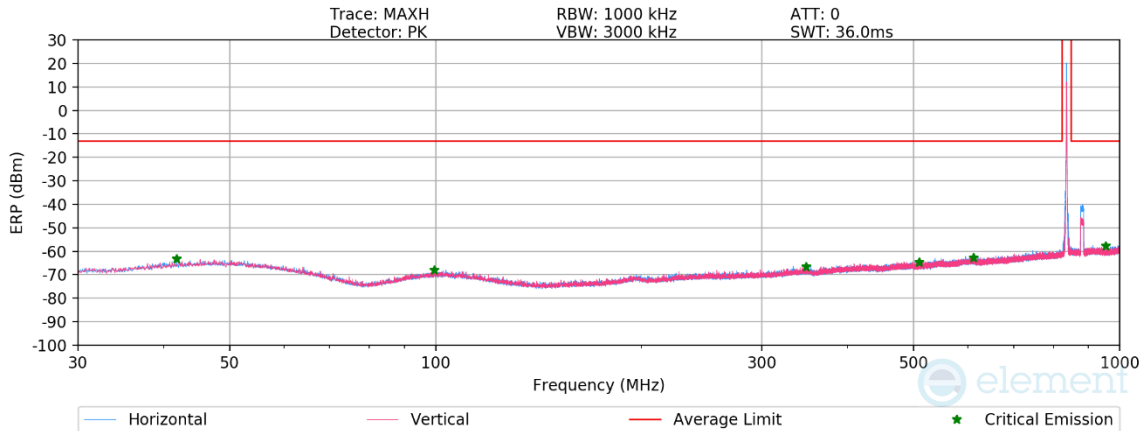
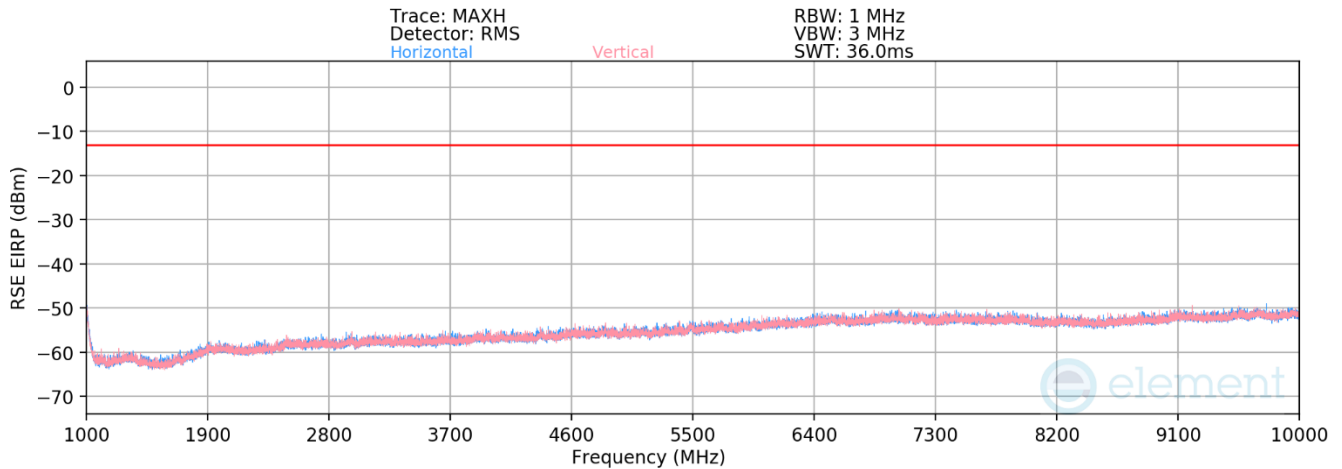


LTE Band 26/5 – Ant1



Plot 7-95. Radiated Spurious Plot Below 1GHz (LTE Band 26/5) – Ant1



Plot 7-96. Radiated Spurious Plot Above 1GHz (LTE Band 26/5) – Ant1

Bandwidth (MHz):	10
Frequency (MHz):	836.5
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]
45.4	V	-	-	-70.89	-1.98	34.13	-63.28	-13.00	-50.28
118.1	V	-	-	-74.32	-3.37	29.31	-68.10	-13.00	-55.10
185.2	V	-	-	-76.88	0.90	31.02	-66.39	-13.00	-53.39
337.4	V	-	-	-78.14	4.42	33.28	-64.13	-13.00	-51.13
477.3	H	-	-	-78.87	7.39	35.52	-61.89	-13.00	-48.89
948.2	H	-	-	-78.78	11.46	39.68	-57.73	-13.00	-44.73

Table 7-24. Radiated Spurious Data (LTE Band 26/5 – Mid Channel) – Ant1

FCC ID: A3LSMS936U	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260064-01.A3L	Test Dates: 8/30/2024 - 10/01/2024	EUT Type: Portable Handset		Page 84 of 101

Bandwidth (MHz):	10
Frequency (MHz):	829.0
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]
1658.0	-	-	-	-76.88	-1.95	28.17	-67.08	-13.00	-54.08
2487.0	-	-	-	-77.41	2.37	31.96	-63.30	-13.00	-50.30
3316.0	-	-	-	-78.75	4.23	32.48	-62.78	-13.00	-49.78

Table 7-25. Radiated Spurious Data (LTE Band 26/5 – Low Channel) – Ant1

Bandwidth (MHz):	10
Frequency (MHz):	836.5
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]
1673.0	-	-	-	-76.80	-1.95	28.25	-67.01	-13.00	-54.01
2509.5	V	248	100	-75.37	2.69	34.32	-60.94	-13.00	-47.94
3346.0	-	-	-	-78.72	4.23	32.51	-62.75	-13.00	-49.75
4182.5	-	-	-	-80.06	6.29	33.24	-62.02	-13.00	-49.02
5019.0	-	-	-	-80.97	7.93	33.97	-61.29	-13.00	-48.29

