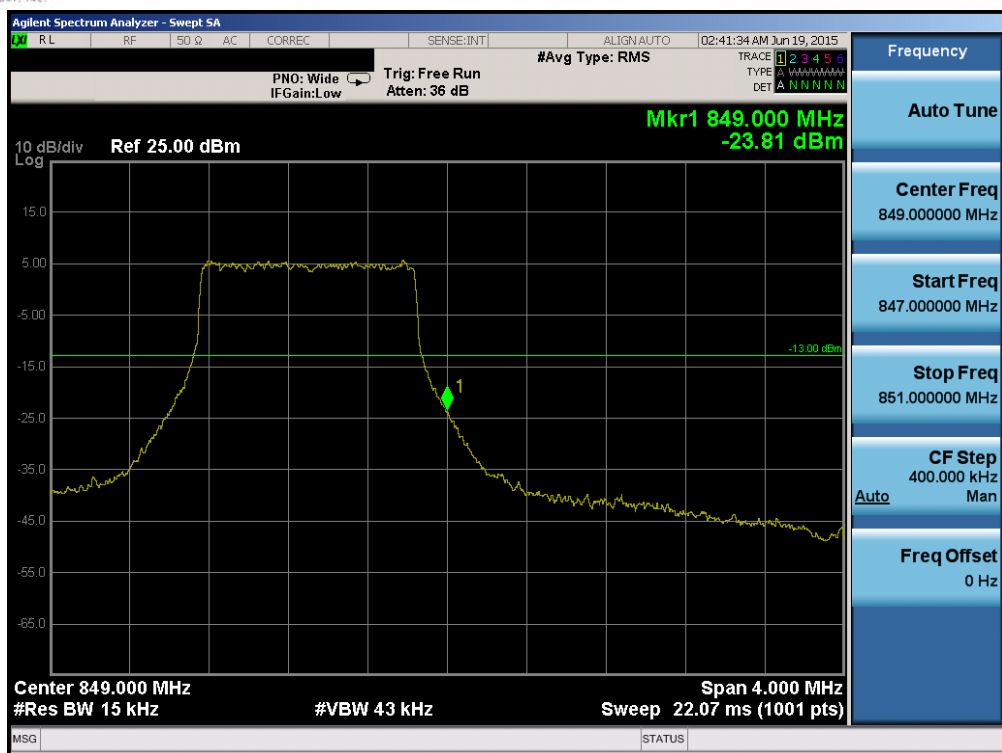


Plot 6-99. Upper Band Edge Plot (Band 12 – 10.0MHz QPSK – RB Size 50)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 64 of 128



FCC ID: A3LSMG928T	 FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset	Page 65 of 128

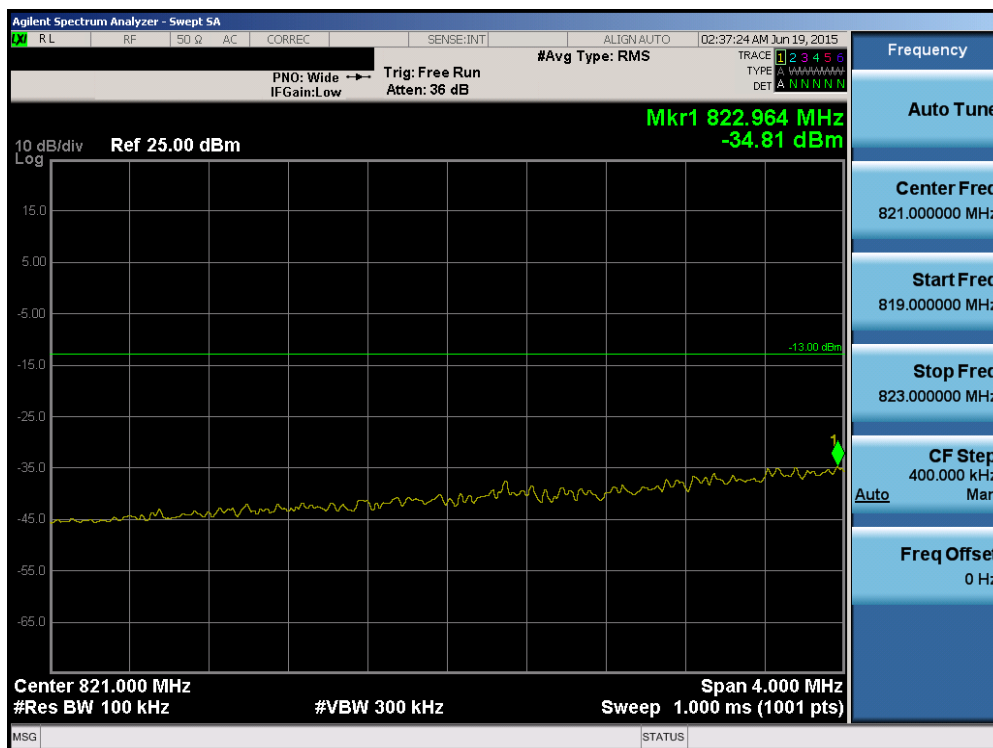
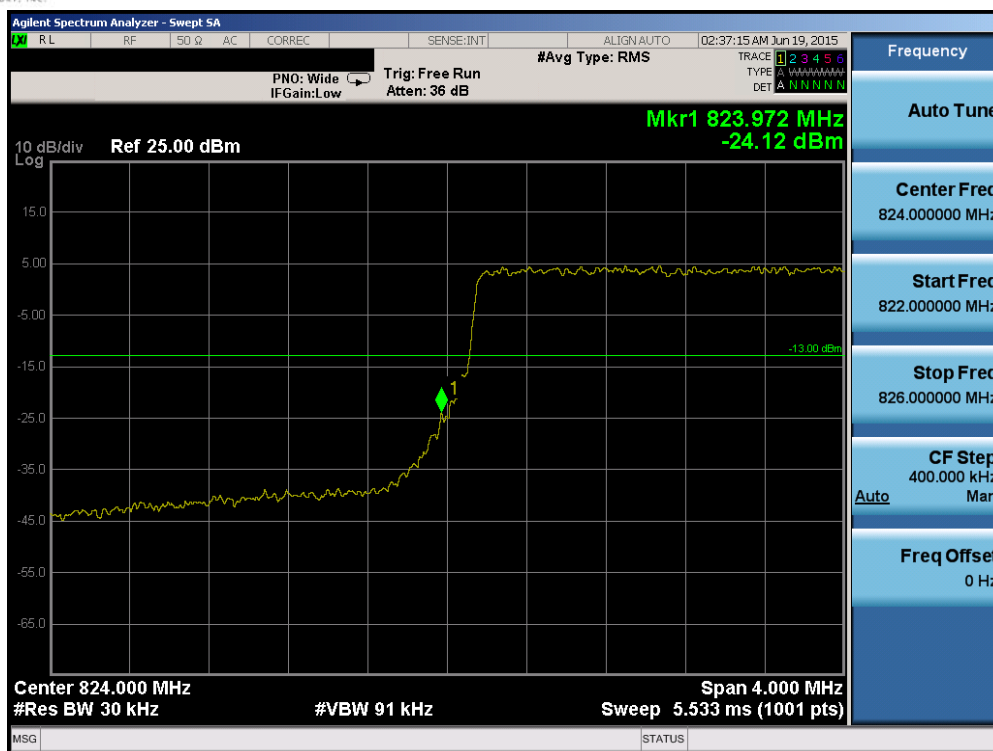


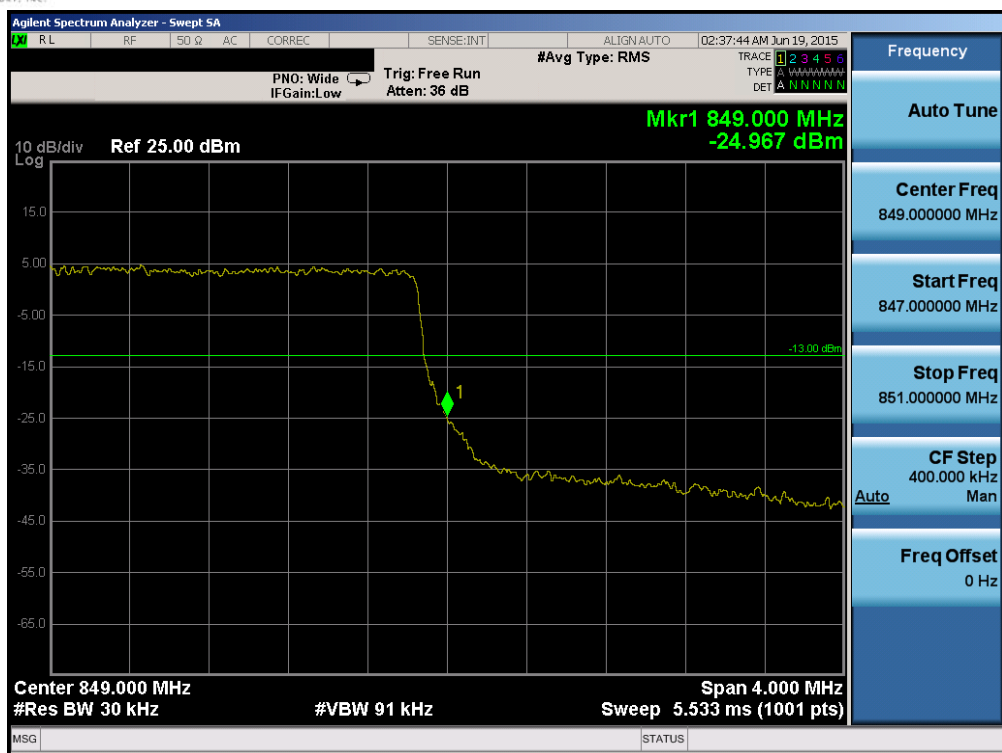
Plot 6-102. Upper Band Edge Plot (Band 5 – 1.4MHz QPSK – RB Size 6)



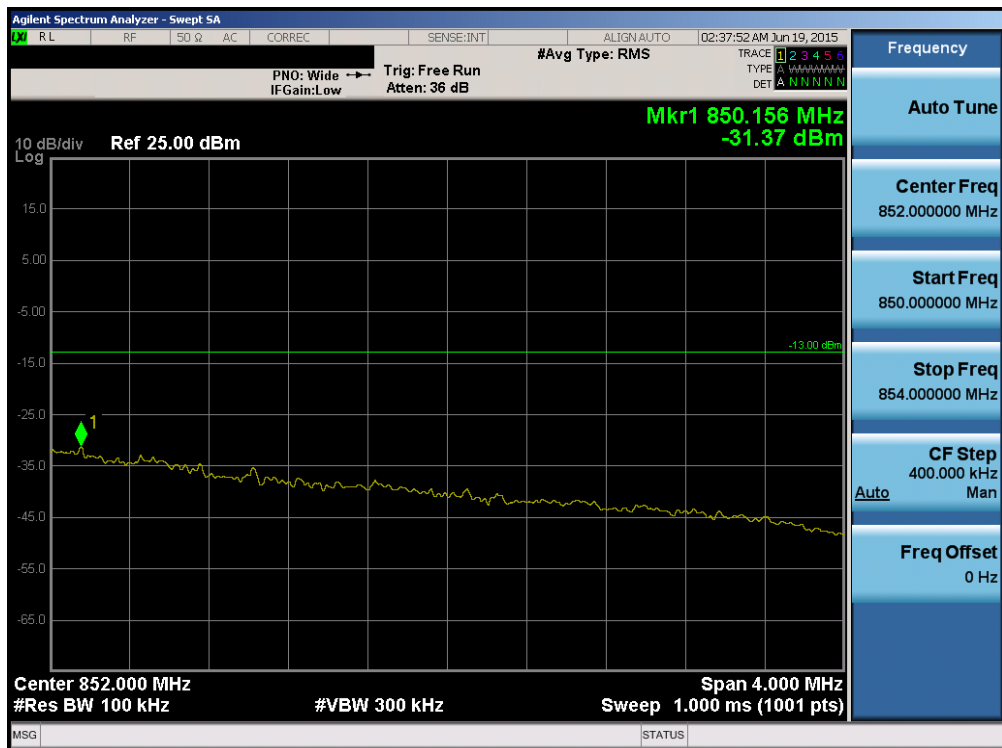
Plot 6-103. Upper Extended Band Edge Plot (Band 5 – 1.4MHz QPSK – RB Size 6)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 66 of 128



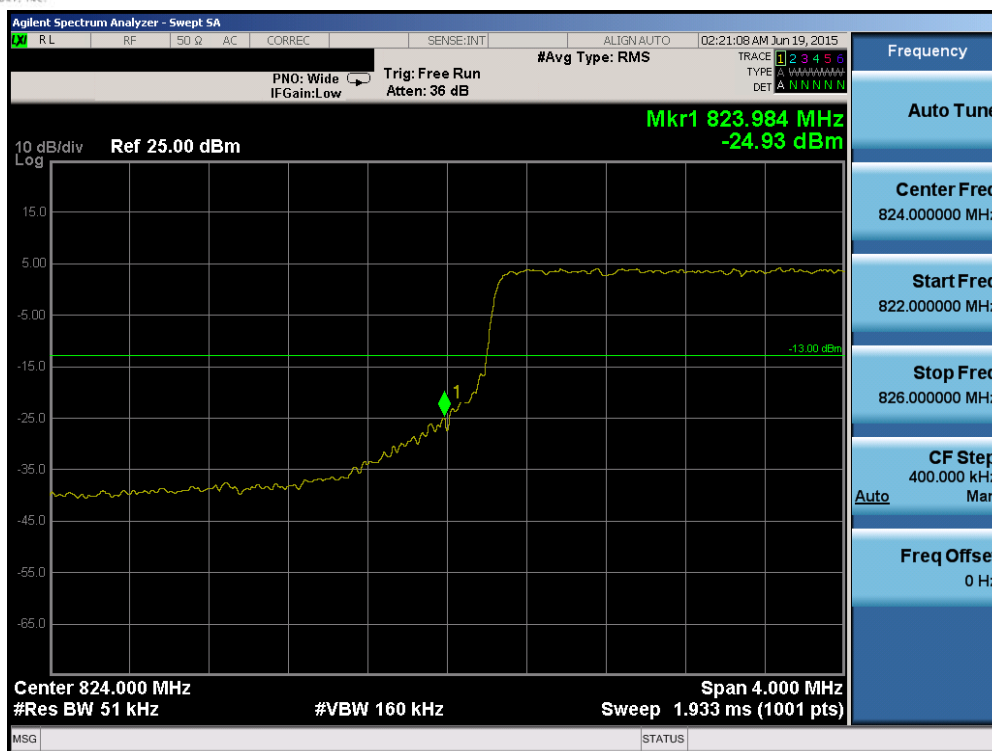


Plot 6-106. Upper Band Edge Plot (Band 5 - 3.0MHz QPSK - RB Size 15)

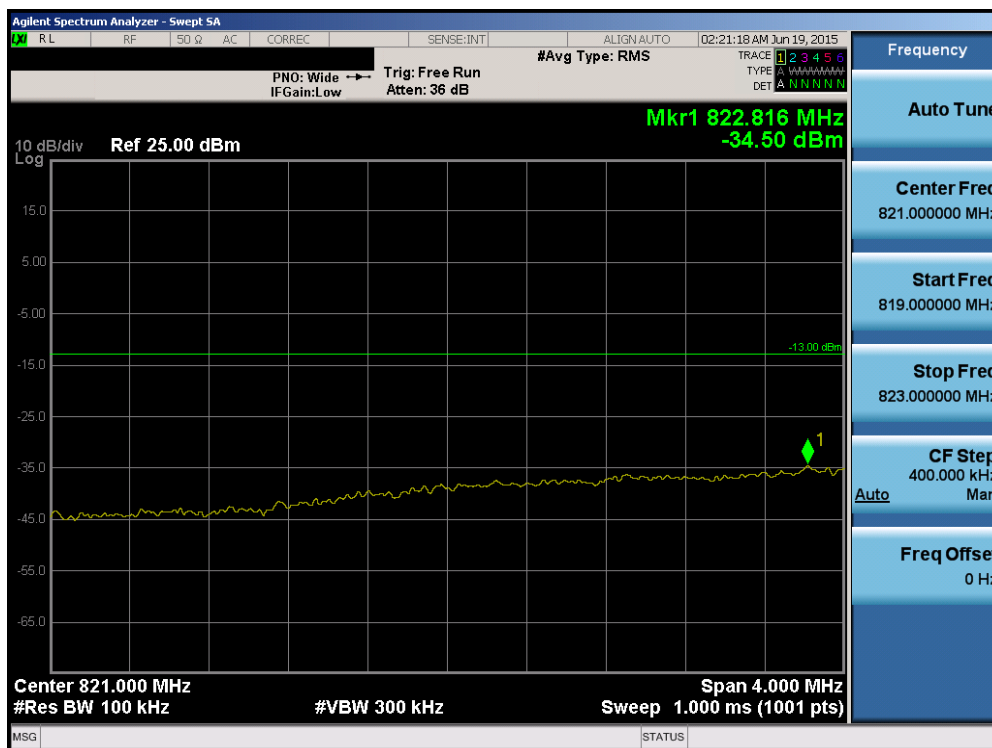


Plot 6-107. Upper Extended Band Edge Plot (Band 5 - Band 5 - 3.0MHz QPSK - RB Size 15)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 68 of 128

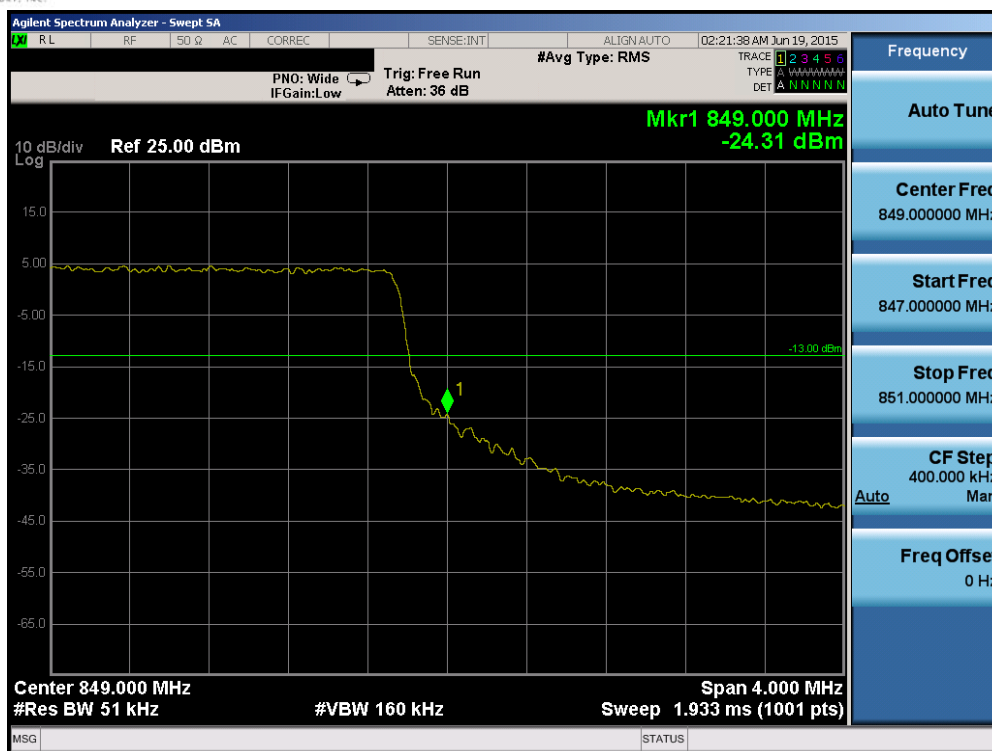


Plot 6-108. Lower Band Edge Plot (Band 5 – 5.0MHz QPSK – RB Size 25)

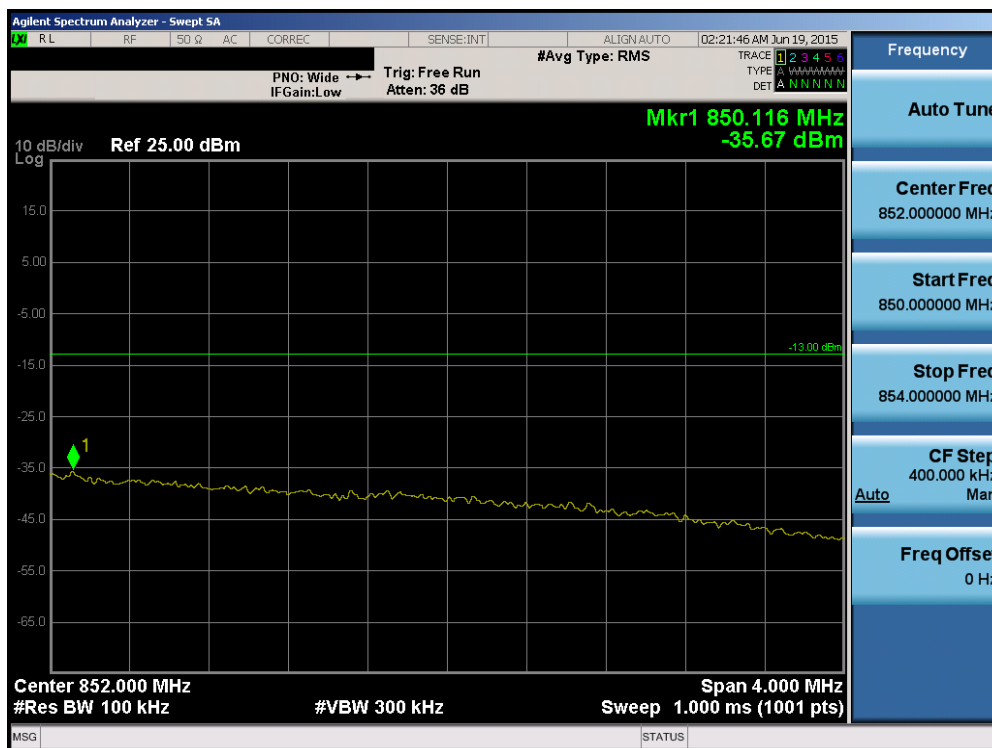


Plot 6-109. Lower Extended Band Edge Plot (Band 5 – 5.0MHz QPSK – RB Size 25)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 69 of 128

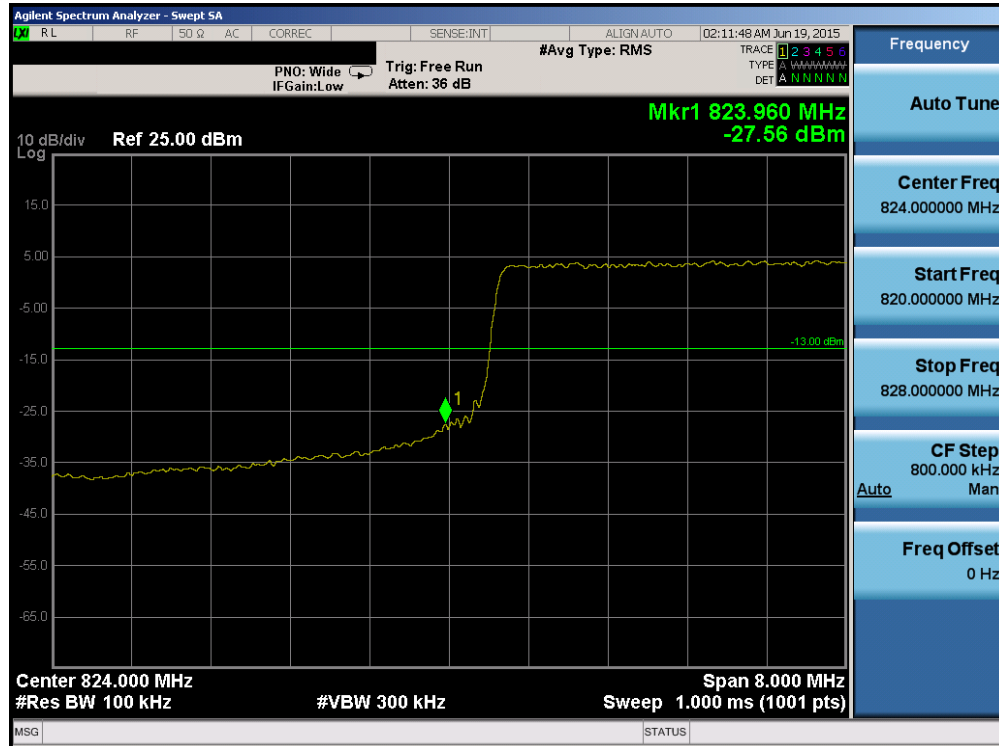


Plot 6-110. Upper Band Edge Plot (Band 5 – 5.0MHz QPSK – RB Size 25)



Plot 6-111. Upper Extended Band Edge Plot (Band 5 – 5.0MHz QPSK – RB Size 25)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 70 of 128



