

**NR Band n30**



Plot 7-108. Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB )



Plot 7-109. Extended Lower Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB )

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 78 of 129







Plot 7-114. Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB )



Plot 7-115. Extended Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB )

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 81 of 129

# NR Band n41



Plot 7-116. Lower ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB )



Plot 7-117. Upper ACP Plot (NR Band n41 - 100MHz CP-OFDM-QPSK – Full RB )

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
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Plot 7-118. Lower ACP Plot (NR Band n41 - 90MHz CP-OFDM-QPSK - Full RB )



Plot 7-119. Upper ACP Plot (NR Band n41 - 90MHz CP-OFDM-QPSK - Full RB )

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 83 of 129

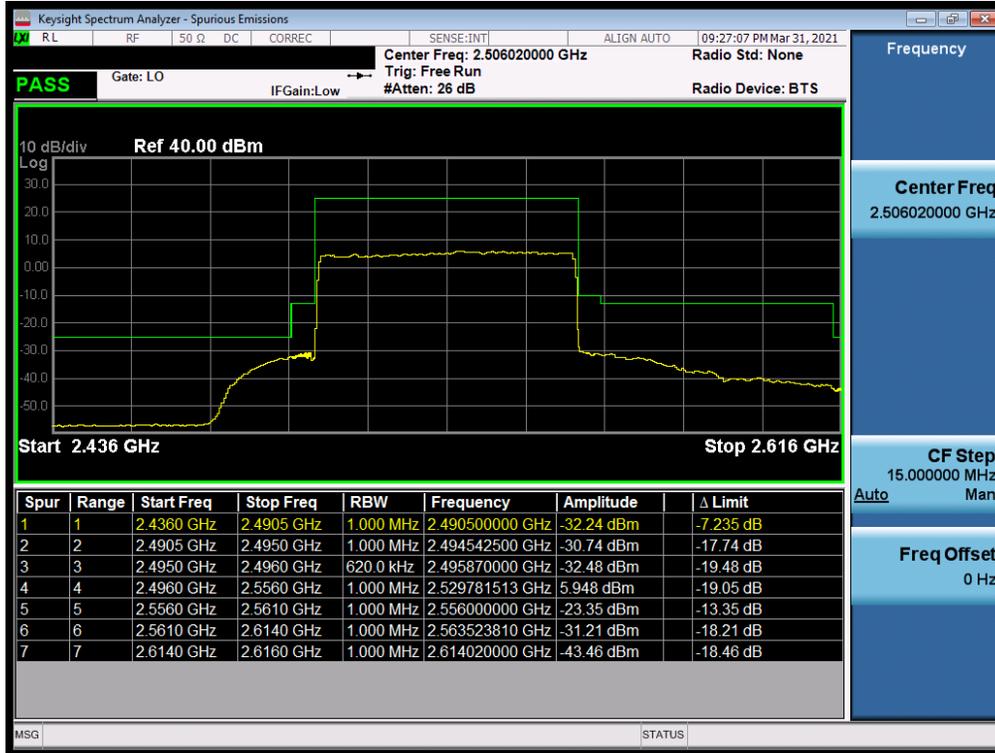


Plot 7-120. Lower ACP Plot (NR Band n41 - 80MHz CP-OFDM-QPSK - Full RB)



Plot 7-121. Upper ACP Plot (NR Band n41 - 80MHz CP-OFDM-QPSK - Full RB)

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of  element	<b>PART 27 MEASUREMENT REPORT</b>	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 84 of 129



Plot 7-122. Lower ACP Plot (NR Band n41 - 60MHz CP-OFDM-QPSK - Full RB )



Plot 7-123. Upper ACP Plot (NR Band n41 - 60MHz CP-OFDM-QPSK - Full RB )

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of  element	<b>PART 27 MEASUREMENT REPORT</b>	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 85 of 129

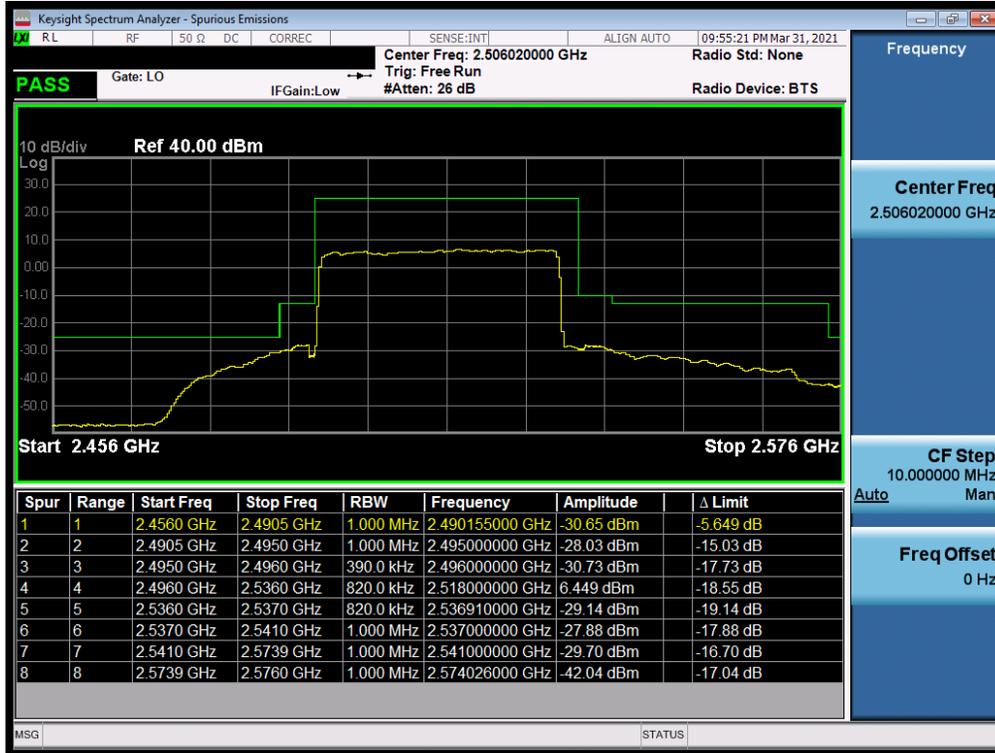


Plot 7-124. Lower ACP Plot (NR Band n41 - 50MHz CP-OFDM-QPSK - Full RB )

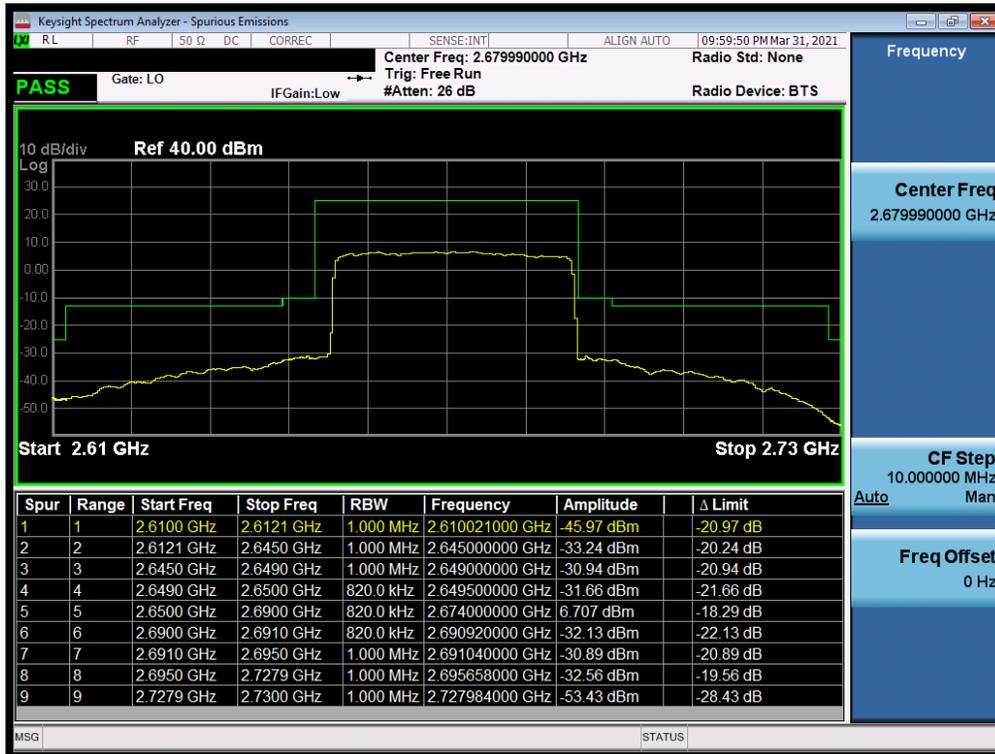


Plot 7-125. Upper ACP Plot (NR Band n41 - 50MHz CP-OFDM-QPSK - Full RB )

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of  element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 86 of 129



Plot 7-126. Lower ACP Plot (NR Band n41 - 40MHz CP-OFDM-QPSK - Full RB)

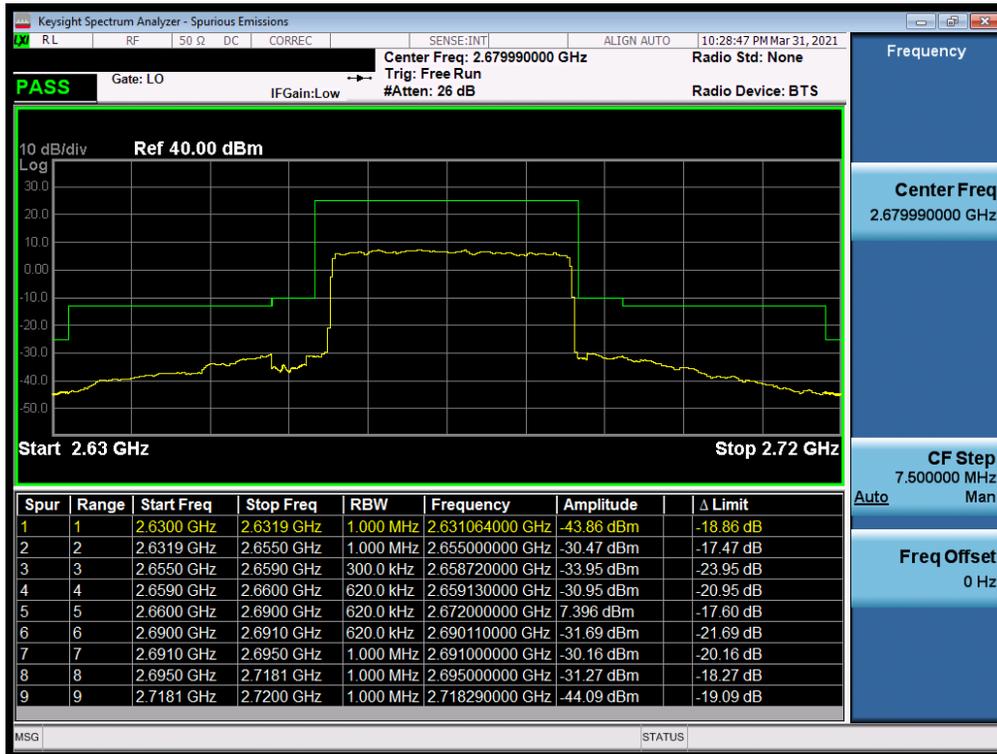


Plot 7-127. Upper ACP Plot (NR Band n41 - 40MHz CP-OFDM-QPSK - Full RB)

FCC ID: A3LSMF926U	PCTEST Proud to be part of  element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 87 of 129

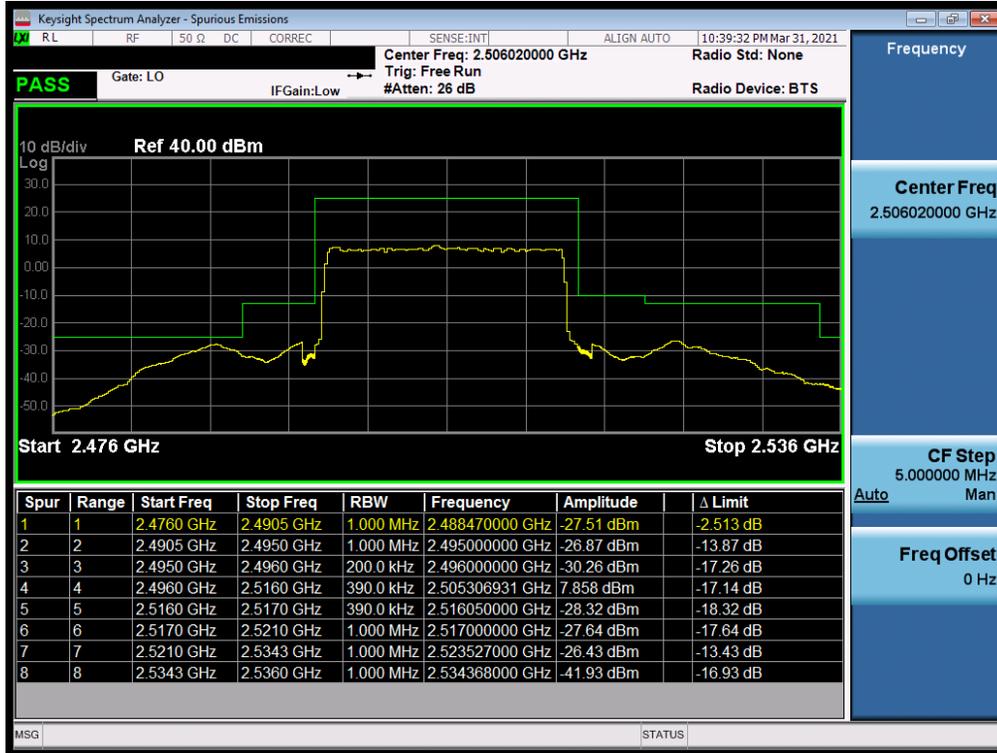


Plot 7-128. Lower ACP Plot (NR Band n41 - 30MHz CP-OFDM-QPSK - Full RB )

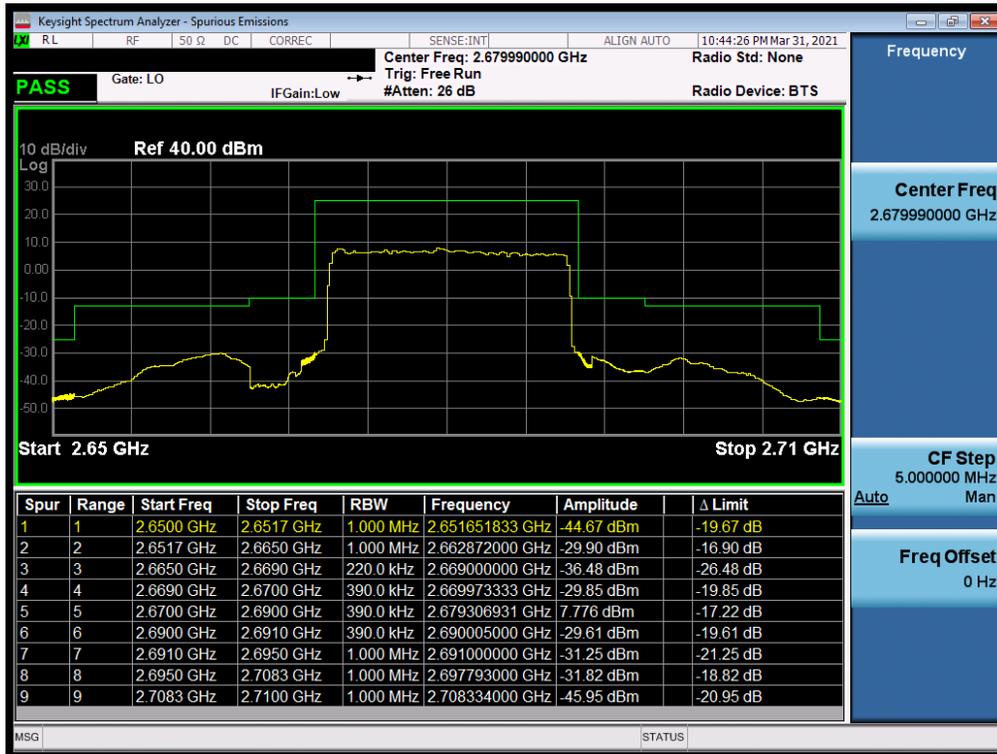


Plot 7-129. Upper ACP Plot (NR Band n41 - 30MHz CP-OFDM-QPSK - Full RB )

FCC ID: A3LSMF926U	PCTEST Proud to be part of  element	PART 27 MEASUREMENT REPORT	SAMSUNG	Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 88 of 129



Plot 7-130. Lower ACP Plot (NR Band n41 - 20MHz CP-OFDM-QPSK - Full RB )



Plot 7-131. Upper ACP Plot (NR Band n41 - 20MHz 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: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 89 of 129

## 7.6 Uplink Carrier Aggregation

### §27.53(m)

#### Test Overview

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

***For Band 41/38 the minimum permissible attenuation level of any spurious emission is  $55 + 10 \log_{10}(P_{[Watts]})$ .***

#### Test Procedure Used

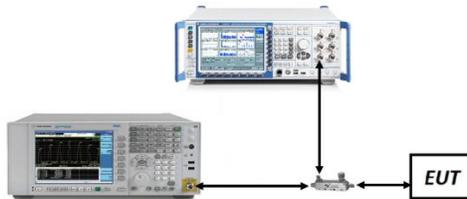
KDB 971168 D01 v03r01 – Section 6.0

#### Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to at least 10 \* the fundamental frequency (separated into at least two plots per channel)
2. Detector = RMS
3. Trace mode = trace average for continuous emissions, max hold for pulse emissions
4. Sweep time = auto couple
5. The trace was allowed to stabilize
6. Please see test notes below for RBW and VBW settings