Table 7-26. Radiated Spurious Data (LTE Band 26/5 – Mid Channel) – Ant1

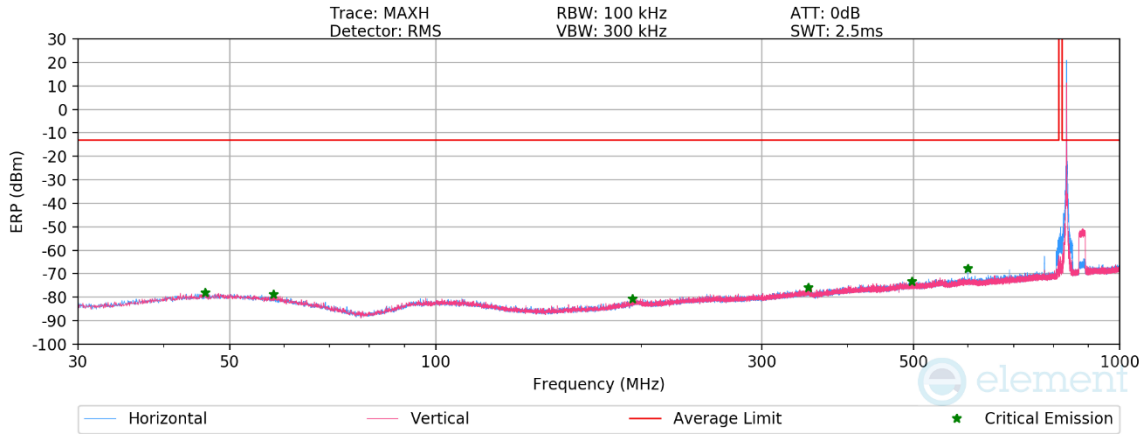
Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 25

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]
1688.0	-	-	-	-76.94	-1.95	28.11	-67.14	-13.00	-54.14
2532.0	-	-	-	-78.01	2.66	31.65	-63.61	-13.00	-50.61
3376.0	-	-	-	-79.00	4.18	32.18	-63.07	-13.00	-50.07

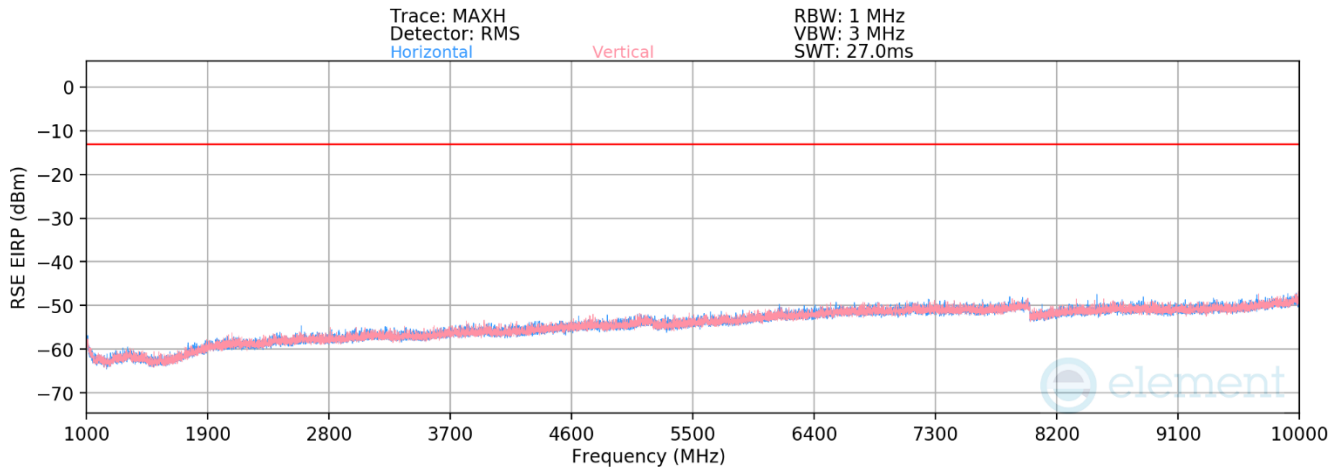
Table 7-27. Radiated Spurious Data (LTE Band 26/5 – High Channel) – Ant1

FCC ID: A3LSMS936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n26/5 – Ant1



Plot 7-97. Radiated Spurious Plot Below 1GHz (NR Band n26/5) – Ant1



Plot 7-98. Radiated Spurious Plot Above 1GHz (NR Band n26/5) – Ant1

Bandwidth (MHz):	20
Frequency (MHz):	836.5
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
46.00	V	200	-	-81.45	-5.91	19.64	-78.11	-13.00	-65.11
57.90	H	200	-	-81.07	-6.99	18.93	-78.82	-13.00	-65.82
193.95	H	200	-	-82.20	-7.63	17.17	-80.59	-13.00	-67.59
350.65	V	200	-	-82.08	-2.96	21.96	-75.79	-13.00	-62.79
496.90	H	200	-	-82.68	0.18	24.50	-73.26	-13.00	-60.26
599.65	H	200	-	-79.80	2.81	30.01	-67.75	-13.00	-54.75

Table 7-28. Radiated Spurious Data (NR Band n26/5) – Ant1

FCC ID: A3LSMS936U	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	834.0
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]
1691.9	H	-	-	-78.83	-0.83	27.34	-67.92	-13.00	-54.92
2486.2	H	-	-	-79.92	4.07	31.15	-64.11	-13.00	-51.11
3350.3	H	-	-	-80.95	6.05	32.10	-63.16	-13.00	-50.16

Table 7-29. Radiated Spurious Data (NR Band n26/5 – Low Channel) – Ant1

Bandwidth (MHz):	20
Frequency (MHz):	836.5
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]
1671.7	H	-	-	-79.04	-0.79	27.17	-68.09	-13.00	-55.09
2523.9	H	-	-	-79.91	4.05	31.15	-64.11	-13.00	-51.11
3355.8	V	-	-	-80.82	6.05	32.22	-63.03	-13.00	-50.03

Table 7-30. Radiated Spurious Data (NR Band n26/5 – Mid Channel) – Ant1

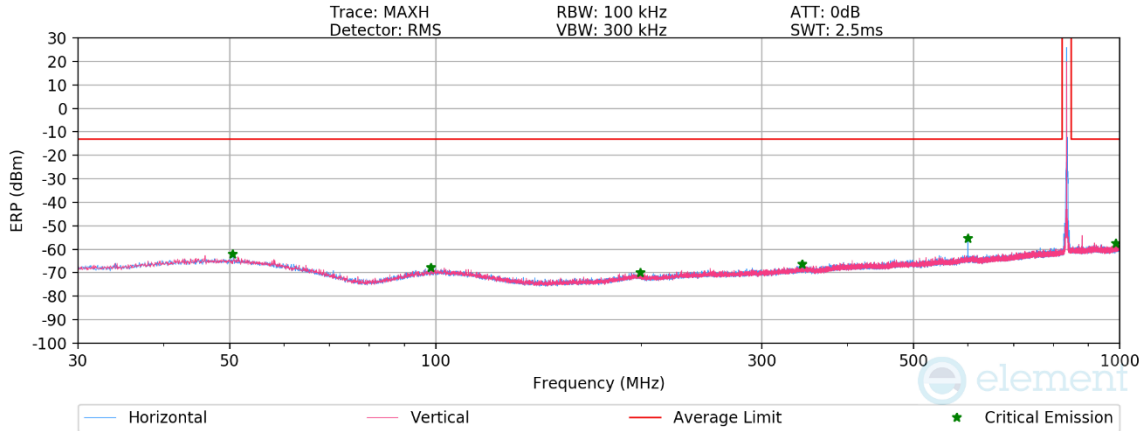
Bandwidth (MHz):	20
Frequency (MHz):	839.0
RB / Offset:	1 / 50

