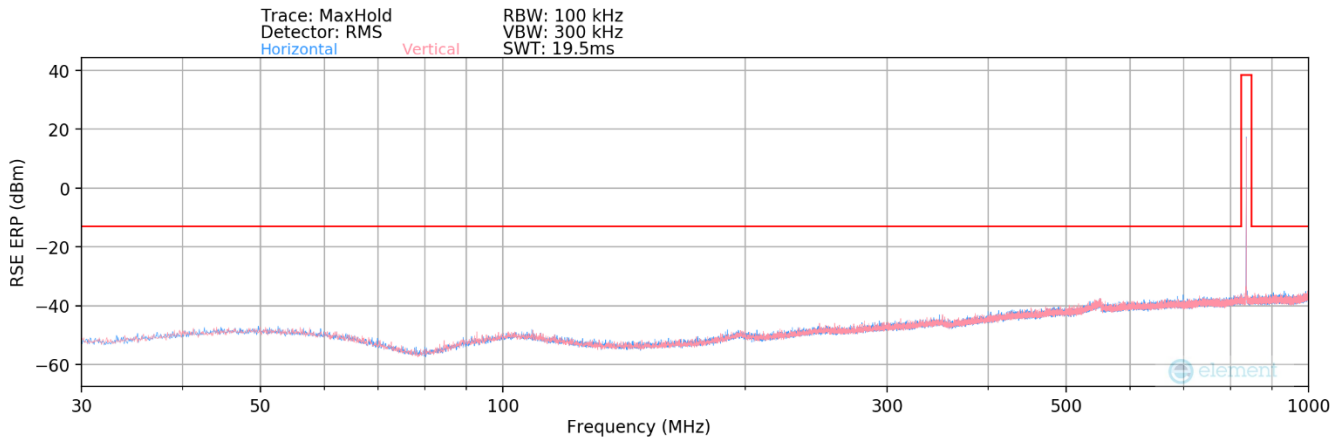
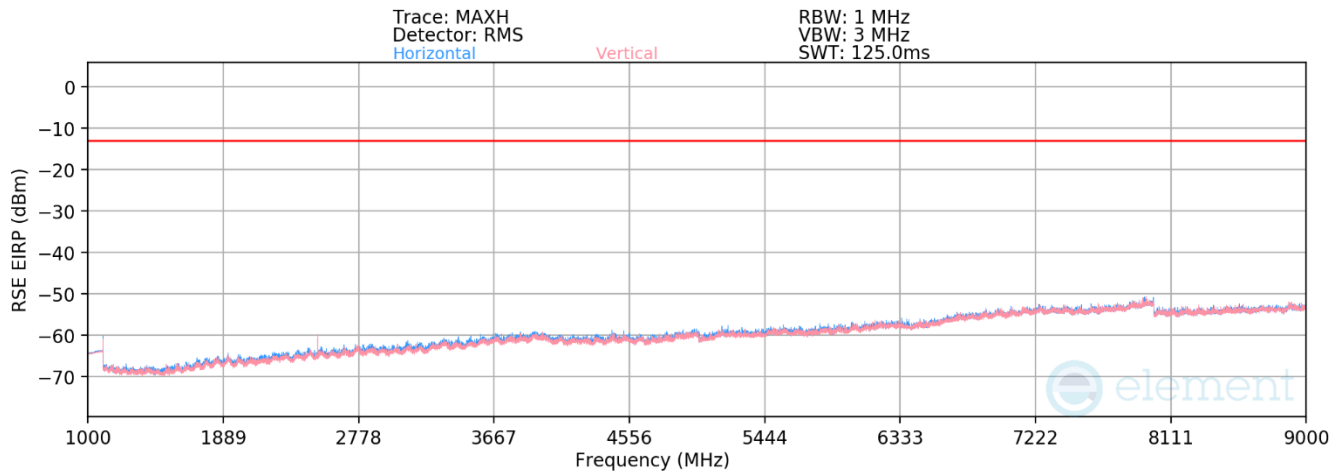


NR Band n26/5



Plot 7-102. Radiated Spurious Plot (NR Band n26/5 – Below 1GHz)



Plot 7-103. Radiated Spurious Plot (NR Band n26/5 – Above 1GHz)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1/53
Mode:	Stand Alone

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]
296.36	H	-	-	-80.67	14.65	40.98	-54.28	-13.00	-41.28
554.00	H	-	-	-79.29	19.85	47.56	-47.69	-13.00	-34.69
907.64	H	-	-	-81.39	25.13	50.74	-44.52	-13.00	-31.52

Table 7-19. Radiated Spurious Data (NR Band n26/5 – Below 1GHz)

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-01.A3L	Test Dates: 9/2/2022 - 11/4/2022	EUT Type: Portable Handset	Page 80 of 101



Bandwidth (MHz):	20
Frequency (MHz):	834
RB / Offset:	1 / 53
Mode:	Stand Alone

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]
1668.00	H	101	162	-75.11	-7.65	24.24	-71.02	-13.00	-58.02
2502.00	H	111	139	-74.30	-4.17	28.53	-66.73	-13.00	-53.73
3336.00	H	-	-	-76.77	-0.86	29.37	-65.89	-13.00	-52.89
4170.00	H	-	-	-77.89	0.56	29.67	-65.59	-13.00	-52.59
5004.00	H	-	-	-77.91	1.23	30.32	-64.93	-13.00	-51.93
5838.00	H	-	-	-78.83	4.15	32.32	-62.93	-13.00	-49.93

Table 7-20. Radiated Spurious Data (NR Band n26/5 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	836.5
RB / Offset:	1 / 53
Mode:	Stand Alone

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]
1673.00	H	-	-	-75.89	-7.63	23.48	-71.77	-13.00	-58.77
2509.50	H	104	146	-71.69	-4.17	31.14	-64.12	-13.00	-51.12
3346.00	H	-	-	-76.84	-0.95	29.21	-66.04	-13.00	-53.04
4182.50	H	-	-	-77.25	0.38	30.13	-65.12	-13.00	-52.12
5019.00	H	-	-	-77.88	1.28	30.40	-64.85	-13.00	-51.85
5855.50	H	-	-	-79.09	4.36	32.27	-62.98	-13.00	-49.98

Table 7-21. Radiated Spurious Data (NR Band n26/5 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	839
RB / Offset:	1 / 53
Mode:	Stand Alone

