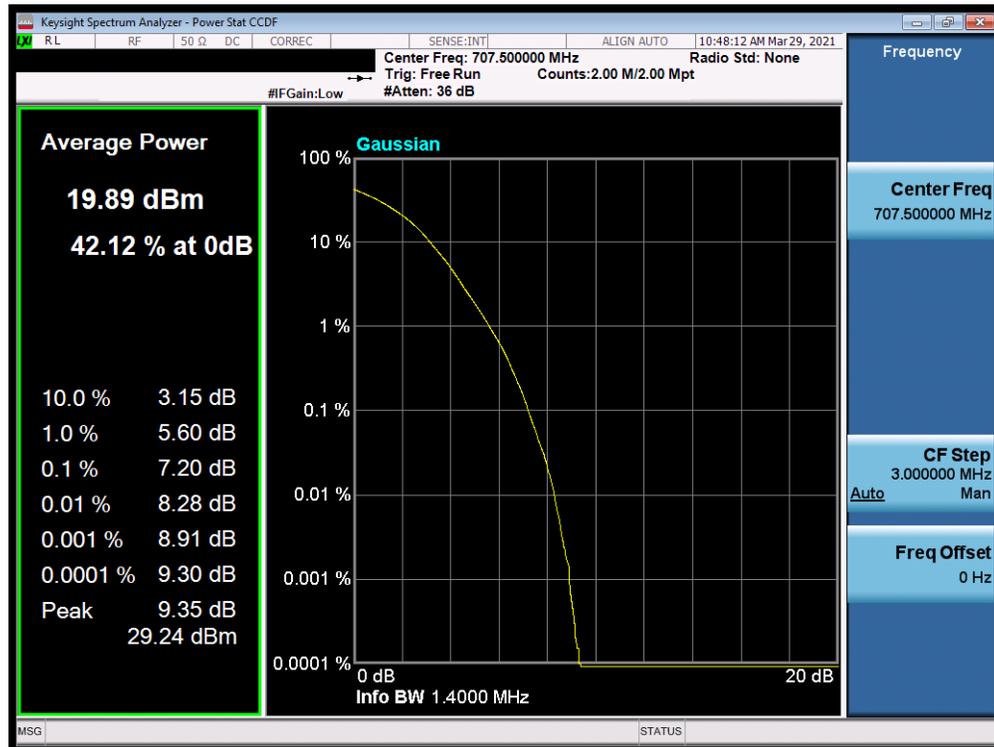


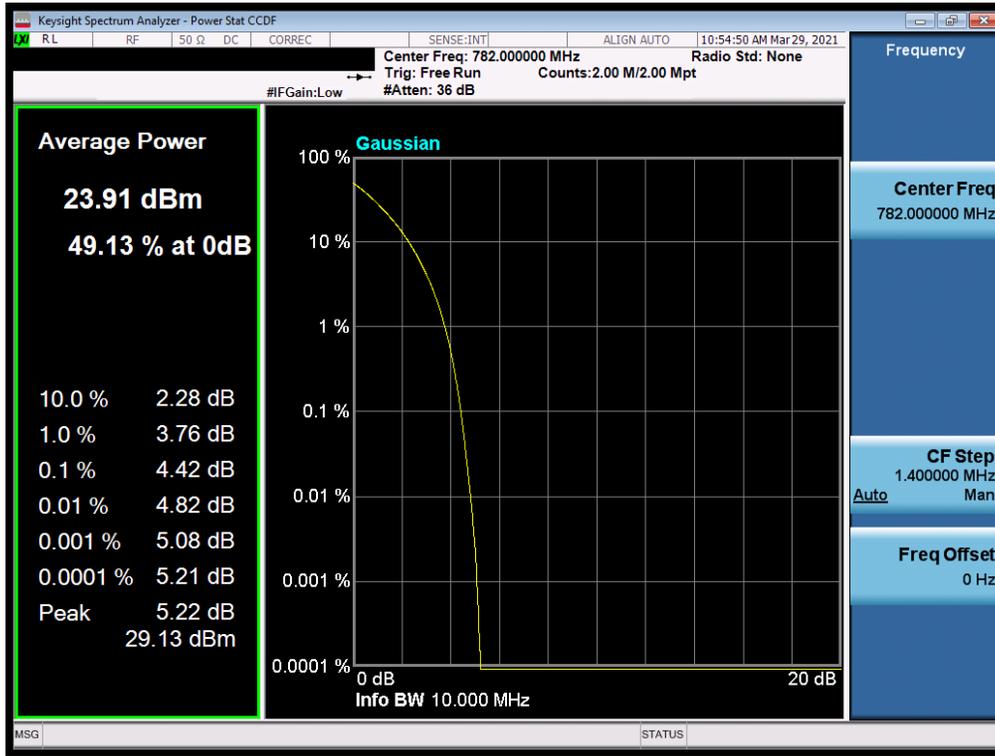
Plot 7-323. PAR Plot (LTE Band 12 - 1.4MHz QPSK - Full RB)



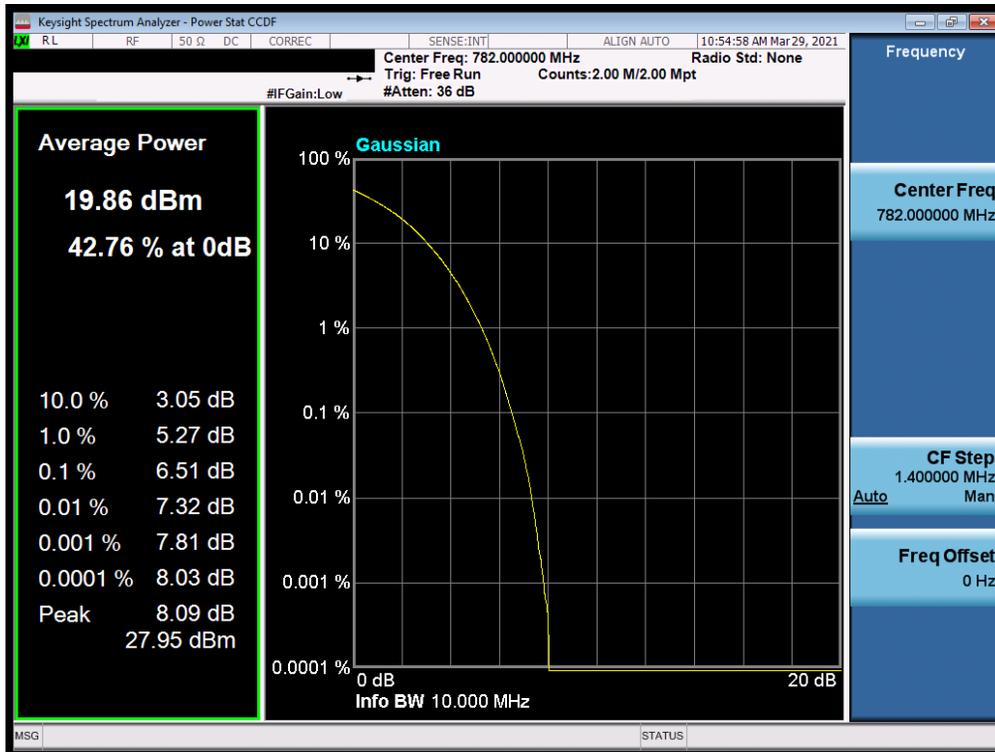
Plot 7-324. PAR Plot (LTE Band 12 - 1.4MHz 256-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 189 of 276

LTE Band 13

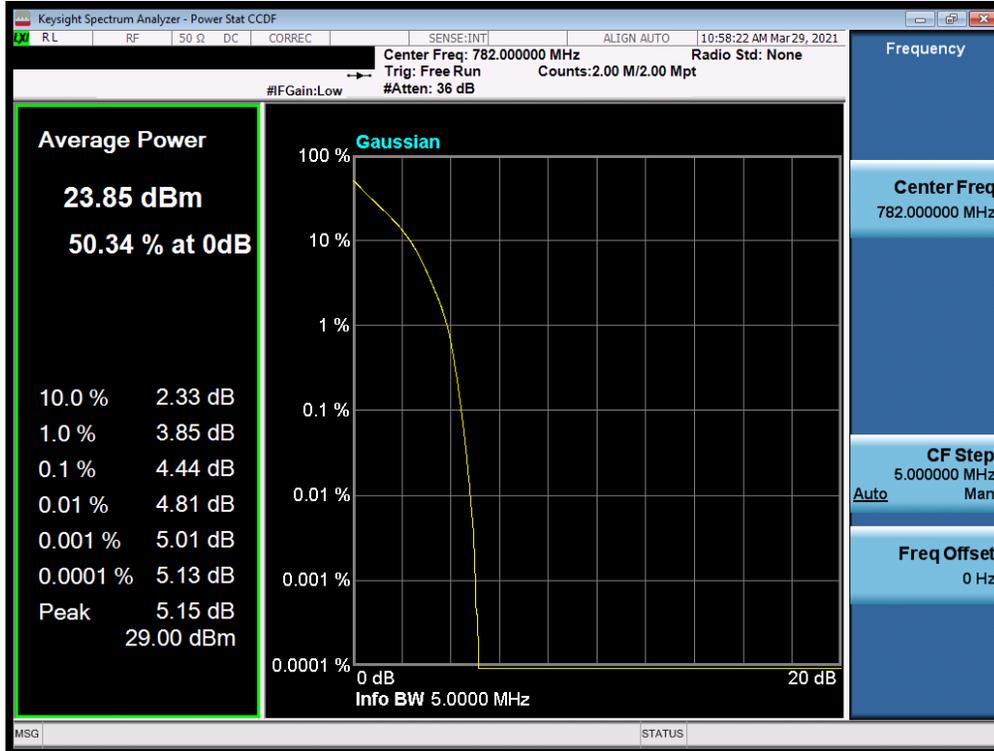


Plot 7-325. PAR Plot (LTE Band 13 - 10MHz QPSK - Full RB)

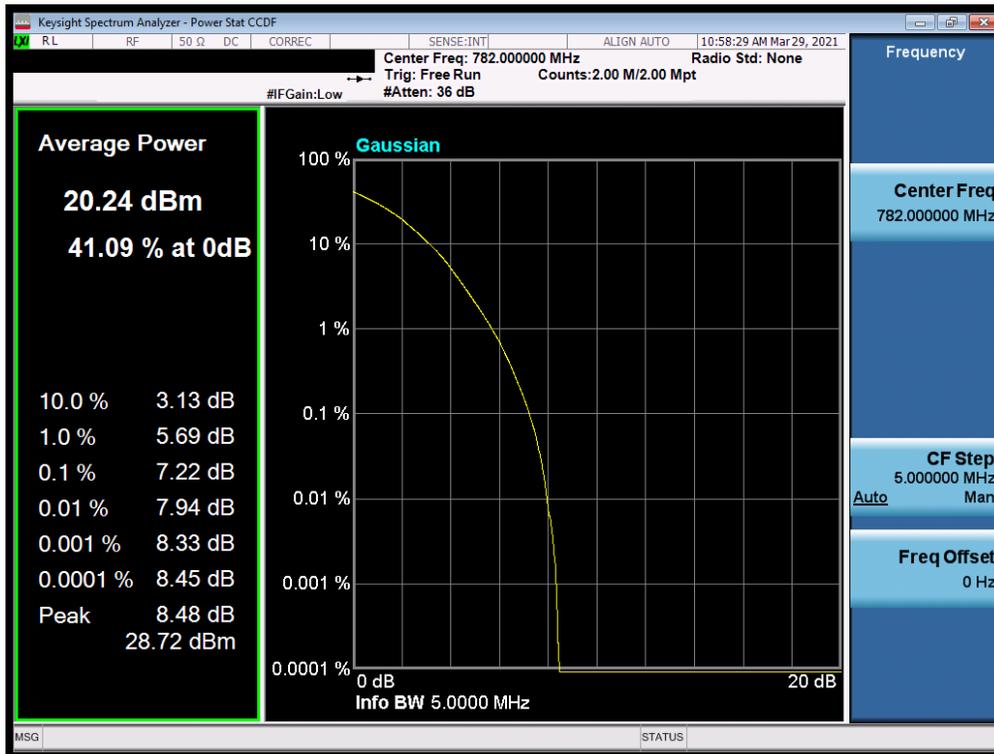


Plot 7-326. PAR Plot (LTE Band 13 - 10MHz 256-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 190 of 276



Plot 7-327. PAR Plot (LTE Band 13 - 5MHz QPSK - Full RB)



Plot 7-328. PAR Plot (LTE Band 13 - 5MHz 256-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 191 of 276

NR Band n71



FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 192 of 276



Plot 7-331. PAR Plot (NR Band n71 - 20.0MHz CP-OFDM 256-QAM - Full RB)



Plot 7-332. PAR Plot (NR Band n71 - 15.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 193 of 276



FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 194 of 276

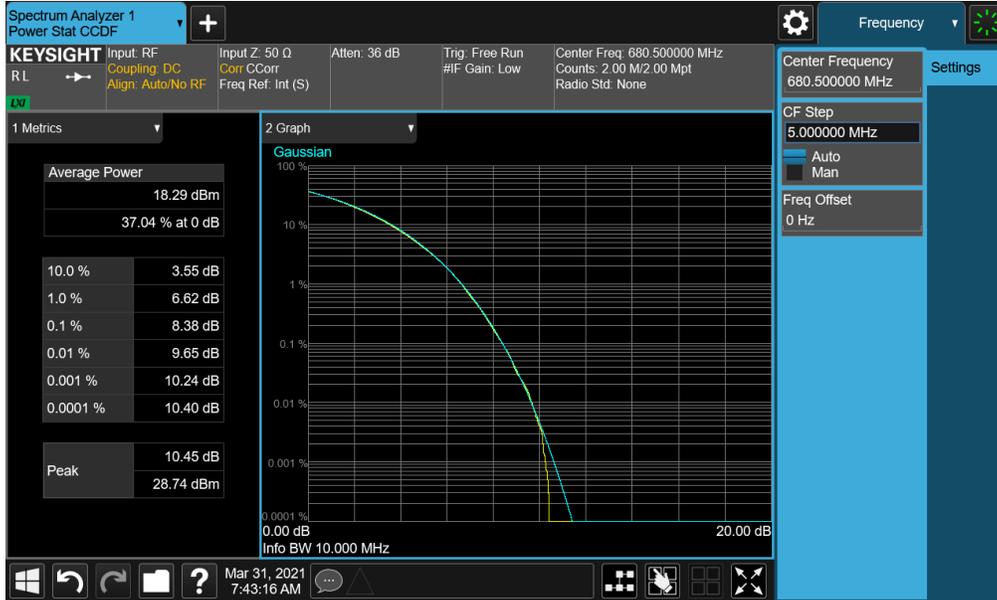


Plot 7-335. PAR Plot (NR Band n71 - 10.0MHz DFT-s-OFDM BPSK - Full RB)



Plot 7-336. PAR Plot (NR Band n71 - 10.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 195 of 276



Plot 7-337. PAR Plot (NR Band n71 - 10.0MHz CP-OFDM 256-QAM - Full RB)



Plot 7-338. PAR Plot (NR Band n71 - 5.0MHz DFT-s-OFDM BPSK - Full RB)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset	Page 196 of 276	



Plot 7-339. PAR Plot (NR Band n71 - 5.0MHz CP-OFDM QPSK - Full RB)



Plot 7-340. PAR Plot (NR Band n71 - 5.0MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 197 of 276

NR Band n12



Plot 7-341. PAR Plot (NR Band n12 - 15.0MHz DFT-s-OFDM BPSK - Full RB)



Plot 7-342. PAR Plot (NR Band n12 - 15.0MHz CP-OFDM QPSK - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 198 of 276



FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 199 of 276

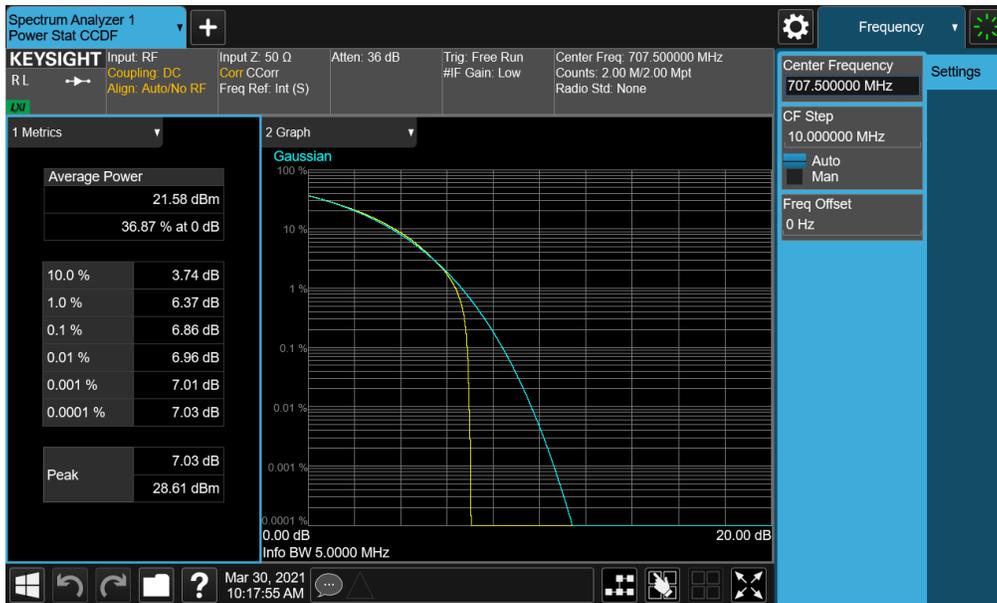
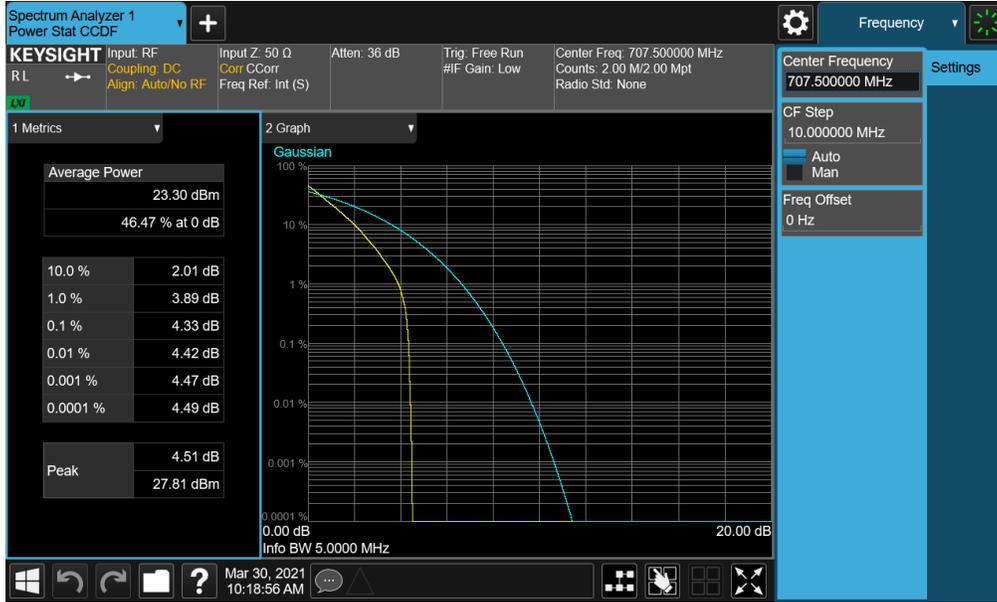


Plot 7-345. PAR Plot (NR Band n12 - 10.0MHz CP-OFDM QPSK - Full RB)



Plot 7-346. PAR Plot (NR Band n12 - 10.0MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 200 of 276



