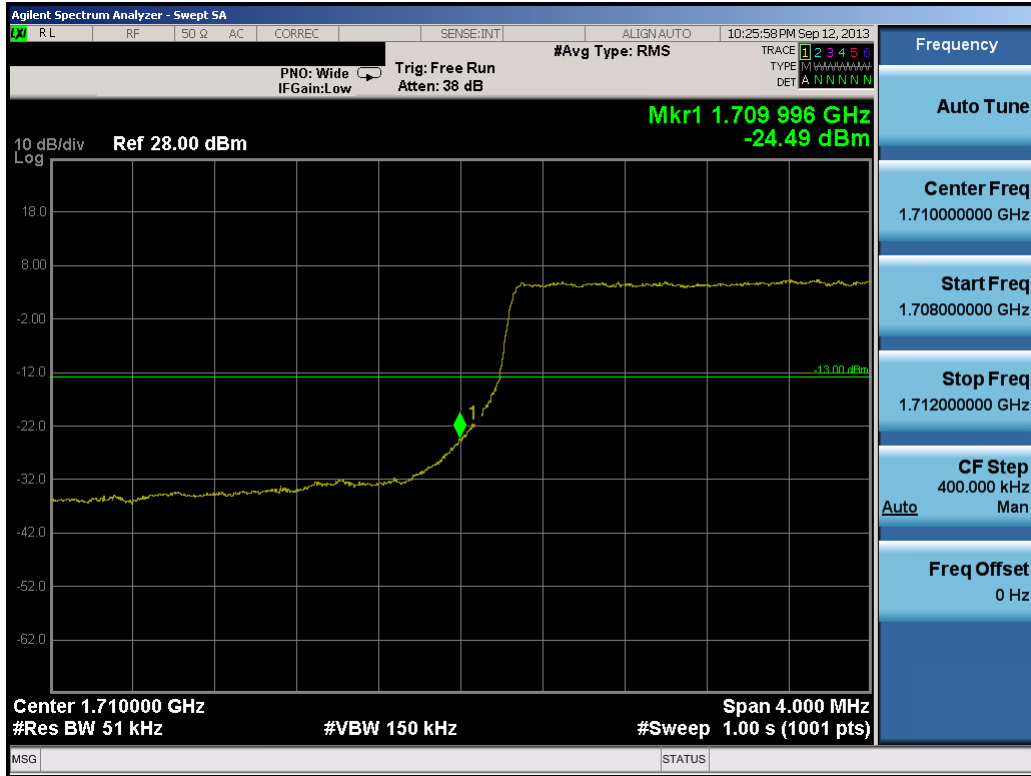


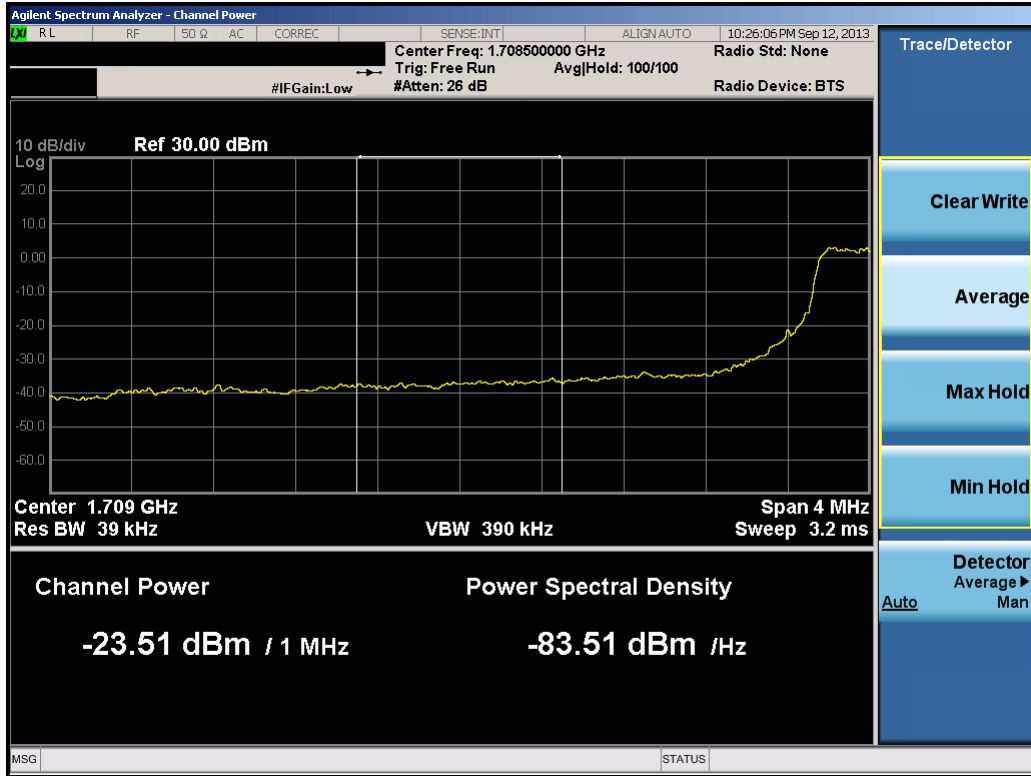
9.0 BAND 4 PLOTS OF EMISSIONS

Note: All bandwidths, RB configurations, and modulations were investigated. The worst case test results are reported below.

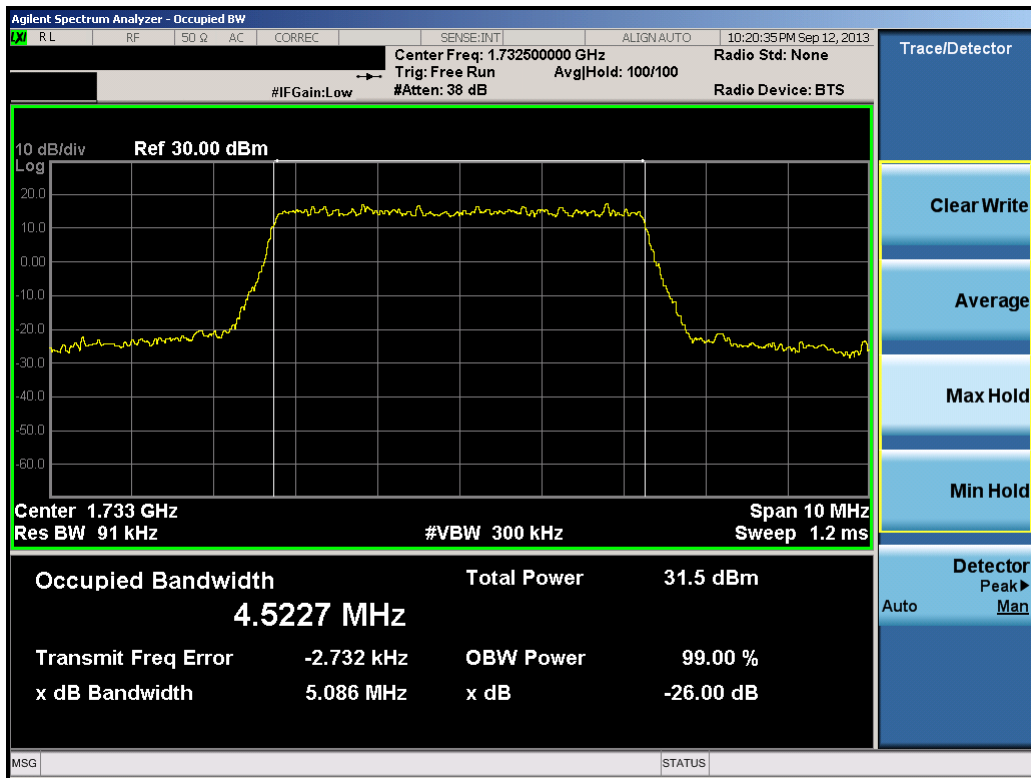


Plot 9-1. Lower Band Edge Plot (5.0MHz QPSK – RB Size 25)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 59 of 117

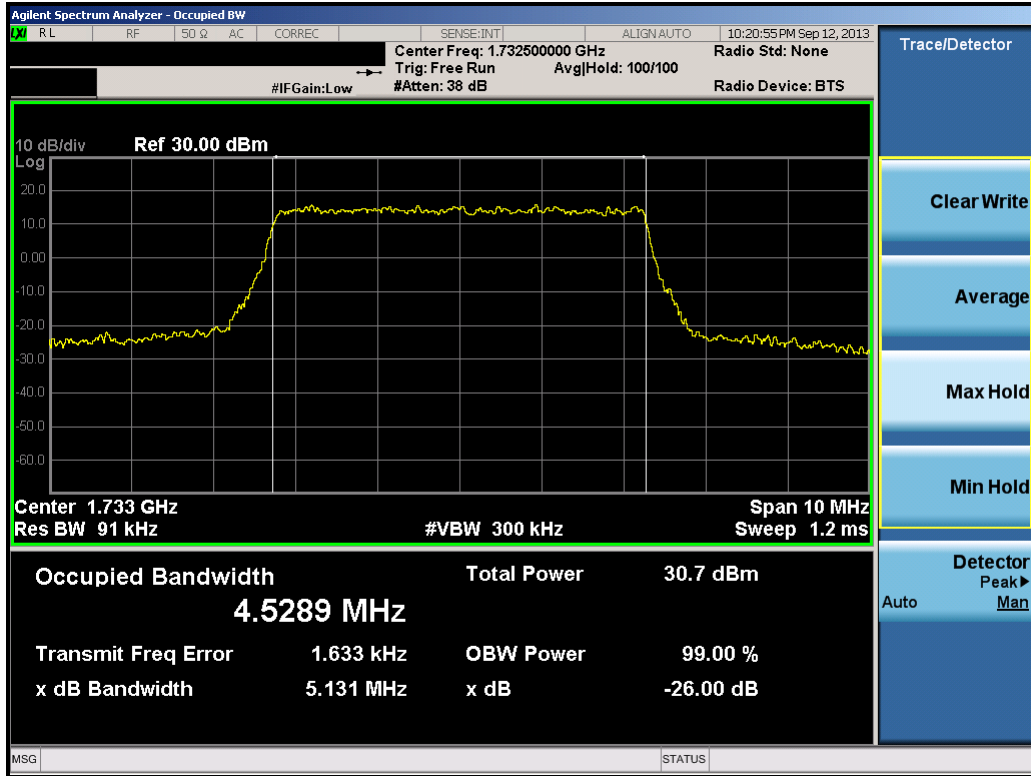


Plot 9-2. Lower Extended Band Edge Plot (5.0MHz QPSK – RB Size 25)

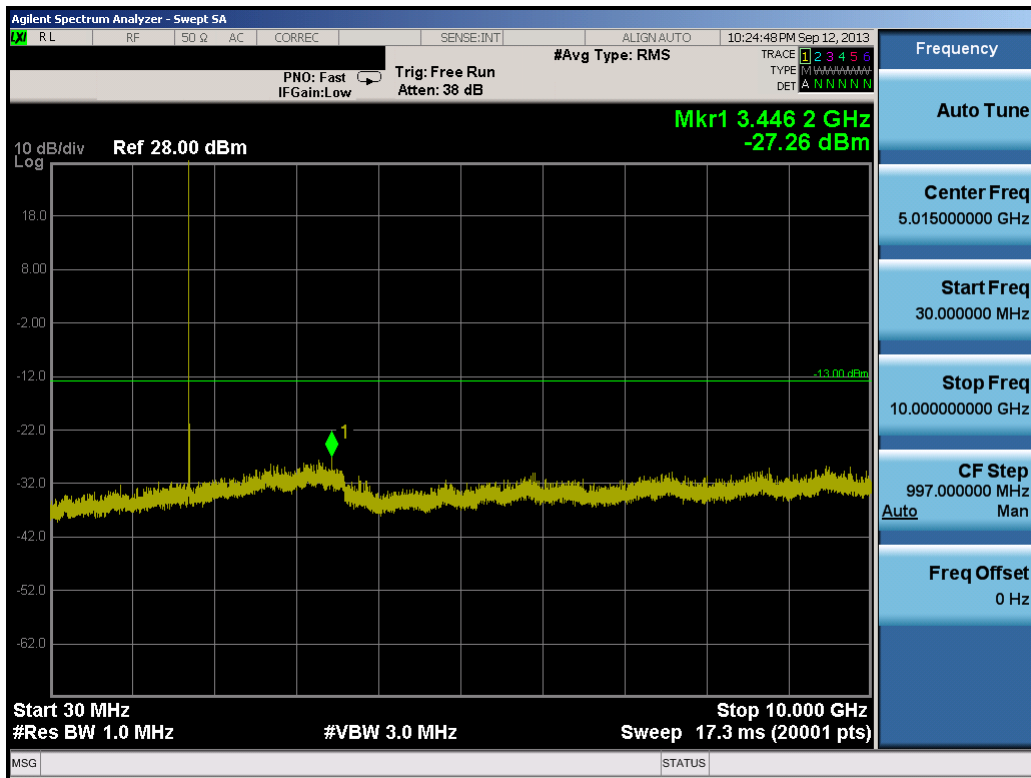


Plot 9-3. Occupied Bandwidth Plot (5.0MHz QPSK – RB Size 25)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 60 of 117

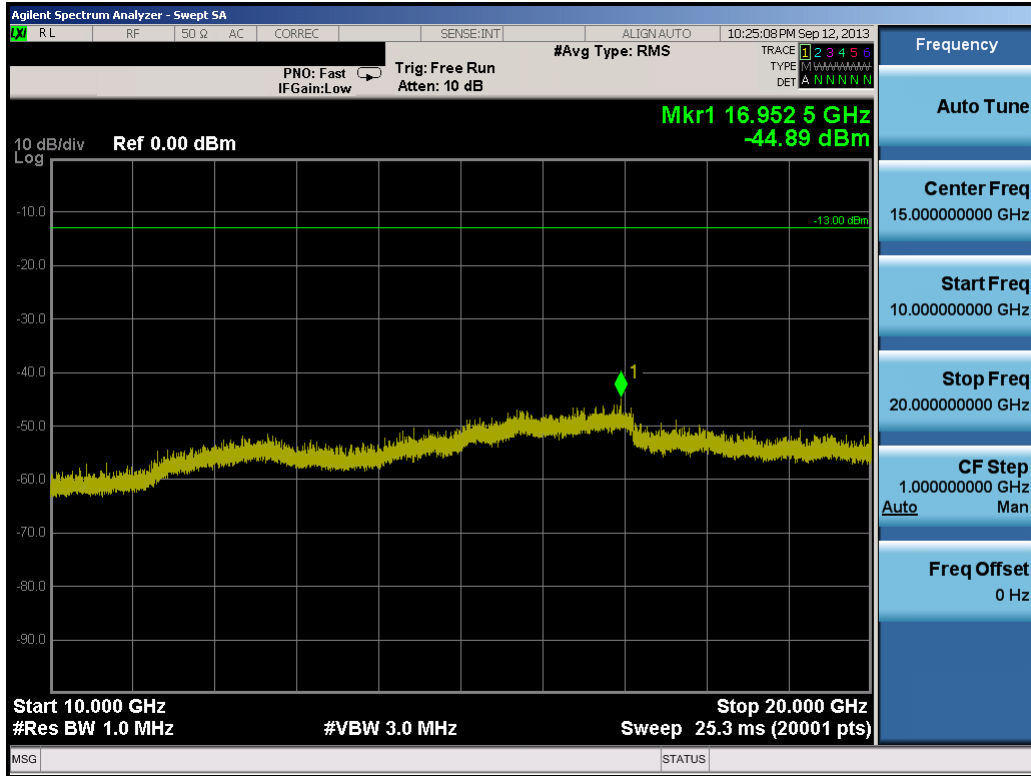


Plot 9-4. Occupied Bandwidth Plot (5.0MHz 16-QAM – RB Size 25)

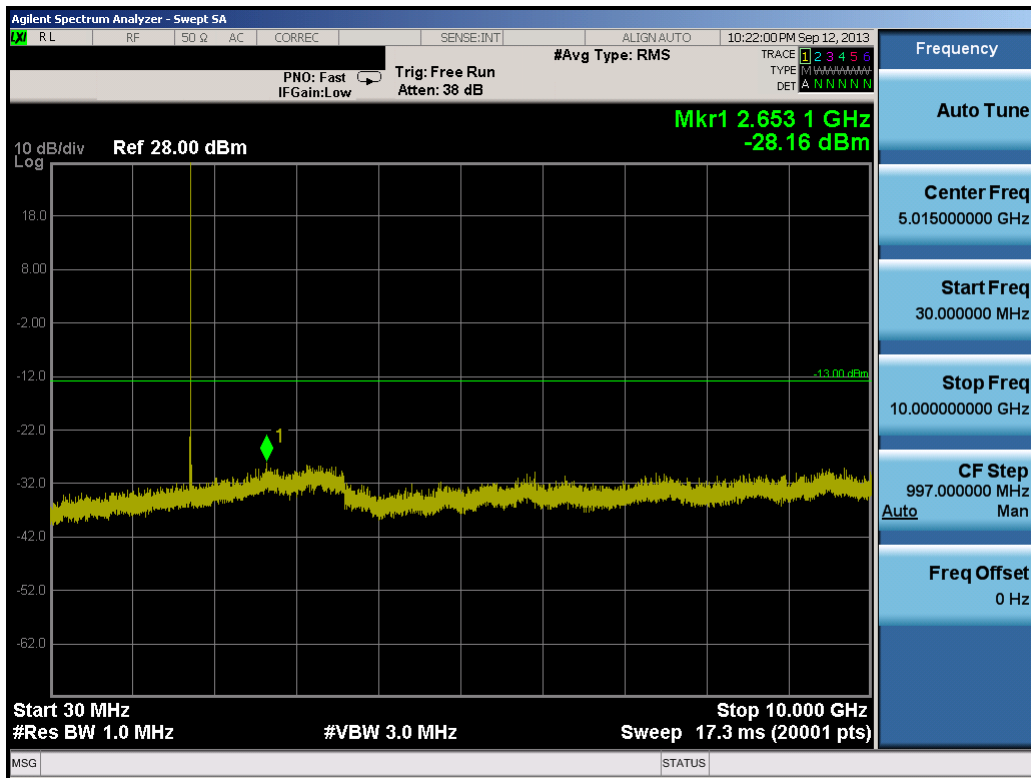


Plot 9-5. Conducted Spurious Plot (5.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 61 of 117

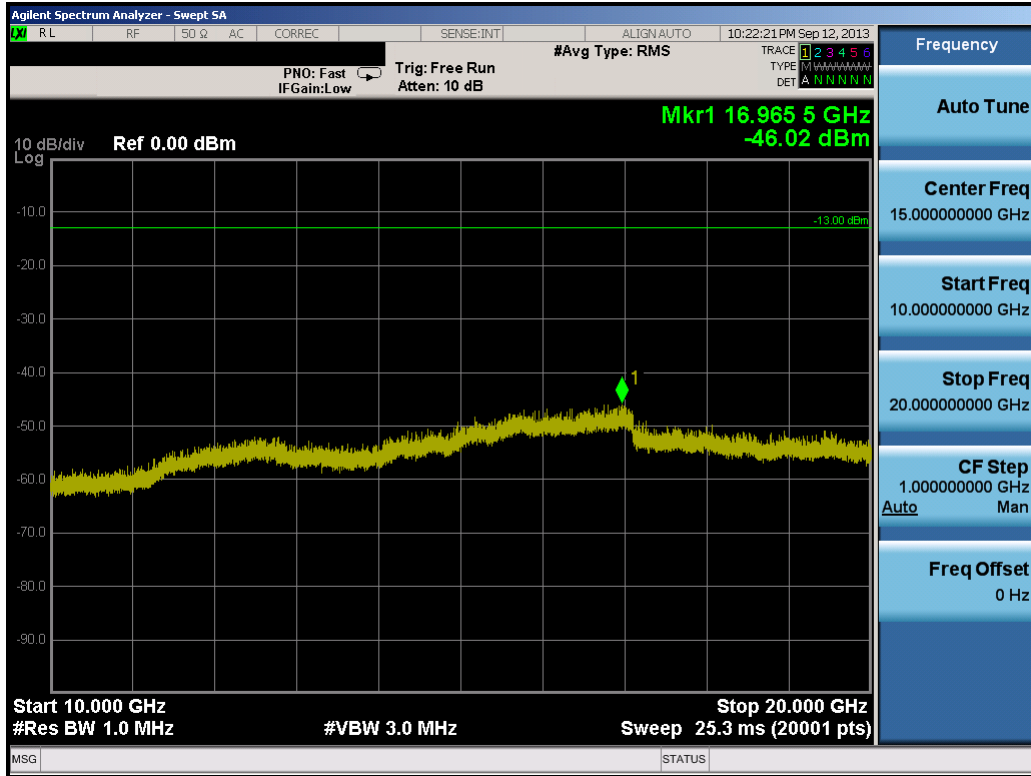


Plot 9-6. Conducted Spurious Plot (5.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

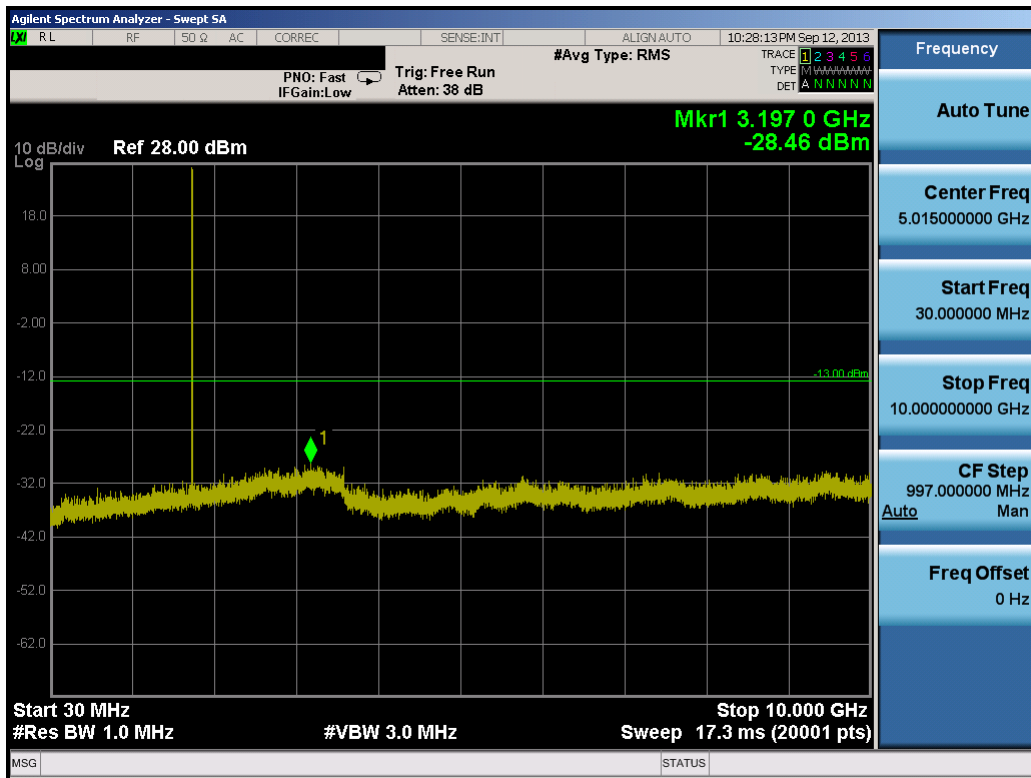


Plot 9-7. Conducted Spurious Plot (5.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 62 of 117

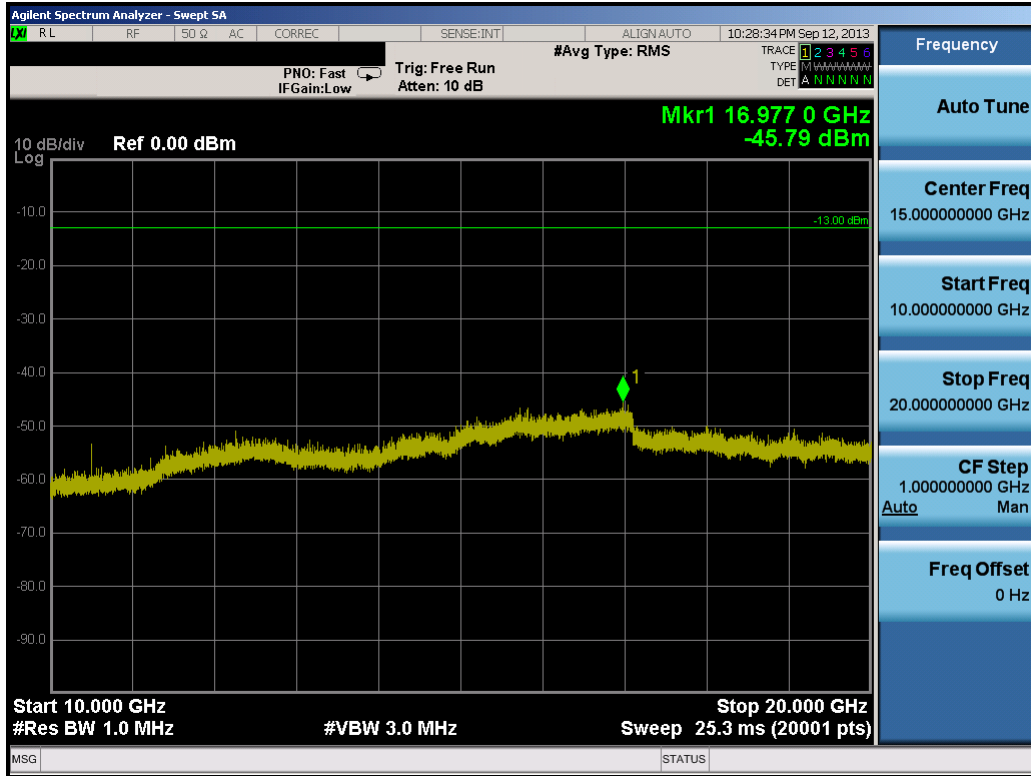


Plot 9-8. Conducted Spurious Plot (5.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

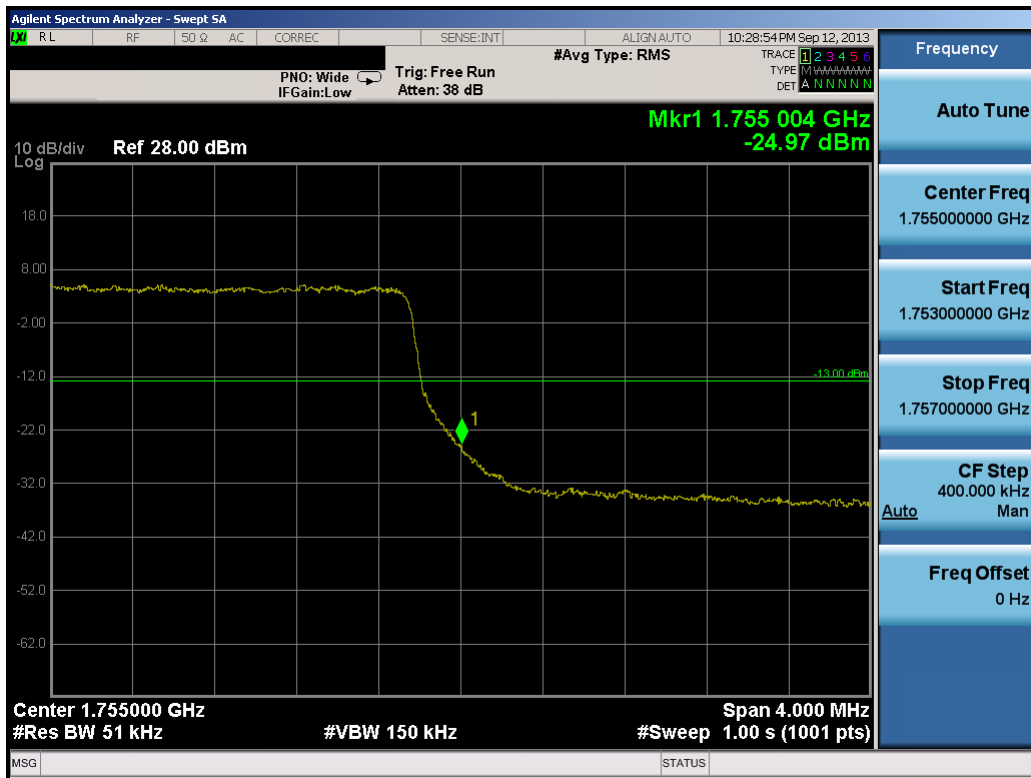


Plot 9-9. Conducted Spurious Plot (5.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 63 of 117

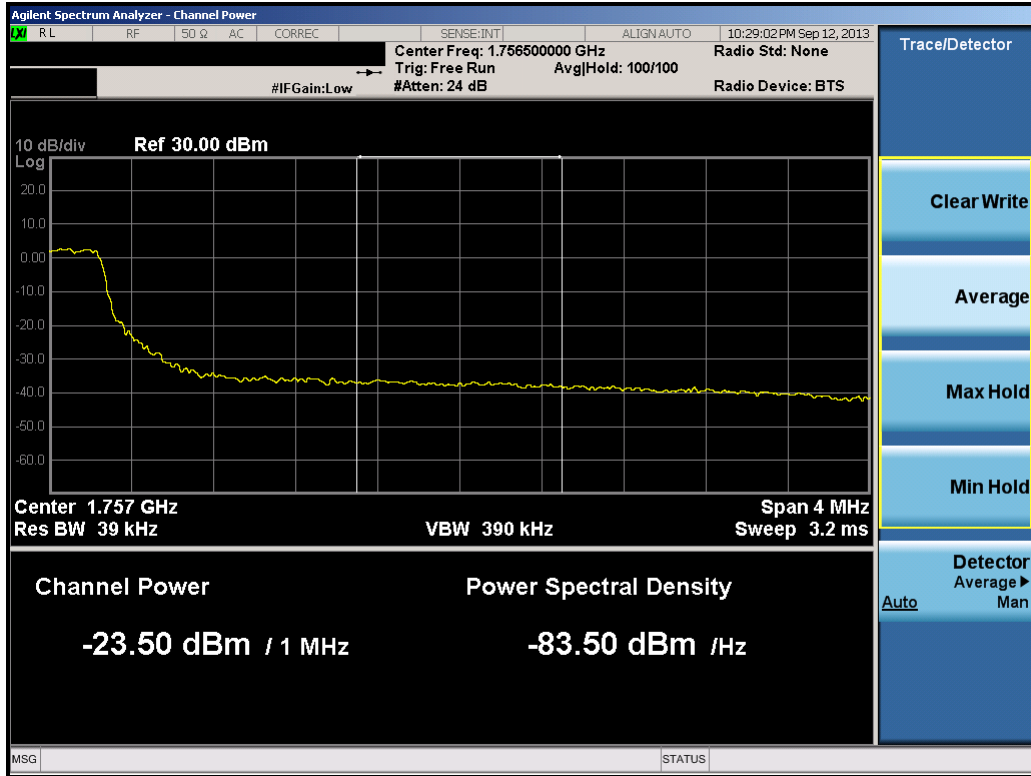


Plot 9-10. Conducted Spurious Plot (5.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

