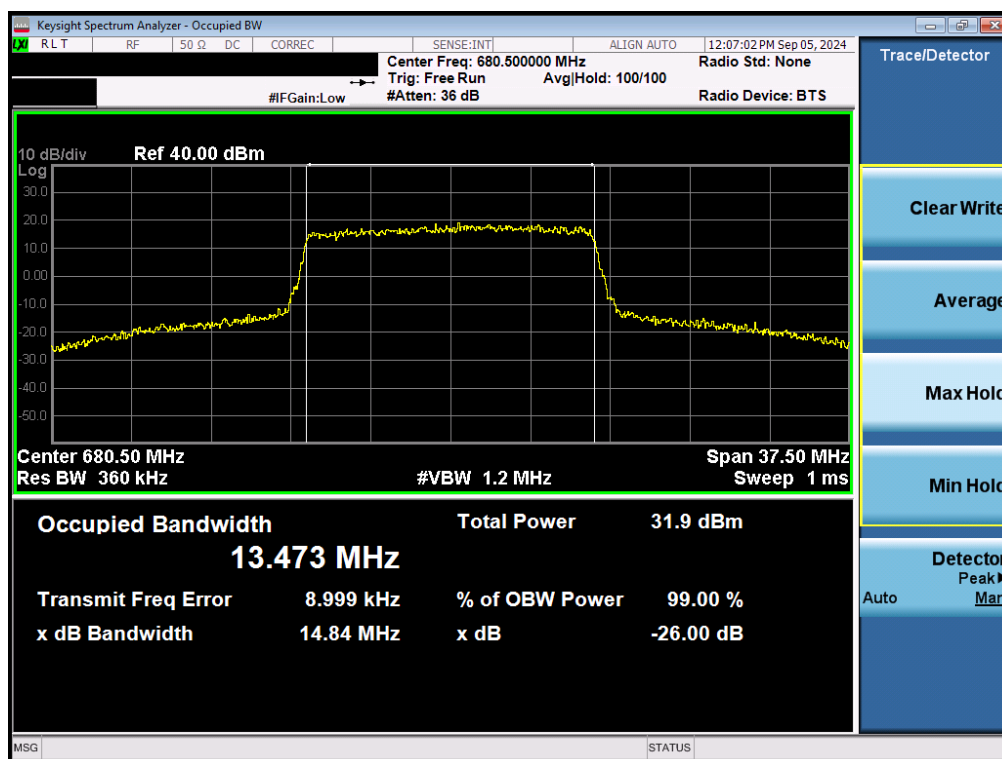




Plot 7-102. Occupied Bandwidth Plot (LTE Band 71 - 15MHz QPSK - Full RB – ANT2)



Plot 7-103. Occupied Bandwidth Plot (LTE Band 71 - 15MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 75 of 272

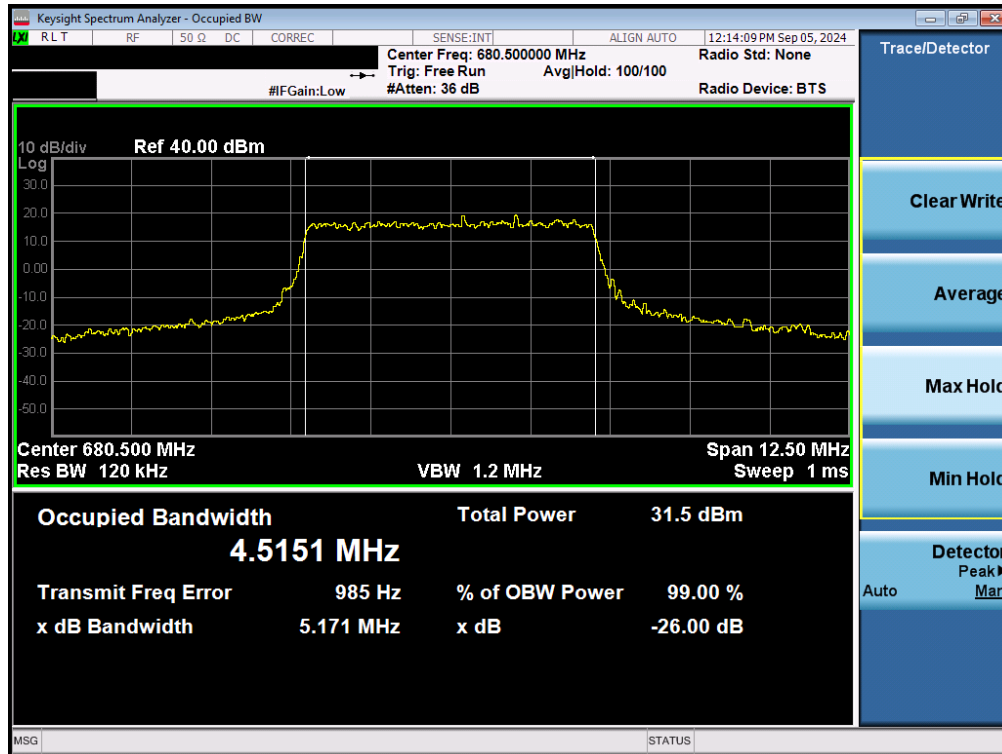


Plot 7-104. Occupied Bandwidth Plot (LTE Band 71 - 10MHz QPSK - Full RB – ANT2)

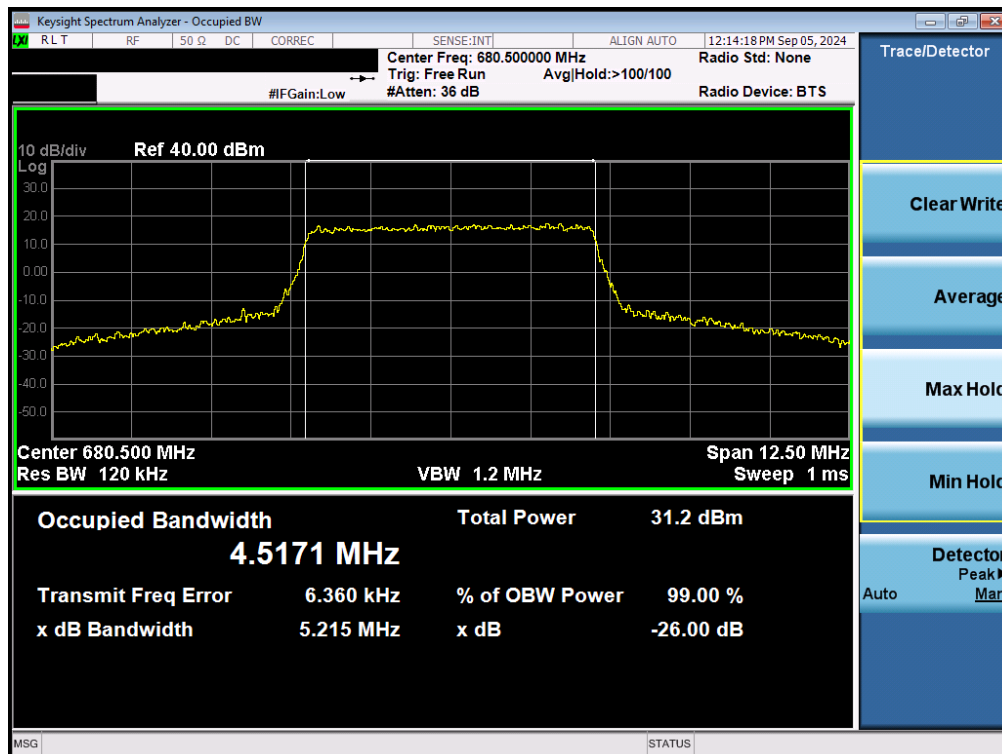


Plot 7-105. Occupied Bandwidth Plot (LTE Band 71 - 10MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 76 of 272



Plot 7-106. Occupied Bandwidth Plot (LTE Band 71 - 5MHz QPSK - Full RB – ANT2)



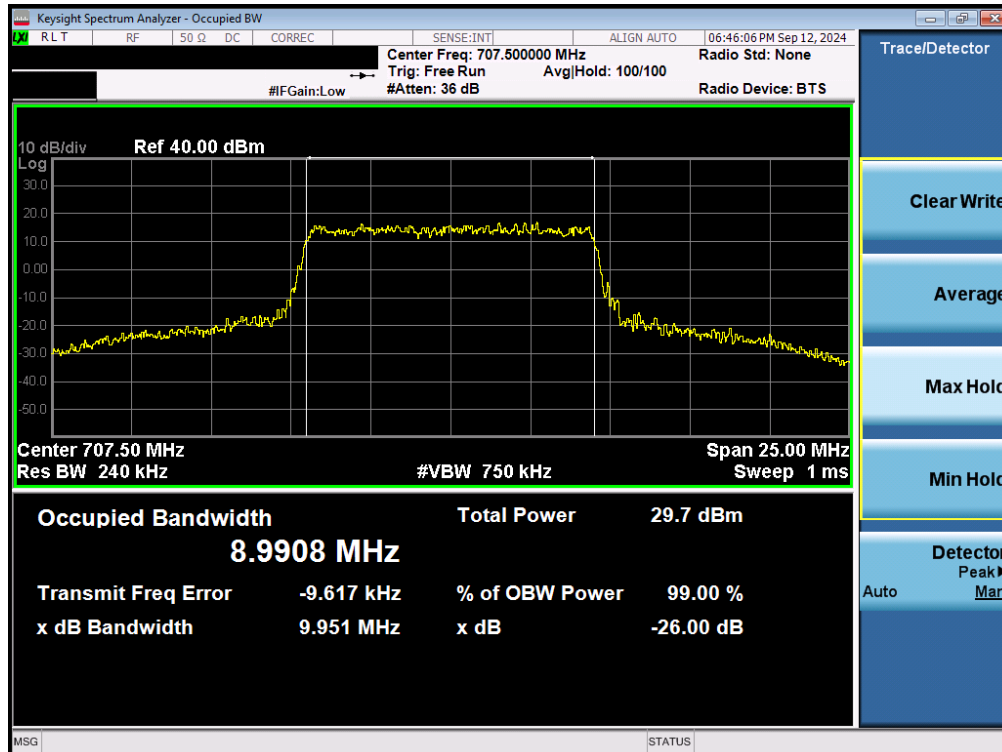
Plot 7-107. Occupied Bandwidth Plot (LTE Band 71 - 5MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 77 of 272

LTE Band 12 – ANT2

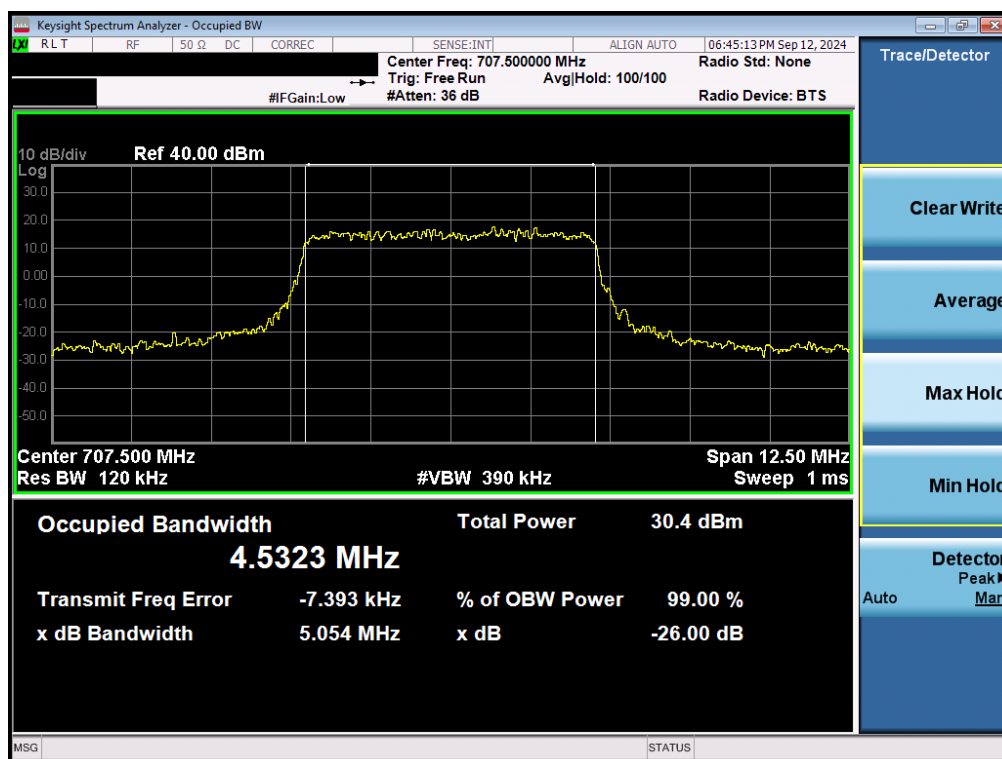


Plot 7-108. Occupied Bandwidth Plot (LTE Band 12 - 10MHz QPSK - Full RB – ANT2)



Plot 7-109. Occupied Bandwidth Plot (LTE Band 12 - 10MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 78 of 272

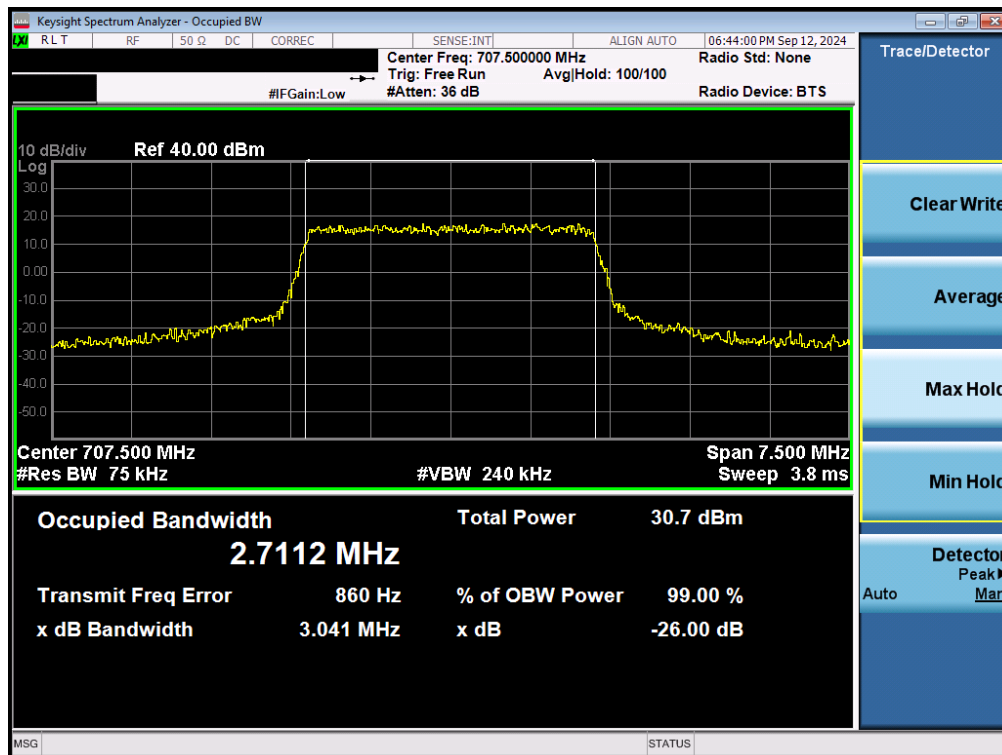


Plot 7-110. Occupied Bandwidth Plot (LTE Band 12 - 5MHz QPSK - Full RB – ANT2)

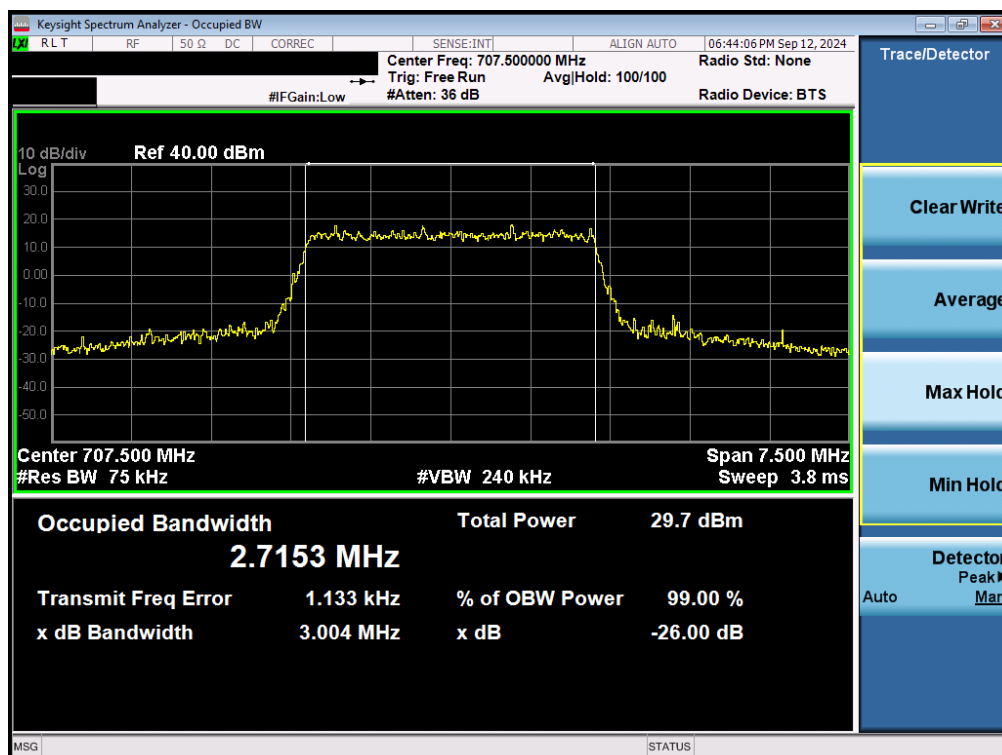


Plot 7-111. Occupied Bandwidth Plot (LTE Band 12 - 5MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 79 of 272

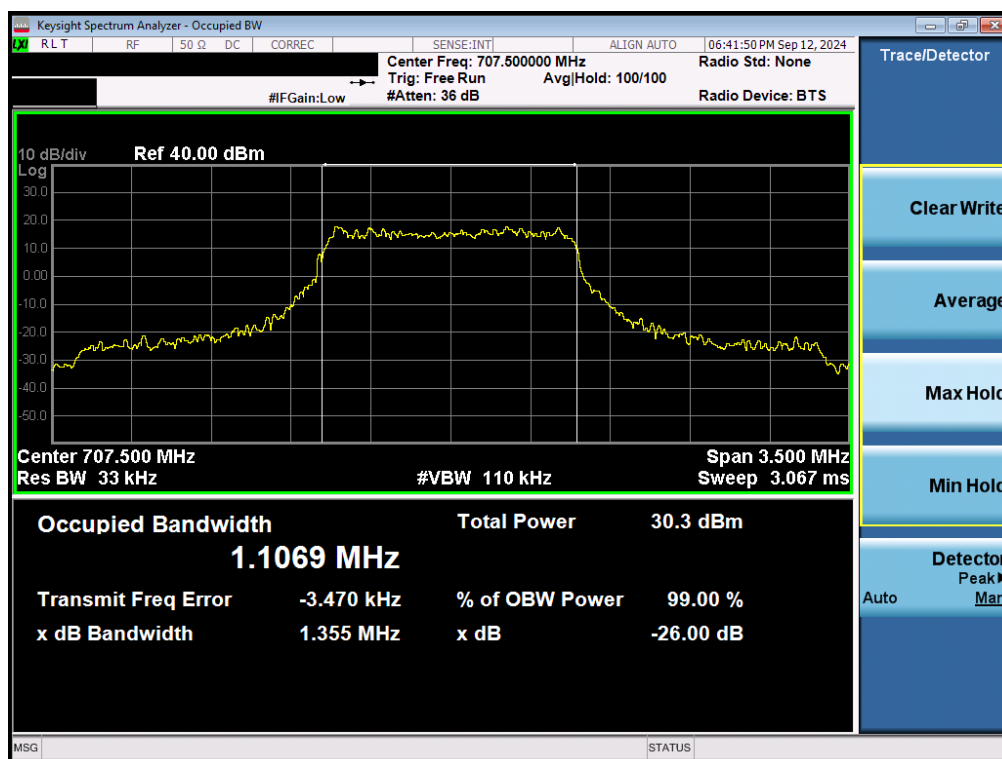


Plot 7-112. Occupied Bandwidth Plot (LTE Band 12 - 3MHz QPSK - Full RB – ANT2)

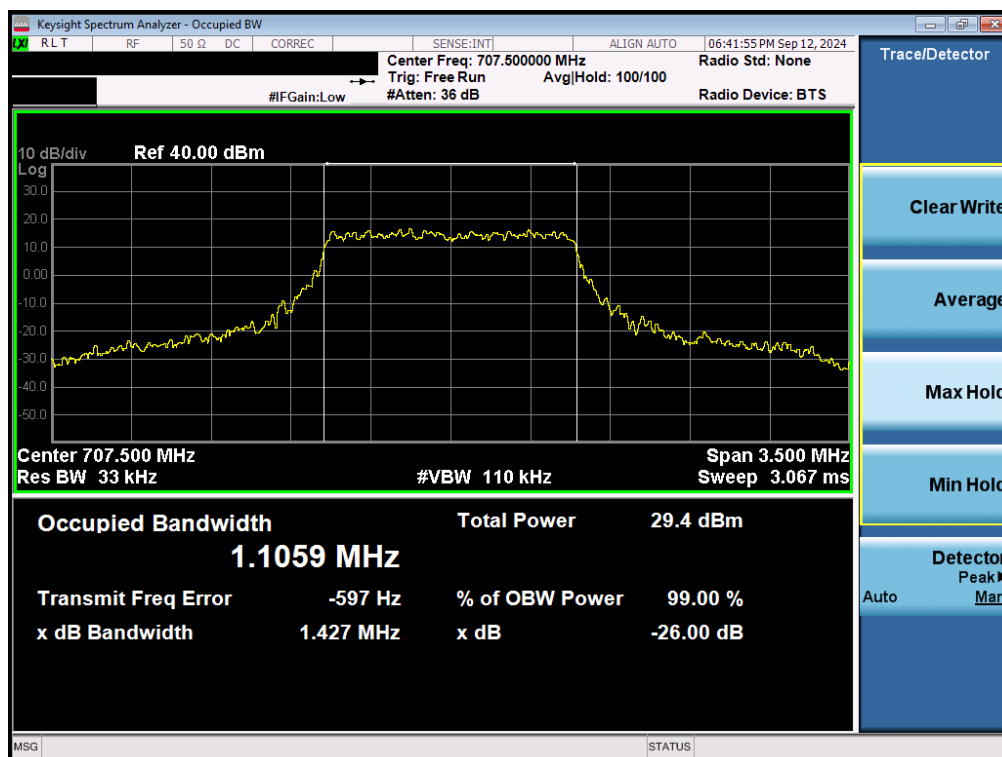


Plot 7-113. Occupied Bandwidth Plot (LTE Band 12 - 3MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 80 of 272



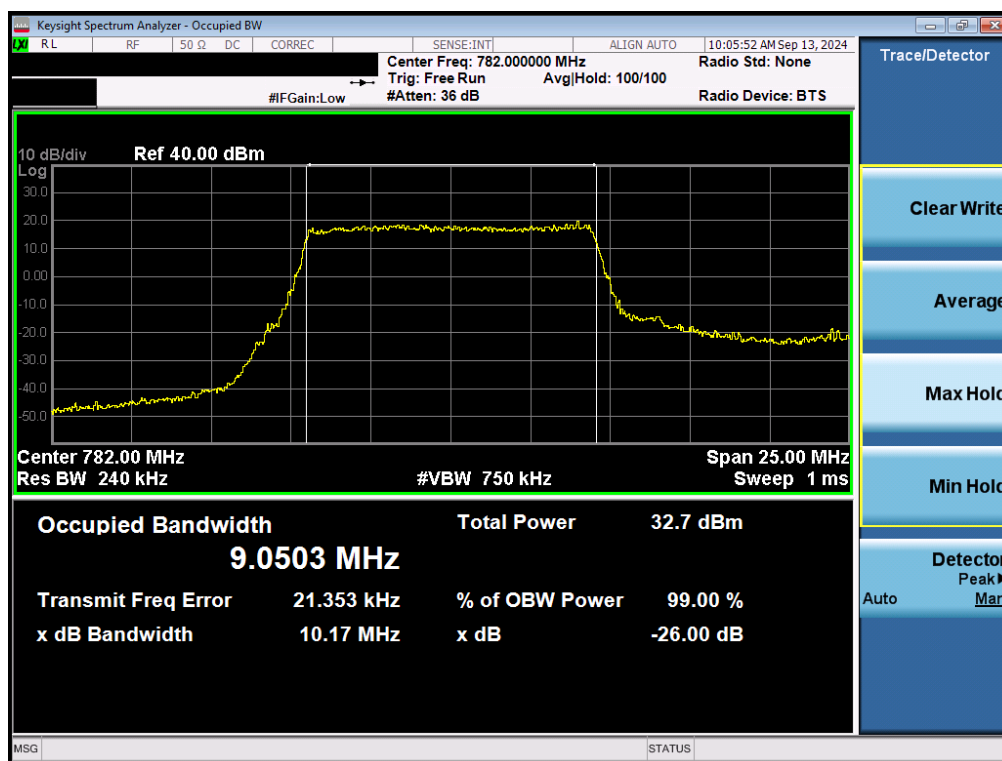
Plot 7-114. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz QPSK - Full RB – ANT2)



Plot 7-115. Occupied Bandwidth Plot (LTE Band 12 – 1.4MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 81 of 272