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]
1699.2	H	-	-	-78.91	-0.81	27.28	-67.98	-13.00	-54.98
2533.5	H	-	-	-79.71	4.09	31.38	-63.88	-13.00	-50.88
3357.7	H	-	-	-80.98	6.05	32.06	-63.19	-13.00	-50.19

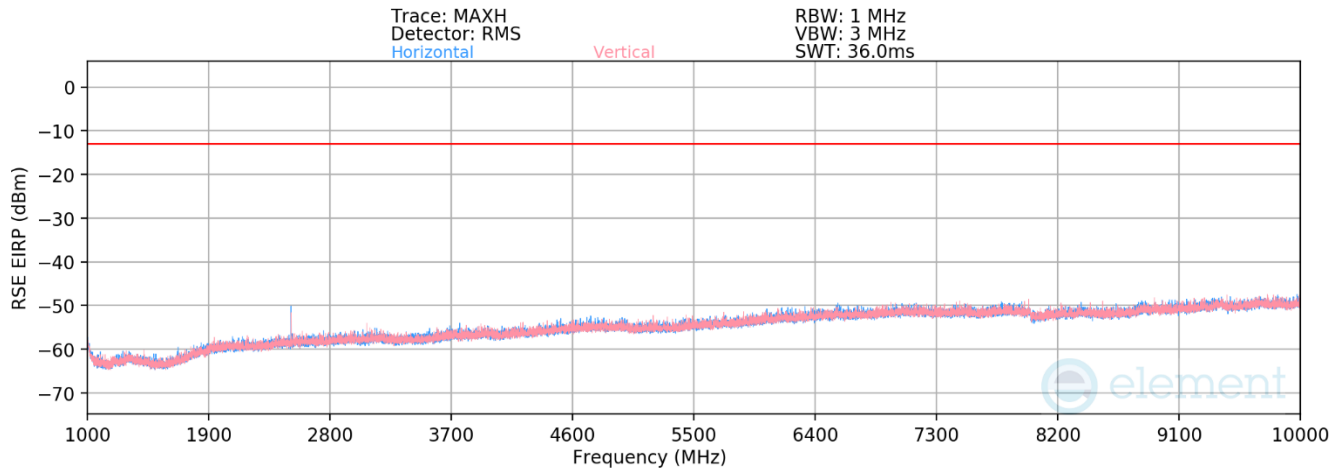
Table 7-31. Radiated Spurious Data (NR Band n26/5 – High Channel) – Ant1

FCC ID: A3LSMS936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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GP RS Cell – Ant2



Plot 7-99. Radiated Spurious Plot Below 1GHz (GPRS Cell) – Ant2



Plot 7-100. Radiated Spurious Plot Above 1GHz (GPRS Cell) – Ant2

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]
50.52	H	200	-	-70.28	-0.95	35.77	-61.98	-13.00	-48.98
98.32	V	200	-	-73.49	-3.51	30.00	-67.76	-13.00	-54.76
199.27	V	200	-	-76.28	-2.92	27.80	-69.96	-13.00	-56.96
343.06	H	200	-	-76.92	1.40	31.48	-66.28	-13.00	-53.28
599.90	H	200	-	-71.36	6.71	42.35	-55.41	-13.00	-42.41
987.58	H	200	-	-78.92	12.18	40.26	-57.50	-13.00	-44.50

Table 7-32. Radiated Spurious Data (GPRS Cell – Mid Channel) – Ant2

FCC ID: A3LSMS936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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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]
1648.4	H	147	160	-76.99	-1.14	28.87	-66.38	-13.00	-53.38
2472.6	H	153	11	-76.93	4.03	34.11	-61.15	-13.00	-48.15
3296.8	H	-	-	-80.08	5.62	32.53	-62.72	-13.00	-49.72
4121.0	H	-	-	-81.21	7.87	33.66	-61.59	-13.00	-48.59
4945.2	H	-	-	-81.75	9.72	34.97	-60.28	-13.00	-47.28

Table 7-33. Radiated Spurious Data (GPRS Cell – Low Channel) – Ant2

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]
1673.2	H	353	179	-76.42	-0.79	29.79	-65.47	-13.00	-52.47
2509.8	H	105	1	-74.33	3.97	36.64	-58.62	-13.00	-45.62
3346.4	V	-	-	-79.99	5.67	32.68	-62.57	-13.00	-49.57
4183.0	H	-	-	-80.95	7.87	33.91	-61.34	-13.00	-48.34
5019.6	V	-	-	-81.64	9.82	35.17	-60.08	-13.00	-47.08

Table 7-34. Radiated Spurious Data (GPRS Cell – Mid Channel) – Ant2

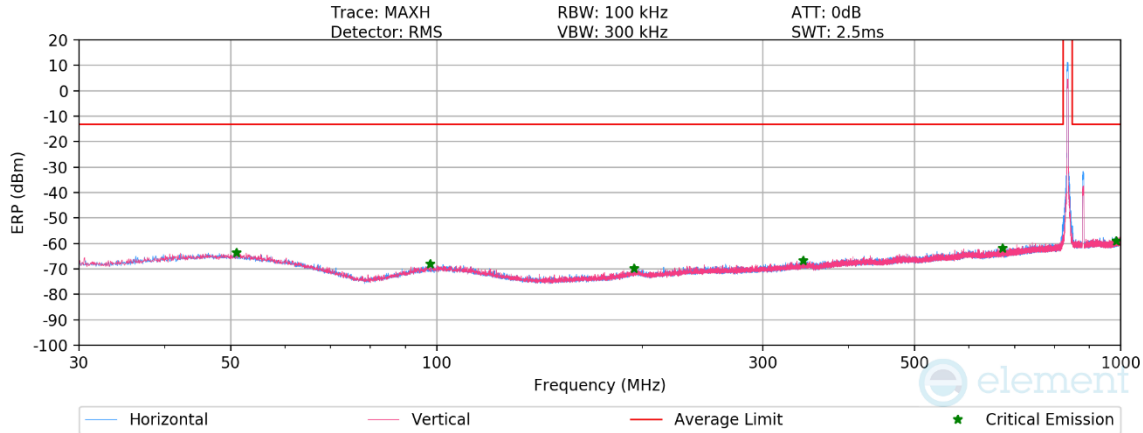
Mode:	GPRS 1 Tx Slot
Channel:	251
Frequency (MHz):	848.8