Plot 6-112. Lower Band Edge Plot (Band 5 – 10.0MHz QPSK – RB Size 50)

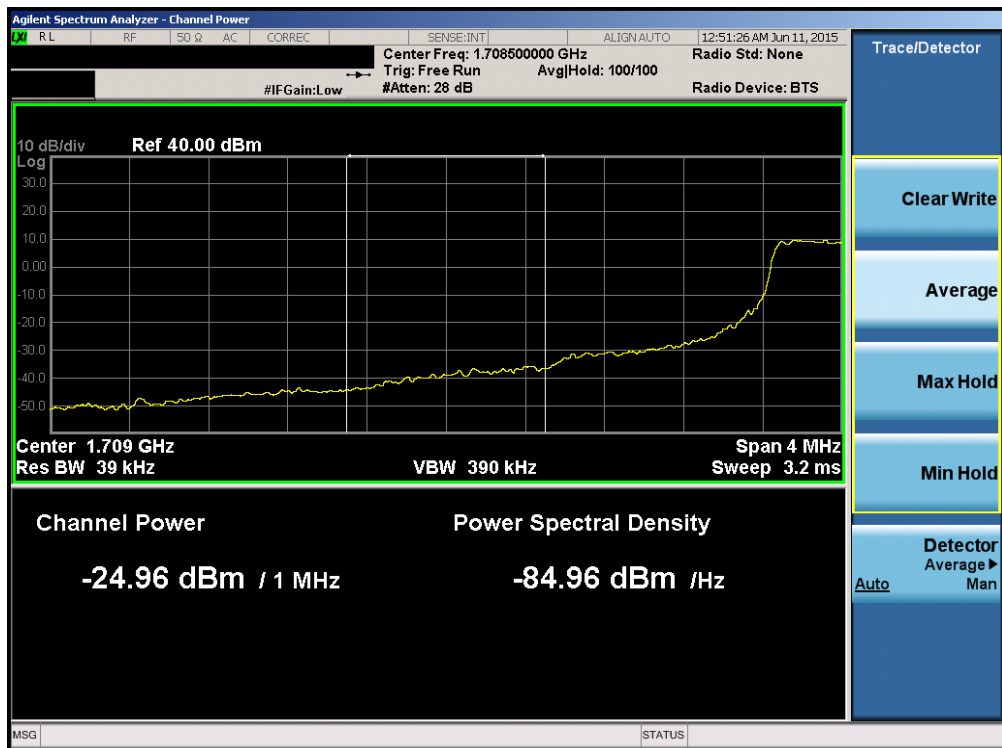


Plot 6-113. Upper Band Edge Plot (Band 5 – 10.0MHz QPSK – RB Size 50)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 71 of 128



Plot 6-114. Lower Band Edge Plot (Band 4 – 1.4MHz QPSK – RB Size 6)

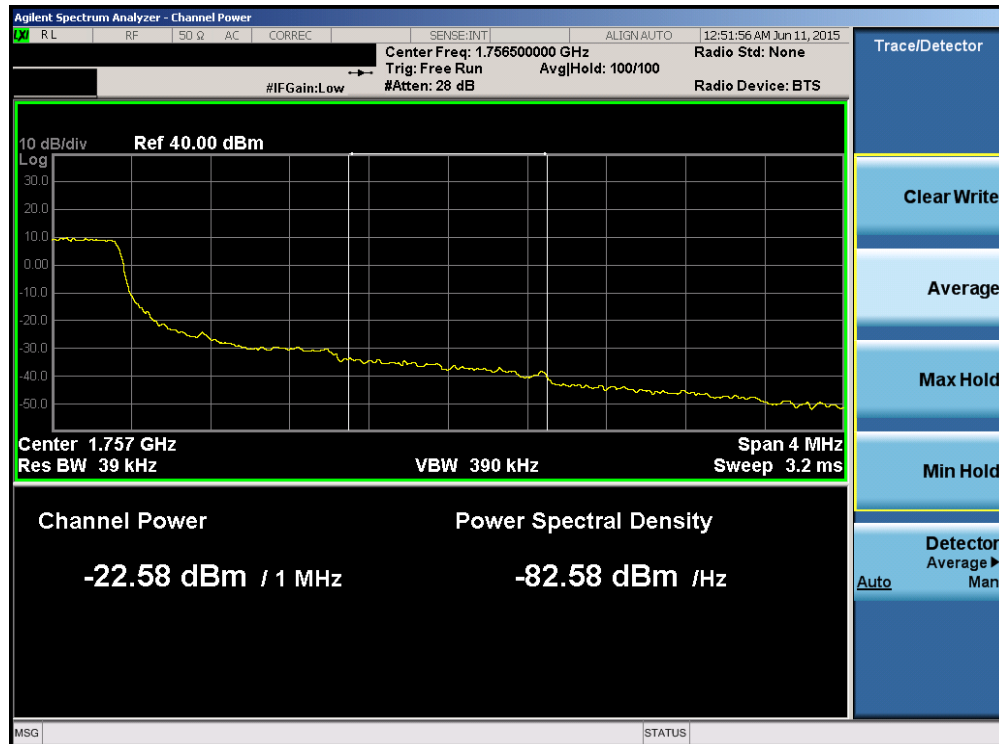


Plot 6-115. Lower Extended Band Edge Plot (Band 4 – 1.4MHz QPSK – RB Size 6)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 72 of 128

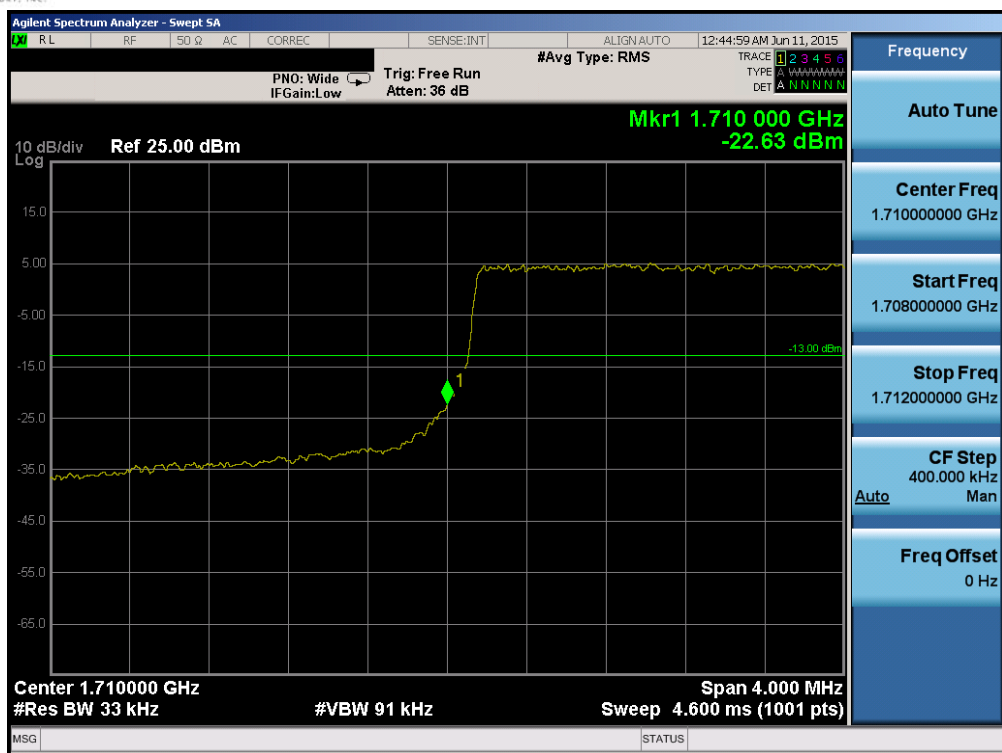


Plot 6-116. Upper Band Edge Plot (Band 4 – 1.4MHz QPSK – RB Size 6)

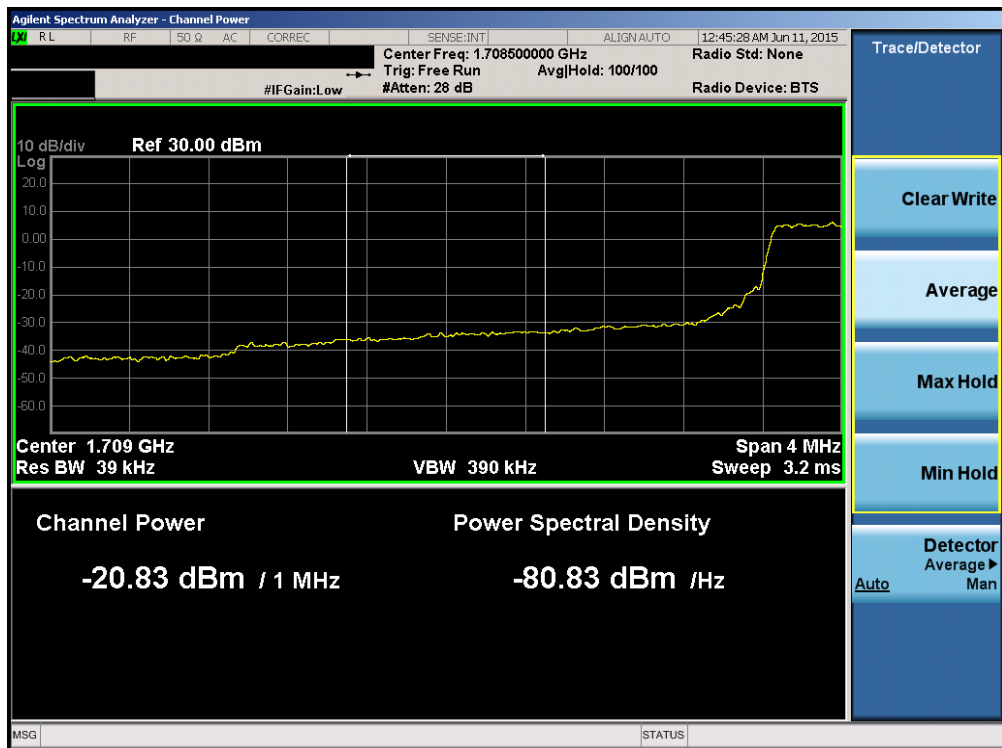


Plot 6-117. Upper Extended Band Edge Plot (Band 4 – 1.4MHz QPSK – RB Size 6)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 73 of 128

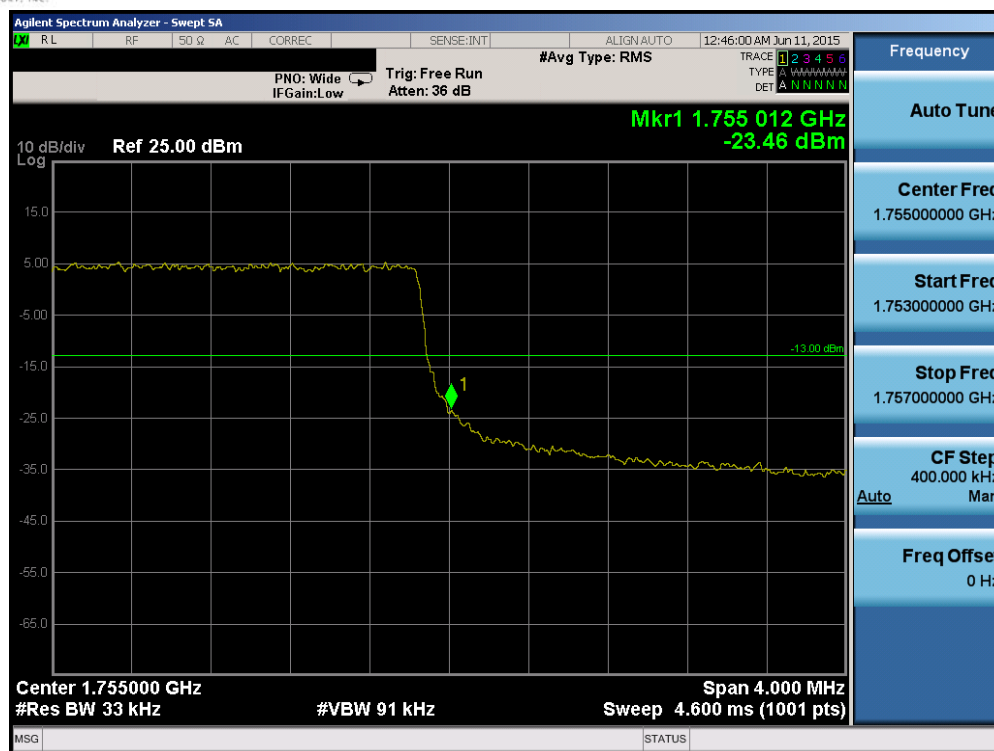


Plot 6-118. Lower Band Edge Plot (Band 4 – 3.0MHz QPSK – RB Size 15)

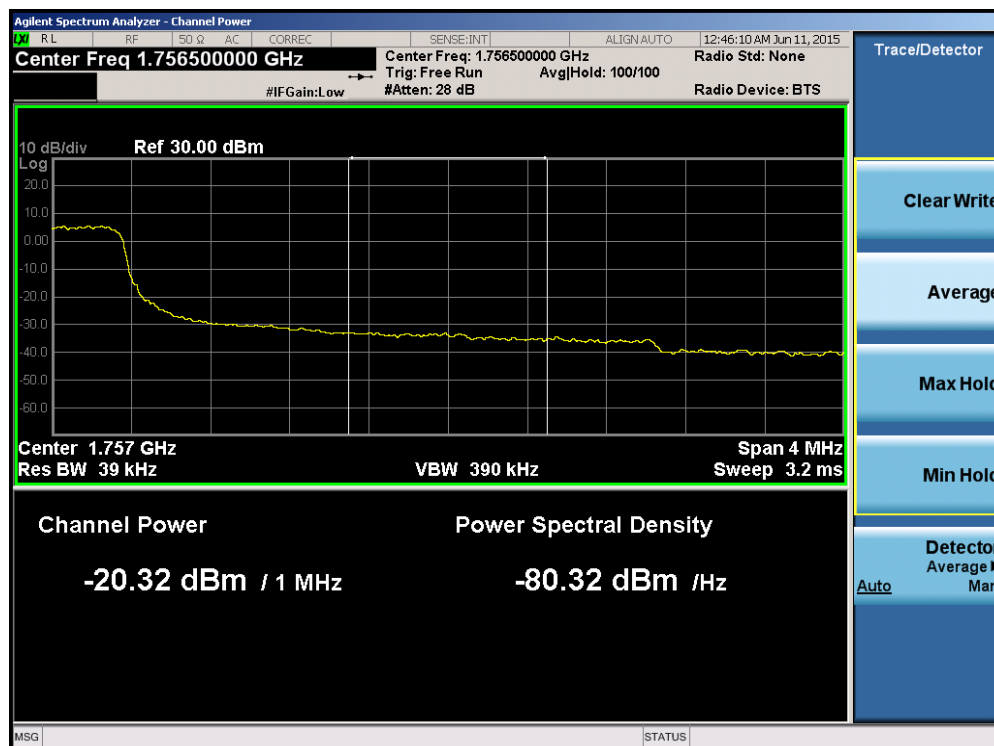


Plot 6-119. Lower Extended Band Edge Plot (Band 4 – 3.0MHz QPSK – RB Size 15)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 74 of 128

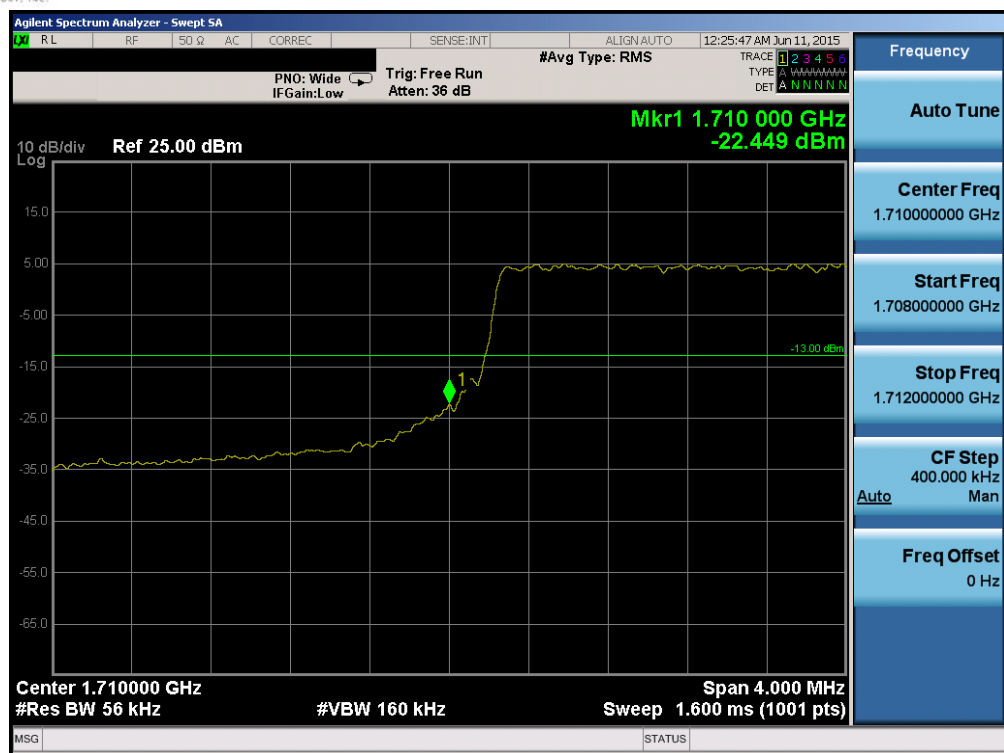


Plot 6-120. Upper Band Edge Plot (Band 4 – 3.0MHz QPSK – RB Size 15)

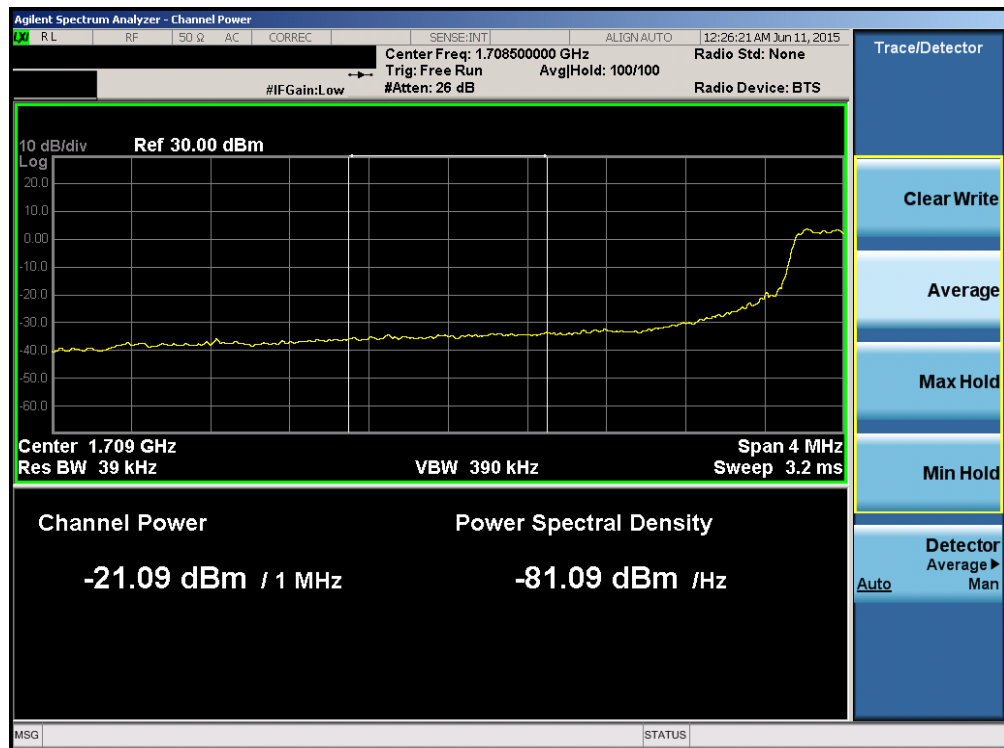


Plot 6-121. Upper Extended Band Edge Plot (Band 4 – 3.0MHz QPSK – RB Size 15)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 75 of 128

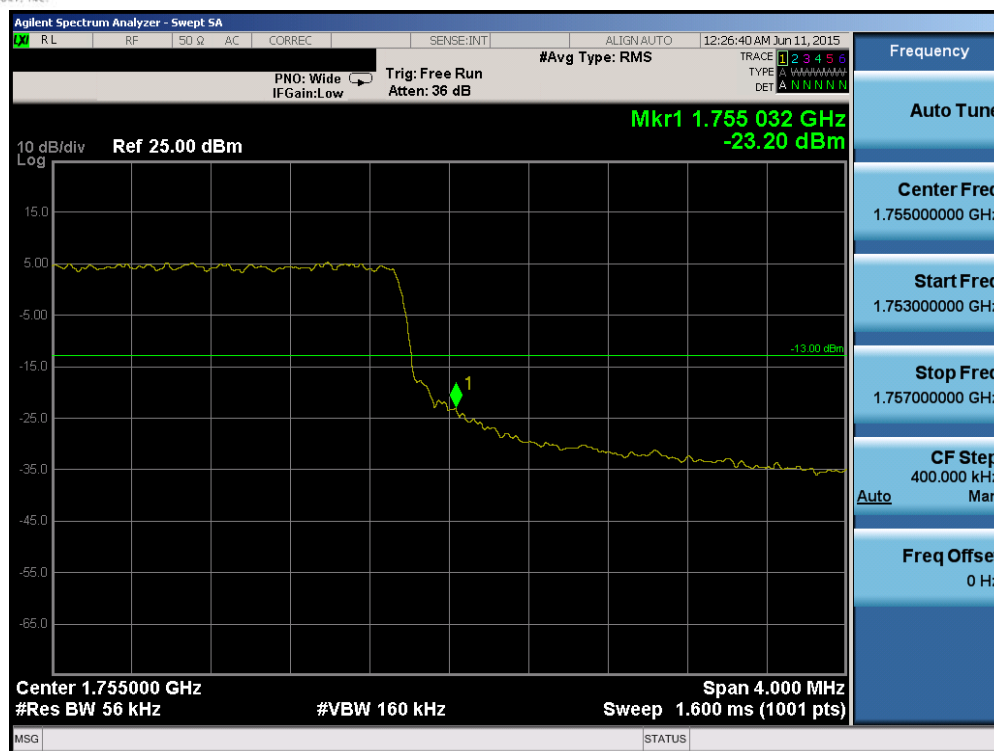


Plot 6-122. Lower Band Edge Plot (Band 4 – 5.0MHz QPSK – RB Size 25)

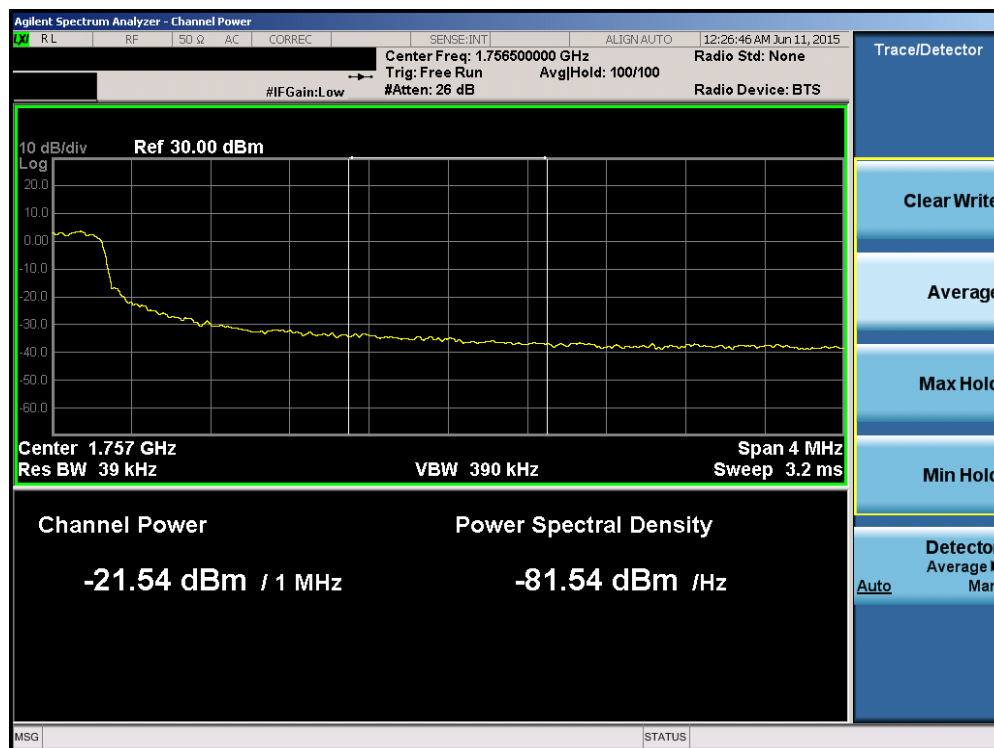


Plot 6-123. Lower Extended Band Edge Plot (Band 4 – 5.0MHz QPSK – RB Size 25)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 76 of 128

