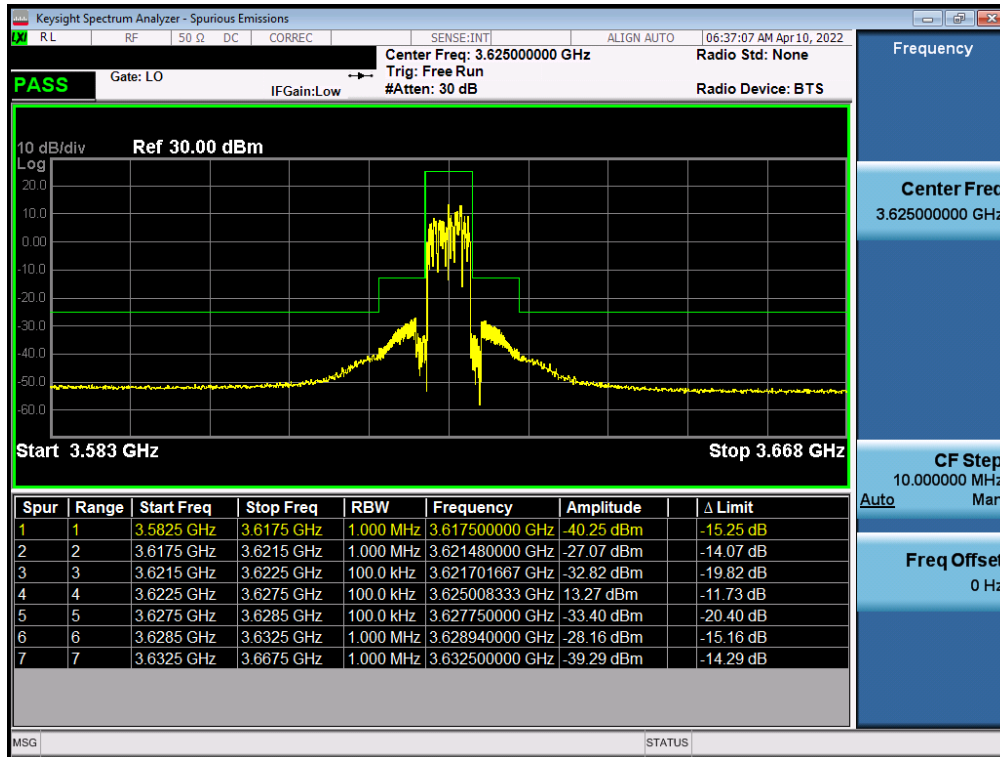
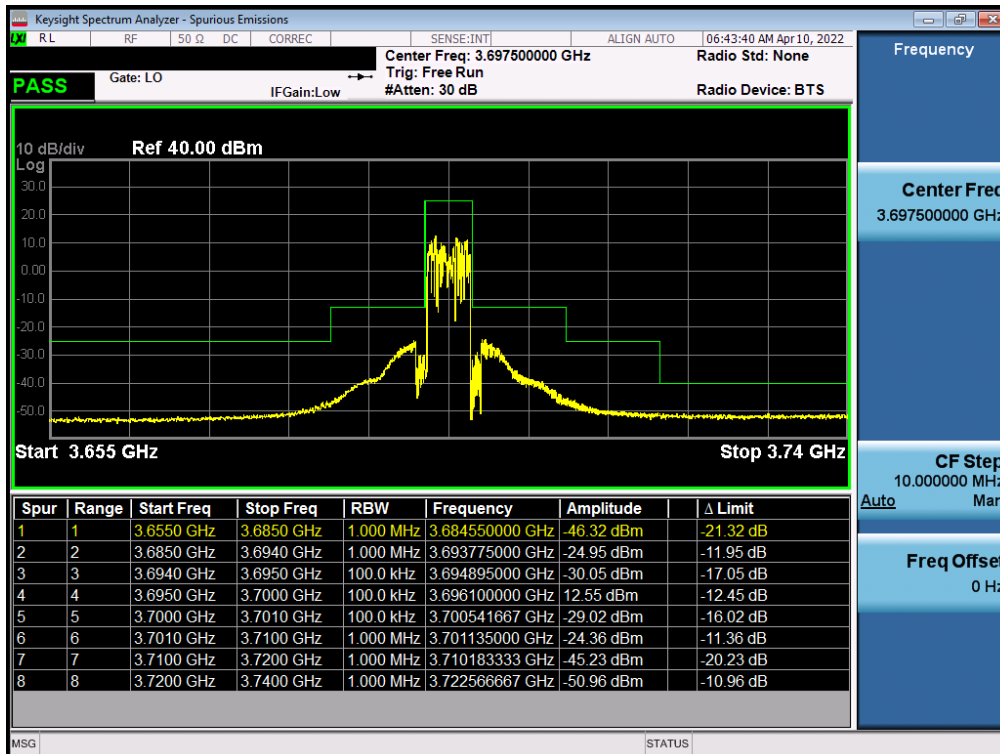