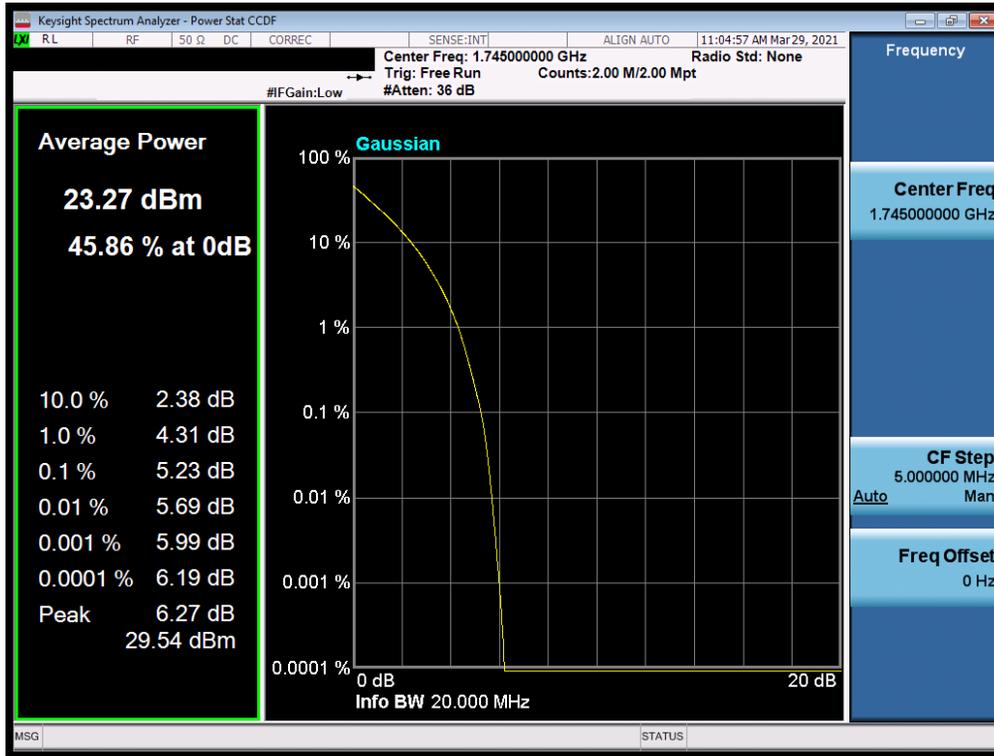
FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 201 of 276



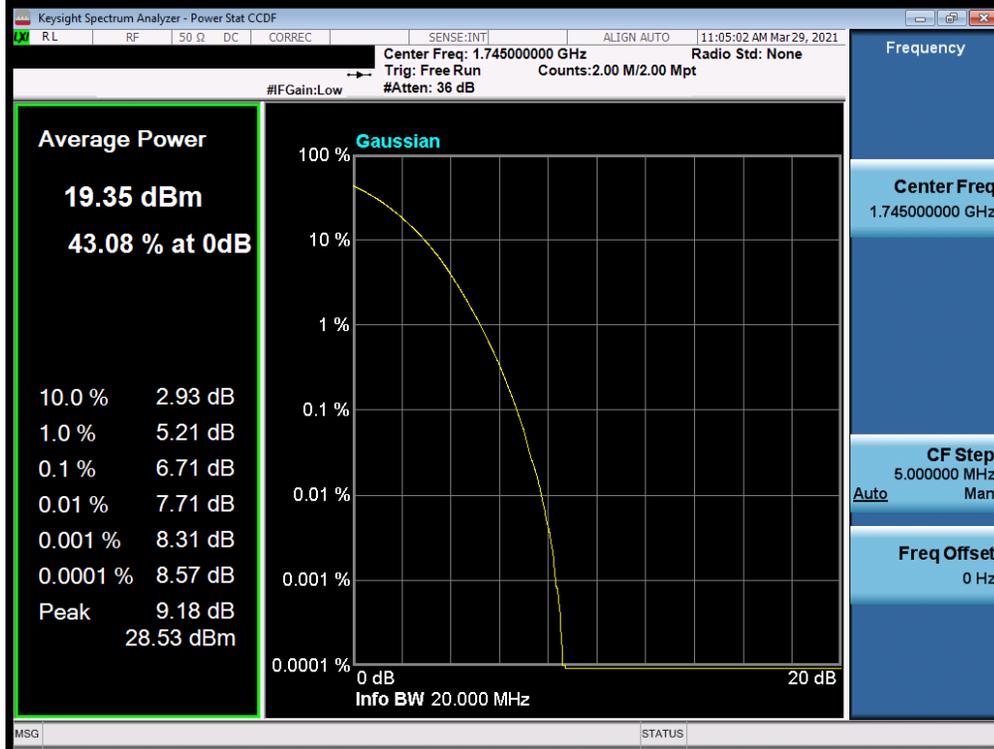
Plot 7-349. PAR Plot (NR Band n12 - 5.0MHz CP-OFDM 256-QAM - Full RB)

FCC ID: A3LSMF926U		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset	Page 202 of 276	

LTE Band 66/4

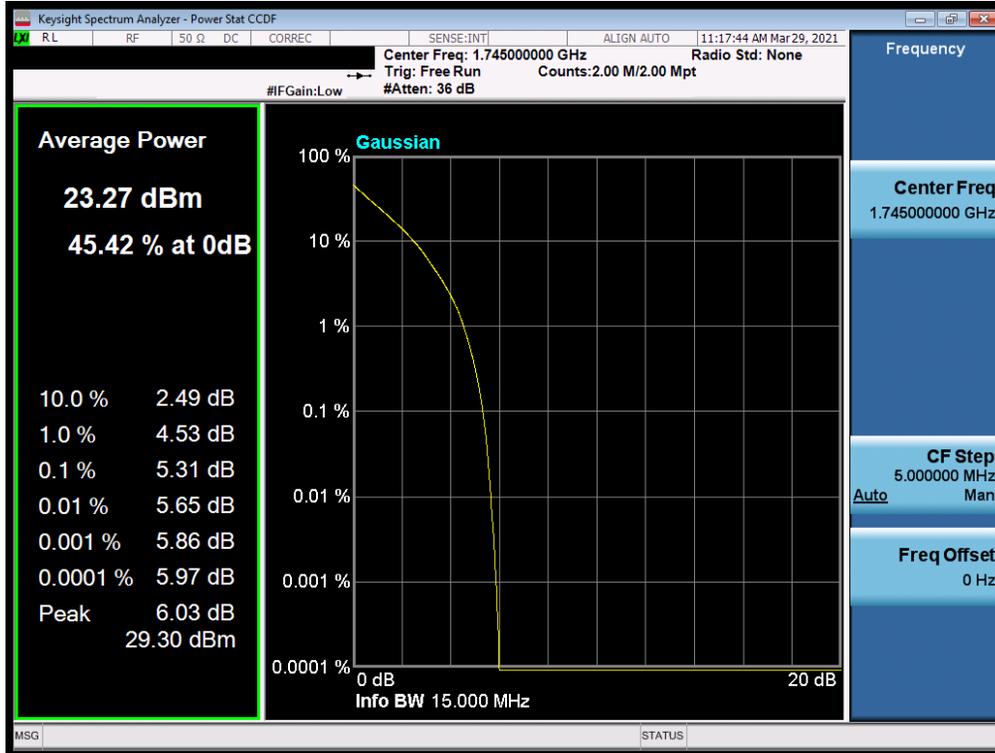


Plot 7-350. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB)

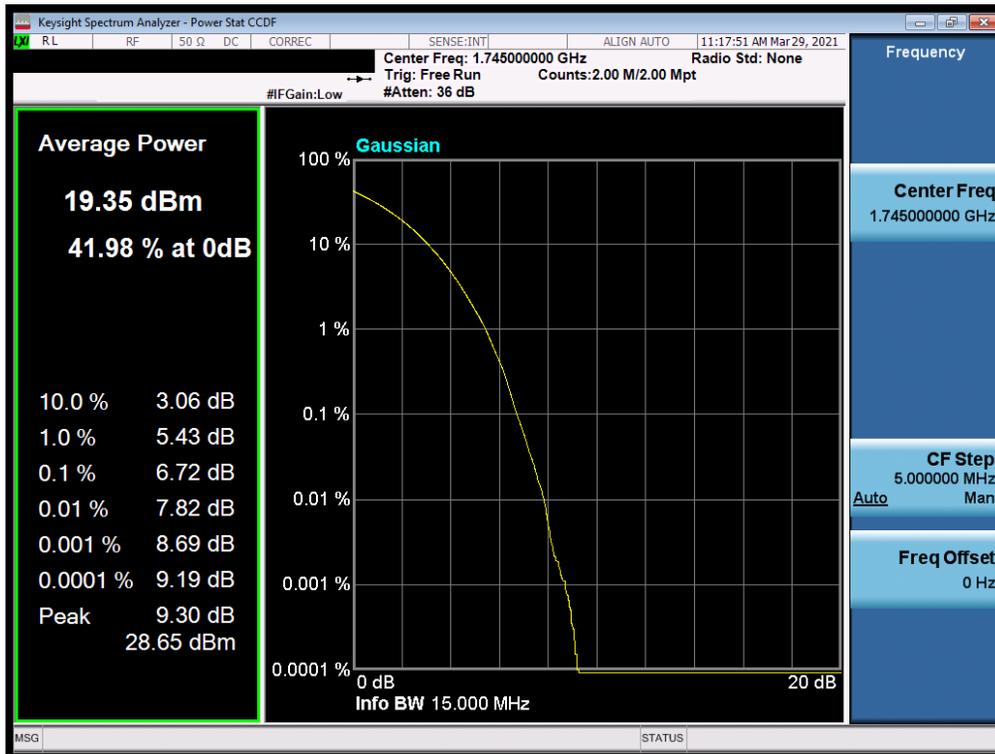


Plot 7-351. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 203 of 276

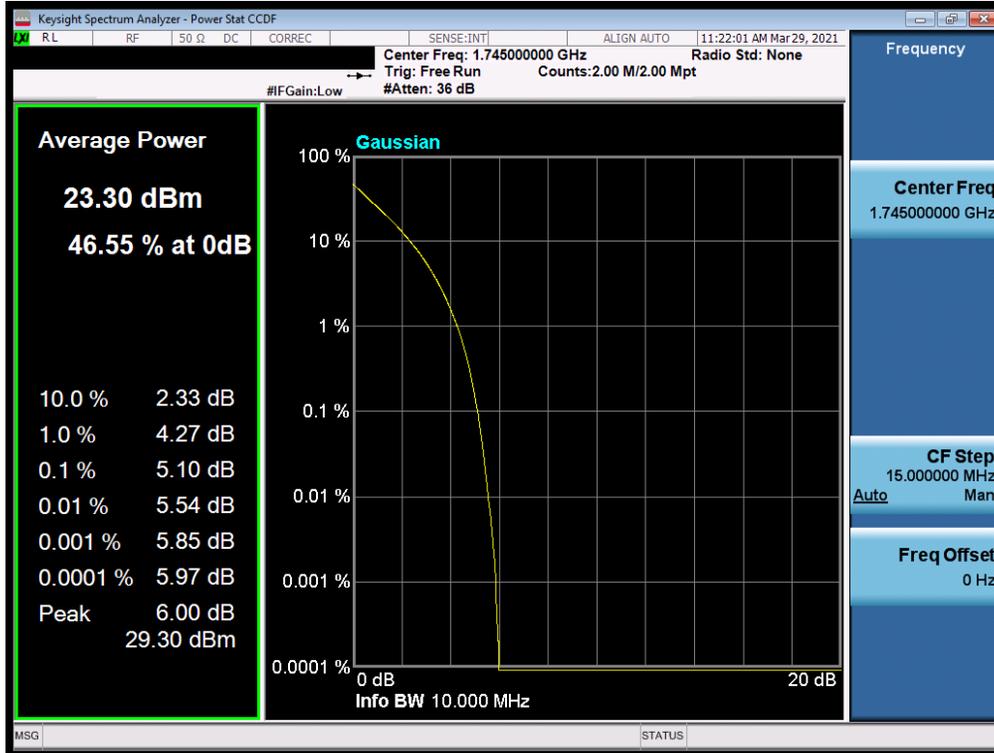


Plot 7-352. PAR Plot (LTE Band 66/4 - 15MHz QPSK - Full RB)

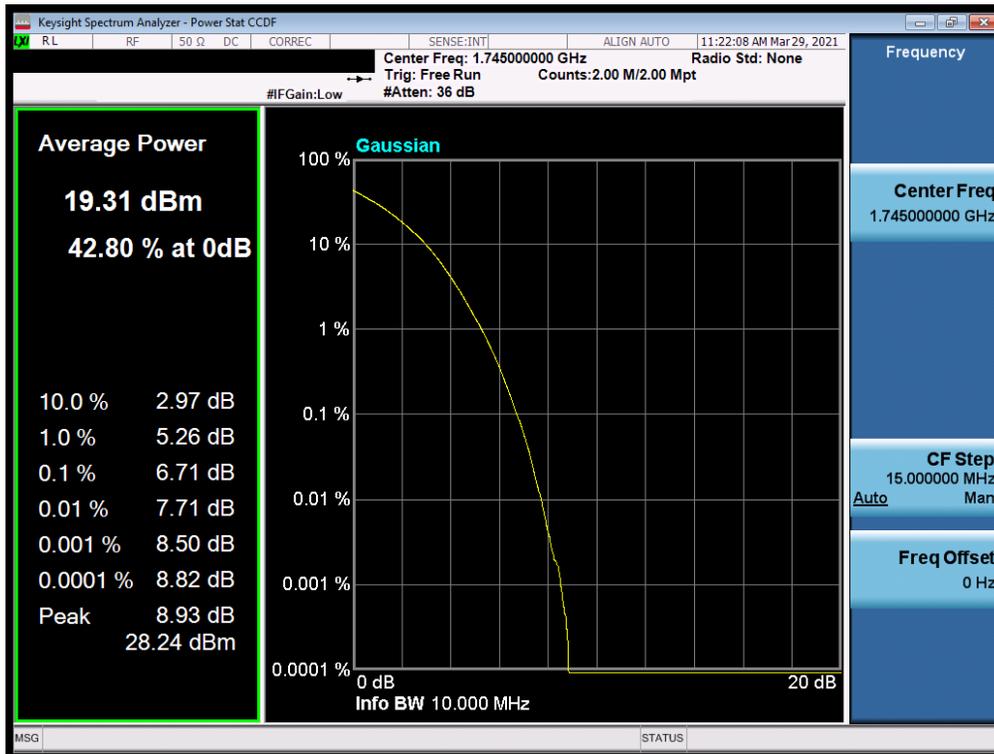


Plot 7-353. PAR Plot (LTE Band 66/4 - 15MHz 256-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 204 of 276

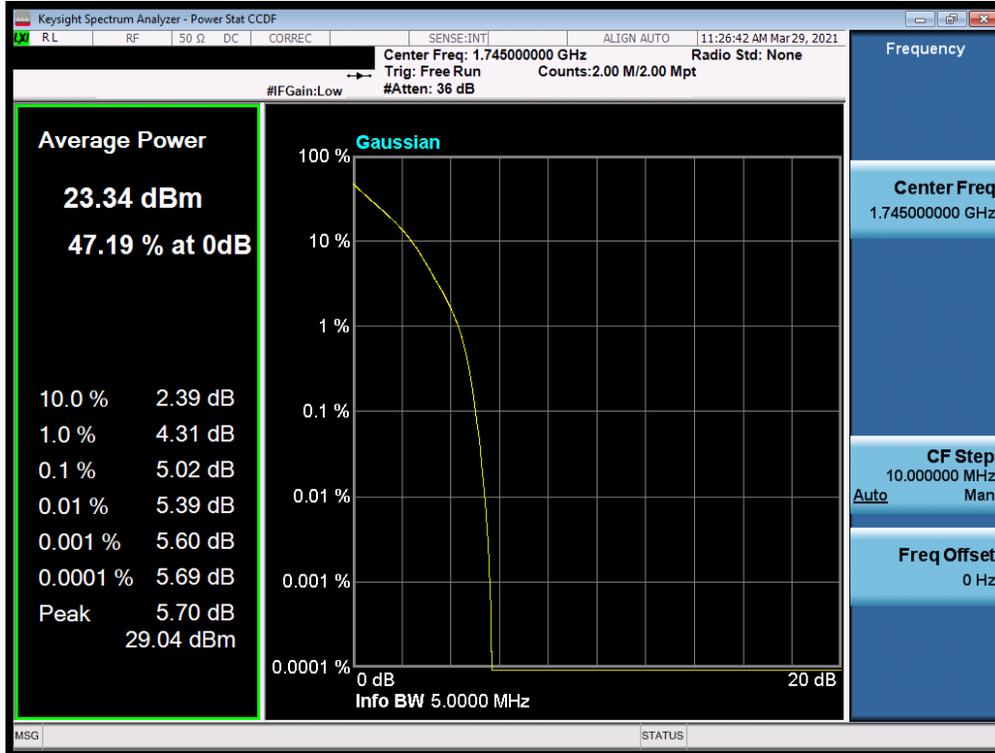


Plot 7-354. PAR Plot (LTE Band 66/4 - 10MHz QPSK - Full RB)

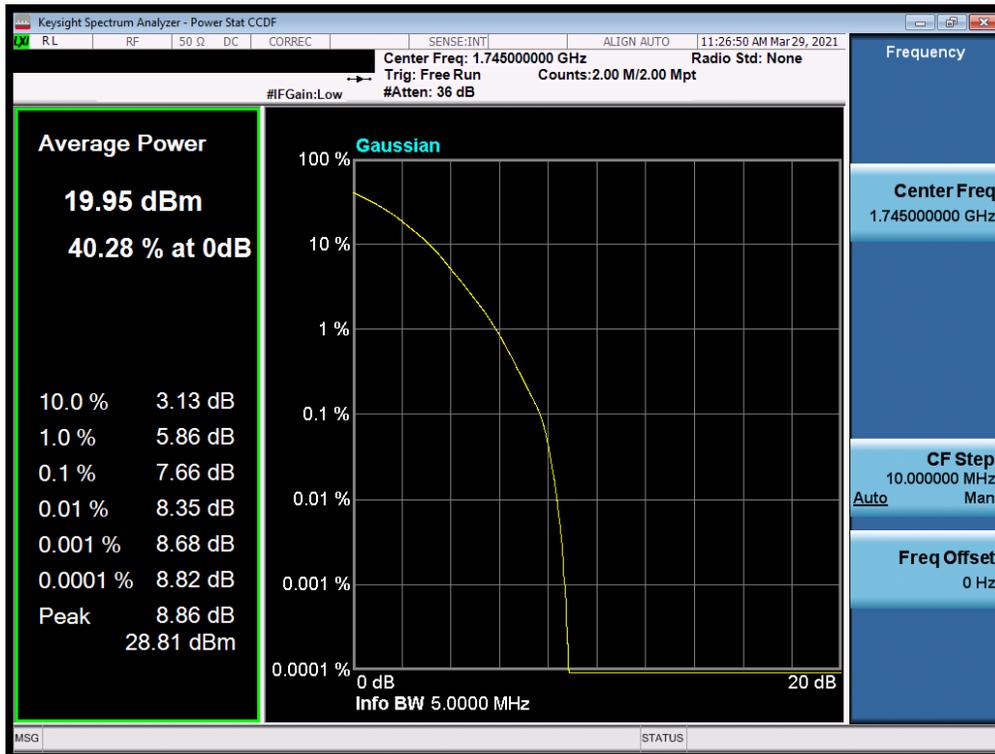


Plot 7-355. PAR Plot (LTE Band 66/4 - 10MHz 256-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 205 of 276

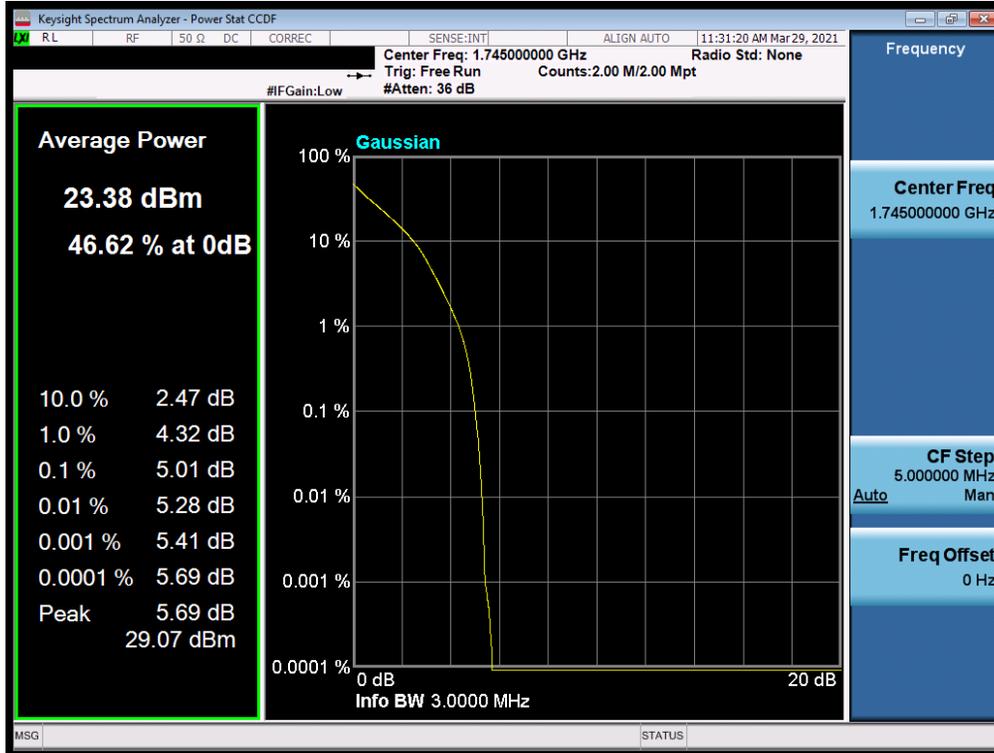


Plot 7-356. PAR Plot (LTE Band 66/4 - 5MHz QPSK - Full RB)

