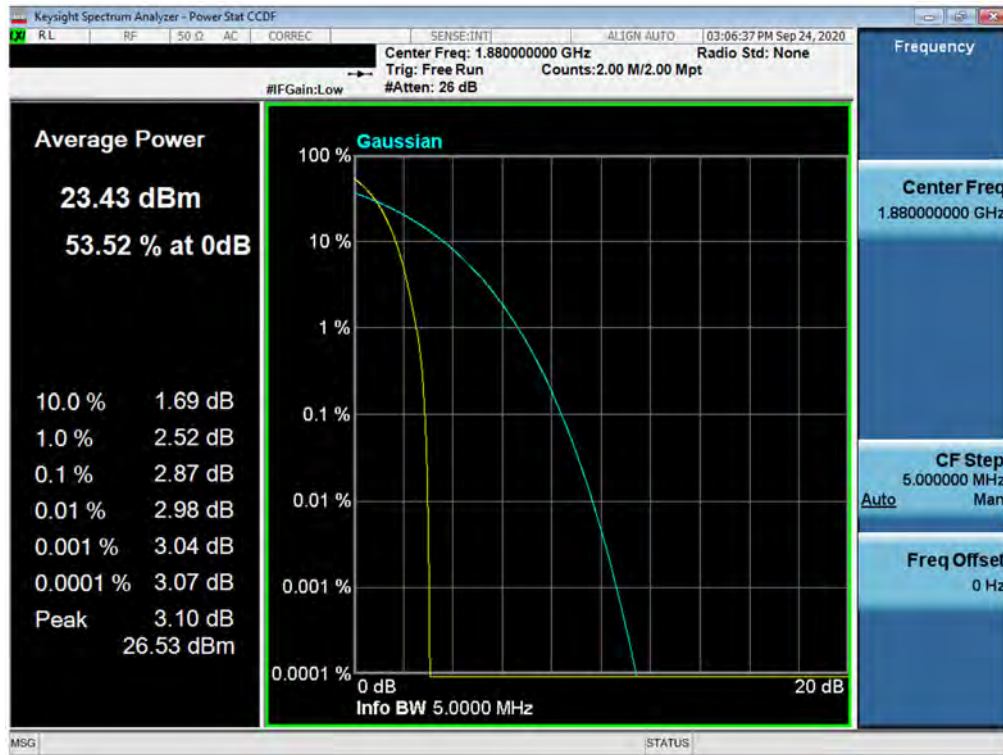


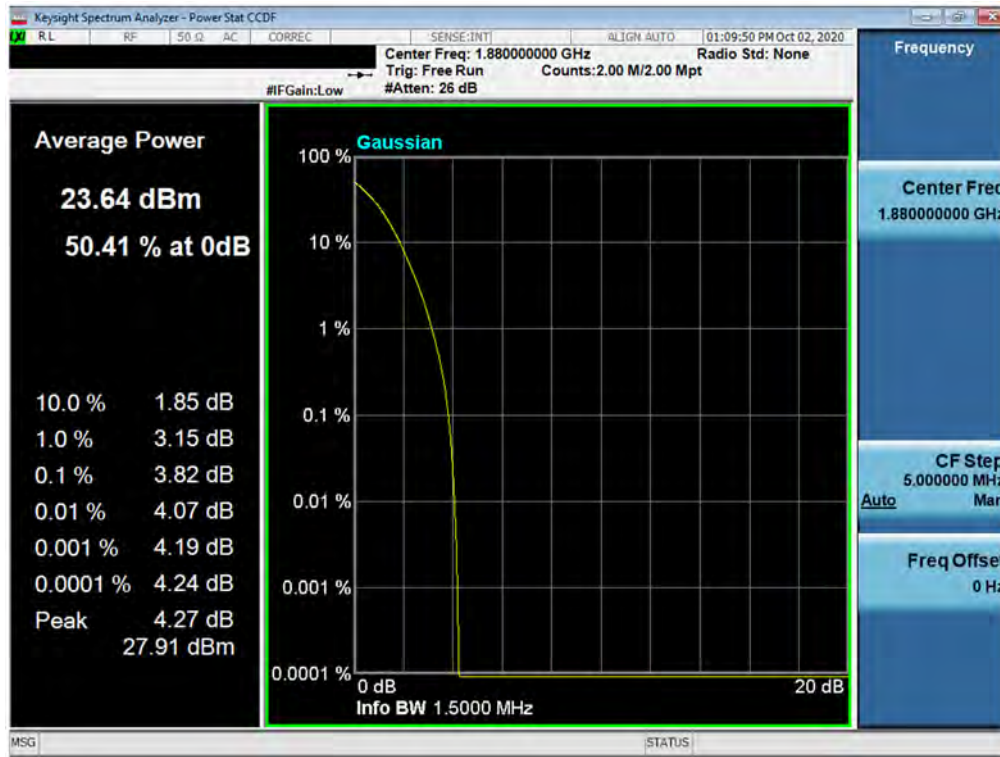
WCDMA PCS



Plot 7-248. PAR Plot (WCDMA, Ch. 9400)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 160 of 241

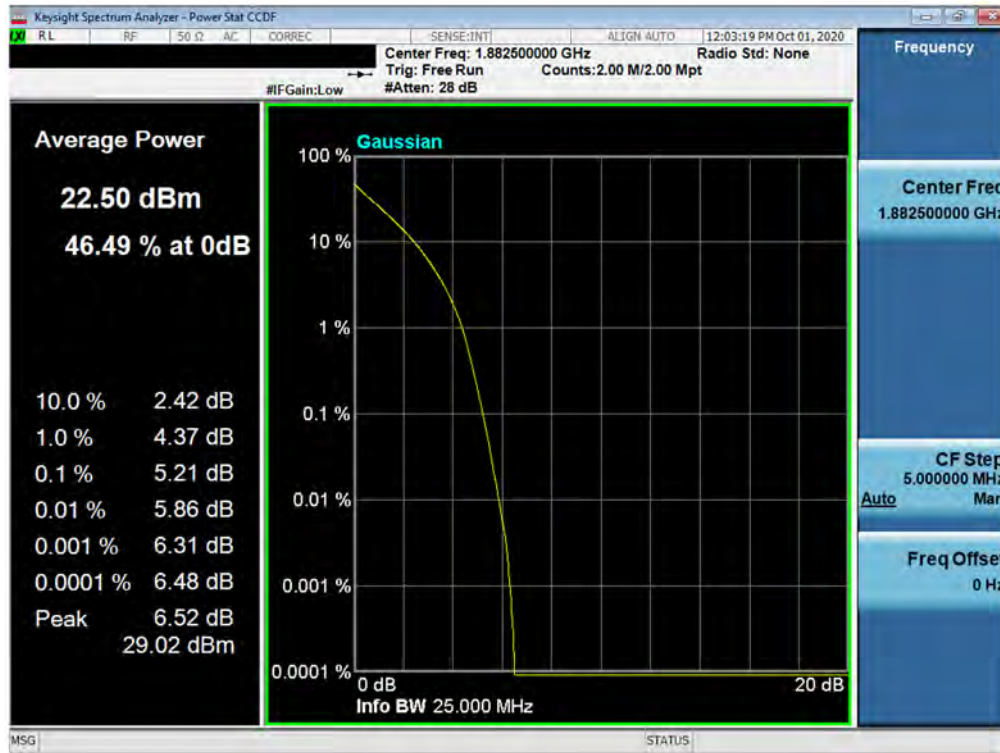
CDMA PCS



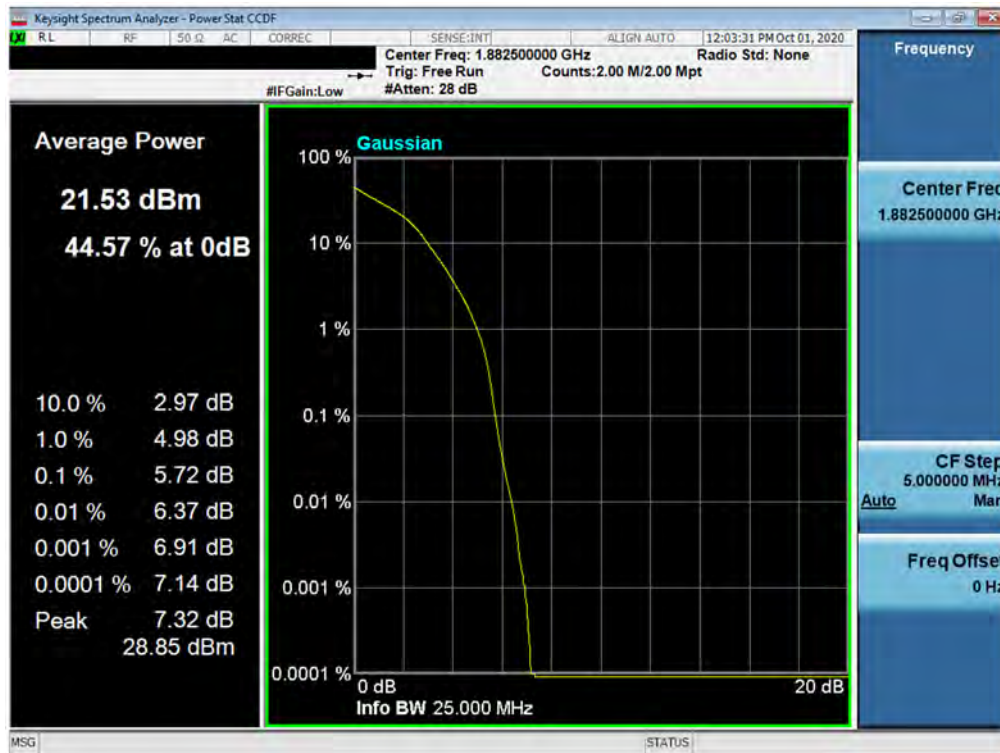
Plot 7-249. PAR Plot (CDMA, Ch. 600)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 161 of 241

LTE Band 25/2

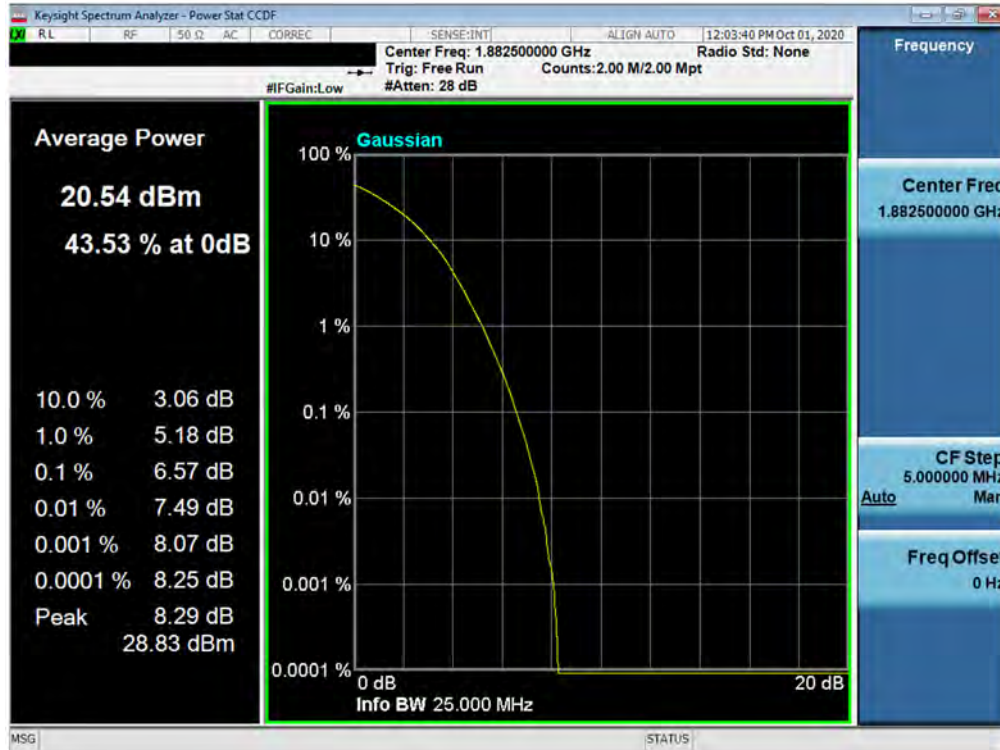


Plot 7-250. PAR Plot (LTE Band 25/2 - 20MHz QPSK - Full RB Configuration)

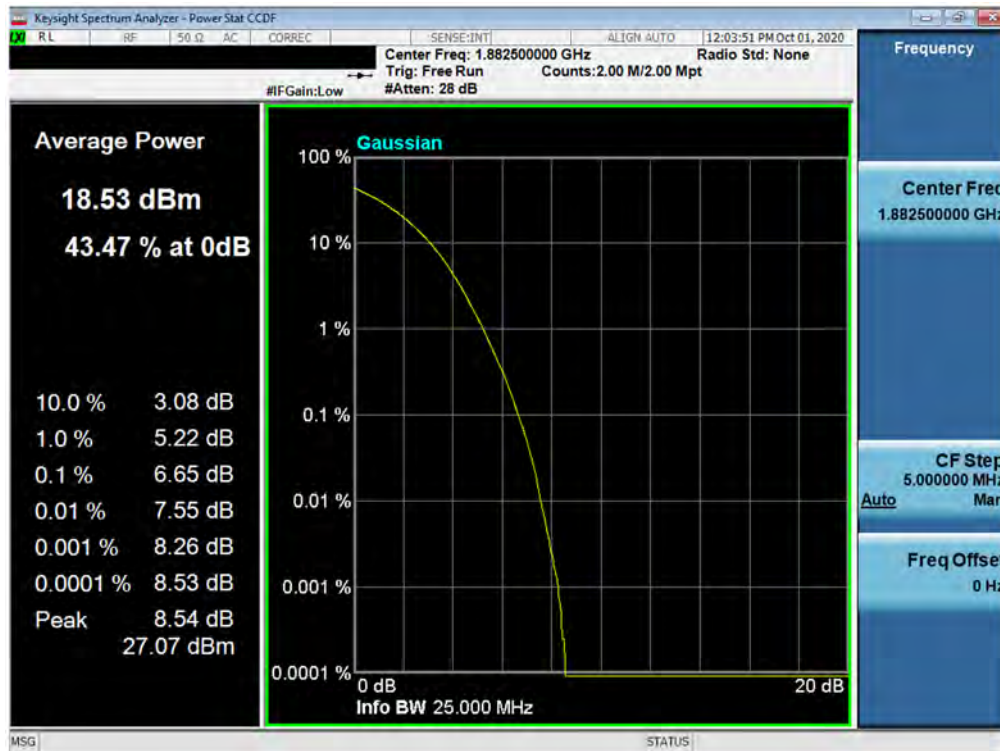


Plot 7-251. PAR Plot (LTE Band 25/2 - 20MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 - 12/11/2020	EUT Type: Portable Handset		Page 162 of 241

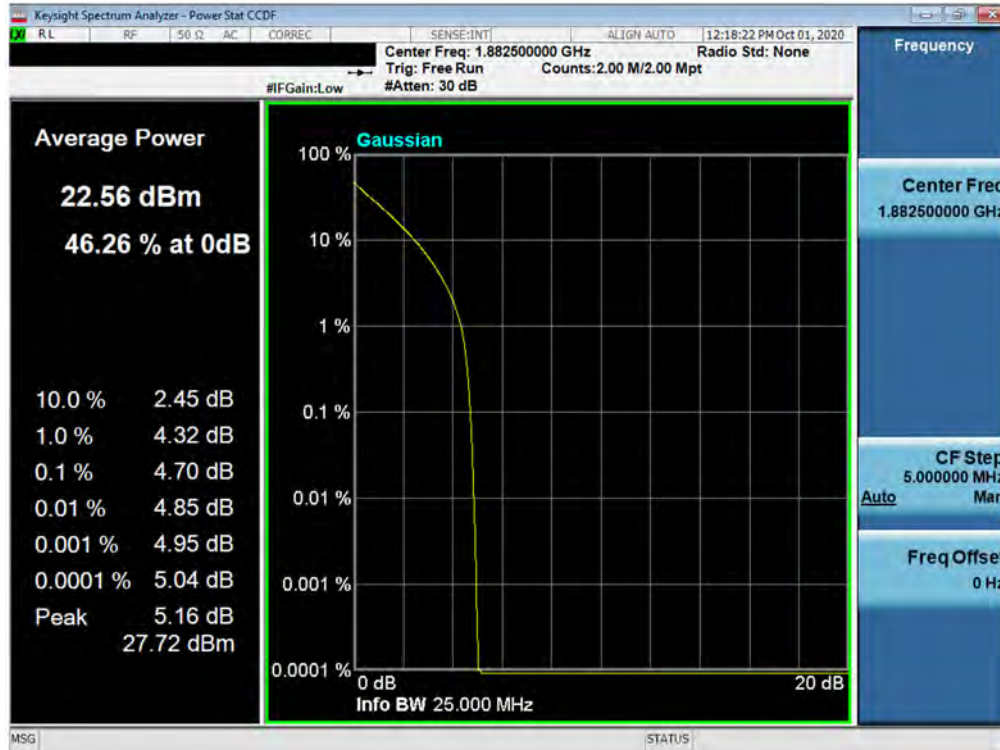


Plot 7-252. PAR Plot (LTE Band 25/2 - 20MHz 64-QAM - Full RB Configuration)

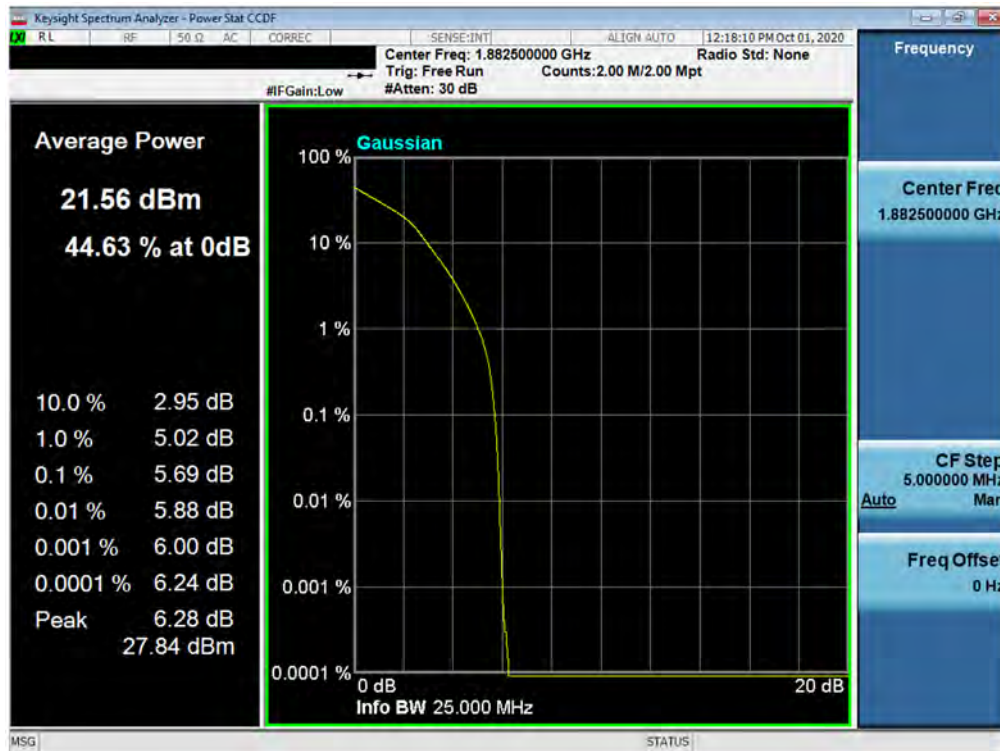


Plot 7-253. PAR Plot (LTE Band 25/2 - 20MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 163 of 241

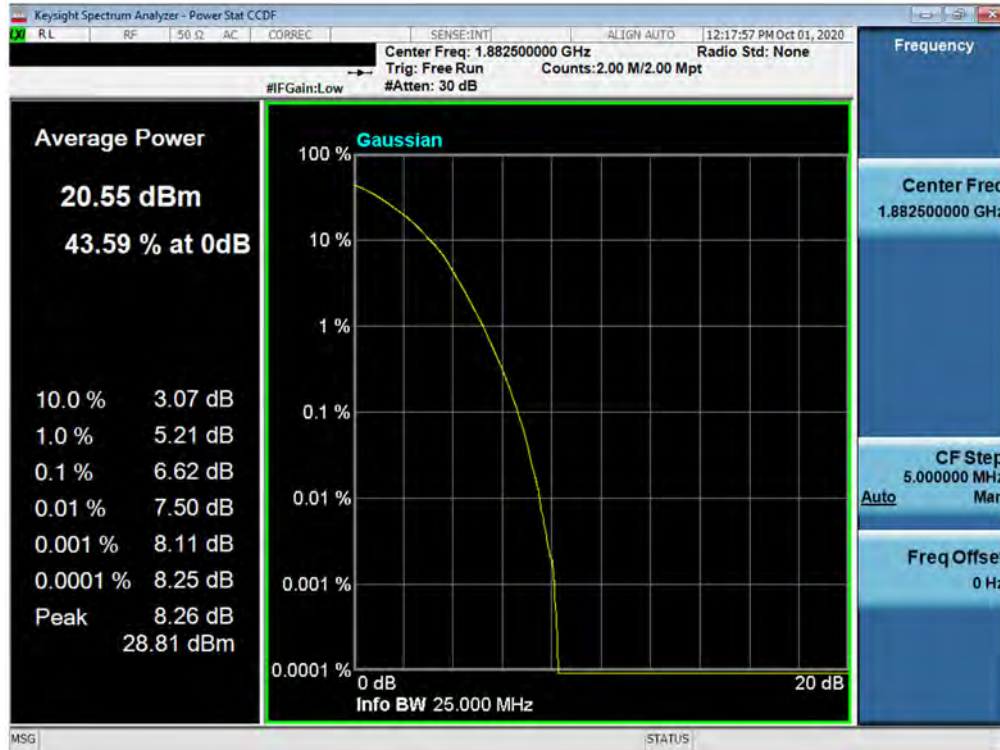


Plot 7-254. PAR Plot (LTE Band 25/2 - 15MHz QPSK - Full RB Configuration)

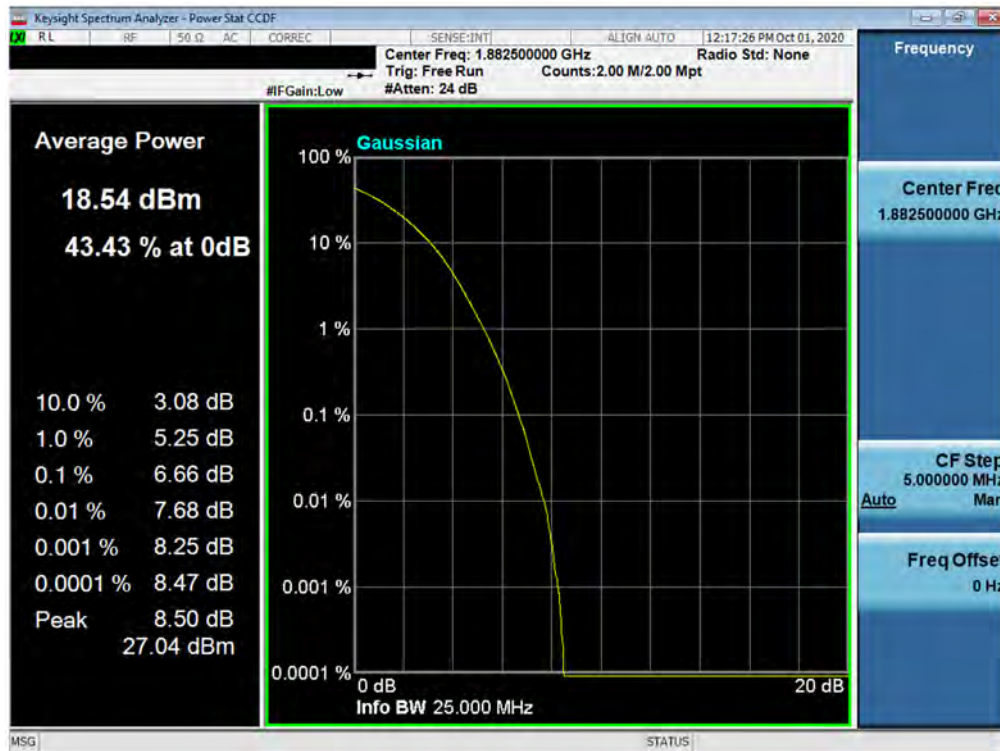


Plot 7-255. PAR Plot (LTE Band 25/2 - 15MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 - 12/11/2020	EUT Type: Portable Handset		Page 164 of 241

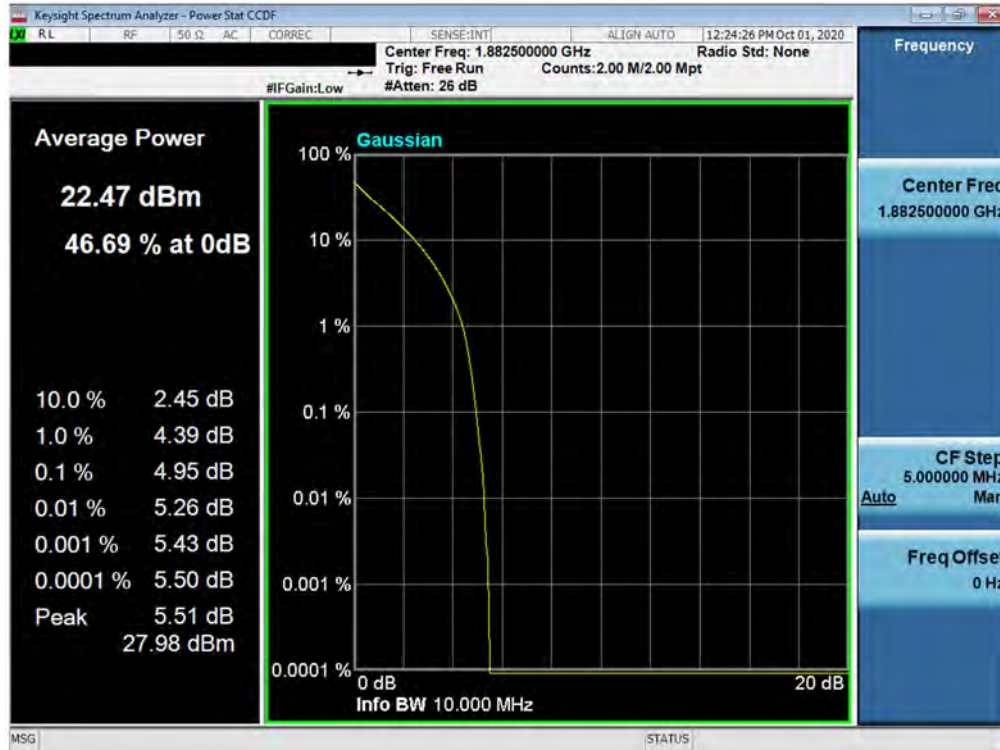


Plot 7-256. PAR Plot (LTE Band 25/2 - 15MHz 64-QAM - Full RB Configuration)

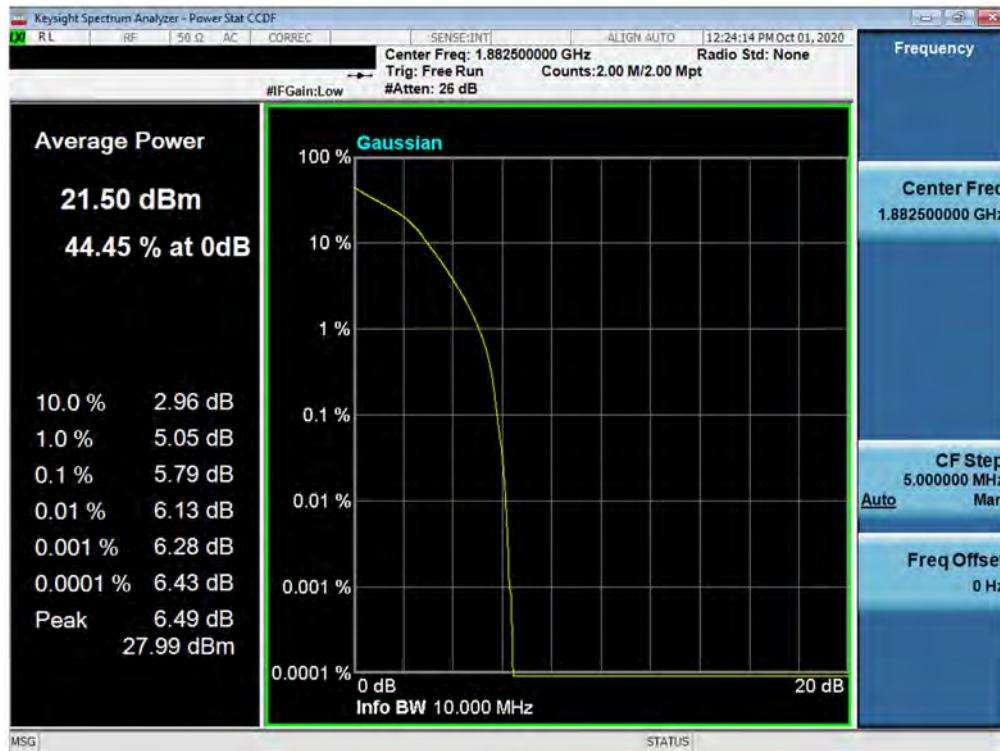


Plot 7-257. PAR Plot (LTE Band 25/2 - 15MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 165 of 241

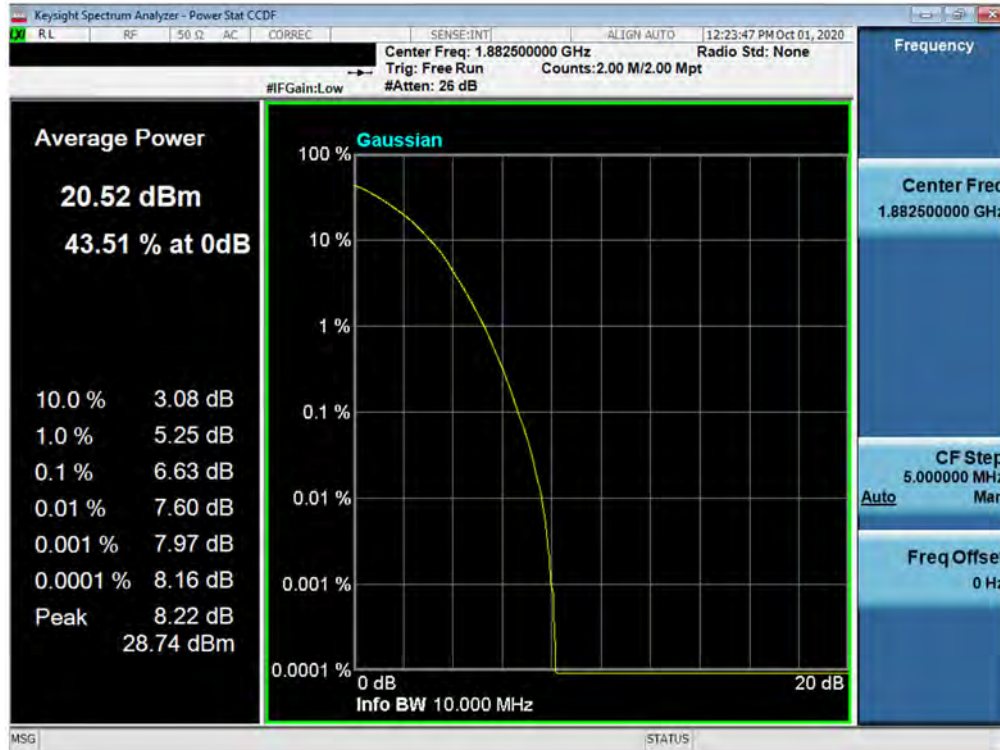


Plot 7-258. PAR Plot (LTE Band 25/2 - 10MHz QPSK - Full RB Configuration)

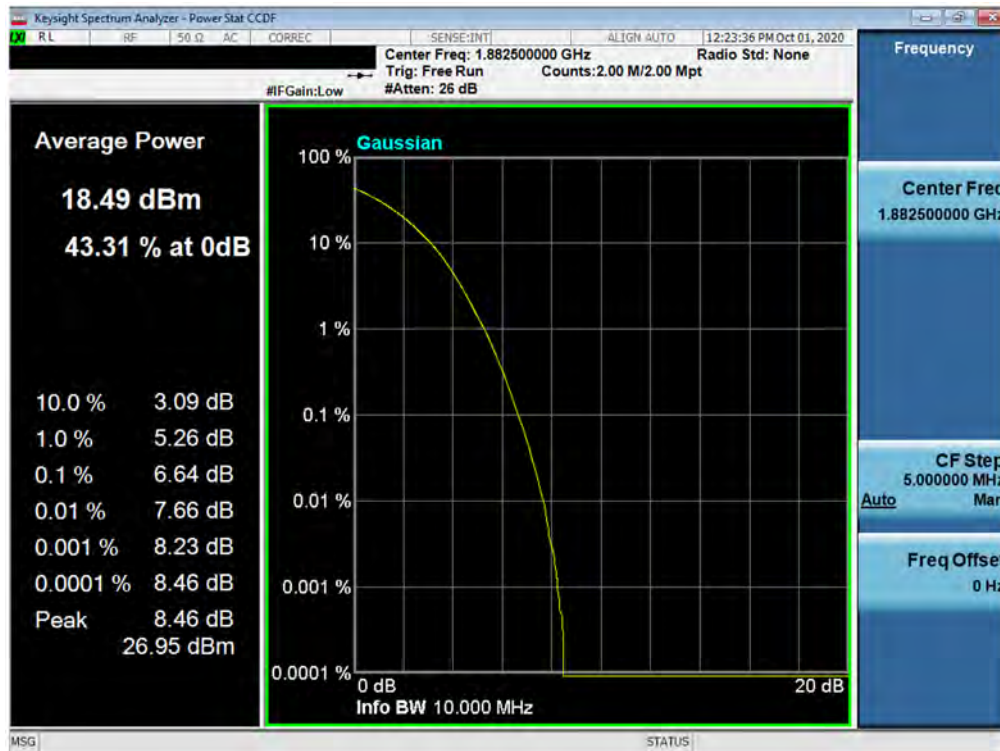


Plot 7-259. PAR Plot (LTE Band 25/2 - 10MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 166 of 241

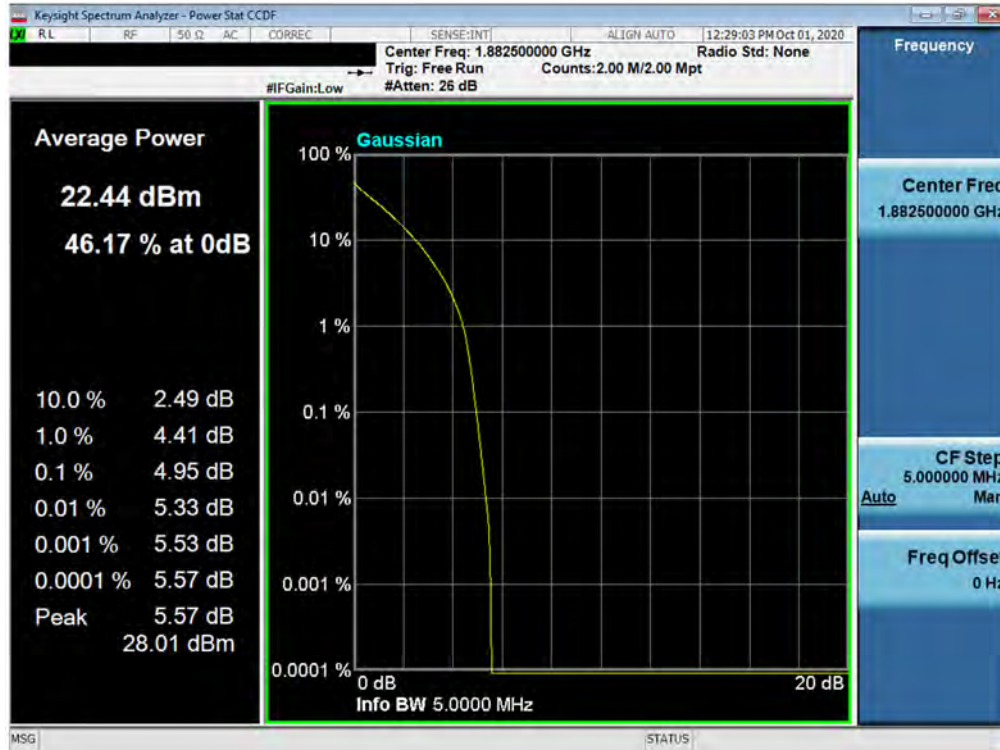


Plot 7-260. PAR Plot (LTE Band 25/2 - 10MHz 64-QAM - Full RB Configuration)

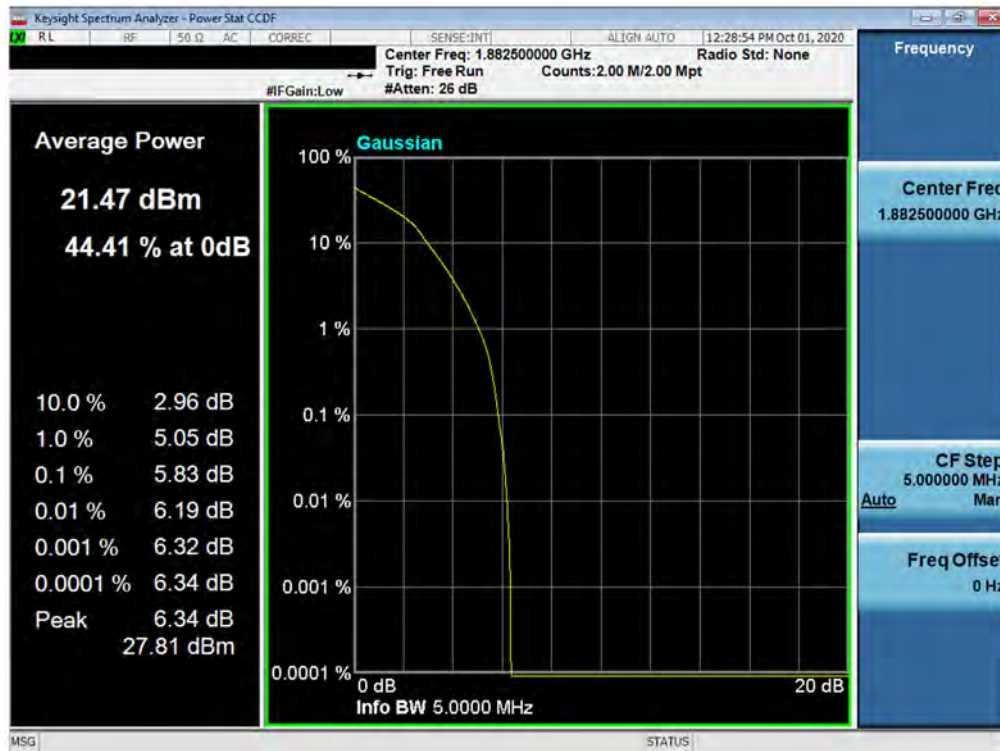


Plot 7-261. PAR Plot (LTE Band 25/2 - 10MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 - 12/11/2020	EUT Type: Portable Handset		Page 167 of 241