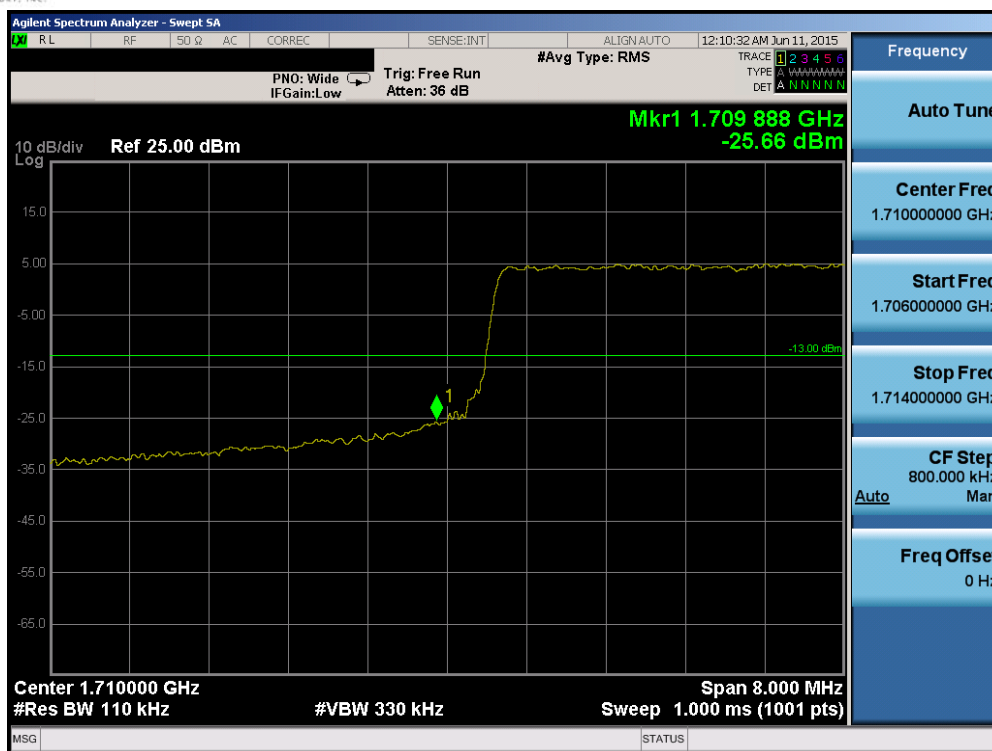


Plot 6-124. Upper Band Edge Plot (Band 4 – 5.0MHz QPSK – RB Size 25)

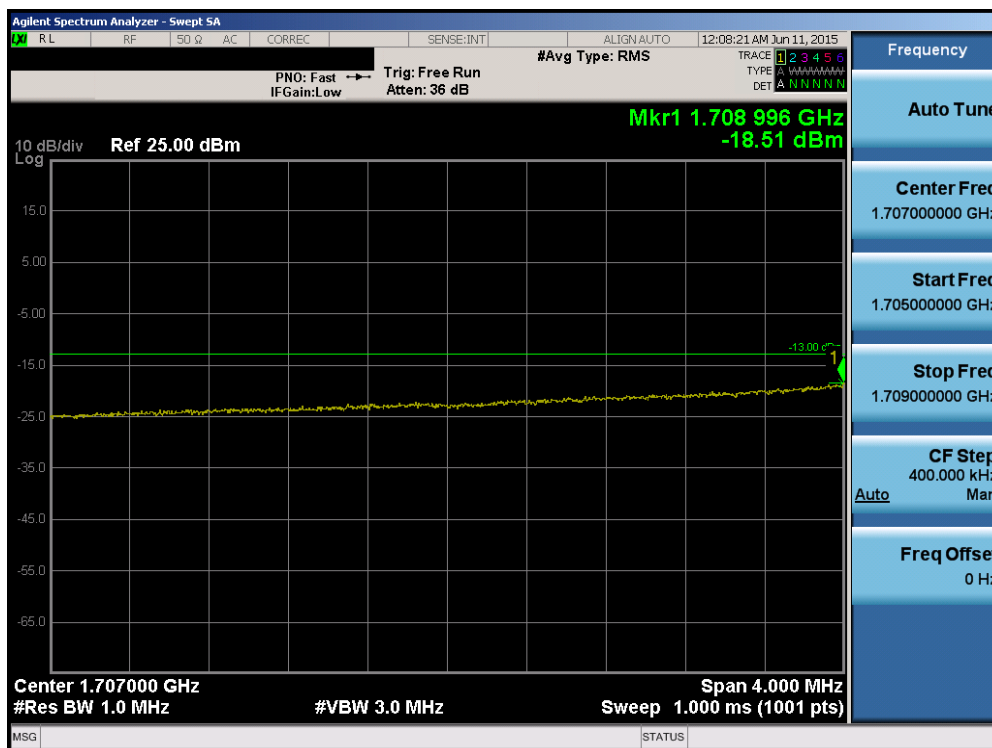


Plot 6-125. Upper Extended Band Edge Plot (Band 4 – 5.0MHz QPSK – RB Size 25)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 77 of 128

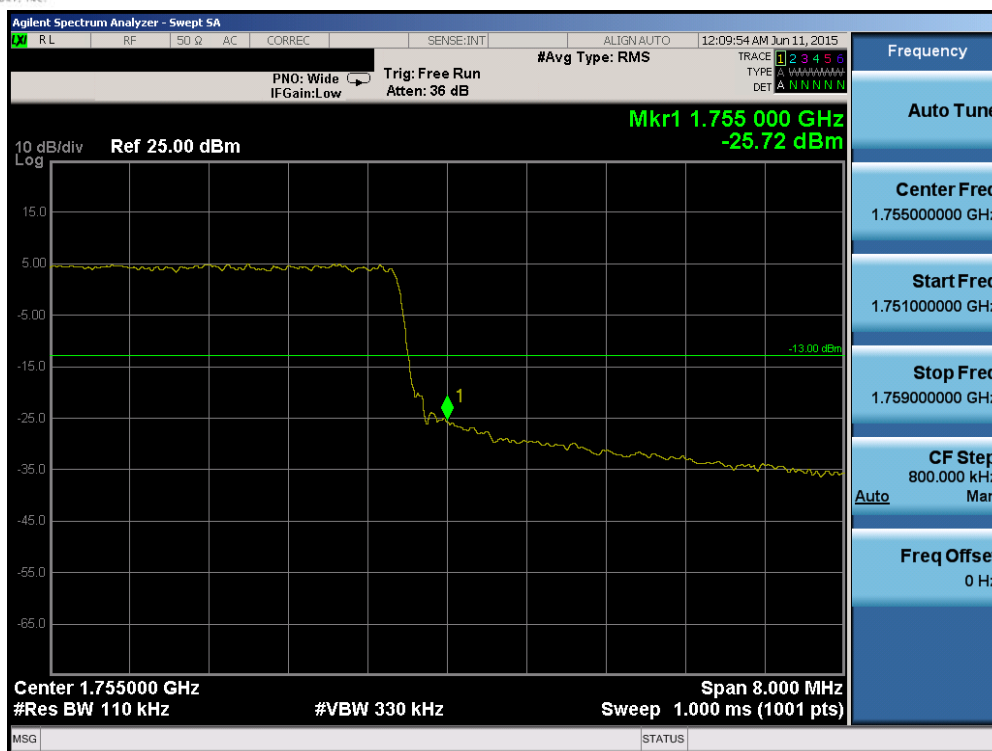


Plot 6-126. Lower Band Edge Plot (Band 4 – 10.0MHz QPSK – RB Size 50)

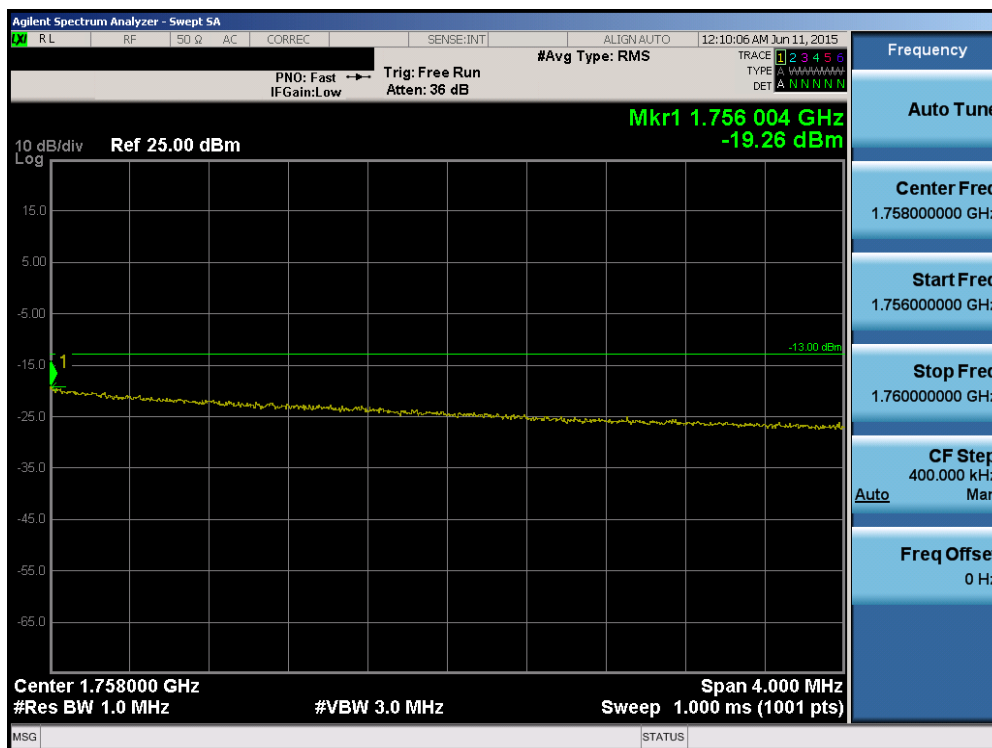


Plot 6-127. Lower Extended Band Edge Plot (Band 4 – 10.0MHz QPSK – RB Size 50)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 78 of 128

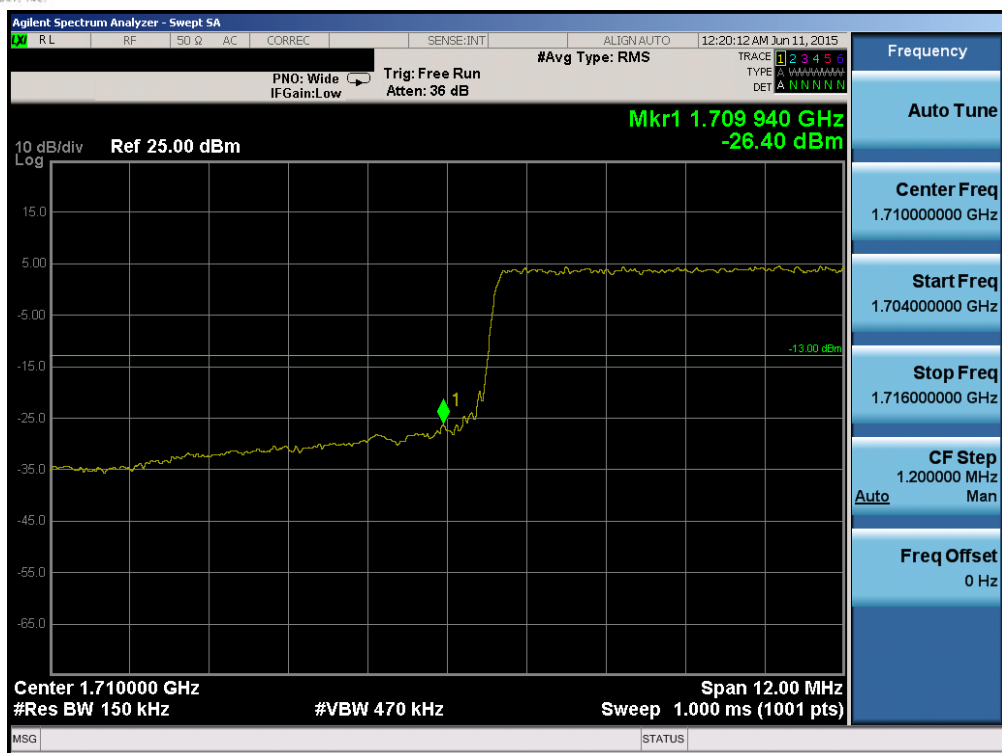


Plot 6-128. Upper Band Edge Plot (Band 4 – 10.0MHz QPSK – RB Size 50)

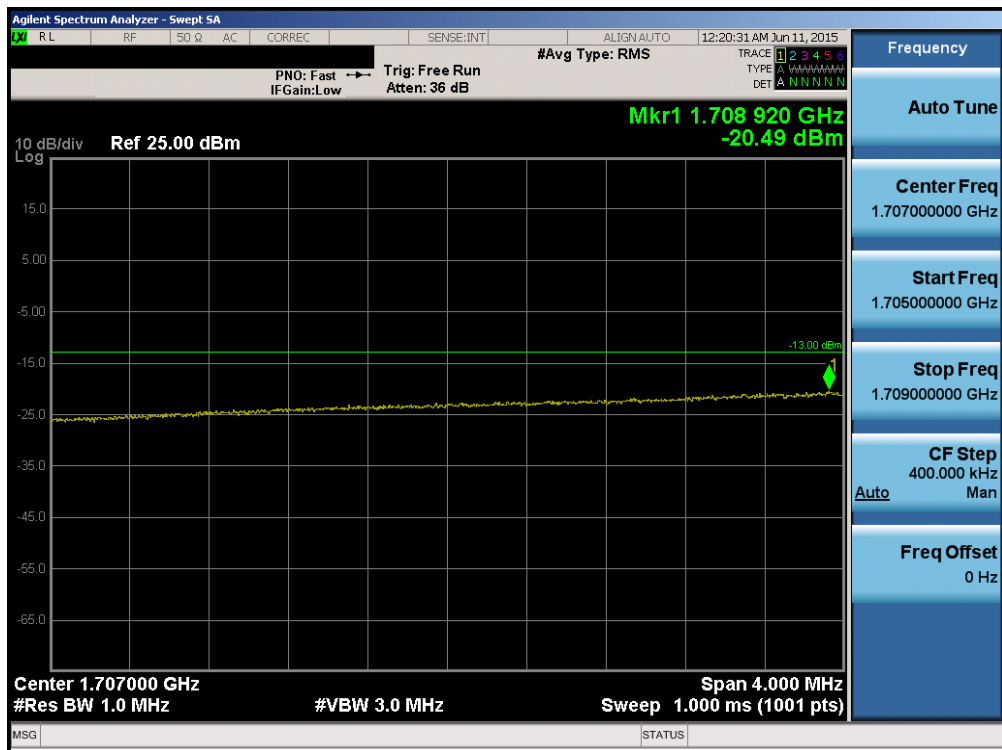


Plot 6-129. Upper Extended Band Edge Plot (Band 4 – 10.0MHz QPSK – RB Size 50)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 79 of 128

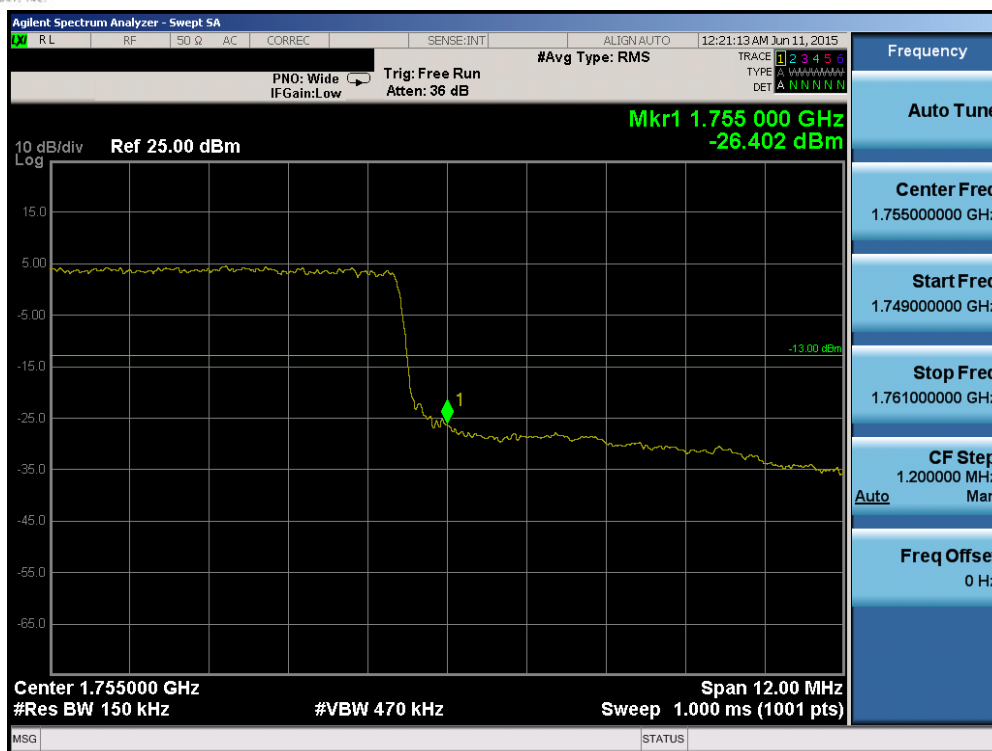


Plot 6-130. Lower Band Edge Plot (Band 4 – 15.0MHz QPSK – RB Size 75)

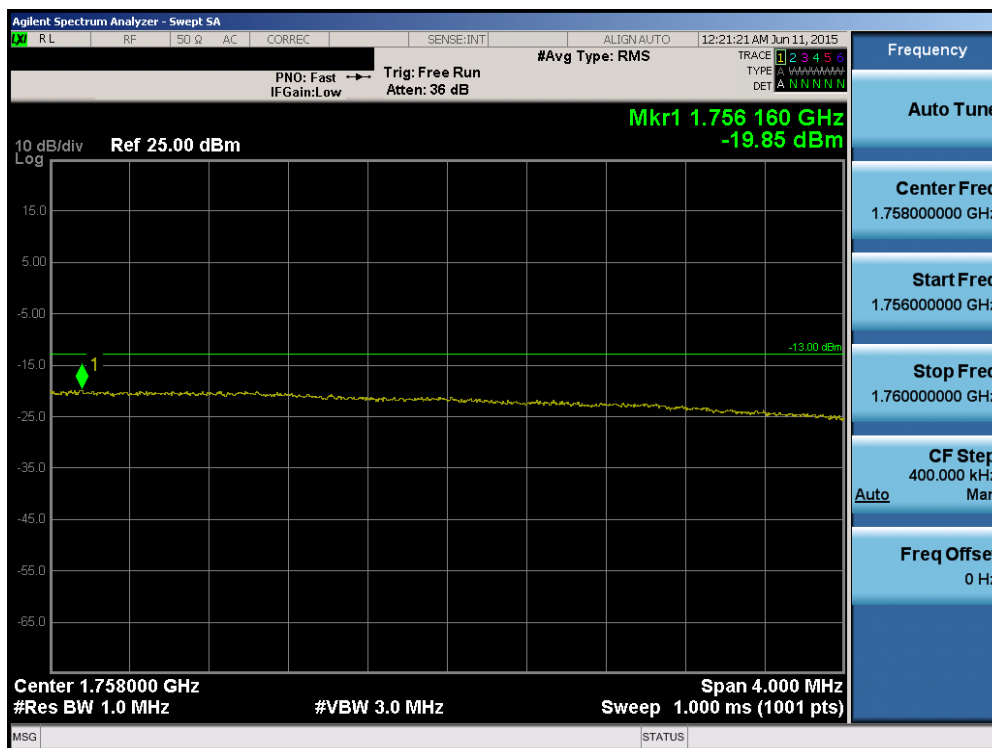


Plot 6-131. Lower Extended Band Edge Plot (Band 4 – 15.0MHz QPSK – RB Size 75)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 80 of 128

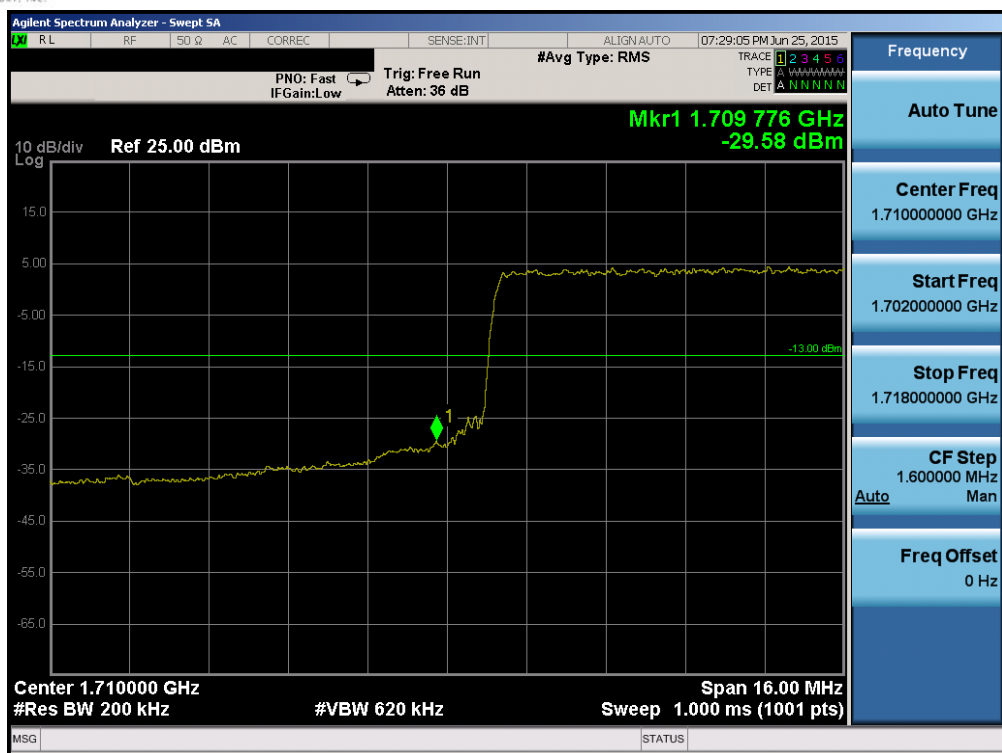


Plot 6-132. Upper Band Edge Plot (Band 4 – 15.0MHz QPSK – RB Size 75)