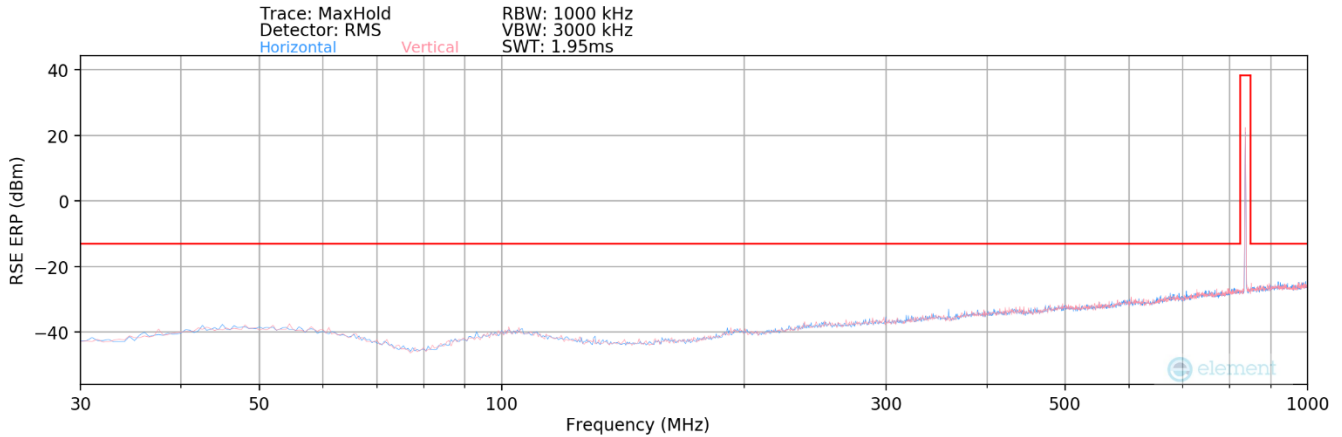
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1678.00	H	-	-	-76.16	-7.57	23.27	-71.99	-13.00	-58.99
2517.00	H	110	124	-74.53	-4.18	28.29	-66.97	-13.00	-53.97
3356.00	H	-	-	-77.01	-1.00	28.99	-66.27	-13.00	-53.27
4195.00	H	-	-	-77.28	0.26	29.98	-65.28	-13.00	-52.28
5034.00	H	-	-	-77.81	1.50	30.69	-64.57	-13.00	-51.57
5873.00	H	-	-	-79.27	4.29	32.02	-63.23	-13.00	-50.23

Table 7-22. Radiated Spurious Data (NR Band n26/5 – High Channel)

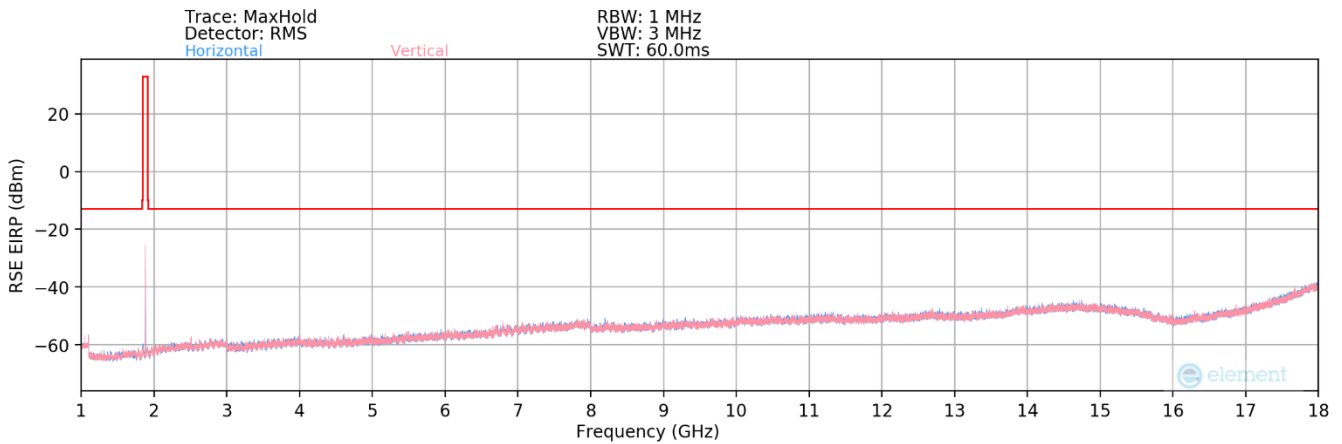
FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-01.A3L	Test Dates: 9/2/2022 - 11/4/2022	EUT Type: Portable Handset	Page 81 of 101



EN-DC NR n5– LTE Band 2 (Ant A)



Plot 7-104. Radiated Spurious Plot (NR n5 – Band 2 Ant A – Below 1GHz)



Plot 7-105. Radiated Spurious Plot (NR n5 – Band 2 Ant A – Above 1GHz)

Bandwidth (MHz):	20 / 20
Frequency (MHz):	836.5 / 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]
207.00	V	-	-	-72.58	11.97	46.39	-48.87	-13.00	-35.87
422.50	V	-	-	-71.29	17.77	53.48	-41.77	-13.00	-28.77
621.00	V	-	-	-73.22	20.99	54.77	-40.49	-13.00	-27.49

Table 23. Radiated Spurious Data (NR n5 – Band 2 Ant A – Below 1GHz)

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-01.A3L	Test Dates: 9/2/2022 - 11/4/2022	EUT Type: Portable Handset	Page 82 of 101



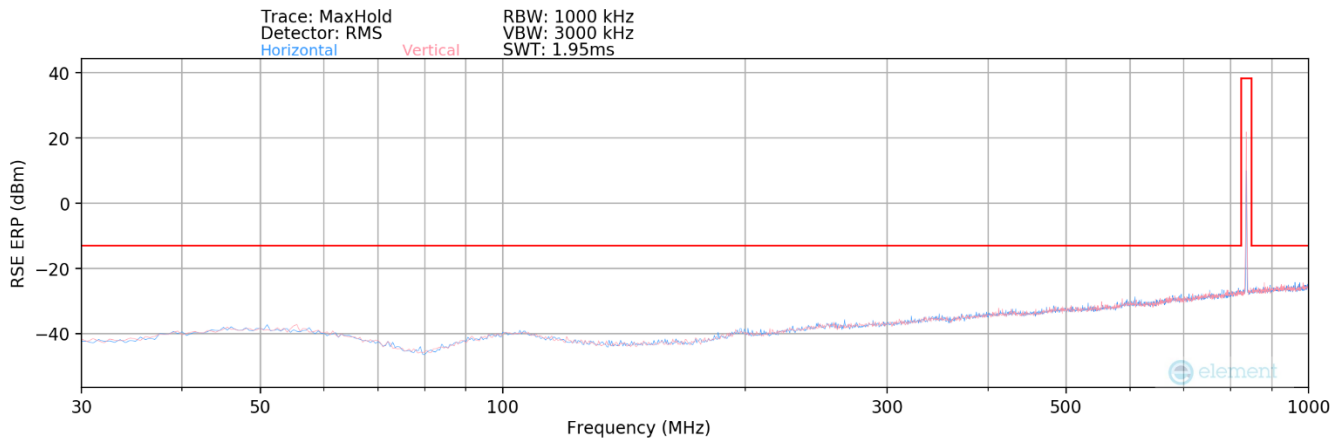
Bandwidth (MHz):	20 / 20
Frequency (MHz):	836.5 / 1880
RB / Offset:	1/53 / 1/50
Mode:	EN-DC
Anchor Band:	2

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]
1250.50	H	-	-	-74.57	-9.05	23.38	-71.87	-13.00	-58.87
1466.00	H	-	-	-74.33	-9.19	23.48	-71.78	-13.00	-58.78
2923.50	H	374	0	-73.65	-3.56	29.79	-65.47	-13.00	-52.47
3553.00	H	387	5	-76.66	-0.88	29.46	-65.80	-13.00	-52.80
4596.50	H	400	345	-76.21	0.36	31.15	-64.11	-13.00	-51.11

