

7.6 Radiated Power (EIRP) §96.41(b)

Test Overview

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 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 its maximum duty cycle, 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 $\geq 2 \times \text{span} / \text{RBW}$
- 6. Detector = RMS
- 7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto".
- The integration bandwidth was set equal to 10MHz.
- 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.

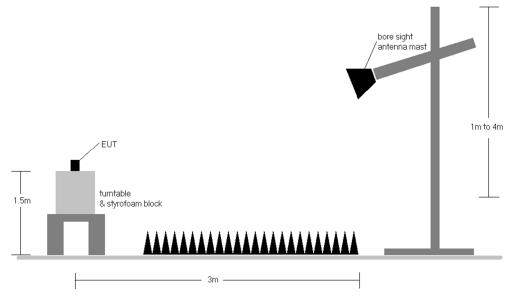


Figure 7-5. Radiated Test Setup >1GHz

Test Notes

- 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 worst case EIRP shown in this section is found with NR operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for NR Band 48 (i.e. 10, 20, 40MHz).

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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/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
	π/2 BPSK	3570.0	Н	101	227	7.27	1 / 79	13.82	21.09	0.129	23.00	-1.91
	π/2 BPSK	3625.0	Н	103	226	6.77	1 / 26	13.16	19.93	0.098	23.00	-3.07
	π/2 BPSK	3680.0	Н	103	225	6.25	1 / 26	14.32	20.57	0.114	23.00	-2.43
· 보	QPSK	3570.0	Н	101	227	7.27	1 / 79	13.59	20.86	0.122	23.00	-2.14
40 MHz	QPSK	3625.0	Н	103	226	6.77	1 / 53	13.84	20.61	0.115	23.00	-2.39
40	QPSK	3680.0	Н	103	225	6.25	1 / 53	14.25	20.50	0.112	23.00	-2.50
	16-QAM	3570.0	Н	101	227	7.27	1 / 79	12.48	19.75	0.094	23.00	-3.25
	16-QAM	3625.0	Н	103	226	6.77	1 / 53	12.53	19.30	0.085	23.00	-3.70
	16-QAM	3680.0	Н	103	225	6.25	1 / 26	13.03	19.28	0.085	23.00	-3.72
	π/2 BPSK	3560.0	Н	101	227	7.37	1/25	13.74	21.12	0.129	23.00	-1.88
	π/2 BPSK	3625.0	Н	103	226	6.77	1/13	13.35	20.12	0.103	23.00	-2.88
	π/2 BPSK	3690.0	Н	103	225	6.15	1/25	14.47	20.61	0.115	23.00	-2.39
· 보	QPSK	3560.0	Н	101	227	7.37	1/25	13.60	20.97	0.125	23.00	-2.03
20 MHz	QPSK	3625.0	Н	103	226	6.77	1/13	13.31	20.08	0.102	23.00	-2.92
20	QPSK	3690.0	Н	103	225	6.15	1/25	14.79	20.94	0.124	23.00	-2.06
	16-QAM	3560.0	Н	101	227	7.37	1/25	12.45	19.82	0.096	23.00	-3.18
	16-QAM	3625.0	Н	103	226	6.77	1/13	11.61	18.38	0.069	23.00	-4.62
	16-QAM	3690.0	Н	103	225	6.15	1/25	13.21	19.36	0.086	23.00	-3.64
	π/2 BPSK	3555.0	Н	101	227	7.43	1/17	13.59	21.02	0.126	23.00	-1.98
	π/2 BPSK	3625.0	Н	103	226	6.77	1/12	13.23	20.00	0.100	23.00	-3.00
	π/2 BPSK	3695.0	Н	103	225	6.09	1/17	14.37	20.46	0.111	23.00	-2.54
10 MHz	QPSK	3555.0	Н	101	227	7.43	1/17	12.66	20.08	0.102	23.00	-2.92
Σ	QPSK	3625.0	Н	103	226	6.77	1/12	13.42	20.19	0.104	23.00	-2.81
10	QPSK	3695.0	Н	103	225	6.09	1/17	14.19	20.28	0.107	23.00	-2.72
	16-QAM	3555.0	Н	101	227	7.43	1/17	10.50	17.93	0.062	23.00	-5.07
	16-QAM	3625.0	Н	103	226	6.77	1/12	11.99	18.76	0.075	23.00	-4.24
	16-QAM	3695.0	Н	103	225	6.09	1/17	12.36	18.45	0.070	23.00	-4.55
	QPSK (CP-OFDM)	3570.0	Н	101	227	7.27	1/53	12.20	19.47	0.089	23.00	-3.53
40 MHz	QPSK (Opposite Pol.)	3570.0	V	124	254	7.14	1/26	11.50	18.64	0.073	23.00	-4.36
	QPSK (WCP)	3570.0	Н	101	227	7.27	1/26	11.21	18.48	0.070	23.00	-4.52

