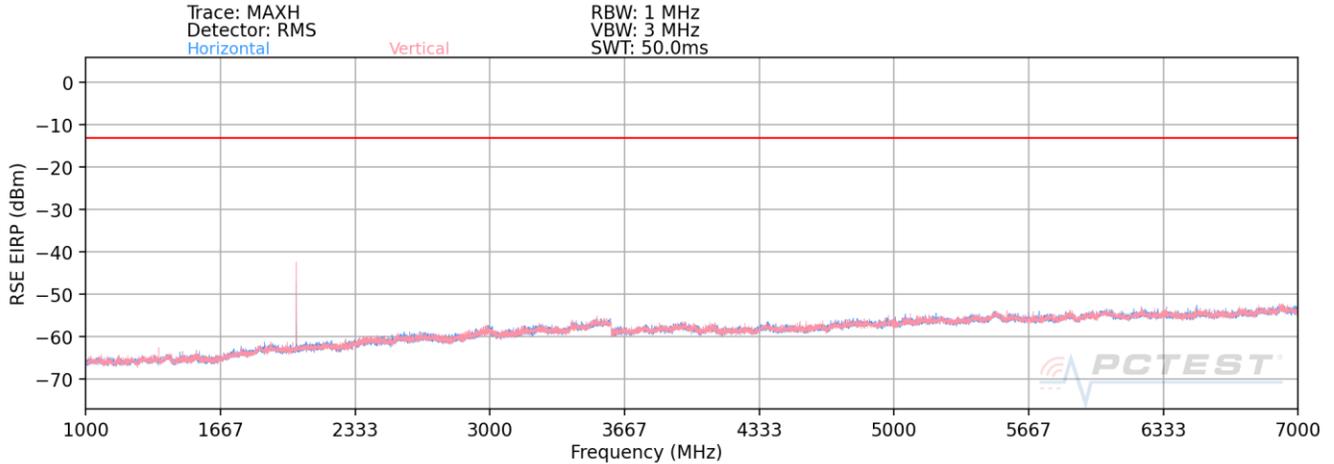
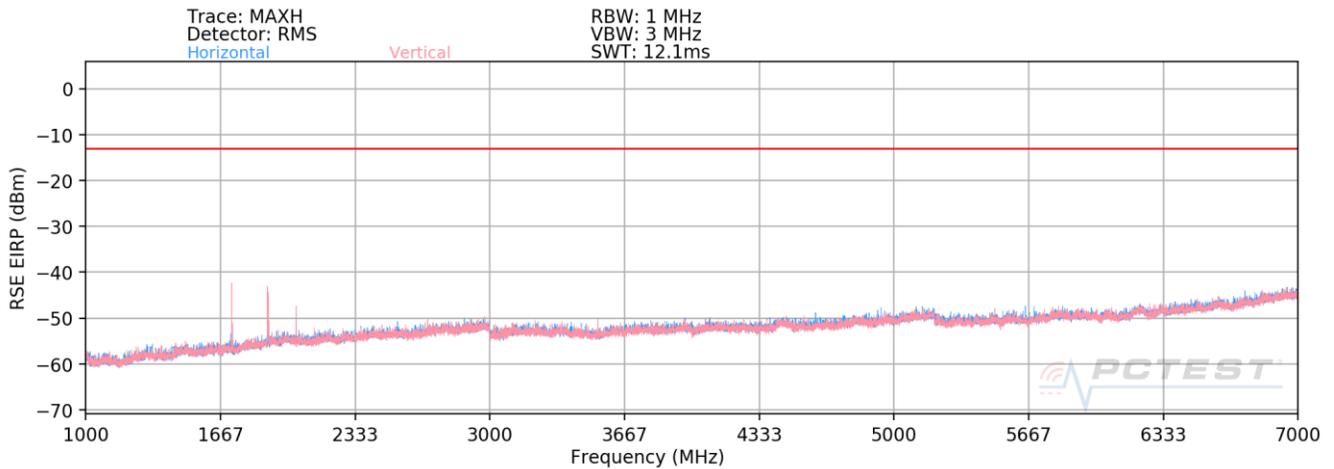


## LTE Band 71 AntA + AntB



**Plot 7-398. Radiated Spurious Plot (LTE Band 71 – AntA + AntB) – Open**



**Plot 7-399. Radiated Spurious Plot (LTE Band 71 – AntA + AntB) - Closed**

Bandwidth (MHz):	20
Frequency (MHz):	673.0
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]
1346.0	H	323	31	-74.19	-5.76	27.05	-68.21	-13.00	-55.21
2019.0	H	130	131	-55.36	-3.57	48.07	-47.18	-13.00	-34.18
2692.0	H	-	-	-75.81	-1.16	30.03	-65.23	-13.00	-52.23
3365.0	H	120	170	-74.61	0.28	32.67	-62.59	-13.00	-49.59
4038.0	H	-	-	-76.61	2.16	32.55	-62.71	-13.00	-49.71
4711.0	H	-	-	-76.15	3.25	34.10	-61.16	-13.00	-48.16

**Table 7-17. Radiated Spurious Data (LTE Band 71 – Low Channel – AntA + AntB)**

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 238 of 276

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	400	359	-74.02	-6.04	26.94	-68.31	-13.00	-55.31
2041.5	H	132	126	-55.46	-3.27	48.27	-46.98	-13.00	-33.98
2722.0	H	-	-	-75.60	-1.38	30.02	-65.24	-13.00	-52.24
3402.5	H	113	111	-72.82	0.58	34.76	-60.49	-13.00	-47.49
4083.0	H	-	-	-76.49	2.52	33.03	-62.23	-13.00	-49.23
4763.5	H	-	-	-76.89	3.65	33.76	-61.50	-13.00	-48.50

**Table 7-18. Radiated Spurious Data (LTE Band 71 – Mid Channel – AntA + AntB)**

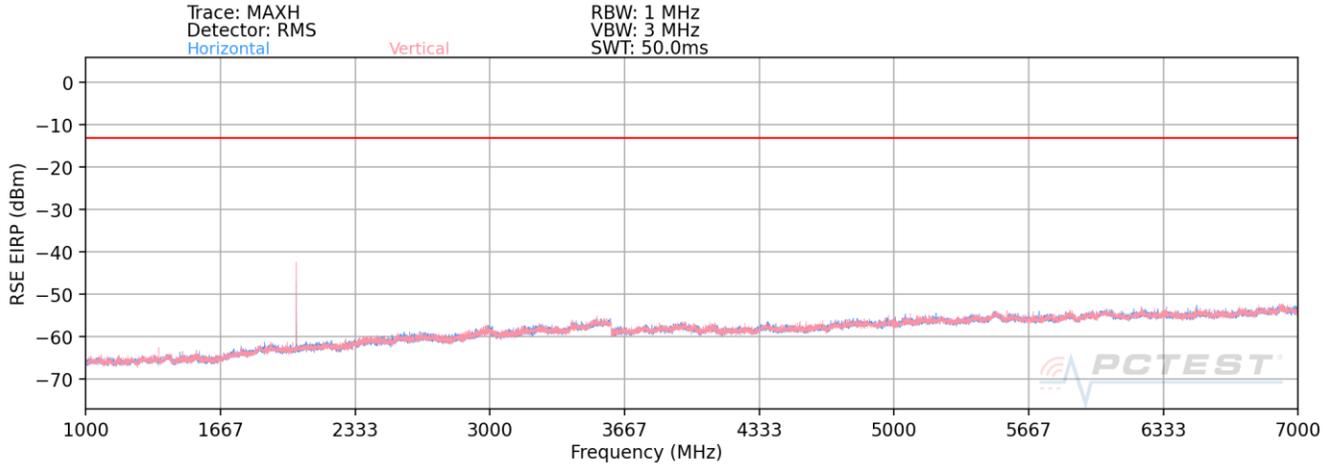
Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

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]
1376.0	H	394	40	-74.83	-5.76	26.41	-68.84	-13.00	-55.84
2064.0	H	136	129	-55.24	-3.36	48.40	-46.86	-13.00	-33.86
2752.0	H	-	-	-75.57	-1.70	29.73	-65.53	-13.00	-52.53
3440.0	H	145	111	-74.37	0.48	33.11	-62.14	-13.00	-49.14
4128.0	H	-	-	-76.19	1.86	32.67	-62.58	-13.00	-49.58
4816.0	H	-	-	-76.71	3.78	34.07	-61.19	-13.00	-48.19

**Table 7-19. Radiated Spurious Data (LTE Band 71 – High Channel – AntA + AntB)**

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 239 of 276

## LTE Band 71 AntA



Plot 7-400. Radiated Spurious Plot (LTE Band 71 – AntA)

Bandwidth (MHz):	20
Frequency (MHz):	673.0
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]
1346.0	H	162	222	-63.46	-0.64	42.90	-52.36	-13.00	-39.36
2019.0	H	264	124	-62.77	3.47	47.70	-47.56	-13.00	-34.56
2692.0	H	-	-	-62.36	5.57	50.21	-45.05	-13.00	-32.05
3365.0	H	-	-	-62.33	7.12	51.79	-43.47	-13.00	-30.47

Table 7-20. Radiated Spurious Data (LTE Band 71 – Low Channel – AntA)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	H	159	216	-64.10	-0.46	42.44	-52.82	-13.00	-39.82
2041.5	H	266	115	-61.70	3.78	49.08	-46.18	-13.00	-33.18
2722.0	H	-	-	-62.41	6.43	51.02	-44.24	-13.00	-31.24
3402.5	H	-	-	-62.19	7.53	52.34	-42.92	-13.00	-29.92

Table 7-21. Radiated Spurious Data (LTE Band 71 – Mid Channel – AntA)

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 240 of 276

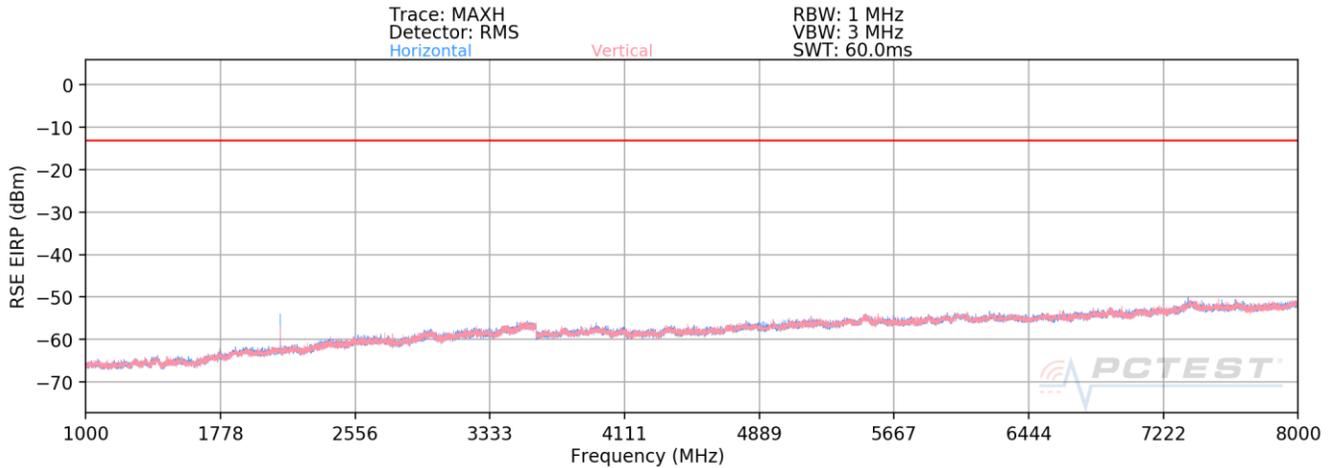
Bandwidth (MHz):	20
Frequency (MHz):	688.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	H	160	208	-64.21	-0.26	42.53	-52.73	-13.00	-39.73
2064.0	H	265	104	-62.01	3.82	48.81	-46.44	-13.00	-33.44
2752.0	H	-	-	-62.33	6.48	51.15	-44.11	-13.00	-31.11
3440.0	H	-	-	-62.41	7.77	52.36	-42.90	-13.00	-29.90

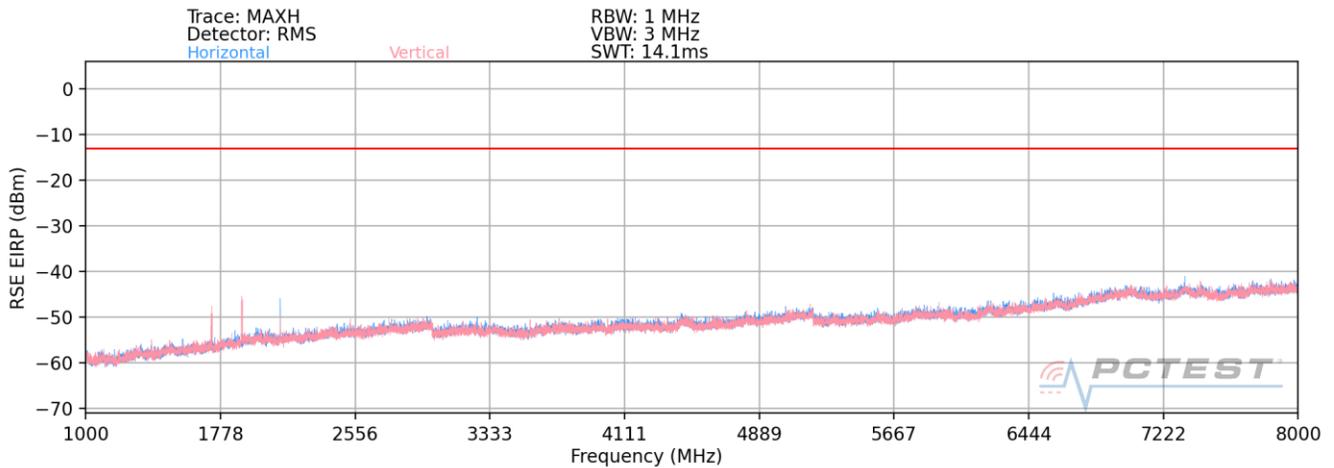
**Table 7-22. Radiated Spurious Data (LTE Band 71 – High Channel – AntA)**