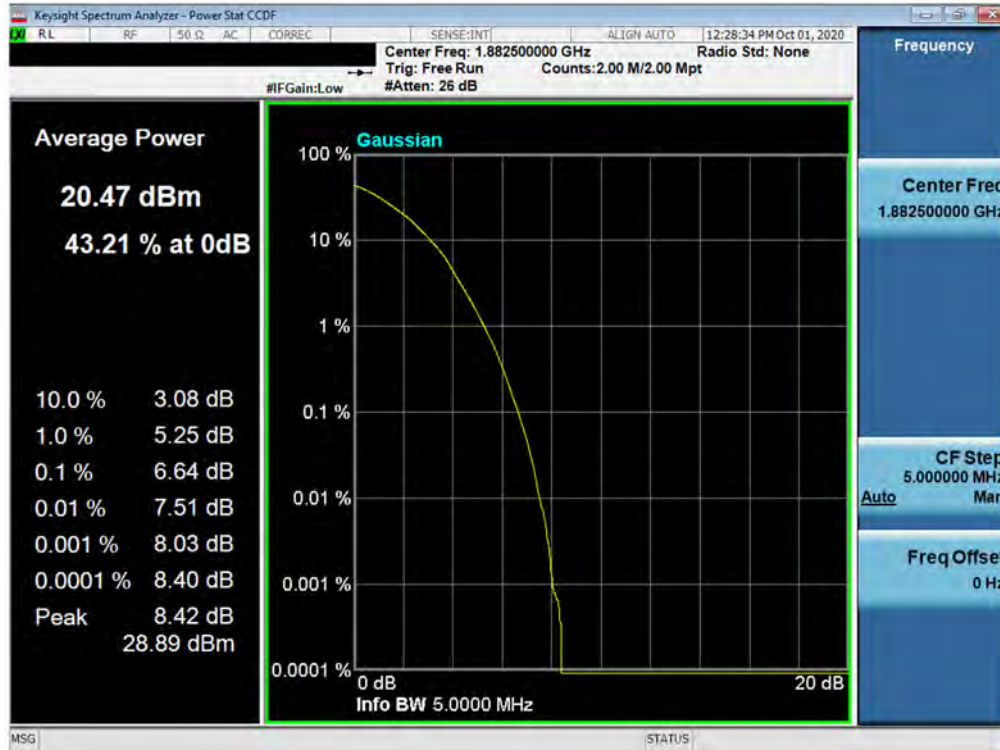


Plot 7-262. PAR Plot (LTE Band 25/2 - 5MHz QPSK - Full RB Configuration)

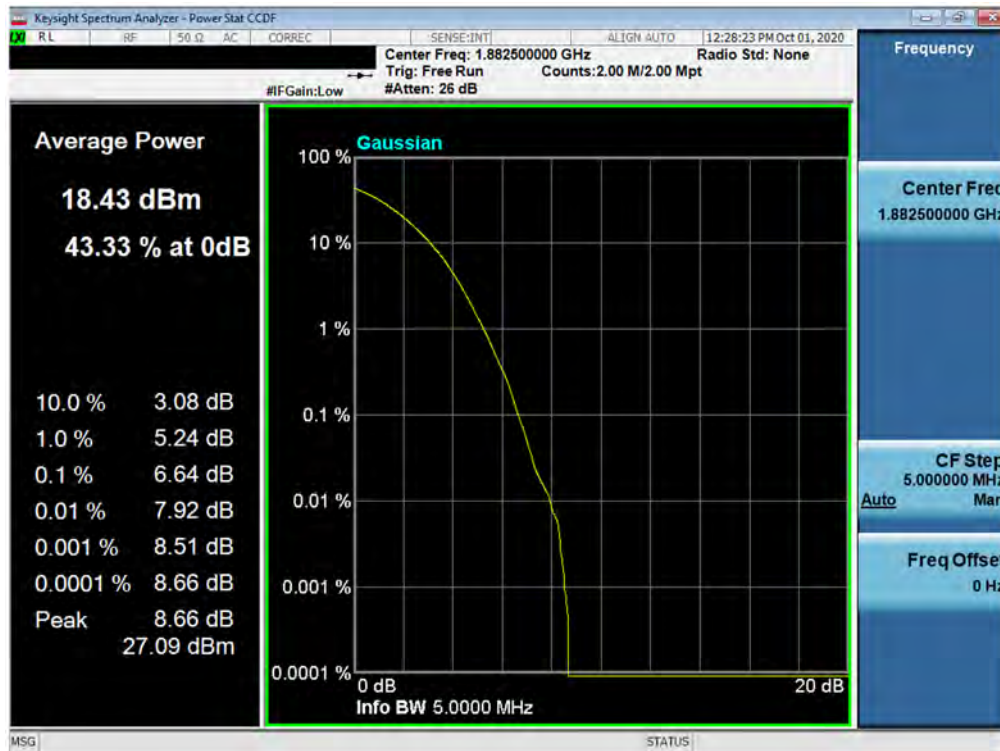


Plot 7-263. PAR Plot (LTE Band 25/2 - 5MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 168 of 241

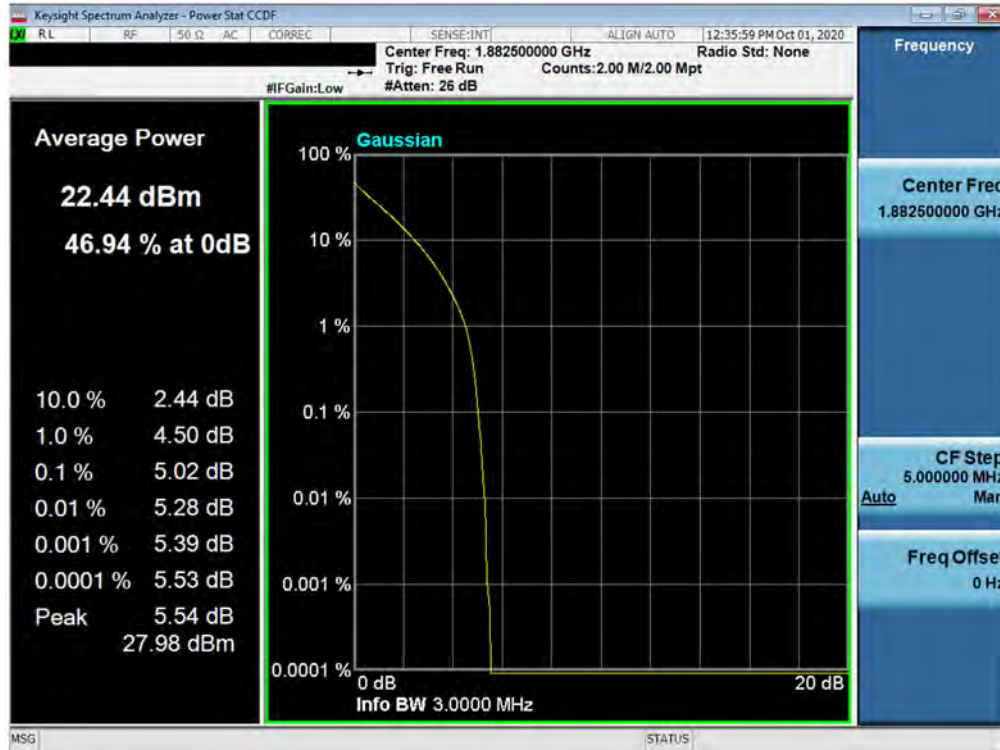


Plot 7-264. PAR Plot (LTE Band 25/2 - 5MHz 64-QAM - Full RB Configuration)

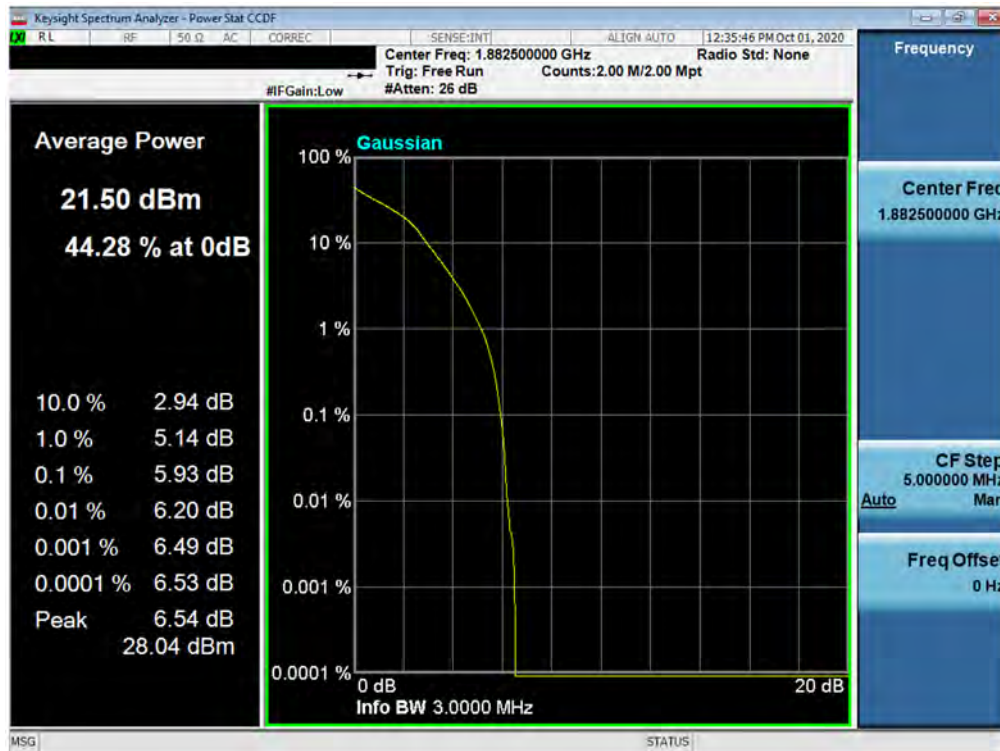


Plot 7-265. PAR Plot (LTE Band 25/2 - 5MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST PART 24 MEASUREMENT REPORT		SAMSUNG Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 - 12/11/2020	EUT Type: Portable Handset	Page 169 of 241

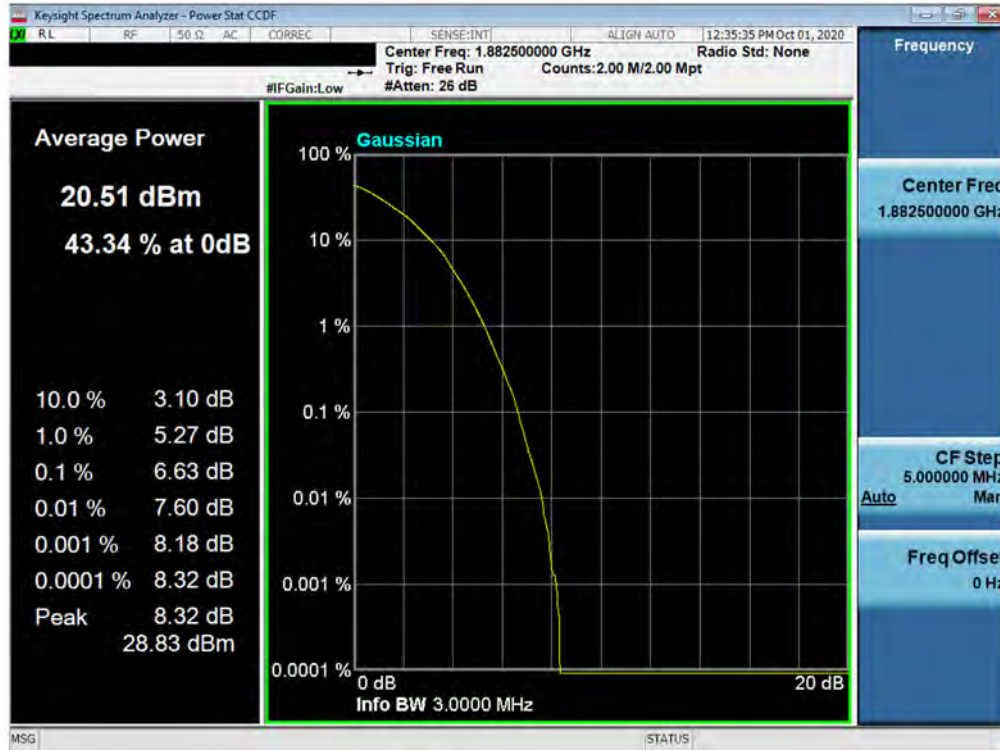


Plot 7-266. PAR Plot (LTE Band 25/2 - 3MHz QPSK - Full RB Configuration)

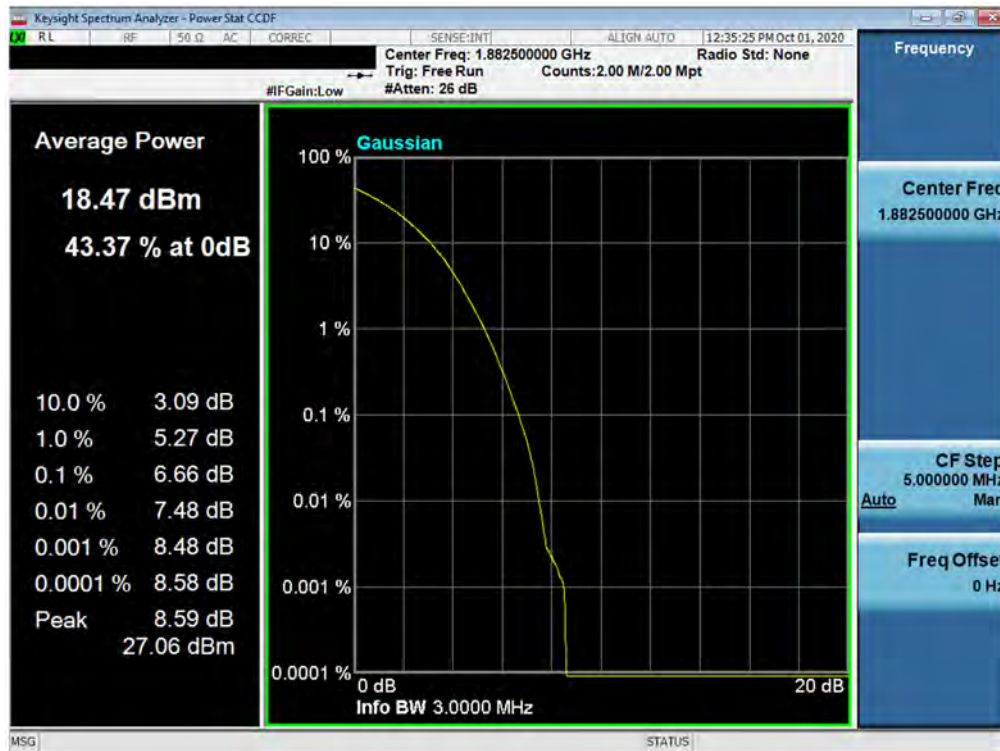


Plot 7-267. PAR Plot (LTE Band 25/2 - 3MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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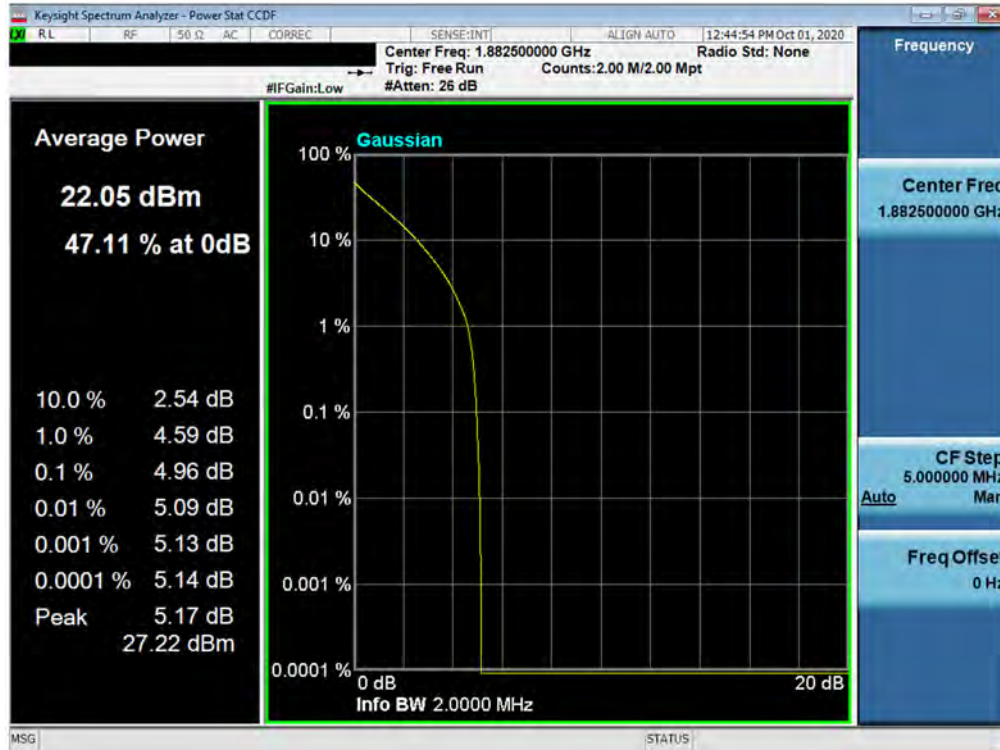


Plot 7-268. PAR Plot (LTE Band 25/2 - 3MHz 64-QAM - Full RB Configuration)

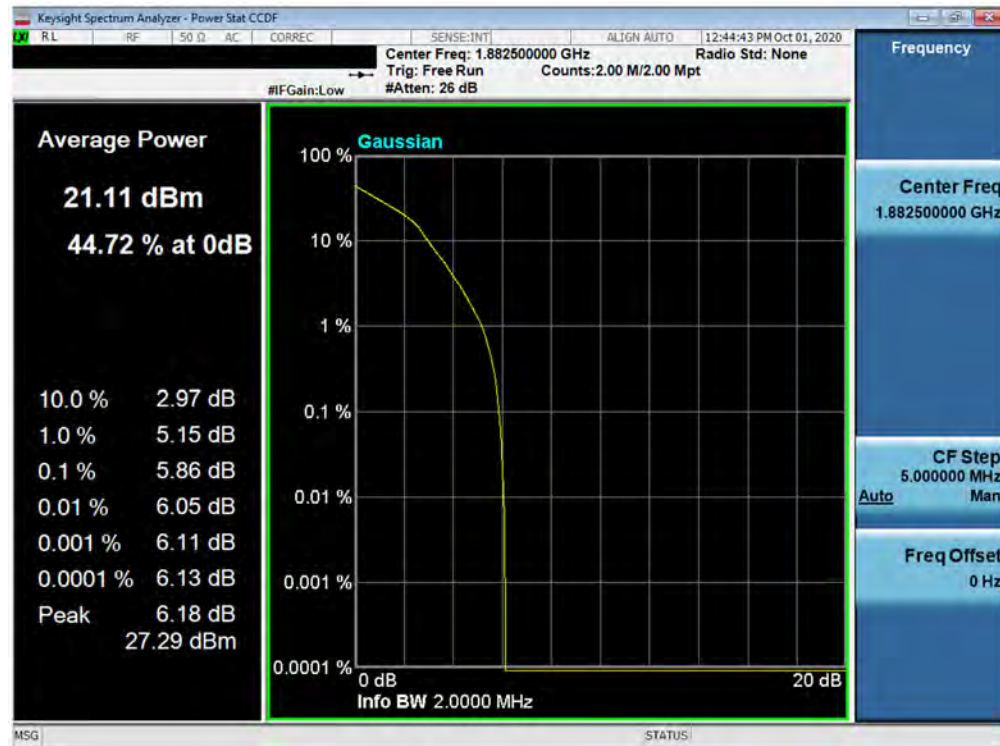


Plot 7-269. PAR Plot (LTE Band 25/2 - 3MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 171 of 241

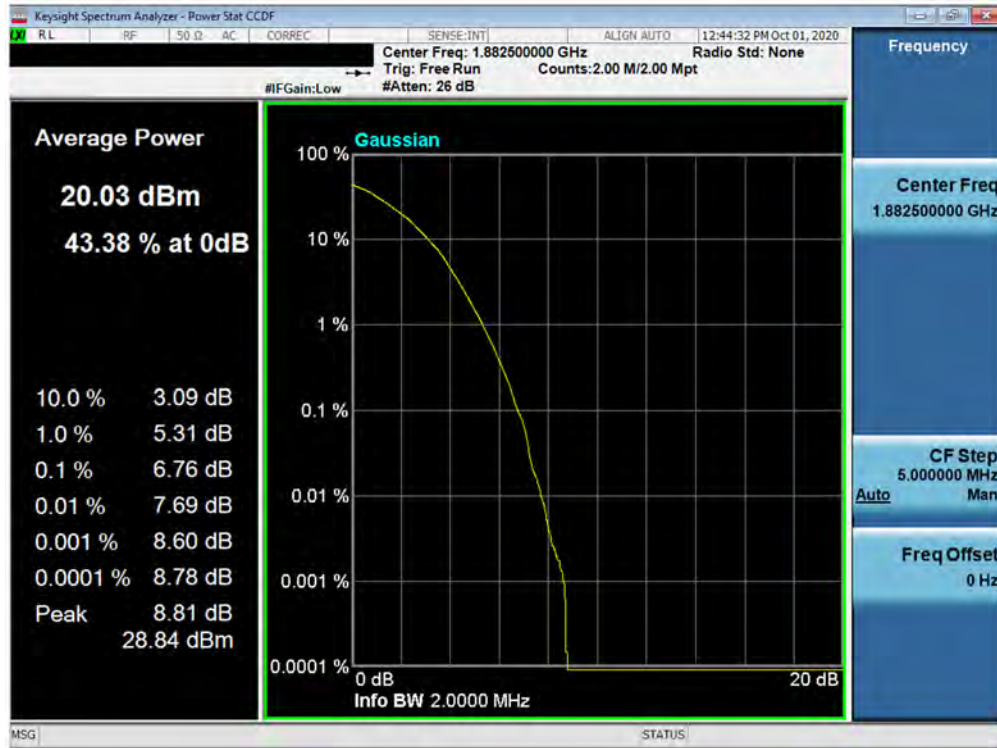


Plot 7-270. PAR Plot (LTE Band 25/2 - 1.4MHz QPSK - Full RB Configuration)

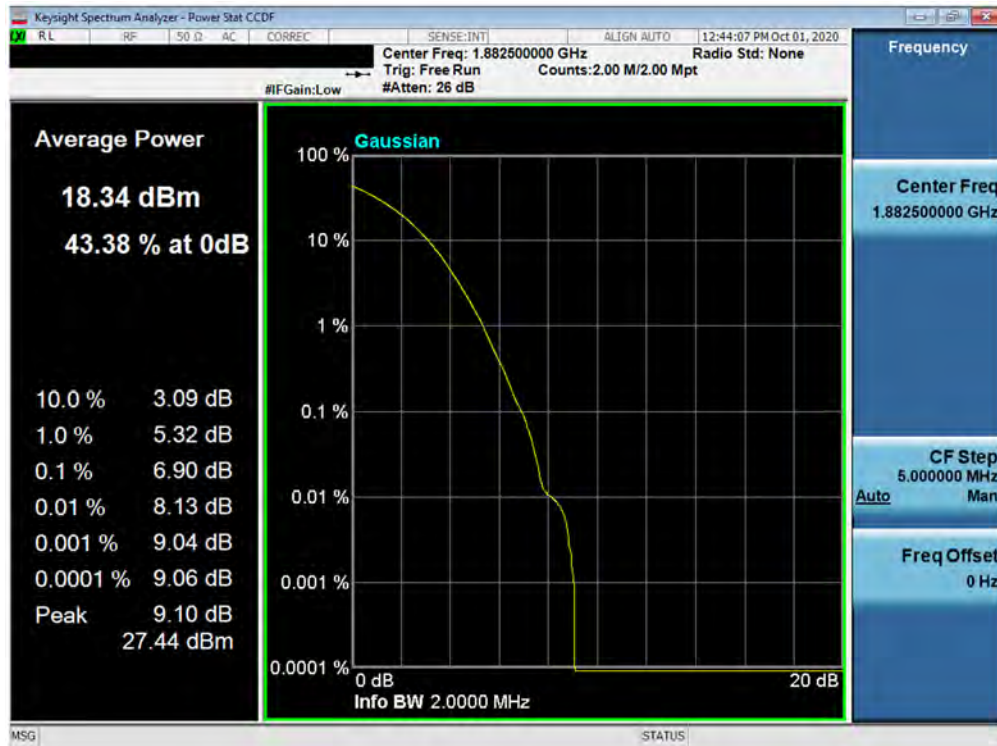


Plot 7-271. PAR Plot (LTE Band 25/2 - 1.4MHz 16-QAM - Full RB Configuration)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 172 of 241



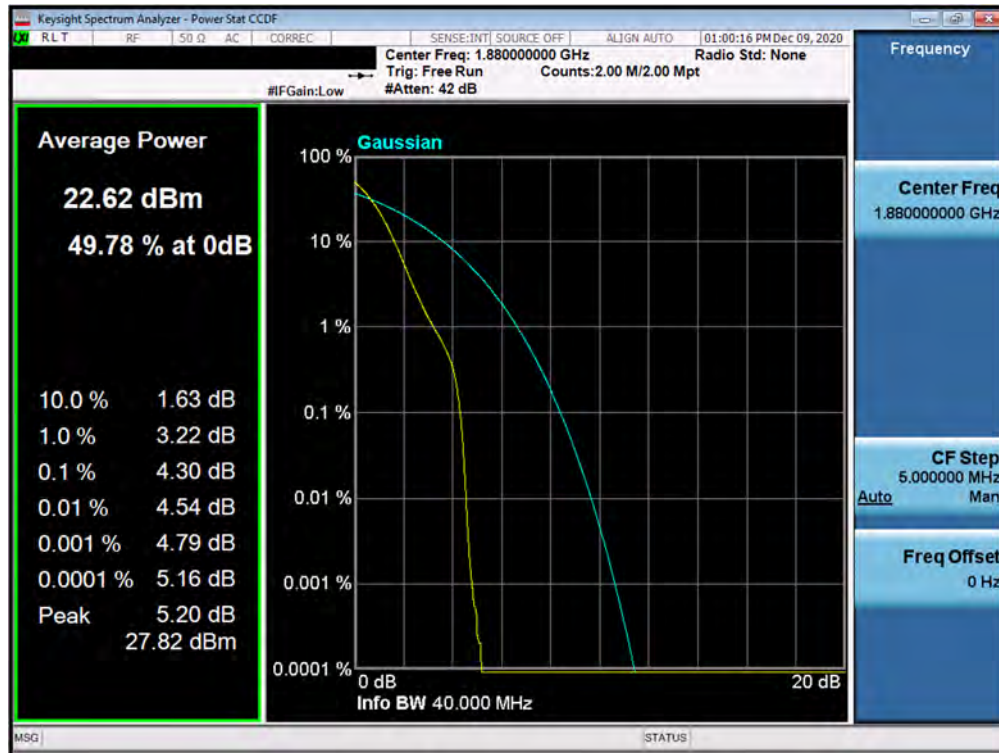
Plot 7-272. PAR Plot (LTE Band 25/2 - 1.4MHz 64-QAM - Full RB Configuration)



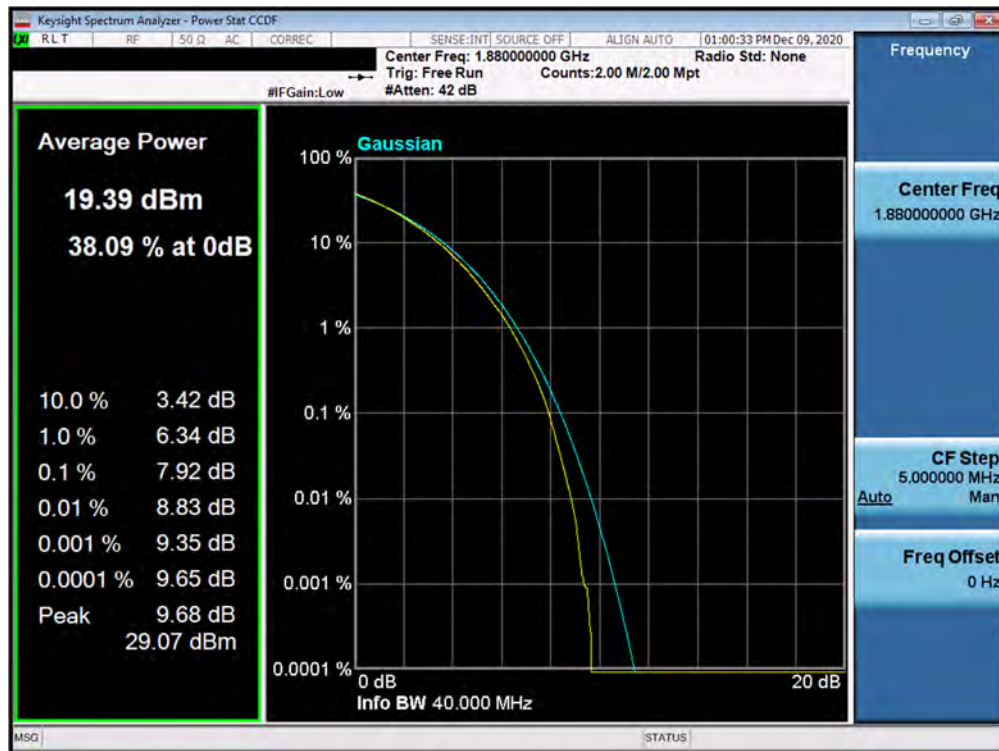
Plot 7-273. PAR Plot (LTE Band 25/2 - 1.4MHz 256-QAM - Full RB Configuration)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 173 of 241

NR Band n25 – ANT A

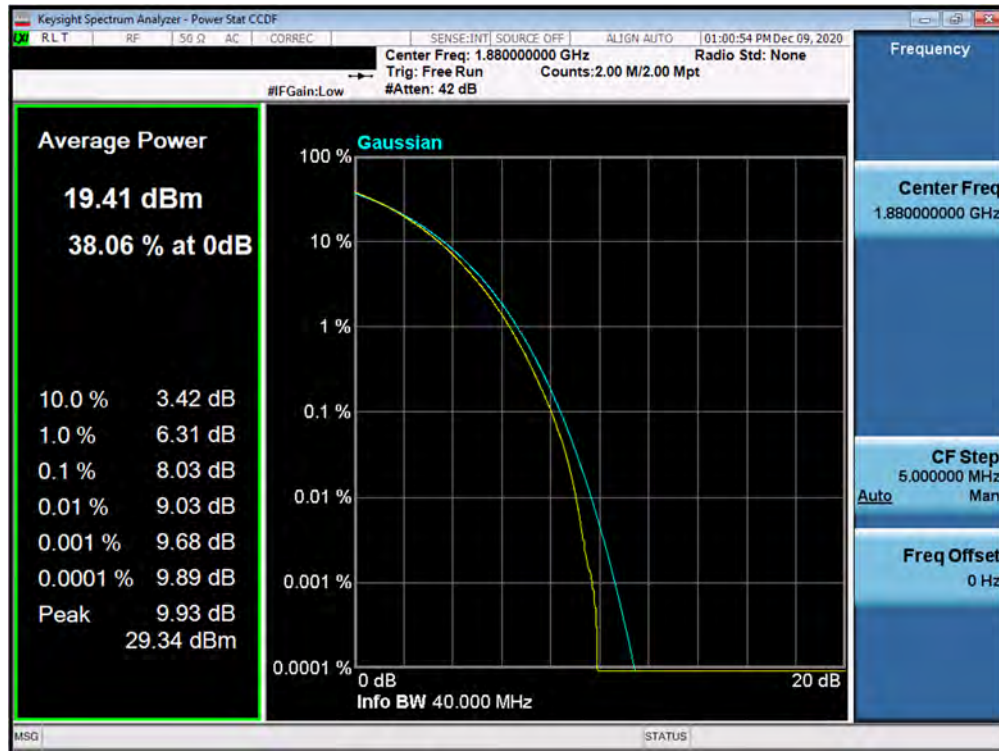


Plot 7-274. PAR Plot (NR Band n25- 40.0MHz DFT-s-OFDM BPSK - Full RB)

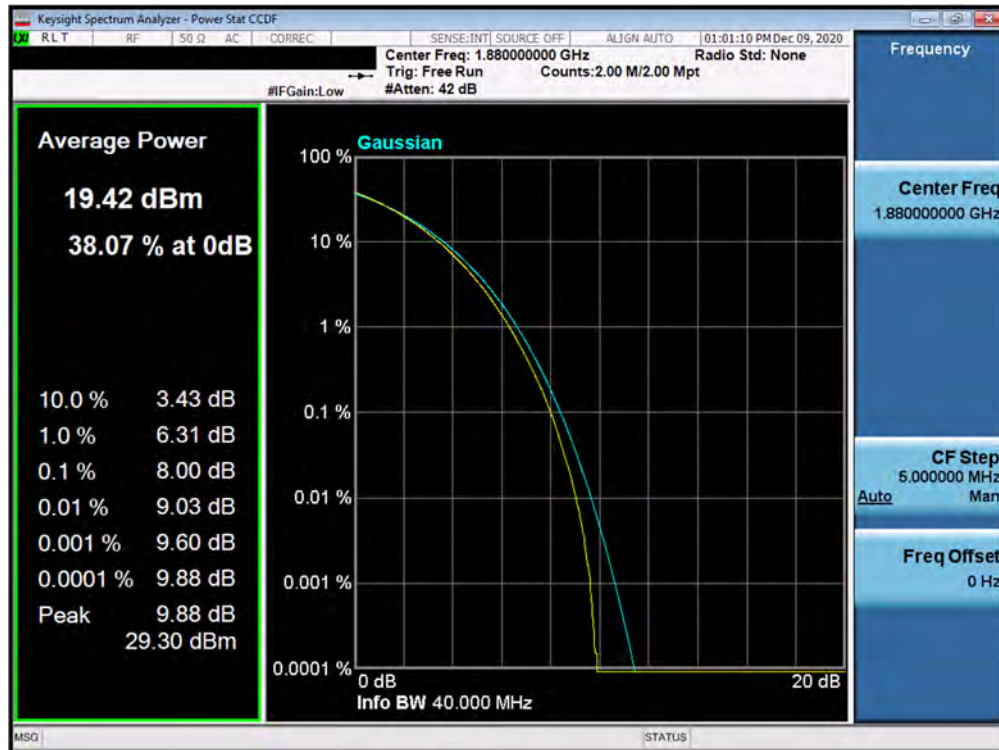


Plot 7-275. PAR Plot (NR Band n25- 40.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 174 of 241

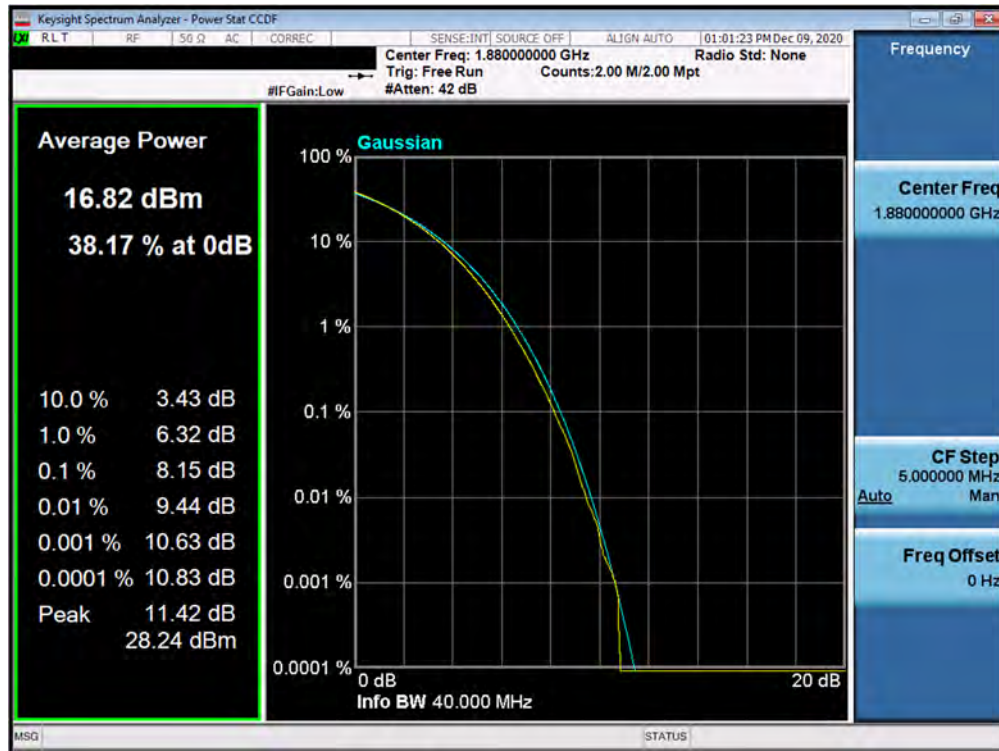


Plot 7-276. PAR Plot (NR Band n25- 40.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)