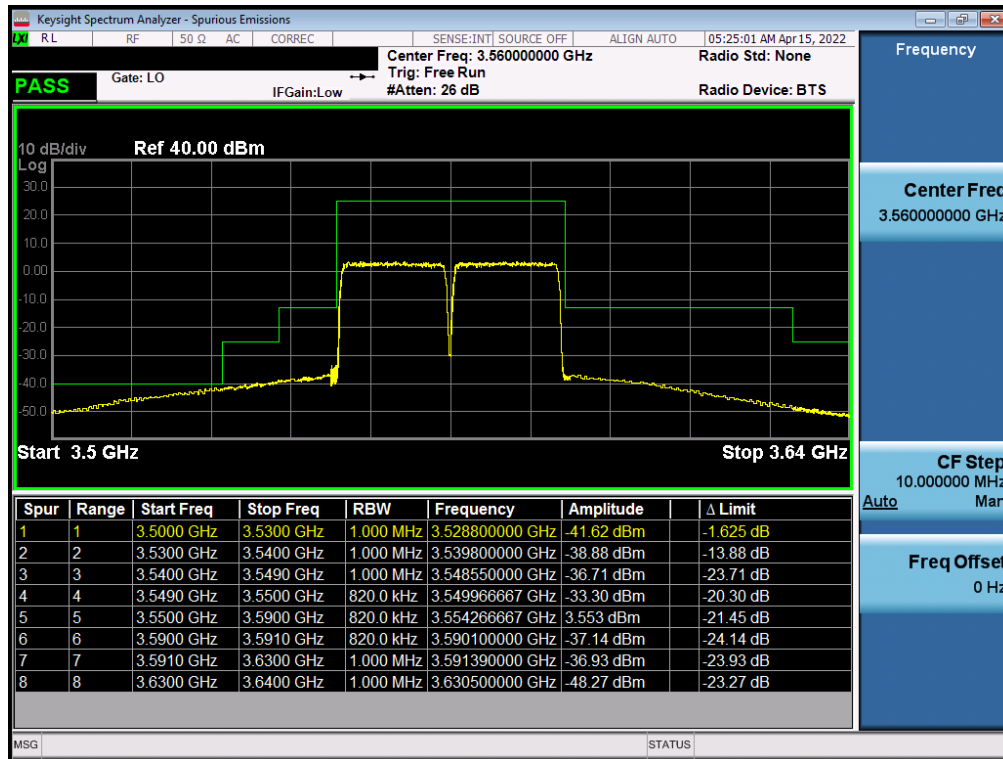
Plot 7-111. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - Mid Channel)