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]
1697.6	H	117	214	-75.78	-0.81	30.41	-64.85	-13.00	-51.85
2546.4	H	255	184	-75.17	4.09	35.92	-59.34	-13.00	-46.34
3395.2	H	-	-	-80.50	6.09	32.59	-62.67	-13.00	-49.67
4244.0	H	-	-	-81.31	8.11	33.80	-61.46	-13.00	-48.46
5092.8	H	-	-	-82.14	10.08	34.94	-60.32	-13.00	-47.32

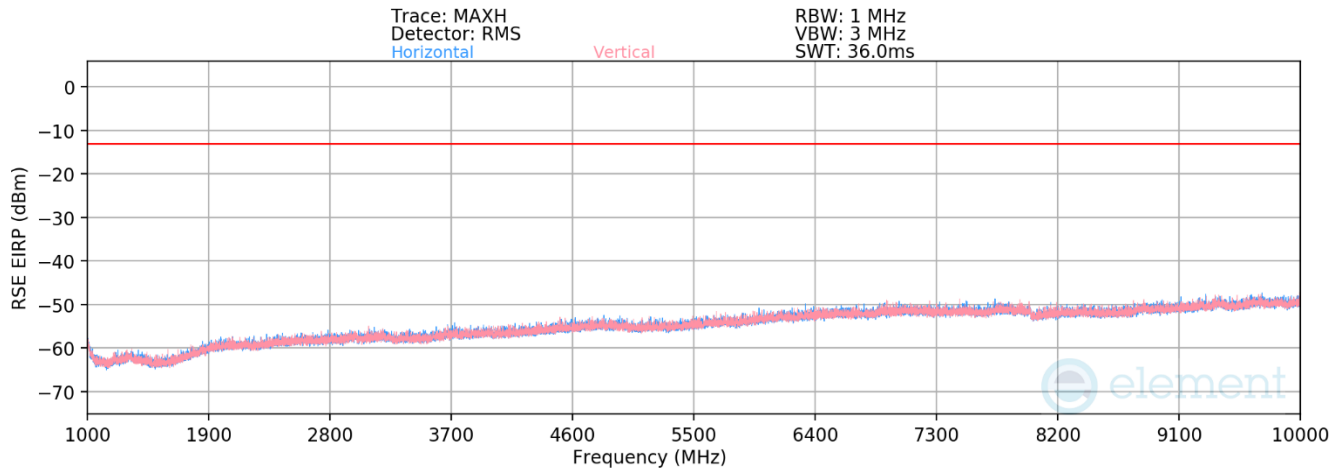
Table 7-35. Radiated Spurious Data (GPRS Cell – High Channel) – Ant2

FCC ID: A3LSMS936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA Cell – Ant2



Plot 7-101. Radiated Spurious Plot Below 1GHz (WCDMA Cell) – Ant2



Plot 7-102. Radiated Spurious Plot Above 1GHz (WCDMA Cell) – Ant2

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]
50.97	V	200	-	-71.84	-0.95	34.21	-63.55	-13.00	-50.55
97.82	H	200	-	-73.69	-3.57	29.74	-68.01	-13.00	-55.01
194.37	H	200	-	-76.21	-2.81	27.98	-69.78	-13.00	-56.78
343.41	H	200	-	-77.35	1.40	31.05	-66.71	-13.00	-53.71
671.89	H	200	-	-78.67	7.61	35.94	-61.82	-13.00	-48.82
984.93	H	200	-	-80.18	12.07	38.89	-58.86	-13.00	-45.86

Table 7-36. Radiated Spurious Data (WCDMA Cell – Mid Channel) – Ant2

FCC ID: A3LSMS936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2408260064-01.A3L	Test Dates: 8/30/2024 - 10/01/2024	EUT Type: Portable Handset	Page 90 of 101

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]
1652.8	H	-	-	-78.79	-0.79	27.42	-67.84	-13.00	-54.84
2479.2	H	-	-	-79.36	3.97	31.61	-63.65	-13.00	-50.65
3305.6	H	-	-	-80.20	5.62	32.42	-62.84	-13.00	-49.84

Table 7-37. Radiated Spurious Data (WCDMA Cell – Low Channel) – Ant2

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]
1673.2	H	-	-	-78.65	-0.81	27.54	-67.72	-13.00	-54.72
2509.8	H	-	-	-79.55	4.05	31.50	-63.75	-13.00	-50.75
3346.4	H	-	-	-80.62	6.16	32.54	-62.71	-13.00	-49.71

Table 7-38. Radiated Spurious Data (WCDMA Cell – Mid Channel) – Ant2

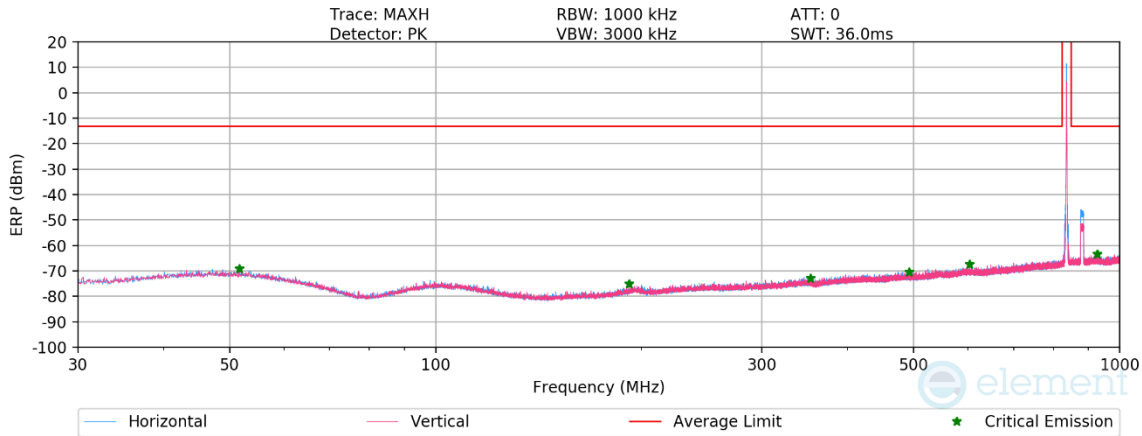
Mode:	WCDMA RMC
Channel:	4233
Frequency (MHz):	846.6