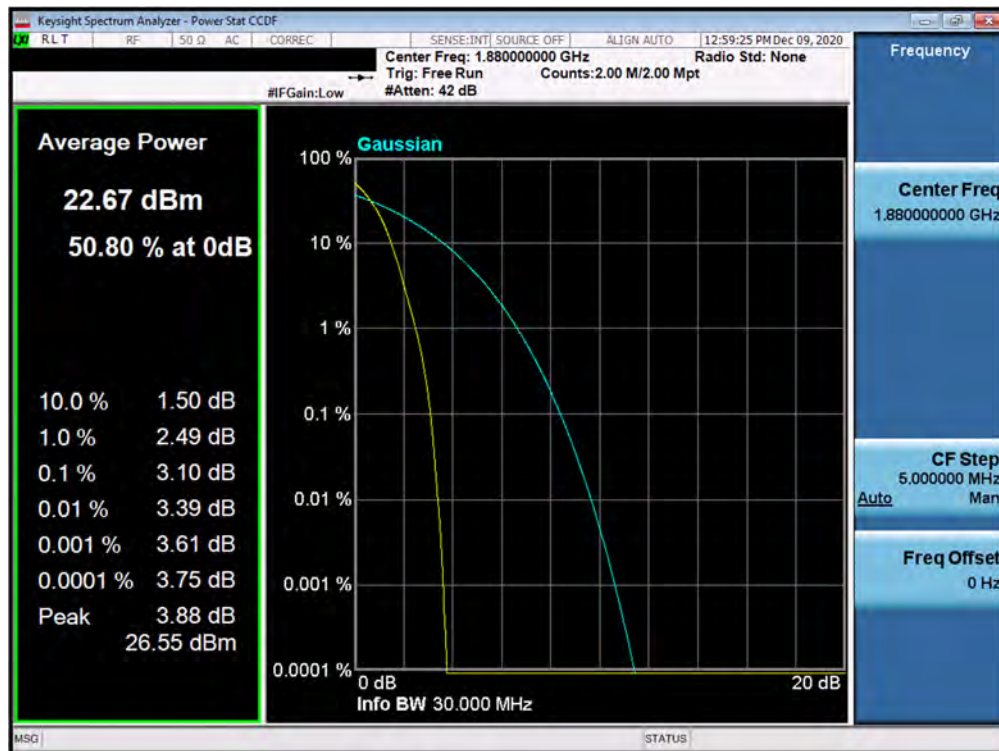


Plot 7-277. PAR Plot (NR Band n25- 40.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 175 of 241

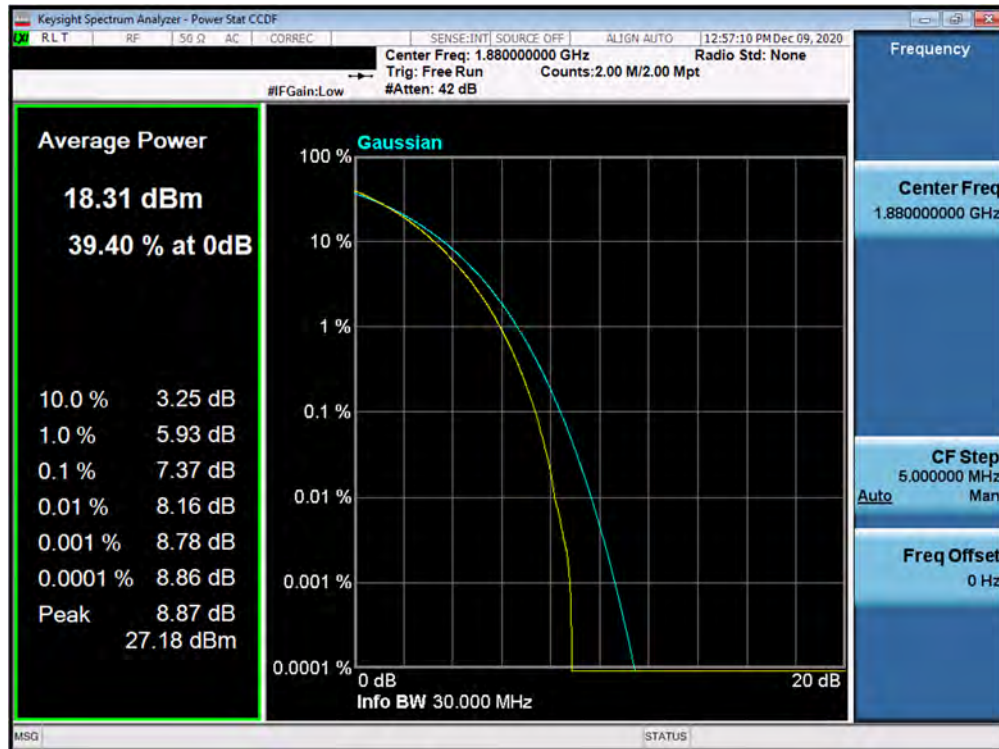


Plot 7-278. PAR Plot (NR Band n25- 40.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

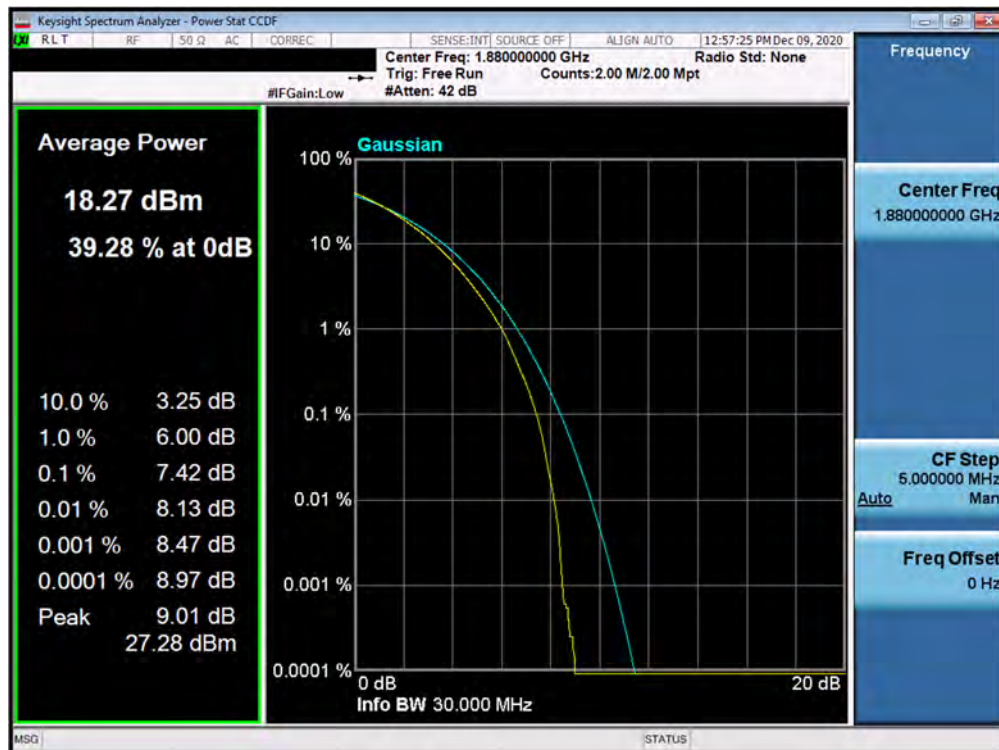


Plot 7-279. PAR Plot (NR Band n25- 30.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 176 of 241

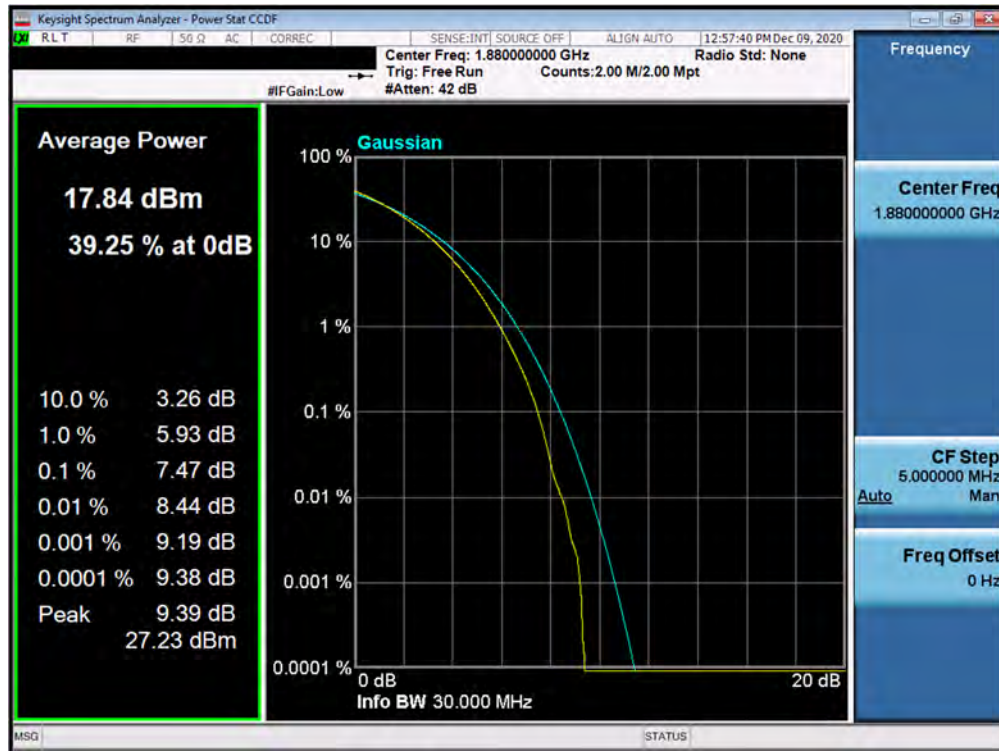


Plot 7-280. PAR Plot (NR Band n25- 30.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

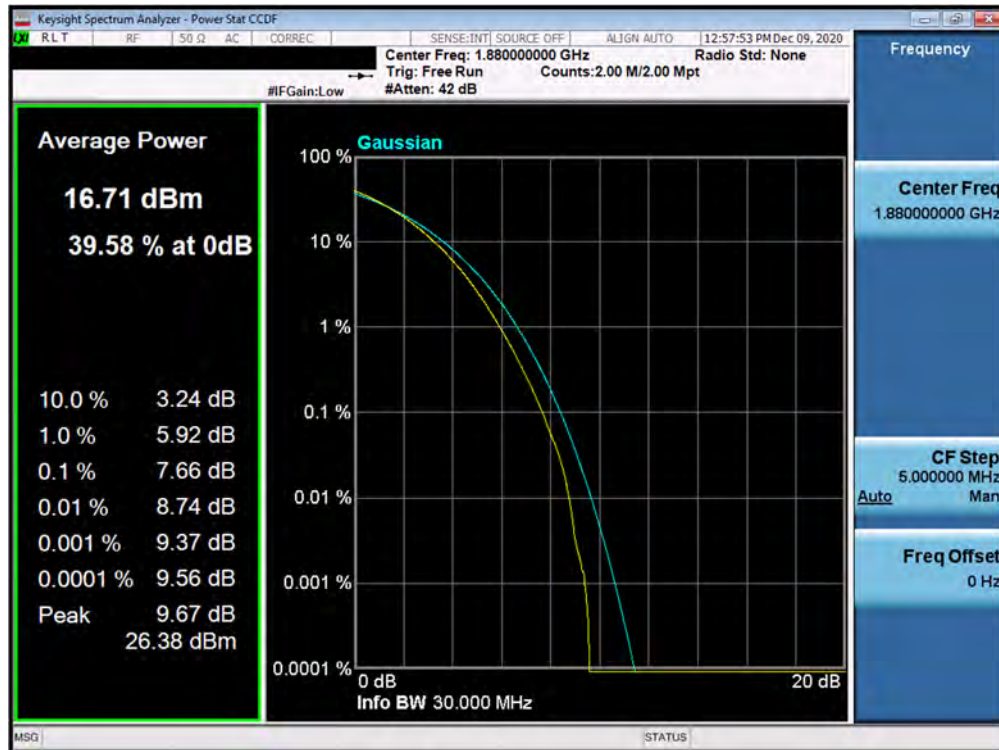


Plot 7-281. PAR Plot (NR Band n25- 30.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 177 of 241

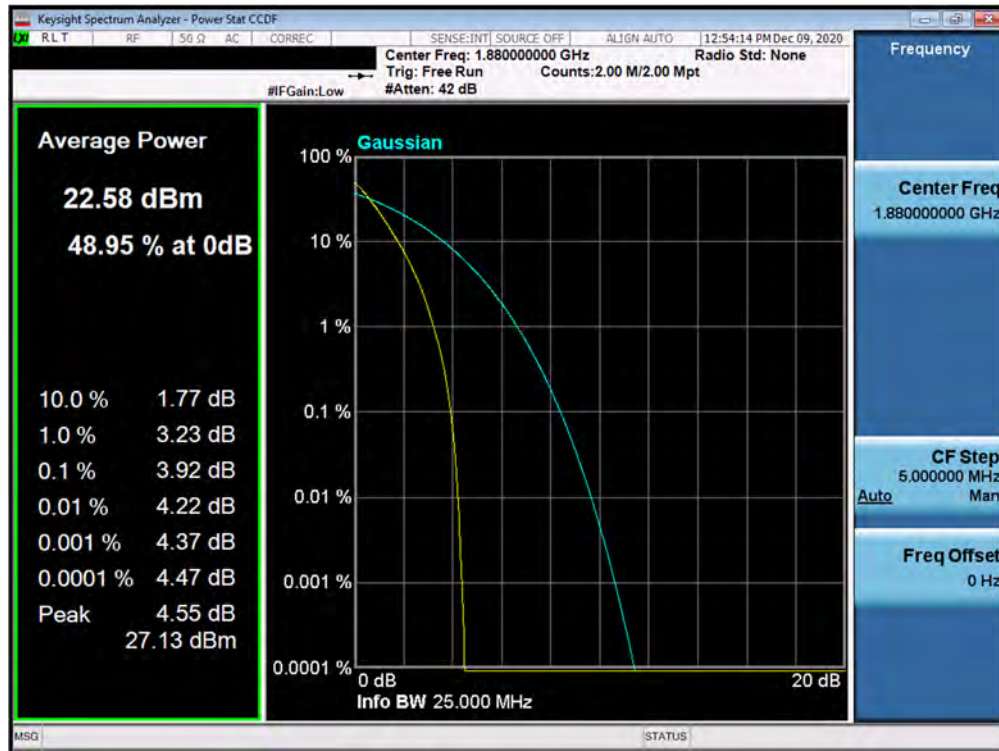


Plot 7-282. PAR Plot (NR Band n25- 30.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

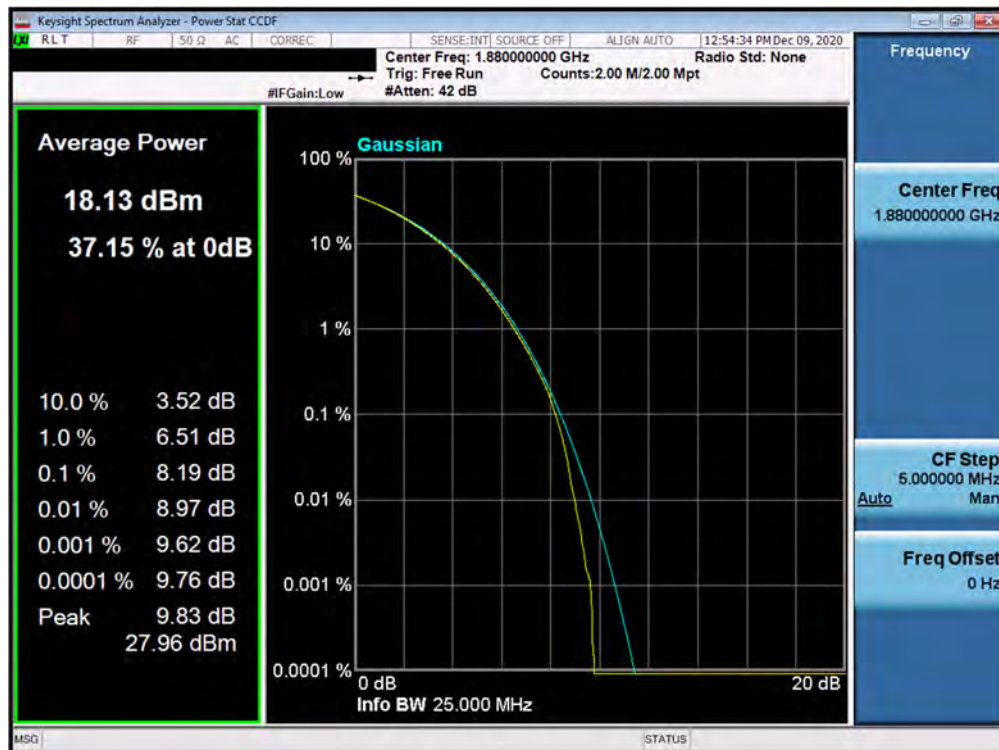


Plot 7-283. PAR Plot (NR Band n25- 30.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 178 of 241

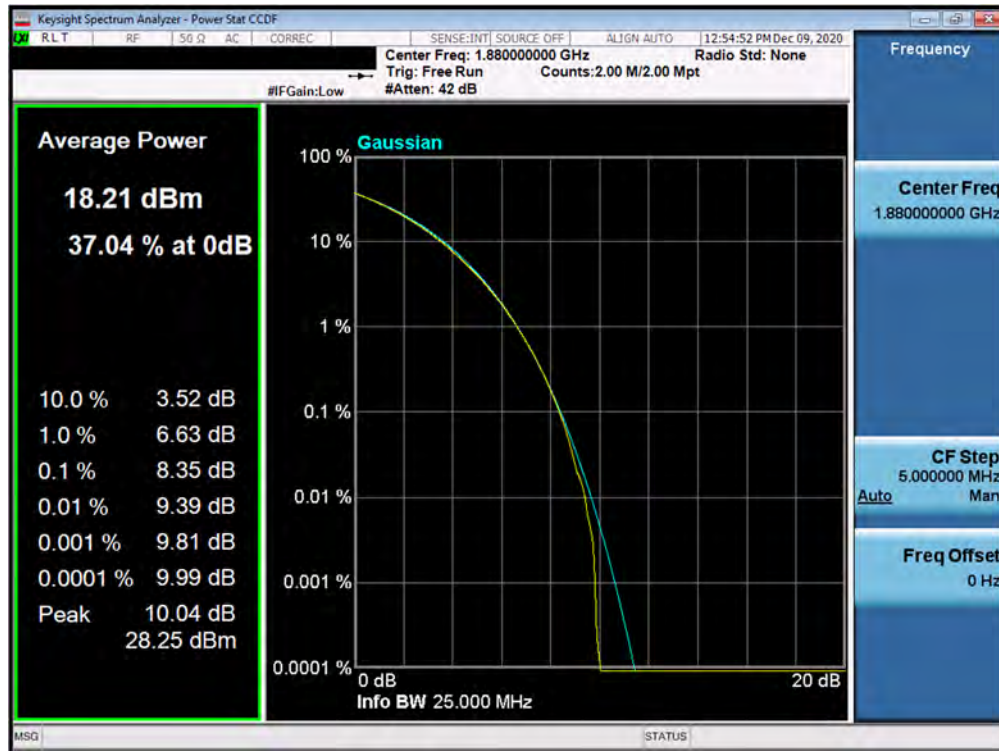


Plot 7-284. PAR Plot (NR Band n25- 25.0MHz DFT-s-OFDM BPSK - Full RB)

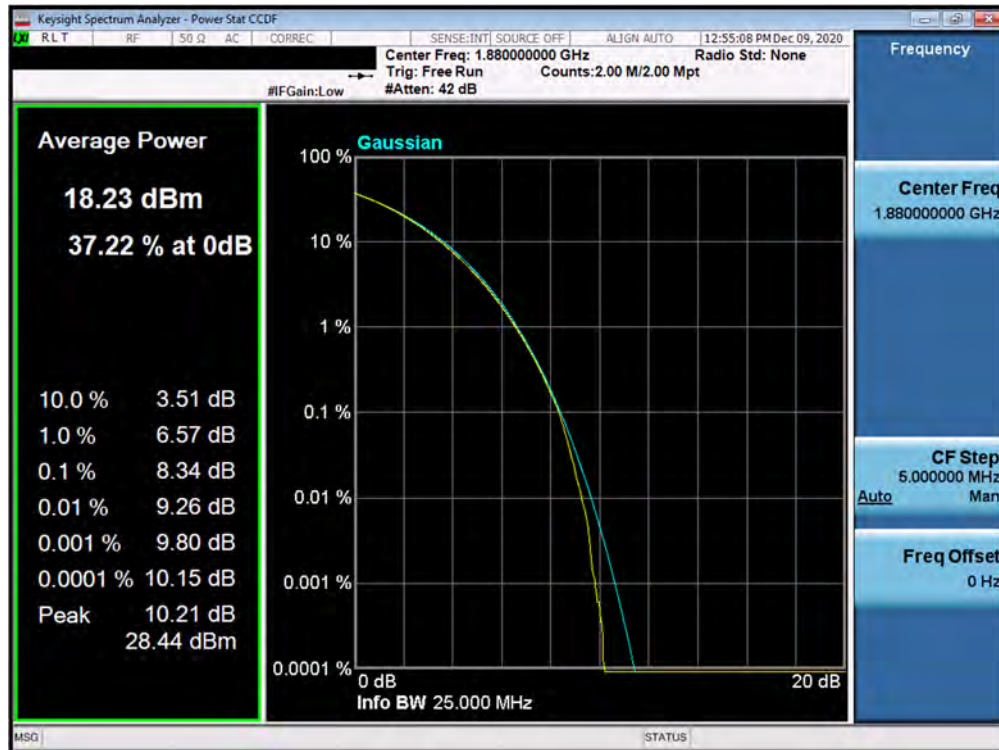


Plot 7-285. PAR Plot (NR Band n25- 25.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 179 of 241

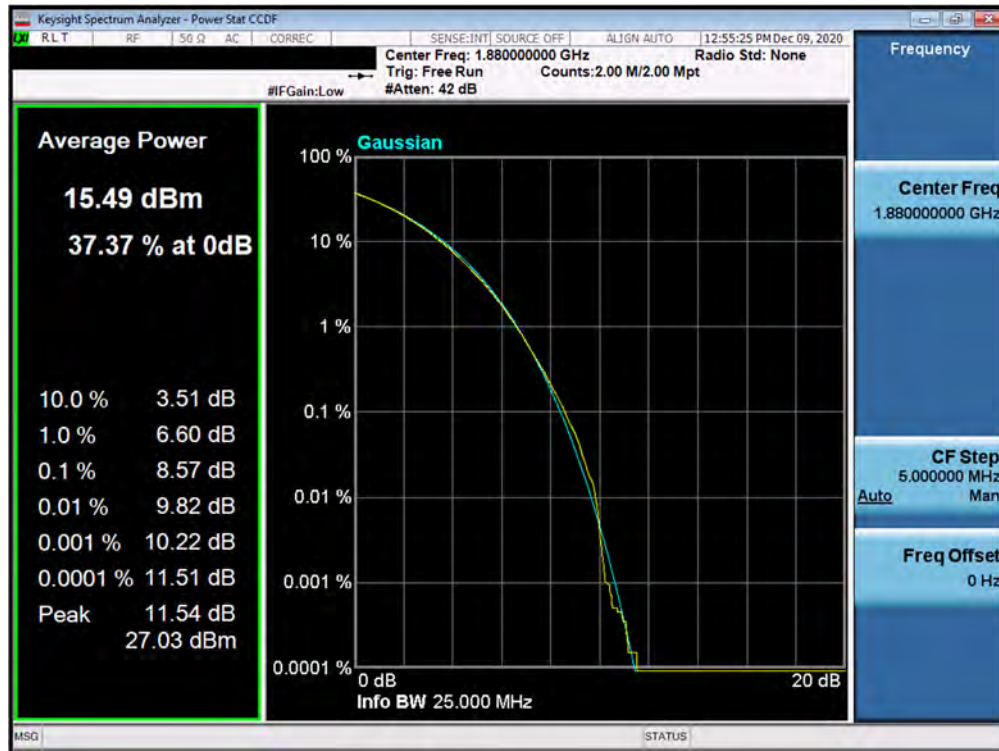


Plot 7-286. PAR Plot (NR Band n25- 25.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)



Plot 7-287. PAR Plot (NR Band n25- 25.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

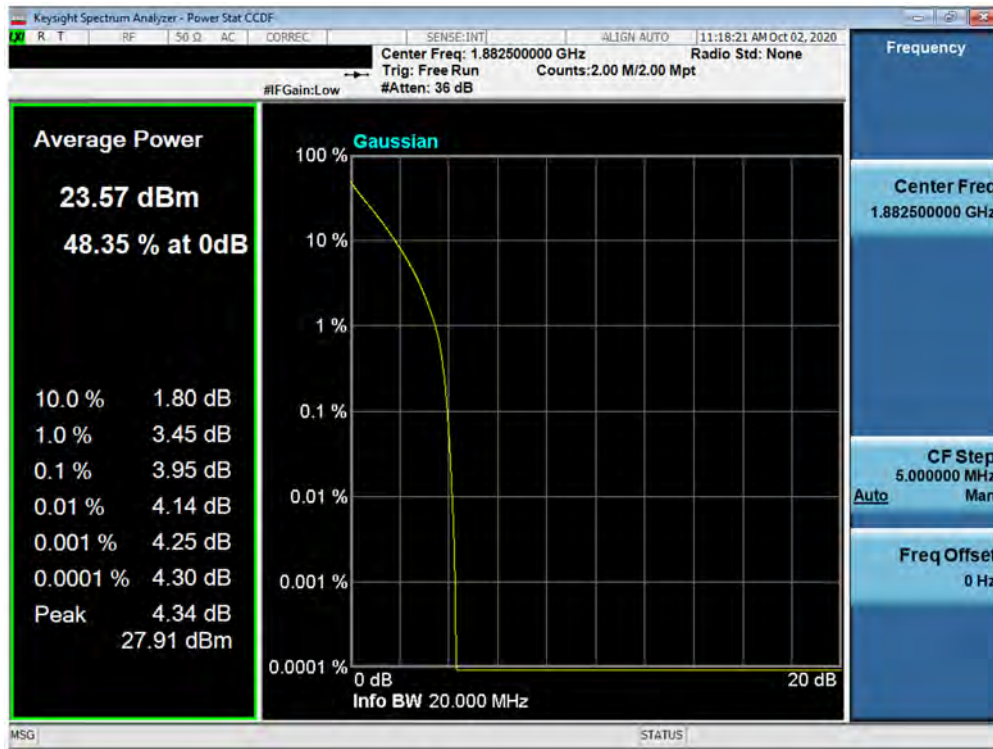
FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 180 of 241



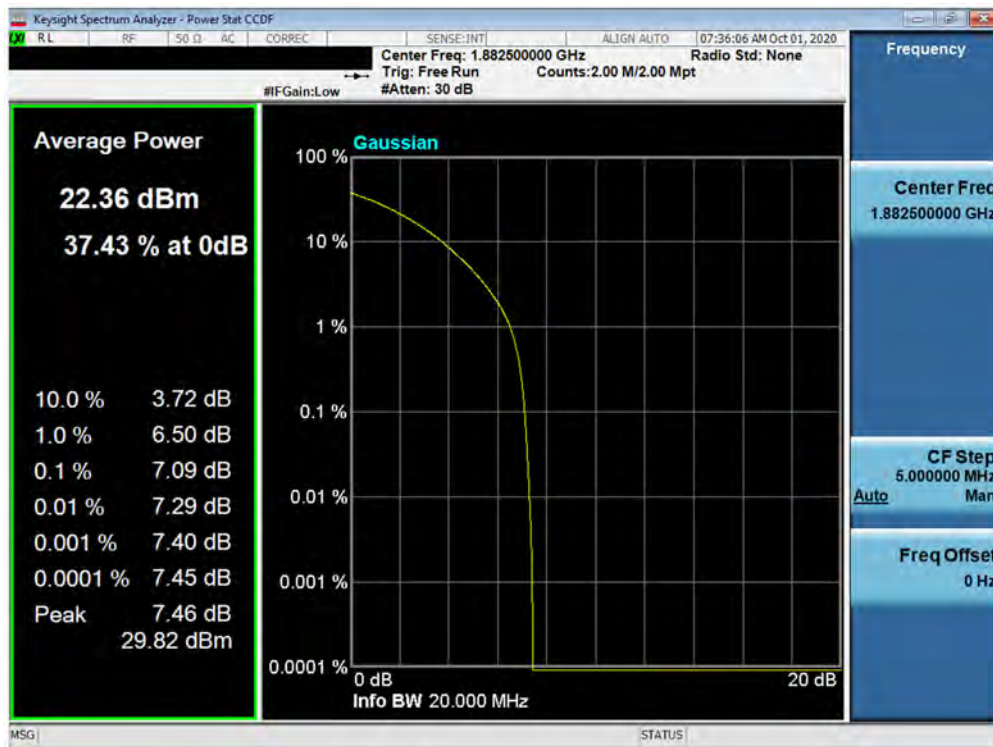
Plot 7-288. PAR Plot (NR Band n25- 25.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 181 of 241

NR Band n25/2 – ANT A

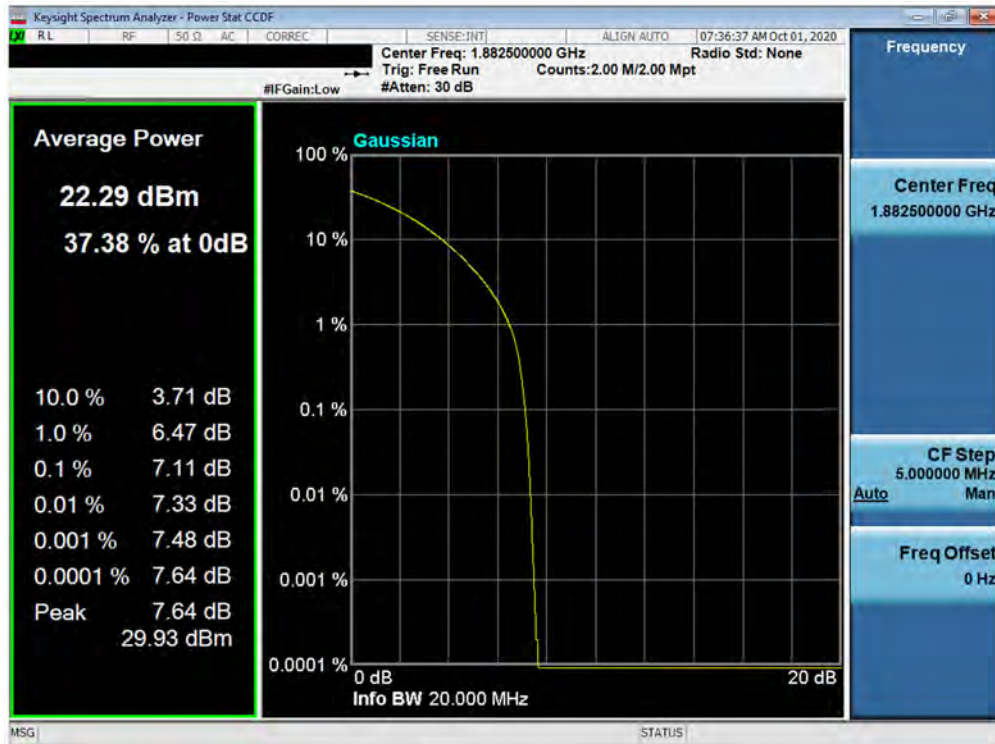


Plot 7-289. PAR Plot (NR Band n25/2- 20.0MHz DFT-s-OFDM BPSK - Full RB)

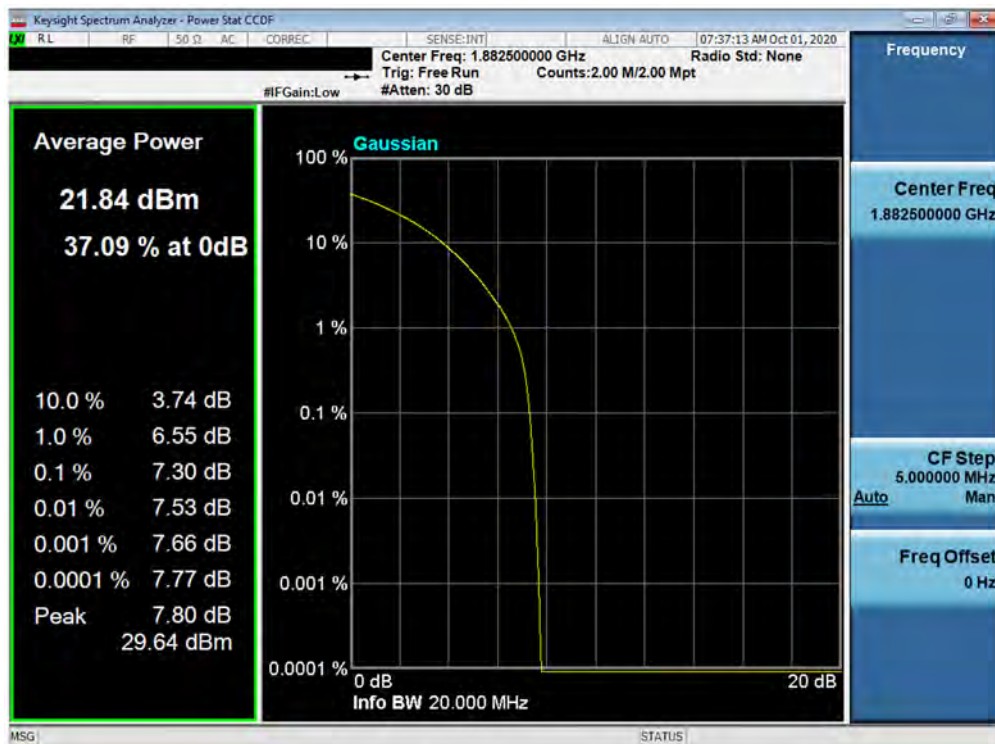


Plot 7-290. PAR Plot (NR Band n25/2- 20.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 182 of 241

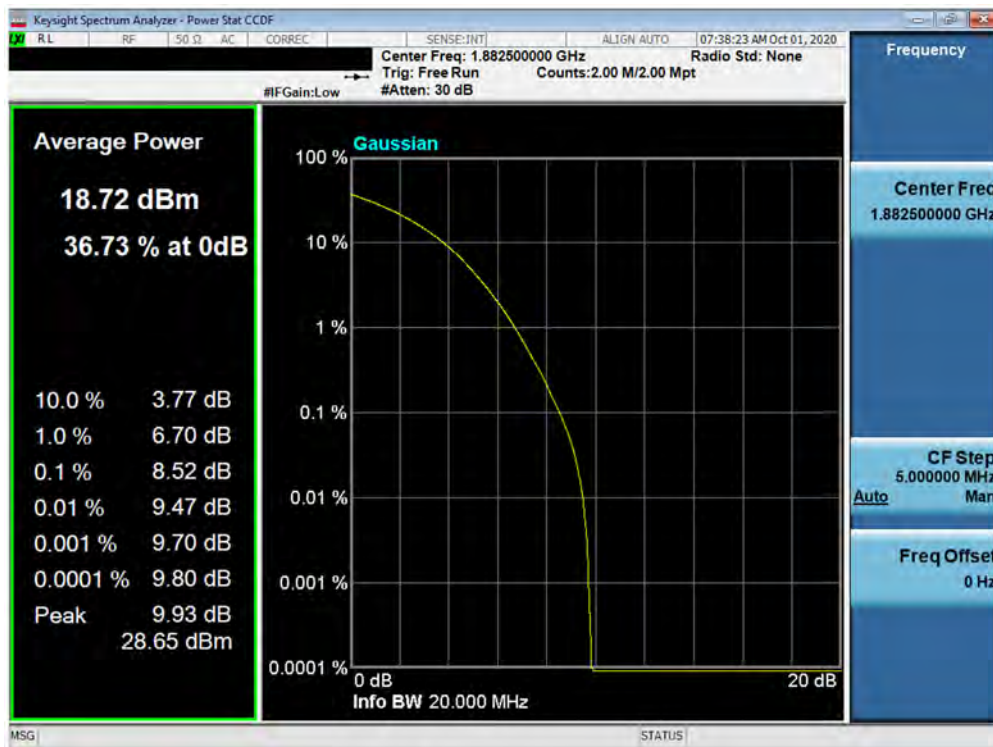


Plot 7-291. PAR Plot (NR Band n25/2- 20.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)

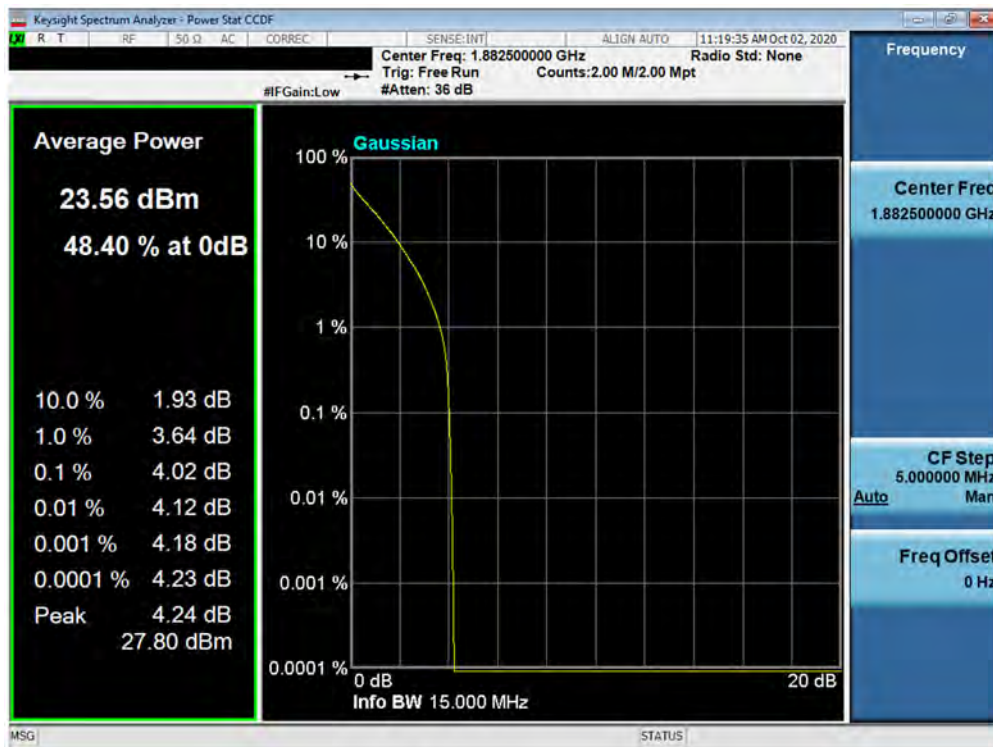


Plot 7-292. PAR Plot (NR Band n25/2- 20.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 183 of 241