#### Test Setup

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



**Figure 7-5. Test Instrument & Measurement Setup**

#### Test Notes

1. Conducted power and spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device. The worst case (highest) powers were found while operating with QPSK modulation with both carriers set to transmit using 1RB.
2. Compliance with the applicable limits is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater for frequencies less than 1 GHz and 1 MHz or greater for frequencies greater than 1 GHz. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2104020031-05.A3L	<b>Test Dates:</b> 03/26 - 06/10/2021	<b>EUT Type:</b> Portable Handset		Page 90 of 129

## Uplink CA Configuration 41C

Power State	Band	Bandwidth (PCC + SCC)	PCC				SCC				ULCA Tx. Power [dBm]		
			Modulation	UL Channel	UL Frequency	UL # RB	UL RB Offset	Modulation	UL Channel	UL Frequency		UL # RB	UL RB Offset
Max	LTE B41(PC2)	20MHz + 20MHz	QPSK	39750	2506.0	1	99	QPSK	39948	2525.8	1	0	24.37
				40620	2598.0	1	99		40818	2612.8	1	0	24.41
				41490	2690.0	1	0		41292	2680.2	1	99	23.82
			QPSK	40620	2598	100	0	QPSK	40818	2612.8	100	0	22.5
			16-QAM	40620	2598	100	0	16-QAM	40818	2612.8	100	0	21.13
			64-QAM	40620	2598	100	0	64-QAM	40818	2612.8	100	0	20.96
			256-QAM	40620	2598	100	0	256-QAM	40818	2612.8	100	0	18.87

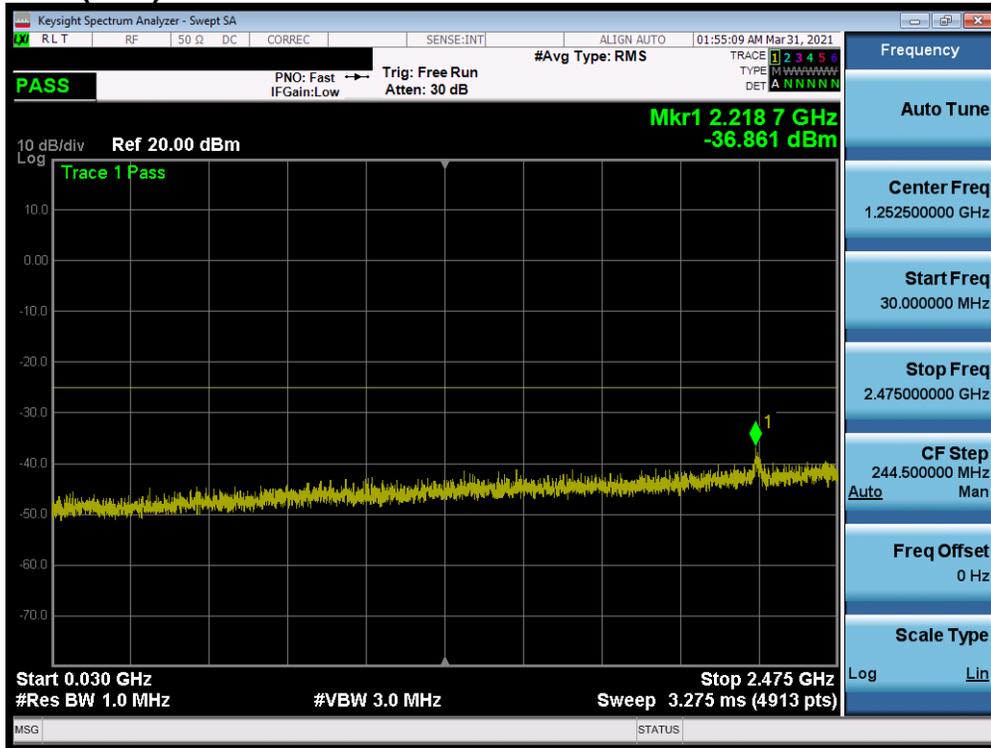
Table 7-8. Conducted Power Data (ULCA LTE B41(PC2))

Test Case	Channel BW [MHz]	PCC Channel Number	PCC Channel Frequency [MHz]	SCC Channel Number	SCC Channel Frequency [MHz]	Modulation	PCC RB Size	PCC RB Offset	SCC RB Size	SCC RB Offset	MPR [dB]	Maximum Target Output Power (dBm)	A-MPR [dB]	A-MPR Measured Power [dBm]
1	20 + 20	39750	2506	39948	2525.8	QPSK	100	0	100	0	0	26.00	≤ 5	21.44
						16-QAM	100	0	100	0	≤ 1	25.00		20.89
						64-QAM	100	0	100	0	≤ 2	24.00		20.88
2	20 + 20	39750	2506	39948	2525.8	QPSK	1	99	1	0	0	26.00	≤ 0	26.54
						16-QAM	1	99	1	0	≤ 1	25.00		26.46
						64-QAM	1	99	1	0	≤ 2	24.00		25.44
3	20 + 20	39790	2510	39988	2529.8	QPSK	100	0	100	0	0	26.00	≤ 5	20.98
						16-QAM	100	0	100	0	≤ 1	25.00		20.87
						64-QAM	100	0	100	0	≤ 2	24.00		20.69
4	20 + 20	39790	2510	39988	2529.8	QPSK	1	99	1	0	0	26.00	≤ 0	26.54
						16-QAM	1	99	1	0	≤ 1	25.00		26.69
						64-QAM	1	99	1	0	≤ 2	24.00		23.85
5	20 + 20	39989	2529.9	40187	2549.7	QPSK	100	0	100	0	0	26.00	≤ 0	23.04
						16-QAM	100	0	100	0	≤ 1	25.00		22.06
						64-QAM	100	0	100	0	≤ 2	24.00		20.11
6	20 + 20	39989	2529.9	40187	2549.7	QPSK	1	99	1	0	0	26.00	≤ 0	26.57
						16-QAM	1	99	1	0	≤ 1	25.00		26.61
						64-QAM	1	99	1	0	≤ 2	24.00		23.79

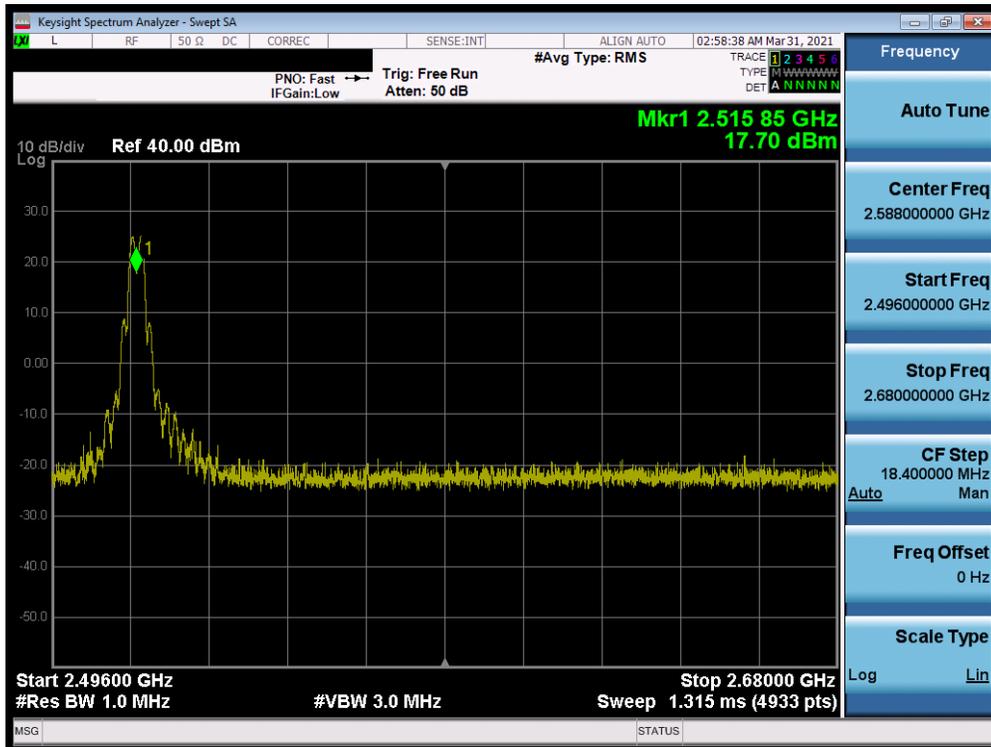
Table 7-9. A-MPR Conducted Power Data (ULCA LTE B41(PC2))

FCC ID: A3LSMF926U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset	Page 91 of 129

### ULCA - LTE B41(PC2)



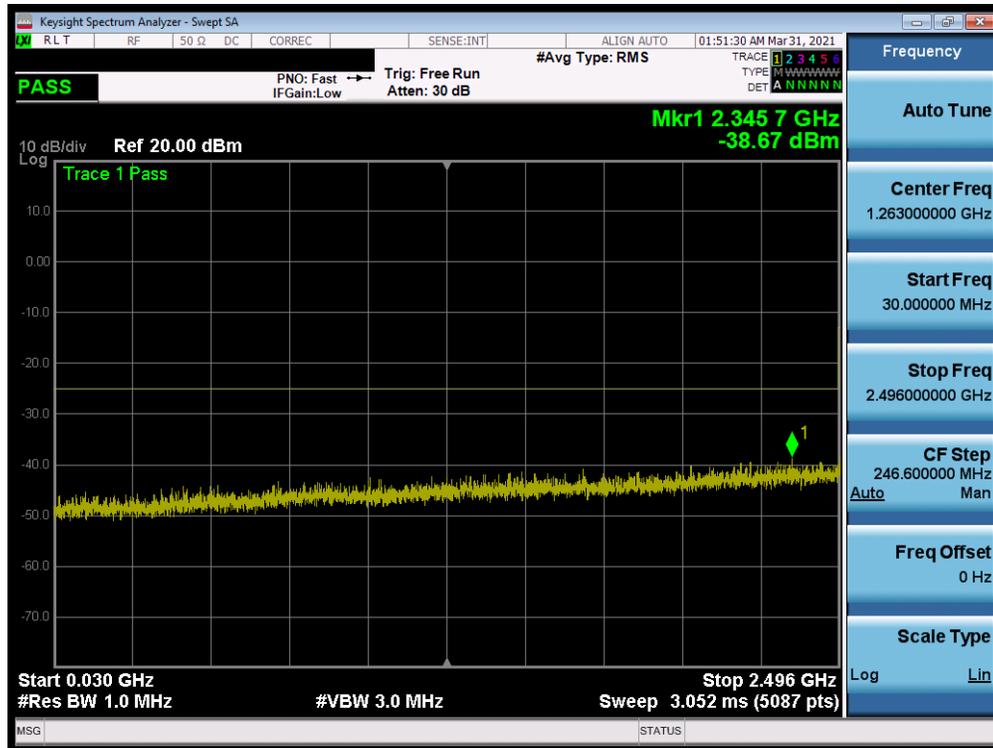
Plot 7-132. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)



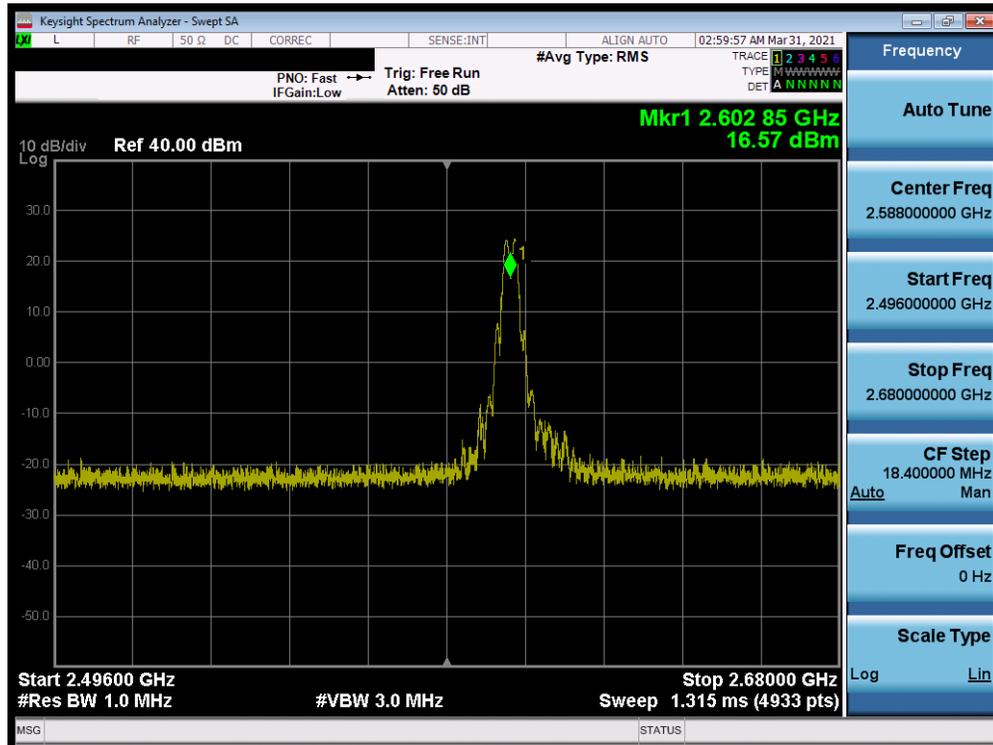
Plot 7-133. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Low Channel)

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 92 of 129



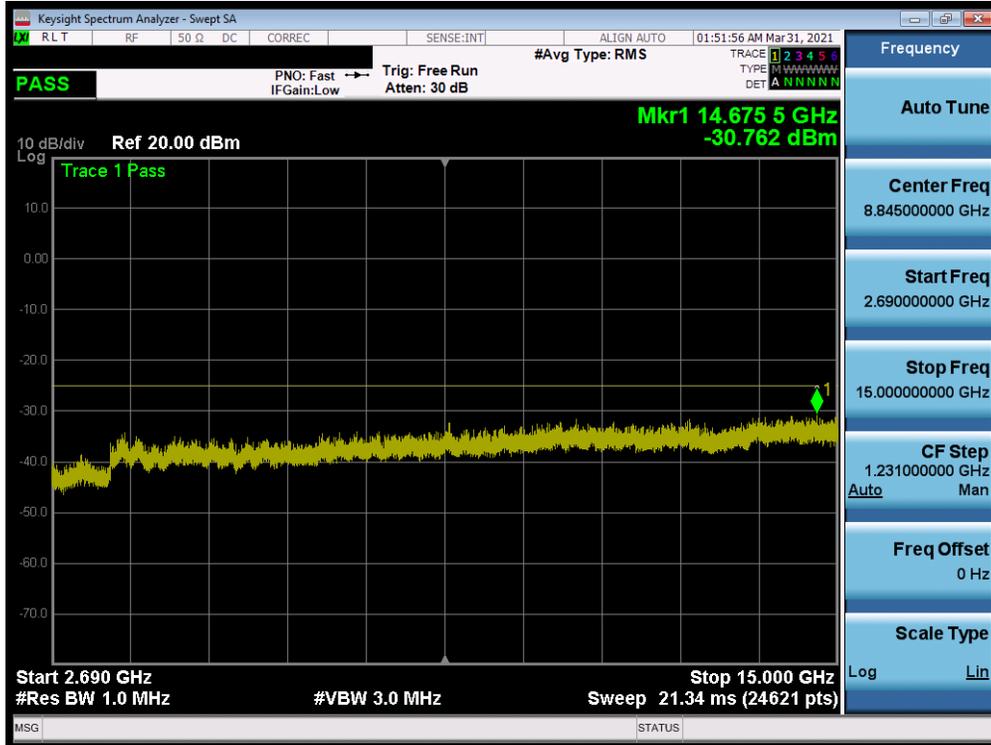


Plot 7-136. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

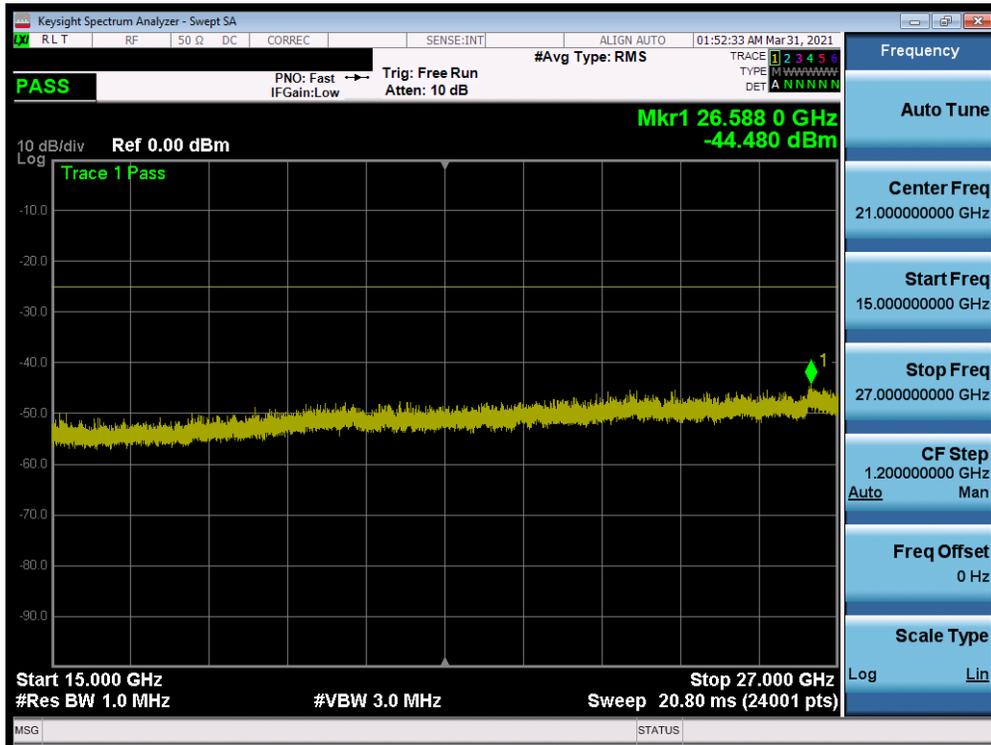


Plot 7-137. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of  element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 94 of 129