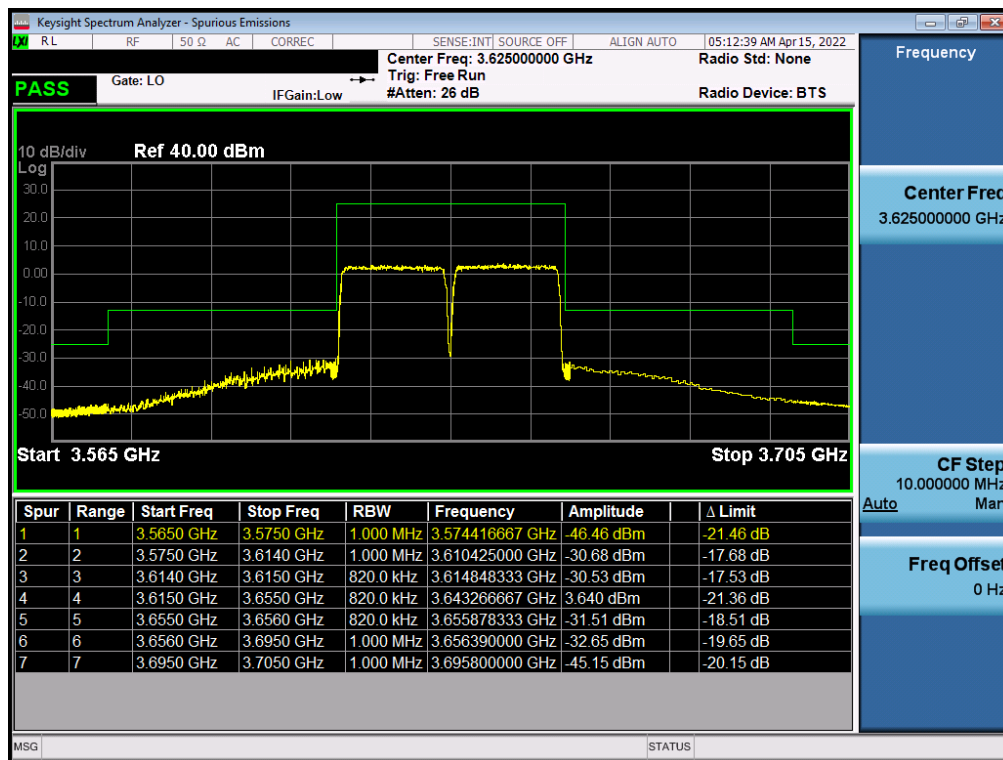
Plot 7-112. Channel Edge Plot (LTE Band 48 - 5MHz QPSK - High Channel)

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 79 of 138

ULCA LB48

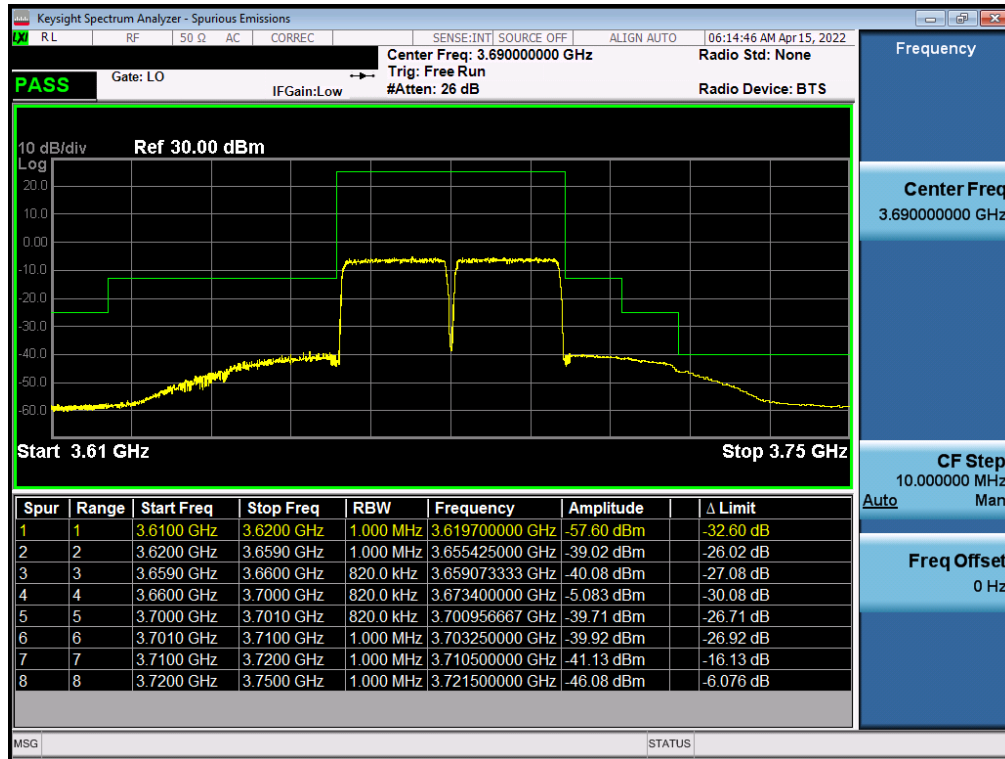


Plot 7-113. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - Low Channel)