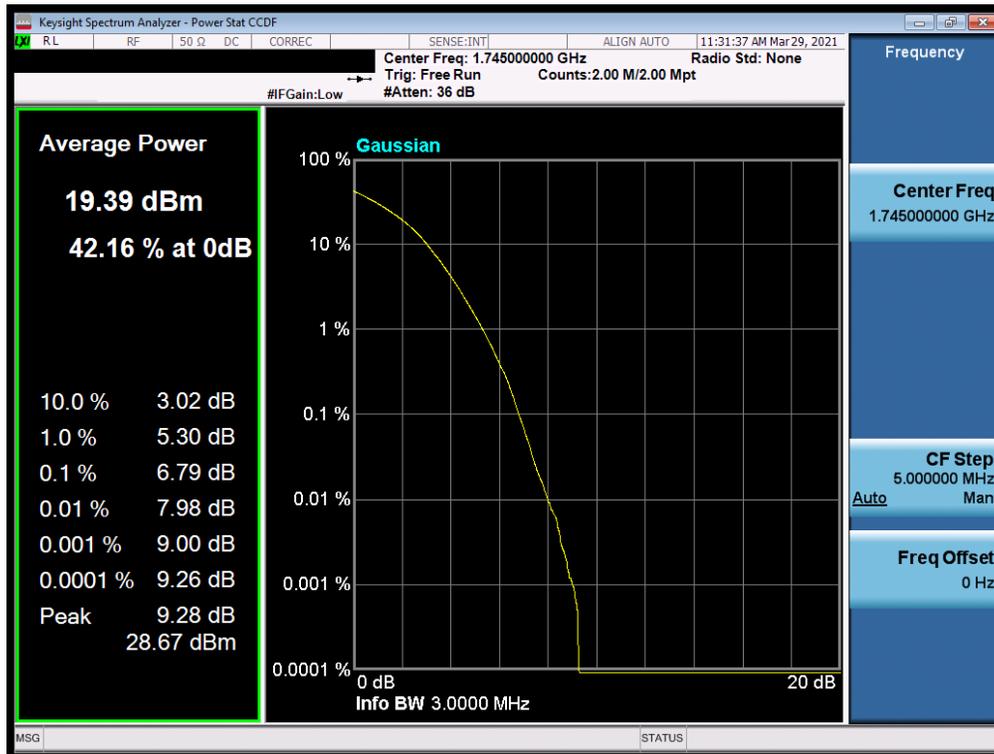


Plot 7-357. PAR Plot (LTE Band 66/4 - 5MHz 256-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 206 of 276

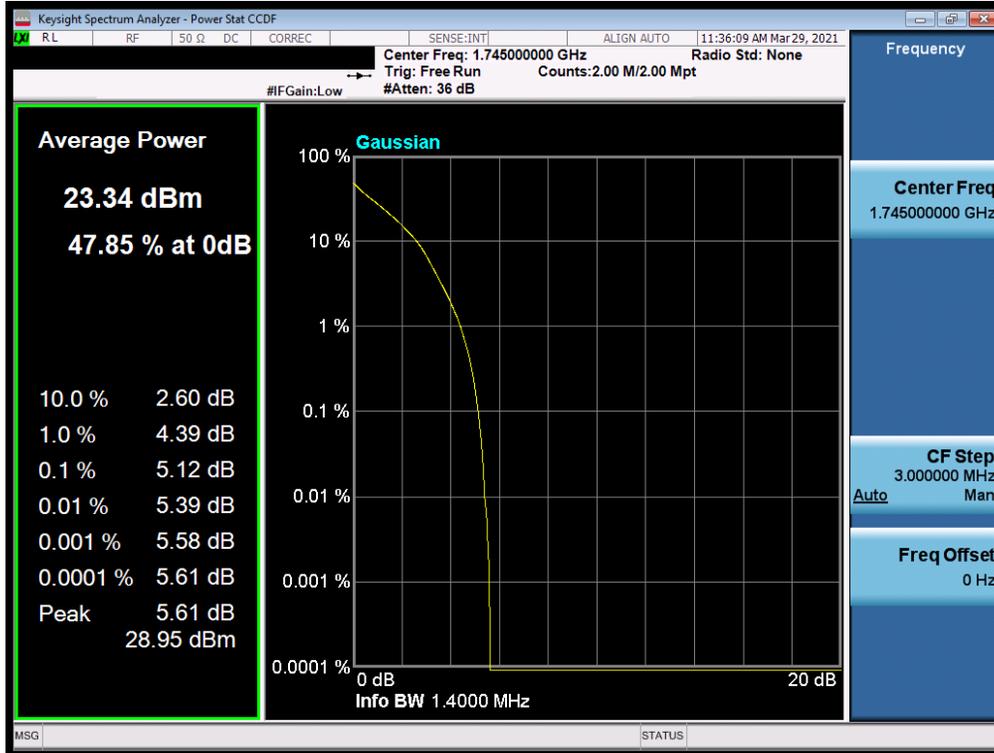


Plot 7-358. PAR Plot (LTE Band 66/4 - 3MHz QPSK - Full RB)

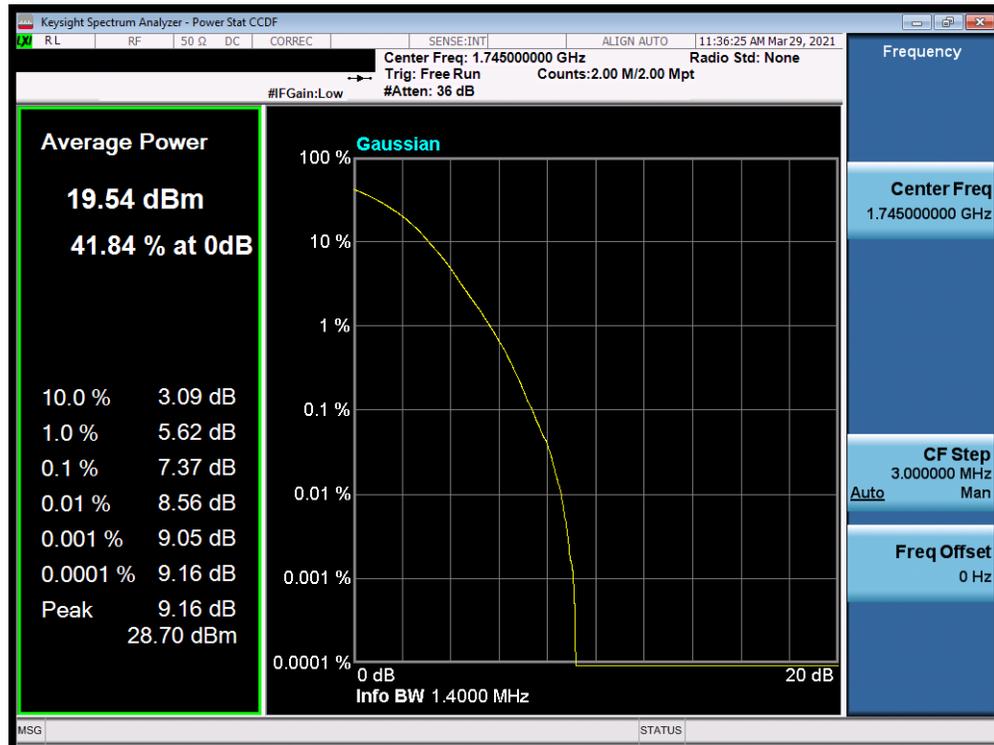


Plot 7-359. PAR Plot (LTE Band 66/4 - 3MHz 256-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 207 of 276



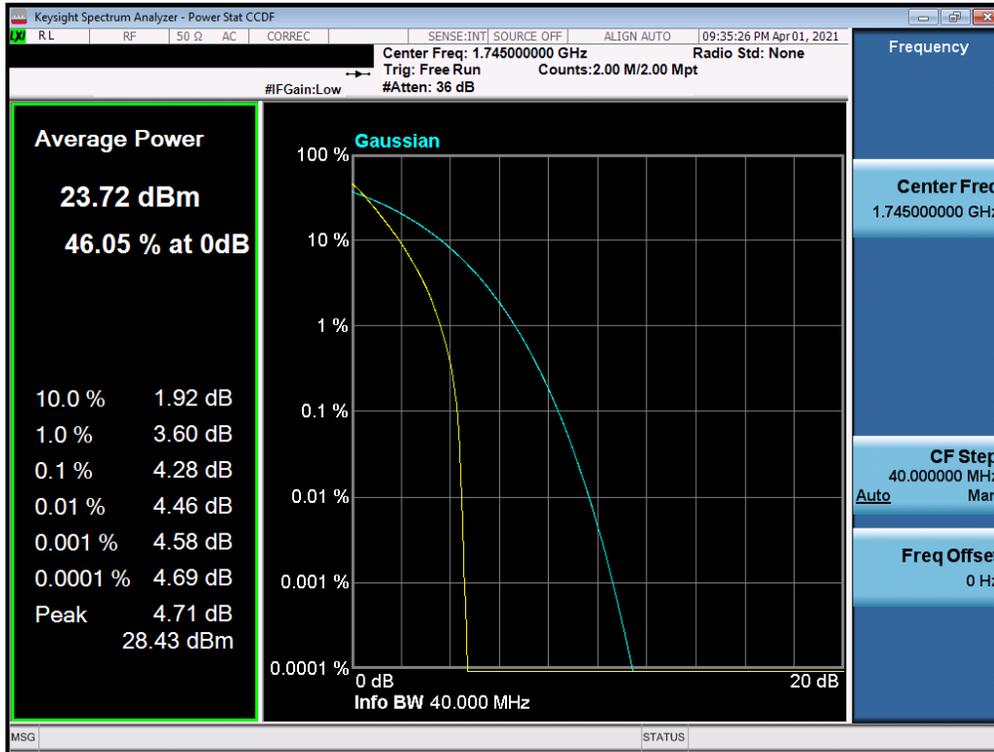
Plot 7-360. PAR Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB)



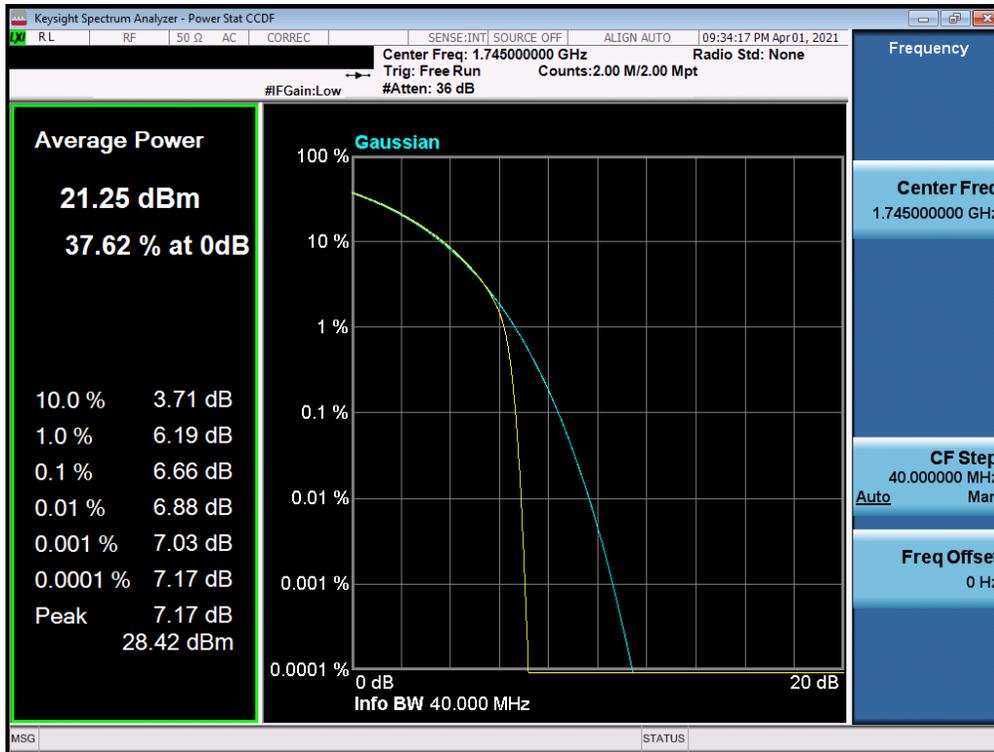
Plot 7-361. PAR Plot (LTE Band 66/4 - 1.4MHz 256-QAM - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 208 of 276

NR Band n66 – AntB

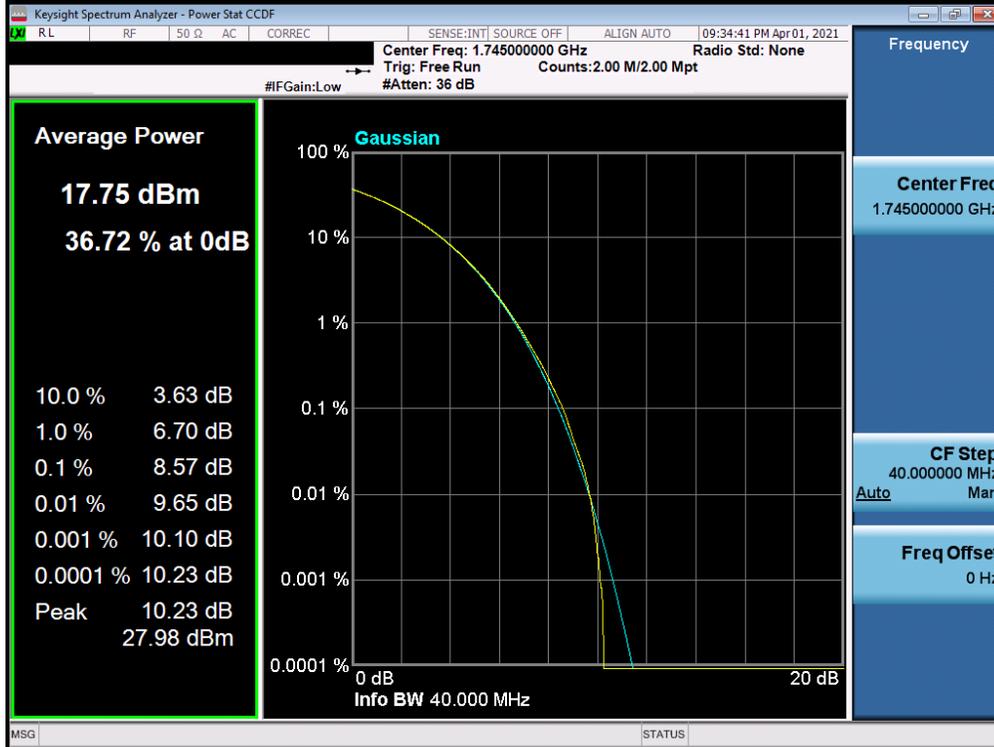


Plot 7-362. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM BPSK - Full RB - AntB)



Plot 7-363. PAR Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB - AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 209 of 276



Plot 7-364. PAR Plot (NR Band n66 - 40.0MHz CP-OFDM 256-QAM - Full RB - AntB)

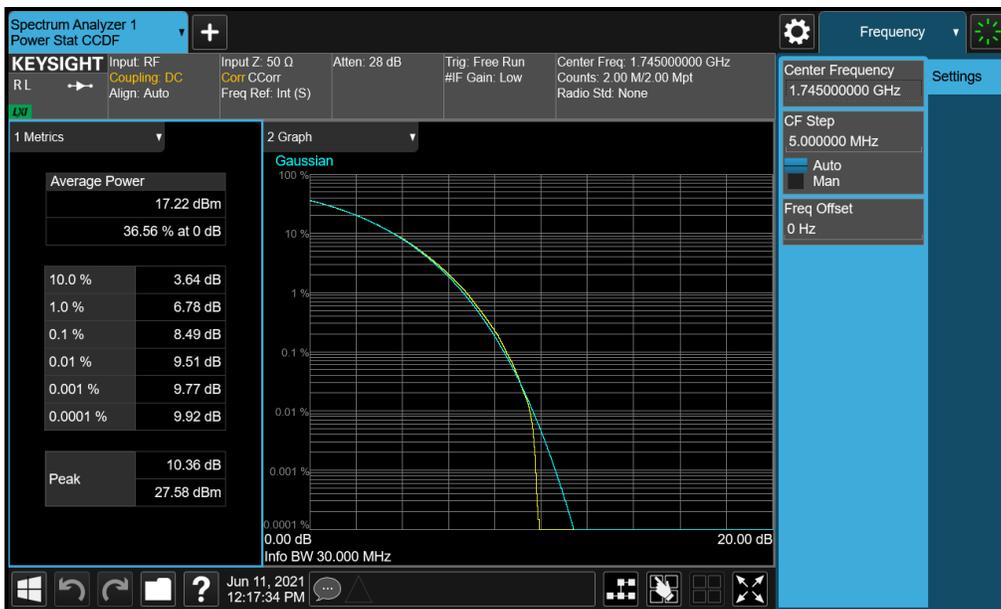


Plot 7-365. PAR Plot (NR Band n66 - 30.0MHz DFT-s-OFDM BPSK - Full RB - AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 210 of 276

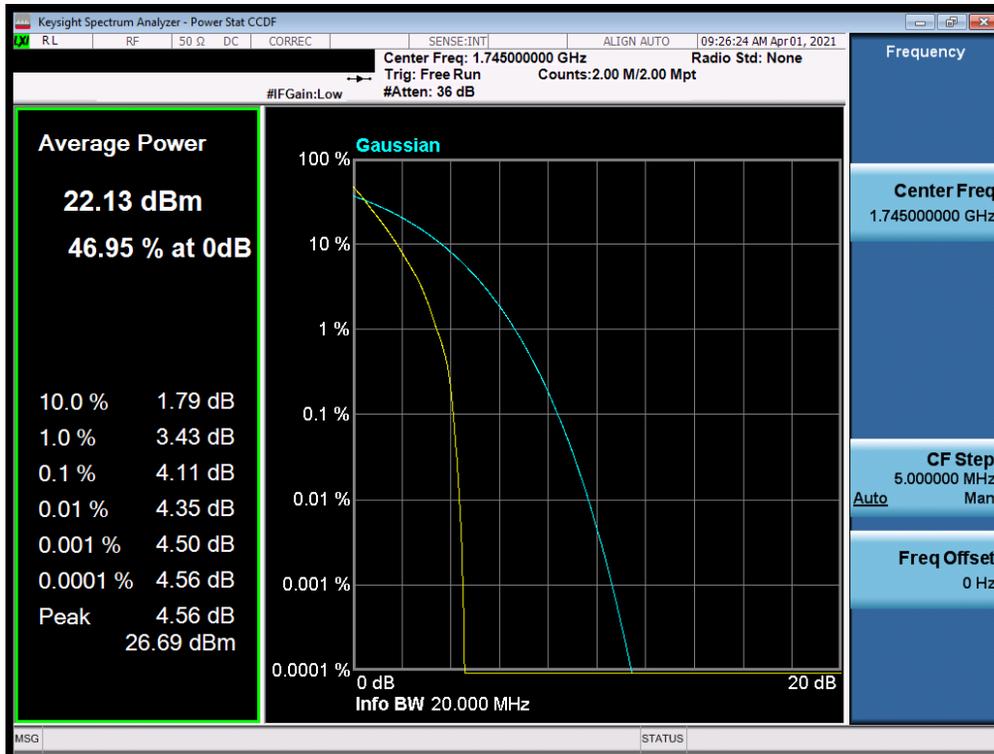


Plot 7-366. PAR Plot (NR Band n66 - 30.0MHz CP-OFDM QPSK - Full RB - AntB)