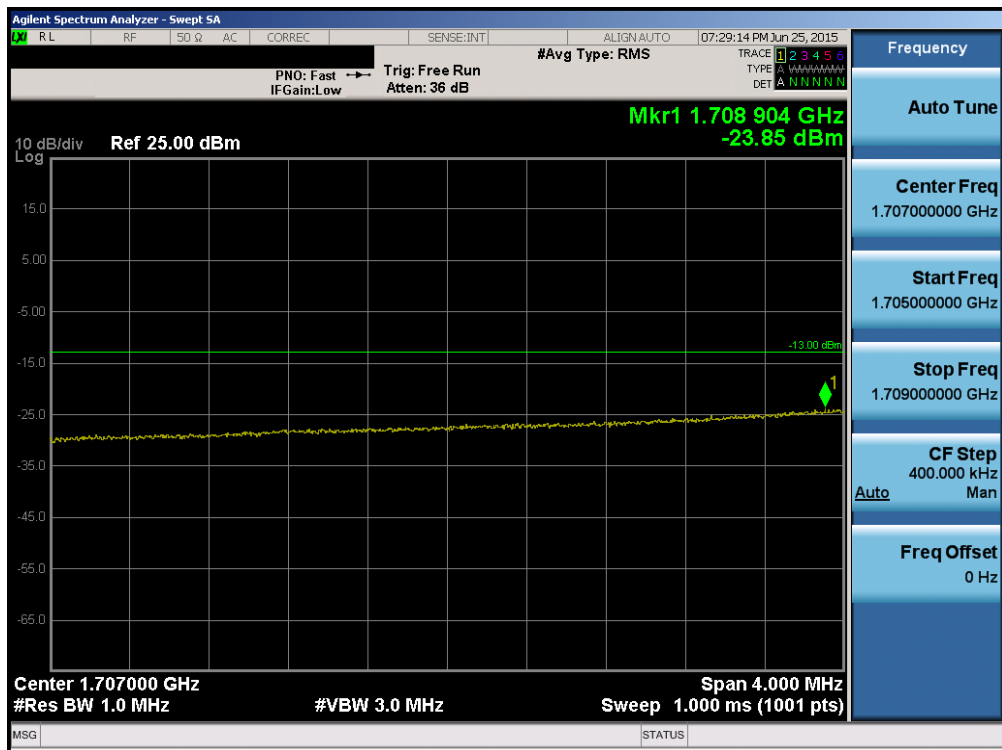


Plot 6-133. Upper Extended Band Edge Plot (Band 4 – 15.0MHz QPSK – RB Size 75)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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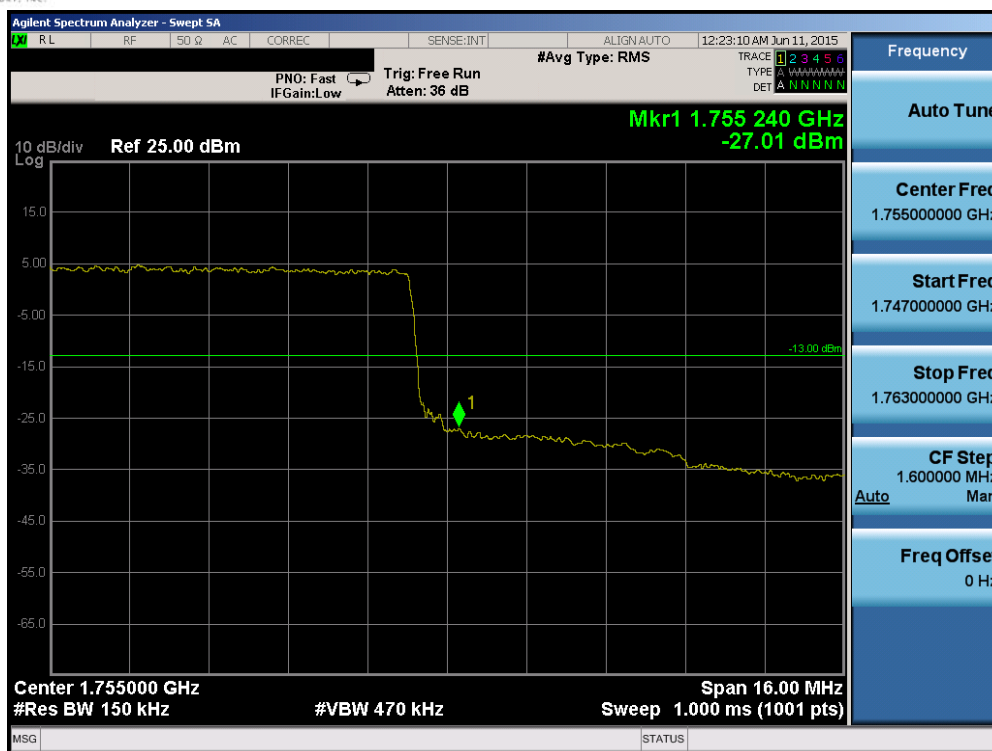


Plot 6-134. Lower Band Edge Plot (Band 4 – 20.0MHz QPSK – RB Size 100)

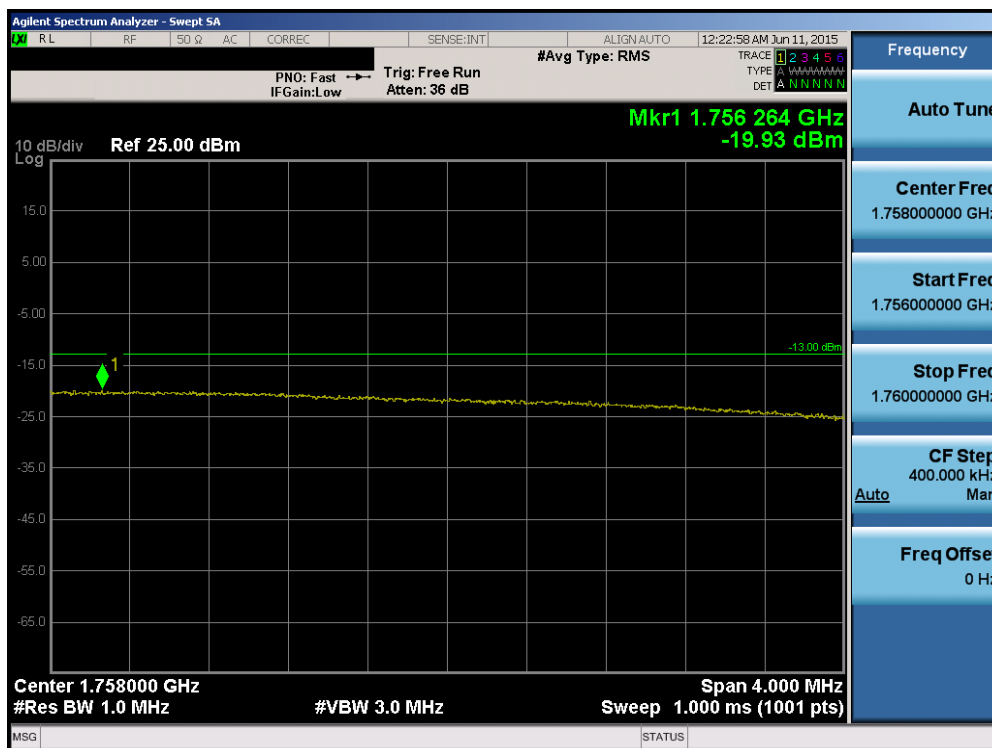


Plot 6-135. Lower Extended Band Edge Plot (Band 4 – 20.0MHz QPSK – RB Size 100)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-136. Upper Band Edge Plot (Band 4 – 20.0MHz QPSK – RB Size 100)

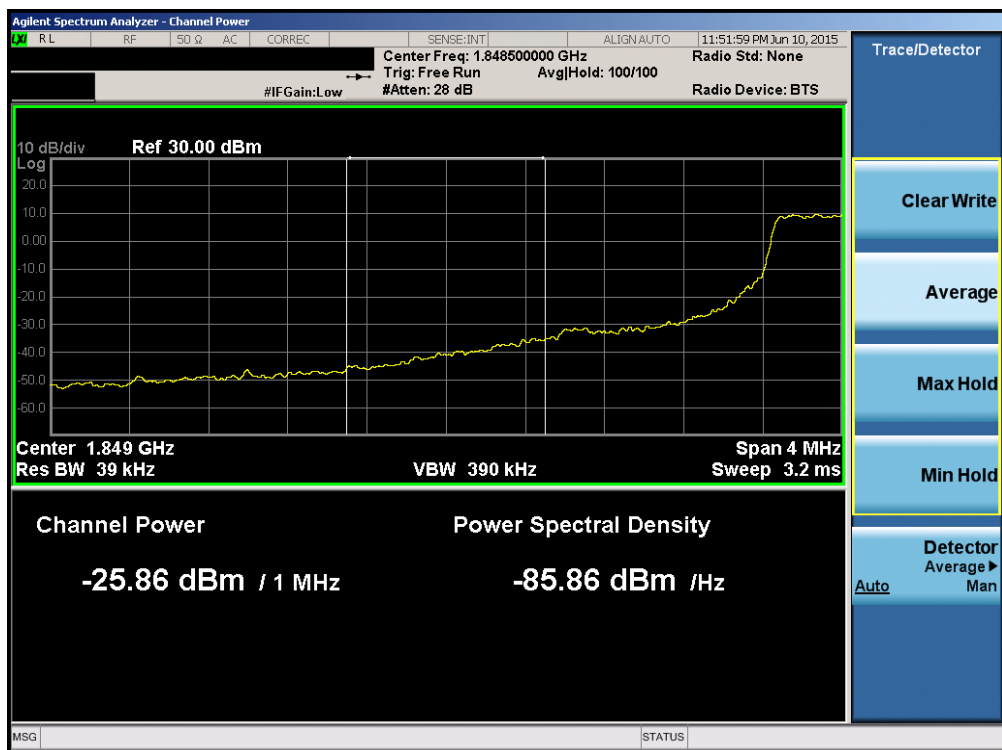


Plot 6-137. Upper Extended Band Edge Plot (Band 4 – 20.0MHz QPSK – RB Size 100)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 83 of 128



Plot 6-138. Lower Band Edge Plot (Band 2 – 1.4MHz QPSK – RB Size 6)

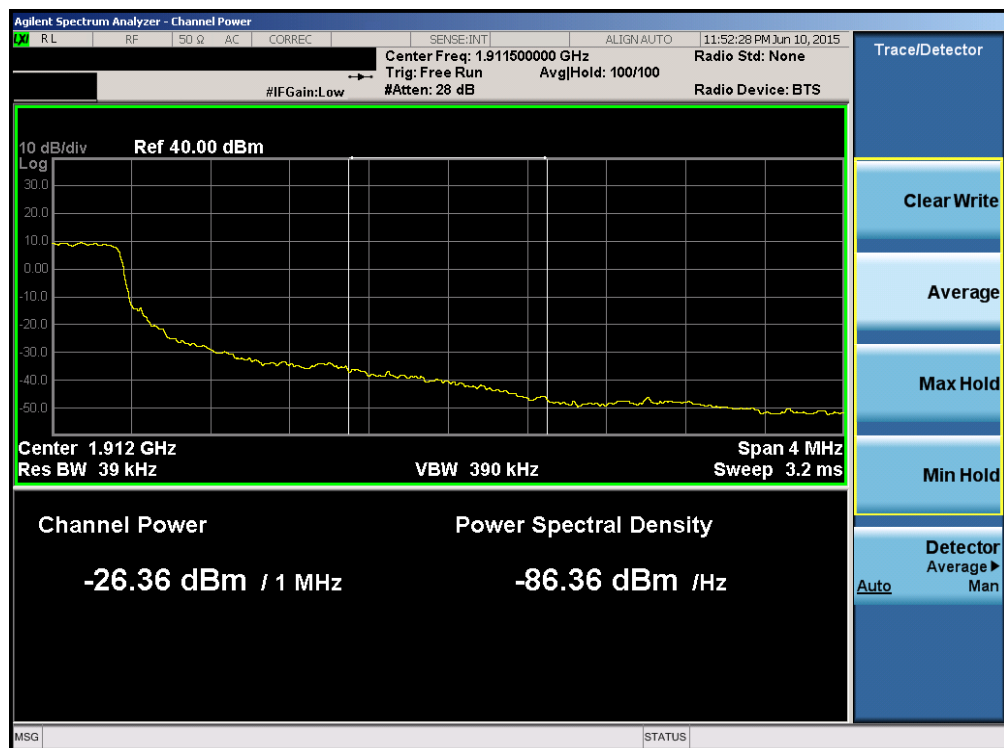


Plot 6-139. Lower Extended Band Edge Plot (Band 2 – 1.4MHz QPSK – RB Size 6)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 84 of 128

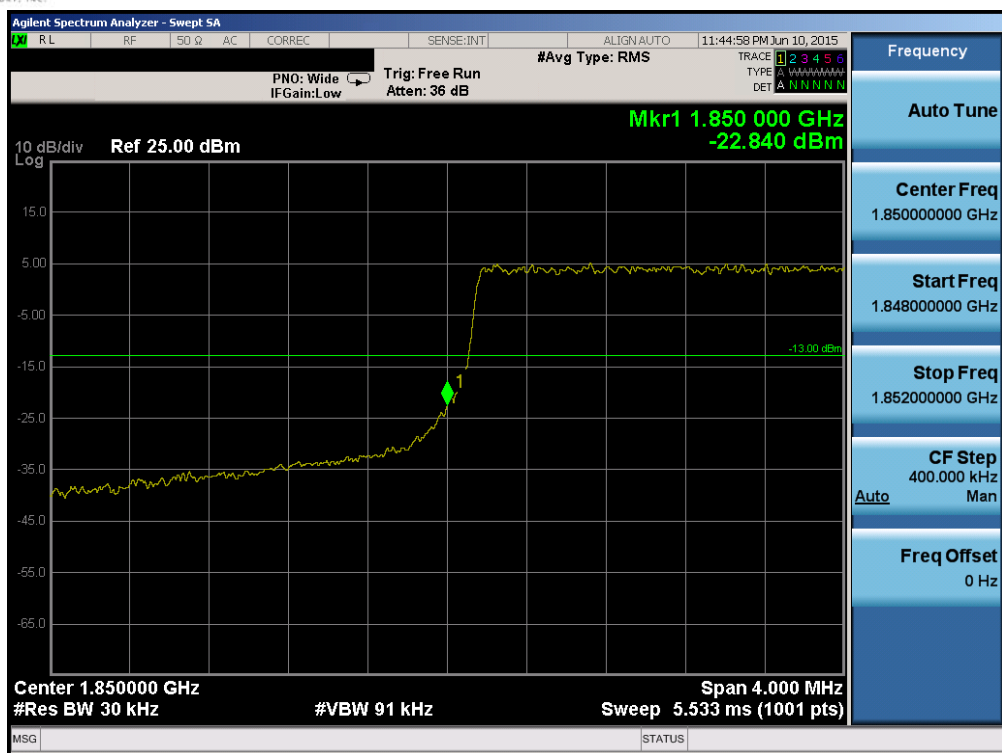


Plot 6-140. Upper Band Edge Plot (Band 2 – 1.4MHz QPSK – RB Size 6)

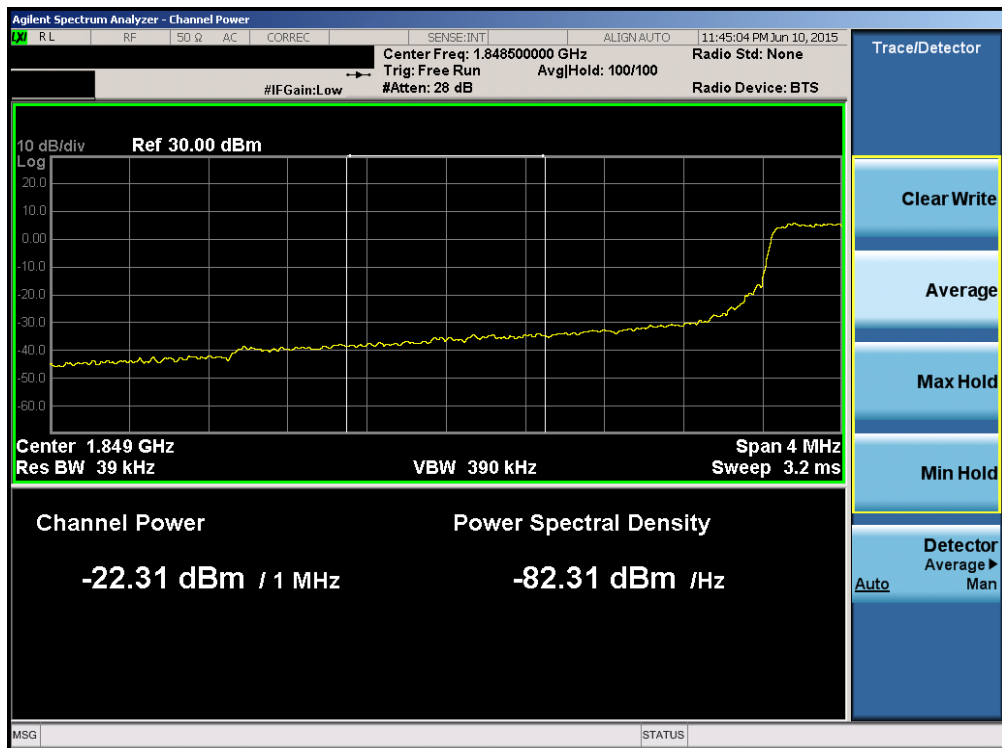


Plot 6-141. Upper Extended Band Edge Plot (Band 2 – 1.4MHz QPSK – RB Size 6)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 85 of 128

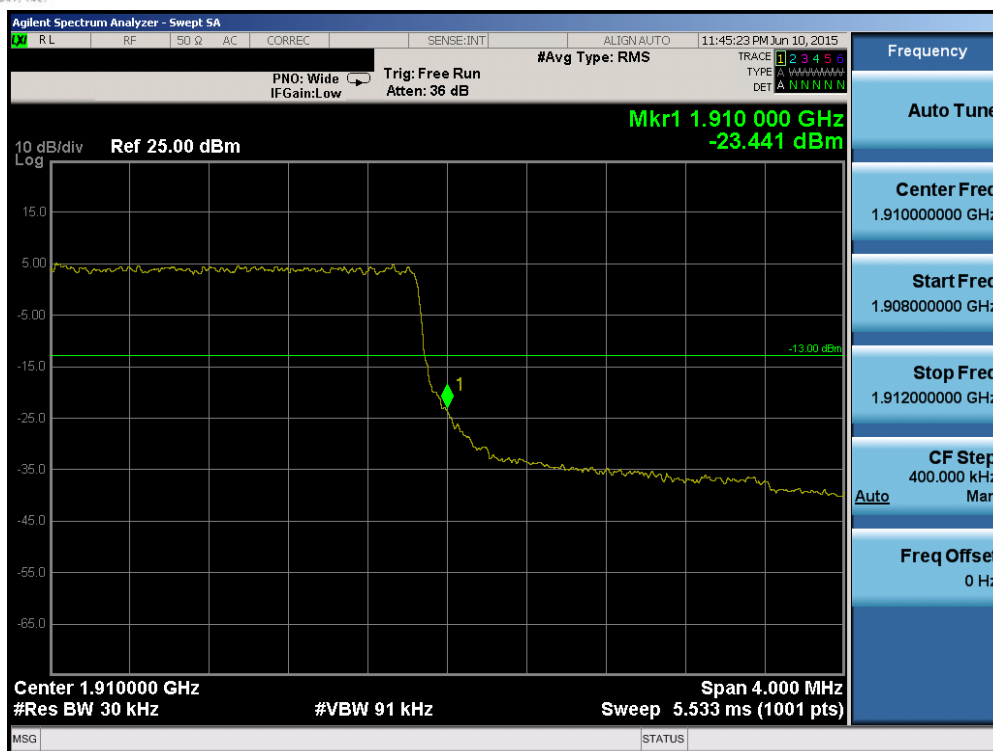


Plot 6-142. Lower Band Edge Plot (Band 2 – 3.0MHz QPSK – RB Size 15)

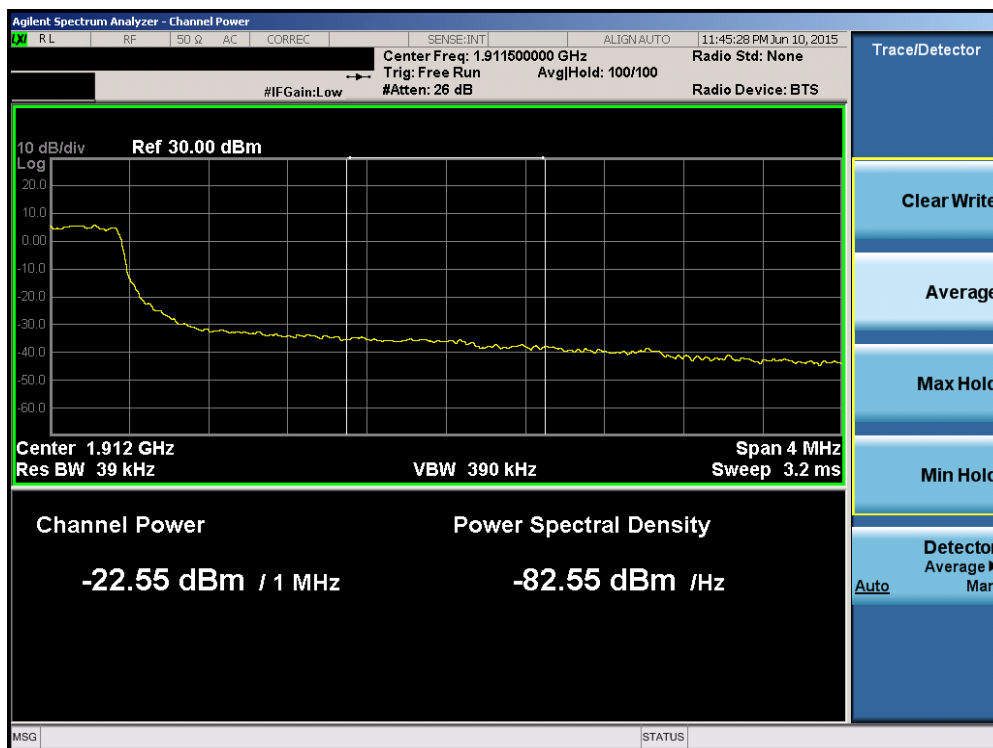


Plot 6-143. Lower Extended Band Edge Plot (Band 2 – 3.0MHz QPSK – RB Size 15)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 86 of 128

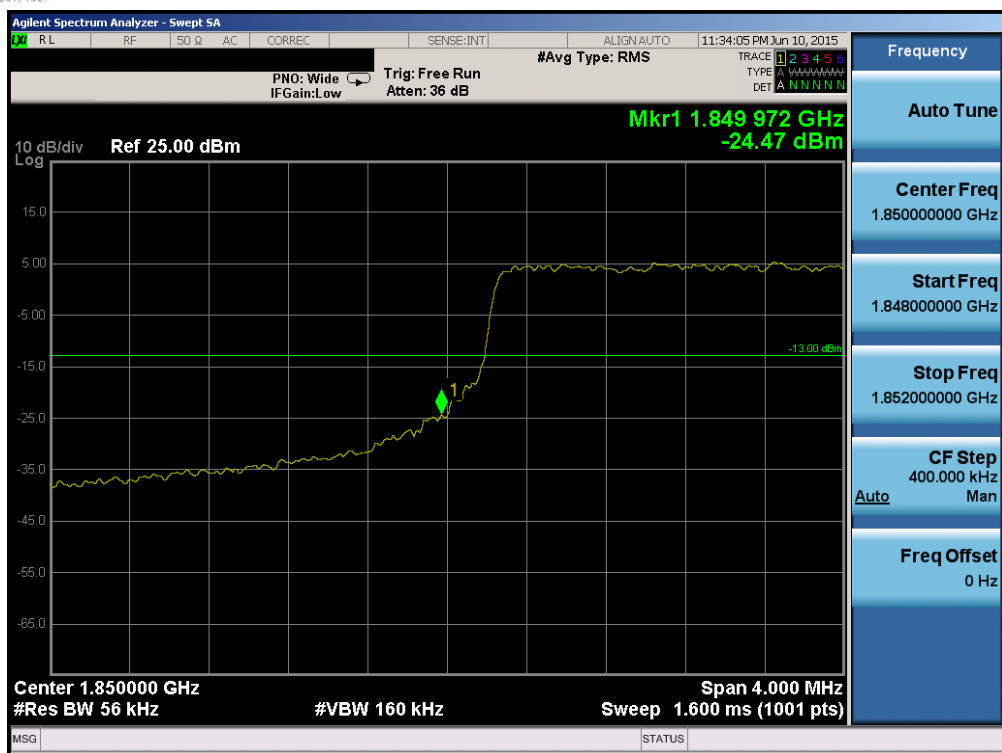


Plot 6-144. Upper Band Edge Plot (Band 2 – 3.0MHz QPSK – RB Size 15)

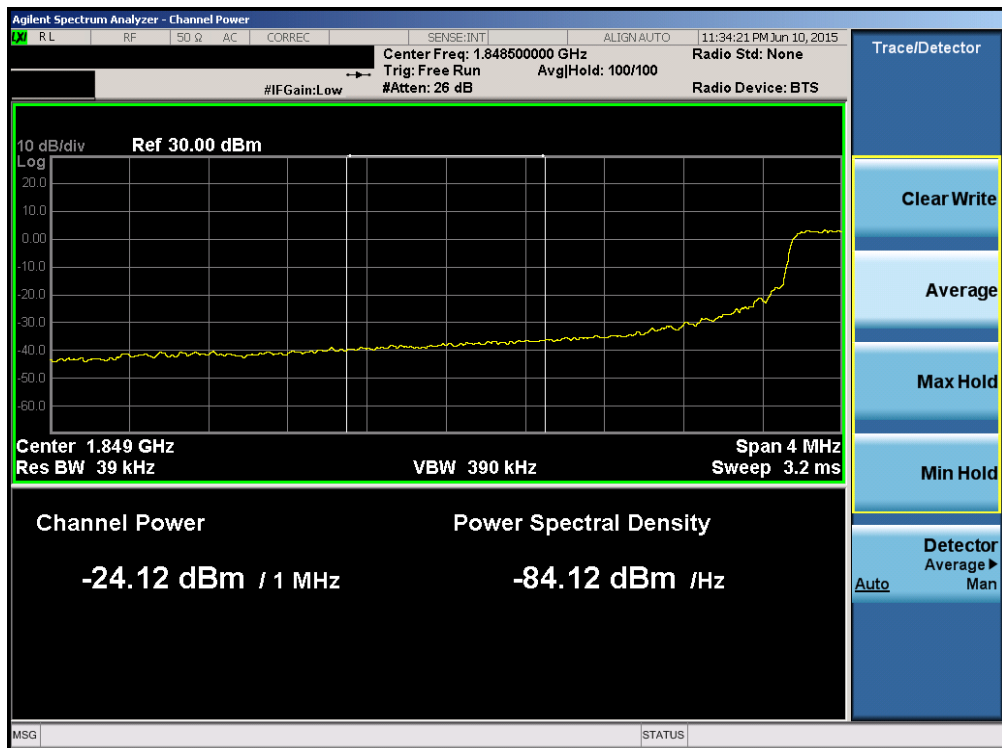


Plot 6-145. Upper Extended Band Edge Plot (Band 2 – 3.0MHz QPSK – RB Size 15)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-146. Lower Band Edge Plot (Band 2 – 5.0MHz QPSK – RB Size 25)