Plot 7-114. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - Mid Channel)

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 80 of 138

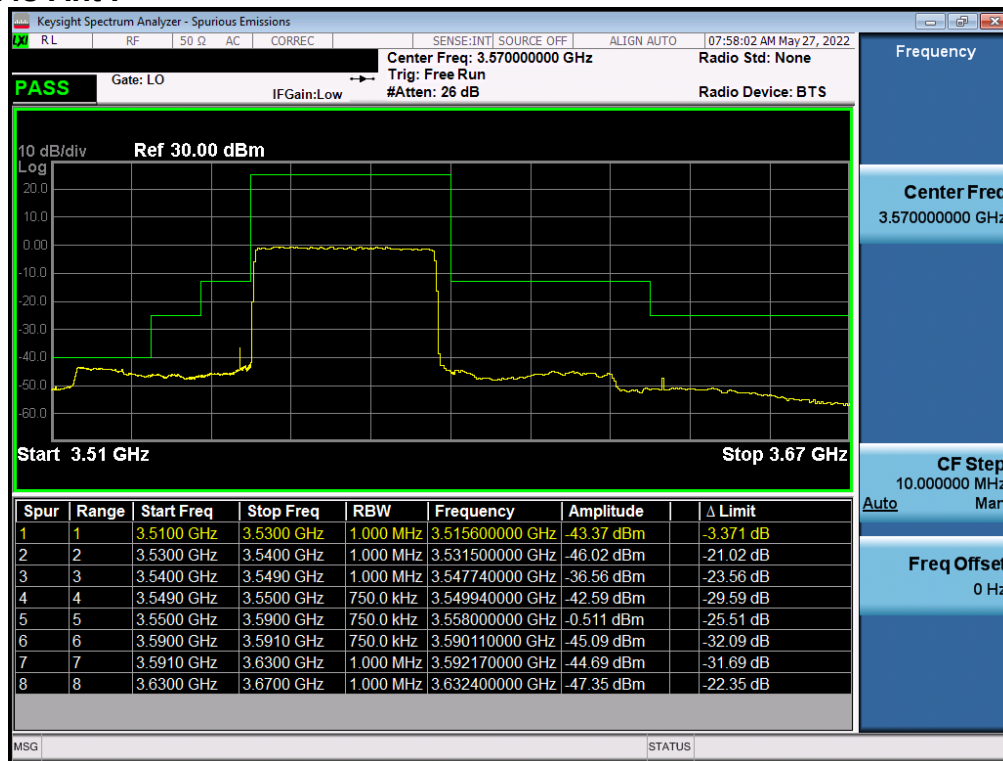


Plot 7-115. Channel Edge Plot (LTE Band 48 – 20+20MHz QPSK - High Channel)

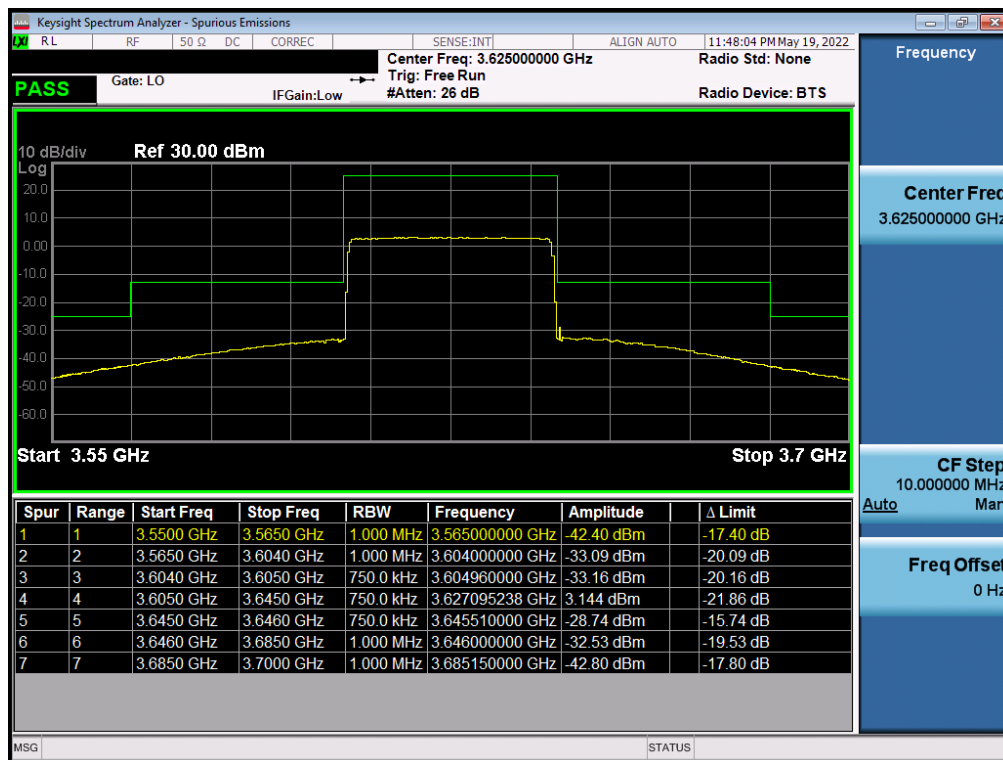
FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 81 of 138