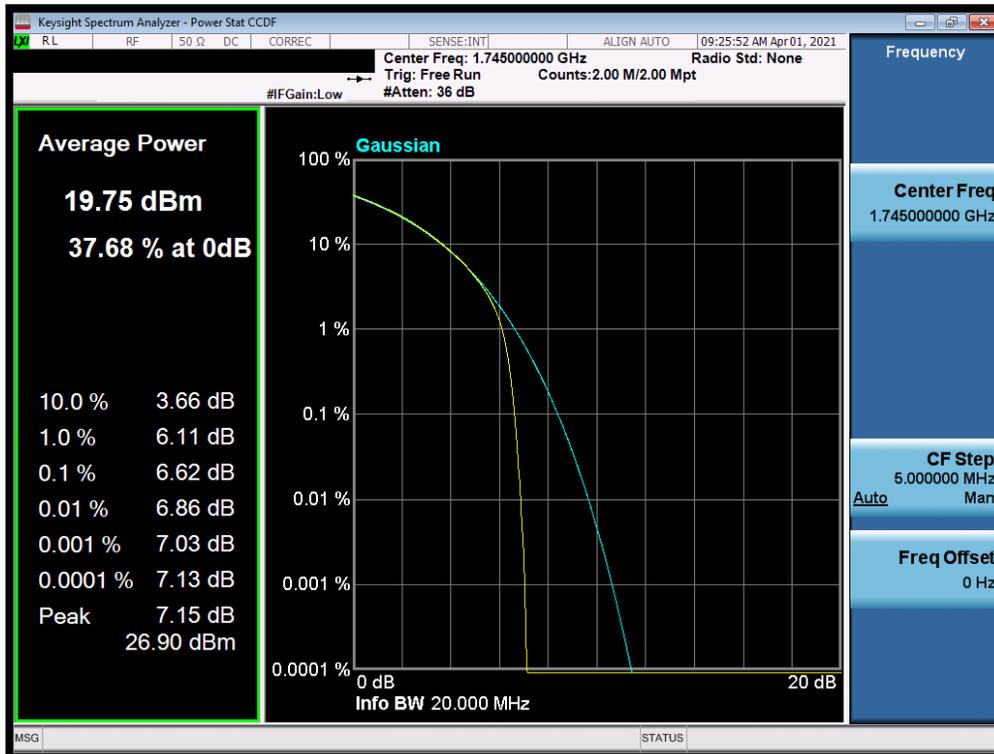


Plot 7-367. PAR Plot (NR Band n66 - 30.0MHz CP-OFDM 256-QAM - Full RB - AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 211 of 276

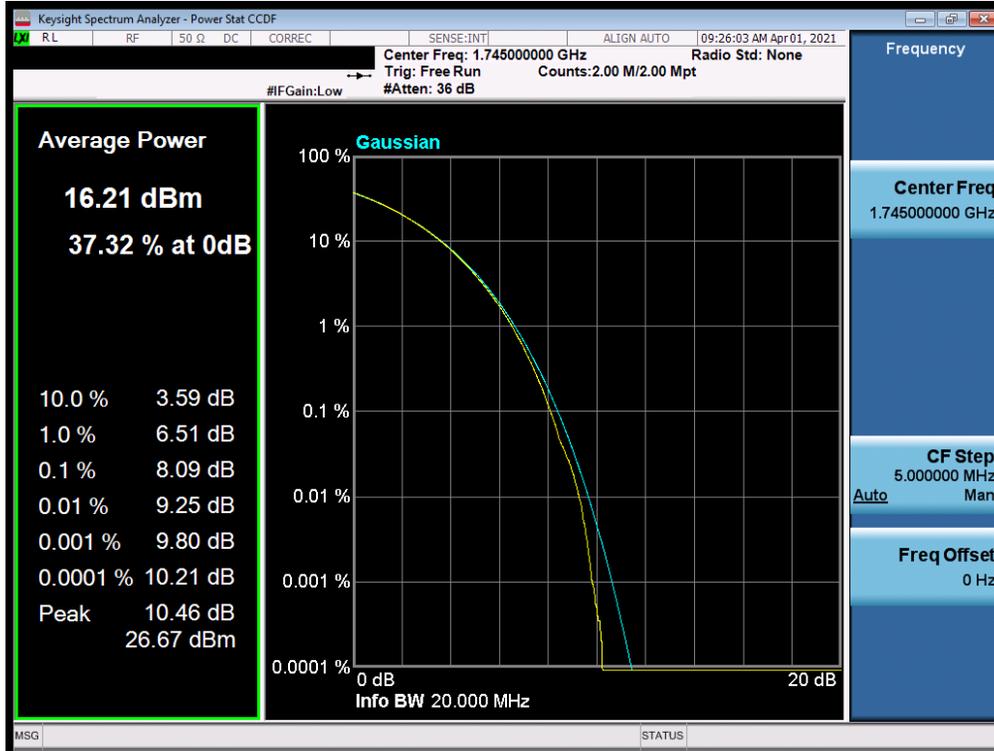


Plot 7-368. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB - AntB)

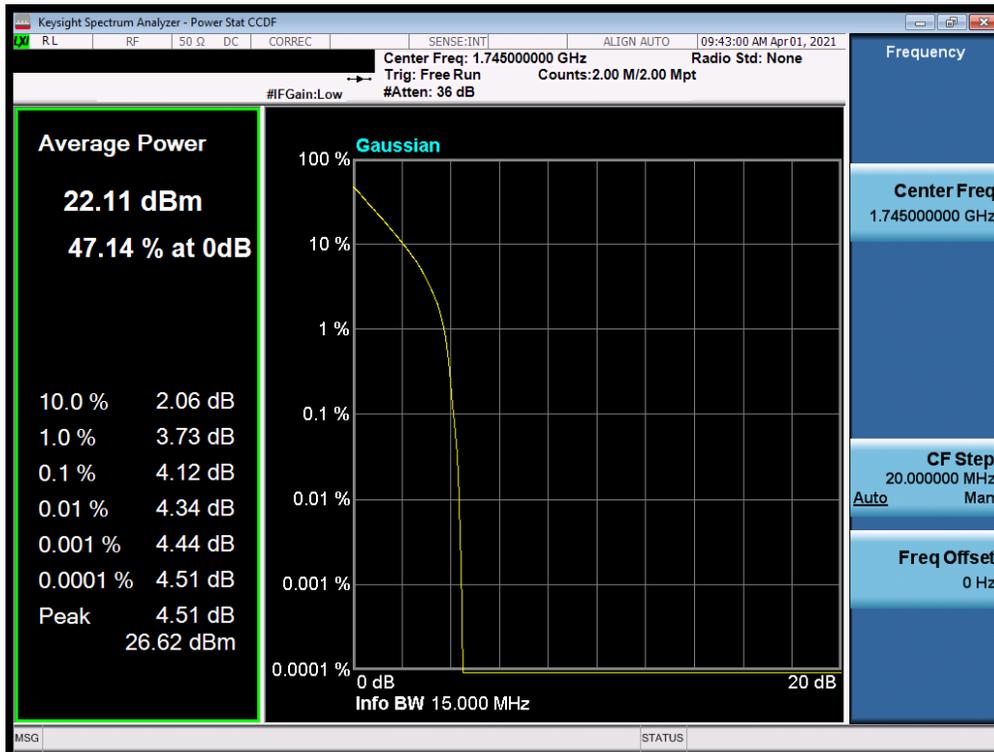


Plot 7-369. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB - AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 212 of 276

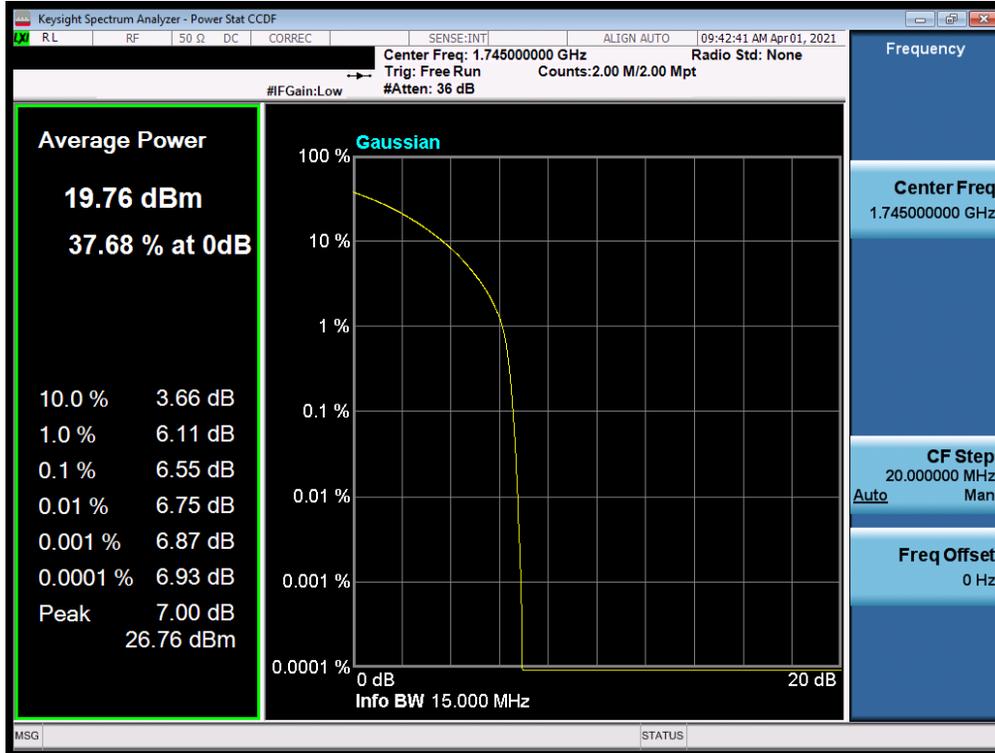


Plot 7-370. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM 256-QAM - Full RB - AntB)

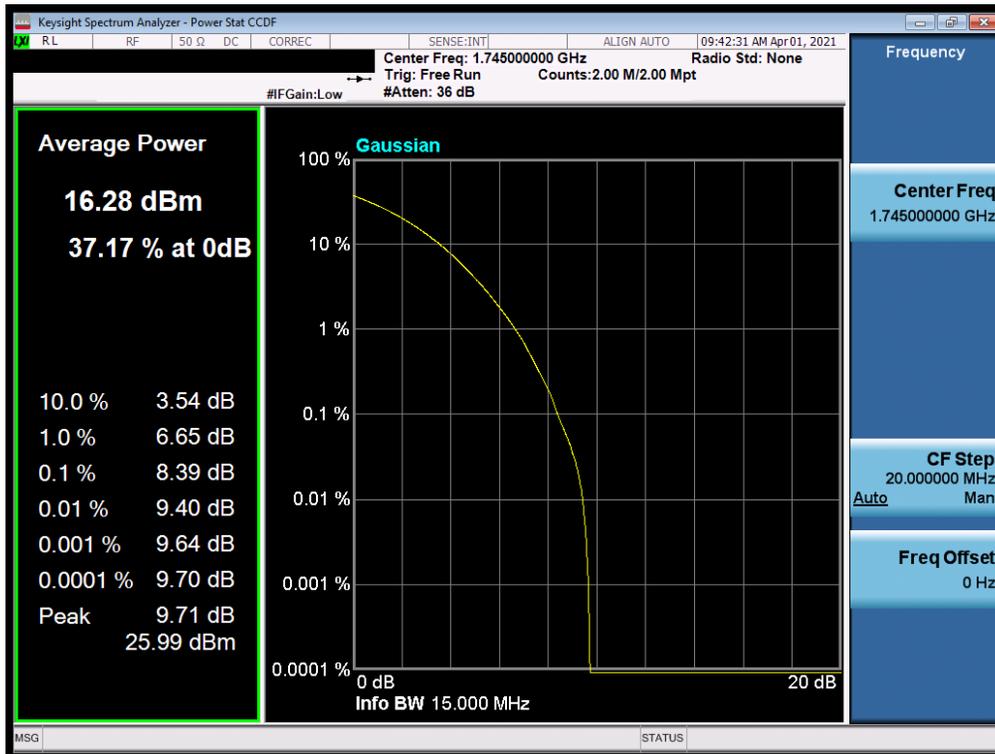


Plot 7-371. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB - AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 213 of 276

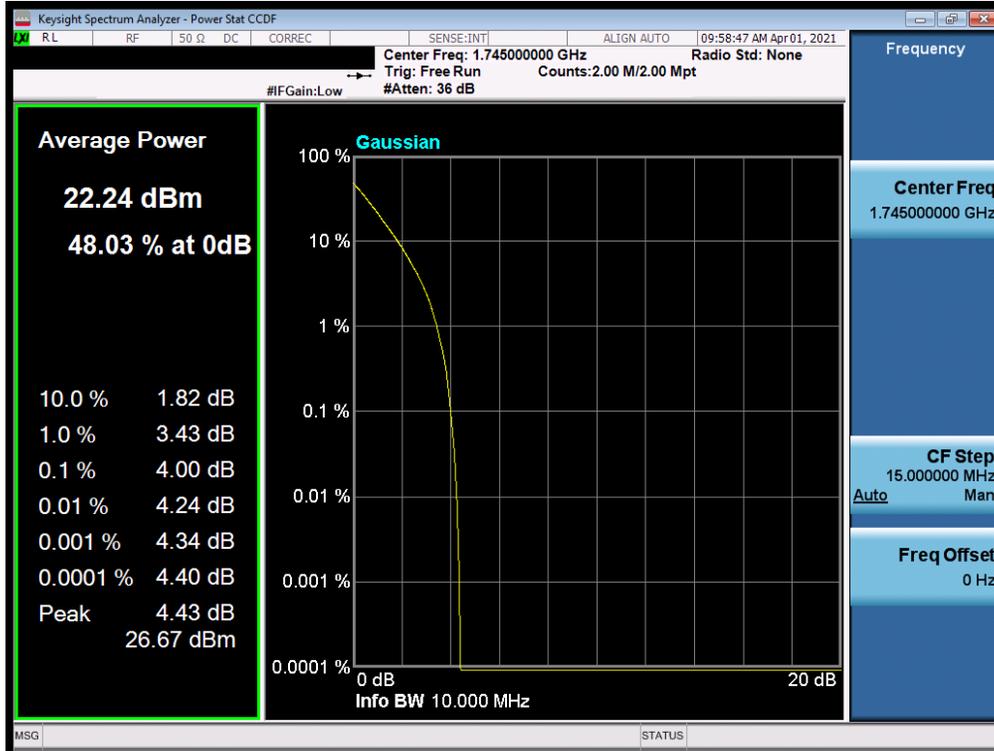


Plot 7-372. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB - AntB)

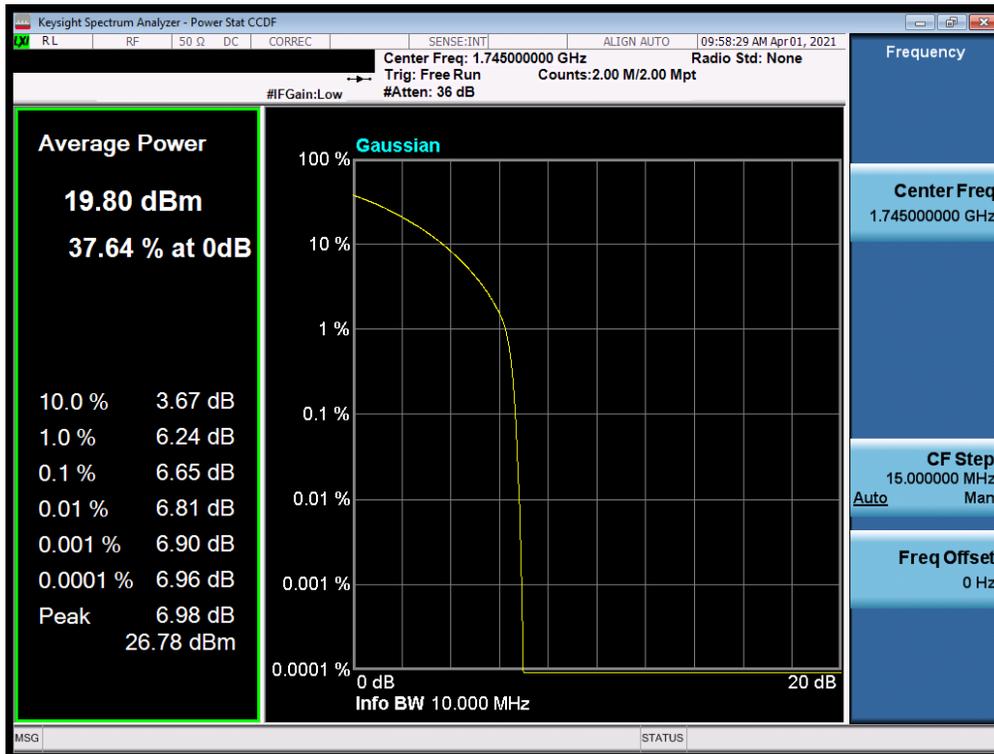


Plot 7-373. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM 256-QAM - Full RB - AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 214 of 276

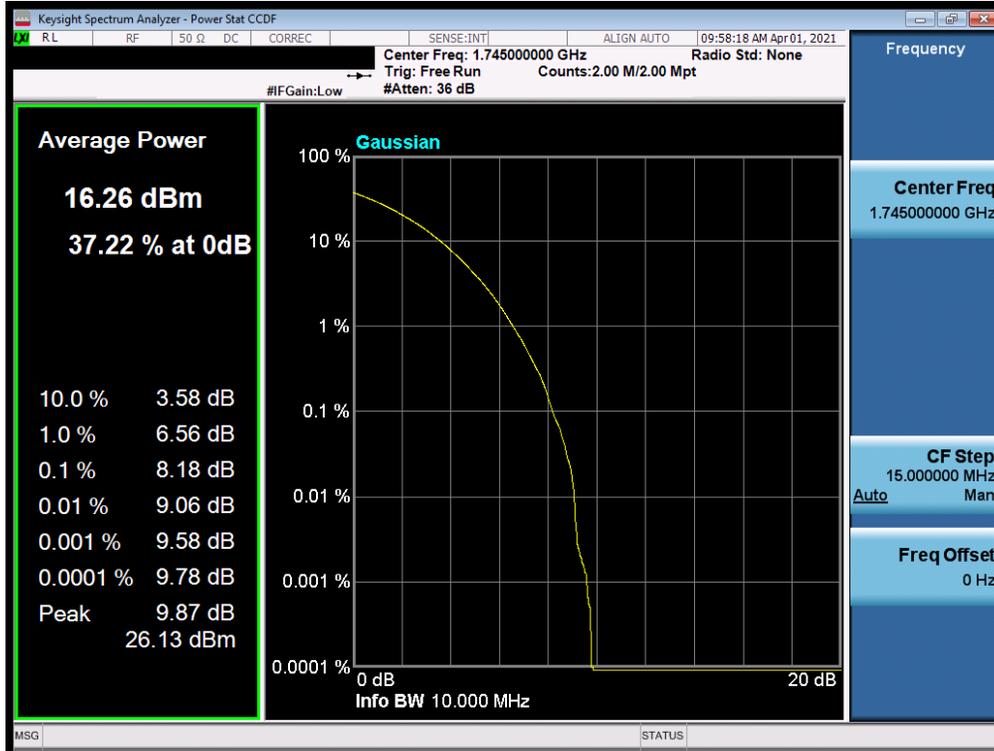


Plot 7-374. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB - AntB)

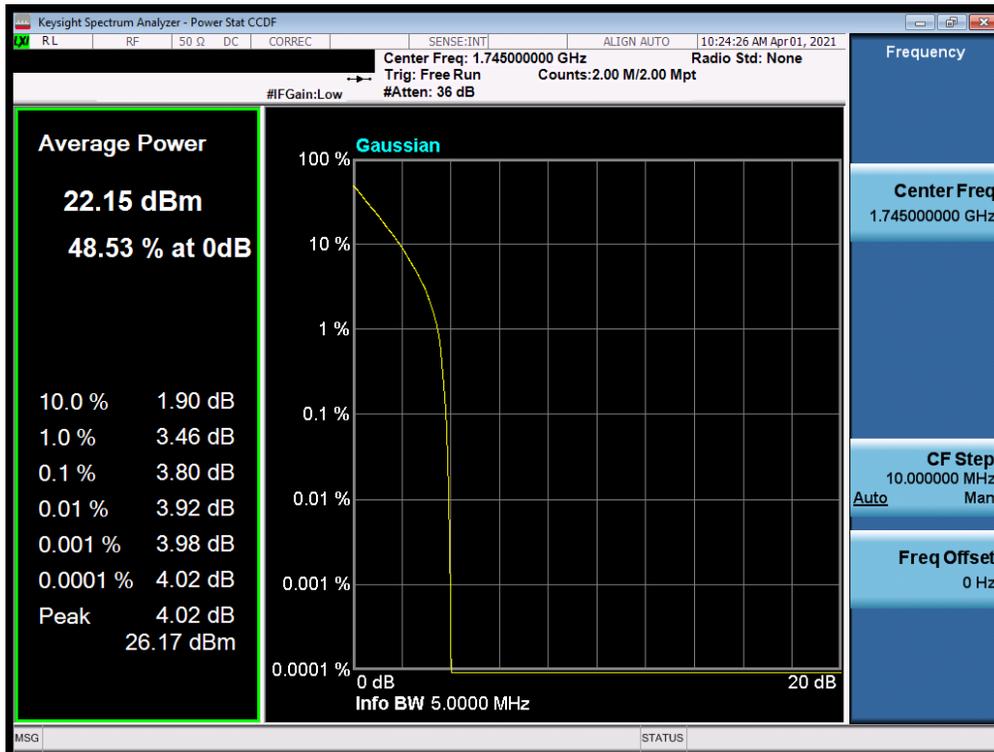


Plot 7-375. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB - AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 215 of 276