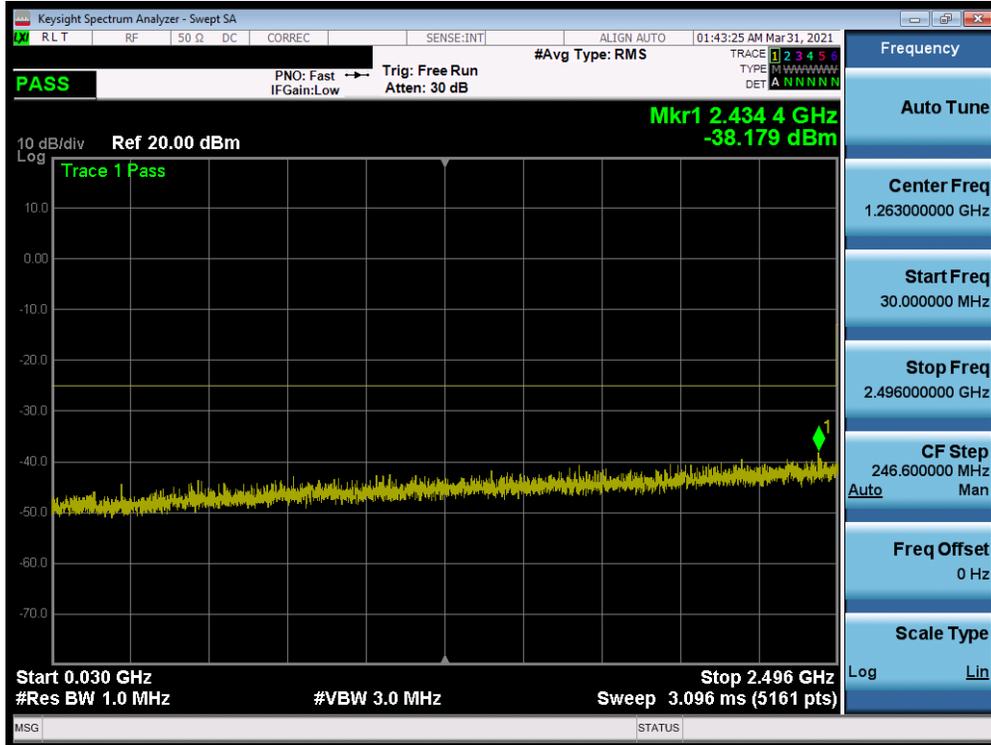


Plot 7-138. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

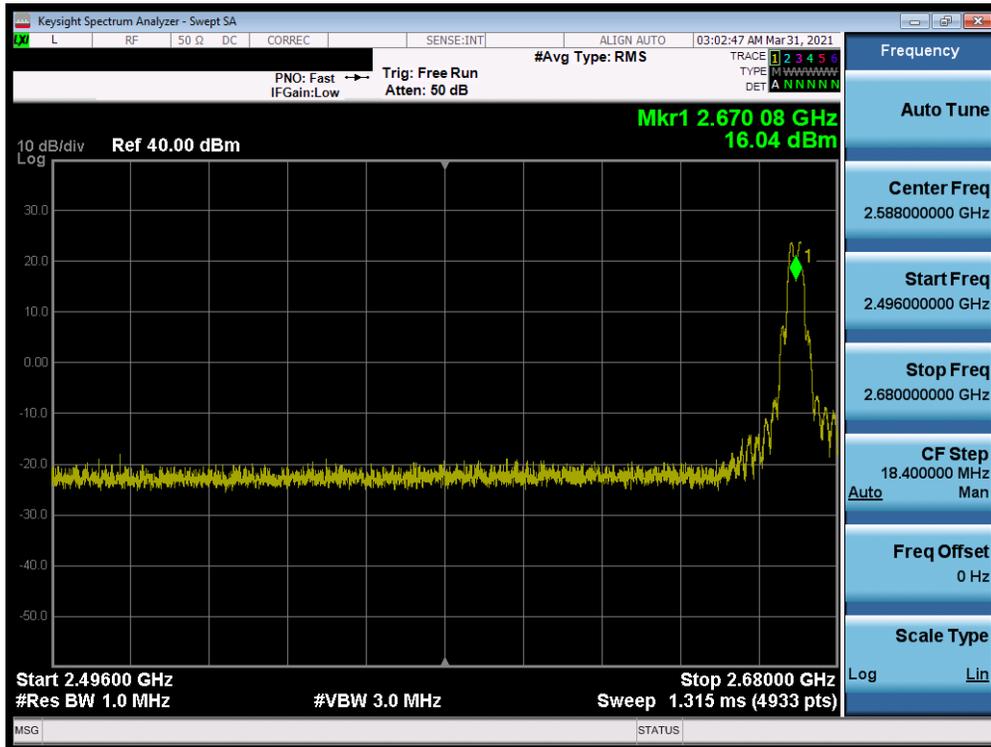


Plot 7-139. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - Mid Channel)

FCC ID: A3LSMF926U	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 95 of 129



Plot 7-140. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

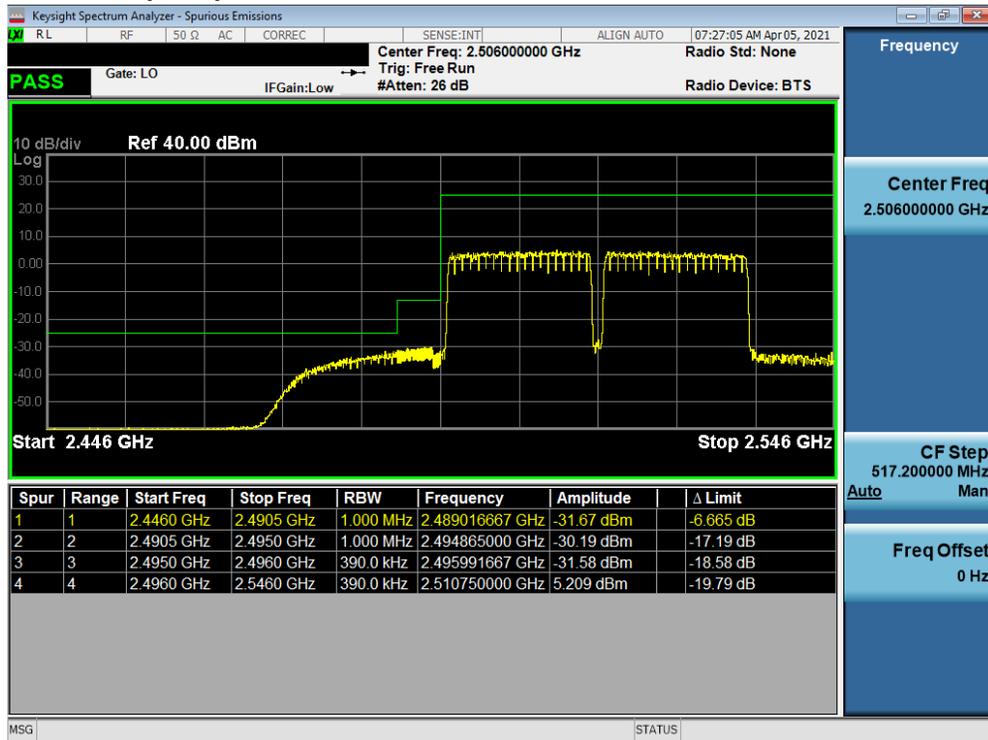


Plot 7-141. Conducted Spurious Plot (ULCA LTE B41(PC2) - 20MHz QPSK - RB Size 1, RB Offset 0 - High Channel)

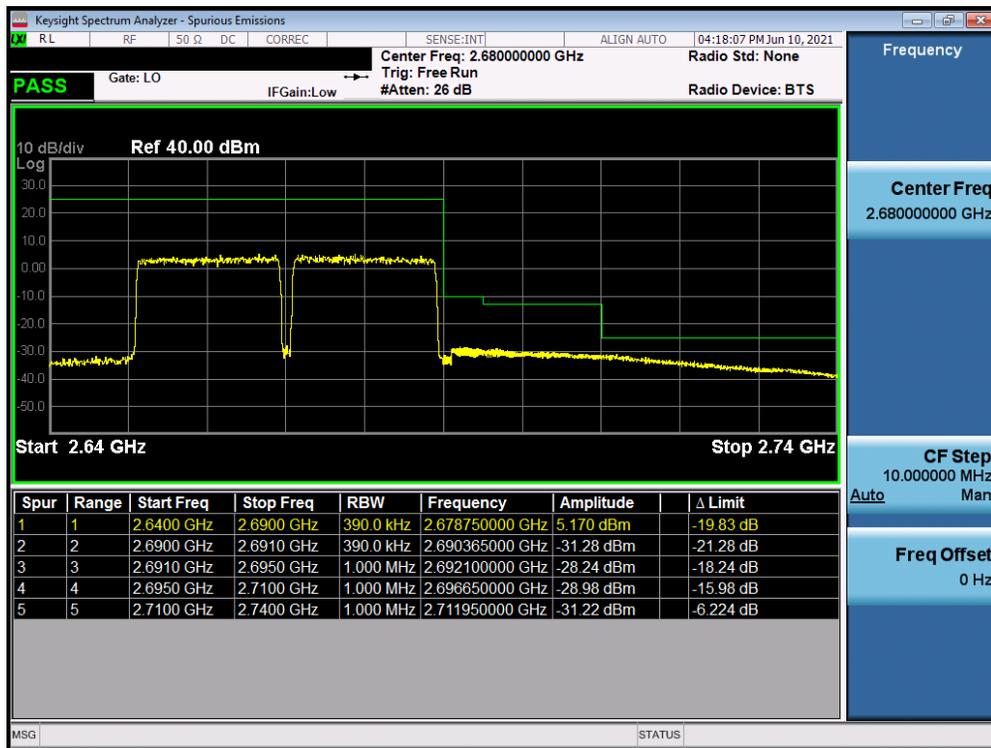
FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of  element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 96 of 129



# ULCA - LTE Band 41(PC2)



Plot 7-144. Lower ACP Plot (ULCA LTE B41(PC2) - 20MHz QPSK – Full RB)



Plot 7-145. Upper ACP Plot (ULCA LTE B41(PC2) - 20MHz QPSK – Full RB)

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of element	PART 27 MEASUREMENT REPORT	<b>SAMSUNG</b>	Approved by: Technical Manager
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## 7.7 Radiated Power (EIRP)

### 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 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

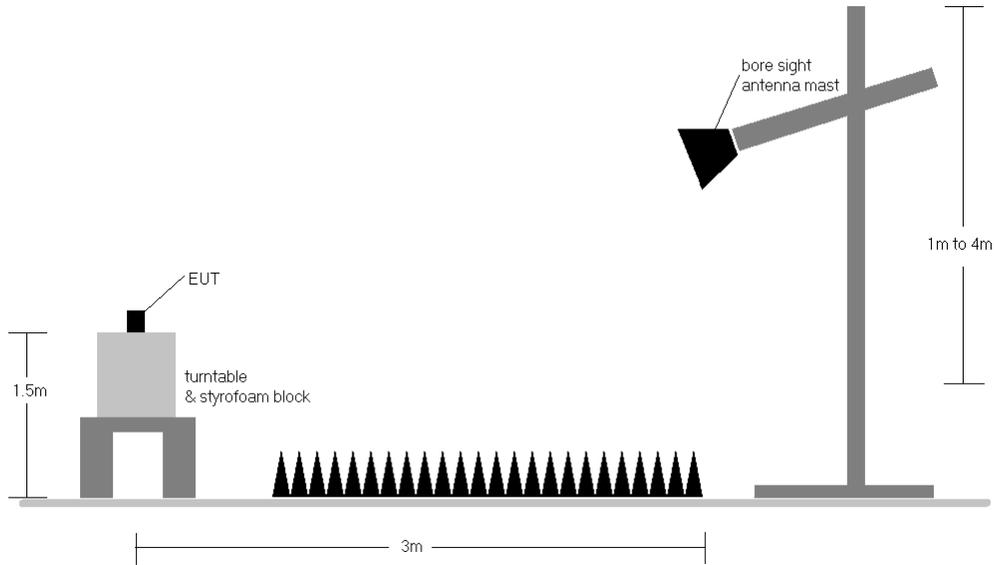
### Test Settings

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 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”. 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

FCC ID: A3LSMF926U	 <b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
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**Test Setup**

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



**Figure 7-6. Radiated Test Setup >1GHz**

**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.

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
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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]
10 MHz	QPSK	2310.0	H	147.0	147.0	9.07	1 / 25	13.90	<b>22.97</b>	0.198	23.98	-1.01
	16-QAM	2310.0	H	147.0	147.0	9.07	1 / 25	13.44	22.51	0.178	23.98	-1.47
5 MHz	QPSK	2307.5	H	147.0	147.0	9.07	1 / 24	13.86	22.93	0.196	23.98	-1.05
		2310.0	H	147.0	147.0	9.07	1 / 12	13.89	<b>22.96</b>	0.198	23.98	-1.02
		2312.5	H	147.0	147.0	9.07	1 / 0	13.85	22.92	0.196	23.98	-1.06
	16-QAM	2310.0	H	147.0	147.0	9.07	1 / 0	13.42	22.49	0.177	23.98	-1.49
10 MHz	Opposite Pol.	2310.0	V	145.0	198.0	9.07	1 / 12	13.85	22.92	0.196	23.98	-1.06
	Closed	2310.0	V	125.0	270.0	9.07	1 / 12	12.63	21.70	0.148	23.98	-2.28
	WCP	2310.0	V	143.0	45.0	9.07	1 / 12	10.53	19.60	0.091	23.98	-4.38

Table 7-10. EIRP Data (LTE Band 30)

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	2510.0	H	121.0	156.0	9.45	1 / 99	14.16	23.61	0.230	33.01	-9.40
		2535.0	H	183.0	157.0	9.42	1 / 0	14.36	<b>23.78</b>	0.239	33.01	-9.23
		2560.0	H	110.0	196.0	9.45	1 / 99	13.75	23.20	0.209	33.01	-9.81
	16-QAM	2535.0	H	183.0	157.0	9.42	1 / 0	13.48	22.90	0.195	33.01	-10.11
15 MHz	QPSK	2507.5	H	121.0	156.0	9.45	1 / 37	14.36	<b>23.81</b>	0.240	33.01	-9.20
		2535.0	H	183.0	157.0	9.42	1 / 0	14.31	23.73	0.236	33.01	-9.28
		2562.5	H	110.0	196.0	9.46	1 / 0	13.80	23.26	0.212	33.01	-9.75
	16-QAM	2535.0	H	183.0	157.0	9.42	1 / 37	13.20	22.63	0.183	33.01	-10.38
10 MHz	QPSK	2505.0	H	121.0	156.0	9.45	1 / 0	14.31	23.76	0.238	33.01	-9.25
		2535.0	H	183.0	157.0	9.42	1 / 49	14.44	<b>23.86</b>	0.243	33.01	-9.15
		2565.0	H	110.0	196.0	9.47	1 / 25	13.97	23.44	0.221	33.01	-9.57
	16-QAM	2535.0	H	183.0	157.0	9.42	1 / 25	13.81	23.24	0.211	33.01	-9.77
5 MHz	QPSK	2502.5	H	121.0	156.0	9.46	1 / 0	14.34	<b>23.80</b>	0.240	33.01	-9.21
		2535.0	H	183.0	157.0	9.42	1 / 12	14.29	23.71	0.235	33.01	-9.30
		2567.5	H	110.0	196.0	9.48	1 / 0	13.89	23.37	0.217	33.01	-9.64
	16-QAM	2502.5	H	121.0	156.0	9.46	1 / 0	13.99	23.45	0.221	33.01	-9.56
5 MHz	Opposite Pol.	2535.0	V	231.0	281.0	9.41	1 / 0	13.83	23.24	0.211	33.01	-9.77
	Closed	2535.0	H	104.0	204.0	9.42	1 / 0	12.20	21.62	0.145	33.01	-11.39
	WCP	2535.0	V	120.0	330.0	9.41	1 / 0	13.03	22.44	0.176	33.01	-10.57

Table 7-11. EIRP Data (LTE Band 7)

