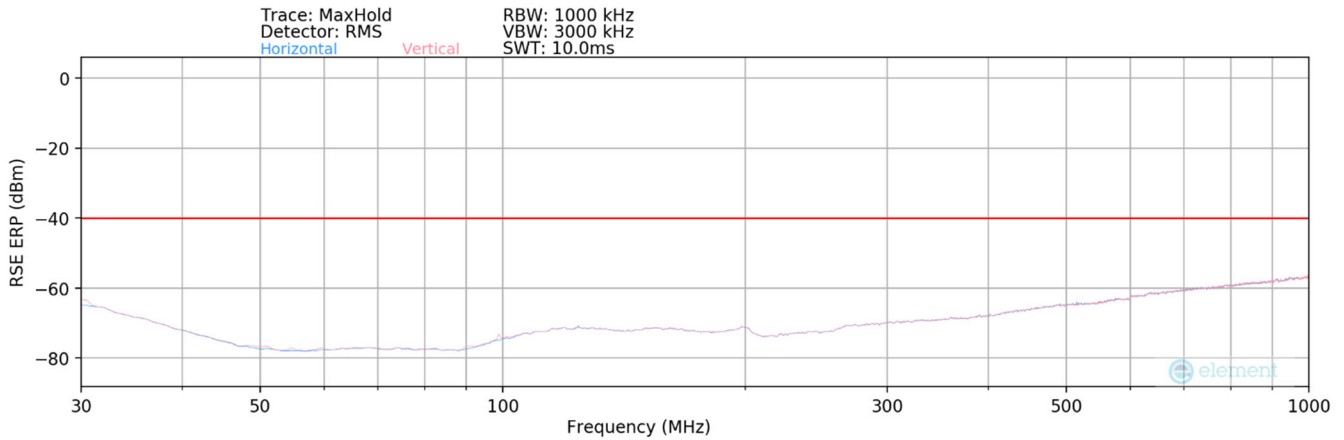
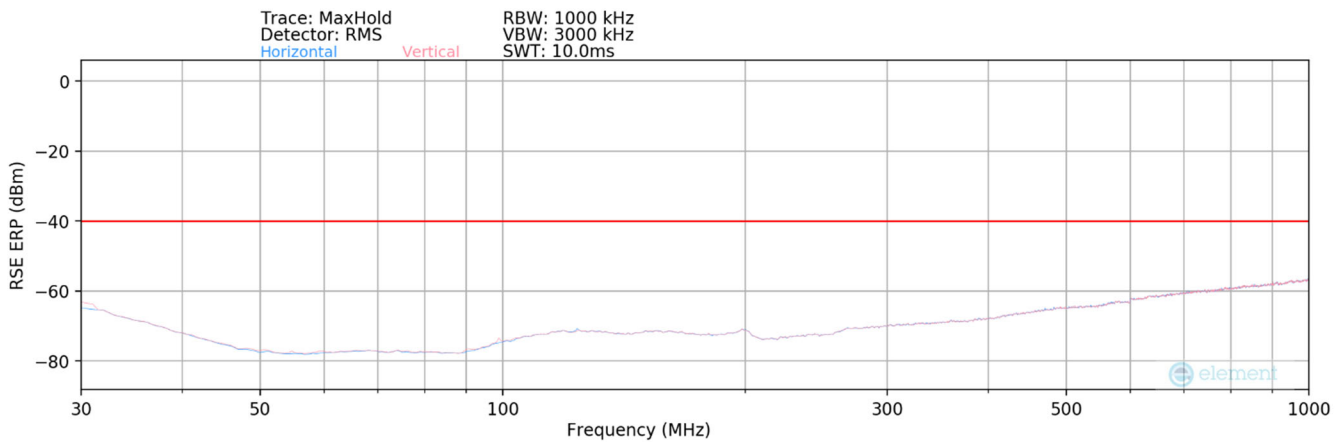


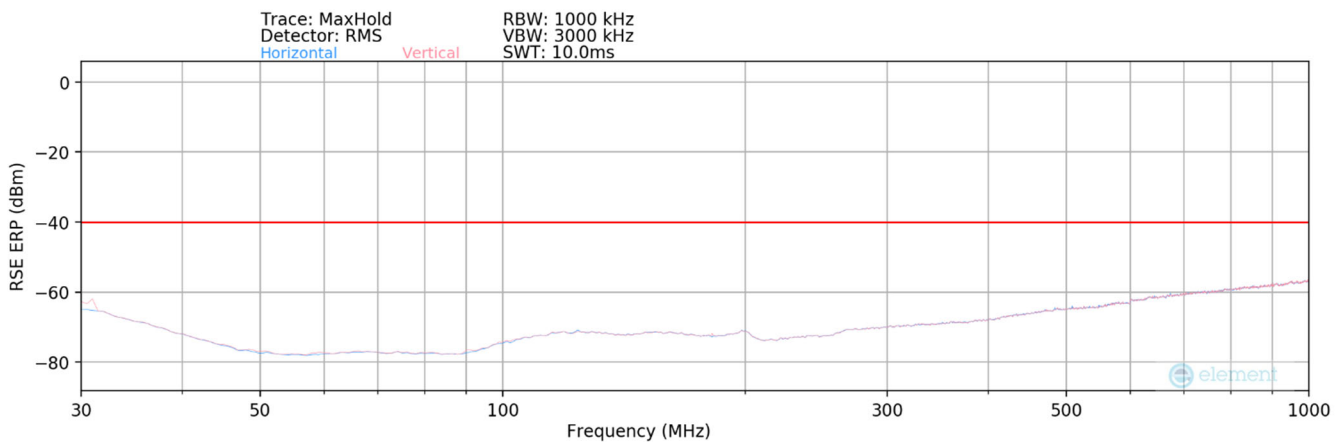
ULCA LB48



Plot 7-150. Radiated Spurious Plot 30MHz-1GHz (ULCA LB48 – Low Channel)



Plot 7-151. Radiated Spurious Plot 30MHz-1GHz (ULCA LB48 – Mid Channel)



Plot 7-152. Radiated Spurious Plot 30MHz-1GHz (ULCA LB48 – High Channel)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 112 of 143

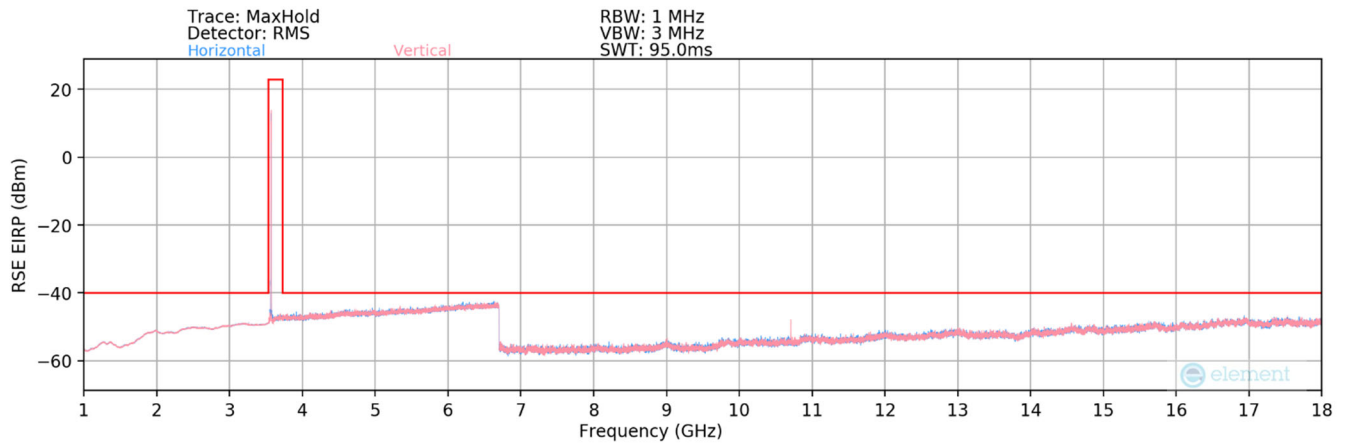


PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3560.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3579.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

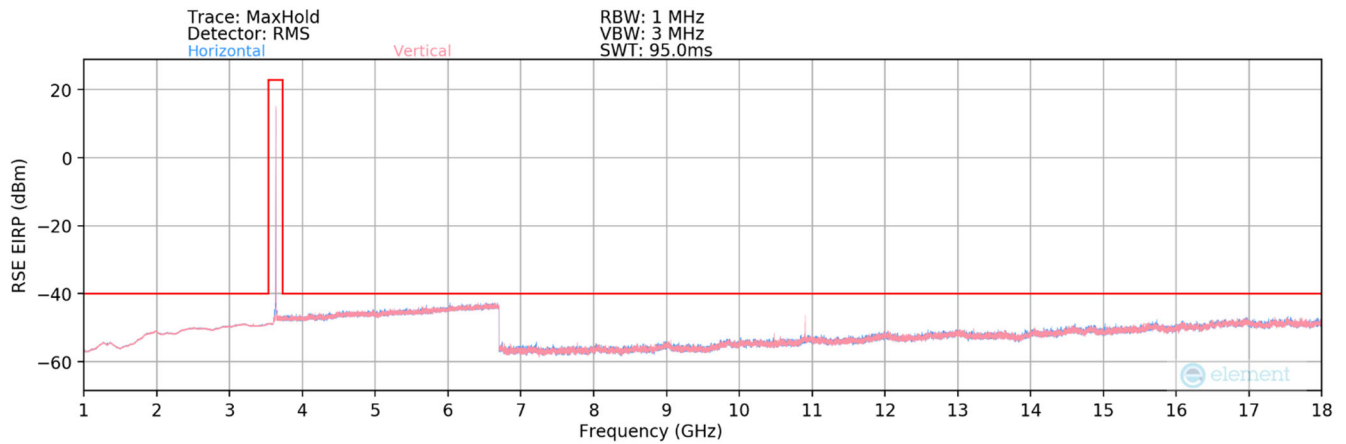
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
110.57	V	-	-	-81.20	19.59	45.39	-52.02	-40.00	-12.02
283.41	V	-	-	-81.06	21.07	47.01	-50.40	-40.00	-10.40
479.40	V	-	-	-81.13	25.44	51.31	-46.09	-40.00	-6.09

Table 7-21. Radiated Spurious Data 30Mhz-1GHz (ULCA LB48 – Low Channel)