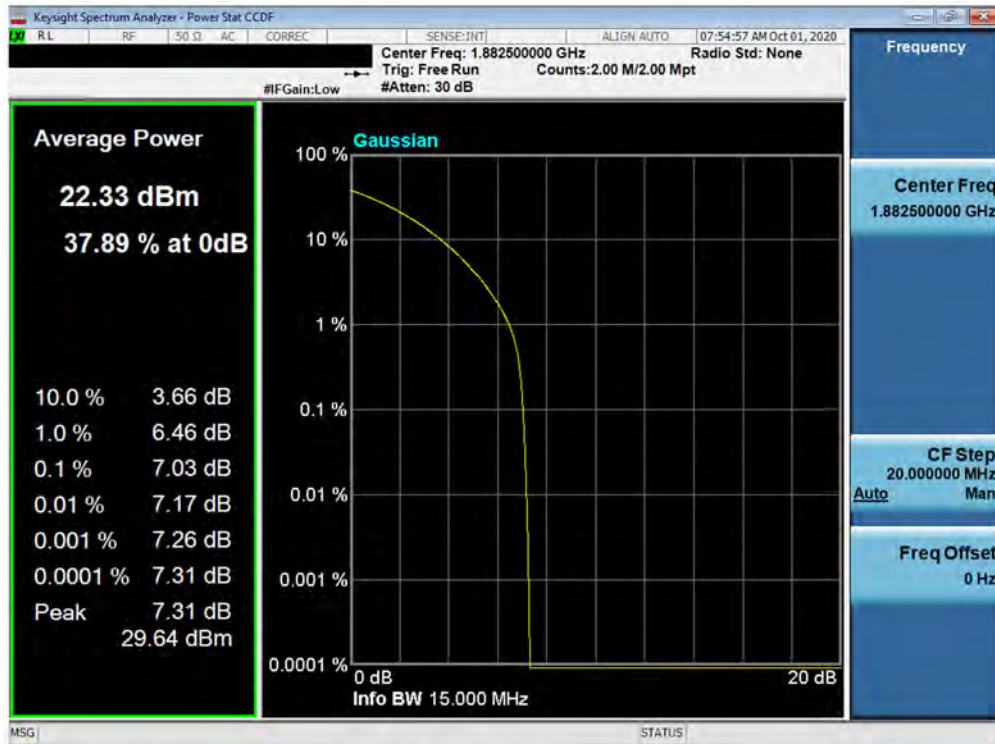


Plot 7-293. PAR Plot (NR Band n25/2- 20.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

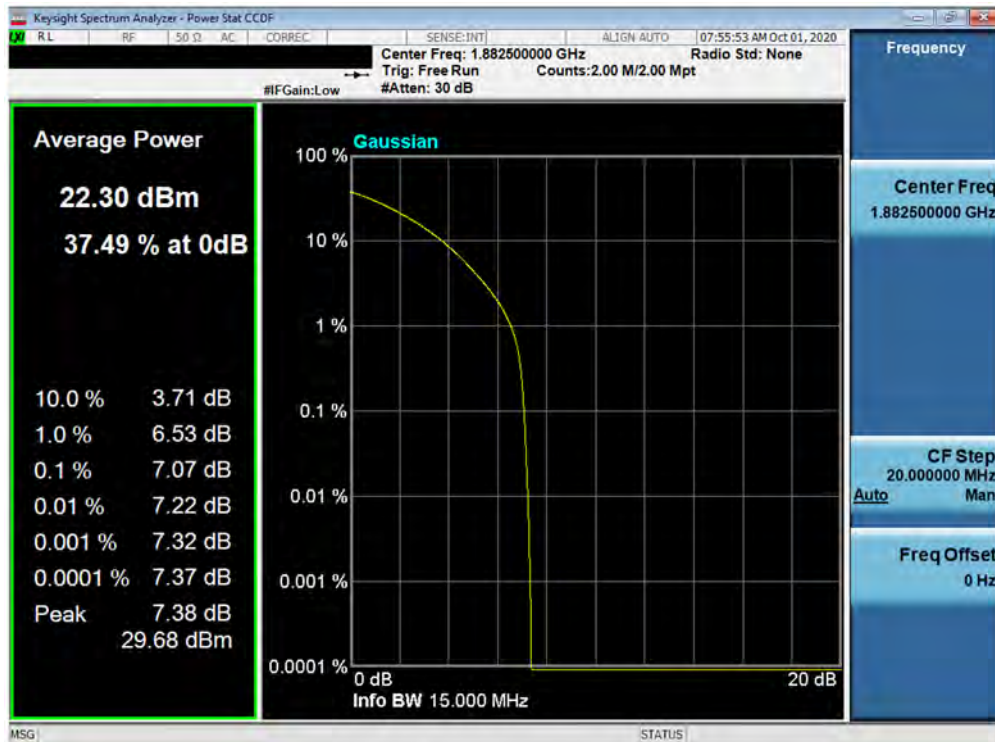


Plot 7-294. PAR Plot (NR Band n25/2- 15.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 184 of 241

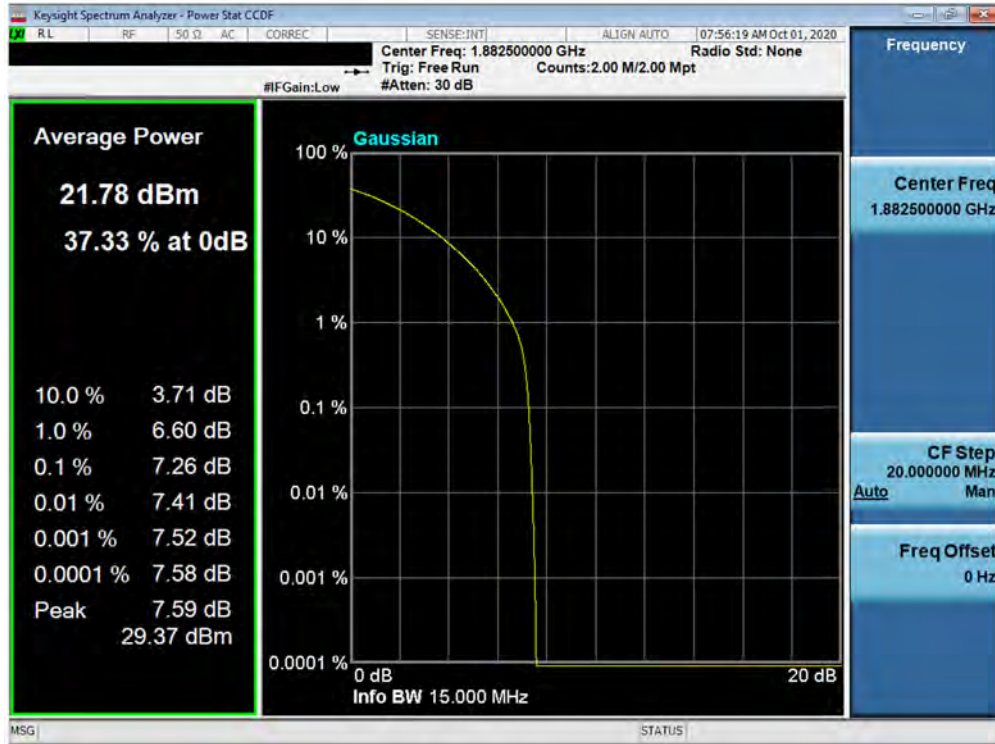


Plot 7-295. PAR Plot (NR Band n25/2- 15.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

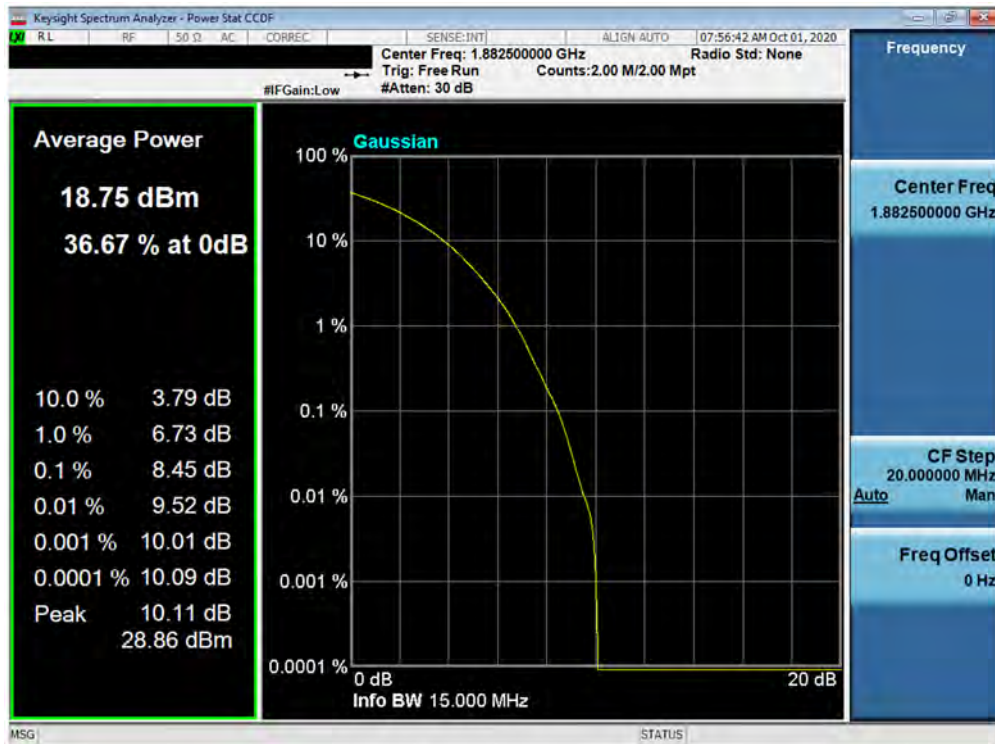


Plot 7-296. PAR Plot (NR Band n25/2- 15.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of the Samsung family	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 185 of 241

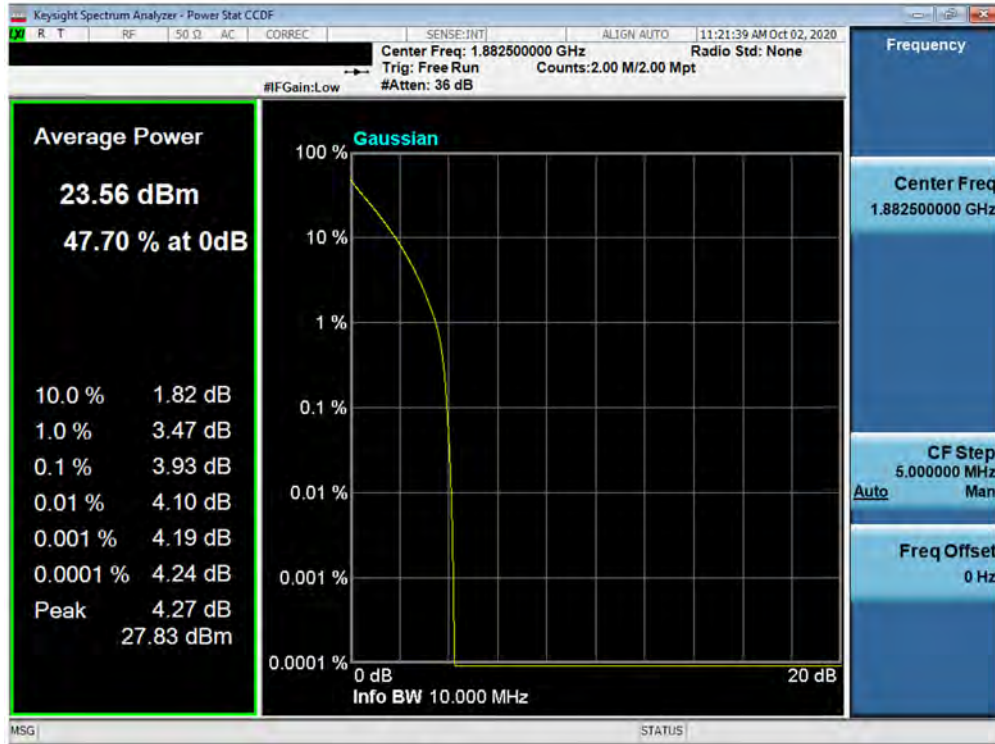


Plot 7-297. PAR Plot (NR Band n25/2- 15.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

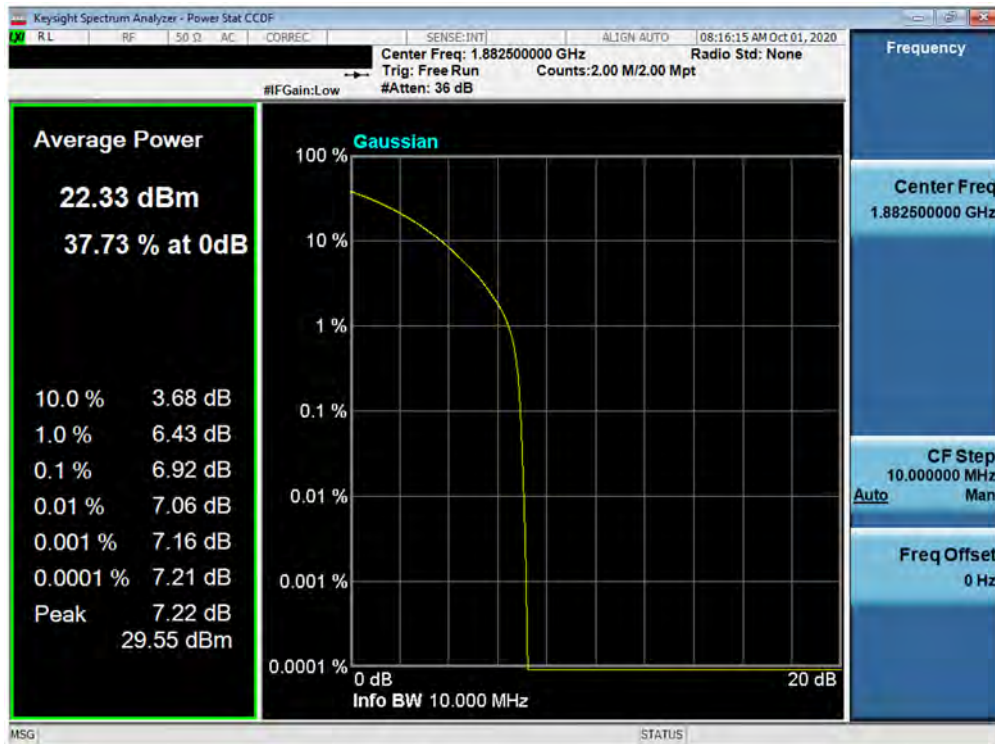


Plot 7-298. PAR Plot (NR Band n25/2- 15.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 186 of 241

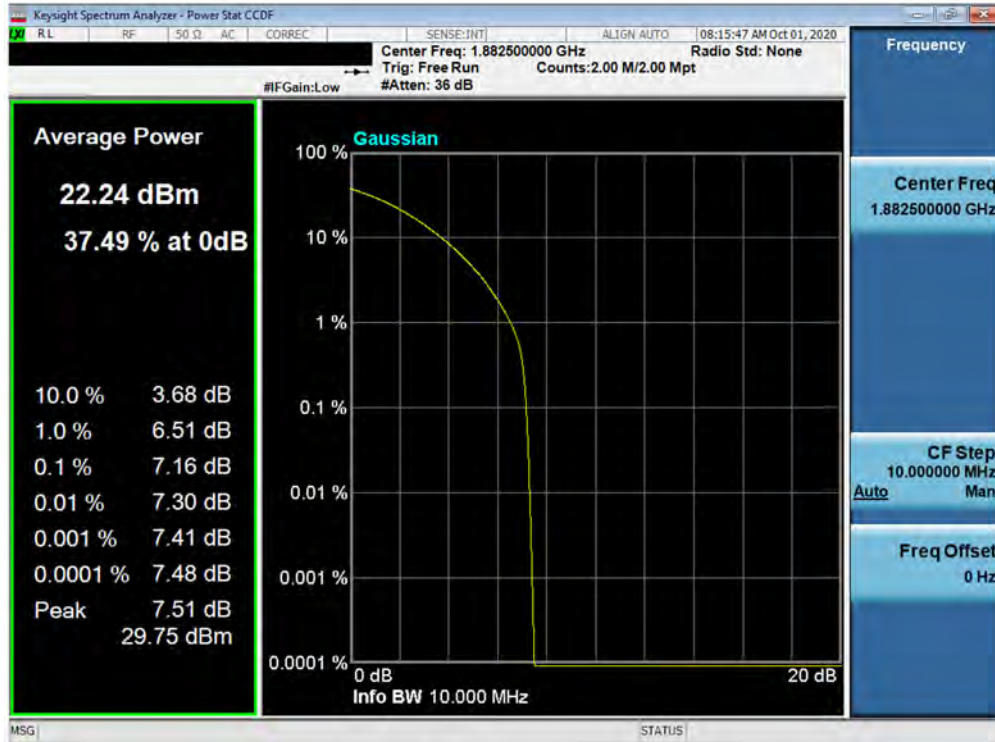


Plot 7-299. PAR Plot (NR Band n25/2- 10.0MHz DFT-s-OFDM BPSK - Full RB)

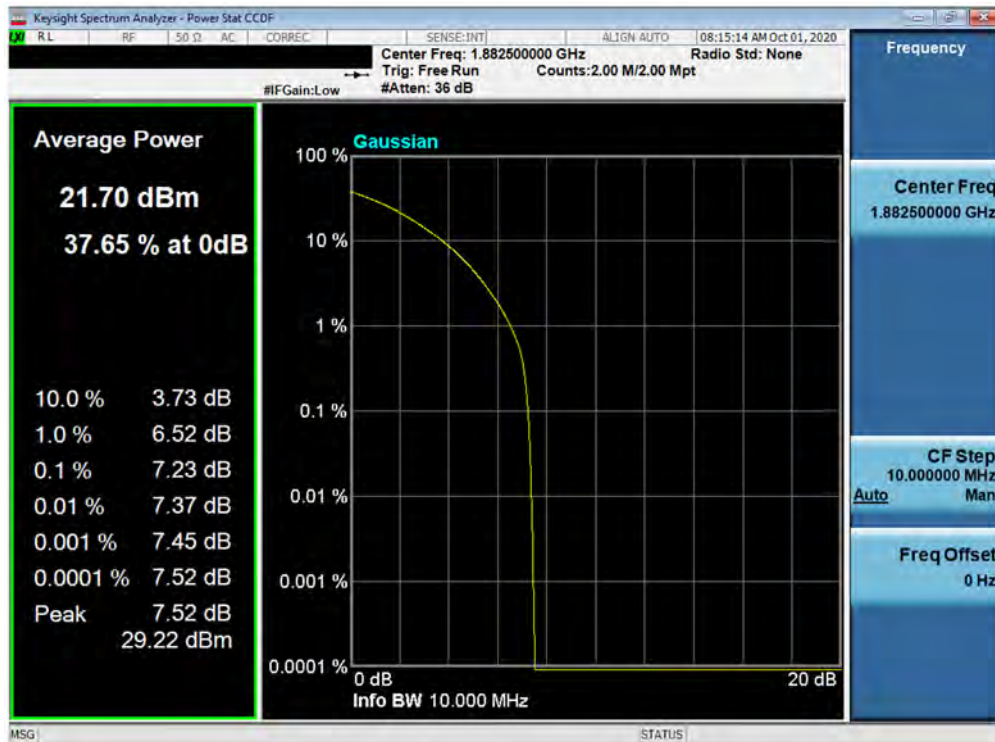


Plot 7-300. PAR Plot (NR Band n25/2- 10.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 187 of 241

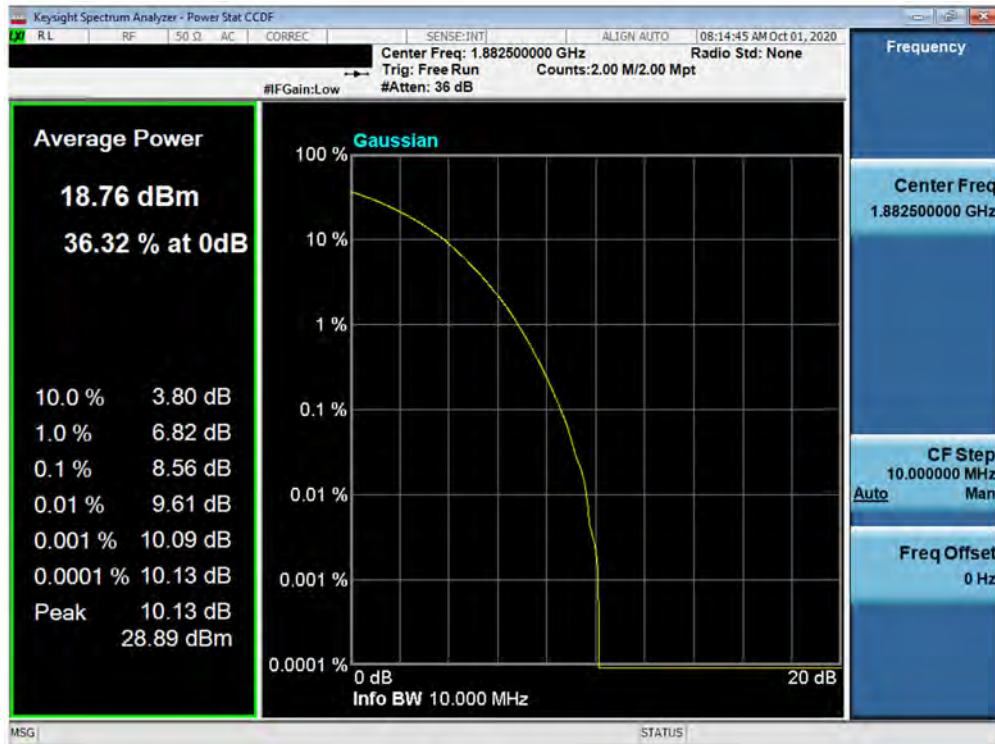


Plot 7-301. PAR Plot (NR Band n25/2- 10.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)

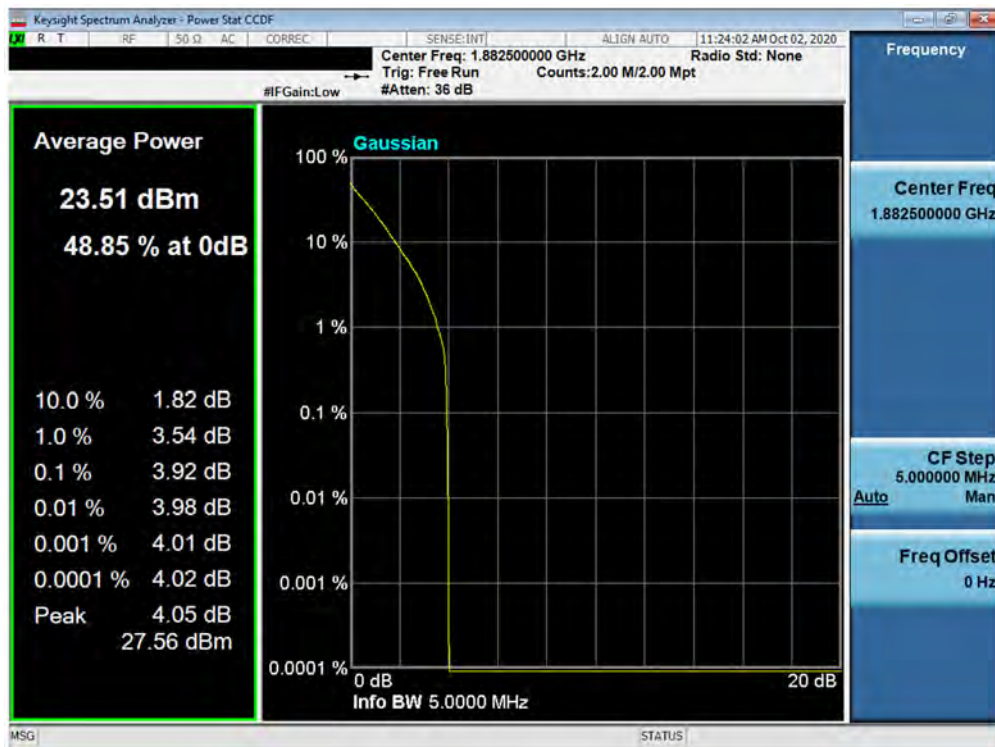


Plot 7-302. PAR Plot (NR Band n25/2- 10.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 188 of 241

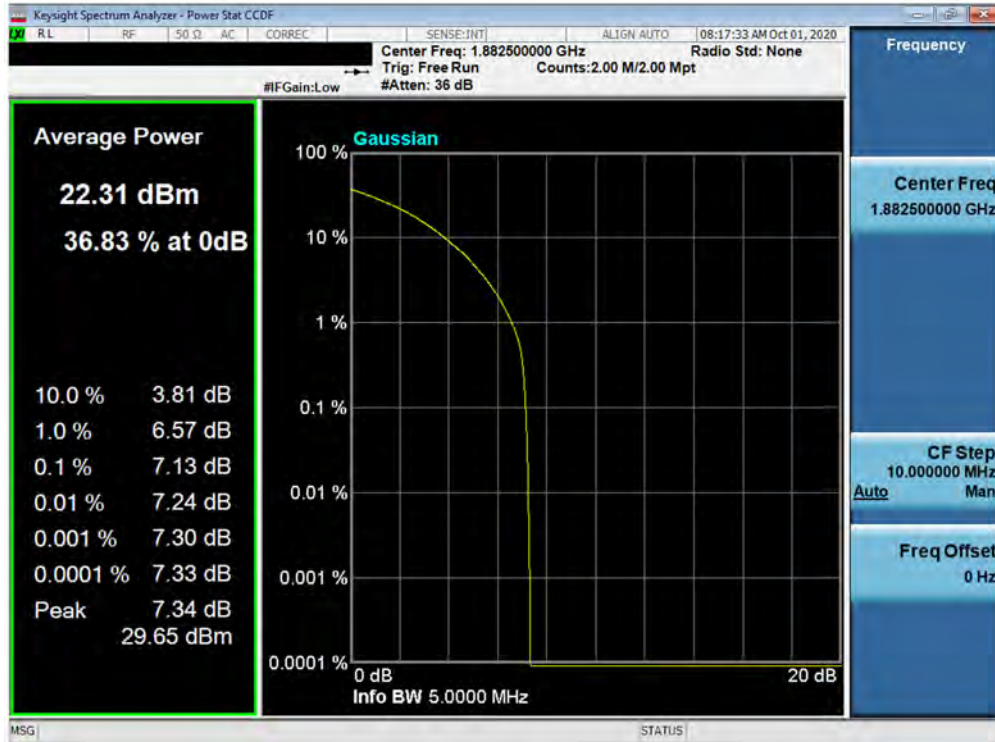


Plot 7-303. PAR Plot (NR Band n25/2- 10.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

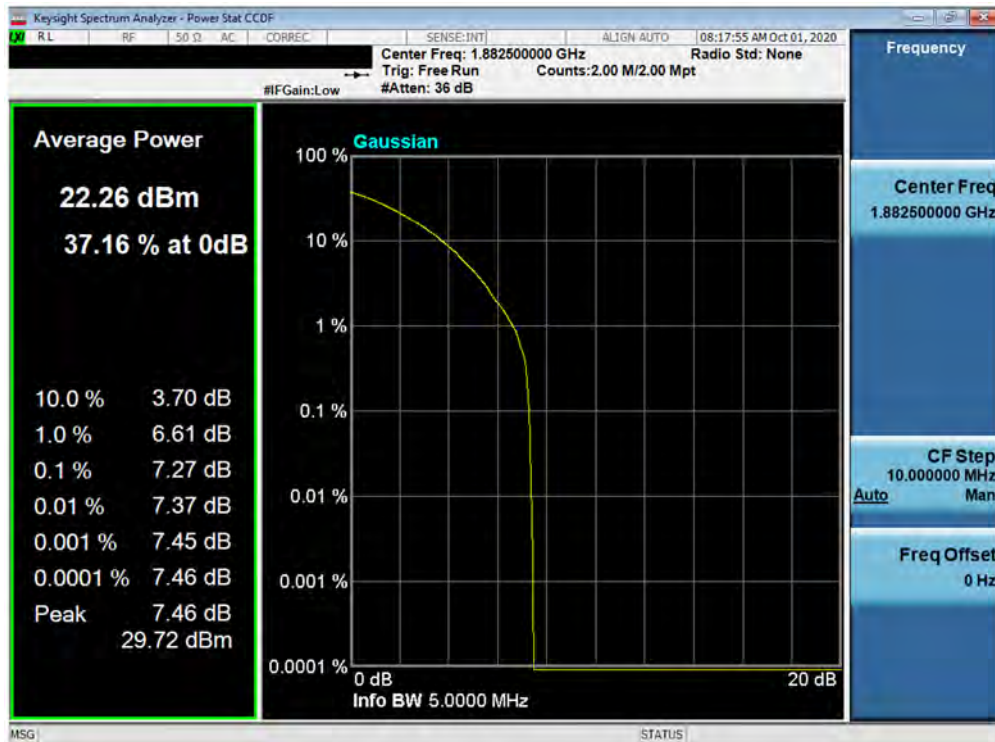


Plot 7-304. PAR Plot (NR Band n25/2- 5.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 189 of 241

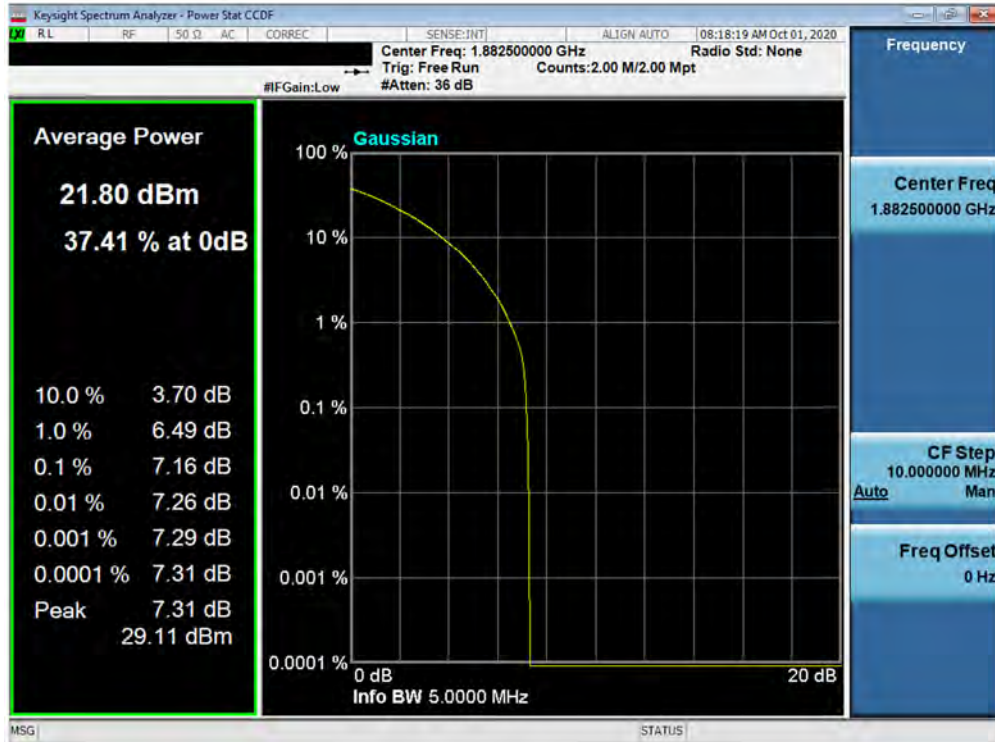


Plot 7-305. PAR Plot (NR Band n25/2- 5.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

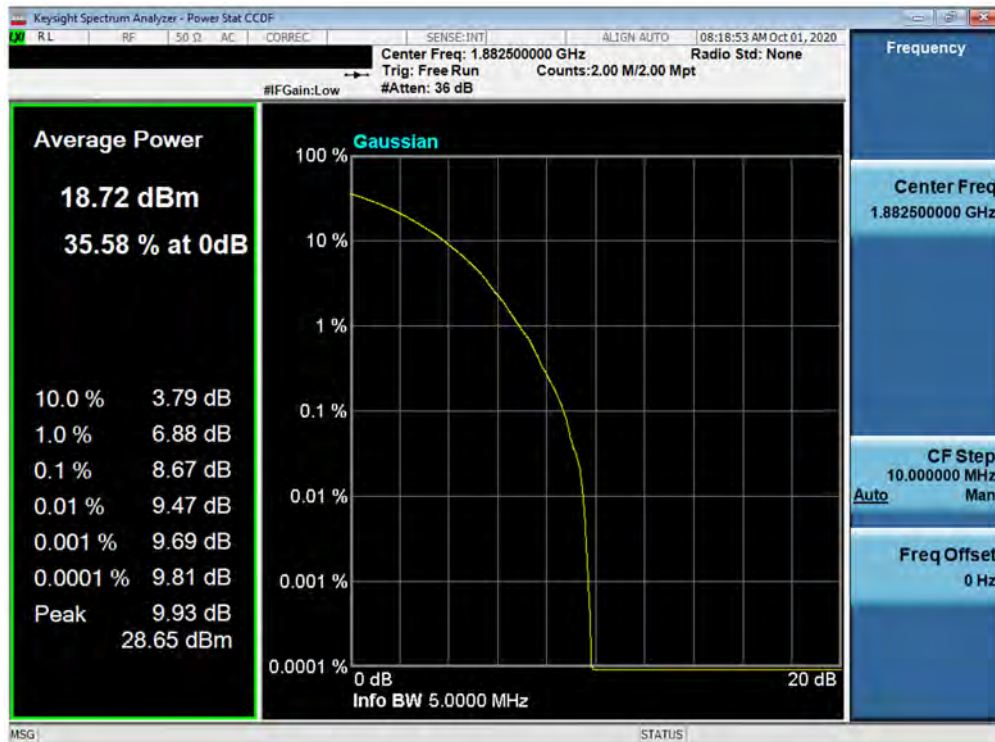


Plot 7-306. PAR Plot (NR Band n25/2- 5.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 190 of 241



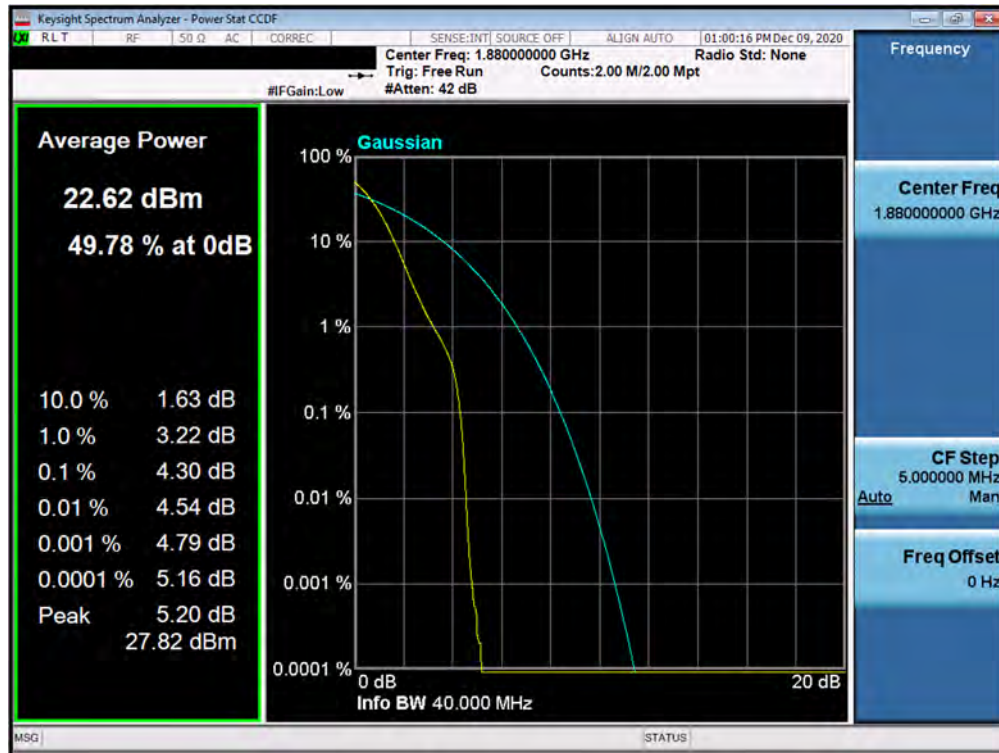
Plot 7-307. PAR Plot (NR Band n25/2- 5.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)



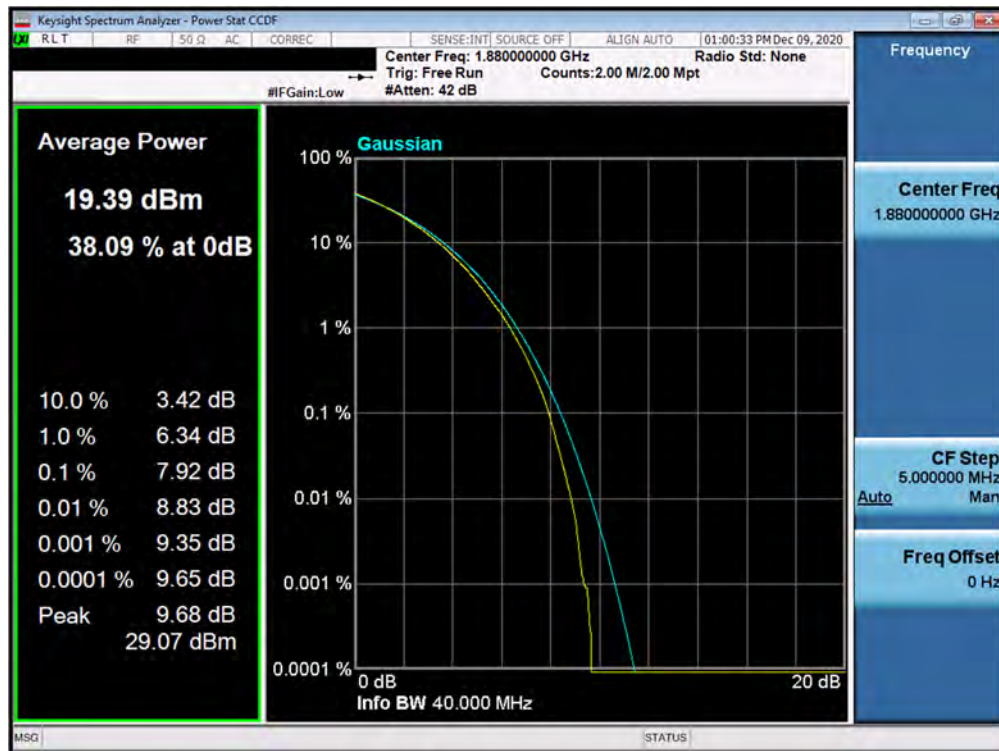
Plot 7-308. PAR Plot (NR Band n25/2- 5.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 191 of 241