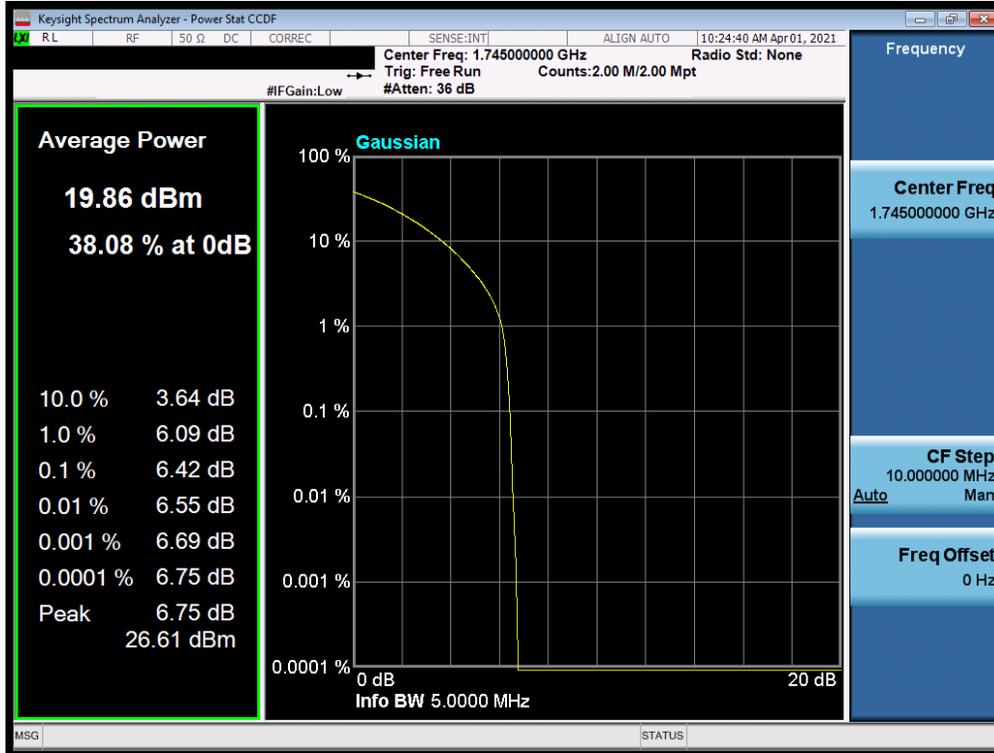


Plot 7-376. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM 256-QAM - Full RB - AntB)

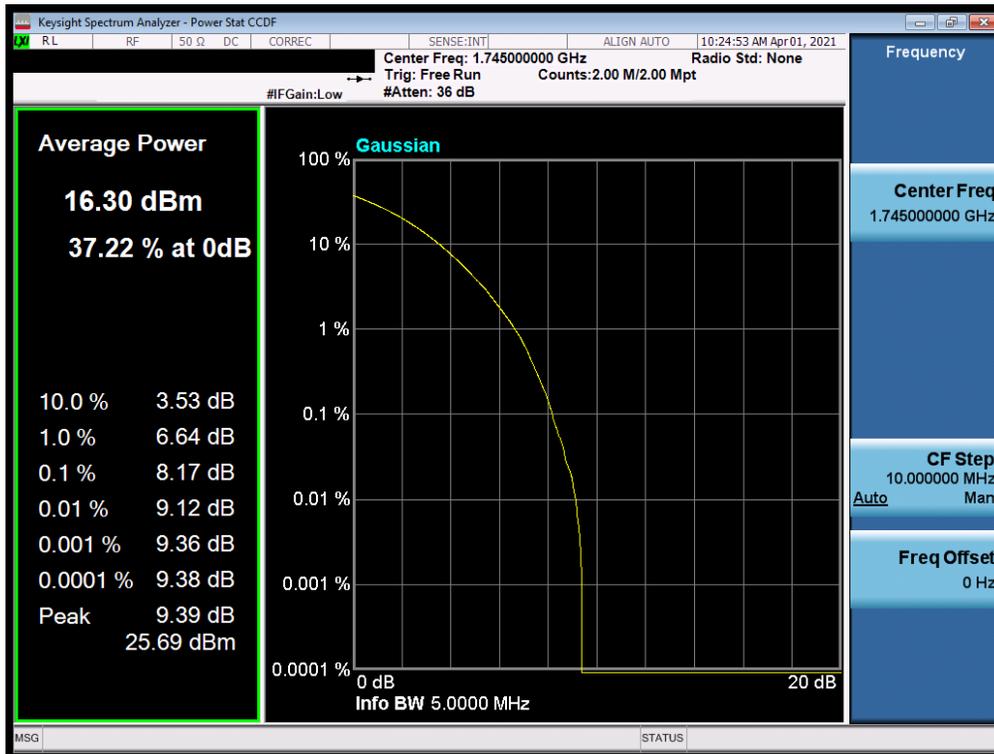


Plot 7-377. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB - AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 216 of 276



Plot 7-378. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB - AntB)



Plot 7-379. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM 256-QAM - Full RB - AntB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 217 of 276

NR Band n66 – AntE



Plot 7-380. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM BPSK - Full RB - AntE)

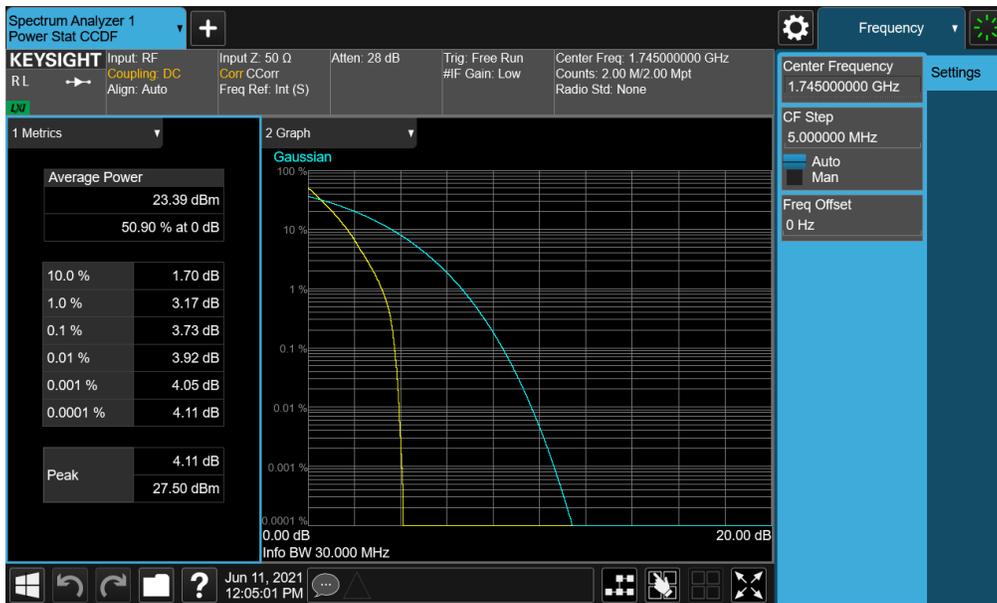


Plot 7-381. PAR Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB - AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 218 of 276



Plot 7-382. PAR Plot (NR Band n66 - 40.0MHz CP-OFDM 256-QAM - Full RB - AntE)



Plot 7-383. PAR Plot (NR Band n66 - 30.0MHz DFT-s-OFDM BPSK - Full RB - AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 219 of 276

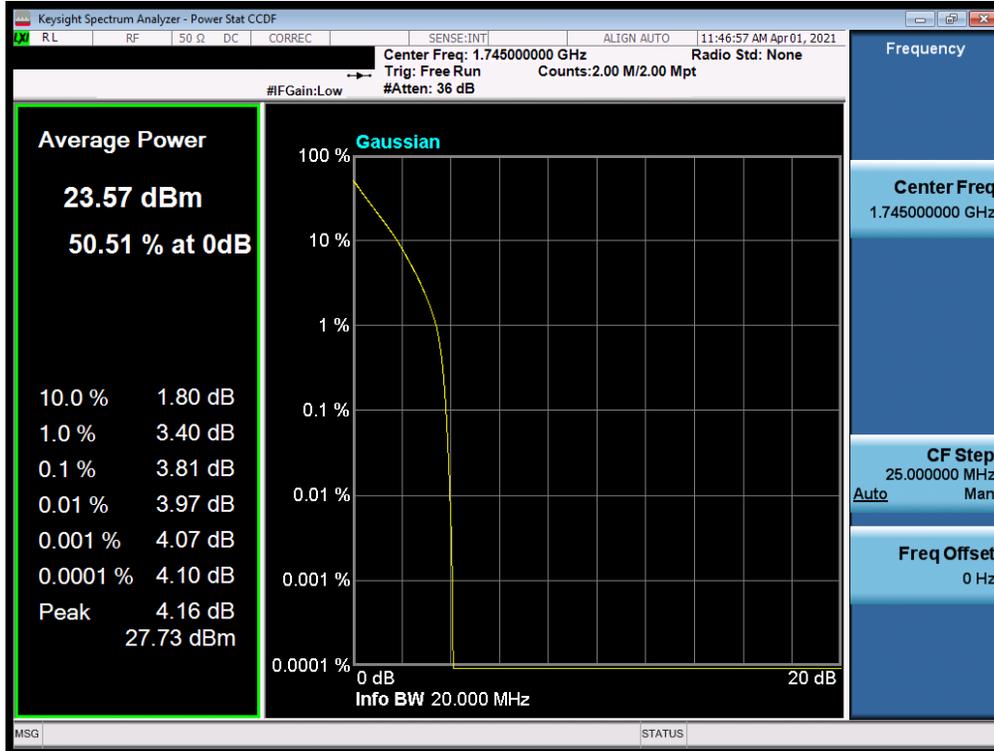


Plot 7-384. PAR Plot (NR Band n66 - 30.0MHz CP-OFDM QPSK - Full RB - AntE)

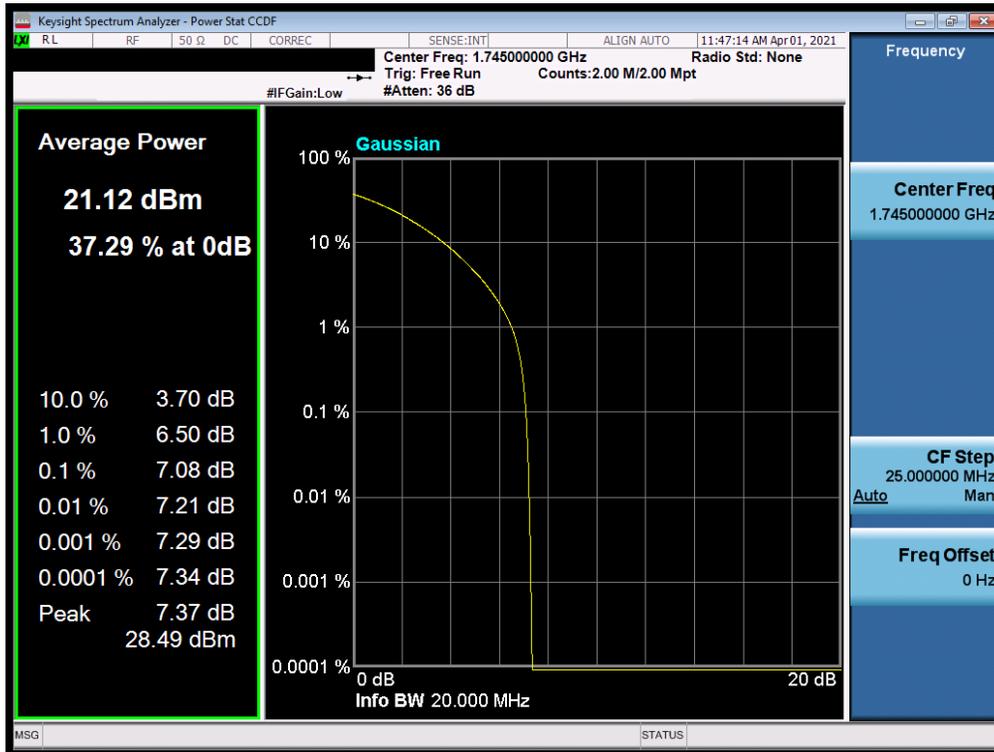


Plot 7-385. PAR Plot (NR Band n66 - 30.0MHz CP-OFDM 256-QAM - Full RB - AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 220 of 276

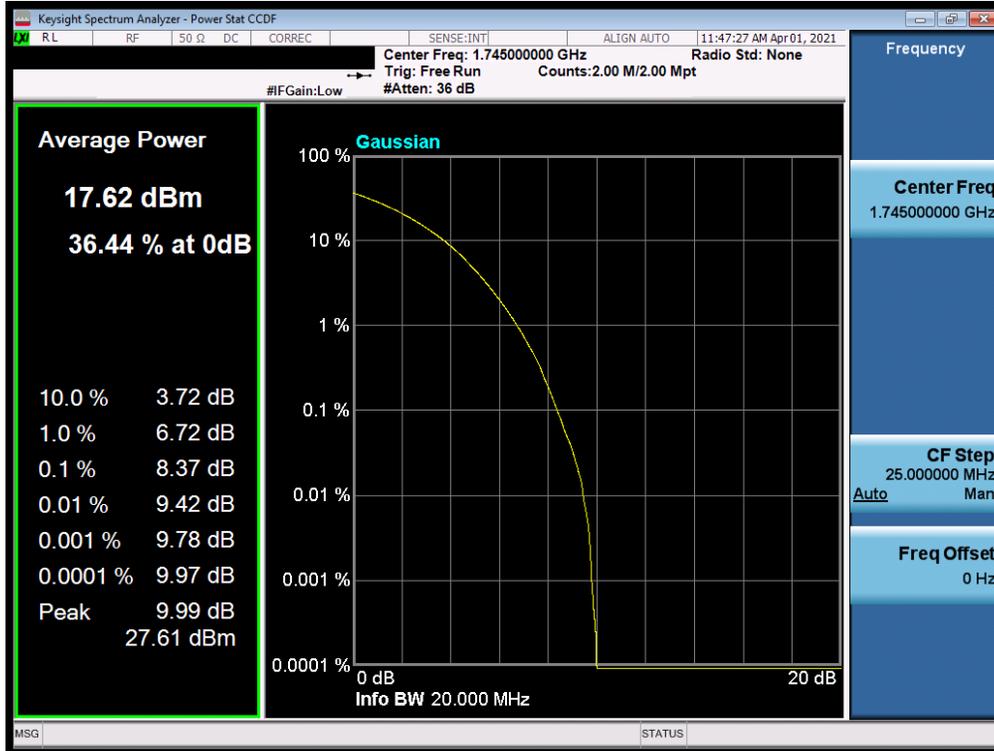


Plot 7-386. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM BPSK - Full RB - AntE)

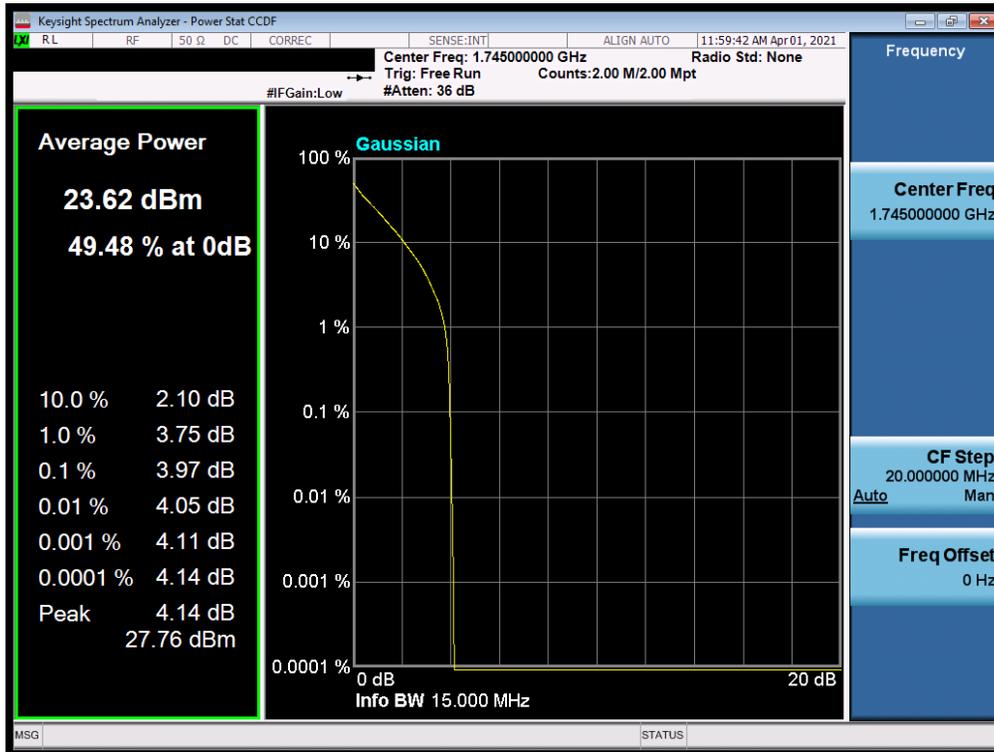


Plot 7-387. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB - AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 221 of 276

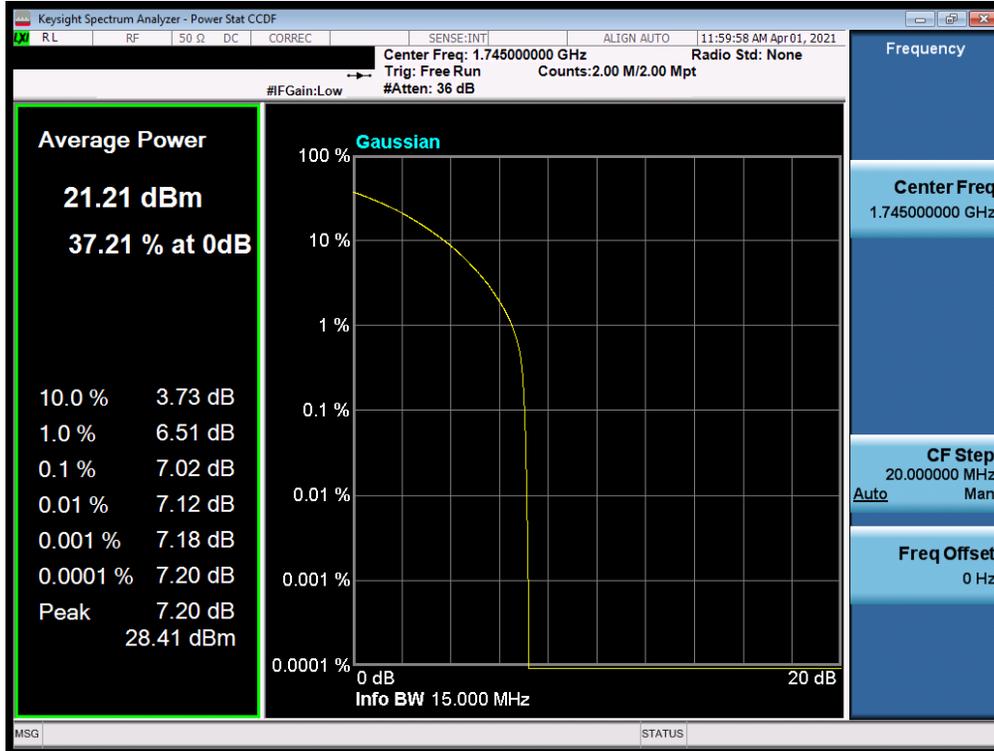


Plot 7-388. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM 256-QAM - Full RB - AntE)