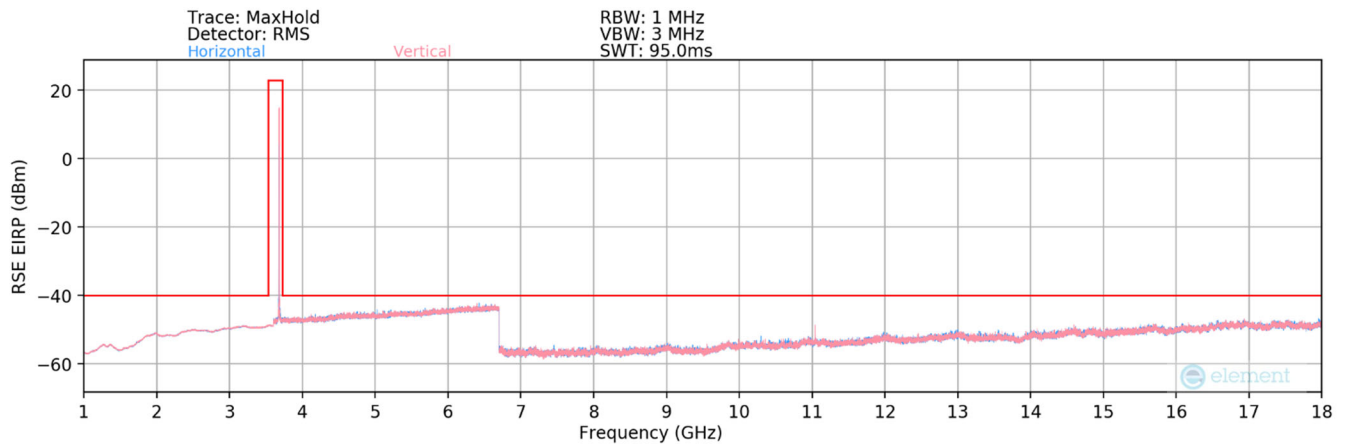
FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 113 of 143



Plot 7-153. Radiated Spurious Plot 1-18GHz (ULCA LB48 – Low Channel)

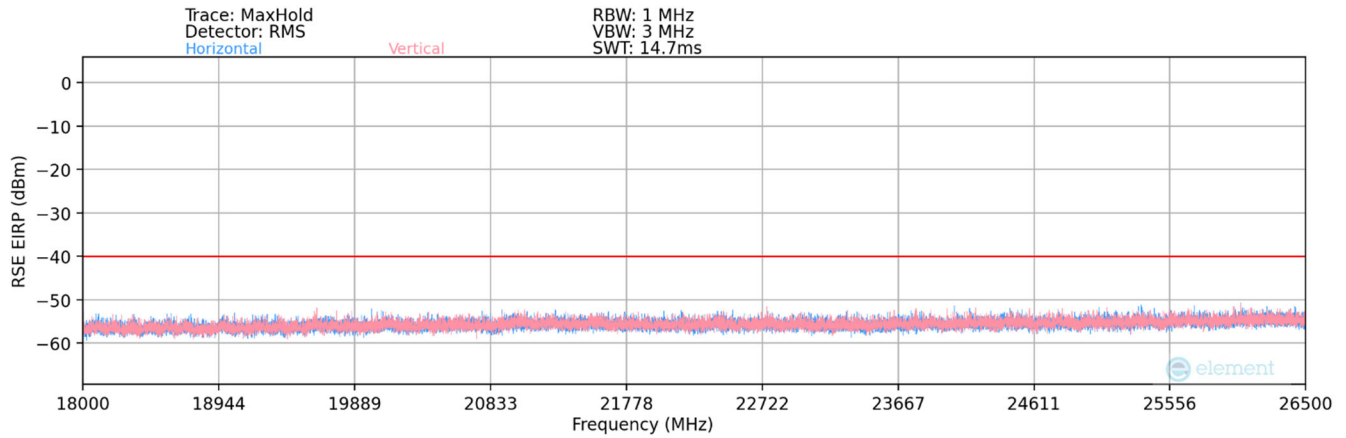


Plot 7-154. Radiated Spurious Plot 1-18GHz (ULCA LB48 – Mid Channel)

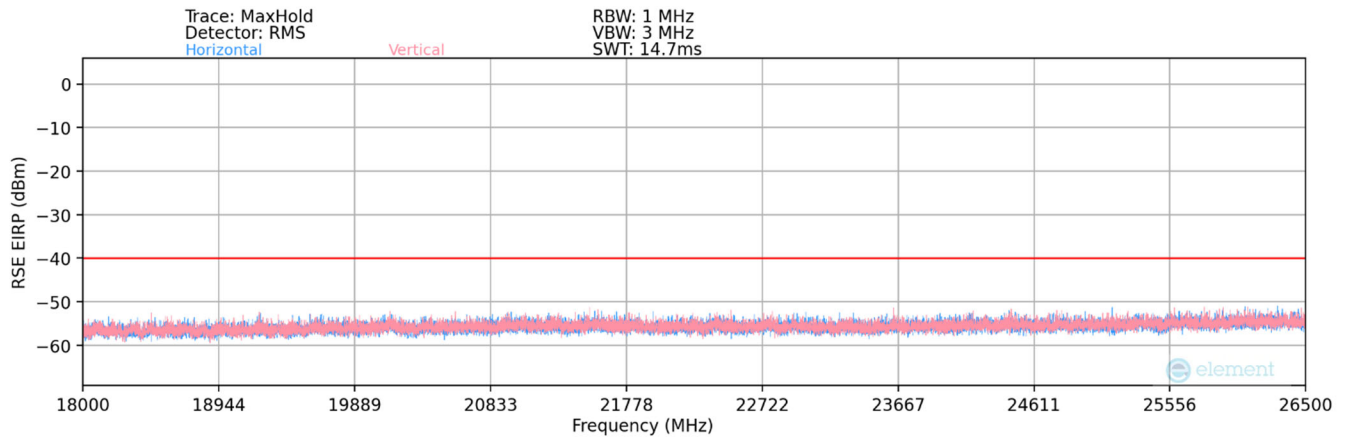


Plot 7-155. Radiated Spurious Plot 1-18GHz (ULCA LB48 – High Channel)

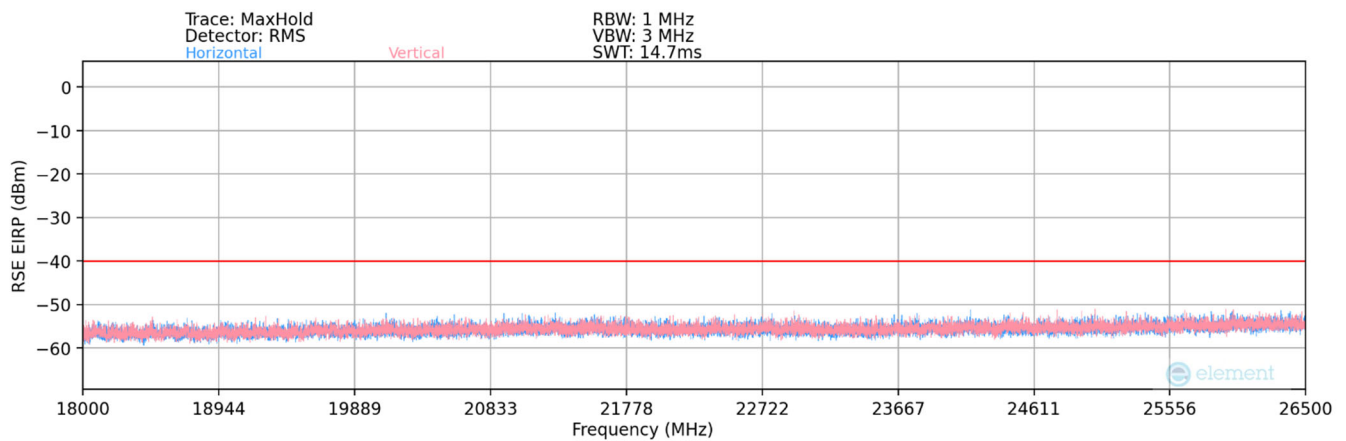
FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 114 of 143



Plot 7-156. Radiated Spurious Plot 18-26.5GHz (ULCA LB48 – Low Channel)

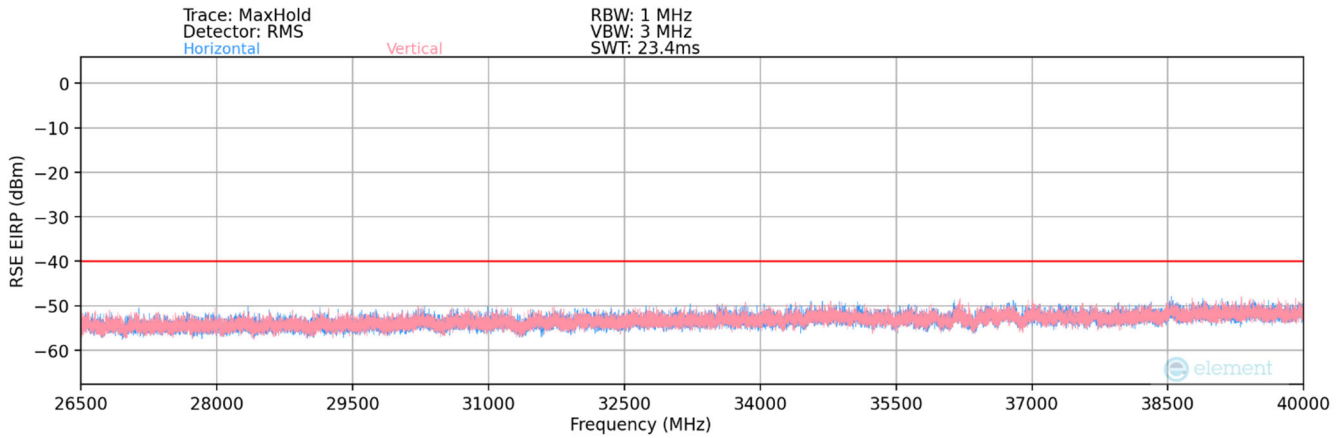


Plot 7-157. Radiated Spurious Plot 18-26.5GHz (ULCA LB48 – Mid Channel)

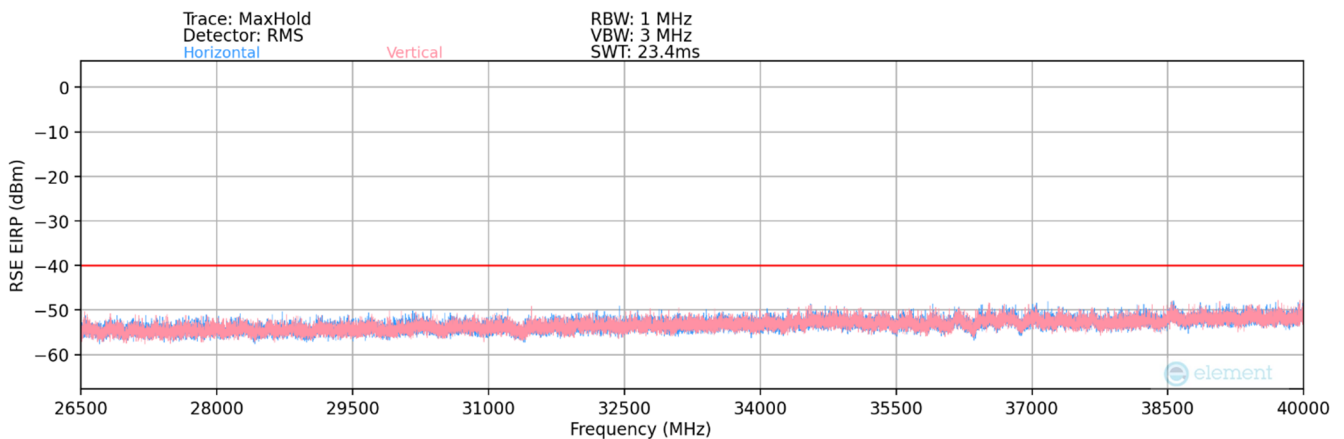


Plot 7-158. Radiated Spurious Plot 18-26.5GHz (ULCA LB48 – High Channel)