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]
1693.2	H	-	-	-78.81	-0.22	27.97	-67.29	-13.00	-54.29
2539.8	H	-	-	-79.44	4.05	31.61	-63.64	-13.00	-50.64
3386.4	H	-	-	-80.74	6.16	32.42	-62.84	-13.00	-49.84

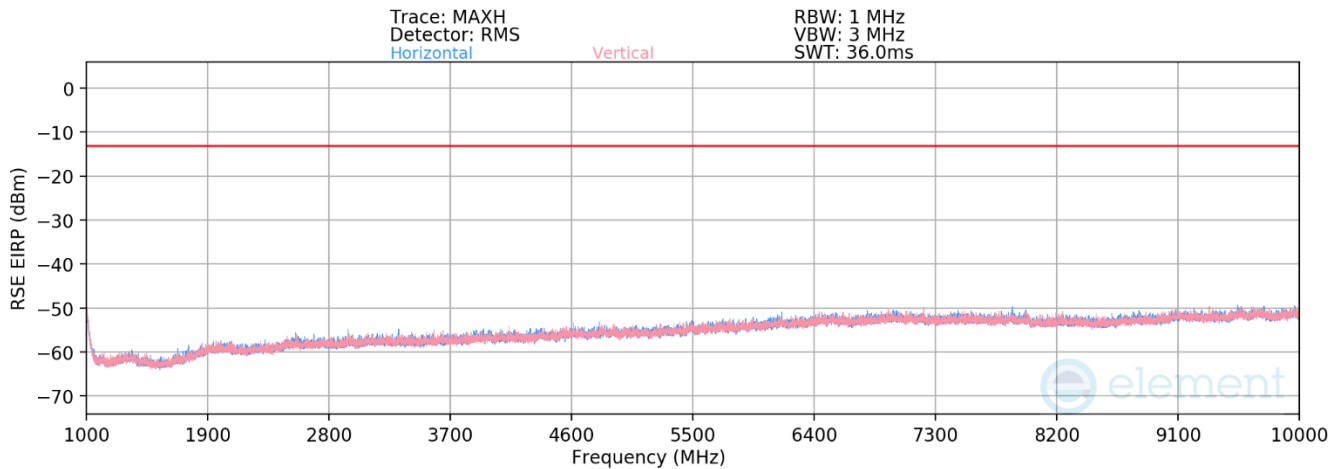
Table 7-39. Radiated Spurious Data (WCDMA Cell – High Channel) – Ant2

FCC ID: A3LSMS936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 26/5 – Ant2



Plot 7-103. Radiated Spurious Plot Below 1GHz (LTE Band 26/5) – Ant2



Plot 7-104. Radiated Spurious Plot Above 1GHz (LTE Band 26/5) – Ant2

Bandwidth (MHz):	15
Frequency (MHz):	836.5
RB / Offset:	1 / 37

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]
51.62	V	200	-	-71.38	-6.95	28.67	-69.09	-13.00	-56.09
191.72	V	200	-	-75.09	-9.16	22.75	-75.01	-13.00	-62.01
345.81	H	200	-	-77.30	-4.51	25.19	-72.57	-13.00	-59.57
492.20	H	200	-	-77.91	-1.71	27.38	-70.38	-13.00	-57.38
603.90	H	200	-	-77.33	0.71	30.38	-67.38	-13.00	-54.38
929.98	V	200	-	-79.19	5.72	33.53	-64.22	-13.00	-51.22

Table 7-40. Radiated Spurious Data (LTE Band 26/5 – Mid Channel) – Ant2

FCC ID: A3LSMS936U	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2408260064-01.A3L	Test Dates: 8/30/2024 - 10/01/2024	EUT Type: Portable Handset		Page 92 of 101

Bandwidth (MHz):	10
Frequency (MHz):	829.0
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]
1658.0	V	-	-	-76.97	-1.98	28.05	-67.21	-13.00	-54.21
2487.0	V	-	-	-77.87	2.47	31.61	-63.65	-13.00	-50.65
3316.0	V	-	-	-78.94	4.13	32.19	-63.07	-13.00	-50.07

Table 7-41. Radiated Spurious Data (LTE Band 26/5 – Low Channel) – Ant2

Bandwidth (MHz):	10
Frequency (MHz):	836.5
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]
1673.0	V	-	-	-77.02	-1.98	28.00	-67.26	-13.00	-54.26
2509.5	H	-	-	-77.95	2.37	31.41	-63.84	-13.00	-50.84
3346.0	H	-	-	-78.97	4.23	32.26	-63.00	-13.00	-50.00

Table 7-42. Radiated Spurious Data (LTE Band 26/5 – Mid Channel) – Ant2

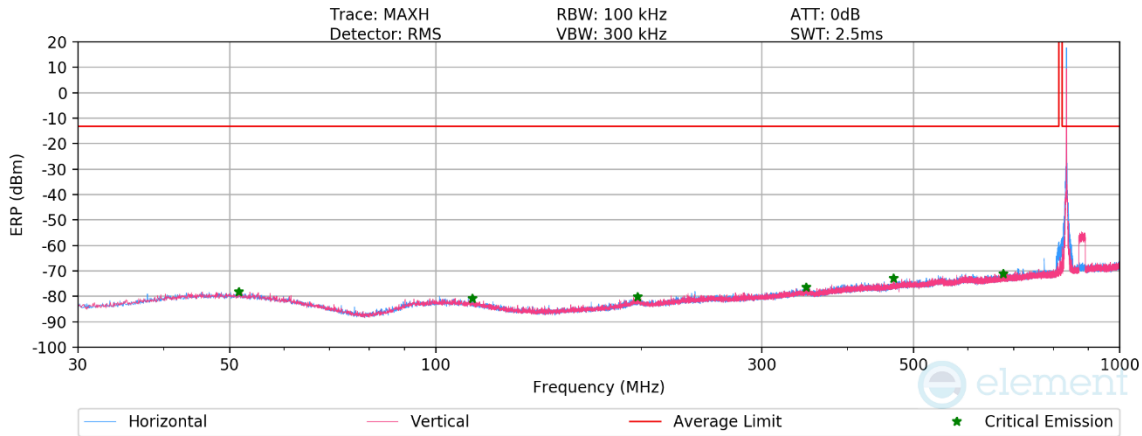
Bandwidth (MHz):	10
Frequency (MHz):	844.0
RB / Offset:	1 / 25