LTE Band 13 – ANT2

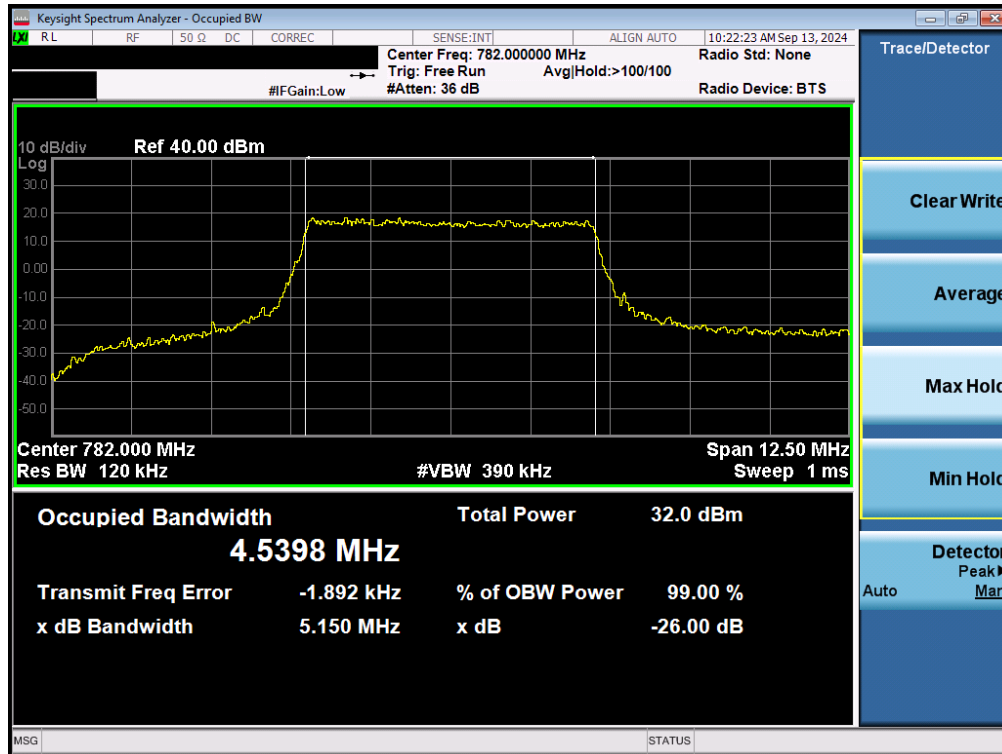


Plot 7-116. Occupied Bandwidth Plot (LTE Band 13 - 10MHz QPSK - Full RB – ANT2)

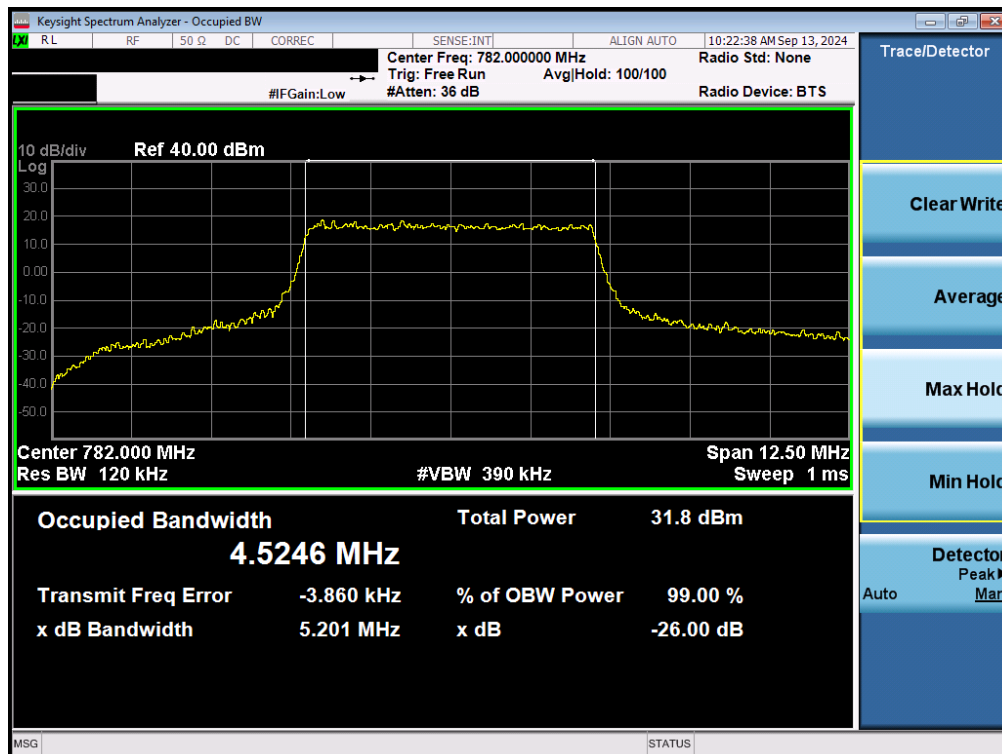


Plot 7-117. Occupied Bandwidth Plot (LTE Band 13 - 10MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 82 of 272



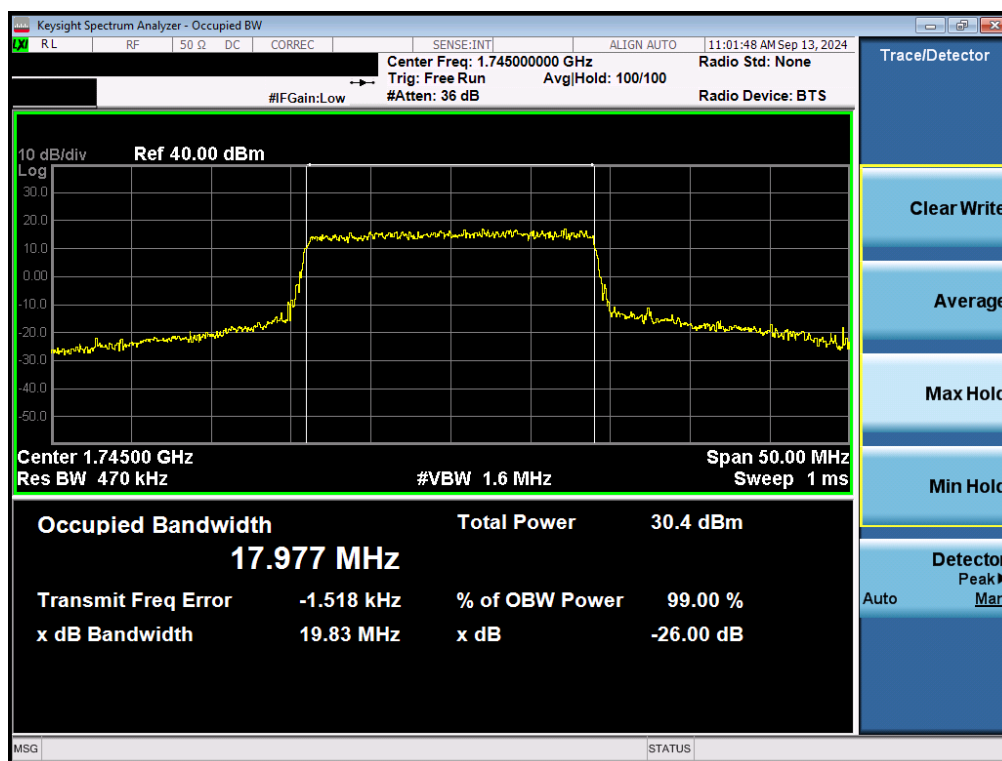
Plot 7-118. Occupied Bandwidth Plot (LTE Band 13 - 5MHz QPSK - Full RB – ANT2)



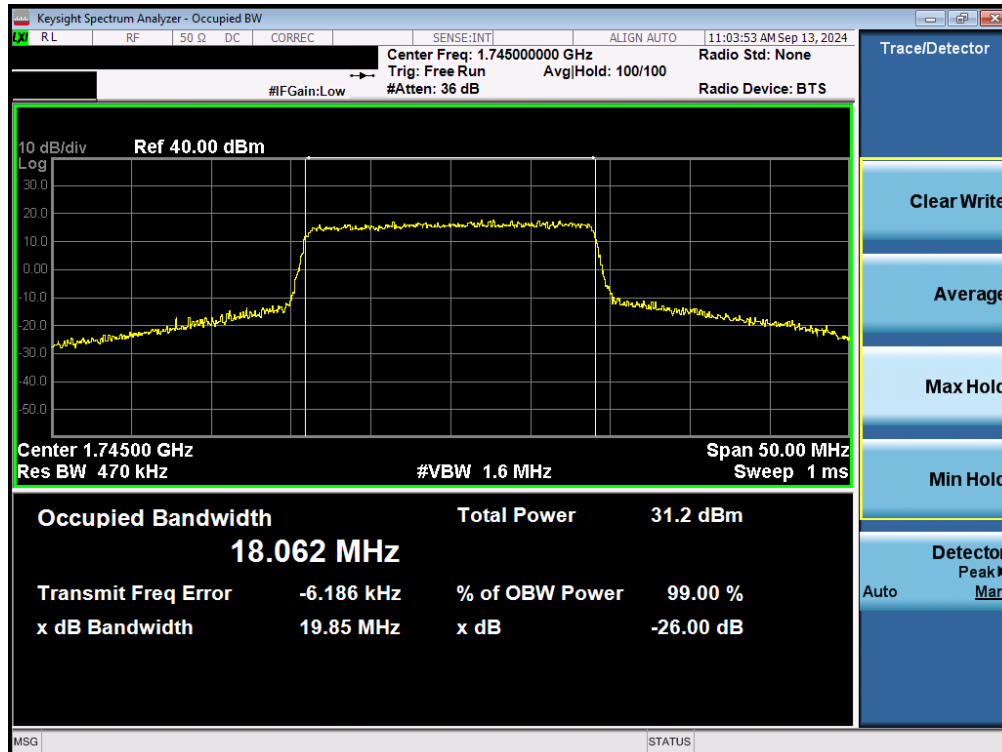
Plot 7-119. Occupied Bandwidth Plot (LTE Band 13 - 5MHz 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 83 of 272

LTE Band 66/4 - ANT2

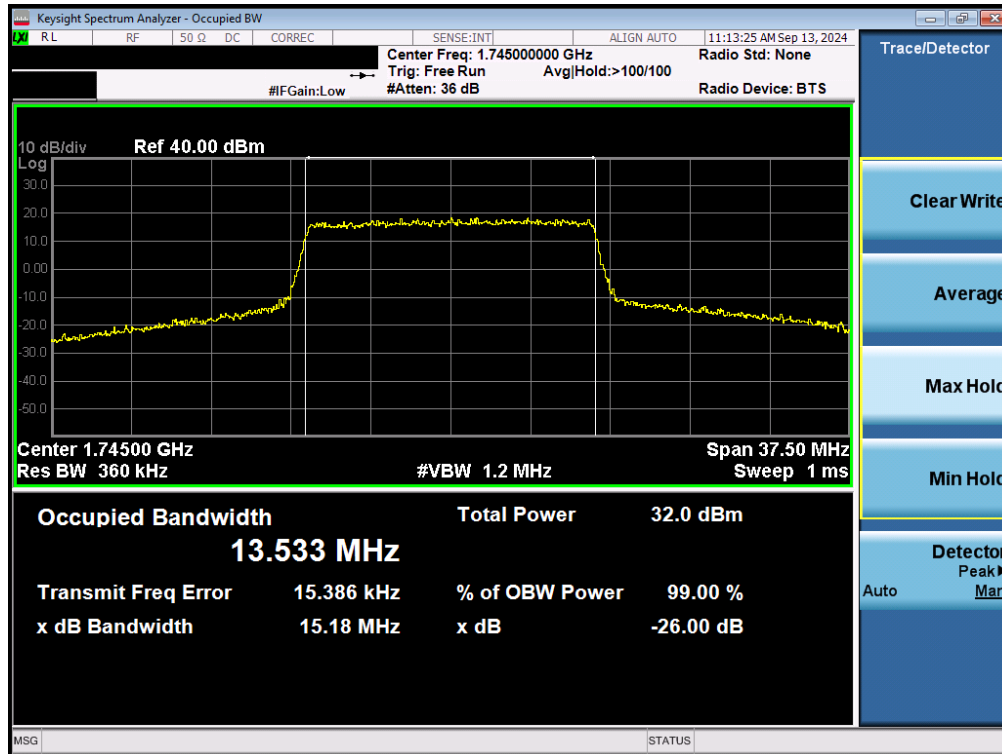


Plot 7-120. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - ANT2)

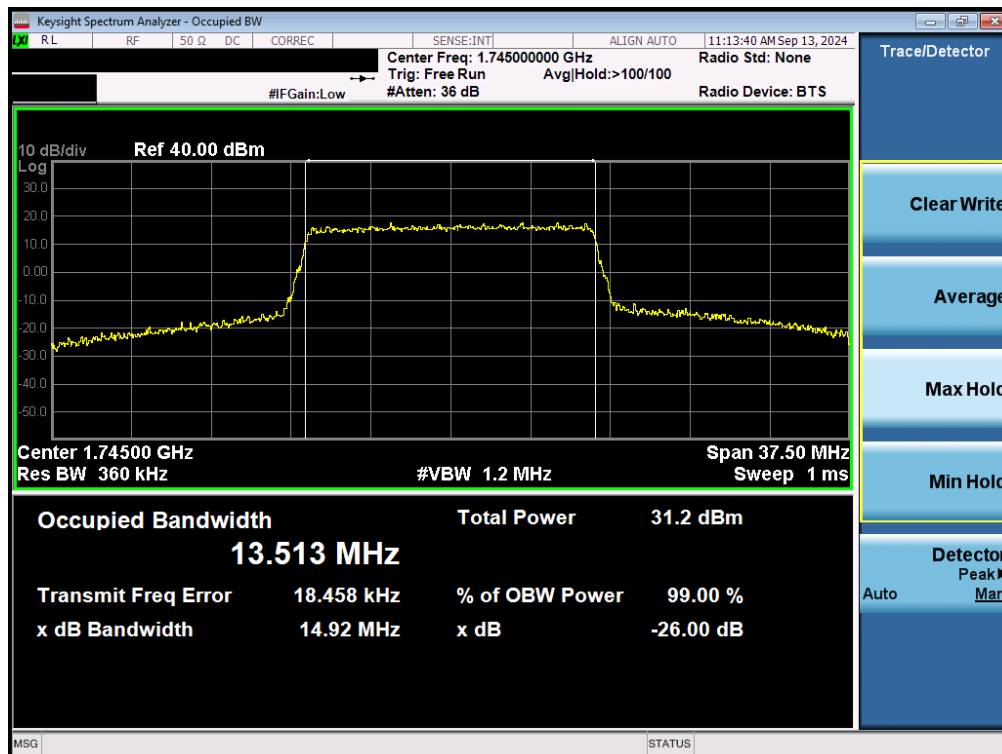


Plot 7-121. Occupied Bandwidth Plot (LTE Band 66/4 - 20MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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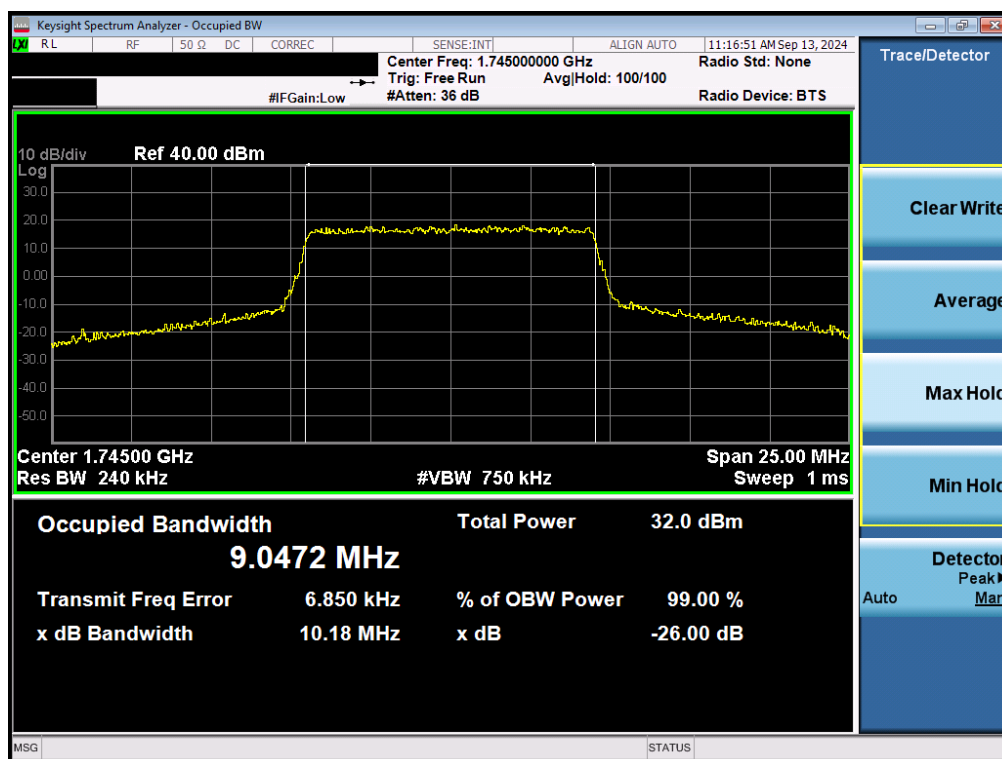


Plot 7-122. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz QPSK - Full RB - ANT2)

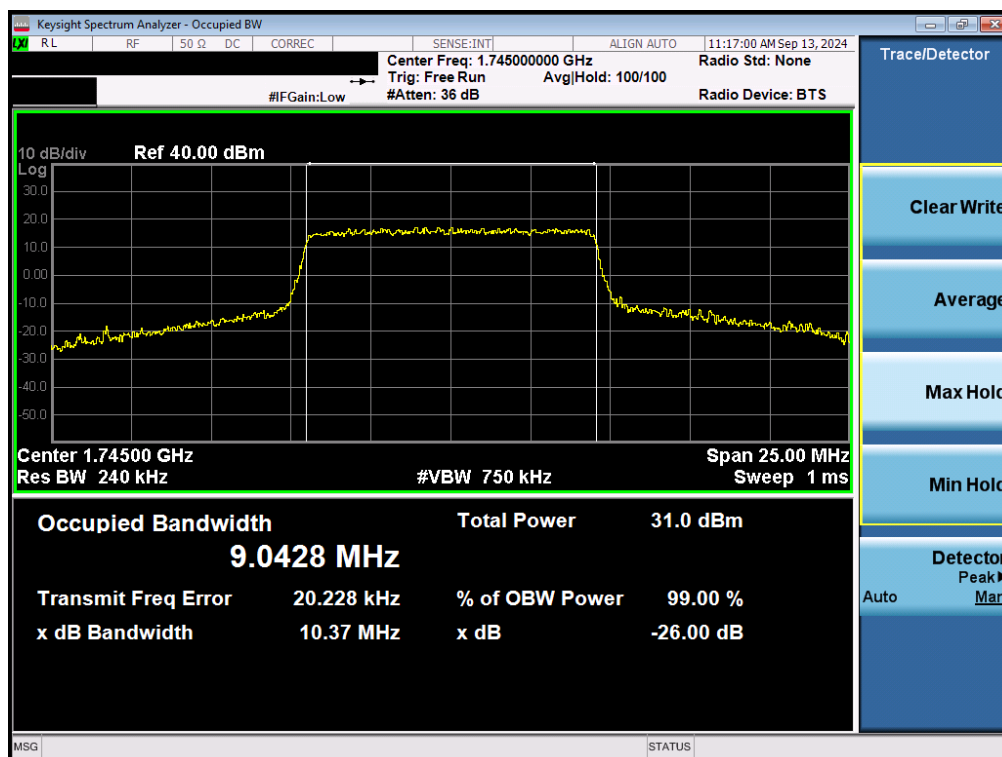


Plot 7-123. Occupied Bandwidth Plot (LTE Band 66/4 - 15MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 85 of 272

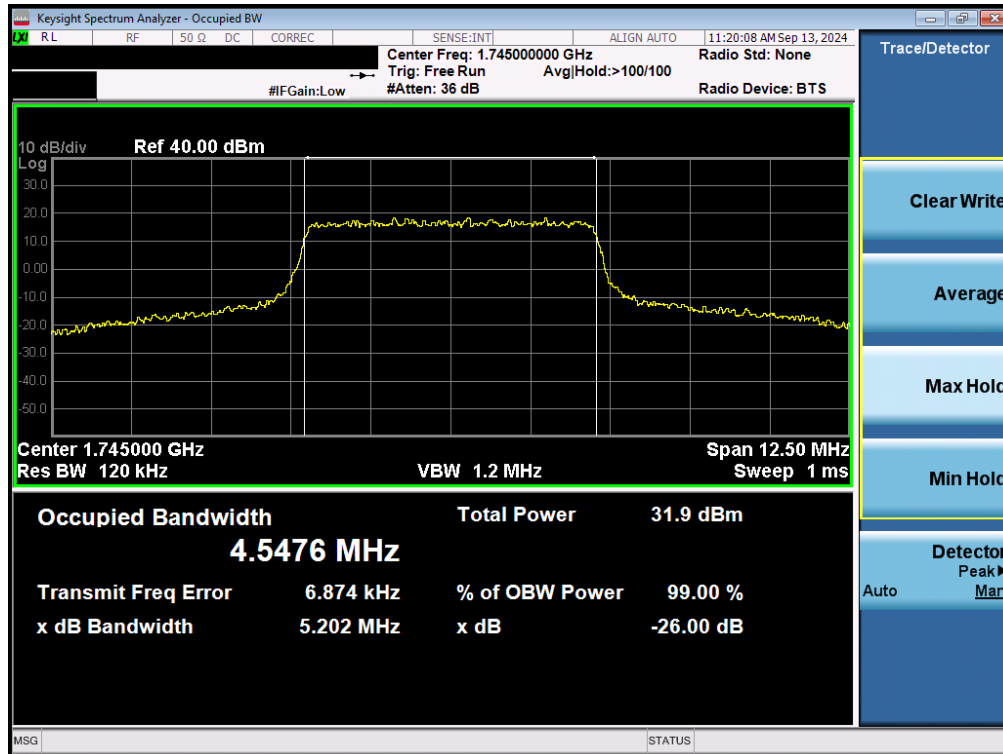


Plot 7-124. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz QPSK - Full RB - ANT2)

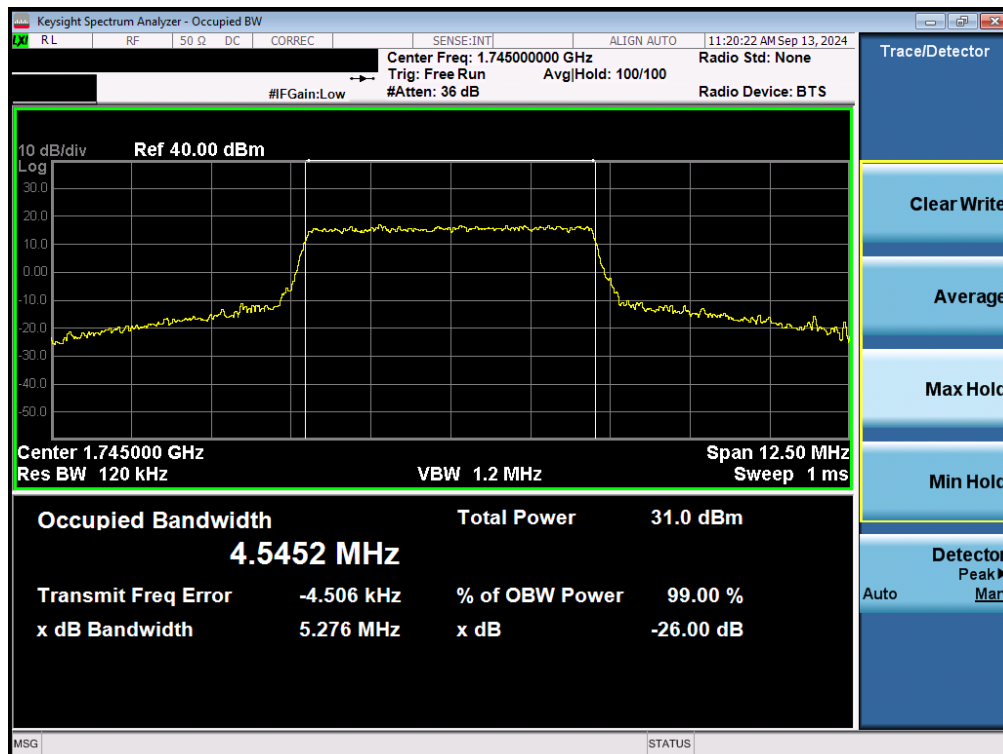


Plot 7-125. Occupied Bandwidth Plot (LTE Band 66/4 - 10MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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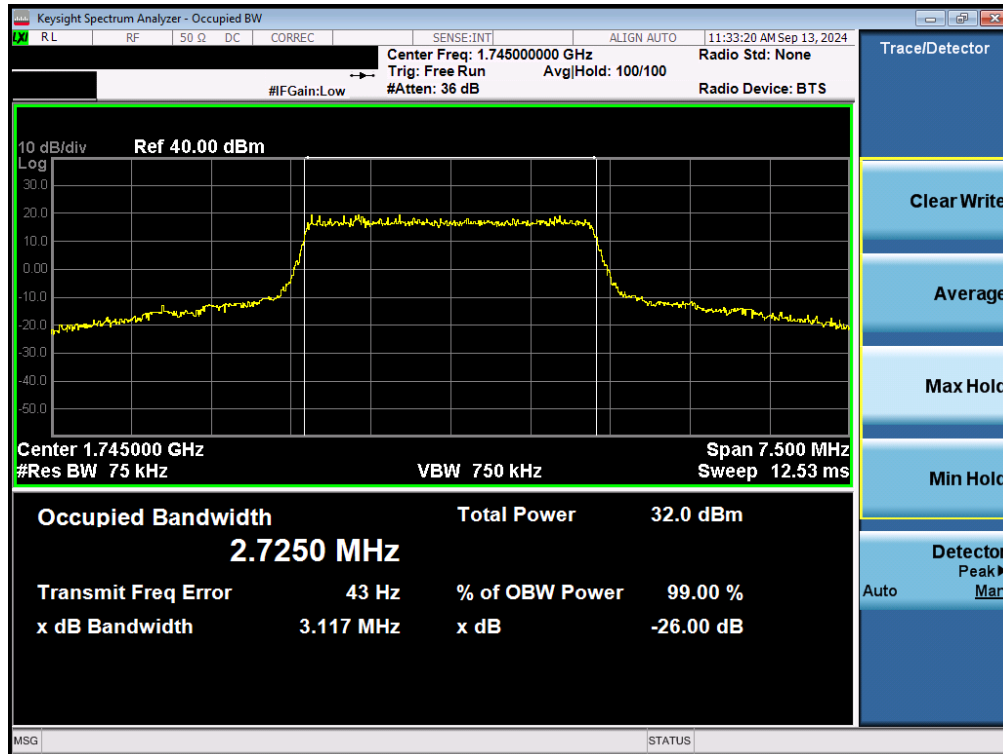


Plot 7-126. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz QPSK - Full RB - ANT2)