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: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset	Page 241 of 276	

## LTE Band 12 – AntA + AntB



**Plot 7-401. Radiated Spurious Plot (LTE Band 12 – AntA + AntB) – Open**



**Plot 7-402. Radiated Spurious Plot (LTE Band 12 – AntA + AntB) - Closed**

Bandwidth (MHz):	10
Frequency (MHz):	704.0
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]
1408.0	V	282	14	-67.00	-5.28	34.72	-60.53	-13.00	-47.53
2112.0	V	131	35	-57.48	-2.79	46.73	-48.52	-13.00	-35.52
2816.0	V	-	-	-70.13	-1.67	35.20	-60.06	-13.00	-47.06
3520.0	V	-	-	-70.08	1.49	38.41	-56.85	-13.00	-43.85

**Table 7-23. Radiated Spurious Data (LTE Band 12 – Low Channel – AntA + AntB)**

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 242 of 276

Bandwidth (MHz):	10
Frequency (MHz):	707.5
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]
1415.0	V	282	21	-67.20	-5.29	34.51	-60.74	-13.00	-47.74
2122.5	V	180	36	-57.83	-2.98	46.19	-49.07	-13.00	-36.07
2830.0	V	-	-	-70.34	-1.25	35.41	-59.85	-13.00	-46.85
3537.5	V	-	-	-70.11	1.57	38.46	-56.80	-13.00	-43.80

**Table 7-24. Radiated Spurious Data (LTE Band 12 – Mid Channel – AntA + AntB)**

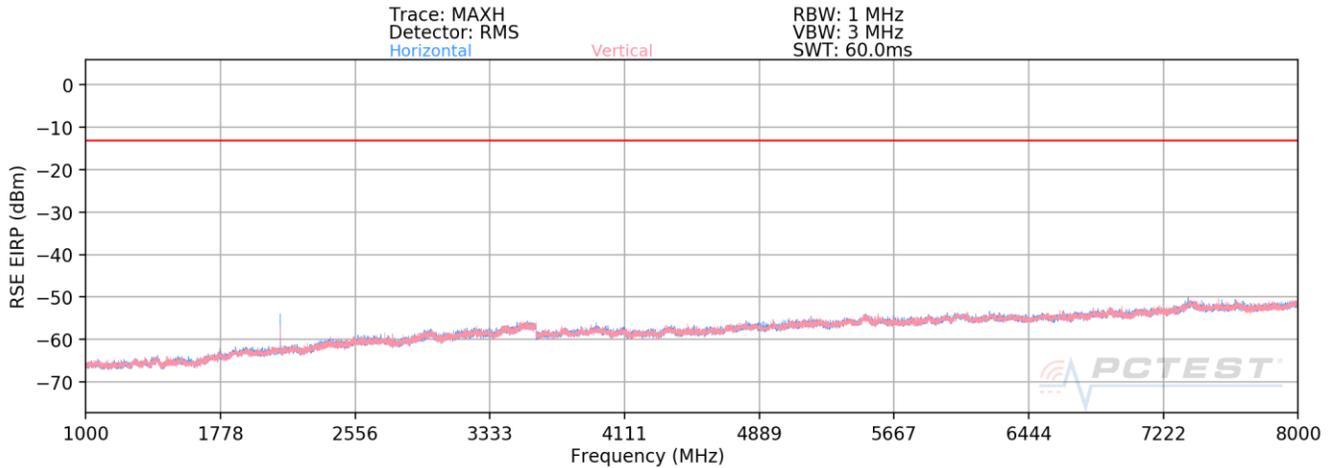
Bandwidth (MHz):	10
Frequency (MHz):	711.0
RB / Offset:	1 / 25

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]
1422.0	V	359	14	-67.69	-5.66	33.65	-61.61	-13.00	-48.61
2133.0	V	124	33	-59.38	-3.22	44.40	-50.86	-13.00	-37.86
2844.0	V	-	-	-70.29	-1.17	35.54	-59.72	-13.00	-46.72
3555.0	V	393	49	-69.23	1.43	39.20	-56.05	-13.00	-43.05
4266.0	V	-	-	-69.51	2.13	39.62	-55.64	-13.00	-42.64
4977.0	V	-	-	-69.62	3.76	41.14	-54.12	-13.00	-41.12

**Table 7-25. Radiated Spurious Data (LTE Band 12 – High Channel – AntA + AntB)**

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 243 of 276

## LTE Band 12 – AntA



**Plot 7-403. Radiated Spurious Plot (LTE Band 12 – AntA)**

Bandwidth (MHz):	10
Frequency (MHz):	704.0
RB / Offset:	1 / 25
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
1408.0	V	-	-	-68.01	0.71	39.70	-55.56	-13.00	-42.56
2112.0	V	201	44	-64.44	4.02	46.58	-48.68	-13.00	-35.68
2816.0	V	-	-	-68.11	5.88	44.77	-50.49	-13.00	-37.49
3520.0	V	-	-	-70.10	7.12	44.02	-51.24	-13.00	-38.24

**Table 7-26. Radiated Spurious Data (LTE Band 12 – Low Channel – AntA)**

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
1415.0	V	-	-	-67.76	0.70	39.94	-55.32	-13.00	-42.32
2122.5	V	199	34	-63.67	3.94	47.27	-47.98	-13.00	-34.98
2830.0	V	-	-	-68.08	5.99	44.91	-50.35	-13.00	-37.35
3537.5	V	-	-	-69.46	7.65	45.19	-50.07	-13.00	-37.07

**Table 7-27. Radiated Spurious Data (LTE Band 12 – Mid Channel – AntA)**

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: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset	Page 244 of 276	

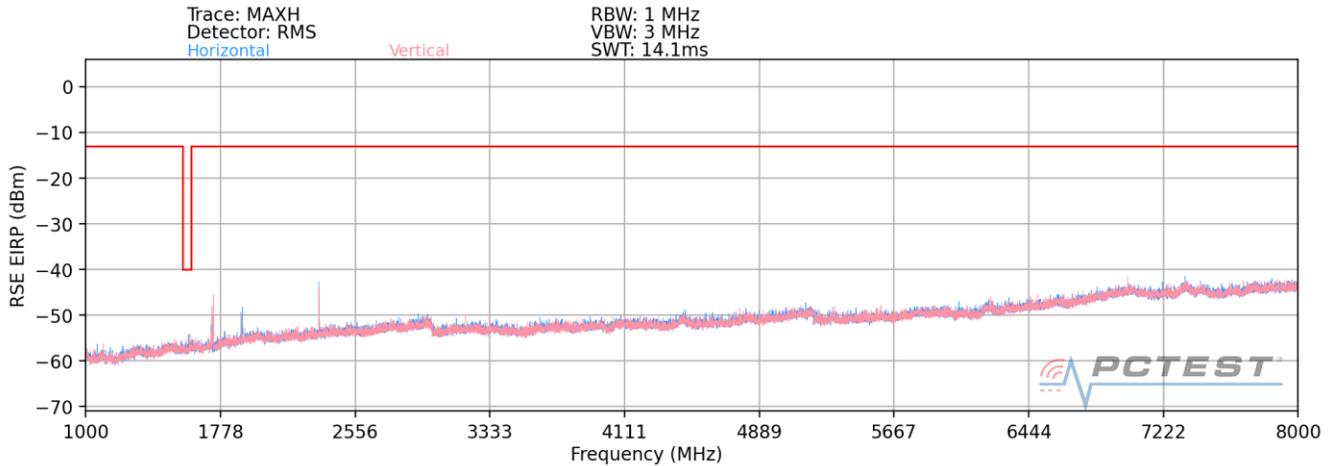
Bandwidth (MHz):	10
Frequency (MHz):	711.0
RB / Offset:	1 / 25
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
1422.0	V	-	-	-68.00	0.33	39.33	-55.93	-13.00	-42.93
2133.0	V	199	34	-63.71	3.85	47.14	-48.12	-13.00	-35.12
2844.0	V	-	-	-68.11	6.03	44.92	-50.33	-13.00	-37.33
3555.0	V	-	-	-70.11	8.30	45.19	-50.07	-13.00	-37.07

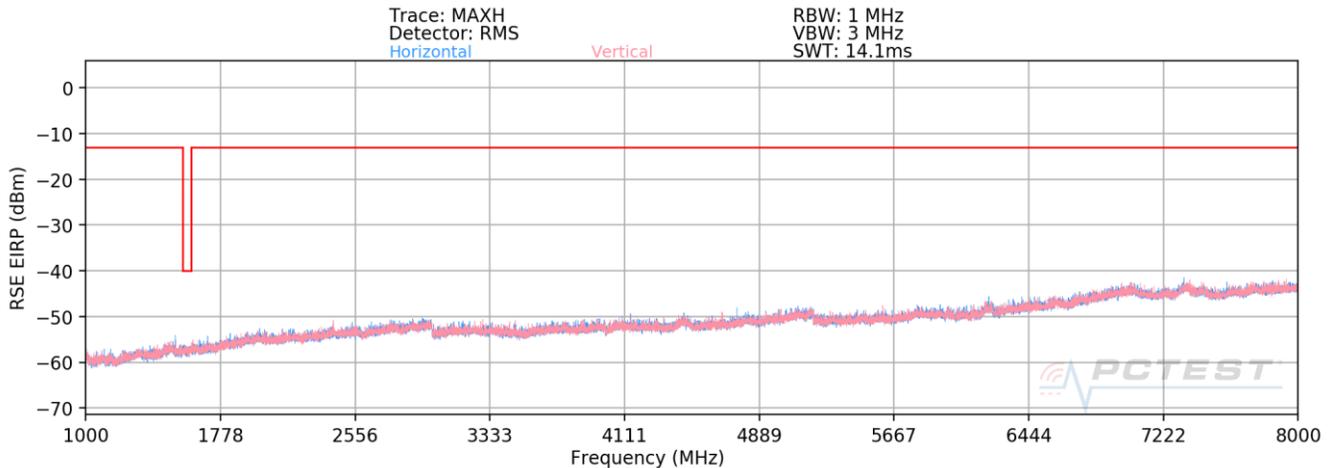
**Table 7-28. Radiated Spurious Data (LTE Band 12 – High Channel – AntA)**

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 245 of 276	

# LTE Band 13 – AntA + AntB



**Plot 7-404. Radiated Spurious Plot (LTE Band 13 – AntA + AntB) – Open**



**Plot 7-405. Radiated Spurious Plot (LTE Band 13 – AntA + AntB) – Closed**

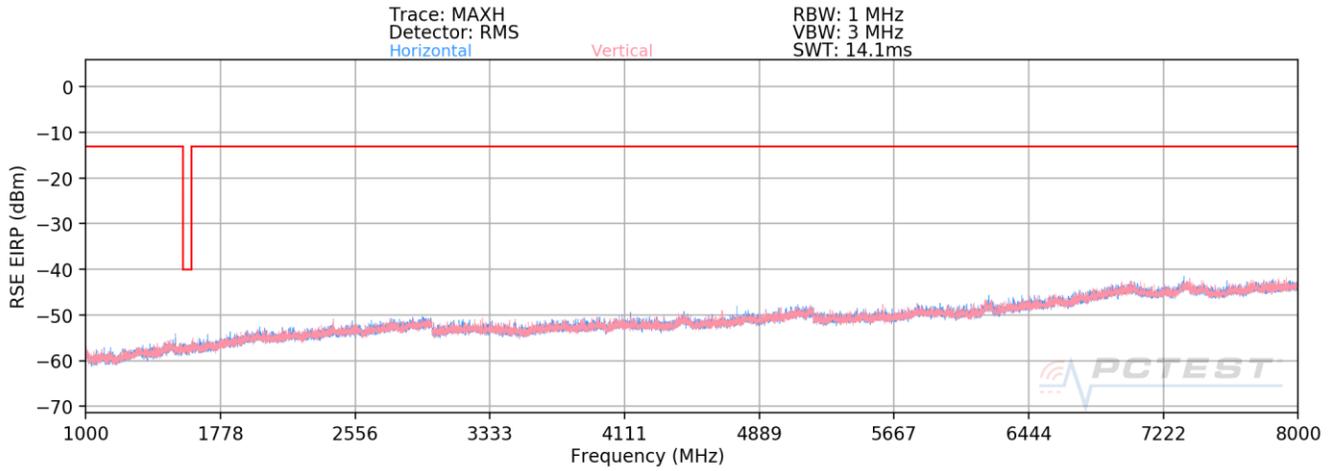
Bandwidth (MHz):	10
Frequency (MHz):	782.0
RB / Offset:	1 / 25

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]
1564.0	H	393	46	-76.77	-0.36	29.87	-65.39	-40.00	-25.39
2346.0	H	215	162	-64.33	2.89	45.56	-49.70	-13.00	-36.70
3128.0	H	-	-	-78.05	4.26	33.21	-62.05	-13.00	-49.05
3910.0	H	-	-	-78.28	5.10	33.82	-61.44	-13.00	-48.44
4692.0	H	-	-	-79.29	5.79	33.50	-61.76	-13.00	-48.76