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]
1688.0	H	-	-	-76.93	-2.01	28.06	-67.19	-13.00	-54.19
2532.0	H	-	-	-77.99	2.66	31.67	-63.59	-13.00	-50.59
3376.0	H	-	-	-79.03	4.26	32.22	-63.03	-13.00	-50.03

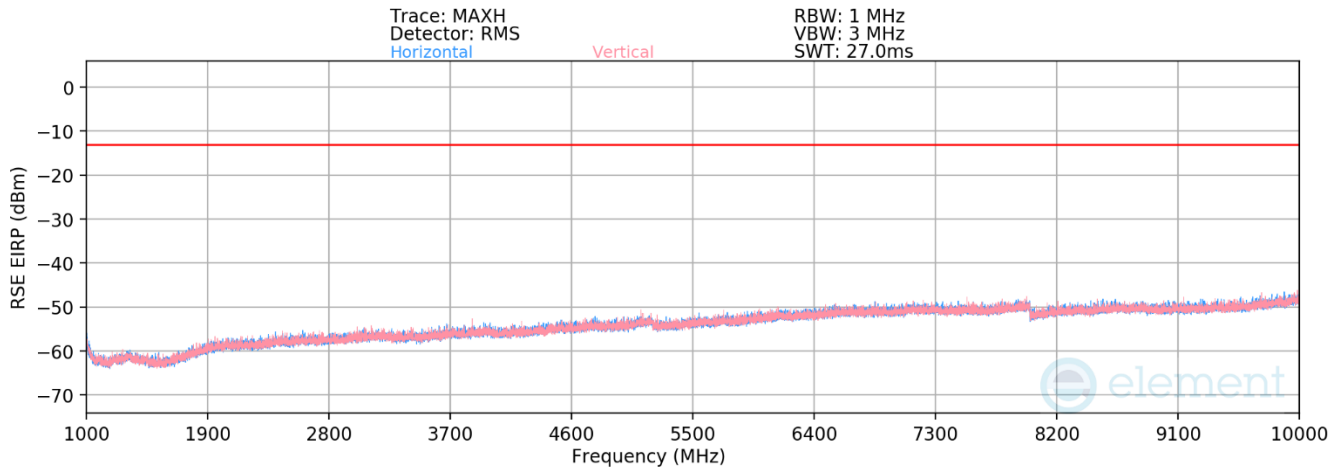
Table 7-43. Radiated Spurious Data (LTE Band 26/5 – High Channel) – Ant2

FCC ID: A3LSMS936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n26/5 – Ant2



Plot 7-105. Radiated Spurious Plot Below 1GHz (NR Band n26/5) – Ant2



Plot 7-106. Radiated Spurious Plot Above 1GHz (NR Band n26/5) – Ant2

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
51.55	V	200	-	-81.55	-5.88	19.57	-78.19	-13.00	-65.19
113.20	H	200	-	-81.74	-8.40	16.87	-80.89	-13.00	-67.89
197.40	H	200	-	-82.34	-7.10	17.56	-80.20	-13.00	-67.20
347.90	V	200	-	-82.84	-2.87	21.29	-76.47	-13.00	-63.47
466.75	V	200	-	-81.45	-0.58	24.97	-72.79	-13.00	-59.79
675.25	H	200	-	-84.27	3.91	26.64	-71.12	-13.00	-58.12

Table 7-44. Radiated Spurious Data (NR Band n26/5 – Mid Channel) – Ant2

FCC ID: A3LSMS936U	PART 22 MEASUREMENT REPORT			Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	834.0
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]
1692.1	V	-	-	-78.80	-0.83	27.37	-67.89	-13.00	-54.89
2488.5	V	-	-	-79.66	4.07	31.41	-63.85	-13.00	-50.85
3336.8	V	-	-	-80.46	5.71	32.25	-63.00	-13.00	-50.00

Table 7-45. Radiated Spurious Data (NR Band n26/5 – Low Channel) – Ant2

Bandwidth (MHz):	20
Frequency (MHz):	836.5
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]
1696.9	H	-	-	-78.75	-0.83	27.42	-67.84	-13.00	-54.84
2522.2	V	-	-	-79.65	4.05	31.40	-63.85	-13.00	-50.85
3320.4	V	-	-	-80.29	5.67	32.38	-62.88	-13.00	-49.88

Table 7-46. Radiated Spurious Data (NR Band n26/5 – Mid Channel) – Ant2

Bandwidth (MHz):	20
Frequency (MHz):	839.0
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]
1698.3	V	-	-	-78.45	-0.81	27.74	-67.52	-13.00	-54.52
2538.7	V	-	-	-79.83	4.09	31.26	-64.00	-13.00	-51.00
3346.5	V	-	-	-80.45	5.80	32.35	-62.91	-13.00	-49.91

Table 7-47. Radiated Spurious Data (NR Band n26/5 – High Channel) – Ant2

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7.7 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 $\pm 0.00025\%$ (± 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