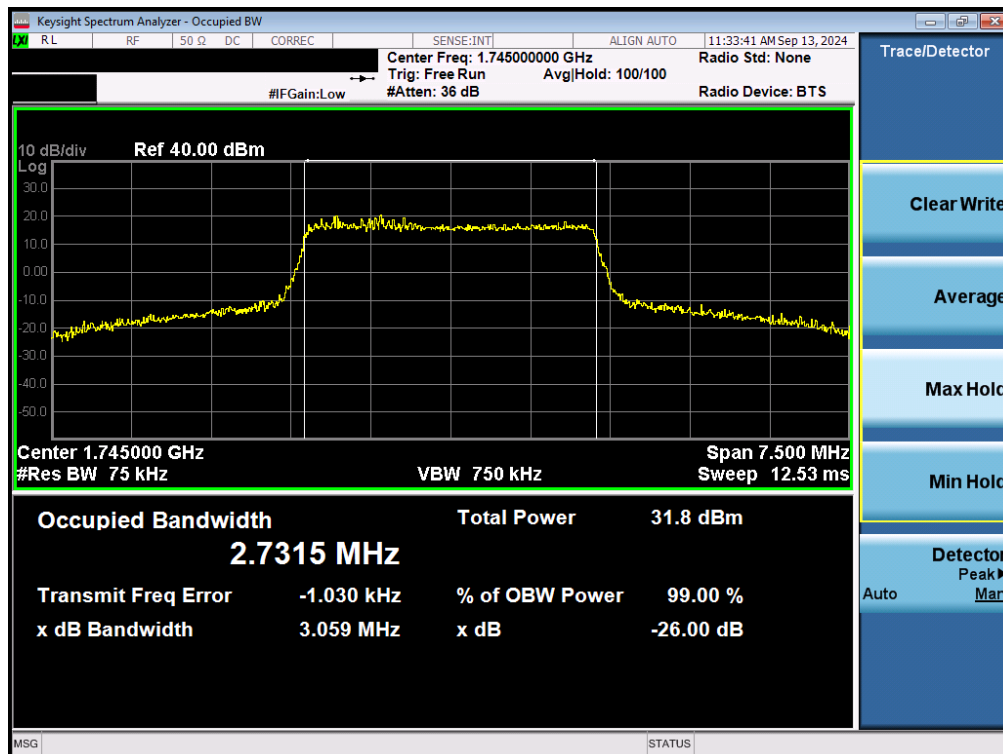


Plot 7-127. Occupied Bandwidth Plot (LTE Band 66/4 - 5MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 87 of 272

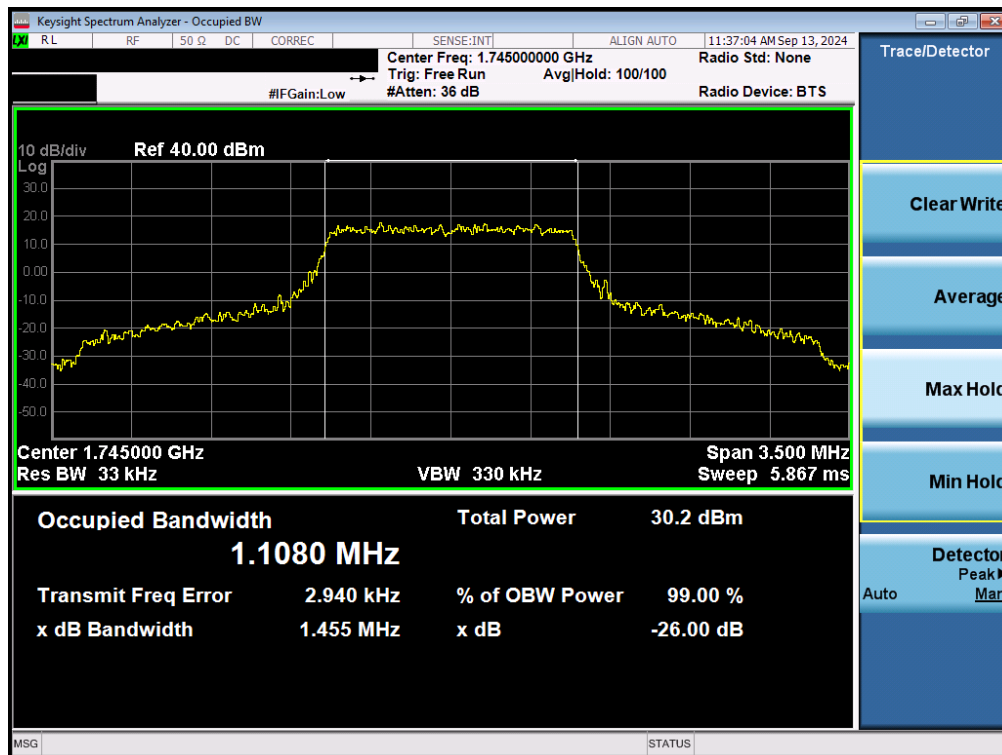


Plot 7-128. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz QPSK - Full RB - ANT2)

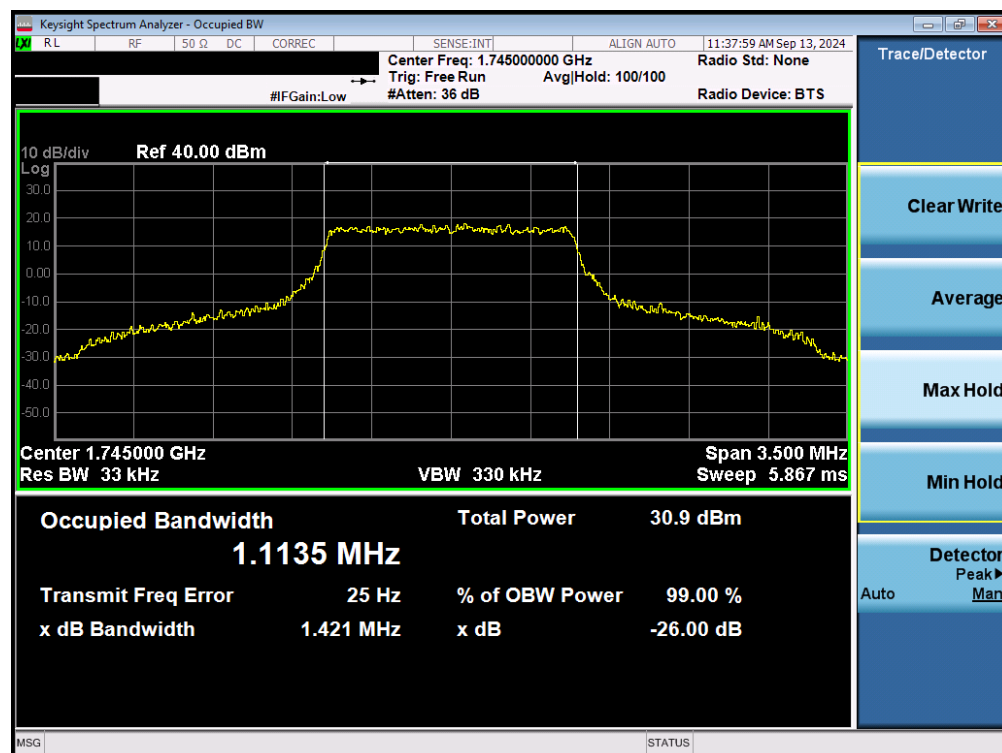


Plot 7-129. Occupied Bandwidth Plot (LTE Band 66/4 - 3MHz 16-QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 88 of 272



Plot 7-130. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB - ANT2)



Plot 7-131. Occupied Bandwidth Plot (LTE Band 66/4 - 1.4MHz 16-QAM - Full RB - ANT2)

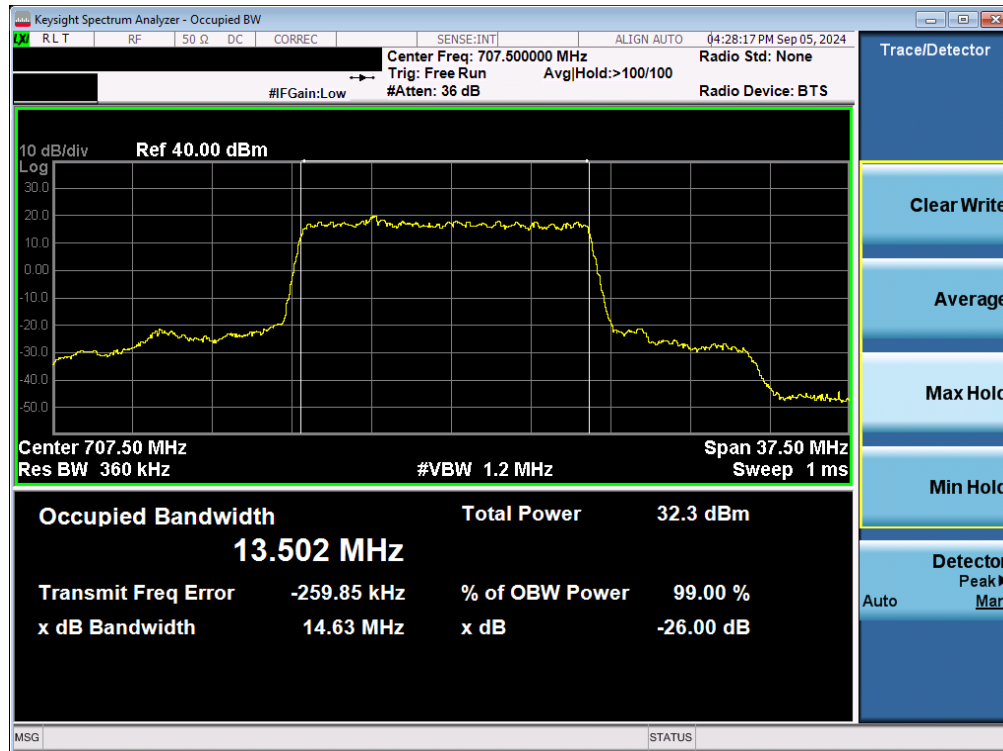
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 89 of 272

Mode	Bandwidth	Modulation	OBW [MHz]
NR-n12	15MHz	$\pi/2$ BPSK	13.50
		QPSK	14.19
		16QAM	14.21
	10MHz	$\pi/2$ BPSK	8.98
		QPSK	9.33
		16QAM	9.34
	5MHz	$\pi/2$ BPSK	4.52
		QPSK	4.53
		16QAM	4.53
NR-n71	35MHz	$\pi/2$ BPSK	32.40
		QPSK	33.83
		16QAM	33.76
	30MHz	$\pi/2$ BPSK	28.78
		QPSK	28.80
		16QAM	28.87
	25MHz	$\pi/2$ BPSK	23.04
		QPSK	23.91
		16QAM	23.92
	20MHz	$\pi/2$ BPSK	17.91
		QPSK	18.98
		16QAM	19.01
	15MHz	$\pi/2$ BPSK	13.45
		QPSK	14.17
		16QAM	14.19
	10MHz	$\pi/2$ BPSK	8.97
		QPSK	9.35
		16QAM	9.34
	5MHz	$\pi/2$ BPSK	4.54
		QPSK	4.52
		16QAM	4.59
NR-n70	15MHz	$\pi/2$ BPSK	13.48
		QPSK	14.17
		16QAM	14.21
	10MHz	$\pi/2$ BPSK	8.99
		QPSK	9.36
		16QAM	9.37
	5MHz	$\pi/2$ BPSK	4.52
		QPSK	4.54
		16QAM	4.61
NR-n66	45MHz	$\pi/2$ BPSK	42.97
		QPSK	43.43
		16QAM	43.31
	40MHz	$\pi/2$ BPSK	38.52
		QPSK	38.67
		16QAM	38.57
	35MHz	$\pi/2$ BPSK	32.26
		QPSK	33.72
		16QAM	33.63
	30MHz	$\pi/2$ BPSK	28.65
		QPSK	28.66
		16QAM	28.64
	20MHz	$\pi/2$ BPSK	17.94
		QPSK	18.98
		16QAM	19.02
	15MHz	$\pi/2$ BPSK	13.48
		QPSK	14.21
		16QAM	14.19
	10MHz	$\pi/2$ BPSK	9.00
		QPSK	9.37
		16QAM	9.38
	5MHz	$\pi/2$ BPSK	4.52
		QPSK	4.55
		16QAM	4.54

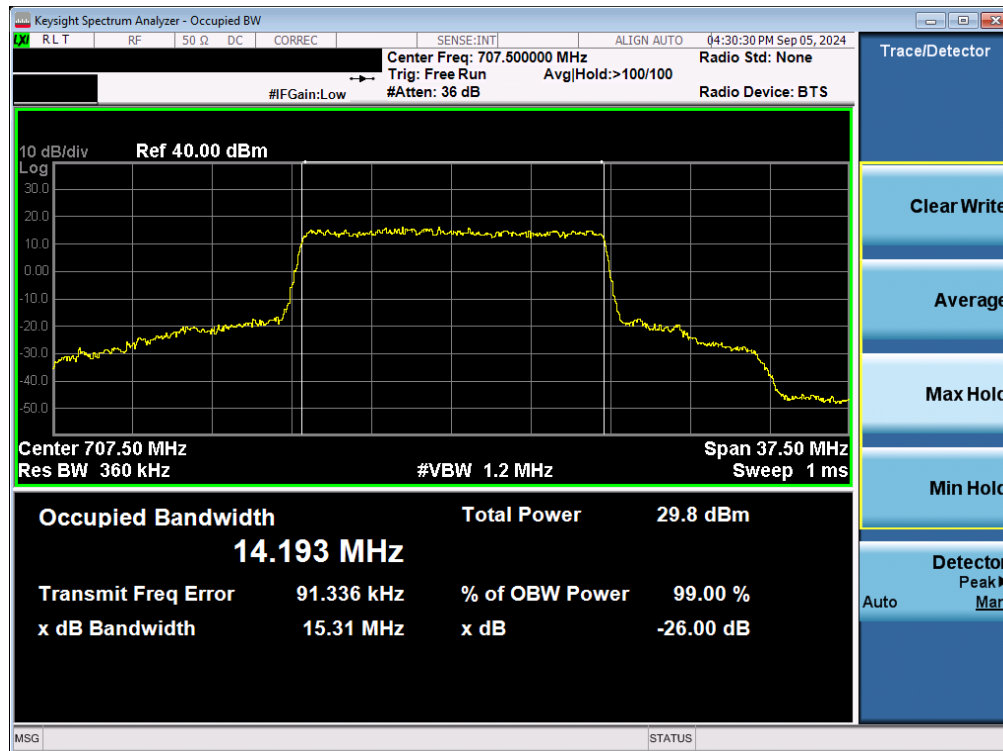
Table 7-8. Occupied Bandwidth Results – Ant2

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n12 – ANT2



Plot 7-132. Occupied Bandwidth Plot (NR Band n12 - 15MHz DFT-s-OFDM BPSK - Full RB – ANT2)

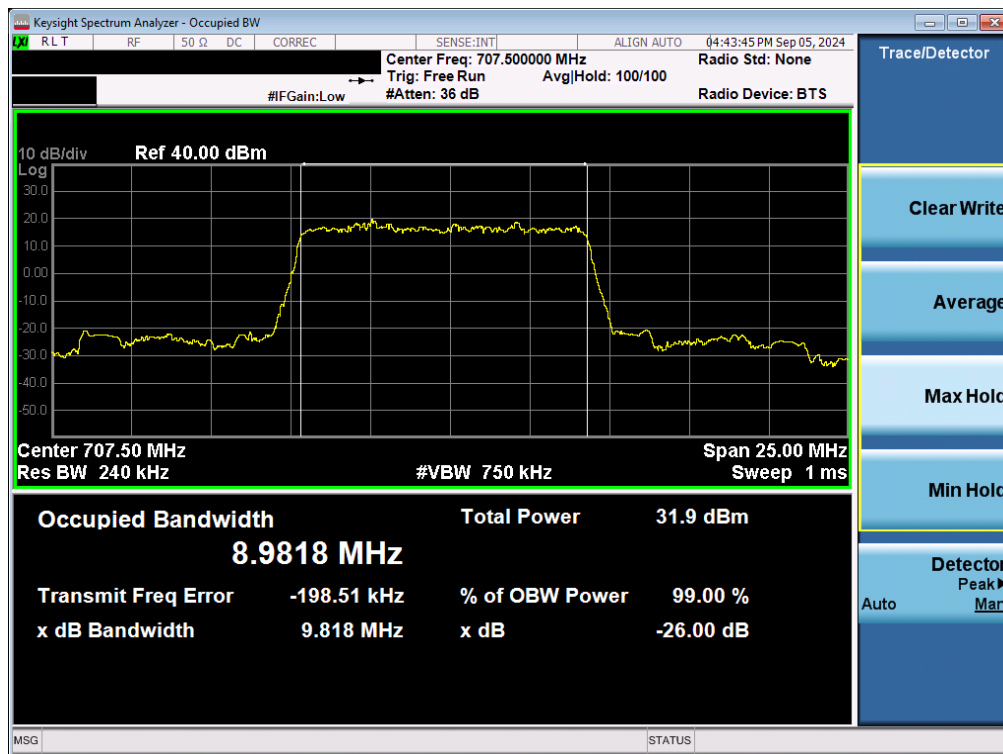


Plot 7-133. Occupied Bandwidth Plot (NR Band n12 - 15MHz QPSK - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-134. Occupied Bandwidth Plot (NR Band n12 - 15MHz CP-OFDM 16-QAM - Full RB – ANT2)

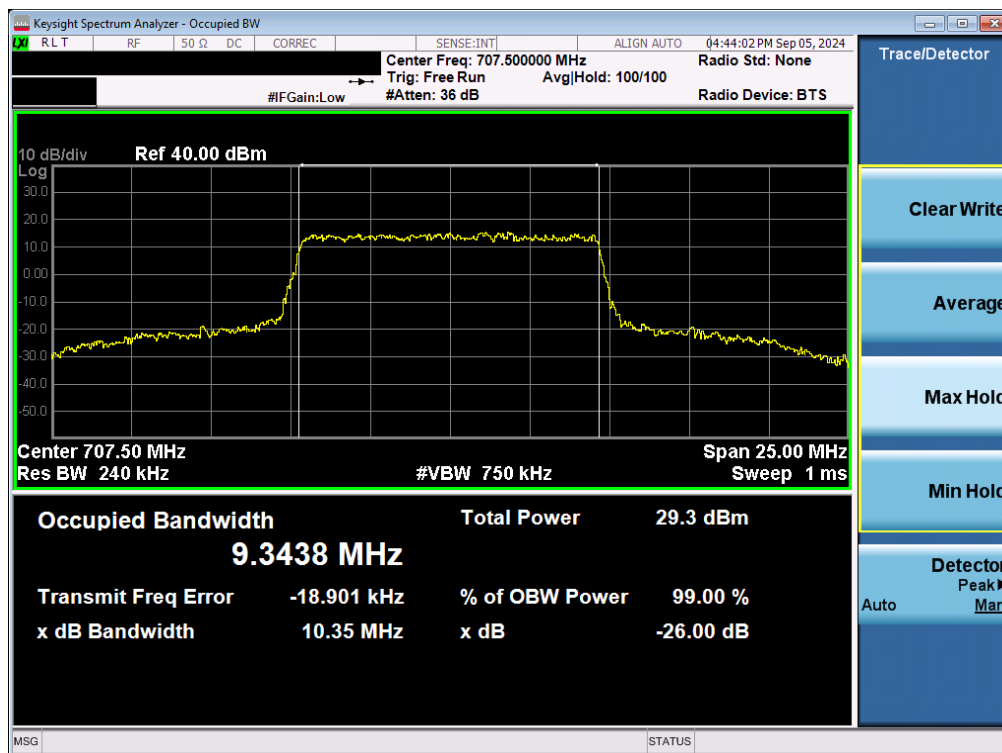


Plot 7-135. Occupied Bandwidth Plot (NR Band n12 - 10MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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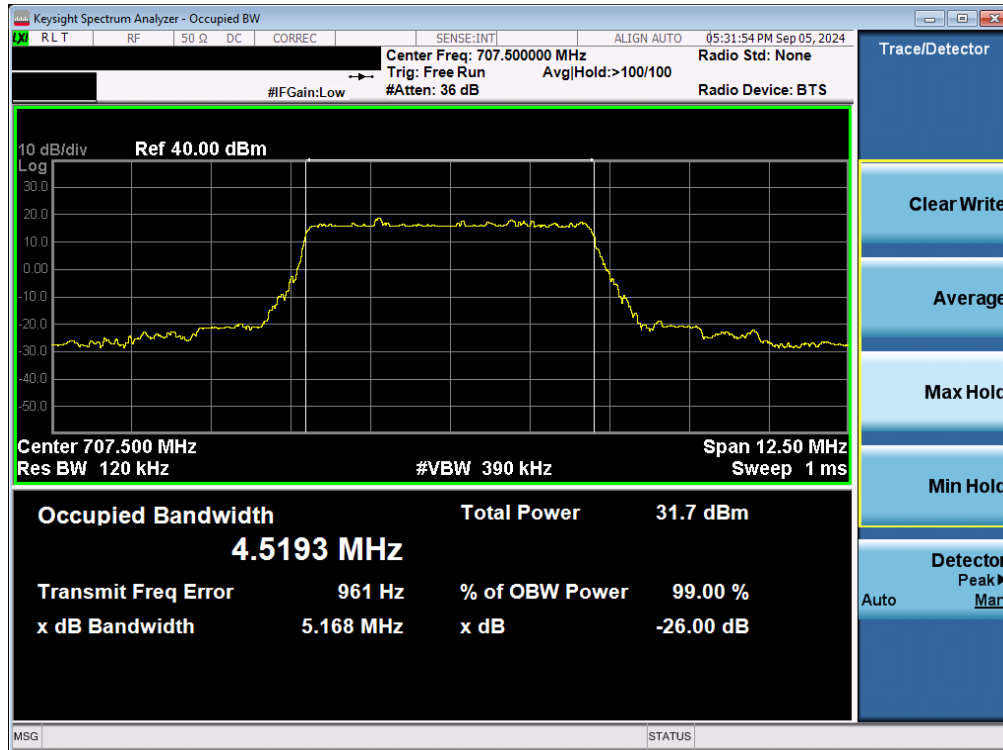


Plot 7-136. Occupied Bandwidth Plot (NR Band n12 - 10MHz CP-OFDM QPSK - Full RB - ANT2)

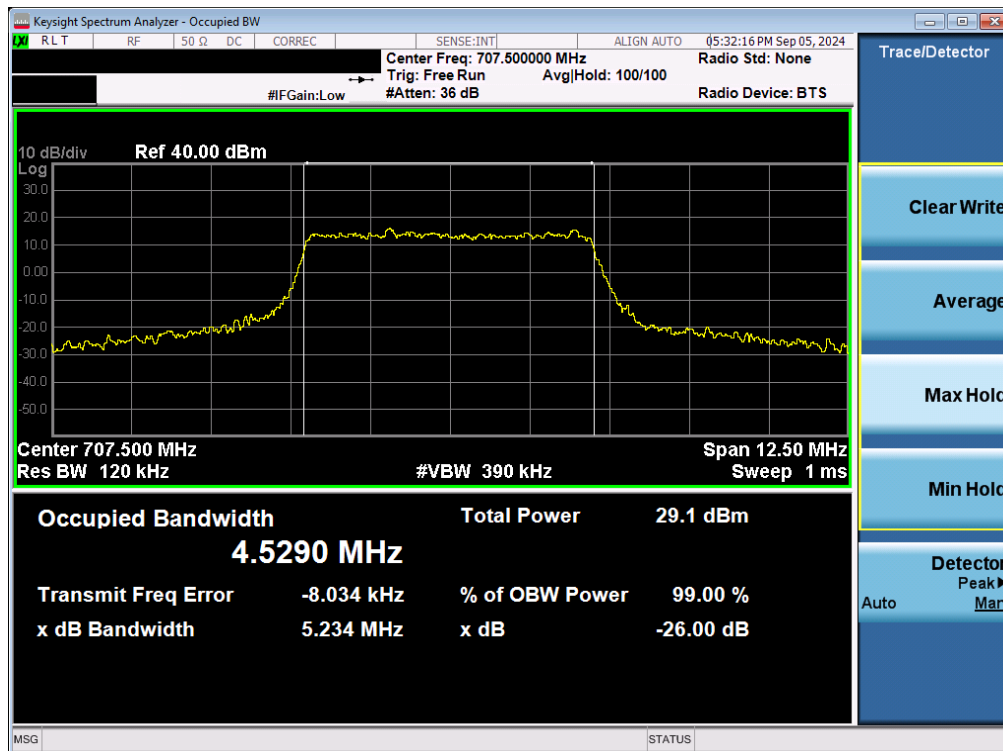


Plot 7-137. Occupied Bandwidth Plot (NR Band n12 - 10MHz CP-OFDM 16-QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-138. Occupied Bandwidth Plot (NR Band n12 - 5MHz DFT-s-OFDM BPSK - Full RB – ANT2)



Plot 7-139. Occupied Bandwidth Plot (NR Band n12 - 5MHz CP-OFDM QPSK - Full RB – ANT2)

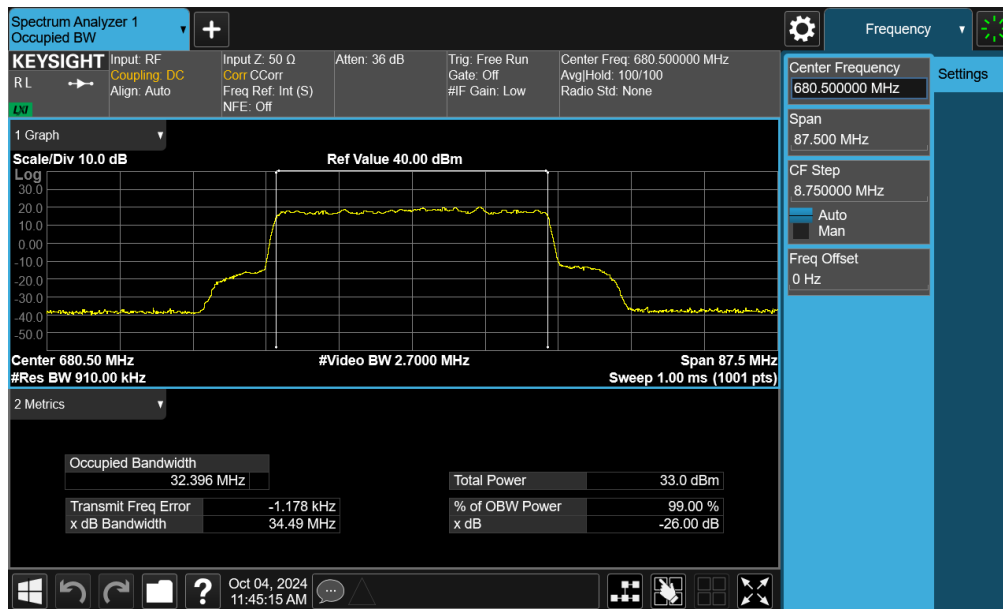
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 94 of 272