Table 7-4. EIRP Data (NR Band n48)

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7.7 Radiated Spurious Emissions Measurements §2.1053 §96.41(e)(1)(ii) §96.41(e)(2)

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.

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 ≥ 2 x span / RBW
- 5. Detector = RMS
- 6. Trace mode = Max Hold (In cases where the level is within 2dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
- 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.

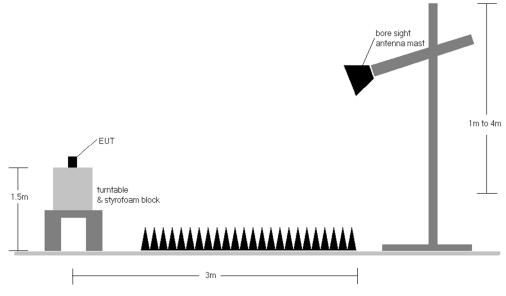


Figure 7-6. Test Instrument & Measurement Setup

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 4) Emissions below 18GHz were measured at a 3 meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 5) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 6) Per KDB 971168, Field Strength Level (dBμV/m) is converted to EIRP Spurious Emission Level (dBm) using the formula in Section 5.8.4 (d):

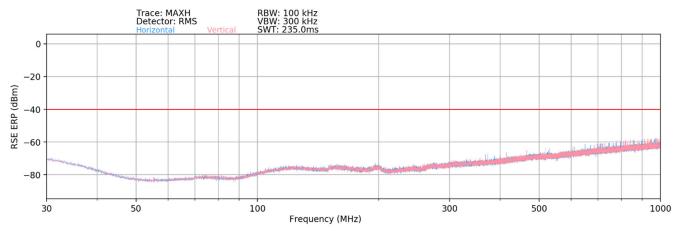
EIRP (dBm) = E (dB μ V/m) + 20 log D - 104.8; where D is the measurement distance in meters

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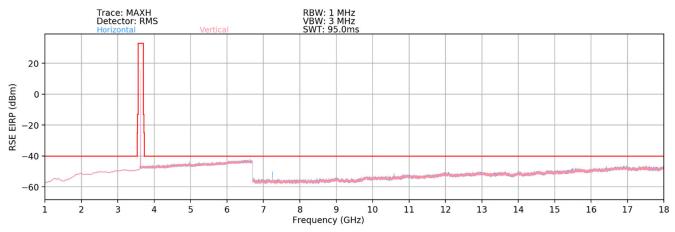
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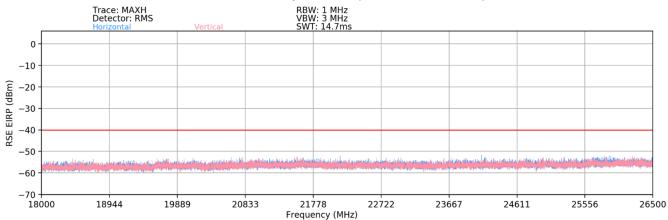
NR Band n48



Plot 7-31. Radiated Spurious Plot (NR Band n48 - 30Mhz-1GHz)