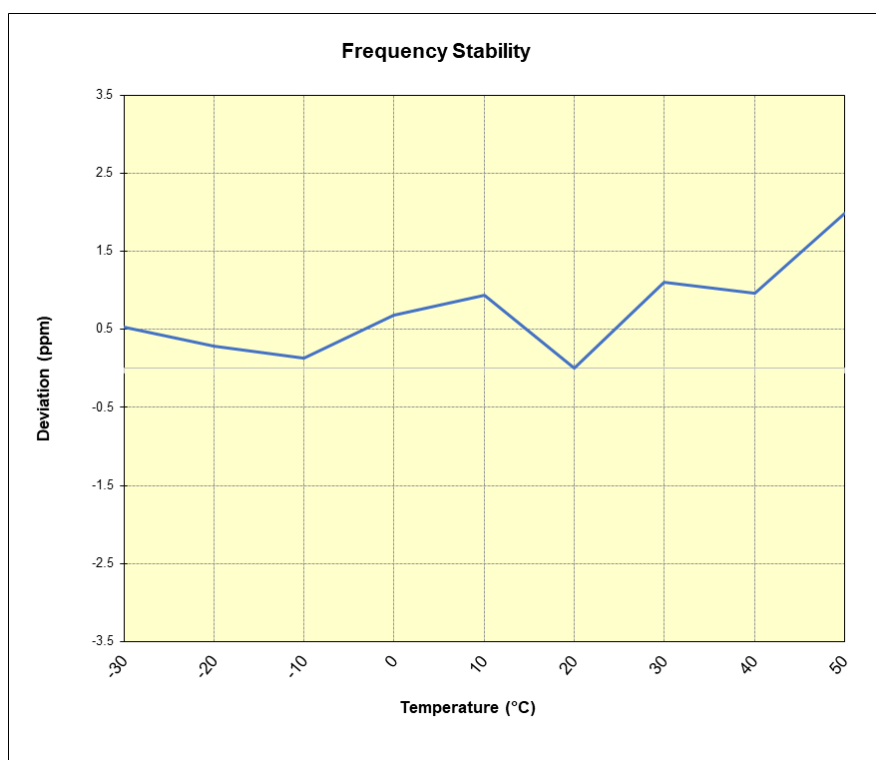
None

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GPRS Cell

GSM/GPRS Cellular					
		Operating Frequency (Hz):		836,600,000	
		Ref. Voltage (VDC):		3.86	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.86	- 30	836,599,778	-222	-0.0000265
		- 20	836,599,574	-426	-0.0000509
		- 10	836,599,441	-559	-0.0000668
		0	836,599,902	-98	-0.0000117
		+ 10	836,600,114	114	0.0000136
		+ 20 (Ref)	836,599,333	0	0.0000000
		+ 30	836,600,255	255	0.0000305
		+ 40	836,600,144	144	0.0000172
Battery Endpoint	3.17	+ 50	836,600,993	993	0.0001187
		+ 20	836,600,411	411	0.0000491

Table 7-48. GPRS Cell Frequency Stability Data



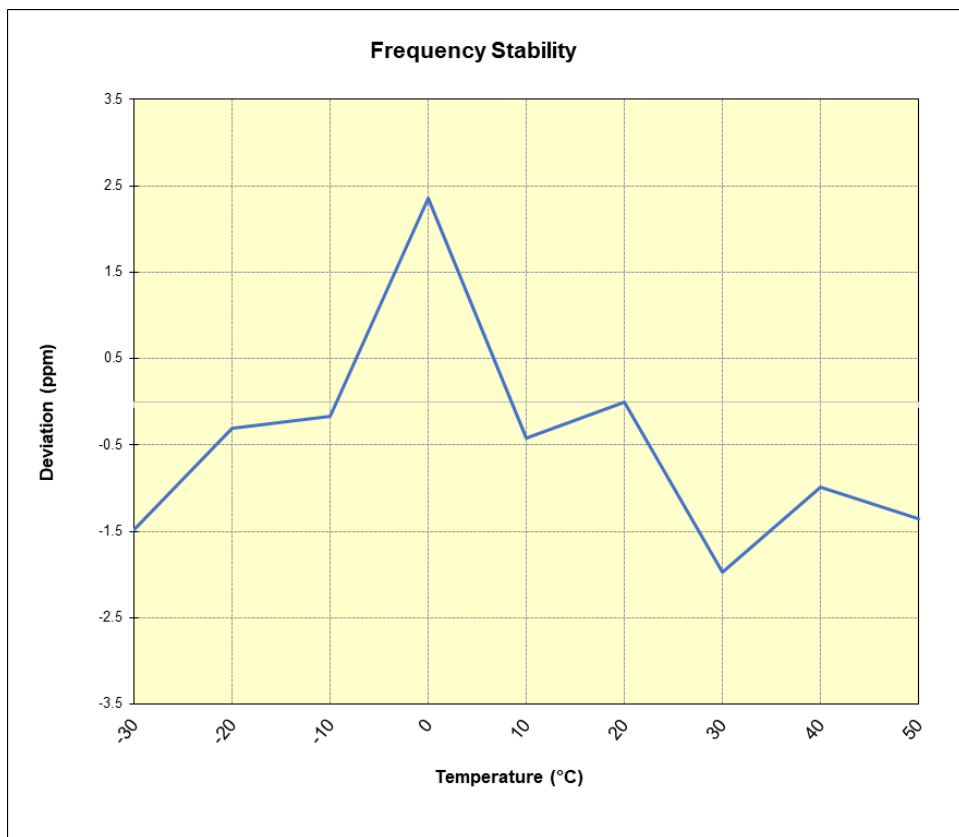
Plot 7-107. GPRS Cell Frequency Stability Chart

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WCDMA Cell

WCDMA Cellular					
		Operating Frequency (Hz):		836,600,000	
		Ref. Voltage (VDC):		3.863	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.863	- 30	836,598,014	-1,233	-0.0001474
		- 20	836,598,987	-260	-0.0000311
		- 10	836,599,109	-138	-0.0000165
		0	836,601,222	1,975	0.0002361
		+ 10	836,598,899	-348	-0.0000416
		+ 20 (Ref)	836,599,247	0	0.0000000
		+ 30	836,597,599	-1,648	-0.0001970
		+ 40	836,598,418	-829	-0.0000991
		+ 50	836,598,117	-1,130	-0.0001351
Battery Endpoint	3.174	+ 20	836,597,556	-1,691	-0.0002021