V3.0 1/6/2022

NR Band n48 Ant F

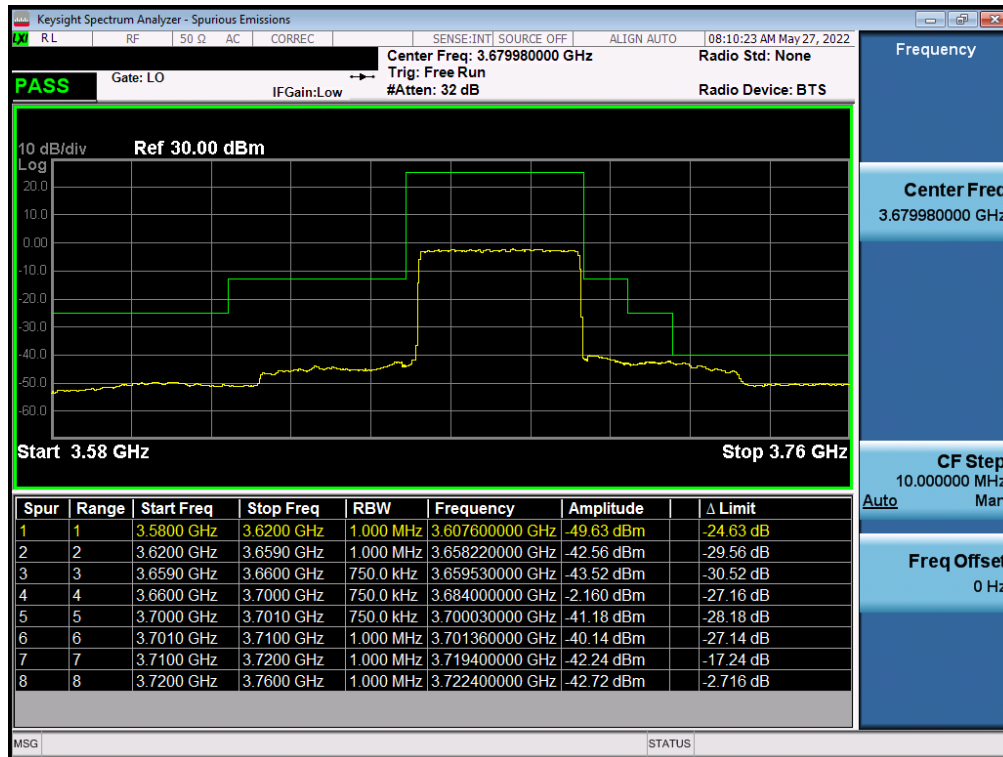


Plot 7-116. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant F)