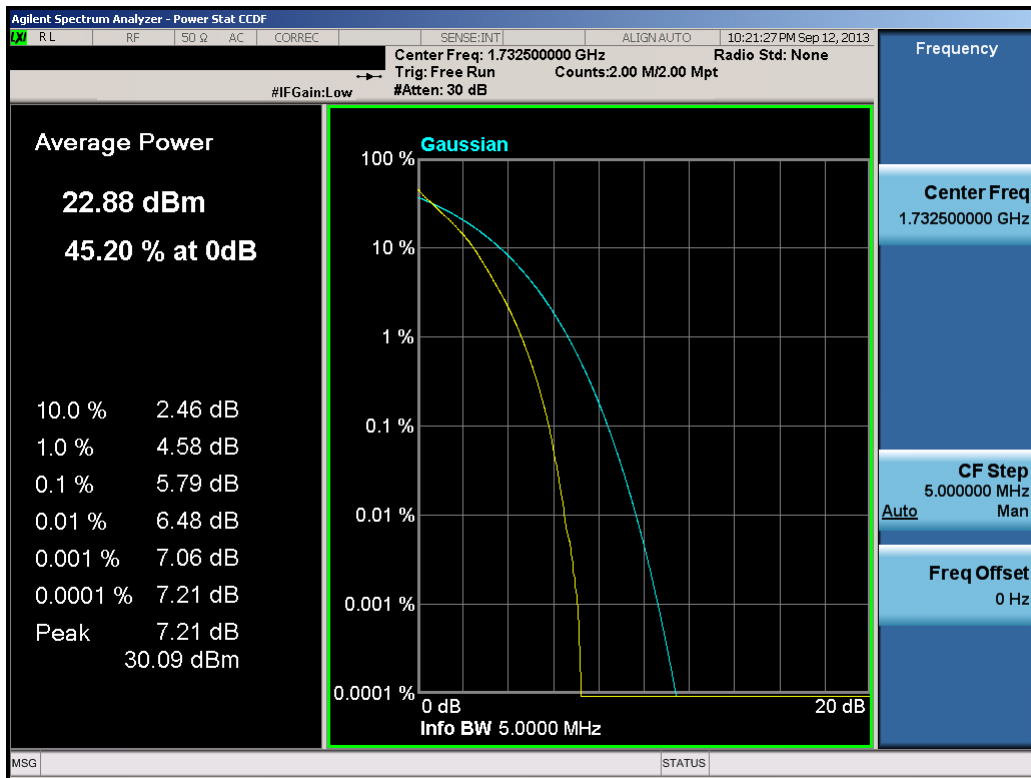


Plot 9-11. Upper Band Edge Plot (5.0MHz QPSK – RB Size 25)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 64 of 117

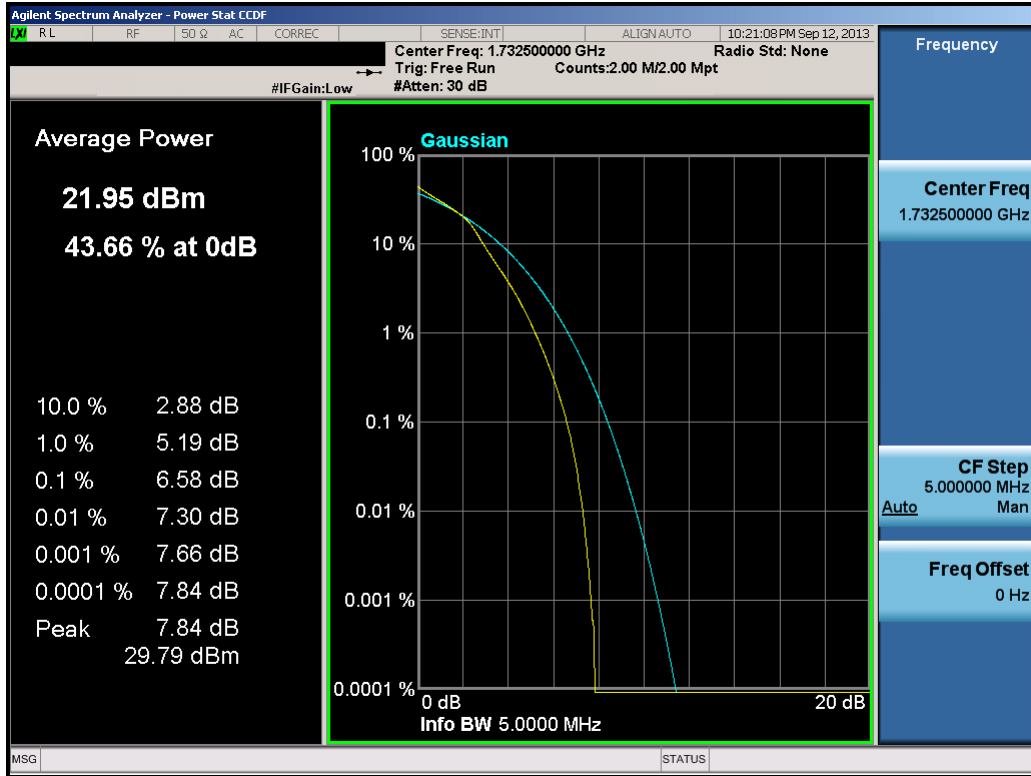


Plot 9-12. Upper Extended Band Edge Plot (5.0MHz QPSK – RB Size 25)



Plot 9-13. PAR Plot (5.0MHz QPSK – RB Size 25)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 65 of 117

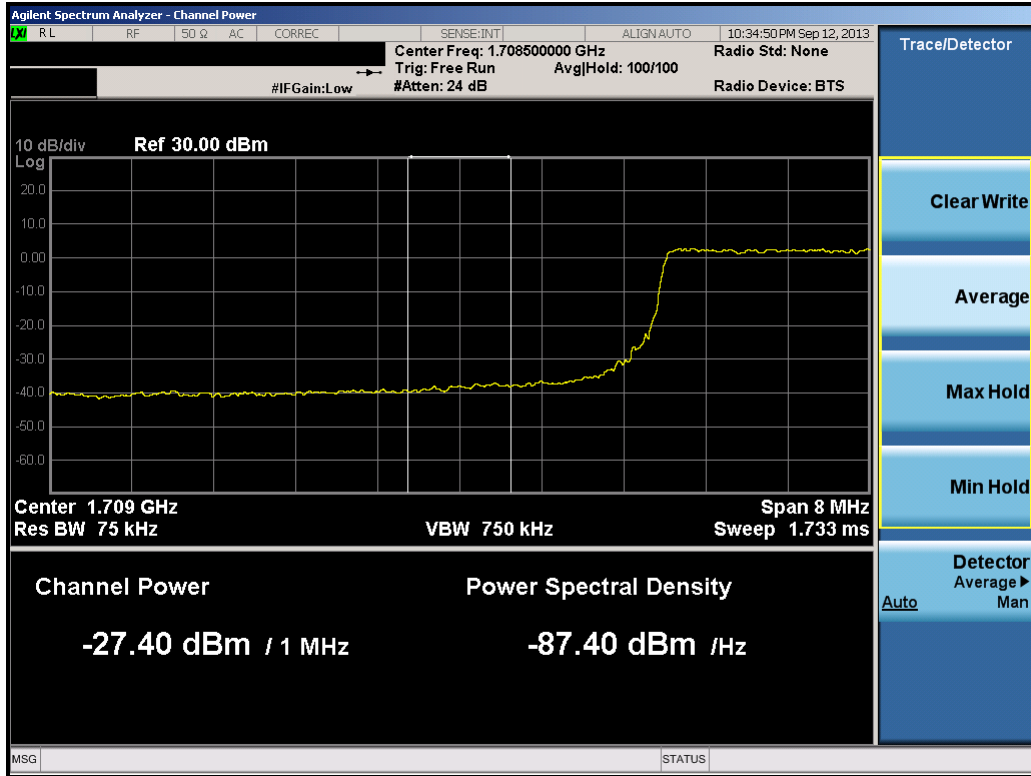


Plot 9-14. PAR Plot (5.0MHz 16-QAM – RB Size 25)

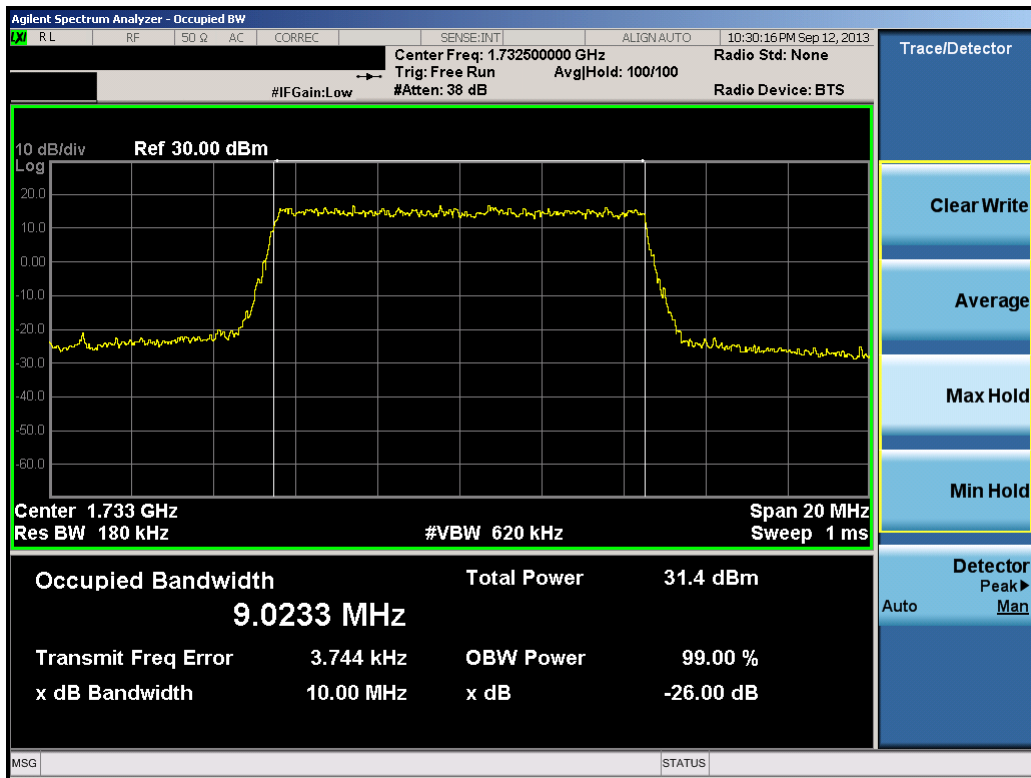


Plot 9-15. Lower Band Edge Plot (10.0MHz QPSK – RB Size 50)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 66 of 117

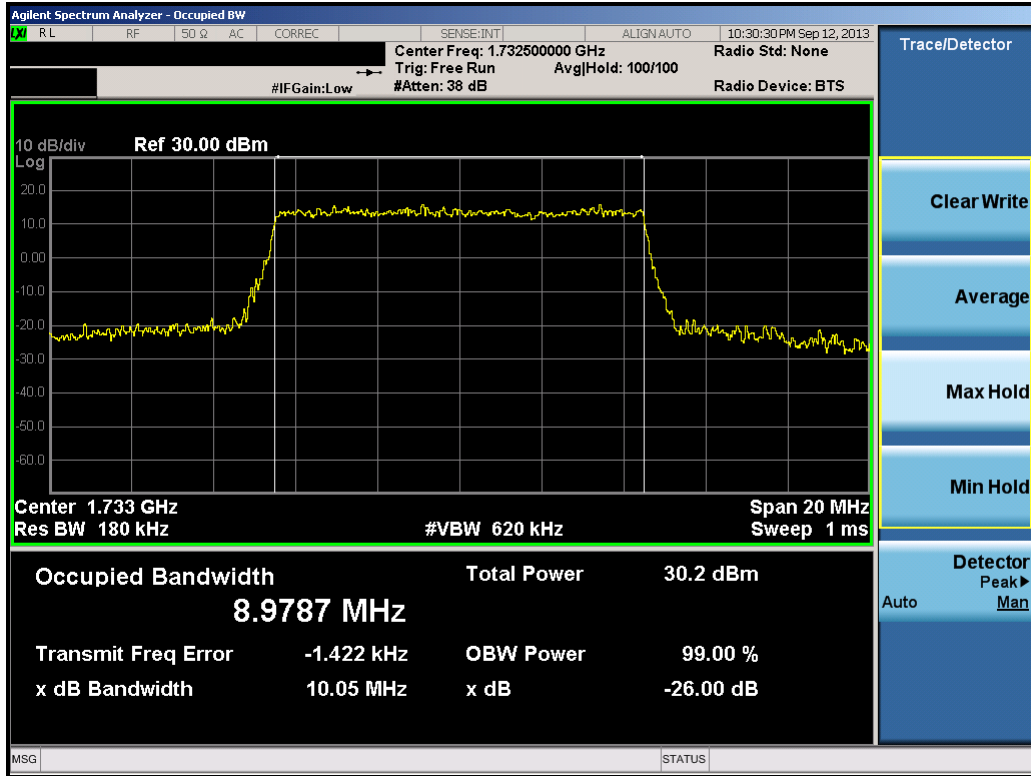


Plot 9-16. Lower Extended Band Edge Plot (10.0MHz QPSK – RB Size 50)

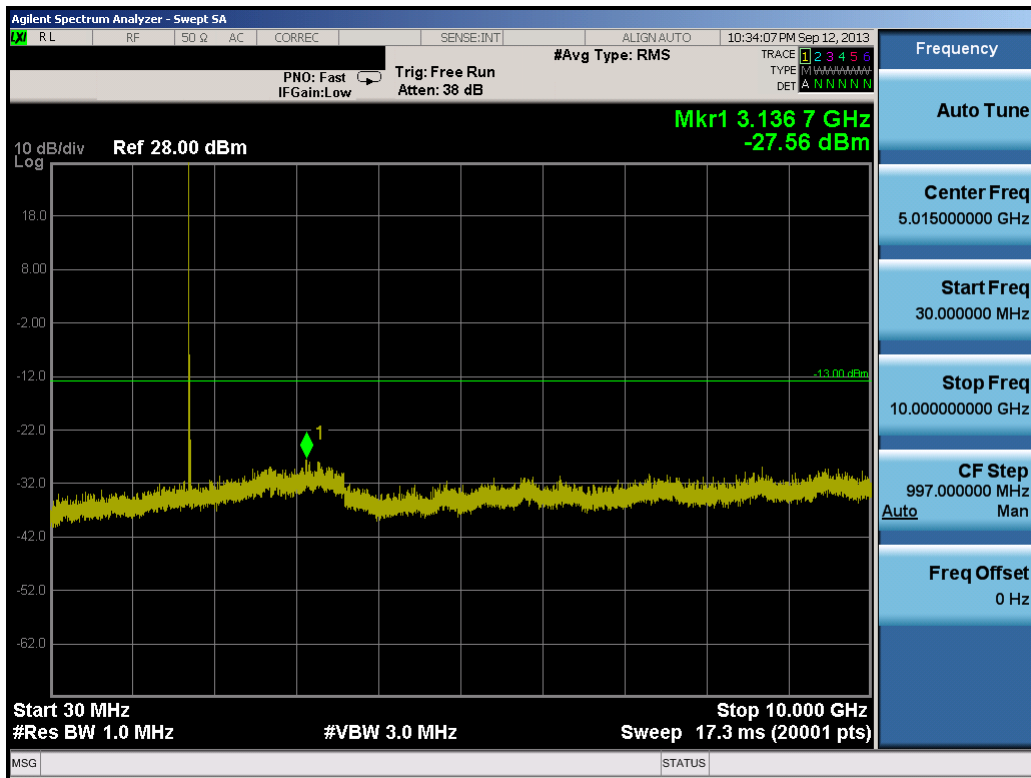


Plot 9-17. Occupied Bandwidth Plot (10.0MHz QPSK – RB Size 50)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 67 of 117

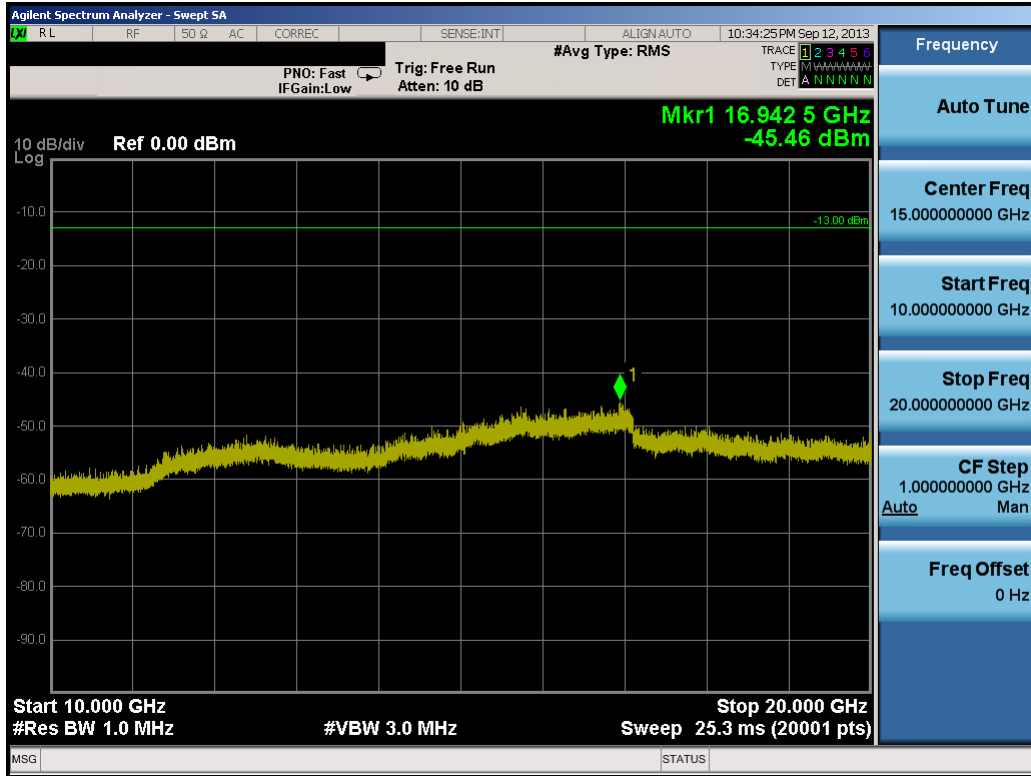


Plot 9-18. Occupied Bandwidth Plot (10.0MHz 16-QAM – RB Size 50)

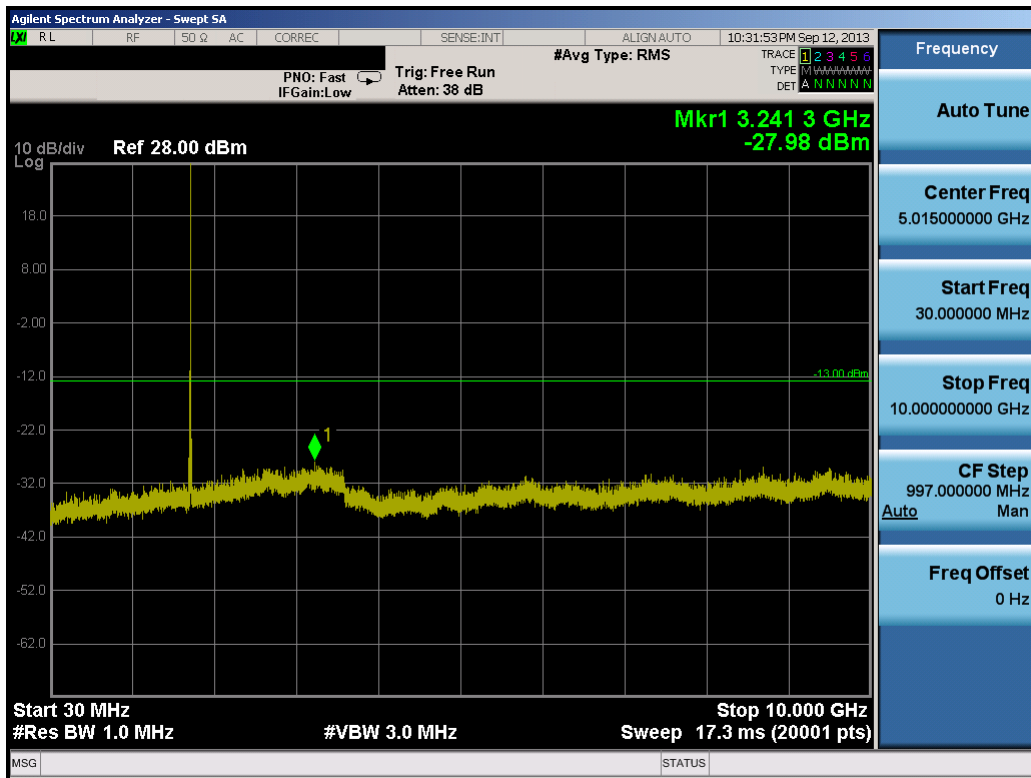


Plot 9-19. Conducted Spurious Plot (10.0MHz QPSK – RB Size 1, RB Offset 0– Low Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 68 of 117

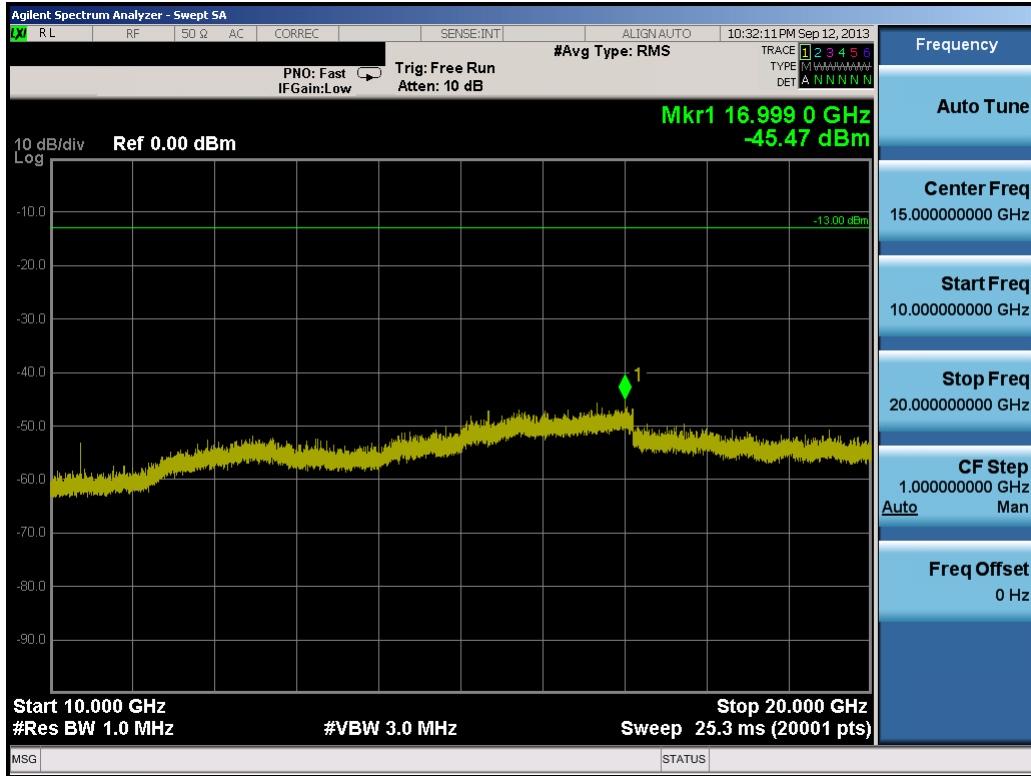


Plot 9-20. Conducted Spurious Plot (10.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

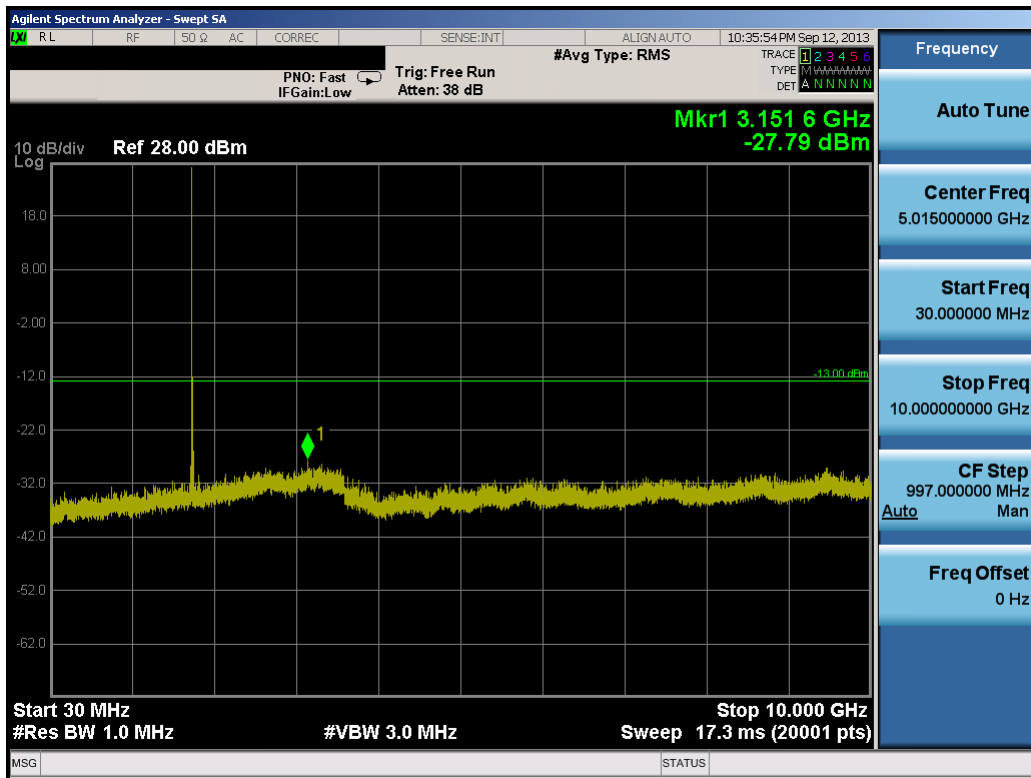


Plot 9-21. Conducted Spurious Plot (10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 69 of 117

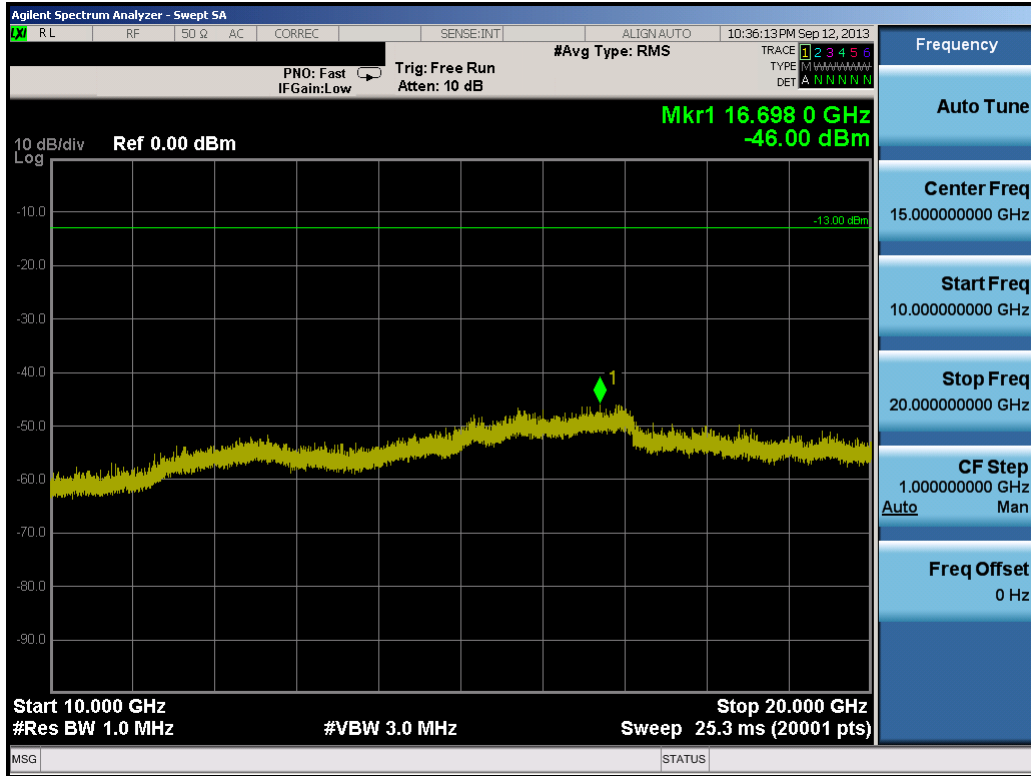


Plot 9-22. Conducted Spurious Plot (10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

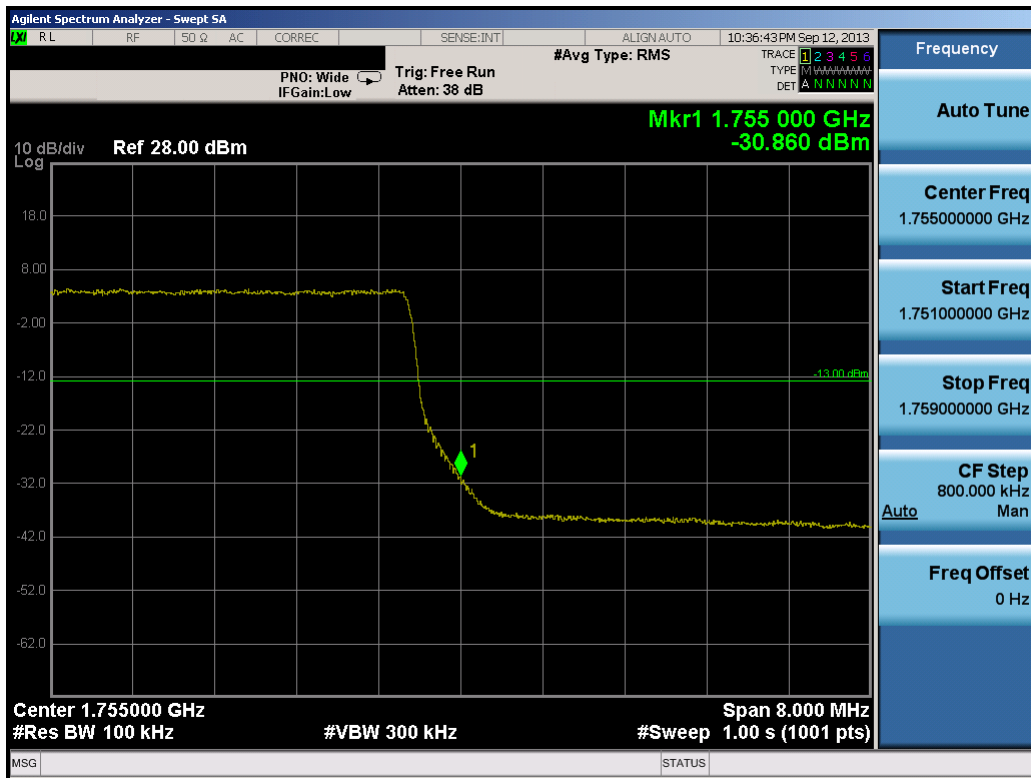


Plot 9-23. Conducted Spurious Plot (10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 70 of 117

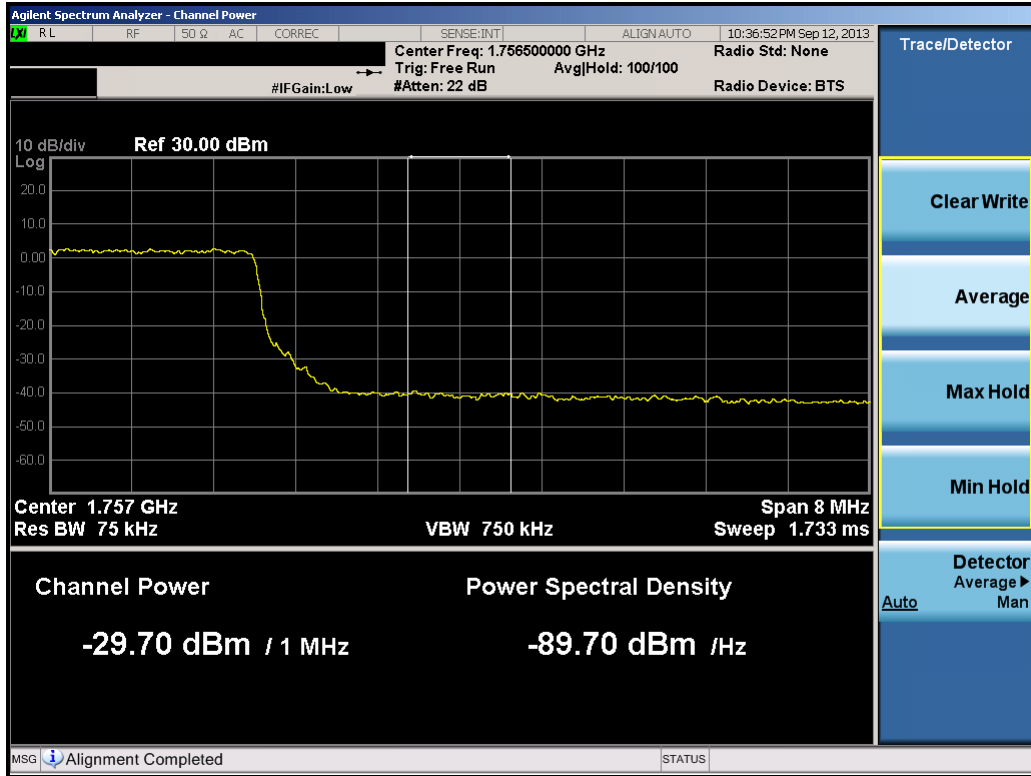


Plot 9-24. Conducted Spurious Plot (10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