**Table 7-29. Radiated Spurious Data (LTE Band 13 – Mid Channel – AntA + AntB)**

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 246 of 276	

## LTE Band 13 – AntA



**Plot 7-406. Radiated Spurious Plot (LTE Band 13 – AntA)**

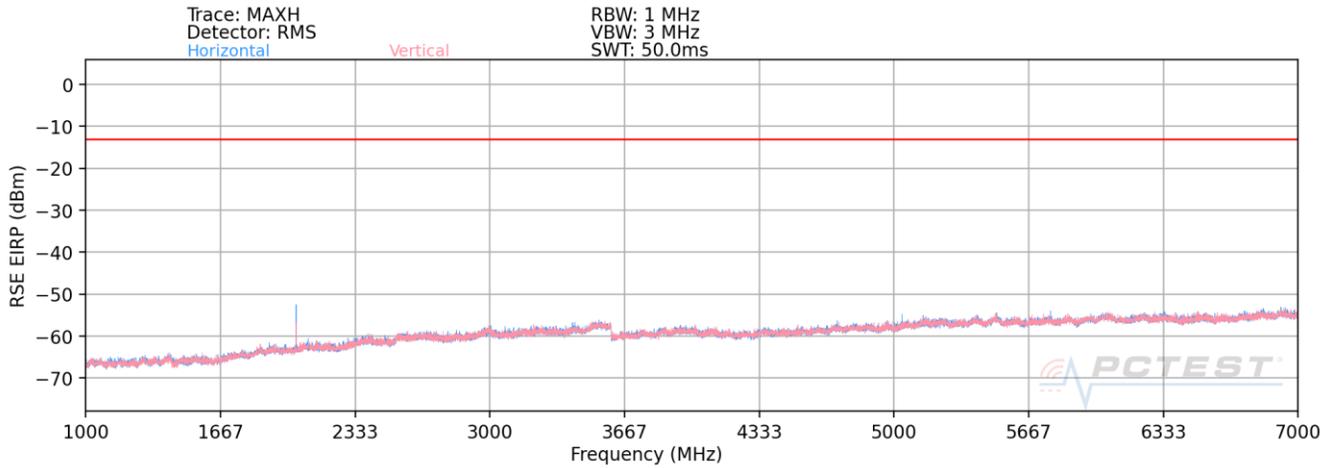
Bandwidth (MHz):	10
Frequency (MHz):	782.0
RB / Offset:	1 / 25
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
1564.0	V	-	-	-68.56	-0.36	38.08	-57.18	-40.00	-17.18
2346.0	V	243	335	-57.44	2.89	52.45	-42.81	-13.00	-29.81
3128.0	V	-	-	-68.96	4.26	42.30	-52.96	-13.00	-39.96
3910.0	V	-	-	-66.99	5.10	45.11	-50.15	-13.00	-37.15

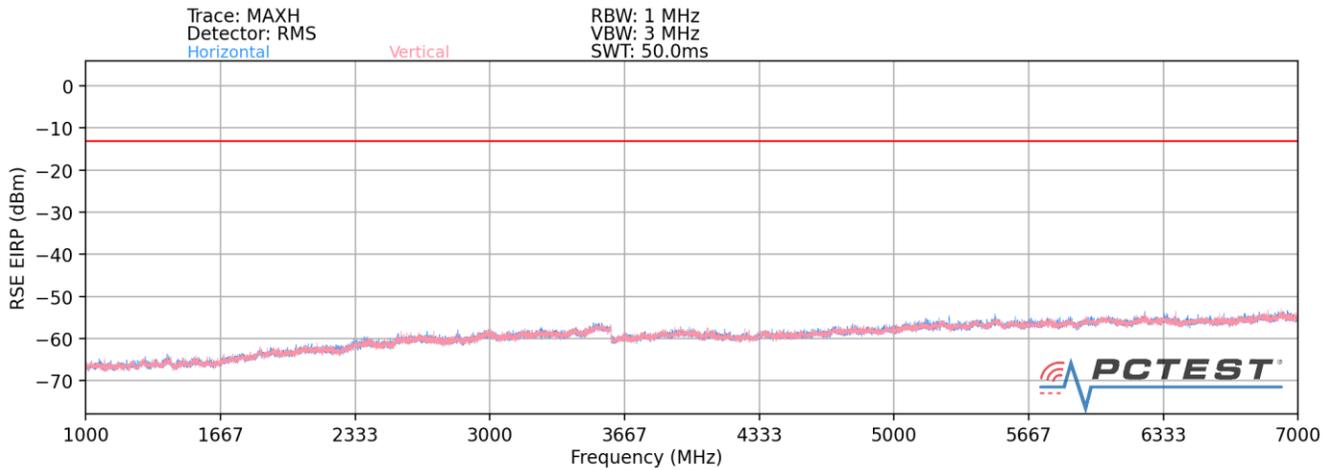
**Table 7-30. Radiated Spurious Data (LTE Band 13 – Mid Channel – AntA)**

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: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset	Page 247 of 276	

## NR Band n71



**Plot 7-407. Radiated Spurious Plot (NR Band n71) – Open**



**Plot 7-408. Radiated Spurious Plot (NR Band n71) - Closed**

Bandwidth (MHz):	20
Frequency (MHz):	673.0
RB / Offset:	1 / 51
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]
1346.0	H	-	-	-75.26	-5.76	25.98	-69.28	-13.00	-56.28
2019.0	H	258	14	-66.81	-3.57	36.62	-58.63	-13.00	-45.63
2692.0	H	-	-	-74.25	-1.16	31.59	-63.67	-13.00	-50.67
3365.0	H	-	-	-74.66	0.28	32.62	-62.64	-13.00	-49.64

**Table 7-31. Radiated Spurious Data (NR Band n71 – Low Channel)**

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: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset	Page 248 of 276	

<b>Bandwidth (MHz):</b>	20
<b>Frequency (MHz):</b>	680.5
<b>RB / Offset:</b>	1 / 51
<b>Mode:</b>	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]
1361.0	H	157	101	-74.47	-6.04	26.49	-68.76	-13.00	-55.76
2041.5	H	212	326	-62.80	-3.27	40.93	-54.32	-13.00	-41.32
2722.0	H	-	-	-74.18	-1.38	31.44	-63.82	-13.00	-50.82
3402.5	H	-	-	-74.44	0.58	33.14	-62.11	-13.00	-49.11

**Table 7-32. Radiated Spurious Data (NR Band n71 – Mid Channel)**

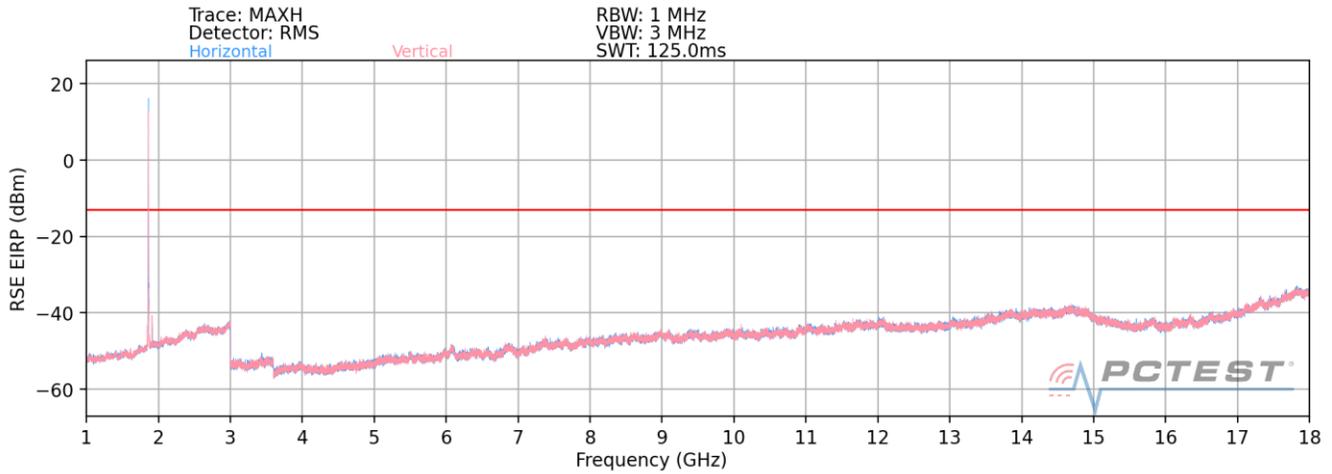
<b>Bandwidth (MHz):</b>	20
<b>Frequency (MHz):</b>	688.0
<b>RB / Offset:</b>	1 / 51
<b>Mode:</b>	Standalone

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]
1376.0	H	166	202	-73.92	-5.76	27.32	-67.93	-13.00	-54.93
2064.0	H	162	330	-63.54	-3.36	40.10	-55.16	-13.00	-42.16
2752.0	H	-	-	-74.19	-1.70	31.11	-64.15	-13.00	-51.15
3440.0	H	-	-	-74.41	0.48	33.07	-62.18	-13.00	-49.18

**Table 7-33. Radiated Spurious Data (NR Band n71 – High Channel)**

<b>FCC ID:</b> 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> 1M2104020031-04.A3L	<b>Test Dates:</b> 3/26 – 06/10/2021	<b>EUT Type:</b> Portable Handset	Page 249 of 276	

## NR Band n71 – B2



**Plot 7-409. Radiated Spurious Plot (NR Band n71 – B2)**

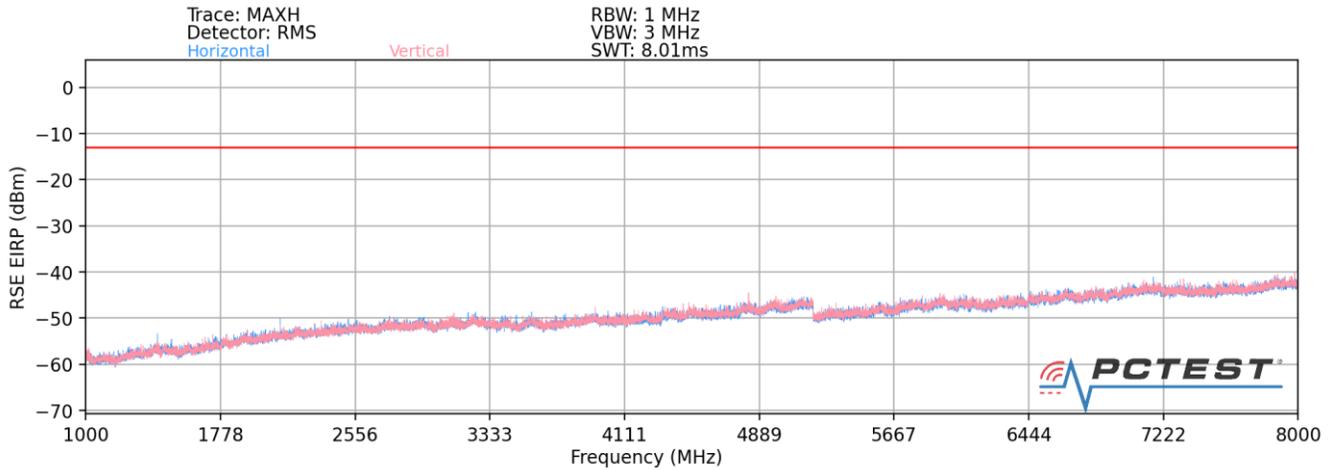
Bandwidth (MHz):	20 / 20
Frequency (MHz):	673 / 1880
RB / Offset:	1 / 53 % 1 / 50
Mode:	EN-DC
Anchor Band:	2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1741.0	H	-	-	-61.69	-4.39	40.92	-54.34	-13.00	-41.34
2948.0	H	-	-	-59.97	0.21	47.24	-48.02	-13.00	-35.02
3087.0	H	-	-	-61.21	-0.30	45.49	-49.77	-13.00	-36.77
4294.0	H	-	-	-66.01	2.06	43.05	-52.21	-13.00	-39.21

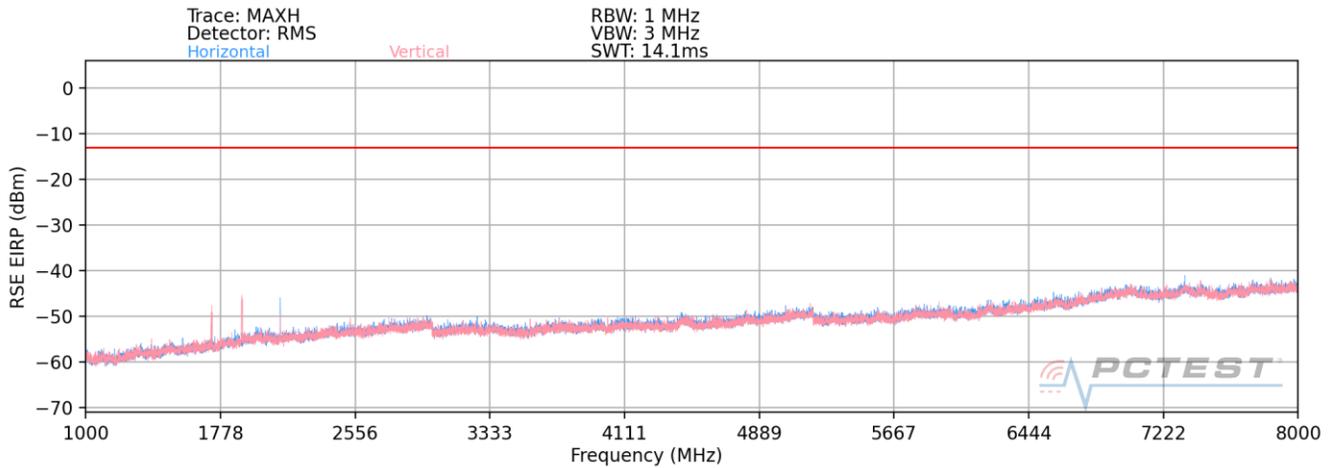
**Table 7-34. Radiated Spurious Data (NR Band n71 – B2)**

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: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset	Page 250 of 276	

## NR Band n12



**Plot 7-410. Radiated Spurious Plot (NR Band n12) – Open**



**Plot 7-411. Radiated Spurious Plot (NR Band n12) - Closed**

Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1 / 37
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]
1413.0	V	-	-	-65.53	0.77	42.24	-53.02	-13.00	-40.02
2119.5	V	349	78	-56.19	3.97	54.78	-40.47	-13.00	-27.47
2826.0	V	355	111	-66.36	5.96	46.60	-48.66	-13.00	-35.66
3532.5	V	-	-	-66.21	7.46	48.25	-47.01	-13.00	-34.01