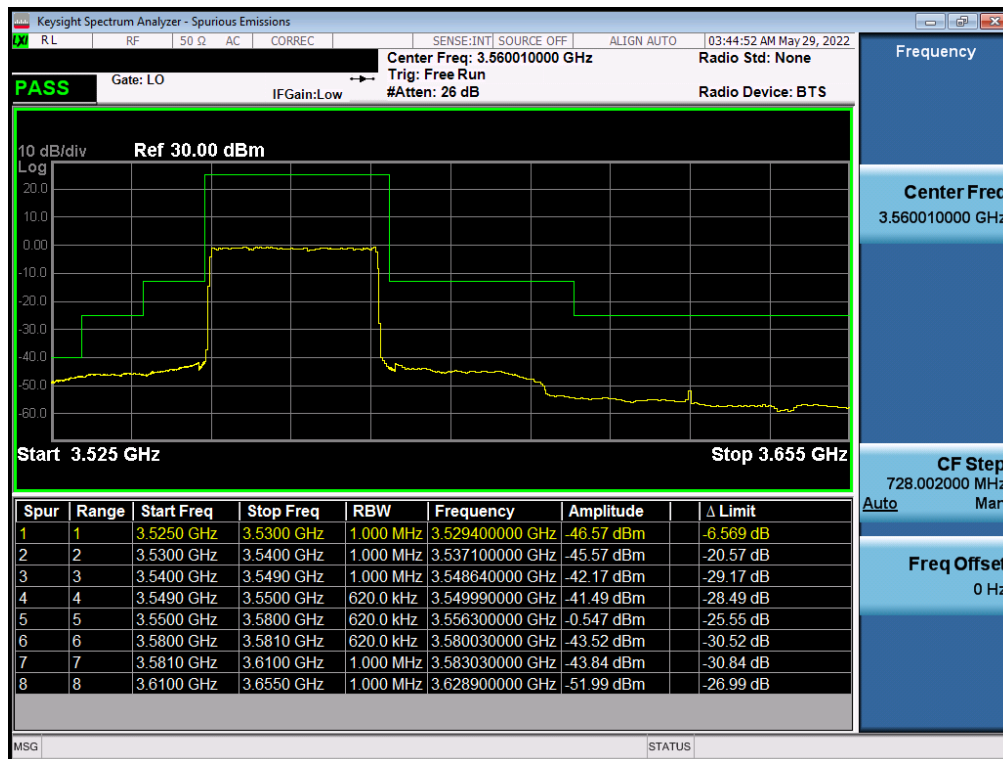


Plot 7-117. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant F)

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 82 of 138

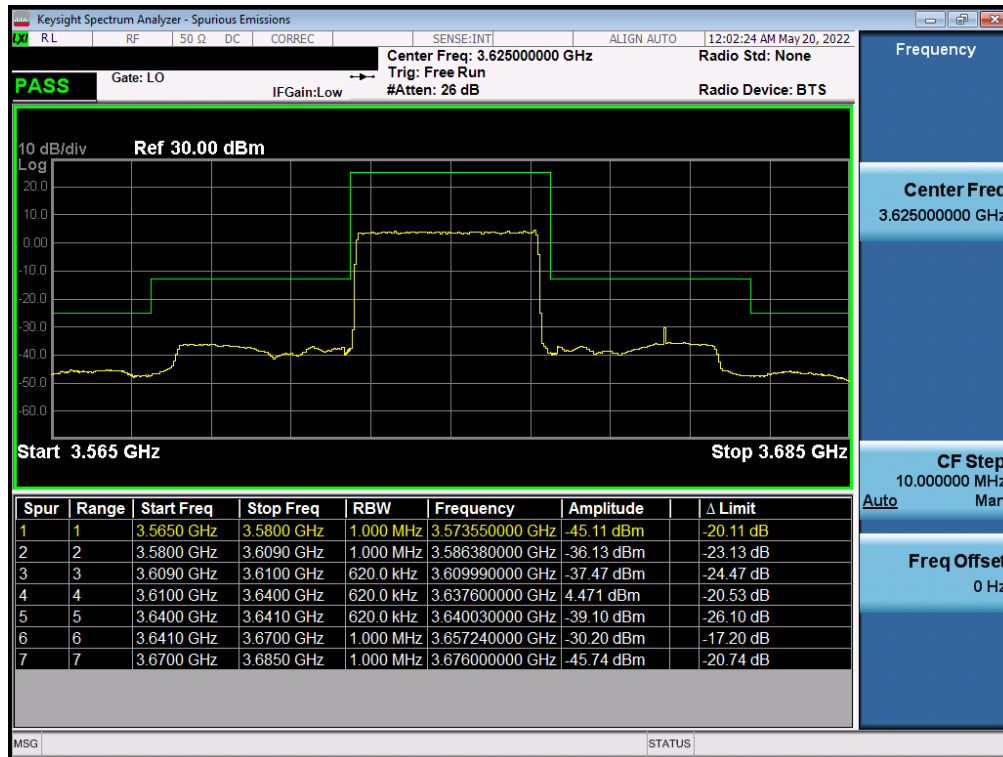


Plot 7-118. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant F)