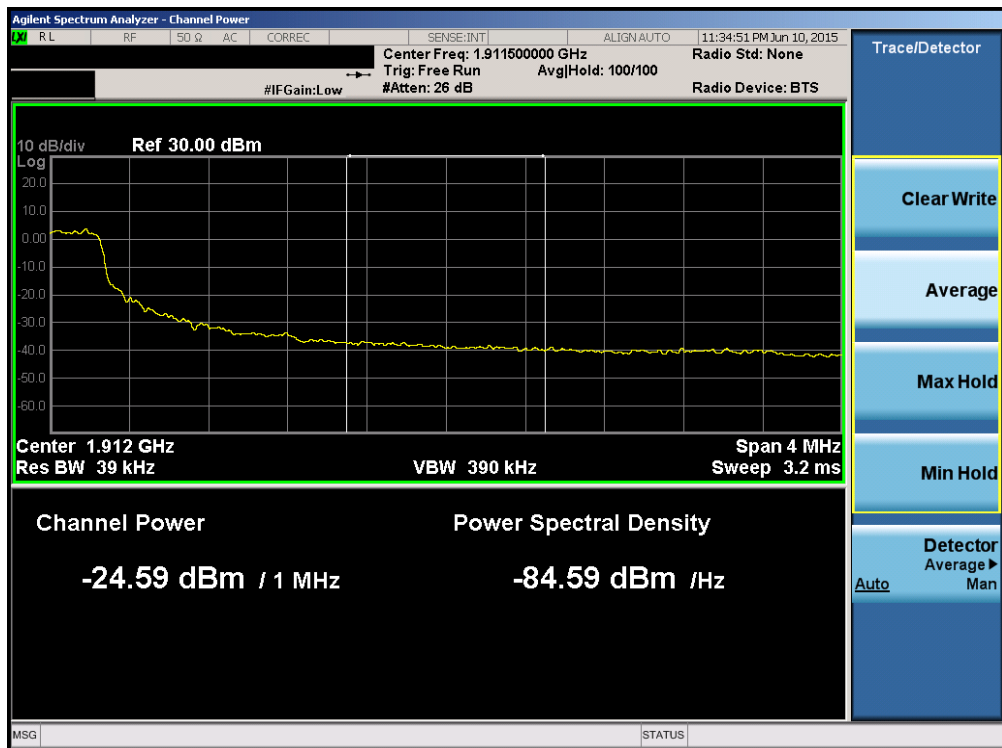


Plot 6-147. Lower Extended Band Edge Plot (Band 2 – 5.0MHz QPSK – RB Size 25)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 88 of 128

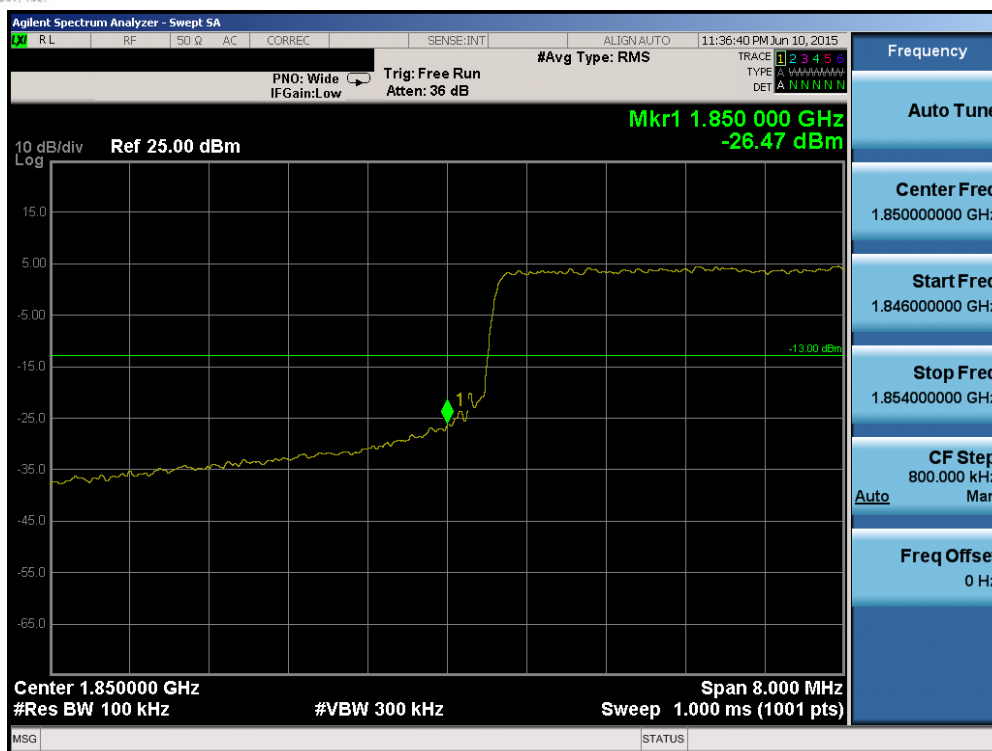


Plot 6-148. Upper Band Edge Plot (Band 2 – 5.0MHz QPSK – RB Size 25)

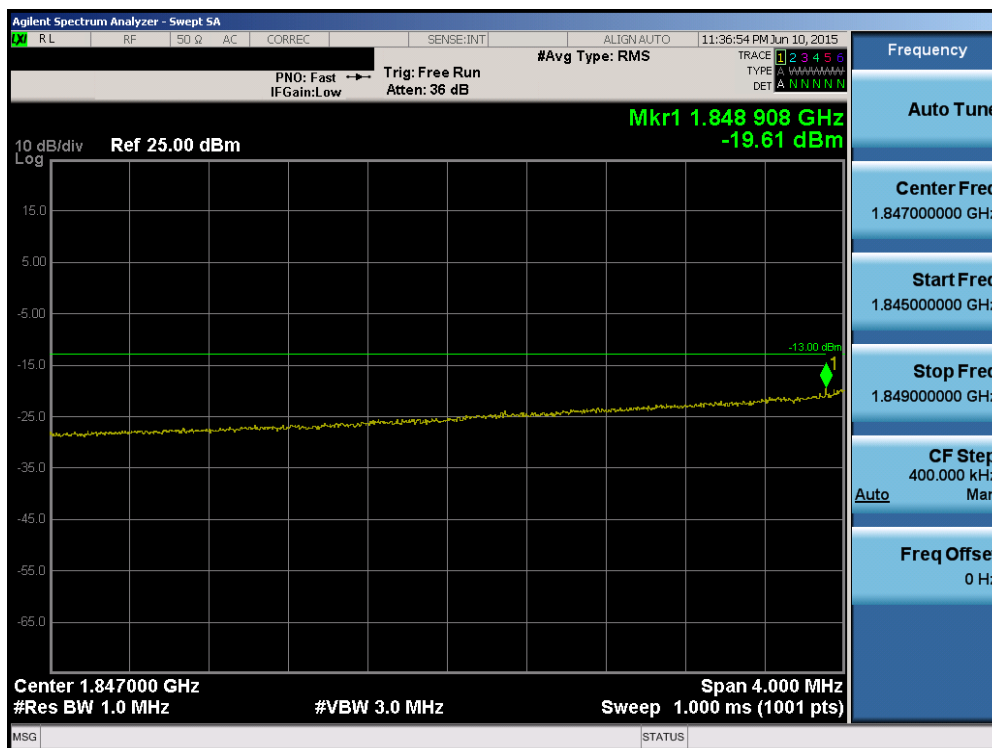


Plot 6-149. Upper Extended Band Edge Plot (Band 2 – 5.0MHz QPSK – RB Size 25)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-150. Lower Band Edge Plot (Band 2 – 10.0MHz QPSK – RB Size 50)



Plot 6-151. Lower Extended Band Edge Plot (Band 2 – 10.0MHz QPSK – RB Size 50)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 90 of 128

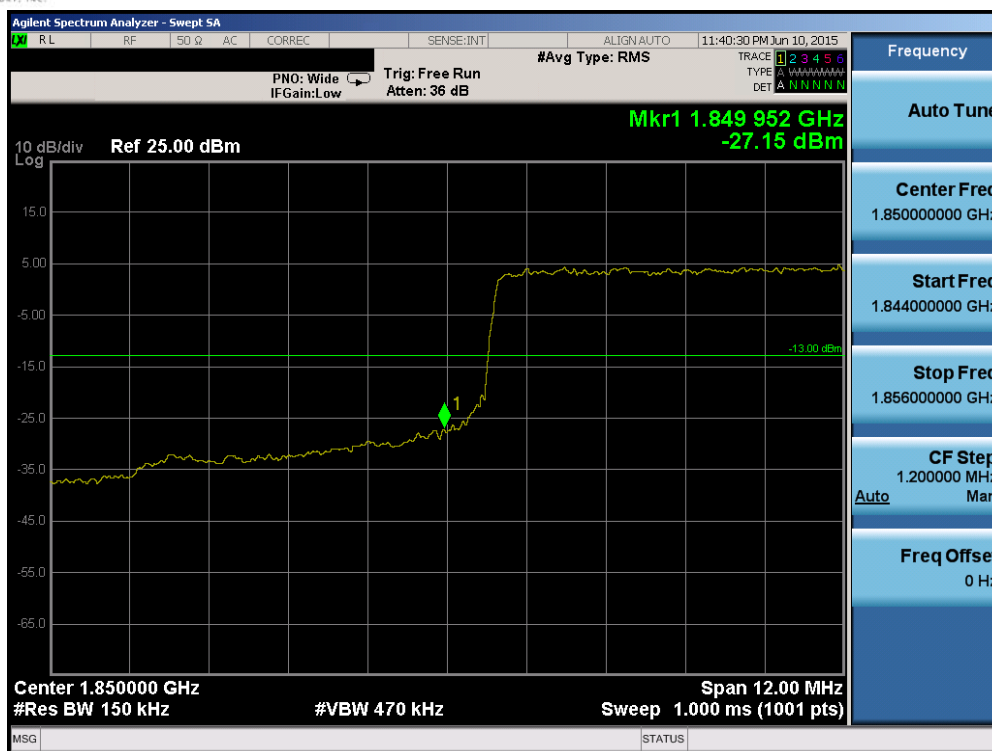


Plot 6-152. Upper Band Edge Plot (Band 2 – 10.0MHz QPSK – RB Size 50)

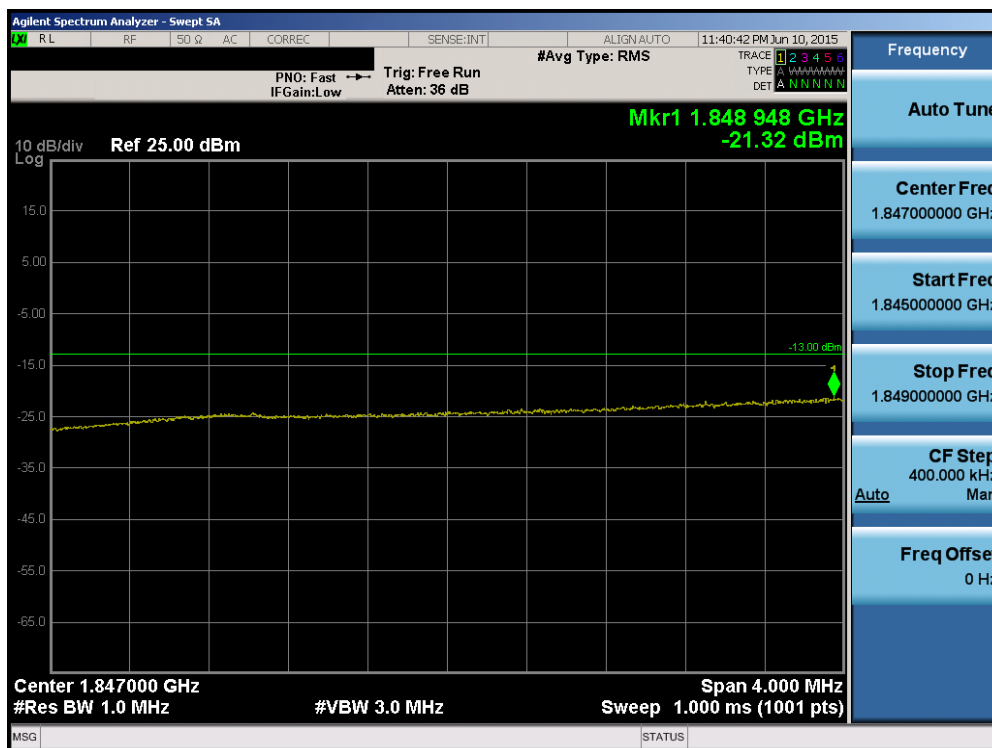


Plot 6-153. Upper Extended Band Edge Plot (Band 2 – 10.0MHz QPSK – RB Size 50)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 91 of 128

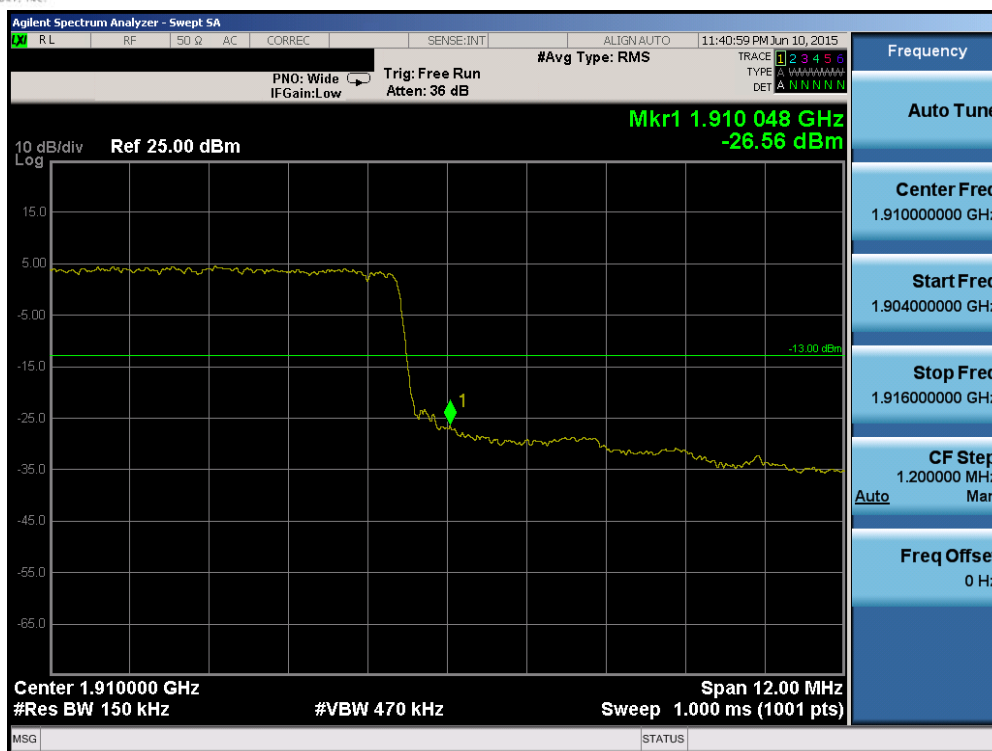


Plot 6-154. Lower Band Edge Plot (Band 2 – 15.0MHz QPSK – RB Size 75)

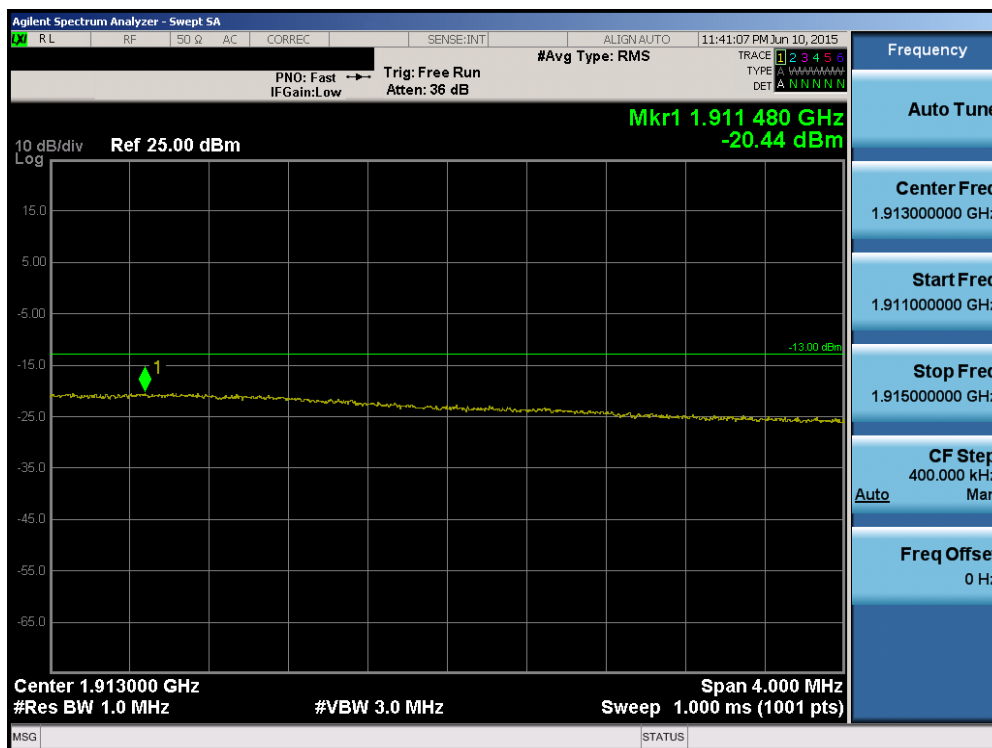


Plot 6-155. Lower Extended Band Edge Plot (Band 2 – 15.0MHz QPSK – RB Size 75)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 92 of 128

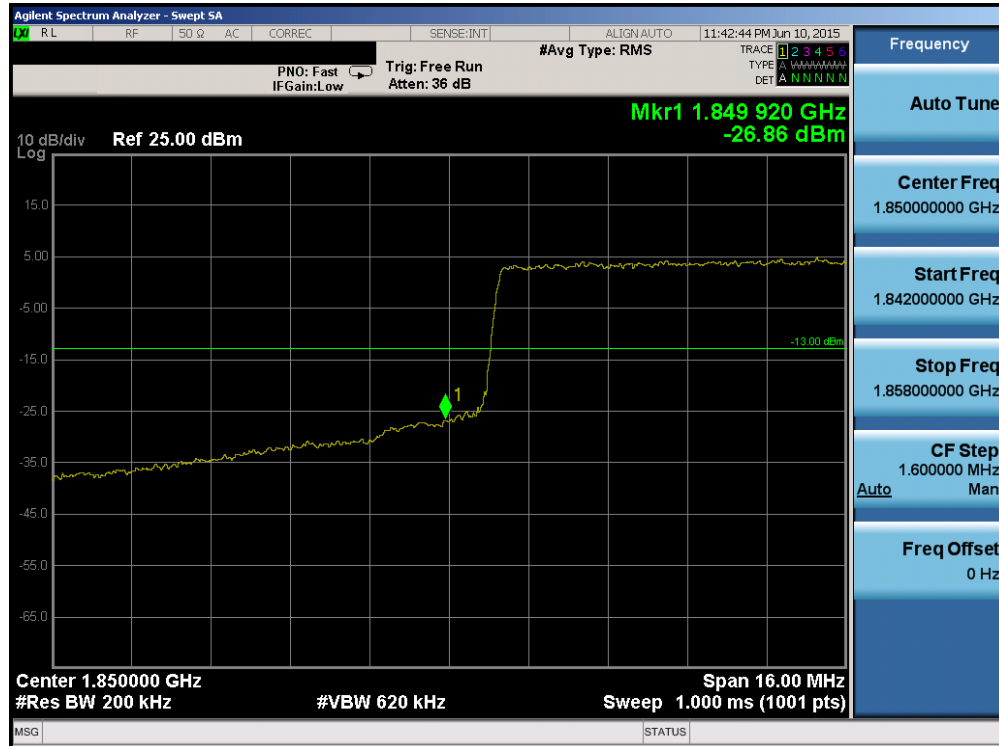


Plot 6-156. Upper Band Edge Plot (Band 2 – 15.0MHz QPSK – RB Size 75)

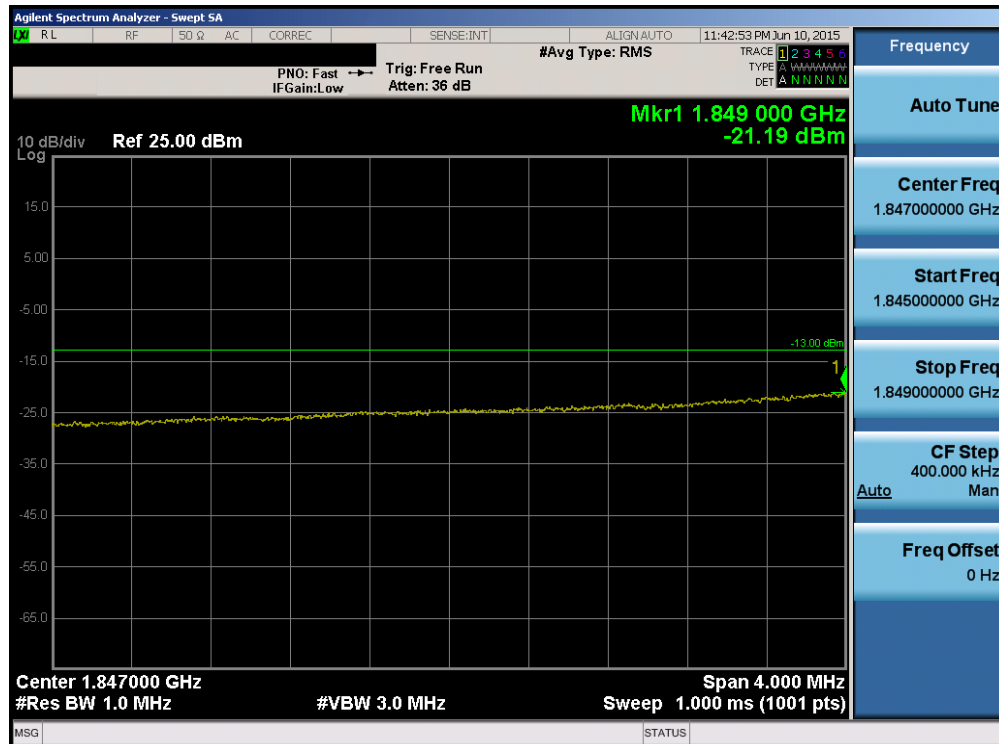


Plot 6-157. Upper Extended Band Edge Plot (Band 2 – 15.0MHz QPSK – RB Size 75)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 93 of 128

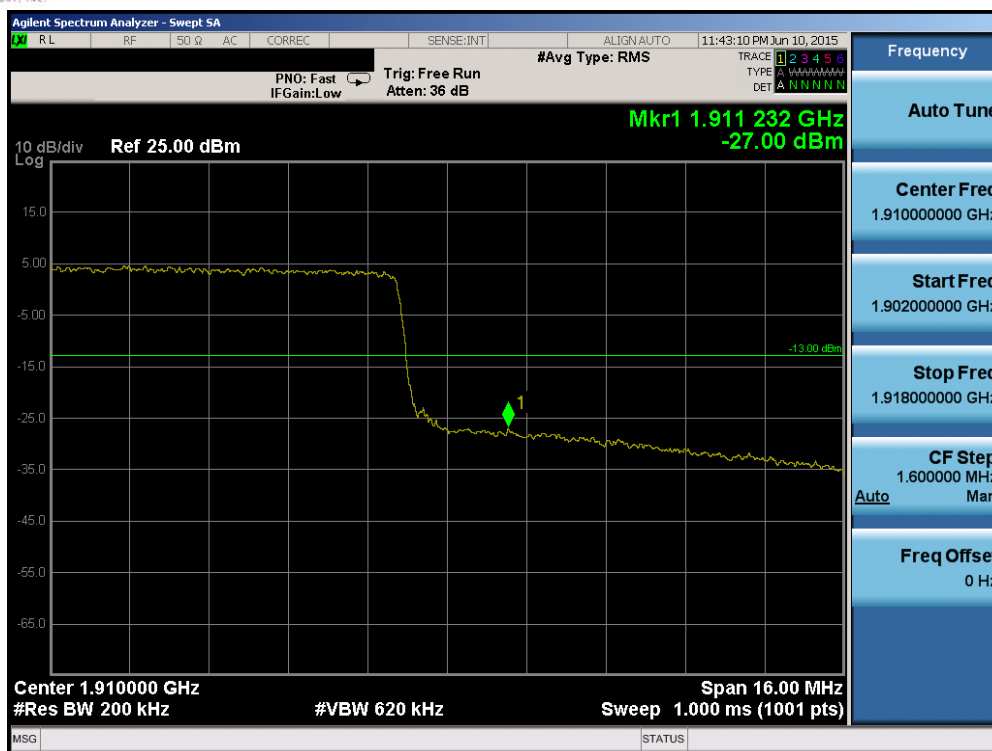


Plot 6-158. Lower Band Edge Plot (Band 2 – 20.0MHz QPSK – RB Size 100)