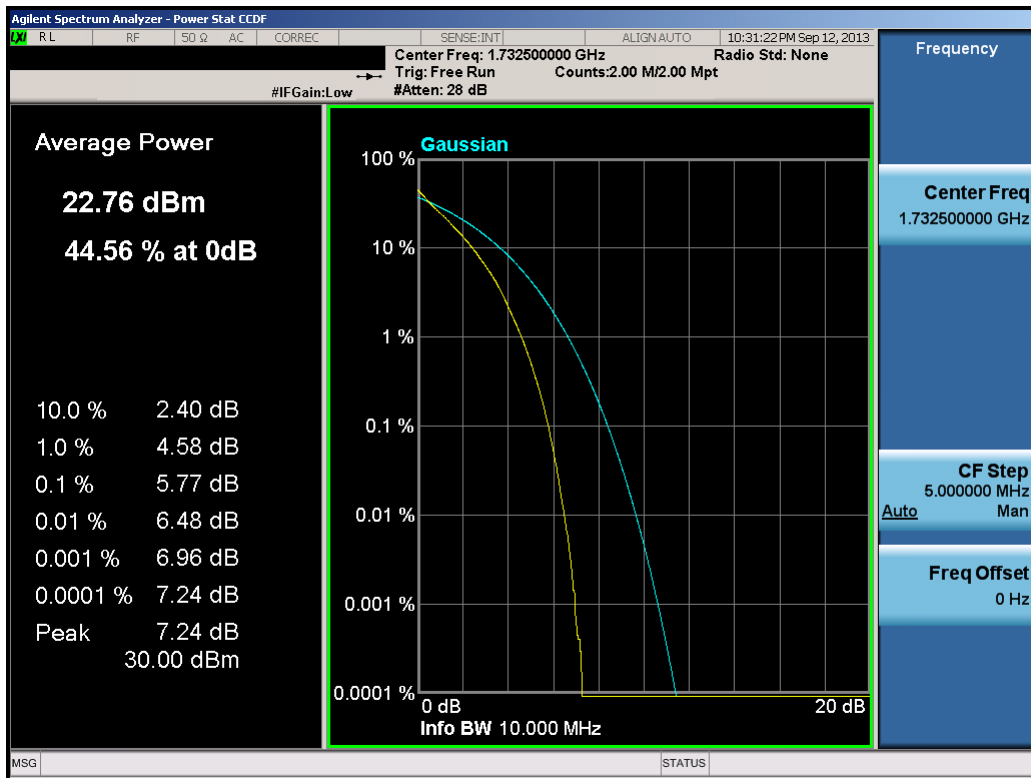


Plot 9-25. Upper Band Edge Plot (10.0MHz QPSK – RB Size 50)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 71 of 117

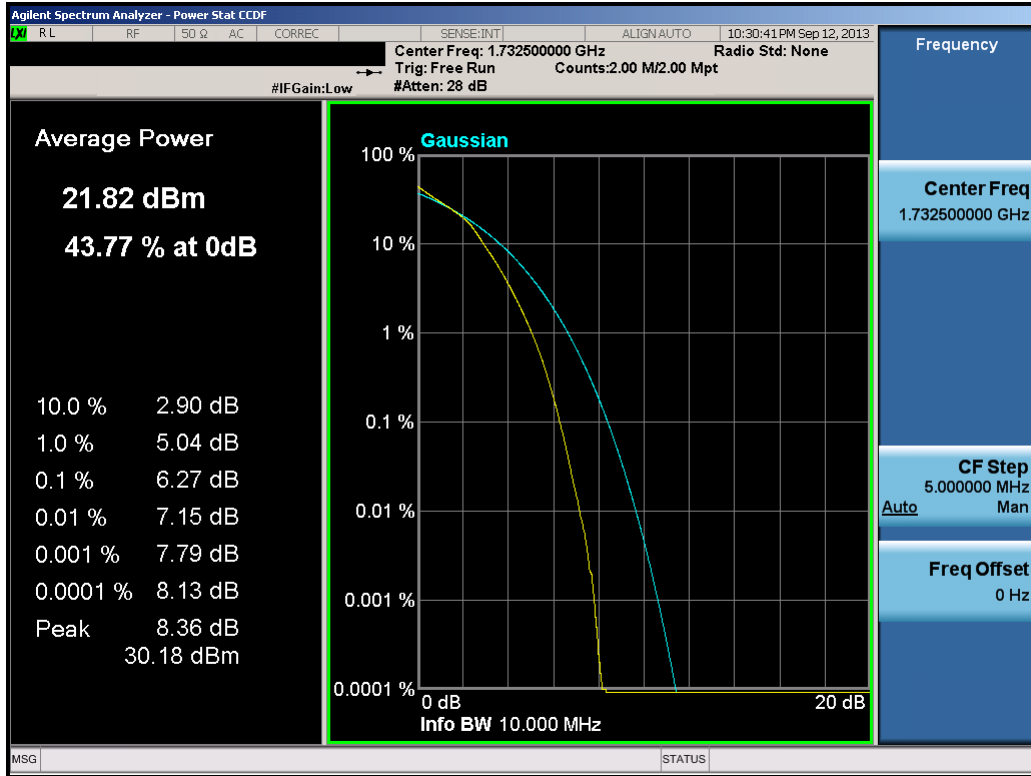


Plot 9-26. Upper Extended Band Edge Plot (10.0MHz QPSK – RB Size 50)

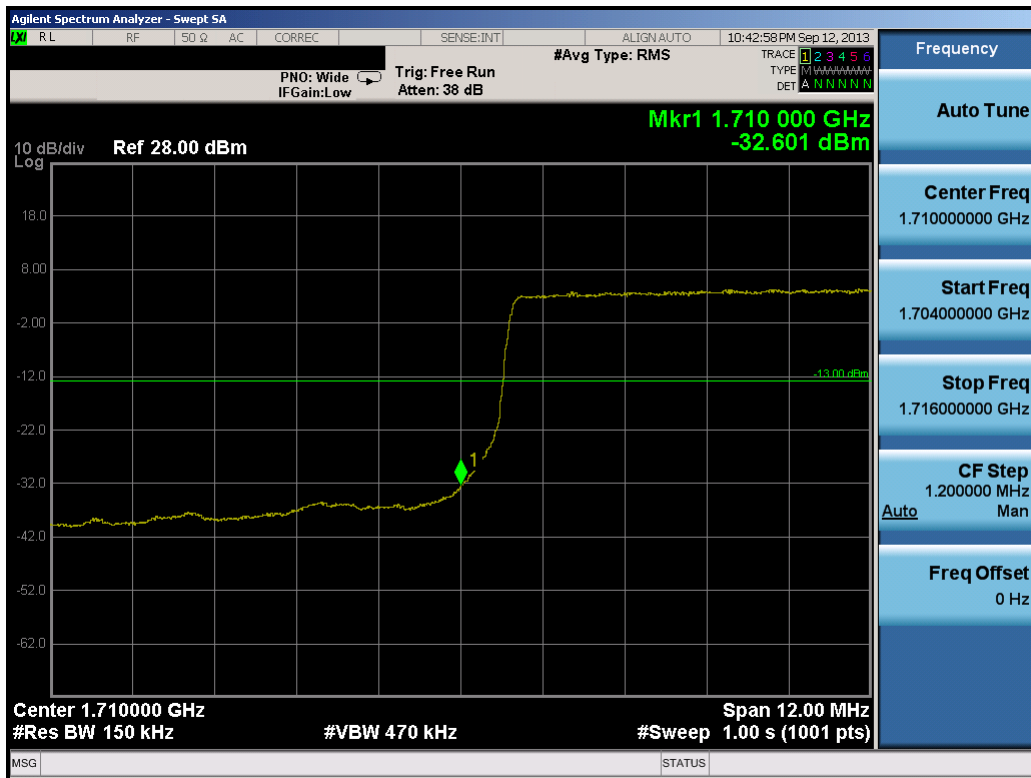


Plot 9-27. PAR Plot (10.0MHz QPSK – RB Size 50)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 72 of 117

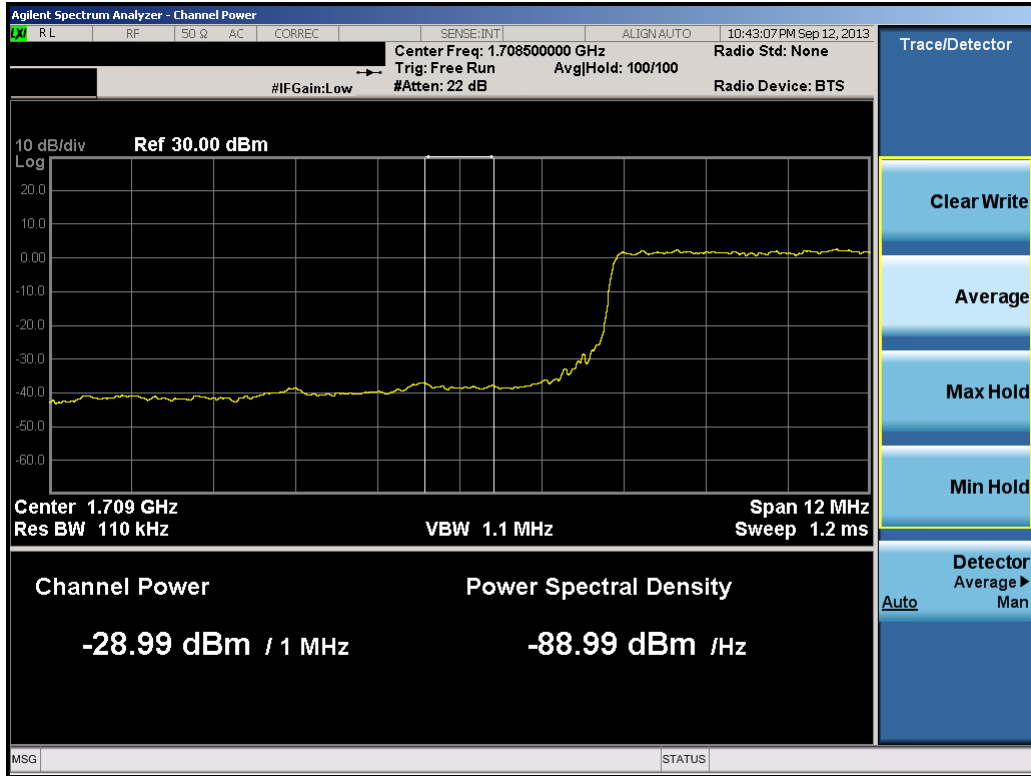


Plot 9-28. PAR Plot (10.0MHz 16-QAM – RB Size 50)

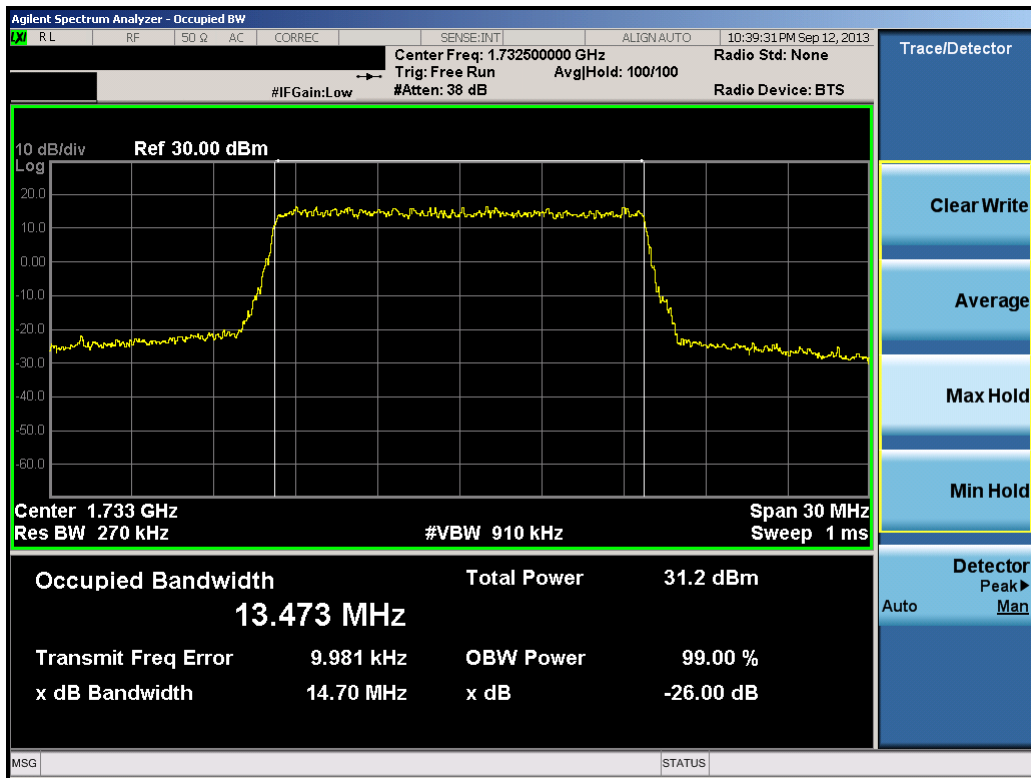


Plot 9-29. Lower Band Edge Plot (15.0MHz QPSK – RB Size 75)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 73 of 117

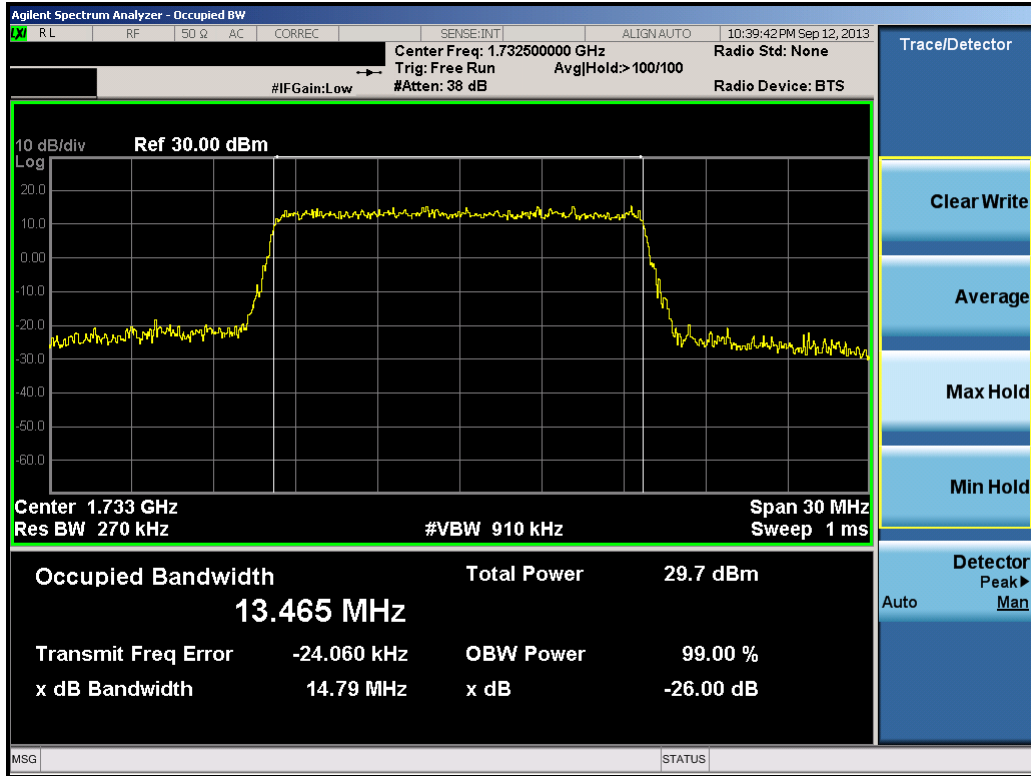


Plot 9-30. Lower Extended Band Edge Plot (15.0MHz QPSK – RB Size 75)

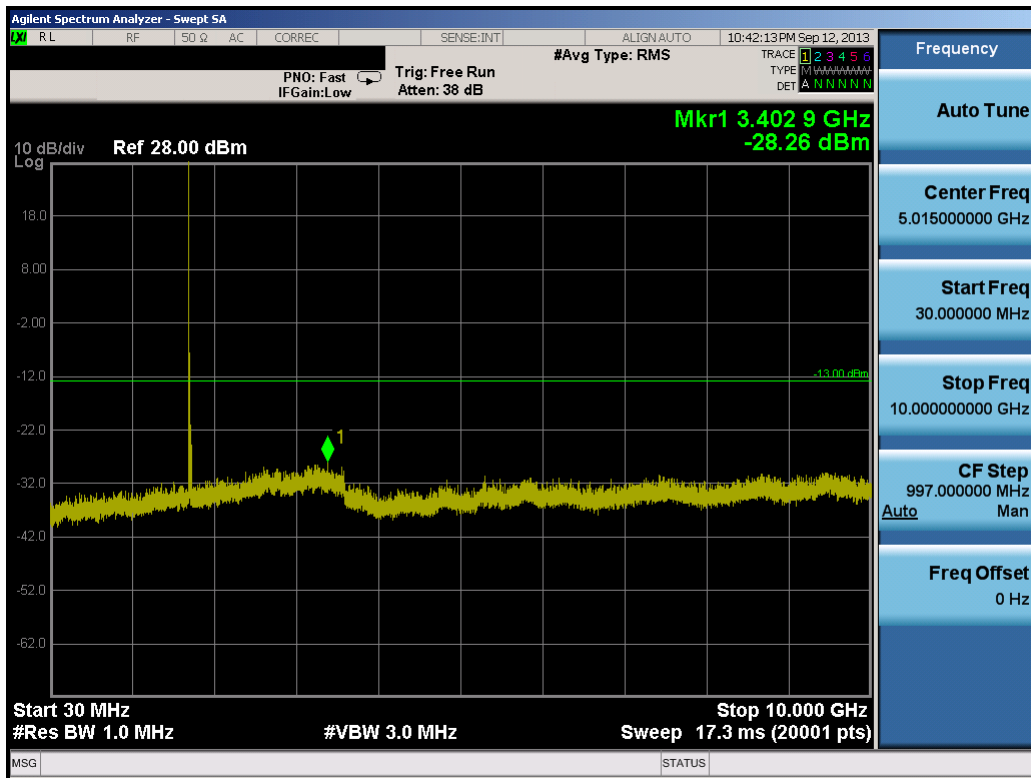


Plot 9-31. Occupied Bandwidth Plot (15.0MHz QPSK – RB Size 75)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 74 of 117

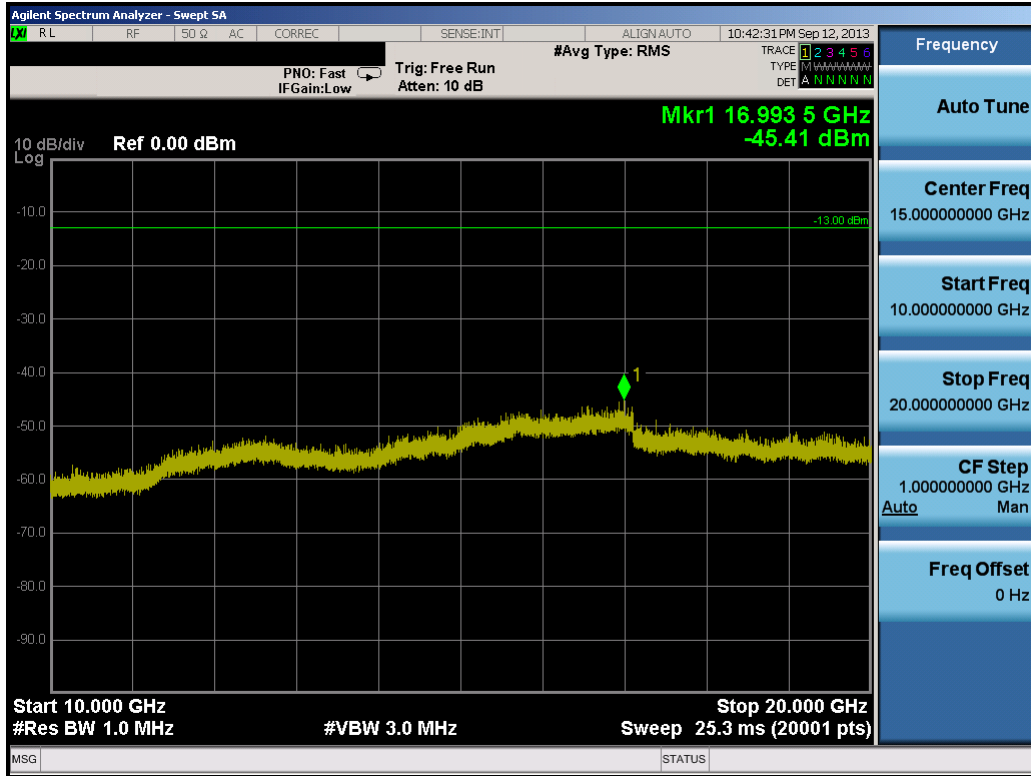


Plot 9-32. Occupied Bandwidth Plot (15.0MHz 16-QAM – RB Size 75)

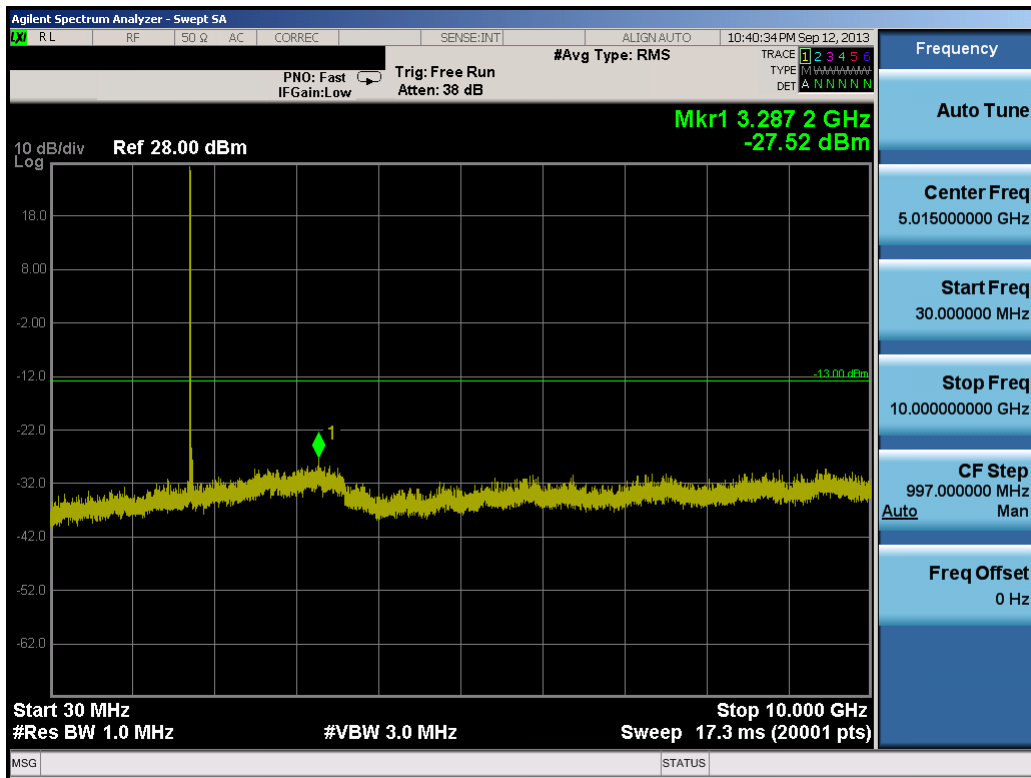


Plot 9-33. Conducted Spurious Plot (15.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 75 of 117

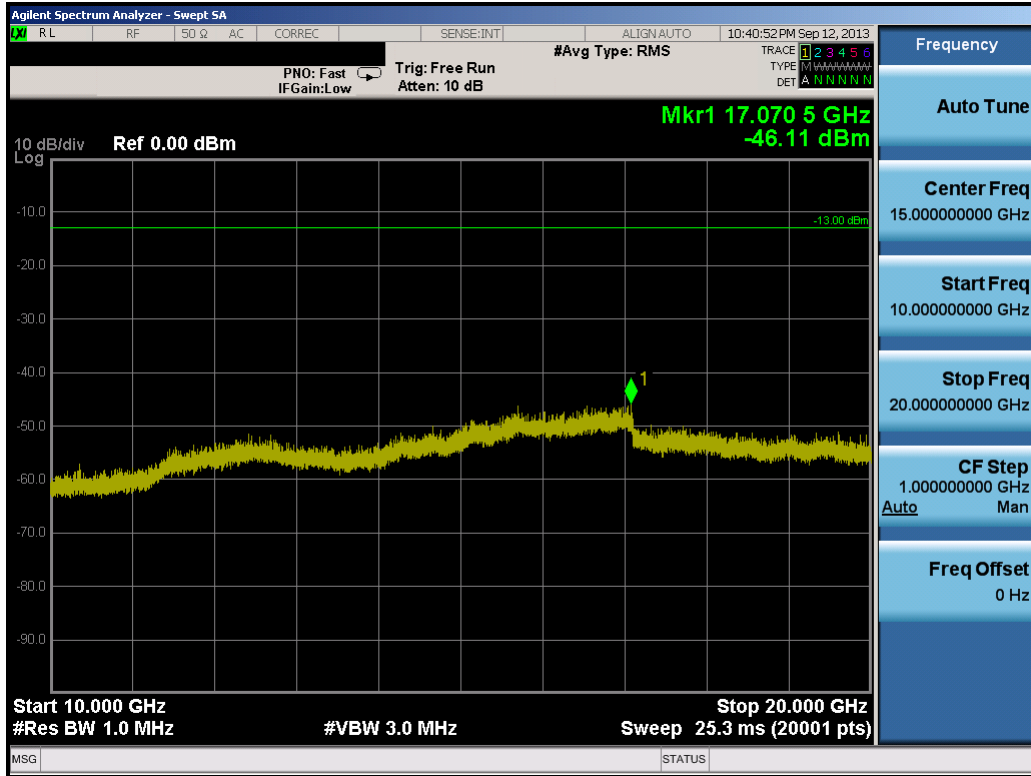


Plot 9-34. Conducted Spurious Plot (15.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

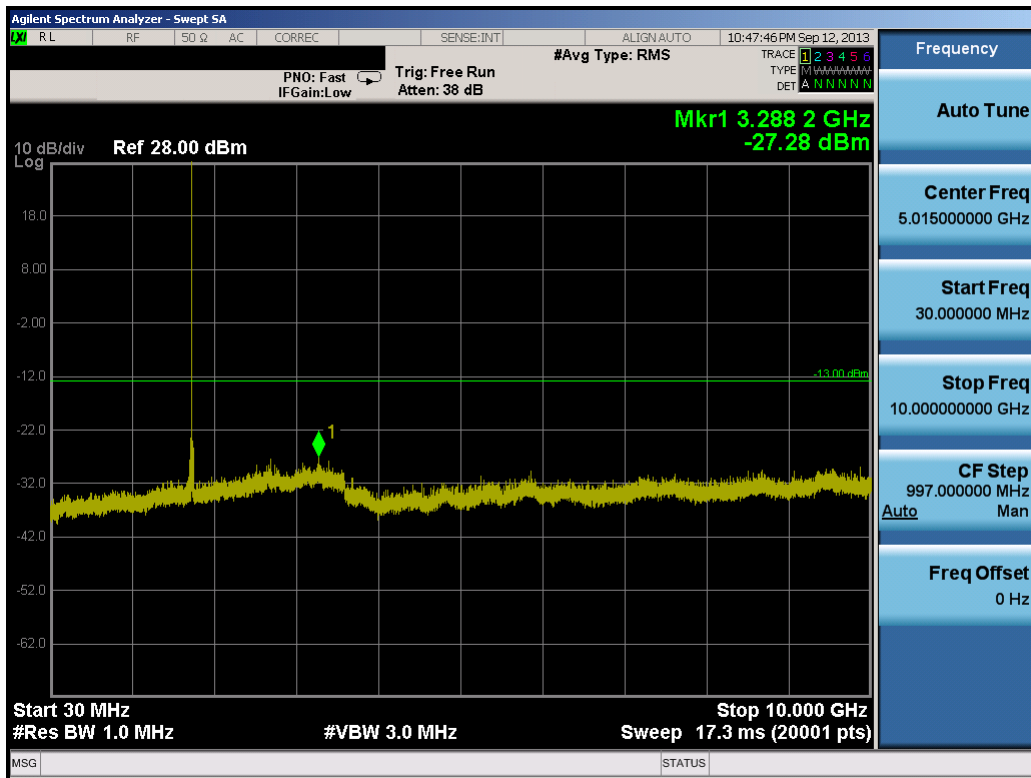


Plot 9-35. Conducted Spurious Plot (15.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 76 of 117

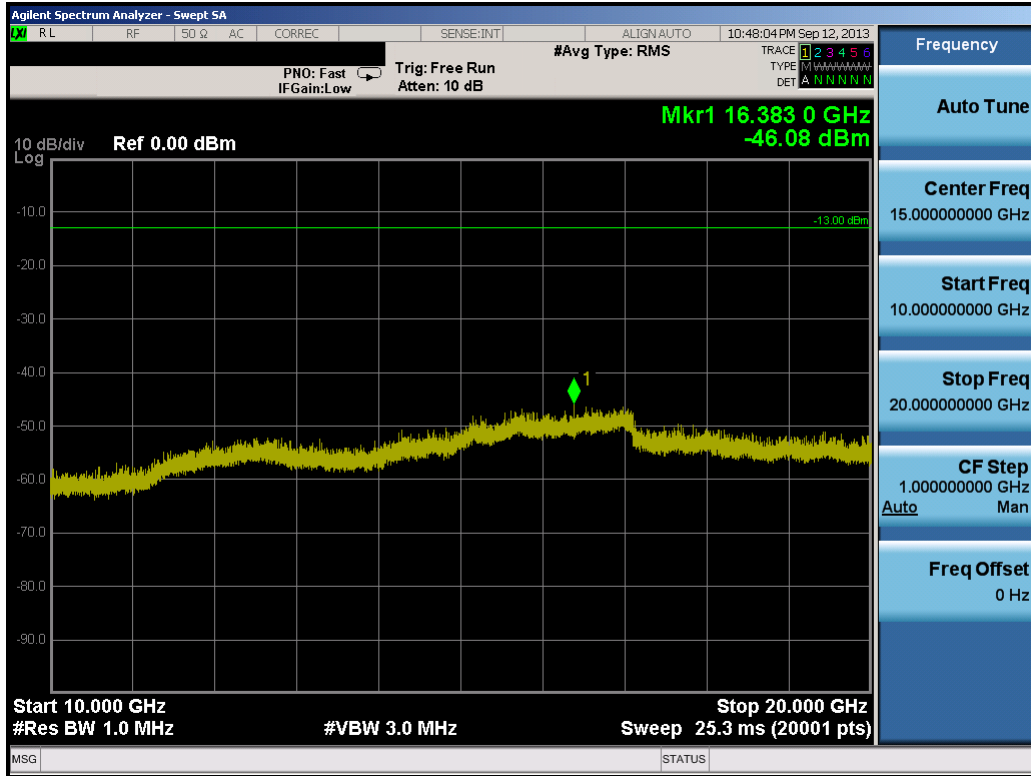


Plot 9-36. Conducted Spurious Plot (15.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)