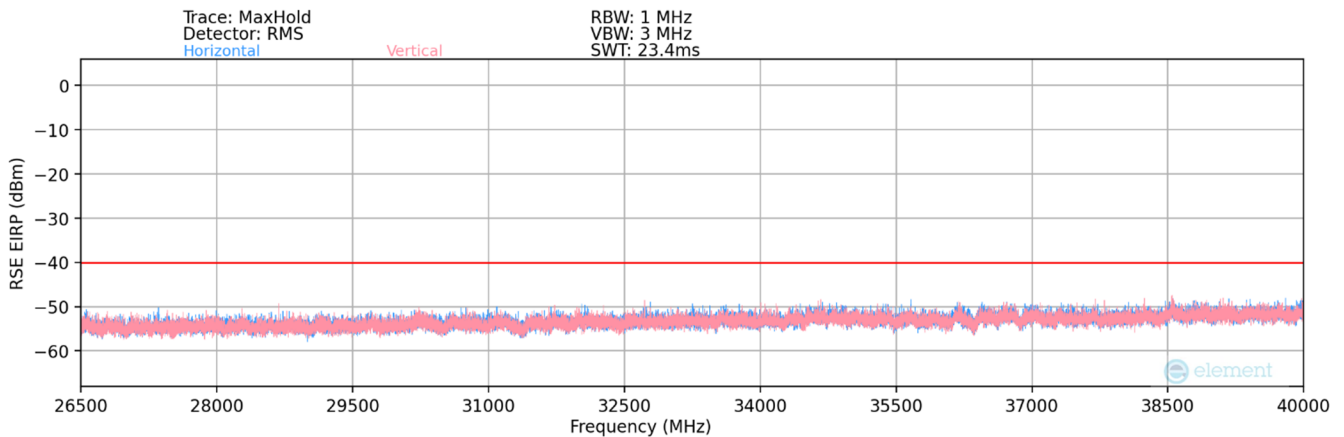
FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 115 of 143



Plot 7-159. Radiated Spurious Plot 26.5-40GHz (ULCA LB48 – Low Channel)



Plot 7-160. Radiated Spurious Plot 26.5-40GHz (ULCA LB48 – Mid Channel)



Plot 7-161. Radiated Spurious Plot 26.5-40GHz (ULCA LB48 – High Channel)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 116 of 143

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3560.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3579.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

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]
7120.00	V	-	-	-76.67	8.09	38.42	-56.84	-40.00	-16.84
10680.00	V	133	341	-71.09	12.21	48.12	-47.14	-40.00	-7.14
14240.00	V	-	-	-78.95	14.87	42.92	-52.34	-40.00	-12.34
17800.00	V	-	-	-79.20	17.58	45.38	-49.87	-40.00	-9.87
21360.00	V	-	-	-56.83	3.81	53.98	-50.82	-40.00	-10.82
24920.00	V	-	-	-56.73	4.24	54.51	-50.29	-40.00	-10.29
28480.00	V	-	-	-58.88	5.38	53.50	-51.30	-40.00	-11.30

Table 7-22. Radiated Spurious Data (ULCA LB48 – Low Channel - Ant G)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7250.00	V	-	-	-76.29	7.59	38.30	-56.96	-40.00	-16.96
10875.00	V	185	12	-72.23	11.86	46.63	-48.62	-40.00	-8.62
14500.00	V	-	-	-78.49	15.32	43.83	-51.43	-40.00	-11.43
18125.00	V	-	-	-57.42	1.42	51.00	-53.80	-40.00	-13.80
21750.00	V	-	-	-58.21	3.83	52.61	-52.19	-40.00	-12.19
25375.00	V	-	-	-57.35	4.45	54.10	-50.70	-40.00	-10.70

Table 7-23. Radiated Spurious Data (ULCA LB48 – Mid Channel - Ant G)

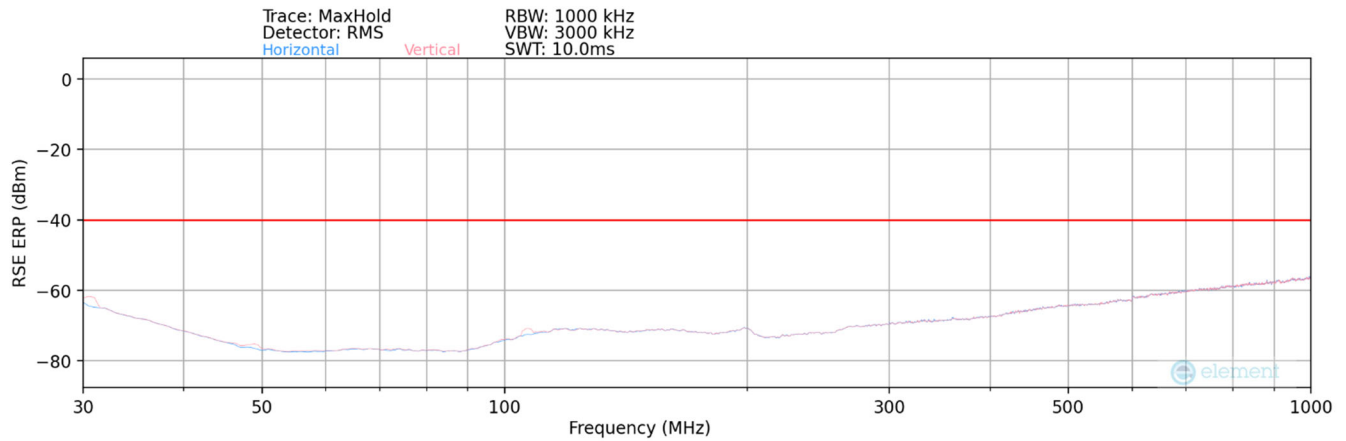
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3690.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3670.2
SCC RB / Offset:	1 / 99
Modulation Signal:	QPSK

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]
7380.00	V	-	-	-77.01	8.05	38.04	-57.22	-40.00	-17.22
11070.00	V	180	9	-72.00	12.18	47.18	-48.08	-40.00	-8.08
14760.00	V	-	-	-79.12	15.89	43.77	-51.49	-40.00	-11.49
18450.00	V	-	-	-57.84	1.74	50.90	-53.90	-40.00	-13.90
22140.00	V	-	-	-56.36	3.71	54.35	-50.45	-40.00	-10.45
25830.00	V	-	-	-57.64	4.53	53.89	-50.91	-40.00	-10.91
29520.00	V	-	-	-58.98	5.98	54.00	-50.80	-40.00	-10.80

Table 7-24. Radiated Spurious Data (ULCA LB48 – High Channel - Ant G)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 117 of 143

NR Band n48 – Ant G



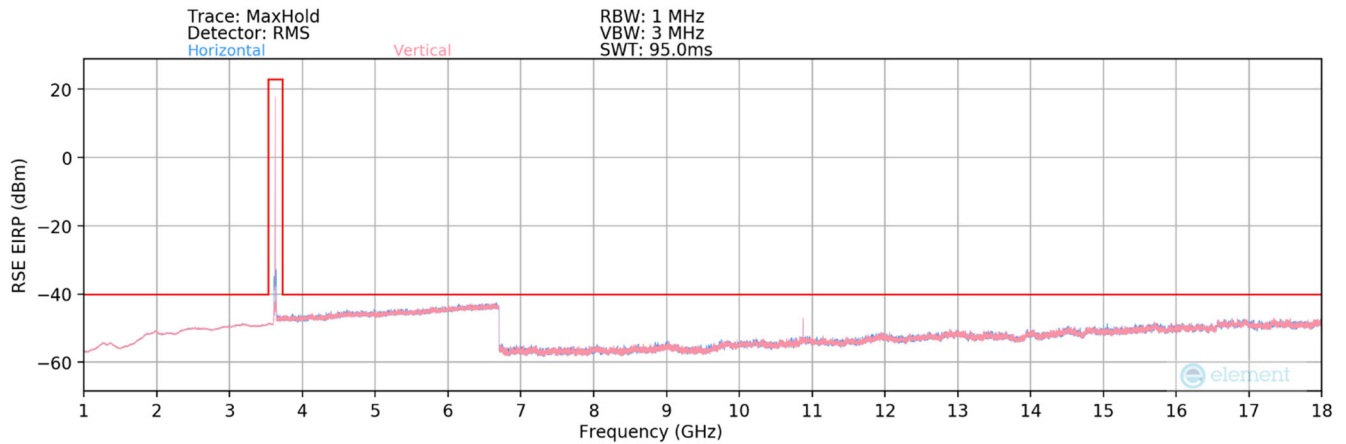
Plot 7-162. Radiated Spurious Plot 30MHz-1GHz (NR Band n48)

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

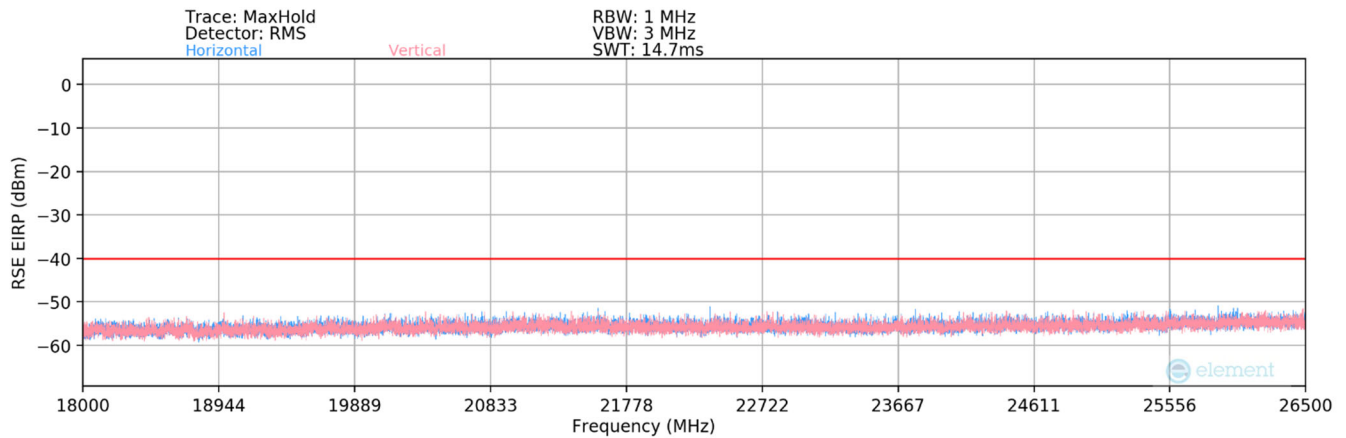
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
48.80	V	337	219	-97.16	15.26	25.10	-72.31	-40.00	-32.31
106.90	V	150	289	-98.26	19.11	27.85	-69.56	-40.00	-29.56

Table 7-25. Radiated Spurious Data 30MHz-1GHz (NR Band n48)