NR Band n25 – ANT E

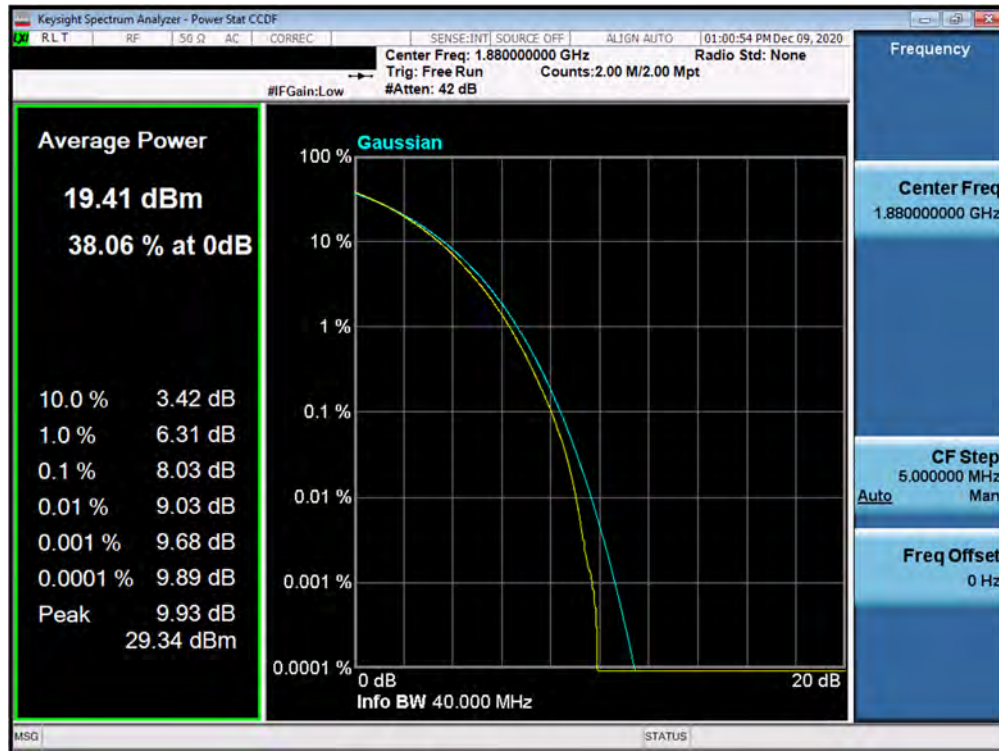


Plot 7-309. PAR Plot (NR Band n25- 40.0MHz DFT-s-OFDM BPSK - Full RB)

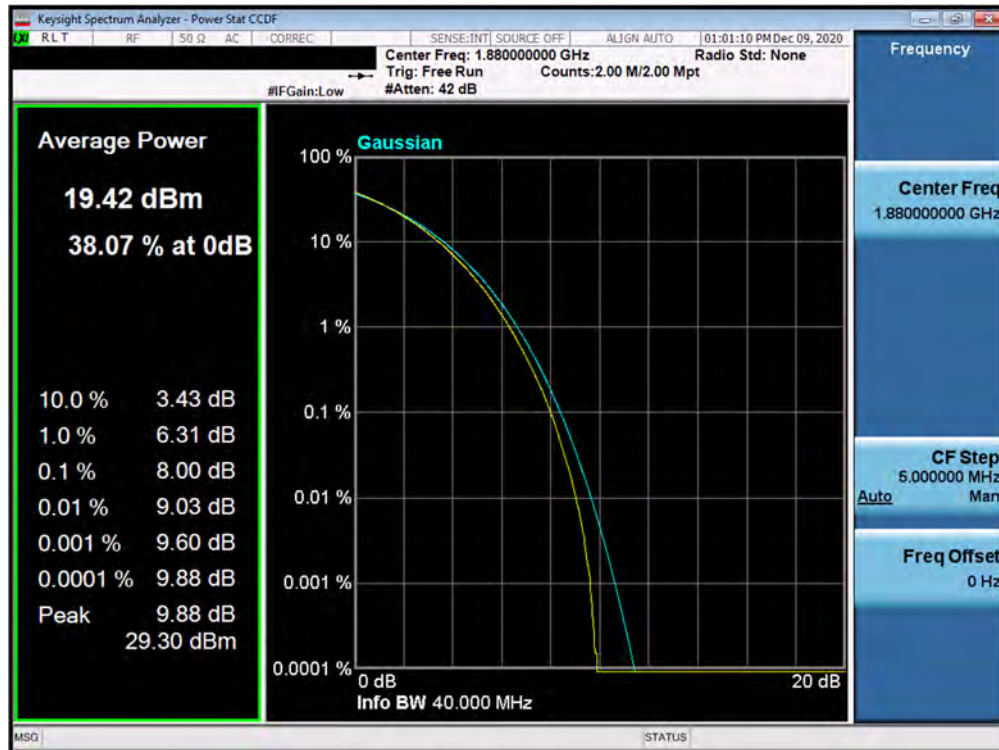


Plot 7-310. PAR Plot (NR Band n25- 40.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 192 of 241

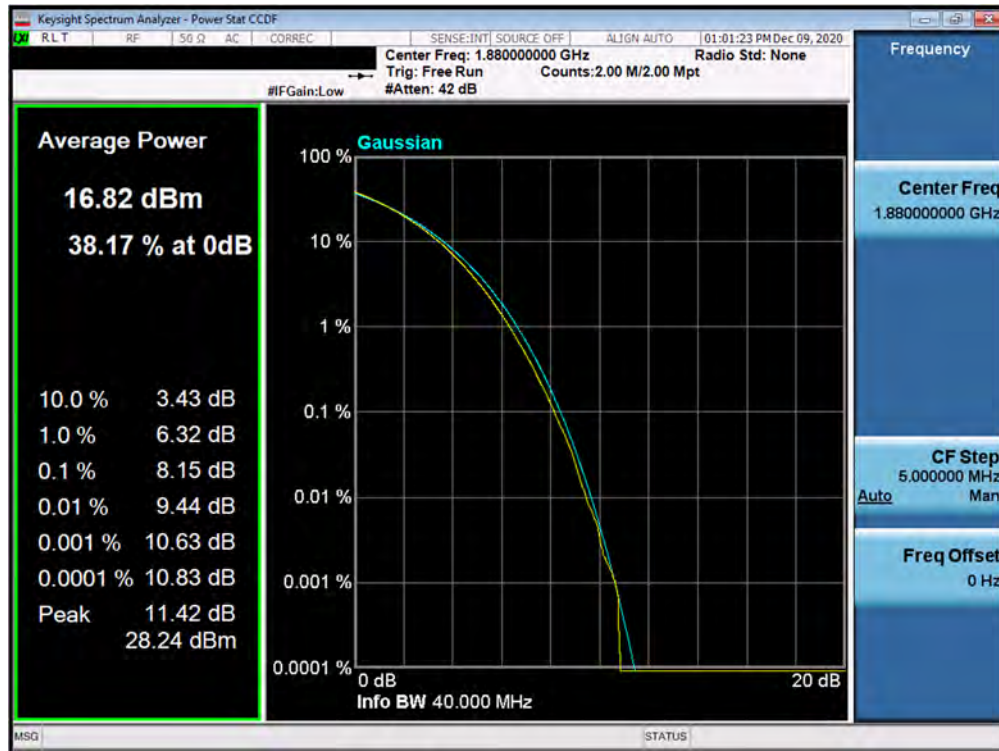


Plot 7-311. PAR Plot (NR Band n25- 40.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)

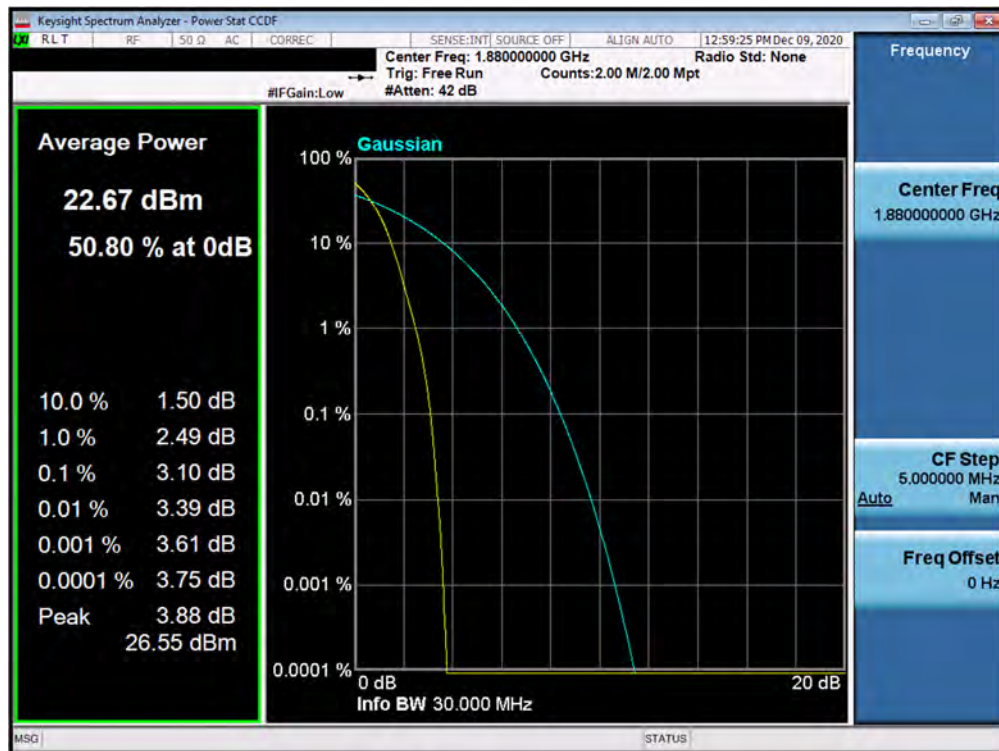


Plot 7-312. PAR Plot (NR Band n25- 40.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 193 of 241

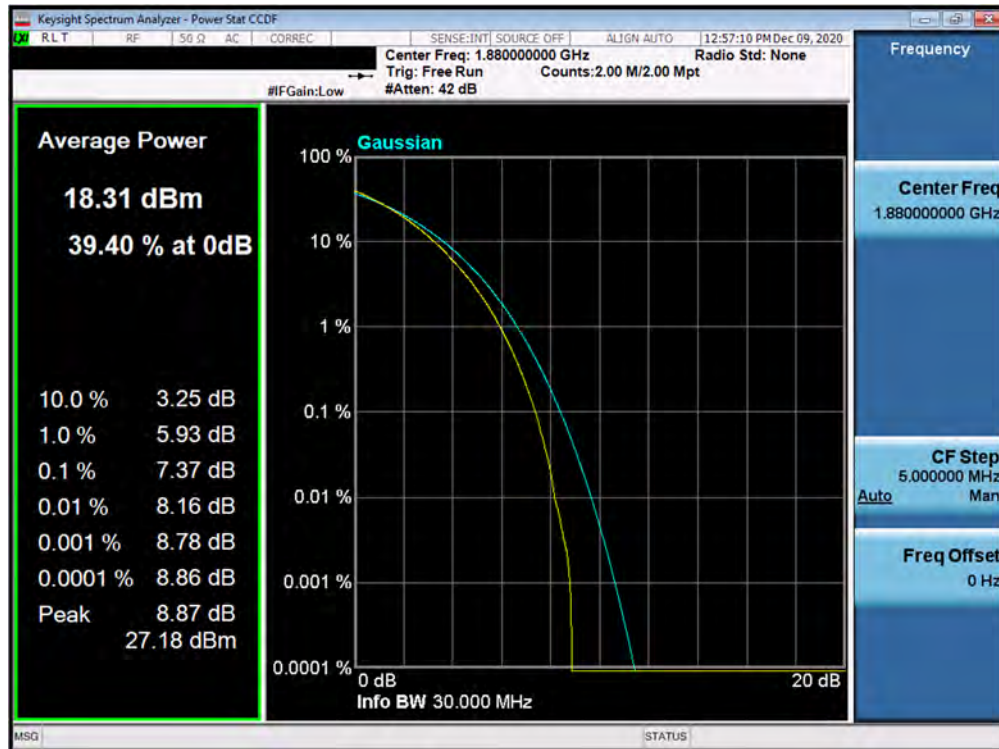


Plot 7-313. PAR Plot (NR Band n25- 40.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

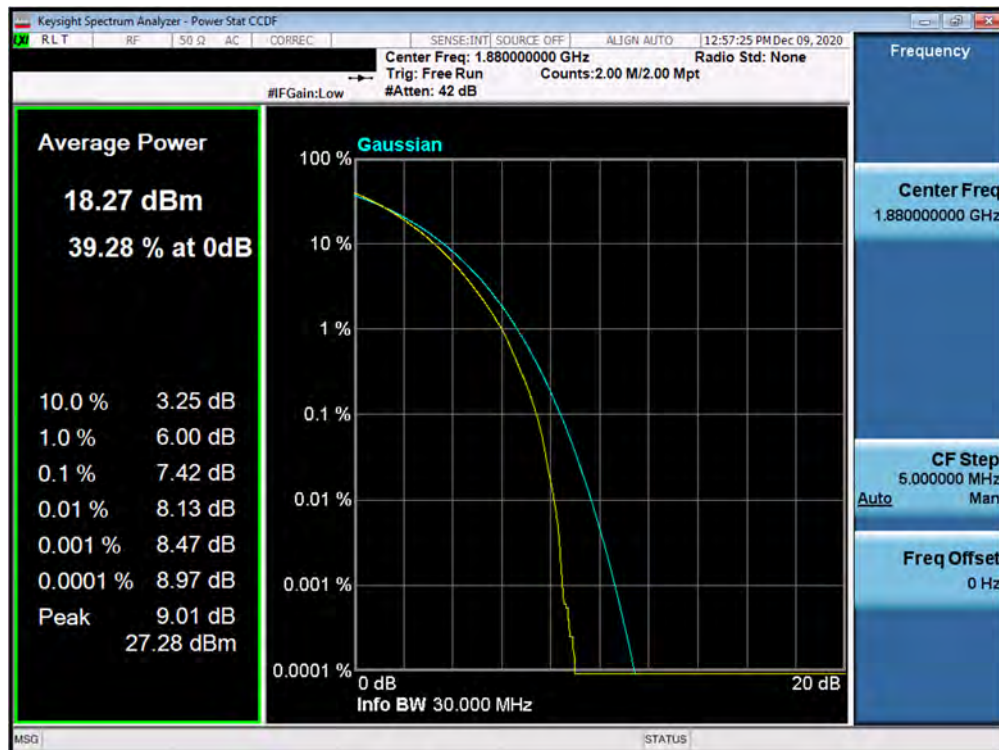


Plot 7-314. PAR Plot (NR Band n25- 30.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 194 of 241

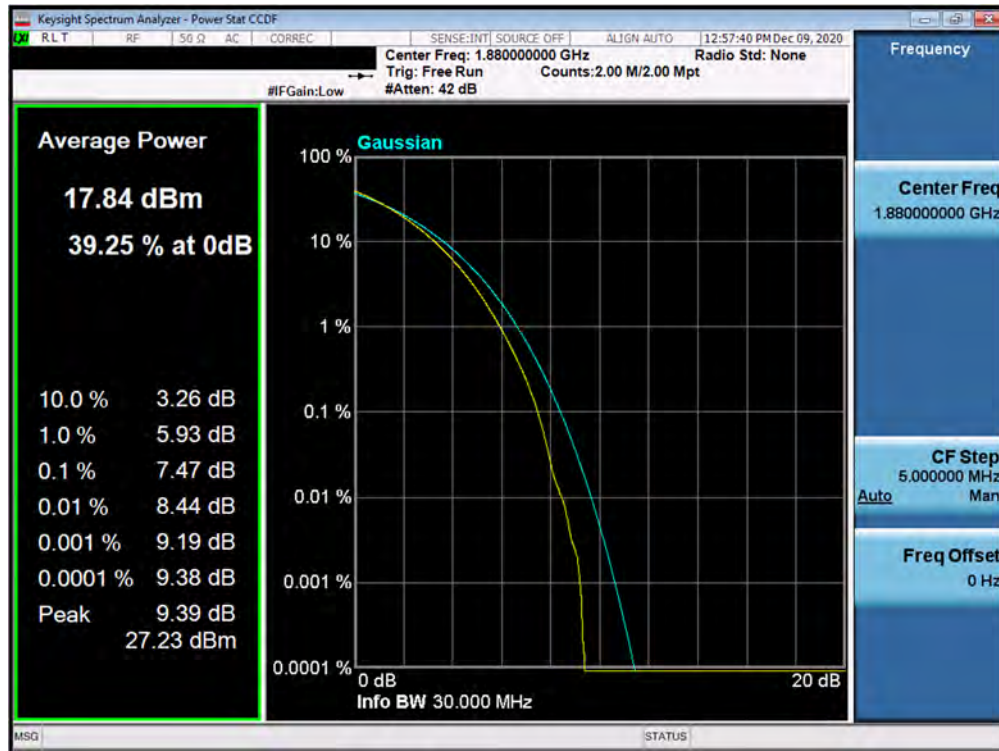


Plot 7-315. PAR Plot (NR Band n25- 30.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

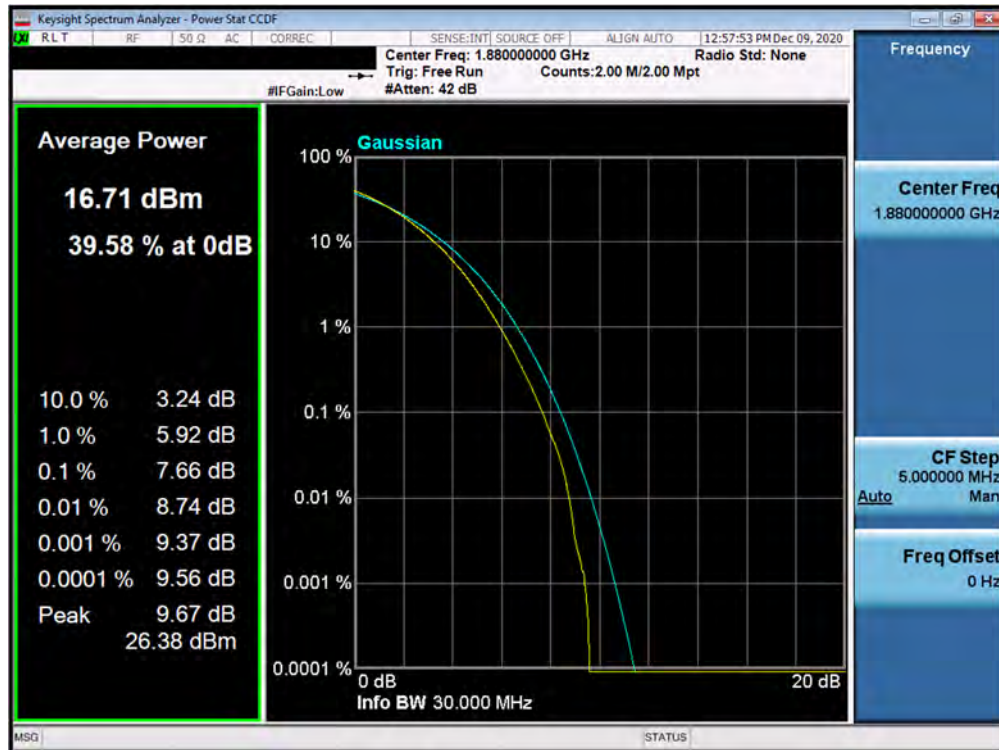


Plot 7-316. PAR Plot (NR Band n25- 30.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 195 of 241

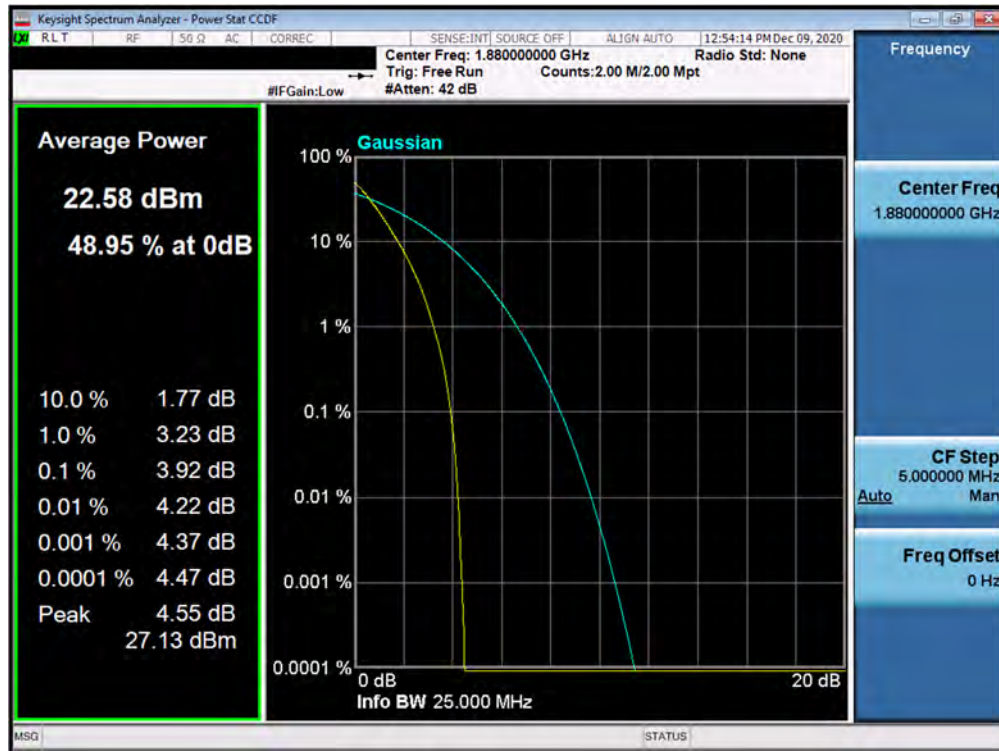


Plot 7-317. PAR Plot (NR Band n25- 30.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

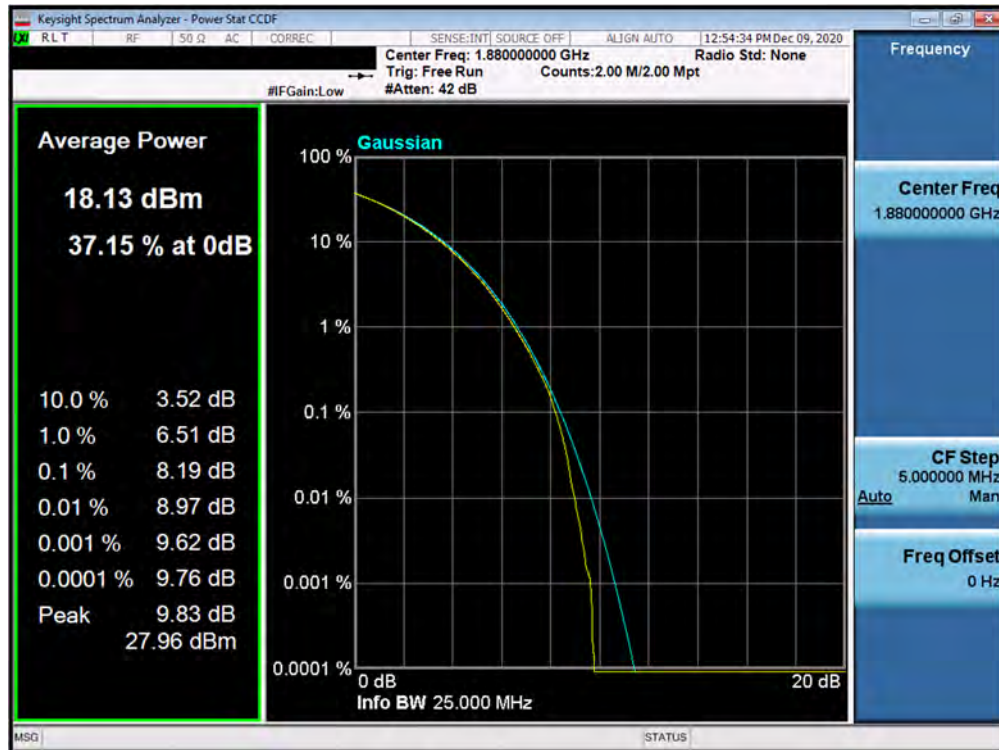


Plot 7-318. PAR Plot (NR Band n25- 30.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 196 of 241

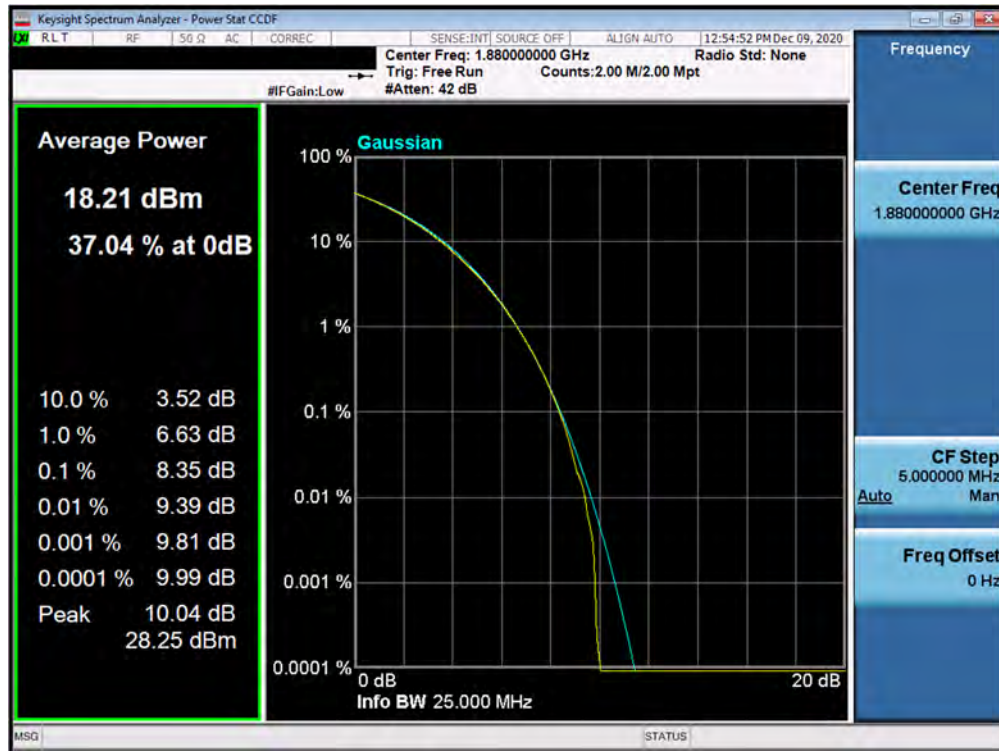


Plot 7-319. PAR Plot (NR Band n25- 25.0MHz DFT-s-OFDM BPSK - Full RB)

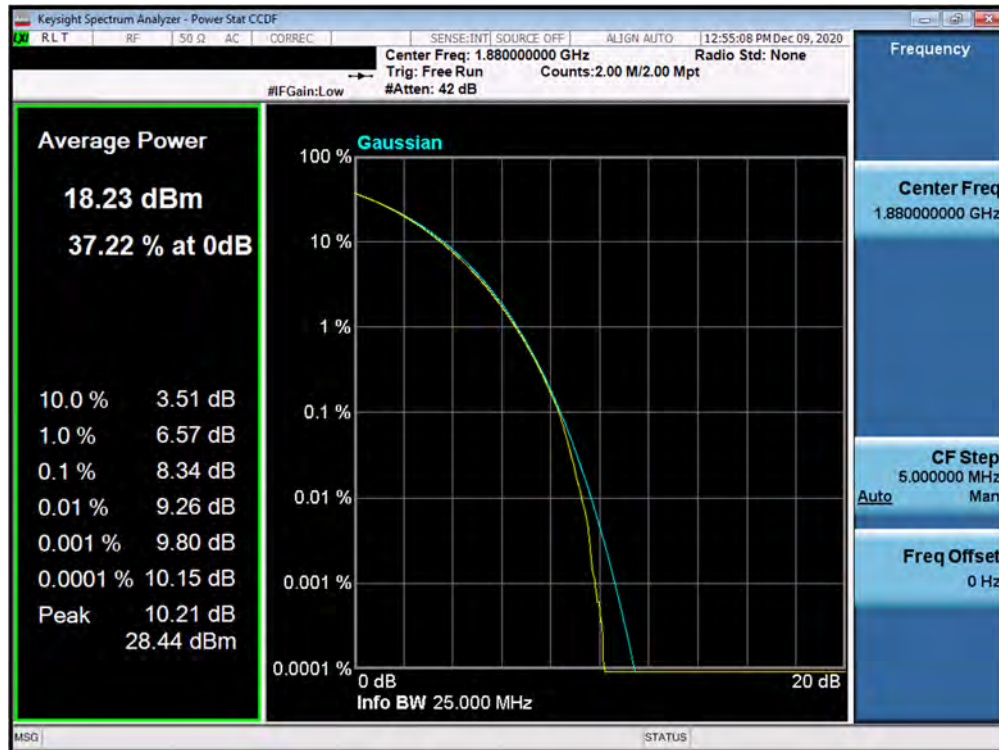


Plot 7-320. PAR Plot (NR Band n25- 25.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 197 of 241

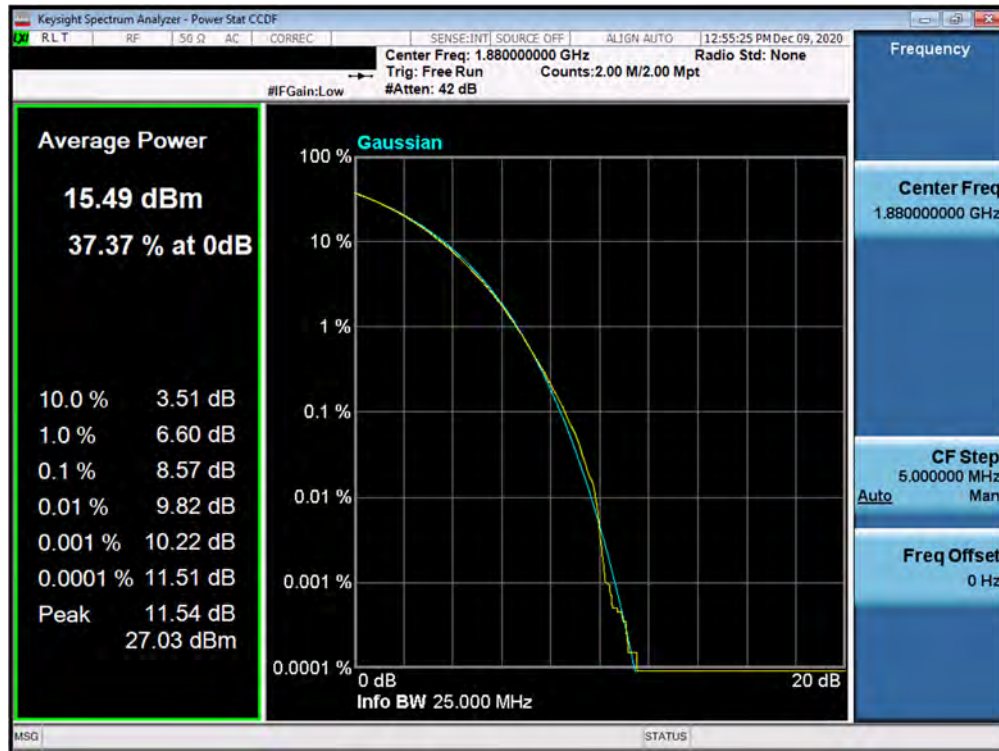


Plot 7-321. PAR Plot (NR Band n25- 25.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)



Plot 7-322. PAR Plot (NR Band n25- 25.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

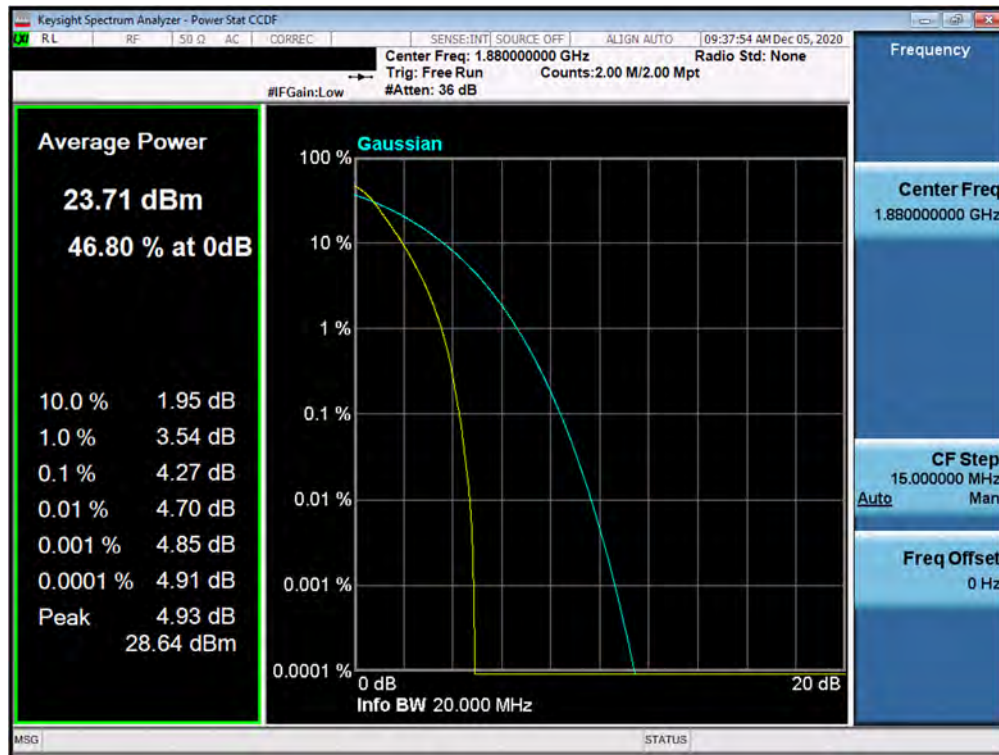
FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 198 of 241



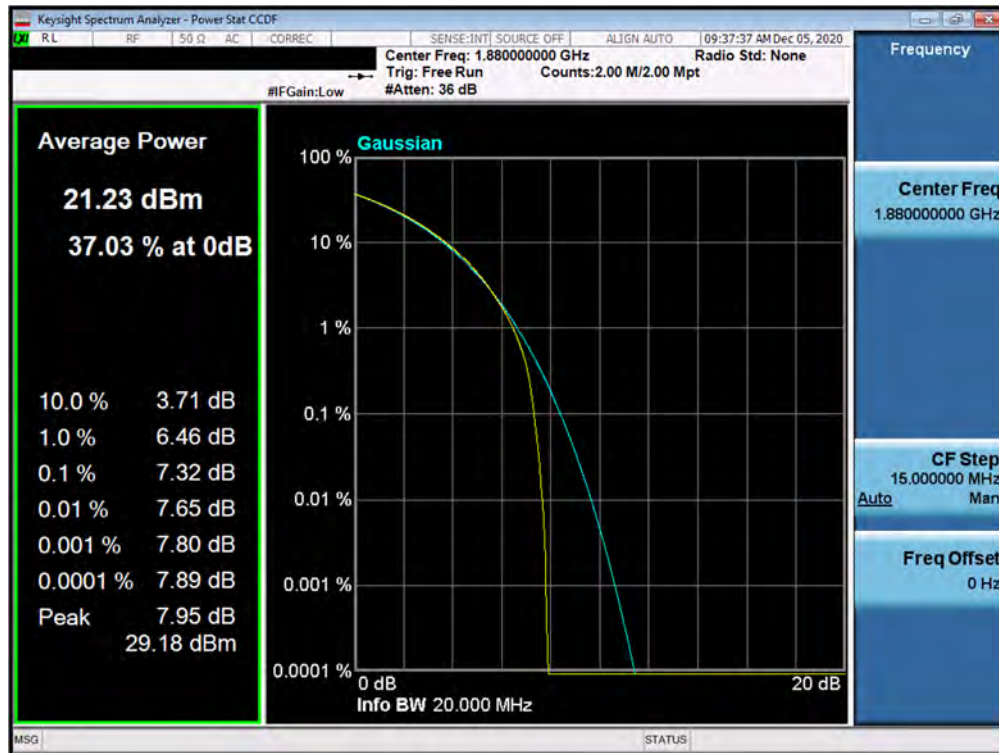
Plot 7-323. PAR Plot (NR Band n25- 25.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 199 of 241

NR Band n25/2 – ANT E

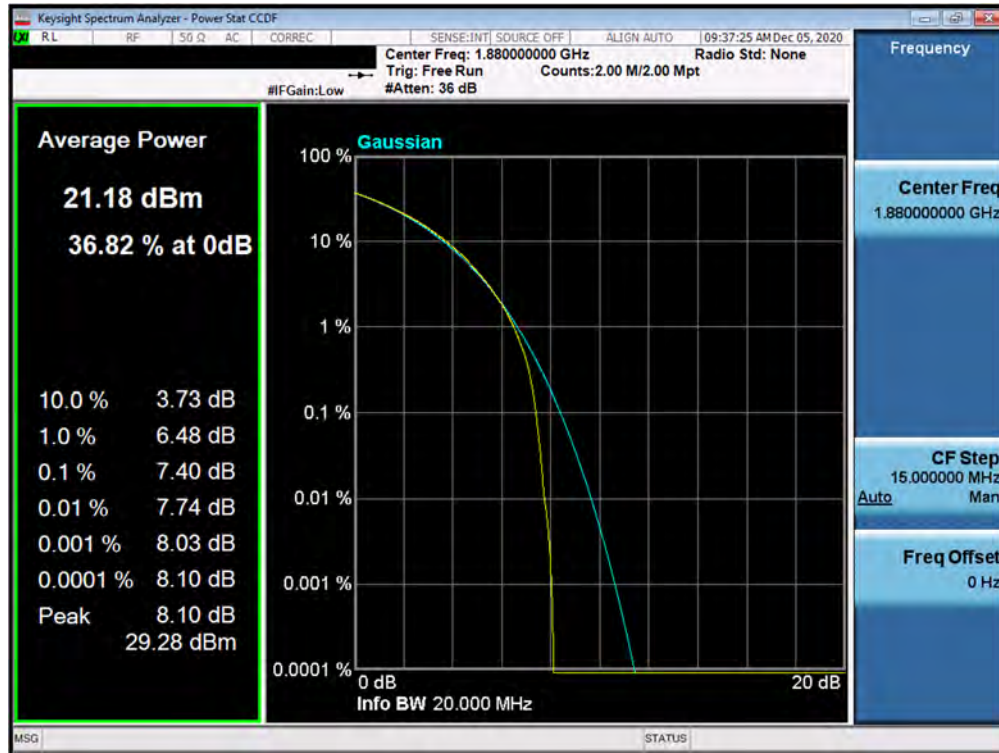


Plot 7-324. PAR Plot (NR Band n2/2- 20.0MHz DFT-s-OFDM BPSK - Full RB)