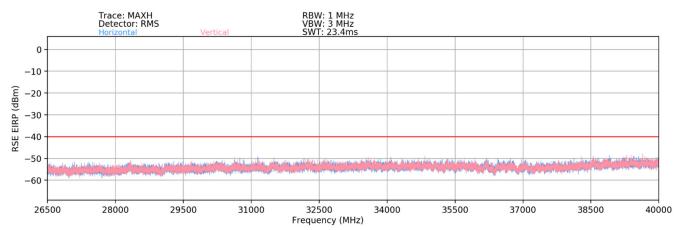
Plot 7-32. Radiated Spurious Plot (NR Band n48 - 1-18GHz)



Plot 7-33. Radiated Spurious Plot (NR Band n48 - 18-26.5GHz)

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Plot 7-34. Radiated Spurious Plot (NR Band n48 - 26.5-40GHz)

Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1/53

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]
7140.00	Н	233	339	-68.99	8.24	46.25	-49.01	-40.00	-9.01
10710.00	Н	-	-	-79.37	11.93	39.56	-55.70	-40.00	-15.70
14280.00	Н	-	-	-79.75	14.42	41.67	-53.58	-40.00	-13.58
17850.00	Н	-	-	-80.02	18.10	45.08	-50.17	-40.00	-10.17
21420.00	Н	-	-	-59.87	2.96	50.09	-54.71	-40.00	-14.71

Table 7-5. Radiated Spurious Data (NR Band n48 - Low Channel)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1/53

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]
7250.00	Н	222	323	-68.32	7.53	46.21	-49.05	-40.00	-9.05
10875.00	Н	-	-	-79.02	11.78	39.76	-55.50	-40.00	-15.50
14500.00	Н	-	-	-80.05	14.96	41.91	-53.35	-40.00	-13.35
18125.00	Н	-	-	-59.79	0.91	48.12	-56.68	-40.00	-16.68

Table 7-6. Radiated Spurious Data (NR Band n48 - Mid Channel)

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Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1/53

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]
7360.00	Н	145	358	-68.44	7.82	46.38	-48.88	-40.00	-8.88
11040.00	Н	-	-	-78.64	12.09	40.45	-54.81	-40.00	-14.81
14720.00	Н	-	-	-80.37	15.57	42.20	-53.06	-40.00	-13.06
18400.00	Н	-	-	-59.57	1.10	48.54	-56.26	-40.00	-16.26

Table 7-7. Radiated Spurious Data (NR Band n48 – High Channel)

Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1/53

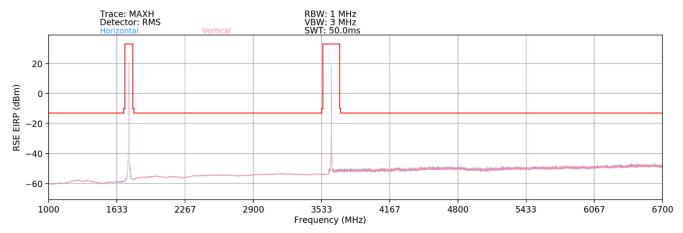
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7360.00	Н	124	88	-73.90	7.82	40.92	-54.34	-40.00	-14.34
11040.00	Н	-	-	-78.80	12.09	40.29	-54.97	-40.00	-14.97
14720.00	Н	-	-	-80.02	15.57	42.55	-52.71	-40.00	-12.71
18400.00	Н	-	-	-58.06	1.10	50.04	-54.76	-40.00	-14.76

Table 7-8. Radiated Spurious Data with WCP (NR Band n48)

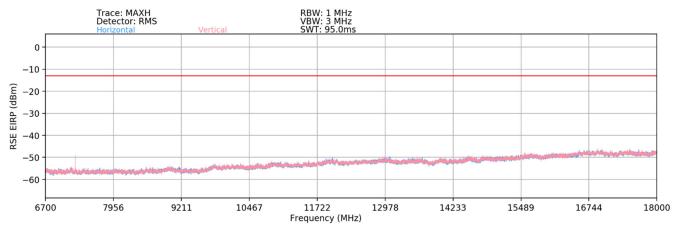
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EN-DC: NR Band n48 + Band 66



Plot 7-35. Radiated Spurious Plot (EN-DC: n48 - Band 66 - 1-6.7GHz)