Plot 9-37. Conducted Spurious Plot (15.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 77 of 117

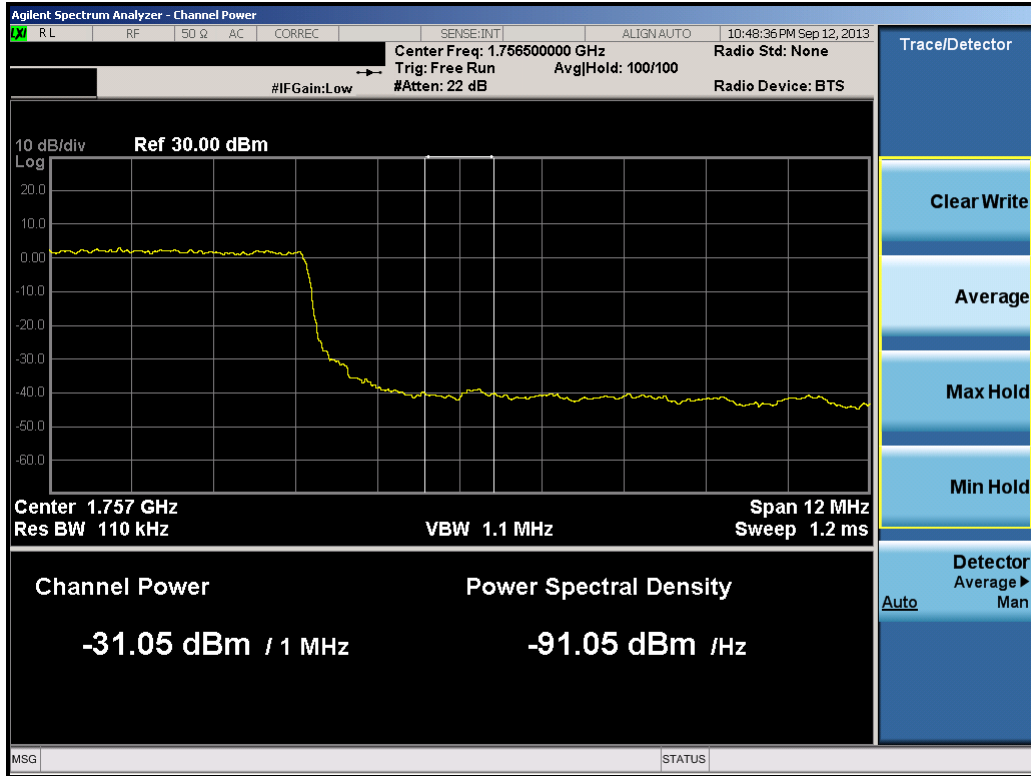


Plot 9-38. Conducted Spurious Plot (15.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

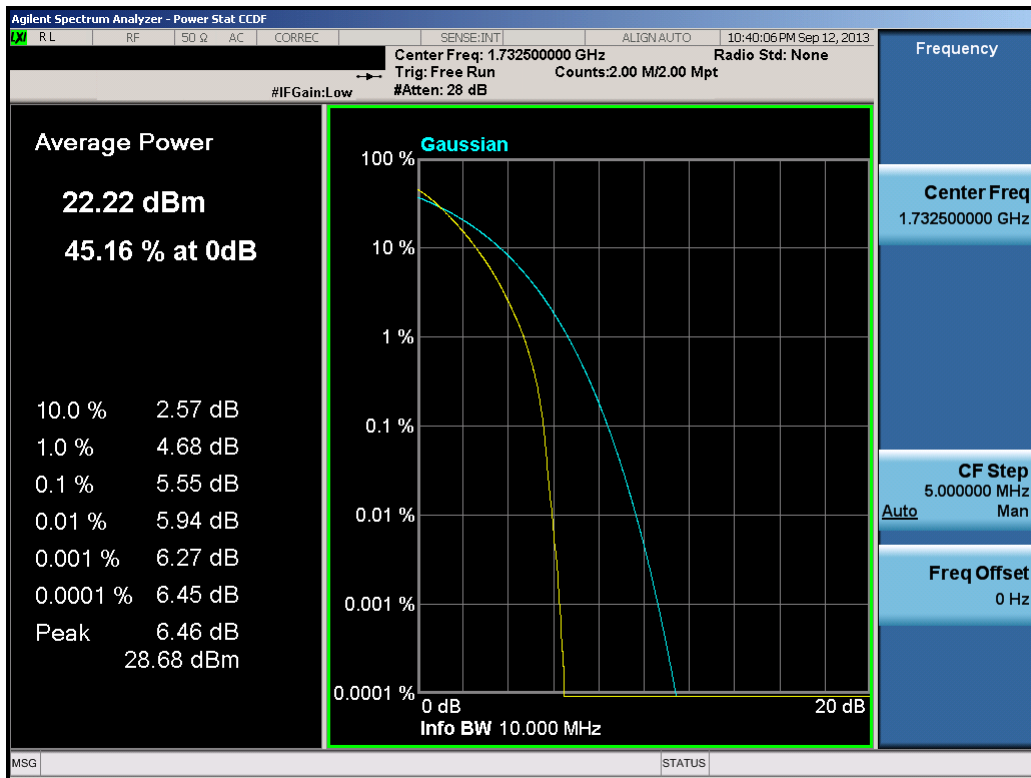


Plot 9-39. Upper Band Edge Plot (15.0MHz QPSK – RB Size 75)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 78 of 117

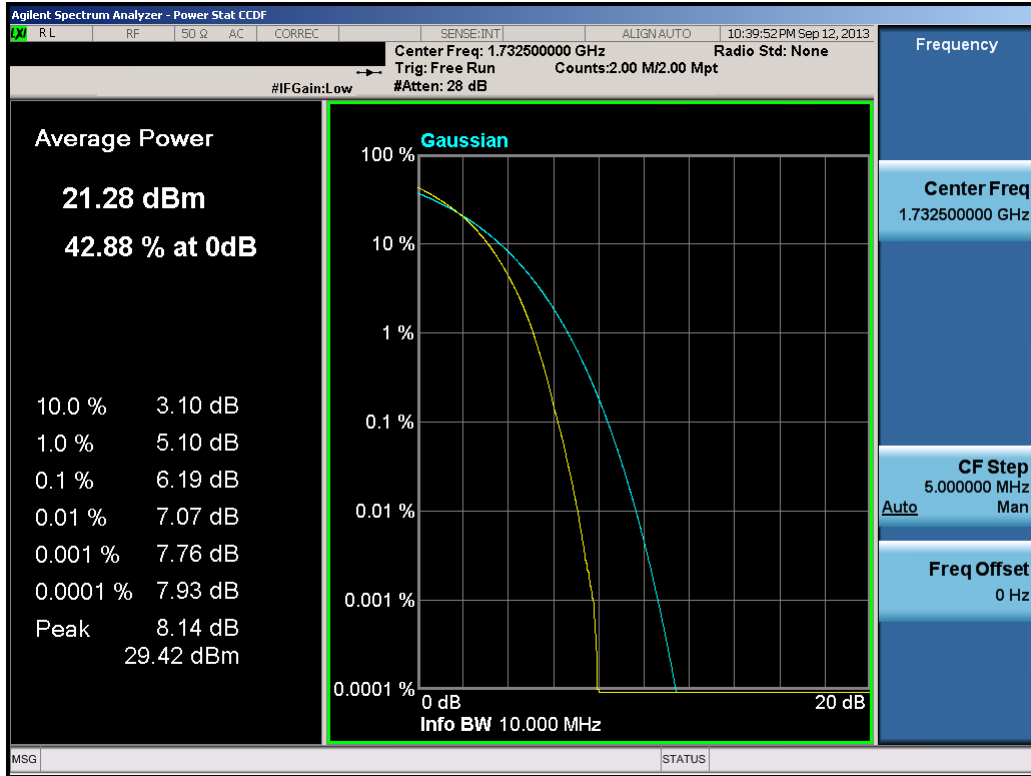


Plot 9-40. Upper Extended Band Edge Plot (15.0MHz QPSK – RB Size 75)

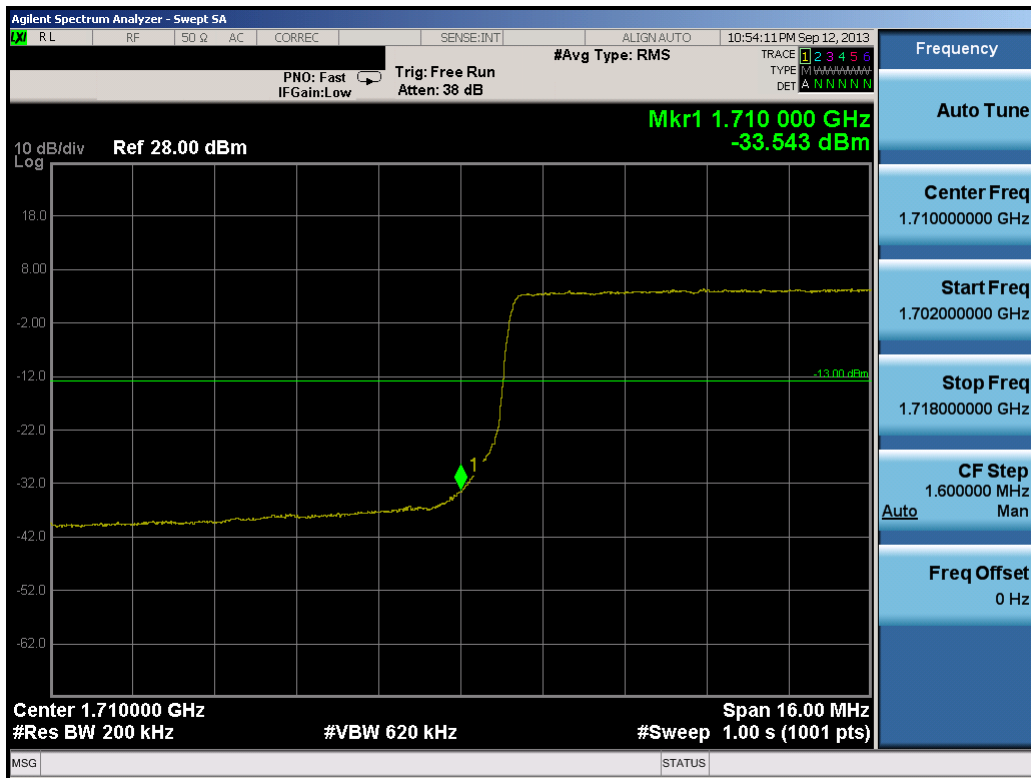


Plot 9-41. PAR Plot (15.0MHz QPSK – RB Size 75)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 79 of 117

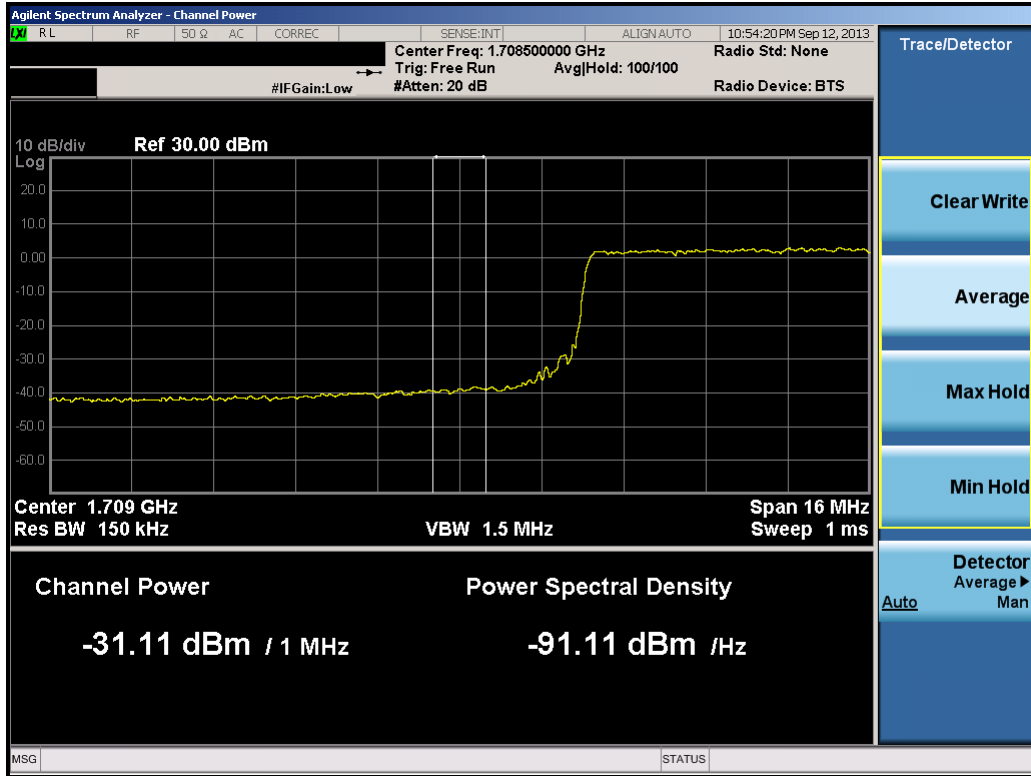


Plot 9-42. PAR Plot (15.0MHz 16-QAM – RB Size 75)

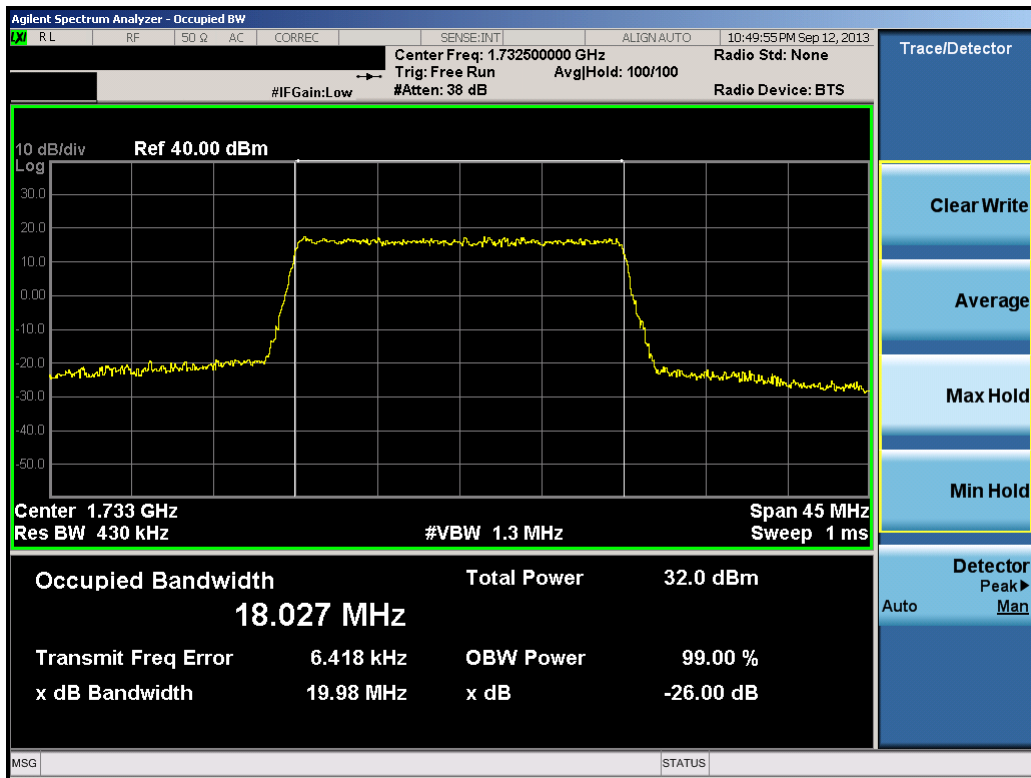


Plot 9-43. Lower Band Edge Plot (20.0MHz QPSK – RB Size 100)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 80 of 117

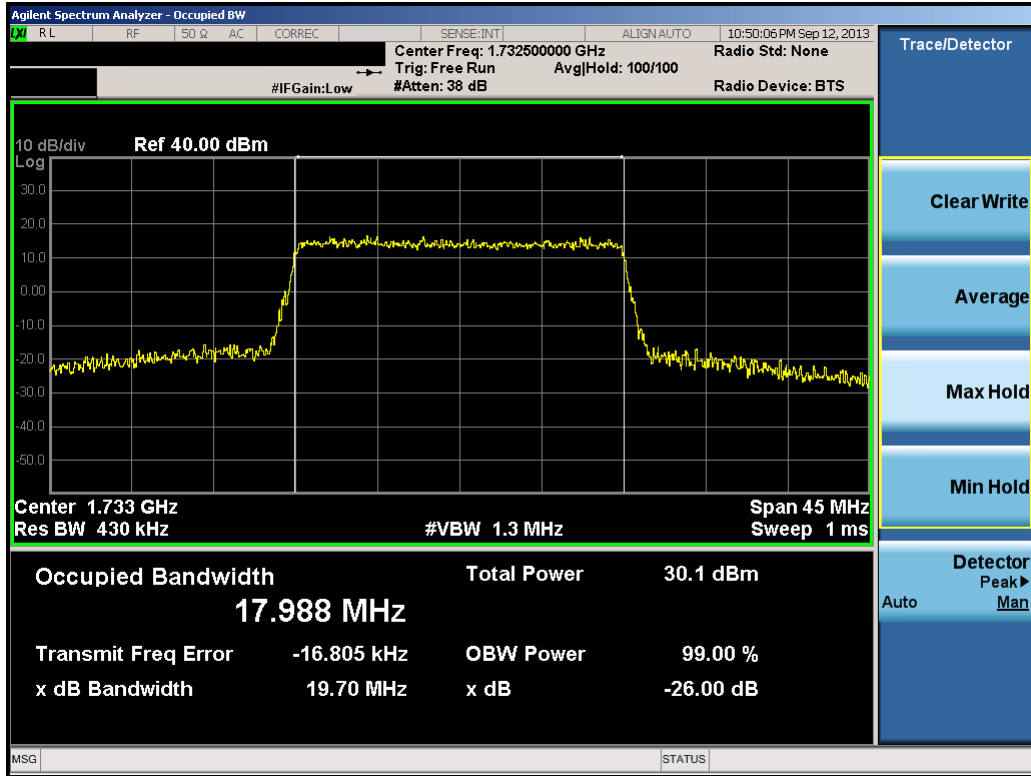


Plot 9-44. Lower Extended Band Edge Plot (20.0MHz QPSK – RB Size 100)

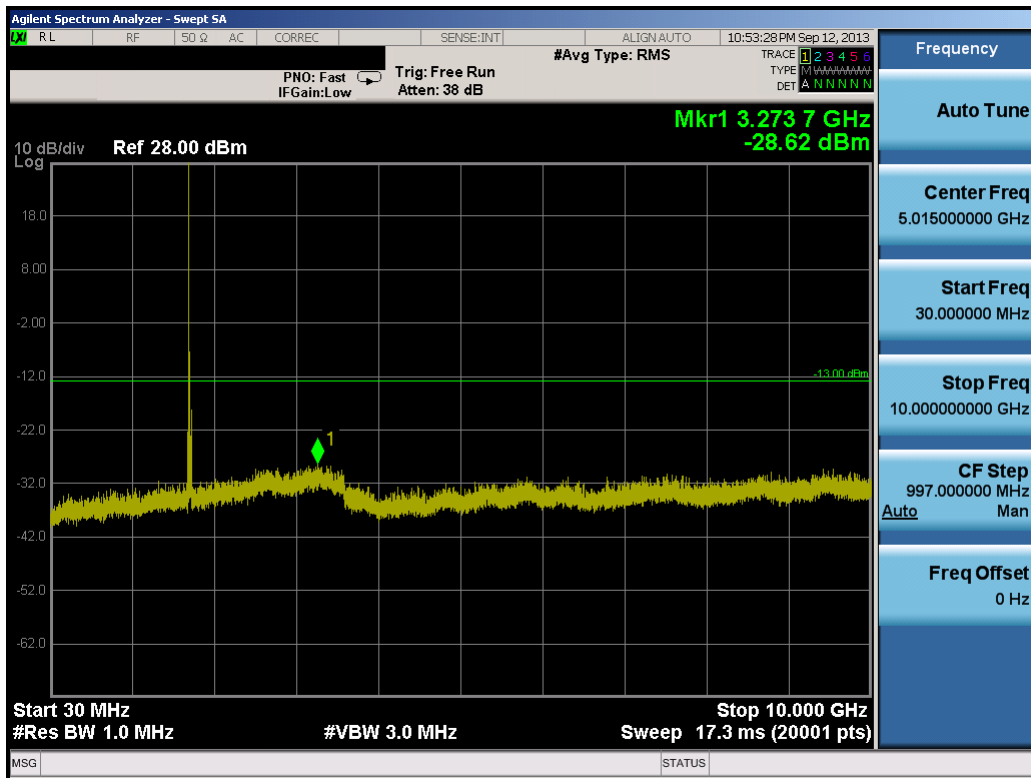


Plot 9-45. Occupied Bandwidth Plot (20.0MHz QPSK – RB Size 100)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 81 of 117



Plot 9-46. Occupied Bandwidth Plot (20.0MHz 16-QAM – RB Size 100)

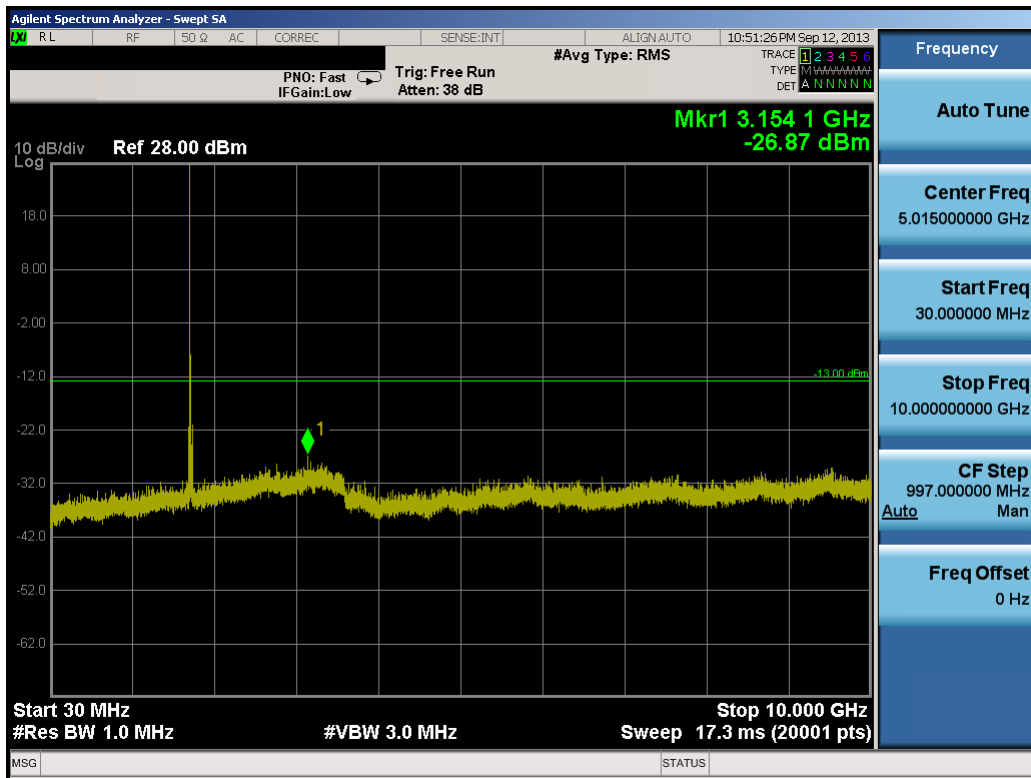


Plot 9-47. Conducted Spurious Plot (20.0MHz QPSK – RB Size 1, RB Offset 0– Low Channel)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 82 of 117

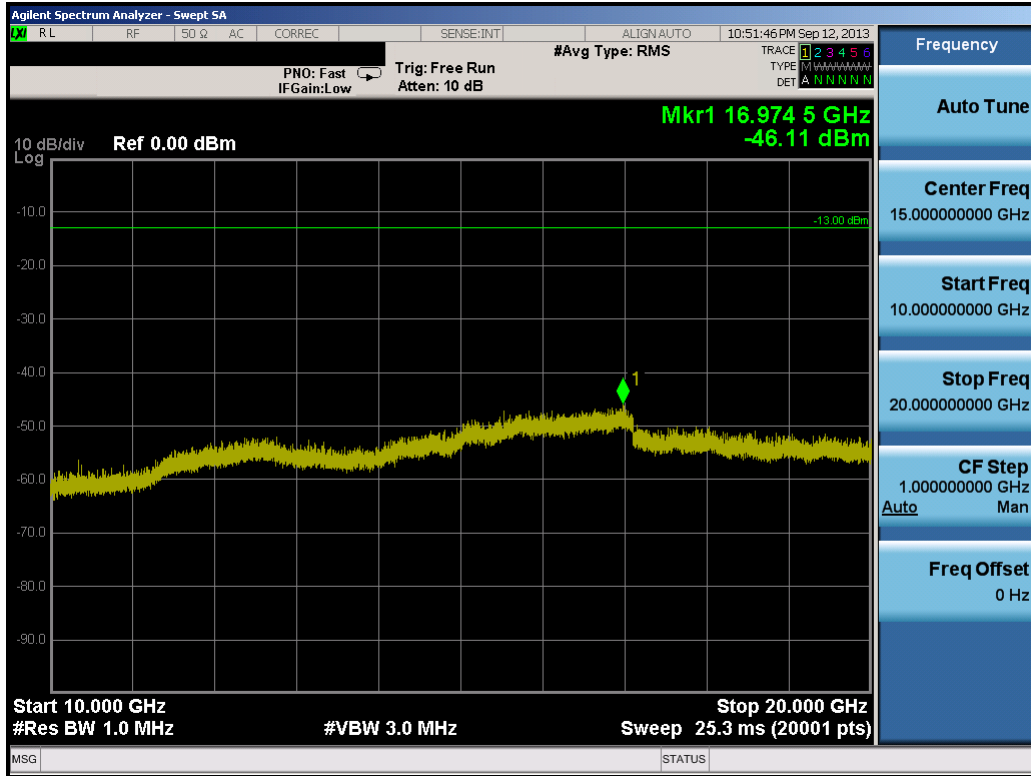


Plot 9-48. Conducted Spurious Plot (20.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

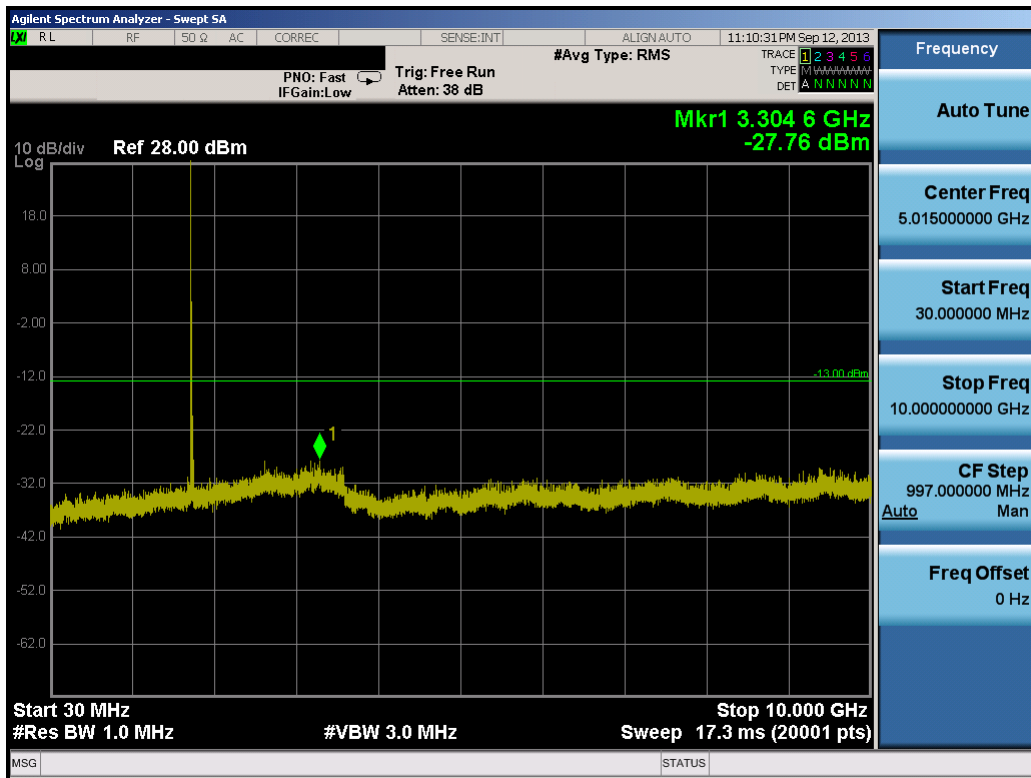


Plot 9-49. Conducted Spurious Plot (20.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 83 of 117

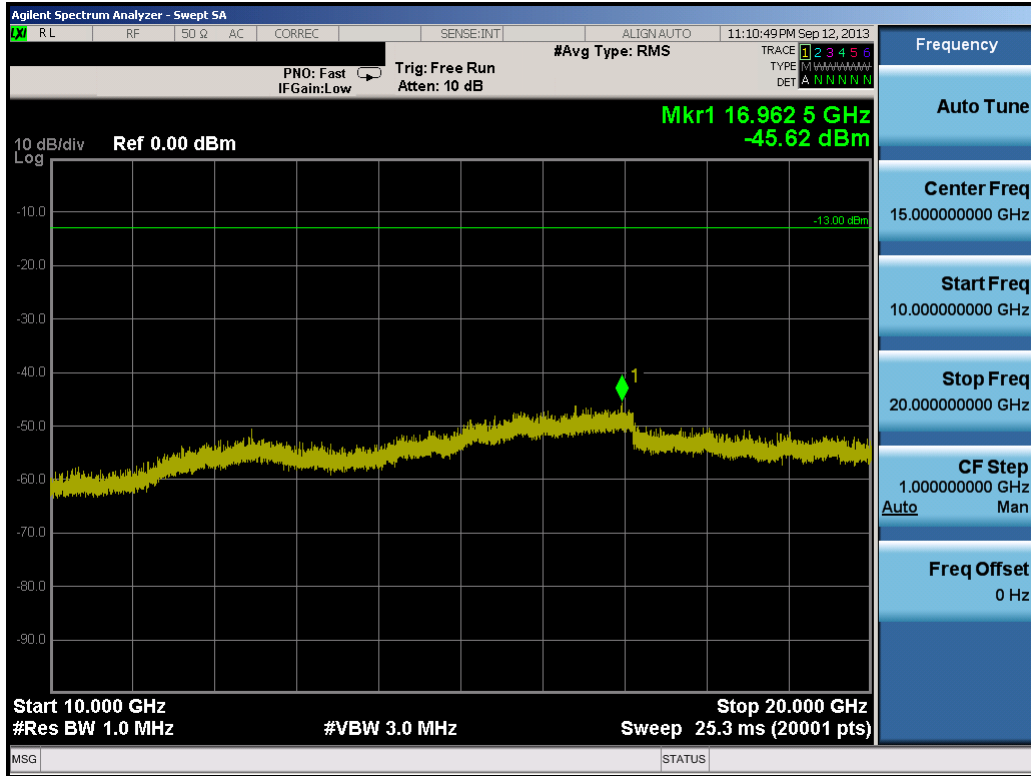


Plot 9-50. Conducted Spurious Plot (20.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)



Plot 9-51. Conducted Spurious Plot (20.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 84 of 117