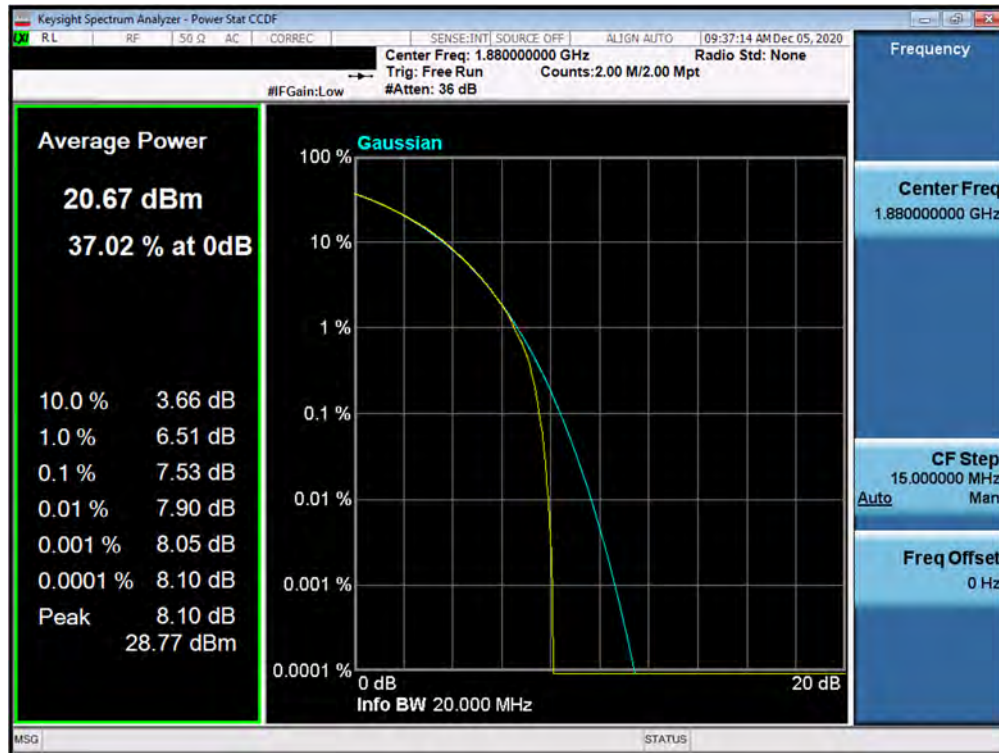


Plot 7-325. PAR Plot (NR Band n2/2- 20.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 200 of 241

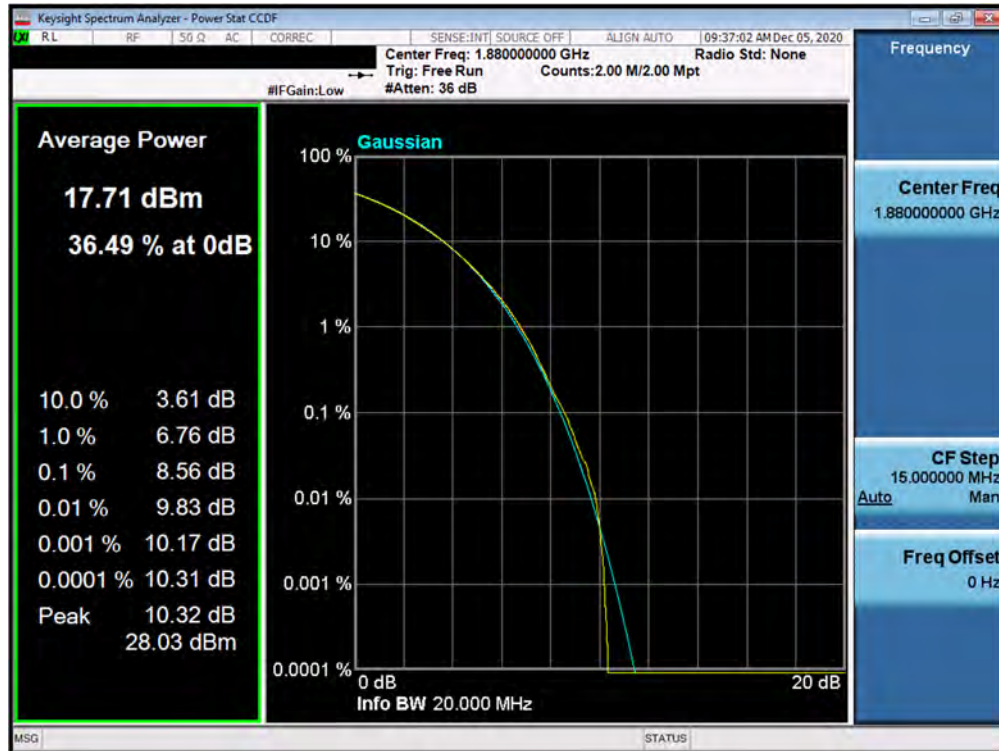


Plot 7-326. PAR Plot (NR Band n2/2- 20.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)

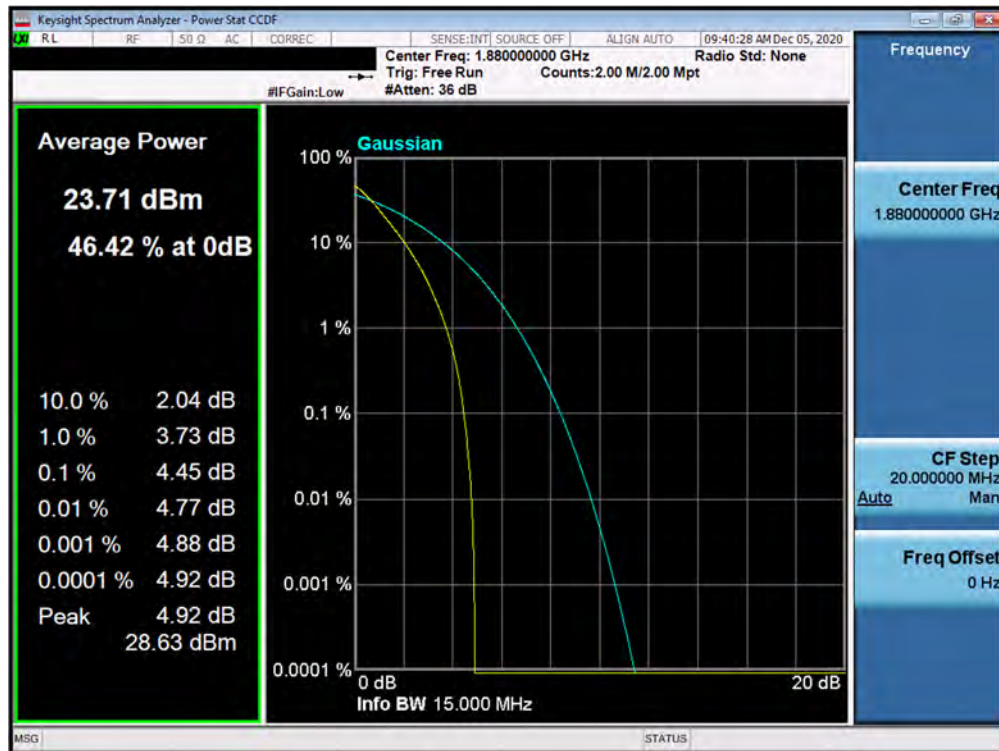


Plot 7-327. PAR Plot (NR Band n2/2- 20.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 201 of 241

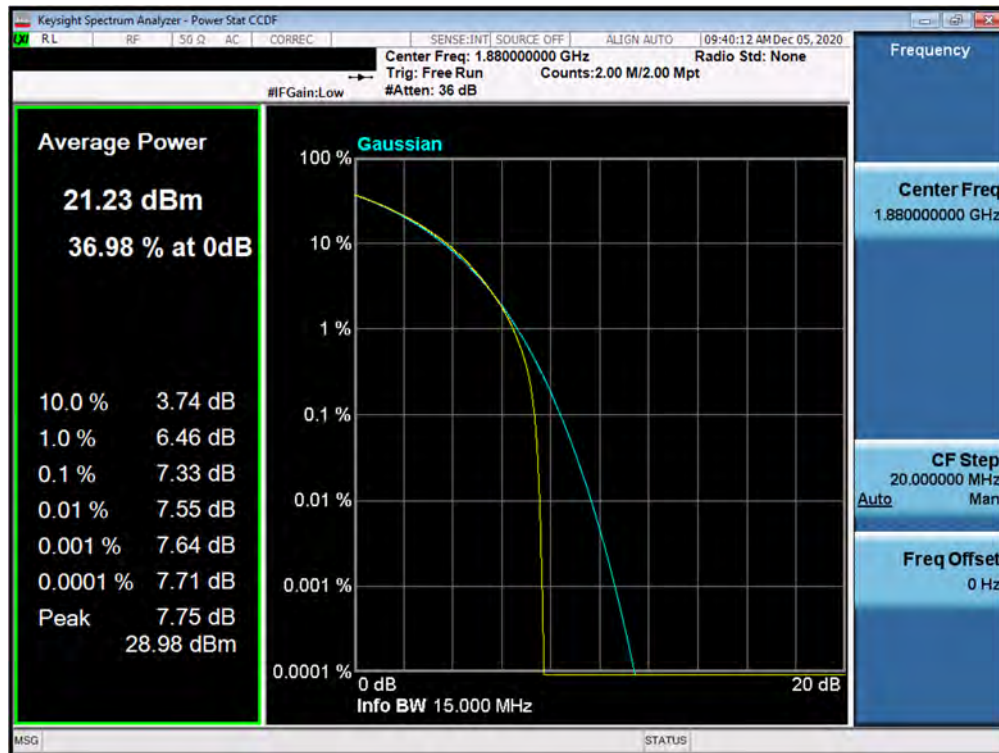


Plot 7-328. PAR Plot (NR Band n2/2- 20.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

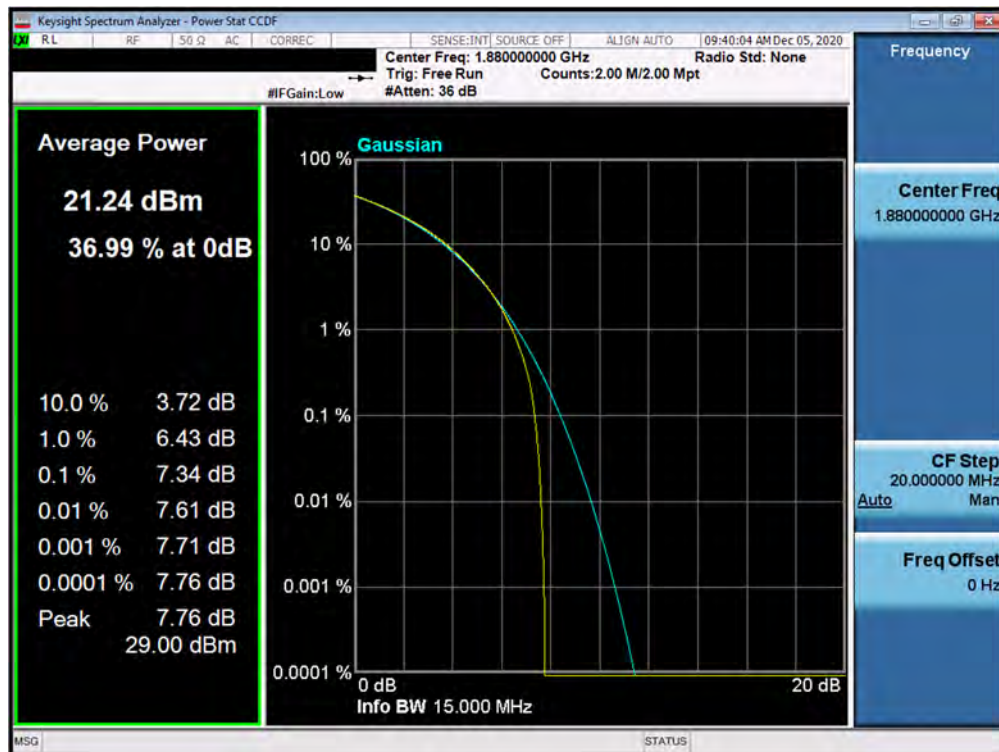


Plot 7-329. PAR Plot (NR Band n2/2- 15.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 202 of 241

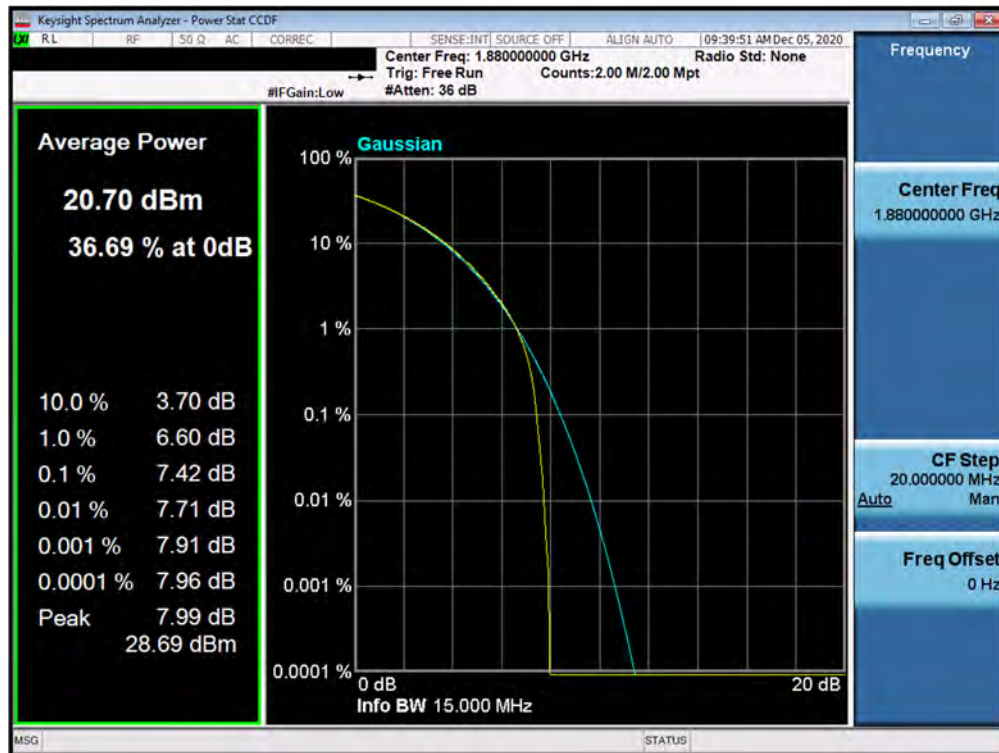


Plot 7-330. PAR Plot (NR Band n2/2- 15.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

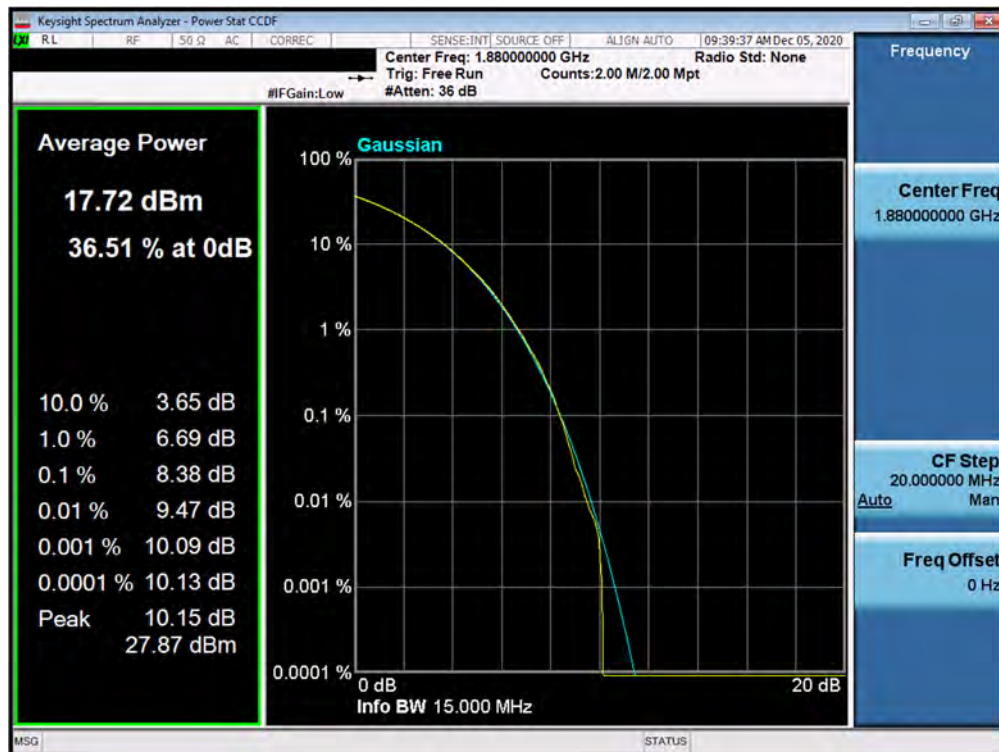


Plot 7-331. PAR Plot (NR Band n2/2- 15.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 203 of 241

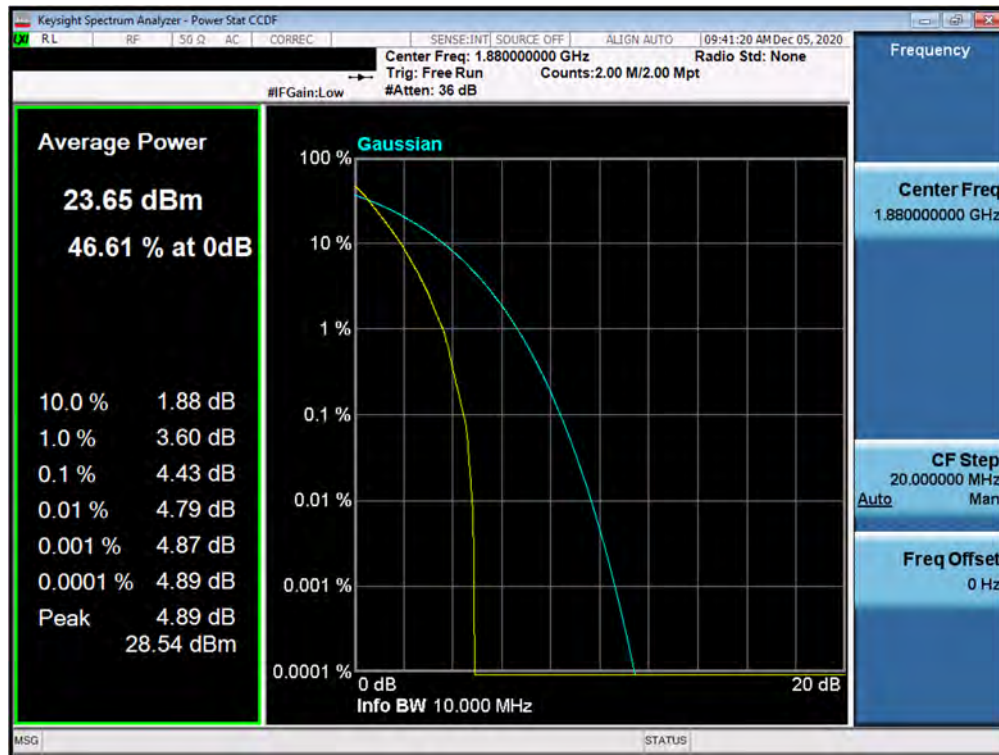


Plot 7-332. PAR Plot (NR Band n2/2- 15.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

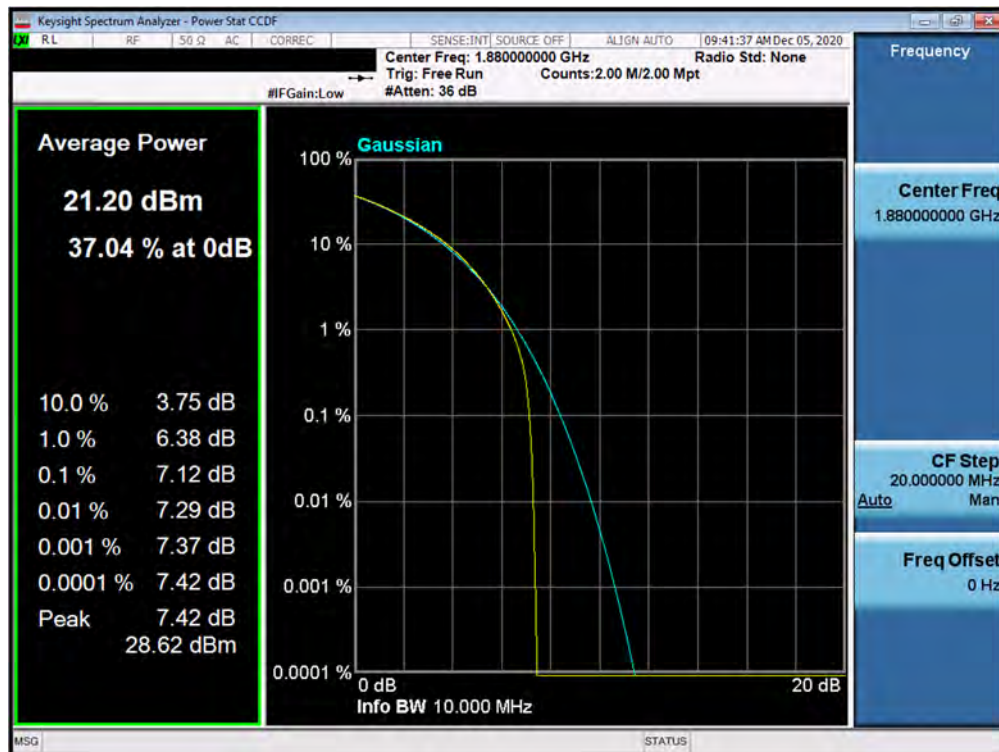


Plot 7-333. PAR Plot (NR Band n2/2- 15.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 204 of 241

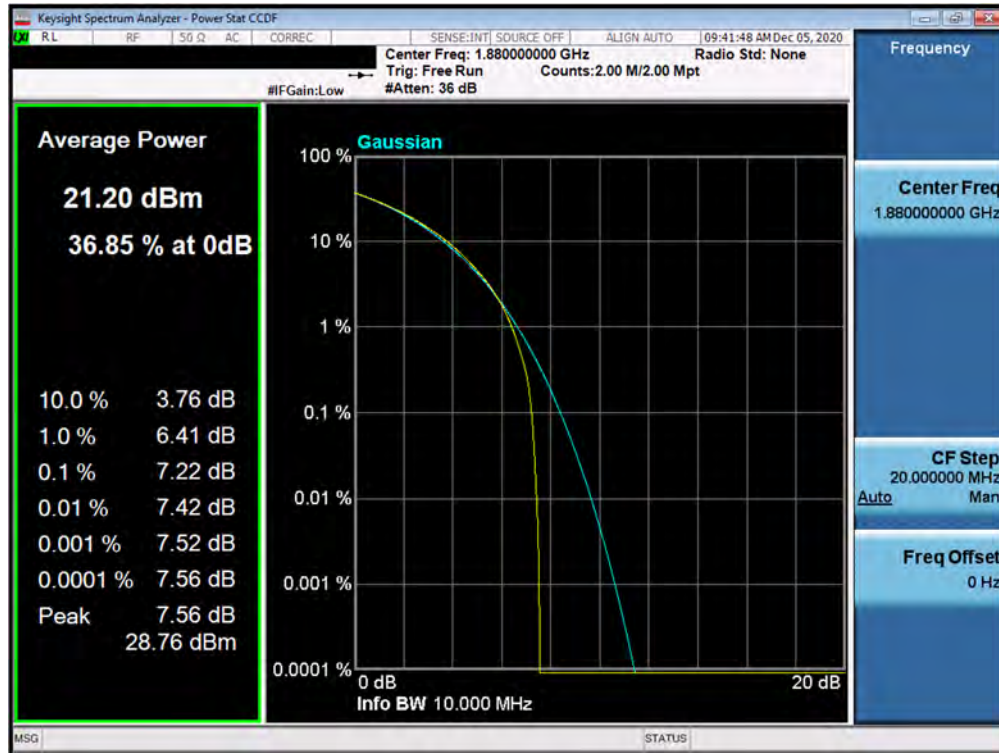


Plot 7-334. PAR Plot (NR Band n2/2- 10.0MHz DFT-s-OFDM BPSK - Full RB)

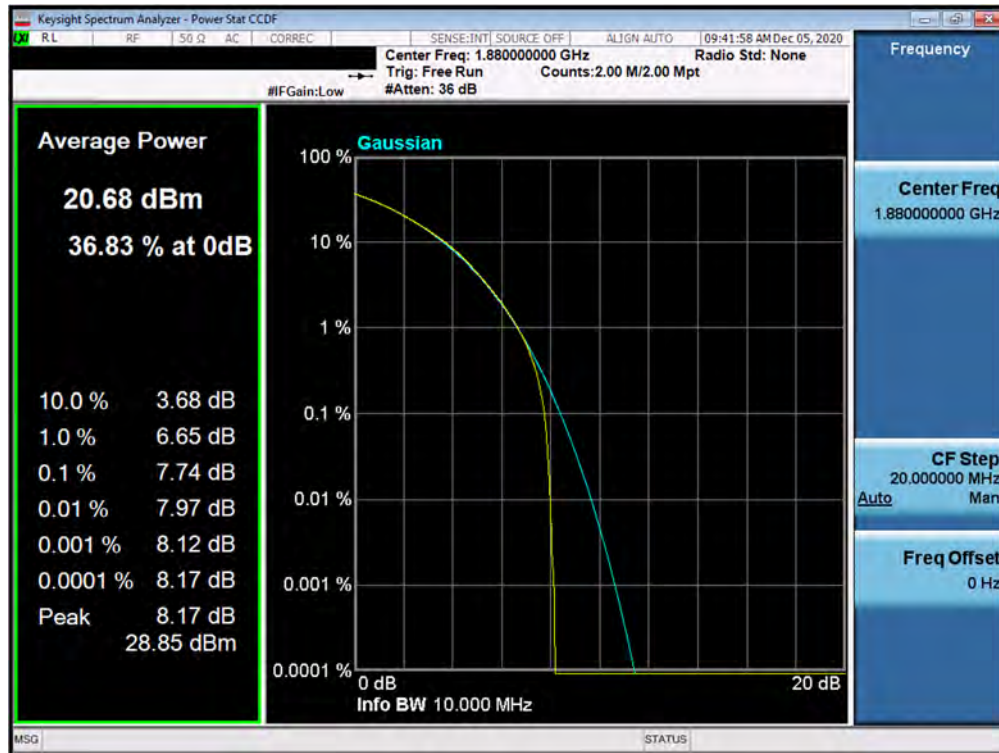


Plot 7-335. PAR Plot (NR Band n2/2- 10.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 205 of 241

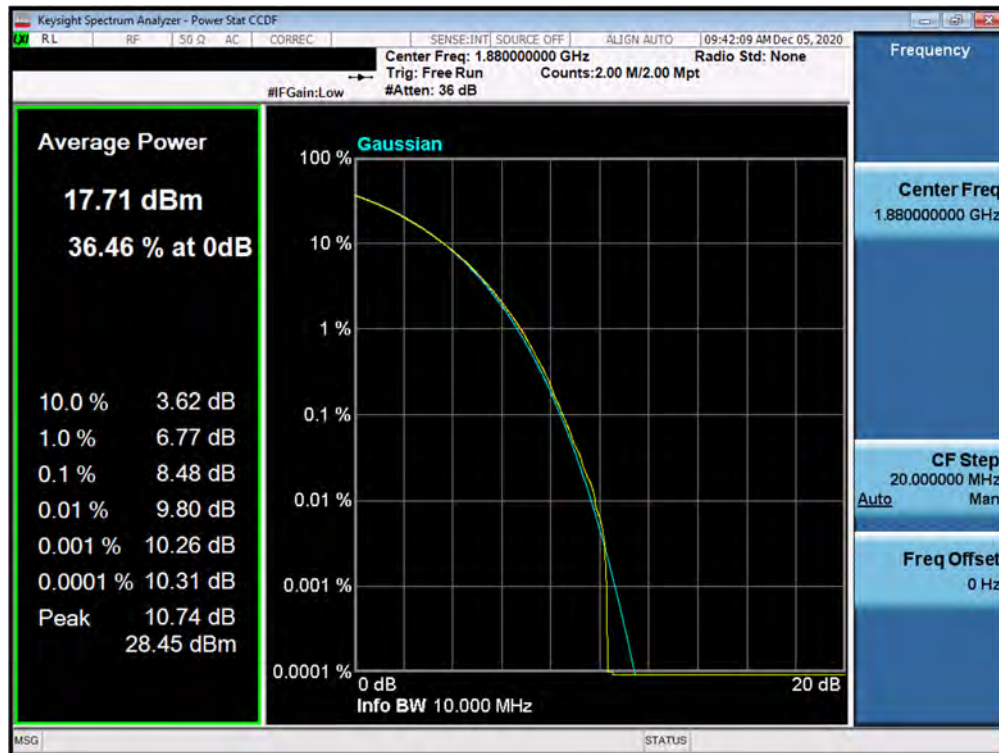


Plot 7-336. PAR Plot (NR Band n2/2- 10.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)

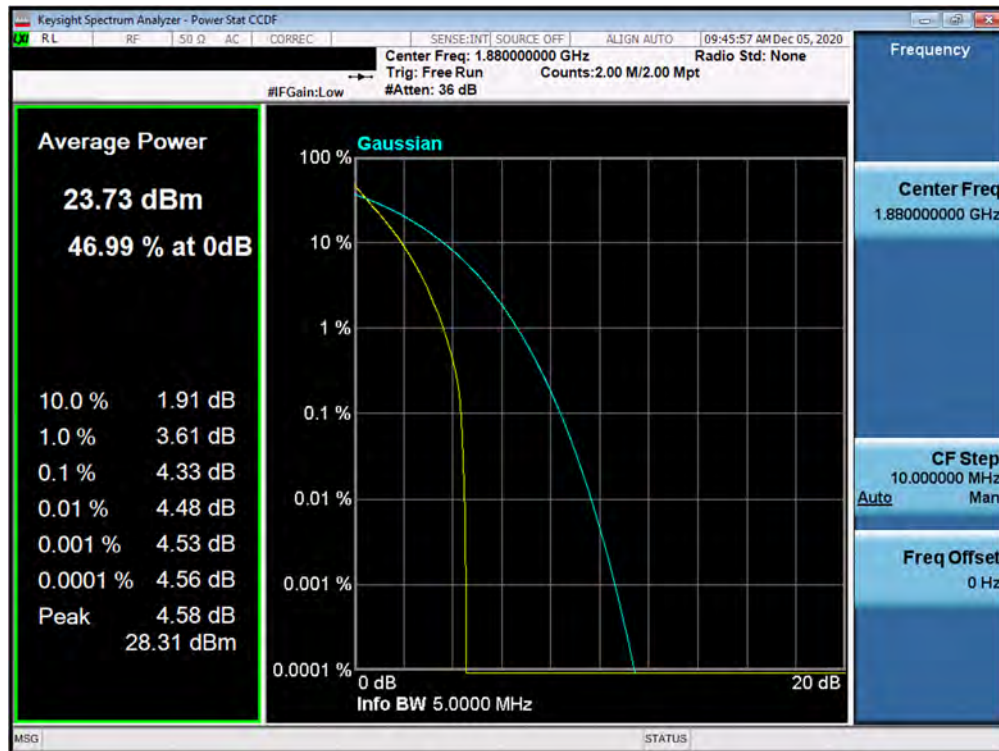


Plot 7-337. PAR Plot (NR Band n2/2- 10.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 206 of 241

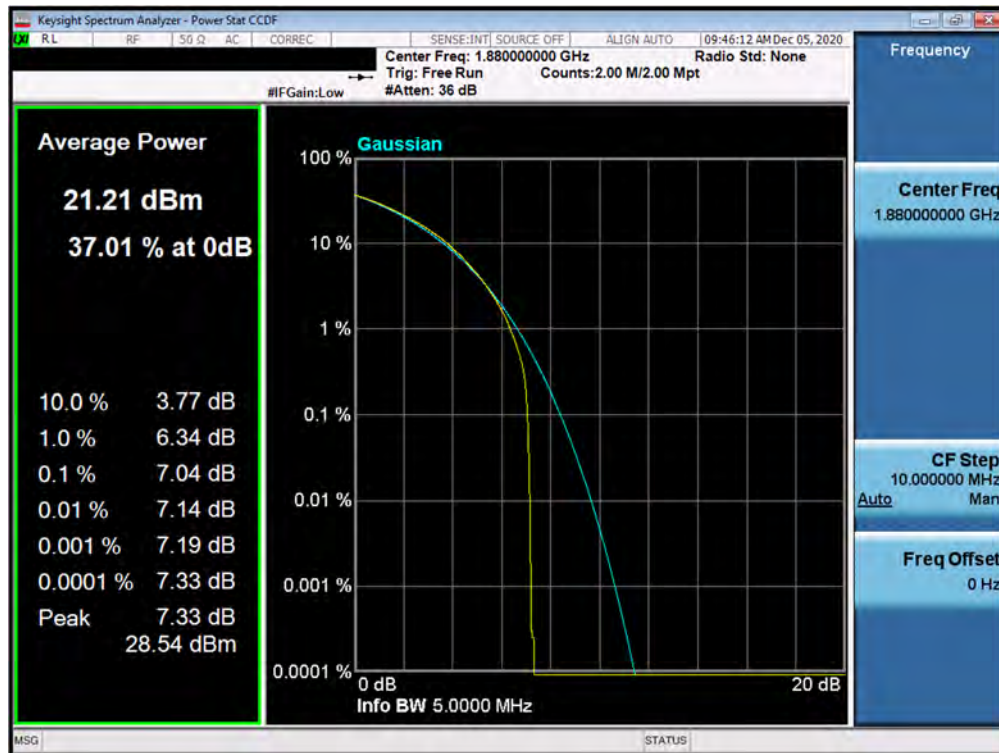


Plot 7-338. PAR Plot (NR Band n2/2- 10.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

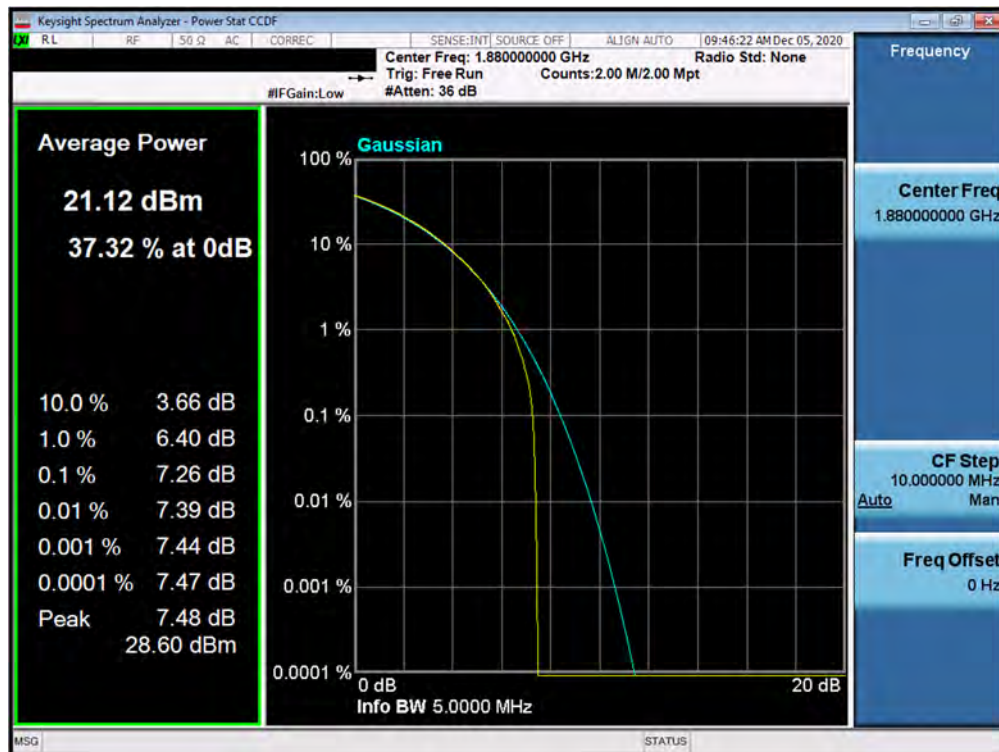


Plot 7-339. PAR Plot (NR Band n2/2- 5.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 207 of 241

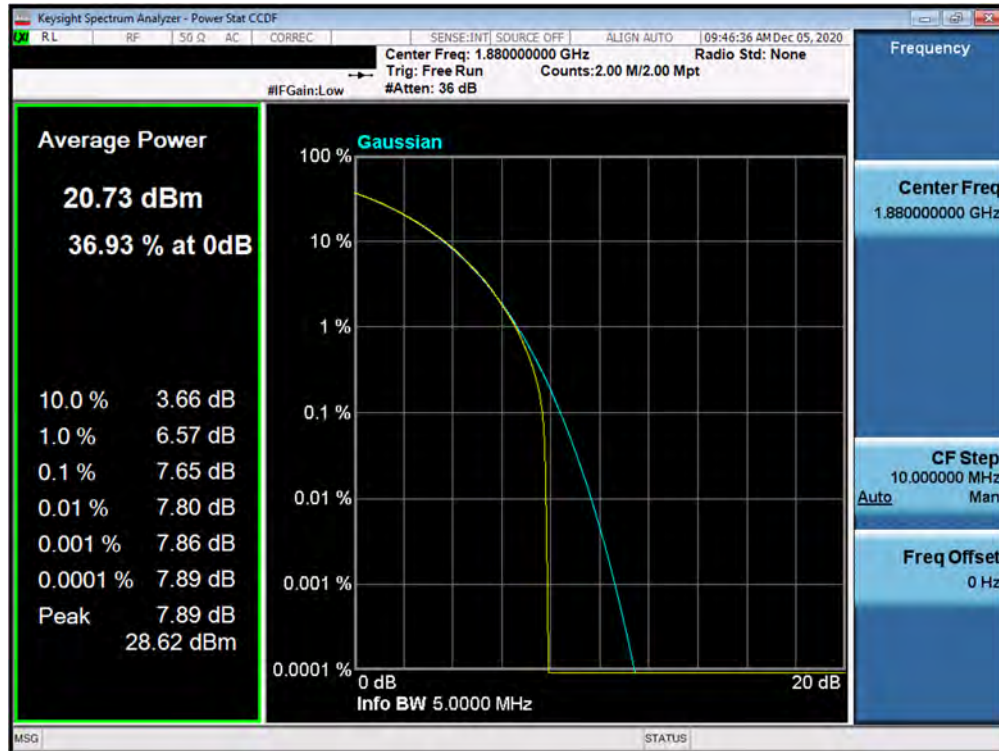


Plot 7-340. PAR Plot (NR Band n2/2- 5.0MHz CP-OFDM-CP-OFDM QPSK - Full RB)

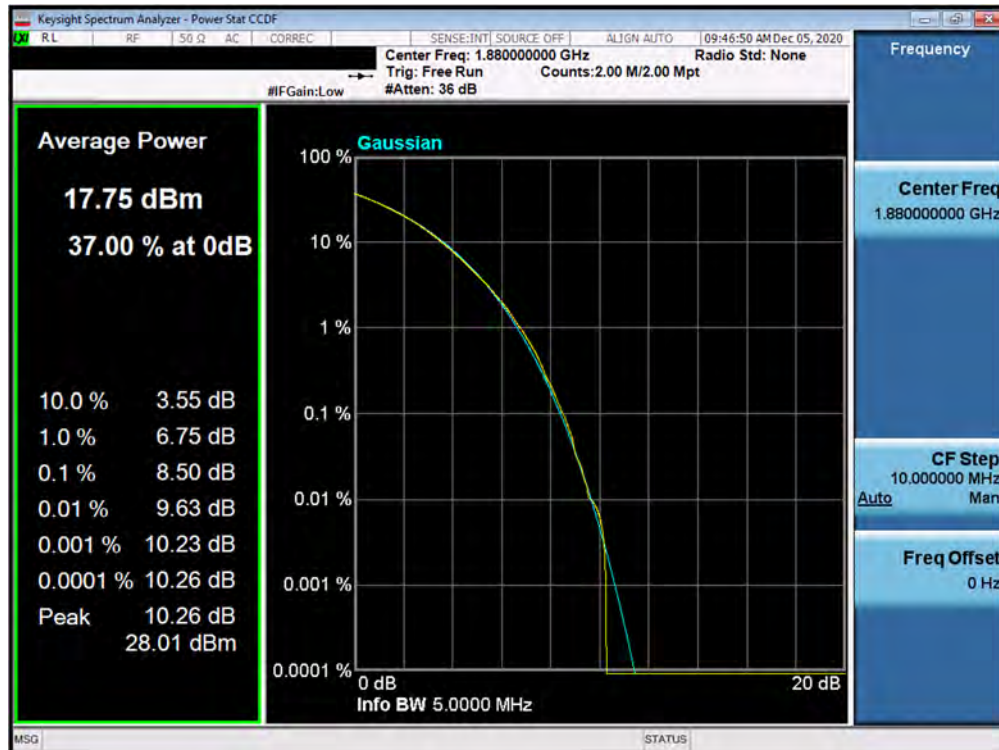


Plot 7-341. PAR Plot (NR Band n2/2- 5.0MHz CP-OFDM-CP-OFDM 16-QAM - Full RB)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
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Plot 7-342. PAR Plot (NR Band n2/2- 5.0MHz CP-OFDM-CP-OFDM 64-QAM - Full RB)



Plot 7-343. PAR Plot (NR Band n2/2- 5.0MHz CP-OFDM-CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
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7.6 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 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 RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.2.1

ANSI/TIA-603-E-2016 – 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. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
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". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power
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.