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	2506.0	H	149.0	205.0	9.45	1 / 0	17.16	<b>26.61</b>	0.458	33.01	-6.40
		2593.0	H	141.0	150.0	9.58	1 / 50	16.44	26.02	0.400	33.01	-6.99
		2680.0	H	121.0	183.0	9.86	1 / 0	16.09	25.95	0.394	33.01	-7.06
	16-QAM	2506.0	H	149.0	205.0	9.45	1 / 0	16.54	25.99	0.397	33.01	-7.02
15 MHz	QPSK	2503.5	H	149.0	205.0	9.45	1 / 74	17.07	<b>26.52</b>	0.449	33.01	-6.49
		2593.0	H	141.0	150.0	9.58	1 / 74	16.71	26.29	0.426	33.01	-6.72
		2682.5	H	121.0	183.0	9.86	1 / 74	16.52	26.37	0.434	33.01	-6.64
	16-QAM	2593.0	H	141.0	150.0	9.58	1 / 74	16.69	26.27	0.424	33.01	-6.74
10 MHz	QPSK	2501.0	H	149.0	205.0	9.46	1 / 25	17.12	<b>26.57</b>	0.454	33.01	-6.44
		2593.0	H	141.0	150.0	9.58	1 / 25	16.43	26.01	0.399	33.01	-7.00
		2685.0	H	121.0	183.0	9.85	1 / 49	16.35	26.20	0.417	33.01	-6.81
	16-QAM	2593.0	H	141.0	150.0	9.58	1 / 25	16.91	26.49	0.446	33.01	-6.52
5 MHz	QPSK	2498.5	H	149.0	205.0	9.46	1 / 12	16.07	25.53	0.358	33.01	-7.48
		2593.0	H	141.0	150.0	9.58	1 / 0	16.28	25.86	0.385	33.01	-7.15
		2687.5	H	121.0	183.0	9.85	1 / 24	16.65	26.49	0.446	33.01	-6.52
	16-QAM	2593.0	H	141.0	150.0	9.58	1 / 0	17.13	<b>26.71</b>	0.469	33.01	-6.30
20 MHz	Opposite Pol.	2506.0	V	218.0	276.0	9.45	1 / 0	16.53	25.98	0.396	33.01	-7.03
	CLOSED	2506.0	H	118.0	153.0	9.45	1 / 0	15.72	25.17	0.329	33.01	-7.84
	WCP	2506.0	V	308.0	248.0	9.45	1 / 0	16.73	26.18	0.415	33.01	-6.83

Table 7-12. EIRP Data (LTE Band 41(PC2))

FCC ID: A3LSMF926U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset	Page 101 of 129

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]
10 MHz	$\pi/2$ BPSK	2310.0	H	116	153	9.07	1 / 13	13.88	<b>22.95</b>	0.197	23.98	-1.03
	QPSK	2310.0	H	116	153	9.07	1 / 13	13.84	22.91	0.195	23.98	-1.07
	16-QAM	2310.0	H	116	153	9.07	1 / 13	13.29	22.36	0.172	23.98	-1.62
5 MHz	$\pi/2$ BPSK	2307.5	H	116	153	9.07	1 / 18	13.25	22.32	0.171	23.98	-1.66
		2310.0	H	116	153	9.07	1 / 12	13.92	<b>22.99</b>	0.199	23.98	-0.99
		2312.5	H	116	153	9.07	1 / 18	13.71	22.78	0.190	23.98	-1.20
	QPSK	2307.5	H	116	153	9.07	1 / 18	13.32	22.39	0.173	23.98	-1.59
		2310.0	H	116	153	9.07	1 / 12	13.83	22.90	0.195	23.98	-1.08
		2312.5	H	116	153	9.07	1 / 18	13.91	22.98	0.199	23.98	-1.00
16-QAM	2310.0	H	116	153	9.07	1 / 12	13.28	22.35	0.172	23.98	-1.63	
10 MHz	QPSK (CP-OFDM)	2310.0	H	144	141	9.07	1 / 12	12.64	21.71	0.148	23.98	-2.27
	Opposite Pol.	2310.0	V	377	156	9.07	1 / 12	11.61	20.68	0.117	23.98	-3.30
	Closed	2310.0	H	349	198	9.07	1 / 12	12.71	21.78	0.151	23.98	-2.20
	WCP	2310.0	H	116	69	9.07	1 / 12	12.74	21.81	0.152	23.98	-2.17

Table 7-13. EIRP Data (NR Band n30)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 102 of 129

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]
100 MHz	π/2 BPSK	2546.0	H	117.0	19.0	9.41	1 / 136	10.98	20.39	0.109	33.01	-12.62
		2593.0	H	118.0	45.0	9.58	1 / 68	14.44	<b>24.02</b>	0.252	33.01	-8.99
		2640.0	H	100.0	325.0	9.87	1 / 136	12.51	22.38	0.173	33.01	-10.63
	QPSK	2546.0	H	117.0	19.0	9.41	1 / 136	9.85	19.26	0.084	33.01	-13.75
		2593.0	H	118.0	45.0	9.58	1 / 68	14.40	23.98	0.250	33.01	-9.03
		2640.0	H	100.0	325.0	9.87	1 / 136	11.59	21.46	0.140	33.01	-11.55
16-QAM	2593.0	H	118.0	45.0	9.58	1 / 68	12.55	22.13	0.163	33.01	-10.88	
90 MHz	π/2 BPSK	2541.0	H	117.0	19.0	9.42	1 / 122	11.61	21.03	0.127	33.01	-11.98
		2593.0	H	118.0	45.0	9.58	1 / 61	14.61	<b>24.19</b>	0.262	33.01	-8.82
		2645.0	H	100.0	325.0	9.90	1 / 183	13.16	23.06	0.202	33.01	-9.95
	QPSK	2541.0	H	117.0	19.0	9.42	1 / 122	10.41	19.82	0.096	33.01	-13.19
		2593.0	H	118.0	45.0	9.58	1 / 61	13.80	23.38	0.218	33.01	-9.63
		2645.0	H	100.0	325.0	9.90	1 / 183	12.02	21.92	0.156	33.01	-11.09
16-QAM	2593.0	H	118.0	45.0	9.58	1 / 61	12.23	21.81	0.152	33.01	-11.20	
80 MHz	π/2 BPSK	2536.0	H	117.0	19.0	9.42	1 / 162	11.35	20.78	0.120	33.01	-12.23
		2593.0	H	118.0	45.0	9.58	1 / 54	14.77	<b>24.35</b>	0.272	33.01	-8.66
		2650.0	H	100.0	325.0	9.93	1 / 108	13.11	23.05	0.202	33.01	-9.96
	QPSK	2536.0	H	117.0	19.0	9.42	1 / 162	10.21	19.64	0.092	33.01	-13.38
		2593.0	H	118.0	45.0	9.58	1 / 54	14.15	23.73	0.236	33.01	-9.28
		2650.0	H	100.0	325.0	9.93	1 / 108	12.00	21.93	0.156	33.01	-11.08
16-QAM	2593.0	H	118.0	45.0	9.58	1 / 54	12.58	22.16	0.164	33.01	-10.85	
60 MHz	π/2 BPSK	2526.0	H	117.0	19.0	9.43	1 / 121	11.59	21.03	0.127	33.01	-11.98
		2593.0	H	118.0	45.0	9.58	1 / 40	14.67	<b>24.25</b>	0.266	33.01	-8.76
		2660.0	H	100.0	325.0	9.91	1 / 81	13.36	23.27	0.212	33.01	-9.74
	QPSK	2526.0	H	117.0	19.0	9.43	1 / 121	10.44	19.88	0.097	33.01	-13.13
		2593.0	H	118.0	45.0	9.58	1 / 40	13.66	23.24	0.211	33.01	-9.77
		2660.0	H	100.0	325.0	9.91	1 / 81	12.46	22.37	0.173	33.01	-10.64
16-QAM	2593.0	H	118.0	45.0	9.58	1 / 40	12.10	21.68	0.147	33.01	-11.33	
50 MHz	π/2 BPSK	2521.0	H	117.0	19.0	9.44	1 / 99	11.82	21.26	0.134	33.01	-11.75
		2593.0	H	118.0	45.0	9.58	1 / 33	14.21	<b>23.79</b>	0.240	33.01	-9.22
		2665.0	H	100.0	325.0	9.90	1 / 99	13.53	23.43	0.220	33.01	-9.58
	QPSK	2521.0	H	117.0	19.0	9.44	1 / 99	10.70	20.14	0.103	33.01	-12.87
		2593.0	H	118.0	45.0	9.58	1 / 33	13.95	23.53	0.225	33.01	-9.48
		2665.0	H	100.0	325.0	9.90	1 / 99	12.02	21.92	0.155	33.01	-11.09
16-QAM	2593.0	H	118.0	45.0	9.58	1 / 33	12.28	21.86	0.154	33.01	-11.15	
40 MHz	π/2 BPSK	2516.0	H	117.0	19.0	9.44	1 / 79	11.78	21.22	0.132	33.01	-11.79
		2593.0	H	118.0	45.0	9.58	1 / 26	14.45	<b>24.04</b>	0.253	33.01	-8.97
		2670.0	H	100.0	325.0	9.89	1 / 26	13.48	23.37	0.217	33.01	-9.64
	QPSK	2516.0	H	117.0	19.0	9.44	1 / 79	10.45	19.90	0.098	33.01	-13.12
		2593.0	H	118.0	45.0	9.58	1 / 26	13.69	23.27	0.213	33.01	-9.74
		2670.0	H	100.0	325.0	9.89	1 / 26	12.16	22.05	0.160	33.01	-10.96
16-QAM	2593.0	H	118.0	45.0	9.58	1 / 26	12.37	21.95	0.157	33.01	-11.06	
30 MHz	π/2 BPSK	2511.0	H	117.0	19.0	9.45	1 / 58	11.85	21.30	0.135	33.01	-11.71
		2593.0	H	118.0	45.0	9.58	1 / 19	13.64	23.22	0.210	33.01	-9.79
		2675.0	H	100.0	325.0	9.88	1 / 19	13.61	23.48	0.223	33.01	-9.53
	QPSK	2511.0	H	117.0	19.0	9.45	1 / 58	9.89	19.34	0.086	33.01	-13.67
		2593.0	H	118.0	45.0	9.58	1 / 19	13.26	22.84	0.192	33.01	-10.17
		2675.0	H	100.0	325.0	9.88	1 / 58	11.07	20.94	0.124	33.01	-12.07
16-QAM	2593.0	H	118.0	45.0	9.58	1 / 19	11.30	20.88	0.122	33.01	-12.13	
20 MHz	π/2 BPSK	2506.0	H	117.0	19.0	9.45	1 / 37	11.04	20.49	0.112	33.01	-12.52
		2593.0	H	118.0	45.0	9.58	1 / 13	14.23	<b>23.81</b>	0.241	33.01	-9.20
		2680.0	H	100.0	325.0	9.86	1 / 13	13.37	23.23	0.211	33.01	-9.78
	QPSK	2506.0	H	117.0	19.0	9.45	1 / 37	8.90	18.35	0.068	33.01	-14.66
		2593.0	H	118.0	45.0	9.58	1 / 13	12.93	22.51	0.178	33.01	-10.50
		2680.0	H	100.0	325.0	9.86	1 / 13	11.43	21.30	0.135	33.01	-11.71
16-QAM	2593.0	H	118.0	45.0	9.58	1 / 13	11.36	20.94	0.124	33.01	-12.07	
80 MHz	QPSK (CP-OFDM)	2593.0	H	246.0	32.0	9.58	1 / 54	10.96	20.54	0.113	33.01	-12.47
	Opposite Polarity	2593.0	V	156.0	59.0	9.58	1 / 54	13.45	23.03	0.201	33.01	-9.98
	Closed	2593.0	V	114.0	49.0	9.58	1 / 54	13.25	22.83	0.192	33.01	-10.18
	QPSK (WCP)	2593.0	V	126.0	99.0	9.58	1 / 54	12.81	22.39	0.173	33.01	-10.62

Table 7-14. EIRP Data (NR Band n41)

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## 7.8 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

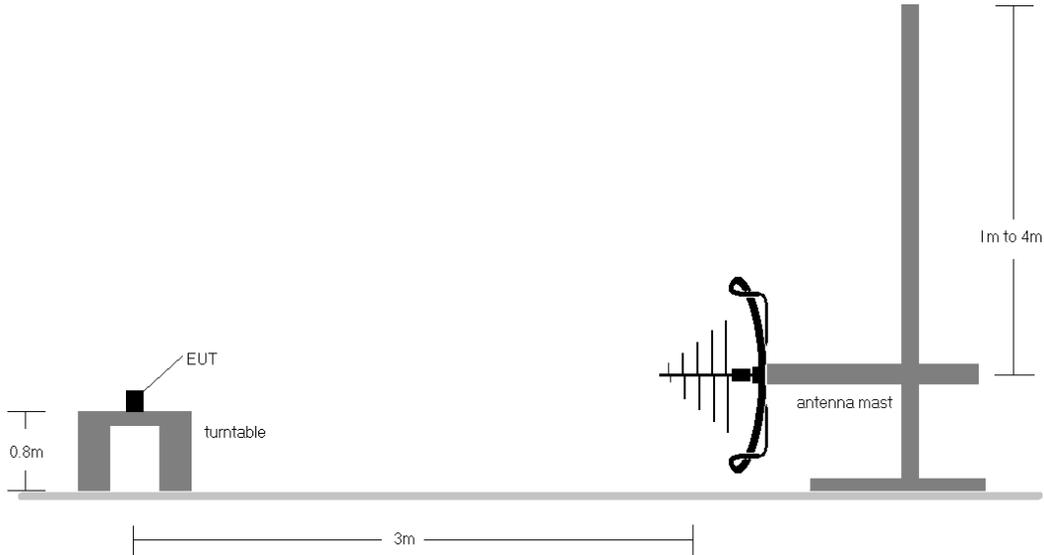
### Test Settings

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

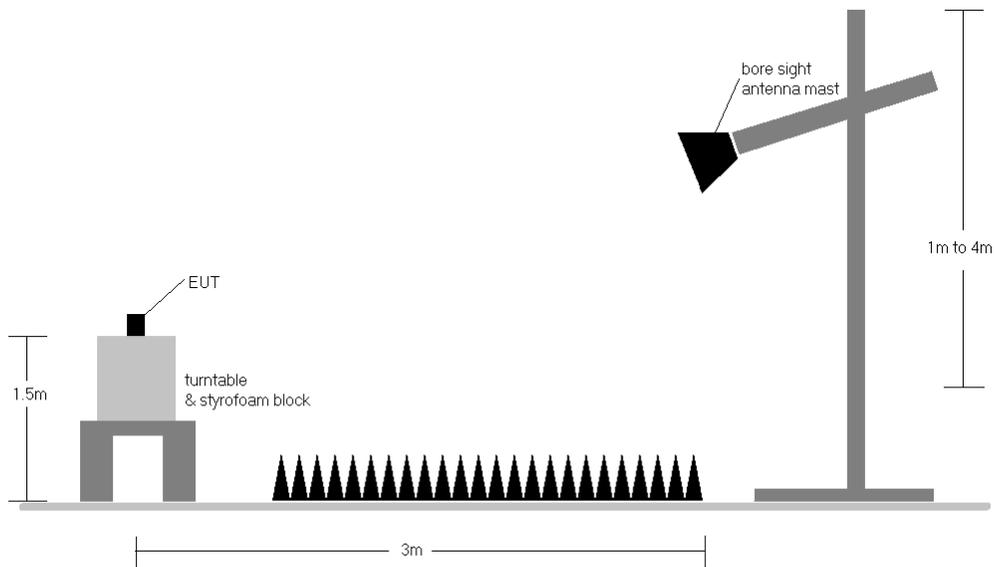
FCC ID: A3LSMF926U	 <b>PART 27 MEASUREMENT REPORT</b> 		Approved by: Technical Manager
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**Test Setup**

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



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



**Figure 7-8. Test Instrument & Measurement Setup >1 GHz**

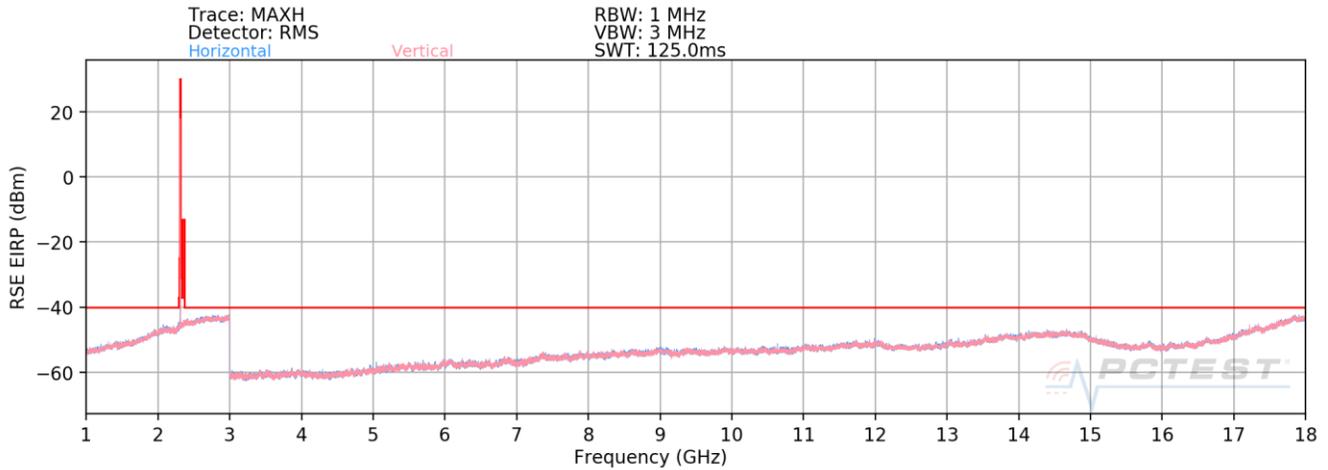
FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2104020031-05.A3L	<b>Test Dates:</b> 03/26 - 06/10/2021	<b>EUT Type:</b> Portable Handset		Page 105 of 129

## Test Notes

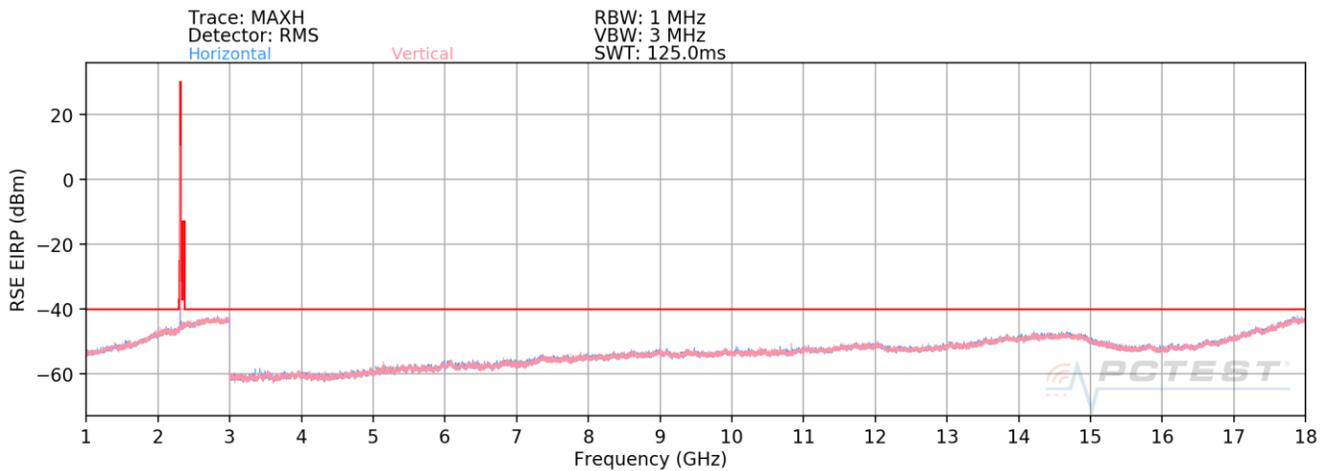
- 1) Field strengths are calculated using the Measurement quantity conversions in KDB 971168 Section 5.8.4.
  - a)  $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - b)  $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log D - 104.8$ ; 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) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 9) 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.
- 10) 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.