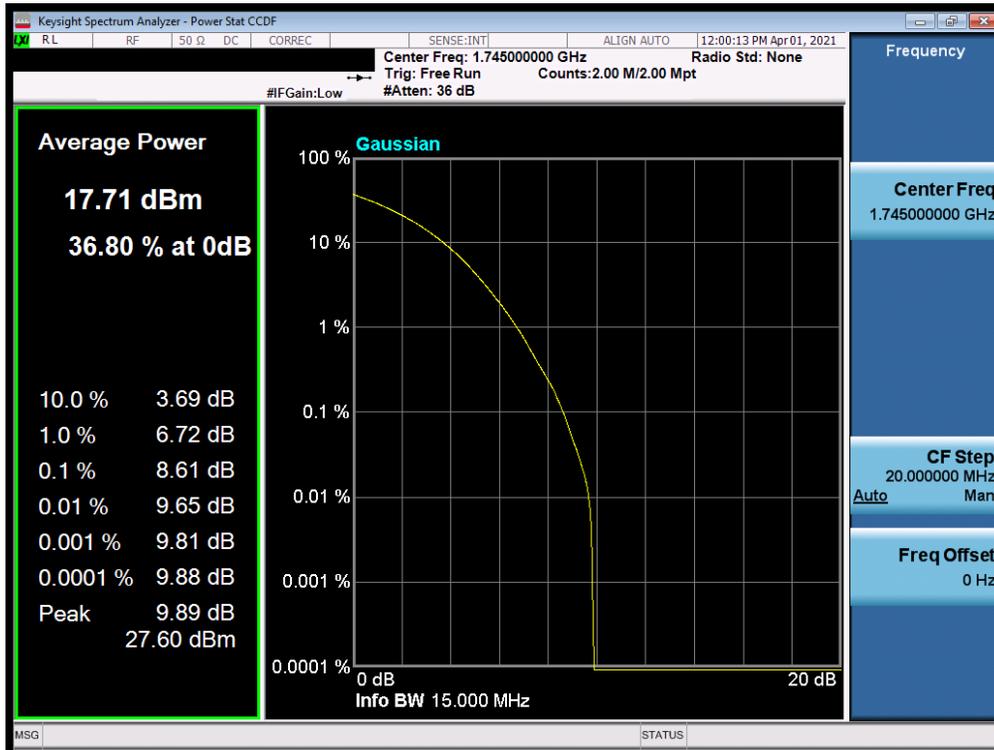


Plot 7-389. PAR Plot (NR Band n66 - 15.0MHz DFT-s-OFDM BPSK - Full RB - AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 222 of 276

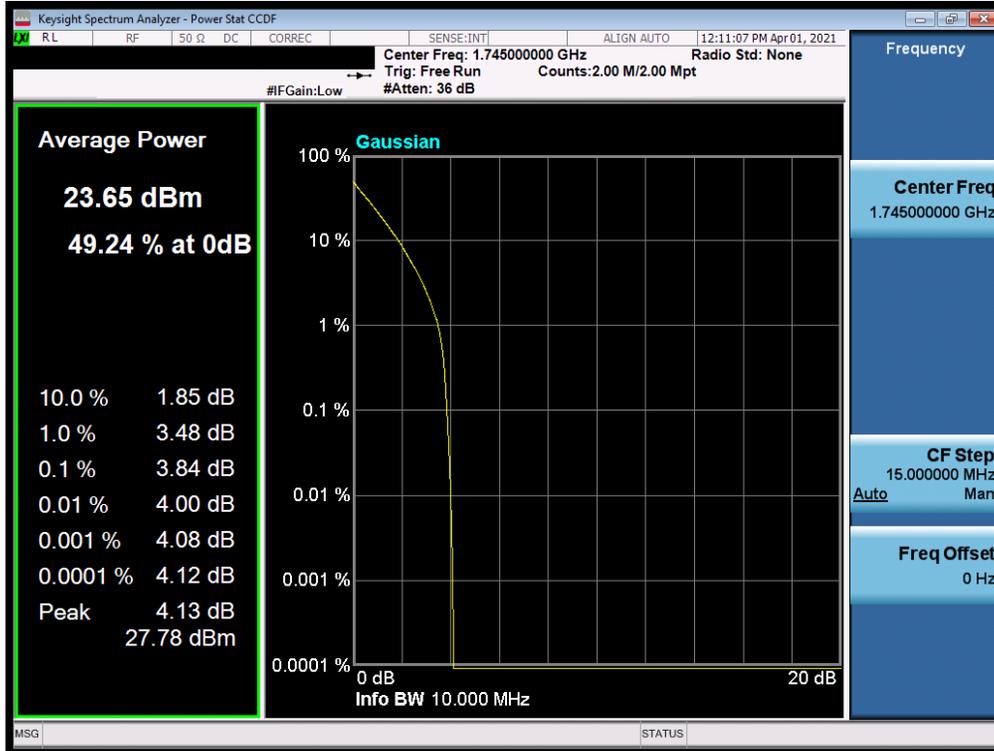


Plot 7-390. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM QPSK - Full RB - AntE)

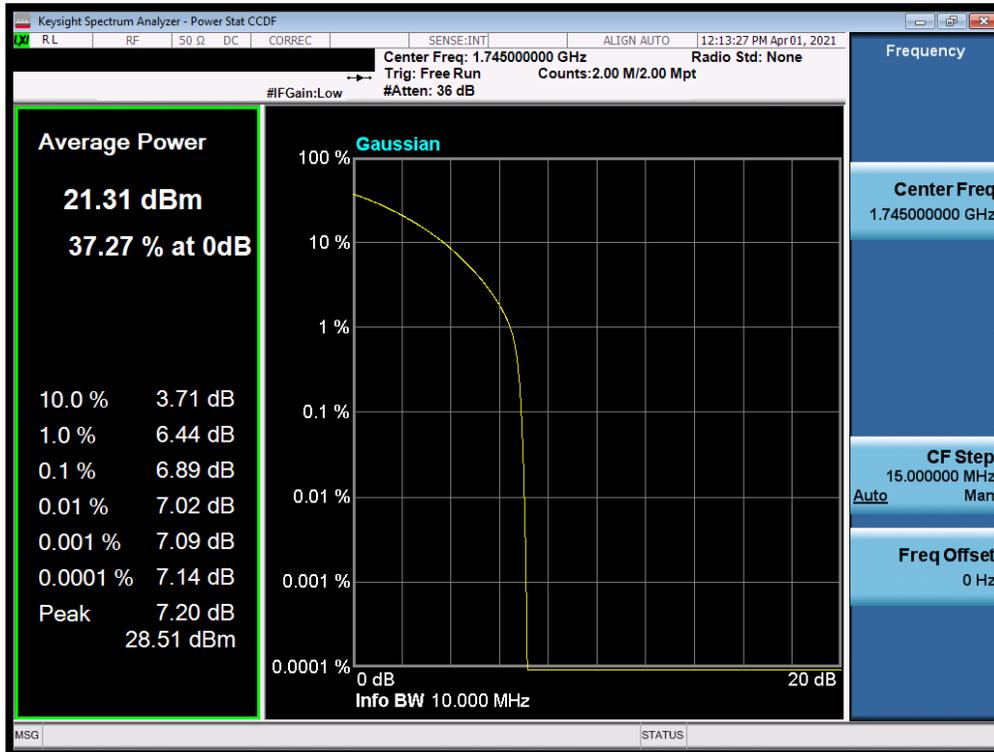


Plot 7-391. PAR Plot (NR Band n66 - 15.0MHz CP-OFDM 256-QAM - Full RB - AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 223 of 276

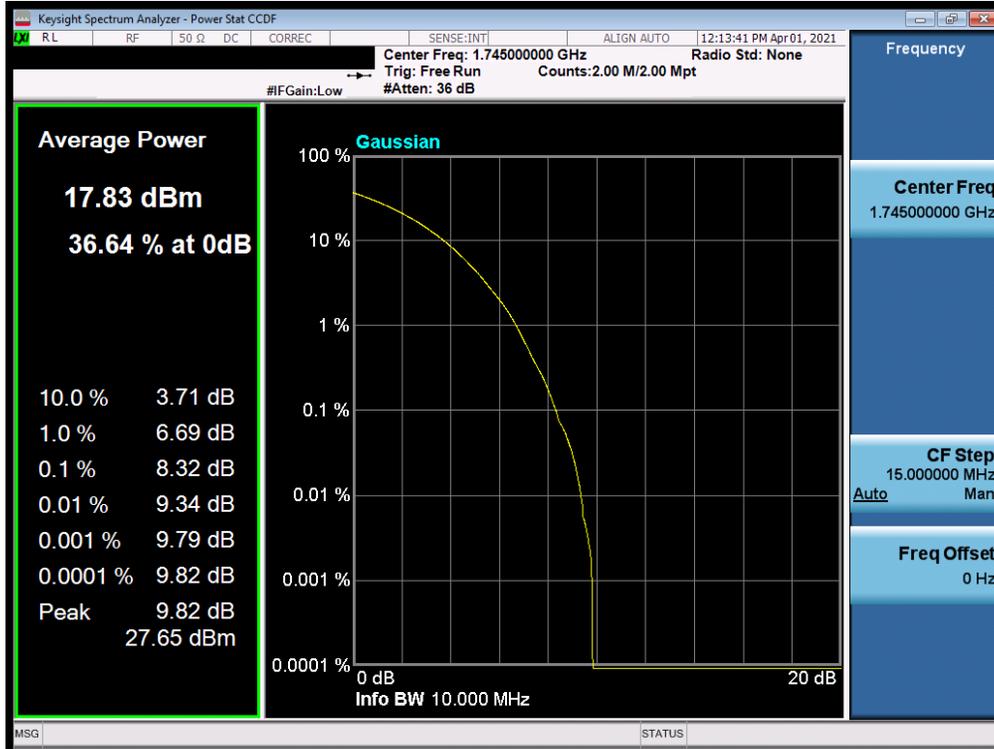


Plot 7-392. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB - AntE)

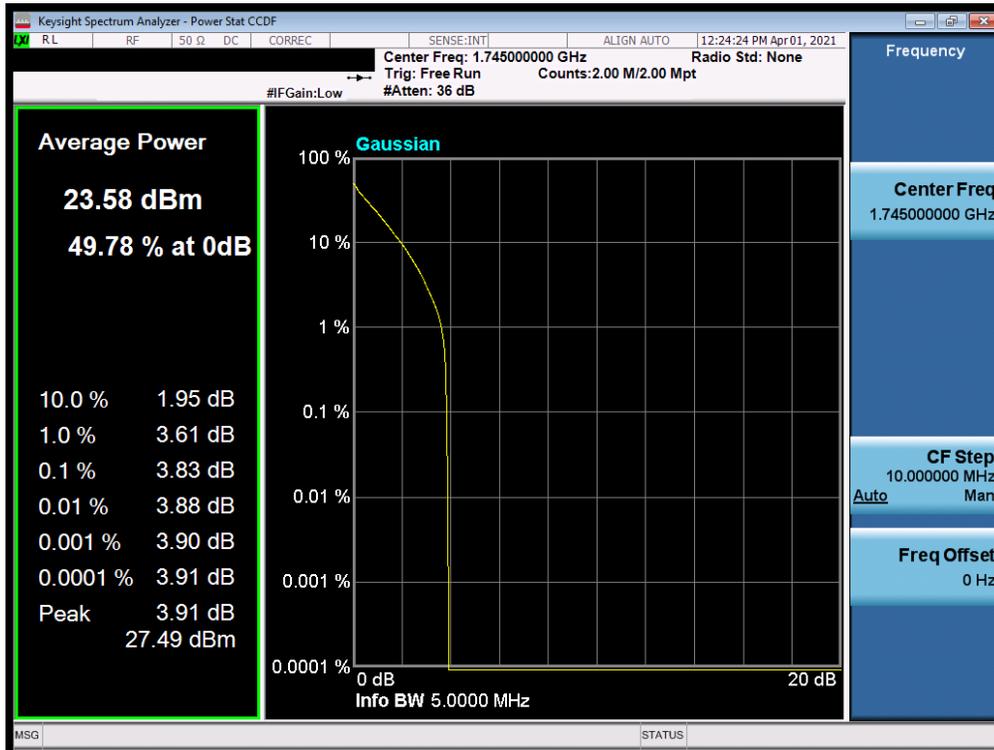


Plot 7-393. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB - AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 224 of 276

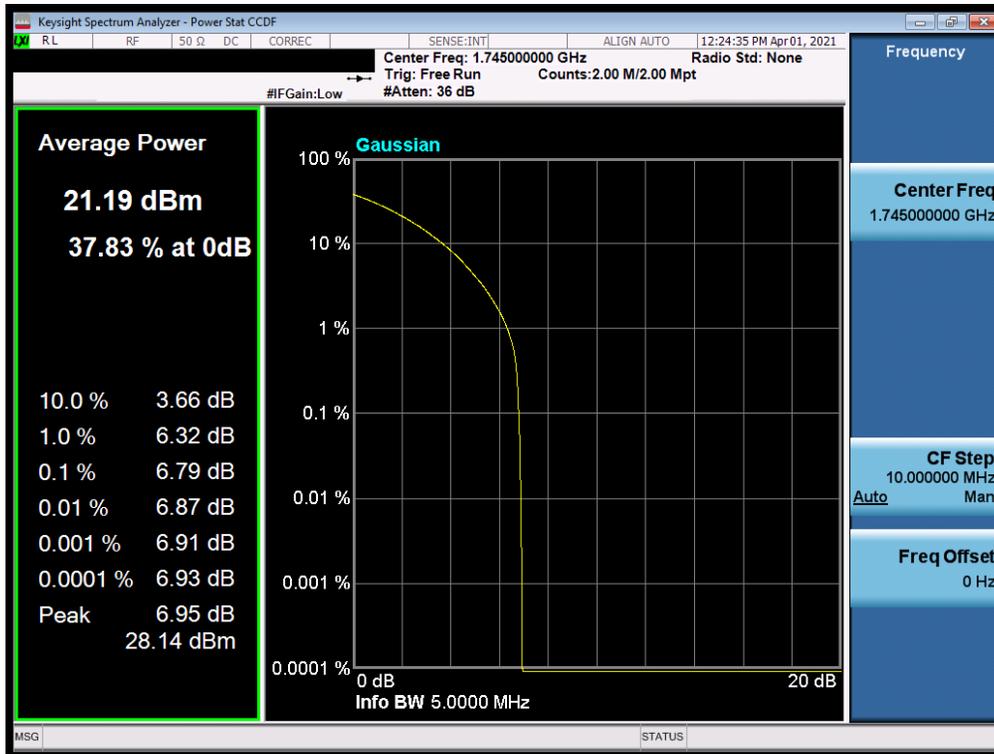


Plot 7-394. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM 256-QAM - Full RB - AntE)

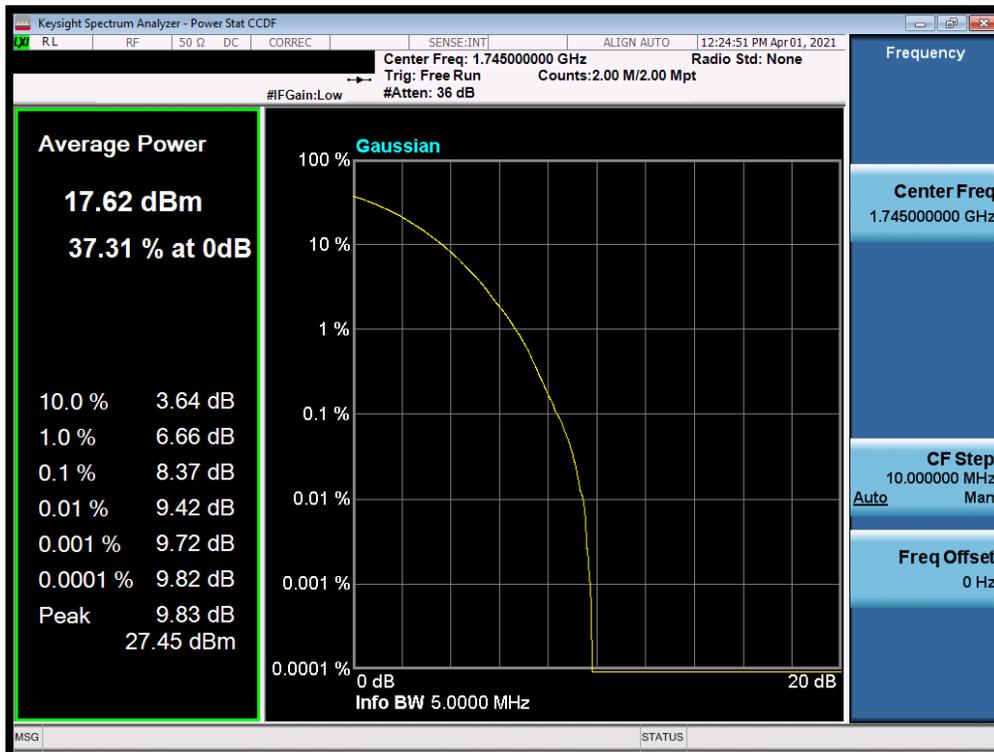


Plot 7-395. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB - AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 225 of 276



Plot 7-396. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB - AntE)



Plot 7-397. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM 256-QAM - Full RB - AntE)

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 - 06/10/2021	EUT Type: Portable Handset		Page 226 of 276

7.8 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.
2. RBW = 1 – 5% of the expected OBW, not to exceed 1MHz
3. VBW \geq 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points \geq 2 x span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

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Test Setup

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

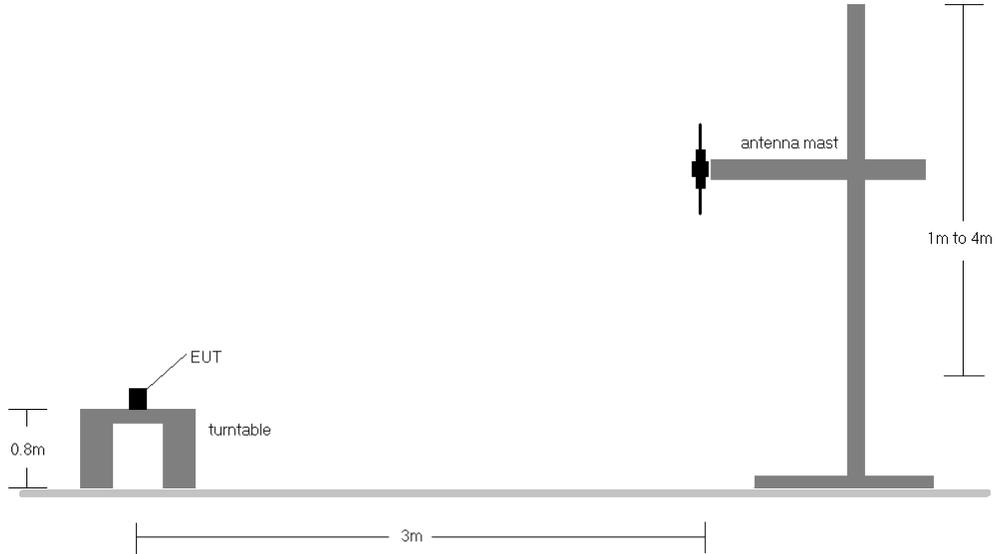


Figure 7-7. Radiated Test Setup <1GHz

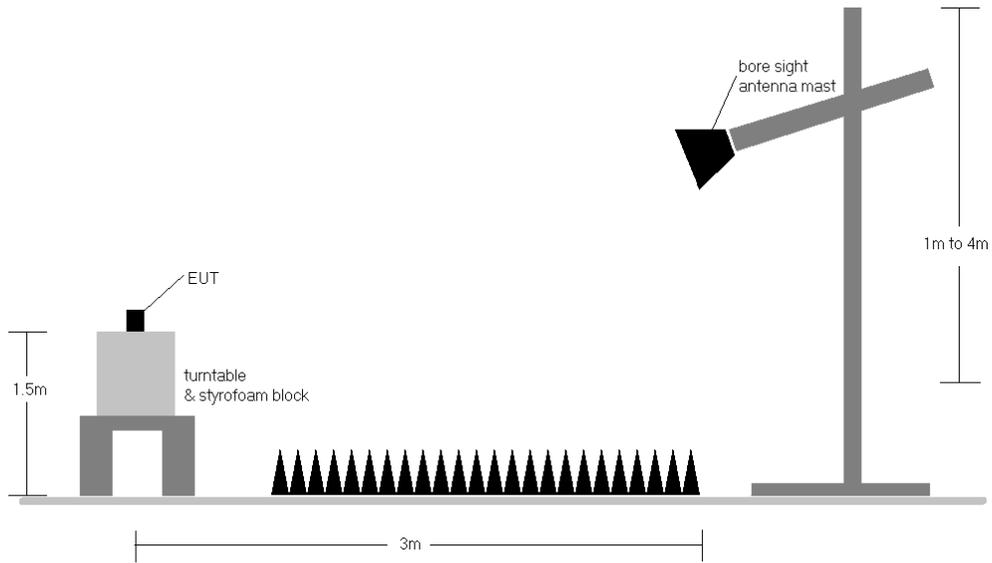


Figure 7-8. Radiated Test Setup >1GHz

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The 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.
- 4) 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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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	QPSK	673.0	H	292.0	324.0	4.09	1 / 99	16.47	20.56	0.114	36.99	-16.43	18.41	0.069	34.77	-16.36
		680.5	H	112.0	100.0	4.24	1 / 0	15.06	19.30	0.085	36.99	-17.69	17.15	0.052	34.77	-17.63
		688.0	H	300.0	321.0	4.48	1 / 50	15.46	19.94	0.099	36.99	-17.05	17.79	0.060	34.77	-16.98
15 MHz	QPSK	670.5	H	292.0	324.0	3.96	1 / 37	17.00	20.96	0.125	36.99	-16.03	18.81	0.076	34.77	-15.96
		680.5	H	112.0	100.0	4.24	1 / 0	15.00	19.24	0.084	36.99	-17.75	17.09	0.051	34.77	-17.68
		690.5	H	300.0	321.0	4.41	1 / 0	15.45	19.86	0.097	36.99	-17.13	17.71	0.059	34.77	-17.06
10 MHz	QPSK	668.0	H	292.0	324.0	3.82	1 / 25	17.22	21.05	0.127	36.99	-15.94	18.90	0.078	34.77	-15.87
		680.5	H	112.0	100.0	4.24	1 / 0	15.07	19.30	0.085	36.99	-17.69	17.15	0.052	34.77	-17.62
		693.0	H	300.0	321.0	4.44	1 / 49	15.40	19.85	0.097	36.99	-17.14	17.70	0.059	34.77	-17.07
5 MHz	QPSK	668.0	H	292.0	324.0	3.82	1 / 25	15.94	19.77	0.095	36.99	-17.22	17.62	0.058	34.77	-17.15
		665.5	H	292.0	324.0	3.79	1 / 24	16.77	20.56	0.114	36.99	-16.43	18.41	0.069	34.77	-16.36
		680.5	H	112.0	100.0	4.24	1 / 12	15.03	19.26	0.084	36.99	-17.73	17.11	0.051	34.77	-17.66
20 MHz	16-QAM	695.5	H	300.0	321.0	4.58	1 / 24	15.35	19.92	0.098	36.99	-17.06	17.77	0.060	34.77	-17.00
	16-QAM	665.5	H	292.0	324.0	3.79	1 / 24	15.67	19.46	0.088	36.99	-17.53	17.31	0.054	34.77	-17.46
	Opposite Pol.	673.0	V	164.0	182.0	4.24	1 / 50	12.91	17.15	0.052	36.99	-19.84	15.00	0.032	34.77	-19.78
	Closed	688.0	V	164.0	182.0	4.24	1 / 50	13.89	18.13	0.065	36.99	-18.86	15.98	0.040	34.77	-18.80
20 MHz	WCP	673.0	H	295.0	321.0	4.24	1 / 50	12.72	16.96	0.050	36.99	-20.03	14.81	0.030	34.77	-19.97