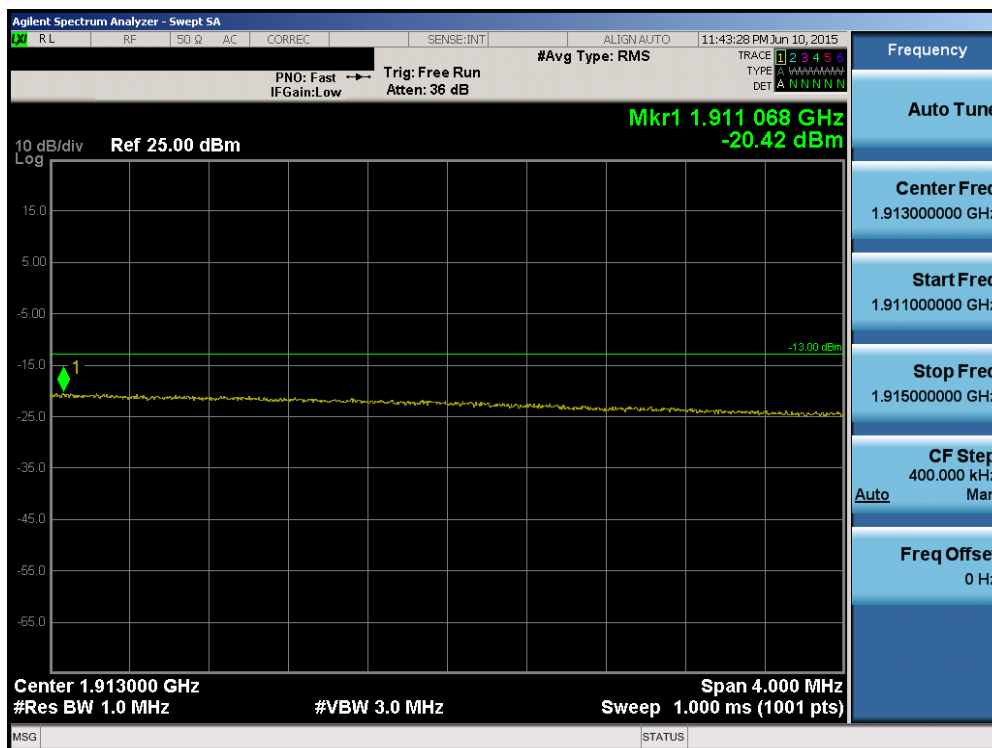


Plot 6-159. Lower Extended Band Edge Plot (Band 2 – 20.0MHz QPSK – RB Size 100)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 94 of 128



Plot 6-160. Upper Band Edge Plot (Band 2 – 20.0MHz QPSK – RB Size 100)



Plot 6-161. Upper Extended Band Edge Plot (Band 2 – 20.0MHz QPSK – RB Size 100)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 95 of 128

6.5 Peak-Average Ratio

§24.232(d)

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

KDB 971168 v02r02 – Section 5.7.1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms.

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

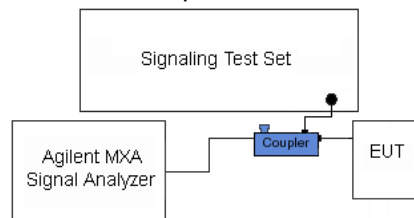
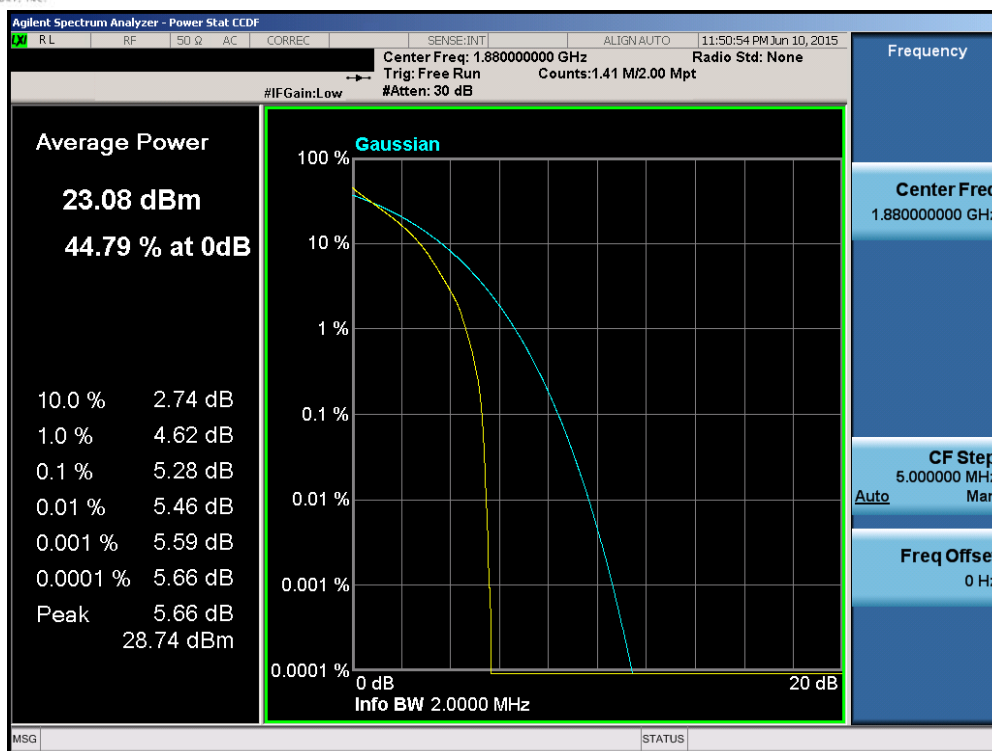


Figure 6-4. Test Instrument & Measurement Setup

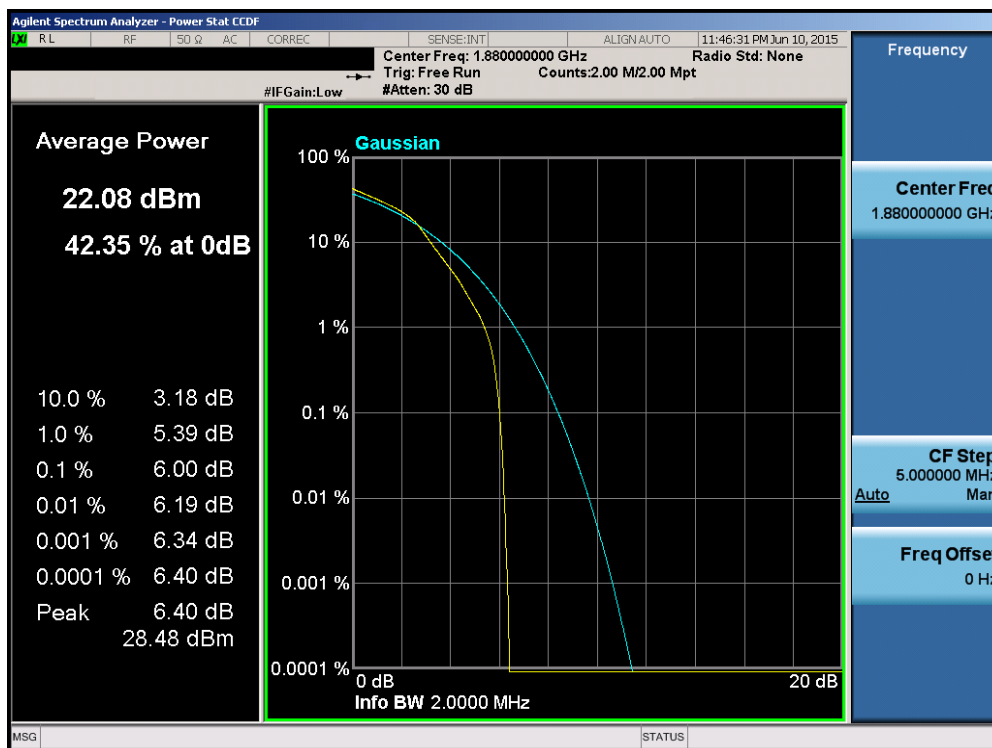
Test Notes

None.

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 96 of 128

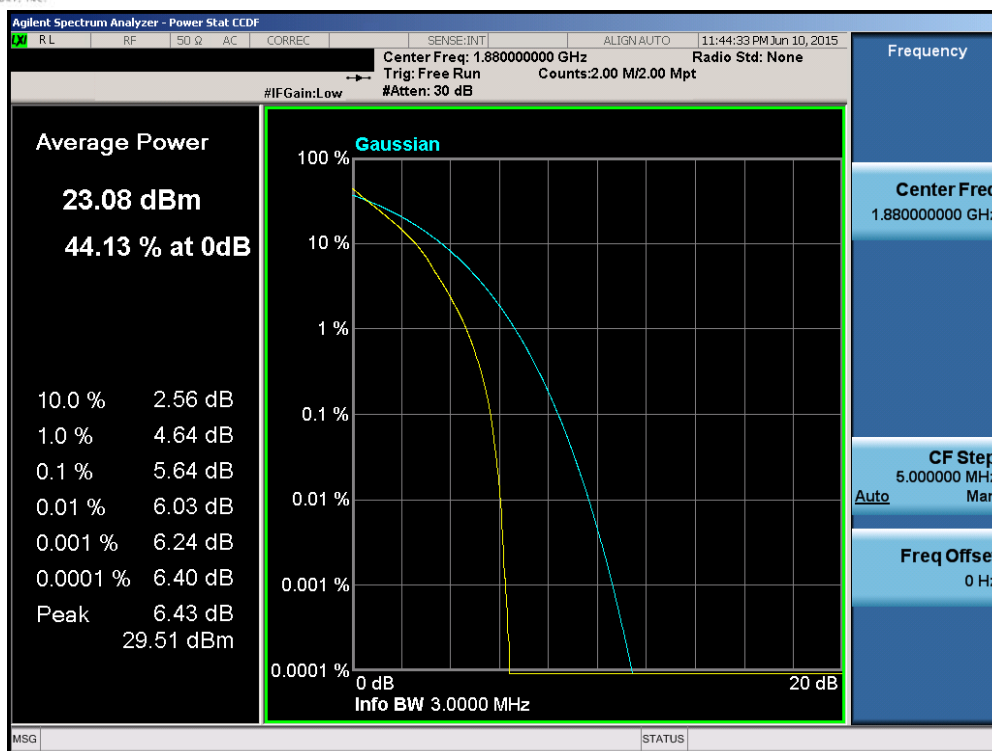


Plot 6-162. PAR Plot (Band 2 – 1.4MHz QPSK – RB Size 6)

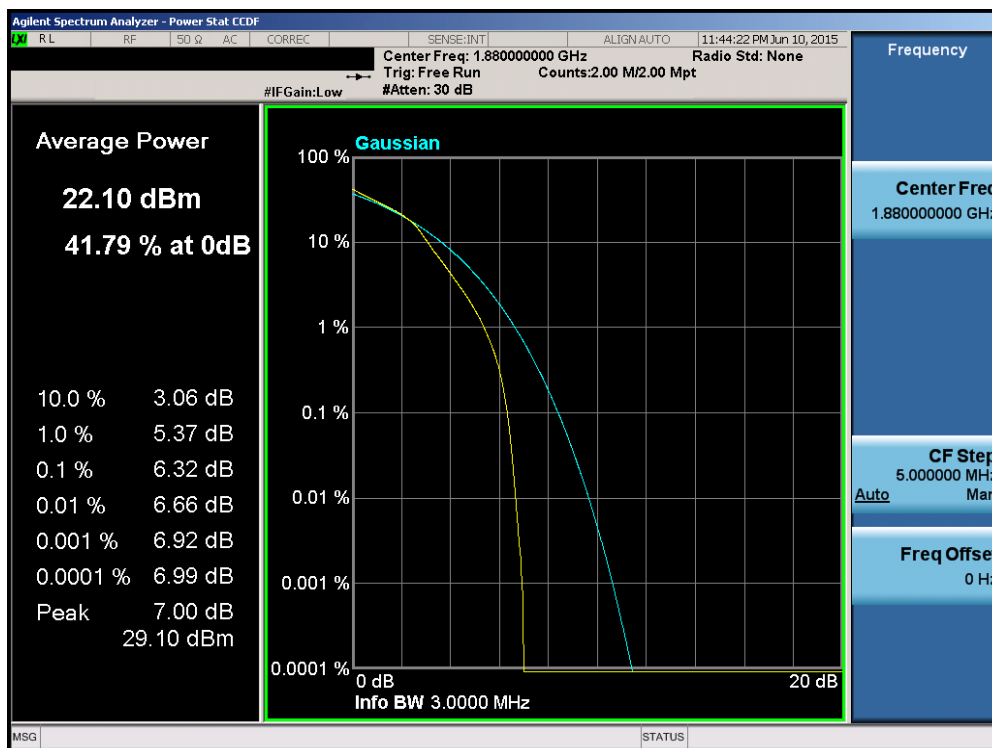


Plot 6-163. PAR Plot (Band 2 – 1.4MHz 16-QAM – RB Size 6)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 97 of 128

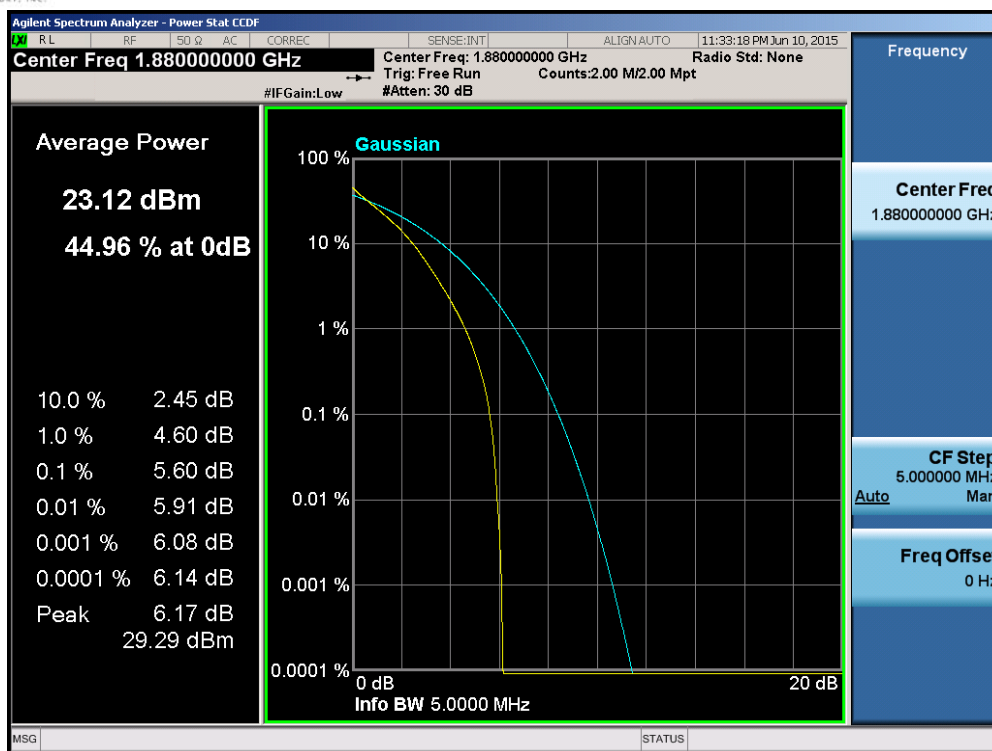


Plot 6-164. PAR Plot (Band 2 – 3.0MHz QPSK – RB Size 15)

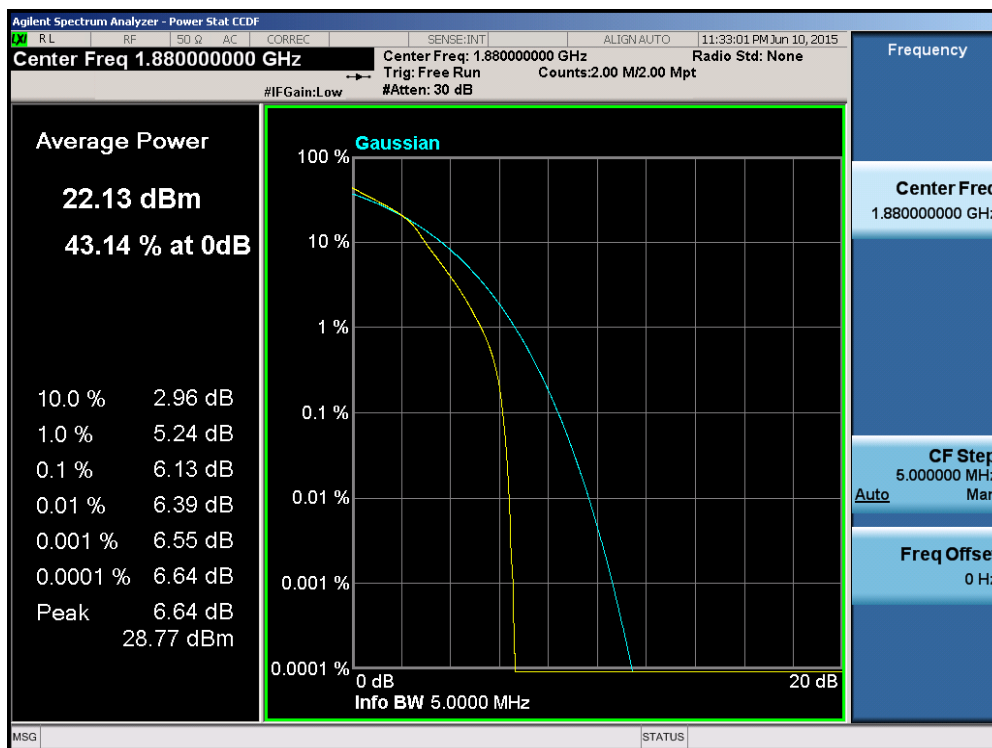


Plot 6-165. PAR Plot (Band 2 – 3.0MHz 16-QAM – RB Size 15)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 98 of 128

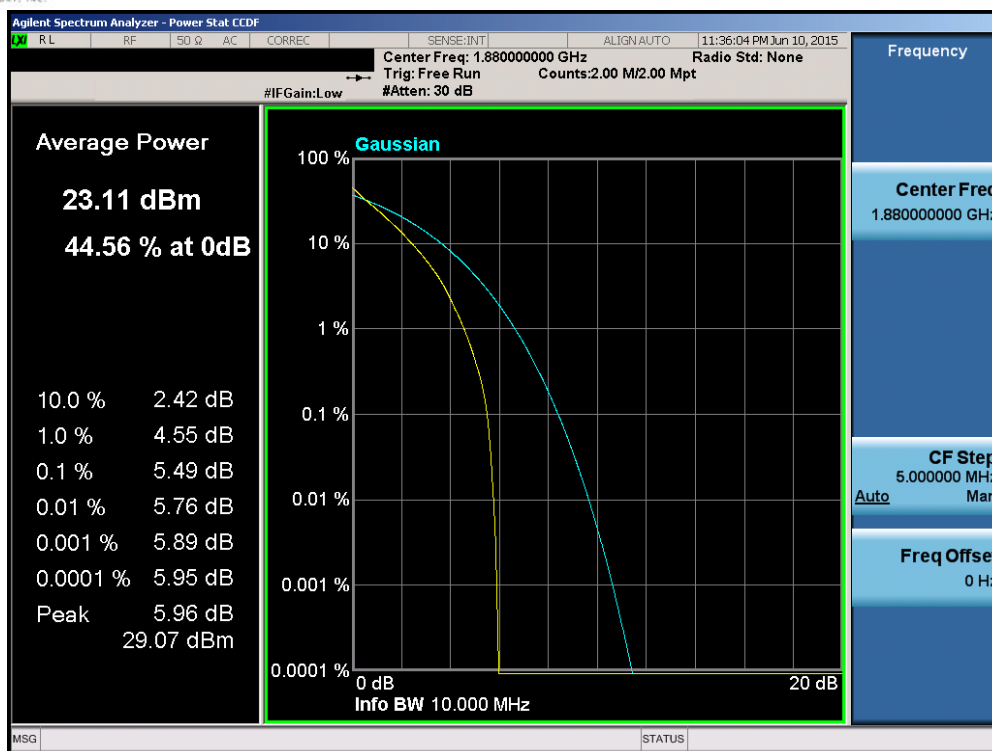


Plot 6-166. PAR Plot (Band 2 – 5.0MHz QPSK – RB Size 25)

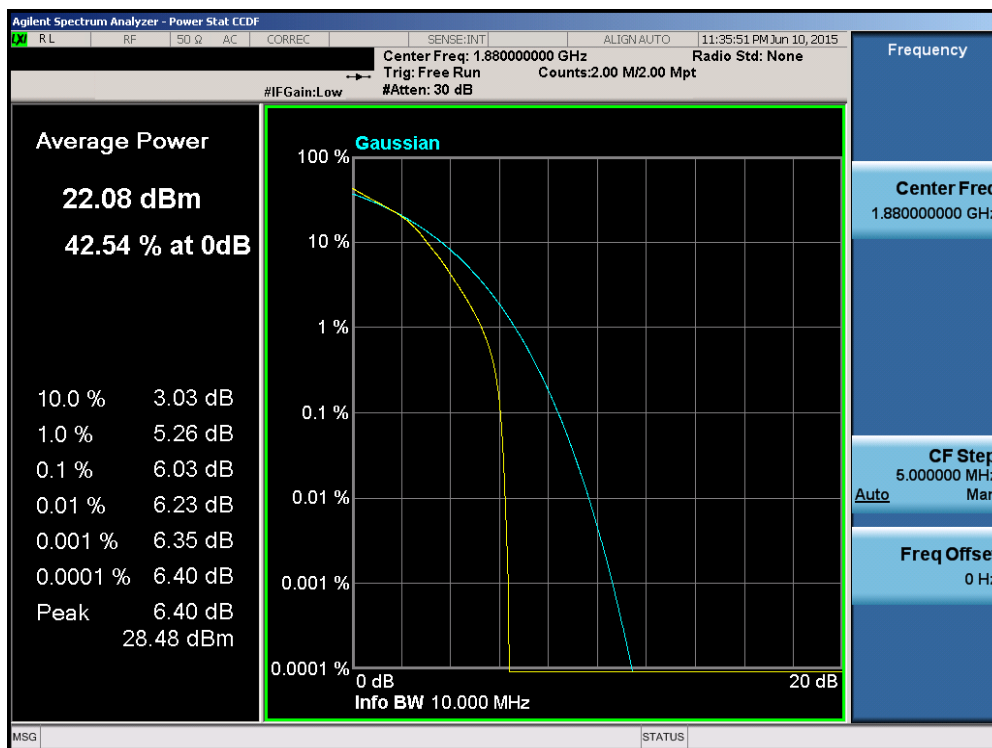


Plot 6-167. PAR Plot (Band 2 – 5.0MHz 16-QAM – RB Size 25)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 99 of 128