FCC ID: A3LSMF926U	 <b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
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## LTE Band 30



Plot 7-146. Radiated Spurious Plot (LTE Band 30) – OPEN



Plot 7-147. Radiated Spurious Plot (LTE Band 30) – CLOSED

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 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]
4620.0	V	111	319	-78.21	3.21	32.00	-63.26	-40.00	-23.26
6930.0	V	-	-	-80.79	7.38	33.59	-61.67	-40.00	-21.67
9240.0	V	-	-	-80.42	10.44	37.02	-58.24	-40.00	-18.24
11550.0	V	-	-	-82.16	13.84	38.68	-56.57	-40.00	-16.57
13860.0	V	-	-	-82.96	16.89	40.93	-54.32	-40.00	-14.32
18480.0	V	-	-	-66.42	3.81	44.40	-60.40	-40.00	-20.40
20790.0	V	-	-	-67.33	4.97	44.64	-60.16	-40.00	-20.16

Table 7-15. Radiated Spurious Data (LTE Band 30 – Mid Channel)

FCC ID: A3LSMF926U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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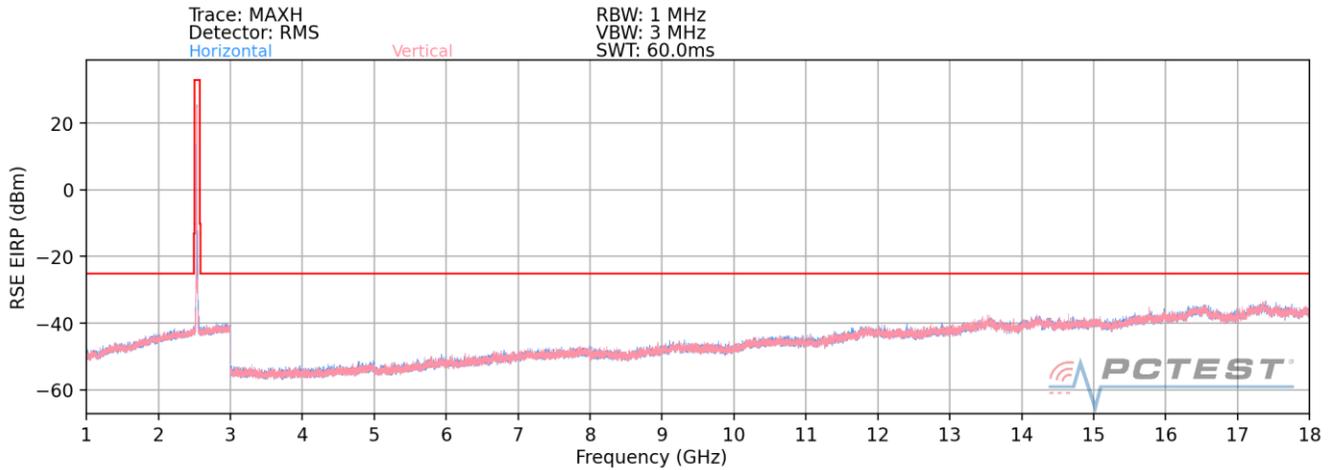
<b>Bandwidth (MHz):</b>	10
<b>Frequency (MHz):</b>	2310MHz
<b>RB / Offset:</b>	1/25

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]
4620.0	V	131	357	-77.11	3.21	33.10	-62.16	-40.00	-22.16
6930.0	V	363	52	-78.50	7.38	35.88	-59.38	-40.00	-19.38
9240.0	V	-	-	-80.45	10.44	36.99	-58.27	-40.00	-18.27
11550.0	V	125	33	-81.29	13.84	39.55	-55.70	-40.00	-15.70
13860.0	V	-	-	-82.90	16.89	40.99	-54.26	-40.00	-14.26
16170.0	V	-	-	-82.99	14.25	38.26	-56.99	-40.00	-16.99

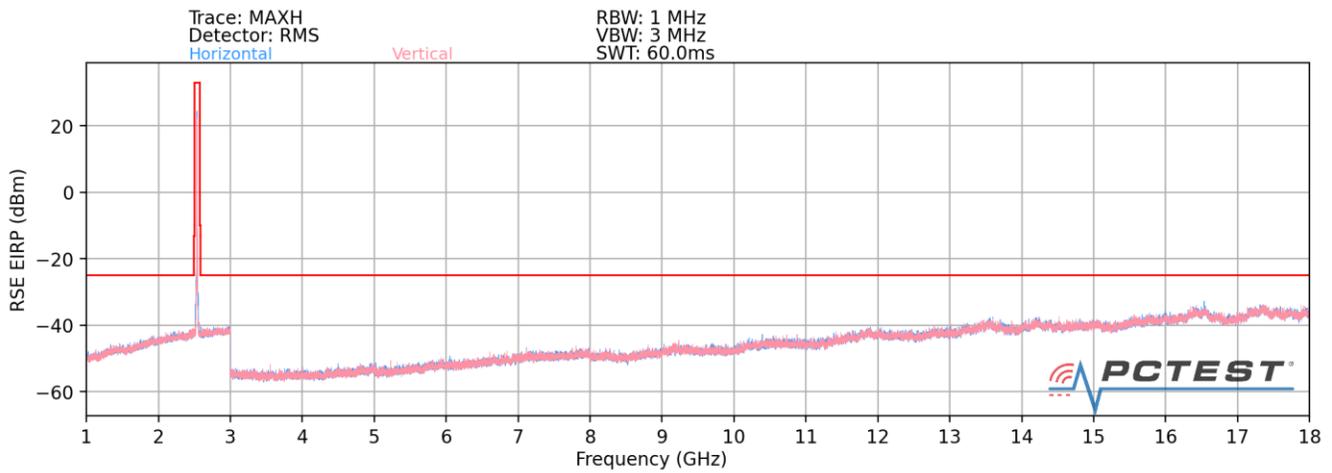
**Table 7-16. Radiated Spurious Data (LTE Band 30 – Mid Channel) with WCP**

<b>FCC ID:</b> A3LSMF926U	 <b>PCTEST</b> Proud to be part of 	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2104020031-05.A3L	<b>Test Dates:</b> 03/26 - 06/10/2021	<b>EUT Type:</b> Portable Handset		Page 108 of 129

## LTE Band 7



Plot 7-148. Radiated Spurious Plot (LTE Band 7) – OPEN



Plot 7-149. Radiated Spurious Plot (LTE Band 7) - CLOSE

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
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]
5020.0	H	201	339	-79.05	7.35	35.30	-59.96	-25.00	-34.96
7530.0	H	-	-	-82.35	12.92	37.57	-57.68	-25.00	-32.68
10040.0	H	135	23	-80.63	15.55	41.92	-53.33	-25.00	-28.33
12550.0	H	-	-	-84.78	18.85	41.07	-54.19	-25.00	-29.19
15060.0	H	-	-	-85.31	22.31	44.00	-51.25	-25.00	-26.25
17570.0	H	-	-	-85.18	25.98	47.80	-47.46	-25.00	-22.46

Table 7-17. Radiated Spurious Data (LTE Band 7 – Low Channel)

FCC ID: A3LSMF926U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset	Page 109 of 129

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
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]
5070.0	H	228	324	-79.35	7.32	34.97	-60.29	-25.00	-35.29
7605.0	H	-	-	-82.34	13.07	37.73	-57.52	-25.00	-32.52
10140.0	H	127	362	-81.73	15.54	40.81	-54.45	-25.00	-29.45
12675.0	H	-	-	-85.05	19.45	41.40	-53.86	-25.00	-28.86
15210.0	H	-	-	-85.57	22.11	43.54	-51.72	-25.00	-26.72
17745.0	H	-	-	-85.33	26.12	47.79	-47.47	-25.00	-22.47

Table 7-18. Radiated Spurious Data (LTE Band 7 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
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]
5120.00	H	-	-	-80.64	7.79	34.15	-61.11	-25.00	-36.11
7680.00	H	-	-	-82.71	12.46	36.75	-58.51	-25.00	-33.51
10240.00	H	207	31	-81.59	15.98	41.39	-53.87	-25.00	-28.87
12800.00	H	-	-	-85.04	19.52	41.48	-53.78	-25.00	-28.78
15360.00	H	-	-	-85.34	21.89	43.55	-51.71	-25.00	-26.71
17920.00	H	-	-	-85.33	26.24	47.91	-47.35	-25.00	-22.35

Table 7-19. Radiated Spurious Data (LTE Band 7 – High Channel)

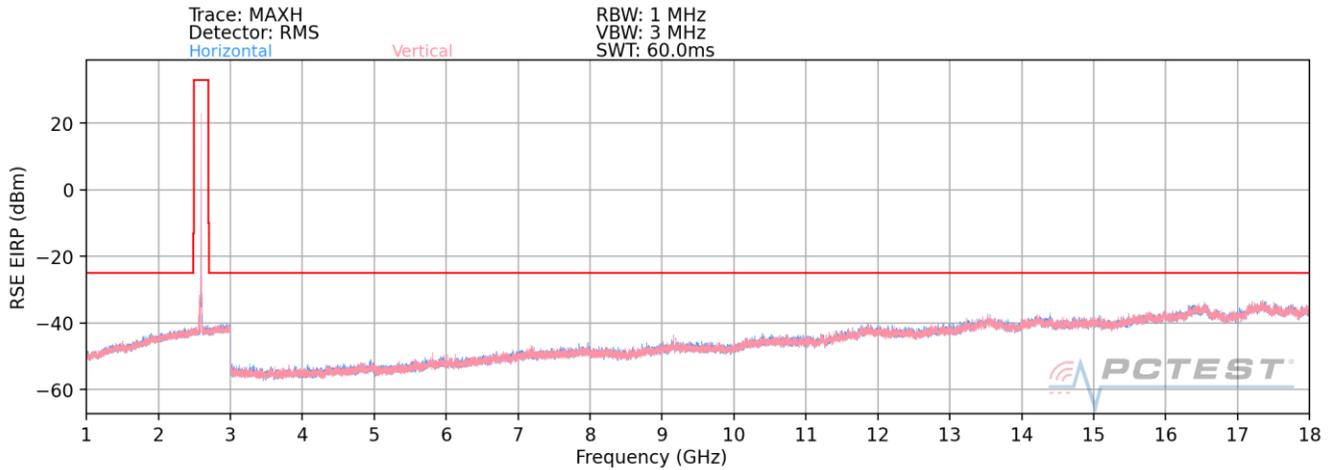
Case:	WCP
Bandwidth (MHz):	20MHz
Frequency (MHz):	2510.0
RB / Offset:	1/50

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]
5020.0	H	251	265	-80.29	7.35	34.06	-61.20	-25.00	-36.20
7530.0	H	-	-	-82.74	12.92	37.18	-58.07	-25.00	-33.07
10040.0	H	194	321	-83.29	15.55	39.26	-55.99	-25.00	-30.99
12550.0	H	-	-	-85.49	18.85	40.36	-54.90	-25.00	-29.90
15060.0	H	-	-	-85.42	22.31	43.89	-51.36	-25.00	-26.36
17570.0	H	-	-	-85.19	25.98	47.79	-47.47	-25.00	-22.47

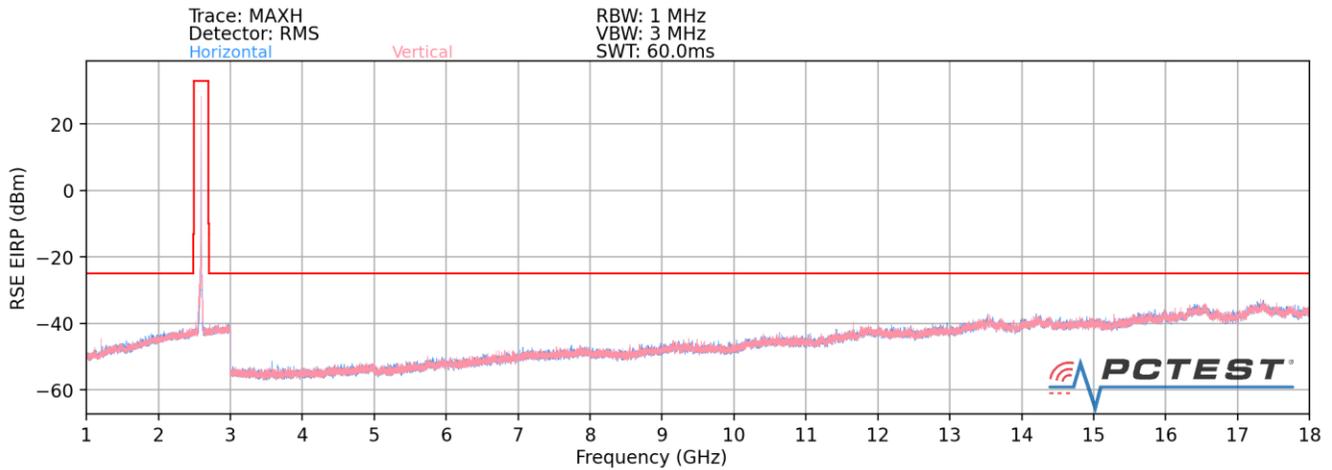
Table 7-20. Radiated Spurious Data (LTE Band 7 – Mid Channel) with WCP

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 110 of 129

## LTE Band 41(PC2)



Plot 7-150. Radiated Spurious Plot (LTE Band 41(PC2)) – OPEN



Plot 7-151. Radiated Spurious Plot (LTE Band 41(PC2)) - CLOSE

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
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]
5012.0	H	-	-	-73.15	10.13	43.98	-51.28	-25.00	-26.28
7518.0	H	-	-	-74.82	16.03	48.21	-47.05	-25.00	-22.05
10024.0	H	-	-	-76.45	19.52	50.07	-45.18	-25.00	-20.18
12530.0	H	148	59	-75.89	23.72	54.83	-40.43	-25.00	-15.43
15036.0	H	-	-	-77.65	28.01	57.36	-37.90	-25.00	-12.90

Table 7-21. Radiated Spurious Data (LTE Band 41(PC2) – Low Channel)

FCC ID: A3LSMF926U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset	Page 111 of 129

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
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]
5186.0	H	262	318	-72.46	10.42	44.96	-50.29	-25.00	-25.29
7779.0	H	-	-	-74.66	16.35	48.69	-46.56	-25.00	-21.56
10372.0	H	-	-	-76.10	20.17	51.07	-44.19	-25.00	-19.19
12965.0	H	161	72	-76.03	25.13	56.10	-39.15	-25.00	-14.15
15558.0	H	-	-	-76.82	29.09	59.27	-35.99	-25.00	-10.99

Table 7-22. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
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]
5360.0	H	202	324	-72.56	11.06	45.50	-49.76	-25.00	-24.76
8040.0	H	-	-	-75.48	16.68	48.20	-47.06	-25.00	-22.06
10720.0	H	-	-	-76.22	20.87	51.65	-43.61	-25.00	-18.61
13400.0	H	-	-	-77.08	25.62	55.54	-39.72	-25.00	-14.72

Table 7-23. Radiated Spurious Data (LTE Band 41(PC2) – High Channel)

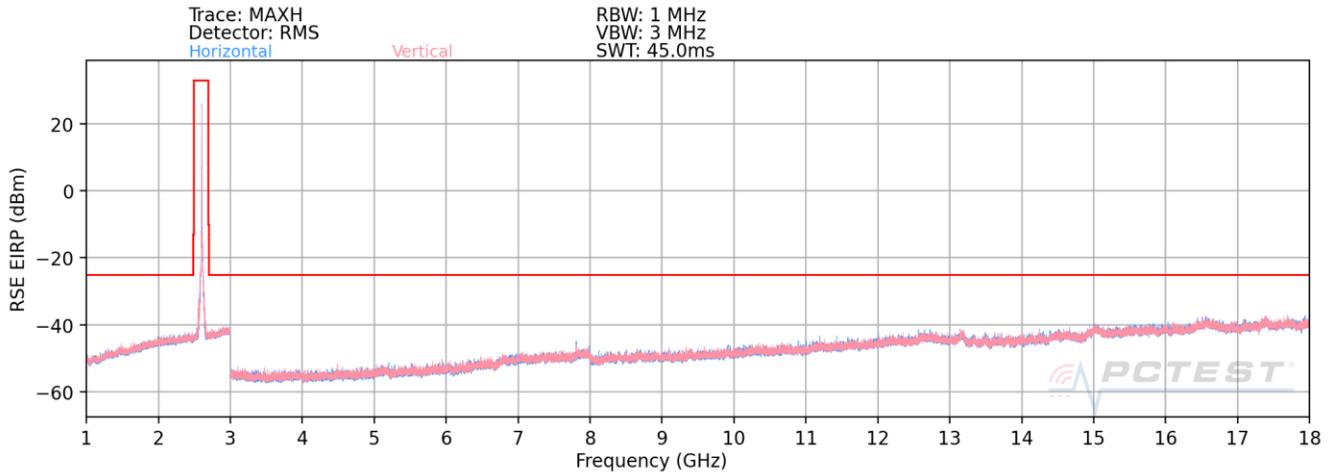
Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1/50