Plot 7-36. Radiated Spurious Plot (EN-DC: n48 - Band 66 - 6.7-18GHz)

Case:	n48 - Band 66
Bandwidth (MHz):	3625 & 1745
Frequency (MHz):	40 & 20
Modulation Signal:	QPSK
RB Config (Size / Offset):	1/53 & 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]
7250.00	V	265	356	-68.82	7.53	45.71	-49.55	-13.00	-36.55
7385.00	V	-	=	-79.65	8.11	35.46	-59.80	-13.00	-46.80
9265.00	V	-	-	-80.39	9.41	36.02	-59.24	-13.00	-46.24
11145.00	V	-	-	-80.99	12.54	38.55	-56.71	-13.00	-43.71

Table 7-9. Radiated Spurious Data (EN-DC: n48 - Band 66)

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7.8 Frequency Stability / Temperature Variation §2.1055

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.

For Part 96, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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

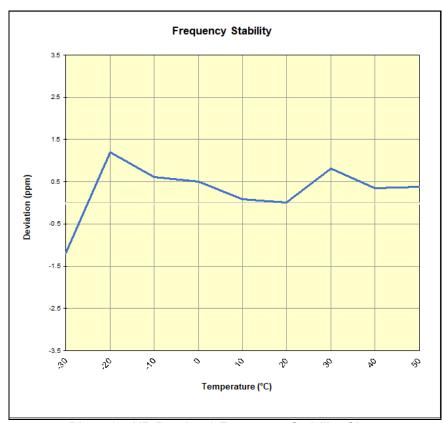
FCC ID: A3LSMG998U	PCTEST° Proud to be part of @ element	PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	SAMSUNG	Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band	NR Band n48									
	Operating Fre	quency (Hz):	3,625,00	00,000						
	Ref. Voltage (VDC):		4.1	8						
,										
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)					
		- 30	3,625,148,253	-4,359	-0.0001202					
		- 20	3,625,156,970	4,358	0.0001202					
		- 10	3,625,154,829	2,217	0.0000612					
		0	3,625,154,442	1,831	0.0000505					
100 %	4.18	+ 10	3,625,152,922	310	0.0000086					
		+ 20 (Ref)	3,625,152,612	0	0.0000000					
		+ 30	3,625,155,529	2,917	0.0000805					
		+ 40	3,625,153,898	1,286	0.0000355					
		+ 50	3,625,153,975	1,364	0.0000376					
Battery Endpoint	2.98	+ 20	3,625,154,010	1,398	0.0000386					

Table 7-10. NR Band n48 Frequency Stability Data



Plot 7-37. NR Band n48 Frequency Stability Chart

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7.9 End User Device Additional Requirement (CBSD Protocol) §96.47

Test Overview and Limit

End user device additional requirements (CBSD Protocol) are tested per the test procedures listed below. During testing, the EUT is connected to a certified 5G NR CBSD as a companion device to show compliance with Part 96.47.

End User Devices may operate only if they can positively receive and decode an authorization signal transmitted by a CBSD, including the frequencies and power limits for their operation.

An End User Device must discontinue operations, change frequencies, or change its operational power level within 10 seconds of receiving instructions from its associated CBSD.

Test Procedure Used

KDB 940660 D01 v03, WINNF-18-IN-00178 v1.0.0.00

Test Setup/Method

The EUT was connected via an RF cable to a certified 5G CBSD and spectrum analyzer. The following procedure is performed by applying WINNF-18-IN-00178 v1.0.0.00 CBRS End User Device as UUT Test Guidelines

- 1. Run#1:
 - a. Setup WINNF.PT.C.HBT.1 with 3615MHz 3635MHz.
 - b. Enable 5G AP service from CBSD.
 - c. Check EUT Tx frequency.
 - d. Disable AP service and check EUT stop transmission within 10s.
- 2. Run#2:
 - a. Setup WINNF.PT.C.HBT.1 with 3660MHz 3680MHz.
 - b. Enable 5G AP service from CBSD.
 - c. Check EUT Tx frequency.
 - d. Disable AP service and check EUT stop transmission within 10s.