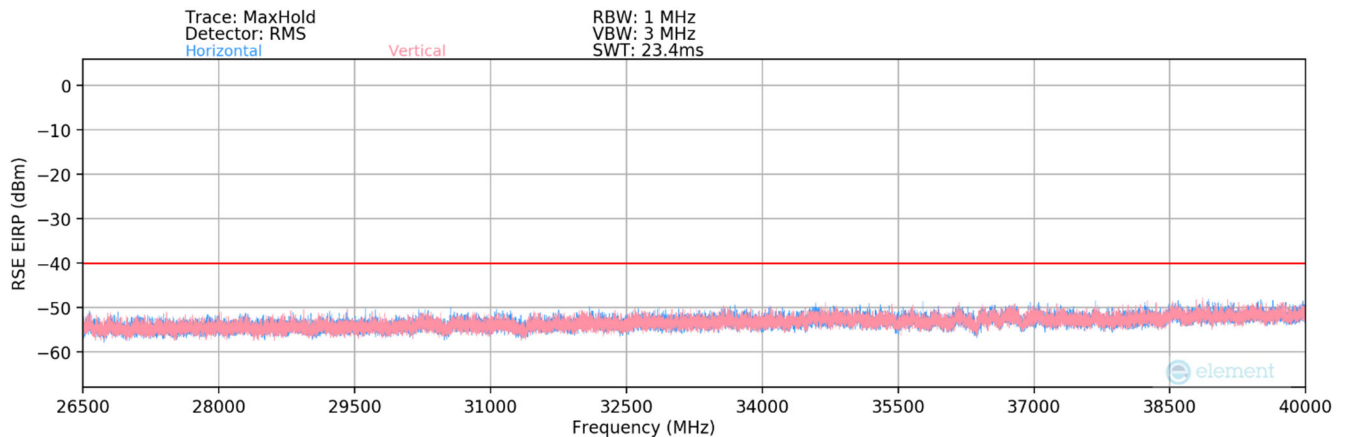
FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 118 of 143



Plot 7-163. Radiated Spurious Plot 1-18GHz (NR Band n48)



Plot 7-164. Radiated Spurious Plot 18-26.5GHz (NR Band n48)



Plot 7-165. Radiated Spurious Plot 26.5-40GHz (NR Band n48)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 119 of 143



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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7140.00	V	-	-	-77.19	8.26	38.07	-57.19	-40.00	-17.19
10710.00	V	268	197	-71.32	12.00	47.68	-47.58	-40.00	-7.58
14280.00	V	-	-	-79.48	15.04	42.56	-52.69	-40.00	-12.69
17850.00	V	-	-	-80.30	17.84	44.54	-50.72	-40.00	-10.72
21420.00	V	-	-	-57.85	3.84	52.99	-51.81	-40.00	-11.81
24990.00	V	-	-	-57.95	4.37	53.42	-51.38	-40.00	-11.38
28560.00	V	-	-	-58.42	5.31	53.89	-50.91	-40.00	-10.91
32130.00	V	-	-	-57.84	7.37	56.53	-48.27	-40.00	-8.27

Table 7-26. Radiated Spurious Data (NR Band n48 – Low Channel – Ant G)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7250.00	V	-	-	-77.02	7.59	37.57	-57.69	-40.00	-17.69
10875.00	V	249	193	-70.09	11.86	48.77	-46.48	-40.00	-6.48
14500.00	V	-	-	-79.63	15.32	42.69	-52.57	-40.00	-12.57
18125.00	V	-	-	-57.45	1.42	50.97	-53.83	-40.00	-13.83
21750.00	V	-	-	-58.27	3.83	52.56	-52.24	-40.00	-12.24
25375.00	V	-	-	-57.61	4.45	53.84	-50.96	-40.00	-10.96
29000.00	V	-	-	-58.36	5.53	54.17	-50.63	-40.00	-10.63
32625.00	V	-	-	-57.75	6.85	56.10	-48.70	-40.00	-8.70

Table 7-27. Radiated Spurious Data (NR Band n48 – Mid Channel – Ant G)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
7360.00	V	135	234	-75.91	7.93	39.02	-56.24	-40.00	-16.24
11040.00	V	343	268	-71.26	12.09	47.83	-47.43	-40.00	-7.43
14720.00	V	-	-	-80.05	15.58	42.53	-52.73	-40.00	-12.73
18400.00	V	-	-	-57.48	1.43	50.95	-53.85	-40.00	-13.85
22080.00	V	-	-	-57.33	3.75	53.42	-51.38	-40.00	-11.38
25760.00	V	-	-	-57.60	4.60	54.00	-50.80	-40.00	-10.80
29440.00	V	-	-	-58.41	5.88	54.47	-50.33	-40.00	-10.33
33120.00	V	-	-	-57.84	7.36	56.52	-48.28	-40.00	-8.28

Table 7-28. Radiated Spurious Data (NR Band n48 – High Channel – Ant G)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 120 of 143



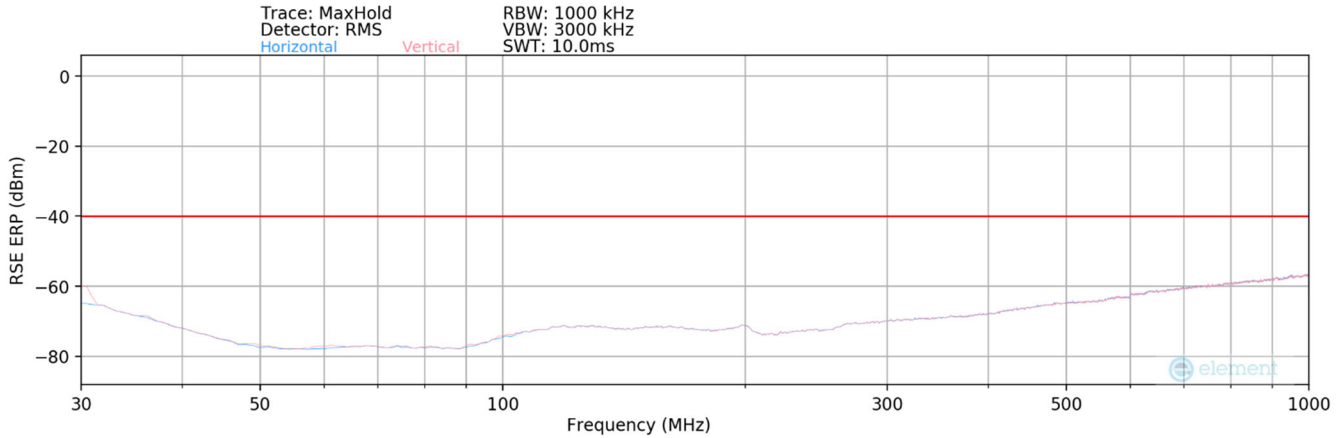
Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1/53
Detector / Trace Mode:	RMS / Max Hold
RBW / VBW:	1MHz / 3MHz

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]
7250.00	V	-	-	-77.07	7.59	37.52	-57.74	-40.00	-17.74
10875.00	V	243	221	-70.94	11.86	47.92	-47.33	-40.00	-7.33
14500.00	V	-	-	-80.04	15.32	42.28	-52.98	-40.00	-12.98
18125.00	V	-	-	-57.60	1.42	50.82	-53.98	-40.00	-13.98
21750.00	V	-	-	-58.52	3.83	52.31	-52.49	-40.00	-12.49
25375.00	V	-	-	-57.74	4.45	53.71	-51.09	-40.00	-11.09
29000.00	V	-	-	-58.21	5.53	54.32	-50.48	-40.00	-10.48
32625.00	V	-	-	-56.91	6.85	56.94	-47.86	-40.00	-7.86

Table 7-29. Radiated Spurious Data with WCP (NR Band n48 – Ant G)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 121 of 143

NR Band n48 – Ant C



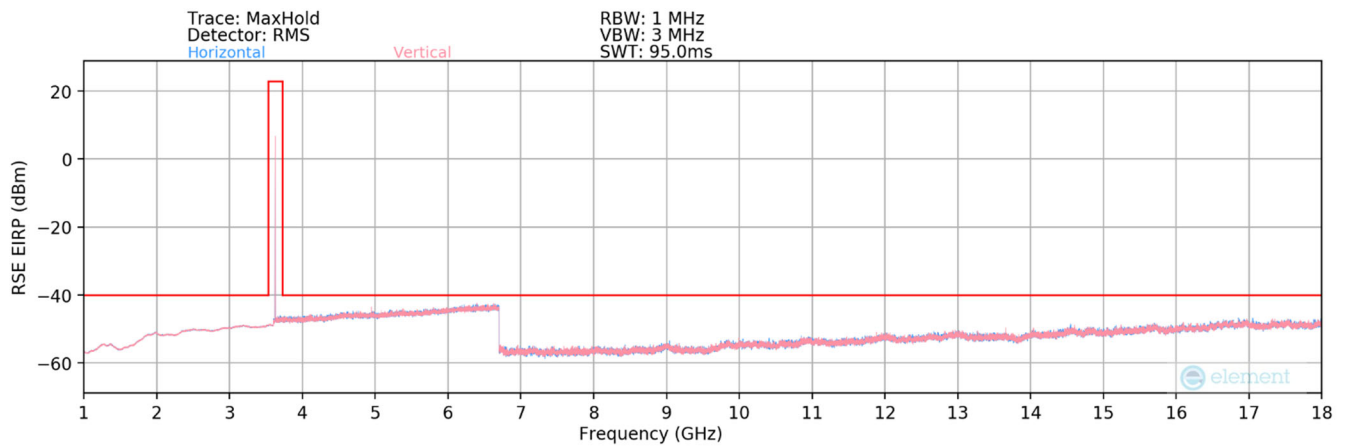
Plot 7-166. Radiated Spurious Plot 30MHz-1GHz (NR Band n48 – Ant C)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	BPSK
RB Config (Size / Offset):	1 / 53
Detector / Trace Mode:	RMS / Max Hold
RBW / VBW:	1MHz / 3MHz

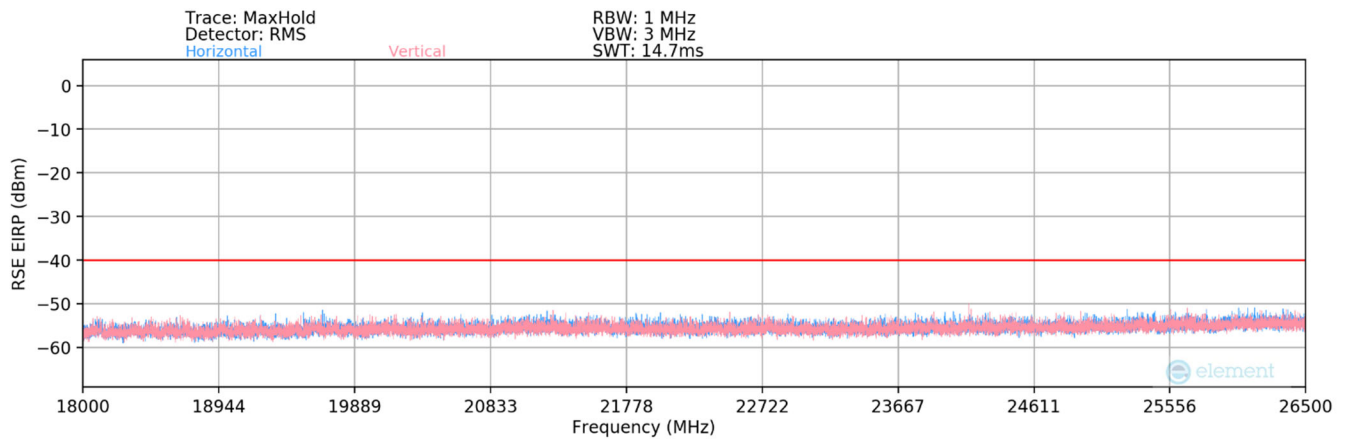
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
634.00	V	-	-	-96.93	28.23	38.30	-59.11	-40.00	-19.11