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]
5186.0	H	-	-	-73.33	10.42	44.09	-51.16	-25.00	-26.16
7779.0	H	-	-	-74.15	16.35	49.20	-46.05	-25.00	-21.05
10372.0	H	-	-	-75.08	20.17	52.09	-43.17	-25.00	-18.17
12965.0	H	-	-	-76.74	25.13	55.39	-39.86	-25.00	-14.86

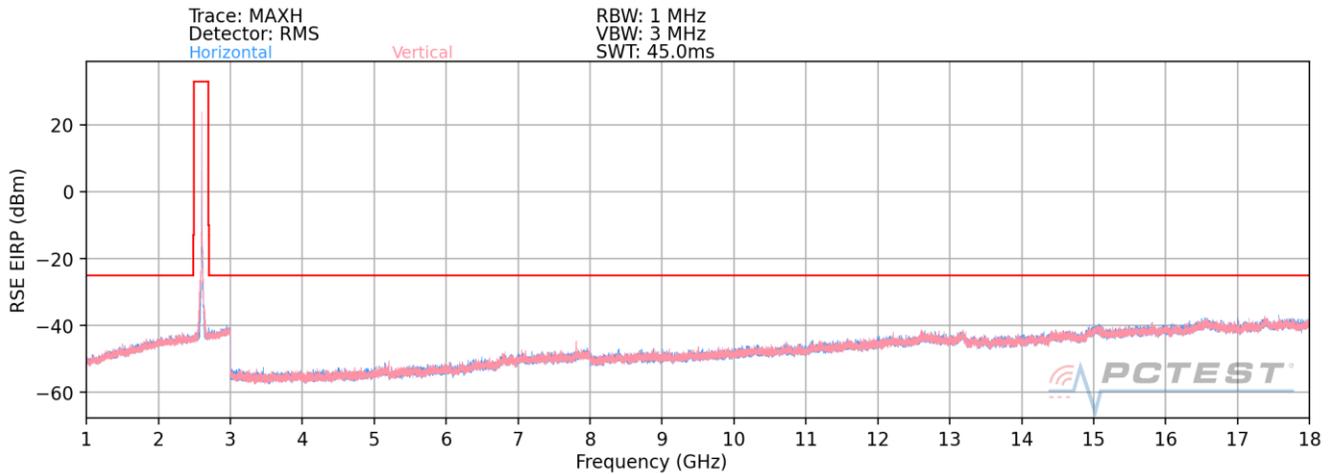
Table 7-24. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel) with WCP

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 112 of 129

# ULCA - LTE B41(PC2)



Plot 7-152. Radiated Spurious Plot (ULCA LTE B41(PC2) – Mid Channel) – Open



Plot 7-153. Radiated Spurious Plot (ULCA LTE B41(PC2) – Mid Channel) – Closed

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0

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]
5012.0	H	316	52	-78.20	7.36	36.16	-59.10	-25.00	-34.10
7518.0	H	-	-	-81.20	12.75	38.55	-56.71	-25.00	-31.71
10024.0	H	-	-	-81.75	15.19	40.44	-54.82	-25.00	-29.82
12530.0	H	-	-	-82.44	18.72	43.28	-51.98	-25.00	-26.98

Table 7-25. Radiated Spurious Data (ULCA LTE B41(PC2) – Low Channel)

FCC ID: A3LSMF926U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset	Page 113 of 129

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0

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]
5186.0	H	194	50	-72.27	7.32	42.05	-53.21	-25.00	-28.21
7779.0	H	294	61	-70.36	12.58	49.22	-46.04	-25.00	-21.04
10372.0	H	138	3	-79.47	15.75	43.28	-51.98	-25.00	-26.98
12965.0	H	-	-	-83.38	18.98	42.60	-52.66	-25.00	-27.66
15558.0	H	-	-	-83.62	22.69	46.07	-49.18	-25.00	-24.18

Table 7-26. Radiated Spurious Data (ULCA LTE B41(PC2) – Mid Channel)

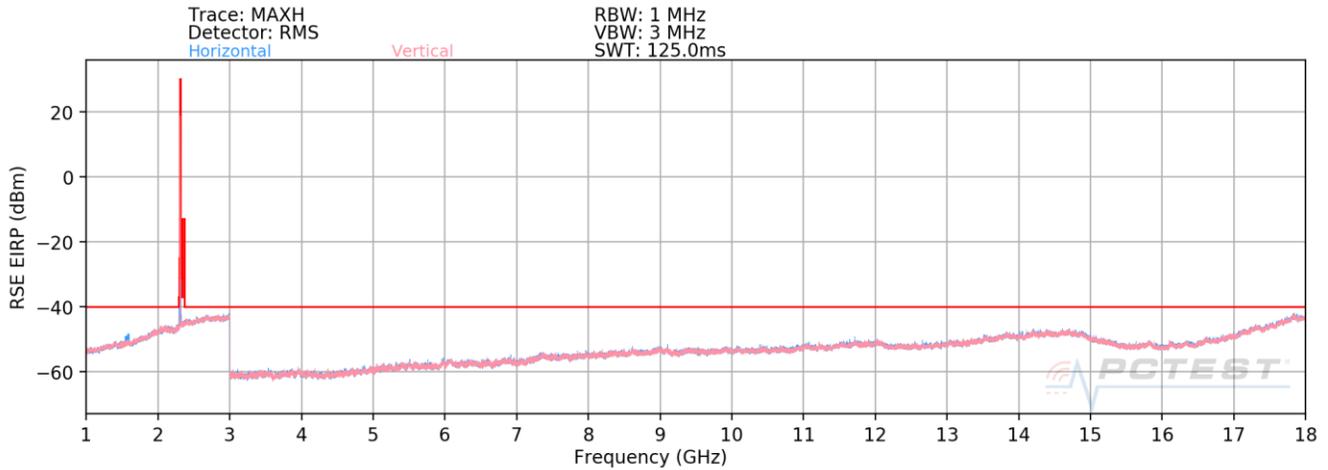
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

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]
5360.0	H	155	1	-74.51	8.14	40.63	-54.63	-25.00	-29.63
8040.0	H	-	-	-81.40	12.93	38.53	-56.73	-25.00	-31.73
10720.0	H	-	-	-82.24	16.12	40.88	-54.38	-25.00	-29.38
13400.0	H	-	-	-83.07	19.75	43.68	-51.58	-25.00	-26.58

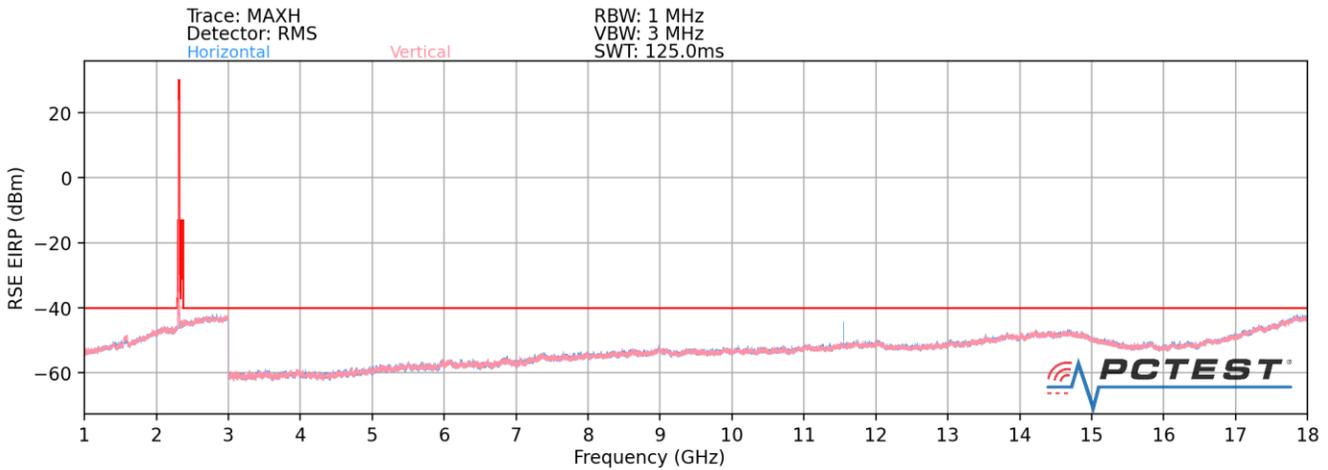
Table 7-27. Radiated Spurious Data (ULCA LTE B41(PC2) – High Channel)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## NR Band n30



Plot 7-154. Radiated Spurious Plot (NR Band n30) – OPEN



Plot 7-155. Radiated Spurious Plot (NR Band n30) - CLOSED

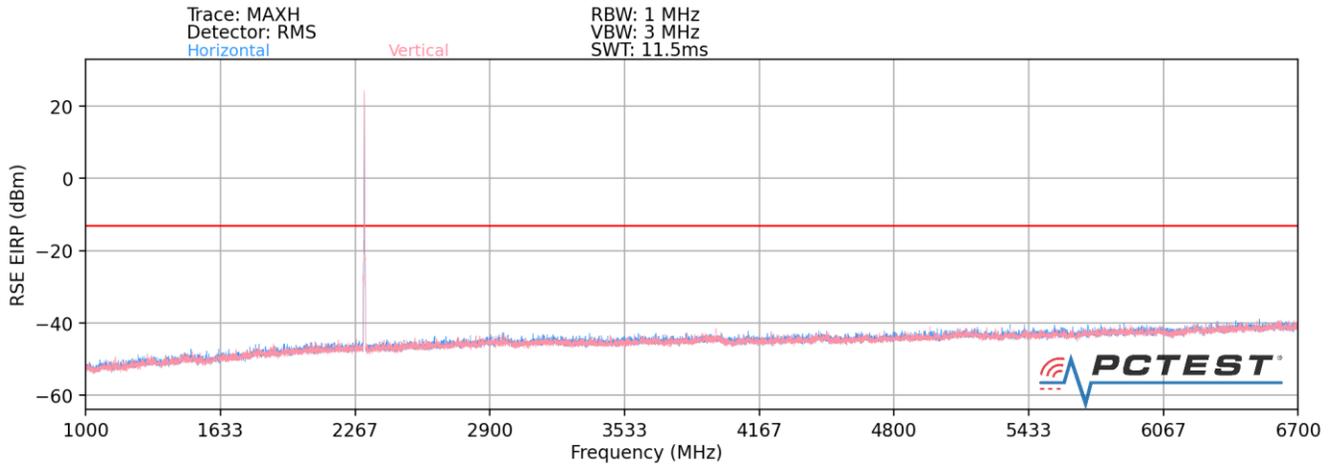
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1/26
Mode:	Standalone
Anchor Band:	-

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]
4620.0	H	142	338	-75.44	3.21	34.77	-60.49	-40.00	-20.49
6930.0	H	-	-	-78.08	7.38	36.30	-58.96	-40.00	-18.96
9240.0	H	138	32	-76.94	10.44	40.50	-54.76	-40.00	-14.76
11550.0	H	145	339	-71.81	13.84	49.03	-46.22	-40.00	-6.22
13860.0	H	-	-	-79.02	16.89	44.87	-50.38	-40.00	-10.38
16170.0	H	-	-	-79.19	14.25	42.06	-62.74	-40.00	-22.74

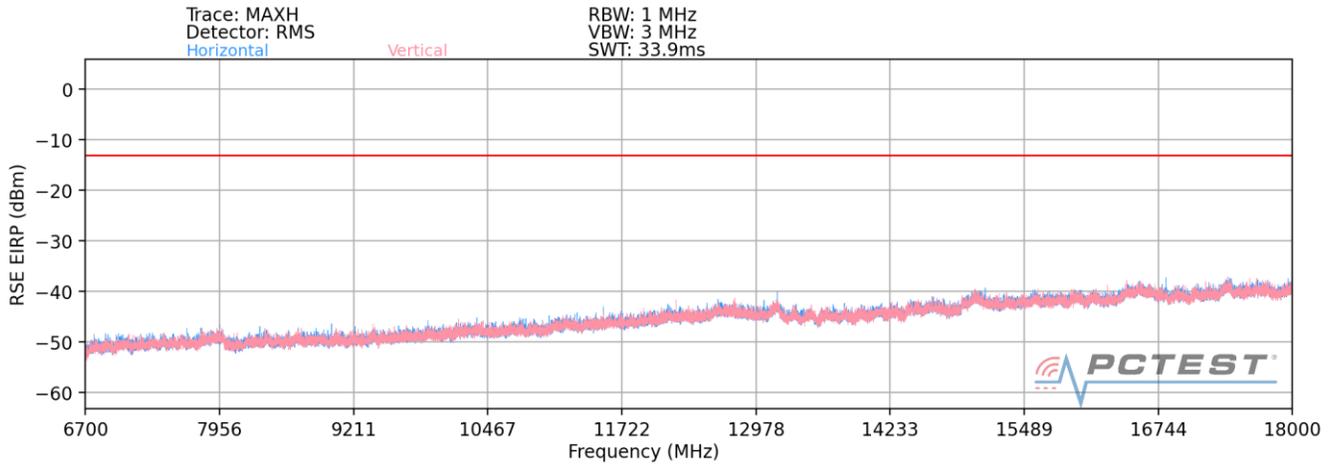
Table 7-28. Radiated Spurious Data (NR Band n30 – Mid Channel)

FCC ID: A3LSMF926U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset	Page 115 of 129