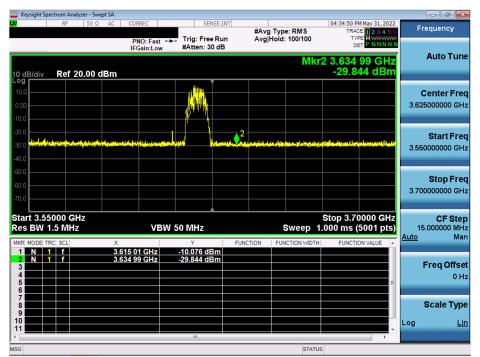
Test Notes

The EUT is an End User Device.

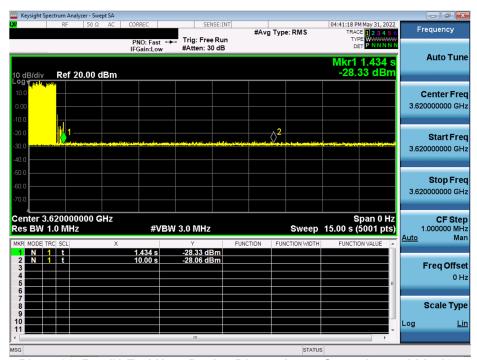
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Run#1:



Plot 7-38. Run#1 End User Device Frequency of Operations



Plot 7-39. Run#1 End User Device Discontinues Operations within 10s

Note:

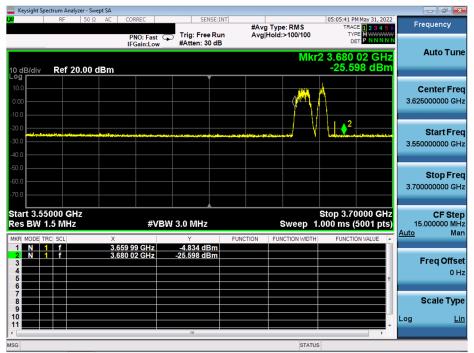
CBSD sends instructions to discontinue NR operations (beginning of plot at time = 0 seconds) Marker 1: EUT discontinues operation.

Marker 2: 10 seconds elapsed time from CBSD sending instructions to EUT.

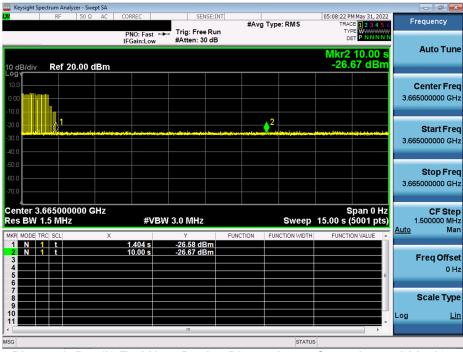
FCC ID: A3LSMG998U	Proud to be part of element	PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		D 45 -f 47	
1M2101110004-06.A3L	2/23/2022 - 3/1/2022, 05/31/2022	Portable Handset		Page 45 of 47	



Run#2:



Plot 7-40. Run#2 End User Device Frequency of Operations



Plot 7-41. Run#2 End User Device Discontinues Operations within 10s

Note:

CBSD sends instructions to discontinue NR operations (beginning of plot at time = 0 seconds) Marker 1: EUT discontinues operation.

Marker 2: 10 seconds elapsed time from CBSD sending instructions to EUT.

FCC ID: A3LSMG998U	Proud to be part of @ element	PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		D 40 -f 47	
1M2101110004-06.A3L	2/23/2022 - 3/1/2022, 05/31/2022	Portable Handset		Page 46 of 47	
O GOOD BOTTOT				1/0 0 4/0/0000	



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 of the End User Device requirements of Part 96 of the FCC Rules for NR operation.

FCC ID: A3LSMG998U	PCTEST° Proud to be part of @ element	PART 96 MEASUREMENT REPORT CLASS II PERMISSIVE CHANGE	SAMSUNG	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:		Page 47 of 47	
1M2101110004-06.A3L	2/23/2022 - 3/1/2022, 05/31/2022	Portable Handset			