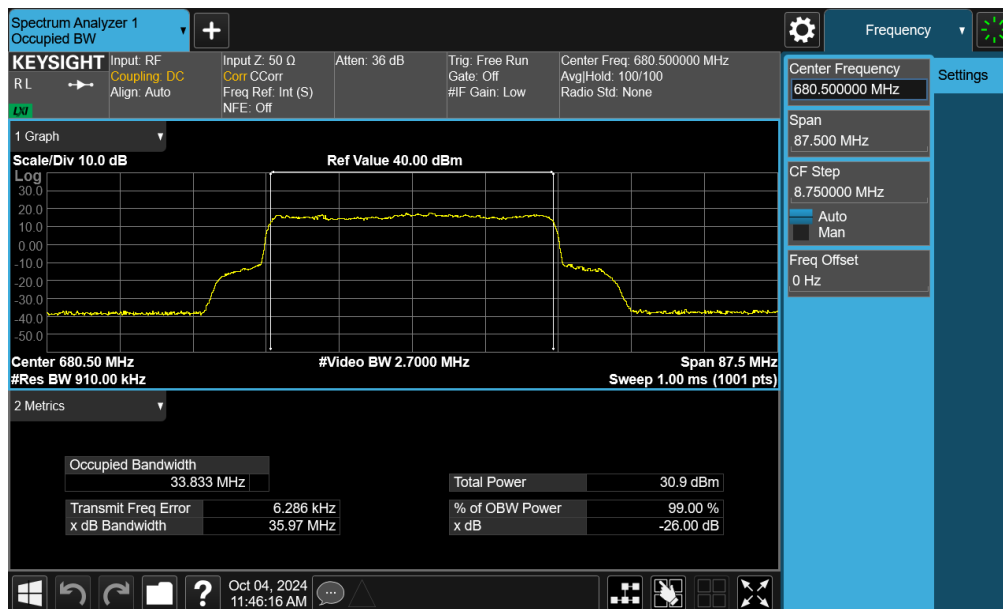
Plot 7-140. Occupied Bandwidth Plot (NR Band n12 - 5MHz CP-OFDM 16-QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n71 – ANT2

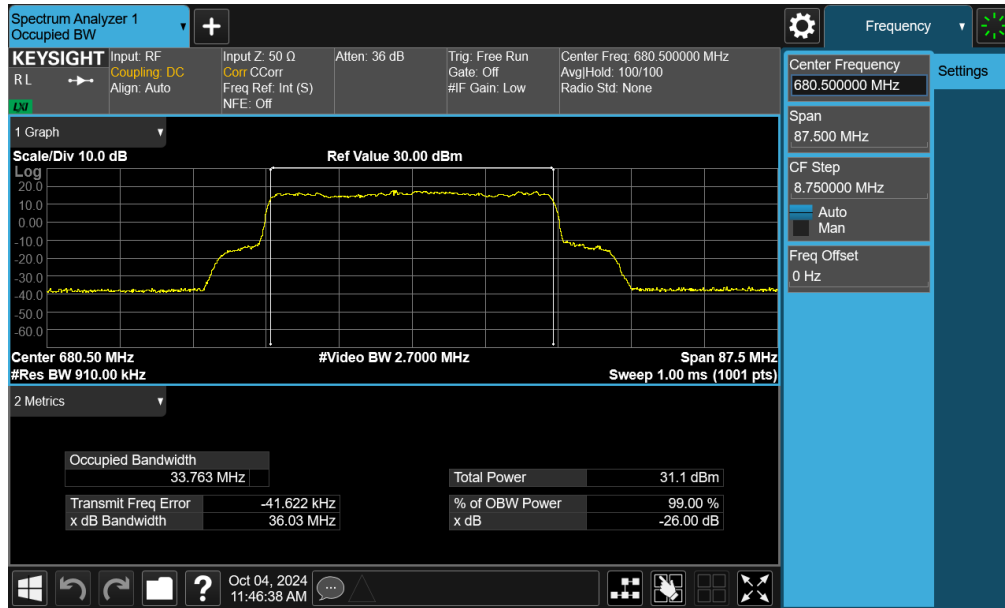


Plot 7-141. Occupied Bandwidth Plot (NR Band n71 - 35MHz DFT-s-OFDM BPSK - Full RB – ANT2)

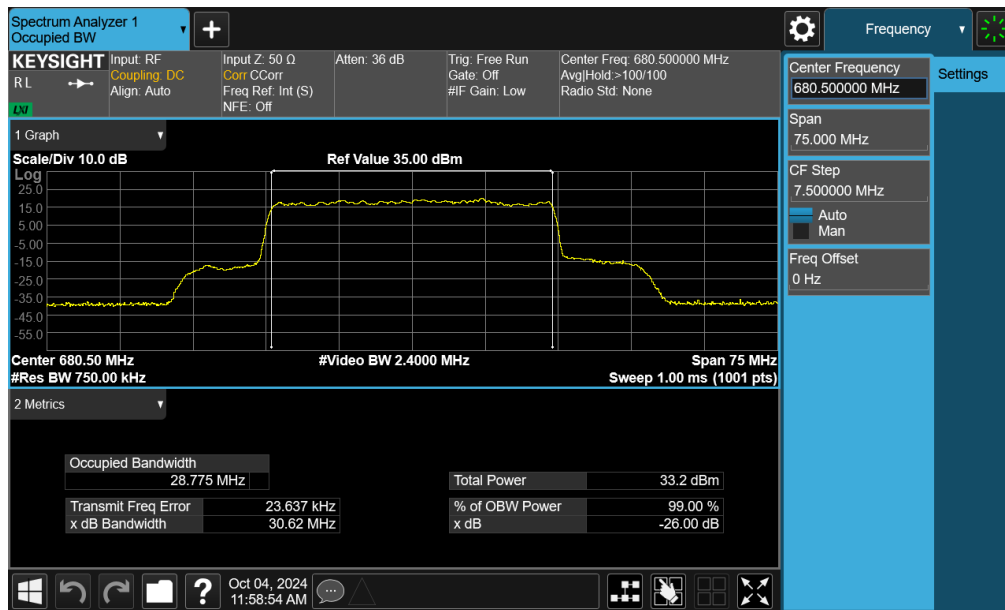


Plot 7-142. Occupied Bandwidth Plot (NR Band n71 - 35MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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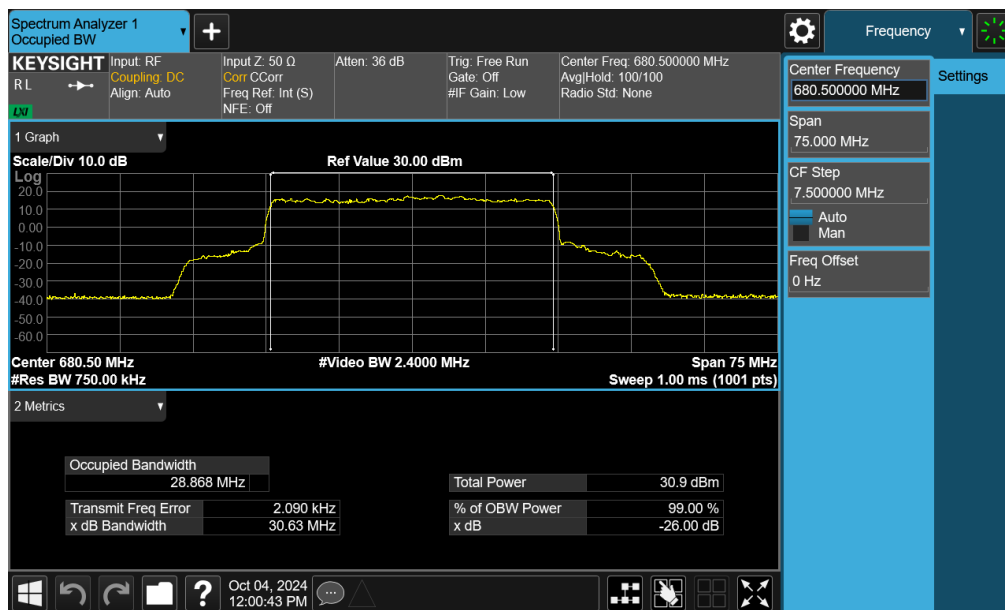


Plot 7-143. Occupied Bandwidth Plot (NR Band n71 - 35MHz CP-OFDM 16-QAM - Full RB – ANT2)

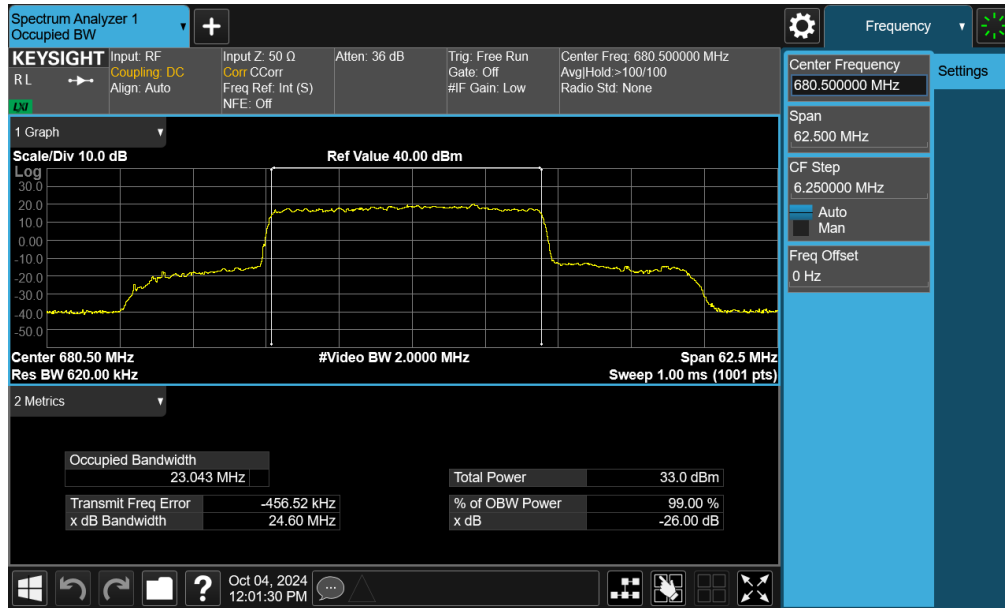


Plot 7-144. Occupied Bandwidth Plot (NR Band n71 - 30MHz DFT-s-OFDM BPSK - Full RB – ANT2)

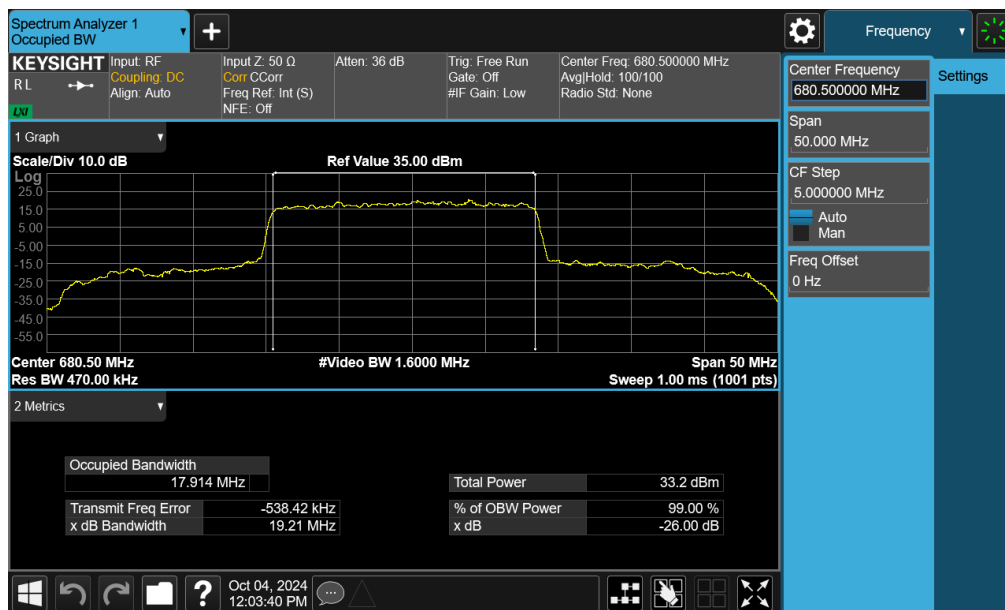
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 97 of 272



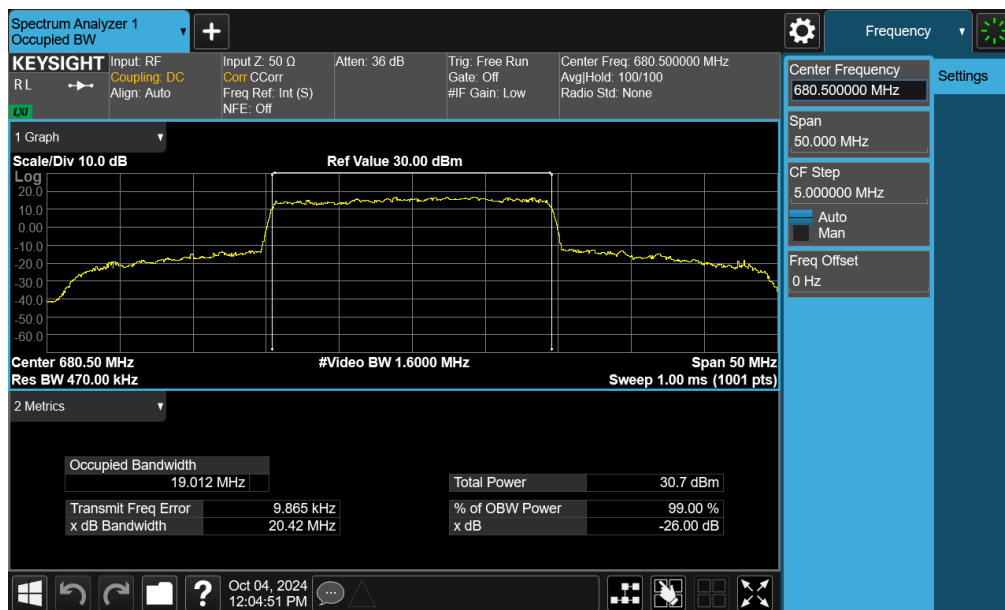
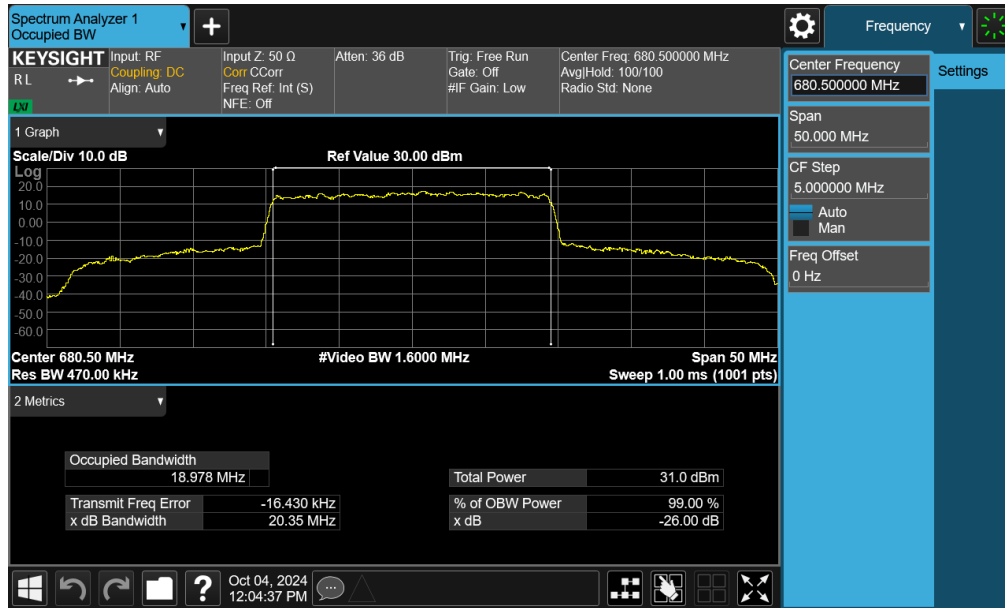
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 98 of 272



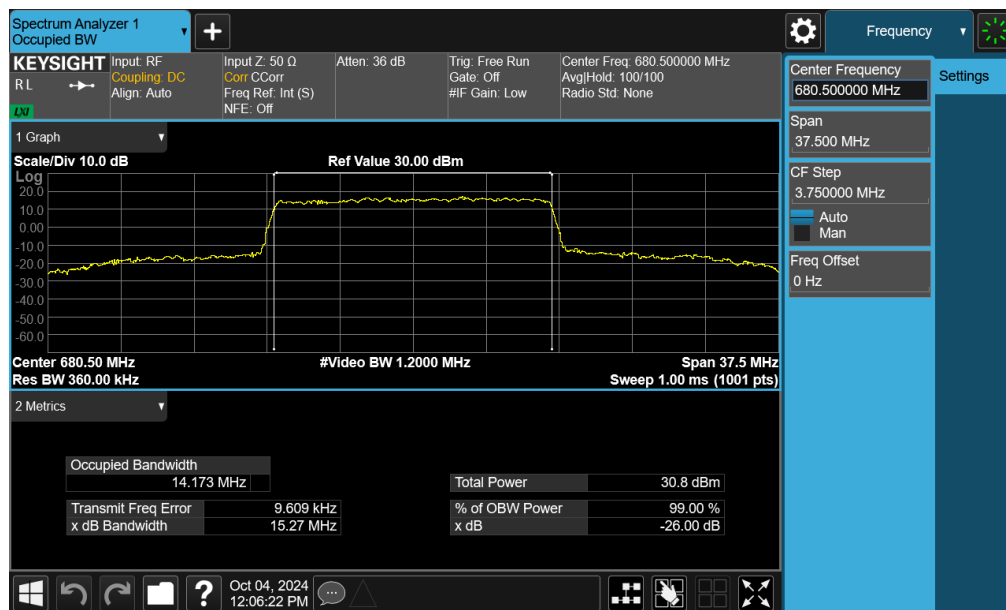
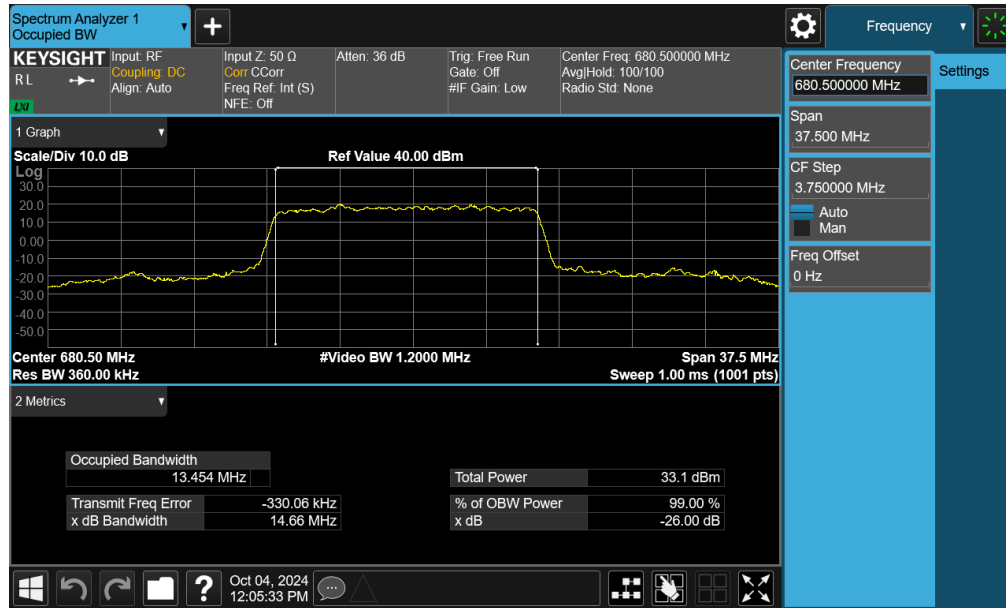
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 99 of 272



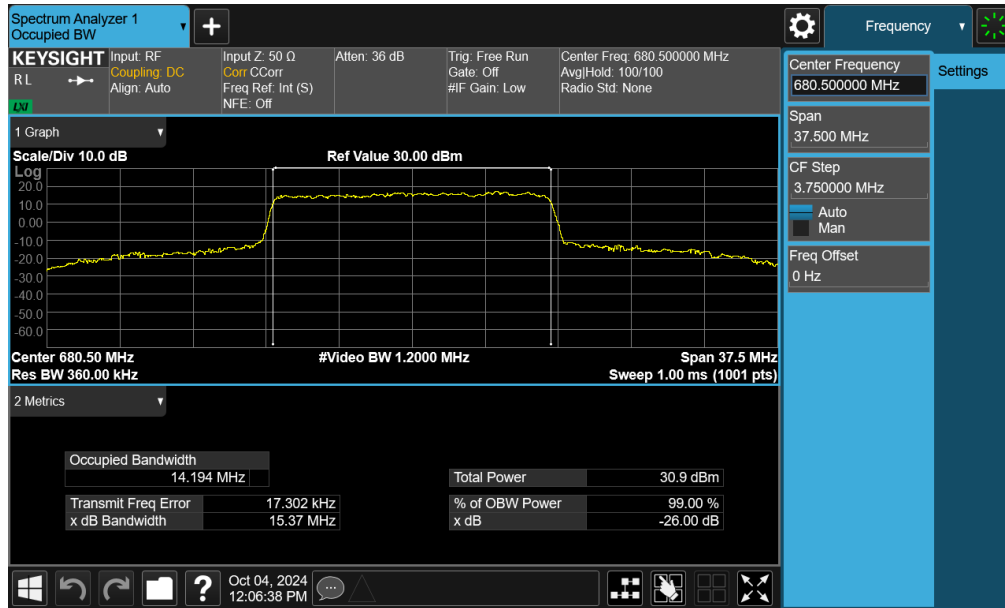
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 100 of 272



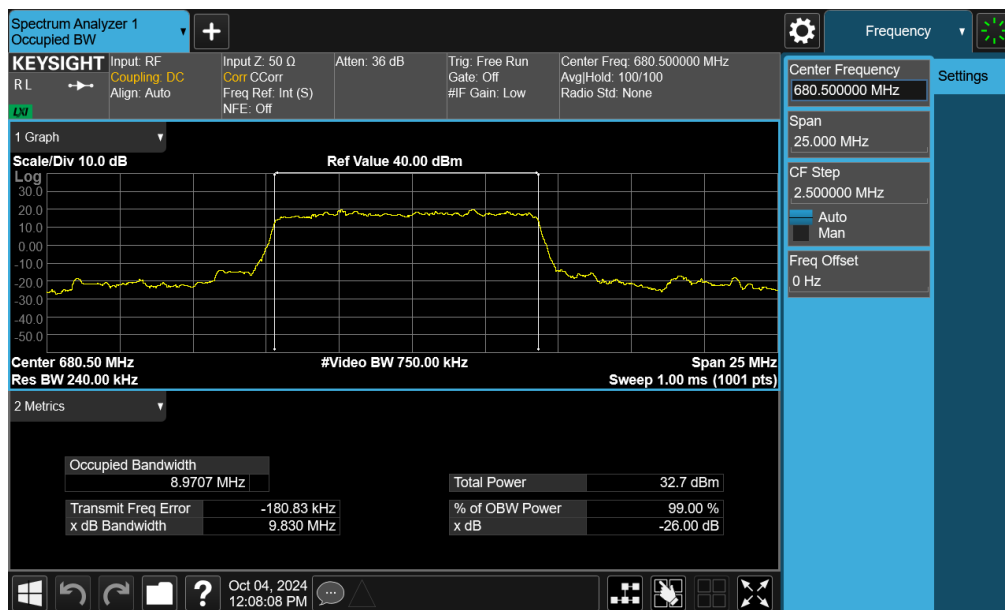
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 101 of 272



FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 102 of 272

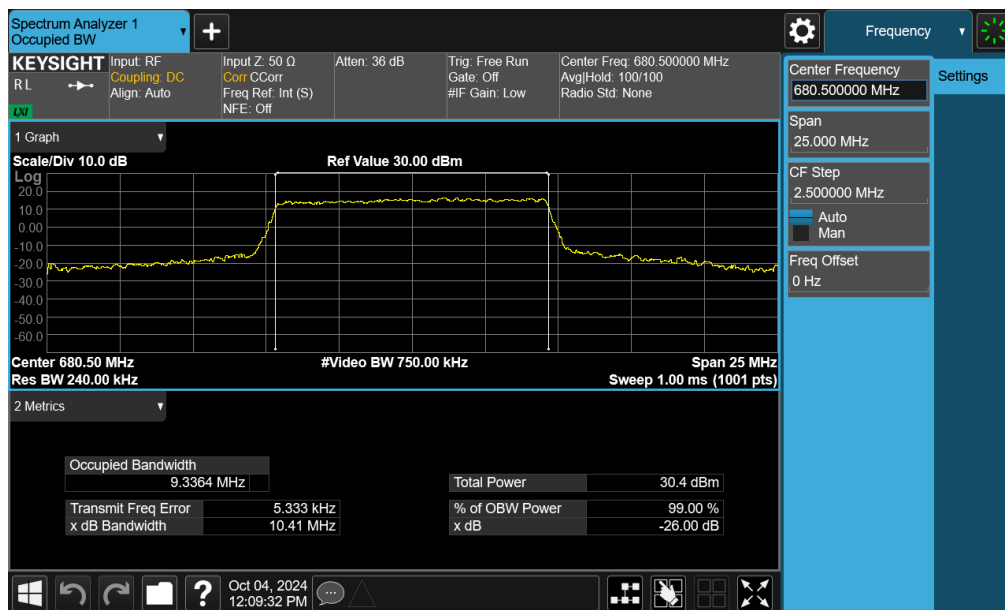
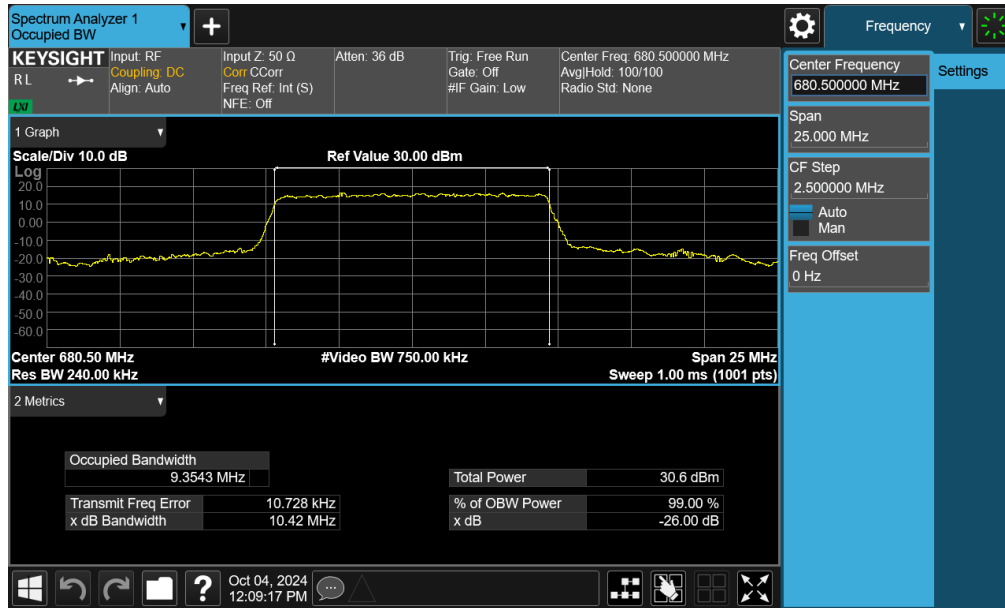