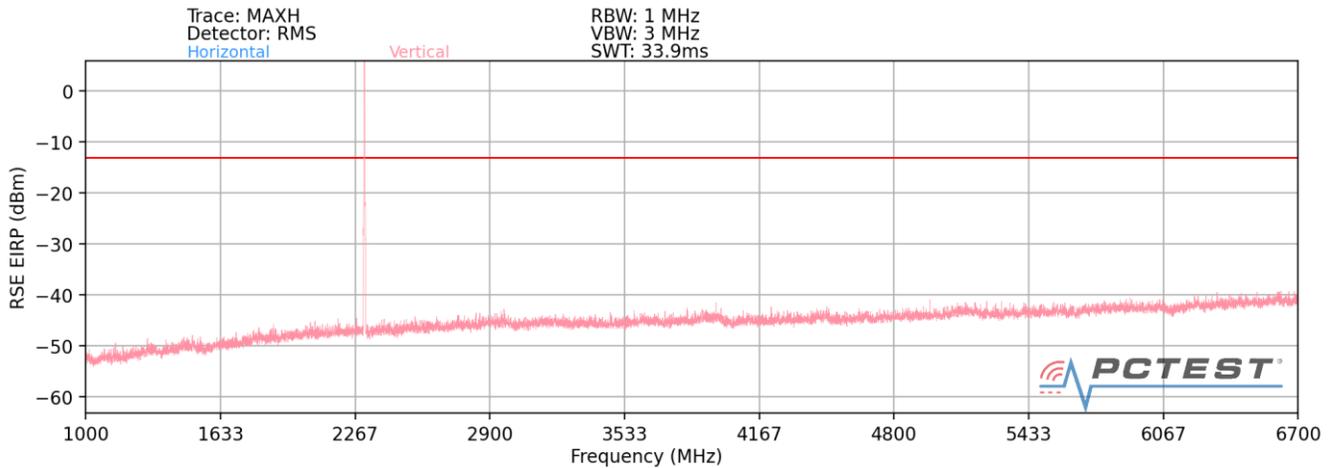
## NR Band n30 – B14



**Plot 7-156. Radiated Spurious Plot (NR Band n30 – B14) – OPEN**

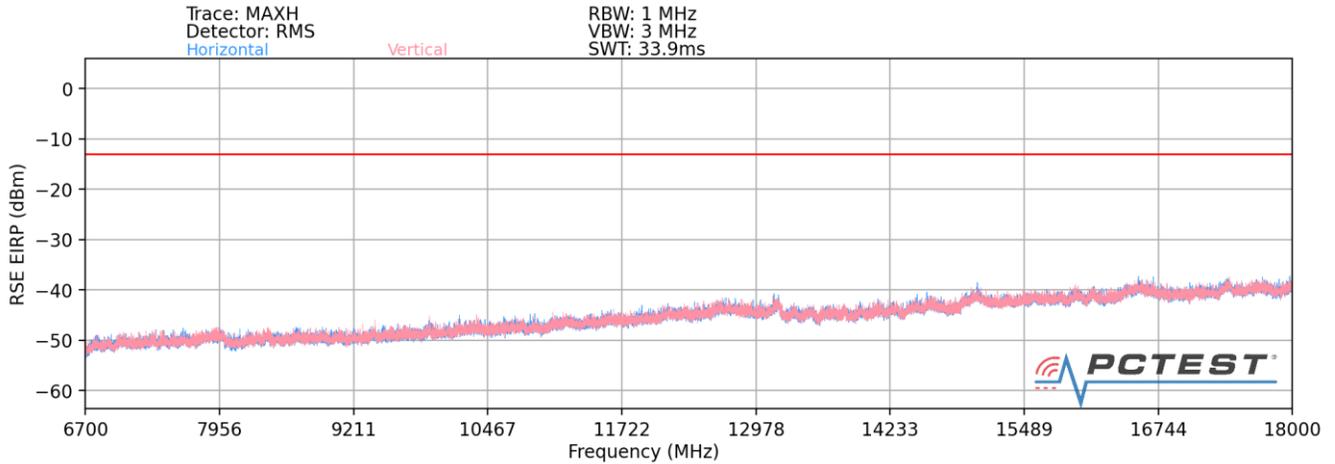


**Plot 7-157. Radiated Spurious Plot (NR Band n30 – B14) – OPEN**



**Plot 7-158. Radiated Spurious Plot (NR Band n30 – B14) – CLOSED**

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 116 of 129



Plot 7-159. Radiated Spurious Plot (NR Band n30 – B14) - CLOSED

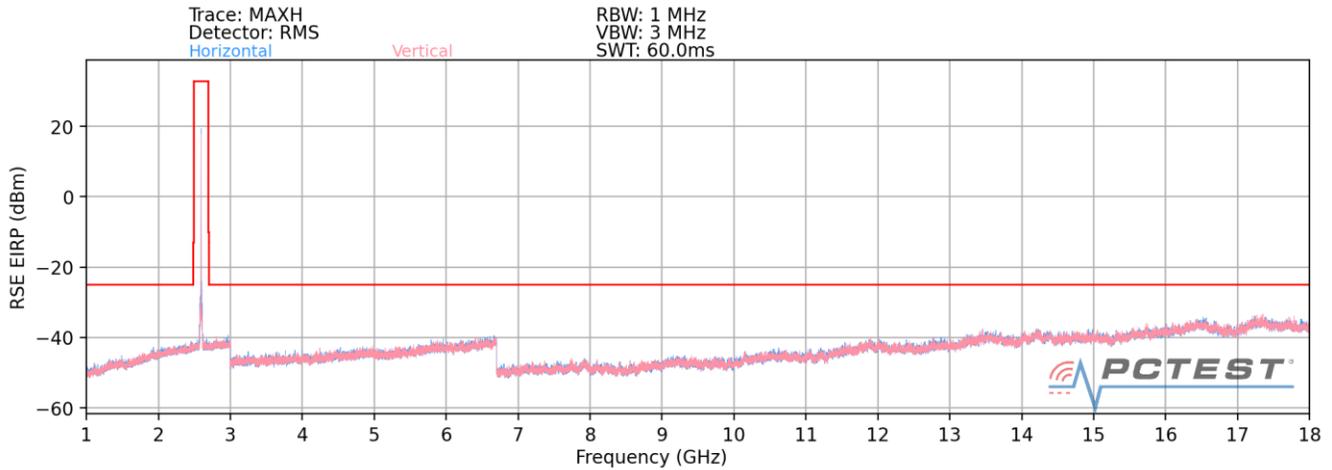
Bandwidth (MHz):	10 / 10
Frequency (MHz):	2310 / 793
RB / Offset:	1/26 & 1/25
Mode:	EN-DC
Anchor Band:	B14

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]
2241.0	V	-	-	-77.22	11.42	41.20	-54.06	-13.00	-41.06
3758.0	V	-	-	-79.16	14.65	42.49	-52.77	-13.00	-39.77
3827.0	V	195	258	-78.86	14.96	43.10	-52.15	-13.00	-39.15
13149.0	V	-	-	-82.17	20.37	45.20	-50.06	-13.00	-37.06
15031.0	V	-	-	-82.40	22.21	46.81	-48.45	-13.00	-35.45

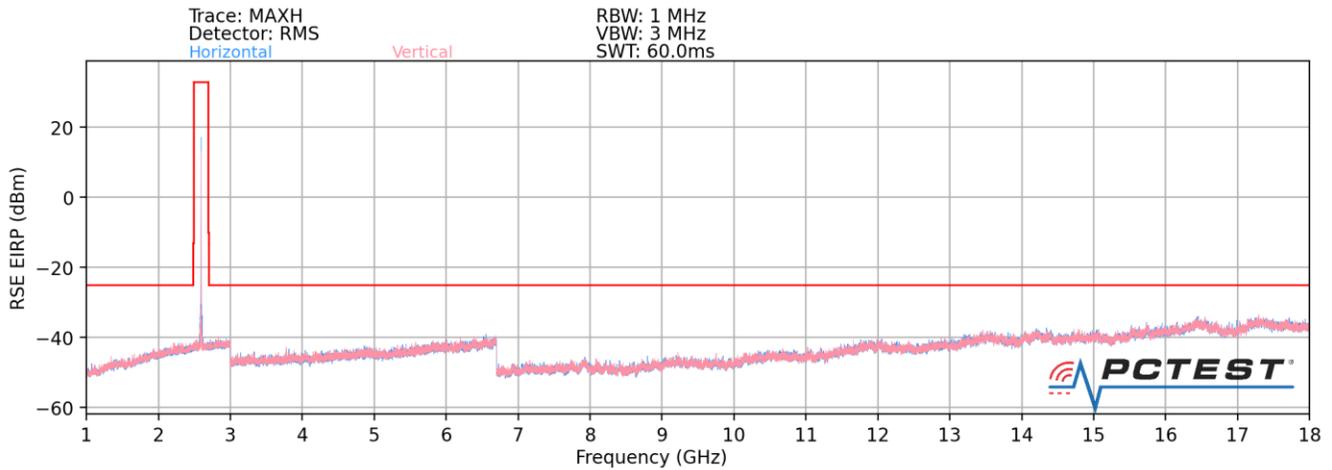
Table 7-29. Radiated Spurious Data (NR Band n30 – B14)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 117 of 129

## NR Band n41



Plot 7-160. Radiated Spurious Plot (NR Band n41) – OPEN



Plot 7-161. Radiated Spurious Plot (NR Band n41) - CLOSED

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 53
Mode:	Standalone

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]
5092.0	H	130	55	-65.33	11.42	53.09	-42.16	-25.00	-17.16
7638.0	H	-	-	-66.10	17.39	58.29	-36.97	-25.00	-11.97
10184.0	H	-	-	-67.01	21.16	61.15	-34.11	-25.00	-9.11

Table 7-30. Radiated Spurious Data (NR Band n41 – Low Channel)

FCC ID: A3LSMF926U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset	Page 118 of 129

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 53
Mode:	Standalone

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]
5186.0	H	130	256	-67.71	11.50	50.79	-44.46	-25.00	-19.46
7779.0	H	-	-	-66.57	17.43	57.86	-37.40	-25.00	-12.40
10372.0	H	-	-	-66.98	20.57	60.59	-34.66	-25.00	-9.66

Table 7-31. Radiated Spurious Data (NR Band n41 – Mid Channel)

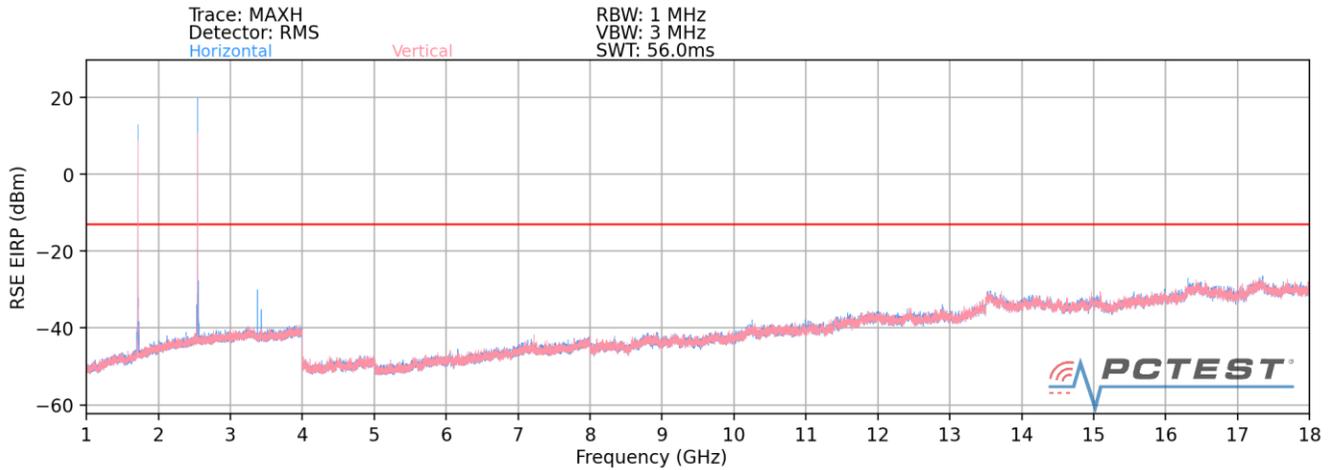
Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 53
Mode:	Standalone

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]
5280.0	H	142	44	-67.88	11.33	50.45	-44.81	-25.00	-19.81
7920.0	H	-	-	-66.43	17.02	57.59	-37.67	-25.00	-12.67
10560.0	H	-	-	-67.01	20.88	60.87	-34.38	-25.00	-9.38

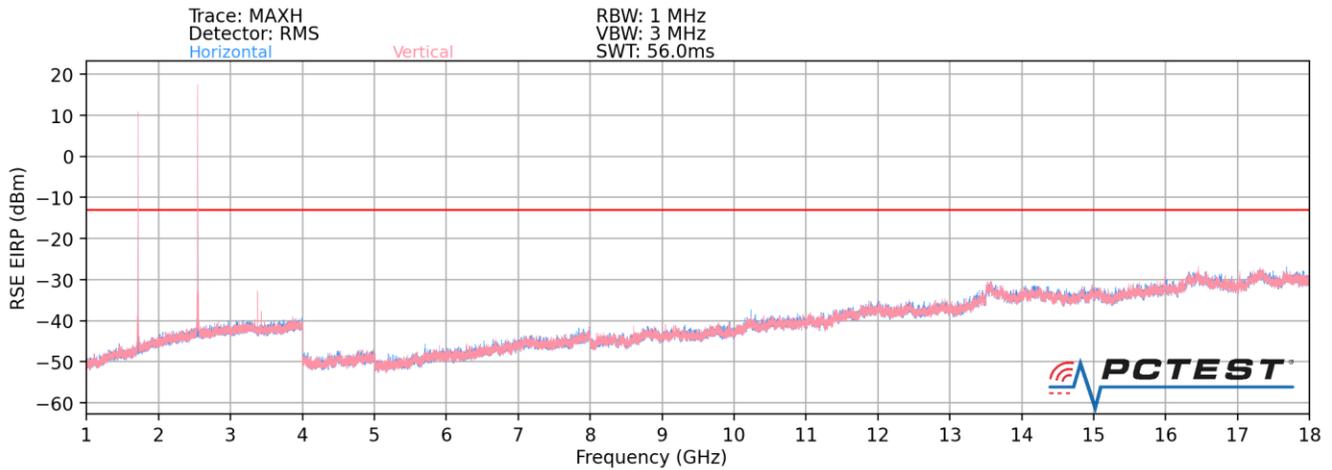
Table 7-32. Radiated Spurious Data (NR Band n41 – High Channel)

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 119 of 129

## NR Band n41 – B66



Plot 7-162. Radiated Spurious Plot (NR Band n41 – B66) – OPEN



Plot 7-163. Radiated Spurious Plot (NR Band n41 – B66) - CLOSED

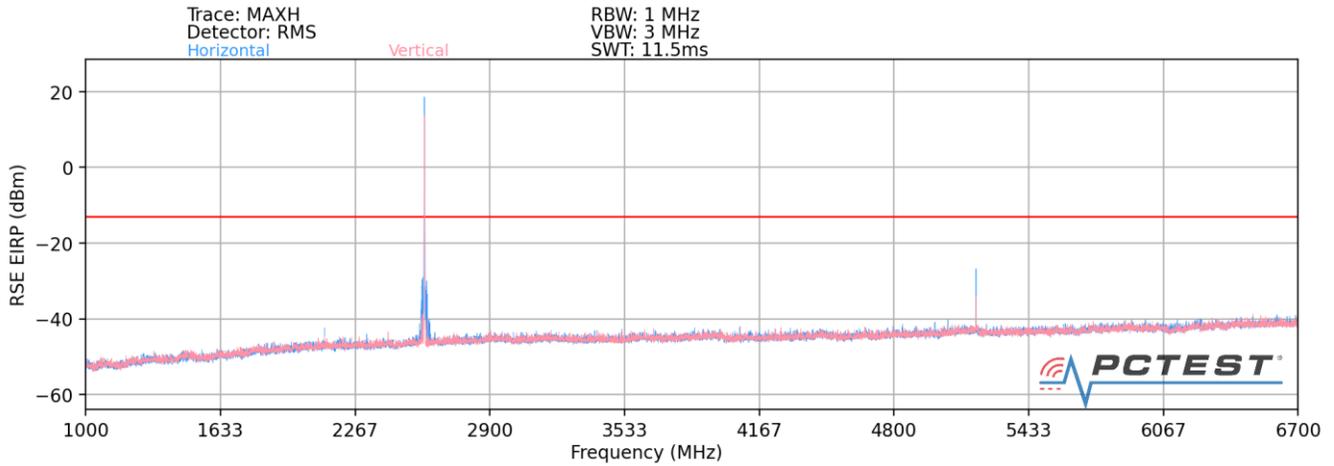
Bandwidth (MHz):	100 / 20
Frequency (MHz):	2593 / 1745
RB / Offset:	1 / 135 & 1 / 50
Mode:	EN-DC
Anchor Band:	66

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]
1647.0	H	-	-	-64.21	10.22	53.01	-42.25	-25.00	-17.25
3441.0	H	-	-	-65.01	16.88	58.87	-36.39	-25.00	-11.39
4289.0	H	-	-	-65.11	17.61	59.50	-35.75	-25.00	-10.75
5137.0	H	-	-	-66.24	19.90	60.66	-34.60	-25.00	-9.60

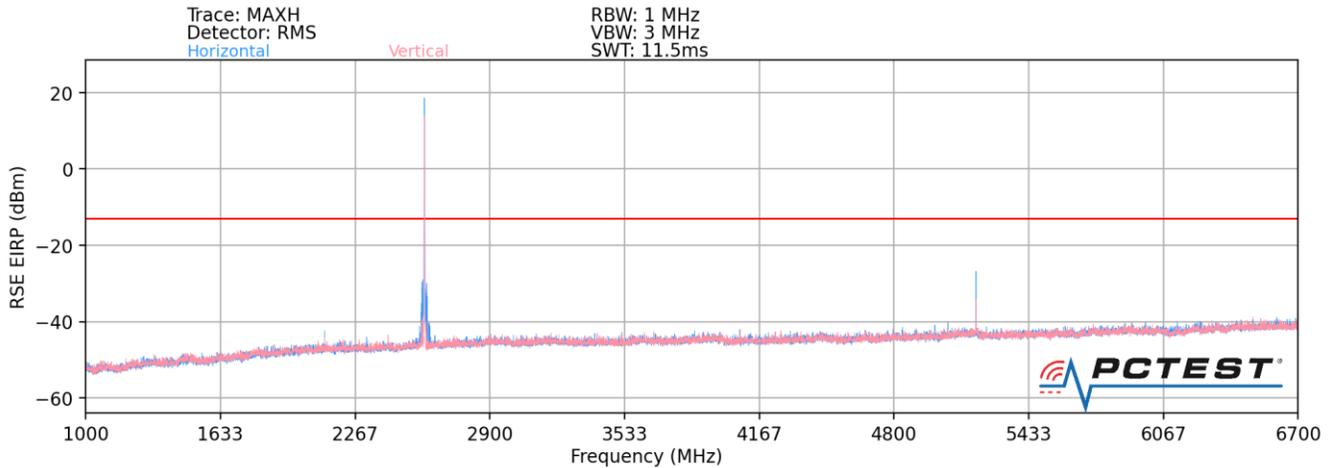
Table 7-33. Radiated Spurious Data (NR Band n41 – B66)

FCC ID: A3LSMF926U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset	Page 120 of 129

## NR Band n41 – B12



Plot 7-164. Radiated Spurious Plot (NR Band n41 – B12) – OPEN



Plot 7-165. Radiated Spurious Plot (NR Band n41 – B12) - CLOSED

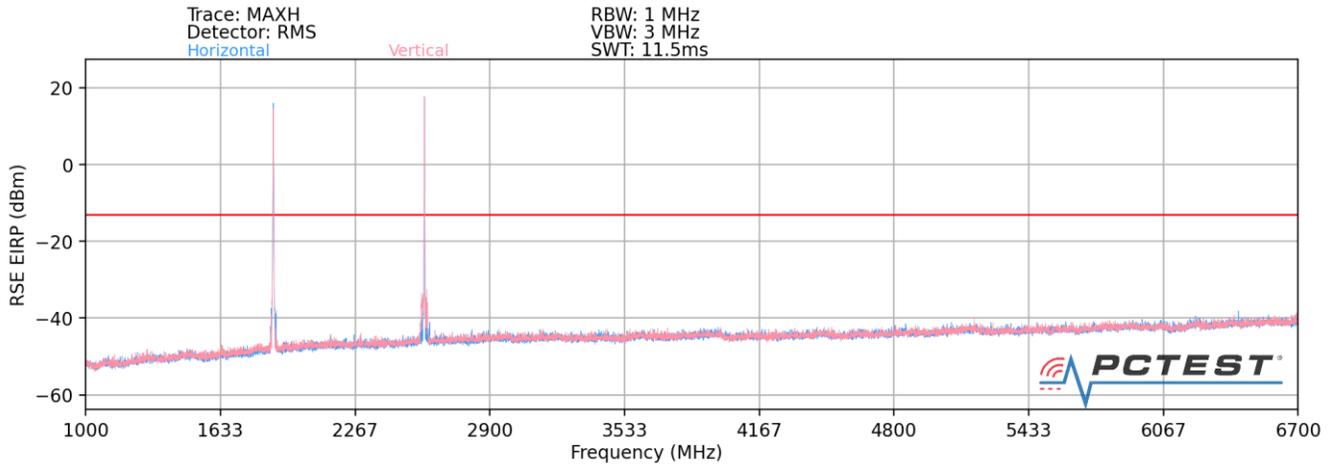
Bandwidth (MHz):	100 & 10
Frequency (MHz):	2593 & 707.5
RB / Offset:	1/136 & 1/25
Mode:	EN-DC
Anchor Band:	LTE Band 12