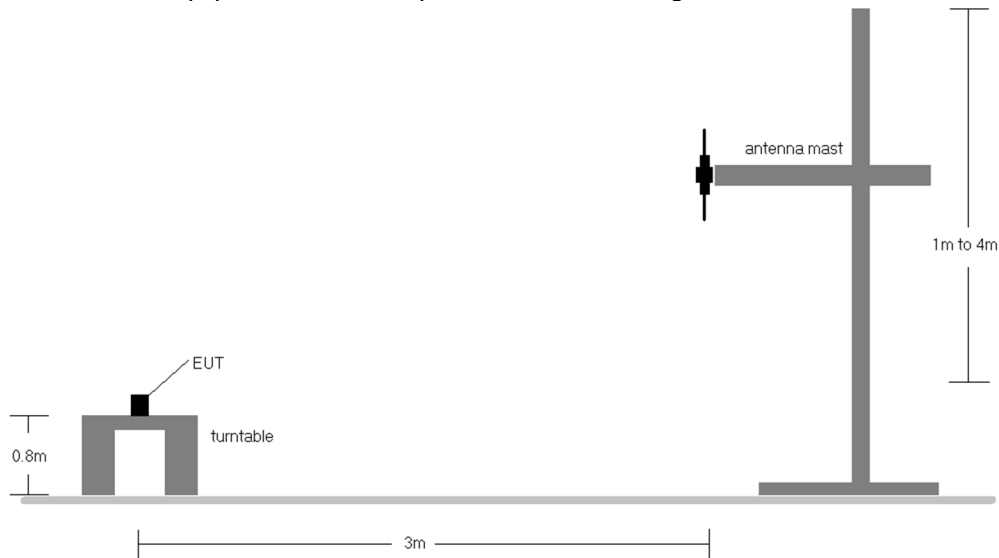


Figure 7-5. Radiated Test Setup <1GHz

Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers is reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 3) This device was tested under all RC and SO combinations and the worst case is reported with RC3/SO55 with "All Up" power control bits.
- 4) 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.
- 5) This unit was tested with its standard battery.
- 6) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
- 7) 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.

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Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GSM1900	V	214	323	17.04	9.90	26.94	0.495	33.01	-6.07
1880.00	GSM1900	V	112	344	18.36	10.13	28.49	0.707	33.01	-4.52
1909.80	GSM1900	V	200	314	16.65	10.34	26.99	0.500	33.01	-6.02
1880.00	GSM1900	H	247	184	16.26	10.13	26.39	0.436	33.01	-6.62
1880.00	EDGE1900	V	112	344	15.22	10.13	25.35	0.343	33.01	-7.66
1880.00	GSM1900 (WCP)	H	136	50	15.60	10.13	25.73	0.374	33.01	-7.28

Table 7-2. EIRP Data (GPRS PCS)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	V	121	340	13.67	9.92	23.59	0.229	33.01	-9.42
1880.00	WCDMA1900	V	136	331	13.21	10.13	23.34	0.216	33.01	-9.67
1907.60	WCDMA1900	V	149	189	10.75	10.33	21.08	0.128	33.01	-11.93
1852.40	WCDMA1900	H	149	204	12.91	9.92	22.83	0.192	33.01	-10.18
1852.40	WCDMA1900 (WCP)	V	331	204	12.99	9.92	22.91	0.195	33.01	-10.10

Table 7-3. EIRP Data (WCDMA PCS)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1851.25	CDMA1900	V	141	332	13.69	9.91	23.60	0.229	33.01	-9.41
1880.00	CDMA1900	V	152	340	13.54	10.13	23.67	0.233	33.01	-9.34
1908.75	CDMA1900	V	100	192	10.92	10.33	21.25	0.133	33.01	-11.76
1880.00	CDMA1900	H	100	182	12.95	10.13	23.08	0.203	33.01	-9.93
1880.00	CDMA1900 (WCP)	V	117	201	12.24	10.13	22.37	0.173	33.01	-10.64

Table 7-4. EIRP Data (CDMA PCS)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1860.0	V	Y	115.0	344.0	9.98	1 / 0	12.78	22.76	0.189	33.01	-10.25
		1882.5	V	Y	128.0	342.0	10.15	1 / 99	12.64	22.79	0.190	33.01	-10.22
		1905.0	V	Y	104.0	341.0	10.31	1 / 50	12.55	22.86	0.193	33.01	-10.15
	16-QAM	1905.0	V	Y	104.0	341.0	10.31	1 / 50	11.94	22.25	0.168	33.01	-10.76
	64-QAM	1905.0	V	Y	104.0	341.0	10.31	1 / 50	10.81	21.12	0.130	33.01	-11.89
	256-QAM	1905.0	V	Y	104.0	341.0	10.31	1 / 50	7.72	18.03	0.064	33.01	-14.98
15 MHz	QPSK	1857.5	V	Y	115.0	344.0	9.96	1 / 36	12.79	22.75	0.188	33.01	-10.26
		1882.5	V	Y	128.0	342.0	10.15	1 / 74	12.79	22.94	0.197	33.01	-10.07
		1907.5	V	Y	104.0	341.0	10.33	1 / 36	12.46	22.78	0.190	33.01	-10.23
	16-QAM	1907.5	V	Y	104.0	341.0	10.33	1 / 36	11.88	22.20	0.166	33.01	-10.81
	64-QAM	1907.5	V	Y	104.0	341.0	10.33	1 / 36	11.32	21.64	0.146	33.01	-11.37
	256-QAM	1907.5	V	Y	104.0	341.0	10.33	1 / 36	7.90	18.22	0.066	33.01	-14.79
10 MHz	QPSK	1855.0	V	Y	115.0	344.0	9.94	1 / 25	12.52	22.46	0.176	33.01	-10.55
		1882.5	V	Y	128.0	342.0	10.15	1 / 25	12.61	22.76	0.189	33.01	-10.25
		1910.0	V	Y	104.0	341.0	10.34	1 / 49	12.37	22.71	0.187	33.01	-10.30
	16-QAM	1855.0	V	Y	115.0	344.0	9.94	1 / 25	12.18	22.12	0.163	33.01	-10.89
	64-QAM	1910.0	V	Y	104.0	341.0	10.34	1 / 49	11.17	21.51	0.142	33.01	-11.50
	256-QAM	1910.0	V	Y	104.0	341.0	10.34	1 / 49	7.62	17.96	0.063	33.01	-15.05
5 MHz	QPSK	1852.5	V	Y	115.0	344.0	9.92	1 / 24	12.72	22.64	0.184	33.01	-10.37
		1882.5	V	Y	128.0	342.0	10.15	1 / 24	12.83	22.98	0.199	33.01	-10.03
		1912.5	V	Y	104.0	341.0	10.36	1 / 0	12.32	22.67	0.185	33.01	-10.34
	16-QAM	1882.5	V	Y	128.0	342.0	10.15	1 / 24	12.14	22.29	0.170	33.01	-10.72
	64-QAM	1912.5	V	Y	104.0	341.0	10.36	1 / 0	10.67	21.02	0.127	33.01	-11.99
	256-QAM	1912.5	V	Y	104.0	341.0	10.36	1 / 0	7.71	18.06	0.064	33.01	-14.95
3 MHz	QPSK	1851.5	V	Y	115.0	344.0	9.91	1 / 14	12.68	22.59	0.181	33.01	-10.42
		1882.5	V	Y	128.0	342.0	10.15	1 / 14	12.74	22.89	0.195	33.01	-10.12
		1913.5	V	Y	104.0	341.0	10.36	1 / 14	12.38	22.74	0.188	33.01	-10.27
	16-QAM	1851.5	V	Y	115.0	344.0	9.91	1 / 14	12.27	22.18	0.165	33.01	-10.83
	64-QAM	1913.5	V	Y	104.0	341.0	10.36	1 / 14	11.17	21.53	0.142	33.01	-11.48
	256-QAM	1913.5	V	Y	104.0	341.0	10.36	1 / 14	7.75	18.11	0.065	33.01	-14.90
1.4 MHz	QPSK	1850.7	V	Y	115.0	344.0	9.91	1 / 2	12.71	22.62	0.183	33.01	-10.39
		1882.5	V	Y	128.0	342.0	10.15	1 / 2	12.75	22.90	0.195	33.01	-10.11
		1914.3	V	Y	104.0	341.0	10.37	1 / 2	12.27	22.63	0.183	33.01	-10.38
	16-QAM	1882.5	V	Y	128.0	342.0	10.15	1 / 2	11.95	22.10	0.162	33.01	-10.91
	64-QAM	1914.3	V	Y	104.0	341.0	10.37	1 / 2	10.48	20.84	0.121	33.01	-12.17
	256-QAM	1914.3	V	Y	104.0	341.0	10.37	1 / 2	7.61	17.97	0.063	33.01	-15.04
20 MHz	Opposite Pol.	1905.0	H	X	186.0	176.0	10.15	1 / 50	11.27	21.42	0.139	33.01	-11.59
	WCP	1905.0	V	WCP	131.0	222.0	10.15	1 / 50	8.25	18.40	0.069	33.01	-14.61

Table 7-5. EIRP Data (LTE Band 25/2)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
40 MHz	π/2 BPSK	1860.0	V	Y	139.0	153.0	9.98	1 / 50	14.26	24.04	0.253	33.01	-8.97
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.30	24.22	0.264	33.01	-8.79
		1900.0	V	Y	130.0	170.0	10.29	1 / 50	11.78	21.85	0.153	33.01	-11.16
	QPSK	1860.0	V	Y	139.0	153.0	9.98	1 / 50	14.24	24.13	0.259	33.01	-8.88
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.24	24.42	0.277	33.01	-8.59
		1900.0	V	Y	130.0	170.0	10.29	1 / 0	12.97	23.22	0.210	33.01	-9.79
	16-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	13.48	23.70	0.235	33.01	-9.31
	64-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	11.69	21.79	0.151	33.01	-11.22
	256-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	9.92	20.13	0.103	33.01	-12.88
30 MHz	π/2 BPSK	1857.5	V	Y	139.0	153.0	9.96	1 / 0	14.21	24.17	0.261	33.01	-8.84
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.22	24.35	0.272	33.01	-8.66
		1902.5	V	Y	130.0	170.0	10.30	1 / 0	11.68	21.98	0.158	33.01	-11.03
	QPSK	1857.5	V	Y	139.0	153.0	9.96	1 / 0	13.90	23.86	0.243	33.01	-9.15
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.02	24.15	0.260	33.01	-8.86
		1902.5	V	Y	130.0	170.0	10.30	1 / 0	12.65	22.95	0.197	33.01	-10.06
	16-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	13.52	23.65	0.232	33.01	-9.36
	64-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	11.47	21.60	0.145	33.01	-11.41
	256-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	10.16	20.29	0.107	33.01	-12.72
25 MHz	π/2 BPSK	1855.0	V	Y	139.0	153.0	9.94	1 / 0	13.84	23.78	0.239	33.01	-9.23
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	13.83	23.96	0.249	33.01	-9.05
		1905.0	V	Y	130.0	170.0	10.31	1 / 0	11.27	21.59	0.144	33.01	-11.42
	QPSK	1855.0	V	Y	139.0	153.0	9.94	1 / 0	13.93	23.87	0.244	33.01	-9.14
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.03	24.16	0.261	33.01	-8.85
		1905.0	V	Y	130.0	170.0	10.31	1 / 0	12.64	22.96	0.198	33.01	-10.05
	16-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	13.38	23.51	0.225	33.01	-9.50
	64-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	11.36	21.49	0.141	33.01	-11.52
	256-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	10.06	20.19	0.105	33.01	-12.82

Table 7-6. EIRP Data (NR Band n25) – ANT A

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	1860.0	V	Y	139.0	153.0	9.98	1 / 50	14.26	24.24	0.265	33.01	-8.77
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.30	24.43	0.278	33.01	-8.58
		1900.0	V	Y	130.0	170.0	10.29	1 / 50	11.78	22.07	0.161	33.01	-10.94
	QPSK	1860.0	V	Y	139.0	153.0	9.98	1 / 50	14.24	24.22	0.264	33.01	-8.79
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.24	24.37	0.274	33.01	-8.64
		1900.0	V	Y	130.0	170.0	10.29	1 / 0	12.97	23.26	0.212	33.01	-9.75
	16-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	13.48	23.61	0.230	33.01	-9.40
	64-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	11.69	21.82	0.152	33.01	-11.19
15 MHz	π/2 BPSK	1880.0	V	Y	131.0	161.0	10.13	1 / 0	9.92	20.05	0.101	33.01	-12.96
		1857.5	V	Y	139.0	153.0	9.96	1 / 0	14.45	24.41	0.276	33.01	-8.60
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.25	24.38	0.274	33.01	-8.63
	QPSK	1902.5	V	Y	130.0	170.0	10.30	1 / 0	11.69	21.99	0.158	33.01	-11.02
		1857.5	V	Y	139.0	153.0	9.96	1 / 0	14.31	24.27	0.267	33.01	-8.74
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.23	24.36	0.273	33.01	-8.65
	16-QAM	1902.5	V	Y	130.0	170.0	10.30	1 / 0	12.91	23.21	0.209	33.01	-9.80
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	13.45	23.58	0.228	33.01	-9.43
10 MHz	π/2 BPSK	1880.0	V	Y	131.0	161.0	10.13	1 / 0	11.87	22.00	0.159	33.01	-11.01
		1855.0	V	Y	139.0	153.0	9.94	1 / 0	14.41	24.35	0.272	33.01	-8.66
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.18	24.31	0.270	33.01	-8.70
	QPSK	1905.0	V	Y	130.0	170.0	10.31	1 / 0	11.85	22.17	0.165	33.01	-10.84
		1855.0	V	Y	139.0	153.0	9.94	1 / 0	14.42	24.36	0.273	33.01	-8.65
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.27	24.40	0.276	33.01	-8.61
	16-QAM	1905.0	V	Y	130.0	170.0	10.31	1 / 0	13.11	23.43	0.220	33.01	-9.58
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	13.33	23.46	0.222	33.01	-9.55
5 MHz	π/2 BPSK	1880.0	V	Y	131.0	161.0	10.13	1 / 0	11.52	21.65	0.146	33.01	-11.36
		1855.0	V	Y	139.0	153.0	9.94	1 / 0	14.41	24.35	0.272	33.01	-8.66
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.18	24.31	0.270	33.01	-8.70
	QPSK	1905.0	V	Y	130.0	170.0	10.31	1 / 0	11.85	22.17	0.165	33.01	-10.84
		1855.0	V	Y	139.0	153.0	9.94	1 / 0	14.42	24.36	0.273	33.01	-8.65
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.27	24.40	0.276	33.01	-8.61
	16-QAM	1905.0	V	Y	130.0	170.0	10.31	1 / 0	13.11	23.43	0.220	33.01	-9.58
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	13.33	23.46	0.222	33.01	-9.55
20 MHz	π/2 BPSK	1880.0	V	Y	131.0	161.0	10.13	1 / 0	9.56	19.69	0.093	33.01	-13.32
		1852.5	V	Y	139.0	153.0	9.92	1 / 0	14.50	24.42	0.277	33.01	-8.59
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.21	24.34	0.272	33.01	-8.67
	QPSK	1907.5	V	Y	130.0	170.0	10.33	1 / 0	11.65	21.98	0.158	33.01	-11.03
		1852.5	V	Y	139.0	153.0	9.92	1 / 0	14.36	24.28	0.268	33.01	-8.73
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.20	24.33	0.271	33.01	-8.68
	16-QAM	1907.5	V	Y	130.0	170.0	10.33	1 / 0	13.29	23.62	0.230	33.01	-9.39
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	13.28	23.41	0.219	33.01	-9.60
20 MHz	64-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	11.57	21.70	0.148	33.01	-11.31
	256-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	9.75	19.88	0.097	33.01	-13.13
	QPSK (CP-OFDM)	1880.0	V	Y	131.0	161.0	10.13	1 / 0	10.23	20.36	0.109	33.01	-12.65
20 MHz	QPSK (Opposite Pol.)	1880.0	H	X	242.0	247.0	10.13	1 / 0	12.94	23.07	0.203	33.01	-9.94
	QPSK (WCP)	1880.0	V	WCP	149.0	222.0	10.13	1 / 0	12.07	22.20	0.166	33.01	-10.81

Table 7-7. EIRP Data (NR Band n25/2) – ANT A

FCC ID: A3LSMG998U		PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
40 MHz	$\pi/2$ BPSK	1860.0	V	Y	139.0	153.0	9.98	1 / 50	14.26	22.57	0.181	33.01	-10.44
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.30	22.90	0.195	33.01	-10.11
		1900.0	V	Y	130.0	170.0	10.29	1 / 50	11.78	21.82	0.152	33.01	-11.19
	QPSK	1860.0	V	Y	139.0	153.0	9.98	1 / 50	14.24	22.54	0.179	33.01	-10.47
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	14.24	22.87	0.194	33.01	-10.14
		1900.0	V	Y	130.0	170.0	10.29	1 / 0	12.97	21.79	0.151	33.01	-11.22
	16-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	13.48	22.07	0.161	33.01	-10.94
	64-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	11.69	20.35	0.108	33.01	-12.66
30 MHz	$\pi/2$ BPSK	1860.0	V	Y	131.0	161.0	10.13	1 / 0	9.92	18.77	0.075	33.01	-14.24
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	12.57	22.53	0.179	33.01	-10.48
		1902.5	V	Y	130.0	170.0	10.30	1 / 0	12.73	22.86	0.193	33.01	-10.15
	QPSK	1857.5	V	Y	139.0	153.0	9.96	1 / 0	12.68	22.64	0.184	33.01	-10.37
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	12.84	22.97	0.198	33.01	-10.04
		1902.5	V	Y	130.0	170.0	10.30	1 / 0	11.59	21.89	0.154	33.01	-11.12
	16-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	11.96	22.09	0.162	33.01	-10.92
	64-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	10.54	20.67	0.117	33.01	-12.34
25 MHz	$\pi/2$ BPSK	1880.0	V	Y	131.0	161.0	10.13	1 / 0	8.66	18.79	0.076	33.01	-14.22
		1855.0	V	Y	139.0	153.0	9.94	1 / 0	12.60	22.54	0.179	33.01	-10.47
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	12.74	22.87	0.194	33.01	-10.14
	QPSK	1905.0	V	Y	130.0	170.0	10.31	1 / 0	11.47	21.79	0.151	33.01	-11.22
		1855.0	V	Y	139.0	153.0	9.94	1 / 0	12.62	22.56	0.180	33.01	-10.45
		1880.0	V	Y	131.0	161.0	10.13	1 / 0	12.76	22.89	0.195	33.01	-10.12
	16-QAM	1905.0	V	Y	130.0	170.0	10.31	1 / 0	11.49	21.81	0.152	33.01	-11.20
	64-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	10.97	21.10	0.129	33.01	-11.91
25 MHz	256-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	9.43	19.56	0.090	33.01	-13.45
	256-QAM	1880.0	V	Y	131.0	161.0	10.13	1 / 0	7.91	18.04	0.064	33.01	-14.97

Table 7-8. EIRP Data (NR Band n25) – ANT E

FCC ID: A3LSMG998U		PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	EUT Pol.	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	1860.0	H	X	149.0	331.0	9.98	1 / 50	12.73	22.71	0.187	33.01	-10.30
		1880.0	H	X	152.0	256.0	10.13	1 / 0	12.91	23.04	0.201	33.01	-9.97
		1900.0	H	X	140.0	221.0	10.29	1 / 0	11.67	21.96	0.157	33.01	-11.05
	QPSK	1860.0	H	X	149.0	331.0	9.98	1 / 50	12.99	22.97	0.198	33.01	-10.04
		1880.0	H	X	152.0	256.0	9.93	1 / 0	13.08	23.01	0.200	33.01	-10.00
		1900.0	H	X	140.0	221.0	10.29	1 / 0	11.72	22.01	0.159	33.01	-11.00
	16-QAM	1860.0	H	X	149.0	331.0	9.98	1 / 50	12.38	22.36	0.172	33.01	-10.65
	64-QAM	1860.0	H	X	149.0	331.0	9.98	1 / 50	11.28	21.26	0.134	33.01	-11.75
256-QAM	1860.0	H	X	149.0	331.0	9.98	1 / 50	9.39	19.37	0.086	33.01	-13.64	
15 MHz	π/2 BPSK	1857.5	H	X	149.0	331.0	9.96	1 / 37	12.99	22.95	0.197	33.01	-10.06
		1880.0	H	X	152.0	256.0	10.13	1 / 0	12.87	23.00	0.200	33.01	-10.01
		1902.5	H	X	140.0	221.0	10.30	1 / 0	11.58	21.88	0.154	33.01	-11.13
	QPSK	1857.5	H	X	149.0	331.0	9.96	1 / 37	13.06	23.02	0.200	33.01	-9.99
		1880.0	H	X	152.0	256.0	10.13	1 / 0	12.92	23.05	0.202	33.01	-9.96
		1902.5	H	X	140.0	221.0	10.30	1 / 0	11.66	21.96	0.157	33.01	-11.05
	16-QAM	1880.0	H	X	152.0	256.0	10.13	1 / 0	12.07	22.20	0.166	33.01	-10.81
	64-QAM	1880.0	H	X	152.0	256.0	10.13	1 / 0	11.06	21.19	0.132	33.01	-11.82
256-QAM	1880.0	H	X	152.0	256.0	10.13	1 / 0	9.23	19.36	0.086	33.01	-13.65	
10 MHz	π/2 BPSK	1855.0	H	X	149.0	331.0	9.94	1 / 25	12.88	22.82	0.191	33.01	-10.19
		1880.0	H	X	152.0	256.0	10.13	1 / 0	12.79	22.92	0.196	33.01	-10.09
		1905.0	H	X	140.0	221.0	10.31	1 / 0	11.74	22.06	0.161	33.01	-10.95
	QPSK	1855.0	H	X	149.0	331.0	9.94	1 / 25	13.17	23.11	0.205	33.01	-9.90
		1880.0	H	X	152.0	256.0	10.13	1 / 0	12.95	23.08	0.203	33.01	-9.93
		1905.0	H	X	140.0	221.0	10.31	1 / 0	11.86	22.18	0.165	33.01	-10.83
	16-QAM	1880.0	H	X	152.0	256.0	10.13	1 / 0	11.95	22.08	0.162	33.01	-10.93
	64-QAM	1880.0	H	X	152.0	256.0	10.13	1 / 0	10.71	20.84	0.121	33.01	-12.17
256-QAM	1880.0	H	X	152.0	256.0	10.13	1 / 0	8.77	18.90	0.078	33.01	-14.11	
5 MHz	π/2 BPSK	1852.5	H	X	149.0	331.0	9.92	1 / 12	12.97	22.89	0.194	33.01	-10.12
		1880.0	H	X	152.0	256.0	10.13	1 / 0	12.82	22.95	0.197	33.01	-10.06
		1907.5	H	X	140.0	221.0	10.33	1 / 0	11.54	21.87	0.154	33.01	-11.14
	QPSK	1852.5	H	X	149.0	331.0	9.92	1 / 12	13.11	23.03	0.201	33.01	-9.98
		1880.0	H	X	152.0	256.0	10.13	1 / 0	12.90	23.03	0.201	33.01	-9.98
		1907.5	H	X	140.0	221.0	10.33	1 / 0	12.04	22.37	0.172	33.01	-10.64
	16-QAM	1880.0	H	X	152.0	256.0	10.13	1 / 0	11.90	22.03	0.160	33.01	-10.98
	64-QAM	1880.0	H	X	152.0	256.0	10.13	1 / 0	10.76	20.89	0.123	33.01	-12.12
256-QAM	1880.0	H	X	152.0	256.0	10.13	1 / 0	8.96	19.09	0.081	33.01	-13.92	

Table 7-9. EIRP Data (NR Band n25/2) – ANT E

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7.7 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in KDB 971168 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically 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 maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

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 = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. 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.

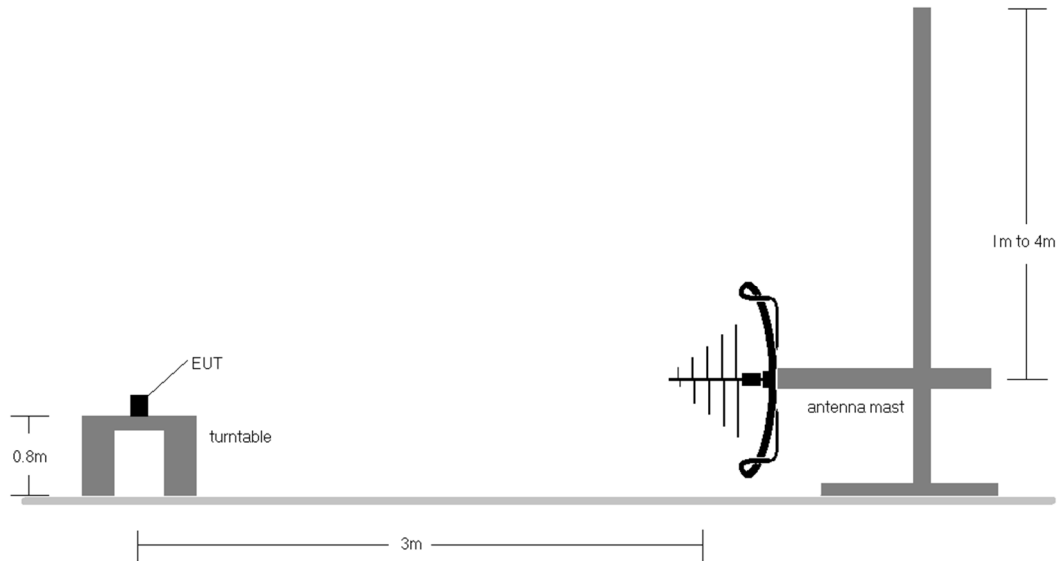


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

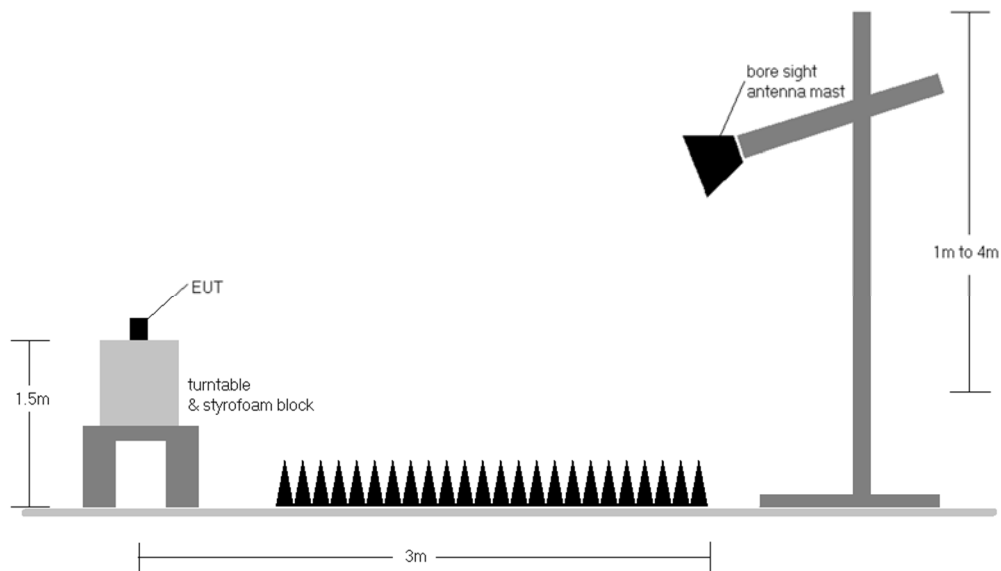


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

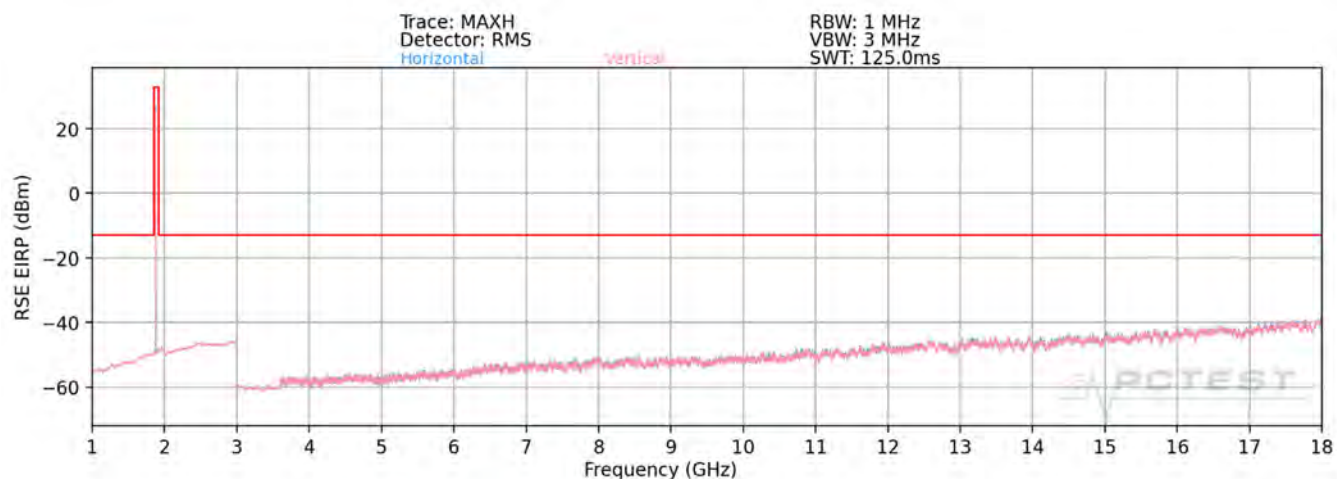
FCC ID: A3LSMG998U	 PART 24 MEASUREMENT REPORT 		Approved by: Quality Manager
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Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - b) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - d) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers is reported in GPRS mode while transmitting with one slot active.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) For CDMA, this device was tested under all RC and SO combinations and the worst case is reported with RC3/SO55 with "All Up" power control bits.
- 5) 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.
- 6) This unit was tested with its standard battery.
- 7) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
- 8) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 9) 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.
- 10) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 11) 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.
- 12) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emission caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

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GSM/GPRS PCS



Plot 7-344. Radiated Spurious Plot (GPRS PCS)

Mode:	GPRS 1 Tx Slot
Channel:	512
Frequency (MHz):	1850.2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3700.4	H	385	263	-74.82	2.50	34.68	-60.58	-13.00	-47.58
5550.6	H	-	-	-76.04	4.75	35.71	-59.55	-13.00	-46.55
7400.8	H	-	-	-76.00	8.61	39.61	-55.65	-13.00	-42.65

Table 7-10. Radiated Spurious Data (GPRS PCS – Low Channel)

Mode:	GPRS 1 Tx Slot
Channel:	661
Frequency (MHz):	1880

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	H	339	175	-74.00	2.64	35.64	-59.62	-13.00	-46.62
5640.0	H	-	-	-76.22	5.07	35.85	-59.41	-13.00	-46.41
7520.0	H	-	-	-76.18	8.86	39.68	-55.58	-13.00	-42.58

Table 7-11. Radiated Spurious Data (GPRS PCS – Mid Channel)

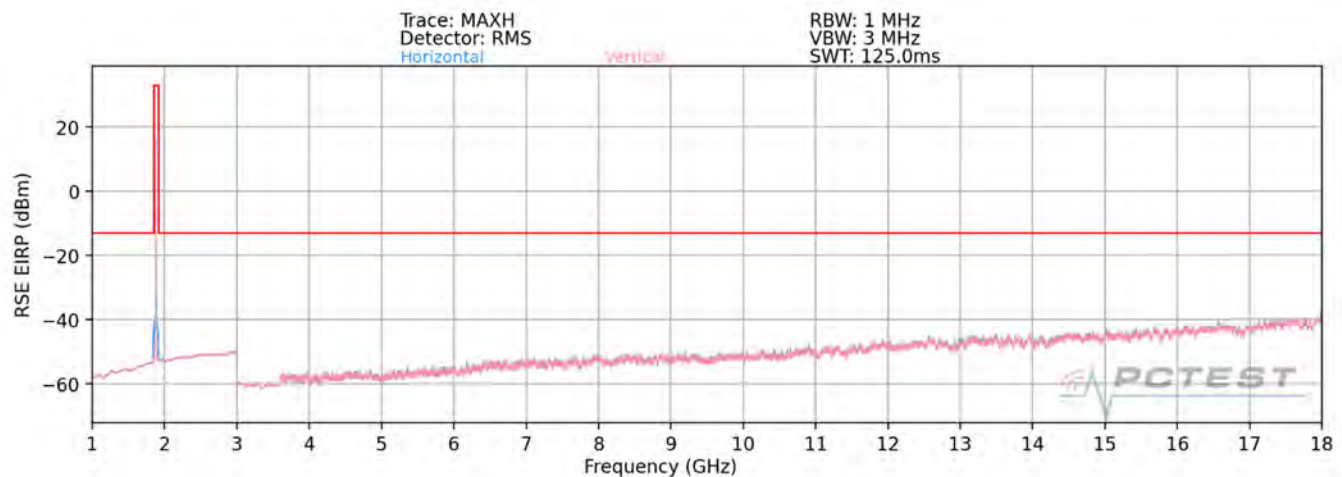
FCC ID: A3LSMG998U	PCTEST Proud to be part of	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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Mode:	GPRS 1 Tx Slot								
Channel:	810								
Frequency (MHz):	1909.8								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3819.6	H	364	177	-71.43	2.39	37.96	-57.30	-13.00	-44.30
5729.4	H	-	-	-76.19	4.69	35.50	-59.76	-13.00	-46.76
7639.2	H	-	-	-75.89	9.22	40.33	-54.93	-13.00	-41.93

Table 7-12. Radiated Spurious Data (GPRS PCS – High Channel)

FCC ID: A3LSMG998U			PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
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WCDMA PCS



Plot 7-345. Radiated Spurious Plot (WCDMA PCS)

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3704.8	H	-	-	-75.40	2.56	34.16	-61.09	-13.00	-48.09
5557.2	H	-	-	-75.87	4.76	35.89	-59.36	-13.00	-46.36

Table 7-13. Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	H	-	-	-74.96	2.64	34.68	-60.58	-13.00	-47.58
5640.0	H	-	-	-76.28	5.07	35.79	-59.47	-13.00	-46.47

Table 7-14. Radiated Spurious Data (WCDMA PCS – Mid Channel)

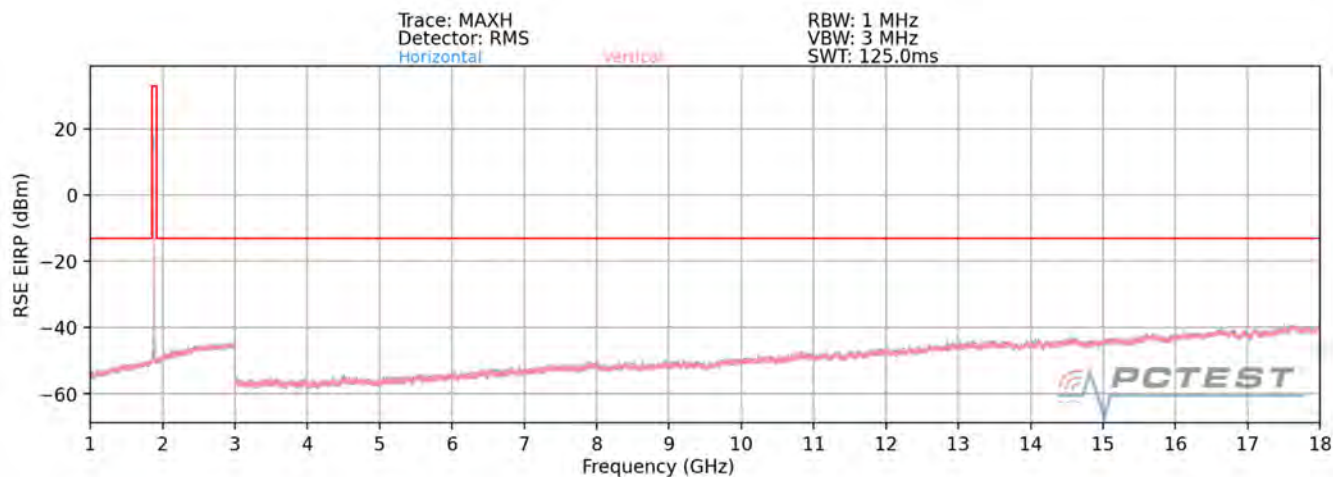
Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3815.2	H	-	-	-75.24	2.39	34.15	-61.11	-13.00	-48.11
5722.8	H	-	-	-75.03	4.72	36.69	-58.56	-13.00	-45.56