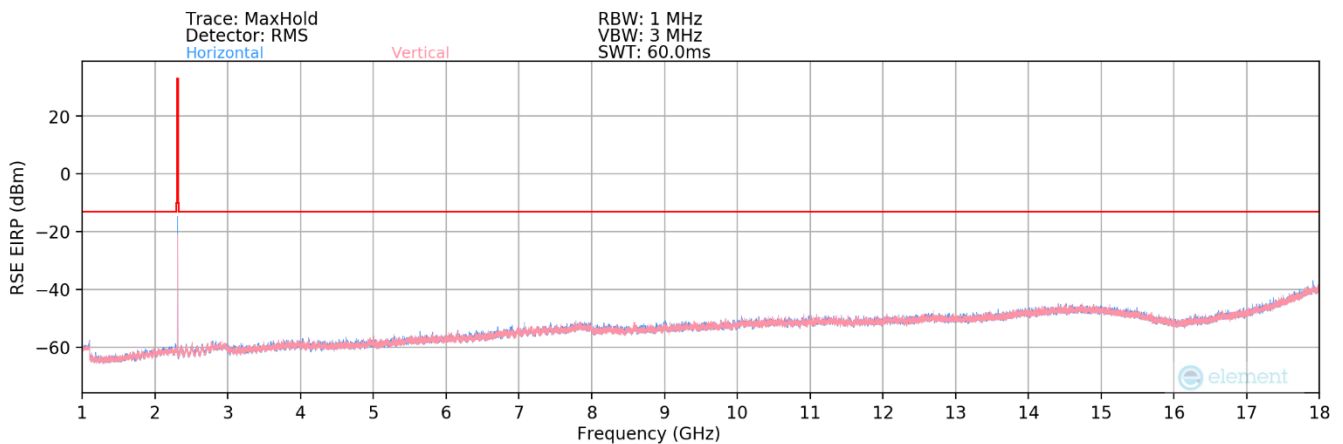
Table 24. Radiated Spurious Data (NR n5 – Band 2 Ant A)

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-01.A3L	Test Dates: 9/2/2022 - 11/4/2022	EUT Type: Portable Handset	Page 83 of 101

EN-DC NR n5 – LTE Band 30 (Ant A)



Plot 7-106. Radiated Spurious Plot (NR n5 – Band 30 Ant A – Below 1GHz)



Plot 7-107. Radiated Spurious Plot (NR n5 – Band 30 Ant A – Above 1GHz)

Bandwidth (MHz):	20 / 10
Frequency (MHz):	836.5 / 2310
RB / Offset:	1/53 / 1/25
Mode:	EN-DC
Anchor Band:	30

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]
199.5	V	-	-	-72.73	12.59	46.86	-48.40	-13.00	-35.40
437.5	V	-	-	-71.11	17.84	53.73	-41.52	-13.00	-28.52
637.0	V	-	-	-73.47	21.04	54.57	-40.69	-13.00	-27.69

Table 25. Radiated Spurious Data (NR n5 – Band 30 Ant A – Below 1GHz)

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-01.A3L	Test Dates: 9/2/2022 - 11/4/2022	EUT Type: Portable Handset	Page 84 of 101



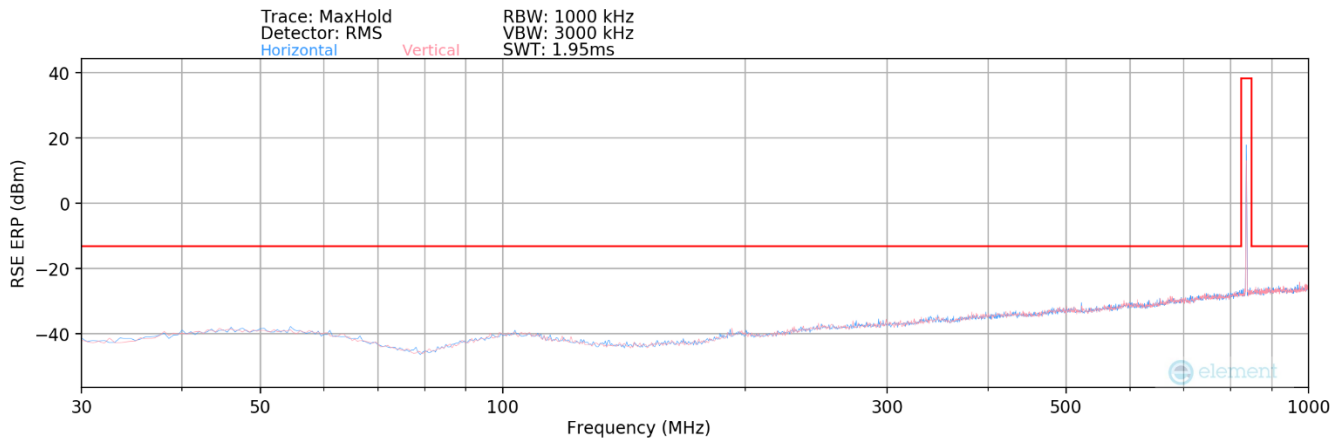
Bandwidth (MHz):	20 / 10
Frequency (MHz):	836.5 / 2310
RB / Offset:	1/53 / 1/25
Mode:	EN-DC
Anchor Band:	30

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]
3584.0	H	-	-	-76.37	-0.59	30.04	-65.22	-13.00	-52.22
3783.5	H	116	24	-75.86	0.31	31.45	-63.81	-13.00	-50.81
3983.0	H	146	25	-77.03	1.67	31.64	-63.62	-13.00	-50.62
4382.0	H	-	-	-77.31	0.37	30.06	-65.19	-13.00	-52.19
5456.5	H	-	-	-77.45	2.99	32.54	-62.72	-13.00	-49.72

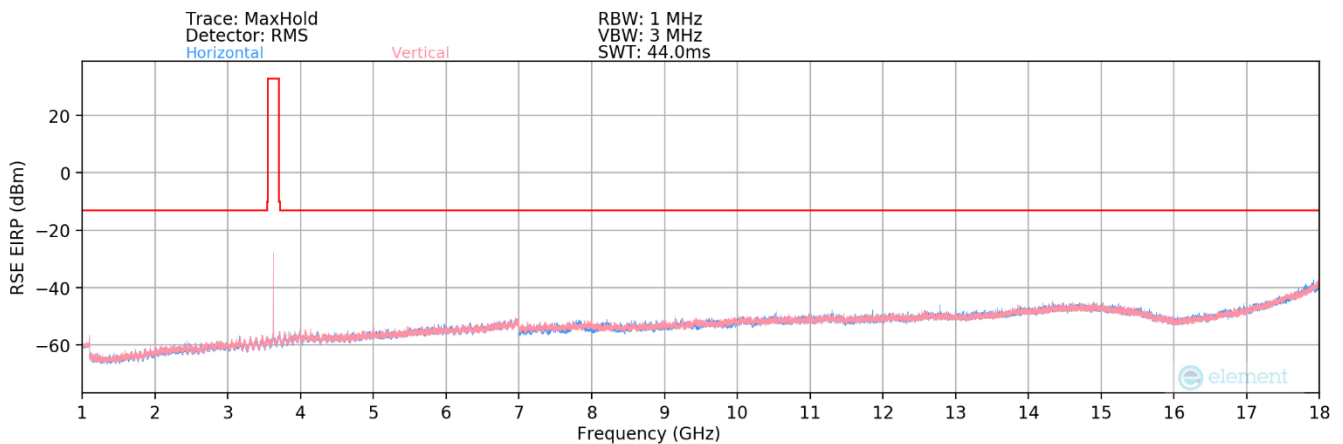
Table 26. Radiated Spurious Data (NR n5 – Band 30 Ant A)