Table 7-49. WCDMA Cell Frequency Stability Data



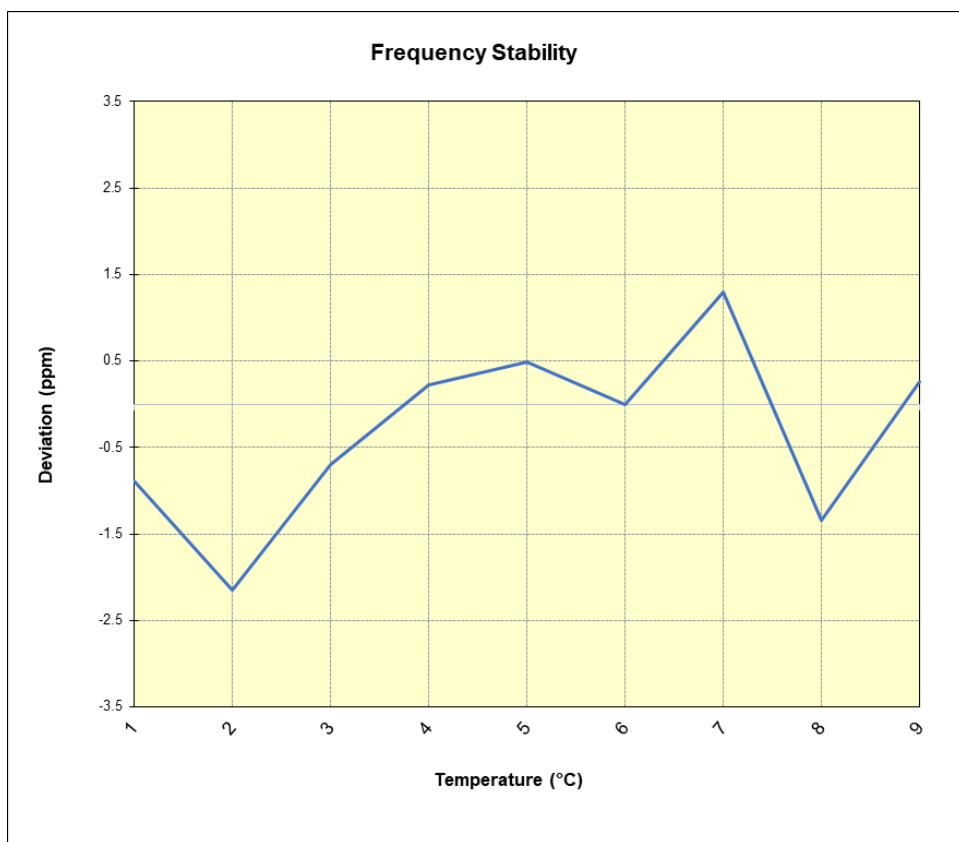
Plot 7-108. WCDMA Cell Frequency Stability Chart

FCC ID: A3LSMS936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 26/5

LTE Band 26/5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		3.863	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.863	- 30	836,702,288	-746	-0.0000892
		- 20	836,701,238	-1,796	-0.0002147
		- 10	836,702,448	-586	-0.0000700
		0	836,703,217	183	0.0000219
		+ 10	836,703,446	412	0.0000492
		+ 20 (Ref)	836,703,034	0	0.0000000
		+ 30	836,704,118	1,084	0.0001296
		+ 40	836,701,908	-1,126	-0.0001346
Battery Endpoint	3.174	+ 50	836,703,255	221	0.0000264
		+ 20	836,703,211	177	0.0000212

Table 7-50. LTE Band 26/5 Frequency Stability Data



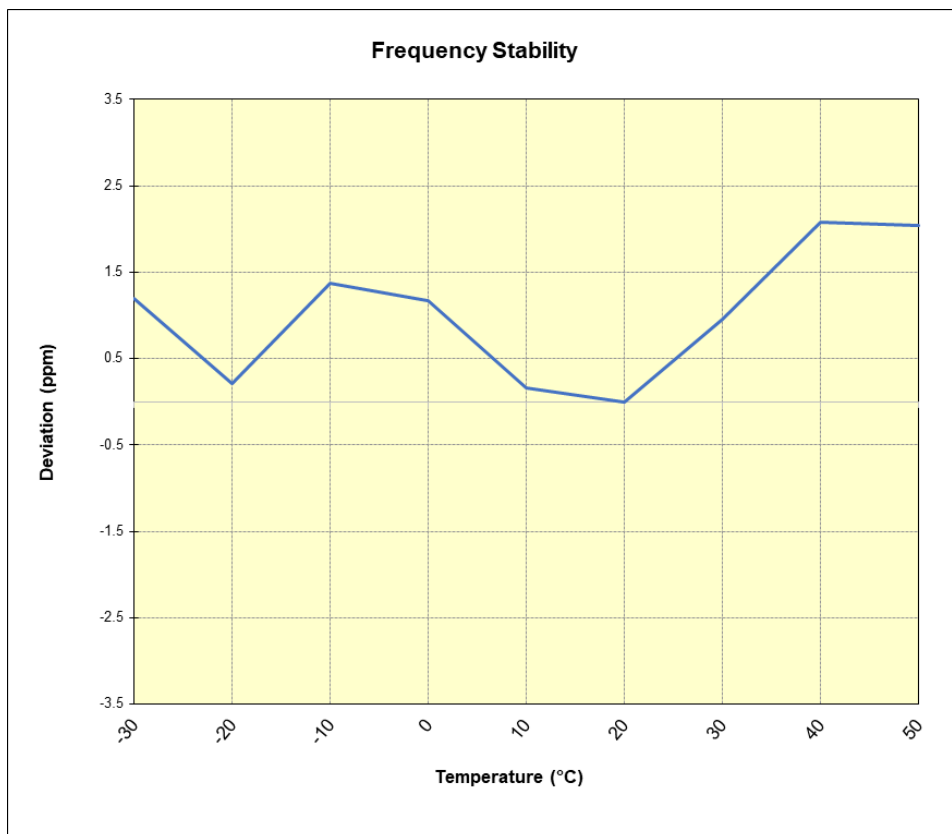
Plot 7-109. LTE Band 26/5 Frequency Stability Chart

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NR Band n26/5

NR Band n26/5					
		Operating Frequency (Hz):		836,500,000	
		Ref. Voltage (VDC):		3.863	
		Deviation Limit:		± 0.00025% or 2.5 ppm	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.863	- 30	836,592,307	1,000	0.0001195
		- 20	836,591,489	182	0.0000218
		- 10	836,592,456	1,149	0.0001373
		0	836,592,282	975	0.0001165
		+ 10	836,591,444	137	0.0000164
		+ 20 (Ref)	836,591,307	0	0.0000000
		+ 30	836,592,111	804	0.0000961
		+ 40	836,593,049	1,742	0.0002082
		+ 50	836,593,011	1,704	0.0002037
Battery Endpoint	3.174	+ 20	836,591,428	121	0.0000145

Table 7-51. NR Band n26/5 Frequency Stability Data



Plot 7-110. NR Band n26/5 Frequency Stability Chart

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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: A3LSMS936U** complies with all the requirements of Part 22 of the FCC rules.

FCC ID: A3LSMS936U	PART 22 MEASUREMENT REPORT		Approved by: Technical Manager
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