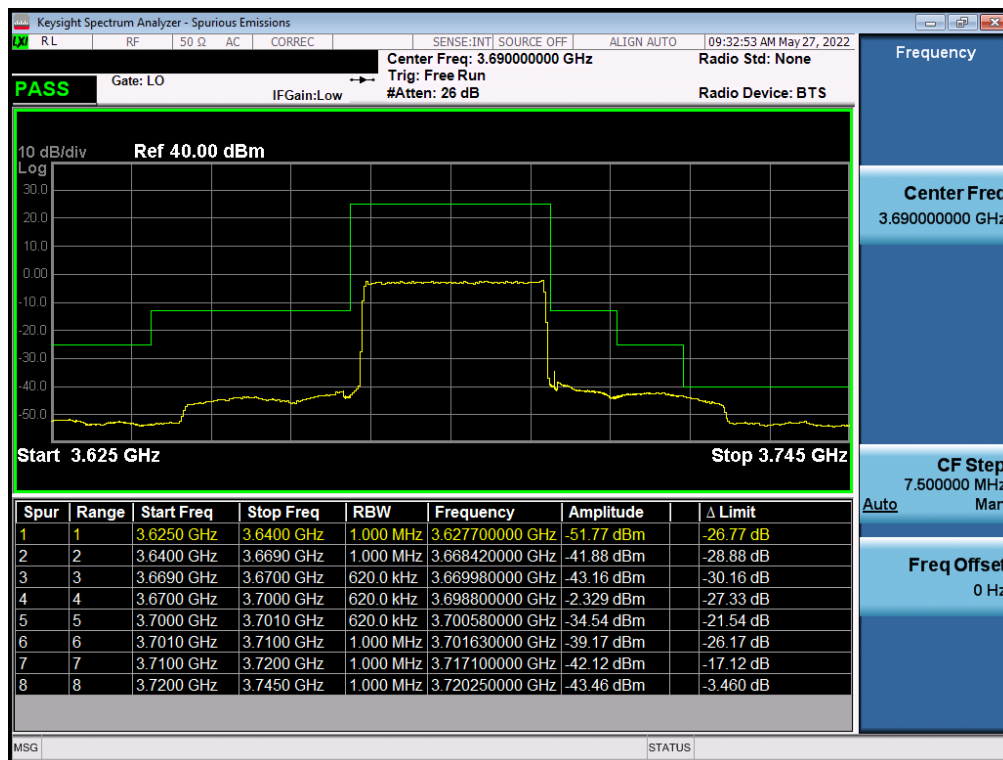


Plot 7-119. Channel Edge Plot (NR Band n48 - 30MHz QPSK - Low Channel - Ant F)