Table 7-5. ERP Data (LTE Band 71 – AntA + AntB)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	
20 MHz	QPSK	673.0	H	158.0	116.0	3.09	1 / 50	14.52	17.61	0.058	36.99	-19.38	15.46	0.035	34.77	-19.31	
		680.5	H	135.0	322.0	3.19	1 / 99	15.20	18.39	0.069	36.99	-18.60	16.24	0.042	34.77	-18.54	
		688.0	H	135.0	322.0	3.28	1 / 0	14.52	17.80	0.060	36.99	-19.19	15.65	0.037	34.77	-19.12	
15 MHz	QPSK	680.5	H	135.0	322.0	3.19	1 / 99	14.35	17.54	0.057	36.99	-19.45	15.39	0.035	34.77	-19.39	
		670.5	H	158.0	116.0	3.06	1 / 37	14.95	18.01	0.063	36.99	-18.98	15.86	0.039	34.77	-18.91	
		680.5	H	135.0	322.0	3.19	1 / 0	15.14	18.33	0.068	36.99	-18.66	16.18	0.041	34.77	-18.59	
10 MHz	QPSK	690.5	H	135.0	322.0	3.31	1 / 0	14.41	17.72	0.059	36.99	-19.27	15.57	0.036	34.77	-19.20	
		680.5	H	135.0	322.0	3.19	1 / 0	14.58	17.77	0.060	36.99	-19.22	15.62	0.036	34.77	-19.15	
		668.0	H	158.0	116.0	3.02	1 / 25	15.07	18.10	0.065	36.99	-18.89	15.95	0.039	34.77	-18.82	
5 MHz	QPSK	680.5	H	135.0	322.0	3.19	1 / 12	14.62	17.61	0.058	36.99	-19.38	15.46	0.035	34.77	-19.31	
		680.5	H	135.0	322.0	3.19	1 / 12	15.17	18.35	0.068	36.99	-18.64	16.20	0.042	34.77	-18.57	
		695.5	H	135.0	322.0	3.38	1 / 24	14.41	17.78	0.060	36.99	-19.20	15.63	0.037	34.77	-19.14	
20 MHz	WCP	680.5	H	135.0	322.0	3.19	1 / 12	14.48	17.66	0.058	36.99	-19.33	15.51	0.036	34.77	-19.26	
		Opposite Pol.	680.5	V	100.0	15.0	3.19	1 / 99	14.19	17.38	0.055	36.99	-19.61	15.23	0.033	34.77	-19.54
		Closed	680.5	H	211.0	168.0	3.19	1 / 99	12.66	15.85	0.038	36.99	-21.14	13.70	0.023	34.77	-21.07
20 MHz	WCP	680.5	H	139.0	189.0	3.19	1 / 99	13.20	16.39	0.044	36.99	-20.60	14.24	0.027	34.77	-20.53	

Table 7-6. ERP Data (LTE Band 71 – AntA)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	
10 MHz	QPSK	704.0	V	198.0	22.0	4.58	1 / 0	15.70	20.28	0.107	36.99	-16.71	18.13	0.065	34.77	-16.64	
		707.5	V	199.0	21.0	4.62	1 / 25	15.87	20.49	0.112	36.99	-16.50	18.34	0.068	34.77	-16.43	
		711.0	V	212.0	192.0	4.67	1 / 0	15.54	20.21	0.105	36.99	-16.78	18.06	0.064	34.77	-16.71	
5 MHz	QPSK	711.0	V	212.0	192.0	4.67	1 / 0	15.29	19.96	0.099	36.99	-17.03	17.81	0.060	34.77	-16.96	
		701.5	V	198.0	22.0	4.60	1 / 0	15.62	20.21	0.105	36.99	-16.77	18.06	0.064	34.77	-16.71	
		707.5	V	199.0	21.0	4.62	1 / 12	16.04	20.66	0.116	36.99	-16.33	18.51	0.071	34.77	-16.26	
3 MHz	QPSK	713.5	V	212.0	192.0	4.70	1 / 12	15.52	20.22	0.105	36.99	-16.77	18.07	0.064	34.77	-16.70	
		713.5	V	212.0	192.0	4.70	1 / 12	15.01	19.71	0.093	36.99	-17.28	17.56	0.057	34.77	-17.21	
		700.5	V	198.0	22.0	4.59	1 / 0	15.48	20.06	0.101	36.99	-16.93	17.91	0.062	34.77	-16.86	
1.4 MHz	QPSK	707.5	V	199.0	21.0	4.62	1 / 14	15.90	20.52	0.113	36.99	-16.47	18.37	0.069	34.77	-16.40	
		714.5	V	212.0	192.0	4.71	1 / 7	15.30	20.01	0.100	36.99	-16.98	17.86	0.061	34.77	-16.92	
		714.5	V	212.0	192.0	4.71	1 / 7	15.33	20.04	0.101	36.99	-16.95	17.89	0.062	34.77	-16.88	
5 MHz	QPSK	699.7	V	198.0	22.0	4.56	1 / 3	15.57	20.12	0.103	36.99	-16.87	17.97	0.063	34.77	-16.80	
		707.5	V	199.0	21.0	4.62	1 / 5	15.74	20.37	0.109	36.99	-16.62	18.22	0.066	34.77	-16.56	
		715.3	V	212.0	192.0	4.72	1 / 3	15.38	20.10	0.102	36.99	-16.89	17.95	0.062	34.77	-16.82	
5 MHz	WCP	715.3	V	212.0	192.0	4.72	1 / 3	15.07	19.78	0.095	36.99	-17.20	17.63	0.058	34.77	-17.14	
		Opposite Pol.	707.5	H	100.0	333.0	4.62	1 / 12	11.89	16.51	0.045	36.99	-20.48	14.36	0.027	34.77	-20.41
		Closed	707.5	V	344.0	226.0	4.62	1 / 12	13.00	17.62	0.058	36.99	-19.37	15.47	0.035	34.77	-19.30
5 MHz	WCP	707.5	V	244.0	11.0	4.62	1 / 12	12.84	17.46	0.056	36.99	-19.53	15.31	0.034	34.77	-19.46	

Table 7-7. ERP Data (LTE Band 12 – AntA + AntB)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset	Page 230 of 276	

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.0	H	145.0	321.0	3.58	1 / 0	14.06	17.64	0.058	36.99	-19.35	15.49	0.035	34.77	-19.28
		707.5	H	302.0	327.0	3.72	1 / 0	13.67	17.39	0.055	36.99	-19.60	15.24	0.033	34.77	-19.53
		711.0	H	277.0	323.0	3.67	1 / 49	13.80	17.47	0.056	36.99	-19.52	15.32	0.034	34.77	-19.45
	16-QAM	707.5	H	302.0	327.0	3.72	1 / 0	13.44	17.16	0.052	36.99	-19.83	15.01	0.032	34.77	-19.76
5 MHz	QPSK	701.5	H	145.0	321.0	3.45	1 / 12	14.07	17.52	0.056	36.99	-19.47	15.37	0.034	34.77	-19.40
		707.5	H	302.0	327.0	3.72	1 / 0	13.60	17.33	0.054	36.99	-19.66	15.18	0.033	34.77	-19.59
		713.5	H	277.0	323.0	3.70	1 / 12	13.93	17.63	0.058	36.99	-19.36	15.48	0.035	34.77	-19.29
	16-QAM	701.5	H	145.0	321.0	3.45	1 / 12	13.34	16.79	0.048	36.99	-20.20	14.64	0.029	34.77	-20.13
3 MHz	QPSK	700.5	H	145.0	321.0	3.44	1 / 7	14.33	17.77	0.060	36.99	-19.22	15.62	0.036	34.77	-19.15
		707.5	H	302.0	327.0	3.72	1 / 0	13.45	17.18	0.052	36.99	-19.81	15.03	0.032	34.77	-19.75
		714.5	H	277.0	323.0	3.71	1 / 14	13.79	17.50	0.056	36.99	-19.49	15.35	0.034	34.77	-19.43
	16-QAM	714.5	H	277.0	323.0	3.71	1 / 14	13.02	16.73	0.047	36.99	-20.26	14.58	0.029	34.77	-20.19
1.4 MHz	QPSK	699.7	H	145.0	321.0	3.43	1 / 3	14.14	17.57	0.057	36.99	-19.42	15.42	0.035	34.77	-19.35
		707.5	H	302.0	327.0	3.72	1 / 3	13.51	17.24	0.053	36.99	-19.75	15.09	0.032	34.77	-19.68
		715.3	H	277.0	323.0	3.72	1 / 5	13.62	17.34	0.054	36.99	-19.65	15.19	0.033	34.77	-19.58
	16-QAM	707.5	H	302.0	327.0	3.72	1 / 5	13.32	17.04	0.051	36.99	-19.95	14.89	0.031	34.77	-19.88
10 MHz	Opposite Pol.	704.0	V	272.0	42.0	3.58	1 / 0	12.14	15.72	0.037	36.99	-21.27	13.57	0.023	34.77	-21.20
	Closed	704.0	H	199.0	210.0	3.58	1 / 0	10.79	14.37	0.027	36.99	-22.62	12.22	0.017	34.77	-22.55
	WCP	704.0	H	159.0	66.0	3.58	1 / 0	11.20	14.78	0.030	36.99	-22.21	12.63	0.018	34.77	-22.14

Table 7-8. ERP Data (LTE Band 12 – AntA)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.0	H	104.0	329.0	5.79	1 / 0	15.49	21.28	0.134	36.99	-15.71	19.13	0.082	34.77	-15.64
	16-QAM	782.0	H	104.0	329.0	5.79	1 / 0	12.74	18.53	0.071	36.99	-18.46	16.38	0.043	34.77	-18.39
5 MHz	QPSK	779.5	H	104.0	329.0	5.77	1 / 24	15.58	21.35	0.136	36.99	-15.64	19.20	0.083	34.77	-15.57
		782.0	H	104.0	329.0	5.79	1 / 12	15.54	21.33	0.136	36.99	-15.66	19.18	0.083	34.77	-15.59
		784.5	H	104.0	329.0	5.82	1 / 24	15.77	21.59	0.144	36.99	-15.40	19.44	0.088	34.77	-15.33
	16-QAM	782.0	H	104.0	329.0	5.79	1 / 12	13.01	18.80	0.076	36.99	-18.19	16.65	0.046	34.77	-18.12
10 MHz	Opposite Pol.	782.0	V	150.0	179.0	5.79	1 / 0	12.31	18.10	0.065	36.99	-18.89	15.95	0.039	34.77	-18.82
	Closed	782.0	H	189.0	222.0	5.79	1 / 0	12.89	18.68	0.074	36.99	-18.31	16.53	0.045	34.77	-18.24
	WCP	782.0	V	111.0	201.0	5.79	1 / 0	10.62	16.41	0.044	36.99	-20.58	14.26	0.027	34.77	-20.51

Table 7-9. ERP Data (LTE Band 13 – AntA + AntB)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.0	H	232.0	149.0	6.11	1 / 0	12.35	18.46	0.070	36.99	-18.53	16.31	0.043	34.77	-18.47
	16-QAM	782.0	H	232.0	149.0	6.11	1 / 0	11.76	17.87	0.061	36.99	-19.12	15.72	0.037	34.77	-19.06
5 MHz	QPSK	779.5	H	232.0	149.0	6.00	1 / 24	12.52	18.52	0.071	36.99	-18.47	16.37	0.043	34.77	-18.40
		782.0	H	232.0	149.0	6.11	1 / 12	12.40	18.51	0.071	36.99	-18.48	16.36	0.043	34.77	-18.42
		784.5	H	232.0	149.0	6.23	1 / 24	12.54	18.76	0.075	36.99	-18.23	16.61	0.046	34.77	-18.16
	16-QAM	782.0	H	232.0	149.0	6.11	1 / 12	12.03	18.13	0.065	36.99	-18.86	15.98	0.040	34.77	-18.79
10 MHz	Opposite Pol.	782.0	V	220.0	206.0	6.11	1 / 0	9.11	15.22	0.033	36.99	-21.77	13.07	0.020	34.77	-21.71
	Closed	782.0	V	214.0	222.0	6.11	1 / 0	8.88	14.99	0.032	36.99	-22.00	12.84	0.019	34.77	-21.94
	WCP	782.0	H	116.0	278.0	6.11	1 / 0	8.92	15.03	0.032	36.99	-21.96	12.88	0.019	34.77	-21.90

Table 7-10. ERP Data (LTE Band 13 – AntA)

FCC ID: A3LSMF926U		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 231 of 276

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	673.0	H	295.0	310.0	3.09	1 / 79	14.40	17.49	0.056	36.99	-19.50	15.34	0.034	34.77	-19.43
		680.5	H	303.0	311.0	3.19	1 / 79	14.72	17.91	0.062	36.99	-19.08	15.76	0.038	34.77	-19.02
		688.0	H	303.0	324.0	3.28	1 / 79	15.30	18.58	0.072	36.99	-18.41	16.43	0.044	34.77	-18.34
	QPSK	673.0	H	295.0	310.0	3.09	1 / 79	14.33	17.42	0.055	36.99	-19.57	15.27	0.034	34.77	-19.50
		680.5	H	303.0	311.0	3.19	1 / 79	14.47	17.86	0.058	36.99	-19.33	15.51	0.036	34.77	-19.27
		688.0	H	303.0	324.0	3.28	1 / 79	15.26	18.54	0.071	36.99	-18.45	16.39	0.044	34.77	-18.38
15 MHz	π/2 BPSK	688.0	H	303.0	324.0	3.28	1 / 79	14.17	17.45	0.056	36.99	-19.54	15.30	0.034	34.77	-19.47
		670.5	H	295.0	310.0	3.06	1 / 20	14.41	17.47	0.056	36.99	-19.52	15.32	0.034	34.77	-19.45
		680.5	H	303.0	311.0	3.19	1 / 20	14.93	18.12	0.065	36.99	-18.87	15.97	0.040	34.77	-18.80
	QPSK	690.5	H	303.0	324.0	3.31	1 / 58	15.28	18.60	0.072	36.99	-18.39	16.45	0.044	34.77	-18.33
		670.5	H	295.0	310.0	3.06	1 / 20	14.39	17.44	0.056	36.99	-19.54	15.29	0.034	34.77	-19.48
		680.5	H	303.0	311.0	3.19	1 / 20	14.53	17.72	0.059	36.99	-19.27	15.57	0.036	34.77	-19.20
10 MHz	π/2 BPSK	690.5	H	303.0	324.0	3.31	1 / 58	15.15	18.47	0.070	36.99	-18.52	16.32	0.043	34.77	-18.45
		690.5	H	303.0	324.0	3.31	1 / 58	13.86	17.17	0.052	36.99	-19.81	15.02	0.032	34.77	-19.75
		668.0	H	295.0	310.0	3.02	1 / 26	14.34	17.37	0.055	36.99	-19.62	15.22	0.033	34.77	-19.56
	QPSK	680.5	H	303.0	311.0	3.19	1 / 13	14.53	17.71	0.059	36.99	-19.28	15.56	0.036	34.77	-19.21
		693.0	H	303.0	324.0	3.34	1 / 38	15.36	18.70	0.074	36.99	-18.29	16.55	0.045	34.77	-18.22
		668.0	H	295.0	310.0	3.02	1 / 26	14.60	17.62	0.058	36.99	-19.37	15.47	0.035	34.77	-19.30
5 MHz	π/2 BPSK	680.5	H	303.0	311.0	3.19	1 / 13	14.57	17.75	0.060	36.99	-19.24	15.60	0.036	34.77	-19.17
		693.0	H	303.0	324.0	3.34	1 / 38	15.24	18.58	0.072	36.99	-18.41	16.43	0.044	34.77	-18.34
		693.0	H	303.0	324.0	3.34	1 / 38	13.85	17.19	0.052	36.99	-19.80	15.04	0.032	34.77	-19.73
	QPSK	665.5	H	295.0	310.0	2.99	1 / 6	14.82	17.81	0.060	36.99	-19.18	15.66	0.037	34.77	-19.11
		680.5	H	303.0	311.0	3.19	1 / 6	14.95	18.14	0.065	36.99	-18.85	15.99	0.040	34.77	-18.78
		695.5	H	303.0	324.0	3.38	1 / 12	15.09	18.47	0.070	36.99	-18.52	16.32	0.043	34.77	-18.45
20 MHz	QPSK	665.5	H	295.0	310.0	2.99	1 / 6	14.61	17.60	0.058	36.99	-19.39	15.45	0.035	34.77	-19.32
		680.5	H	303.0	311.0	3.19	1 / 6	14.45	17.64	0.058	36.99	-19.35	15.49	0.035	34.77	-19.28
		695.5	H	303.0	324.0	3.38	1 / 12	15.00	18.38	0.069	36.99	-18.61	16.23	0.042	34.77	-18.55
	QPSK (CP-OFDM)	695.5	H	303.0	324.0	3.38	1 / 12	13.74	17.11	0.051	36.99	-19.88	14.96	0.031	34.77	-19.81
		688.0	H	300.0	318.0	3.28	1 / 18	14.13	17.41	0.055	36.99	-19.58	15.26	0.034	34.77	-19.51
		688.0	V	161.0	218.0	4.48	1 / 18	10.73	15.21	0.033	36.99	-21.78	13.06	0.020	34.77	-21.71
QPSK (Opposite Pol.)	688.0	V	152.0	299.0	4.48	1 / 18	12.58	17.06	0.051	36.99	-19.93	14.91	0.031	34.77	-19.86	
	Closed	688.0	V	150.0	295.0	4.61	1 / 12	10.89	15.50	0.035	36.99	-21.49	13.35	0.022	34.77	-21.42
QPSK (WCP)	688.0	H	153.0	272.0	3.28	1 / 18	8.42	11.70	0.015	36.99	-25.29	9.55	0.009	34.77	-25.22	

Table 7-11. EIRP Data (NR Band n71)