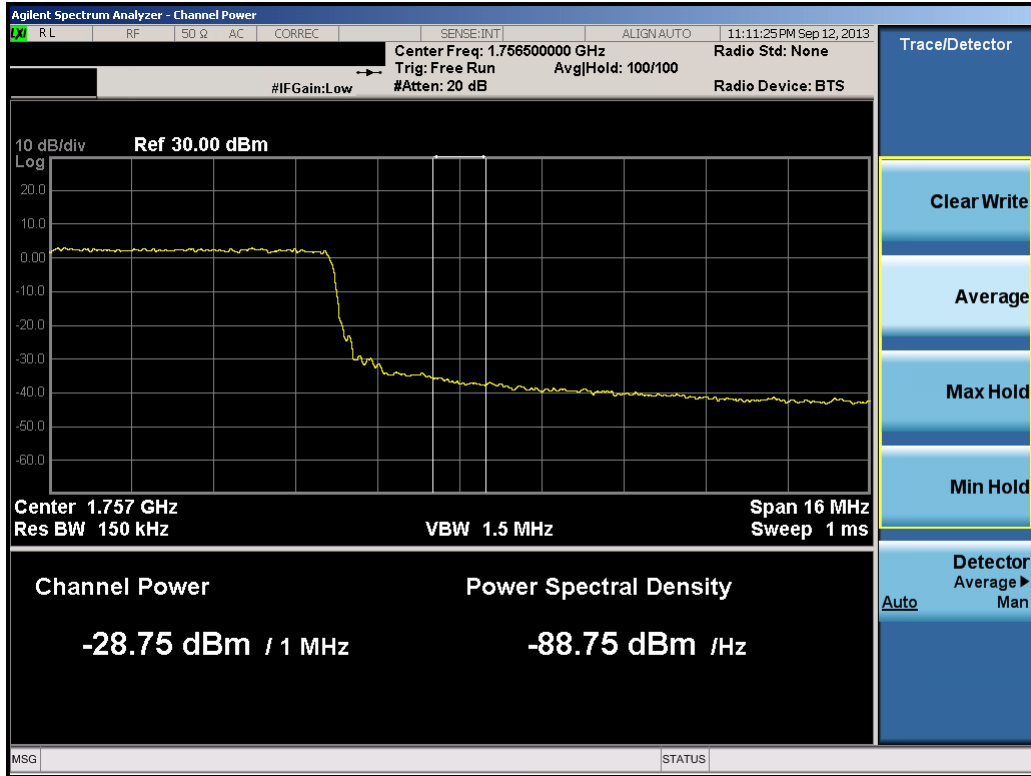


Plot 9-52. Conducted Spurious Plot (20.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

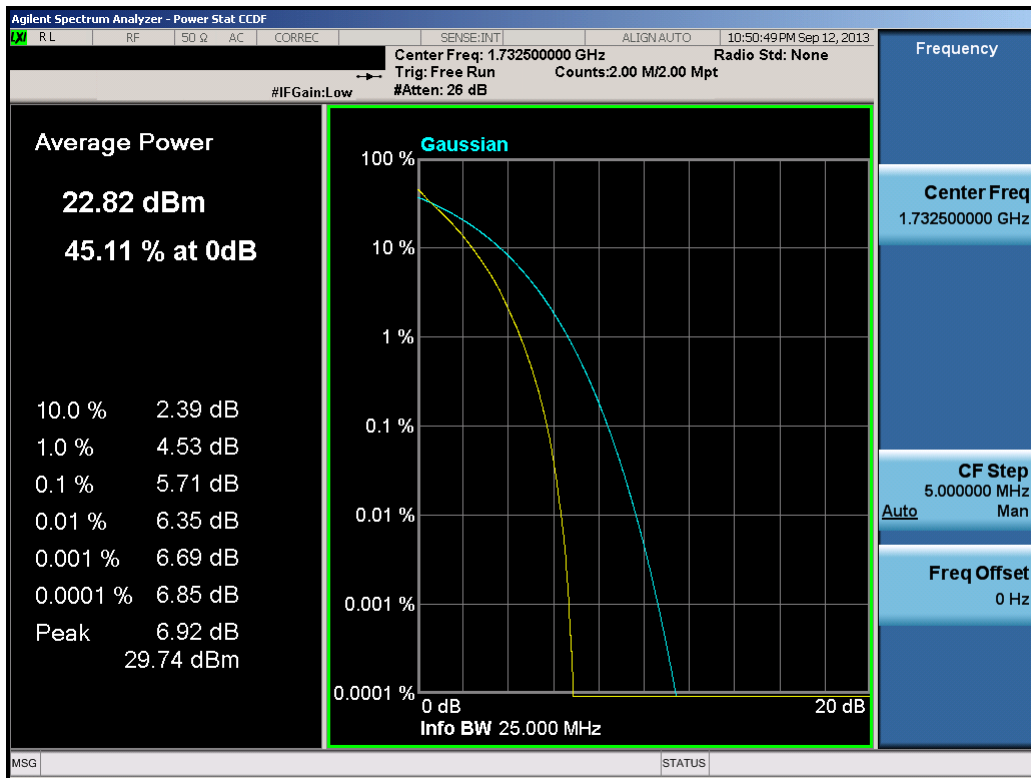


Plot 9-53. Upper Band Edge Plot (20.0MHz QPSK – RB Size 100)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 85 of 117

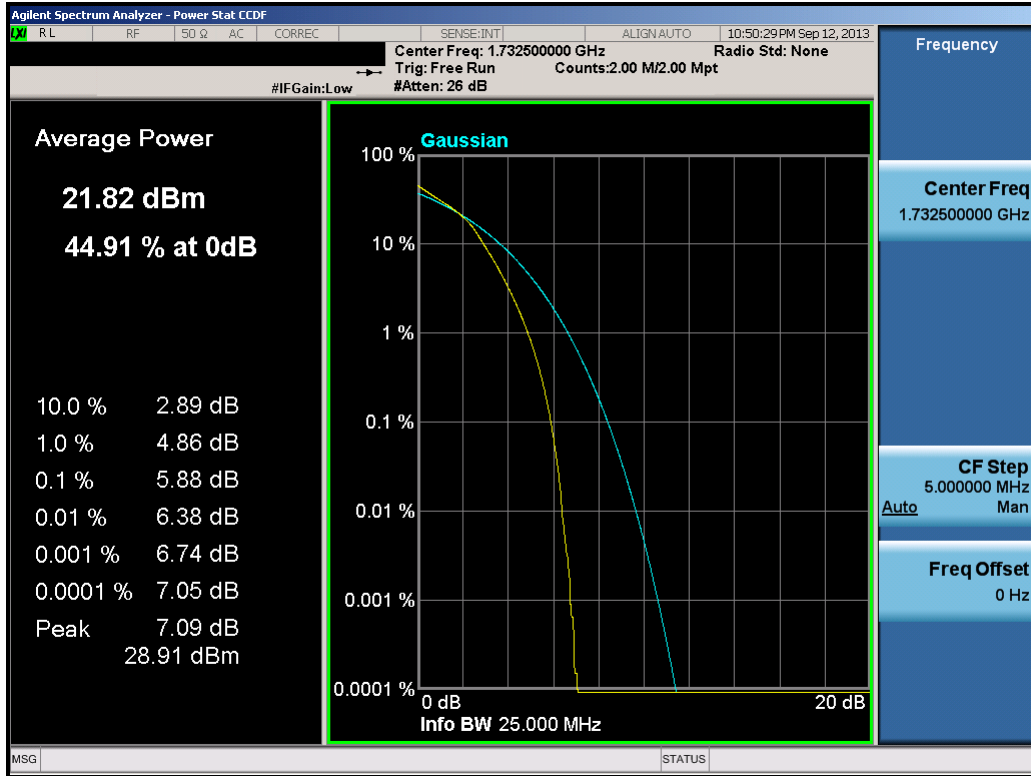


Plot 9-54. Upper Extended Band Edge Plot (20.0MHz QPSK – RB Size 100)



Plot 9-55. PAR Plot (20.0MHz QPSK – RB Size 100)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 86 of 117

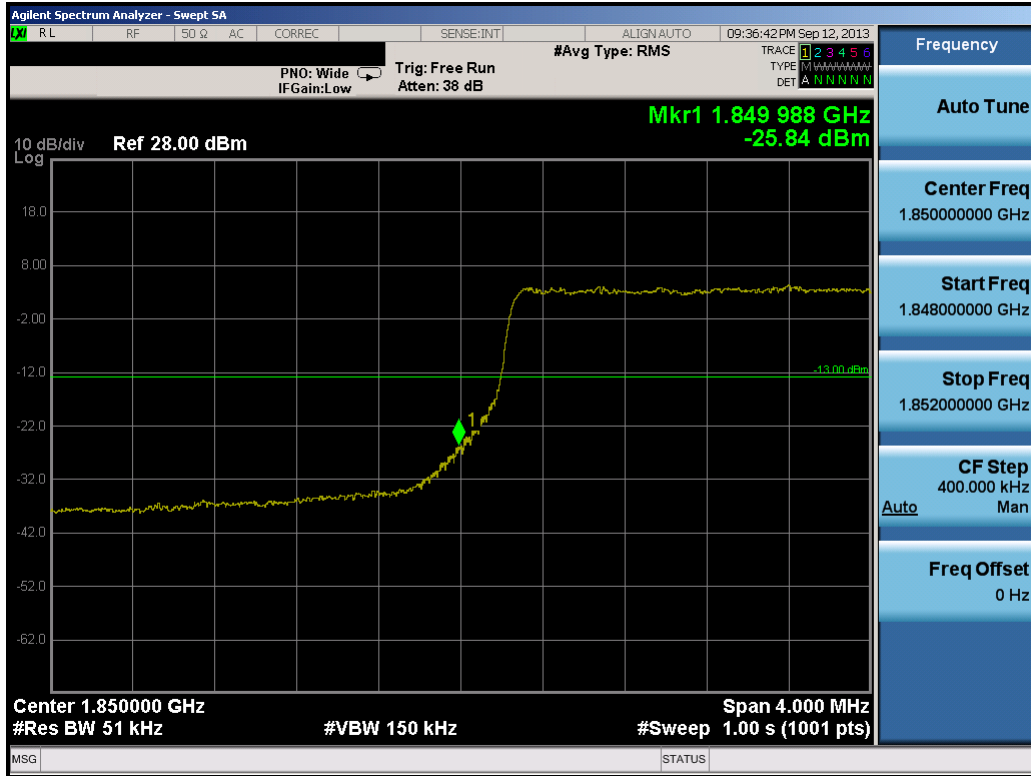


Plot 9-56. PAR Plot (20.0MHz 16-QAM – RB Size 100)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 87 of 117

10.0 BAND 2 PLOTS OF EMISSIONS

Note: All bandwidths, RB configurations, and modulations were investigated. The worst case test results are reported below.

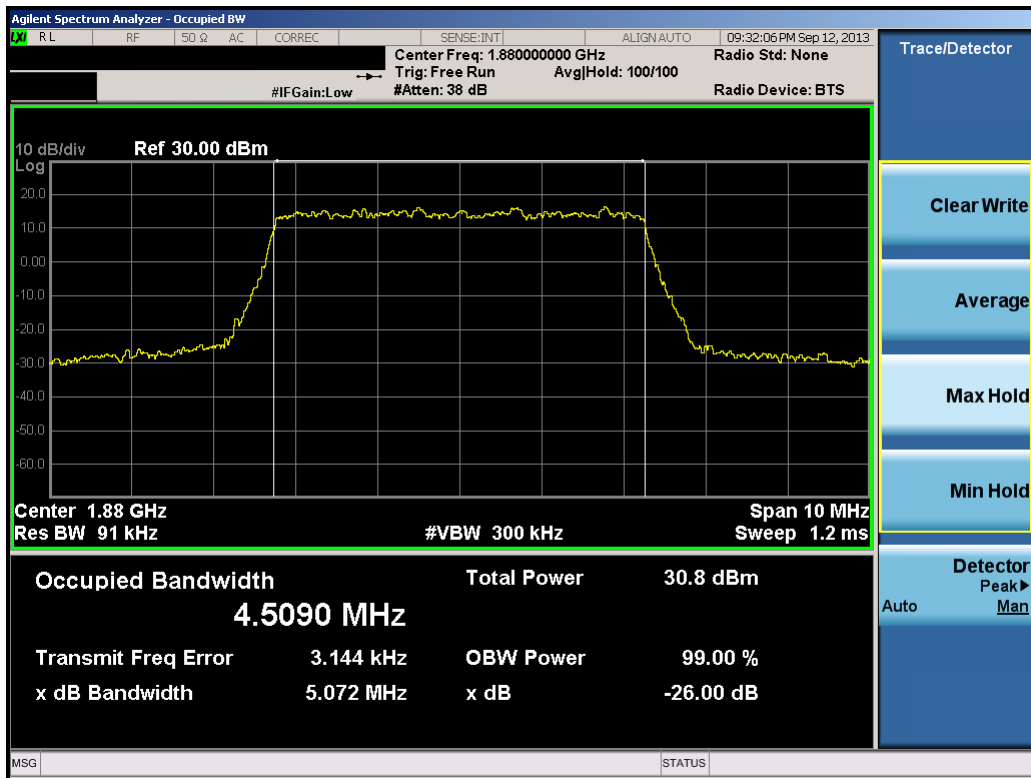


Plot 10-1. Lower Band Edge Plot (5.0MHz QPSK – RB Size 25)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 88 of 117

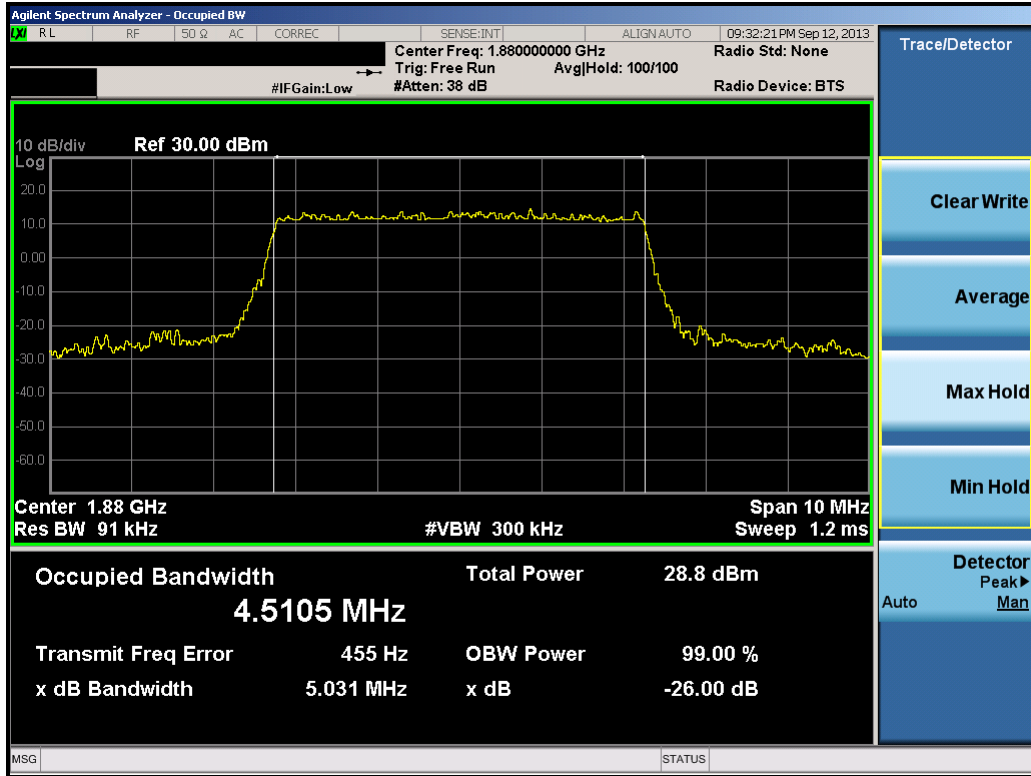


Plot 10-2. Lower Extended Band Edge Plot (5.0MHz QPSK – RB Size 25)

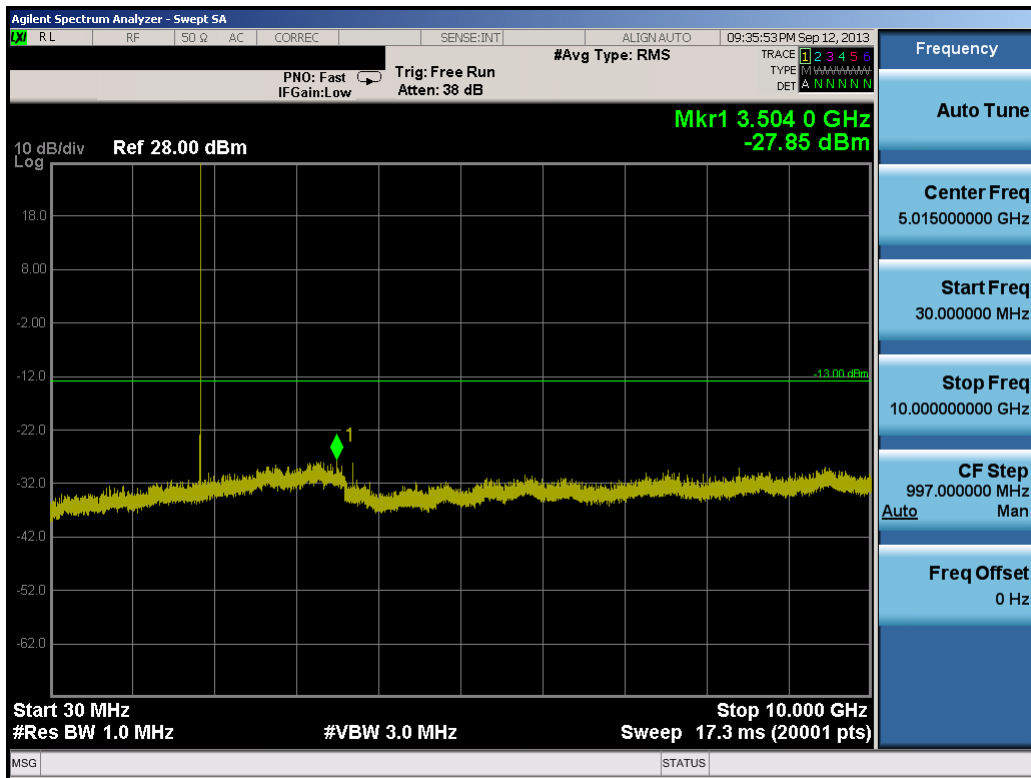


Plot 10-3. Occupied Bandwidth Plot (5.0MHz QPSK – RB Size 25)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 89 of 117

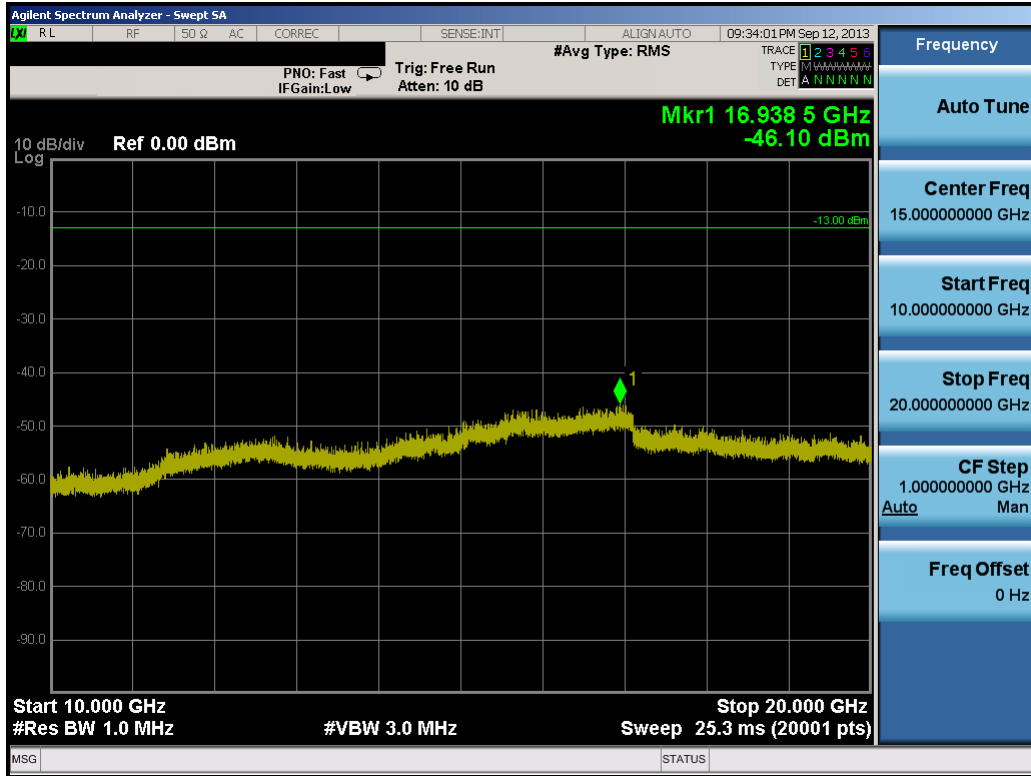


Plot 10-4. Occupied Bandwidth Plot (5.0MHz 16-QAM – RB Size 25)

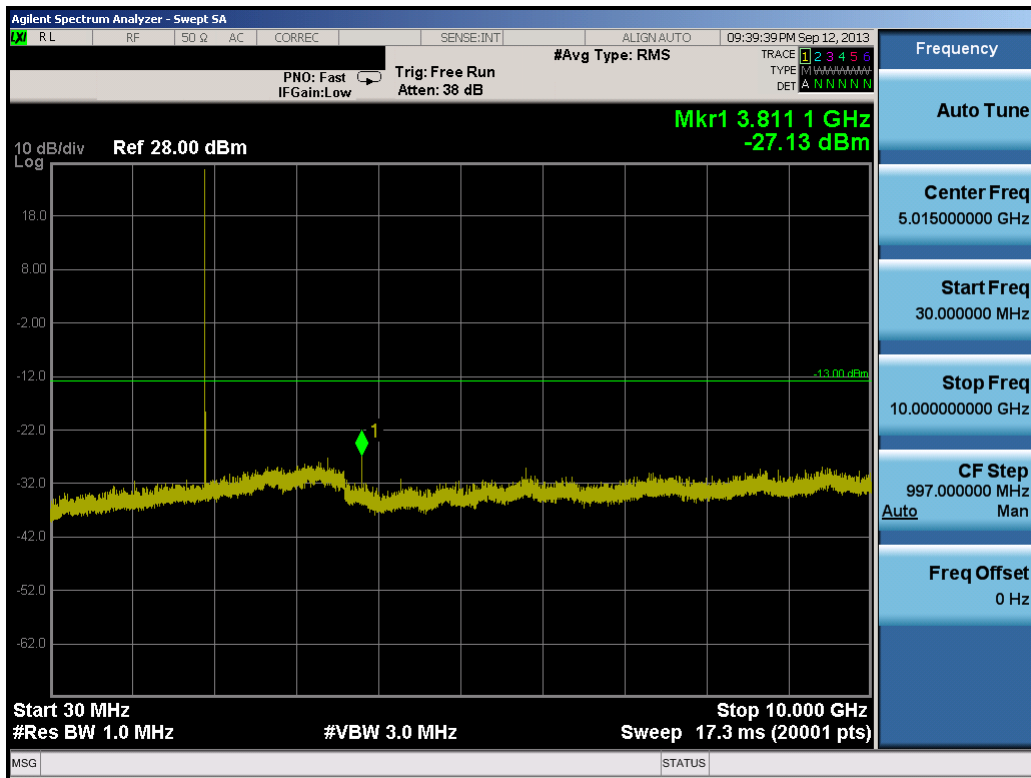


Plot 10-5. Conducted Spurious Plot (5.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 90 of 117

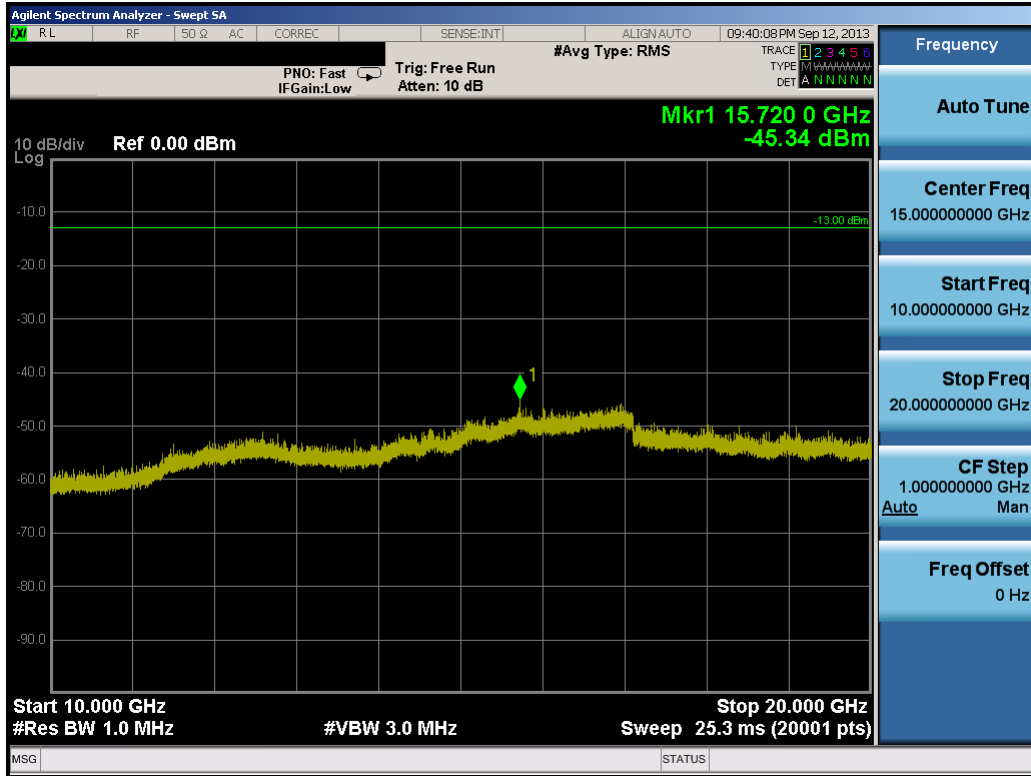


Plot 10-8. Conducted Spurious Plot (5.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)



Plot 10-9. Conducted Spurious Plot (5.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 92 of 117



Plot 10-10. Conducted Spurious Plot (5.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

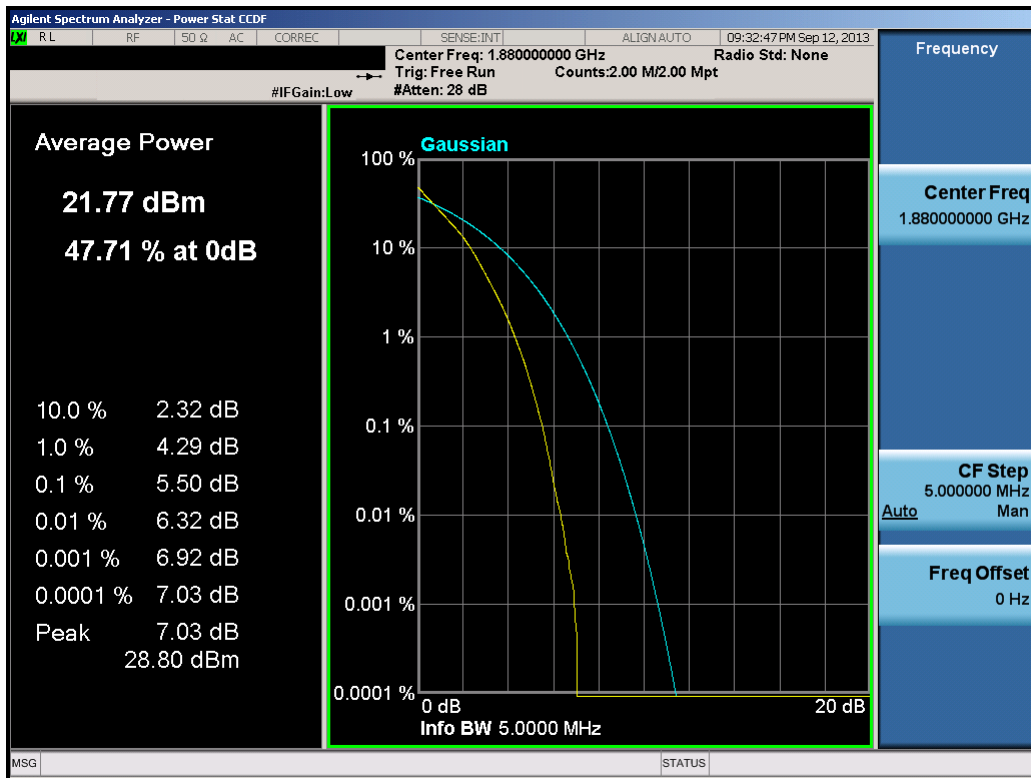


Plot 10-11. Upper Band Edge Plot (5.0MHz QPSK – RB Size 25)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 93 of 117

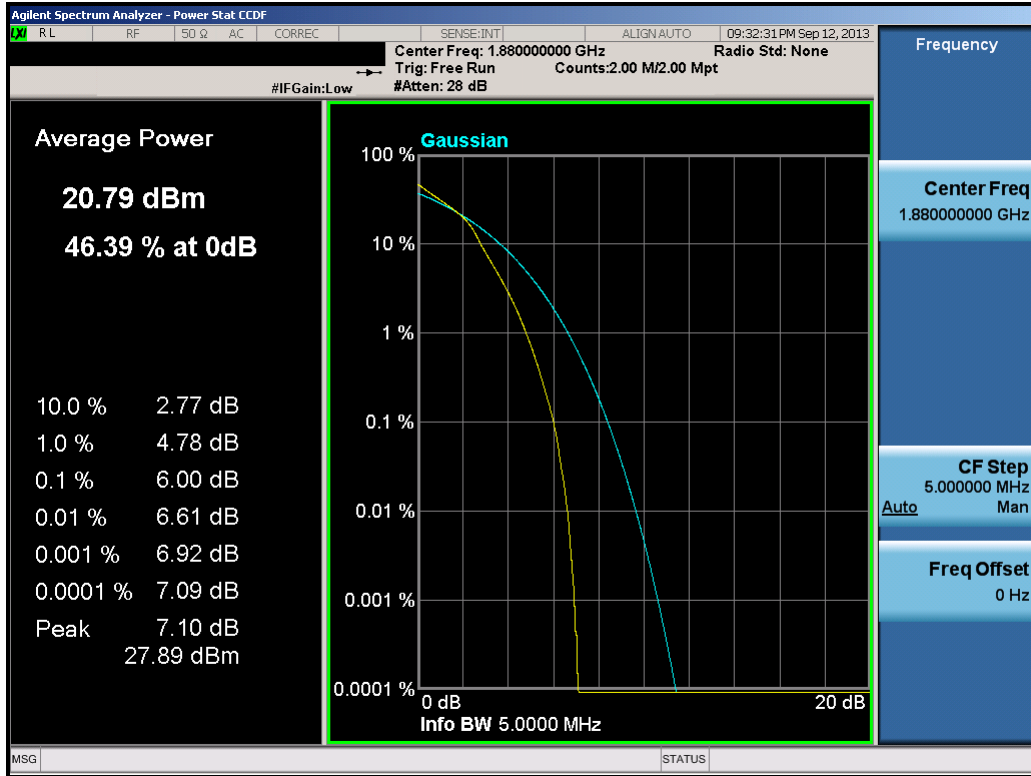


Plot 10-12. Upper Extended Band Edge Plot (5.0MHz QPSK – RB Size 25)