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-01.A3L	Test Dates: 9/2/2022 - 11/4/2022	EUT Type: Portable Handset	Page 85 of 101

EN-DC NR n5 – Band 48 (Ant F)



Plot 7-108. Radiated Spurious Plot (NR n5 – Band 48 Ant F – Below 1GHz)



Plot 7-109. Radiated Spurious Plot (NR n5 – Band 48 Ant F – Above 1GHz)

Bandwidth (MHz):	20 / 20
Frequency (MHz):	836.5 / 3625
RB Config (Size / Offset):	1/53 / 1/50
Mode:	EN-DC
Anchor Band:	48

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]
267.35	H	-	-	-69.75	13.99	51.24	-44.01	-13.00	-31.01
810.71	H	-	-	-73.26	23.92	57.66	-37.59	-13.00	-24.59
850.82	H	-	-	-71.74	24.46	59.72	-35.54	-13.00	-22.54

Table 27. Radiated Spurious Data (NR n5 – Band 48 Ant F – Below 1GHz)

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-01.A3L	Test Dates: 9/2/2022 - 11/4/2022	EUT Type: Portable Handset	Page 86 of 101



Bandwidth (MHz):	20 / 20
Frequency (MHz):	836.5 / 3625
RB Config (Size / Offset):	1/53 / 1/50
Mode:	EN-DC
Anchor Band:	48

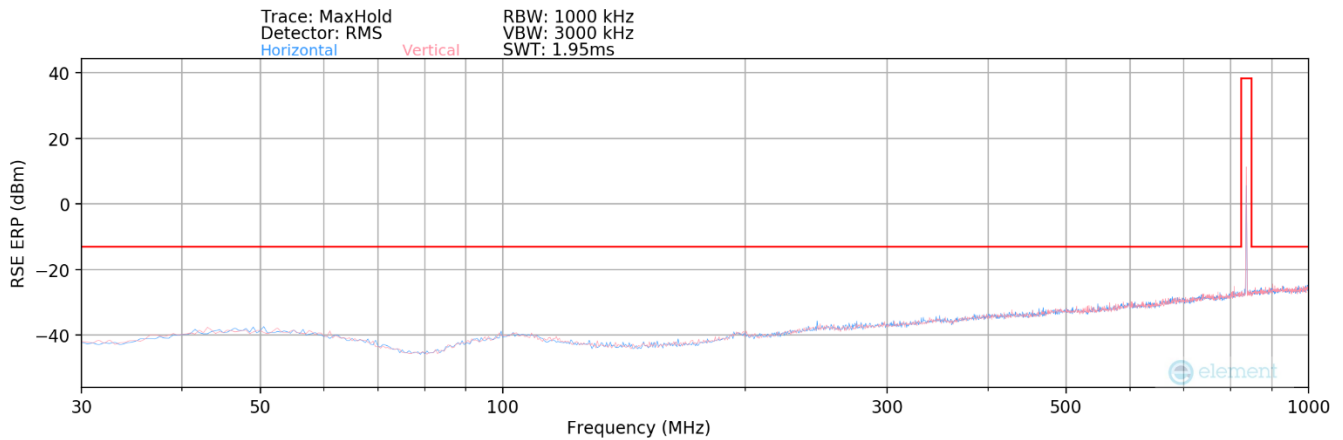
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1952.00	V	212	10	-75.13	-5.80	26.07	-69.19	-13.00	-56.19
4740.50	V	-	-	-78.26	1.09	29.83	-65.43	-13.00	-52.43
5298.00	V	-	-	-77.97	2.53	31.56	-63.70	-13.00	-50.70
6413.50	V	224	27	-78.39	4.99	33.60	-71.20	-13.00	-58.20
8086.50	V	-	-	-81.38	9.69	35.31	-69.49	-13.00	-56.49

Table 28. Radiated Spurious Data (NR n5 – Band 48 Ant F)

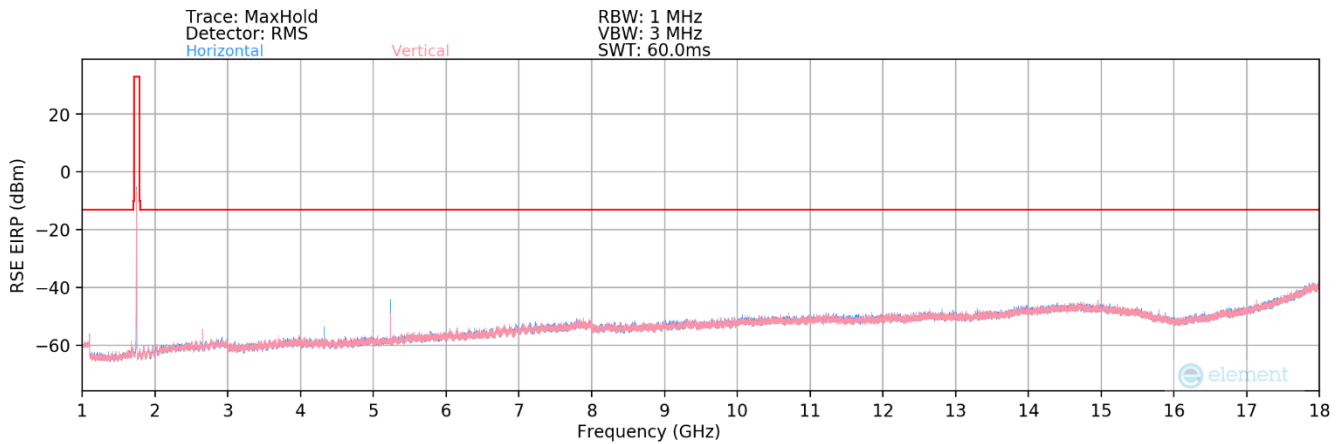
FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-01.A3L	Test Dates: 9/2/2022 - 11/4/2022	EUT Type: Portable Handset	Page 87 of 101



EN-DC NR n5 – LTE Band 66 (Ant F)



Plot 7-110. Radiated Spurious Plot (NR n5 – Band 66 Ant F – Below 1GHz)



Plot 7-111. Radiated Spurious Plot (NR n5 – Band 66 Ant F – Above 1GHz)