**Table 7-35. Radiated Spurious Data (NR Band n12 – Low Channel)**

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 251 of 276	

Bandwidth (MHz):	15
Frequency (MHz):	707.5
RB / Offset:	1 / 37
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]
1415.0	V	-	-	-65.45	0.70	42.25	-53.01	-13.00	-40.01
2122.5	V	356	94	-55.96	3.94	54.98	-40.27	-13.00	-27.27
2830.0	V	352	103	-66.03	5.99	46.96	-48.30	-13.00	-35.30
3537.5	V	-	-	-67.83	7.65	46.82	-48.44	-13.00	-35.44

Table 7-36. Radiated Spurious Data (NR Band n12 – Mid Channel)

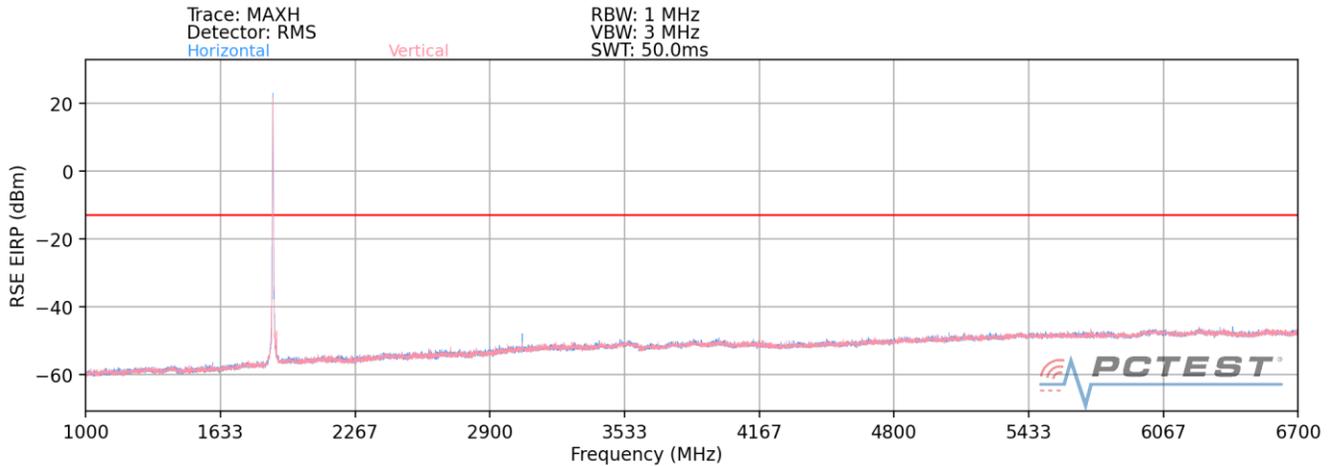
Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 37
Mode:	Standalone

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]
1417.0	V	-	-	-66.01	0.59	41.58	-53.67	-13.00	-40.67
2125.5	V	351	88	-56.31	3.91	54.60	-40.65	-13.00	-27.65
2834.0	V	351	101	-66.41	6.02	46.61	-48.65	-13.00	-35.65
3542.5	V	-	-	-66.53	7.86	48.33	-46.93	-13.00	-33.93

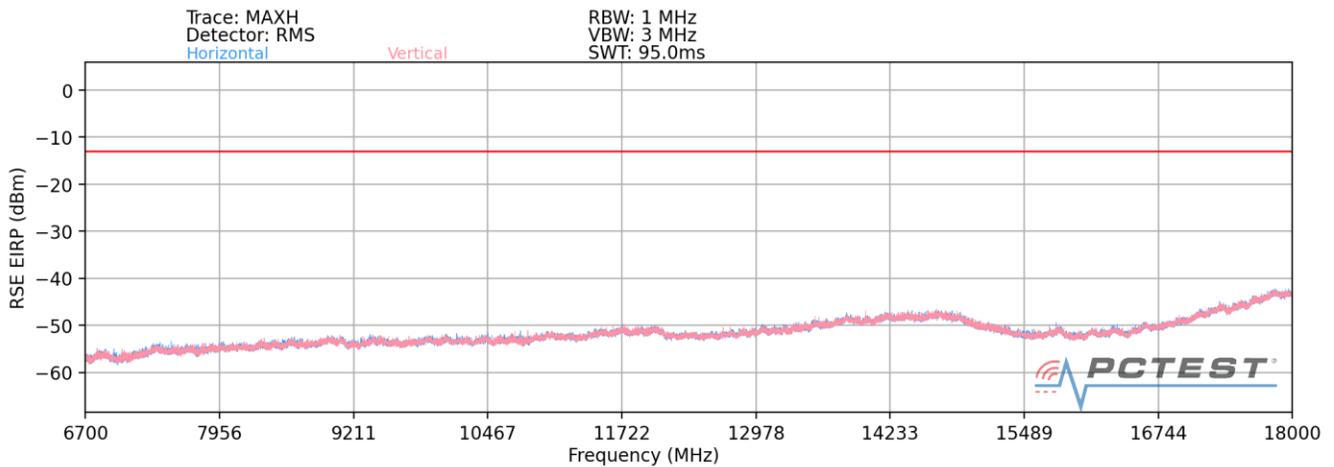
Table 7-37. Radiated Spurious Data (NR Band n12 – High Channel)

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 252 of 276

## NR Band n12 – B2



**Plot 7-412. Radiated Spurious Plot (NR Band n12) – B2**



**Plot 7-413. Radiated Spurious Plot (NR Band n12) – B2**

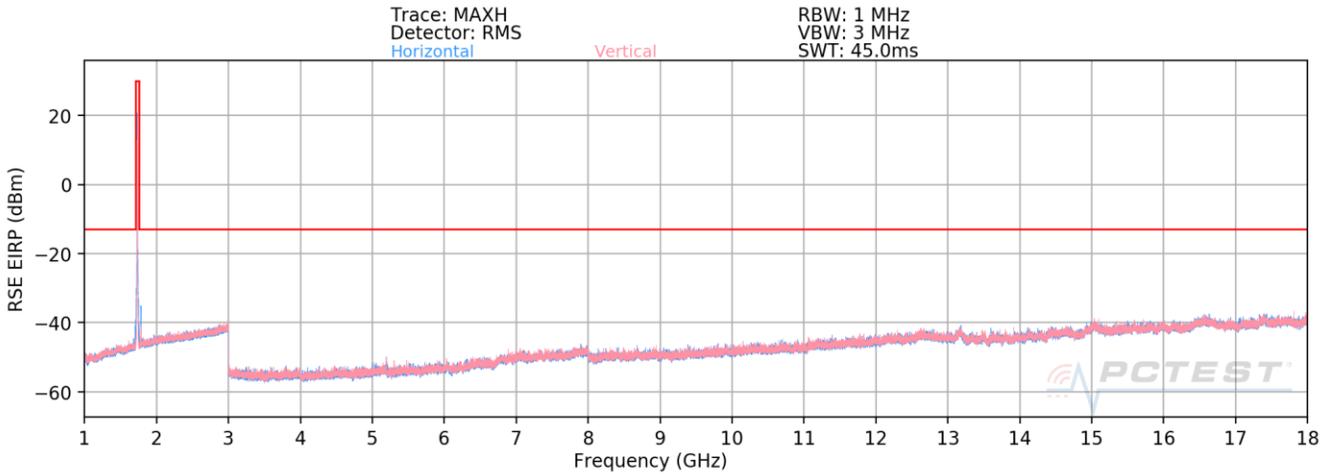
<b>Bandwidth (MHz):</b>	15/20
<b>Frequency (MHz):</b>	707.5/1880
<b>RB / Offset:</b>	1/39 & 1/50
<b>Mode:</b>	EN-DC
<b>Anchor Band:</b>	B2

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]
1637.5	H	-	-	-77.01	3.05	33.04	-62.22	-13.00	-49.22
2810.0	H	-	-	-77.22	7.36	37.14	-58.12	-13.00	-45.12
3052.5	H	115	122	-59.37	9.12	56.75	-38.51	-13.00	-25.51
3982.5	H	-	-	-78.75	11.95	40.20	-55.06	-13.00	-42.06
6570.0	H	-	-	-80.05	16.01	42.96	-52.30	-13.00	-39.30

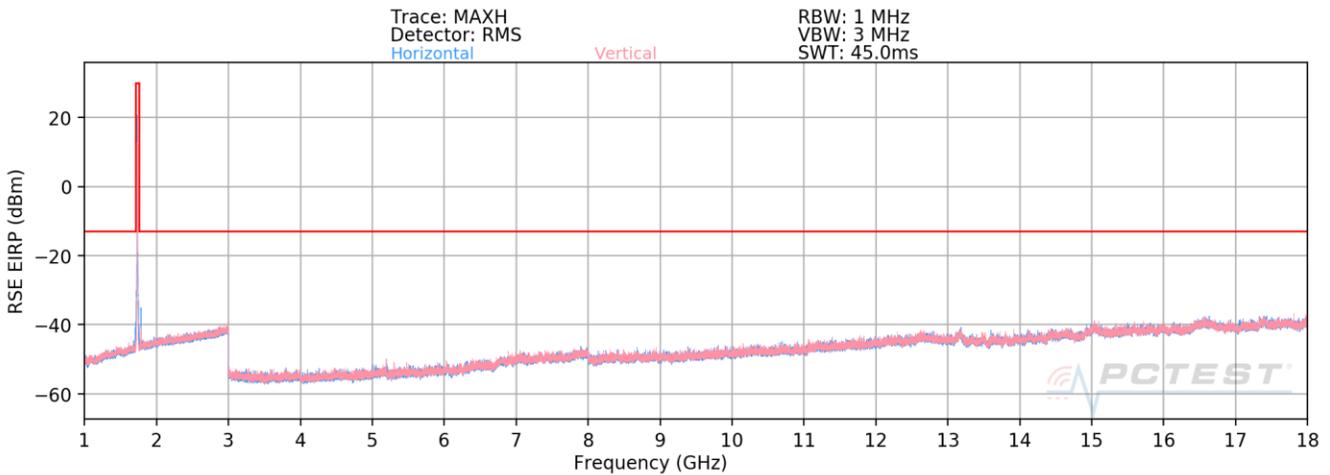
**Table 7-38. Radiated Spurious Data (NR Band n12 – B2)**

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: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset	Page 253 of 276	

# WCDMA AWS



**Plot 7-414. Radiated Spurious Plot (WCDMA AWS) – Open**



**Plot 7-415. Radiated Spurious Plot (WCDMA AWS) – Closed**

<b>Mode:</b>	WCDMA RMC
<b>Channel:</b>	1312
<b>Frequency (MHz):</b>	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	H	207	122	-74.44	5.41	37.97	-57.29	-13.00	-44.29
5137.2	H	101	46	-70.95	7.71	43.76	-51.50	-13.00	-38.50
6849.6	H	-	-	-80.74	11.23	37.49	-57.77	-13.00	-44.77
8562.0	H	-	-	-81.22	12.92	38.70	-56.56	-13.00	-43.56

**Table 7-39. Radiated Spurious Data (WCDMA AWS – Low Channel)**

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 254 of 276	

Mode:	WCDMA RMC
Channel:	1413
Frequency (MHz):	1732.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.2	H	102	128	-75.42	5.59	37.17	-58.08	-13.00	-45.08
5197.8	H	254	53	-72.47	7.09	41.62	-53.63	-13.00	-40.63
6930.4	H	-	-	-80.49	11.25	37.76	-57.49	-13.00	-44.49
8663.0	H	-	-	-81.13	13.37	39.24	-56.02	-13.00	-43.02

Table 7-40. Radiated Spurious Data (WCDMA AWS – Mid Channel)

Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.2	H	169	125	-75.70	4.92	36.22	-59.03	-13.00	-46.03
5257.8	H	267	62	-74.48	7.26	39.78	-55.48	-13.00	-42.48
7010.4	H	-	-	-80.01	11.21	38.20	-57.06	-13.00	-44.06
8763.0	H	-	-	-81.37	13.26	38.89	-56.37	-13.00	-43.37

Table 7-41. Radiated Spurious Data (WCDMA AWS – High Channel)

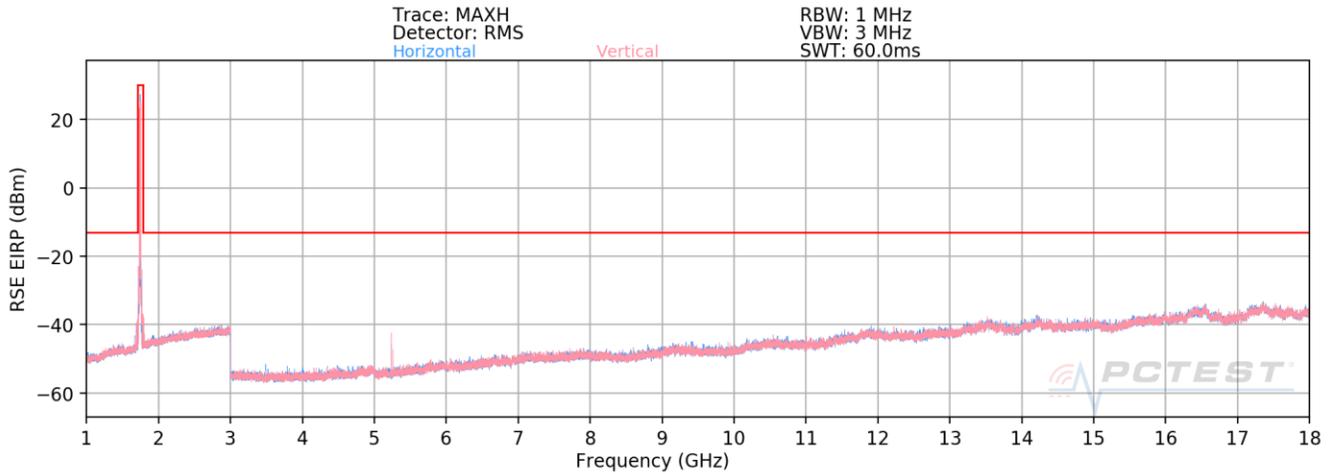
Mode:	WCDMA RMC
Channel:	1312
Frequency (MHz):	1712.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.8	H	-	-	-72.00	1.93	36.93	-58.32	-13.00	-45.32
5137.2	H	-	-	-77.01	4.72	34.71	-60.55	-13.00	-47.55
6849.6	H	-	-	-79.05	8.19	36.14	-59.12	-13.00	-46.12
8562.0	H	-	-	-79.92	10.66	37.74	-57.52	-13.00	-44.52