Plot 7-155. Occupied Bandwidth Plot (NR Band n71 - 15MHz CP-OFDM 16-QAM - Full RB – ANT2)

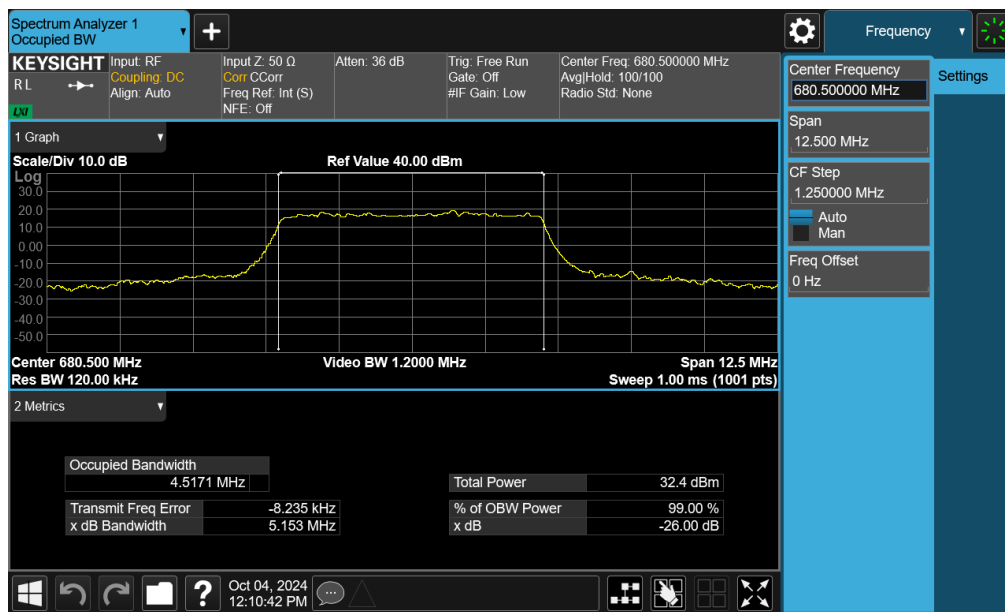
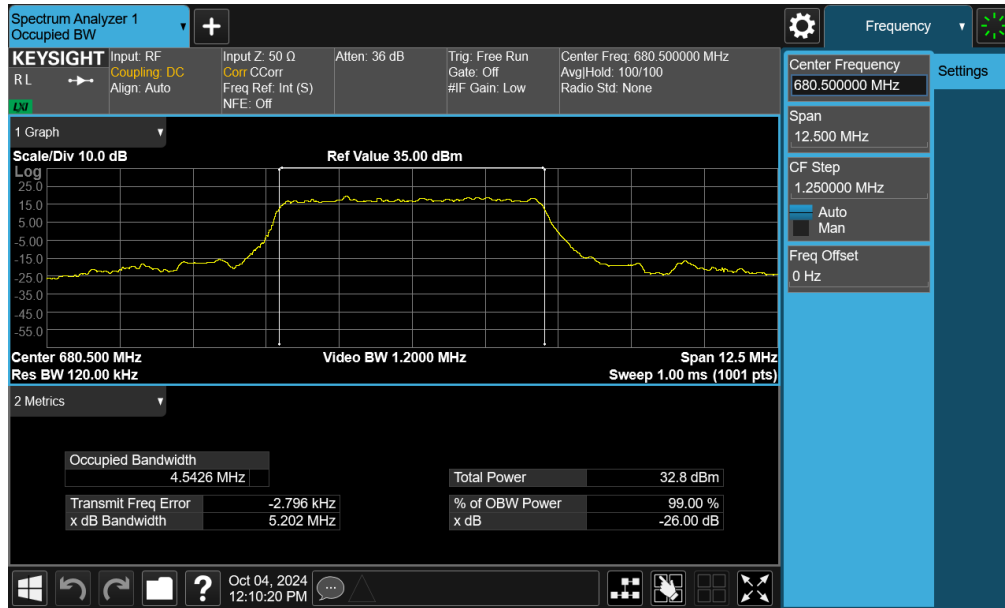


Plot 7-156. Occupied Bandwidth Plot (NR Band n71 - 10MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 104 of 272

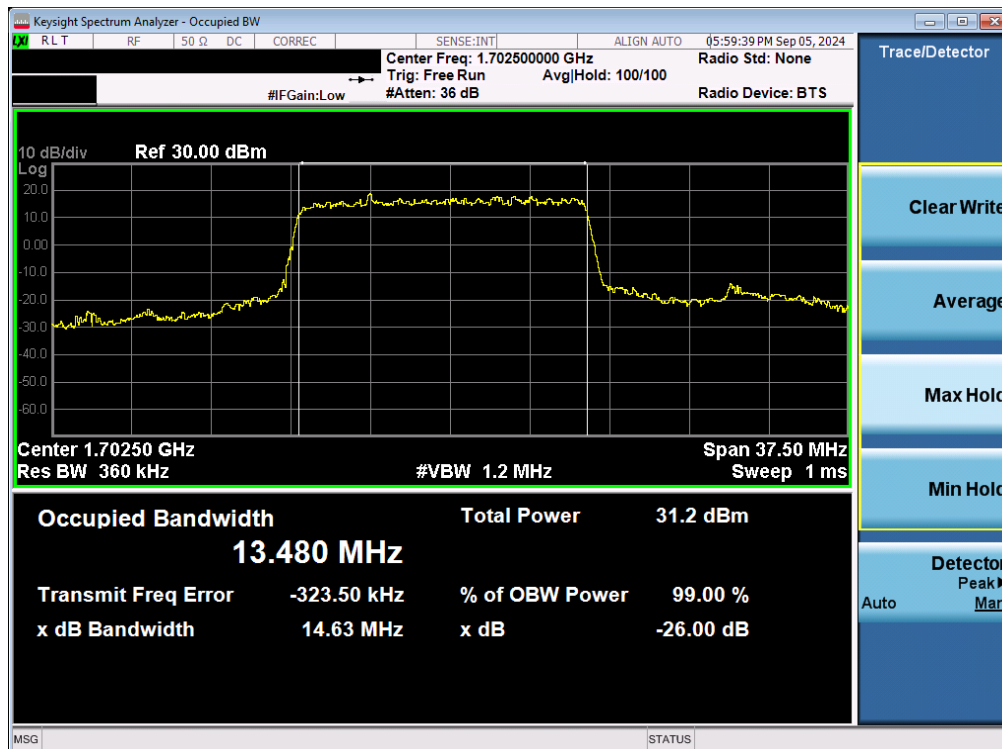


FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 105 of 272

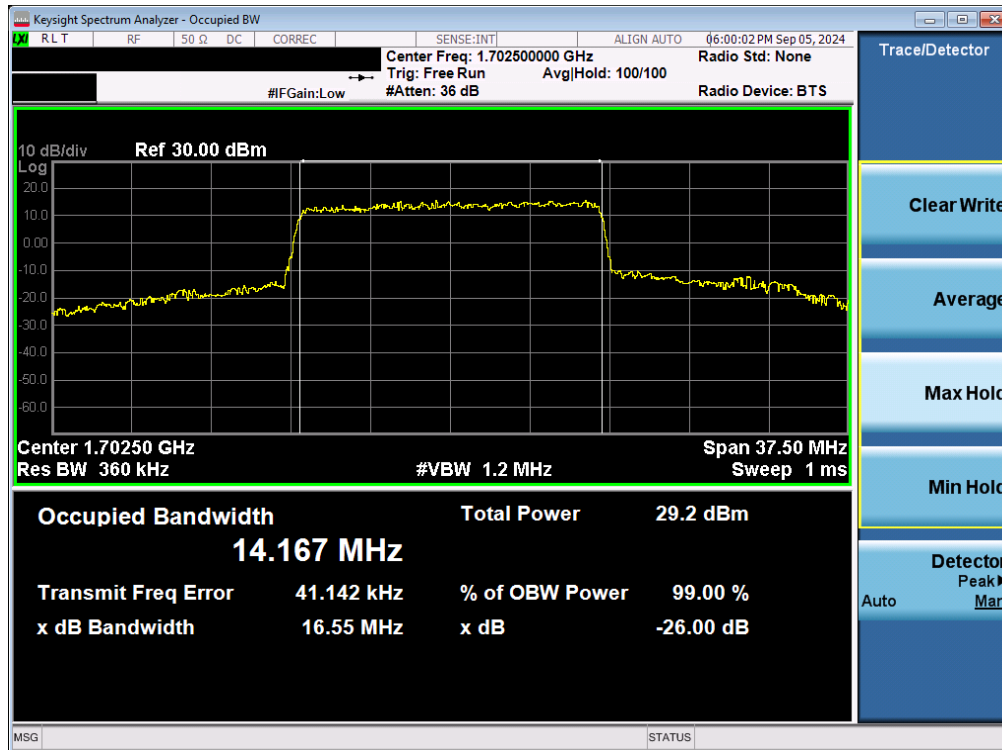
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NR Band n70 – ANT2

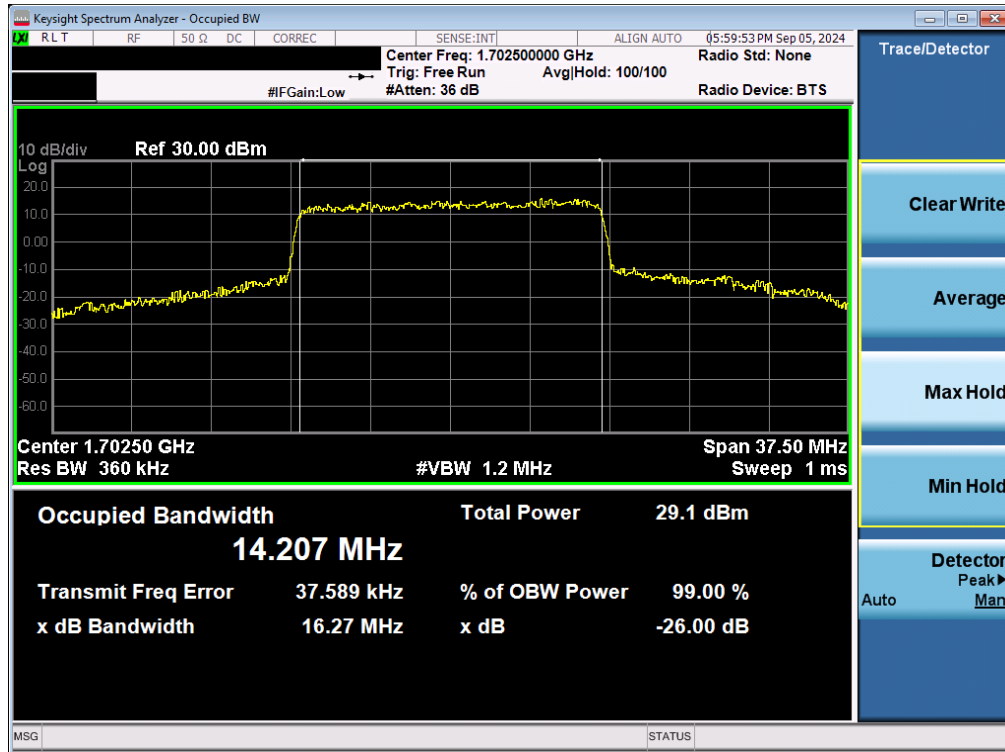


Plot 7-162. Occupied Bandwidth Plot (NR Band n70 - 15.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

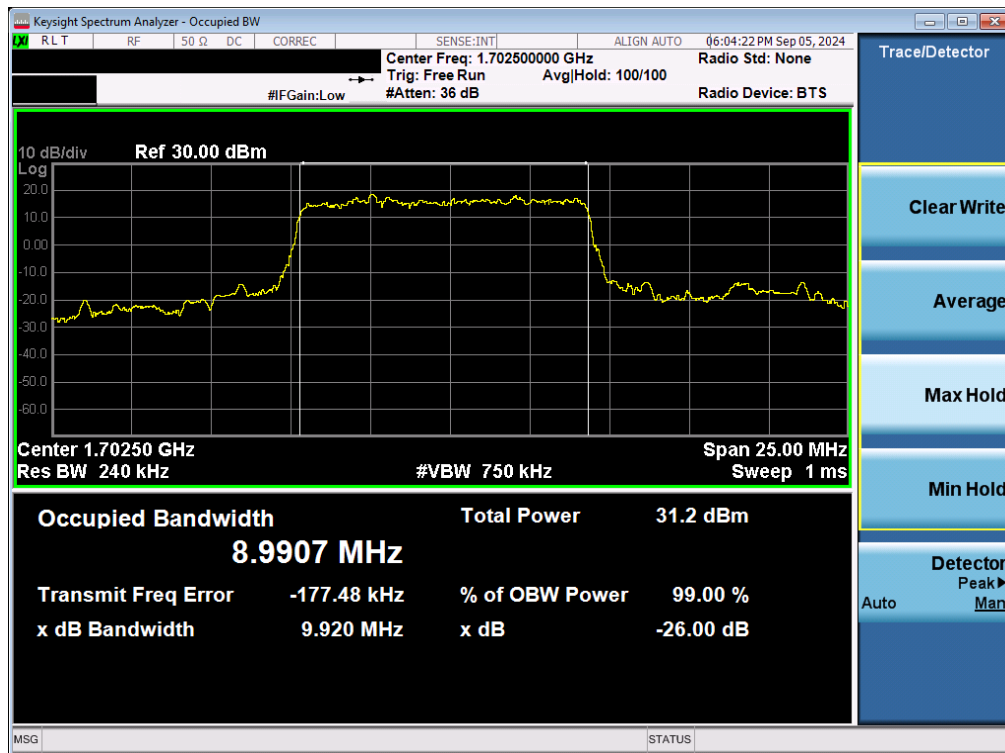


Plot 7-163. Occupied Bandwidth Plot (NR Band n70 - 15.0MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 107 of 272

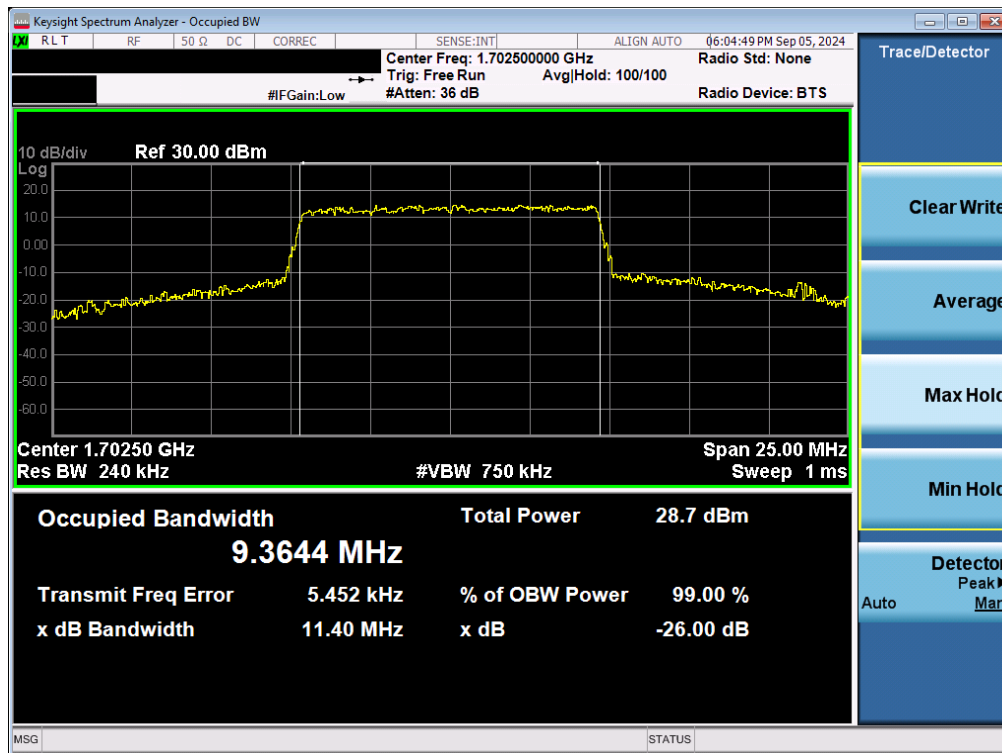


Plot 7-164. Occupied Bandwidth Plot (NR Band n70 - 15.0MHz CP-OFDM 16QAM - Full RB - ANT2)

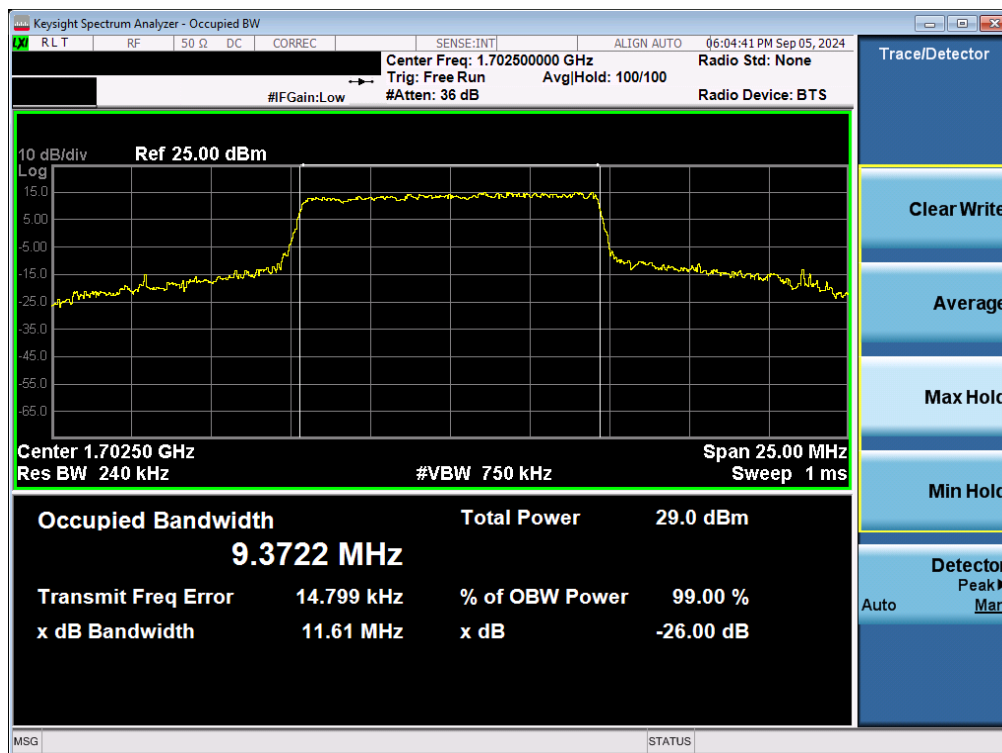


Plot 7-165. Occupied Bandwidth Plot (NR Band n70 - 10.0MHz DFT-s-OFDM BPSK - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 108 of 272

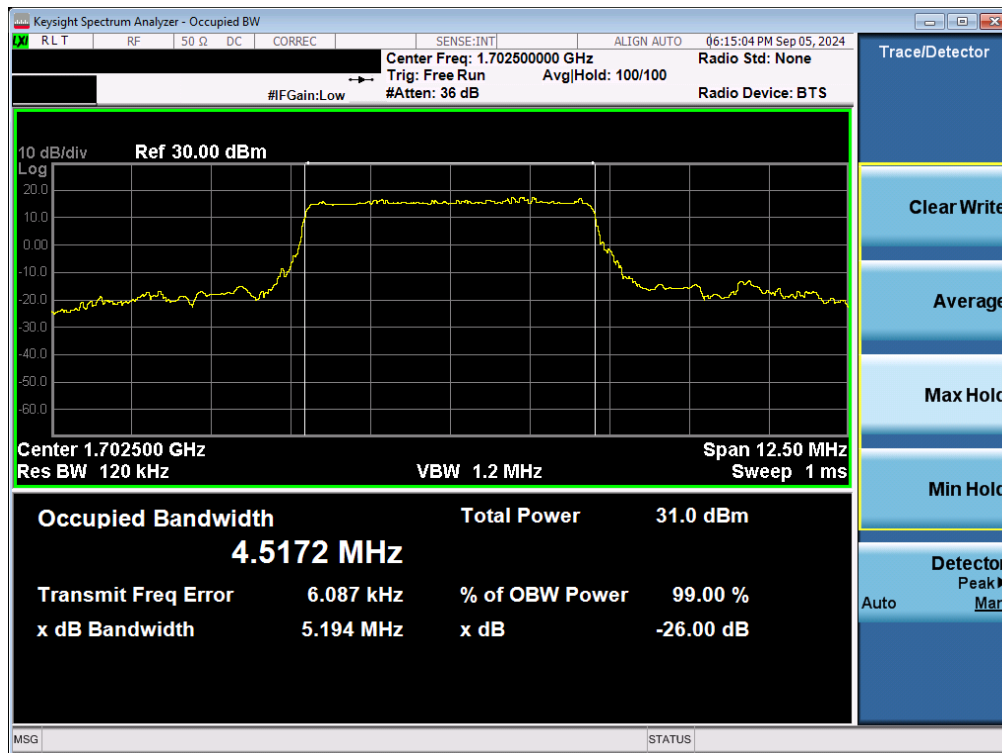


Plot 7-166. Occupied Bandwidth Plot (NR Band n70 - 10.0MHz CP-OFDM QPSK - Full RB - ANT2)

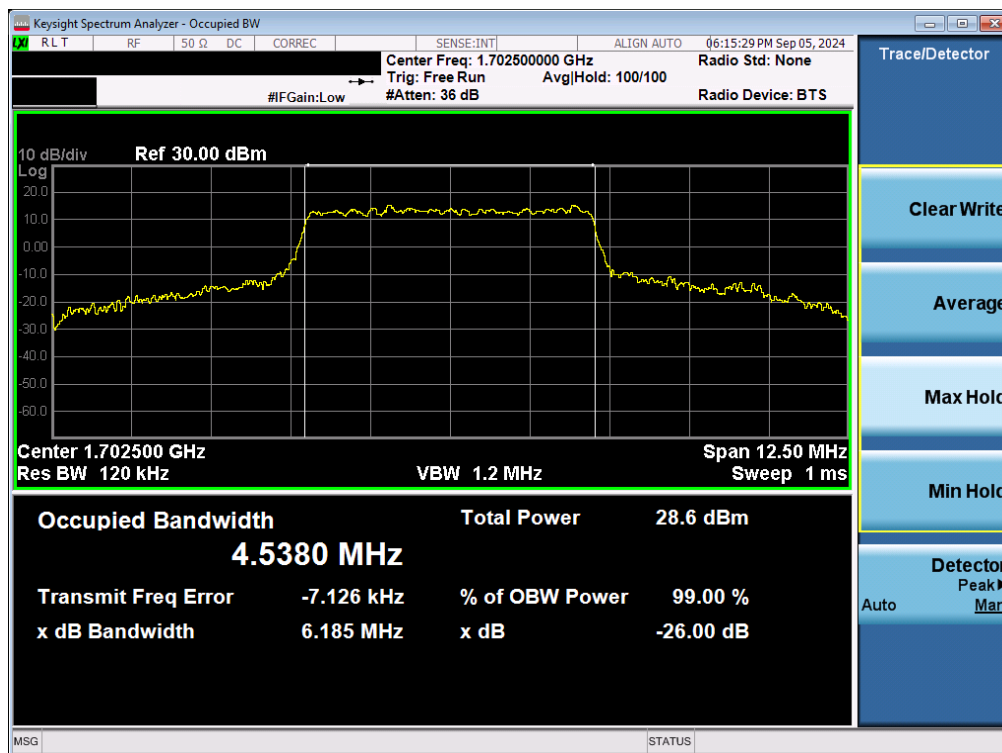


Plot 7-167. Occupied Bandwidth Plot (NR Band n70 - 10.0MHz CP-OFDM 16QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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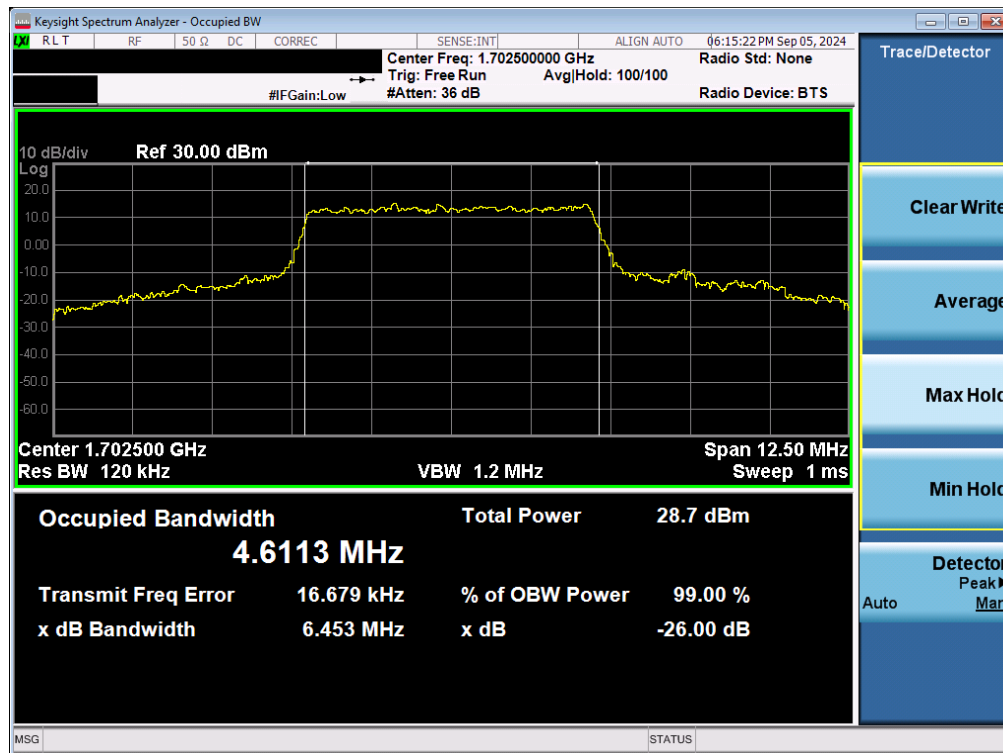