Bandwidth (MHz):	20 / 20
Frequency (MHz):	836.5 / 1745
RB / Offset:	1/53 / 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]
72.00	V	-	-	-73.22	9.52	43.30	-51.96	-13.00	-38.96
692.50	V	-	-	-73.10	22.28	56.18	-39.08	-13.00	-26.08
980.50	V	-	-	-72.99	25.52	59.53	-35.72	-13.00	-22.72

Table 29. Radiated Spurious Data (NR n5 – Band 66 Ant F – Below 1GHz)

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-01.A3L	Test Dates: 9/2/2022 - 11/4/2022	EUT Type: Portable Handset	Page 88 of 101



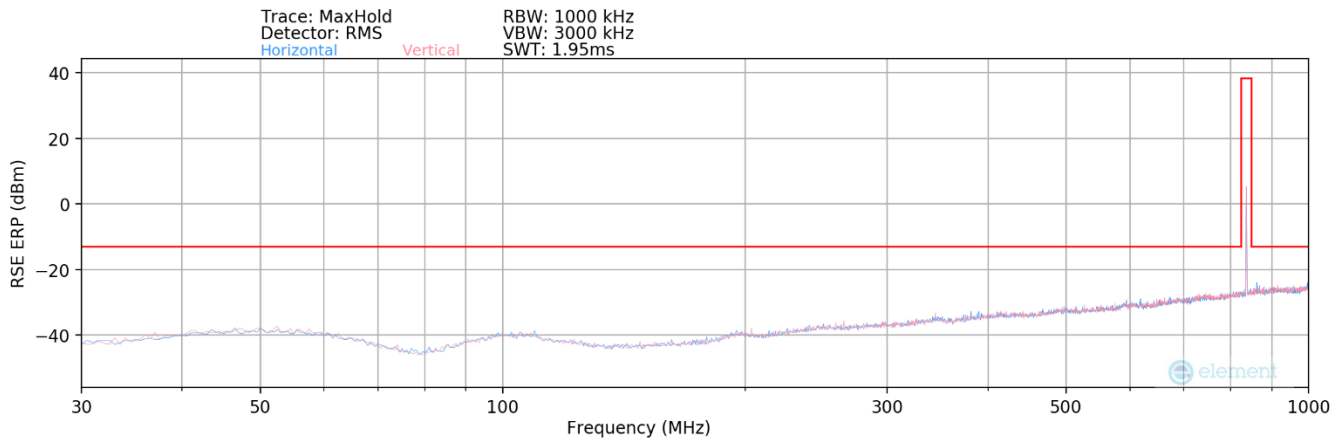
Bandwidth (MHz):	20 / 20
Frequency (MHz):	836.5 / 1745
RB / Offset:	1/53 / 1/50
Mode:	EN-DC
Anchor Band:	66

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]
2653.50	H	382	19	-64.51	-3.94	38.55	-56.70	-13.00	-43.70
3418.00	H	-	-	-76.04	-1.09	29.87	-65.39	-13.00	-52.39
3562.00	H	-	-	-76.68	-0.66	29.66	-65.60	-13.00	-52.60
4326.50	H	360	8	-75.99	0.46	31.47	-63.79	-13.00	-50.79
4470.50	H	-	-	-77.73	0.85	30.12	-65.14	-13.00	-52.14

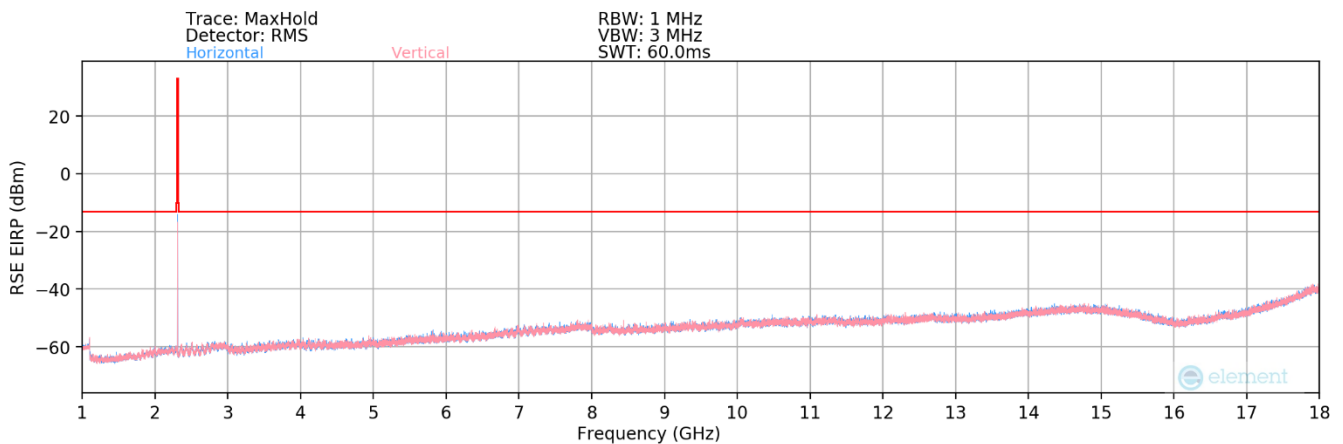
Table 30. Radiated Spurious Data (NR n5 – Band 66 Ant F)

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-01.A3L	Test Dates: 9/2/2022 - 11/4/2022	EUT Type: Portable Handset	Page 89 of 101

EN-DC NR n5 – LTE Band 30 (Ant F)



Plot 7-112. Radiated Spurious Plot (NR n5 – Band 30 Ant F – Below 1GHz)



Plot 7-113. Radiated Spurious Plot (NR n5 – Band 30 Ant F – Above 1GHz)

Bandwidth (MHz):	20 / 10
Frequency (MHz):	836.5 / 2310
RB / Offset:	1/53 / 1/25
Mode:	EN-DC
Anchor Band:	30

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]
199.5	V	-	-	-72.67	12.59	46.92	-48.34	-13.00	-35.34
437.5	V	-	-	-70.90	17.84	53.94	-41.31	-13.00	-28.31
637.0	V	-	-	-73.18	21.04	54.86	-40.40	-13.00	-27.40

Table 31. Radiated Spurious Data (NR n5 – Band 30 Ant F – Below 1GHz)

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-01.A3L	Test Dates: 9/2/2022 - 11/4/2022	EUT Type: Portable Handset	Page 90 of 101