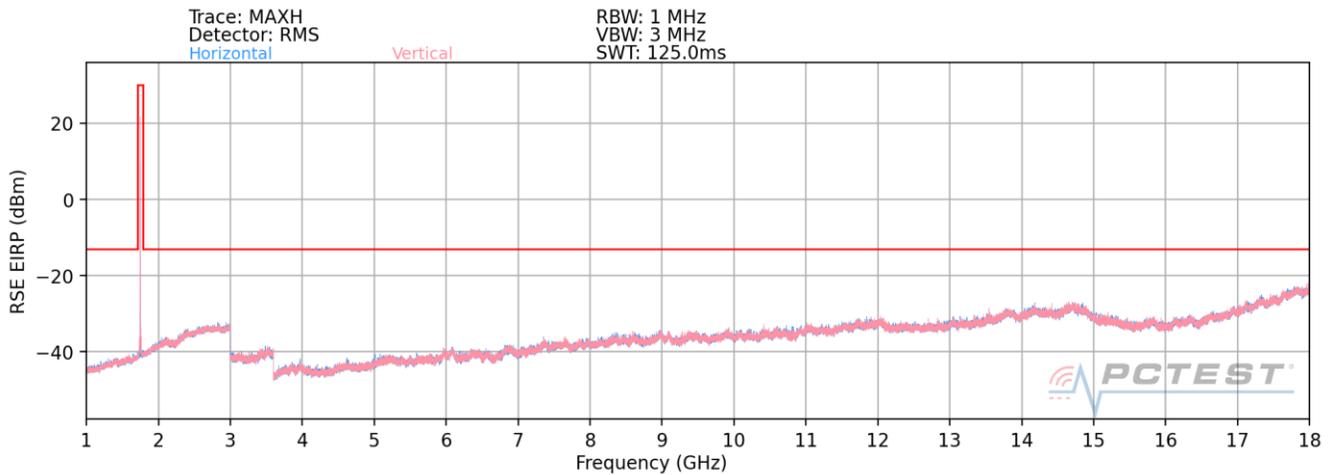
Table 7-42. Radiated Spurious Data (WCDMA AWS – Low Channel) with WCP

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 255 of 276

# LTE Band 66/4



**Plot 7-416. Radiated Spurious Plot (LTE Band 66/4) – Open**



**Plot 7-417. Radiated Spurious Plot (LTE Band 66/4) - Closed**

<b>Bandwidth (MHz):</b>	20
<b>Frequency (MHz):</b>	1720.0
<b>RB / Offset:</b>	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]
3440.0	V	291	172	-69.21	7.79	45.58	-49.68	-13.00	-36.68
5160.0	V	222	301	-63.01	10.62	54.61	-40.65	-13.00	-27.65
6880.0	V	-	-	-69.01	14.42	52.41	-42.85	-13.00	-29.85
8600.0	V	-	-	-70.12	17.90	54.78	-40.48	-13.00	-27.48

**Table 7-43. Radiated Spurious Data (LTE Band 66/4 – Low Channel)**

<b>FCC ID:</b> 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> 1M2104020031-04.A3L	<b>Test Dates:</b> 3/26 – 06/10/2021	<b>EUT Type:</b> Portable Handset		Page 256 of 276

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
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]
3490.0	V	400	166	-68.14	7.63	46.49	-48.77	-13.00	-35.77
5235.0	V	282	339	-60.52	10.39	56.87	-38.39	-13.00	-25.39
6980.0	V	-	-	-68.73	14.54	52.81	-42.45	-13.00	-29.45
8725.0	V	-	-	-70.01	17.61	54.60	-40.66	-13.00	-27.66

Table 7-44. Radiated Spurious Data (LTE Band 66/4 – Mid Channel)

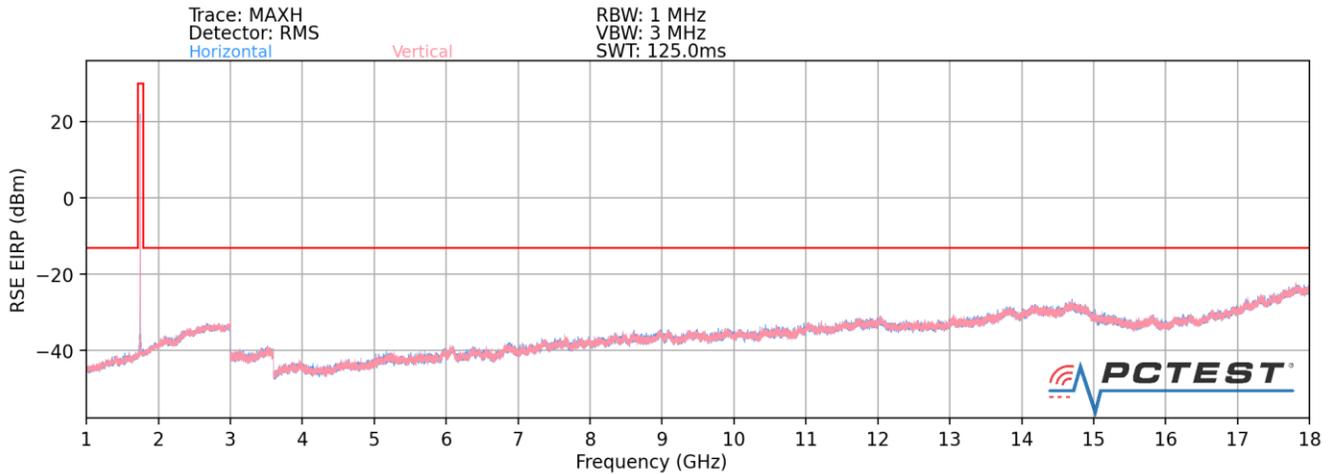
Bandwidth (MHz):	20
Frequency (MHz):	1770.0
RB / Offset:	1 / 50

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]
3540.00	V	230	307	-66.93	8.04	48.11	-47.14	-13.00	-34.14
5310.00	V	263	341	-65.18	11.38	53.20	-42.06	-13.00	-29.06
7080.00	V	-	-	-72.01	14.82	49.81	-45.44	-13.00	-32.44
8850.00	V	-	-	-70.11	17.23	54.12	-41.14	-13.00	-28.14

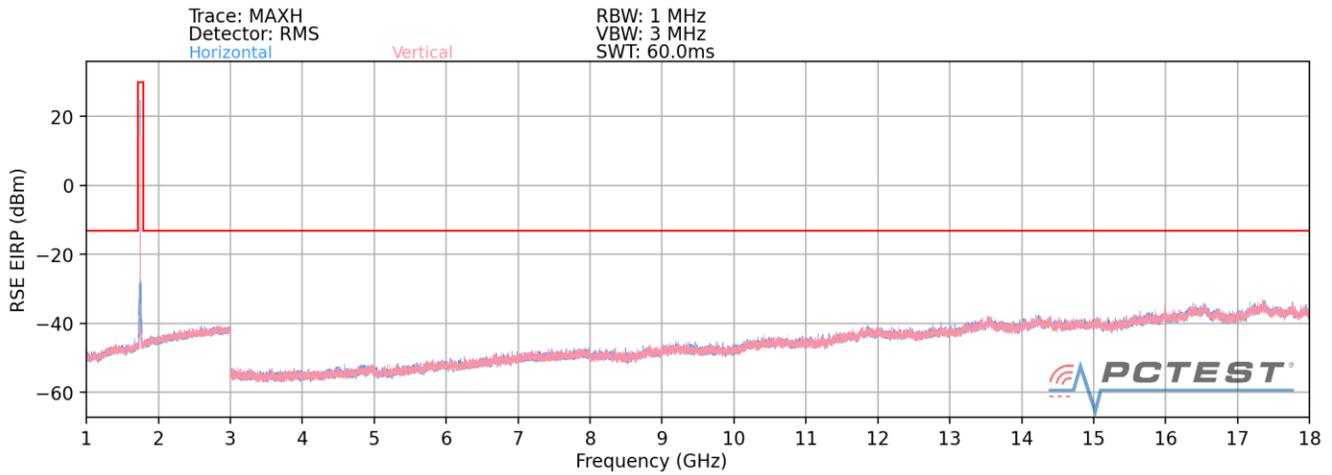
Table 7-45. Radiated Spurious Data (LTE Band 66/4 – High Channel)

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 257 of 276

### NR Band n66 – AntB



**Plot 7-418. Radiated Spurious Plot (NR Band n66 – AntB) – Open**



**Plot 7-419. Radiated Spurious Plot (NR Band n66 – AntB) – Closed**

<b>Bandwidth (MHz):</b>	40
<b>Frequency (MHz):</b>	1730.0
<b>RB / Offset:</b>	1/108
<b>Mode:</b>	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]
3460.0	V	116	35	-70.50	1.27	37.77	-57.49	-13.00	-44.49
5190.0	V	242	9	-74.83	5.14	37.31	-57.94	-13.00	-44.94
6920.0	V	-	-	-78.23	7.77	36.54	-58.72	-13.00	-45.72
8650.0	V	-	-	-78.79	11.11	39.32	-55.94	-13.00	-42.94

**Table 7-46. Radiated Spurious Data (NR Band n66 – Low Channel – AntB)**

<b>FCC ID:</b> A3LSMF926U	<b>PCTEST</b> Proud to be part of element	<b>PART 27 MEASUREMENT REPORT</b>	<b>SAMSUNG</b>	<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2104020031-04.A3L	<b>Test Dates:</b> 3/26 – 06/10/2021	<b>EUT Type:</b> Portable Handset	Page 258 of 276	

Bandwidth (MHz):	40
Frequency (MHz):	1745.0
RB / Offset:	1/108
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]
3490.0	V	114	38	-71.99	1.27	36.28	-58.97	-13.00	-45.97
5235.0	V	367	13	-70.16	4.93	41.77	-53.48	-13.00	-40.48
6980.0	V	-	-	-77.72	6.82	36.10	-59.16	-13.00	-46.16
8725.0	V	341	354	-74.98	10.67	42.69	-52.57	-13.00	-39.57
10470.0	V	275	311	-74.85	11.92	44.07	-51.19	-13.00	-38.19
12215.0	V	-	-	-78.92	13.65	41.73	-53.53	-13.00	-40.53
13960.0	V	-	-	-79.03	16.16	44.13	-51.13	-13.00	-38.13

**Table 7-47. Radiated Spurious Data (NR Band n66 – Mid Channel – AntB)**

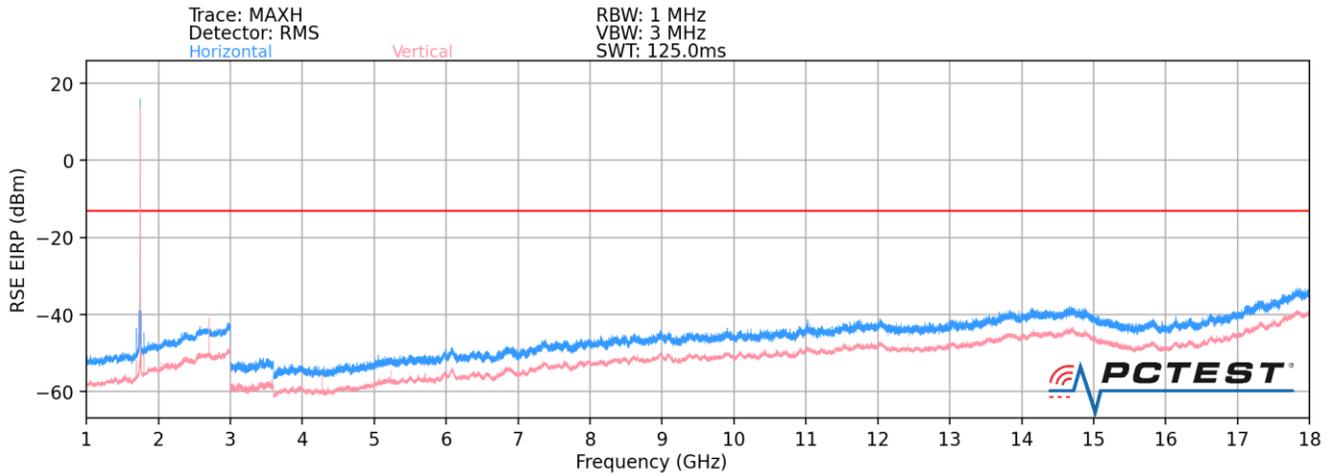
Bandwidth (MHz):	40
Frequency (MHz):	1760.0
RB / Offset:	1/108
Mode:	Standalone

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]
3520.0	V	114	28	-72.62	1.74	36.12	-59.14	-13.00	-46.14
5280.0	V	364	173	-76.49	4.69	35.20	-60.06	-13.00	-47.06
7040.0	V	-	-	-77.91	6.93	36.02	-59.24	-13.00	-46.24
8800.0	V	-	-	-78.39	10.75	39.36	-55.90	-13.00	-42.90

**Table 7-48. Radiated Spurious Data (NR Band n66 – High Channel – 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 259 of 276	