Plot 7-168. Occupied Bandwidth Plot (NR Band n70 - 5.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)



Plot 7-169. Occupied Bandwidth Plot (NR Band n70 - 5.0MHz CP-OFDM QPSK - Full RB – ANT2)

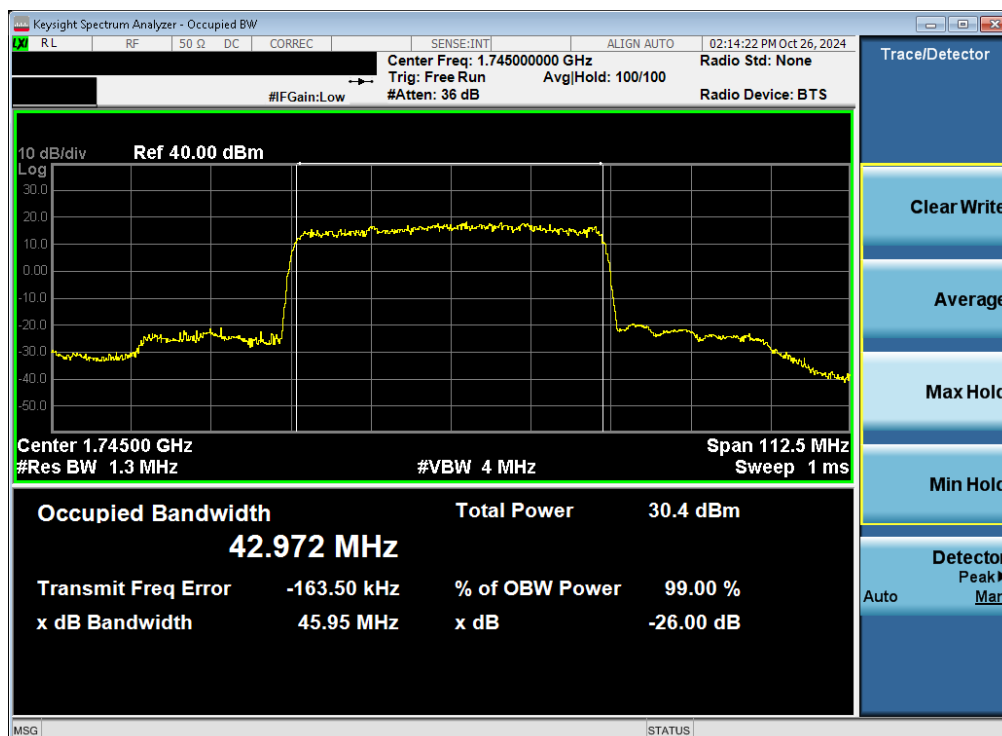
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 110 of 272



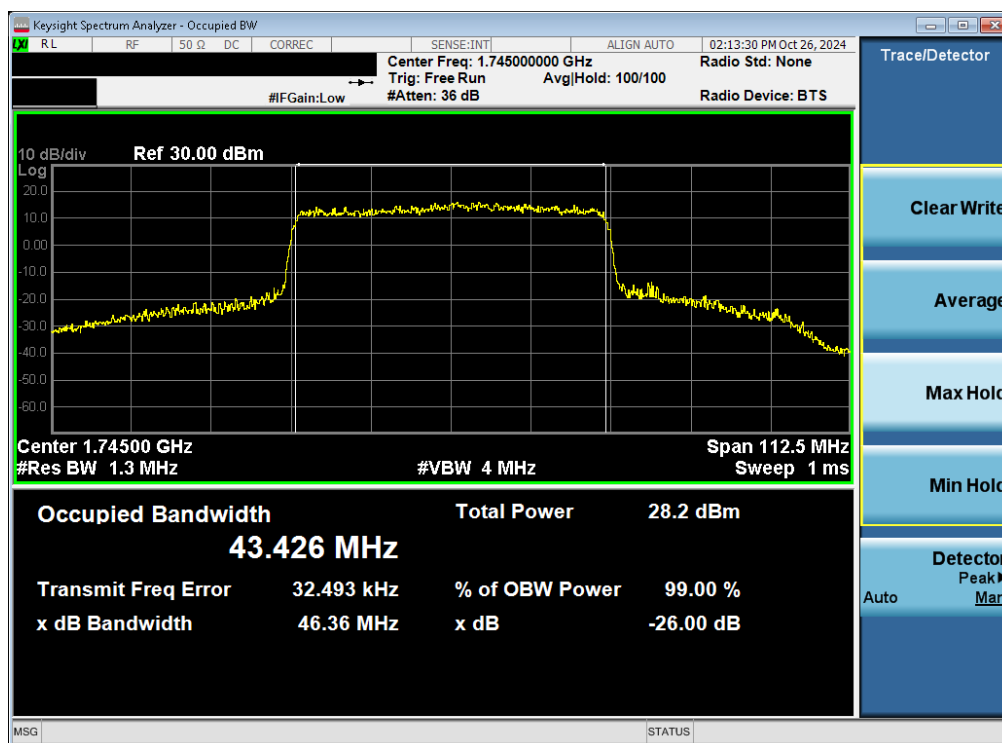
Plot 7-170. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 111 of 272

NR Band n66 – ANT2

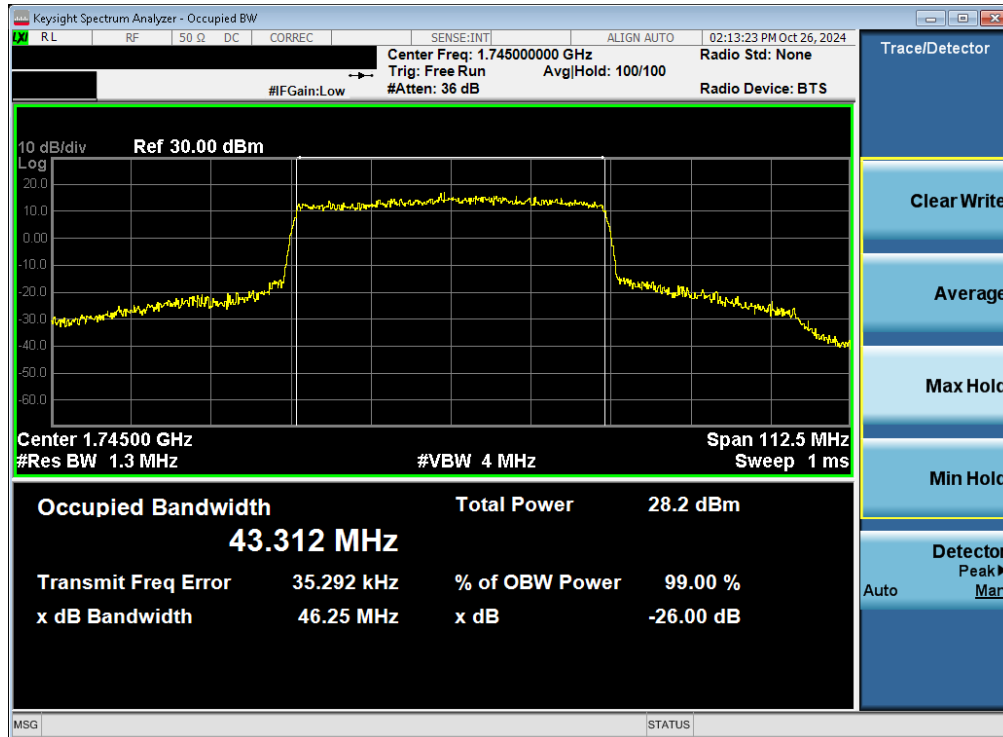


Plot 7-171. Occupied Bandwidth Plot (NR Band n66 - 45.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

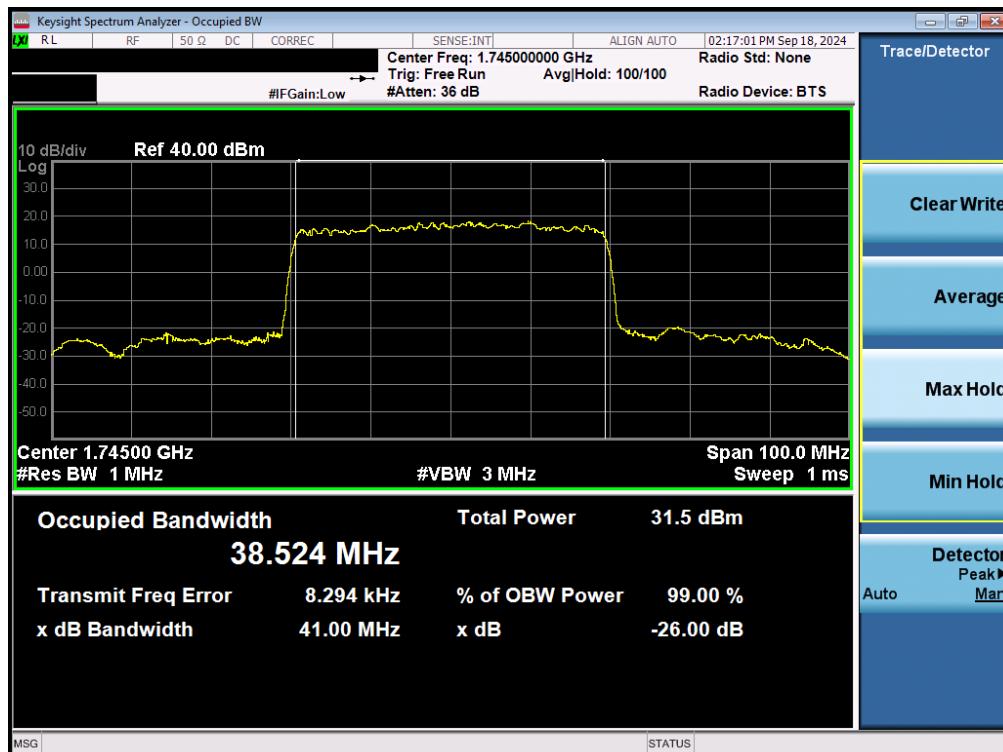


Plot 7-172. Occupied Bandwidth Plot (NR Band n66 - 45.0MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 112 of 272

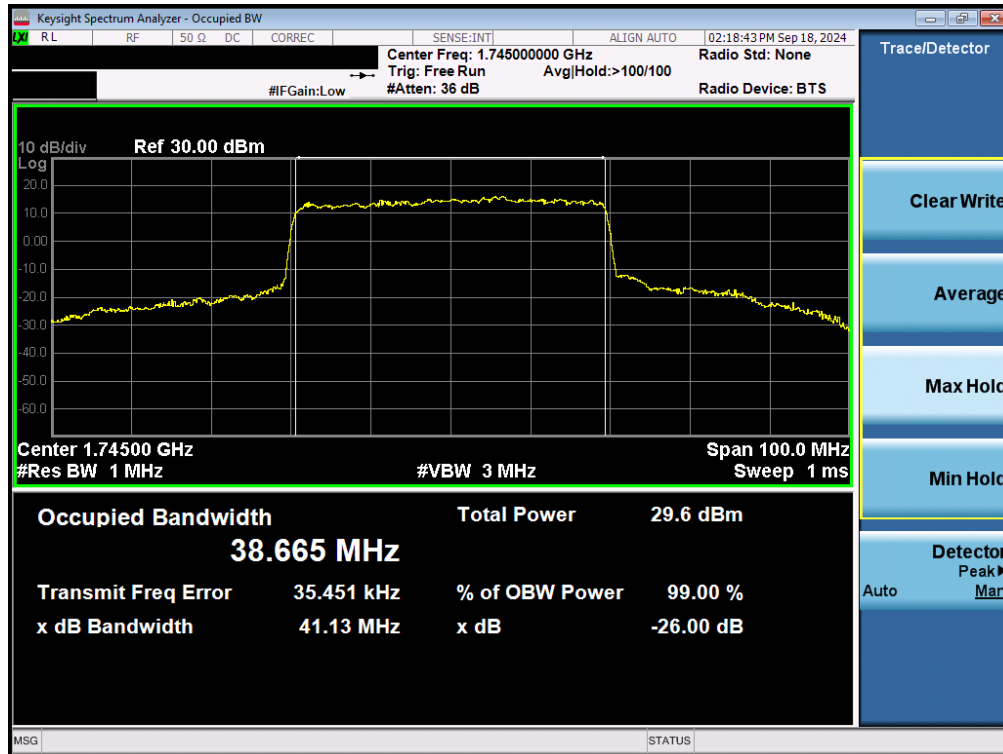


Plot 7-173. Occupied Bandwidth Plot (NR Band n66 - 45.0MHz CP-OFDM 16QAM - Full RB – ANT2)

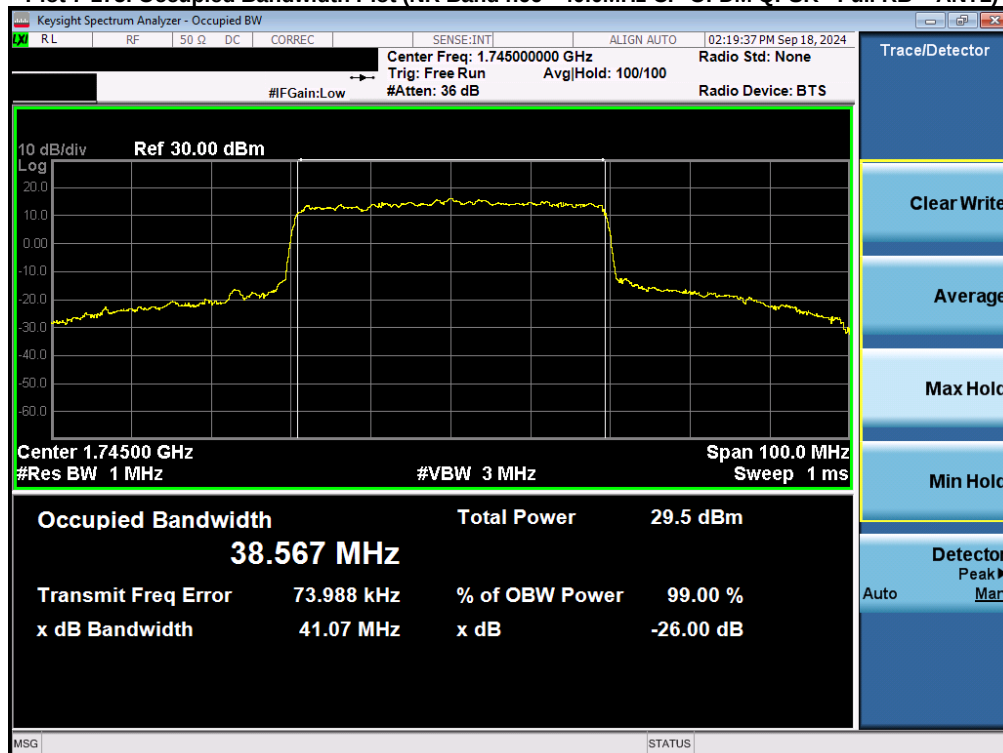


Plot 7-174. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 113 of 272

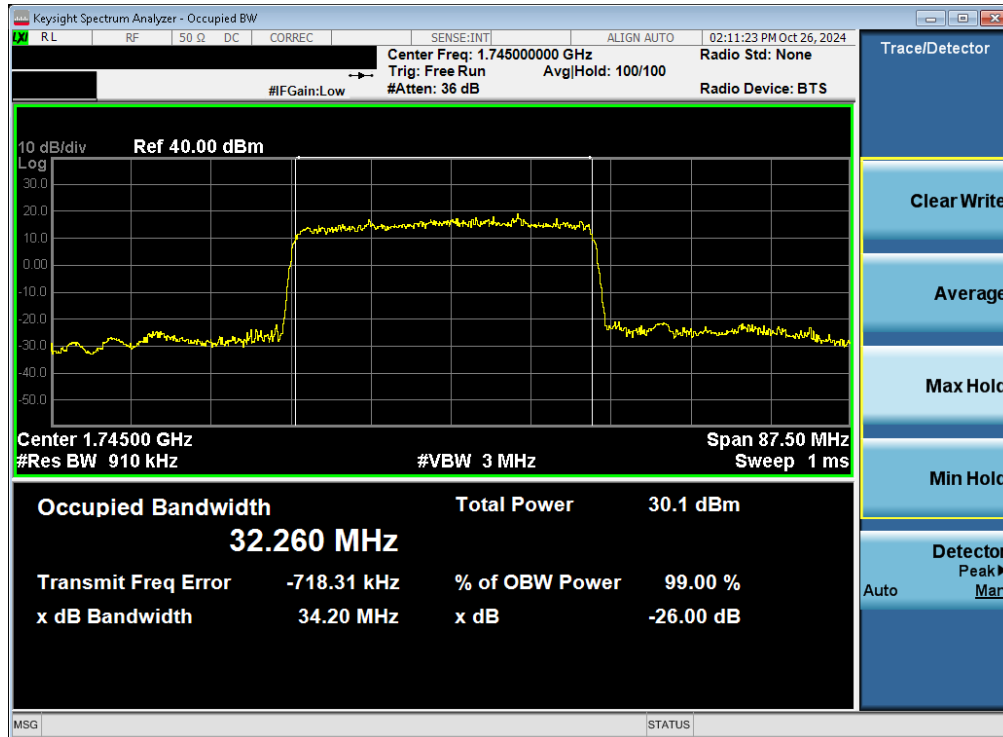


Plot 7-175. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB - ANT2)

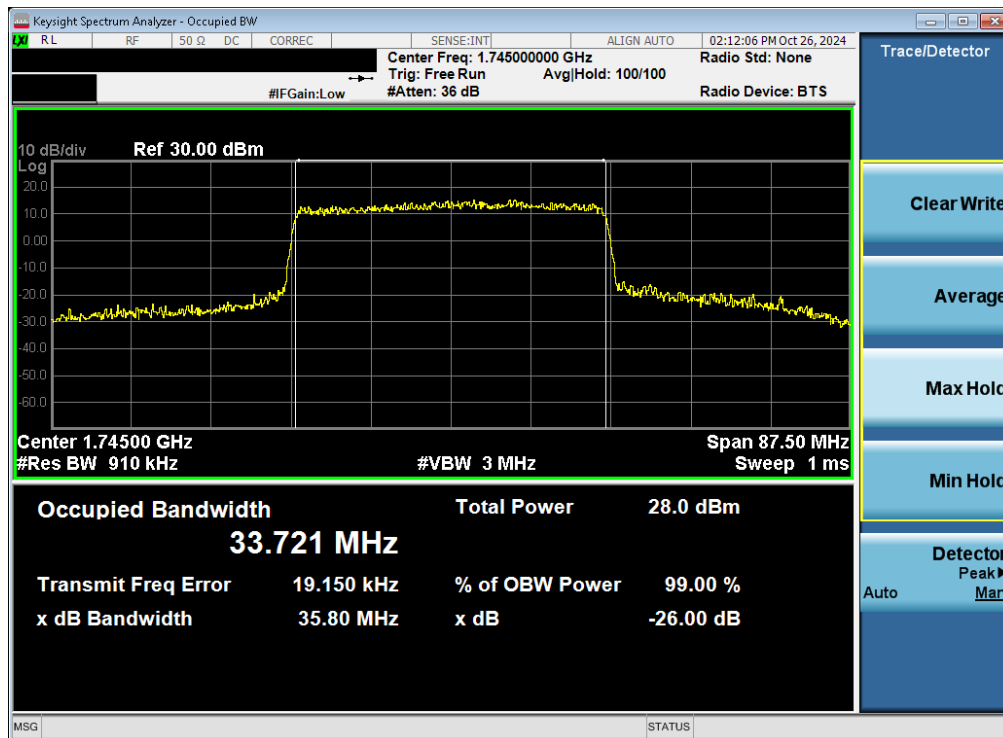


Plot 7-176. Occupied Bandwidth Plot (NR Band n66 - 40.0MHz CP-OFDM 16QAM - Full RB - ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 114 of 272



Plot 7-177. Occupied Bandwidth Plot (NR Band n66 - 35.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

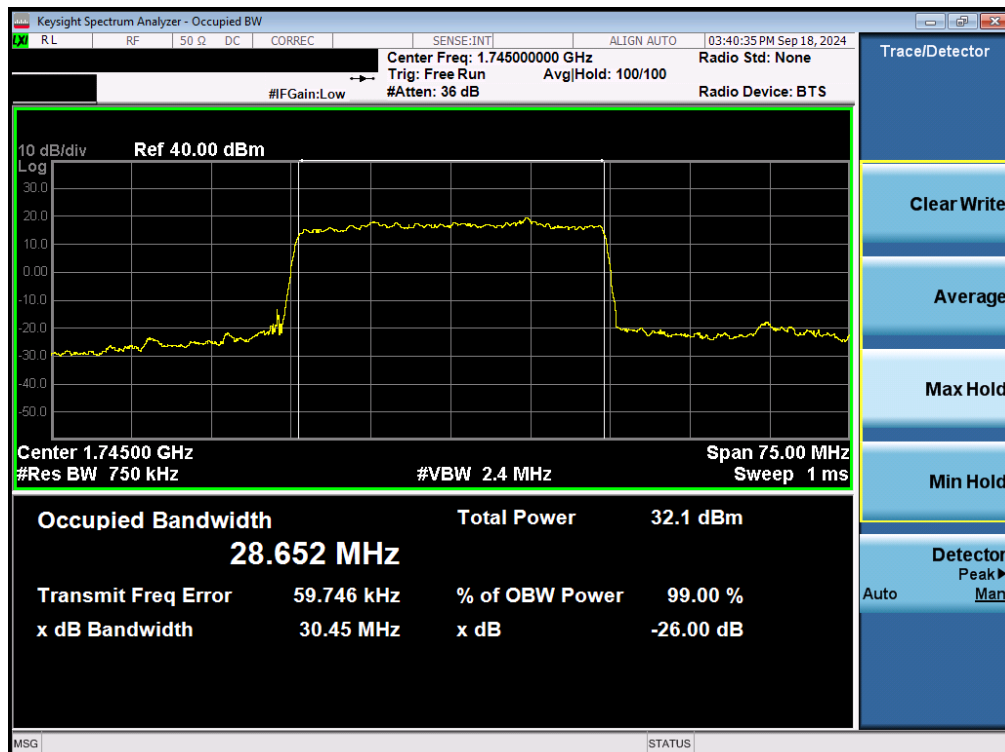


Plot 7-178. Occupied Bandwidth Plot (NR Band n66 - 35.0MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 115 of 272

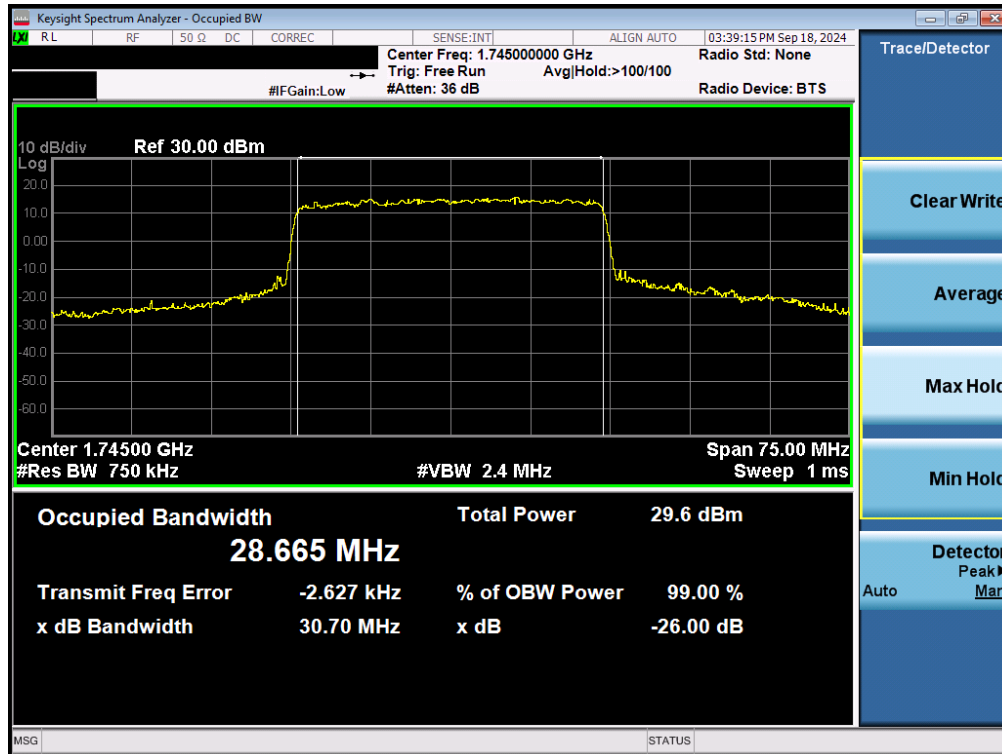


Plot 7-179. Occupied Bandwidth Plot (NR Band n66 - 35.0MHz CP-OFDM 16QAM - Full RB – ANT2)