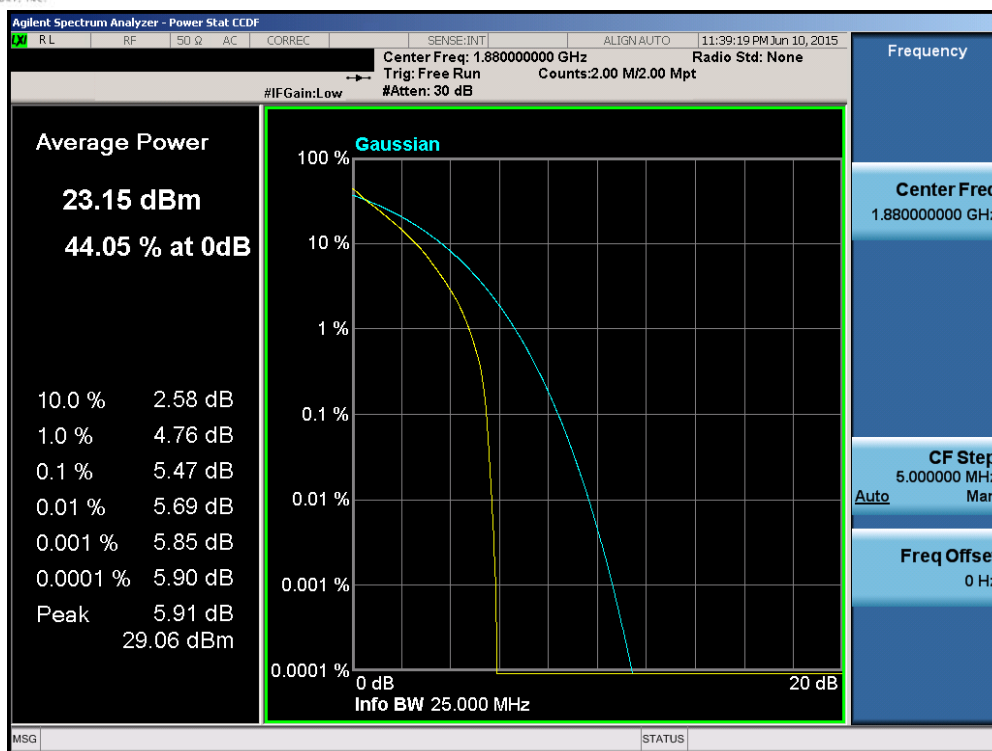


Plot 6-168. PAR Plot (Band 2 – 10.0MHz QPSK – RB Size 50)

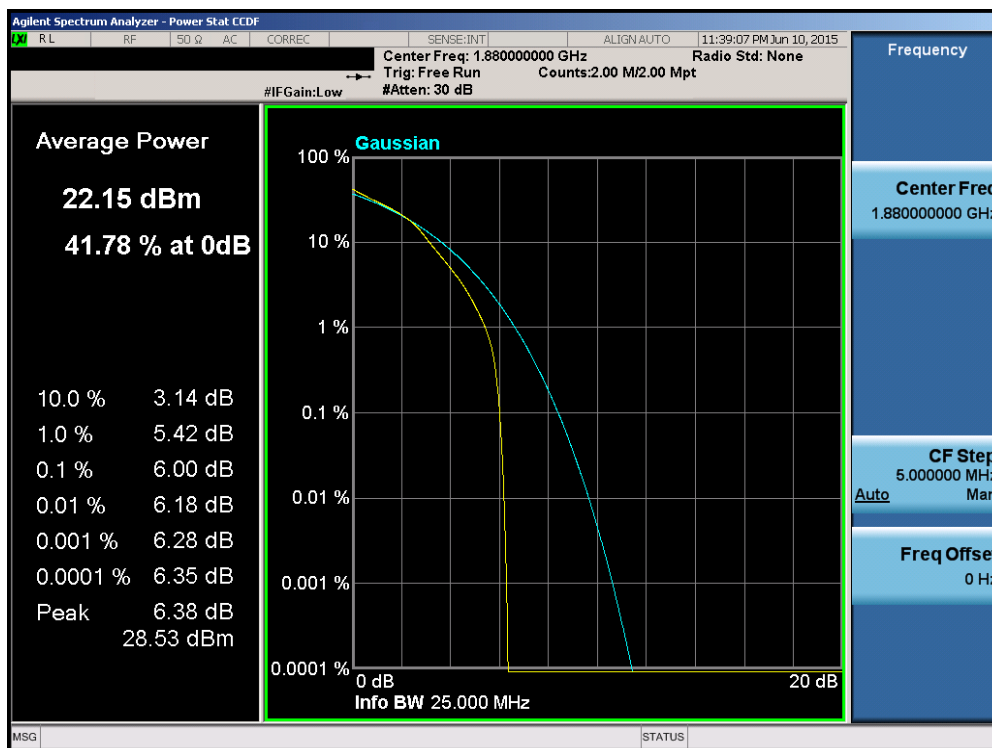


Plot 6-169. PAR Plot (Band 2 – 10.0MHz 16-QAM – RB Size 50)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 100 of 128

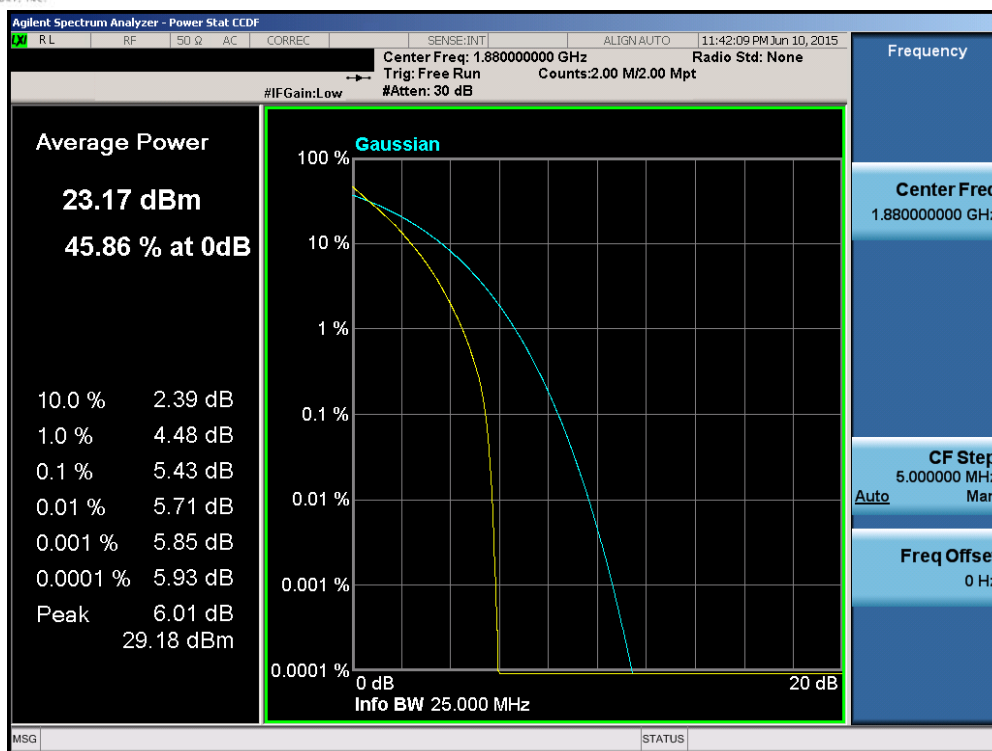


Plot 6-170. PAR Plot (Band 2 – 15.0MHz QPSK – RB Size 75)

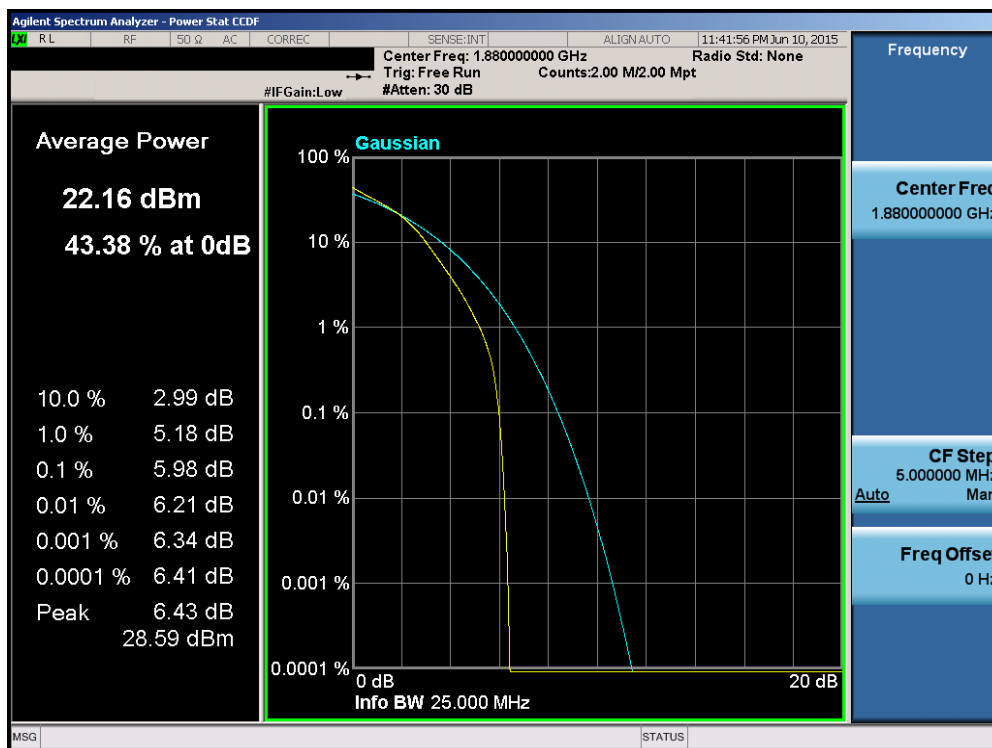


Plot 6-171. PAR Plot (Band 2 – 15.0MHz 16-QAM – RB Size 75)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 101 of 128



Plot 6-172. PAR Plot (Band 2 – 20.0MHz QPSK – RB Size 100)



Plot 6-173. PAR Plot (Band 2 – 20.0MHz 16-QAM – RB Size 100)

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 102 of 128

6.6 Radiated Power (ERP/EIRP)

§22.913(a.2) §24.232(c.2) §27.50(c.10) §27.50(d.4)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-C-2004 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 v02r02 – Section 5.2.1

ANSI/TIA-603-C-2004 – Section 2.2.17

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

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Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

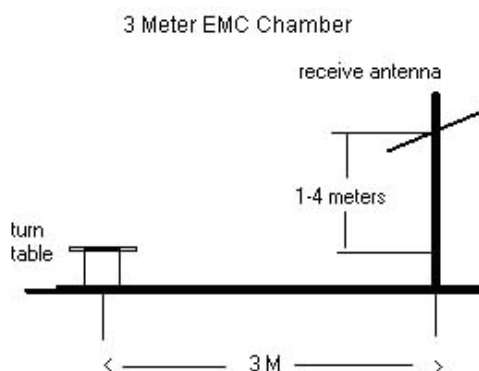


Figure 6-5. Test Instrument & Measurement Setup

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.

FCC ID: A3LSMG928T		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 104 of 128

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery Cover	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBd]	Ant. Pol. [H/V]	ERP [dBm]	ERP Limit [dBm]	Margin [dB]
699.70	1.4	QPSK	Standard	3 / 2	16.41	0.92	V	17.33	34.77	-17.44
707.50	1.4	QPSK	Standard	3 / 2	16.53	1.07	V	17.60	34.77	-17.17
715.30	1.4	QPSK	Standard	3 / 2	16.21	1.23	V	17.44	34.77	-17.34
699.70	1.4	16-QAM	Standard	3 / 2	15.24	0.92	V	16.16	34.77	-18.61
707.50	1.4	16-QAM	Standard	3 / 2	15.14	1.07	V	16.21	34.77	-18.56
715.30	1.4	16-QAM	Standard	3 / 2	15.00	1.23	V	16.23	34.77	-18.55
700.50	3	QPSK	Standard	1 / 14	15.89	0.92	V	16.81	34.77	-17.96
707.50	3	QPSK	Standard	1 / 14	16.21	1.07	V	17.28	34.77	-17.49
714.50	3	QPSK	Standard	1 / 0	16.05	1.21	V	17.26	34.77	-17.51
700.50	3	16-QAM	Standard	1 / 14	14.59	0.92	V	15.51	34.77	-19.26
707.50	3	16-QAM	Standard	1 / 14	14.61	1.07	V	15.68	34.77	-19.09
714.50	3	16-QAM	Standard	1 / 0	15.07	1.21	V	16.28	34.77	-18.49
701.50	5	QPSK	Standard	1 / 24	16.33	0.94	V	17.27	34.77	-17.50
707.50	5	QPSK	Standard	1 / 24	16.74	1.07	V	17.81	34.77	-16.96
713.50	5	QPSK	Standard	1 / 0	16.47	1.19	V	17.66	34.77	-17.11
701.50	5	16-QAM	Standard	1 / 24	14.97	0.94	V	15.91	34.77	-18.86
707.50	5	16-QAM	Standard	1 / 24	15.61	1.07	V	16.68	34.77	-18.09
713.50	5	16-QAM	Standard	1 / 0	15.07	1.19	V	16.26	34.77	-18.51
704.00	10	QPSK	Standard	1 / 49	16.30	1.00	V	17.30	34.77	-17.47
707.50	10	QPSK	Standard	1 / 49	17.32	1.07	V	18.39	34.77	-16.38
711.00	10	QPSK	Standard	1 / 0	16.24	1.14	V	17.38	34.77	-17.39
704.00	10	16-QAM	Standard	1 / 49	15.07	1.00	V	16.07	34.77	-18.70
707.50	10	16-QAM	Standard	1 / 49	15.87	1.07	V	16.94	34.77	-17.83
711.00	10	16-QAM	Standard	1 / 0	15.15	1.14	V	16.29	34.77	-18.48

Table 6-2. ERP Data (Band 12)

FCC ID: A3LSMG928T		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery Cover	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBd]	Ant. Pol. [H/V]	ERP [dBm]	ERP Limit [dBm]	Margin [dB]
824.70	1.4	QPSK	Standard	3 / 2	14.22	2.98	V	17.20	38.45	-21.25
836.50	1.4	QPSK	Standard	3 / 2	14.82	3.04	V	17.86	38.45	-20.59
848.30	1.4	QPSK	Standard	3 / 2	14.10	3.10	V	17.20	38.45	-21.25
824.70	1.4	16-QAM	Standard	3 / 2	12.97	2.98	V	15.95	38.45	-22.50
836.50	1.4	16-QAM	Standard	3 / 2	13.54	3.04	V	16.58	38.45	-21.87
848.30	1.4	16-QAM	Standard	3 / 2	12.89	3.10	V	15.99	38.45	-22.46
825.50	3	QPSK	Standard	1 / 14	13.62	2.98	V	16.60	38.45	-21.85
836.50	3	QPSK	Standard	1 / 14	14.58	3.04	V	17.62	38.45	-20.83
847.50	3	QPSK	Standard	1 / 0	14.42	3.10	V	17.52	38.45	-20.93
825.50	3	16-QAM	Standard	1 / 14	12.35	2.98	V	15.33	38.45	-23.12
836.50	3	16-QAM	Standard	1 / 14	13.02	3.04	V	16.06	38.45	-22.39
847.50	3	16-QAM	Standard	1 / 0	13.48	3.10	V	16.58	38.45	-21.87
826.50	5	QPSK	Standard	1 / 24	14.18	2.99	V	17.17	38.45	-21.28
836.50	5	QPSK	Standard	1 / 24	15.06	3.04	V	18.10	38.45	-20.35
846.50	5	QPSK	Standard	1 / 0	15.03	3.09	V	18.12	38.45	-20.33
826.50	5	16-QAM	Standard	1 / 24	13.01	2.99	V	16.00	38.45	-22.45
836.50	5	16-QAM	Standard	1 / 24	13.84	3.04	V	16.88	38.45	-21.57
846.50	5	16-QAM	Standard	1 / 0	13.44	3.09	V	16.53	38.45	-21.92
829.00	10	QPSK	Standard	1 / 49	14.59	3.00	V	17.59	38.45	-20.86
836.50	10	QPSK	Standard	1 / 49	15.27	3.04	V	18.31	38.45	-20.14
844.00	10	QPSK	Standard	1 / 0	15.51	3.08	V	18.59	38.45	-19.86
829.00	10	16-QAM	Standard	1 / 49	13.23	3.00	V	16.23	38.45	-22.22
836.50	10	16-QAM	Standard	1 / 49	13.76	3.04	V	16.80	38.45	-21.65
844.00	10	16-QAM	Standard	1 / 0	14.38	3.08	V	17.46	38.45	-20.99

Table 6-3. ERP Data (Band 5)

FCC ID: A3LSMG928T		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 106 of 128

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery Cover	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	Ant. Pol. [H/V]	EIRP [dBm]	EIRP Limit [dBm]	Margin [dB]
1710.70	1.4	QPSK	Standard	1 / 0	10.46	9.28	V	19.74	30.00	-10.26
1732.50	1.4	QPSK	Standard	3 / 2	9.06	9.00	V	18.06	30.00	-11.94
1754.30	1.4	QPSK	Standard	1 / 5	8.83	8.72	V	17.55	30.00	-12.45
1710.70	1.4	16-QAM	Standard	1 / 0	9.55	9.28	V	18.83	30.00	-11.17
1732.50	1.4	16-QAM	Standard	3 / 2	9.04	9.00	V	18.04	30.00	-11.96
1754.30	1.4	16-QAM	Standard	1 / 5	7.98	8.72	V	16.70	30.00	-13.30
1711.50	3	QPSK	Standard	1 / 14	11.20	9.27	V	20.47	30.00	-9.53
1732.50	3	QPSK	Standard	1 / 0	9.29	9.00	V	18.29	30.00	-11.71
1753.50	3	QPSK	Standard	1 / 14	9.32	8.73	V	18.05	30.00	-11.95
1711.50	3	16-QAM	Standard	1 / 14	10.26	9.27	V	19.53	30.00	-10.47
1732.50	3	16-QAM	Standard	1 / 0	8.30	9.00	V	17.30	30.00	-12.70
1753.50	3	16-QAM	Standard	1 / 14	8.70	8.73	V	17.43	30.00	-12.57
1712.50	5	QPSK	Standard	1 / 24	11.24	9.26	V	20.50	30.00	-9.50
1732.50	5	QPSK	Standard	1 / 0	10.01	9.00	V	19.01	30.00	-10.99
1752.50	5	QPSK	Standard	1 / 24	8.87	8.74	V	17.61	30.00	-12.39
1712.50	5	16-QAM	Standard	1 / 24	10.76	9.26	V	20.02	30.00	-9.98
1732.50	5	16-QAM	Standard	1 / 0	9.39	9.00	V	18.39	30.00	-11.61
1752.50	5	16-QAM	Standard	1 / 24	7.86	8.74	V	16.60	30.00	-13.40
1715.00	10	QPSK	Standard	1 / 0	12.61	9.22	V	21.83	30.00	-8.17
1732.50	10	QPSK	Standard	1 / 49	11.55	9.00	V	20.55	30.00	-9.45
1750.00	10	QPSK	Standard	1 / 0	13.33	8.77	V	22.10	30.00	-7.90
1715.00	10	16-QAM	Standard	1 / 0	10.78	9.22	V	20.00	30.00	-10.00
1732.50	10	16-QAM	Standard	1 / 49	10.63	9.00	V	19.63	30.00	-10.37
1750.00	10	16-QAM	Standard	1 / 0	12.24	8.77	V	21.01	30.00	-8.99
1717.50	15	QPSK	Standard	1 / 74	11.82	9.19	V	21.01	30.00	-8.99
1732.50	15	QPSK	Standard	1 / 74	12.60	9.00	V	21.60	30.00	-8.40
1747.50	15	QPSK	Standard	1 / 74	12.51	8.80	V	21.31	30.00	-8.69
1717.50	15	16-QAM	Standard	1 / 74	10.64	9.19	V	19.83	30.00	-10.17
1732.50	15	16-QAM	Standard	1 / 74	11.58	9.00	V	20.58	30.00	-9.42
1747.50	15	16-QAM	Standard	1 / 74	11.52	8.80	V	20.32	30.00	-9.68
1720.00	20	QPSK	Standard	1 / 0	11.42	9.16	V	20.58	30.00	-9.42
1732.50	20	QPSK	Standard	1 / 0	10.92	9.00	V	19.92	30.00	-10.08
1745.00	20	QPSK	Standard	1 / 99	12.44	8.83	V	21.27	30.00	-8.73
1720.00	20	16-QAM	Standard	1 / 0	10.41	9.16	V	19.57	30.00	-10.43
1732.50	20	16-QAM	Standard	1 / 0	10.01	9.00	V	19.01	30.00	-10.99
1745.00	20	16-QAM	Standard	1 / 99	11.57	8.83	V	20.40	30.00	-9.60

Table 6-4. EIRP Data (Band 4)

FCC ID: A3LSMG928T		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 107 of 128

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Battery Cover	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	Ant. Pol. [H/V]	EIRP [dBm]	EIRP Limit [dBm]	Margin [dB]
1850.70	1.4	QPSK	Standard	3 / 2	15.20	8.34	V	23.54	33.01	-9.47
1880.00	1.4	QPSK	Standard	1 / 0	9.46	8.46	V	17.92	33.01	-15.09
1909.30	1.4	QPSK	Standard	3 / 2	10.28	8.64	V	18.92	33.01	-14.09
1850.70	1.4	16-QAM	Standard	3 / 2	14.14	8.34	V	22.48	33.01	-10.53
1880.00	1.4	16-QAM	Standard	1 / 0	8.83	8.46	V	17.29	33.01	-15.72
1909.30	1.4	16-QAM	Standard	3 / 2	9.17	8.64	V	17.81	33.01	-15.20
1851.50	3	QPSK	Standard	1 / 0	16.10	8.35	V	24.45	33.01	-8.56
1880.00	3	QPSK	Standard	1 / 0	14.64	8.46	V	23.10	33.01	-9.91
1908.50	3	QPSK	Standard	1 / 0	12.41	8.63	V	21.04	33.01	-11.97
1851.50	3	16-QAM	Standard	1 / 0	15.36	8.35	V	23.71	33.01	-9.30
1880.00	3	16-QAM	Standard	1 / 0	13.61	8.46	V	22.07	33.01	-10.94
1908.50	3	16-QAM	Standard	1 / 0	11.70	8.63	V	20.33	33.01	-12.68
1852.50	5	QPSK	Standard	1 / 0	13.46	8.35	V	21.81	33.01	-11.20
1880.00	5	QPSK	Standard	1 / 0	11.99	8.46	V	20.45	33.01	-12.56
1907.50	5	QPSK	Standard	1 / 0	9.44	8.62	V	18.06	33.01	-14.95
1852.50	5	16-QAM	Standard	1 / 0	11.91	8.35	V	20.26	33.01	-12.75
1880.00	5	16-QAM	Standard	1 / 0	10.55	8.46	V	19.01	33.01	-14.00
1907.50	5	16-QAM	Standard	1 / 0	7.94	8.62	V	16.56	33.01	-16.45
1855.00	10	QPSK	Standard	1 / 0	12.45	8.36	V	20.81	33.01	-12.20
1880.00	10	QPSK	Standard	1 / 49	11.96	8.46	V	20.42	33.01	-12.59
1905.00	10	QPSK	Standard	1 / 0	12.28	8.59	V	20.87	33.01	-12.14
1855.00	10	16-QAM	Standard	1 / 0	11.41	8.36	V	19.77	33.01	-13.24
1880.00	10	16-QAM	Standard	1 / 49	10.94	8.46	V	19.40	33.01	-13.61
1905.00	10	16-QAM	Standard	1 / 0	11.28	8.59	V	19.87	33.01	-13.14
1857.50	15	QPSK	Standard	1 / 74	14.43	8.37	V	22.80	33.01	-10.21
1880.00	15	QPSK	Standard	1 / 0	12.88	8.46	V	21.34	33.01	-11.67
1902.50	15	QPSK	Standard	1 / 0	12.27	8.56	V	20.83	33.01	-12.18
1857.50	15	16-QAM	Standard	1 / 74	13.37	8.37	V	21.74	33.01	-11.27
1880.00	15	16-QAM	Standard	1 / 0	11.98	8.46	V	20.44	33.01	-12.57
1902.50	15	16-QAM	Standard	1 / 0	11.24	8.56	V	19.80	33.01	-13.21
1860.00	20	QPSK	Standard	1 / 0	14.49	8.38	V	22.87	33.01	-10.14
1880.00	20	QPSK	Standard	1 / 99	13.55	8.46	V	22.01	33.01	-11.00
1900.00	20	QPSK	Standard	1 / 0	12.17	8.53	V	20.70	33.01	-12.31
1860.00	20	16-QAM	Standard	1 / 0	13.53	8.38	V	21.91	33.01	-11.10
1880.00	20	16-QAM	Standard	1 / 99	12.56	8.46	V	21.02	33.01	-11.99
1900.00	20	16-QAM	Standard	1 / 0	11.26	8.53	V	19.79	33.01	-13.22

Table 6-5. EIRP Data (Band 2)

FCC ID: A3LSMG928T		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 108 of 128

6.7 Radiated Spurious Emissions Measurements

§2.1053 §22.917(a) §24.238(a) §27.53(g) §27.53(h)

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/TIA-603-C-2004 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 v02r02 – Section 5.8

ANSI/TIA-603-C-2004 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = Peak
6. Trace mode = max hold
7. The trace was allowed to stabilize

Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

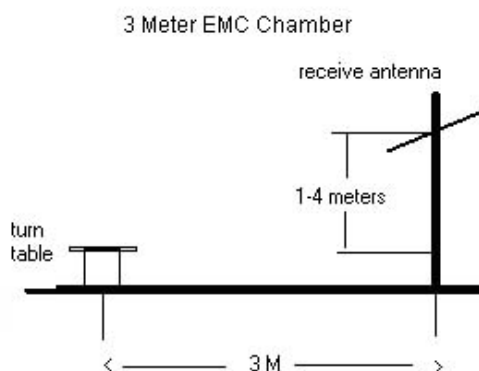


Figure 6-6. Test Instrument & Measurement Setup

FCC ID: A3LSMG928T	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 109 of 128

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.