Table 7-30. Radiated Spurious Data 30MHz-1GHz (NR Band n48 – Mid Channel – Ant C)

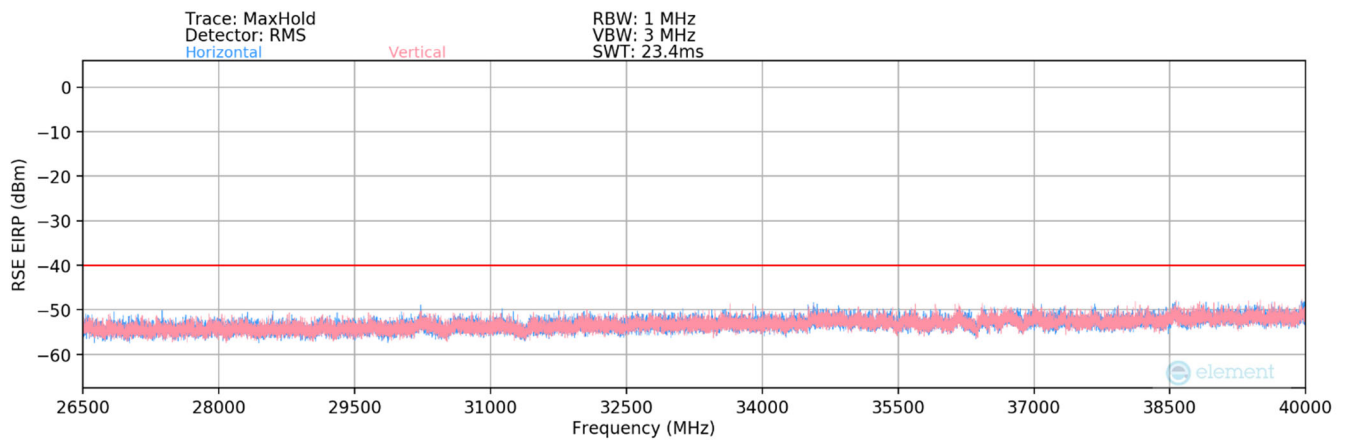
FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 122 of 143



Plot 7-167. Radiated Spurious Plot 1-18GHz (NR Band n48 – Ant C)



Plot 7-168. Radiated Spurious Plot 18-26.5GHz (NR Band n48 – Ant C)



Plot 7-169. Radiated Spurious Plot 26.5-40GHz (NR Band n48 – Ant C)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 123 of 143



Bandwidth (MHz):	100
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 136
Detector / Trace Mode:	RMS / Max Hold
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]
7140.00	V	-	-	-77.31	8.26	37.95	-57.31	-40.00	-17.31
10710.00	V	-	-	-79.56	12.00	39.44	-55.82	-40.00	-15.82
14280.00	V	-	-	-79.82	15.04	42.22	-53.03	-40.00	-13.03
17850.00	V	-	-	-80.25	17.84	44.59	-50.67	-40.00	-10.67
21420.00	V	-	-	-58.64	3.84	52.20	-52.60	-40.00	-12.60
24990.00	V	-	-	-59.14	4.37	52.23	-52.57	-40.00	-12.57
28560.00	V	-	-	-58.88	5.31	53.43	-51.37	-40.00	-11.37
32130.00	V	-	-	-58.83	7.37	55.54	-49.26	-40.00	-9.26

Table 7-31. Radiated Spurious Data (NR Band n48 – Low Channel – Ant C)

Bandwidth (MHz):	100
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 136
Detector / Trace Mode:	RMS / Max Hold
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]
7250.00	V	-	-	-77.02	7.59	37.57	-57.69	-40.00	-17.69
10875.00	V	249	193	-70.09	11.86	48.77	-46.48	-40.00	-6.48
14500.00	V	-	-	-79.63	15.32	42.69	-52.57	-40.00	-12.57
18125.00	V	-	-	-56.82	1.42	51.60	-53.20	-40.00	-13.20
21750.00	V	-	-	-58.15	3.83	52.68	-52.12	-40.00	-12.12
25375.00	V	-	-	-57.95	4.45	53.50	-51.30	-40.00	-11.30
29000.00	V	-	-	-57.80	5.53	54.73	-50.07	-40.00	-10.07
32625.00	V	-	-	-57.87	6.85	55.98	-48.82	-40.00	-8.82

Table 7-32. Radiated Spurious Data (NR Band n48 – Mid Channel – Ant C)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 124 of 143



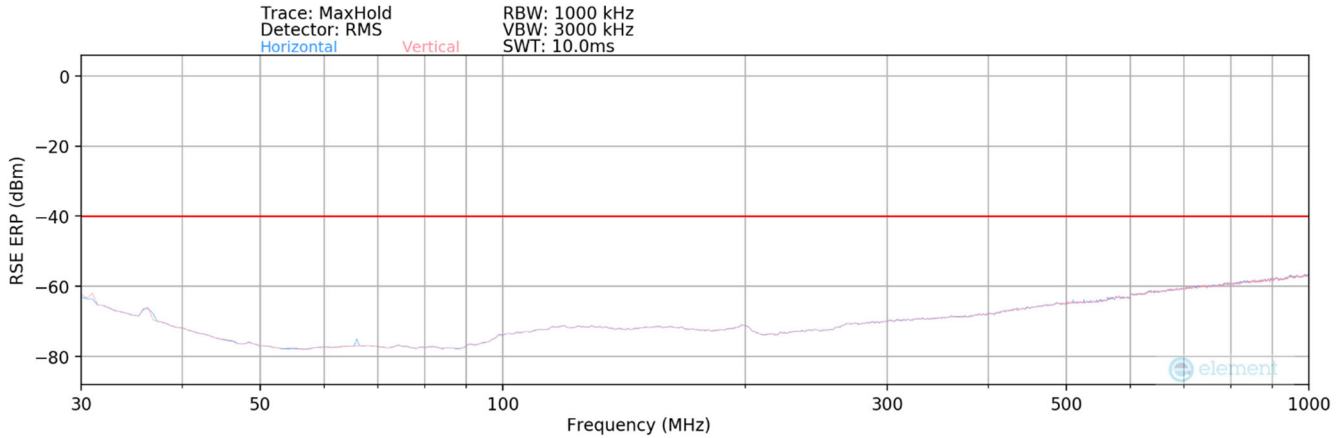
Bandwidth (MHz):	100
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 136
Detector / Trace Mode:	RMS / Max Hold
RBW / VBW:	1MHz / 3MHz

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]
7360.00	V	135	234	-75.91	7.93	39.02	-56.24	-40.00	-16.24
11040.00	V	343	268	-71.26	12.09	47.83	-47.43	-40.00	-7.43
14720.00	V	-	-	-80.05	15.58	42.53	-52.73	-40.00	-12.73
18400.00	V	-	-	-57.73	1.43	50.70	-54.10	-40.00	-14.10
22080.00	V	-	-	-58.60	3.75	52.15	-52.65	-40.00	-12.65
25760.00	V	-	-	-58.65	4.60	52.95	-51.85	-40.00	-11.85
29440.00	V	-	-	-58.69	5.88	54.19	-50.61	-40.00	-10.61
33120.00	V	-	-	-58.48	7.36	55.88	-48.92	-40.00	-8.92

Table 7-33. Radiated Spurious Data (NR Band n48 – High Channel – Ant C)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 125 of 143

NR Band n48 – Ant I



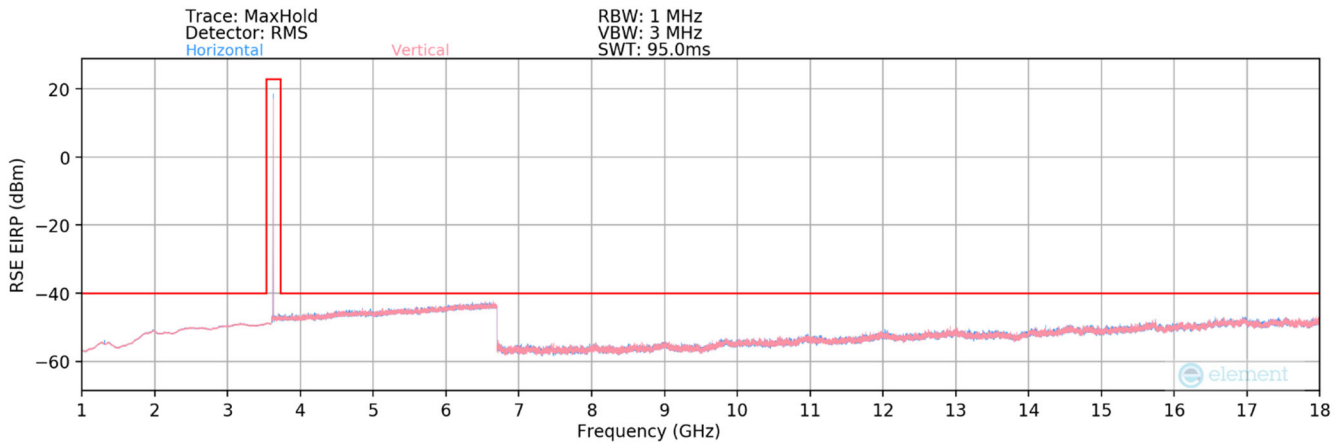
Plot 7-170. Radiated Spurious Plot 30MHz-1GHz (NR Band n48 – Ant3)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	BPSK
RB Config (Size / Offset):	1 / 53
Detector / Trace Mode:	RMS / Max Hold
RBW / VBW:	1MHz / 3MHz

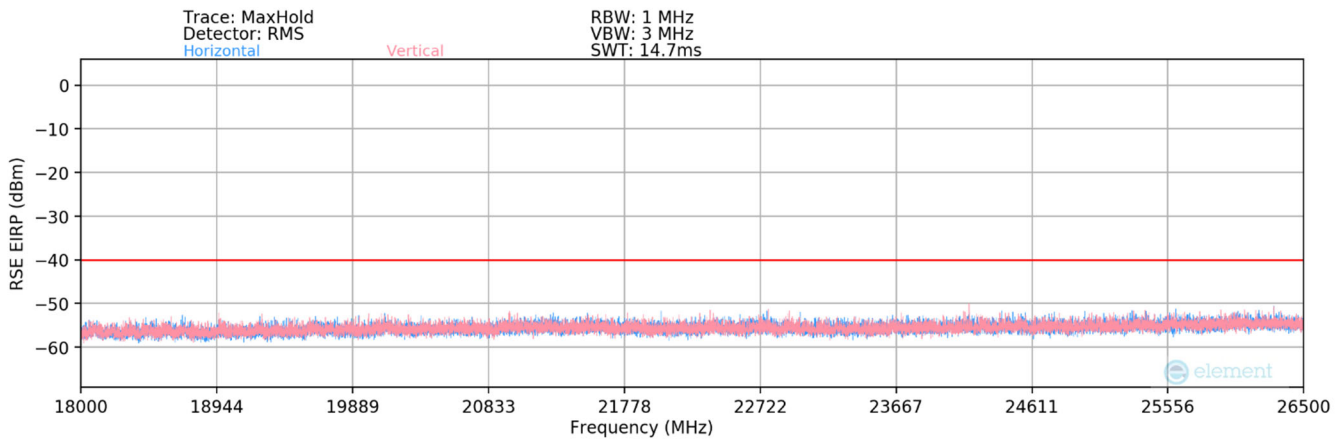
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
32.00	V	-	-	-100.44	26.43	32.99	-64.41	-40.00	-24.41
38.00	V	-	-	-100.26	21.76	28.50	-68.91	-40.00	-28.91
67.00	H	-	-	-99.70	14.71	22.01	-75.40	-40.00	-35.40
455.00	H	-	-	-96.40	24.88	35.48	-61.92	-40.00	-21.92