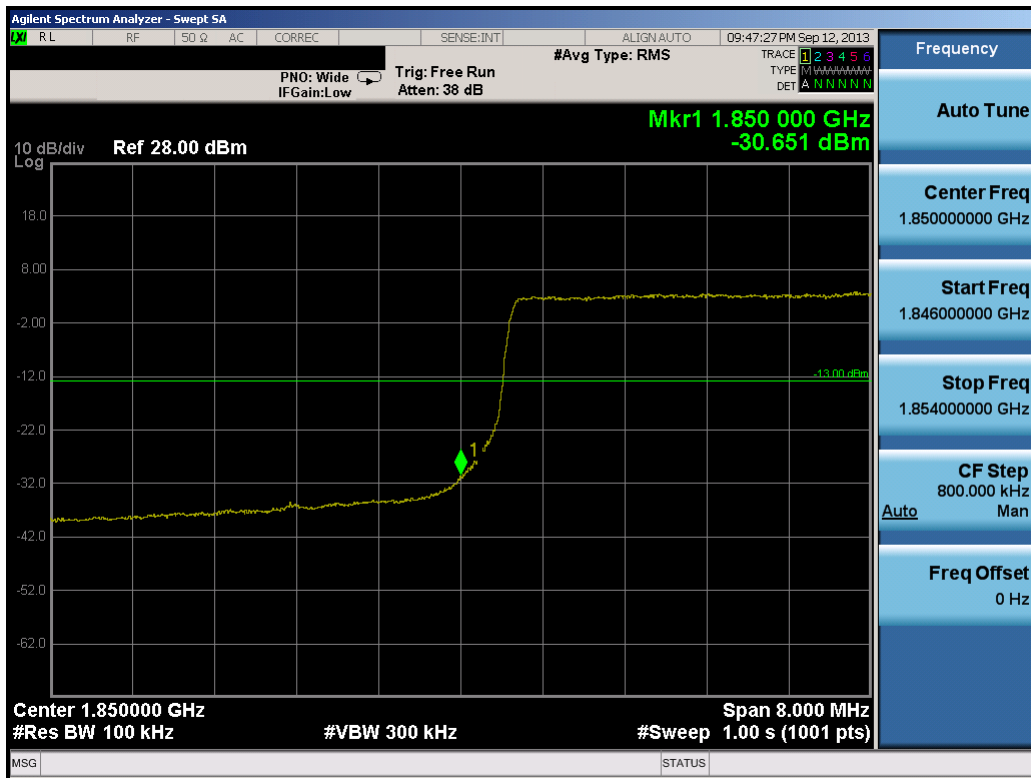


Plot 10-13. PAR Plot (5.0MHz QPSK – RB Size 25)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 94 of 117

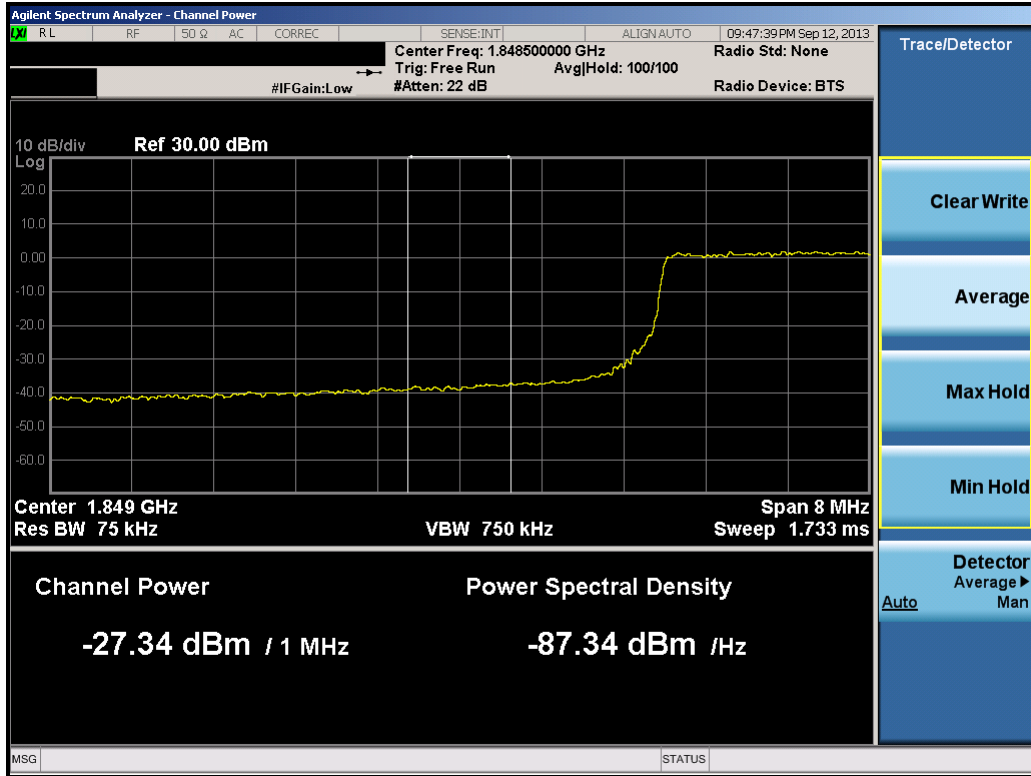


Plot 10-14. PAR Plot (5.0MHz 16-QAM – RB Size 25)

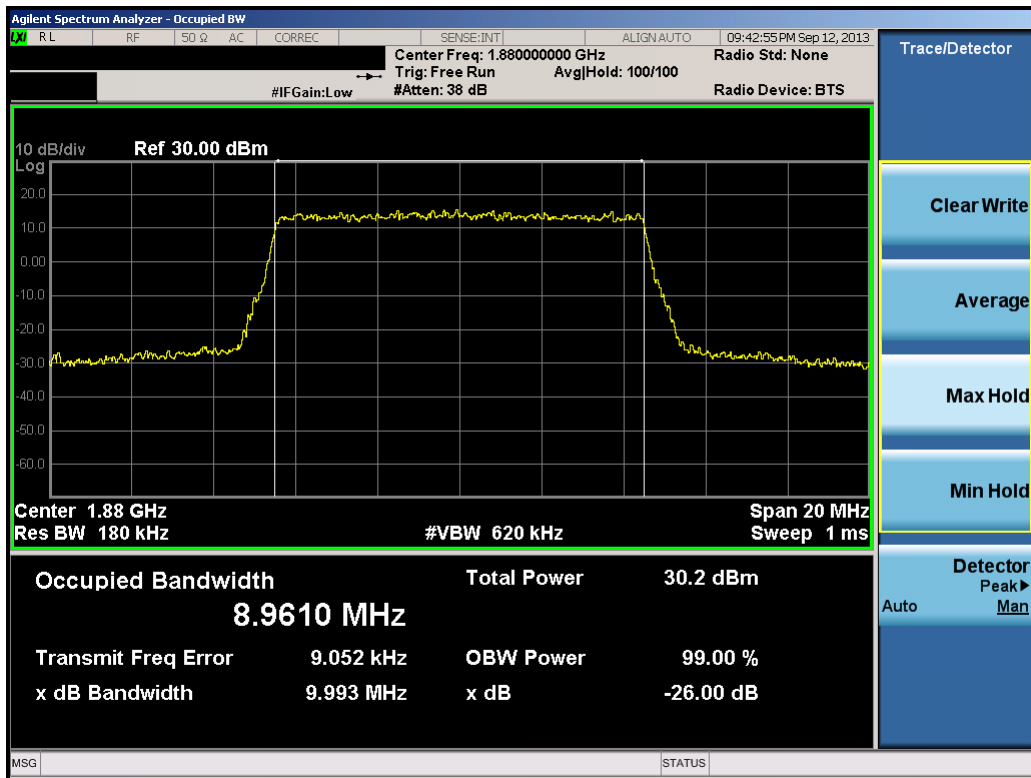


Plot 10-15. Lower Band Edge Plot (10.0MHz QPSK – RB Size 50)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 95 of 117

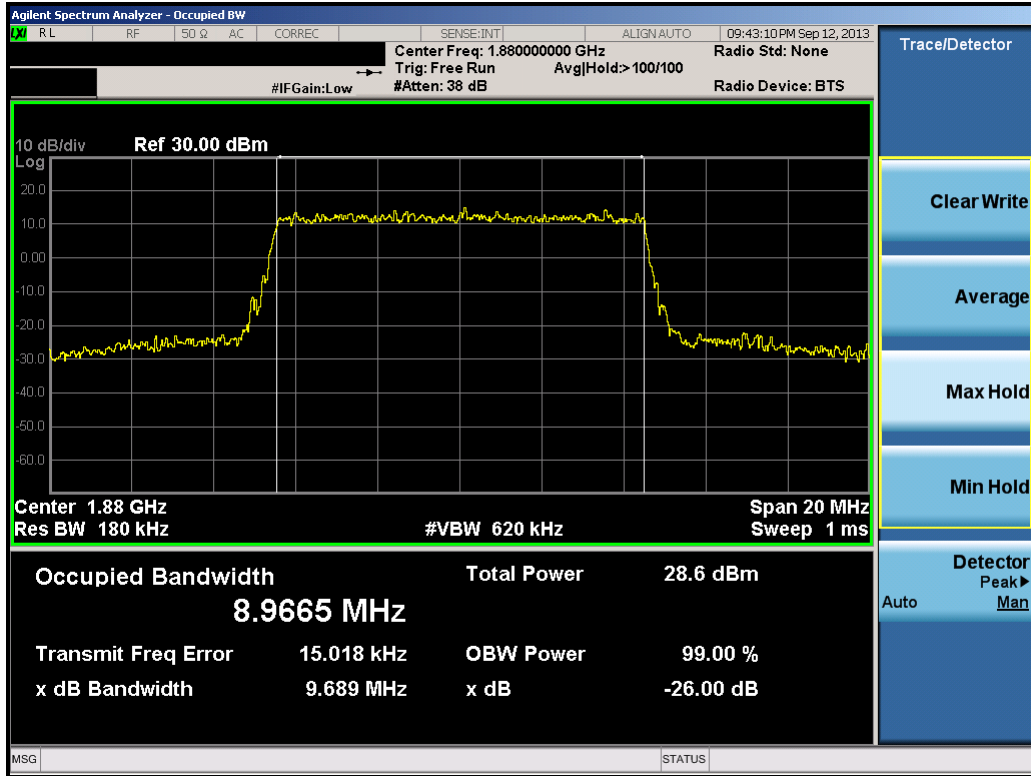


Plot 10-16. Lower Extended Band Edge Plot (10.0MHz QPSK – RB Size 50)

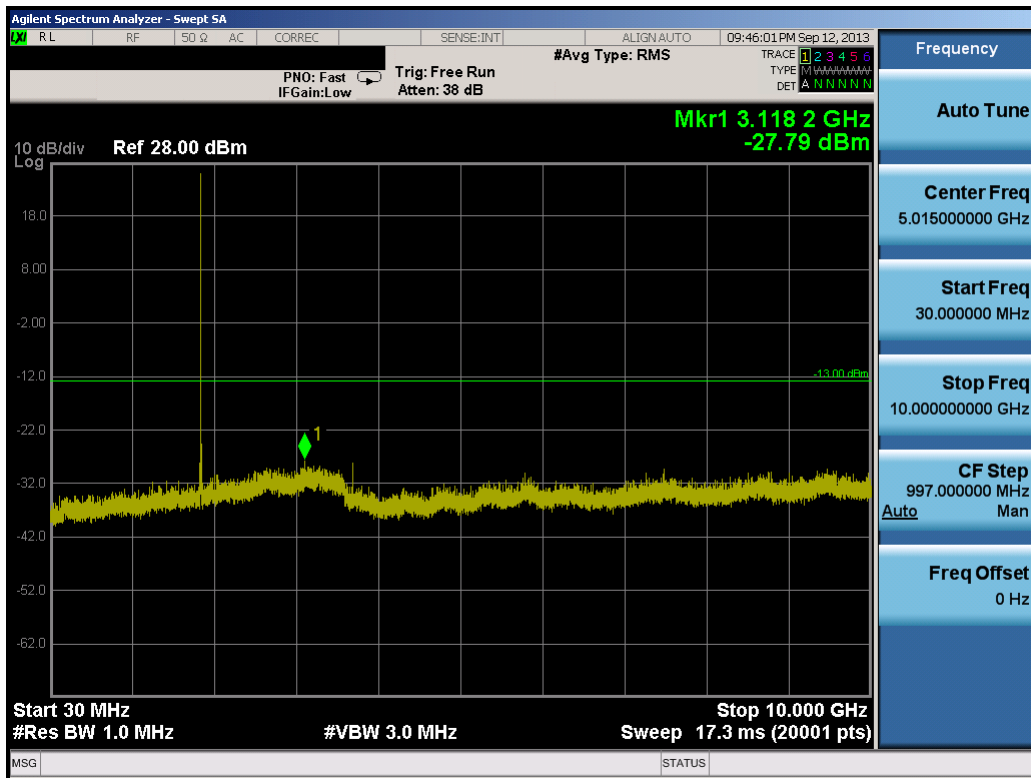


Plot 10-17. Occupied Bandwidth Plot (10.0MHz QPSK – RB Size 50)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 96 of 117

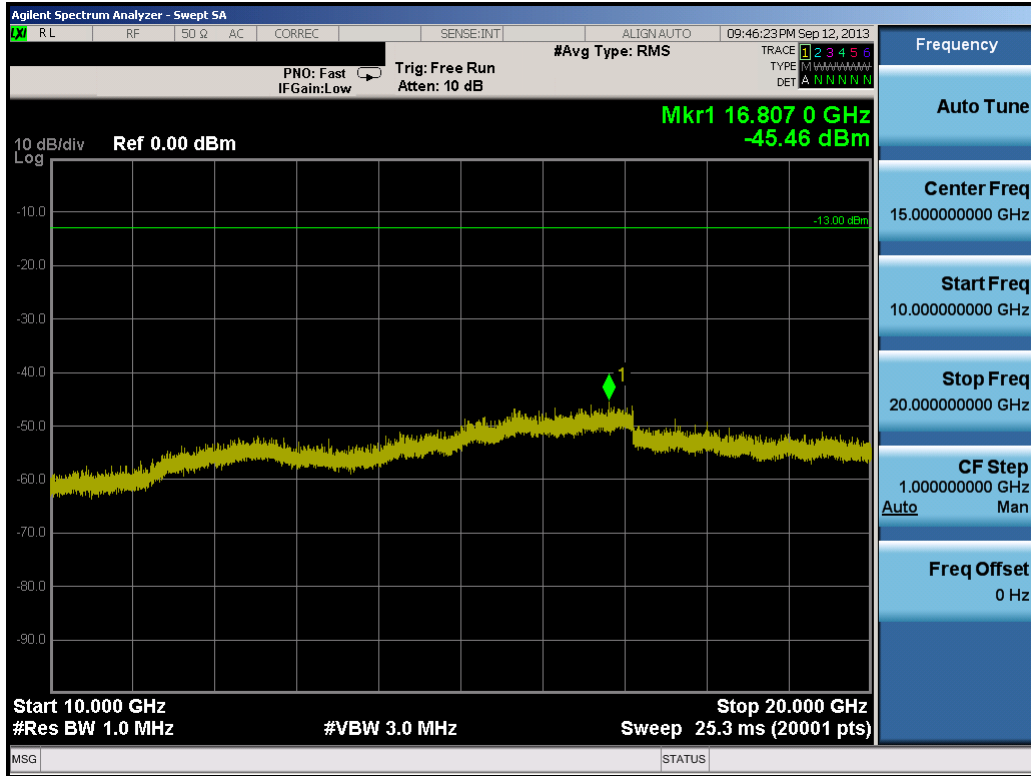


Plot 10-18. Occupied Bandwidth Plot (10.0MHz 16-QAM – RB Size 50)

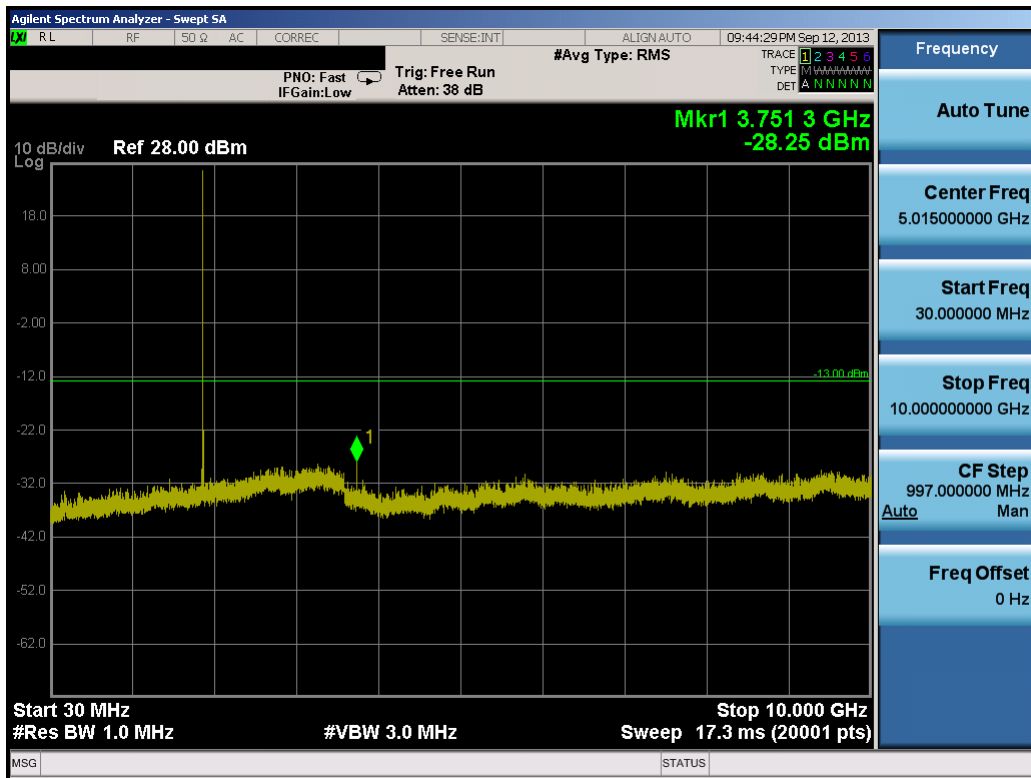


Plot 10-19. Conducted Spurious Plot (10.0MHz QPSK – RB Size 1, RB Offset 0– Low Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 97 of 117

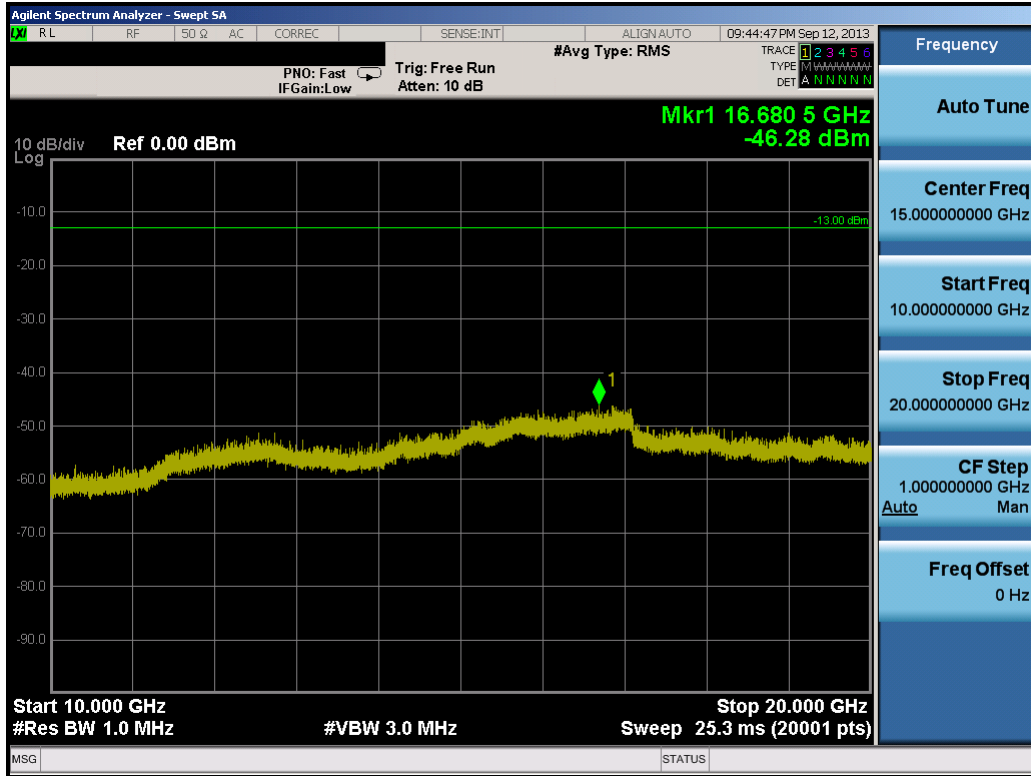


Plot 10-20. Conducted Spurious Plot (10.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

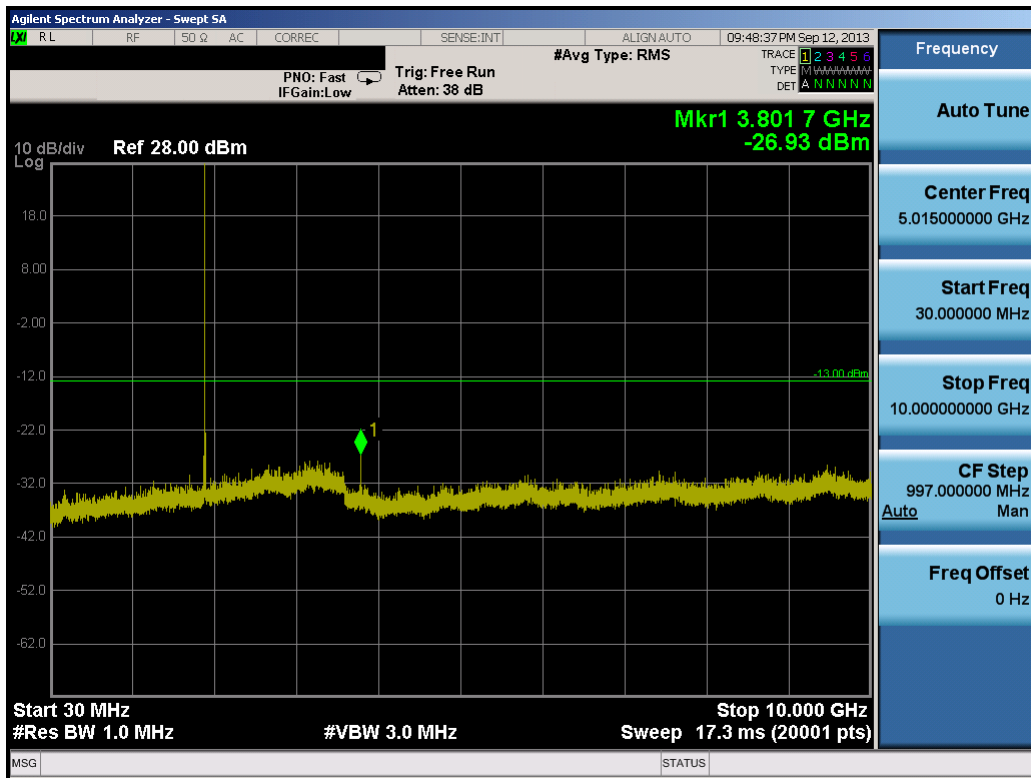


Plot 10-21. Conducted Spurious Plot (10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 98 of 117

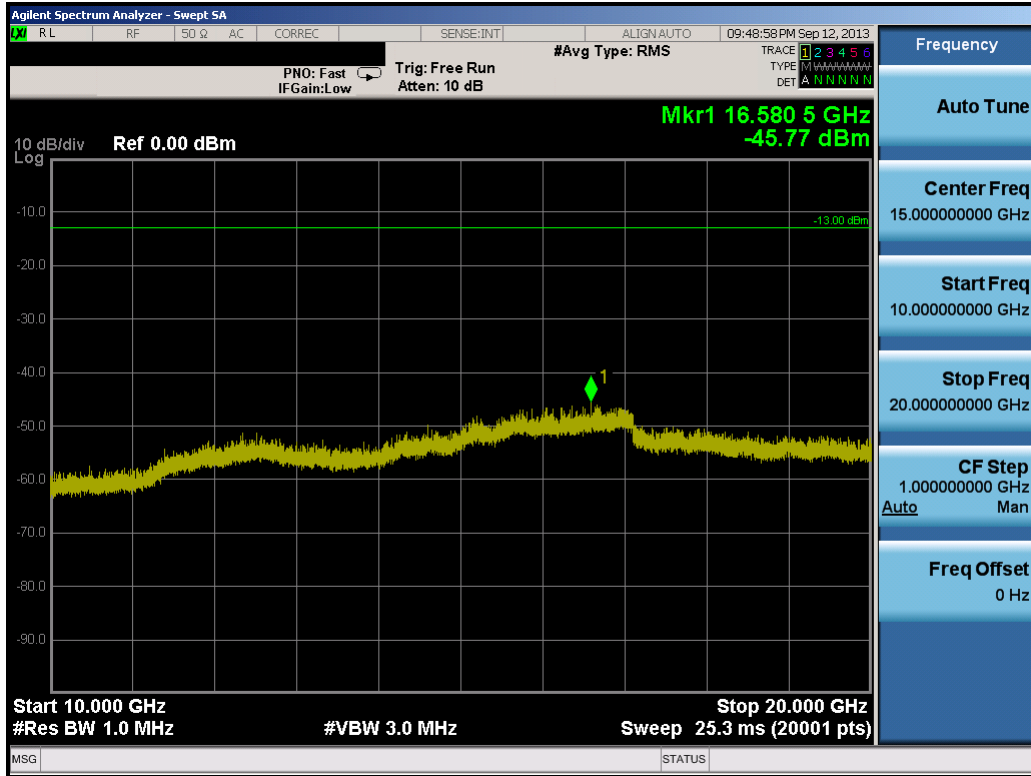


Plot 10-22. Conducted Spurious Plot (10.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)



Plot 10-23. Conducted Spurious Plot (10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 99 of 117

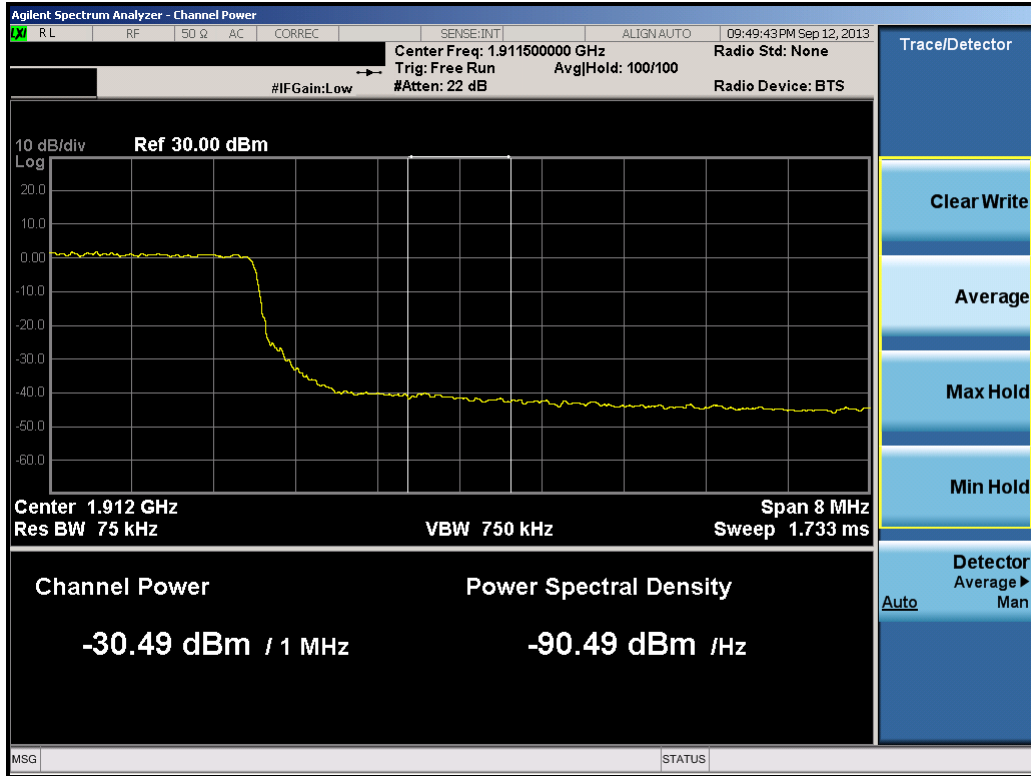


Plot 10-24. Conducted Spurious Plot (10.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

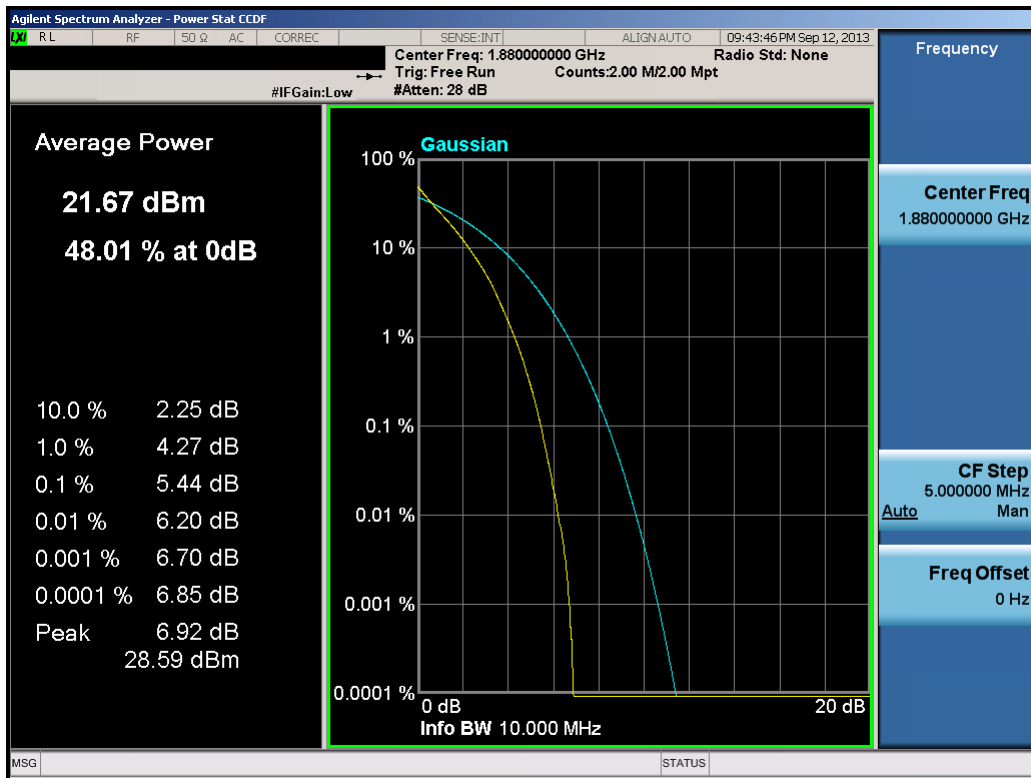


Plot 10-25. Upper Band Edge Plot (10.0MHz QPSK – RB Size 50)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 100 of 117

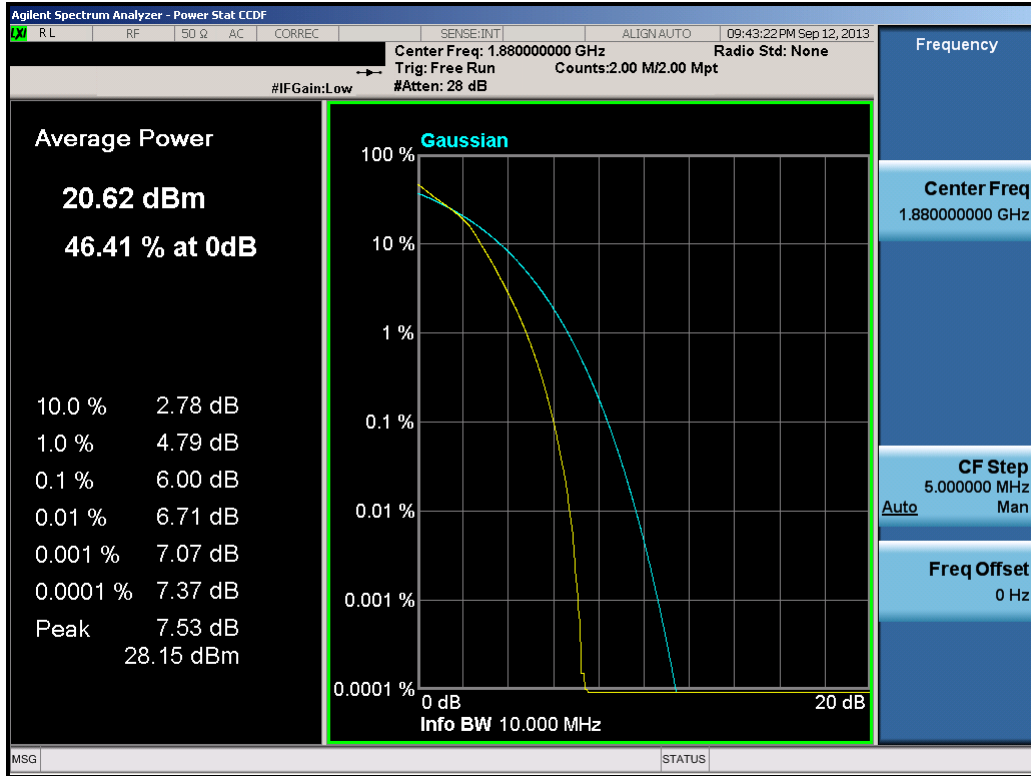


Plot 10-26. Upper Extended Band Edge Plot (10.0MHz QPSK – RB Size 50)