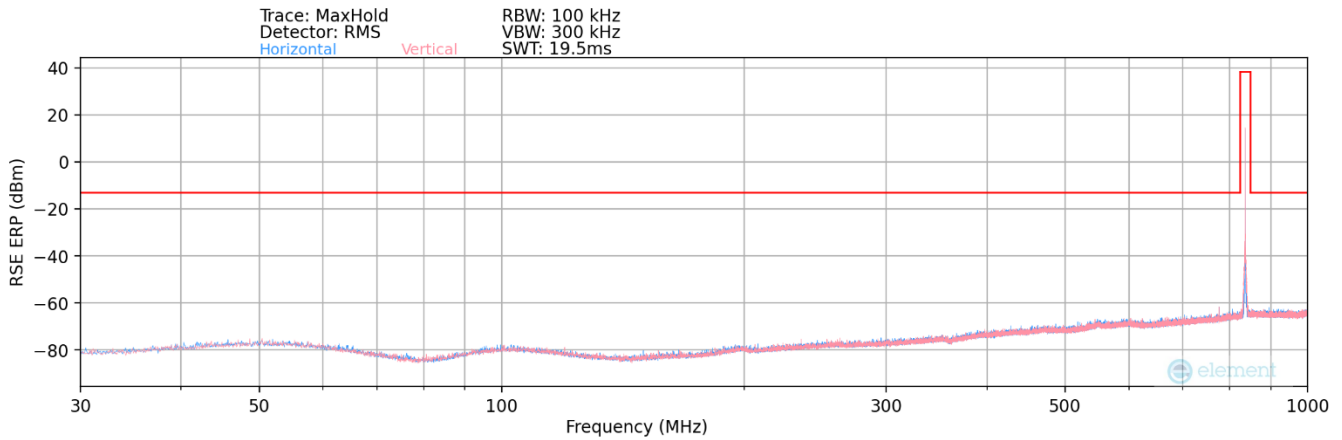
Bandwidth (MHz):	20 / 10
Frequency (MHz):	836.5 / 2310
RB / Offset:	1/53 / 1/25
Mode:	EN-DC
Anchor Band:	30

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3584.0	H	-	-	-77.78	-0.59	28.63	-66.63	-13.00	-53.63
3783.5	H	154	328	-68.72	0.31	38.59	-56.67	-13.00	-43.67
3983.0	H	-	-	-78.40	1.67	30.27	-64.99	-13.00	-51.99
4382.0	H	-	-	-77.93	0.37	29.44	-65.81	-13.00	-52.81
5456.5	H	183	357	-75.19	2.99	34.80	-60.46	-13.00	-47.46

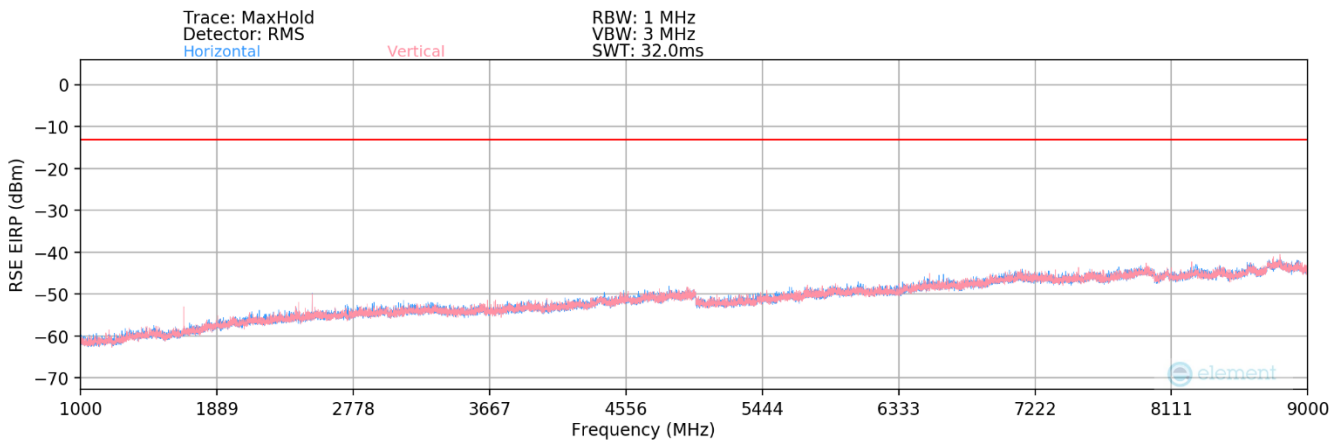
Table 32. Radiated Spurious Data (NR n5 – Band 30 Ant F)

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-01.A3L	Test Dates: 9/2/2022 - 11/4/2022	EUT Type: Portable Handset	Page 91 of 101

GSM/GPRS Cell



Plot 7-114. Radiated Spurious Plot (GPRS Cell – Below 1GHz)



Plot 7-115. Radiated Spurious Plot (GPRS Cell – Above 1GHz)

Mode:	GPRS 1 Tx Slot
Channel:	190
Frequency (MHz):	836.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
548.45	V	-	-	-67.44	-9.12	30.44	-66.97	-13.00	-53.97

Table 7-33. Radiated Spurious Data (GPRS Cell – Below 1GHz)

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-01.A3L	Test Dates: 9/2/2022 - 11/4/2022	EUT Type: Portable Handset	Page 92 of 101

Mode:	GPRS 1 Tx Slot
Channel:	128
Frequency (MHz):	824.2

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]
1648.40	V	206	161	-63.06	0.42	44.36	-50.90	-13.00	-37.90
2472.60	V	149	97	-63.56	4.71	48.15	-47.10	-13.00	-34.10
3296.80	V	-	-	-69.06	6.88	44.82	-50.44	-13.00	-37.44
4121.00	V	148	55	-68.53	7.99	46.46	-48.80	-13.00	-35.80
4945.20	V	-	-	-69.36	9.34	46.98	-48.27	-13.00	-35.27
5769.40	V	-	-	-69.73	11.97	49.24	-46.01	-13.00	-33.01

Table 7-34. Radiated Spurious Data (GPRS Cell – Low Channel)

Mode:	GPRS 1 Tx Slot
Channel:	190
Frequency (MHz):	836.6

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]
1673.20	V	102	301	-61.10	1.09	46.99	-48.27	-13.00	-35.27
2509.80	V	123	67	-64.06	4.85	47.79	-47.47	-13.00	-34.47
3346.40	V	-	-	-68.79	7.04	45.25	-50.01	-13.00	-37.01
4183.00	V	-	-	-69.21	8.06	45.85	-49.41	-13.00	-36.41
5019.60	V	-	-	-70.41	10.23	46.82	-48.44	-13.00	-35.44

Table 7-35. Radiated Spurious Data (GPRS Cell – Mid Channel)

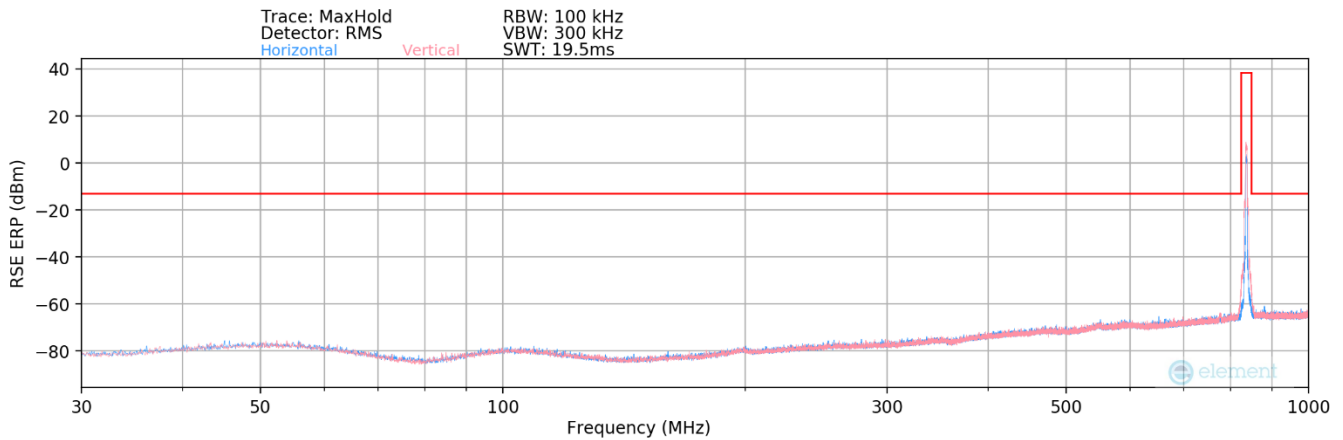
Mode:	GPRS 1 Tx Slot
Channel:	251
Frequency (MHz):	848.8