OPERATING FREQUENCY: 704.00 MHz
 CHANNEL: 23060
 MEASURED OUTPUT POWER: 17.30 dBm = 0.054 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10}(W) =$ 30.30 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1408.00	-59.71	2.51	-57.20	H	74.5
2112.00	-53.09	2.98	-50.11	H	67.4

Table 6-6. Radiated Spurious Data (Band 12 – Low Channel)

FCC ID: A3LSMG928T		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1506101144.A3L	Test Dates: 6/10 - 6/22/2015	EUT Type: Portable Handset		Page 110 of 128

OPERATING FREQUENCY: 707.50 MHz
 CHANNEL: 23095
 MEASURED OUTPUT POWER: 18.39 dBm = 0.069 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 31.39 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1415.00	-58.65	2.59	-56.06	H	74.4
2122.50	-54.07	3.02	-51.06	H	69.4
2830.00	-58.45	4.74	-53.71	H	72.1
3537.50	-59.47	6.28	-53.19	H	71.6

Table 6-7. Radiated Spurious Data (Band 12 – Mid Channel)

OPERATING FREQUENCY: 711.00 MHz
 CHANNEL: 23130
 MEASURED OUTPUT POWER: 17.38 dBm = 0.055 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 30.38 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1422.00	-54.93	2.66	-52.26	H	69.6
2133.00	-51.52	3.05	-48.47	H	65.8
2844.00	-54.89	4.73	-50.16	H	67.5

Table 6-8. Radiated Spurious Data (Band 12 – High Channel)

OPERATING FREQUENCY: 707.50 MHz
 CHANNEL: 23095
 MEASURED OUTPUT POWER: 17.30 dBm = 0.054 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 30.30 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1415.00	-64.99	5.73	-59.26	H	76.6
2122.50	-62.47	6.73	-55.74	H	73.0
2830.00	-65.05	7.80	-57.26	H	74.6

Table 6-9. Radiated Spurious Data with WCP (Band 12 – Mid Channel)

OPERATING FREQUENCY: 829.00 MHz
 CHANNEL: 20450
 MEASURED OUTPUT POWER: 17.59 dBm = 0.057 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 30.59 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1658.00	-59.79	3.58	-56.20	H	73.8
2487.00	-53.48	3.56	-49.92	H	67.5
3316.00	-59.57	5.71	-53.86	H	71.4

Table 6-10. Radiated Spurious Data (Band 5 – Low Channel)

OPERATING FREQUENCY: 836.50 MHz
 CHANNEL: 20525
 MEASURED OUTPUT POWER: 18.31 dBm = 0.068 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 31.31 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1673.00	-59.21	3.53	-55.68	H	74.0
2509.50	-55.20	3.57	-51.63	H	69.9
3346.00	-58.15	5.78	-52.37	H	70.7

Table 6-11. Radiated Spurious Data (Band 5 – Mid Channel)

OPERATING FREQUENCY: 844.00 MHz
 CHANNEL: 20600
 MEASURED OUTPUT POWER: 18.59 dBm = 0.072 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 31.59 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1688.00	-57.77	3.47	-54.29	H	72.9
2532.00	-56.33	3.62	-52.72	H	71.3
3376.00	-59.20	5.86	-53.34	H	71.9

Table 6-12. Radiated Spurious Data (Band 5 – High Channel)

OPERATING FREQUENCY: 844.00 MHz
 CHANNEL: 20600
 MEASURED OUTPUT POWER: 17.38 dBm = 0.055 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 30.38 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBd]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
1688.00	-66.47	6.55	-59.92	H	77.3
2532.00	-63.70	7.35	-56.35	H	73.7
3376.00	-62.11	7.48	-54.63	H	72.0

Table 6-13. Radiated Spurious Data with WCP (Band 5 – High Channel)

OPERATING FREQUENCY: 1715.00 MHz
 CHANNEL: 20000
 MEASURED OUTPUT POWER: 21.83 dBm = 0.153 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 34.83 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3430.00	-40.07	8.17	-31.90	H	53.7
5145.00	-52.34	10.28	-42.07	H	63.9
6860.00	-56.21	11.40	-44.81	H	66.6

Table 6-14. Radiated Spurious Data (Band 4 – Low Channel)

OPERATING FREQUENCY: 1732.50 MHz
 CHANNEL: 20175
 MEASURED OUTPUT POWER: 20.55 dBm = 0.113 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 33.55 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3465.00	-33.71	8.29	-25.42	H	46.0
5197.50	-45.38	10.35	-35.03	H	55.6
6930.00	-55.62	11.49	-44.14	H	64.7

Table 6-15. Radiated Spurious Data (Band 4 – Mid Channel)

OPERATING FREQUENCY: 1750.00 MHz
 CHANNEL: 20350
 MEASURED OUTPUT POWER: 22.10 dBm = 0.162 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 35.10 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3500.00	-34.37	8.40	-25.97	H	48.1
5250.00	-47.05	10.36	-36.69	H	58.8
7000.00	-60.20	11.55	-48.65	H	70.7

Table 6-16. Radiated Spurious Data (Band 4 – High Channel)

OPERATING FREQUENCY: 1750.00 MHz
 CHANNEL: 20350
 MEASURED OUTPUT POWER: 22.10 dBm = 0.162 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 10.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 35.10 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3500.00	-50.57	9.73	-40.85	H	62.9
5250.00	-50.63	10.63	-39.99	H	62.1
7000.00	-58.28	11.76	-46.53	H	68.6
8750.00	-52.79	11.02	-41.77	H	63.9

Table 6-17. Radiated Spurious Data with WCP (Band 4 – High Channel)

OPERATING FREQUENCY: 1851.50 MHz
 CHANNEL: 18615
 MEASURED OUTPUT POWER: 24.45 dBm = 0.278 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 3.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 37.45 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3703.00	-40.59	8.40	-32.20	H	56.6
5554.50	-50.05	10.56	-39.49	H	63.9
7406.00	-53.65	12.05	-41.60	H	66.0
9257.50	-55.31	13.22	-42.09	H	66.5

Table 6-18. Radiated Spurious Data (Band 2 – Low Channel)

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 18900
 MEASURED OUTPUT POWER: 23.10 dBm = 0.204 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 3.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 36.10 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3760.00	-34.75	8.38	-26.36	H	49.5
5640.00	-46.98	10.70	-36.28	H	59.4
7520.00	-49.65	12.10	-37.54	H	60.6
9400.00	-56.88	13.19	-43.69	H	66.8

Table 6-19. Radiated Spurious Data (Band 2 – Mid Channel)

OPERATING FREQUENCY: 1908.50 MHz
 CHANNEL: 19185
 MEASURED OUTPUT POWER: 21.04 dBm = 0.127 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 3.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 34.04 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3817.00	-39.86	8.40	-31.45	H	52.5
5725.50	-50.68	10.76	-39.92	H	61.0
7634.00	-55.41	12.21	-43.19	H	64.2
9542.50	-55.69	13.18	-42.51	H	63.5

Table 6-20. Radiated Spurious Data (Band 2 – High Channel)

OPERATING FREQUENCY: 1851.50 MHz
 CHANNEL: 18615
 MEASURED OUTPUT POWER: 24.45 dBm = 0.279 W
 MODULATION SIGNAL: QPSK
 BANDWIDTH: 3.0 MHz
 DISTANCE: 3 meters
 LIMIT: $43 + 10 \log_{10} (W) =$ 37.45 dBc

Frequency [MHz]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Ant. Pol. [H/V]	[dBc]
3703.00	-33.64	9.43	-24.21	H	48.7
5554.50	-42.08	10.79	-31.29	H	55.7
7406.00	-47.15	10.70	-36.45	H	60.9
9257.50	-52.45	11.58	-40.87	H	65.3

Table 6-21. Radiated Spurious Data with WCP (Band 2 – Low Channel)

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6.8 Frequency Stability / Temperature Variation

\$2.1055 \$22.355 \$24.235 \$27.54

Test Overview and Limit

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.

For Part 22, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24 and Part 27, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI/TIA-603-C-2004

Test Settings

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 period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

None

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Band 12 Frequency Stability Measurements

§2.1055 §27.54

OPERATING FREQUENCY: 707,500,000 Hz

CHANNEL: 23790

REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	707,499,965	-35	-0.0000049
100 %		- 30	707,499,851	-149	-0.0000210
100 %		- 20	707,499,979	-21	-0.0000030
100 %		- 10	707,499,957	-43	-0.0000061
100 %		0	707,499,823	-177	-0.0000251
100 %		+ 10	707,499,836	-164	-0.0000232
100 %		+ 20	707,499,838	-162	-0.0000229
100 %		+ 30	707,499,950	-50	-0.0000070
100 %		+ 40	707,499,883	-117	-0.0000165
100 %		+ 50	707,499,978	-22	-0.0000032
BATT. ENDPOINT	3.40	+ 20	707,499,906	-94	-0.0000133

Table 6-22. Frequency Stability Data (Band 12)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Band 12 Frequency Stability Measurements

§2.1055 §27.54

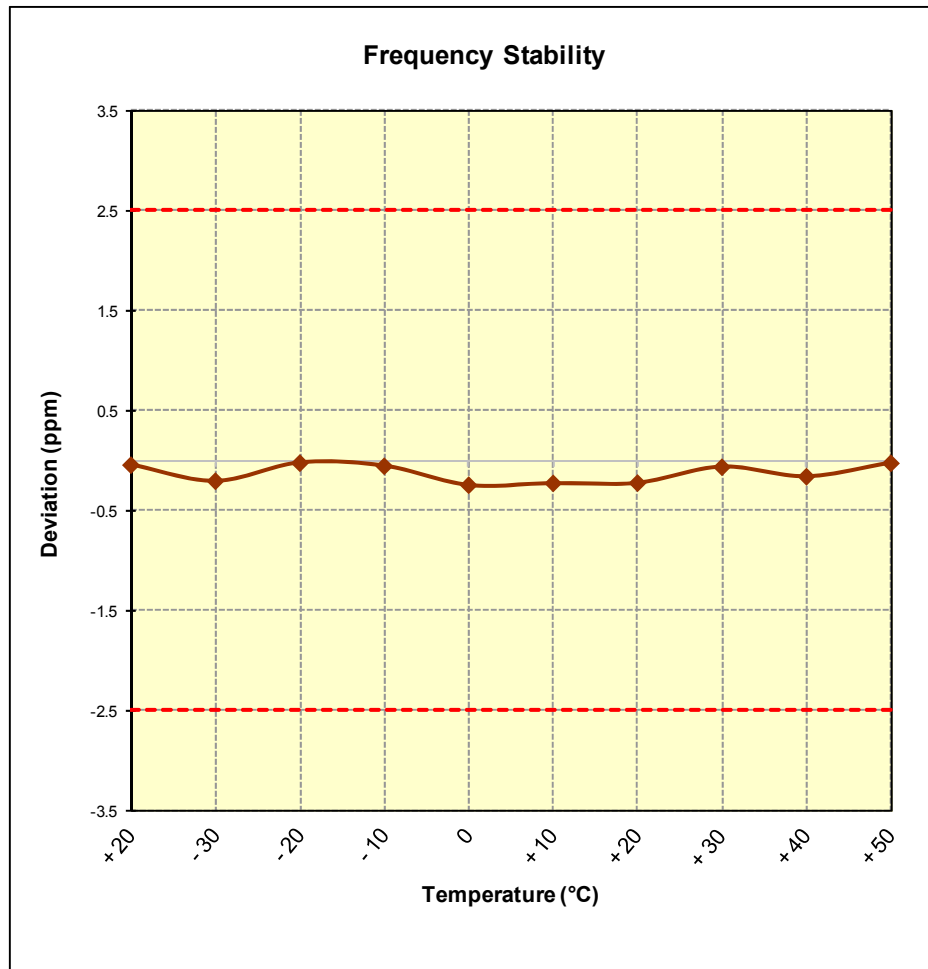


Figure 6-7. Frequency Stability Graph (Band 12)

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Band 5 Frequency Stability Measurements

§2.1055 §22.355

OPERATING FREQUENCY: 836,500,000 Hz

CHANNEL: 20525

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)	836,499,961	-39	-0.0000046
100 %		- 30	836,499,843	-157	-0.0000188
100 %		- 20	836,499,889	-111	-0.0000133
100 %		- 10	836,499,857	-143	-0.0000172
100 %		0	836,499,890	-110	-0.0000131
100 %		+ 10	836,499,906	-94	-0.0000112
100 %		+ 20	836,499,891	-109	-0.0000130
100 %		+ 30	836,499,812	-188	-0.0000225
100 %		+ 40	836,499,967	-33	-0.0000040
100 %		+ 50	836,499,878	-122	-0.0000146
BATT. ENDPOINT	3.40	+ 20	836,499,900	-100	-0.0000120

Table 6-23. Frequency Stability Data (Band 5)

Band 5 Frequency Stability Measurements

§2.1055 §22.355

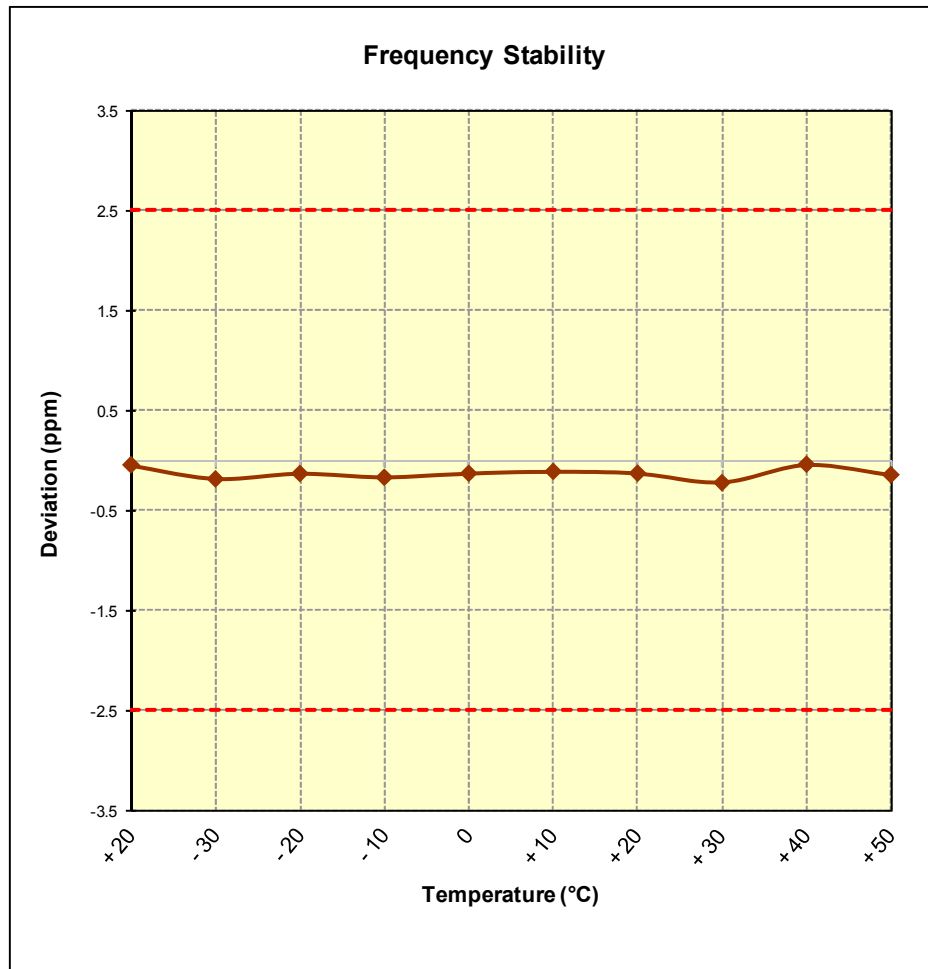


Figure 6-8. Frequency Stability Graph (Band 5)

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Band 4 Frequency Stability Measurements

§2.1055 §27.54

OPERATING FREQUENCY: 1,732,500,000 Hz

CHANNEL: 20175

REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	1,732,499,900	-100	-0.0000058
100 %		- 30	1,732,499,899	-101	-0.0000058
100 %		- 20	1,732,499,884	-116	-0.0000067
100 %		- 10	1,732,499,917	-83	-0.0000048
100 %		0	1,732,499,832	-168	-0.0000097
100 %		+ 10	1,732,499,983	-17	-0.0000010
100 %		+ 20	1,732,499,850	-150	-0.0000087
100 %		+ 30	1,732,499,889	-111	-0.0000064
100 %		+ 40	1,732,499,900	-100	-0.0000058
100 %		+ 50	1,732,499,947	-53	-0.0000031
BATT. ENDPOINT	3.40	+ 20	1,732,499,830	-170	-0.0000098

Table 6-24. Frequency Stability Data (Band 4)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Band 4 Frequency Stability Measurements

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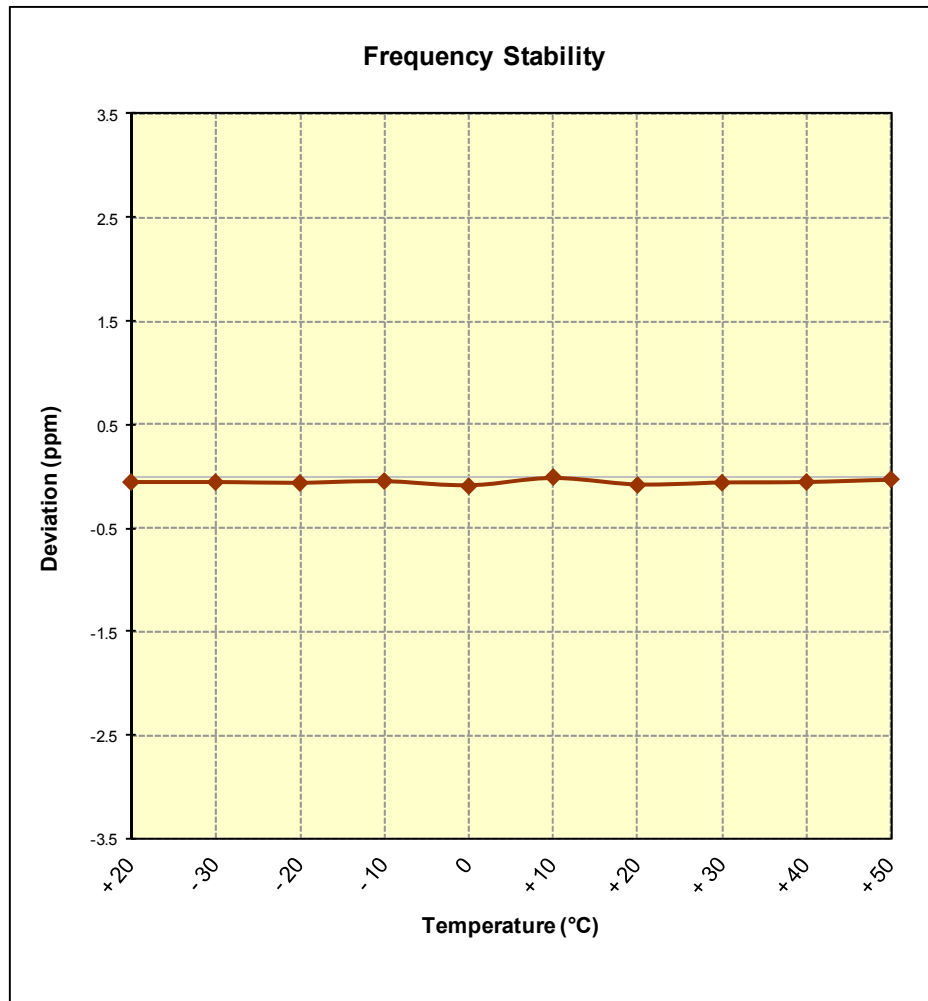


Figure 6-9. Frequency Stability Graph (Band 4)

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Band 2 Frequency Stability Measurements

§2.1055 §24.235

OPERATING FREQUENCY: 1,880,000,000 Hz

CHANNEL: 18900

REFERENCE VOLTAGE: 3.85 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.85	+ 20 (Ref)	1,879,999,808	-192	-0.0000102
100 %		- 30	1,879,999,902	-98	-0.0000052
100 %		- 20	1,879,999,856	-144	-0.0000076
100 %		- 10	1,879,999,973	-27	-0.0000015
100 %		0	1,879,999,851	-149	-0.0000079
100 %		+ 10	1,879,999,925	-75	-0.0000040
100 %		+ 20	1,879,999,914	-86	-0.0000046
100 %		+ 30	1,879,999,841	-159	-0.0000085
100 %		+ 40	1,879,999,801	-199	-0.0000106
100 %		+ 50	1,879,999,832	-168	-0.0000089
BATT. ENDPOINT	3.40	+ 20	1,879,999,935	-65	-0.0000034

Table 6-25. Frequency Stability Data (Band 2)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Band 2 Frequency Stability Measurements

§2.1055 §24.235

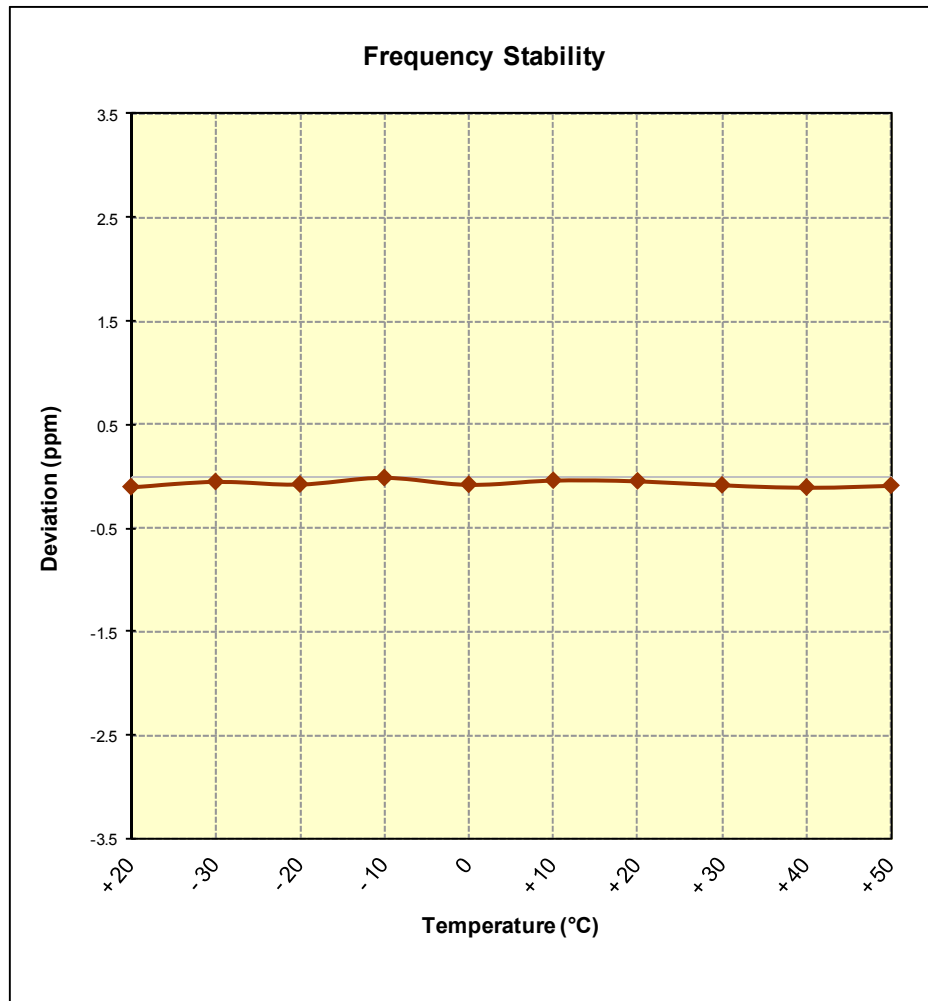


Figure 6-10. Frequency Stability Graph (Band 2)

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7.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMG928T** complies with all the requirements of Parts 22, 24, & 27 of the FCC rules for LTE operation only.

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