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	
15 MHz	π/2 BPSK	706.5	H	281.0	312.0	3.66	1 / 20	14.36	18.02	0.063	36.99	-18.97	15.87	0.039	34.77	-18.90	
		707.5	H	284.0	316.0	3.72	1 / 39	13.71	17.43	0.055	36.99	-19.56	15.28	0.034	34.77	-19.49	
		708.5	H	278.0	304.0	3.69	1 / 20	14.24	17.93	0.062	36.99	-19.06	15.78	0.038	34.77	-19.00	
	QPSK	706.5	H	281.0	312.0	3.66	1 / 20	14.46	18.12	0.065	36.99	-18.87	15.97	0.040	34.77	-18.80	
		707.5	H	284.0	316.0	3.72	1 / 39	14.01	17.73	0.059	36.99	-19.26	15.58	0.036	34.77	-19.19	
		708.5	H	278.0	304.0	3.69	1 / 20	14.24	17.93	0.062	36.99	-19.06	15.78	0.038	34.77	-19.00	
10 MHz	π/2 BPSK	706.5	H	281.0	312.0	3.66	1 / 39	13.27	16.93	0.049	36.99	-20.06	14.78	0.030	34.77	-19.99	
		704.0	H	281.0	312.0	3.58	1 / 26	14.33	17.91	0.062	36.99	-19.08	15.76	0.038	34.77	-19.01	
		707.5	H	284.0	316.0	3.72	1 / 26	13.60	17.32	0.054	36.99	-19.67	15.17	0.033	34.77	-19.60	
	QPSK	711.0	H	278.0	304.0	3.67	1 / 26	14.18	17.85	0.061	36.99	-19.14	15.70	0.037	34.77	-19.07	
		704.0	H	281.0	312.0	3.58	1 / 26	14.36	17.95	0.062	36.99	-19.04	15.80	0.038	34.77	-18.98	
		707.5	H	284.0	316.0	3.72	1 / 26	13.95	17.67	0.059	36.99	-19.32	15.52	0.036	34.77	-19.25	
5 MHz	π/2 BPSK	711.0	H	278.0	304.0	3.67	1 / 26	14.29	17.96	0.062	36.99	-19.03	15.81	0.038	34.77	-18.96	
		704.0	H	281.0	312.0	3.58	1 / 26	13.32	16.90	0.049	36.99	-20.09	14.75	0.030	34.77	-20.02	
		701.5	H	281.0	312.0	3.45	1 / 18	14.36	17.81	0.060	36.99	-19.18	15.66	0.037	34.77	-19.11	
	QPSK	707.5	H	284.0	316.0	3.72	1 / 12	13.64	17.37	0.055	36.99	-19.62	15.22	0.033	34.77	-19.55	
		713.5	H	278.0	304.0	3.70	1 / 12	14.04	17.74	0.059	36.99	-19.25	15.59	0.036	34.77	-19.18	
		701.5	H	281.0	312.0	3.45	1 / 18	14.44	17.89	0.061	36.99	-19.10	15.74	0.037	34.77	-19.03	
15 MHz	QPSK	707.5	H	284.0	316.0	3.72	1 / 12	13.98	17.70	0.059	36.99	-19.29	15.55	0.036	34.77	-19.22	
		713.5	H	278.0	304.0	3.70	1 / 12	14.01	17.70	0.059	36.99	-19.29	15.55	0.036	34.77	-19.22	
		701.5	H	281.0	312.0	3.45	1 / 18	13.34	16.79	0.048	36.99	-20.20	14.64	0.029	34.77	-20.13	
	QPSK (CP-OFDM)	706.5	H	281.0	305.0	3.66	1 / 6	12.81	16.47	0.044	36.99	-20.52	14.32	0.027	34.77	-20.45	
		QPSK (Opposite Pol.)	706.5	V	145.0	38.0	4.61	1 / 18	13.26	17.87	0.061	36.99	-19.12	15.72	0.037	34.77	-19.05
		Closed	706.5	V	150.0	295.0	4.61	1 / 12	10.89	15.50	0.035	36.99	-21.49	13.35	0.022	34.77	-21.42
QPSK (WCP)	706.5	H	278.0	104.0	3.66	25 / 0	15.10	18.76	0.075	36.99	-18.23	16.61	0.046	34.77	-18.16		

Table 7-12. EIRP Data (NR Band n12)

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]
1712.40	WCDMA1700	H	106	321	15.06	9.37	24.43	0.277	30.00	-5.57
1732.60	WCDMA1700	H	101	317	14.55	9.22	23.77	0.238	30.00	-6.23
1752.60	WCDMA1700	H	104	322	14.89	9.11	24.00	0.251	30.00	-6.00
1712.40	WCDMA1700	V	255	69	14.02	9.37	23.39	0.218	30.00	-6.61
1712.40	WCDMA1700 (Closed)	H	151	67	11.33	9.37	20.70	0.117	30.00	-9.30
1712.40	WCDMA1700 (WCP)	H	243	22	13.66	9.37	23.03	0.201	30.00	-6.97

Table 7-13. EIRP Data (WCDMA AWS)

FCC ID: A3LSMF926U		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 232 of 276

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	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	1720.0	H	118.0	144.0	9.41	1 / 99	16.01	25.42	0.349	30.00	-4.58
		1745.0	H	109.0	136.0	9.26	1 / 50	15.63	24.89	0.308	30.00	-5.11
		1770.0	H	158.0	146.0	9.27	1 / 0	16.18	25.45	0.351	30.00	-4.55
	16-QAM	1720.0	H	118.0	144.0	9.41	1 / 99	15.65	25.06	0.321	30.00	-4.94
15 MHz	QPSK	1717.5	H	118.0	144.0	9.43	1 / 37	16.04	25.47	0.352	30.00	-4.53
		1745.0	H	109.0	136.0	9.26	1 / 37	15.65	24.91	0.310	30.00	-5.09
		1772.5	H	158.0	146.0	9.27	1 / 0	16.04	25.32	0.340	30.00	-4.68
	16-QAM	1717.5	H	118.0	144.0	9.43	1 / 37	16.03	25.46	0.351	30.00	-4.54
10 MHz	QPSK	1715.0	H	118.0	144.0	9.44	1 / 25	15.97	25.42	0.348	30.00	-4.58
		1745.0	H	109.0	136.0	9.26	1 / 25	15.66	24.92	0.311	30.00	-5.08
		1775.0	H	158.0	146.0	9.28	1 / 25	16.17	25.45	0.351	30.00	-4.55
	16-QAM	1715.0	H	118.0	144.0	9.44	1 / 25	15.86	25.31	0.340	30.00	-4.69
5 MHz	QPSK	1712.5	H	118.0	144.0	9.46	1 / 0	16.17	25.63	0.366	30.00	-4.37
		1745.0	H	109.0	136.0	9.26	1 / 12	15.73	24.99	0.316	30.00	-5.01
		1777.5	H	158.0	146.0	9.28	1 / 0	16.17	25.45	0.351	30.00	-4.55
	16-QAM	1712.5	H	118.0	144.0	9.46	1 / 0	15.75	25.21	0.332	30.00	-4.79
3 MHz	QPSK	1711.5	H	118.0	144.0	9.47	1 / 0	16.04	25.51	0.356	30.00	-4.49
		1745.0	H	109.0	136.0	9.26	1 / 0	15.65	24.91	0.310	30.00	-5.09
		1778.5	H	158.0	146.0	9.28	1 / 0	16.13	25.41	0.348	30.00	-4.59
	16-QAM	1711.5	H	118.0	144.0	9.47	1 / 0	15.83	25.29	0.338	30.00	-4.71
1.4 MHz	QPSK	1710.7	H	118.0	144.0	9.47	1 / 5	15.92	25.39	0.346	30.00	-4.61
		1745.0	H	109.0	136.0	9.26	1 / 3	15.70	24.96	0.313	30.00	-5.04
		1779.3	H	158.0	146.0	9.29	1 / 5	15.96	25.25	0.335	30.00	-4.75
	16-QAM	1710.7	H	118.0	144.0	9.47	1 / 5	15.61	25.08	0.322	30.00	-4.92
20 MHz	Opposite Pol.	1770.0	V	115.0	259.0	9.17	1 / 0	12.61	21.78	0.151	30.00	-8.22
	Closed	1770.0	H	211.0	219.0	9.17	1 / 0	15.36	24.53	0.284	30.00	-5.47
	WCP	1770.0	H	102.0	147.0	9.27	1 / 0	15.06	24.33	0.271	30.00	-5.67

Table 7-14. EIRP Data (LTE Band 66/4)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 233 of 276

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	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	1730.0	H	138.0	130.0	9.35	1 / 54	14.48	23.83	0.242	30.00	-6.17
		1745.0	H	171.0	132.0	9.26	1 / 161	14.40	23.66	0.232	30.00	-6.34
		1760.0	H	126.0	133.0	9.25	1 / 108	14.46	23.71	0.235	30.00	-6.29
	QPSK	1730.0	H	138.0	130.0	9.35	1 / 54	14.59	23.94	0.248	30.00	-6.06
		1745.0	H	171.0	132.0	9.26	1 / 161	14.49	23.75	0.237	30.00	-6.25
		1760.0	H	126.0	133.0	9.25	1 / 108	14.72	23.97	0.249	30.00	-6.03
16-QAM	1760.0	H	126.0	133.0	9.25	1 / 108	13.86	23.11	0.205	30.00	-6.89	
30 MHz	π/2 BPSK	1725.0	H	138.0	130.0	9.38	1 / 80	14.25	23.63	0.231	30.00	-6.37
		1745.0	H	171.0	132.0	9.26	1 / 40	14.48	23.74	0.236	30.00	-6.26
		1765.0	H	126.0	133.0	9.26	1 / 119	14.51	23.77	0.238	30.00	-6.23
	QPSK	1725.0	H	138.0	130.0	9.38	1 / 80	14.68	24.06	0.255	30.00	-5.94
		1745.0	H	171.0	132.0	9.26	1 / 40	14.73	23.99	0.251	30.00	-6.01
		1765.0	H	126.0	133.0	9.26	1 / 119	14.96	24.22	0.264	30.00	-5.78
16-QAM	1745.0	H	171.0	132.0	9.26	1 / 40	13.63	22.89	0.195	30.00	-7.11	
20 MHz	π/2 BPSK	1720.0	H	138.0	130.0	9.41	1 / 79	13.53	22.95	0.197	30.00	-7.05
		1745.0	H	171.0	132.0	9.26	1 / 53	13.40	22.66	0.184	30.00	-7.34
		1770.0	H	126.0	133.0	9.27	1 / 26	13.30	22.57	0.181	30.00	-7.43
	QPSK	1720.0	H	138.0	130.0	9.41	1 / 79	13.77	23.19	0.208	30.00	-6.81
		1745.0	H	171.0	132.0	9.26	1 / 53	13.45	22.71	0.186	30.00	-7.29
		1770.0	H	126.0	133.0	9.27	1 / 26	13.67	22.94	0.197	30.00	-7.06
16-QAM	1720.0	H	138.0	130.0	9.41	1 / 79	12.69	22.10	0.162	30.00	-7.90	
15 MHz	π/2 BPSK	1717.5	H	138.0	130.0	9.43	1 / 20	13.57	23.00	0.199	30.00	-7.00
		1745.0	H	171.0	132.0	9.26	1 / 20	13.53	22.79	0.190	30.00	-7.21
		1772.5	H	126.0	133.0	9.27	1 / 20	13.41	22.68	0.185	30.00	-7.32
	QPSK	1717.5	H	138.0	130.0	9.43	1 / 20	13.87	23.30	0.214	30.00	-6.70
		1745.0	H	171.0	132.0	9.26	1 / 20	13.67	22.93	0.196	30.00	-7.07
		1772.5	H	126.0	133.0	9.27	1 / 20	13.66	22.93	0.196	30.00	-7.07
16-QAM	1717.5	H	138.0	130.0	9.43	1 / 20	12.86	22.29	0.169	30.00	-7.71	
10 MHz	π/2 BPSK	1715.0	H	138.0	130.0	9.44	1 / 26	13.61	23.05	0.202	30.00	-6.95
		1745.0	H	171.0	132.0	9.26	1 / 26	13.44	22.70	0.186	30.00	-7.30
		1775.0	H	126.0	133.0	9.28	1 / 13	13.38	22.65	0.184	30.00	-7.35
	QPSK	1715.0	H	138.0	130.0	9.44	1 / 26	13.69	23.14	0.206	30.00	-6.86
		1745.0	H	171.0	132.0	9.26	1 / 26	13.67	22.93	0.196	30.00	-7.07
		1775.0	H	126.0	133.0	9.28	1 / 13	13.60	22.87	0.194	30.00	-7.13
16-QAM	1715.0	H	138.0	130.0	9.44	1 / 26	12.88	22.33	0.171	30.00	-7.67	
5 MHz	π/2 BPSK	1712.5	H	138.0	130.0	9.46	1 / 12	13.53	22.99	0.199	30.00	-7.01
		1745.0	H	171.0	132.0	9.26	1 / 18	13.56	22.82	0.192	30.00	-7.18
		1777.5	H	126.0	133.0	9.28	1 / 18	13.32	22.60	0.182	30.00	-7.40
	QPSK	1712.5	H	138.0	130.0	9.46	1 / 12	13.68	23.14	0.206	30.00	-6.86
		1745.0	H	171.0	132.0	9.26	1 / 18	13.53	22.79	0.190	30.00	-7.21
		1777.5	H	126.0	133.0	9.28	1 / 18	13.39	22.68	0.185	30.00	-7.32
16-QAM	1712.5	H	138.0	130.0	9.46	1 / 12	12.73	22.19	0.166	30.00	-7.81	
40 MHz	QPSK (CP-OFDM)	1760.0	H	126.0	133.0	9.25	1 / 108	13.75	23.00	0.199	30.00	-7.00
	QPSK (Opposite Pol.)	1760.0	V	241.0	226.0	9.25	1 / 108	11.73	20.98	0.125	30.00	-9.02
	Closed	1760.0	H	129.0	159.0	9.25	1 / 108	10.83	20.08	0.102	30.00	-9.92
	QPSK (WCP)	1760.0	V	222.0	169.0	9.25	1 / 108	10.84	20.09	0.102	30.00	-9.91

Table 7-15. EIRP Data (NR Band n66 – AntB)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	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	1730.0	H	106.0	53.0	9.35	1 / 54	13.00	22.35	0.172	30.00	-7.65
		1745.0	H	127.0	51.0	9.26	1 / 108	13.02	22.28	0.169	30.00	-7.72
		1760.0	H	176.0	58.0	9.25	1 / 54	13.49	22.74	0.188	30.00	-7.26
	QPSK	1730.0	H	106.0	53.0	9.35	1 / 54	12.84	22.19	0.166	30.00	-7.81
		1745.0	H	127.0	51.0	9.26	1 / 108	12.78	22.04	0.160	30.00	-7.96
		1760.0	H	176.0	58.0	9.25	1 / 54	13.19	22.44	0.175	30.00	-7.56
16-QAM	1730.0	H	106.0	53.0	9.35	1 / 54	11.99	21.34	0.136	30.00	-8.66	
30 MHz	π/2 BPSK	1725.0	H	106.0	53.0	9.38	1 / 40	13.25	22.64	0.184	30.00	-7.36
		1745.0	H	127.0	51.0	9.26	1 / 80	13.87	23.13	0.205	30.00	-6.87
		1765.0	H	176.0	58.0	9.26	1 / 40	13.57	22.83	0.192	30.00	-7.17
	QPSK	1725.0	H	106.0	53.0	9.38	1 / 40	12.85	22.24	0.167	30.00	-7.76
		1745.0	H	127.0	51.0	9.26	1 / 80	13.55	22.81	0.191	30.00	-7.19
		1765.0	H	176.0	58.0	9.26	1 / 40	13.27	22.53	0.179	30.00	-7.47
16-QAM	1765.0	H	176.0	58.0	9.26	1 / 40	12.25	21.51	0.142	30.00	-8.49	
20 MHz	π/2 BPSK	1720.0	H	106.0	53.0	9.41	1 / 79	13.05	22.46	0.176	30.00	-7.54
		1745.0	H	127.0	51.0	9.26	1 / 79	13.78	23.04	0.201	30.00	-6.96
		1770.0	H	176.0	58.0	9.27	1 / 26	13.33	22.60	0.182	30.00	-7.40
	QPSK	1720.0	H	106.0	53.0	9.41	1 / 79	11.99	21.40	0.138	30.00	-8.60
		1745.0	H	127.0	51.0	9.26	1 / 79	13.12	22.38	0.173	30.00	-7.62
		1770.0	H	176.0	58.0	9.27	1 / 26	11.94	21.21	0.132	30.00	-8.79
16-QAM	1720.0	H	106.0	53.0	9.41	1 / 79	10.85	20.27	0.106	30.00	-9.73	
15 MHz	π/2 BPSK	1717.5	H	106.0	53.0	9.43	1 / 20	13.09	22.52	0.179	30.00	-7.48
		1745.0	H	127.0	51.0	9.26	1 / 58	13.90	23.16	0.207	30.00	-6.84
		1772.5	H	176.0	58.0	9.27	1 / 20	13.36	22.63	0.183	30.00	-7.37
	QPSK	1717.5	H	106.0	53.0	9.43	1 / 20	12.51	21.94	0.156	30.00	-8.06
		1745.0	H	127.0	51.0	9.26	1 / 58	13.45	22.71	0.187	30.00	-7.29
		1772.5	H	176.0	58.0	9.27	1 / 20	12.37	21.65	0.146	30.00	-8.35
16-QAM	1717.5	H	106.0	53.0	9.43	1 / 20	11.72	21.15	0.130	30.00	-8.85	
10 MHz	π/2 BPSK	1715.0	H	106.0	53.0	9.44	1 / 38	13.09	22.53	0.179	30.00	-7.47
		1745.0	H	127.0	51.0	9.26	1 / 13	13.97	23.24	0.211	30.00	-6.76
		1775.0	H	176.0	58.0	9.28	1 / 13	13.37	22.65	0.184	30.00	-7.35
	QPSK	1715.0	H	106.0	53.0	9.44	1 / 38	12.44	21.88	0.154	30.00	-8.12
		1745.0	H	127.0	51.0	9.26	1 / 13	13.59	22.85	0.193	30.00	-7.15
		1775.0	H	176.0	58.0	9.28	1 / 13	12.41	21.68	0.147	30.00	-8.32
16-QAM	1715.0	H	106.0	53.0	9.44	1 / 38	11.30	20.74	0.119	30.00	-9.26	
5 MHz	π/2 BPSK	1712.5	H	106.0	53.0	9.46	1 / 18	12.96	22.42	0.175	30.00	-7.58
		1745.0	H	127.0	51.0	9.26	1 / 12	13.88	23.14	0.206	30.00	-6.86
		1777.5	H	176.0	58.0	9.28	1 / 12	13.21	22.49	0.178	30.00	-7.51
	QPSK	1712.5	H	106.0	53.0	9.46	1 / 18	12.47	21.93	0.156	30.00	-8.07
		1745.0	H	127.0	51.0	9.26	1 / 12	13.70	22.96	0.198	30.00	-7.04
		1777.5	H	176.0	58.0	9.28	1 / 12	11.90	21.18	0.131	30.00	-8.82
16-QAM	1712.5	H	106.0	53.0	9.46	1 / 18	11.39	20.85	0.122	30.00	-9.15	
40	QPSK (CP-OFDM)	1760.0	H	176.0	58.0	9.26	1 / 54	11.63	20.89	0.123	30.00	-9.11
	QPSK (Opposite Pol.)	1760.0	V	132.0	17.0	9.26	1 / 54	11.33	20.59	0.115	30.00	-9.41
	QPSK (Closed)	1760.0	H	174.0	314.0	9.26	1 / 54	11.92	21.18	0.131	30.00	-8.82
	QPSK (WCP)	1760.0	H	104.0	221.0	9.26	1 / 54	12.82	22.08	0.161	30.00	-7.92

Table 7-16. EIRP Data (NR Band n66 – AntE)

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7.9 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions 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 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

ANSI/TIA-603-E-2016 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW \geq 3 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points \geq 2 x 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.

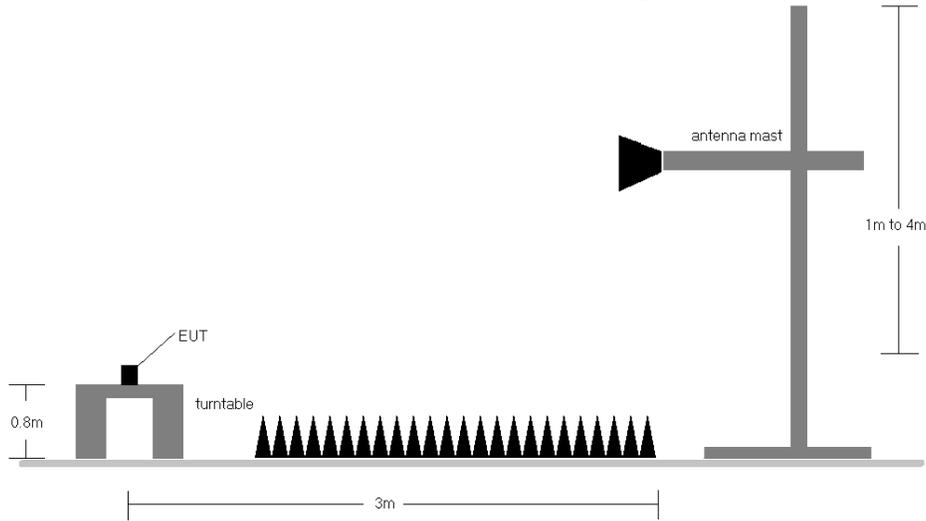


Figure 7-9. Test Instrument & Measurement Setup

Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
 - b) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - d) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) 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.
- 3) This unit was tested with its standard battery.
- 4) 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.
- 5) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 6) 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.
- 7) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 8) 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.
- 9) 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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