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1697.60	V	317	210	-60.52	1.39	47.87	-47.38	-13.00	-34.38
2546.40	V	144	90	-64.23	5.21	47.98	-47.28	-13.00	-34.28
3395.20	V	-	-	-68.36	6.67	45.31	-49.95	-13.00	-36.95
4244.00	V	-	-	-69.37	8.44	46.07	-49.19	-13.00	-36.19
5092.80	V	-	-	-69.53	9.81	47.28	-47.98	-13.00	-34.98

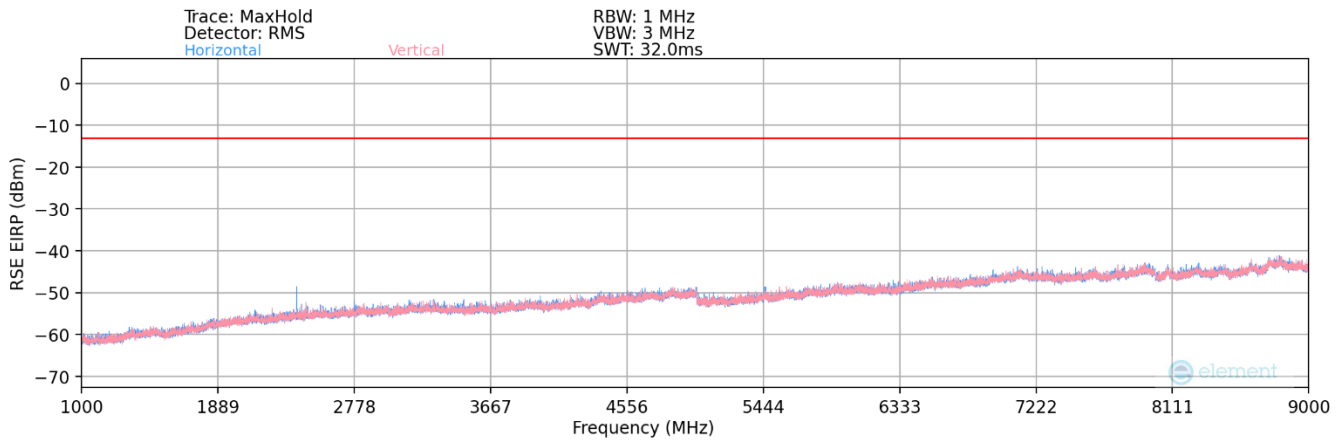
Table 7-36. Radiated Spurious Data (GPRS Cell – High Channel)

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA Cell



Plot 7-116. Radiated Spurious Plot (WCDMA Cell – Below 1GHz)



Plot 7-117. Radiated Spurious Plot (WCDMA Cell – Above 1GHz)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
775.57	V	-	-	-77.38	-5.65	23.97	-73.44	-13.00	-60.44

Table 7-37. Radiated Spurious Data (WCDMA Cell – Below 1GHz)

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode:	WCDMA RMC
Channel:	4132
Frequency (MHz):	826.4

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]
1652.80	V	-	-	-78.32	0.54	29.22	-66.04	-13.00	-53.04
2479.20	V	-	-	-78.96	4.76	32.80	-62.46	-13.00	-49.46
3305.60	V	-	-	-79.76	7.04	34.28	-60.98	-13.00	-47.98

Table 7-38. Radiated Spurious Data (WCDMA Cell – Low Channel)

Mode:	WCDMA RMC
Channel:	4183
Frequency (MHz):	836.6

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]
1673.20	V	-	-	-77.14	1.09	30.95	-64.31	-13.00	-51.31
2509.80	V	-	-	-79.23	4.85	32.62	-62.64	-13.00	-49.64
3346.40	V	-	-	-80.05	7.04	33.99	-61.27	-13.00	-48.27

Table 7-39. Radiated Spurious Data (WCDMA Cell – Mid Channel)

Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

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]
1693.20	V	-	-	-78.33	1.36	30.03	-65.23	-13.00	-52.23
2539.80	V	-	-	-79.47	5.25	32.78	-62.48	-13.00	-49.48
3386.40	V	-	-	-79.84	6.70	33.86	-61.40	-13.00	-48.40

Table 7-40. Radiated Spurious Data (WCDMA Cell – High Channel)

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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7.8 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. 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 22 and RSS-132, the frequency stability of the transmitter shall be maintained within ±0.00025% (±2.5 ppm) of the center frequency.

Test Procedure Used

ANSI C63.26-2015 – Section 5.6

Test Settings

1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
2. The equipment is turned on in a “standby” condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

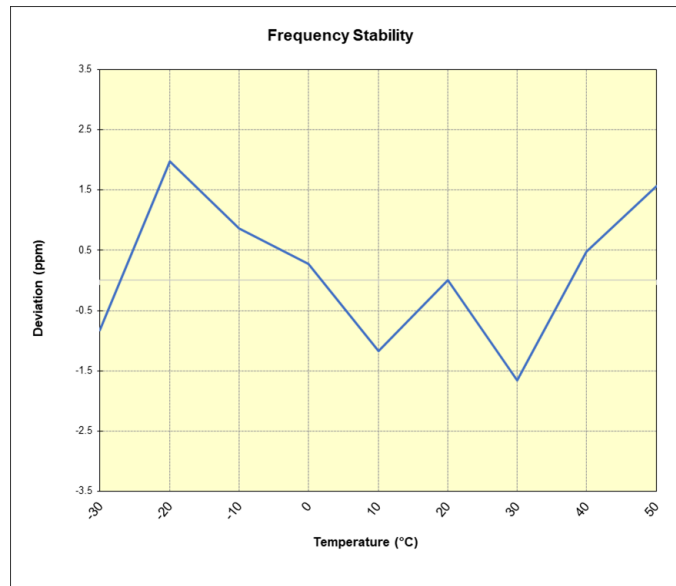
None

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LTE Band 26/5

LTE Band 26/5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		4.35	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.35	- 30	836,498,928	-685	-0.0000819
		- 20	836,501,267	1,654	0.0001977
		- 10	836,500,336	723	0.0000864
		0	836,499,839	226	0.0000270
		+ 10	836,498,633	-980	-0.0001172
		+ 20 (Ref)	836,499,613	0	0.0000000
		+ 30	836,498,229	-1,384	-0.0001655
		+ 40	836,500,017	404	0.0000483
Battery Endpoint	3.69	+ 20	836,500,968	1,355	0.0001620