Table 7-34. Radiated Spurious Data 30MHz-1GHz (NR Band n48 – Mid Channel – Ant I)

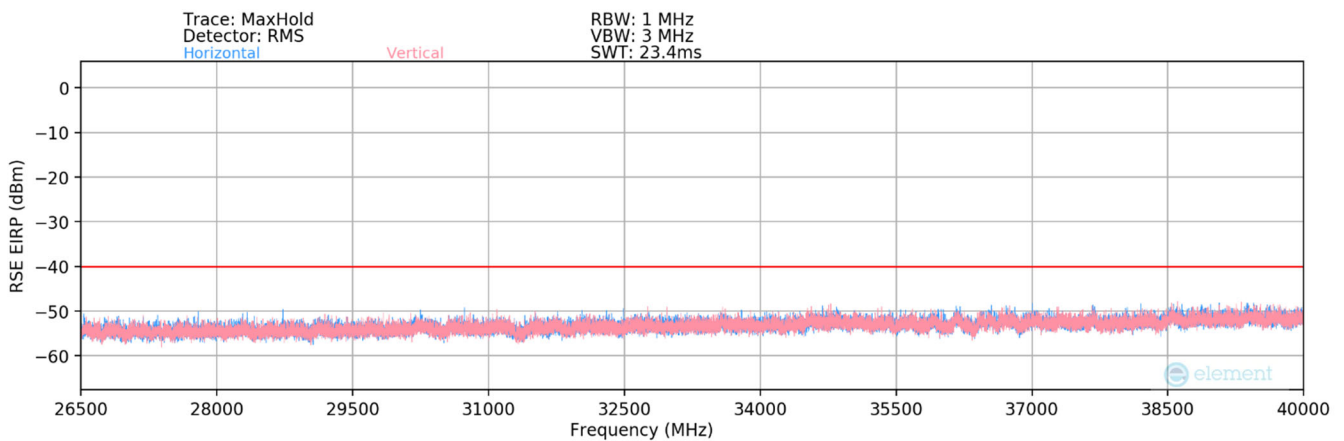
FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 126 of 143



Plot 7-171. Radiated Spurious Plot 1-18GHz (NR Band n48 – Ant I)



Plot 7-172. Radiated Spurious Plot 18-26.5GHz (NR Band n48 – Ant I)



Plot 7-173. Radiated Spurious Plot 26.5-40GHz (NR Band n48 – Ant I)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 127 of 143



Bandwidth (MHz):	100
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 136
Detector / Trace Mode:	RMS / Max Hold
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]
7140.00	H	-	-	-77.32	8.26	37.94	-57.32	-40.00	-17.32
10710.00	H	-	-	-79.59	12.00	39.41	-55.85	-40.00	-15.85
14280.00	H	-	-	-79.73	15.04	42.31	-52.94	-40.00	-12.94
17850.00	V	-	-	-80.02	17.84	44.82	-50.44	-40.00	-10.44
21420.00	V	-	-	-58.14	3.84	52.70	-52.10	-40.00	-12.10
24990.00	V	-	-	-58.68	4.37	52.69	-52.11	-40.00	-12.11
28560.00	V	-	-	-59.27	5.31	53.04	-51.76	-40.00	-11.76
32130.00	V	-	-	-58.80	7.37	55.57	-49.23	-40.00	-9.23

Table 7-35. Radiated Spurious Data (NR Band n48 – Low Channel – Ant I)

Bandwidth (MHz):	100
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 136
Detector / Trace Mode:	RMS / Max Hold
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]
7250.00	H	-	-	-76.82	7.59	37.77	-57.49	-40.00	-17.49
10875.00	H	-	-	-78.98	11.86	39.88	-55.37	-40.00	-15.37
14500.00	H	-	-	-79.97	15.32	42.35	-52.91	-40.00	-12.91
18125.00	V	-	-	-58.38	1.42	50.04	-54.76	-40.00	-14.76
21750.00	V	-	-	-59.66	3.83	51.17	-53.63	-40.00	-13.63
25375.00	V	-	-	-57.81	4.45	53.64	-51.16	-40.00	-11.16
29000.00	V	-	-	-58.24	5.53	54.29	-50.51	-40.00	-10.51
32625.00	V	-	-	-75.13	6.85	38.72	-66.08	-40.00	-26.08

Table 7-36. Radiated Spurious Data (NR Band n48 – Mid Channel – Ant I)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 128 of 143



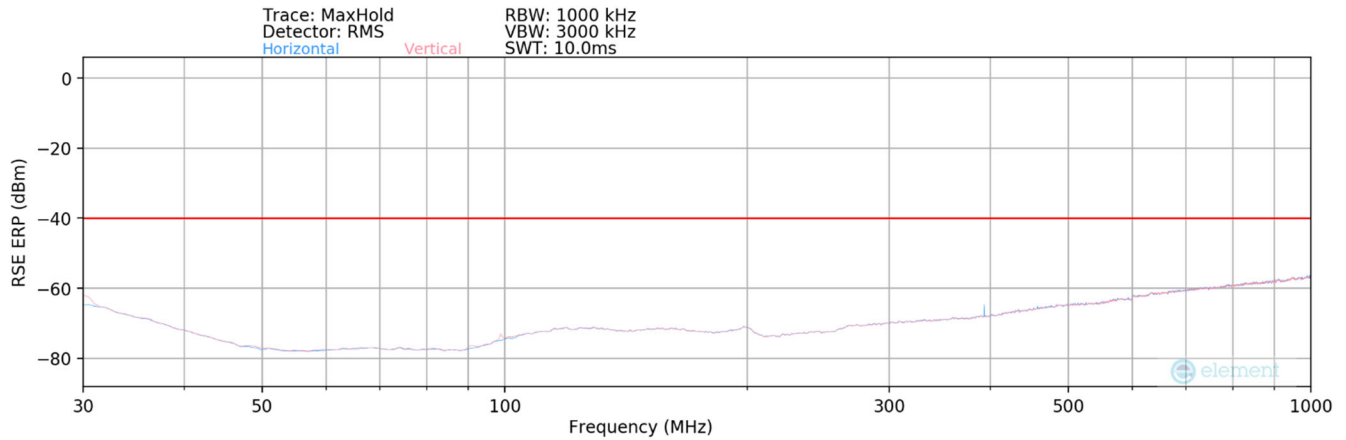
Bandwidth (MHz):	100
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 136
Detector / Trace Mode:	RMS / Max Hold
RBW / VBW:	1MHz / 3MHz

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]
7360.00	V	-	-	-77.65	7.93	37.28	-57.98	-40.00	-17.98
11040.00	V	-	-	-78.49	12.09	40.60	-54.66	-40.00	-14.66
14720.00	V	-	-	-80.43	15.58	42.15	-53.11	-40.00	-13.11
18400.00	V	-	-	-57.21	1.43	51.22	-53.58	-40.00	-13.58
22080.00	V	-	-	-58.67	3.75	52.08	-52.72	-40.00	-12.72
25760.00	V	-	-	-58.97	4.60	52.63	-52.17	-40.00	-12.17
29440.00	V	-	-	-58.02	5.88	54.86	-49.94	-40.00	-9.94
33120.00	V	-	-	-58.84	7.36	55.52	-49.28	-40.00	-9.28

Table 7-37. Radiated Spurious Data (NR Band n48 – High Channel – Ant I)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n48 – Ant D



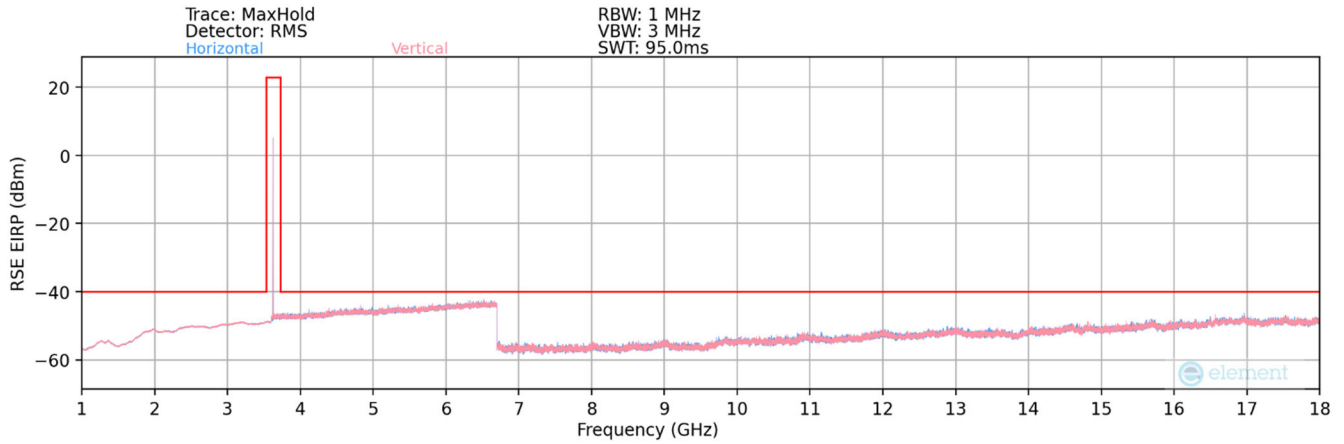
Plot 7-174. Radiated Spurious Plot 30MHz-1GHz (NR Band n48 – Ant D)

Bandwidth (MHz):	40
Frequency (MHz):	3625.0
Modulation Signal:	BPSK
RB Config (Size / Offset):	1 / 53
Detector / Trace Mode:	RMS / Max Hold
RBW / VBW:	1MHz / 3MHz

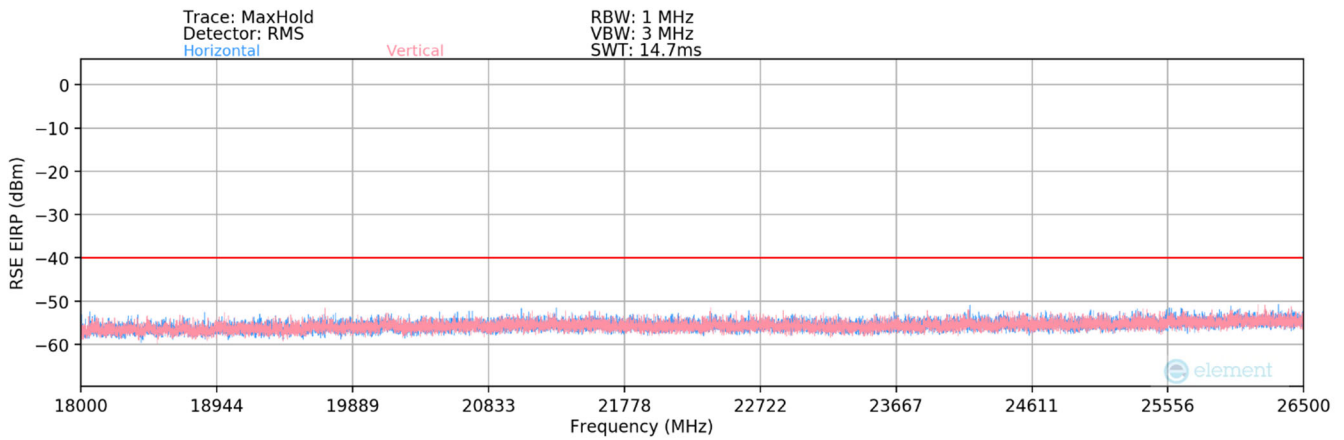
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
99.00	V	175	18	-97.61	16.96	26.35	-71.06	-40.00	-31.06
392.00	H	-	-	-98.26	23.16	31.90	-65.51	-40.00	-25.51
410.00	H	-	-	-98.40	23.62	32.22	-65.19	-40.00	-25.19