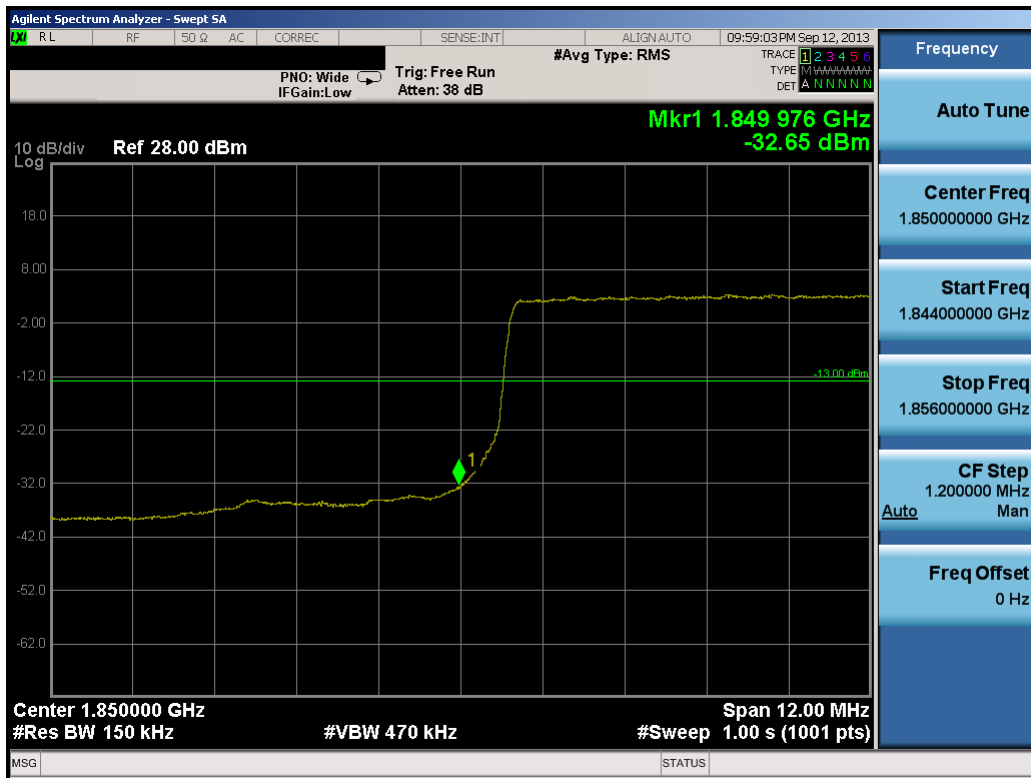


Plot 10-27. PAR Plot (10.0MHz QPSK – RB Size 50)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 101 of 117

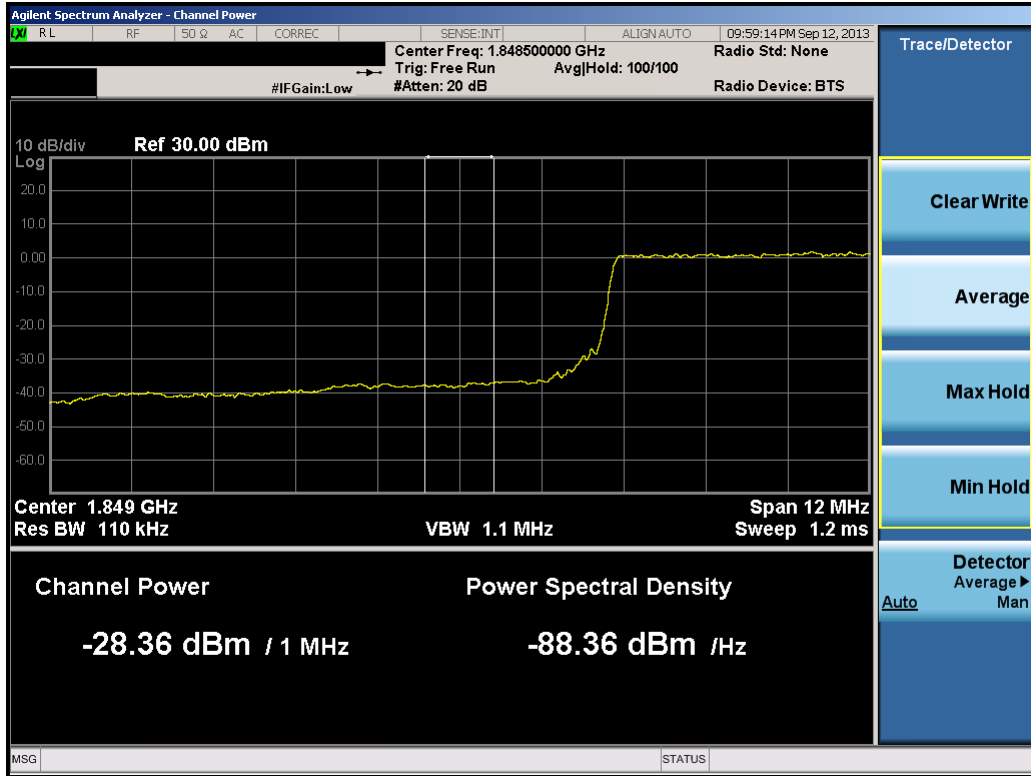


Plot 10-28. PAR Plot (10.0MHz 16-QAM – RB Size 50)

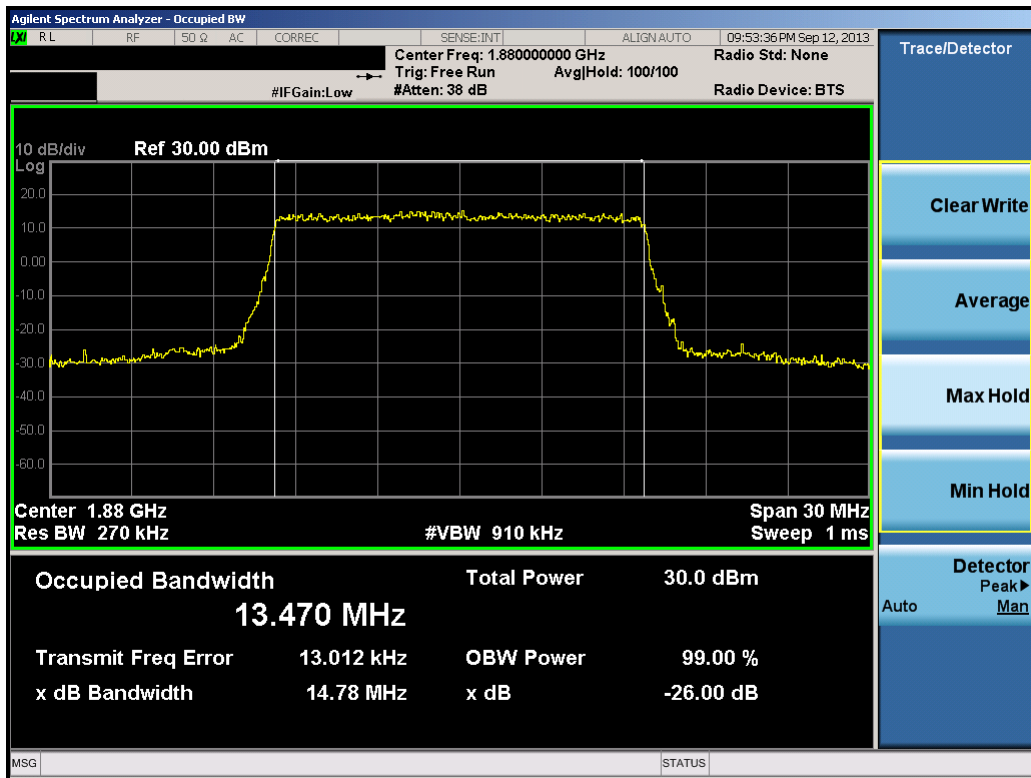


Plot 10-29. Lower Band Edge Plot (15.0MHz QPSK – RB Size 75)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 102 of 117

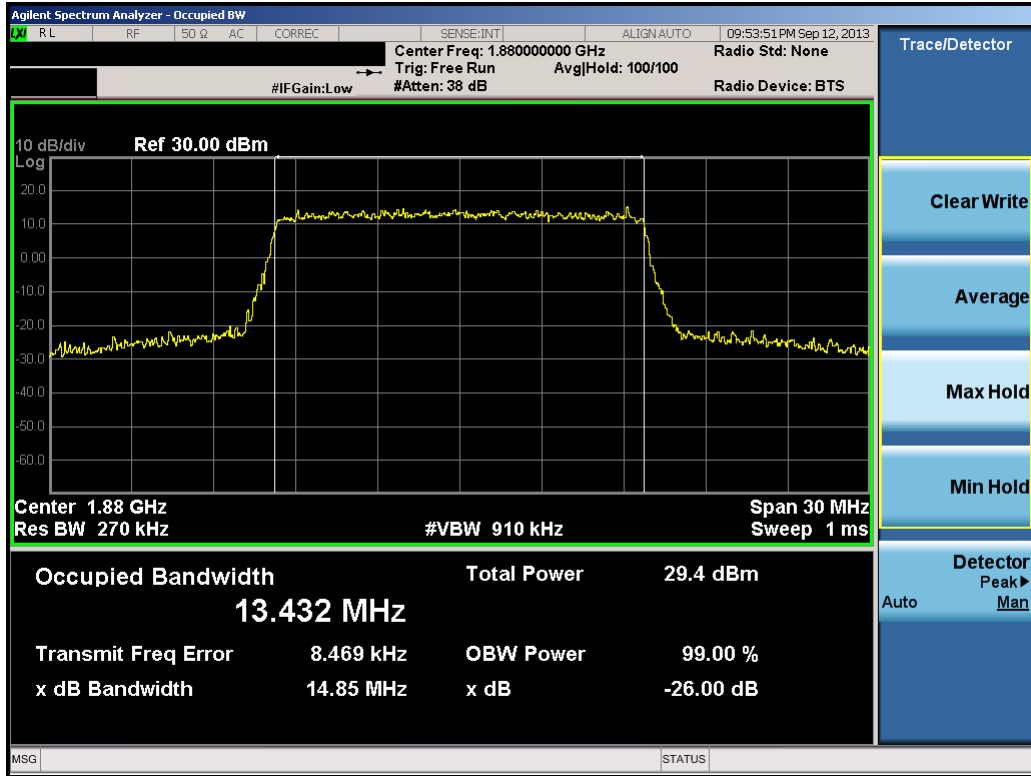


Plot 10-30. Lower Extended Band Edge Plot (15.0MHz QPSK – RB Size 75)

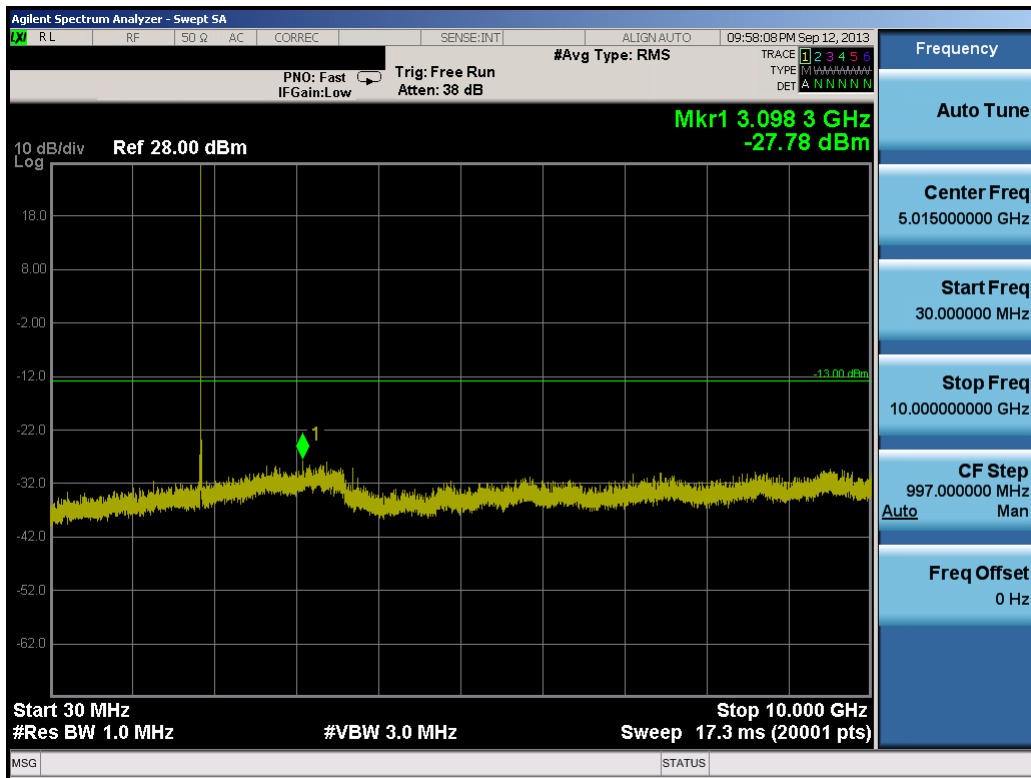


Plot 10-31. Occupied Bandwidth Plot (15.0MHz QPSK – RB Size 75)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 103 of 117

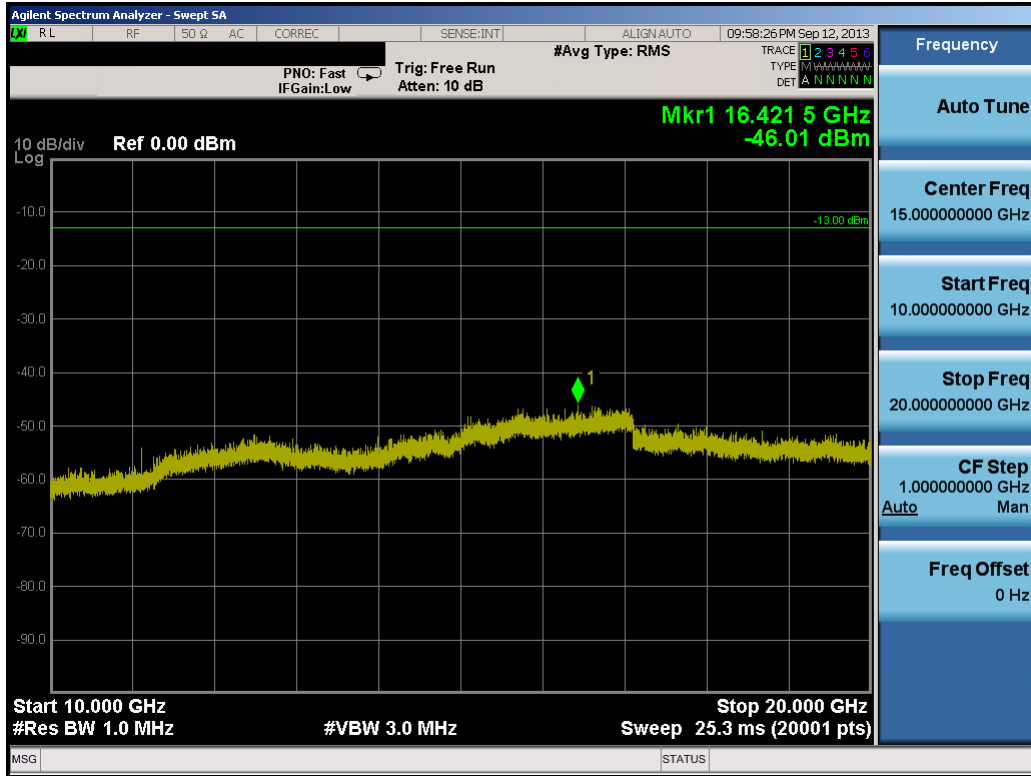


Plot 10-32. Occupied Bandwidth Plot (15.0MHz 16-QAM – RB Size 75)

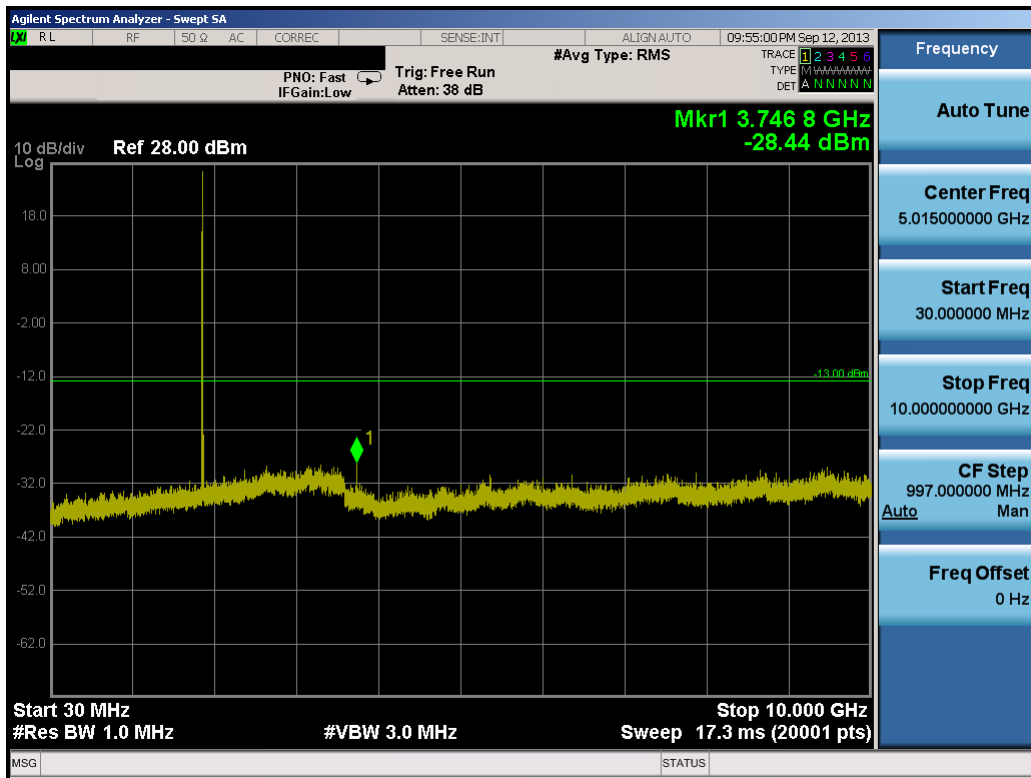


Plot 10-33. Conducted Spurious Plot (15.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 104 of 117

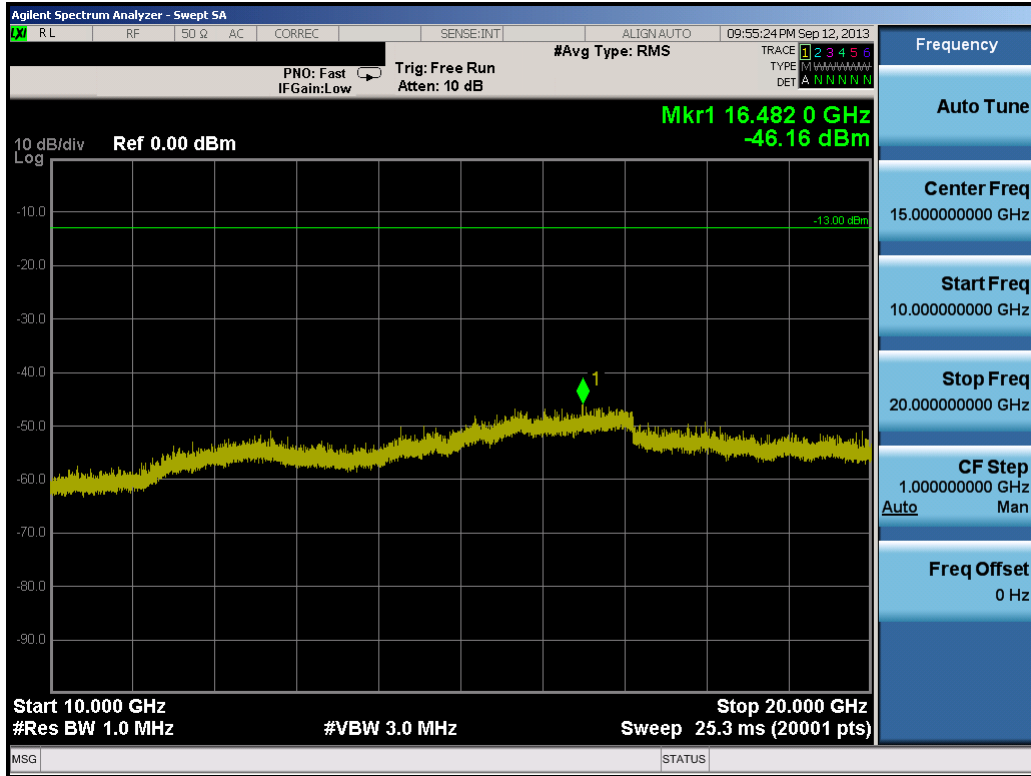


Plot 10-34. Conducted Spurious Plot (15.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

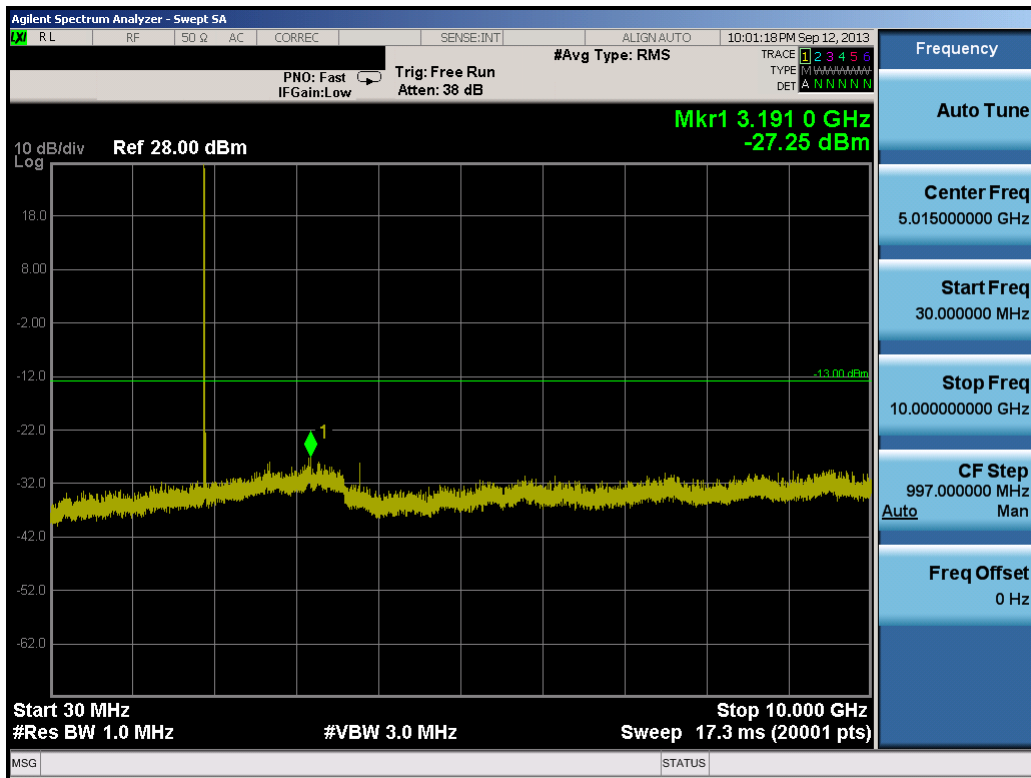


Plot 10-35. Conducted Spurious Plot (15.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 105 of 117

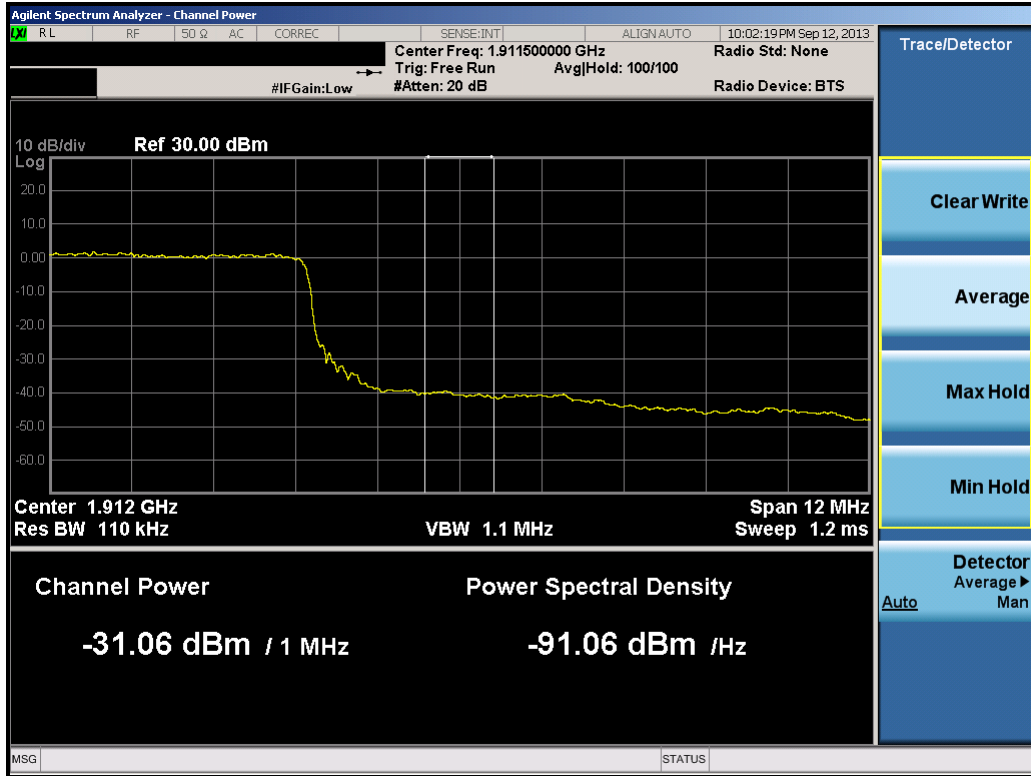


Plot 10-36. Conducted Spurious Plot (15.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

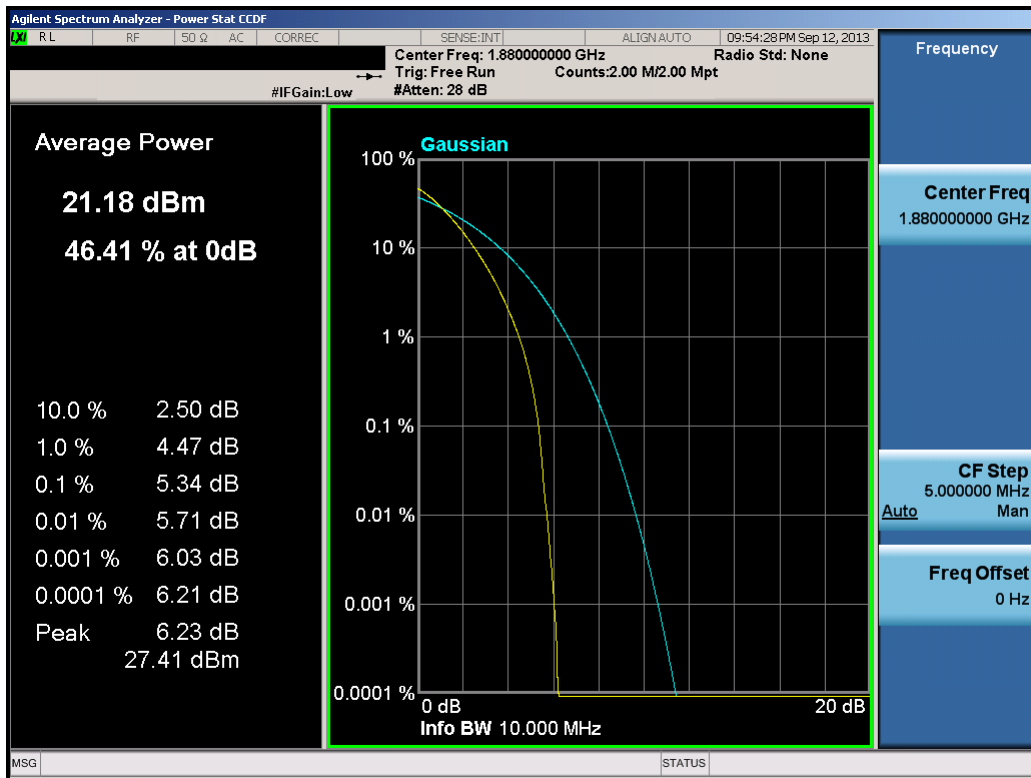


Plot 10-37. Conducted Spurious Plot (15.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 106 of 117

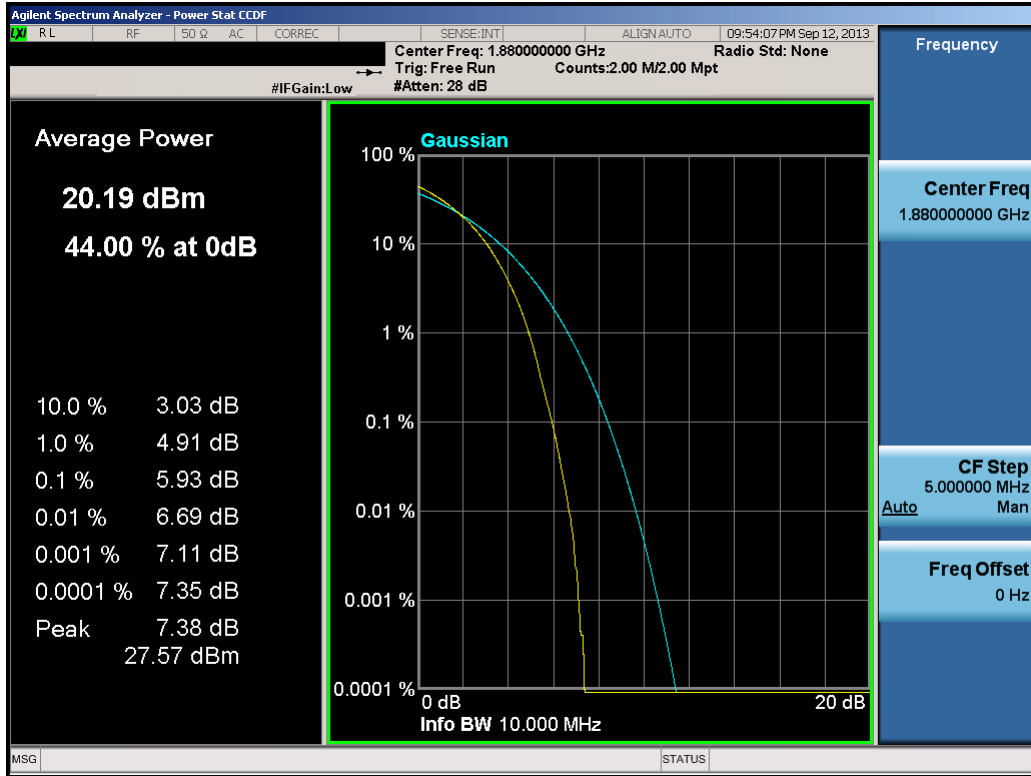


Plot 10-40. Upper Extended Band Edge Plot (15.0MHz QPSK – RB Size 75)