Table 7-41. LTE Band 26/5 Frequency Stability Data



Plot 7-118. LTE Band 26/5 Frequency Stability Chart

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n5

NR Band n5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		4.35	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.35	- 30	836,568,371	-1,276	-0.0001525
		- 20	836,568,983	-664	-0.0000794
		- 10	836,568,636	-1,011	-0.0001209
		0	836,568,747	-900	-0.0001076
		+ 10	836,568,308	-1,339	-0.0001601
		+ 20 (Ref)	836,569,647	0	0.0000000
		+ 30	836,570,945	1,298	0.0001552
		+ 40	836,569,761	114	0.0000136
		+ 50	836,569,321	-326	-0.0000390
Battery Endpoint	3.69	+ 20	836,569,353	-294	-0.0000351

Table 7-9. NR Band n5 Frequency Stability Data

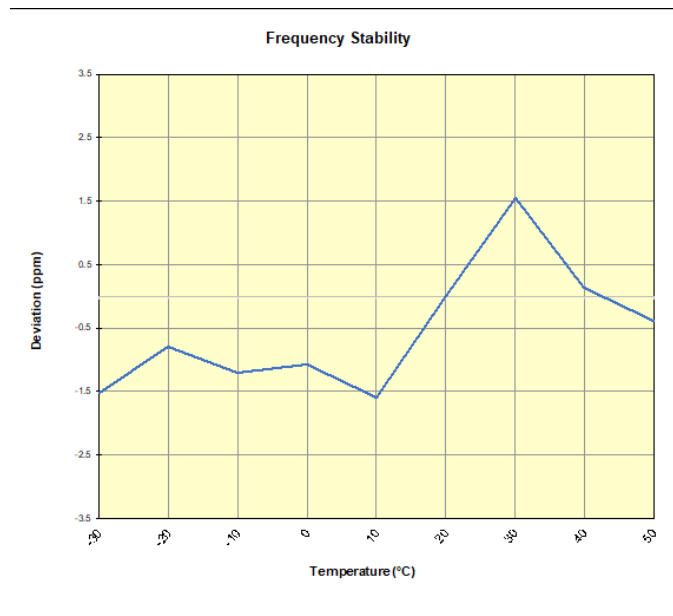


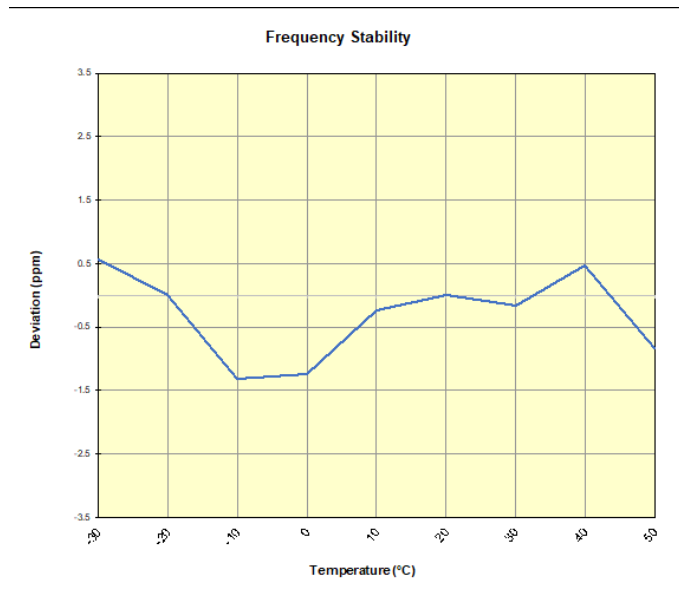
Table 7-9. NR Band n5 Frequency Stability Chart

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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GSM/GPRS Cell

GSM/GPRS Cellular					
		Operating Frequency (Hz):		836,600,000	
		Ref. Voltage (VDC):		4.35	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.35	- 30	836,602,042	465	0.0000556
		- 20	836,601,574	-3	-0.0000004
		- 10	836,600,477	-1,100	-0.0001315
		0	836,600,537	-1,040	-0.0001243
		+ 10	836,601,376	-201	-0.0000240
		+ 20 (Ref)	836,601,577	0	0.0000000
		+ 30	836,601,441	-136	-0.0000163
		+ 40	836,601,969	392	0.0000469
		+ 50	836,600,878	-699	-0.0000836
Battery Endpoint	3.69	+ 20	836,601,380	-197	-0.0000235

Table 7-42. GSM/GPRS Cell Frequency Stability Data



Plot 7-119. GSM/GPRS Cell Frequency Stability Chart

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA Cell

WCDMA Cellular					
		Operating Frequency (Hz):		836,600,000	
		Ref. Voltage (VDC):		4.35	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.35	- 30	836,570,680	1,061	0.0001268
		- 20	836,568,236	-1,383	-0.0001653
		- 10	836,568,038	-1,581	-0.0001890
		0	836,568,047	-1,572	-0.0001879
		+ 10	836,569,083	-536	-0.0000641
		+ 20 (Ref)	836,569,619	0	0.0000000
		+ 30	836,570,191	572	0.0000684
		+ 40	836,568,108	-1,511	-0.0001806
		+ 50	836,571,398	1,779	0.0002127
Battery Endpoint	3.69	+ 20	836,569,393	-226	-0.0000270

Table 7-9. WCDMA Cell Frequency Stability Data

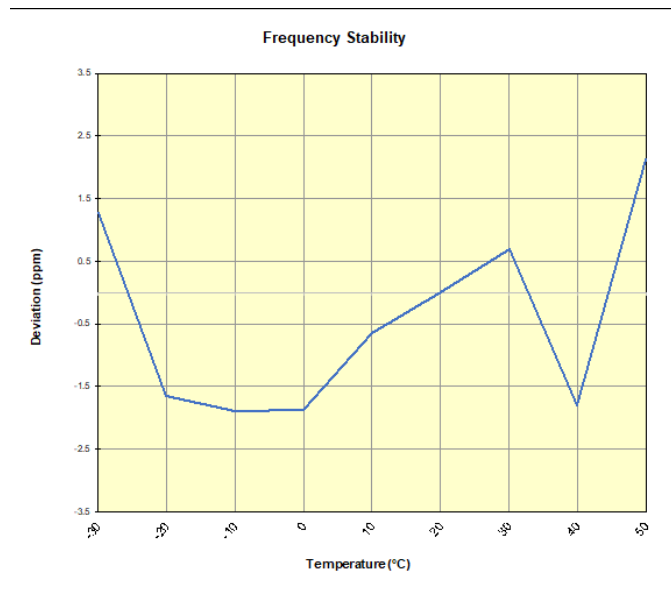


Table 7-9. WCDMA Cell Frequency Stability Chart

FCC ID: A3LSMS916U	PART 22 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: A3LSMS916U** complies with all the requirements of Part 22 of the FCC rules.

FCC ID: A3LSMS916U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010097-01.A3L	Test Dates: 9/2/2022 - 11/4/2022	EUT Type: Portable Handset	Page 101 of 101