### NR Band n66 Ant B – B13



**Plot 7-420. Radiated Spurious Plot (NR Band n66 – B13)**

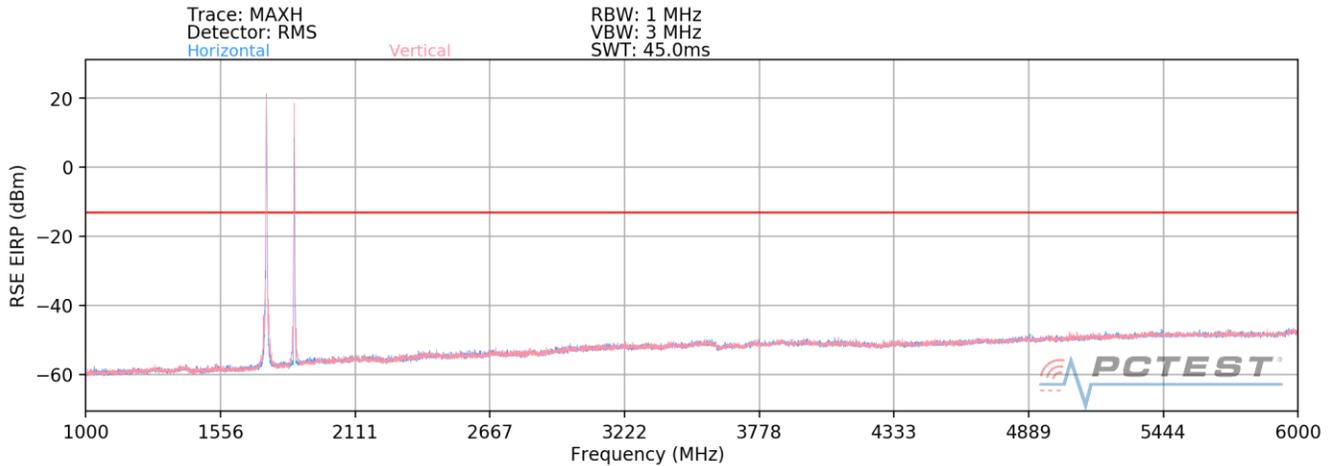
<b>Bandwidth (MHz):</b>	20 / 10
<b>Frequency (MHz):</b>	1745 / 782
<b>RB / Offset:</b>	1 / 53 & 1 / 26
<b>Mode:</b>	EN-DC
<b>Anchor Band:</b>	13

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]
1144.0	H	-	-	-68.69	6.67	44.98	-50.28	-13.00	-37.28
2107.0	H	180	253	-68.63	12.98	51.35	-43.90	-13.00	-30.90
2708.0	H	113	248	-68.35	14.86	53.51	-41.75	-13.00	-28.75
3070.0	H	-	-	-68.52	16.14	54.62	-40.64	-13.00	-27.64

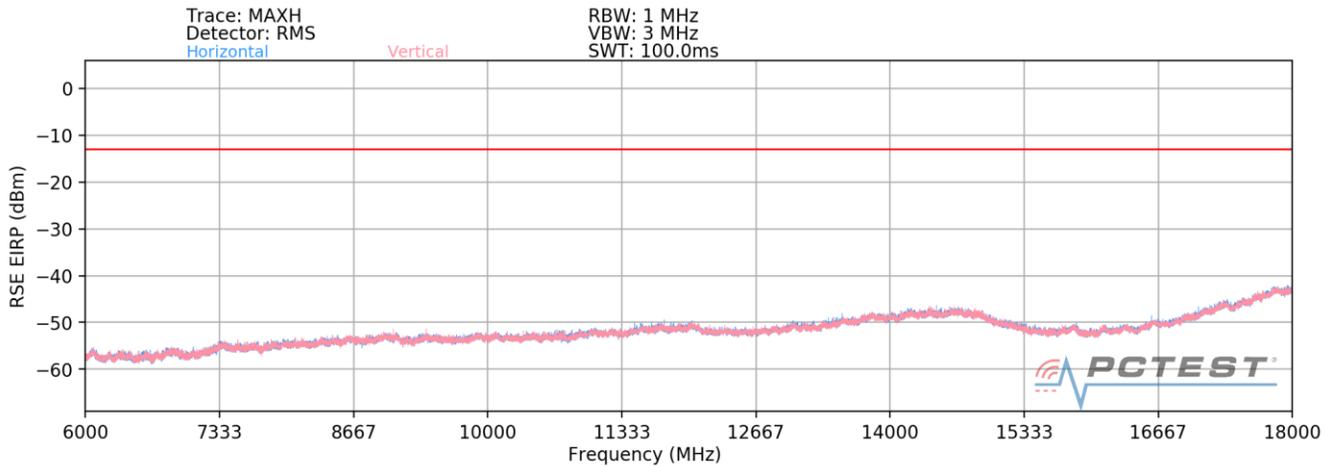
**Table 7-49. Radiated Spurious Data (NR Band n66 – B13)**

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: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 260 of 276

## NR Band n66 – B2



**Plot 7-421. Radiated Spurious Plot (NR Band n66 – B2)**



**Plot 7-422. Radiated Spurious Plot (NR Band n66 – B2)**

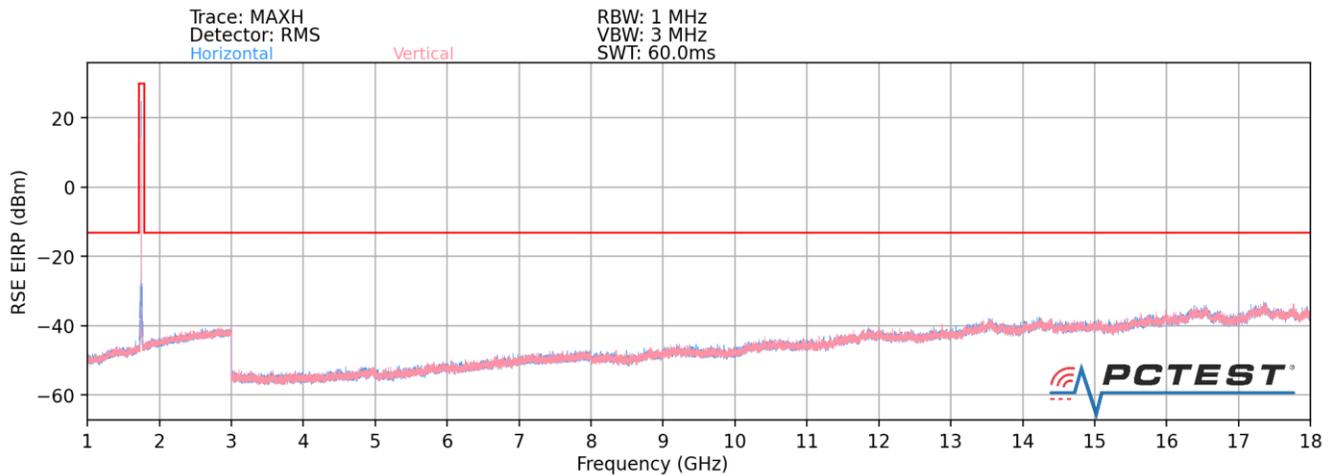
Bandwidth (MHz):	20 / 20
Frequency (MHz):	1745 & 1880
RB / Offset:	1 / 53 & 1 / 50
Mode:	EN-DC
Anchor Band:	2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1885.0	H	-	-	-48.49	-3.20	55.31	-39.95	-13.00	-26.95
3700.0	H	-	-	-49.89	1.49	58.60	-36.65	-13.00	-23.65
5375.0	H	-	-	-48.50	5.18	63.68	-31.58	-13.00	-18.58
5515.0	H	-	-	-48.57	6.09	64.52	-30.74	-13.00	-17.74

**Table 7-50. Radiated Spurious Data (NR Band n66 – B2)**

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 261 of 276

## NR Band n66 – AntE



Plot 7-423. Radiated Spurious Plot (NR Band n66 – AntE)

Bandwidth (MHz):	20
Frequency (MHz):	1720.0
RB / Offset:	1 / 50
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]
3440.0	H	214	66	-52.34	5.40	60.06	-35.20	-13.00	-22.20
5160.0	H	-	-	-57.69	7.70	57.01	-38.24	-13.00	-25.24
6880.0	H	-	-	-66.01	11.39	52.38	-42.87	-13.00	-29.87
8600.0	H	-	-	-63.98	13.33	56.35	-38.90	-13.00	-25.90

Table 7-51. Radiated Spurious Data (NR Band n66 – Low Channel – AntE)

Bandwidth (MHz):	20
Frequency (MHz):	1745.0
RB / Offset:	1 / 50
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]
3490.0	H	173	54	-51.64	5.36	60.72	-34.54	-13.00	-21.54
5235.0	H	-	-	-58.42	7.30	55.88	-39.37	-13.00	-26.37
6980.0	H	-	-	-65.14	11.24	53.10	-42.16	-13.00	-29.16
8725.0	H	-	-	-64.58	13.67	56.09	-39.17	-13.00	-26.17

Table 7-52. Radiated Spurious Data (NR Band n66 – Mid Channel – 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 262 of 276

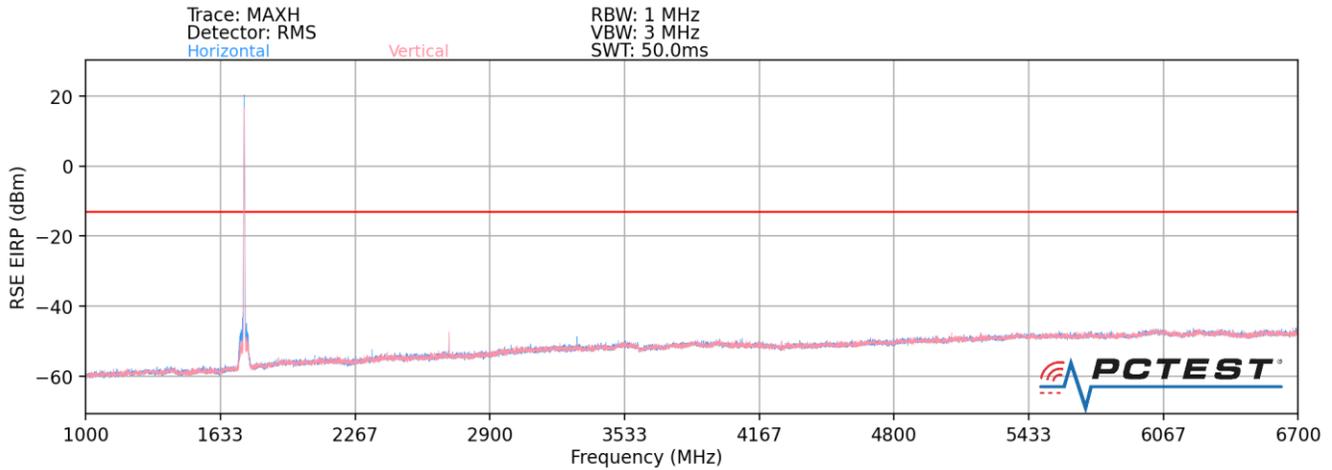
Bandwidth (MHz):	20
Frequency (MHz):	1900.0
RB / Offset:	1 / 50
Mode:	Standalone

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]
3800.0	H	169	66	-52.01	6.45	61.44	-33.82	-13.00	-20.82
5700.0	H	-	-	-58.60	7.98	56.38	-38.87	-13.00	-25.87
7600.0	H	-	-	-64.15	13.07	55.92	-39.34	-13.00	-26.34
9500.0	H	-	-	-65.09	15.19	57.10	-38.16	-13.00	-25.16

Table 7-53. Radiated Spurious Data (NR Band n66 – High Channel – 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 263 of 276	

### NR Band n66 AntE – B13



**Plot 7-424. Radiated Spurious Plot (NR Band n66 – B13)**

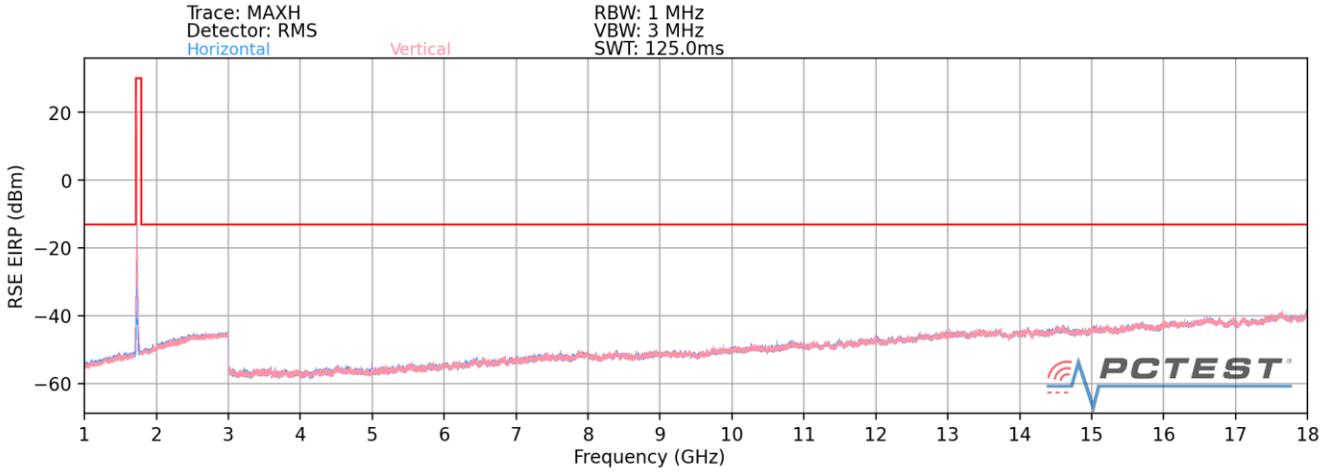
<b>Bandwidth (MHz):</b>	10MHz / 40MHz
<b>Frequency (MHz):</b>	782 / 1745
<b>RB / Offset:</b>	1 / 25 & 1 / 108
<b>Mode:</b>	EN-DC
<b>Anchor Band:</b>	LTE Band 13