Table 7-38. Radiated Spurious Data 30MHz-1GHz (NR Band n48 – Mid Channel – Ant D)

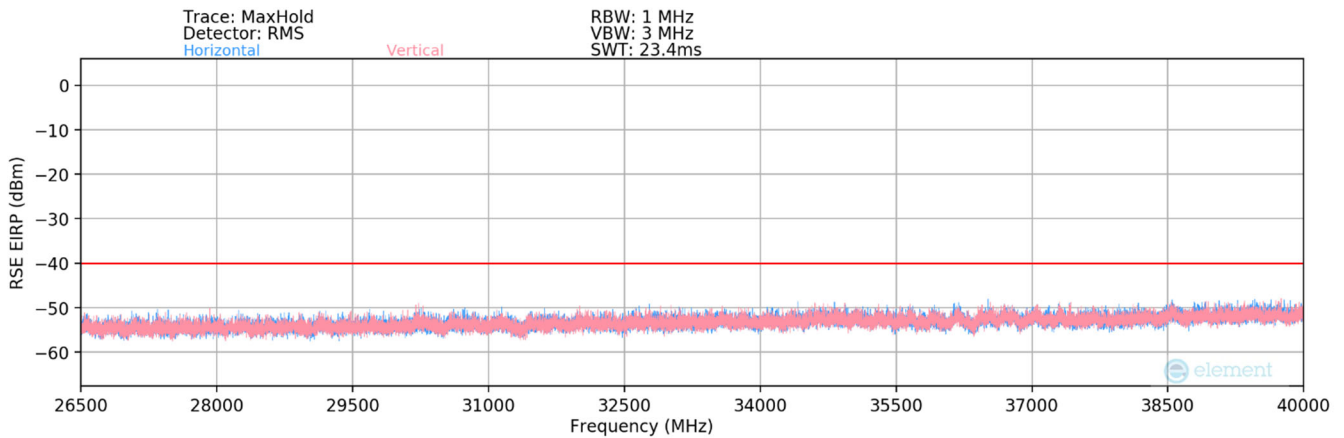
FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 130 of 143



Plot 7-175. Radiated Spurious Plot 1-18GHz (NR Band n48 – Ant D)



Plot 7-176. Radiated Spurious Plot 18-26.5GHz (NR Band n48 – Ant D)



Plot 7-177. Radiated Spurious Plot 26.5-40GHz (NR Band n48 – Ant D)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 131 of 143



Bandwidth (MHz):	100
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 136
Detector / Trace Mode:	RMS / Max Hold
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]
7140.00	V	-	-	-77.52	8.26	37.74	-57.52	-40.00	-17.52
10710.00	V	-	-	-79.39	12.00	39.61	-55.65	-40.00	-15.65
14280.00	V	-	-	-79.82	15.04	42.22	-53.03	-40.00	-13.03
17850.00	V	-	-	-80.27	17.84	44.57	-50.69	-40.00	-10.69
21420.00	V	-	-	-58.90	3.84	51.94	-52.86	-40.00	-12.86
24990.00	V	-	-	-57.94	4.37	53.43	-51.37	-40.00	-11.37
28560.00	V	-	-	-59.83	5.31	52.48	-52.32	-40.00	-12.32
32130.00	V	-	-	-59.04	7.37	55.33	-49.47	-40.00	-9.47

Table 7-39. Radiated Spurious Data (NR Band n48 – Low Channel – Ant D)

Bandwidth (MHz):	100
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 136
Detector / Trace Mode:	RMS / Max Hold
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]
7250.00	V	-	-	-77.06	7.59	37.53	-57.73	-40.00	-17.73
10875.00	V	255	357	-73.78	11.86	45.08	-50.17	-40.00	-10.17
14500.00	V	-	-	-80.06	15.32	42.26	-53.00	-40.00	-13.00
18125.00	V	-	-	-58.05	1.42	50.37	-54.43	-40.00	-14.43
21750.00	V	-	-	-59.68	3.83	51.15	-53.65	-40.00	-13.65
25375.00	V	-	-	-59.27	4.45	52.18	-52.62	-40.00	-12.62
29000.00	V	-	-	-57.77	5.53	54.76	-50.04	-40.00	-10.04
32625.00	V	-	-	-57.73	6.85	56.12	-48.68	-40.00	-8.68

Table 7-40. Radiated Spurious Data (NR Band n48 – Mid Channel – Ant D)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2209010098-12.A3L	Test Dates: 09/06/2022 - 11/16/2022	EUT Type: Portable Handset	Page 132 of 143



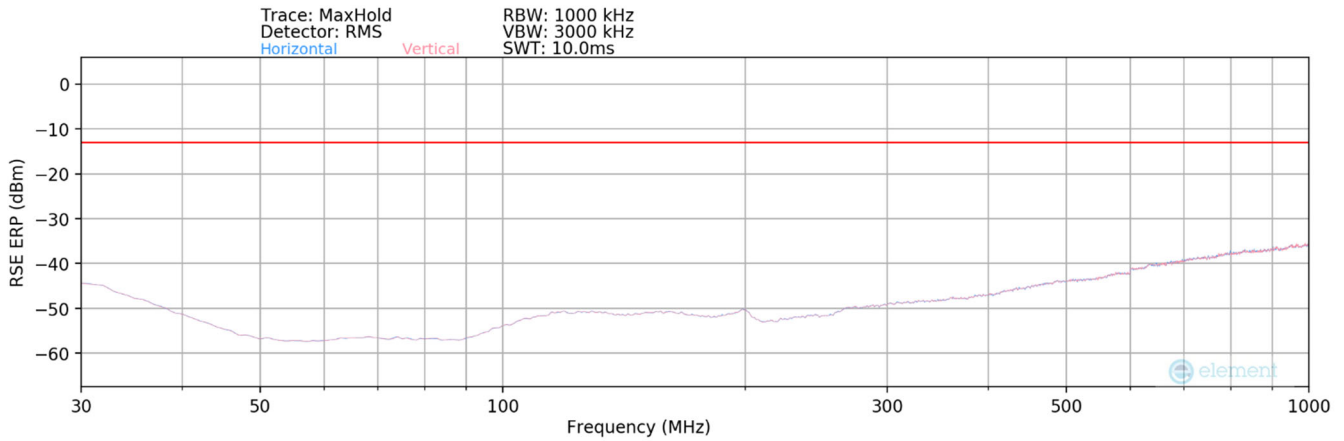
Bandwidth (MHz):	100
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 136
Detector / Trace Mode:	RMS / Max Hold
RBW / VBW:	1MHz / 3MHz

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]
7360.00	V	-	-	-76.93	7.93	38.00	-57.26	-40.00	-17.26
11040.00	V	-	-	-78.78	12.09	40.31	-54.95	-40.00	-14.95
14720.00	V	-	-	-80.33	15.58	42.25	-53.01	-40.00	-13.01
18400.00	V	-	-	-58.17	1.43	50.26	-54.54	-40.00	-14.54
22080.00	V	-	-	-58.23	3.75	52.52	-52.28	-40.00	-12.28
25760.00	V	-	-	-58.48	4.60	53.12	-51.68	-40.00	-11.68
29440.00	V	-	-	-59.25	5.88	53.63	-51.17	-40.00	-11.17
33120.00	V	-	-	-58.36	7.36	56.00	-48.80	-40.00	-8.80

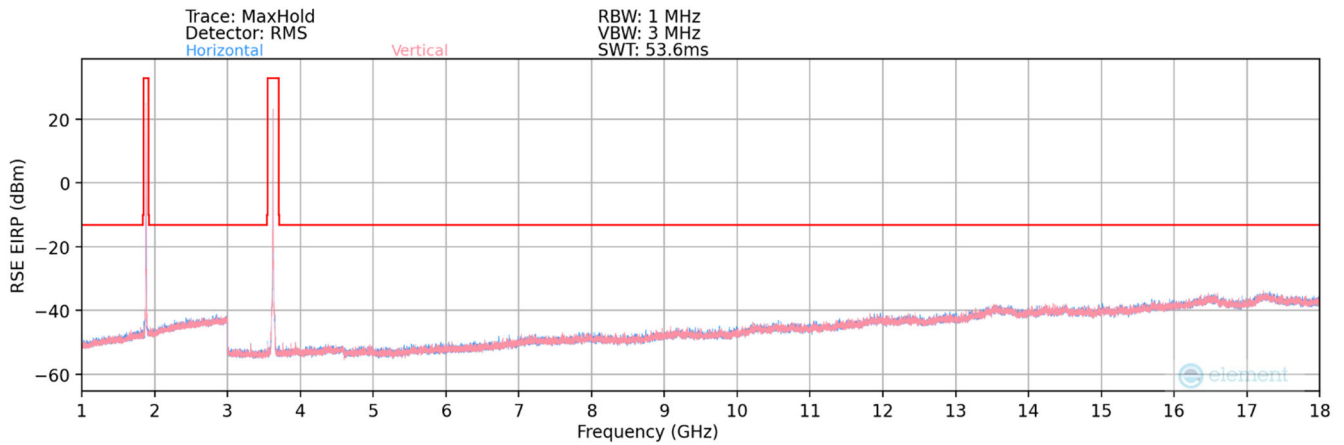
Table 7-41. Radiated Spurious Data (NR Band n48 – High Channel – Ant D)

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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EN-DC: NR Band n48 – LTE Band 2



Plot 7-178. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n48 – LTE Band 2)



Plot 7-179. Radiated Spurious Plot 1-18GHz (EN-DC: NR Band n48 – LTE Band 2)

Bandwidth (MHz):	40 & 20
Frequency (MHz):	3625 & 1880
Modulation Signal:	QPSK
RB Config (Size / Offset):	1/53 & 1/50
Detector / Trace Mode:	RMS / Max Hold
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]
270.00	V	-	*	-101.83	20.63	25.80	-69.46	-13.00	-56.46
3490.00	V	-	-	-71.61	6.99	42.38	-52.87	-13.00	-39.87
6980.00	V	-	-	-72.95	14.52	48.57	-46.69	-13.00	-33.69
9130.00	V	-	-	-75.55	17.79	49.24	-46.02	-13.00	-33.02

Table 7-42. Radiated Spurious Data (EN-DC: NR Band n48 – LTE Band 2)

FCC ID: A3LSMS918U	PART 96 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 96, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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