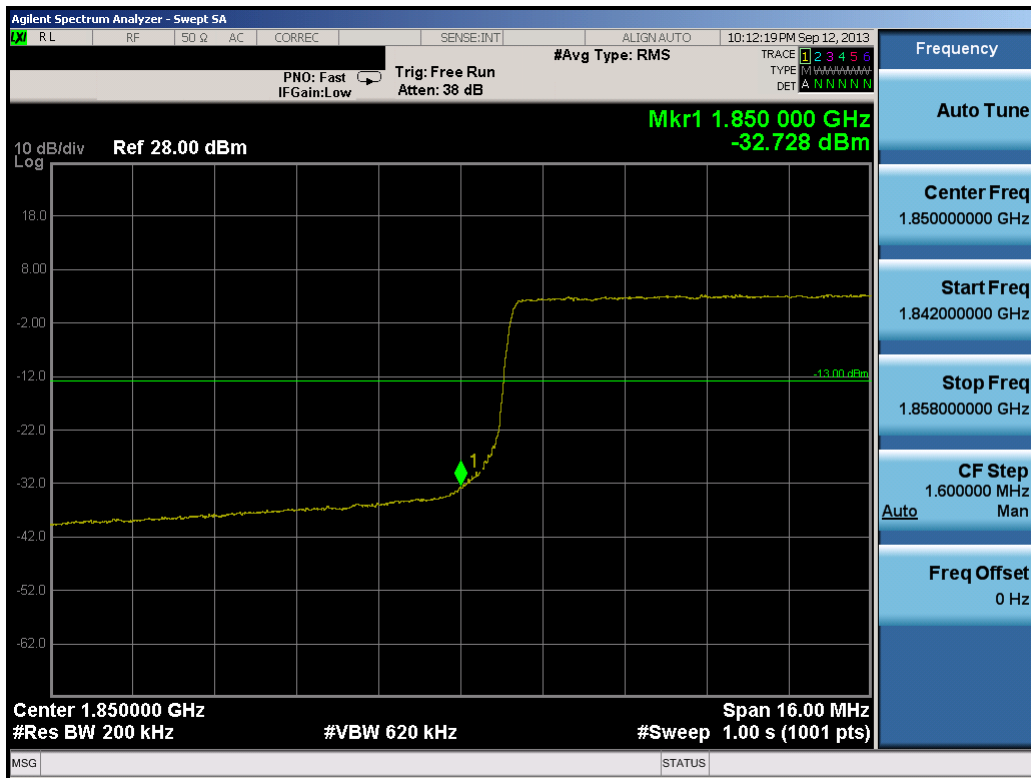


Plot 10-41. PAR Plot (15.0MHz QPSK – RB Size 75)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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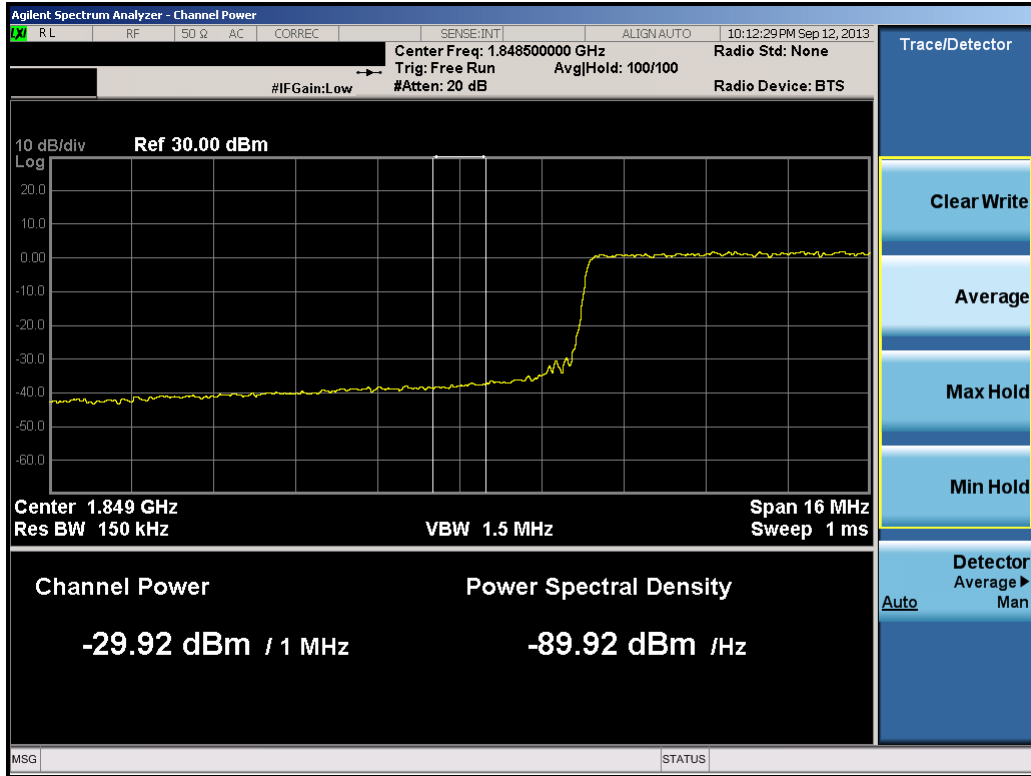


Plot 10-42. PAR Plot (15.0MHz 16-QAM – RB Size 75)

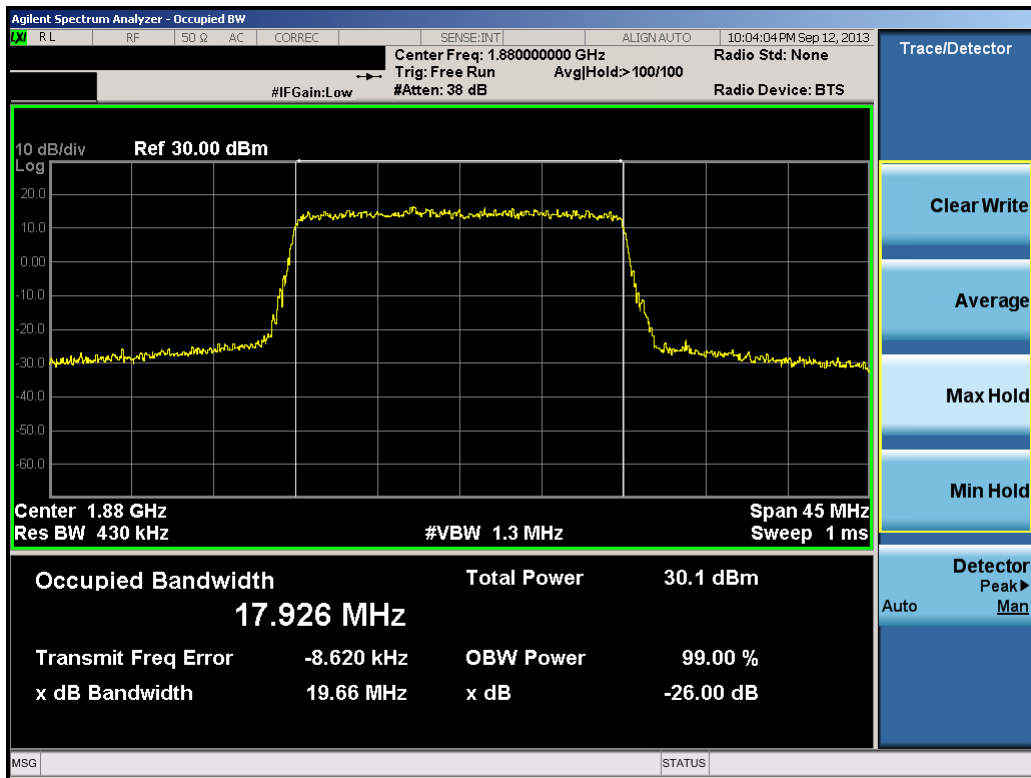


Plot 10-43. Lower Band Edge Plot (20.0MHz QPSK – RB Size 100)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 109 of 117

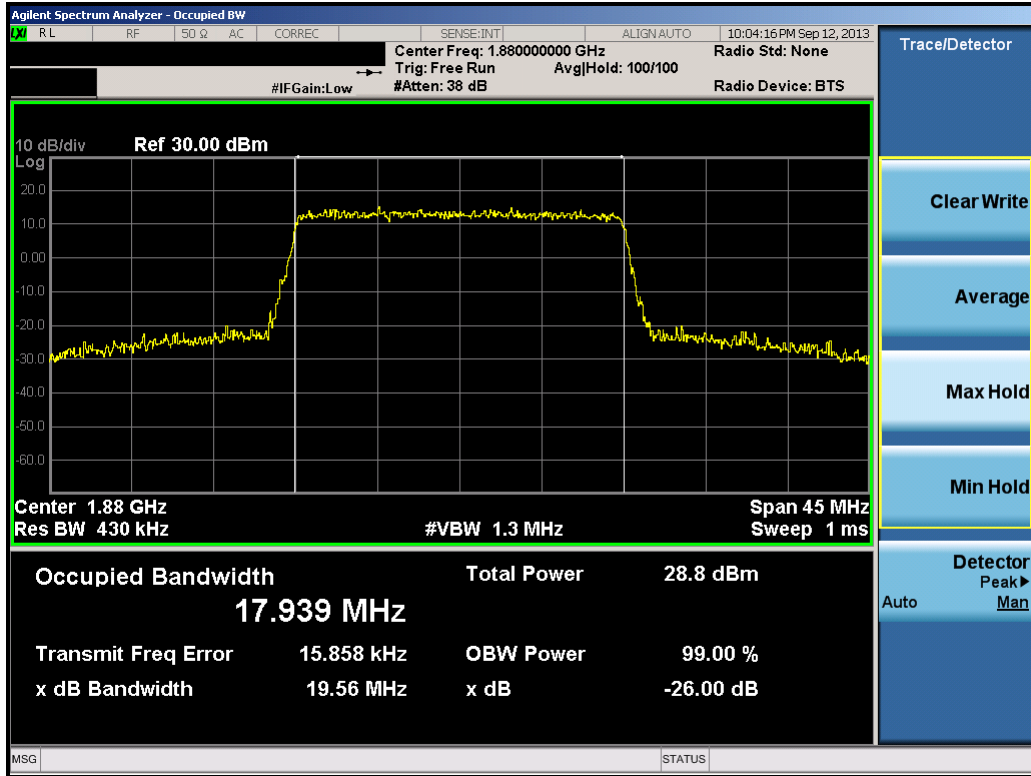


Plot 10-44. Lower Extended Band Edge Plot (20.0MHz QPSK – RB Size 100)

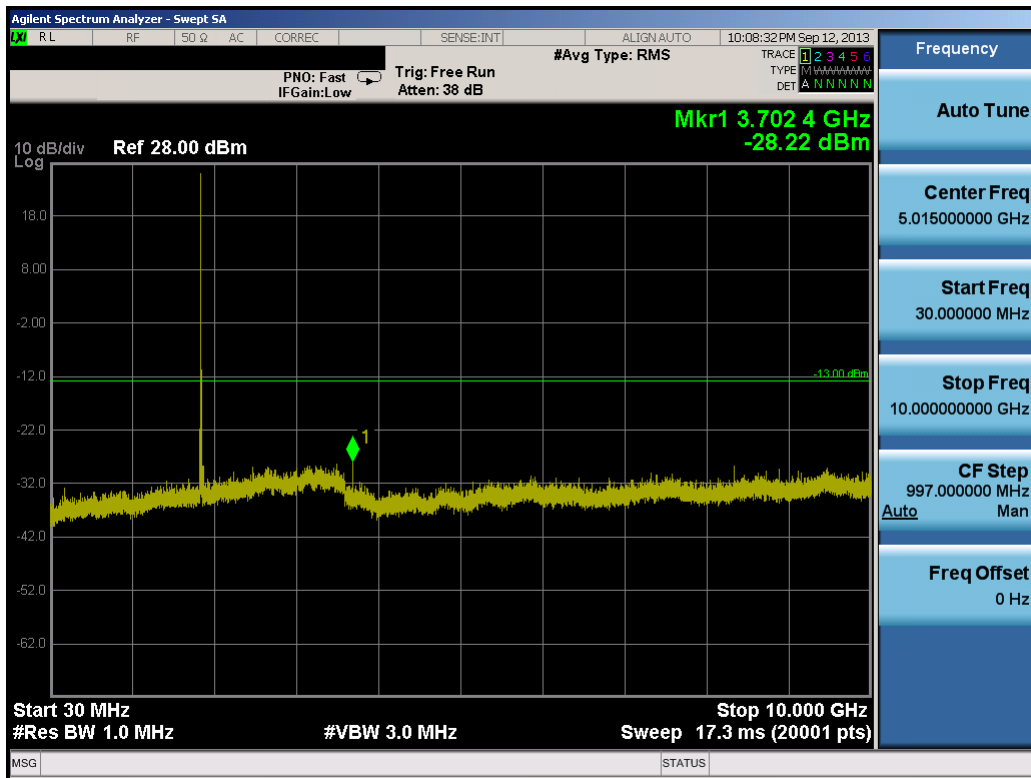


Plot 10-45. Occupied Bandwidth Plot (20.0MHz QPSK – RB Size 100)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 110 of 117

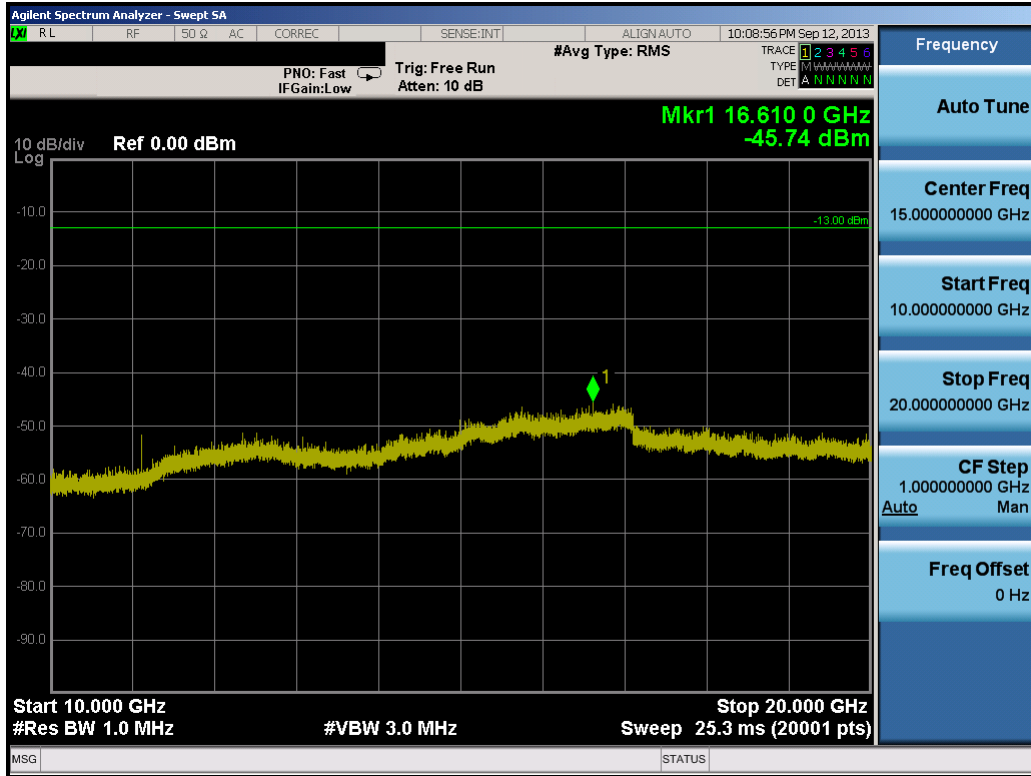


Plot 10-46. Occupied Bandwidth Plot (20.0MHz 16-QAM – RB Size 100)

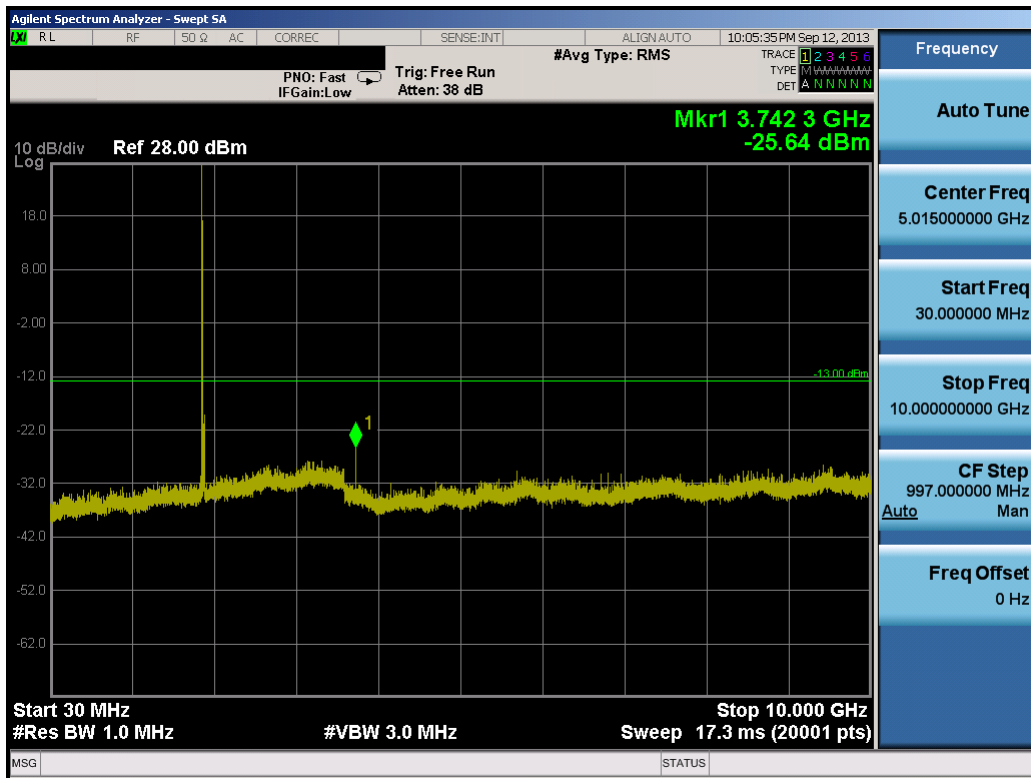


Plot 10-47. Conducted Spurious Plot (20.0MHz QPSK – RB Size 1, RB Offset 0– Low Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 111 of 117

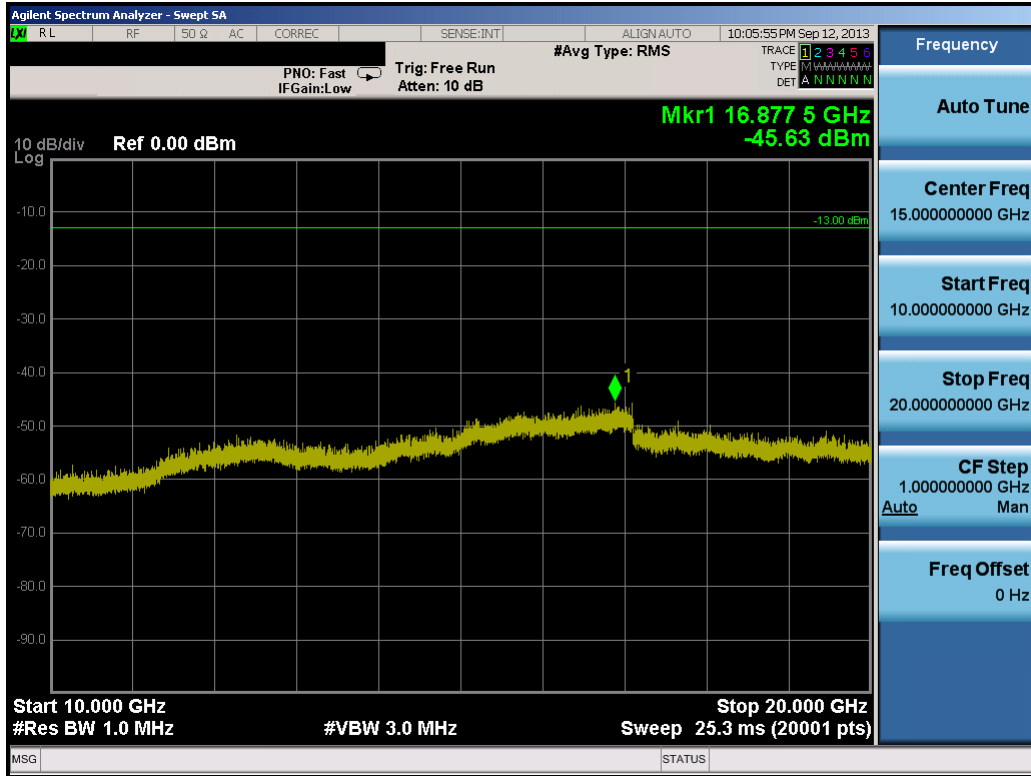


Plot 10-48. Conducted Spurious Plot (20.0MHz QPSK – RB Size 1, RB Offset 0 – Low Channel)

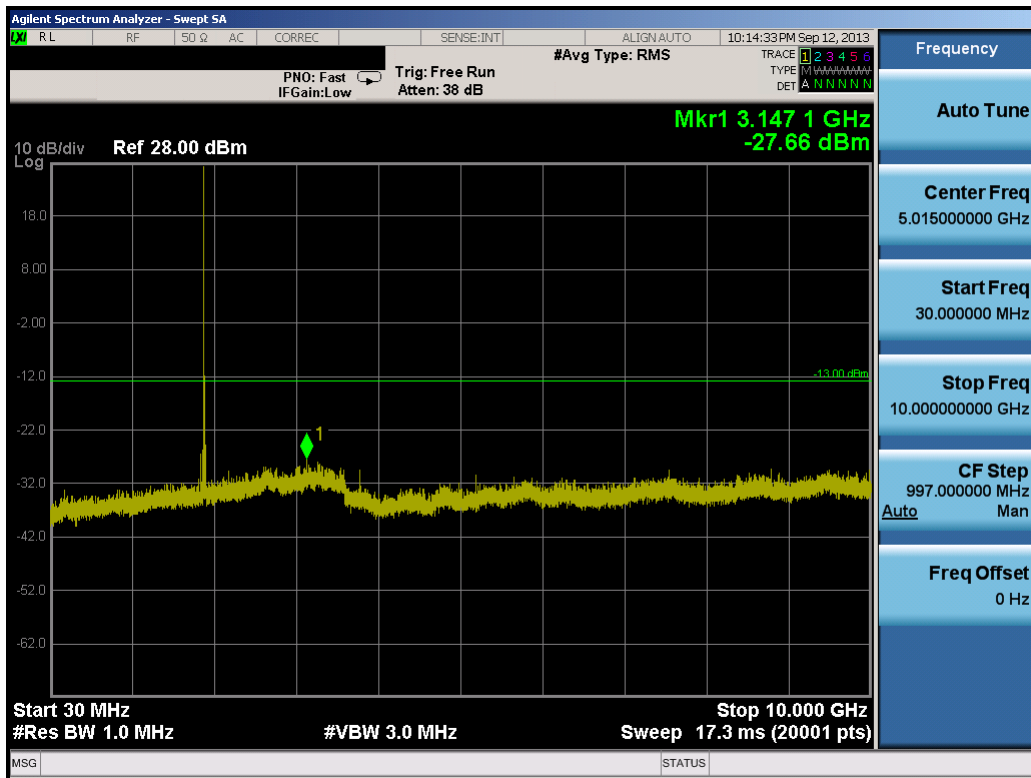


Plot 10-49. Conducted Spurious Plot (20.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

FCC ID: A3LSGHM819N	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 112 of 117

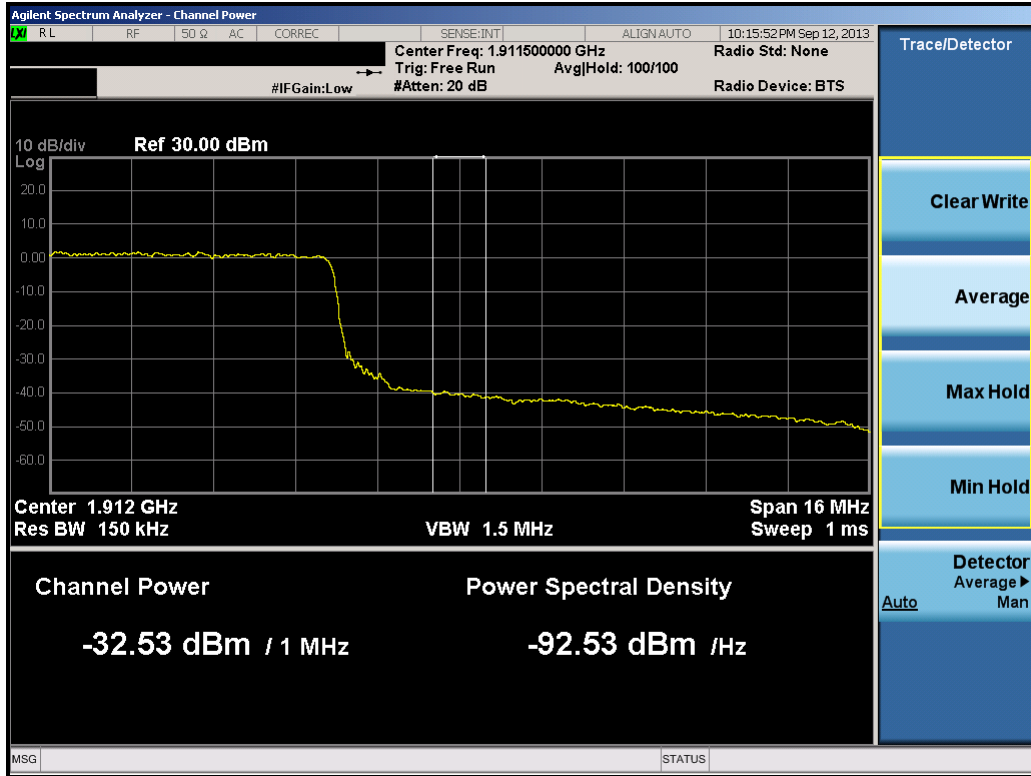


Plot 10-50. Conducted Spurious Plot (20.0MHz QPSK – RB Size 1, RB Offset 0 – Mid Channel)

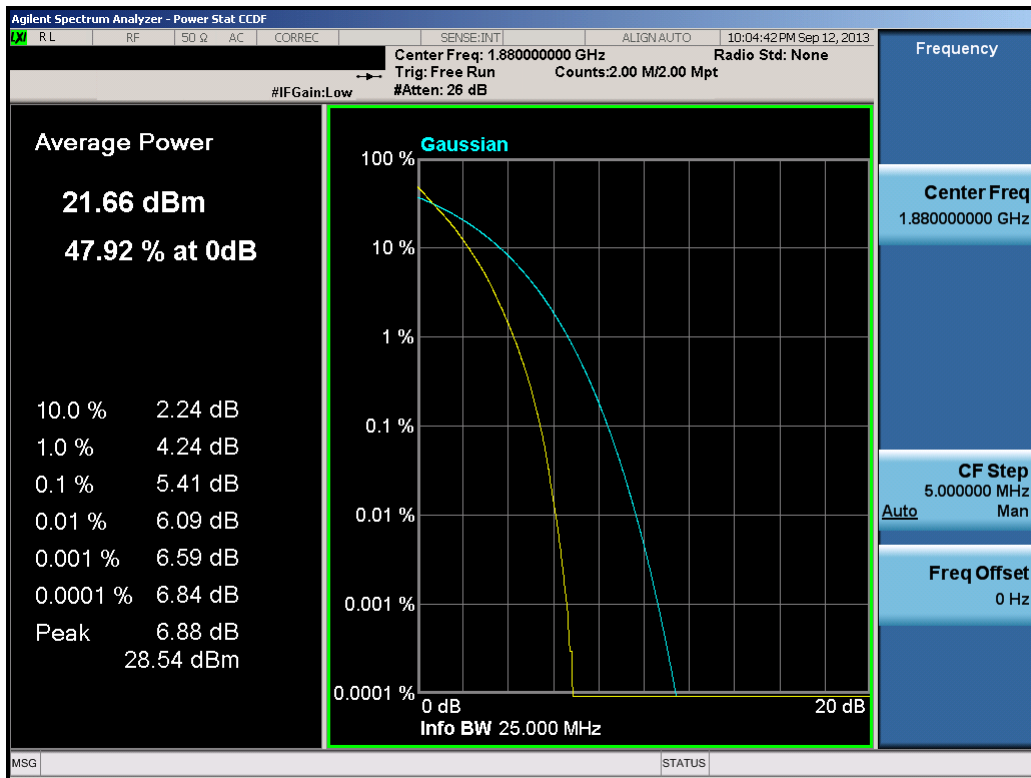


Plot 10-51. Conducted Spurious Plot (20.0MHz QPSK – RB Size 1, RB Offset 0 – High Channel)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 113 of 117

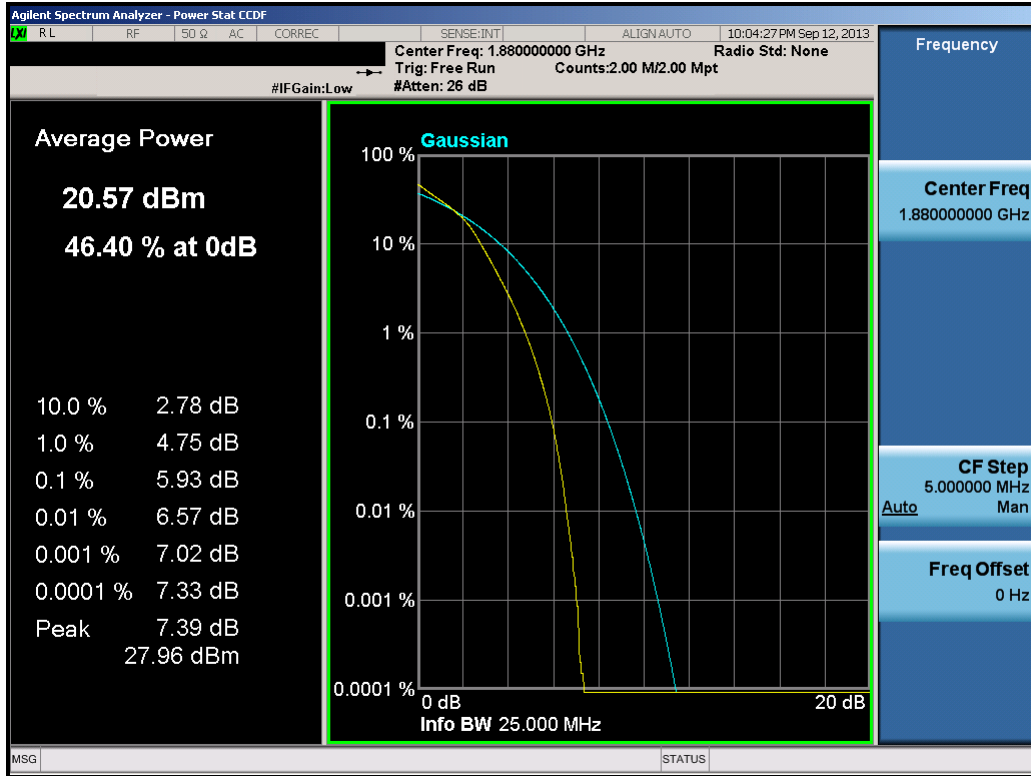


Plot 10-54. Upper Extended Band Edge Plot (20.0MHz QPSK – RB Size 100)



Plot 10-55. PAR Plot (20.0MHz QPSK – RB Size 100)

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Plot 10-56. PAR Plot (20.0MHz 16-QAM – RB Size 100)

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Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset		Page 116 of 117

11.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSGHM819N** complies with all the requirements of Parts 2, 22, 24, 27 of the FCC rules for LTE operation only.

FCC ID: A3LSGHM819N		FCC Pt. 22, 24, & 27 LTE MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1309091833.A3L	Test Dates: 9/12 - 9/20/2013	EUT Type: Portable Handset	Page 117 of 117	