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]
1144.0	H	-	-	-75.50	-6.20	25.30	-69.96	-13.00	-56.96
2107.0	H	-	-	-75.93	-2.79	28.28	-66.98	-13.00	-53.98
2413.9	H	147	192	-75.71	-2.15	29.14	-66.12	-13.00	-53.12
2708.0	H	250	2	-73.51	-1.25	32.24	-63.02	-13.00	-50.02
3309.1	H	120	174	-74.60	0.59	32.99	-62.27	-13.00	-49.27
8848.0	H	-	-	-78.38	11.15	39.77	-55.48	-13.00	-42.48
10467.0	H	161	20	-75.35	12.44	44.09	-51.17	-13.00	-38.17
10774.0	H	-	-	-81.44	12.41	37.97	-57.29	-13.00	-44.29

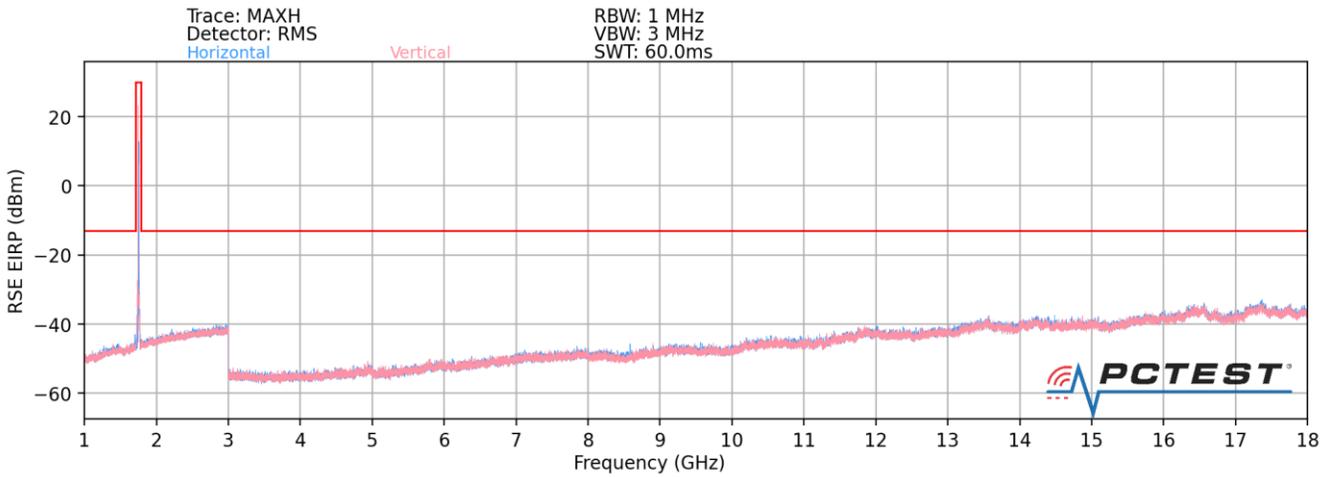
**Table 7-54. Radiated Spurious Data (NR Band n66 – B13)**

<b>FCC ID:</b> 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> 1M2104020031-04.A3L	<b>Test Dates:</b> 3/26 – 06/10/2021	<b>EUT Type:</b> Portable Handset	Page 264 of 276	

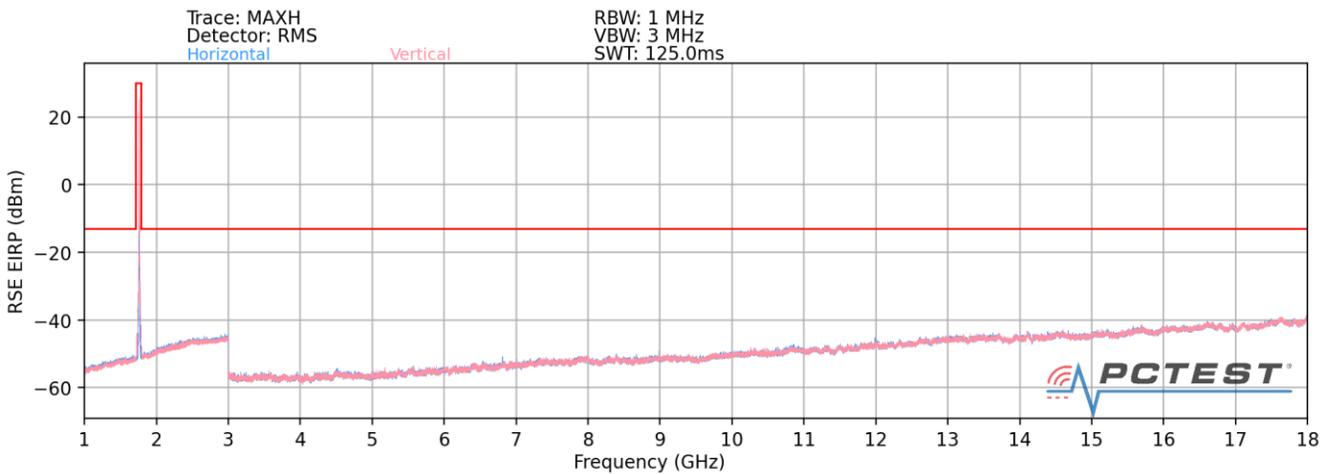
## Uplink CA LTE Band 66B/C



**Plot 7-425. Radiated Spurious Plot (ULCA LTE Band 66 – Low Channel)**



**Plot 7-426. Radiated Spurious Plot (ULCA LTE Band 66 – Mid Channel)**



**Plot 7-427. Radiated Spurious Plot (ULCA LTE Band 66 – High Channel)**

FCC ID: A3LSMF926U	PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 265 of 276

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1720.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1739.8
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]
3440.0	H	-	-	-80.01	7.79	34.78	-60.48	-13.00	-47.48
5160.0	H	-	-	-81.79	10.62	35.83	-59.43	-13.00	-46.43
6880.0	H	-	-	-82.56	14.42	38.86	-56.40	-13.00	-43.40
8600.0	H	-	-	-84.30	17.90	40.60	-54.66	-13.00	-41.66

**7-55. Radiated Spurious Data (ULCA LTE66 – Low Channel)**

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
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]
3490.0	H	145	133	-79.37	7.63	35.26	-60.00	-13.00	-47.00
5235.0	H	-	-	-81.50	10.39	35.89	-59.37	-13.00	-46.37
6980.0	H	-	-	-82.49	14.54	39.05	-56.21	-13.00	-43.21
8725.0	H	-	-	-83.14	17.61	41.47	-53.79	-13.00	-40.79

**Table 7-56. Radiated Spurious Data (ULCA LTE66 – Mid Channel)**

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
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]
3540.0	H	101	133	-79.07	8.04	35.97	-59.28	-13.00	-46.28
5310.0	H	-	-	-81.60	11.38	36.78	-58.48	-13.00	-45.48
7080.0	H	-	-	-82.27	14.82	39.55	-55.70	-13.00	-42.70
8850.0	H	-	-	-83.35	17.23	40.88	-54.38	-13.00	-41.38

**Table 7-57. Radiated Spurious Data (ULCA LTE66 – High Channel)**

FCC ID: A3LSMF926U	 PCTEST Proud to be part of element	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset	Page 266 of 276	

## 7.10 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.

***For Part 27, 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

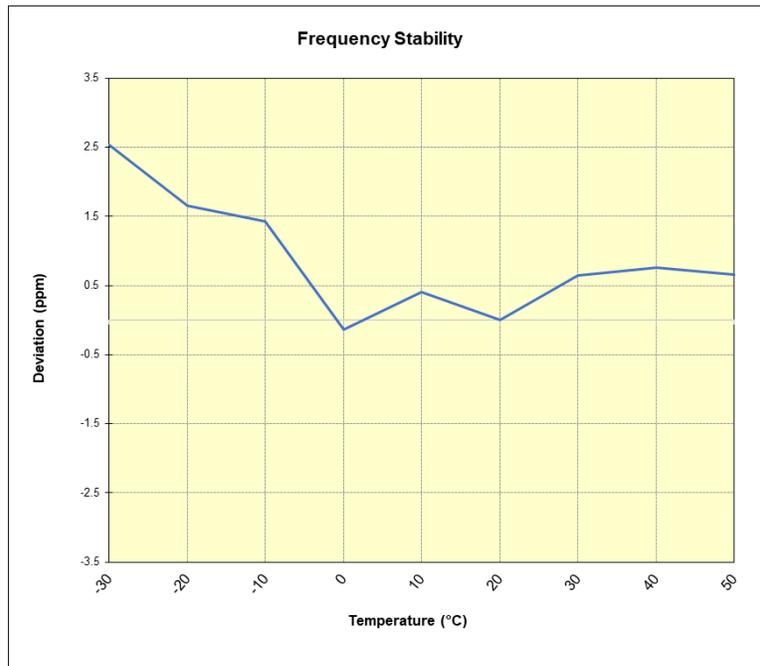
None

FCC ID: 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 267 of 276

## Frequency Stability / Temperature Variation

LTE Band 71					
		Operating Frequency (Hz):		680,500,000	
		Ref. Voltage (VDC):		4.36	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	680,500,977	1,729	0.0002541
		- 20	680,500,378	1,130	0.0001661
		- 10	680,500,222	974	0.0001431
		0	680,499,156	-92	-0.0000135
		+ 10	680,499,522	274	0.0000403
		+ 20 (Ref)	680,499,248	0	0.0000000
		+ 30	680,499,686	438	0.0000644
		+ 40	680,499,768	520	0.0000764
Battery Endpoint	2.46	+ 20	680,499,522	274	0.0000403

Table 7-58. LTE Band 71 Frequency Stability Data



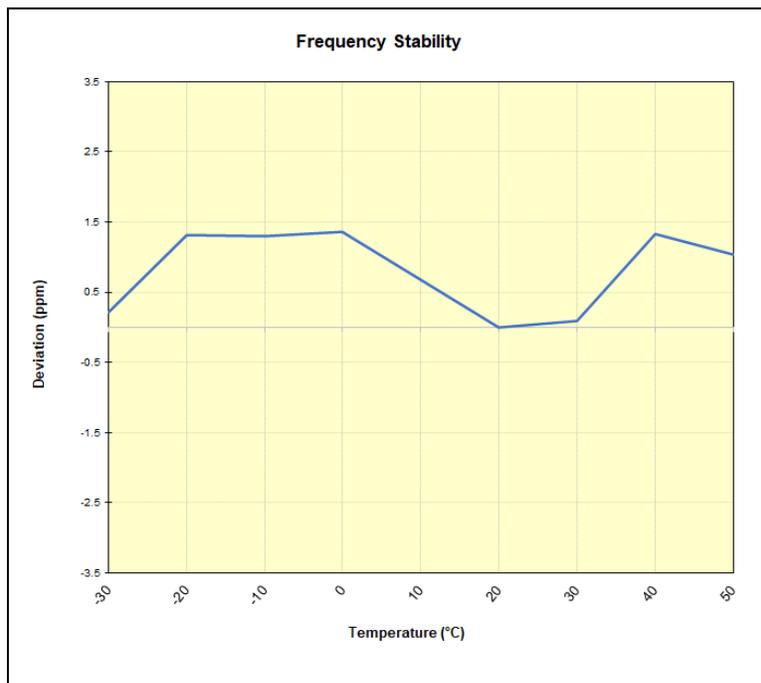
Plot 7-428. LTE Band 71 Frequency Stability Chart

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 268 of 276

## Frequency Stability / Temperature Variation

LTE Band 12					
Operating Frequency (Hz):		707,500,000			
Ref. Voltage (VDC):		4.36			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	707,499,159	158	0.0000223
		- 20	707,499,927	926	0.0001309
		- 10	707,499,921	920	0.0001300
		0	707,499,962	961	0.0001358
		+ 10	707,499,484	483	0.0000683
		+ 20 (Ref)	707,499,001	0	0.0000000
		+ 30	707,499,067	66	0.0000093
		+ 40	707,499,942	941	0.0001330
Battery Endpoint	2.46	+ 20	707,499,572	571	0.0000807

Table 7-59. LTE Band 12 Frequency Stability Data



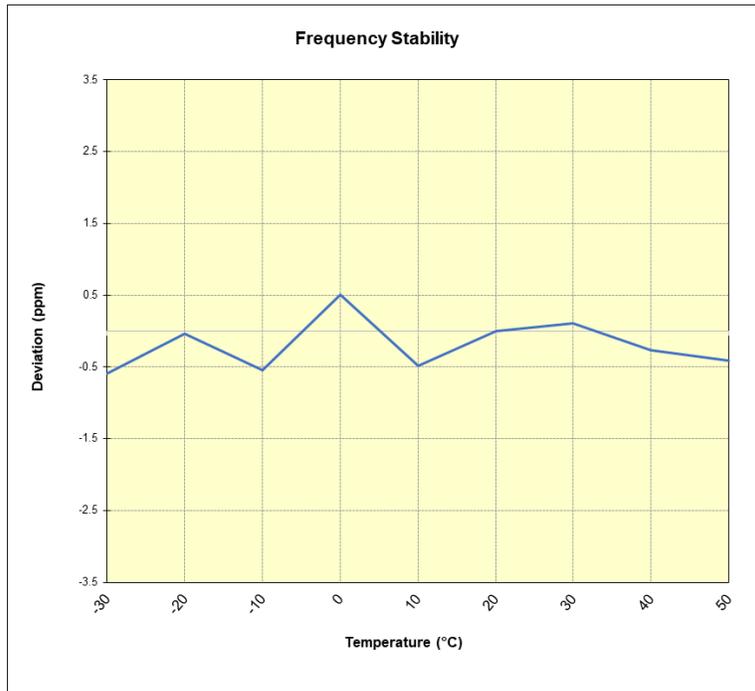
Plot 7-429. LTE Band 12 Frequency Stability Chart