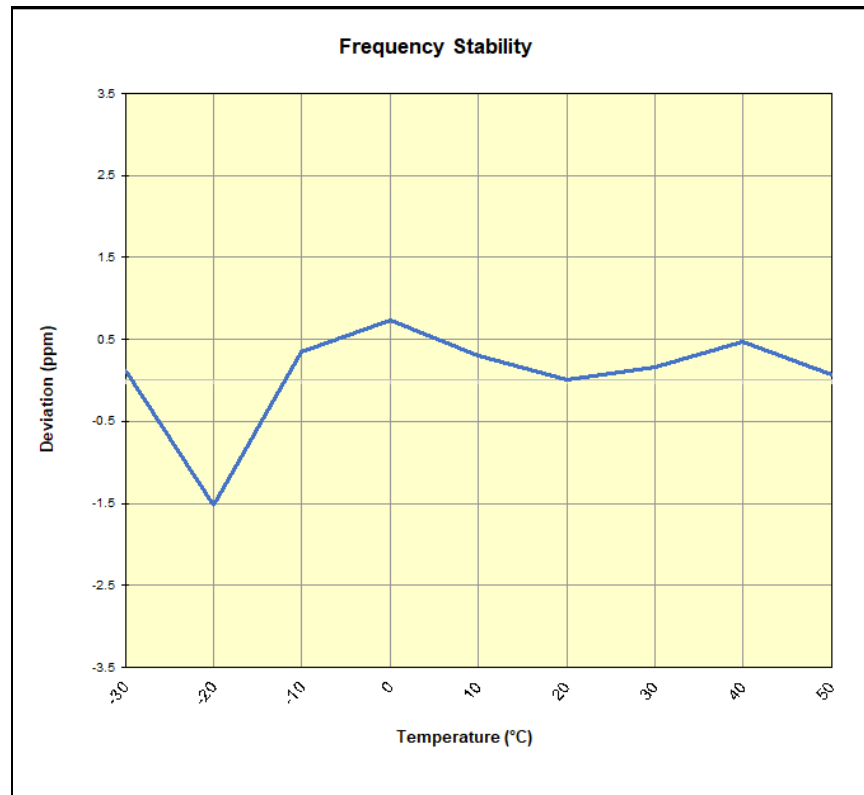
None

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

LTE Band 48					
		Operating Frequency (Hz):		3,625,000,000	
		Ref. Voltage (VDC):		4.28	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	3,625,001,878	421	0.0000116
		- 20	3,624,995,921	-5,536	-0.0001527
		- 10	3,625,002,691	1,234	0.0000340
		0	3,625,004,114	2,657	0.0000733
		+ 10	3,625,002,568	1,111	0.0000306
		+ 20 (Ref)	3,625,001,457	0	0.0000000
		+ 30	3,625,002,054	597	0.0000165
		+ 40	3,625,003,155	1,698	0.0000468
Battery Endpoint	3.64	+ 20	3,625,001,826	369	0.0000102

Table 7-43. LTE Band 48 Frequency Stability Data



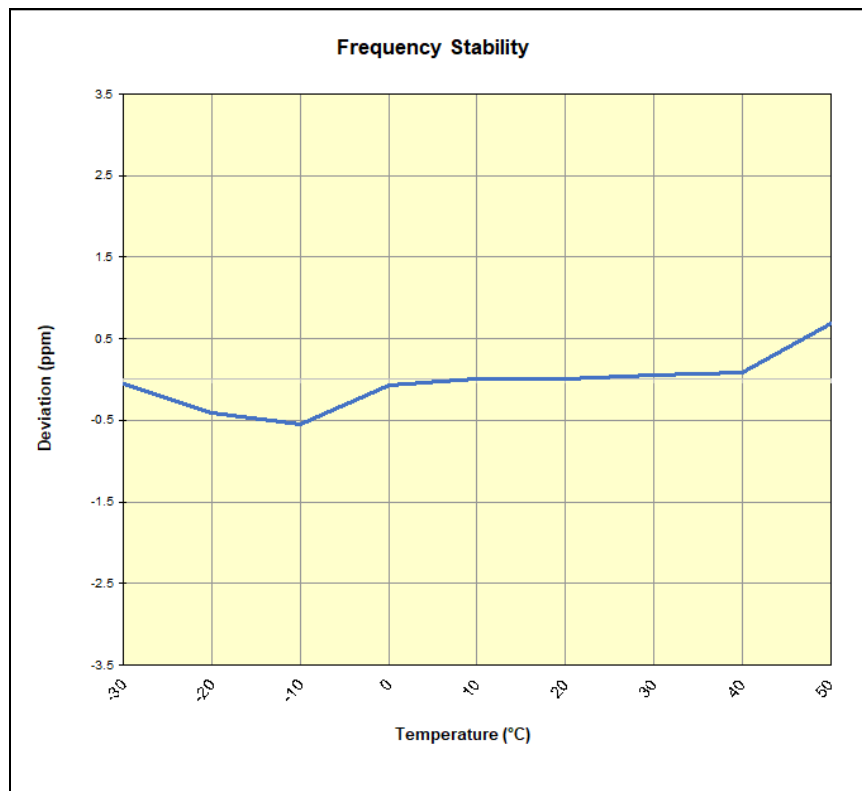
Plot 7-180. LTE Band 48 Frequency Stability Chart

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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Frequency Stability / Temperature Variation

NR Band n48					
Operating Frequency (Hz):		3,625,000,000			
Ref. Voltage (VDC):		4.28			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.28	- 30	3,625,004,040	-214	-0.0000059
		- 20	3,625,002,785	-1,469	-0.0000405
		- 10	3,625,002,253	-2,001	-0.0000552
		0	3,625,004,019	-235	-0.0000065
		+ 10	3,625,004,301	47	0.0000013
		+ 20 (Ref)	3,625,004,254	0	0.0000000
		+ 30	3,625,004,423	169	0.0000047
		+ 40	3,625,004,581	327	0.0000090
		+ 50	3,625,006,753	2,499	0.0000689
Battery Endpoint	3.64	+ 20	3,625,004,222	-32	-0.0000009

Table 7-44. NR Band n48 (Ant G) Frequency Stability Data



Plot 7-181. NR Band n48 Frequency Stability Chart

FCC ID: A3LSMS918U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
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7.9 End User Device Additional Requirement (CBSD Protocol)

Test Overview and Limit

End user device additional requirements are tested per the test procedures listed below. During testing, the EUT is connected to a certified LTE CBSD (Ruckus FCC ID: S9GQ910US00) and an NR CBSD (AirSpan FCC ID: PIDAV2700) as a companion device to show compliance with Part 96.47.

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

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

Test Procedure Used

KDB 940660 D01 v03, WINNF-18-IN-00178 v1.0.0.00, WINNF-TS-0122 v1.0.2

Test Setup/Method

The EUT was connected via an RF cable to a certified CBSD and spectrum analyzer. The following procedure is performed by applying WINNF-TS-0122 CBRS CBSD Test Specification.

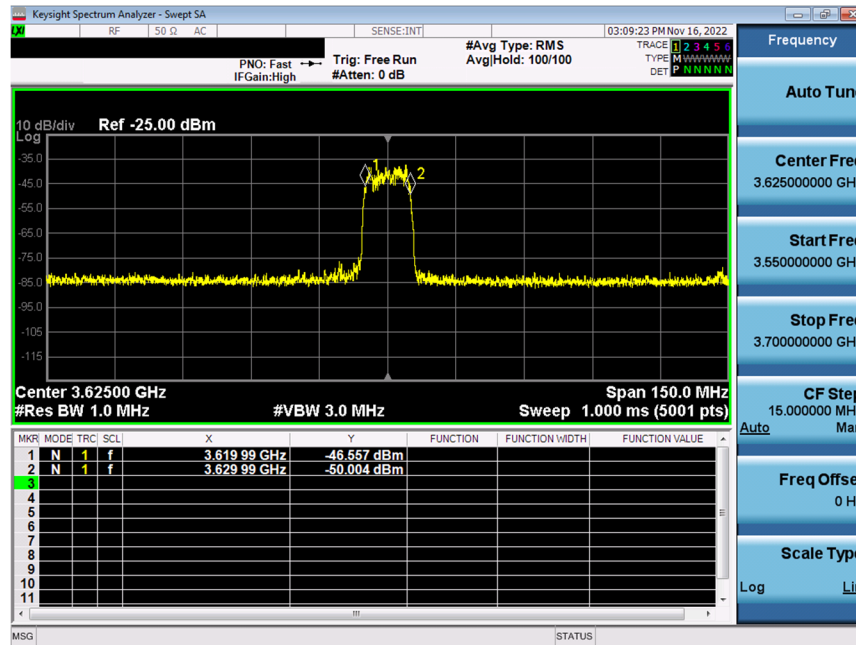
1. Run#1:
 - a. Setup WINNF.PT.C.HBT.1 with 3615MHz – 3635MHz.
 - b. Enable AP/CBSD service.
 - c. Check EUT Tx frequency.
 - d. Disable AP/CBSD service and check EUT stop transmission within 10s.
2. Run#2:
 - a. Setup WINNF.PT.C.HBT.1 with 3660MHz – 3680MHz.
 - b. Enable AP/CBSD service.
 - c. Check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

Test Notes

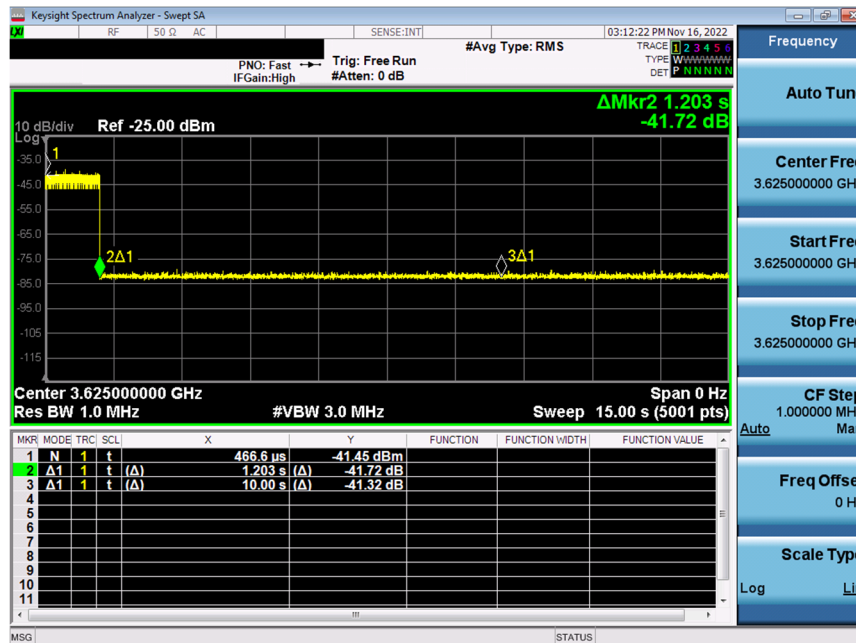
The EUT is an End User Device.

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LTE Band 48 Run#1:



Plot 7-182. Run#1 End User Device Frequency of Operations



Plot 7-183. Run#1 End User Device Discontinues Operations within 10s

Note:

- Marker 1: CBSD sends instructions to discontinue LTE operations.
- Marker 2: EUT discontinues operation.
- Marker 3: 10 seconds elapsed time from CBSD sending instructions to EUT.

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