Table 7-15. Radiated Spurious Data (WCDMA PCS – High Channel)

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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CDMA PCS



Plot 7-346. Radiated Spurious Plot (CDMA PCS)

Mode:	CDMA
Channel:	25
Frequency (MHz):	1851.25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3702.50	H	-	-	-75.84	5.34	36.50	-58.75	-13.00	-45.75
5553.75	H	-	-	-76.01	8.63	39.62	-55.64	-13.00	-42.64
7405.00	H	-	-	-75.99	12.31	43.32	-51.93	-13.00	-38.93

Table 7-16. Radiated Spurious Data (CDMA PCS – Low Channel)

Mode:	CDMA
Channel:	600
Frequency (MHz):	1880

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.00	H	-	-	-76.05	6.37	37.32	-57.94	-13.00	-44.94
5640.00	H	-	-	-75.24	8.38	40.14	-55.12	-13.00	-42.12
7520.00	H	-	-	-76.38	12.20	42.82	-52.44	-13.00	-39.44

Table 7-17. Radiated Spurious Data (CDMA PCS – Mid Channel)

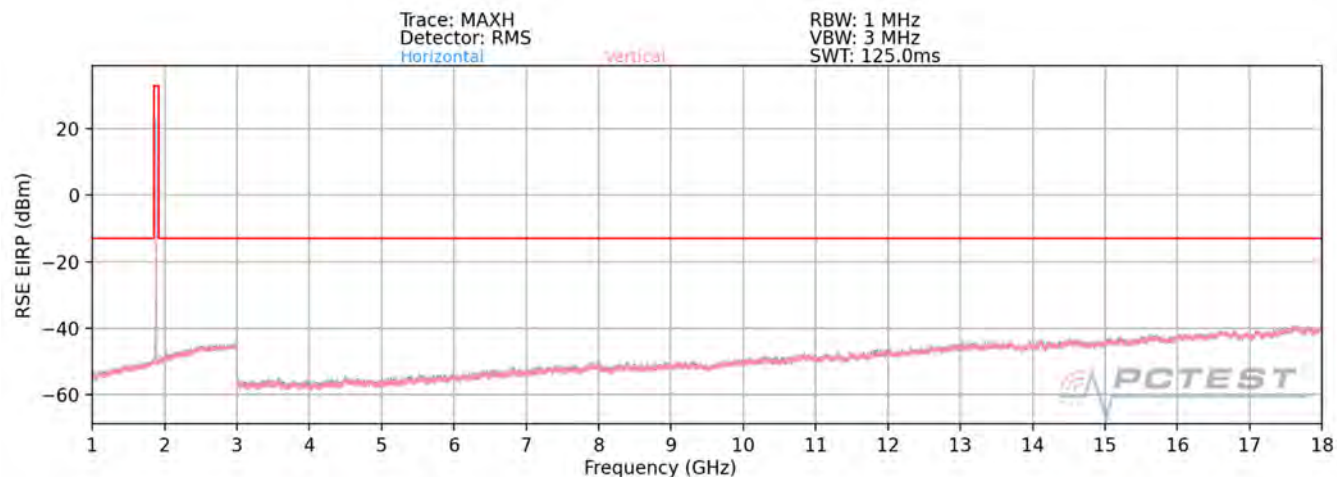
FCC ID: A3LSMG998U	PCTEST Proud to be part of	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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Mode:	CDMA								
Channel:	1175								
Frequency (MHz):	1908.75								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3817.50	H	-	-	-75.88	6.18	37.30	-57.95	-13.00	-44.95
5726.25	H	-	-	-75.48	8.22	39.74	-55.52	-13.00	-42.52
7635.00	H	-	-	-76.52	12.18	42.66	-52.60	-13.00	-39.60

Table 7-18. Radiated Spurious Data (CDMA PCS – High Channel)

FCC ID: A3LSMG998U			PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
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LTE Band 25/2



Plot 7-347. Radiated Spurious Plot (LTE Band 25/2)

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.0	V	-	-	-75.89	5.54	36.65	-58.61	-13.00	-45.61
5580.0	V	-	-	-76.41	7.96	38.55	-56.71	-13.00	-43.71
7440.0	V	-	-	-77.58	12.53	41.95	-53.30	-13.00	-40.30

Table 7-19. Radiated Spurious Data (LTE Band 25/2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.0	V	-	-	-76.41	6.48	37.07	-58.19	-13.00	-45.19
5647.5	V	-	-	-75.89	8.28	39.39	-55.87	-13.00	-42.87
7530.0	V	-	-	-76.11	12.13	43.02	-52.24	-13.00	-39.24

Table 7-20. Radiated Spurious Data (LTE Band 25/2 – Mid Channel)

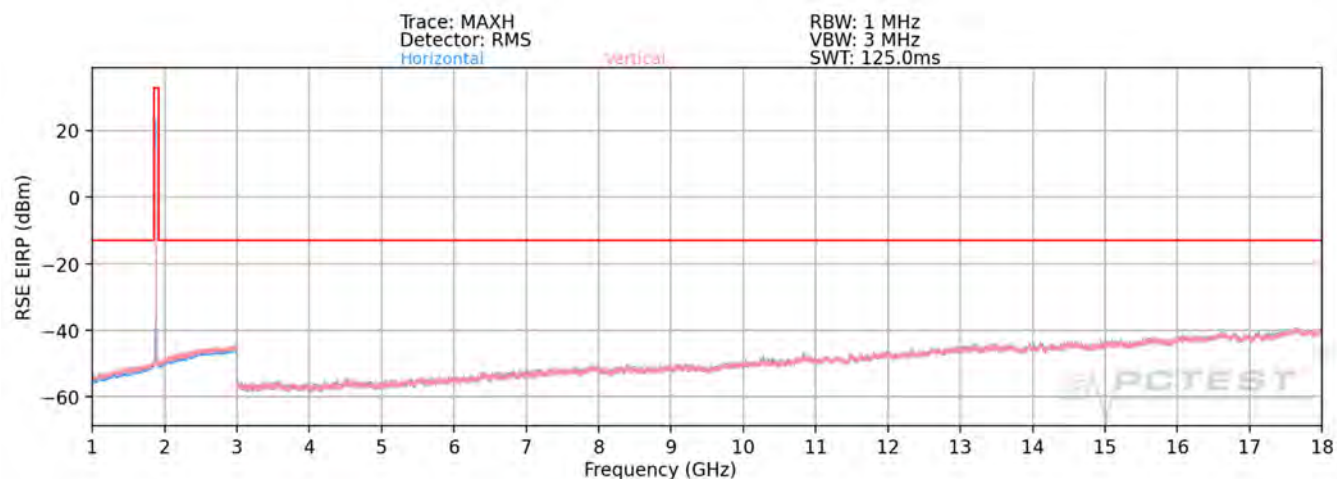
FCC ID: A3LSMG998U	PCTEST Proud to be part of	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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Bandwidth (MHz):	20								
Frequency (MHz):	1905.0								
RB / Offset:	1 / 50								
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	V	-	-	-76.56	6.33	36.77	-58.49	-13.00	-45.49
5715.00	V	-	-	-76.01	8.32	39.31	-55.95	-13.00	-42.95
7620.00	V	-	-	-77.00	12.47	42.47	-52.79	-13.00	-39.79

Table 7-21. Radiated Spurious Data (LTE Band 25/2 – High Channel)

FCC ID: A3LSMG998U			PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
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NR Band n25/n2 – ANT A



Plot 7-348. Radiated Spurious Plot (NR Band n25/n2)

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
RB / Offset:	1 / 50
Mode:	SA

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.0	V	-	-	-76.71	5.54	35.83	-59.43	-13.00	-46.43
5580.0	V	-	-	-76.38	7.96	38.58	-56.68	-13.00	-43.68
7440.0	V	-	-	-78.25	12.53	41.28	-53.97	-13.00	-40.97

Table 7-22. Radiated Spurious Data (NR Band n25/n2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1880.0
RB / Offset:	1 / 53
Mode:	SA

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	V	-	-	-76.51	6.37	36.86	-58.40	-13.00	-45.40
5640.0	V	107	25	-76.58	8.38	38.80	-56.46	-13.00	-43.46
7520.0	V	-	-	-78.70	12.20	40.50	-54.76	-13.00	-41.76
9400.0	V	-	-	-79.50	14.49	41.99	-53.27	-13.00	-40.27

Table 7-23. Radiated Spurious Data (NR Band n25/n2 – Mid Channel)

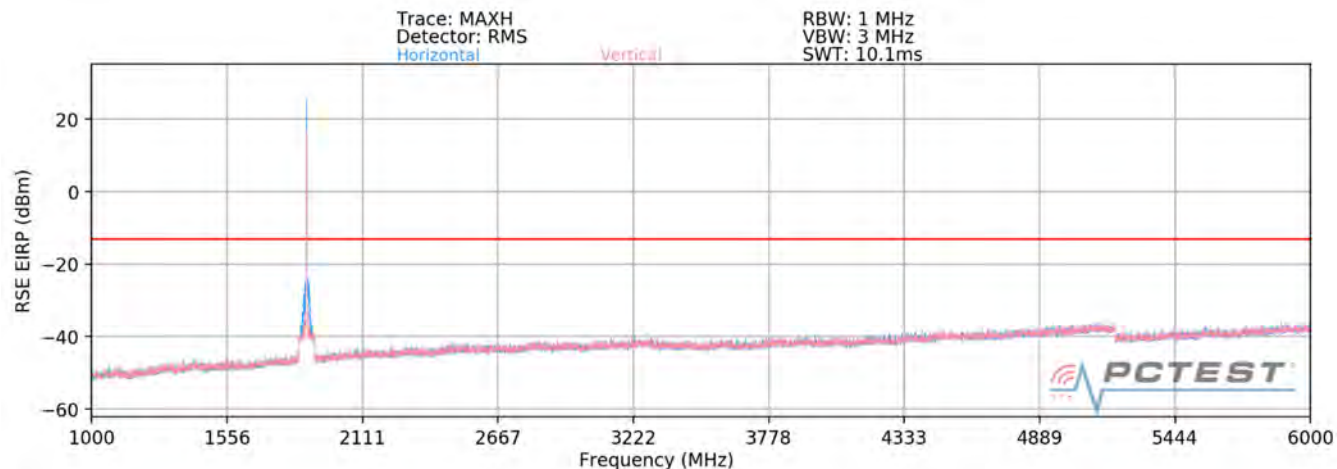
FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset	Page 228 of 241

Bandwidth (MHz):	20
Frequency (MHz):	1900.0
RB / Offset:	1 / 50
Mode:	SA

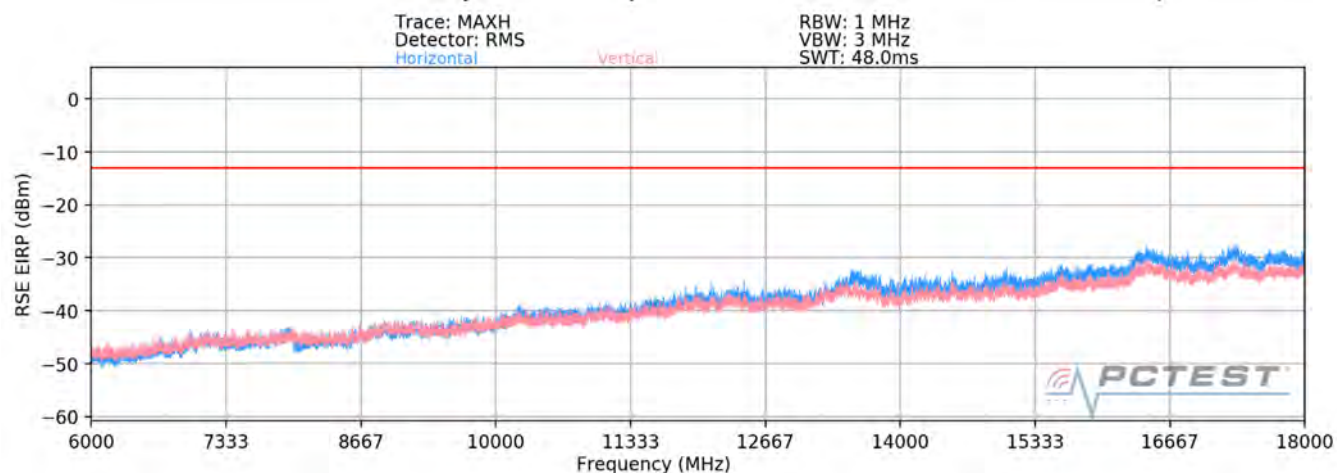
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3800.0	V	-	-	-77.46	6.49	36.03	-59.23	-13.00	-46.23
5700.0	V	-	-	-76.69	8.26	38.57	-56.69	-13.00	-43.69
7600.0	V	-	-	-77.81	12.80	41.99	-53.26	-13.00	-40.26

Table 7-24. Radiated Spurious Data (NR Band n25/n2 – High Channel)

FCC ID: A3LSMG998U		PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
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Plot 7-349. Radiated Spurious Plot (NR Band n2 – EN-DC Anchor B12 1-6GHz)



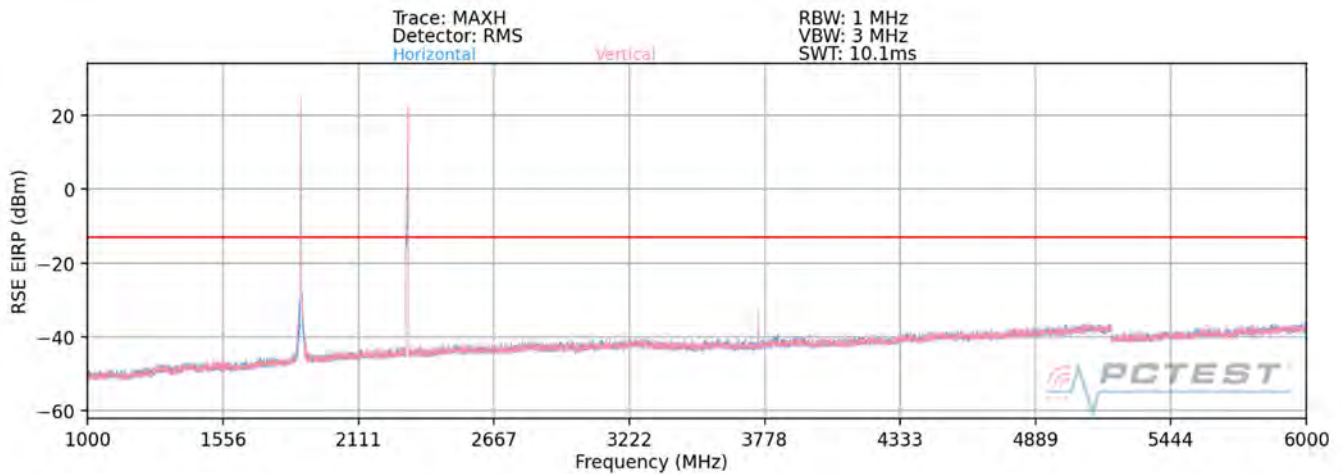
Plot 7-350. Radiated Spurious Plot (NR Band n2 – EN-DC Anchor B12 6-18GHz)

Bandwidth (MHz):	20
Frequency (MHz):	1880.0
RB / Offset:	1 / 53
Mode:	EN-DC
Anchor Band:	B12

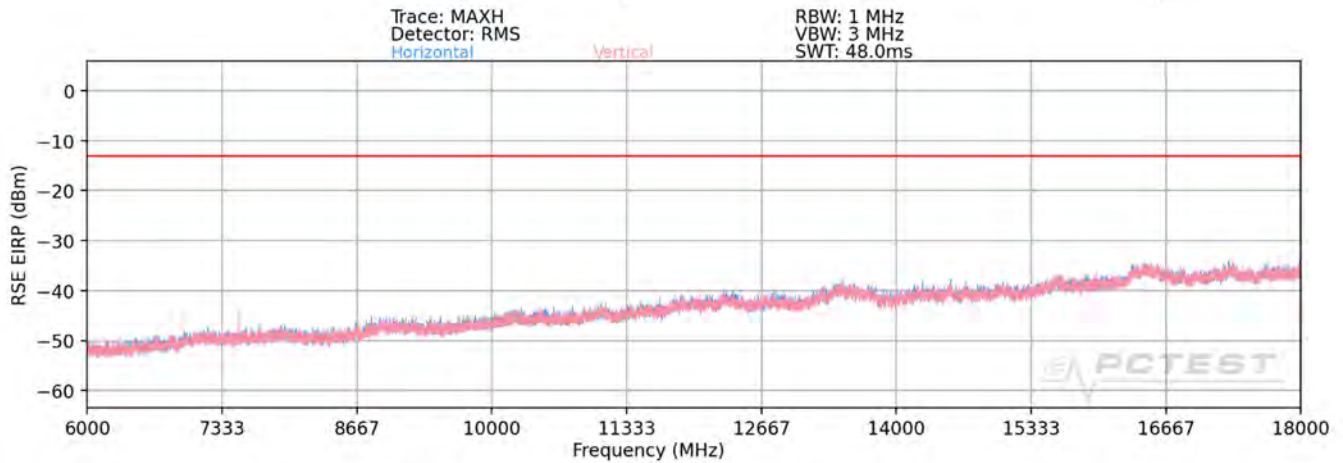
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1642.0	H	-	-	-67.54	9.98	49.44	-45.82	-13.00	-32.82
2817.5	H	-	-	-67.71	15.19	54.48	-40.78	-13.00	-27.78
3057.5	H	-	-	-67.82	16.05	55.23	-40.02	-13.00	-27.02

Table 7-25. Radiated Spurious Data (NR Band n2 – Mid Channel) EN-DC – B12 Anchor

FCC ID: A3LSMG998U	PCTEST PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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Plot 7-351. Radiated Spurious Plot (NR Band n2 – EN-DC Anchor B30 1-6GHz)



Plot 7-352. Radiated Spurious Plot (NR Band n2 – EN-DC Anchor B30 6-18GHz)

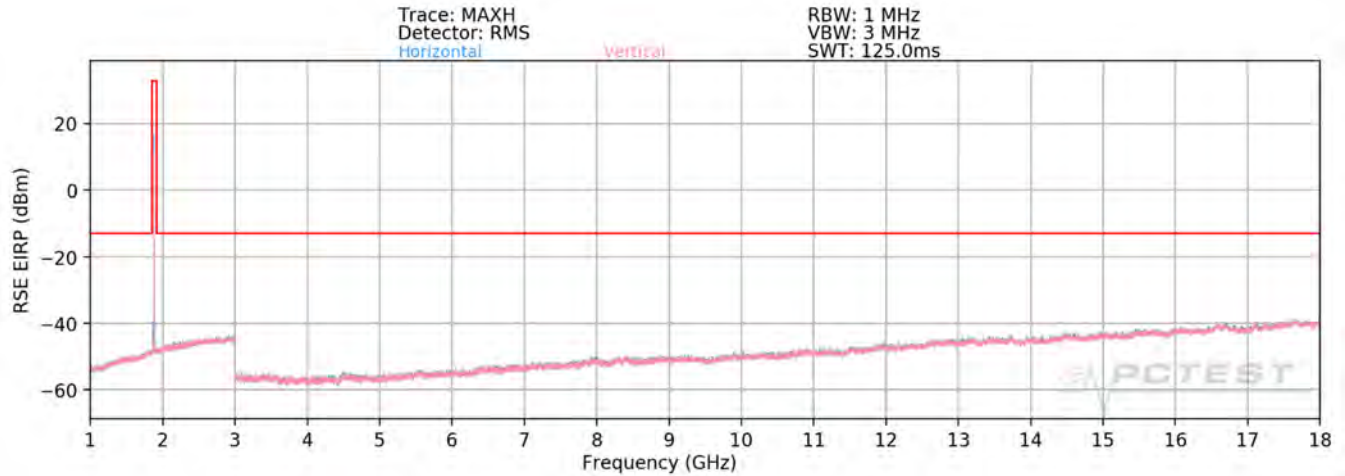
Bandwidth (MHz):	20
Frequency (MHz):	1880.0
RB / Offset:	1 / 53
Mode:	EN-DC
Anchor Band:	B30

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1020.0	V	-	-	-69.35	6.75	44.40	-50.85	-13.00	-37.85
1450.0	V	-	-	-71.01	9.16	45.15	-50.11	-13.00	-37.11
2740.0	V	-	-	-71.07	14.67	50.60	-44.65	-13.00	-31.65
3749.0	V	130	333	-60.20	17.20	64.00	-31.26	-13.00	-18.26

Table 7-26. Radiated Spurious Data (NR Band n2 – Mid Channel) EN-DC – B30 Anchor

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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NR Band n25/n2 – ANT E



Plot 7-353. Radiated Spurious Plot (NR Band n25/n2)

Bandwidth (MHz):	20
Frequency (MHz):	1860.0
RB / Offset:	1 / 53
Mode:	SA

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.0	H	-	-	-77.99	5.33	34.34	-60.92	-13.00	-47.92
5580.0	H	-	-	-78.19	7.92	36.73	-58.53	-13.00	-45.53
7440.0	H	-	-	-81.08	12.48	38.40	-56.85	-13.00	-43.85

Table 7-27. Radiated Spurious Data (NR Band n25/n2 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	1880.0
RB / Offset:	1 / 53
Mode:	SA

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.0	H	-	-	-77.17	6.14	35.97	-59.29	-13.00	-46.29
5640.0	H	-	-	-79.66	8.08	35.42	-59.84	-13.00	-46.84
7520.0	H	-	-	-81.28	12.45	38.17	-57.08	-13.00	-44.08

Table 7-28. Radiated Spurious Data (NR Band n25/n2 – Mid Channel)

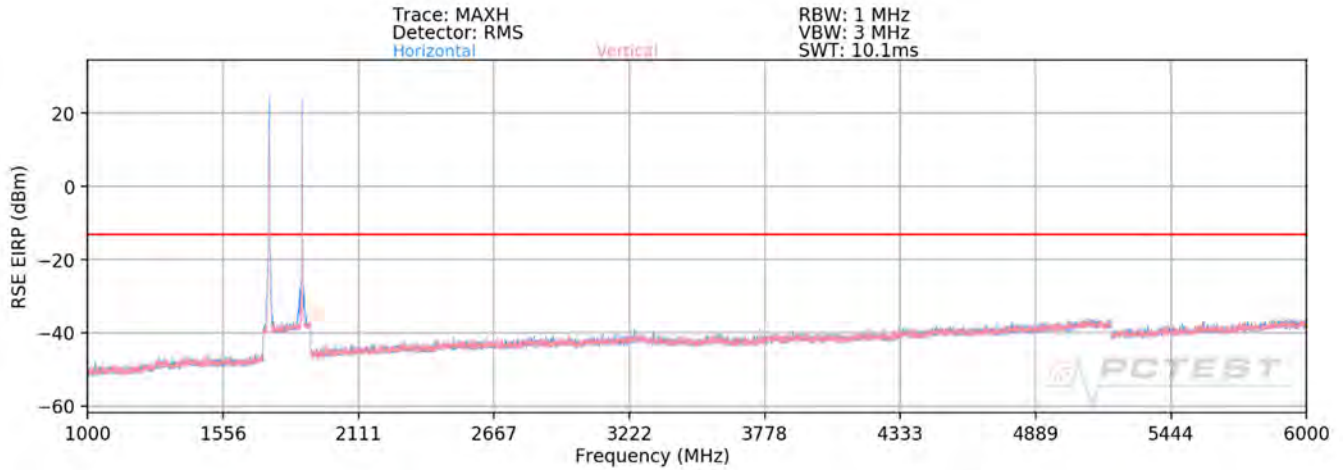
FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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Bandwidth (MHz):	20
Frequency (MHz):	1900.0
RB / Offset:	1 / 53
Mode:	SA

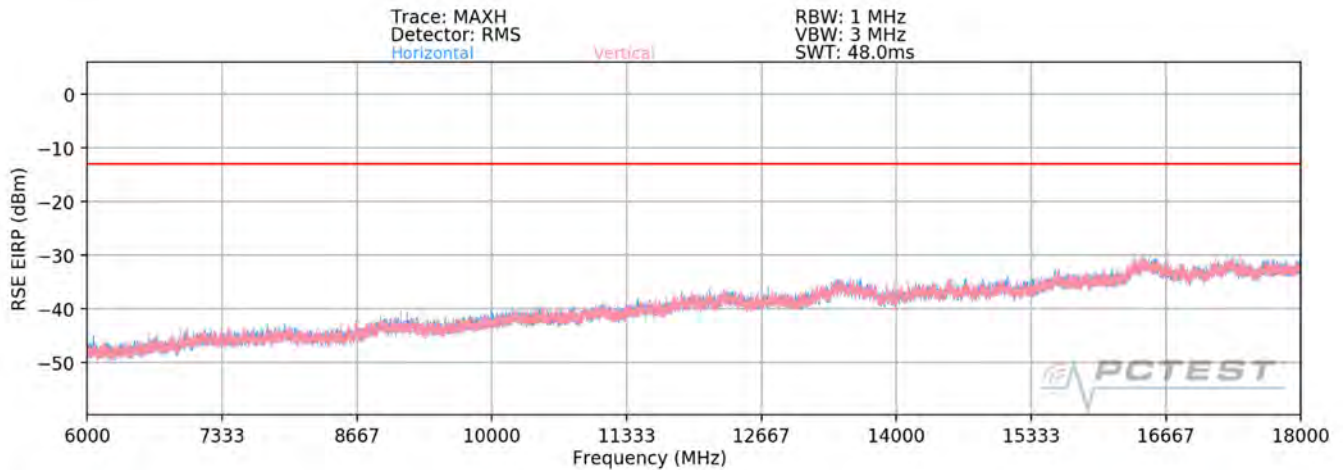
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3800.0	H	-	-	-79.01	6.35	34.34	-60.92	-13.00	-47.92
5700.0	H	-	-	-79.93	8.00	35.07	-60.18	-13.00	-47.18
7600.0	H	-	-	-80.88	12.49	38.61	-56.65	-13.00	-43.65

Table 7-29. Radiated Spurious Data (NR Band n25/n2 – High Channel)

FCC ID: A3LSMG998U	 PART 24 MEASUREMENT REPORT 		Approved by: Quality Manager
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Plot 7-354. Radiated Spurious Plot (NR Band n25 – EN-DC Anchor B66 1-6GHz)



Plot 7-355. Radiated Spurious Plot (NR Band n25 – EN-DC Anchor B66 6-18GHz)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50
Mode:	EN-DC
Anchor Band:	B66

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1607.5	H	-	-	-69.86	10.04	47.18	-48.08	-13.00	-35.08
2020.0	H	-	-	-70.00	12.64	49.64	-45.61	-13.00	-32.61
2157.5	H	-	-	-69.33	13.26	50.93	-44.33	-13.00	-31.33
2295.0	H	-	-	-71.21	13.70	49.49	-45.77	-13.00	-32.77

Table 7-30. Radiated Spurious Data (NR Band n25 – Mid Channel) EN-DC – B66 Anchor

FCC ID: A3LSMG998U	PART 24 MEASUREMENT REPORT		Approved by: Quality Manager
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7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI/TIA-603-E-2016. 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.

Test Procedure Used

ANSI/TIA-603-E-2016

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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GSM/GPRS PCS

Operating Frequency (Hz):	1,880,000,000
Ref. Voltage (VDC):	4.18
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.18	- 30	1,880,000,365	566	0.0000301
		- 20	1,880,000,120	321	0.0000171
		- 10	1,879,999,759	-40	-0.0000021
		0	1,880,000,140	341	0.0000181
		+ 10	1,879,999,916	117	0.0000062
		+ 20 (Ref)	1,879,999,799	0	0.0000000
		+ 30	1,879,999,868	69	0.0000037
		+ 40	1,879,999,645	-154	-0.0000082
		+ 50	1,879,999,975	176	0.0000094
Battery Endpoint	2.98	+ 20	1,879,999,988	189	0.0000101

Table 7-31. GSM/GPRS PCS Frequency Stability Data

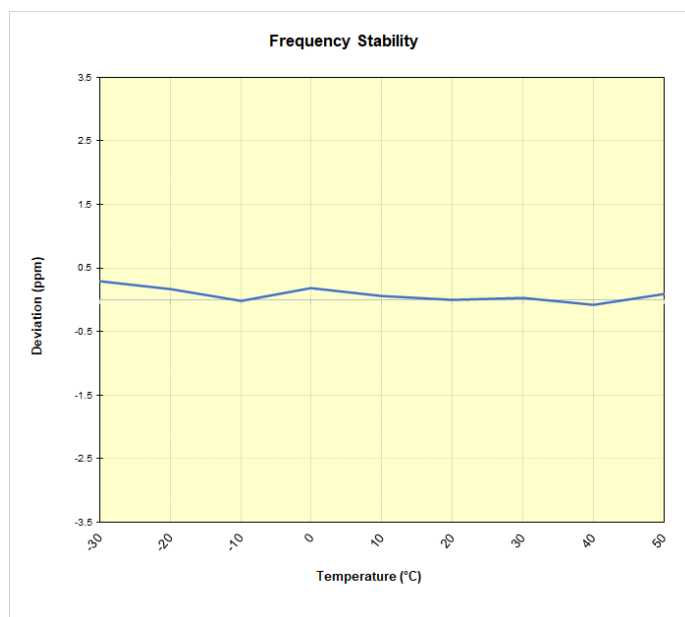


Figure 7-8. GSM/GPRS PCS Frequency Stability Chart

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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WCDMA PCS

Operating Frequency (Hz):	1,880,000,000
Ref. Voltage (VDC):	4.18
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.18	- 30	1,732,600,051	236	0.0000136
		- 20	1,732,599,922	107	0.0000062
		- 10	1,732,600,046	231	0.0000133
		0	1,732,600,108	293	0.0000169
		+ 10	1,732,599,950	135	0.0000078
		+ 20 (Ref)	1,732,599,815	0	0.0000000
		+ 30	1,732,600,045	230	0.0000133
		+ 40	1,732,599,998	183	0.0000106
		+ 50	1,732,599,785	-30	-0.0000017
Battery Endpoint	2.98	+ 20	1,732,599,984	169	0.0000098

Table 7-32. WCDMA PCS Frequency Stability Data

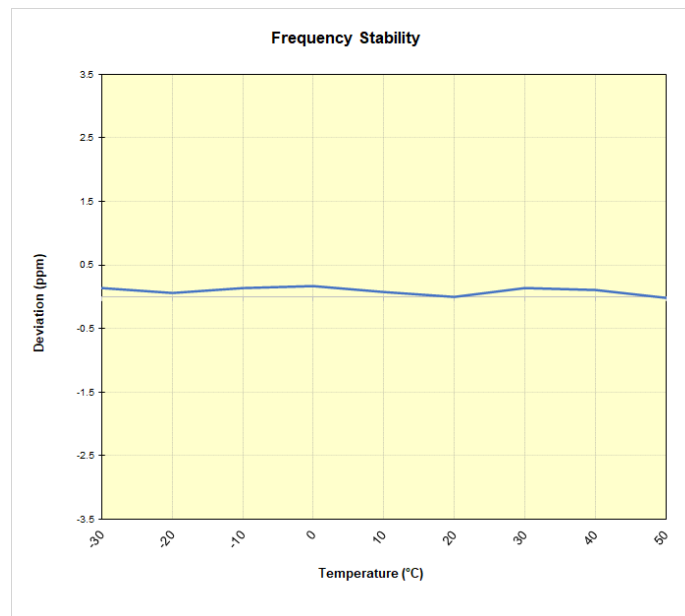


Figure 7-9. WCDMA PCS Frequency Stability Chart

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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CDMA PCS

Operating Frequency (Hz):	1,880,000,000
Ref. Voltage (VDC):	4.18
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.18	- 30	1,879,999,886	50	0.0000027
		- 20	1,879,999,983	147	0.0000078
		- 10	1,880,000,089	253	0.0000135
		0	1,880,000,016	180	0.0000096
		+ 10	1,879,999,973	137	0.0000073
		+ 20 (Ref)	1,879,999,836	0	0.0000000
		+ 30	1,880,000,111	275	0.0000146
		+ 40	1,880,000,100	264	0.0000140
		+ 50	1,879,999,748	-88	-0.0000047
Battery Endpoint	2.98	+ 20	1,880,000,039	203	0.0000108

Table 7-33. CDMA PCS Frequency Stability Data

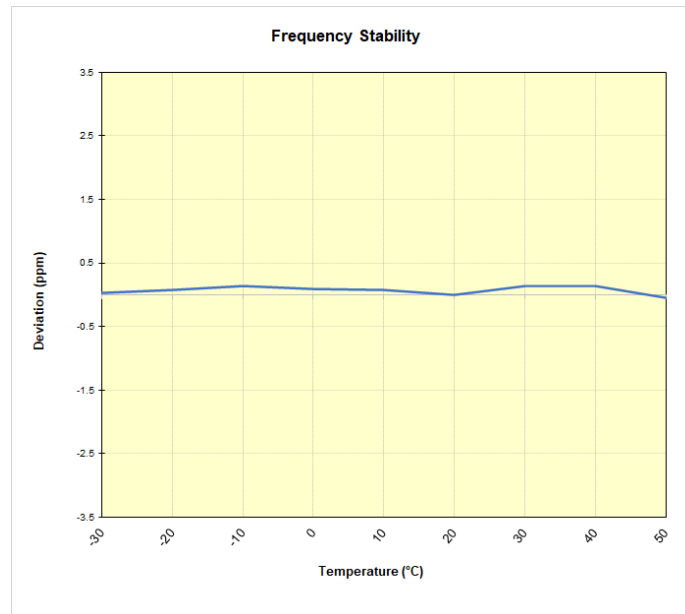


Figure 7-10. CDMA PCS Frequency Stability Chart

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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LTE Band 25/2

Operating Frequency (Hz):	1,882,500,000
Ref. Voltage (VDC):	4.18
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.18	- 30	1,882,500,136	307	0.0000163
		- 20	1,882,499,912	83	0.0000044
		- 10	1,882,499,909	80	0.0000042
		0	1,882,499,535	-294	-0.0000156
		+ 10	1,882,500,370	541	0.0000287
		+ 20 (Ref)	1,882,499,829	0	0.0000000
		+ 30	1,882,499,994	165	0.0000088
		+ 40	1,882,499,763	-66	-0.0000035
		+ 50	1,882,499,670	-159	-0.0000084
Battery Endpoint	2.98	+ 20	1,882,499,870	41	0.0000022

Table 7-34. LTE Band 25/2 Frequency Stability Data

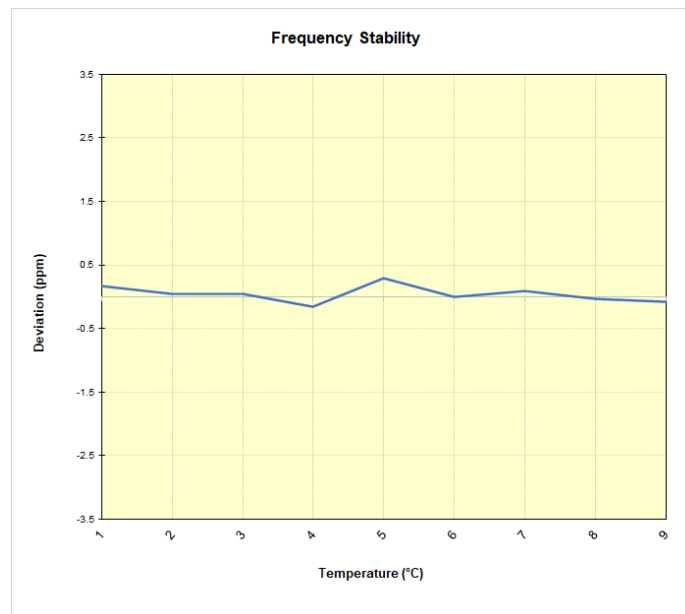


Figure 7-11. LTE Band 25/2 Frequency Stability Chart

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
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NR Band n25/n2

Operating Frequency (Hz):	1,880,000,000
Ref. Voltage (VDC):	4.18
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.18	- 30	1,879,999,746	-223	-0.0000119
		- 20	1,879,999,736	-233	-0.0000124
		- 10	1,879,999,920	-49	-0.0000026
		0	1,880,000,061	92	0.0000049
		+ 10	1,879,999,838	-131	-0.0000070
		+ 20 (Ref)	1,879,999,969	0	0.0000000
		+ 30	1,880,000,260	291	0.0000155
		+ 40	1,880,000,110	141	0.0000075
		+ 50	1,879,999,995	26	0.0000014
Battery Endpoint	2.98	+ 20	1,880,000,063	94	0.0000050

Table 7-35. NR Band n25/n2 Frequency Stability Data

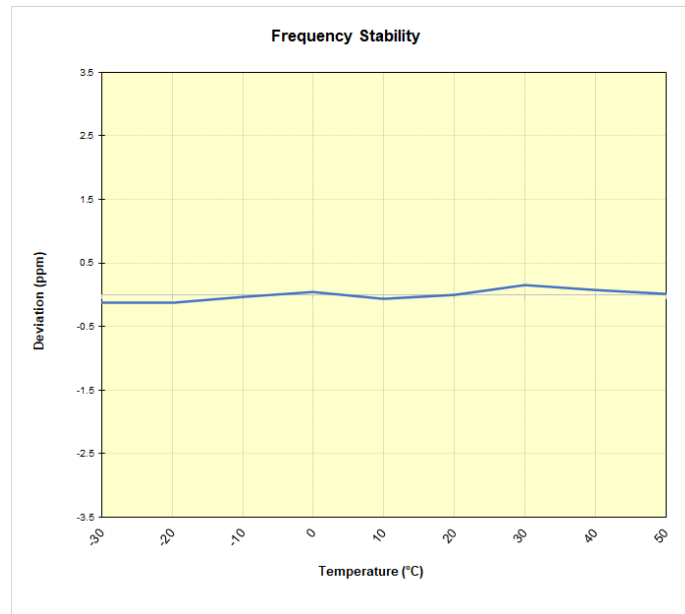


Figure 7-12. NR Band n25/n2 Frequency Stability Chart

FCC ID: A3LSMG998U	PCTEST Proud to be part of Samsung	PART 24 MEASUREMENT REPORT	SAMSUNG	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset		Page 240 of 241

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Samsung **Portable Handset** **FCC ID: A3LSMG998U** complies with all the requirements of Part 24 of the FCC rules.

FCC ID: A3LSMG998U	 PART 24 MEASUREMENT REPORT 	Approved by: Quality Manager
Test Report S/N: 1M2009230152-19.A3L	Test Dates: 9/23/2020 – 12/11/2020	EUT Type: Portable Handset
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