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]
4478.5	V	-	-	-70.86	11.00	47.14	-48.12	-13.00	-35.12
6364.0	V	-	-	-71.43	14.01	49.58	-45.68	-13.00	-32.68
8249.5	V	-	-	-73.26	17.48	51.22	-44.04	-13.00	-31.04
5280.8	V	152	55	-62.11	11.30	56.19	-39.07	-13.00	-26.07

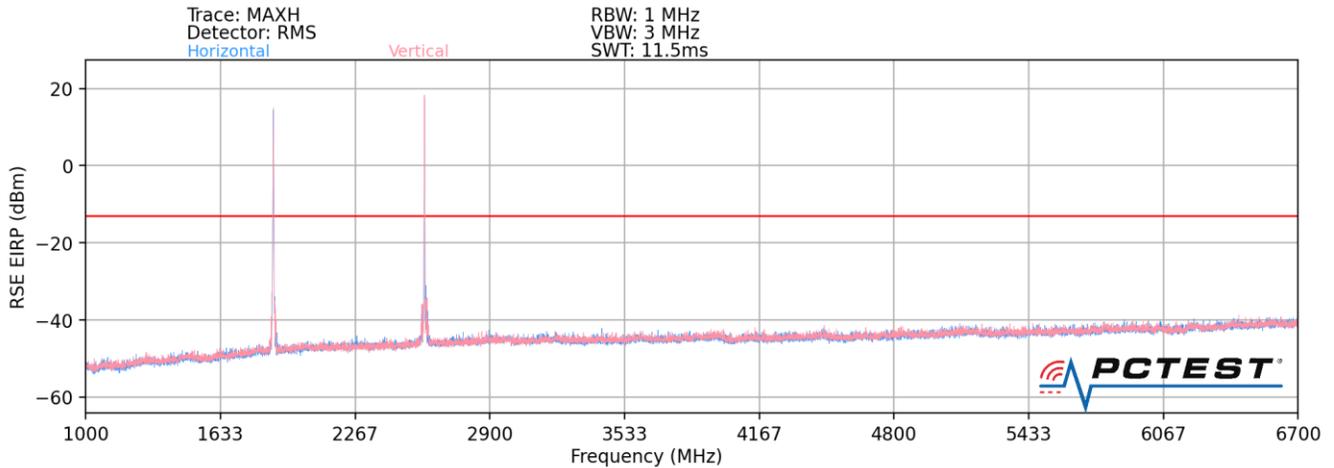
Table 7-34. Radiated Spurious Data (NR Band n41 – B12)

FCC ID: A3LSMF926U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## NR Band n41 – B25



Plot 7-166. Radiated Spurious Plot (NR Band n41 – B25) – OPEN



Plot 7-167. Radiated Spurious Plot (NR Band n41 – B25) - CLOSED

Bandwidth (MHz):	100 & 20
Frequency (MHz):	2593 & 1882.5
RB / Offset:	1/136 & 1/50
Mode:	EN-DC
Anchor Band:	LTE Band 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]
3303.5	V	-	-	-69.98	13.55	50.57	-44.68	-13.00	-31.68
4014.0	V	-	-	-70.74	14.64	50.90	-44.35	-13.00	-31.35
6856.0	V	-	-	-71.80	11.24	46.44	-48.82	-13.00	-35.82
16574.5	V	-	-	-74.67	25.78	58.11	-37.15	-13.00	-24.15
16803.0	V	-	-	-74.67	24.43	56.76	-38.50	-13.00	-25.50

Table 7-35. Radiated Spurious Data (NR Band n41 – B25)

FCC ID: A3LSMF926U	 PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## 7.9 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

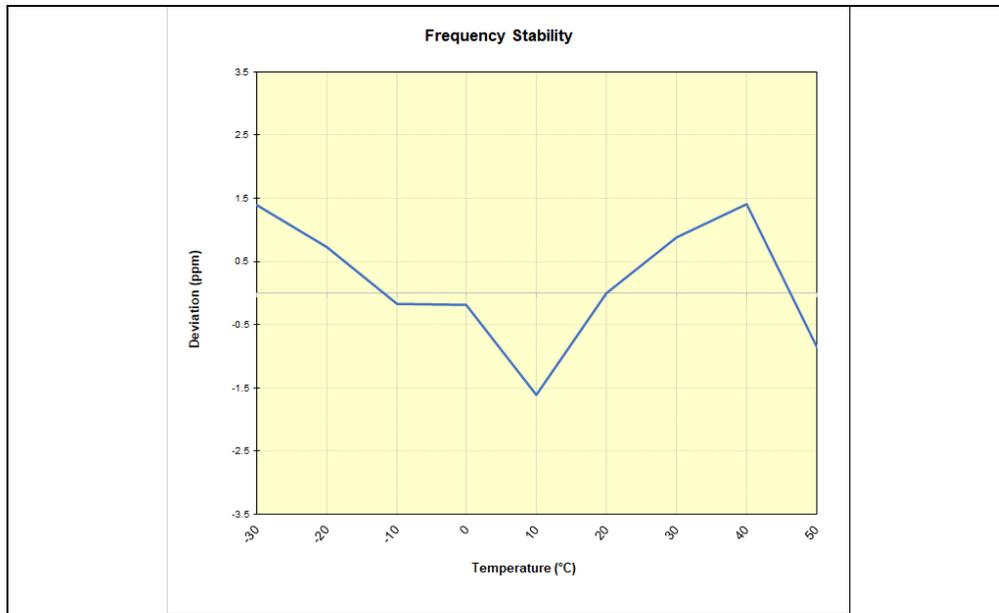
None

FCC ID: A3LSMF926U	 <b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
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# LTE Band 30

LTE Band 30					
Operating Frequency (Hz):		2,310,000,000			
Ref. Voltage (VDC):		4.32			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.32	- 30	2,310,047,039	3,210	0.0001390
		- 20	2,310,045,499	1,671	0.0000723
		- 10	2,310,043,425	-404	-0.0000175
		0	2,310,043,399	-430	-0.0000186
		+ 10	2,310,040,102	-3,726	-0.0001613
		+ 20 (Ref)	2,310,043,829	0	0.0000000
		+ 30	2,310,045,861	2,032	0.0000880
		+ 40	2,310,047,078	3,249	0.0001407
Battery Endpoint	2.47	+ 20	2,310,044,234	405	0.0000175

Table 7-36. LTE Band 30 Frequency Stability Data



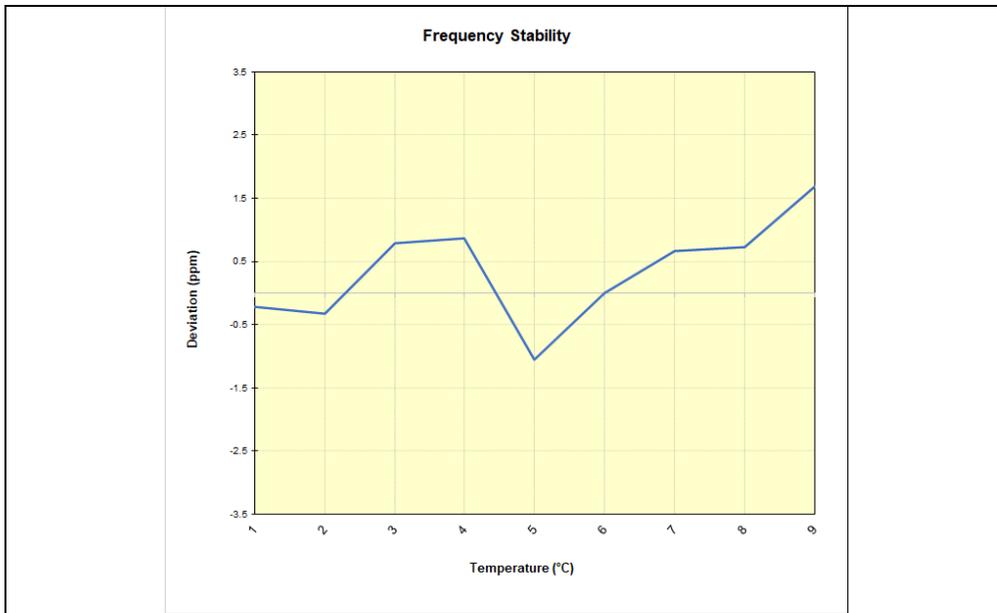
Plot 7-168. LTE Band 30 Frequency Stability Chart

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**LTE Band 7**

<b>LTE Band 7</b>					
Operating Frequency (Hz):		2,535,000,000			
Ref. Voltage (VDC):		4.32			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.32	- 30	2,535,091,071	-546	-0.0000216
		- 20	2,535,090,787	-831	-0.0000328
		- 10	2,535,093,608	1,990	0.0000785
		0	2,535,093,804	2,186	0.0000862
		+ 10	2,535,088,931	-2,687	-0.0001060
		+ 20 (Ref)	2,535,091,618	0	0.0000000
		+ 30	2,535,093,323	1,705	0.0000673
		+ 40	2,535,093,476	1,858	0.0000733
Battery Endpoint	2.47	+ 20	2,535,092,501	883	0.0000348

**Table 7-37. LTE Band 7 Frequency Stability Data**



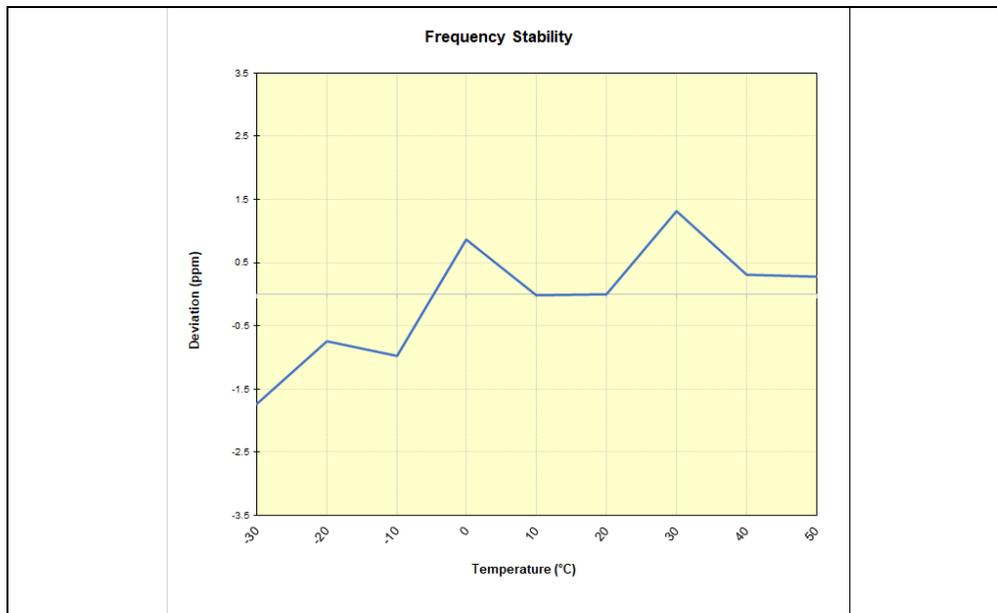
**Plot 7-169. LTE Band 7 Frequency Stability Chart**

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>Approved by:</b> Technical Manager
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**LTE Band 41**

<b>LTE Band 41</b>					
		Operating Frequency (Hz):		2,593,000,000	
		Ref. Voltage (VDC):		4.32	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.32	- 30	2,591,996,230	-4,486	-0.0001731
		- 20	2,591,998,793	-1,923	-0.0000742
		- 10	2,591,998,199	-2,517	-0.0000971
		0	2,592,002,982	2,266	0.0000874
		+ 10	2,592,000,675	-41	-0.0000016
		+ 20 (Ref)	2,592,000,716	0	0.0000000
		+ 30	2,592,004,134	3,418	0.0001319
		+ 40	2,592,001,532	817	0.0000315
Battery Endpoint	2.47	+ 20	2,592,000,520	-196	-0.0000075

**Table 7-38. LTE Band 41(PC2) Frequency Stability Data**



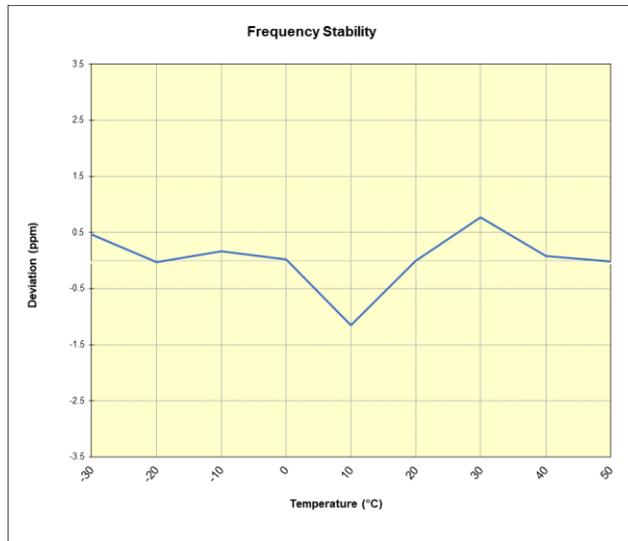
**Plot 7-170. LTE Band 41(PC2) Frequency Stability Chart**

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>SAMSUNG</b>	Approved by: Technical Manager
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**NR Band n41**

<b>NR Band n41</b>					
		Operating Frequency (Hz):		2,593,000,000	
		Ref. Voltage (VDC):		4.32	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.32	- 30	2,593,002,446	1,200	0.0000463
		- 20	2,593,001,190	-56	-0.0000022
		- 10	2,593,001,668	422	0.0000163
		0	2,593,001,295	49	0.0000019
		+ 10	2,592,998,242	-3,004	-0.0001159
		+ 20 (Ref)	2,593,001,246	0	0.0000000
		+ 30	2,593,003,250	2,004	0.0000773
		+ 40	2,593,001,470	224	0.0000086
+ 50	2,593,001,204	-42	-0.0000016		
Battery Endpoint	2.47	+ 20	2,593,000,824	-422	-0.0000163

**Table 7-39. NR Band n41 Frequency Stability Data**



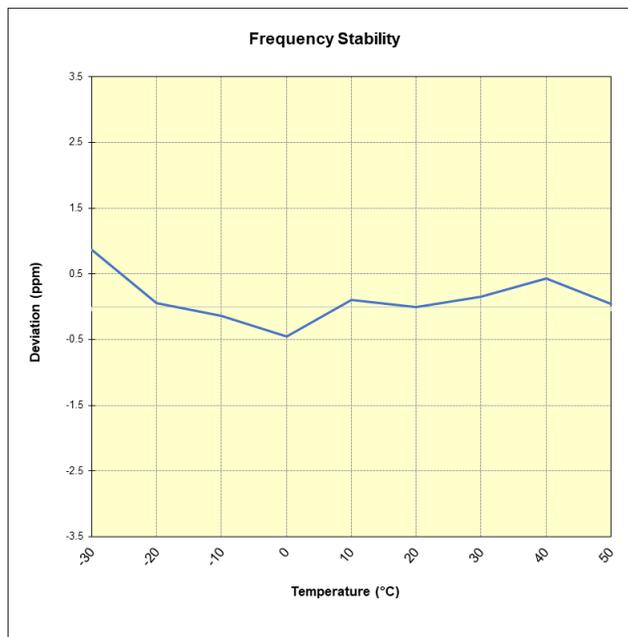
**Plot 7-171. NR Band n41 Frequency Stability Chart**

FCC ID: A3LSMF926U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>SAMSUNG</b>	Approved by: Technical Manager
Test Report S/N: 1M2104020031-05.A3L	Test Dates: 03/26 - 06/10/2021	EUT Type: Portable Handset		Page 127 of 129

### NR Band 30

NR Band n30					
Operating Frequency (Hz):		2,310,000,000			
Ref. Voltage (VDC):		4.32			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.32	- 30	2,310,002,450	2,001	0.0000866
		- 20	2,310,000,594	145	0.0000063
		- 10	2,310,000,135	-314	-0.0000136
		0	2,309,999,403	-1,046	-0.0000453
		+ 10	2,310,000,697	248	0.0000107
		+ 20 (Ref)	2,310,000,449	0	0.0000000
		+ 30	2,310,000,795	346	0.0000150
		+ 40	2,310,001,453	1,004	0.0000435
Battery Endpoi	2.47	+ 20	2,310,001,356	907	0.0000393

Table 7-40. NR Band n30 Frequency Stability Data



Plot 7-172. NR Band n30 Frequency Stability Chart

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the Samsung **Portable Handset** **FCC ID: A3LSMF926U** complies with all the requirements of Part 27 of the FCC rules.

<b>FCC ID:</b> A3LSMF926U	 <b>PART 27 MEASUREMENT REPORT</b> 		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2104020031-05.A3L	<b>Test Dates:</b> 03/26 - 06/10/2021	<b>EUT Type:</b> Portable Handset	Page 129 of 129