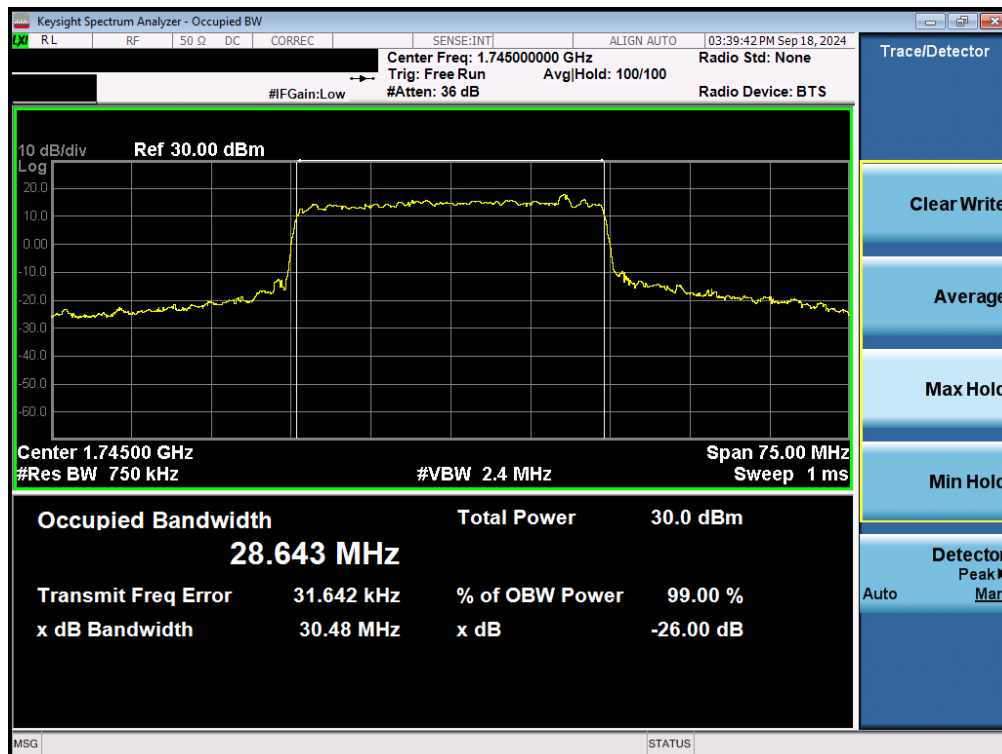


Plot 7-180. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-181. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM QPSK - Full RB – ANT2)

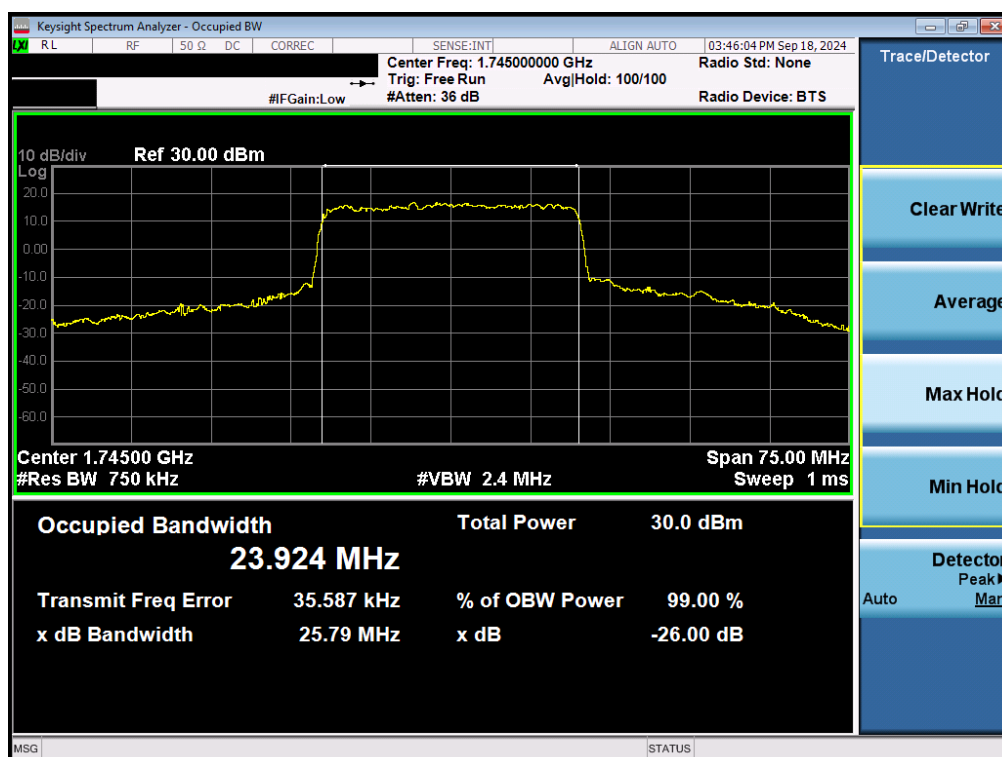


Plot 7-182. Occupied Bandwidth Plot (NR Band n66 - 30.0MHz CP-OFDM 16QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 117 of 272



Plot 7-183. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

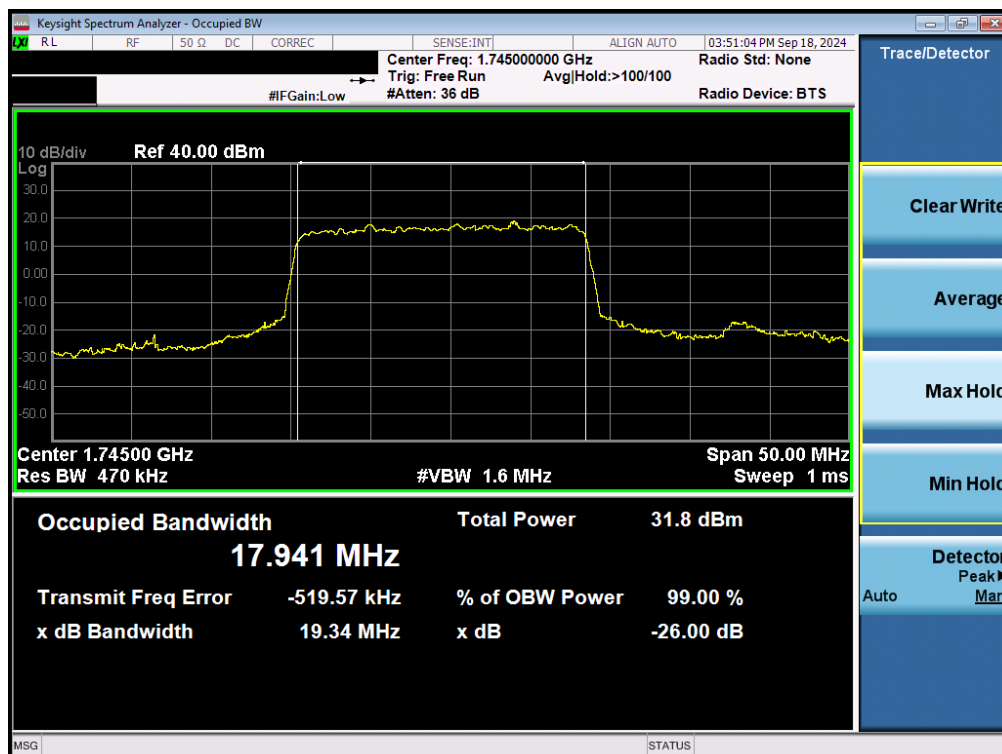


Plot 7-184. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 118 of 272

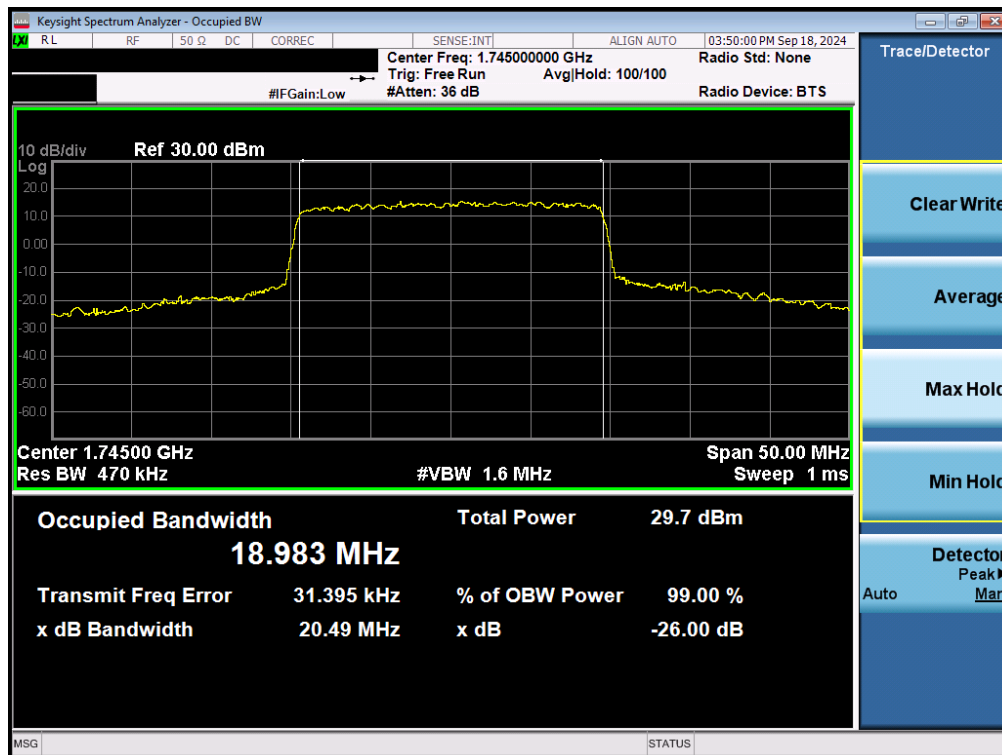


Plot 7-185. Occupied Bandwidth Plot (NR Band n66 - 25.0MHz CP-OFDM 16QAM - Full RB – ANT2)

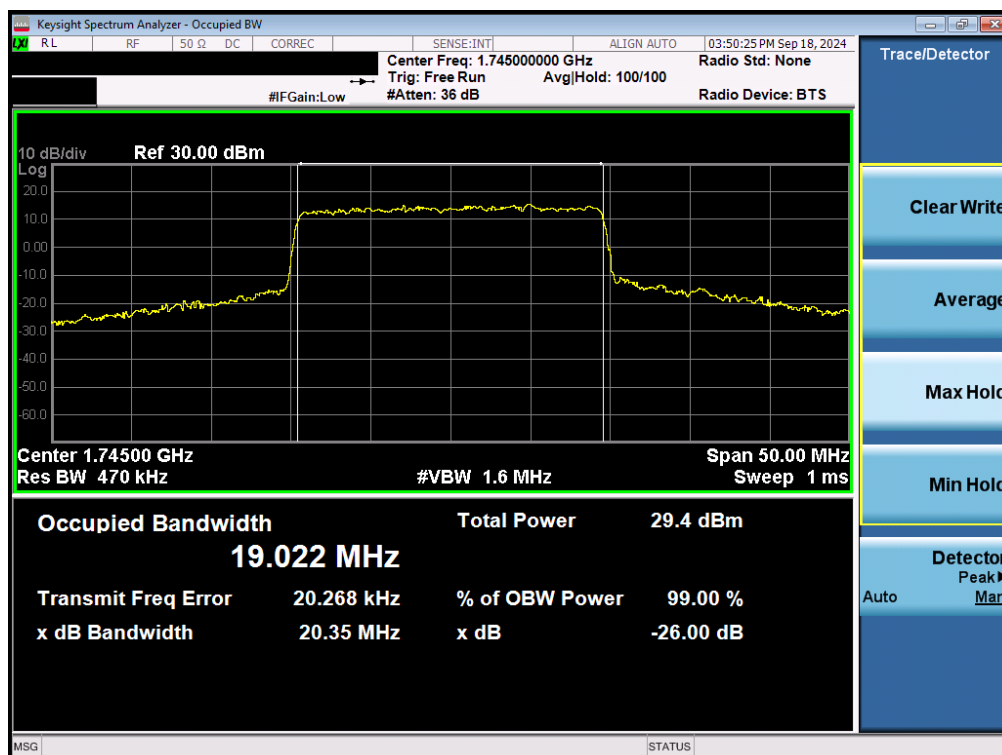


Plot 7-186. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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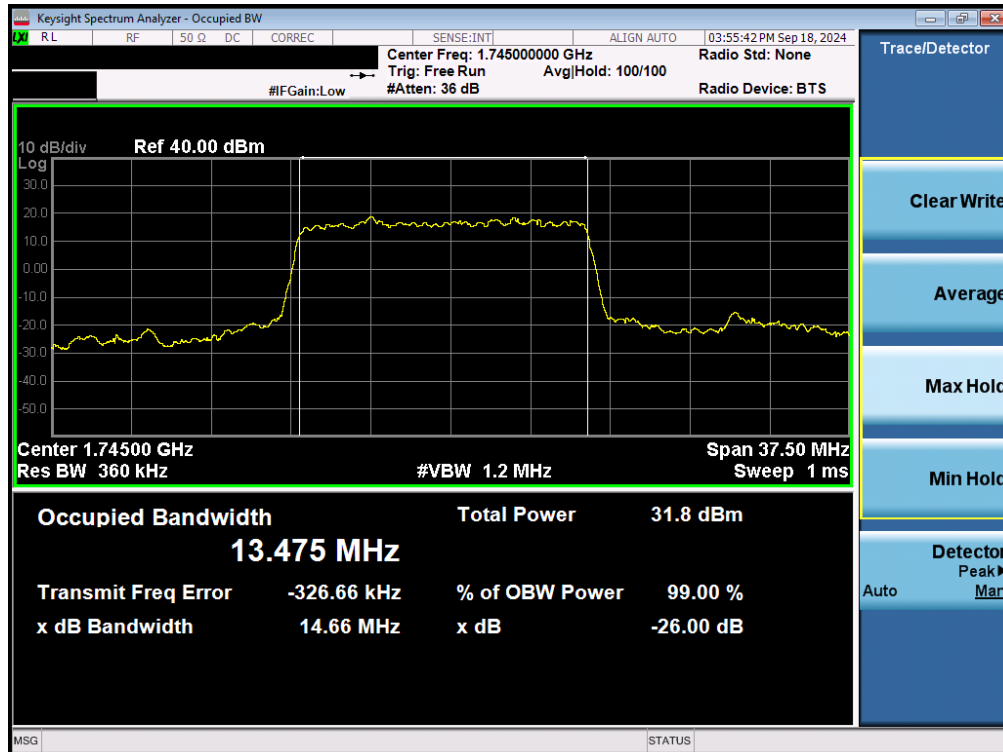


Plot 7-187. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB – ANT2)

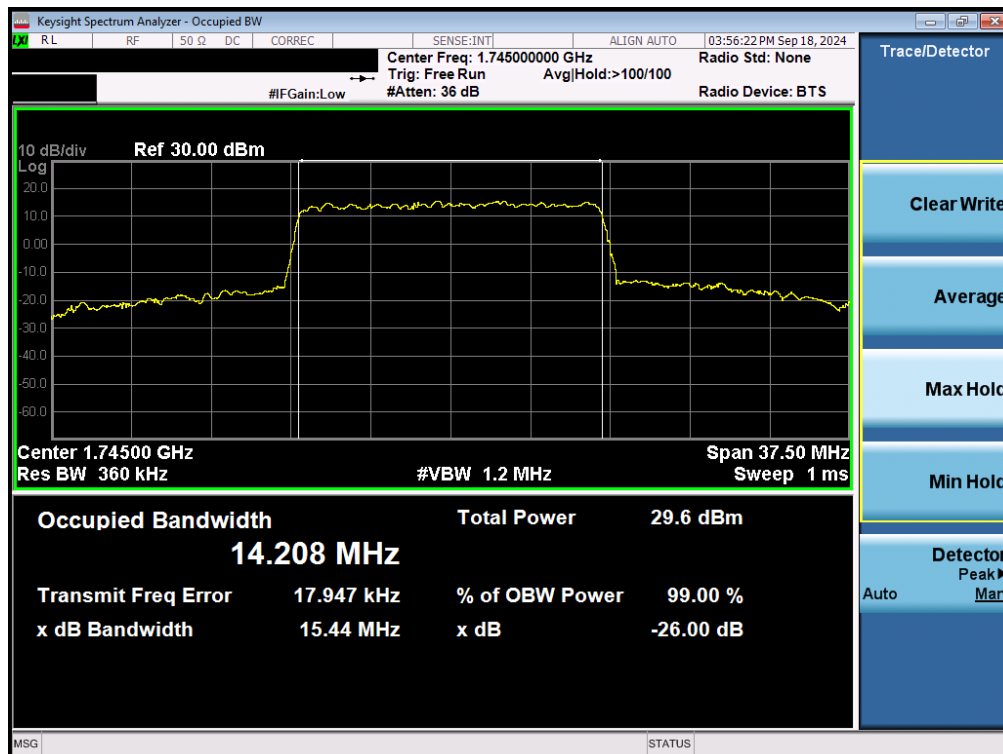


Plot 7-188. Occupied Bandwidth Plot (NR Band n66 - 20.0MHz CP-OFDM 16QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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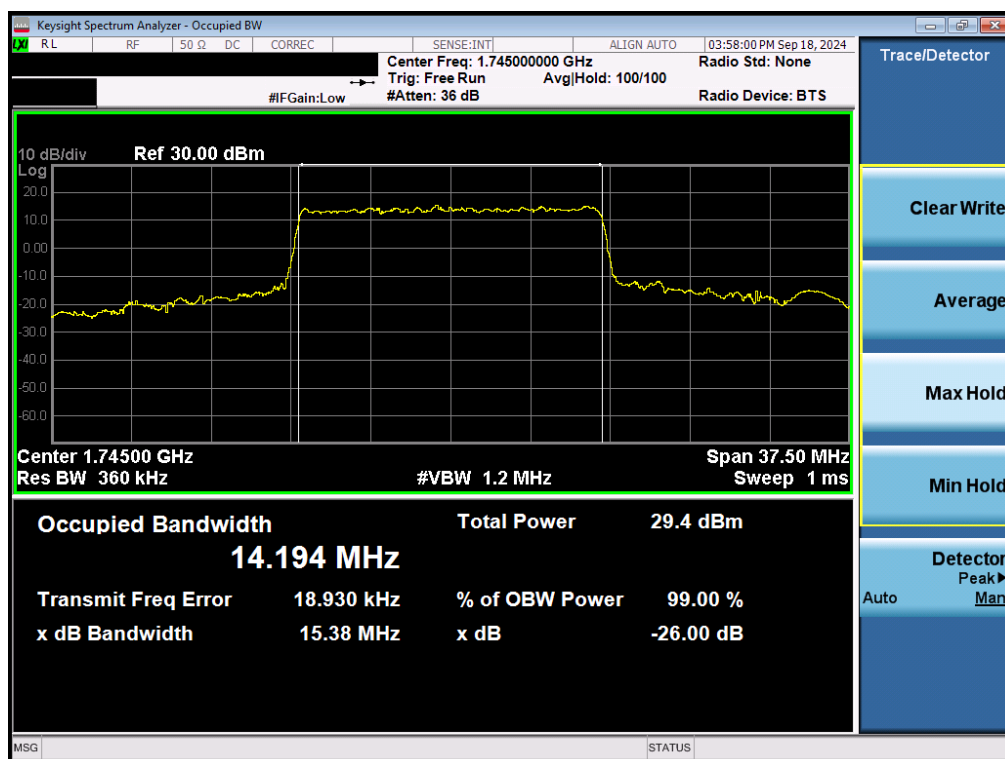


Plot 7-189. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

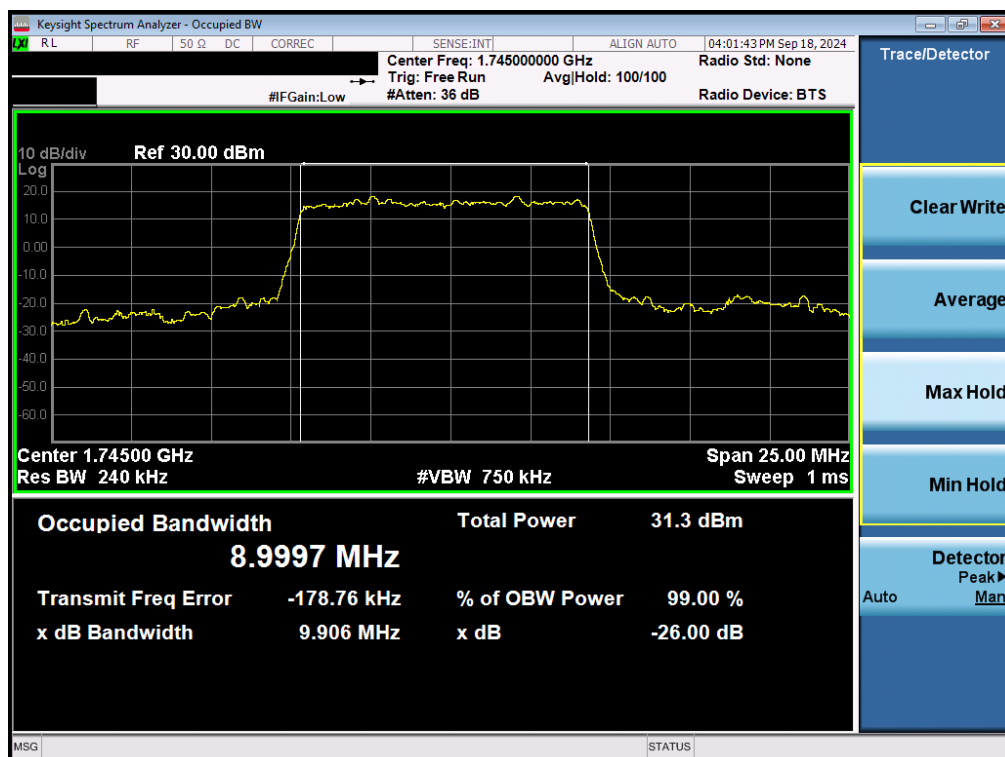


Plot 7-190. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 121 of 272

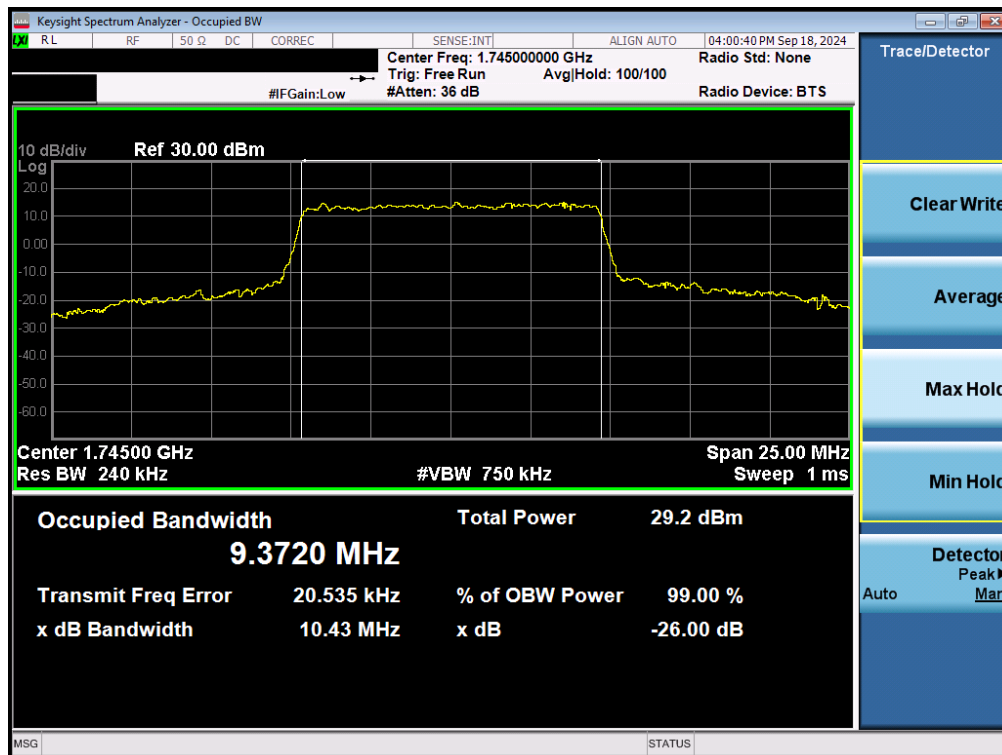


Plot 7-191. Occupied Bandwidth Plot (NR Band n66 - 15.0MHz CP-OFDM 16QAM - Full RB – ANT2)