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 269 of 276

## Frequency Stability / Temperature Variation

LTE Band 13					
Operating Frequency (Hz):		782,000,000			
Ref. Voltage (VDC):		4.36			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	782,049,092	-464	-0.0000593
		- 20	782,049,532	-24	-0.0000031
		- 10	782,049,128	-428	-0.0000547
		0	782,049,948	392	0.0000501
		+ 10	782,049,180	-376	-0.0000481
		+ 20 (Ref)	782,049,556	0	0.0000000
		+ 30	782,049,640	84	0.0000107
		+ 40	782,049,348	-208	-0.0000266
		+ 50	782,049,238	-318	-0.0000407
Battery Endpoint	2.46	+ 20	782,049,441	-115	-0.0000147

Table 7-60. LTE Band 13 Frequency Stability Data



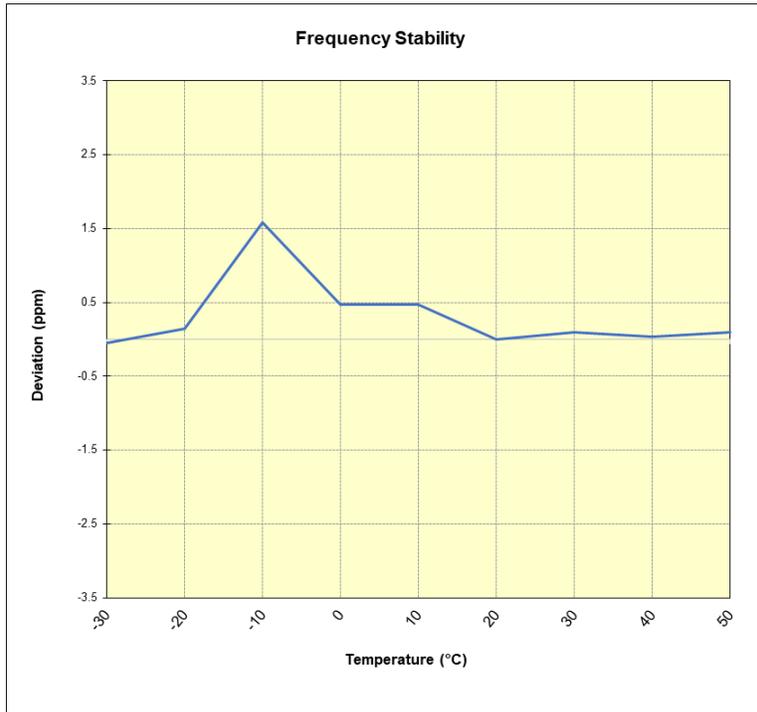
Plot 7-430. LTE Band 13 Frequency Stability Chart

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 270 of 276	

## Frequency Stability / Temperature Variation

NR Band n71					
Operating Frequency (Hz):		680,500,000			
Ref. Voltage (VDC):		4.36			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	680,500,112	-33	-0.0000048
		- 20	680,500,245	100	0.0000147
		- 10	680,501,222	1,077	0.0001583
		0	680,500,468	323	0.0000475
		+ 10	680,500,462	317	0.0000466
		+ 20 (Ref)	680,500,145	0	0.0000000
		+ 30	680,500,214	69	0.0000101
		+ 40	680,500,169	24	0.0000035
		+ 50	680,500,211	66	0.0000097
Battery Endpoint	2.46	+ 20	680,499,690	-455	-0.0000669

Table 7-61. NR Band n71 Frequency Stability Data



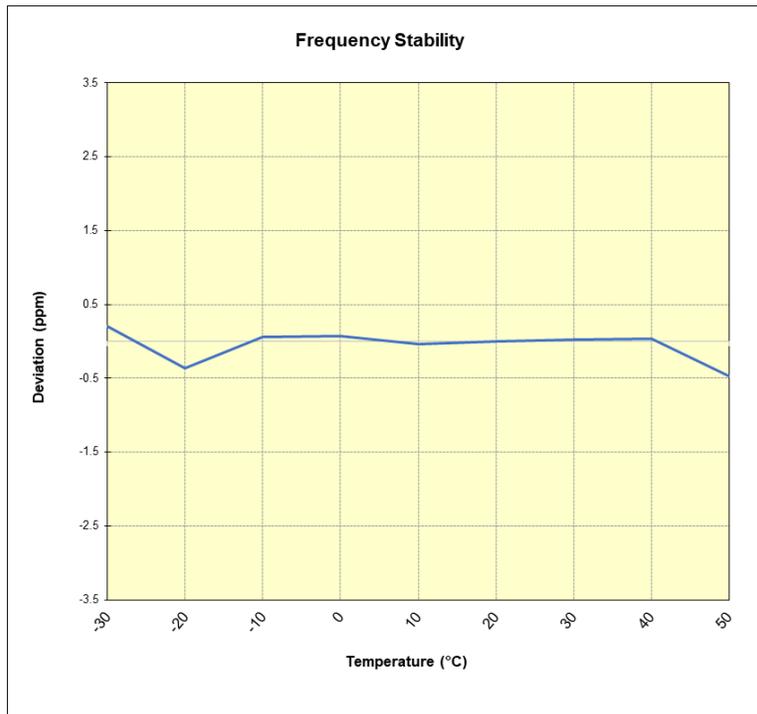
Plot 7-431. NR Band n71 Frequency Stability Chart

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 271 of 276

## Frequency Stability / Temperature Variation

NR Band n12					
Operating Frequency (Hz):		707,500,000			
Ref. Voltage (VDC):		4.36			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	707,506,540	141	0.0000199
		- 20	707,506,141	-258	-0.0000365
		- 10	707,506,441	42	0.0000059
		0	707,506,451	52	0.0000073
		+ 10	707,506,372	-27	-0.0000038
		+ 20 (Ref)	707,506,399	0	0.0000000
		+ 30	707,506,416	17	0.0000024
		+ 40	707,506,421	22	0.0000031
		+ 50	707,506,065	-334	-0.0000472
Battery Endpoint	2.46	+ 20	707,506,401	2	0.0000003

Table 7-62. NR Band n12 Frequency Stability Data



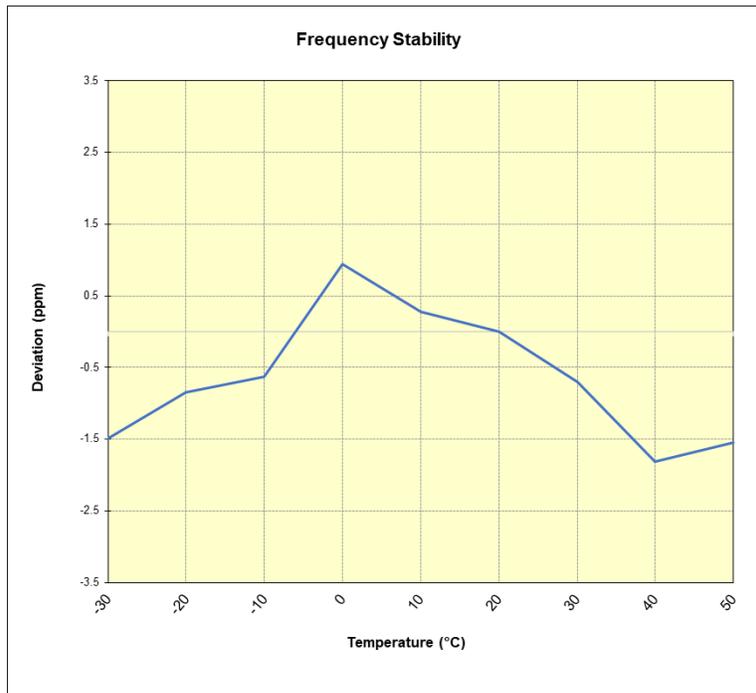
Plot 7-432. NR Band n12 Frequency Stability Chart

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 272 of 276

## Frequency Stability / Temperature Variation

WCDMA AWS					
Operating Frequency (Hz):		1,732,600,000			
Ref. Voltage (VDC):		4.36			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	1,732,615,539	-2,568	-0.0001482
		- 20	1,732,616,649	-1,458	-0.0000842
		- 10	1,732,617,015	-1,093	-0.0000631
		0	1,732,619,739	1,632	0.0000942
		+ 10	1,732,618,596	488	0.0000282
		+ 20 (Ref)	1,732,618,107	0	0.0000000
		+ 30	1,732,616,897	-1,210	-0.0000698
		+ 40	1,732,614,969	-3,138	-0.0001811
		+ 50	1,732,615,433	-2,675	-0.0001544
Battery Endpoint	2.46	+ 20	1,732,615,555	-2,552	-0.0001473

**Table 7-63. WCDMA AWS Frequency Stability Data**



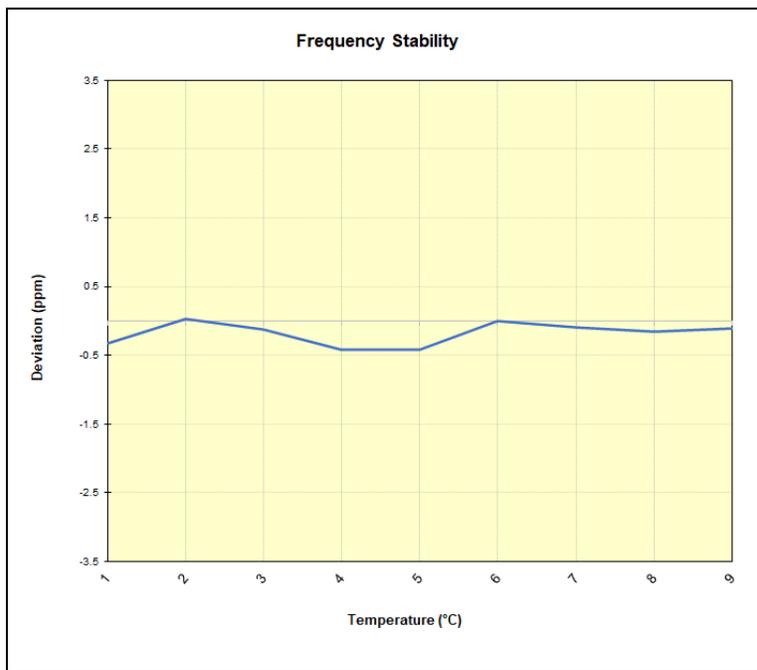
**Plot 7-433. WCDMA AWS Frequency Stability Chart**

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: 1M2104020031-04.A3L	Test Dates: 3/26 – 06/10/2021	EUT Type: Portable Handset		Page 273 of 276

## Frequency Stability / Temperature Variation

LTE Band 66/4					
Operating Frequency (Hz):		1,745,000,000			
Ref. Voltage (VDC):		4.36			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	1,745,433,326	-556	-0.0000319
		- 20	1,745,433,926	44	0.0000025
		- 10	1,745,433,669	-213	-0.0000122
		0	1,745,433,164	-718	-0.0000411
		+ 10	1,745,433,162	-720	-0.0000413
		+ 20 (Ref)	1,745,433,882	0	0.0000000
		+ 30	1,745,433,732	-150	-0.0000086
		+ 40	1,745,433,612	-270	-0.0000155
Battery Endpoint	2.46	+ 20	1,745,433,421	-461	-0.0000264

Table 7-64. LTE Band 66/4 Frequency Stability Data



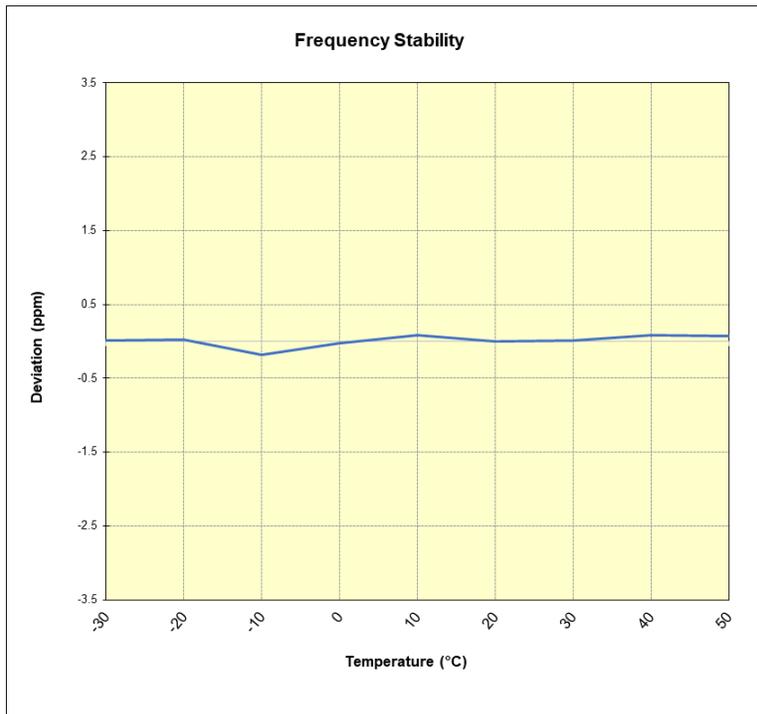
Plot 7-434. LTE Band 66/4 Frequency Stability Chart

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 274 of 276

## Frequency Stability / Temperature Variation

NR Band n66					
Operating Frequency (Hz):		1,745,000,000			
Ref. Voltage (VDC):		4.36			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.36	- 30	1,745,000,145	24	0.000014
		- 20	1,745,000,163	42	0.000024
		- 10	1,744,999,810	-311	-0.0000178
		0	1,745,000,080	-41	-0.0000023
		+ 10	1,745,000,272	151	0.0000087
		+ 20 (Ref)	1,745,000,121	0	0.0000000
		+ 30	1,745,000,147	26	0.0000015
		+ 40	1,745,000,269	148	0.0000085
Battery Endpoint	2.46	+ 20	1,745,000,662	541	0.0000310

Table 7-65. NR Band n66 Frequency Stability Data



Plot 7-435. NR Band n66 Frequency Stability Chart

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 275 of 276

## 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.

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 276 of 276	