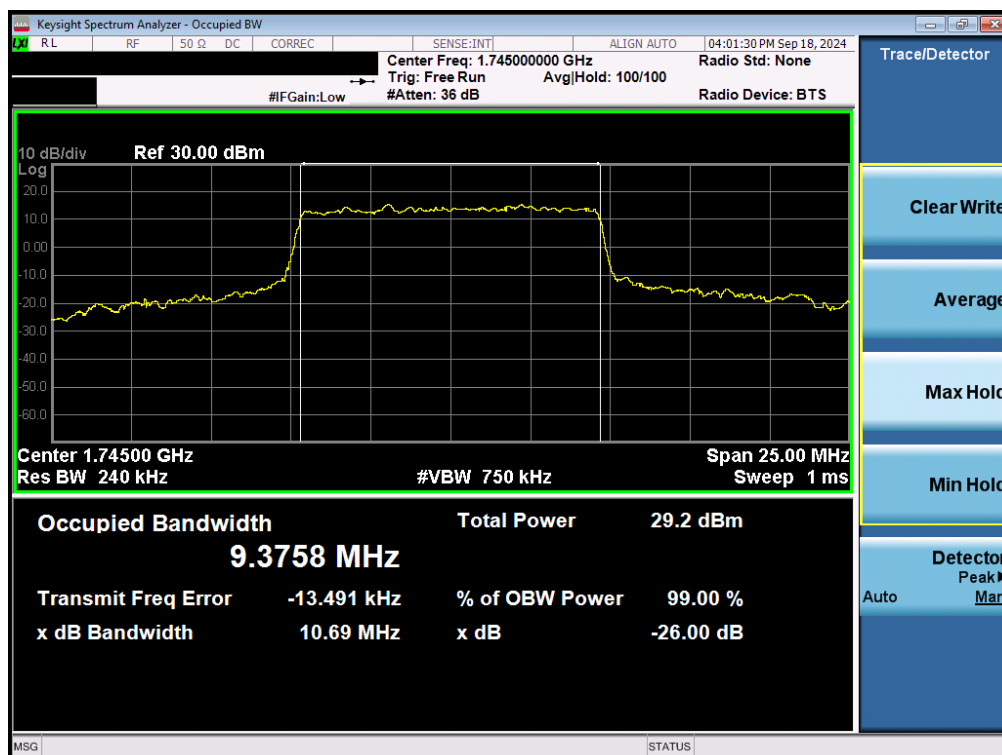


Plot 7-192. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 122 of 272

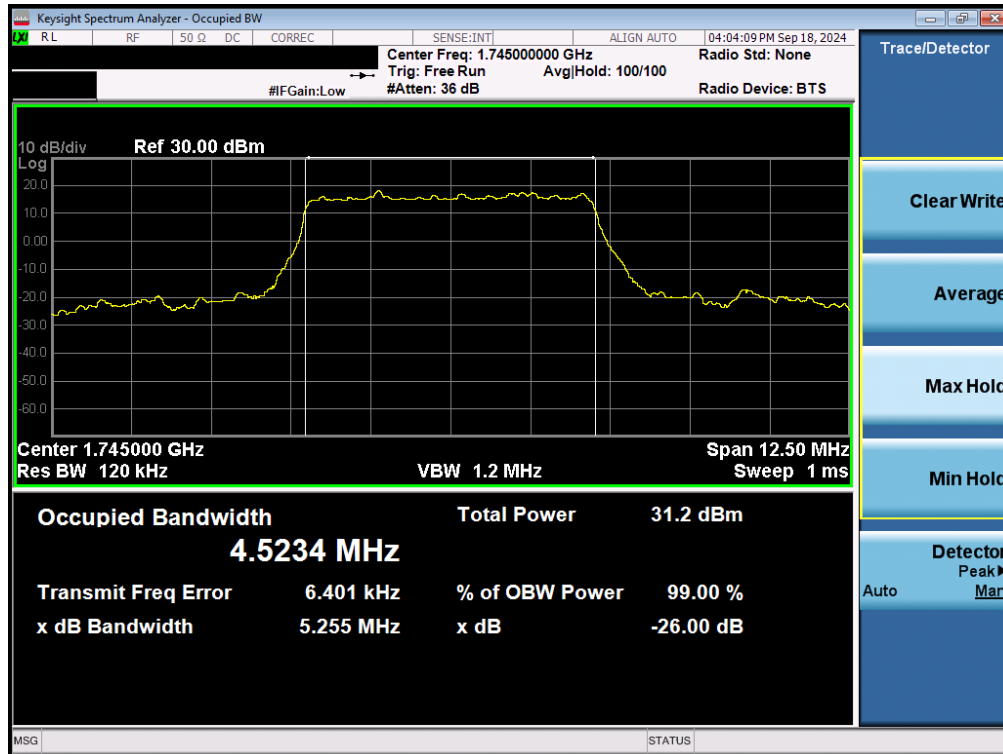


Plot 7-193. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB – ANT2)

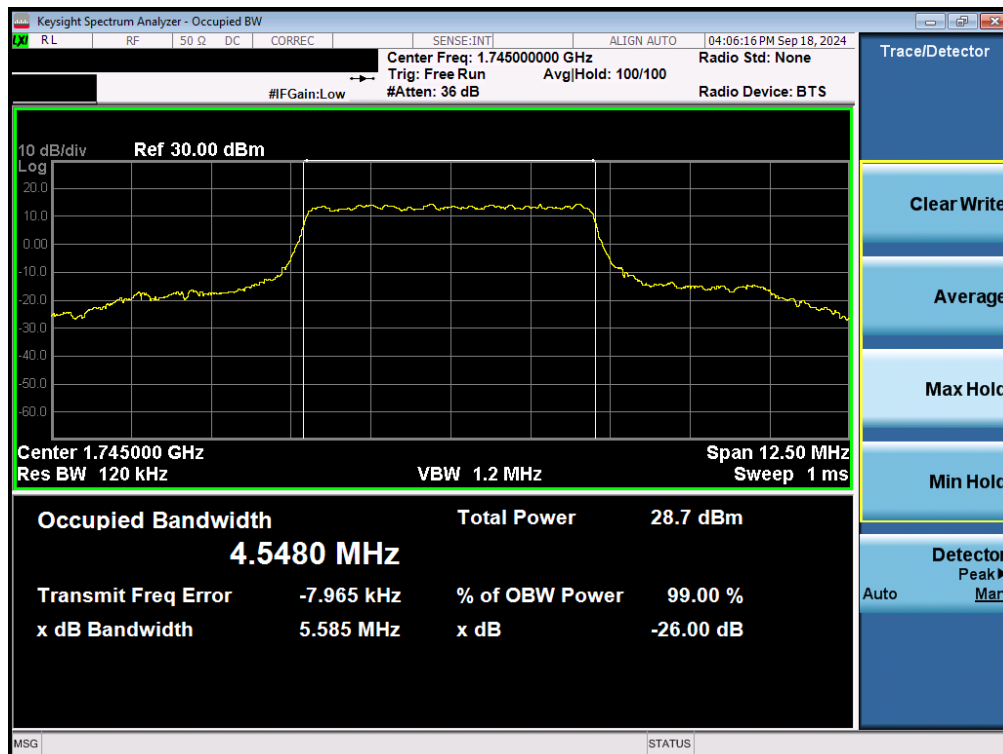


Plot 7-194. Occupied Bandwidth Plot (NR Band n66 - 10.0MHz CP-OFDM 16QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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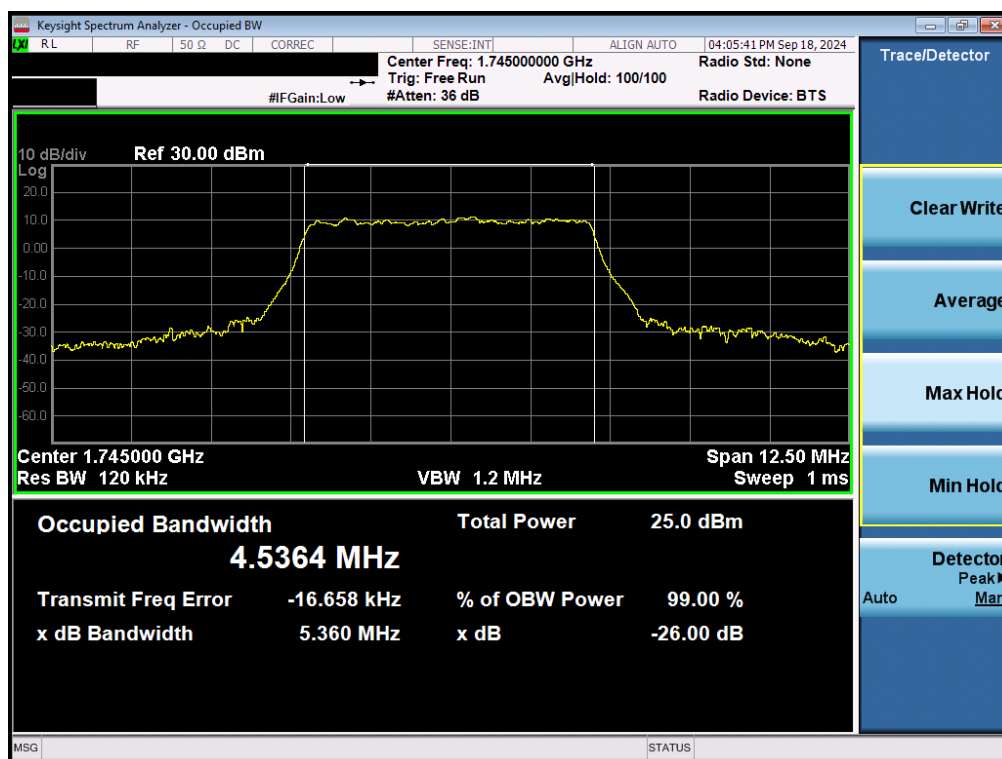


Plot 7-195. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB – ANT2)



Plot 7-196. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-197. Occupied Bandwidth Plot (NR Band n66 - 5.0MHz CP-OFDM 16QAM - Full RB – ANT2)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.4 Spurious and Harmonic Emissions at Antenna Terminal

Test Overview

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10th harmonic. All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The minimum permissible attenuation level of any spurious emission is $43 + 10 \log_{10}(P_{[Watts]})$, where P is the transmitter power in Watts.

Test Procedure Used

ANSI C63.26-2015 – Section 5.7.4

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 18GHz (separated into at least two plots per channel)
2. RBW $\geq$ 100kHz
3. VBW $\geq$ 3 x RBW
4. Detector = RMS
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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

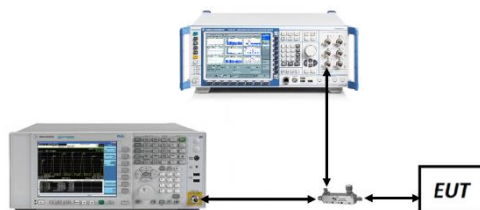


Figure 7-3. Test Instrument & Measurement Setup

Test Notes

1. Per Part 27 and RSS-139, compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth 100 kHz or greater for measurements below 1GHz.
2. For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 71	20 MHz	Low	30.0 - 662.0	-64.37	-13	-51.37
		Low	698.0 - 1000.0	-65.93	-13	-52.93
		Low	1000.0 - 10000.0	-40.05	-13	-27.05
		Mid	30.0 - 663.0	-66.48	-13	-53.48
		Mid	698.0 - 1000.0	-66.01	-13	-53.01
		Mid	1000.0 - 10000.0	-40.04	-13	-27.04
		High	30.0 - 663.0	-46.77	-13	-33.77
		High	699.0 - 1000.0	-65.15	-13	-52.15
		High	1000.0 - 10000.0	-39.87	-13	-26.87
LTE Band 12	10 MHz	Low	30.0 - 697.9	-63.74	-13	-50.74
		Low	716.0 - 1000.0	-65.52	-13	-52.52
		Low	1000.0 - 10000.0	-39.73	-13	-26.73
		Mid	30.0 - 698.0	-63.06	-13	-50.06
		Mid	716.0 - 1000.0	-65.71	-13	-52.71
		Mid	1000.0 - 10000.0	-39.51	-13	-26.51
		High	30.0 - 697.9	-65.73	-13	-52.73
		High	716.1 - 1000.0	-61.97	-13	-48.97
		High	1000.0 - 10000.0	-39.22	-13	-26.22
LTE Band 13	10 MHz	Mid	30.0 - 777.0	-65.97	-35	-30.97
		Mid	787.0 - 1000.0	-65.95	-13	-52.95
		Mid	1000.0 - 20000.0	-39.42	-13	-26.42

Table 7-9. Conducted Spurious Emissions Results – Ant1

Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
NR Band n71	35 MHz	Mid	30.0 - 663.0	-64.58	-13	-51.58
		Mid	698.0 - 1000.0	-64.57	-13	-51.57
		Mid	1000.0 - 10000.0	-42.92	-13	-29.92
NR Band n12	15 MHz	Low	30.0 - 698.0	-62.21	-13	-49.21
		Low	716.0 - 1000.0	-62.54	-13	-49.54
		Low	1000.0 - 10000.0	-45.25	-13	-32.25
		Mid	30.0 - 698.0	-62.18	-13	-49.18
		Mid	716.0 - 1000.0	-62.27	-13	-49.27
		Mid	1000.0 - 10000.0	-45.92	-13	-32.92
		High	30.0 - 698.0	-61.11	-13	-48.11
		High	716.0 - 1000.0	-63.09	-13	-50.09
		High	1000.0 - 10000.0	-46.01	-13	-33.01

Table 7-10. Conducted Spurious Emissions Results – Ant1

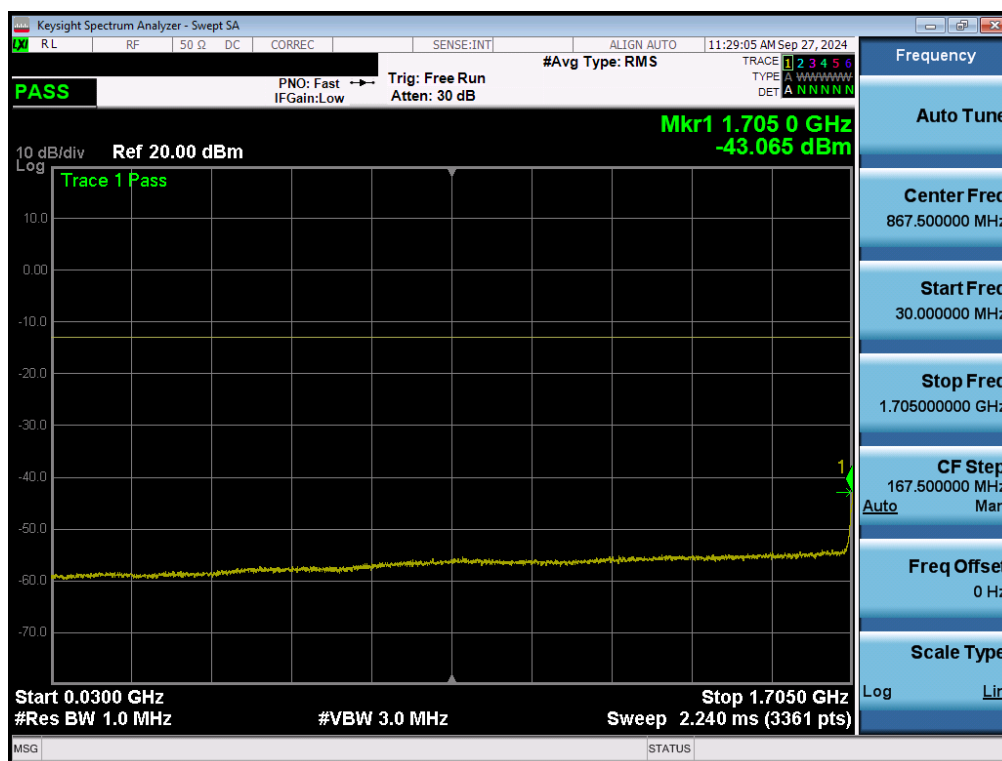
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Channel	Range [MHz]	Level [dBm]	Limit [dBm]	Margin [dB]
WCDMA1700	N/A	Low	30.0 - 1705.0	-43.07	-13	-30.07
		Low	1755.0 - 10000.0	-47.58	-13	-34.58
		Low	10000.0 - 20000.0	-63.31	-13	-50.31
		Mid	30.0 - 1710.0	-54.04	-13	-41.04
		Mid	1755.0 - 10000.0	-47.62	-13	-34.62
		Mid	10000.0 - 20000.0	-63.15	-13	-50.15
		High	30.0 - 1710.0	-54.15	-13	-41.15
		High	1760.0 - 10000.0	-43.14	-13	-30.14
		High	10000.0 - 20000.0	-63.21	-13	-50.21
LTE-B66-4	20 MHz	Low	30.0 - 663.0	-52.35	-13	-39.35
		Low	698.0 - 1000.0	-45.29	-13	-32.29
		Low	1000.0 - 10000.0	-60.35	-13	-47.35
		Mid	30.0 - 663.0	-54.31	-13	-41.31
		Mid	698.0 - 1000.0	-46.07	-13	-33.07
		Mid	1000.0 - 10000.0	-60.65	-13	-47.65
		High	30.0 - 663.0	-53.90	-13	-40.90
		High	698.0 - 1000.0	-45.70	-13	-32.70
		High	1000.0 - 10000.0	-60.51	-13	-47.51
NR Band n70	15 MHz	Mid	30.0 - 1695.0	-52.27	-13	-39.27
		Mid	1710.0 - 10000.0	-46.35	-13	-33.35
		Mid	10000.0 - 20000.0	-61.36	-13	-48.36
NR Band n66	45 MHz	Low	30.0 - 1710.0	-49.50	-13	-36.50
		Low	1780.0 - 10000.0	-43.42	-13	-30.42
		Low	10000.0 - 20000.0	-59.32	-13	-46.32
		Mid	30.0 - 1710.0	-49.83	-13	-36.83
		Mid	1780.0 - 10000.0	-43.55	-13	-30.55
		Mid	10000.0 - 20000.0	-59.14	-13	-46.14
		High	30.0 - 1710.0	-49.65	-13	-36.65
		High	1780.0 - 10000.0	-43.55	-13	-30.55
		High	10000.0 - 20000.0	-59.16	-13	-46.16

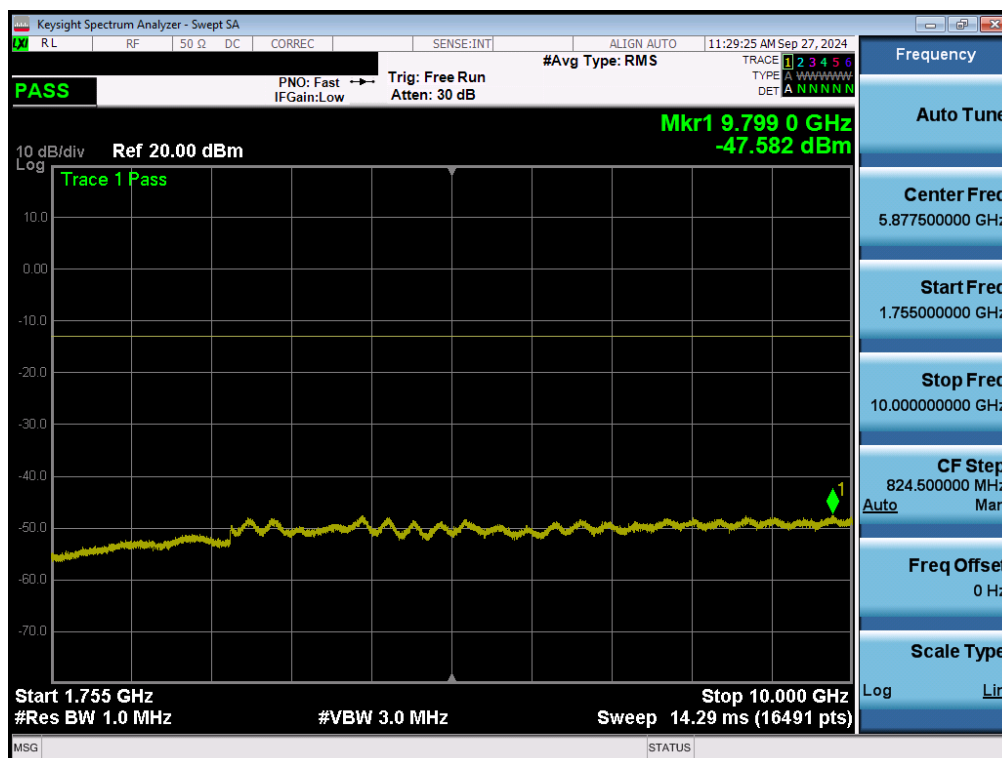
Table 7-11. Conducted Spurious Emissions Results – Ant1

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 128 of 272

WCDMA-AWS – ANT1

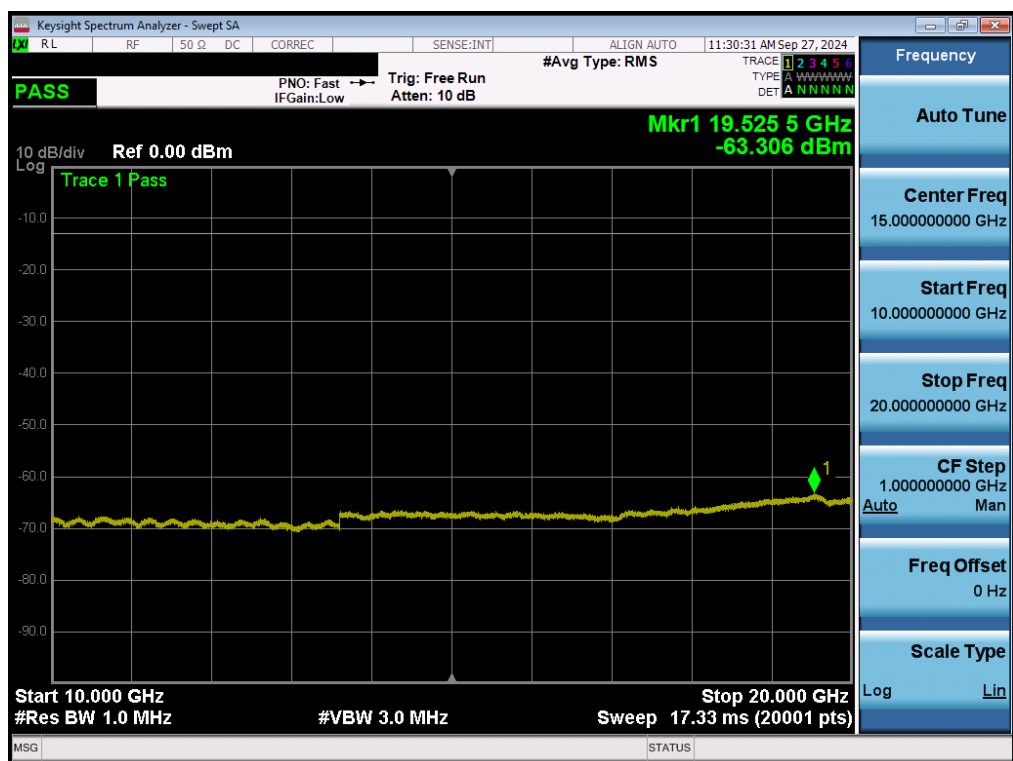


Plot 7-198. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB – Low Channel)



Plot 7-199. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB – Low Channel)

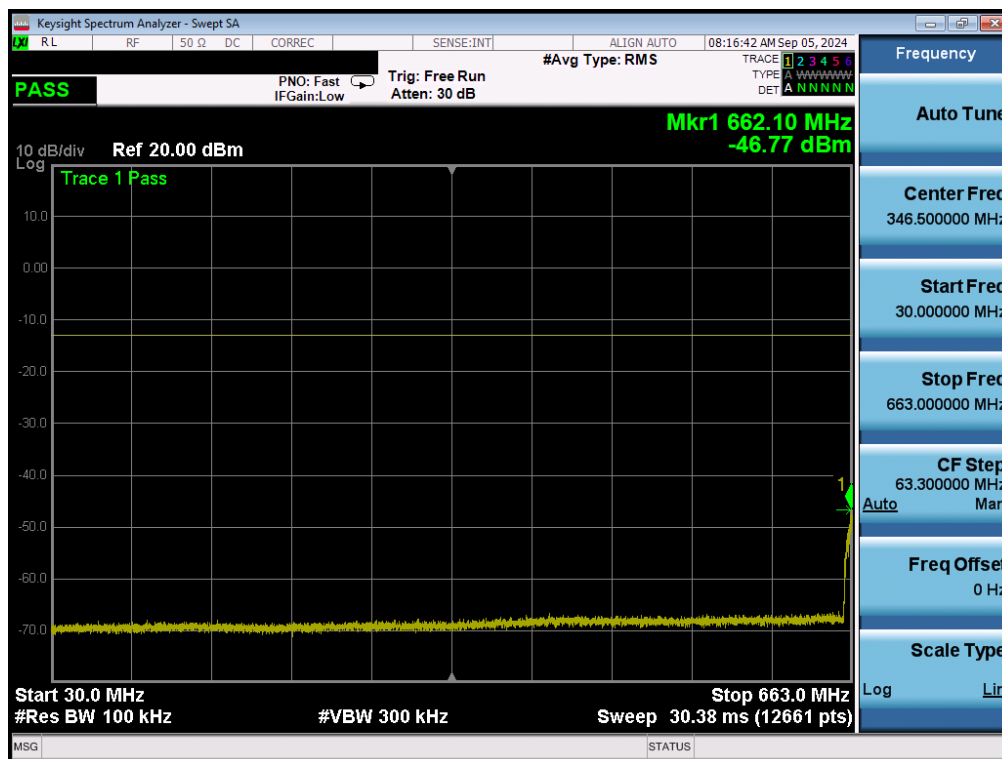
FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 129 of 272



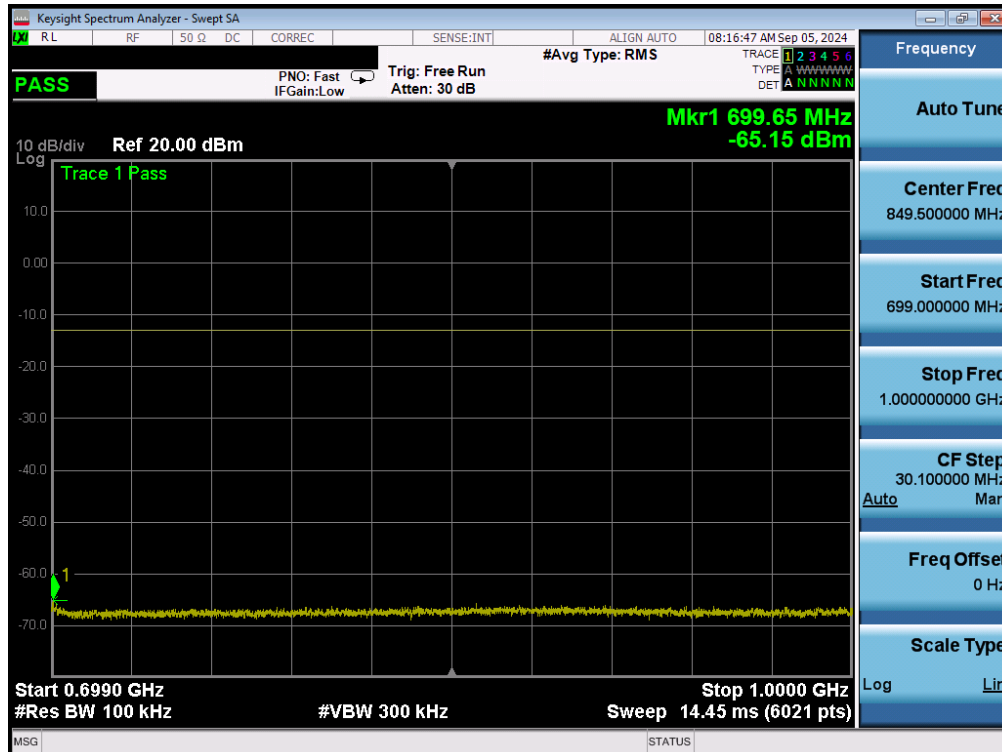
Plot 7-200. Conducted Spurious Plot (WCDMA-AWS - 5MHz QPSK - 1 RB - Low Channel)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 130 of 272

LTE Band 71 – ANT1



Plot 7-201. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - High Channel - ANT1)



Plot 7-202. Conducted Spurious Plot (LTE Band 71 - 20MHz QPSK - 1 RB - High Channel - ANT1)

FCC ID: A3LSMS938U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260067-03-R1.A3L	Test Dates: 09/06/2024 - 10/30/2024	EUT Type: Portable Handset	Page 131 of 272