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 83 of 138

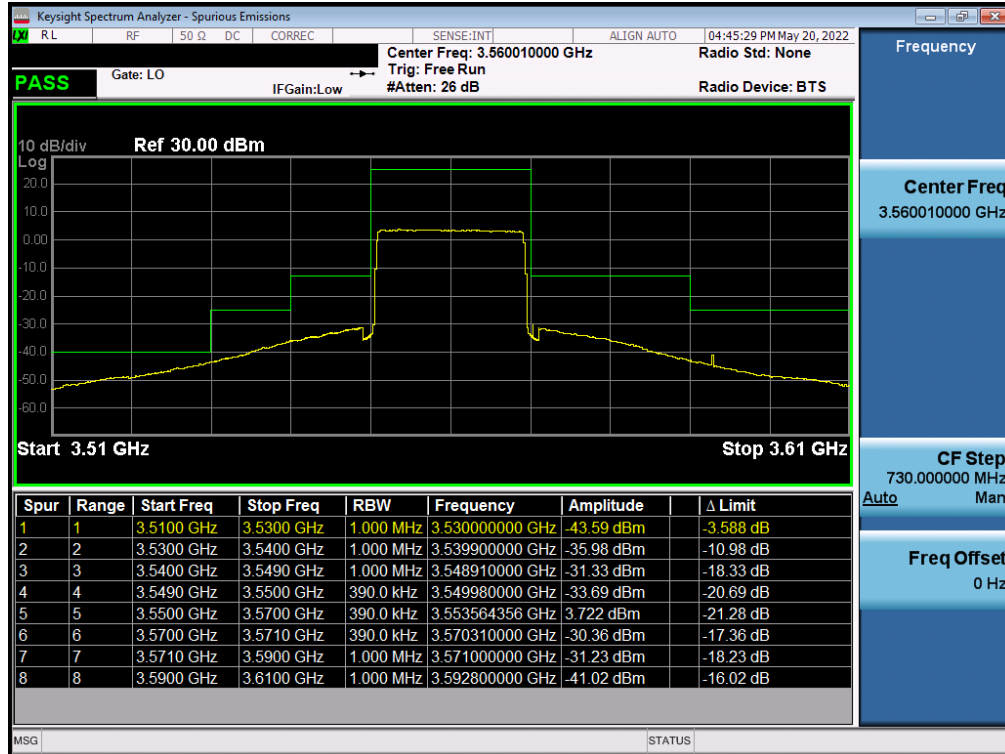


Plot 7-120. Channel Edge Plot (NR Band n48 - 30MHz QPSK - Mid Channel - Ant F)

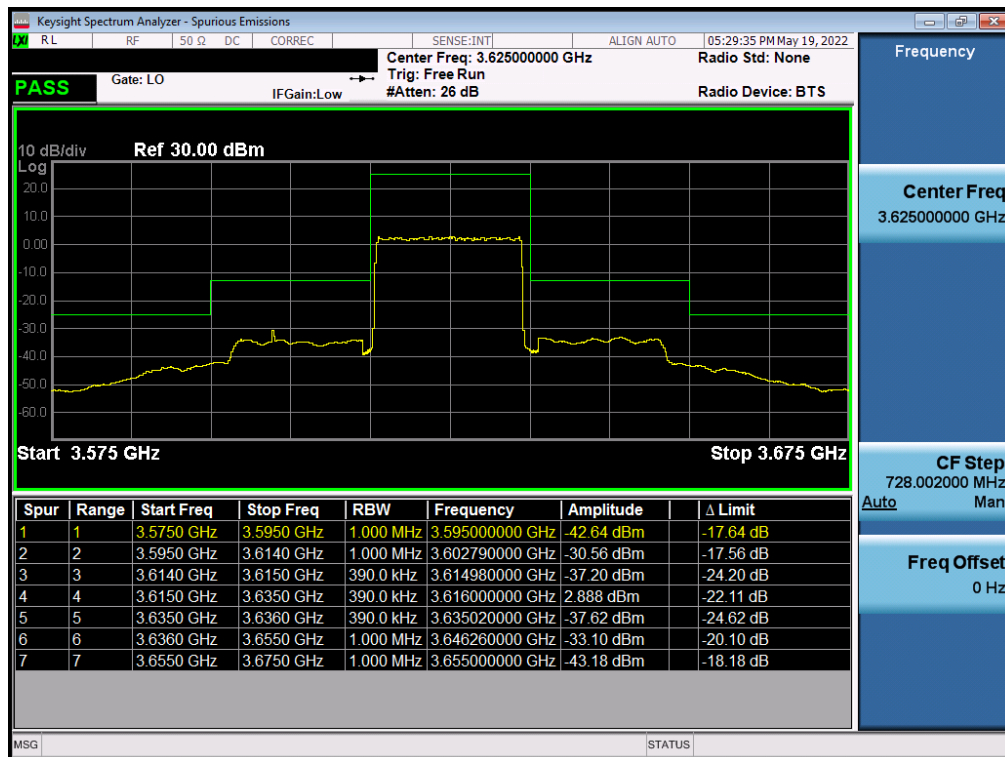


Plot 7-121. Channel Edge Plot (NR Band n48 - 30MHz QPSK - High Channel - Ant F)

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 84 of 138



Plot 7-122. Channel Edge Plot (NR Band n48 - 20MHz QPSK - Low Channel - Ant F)

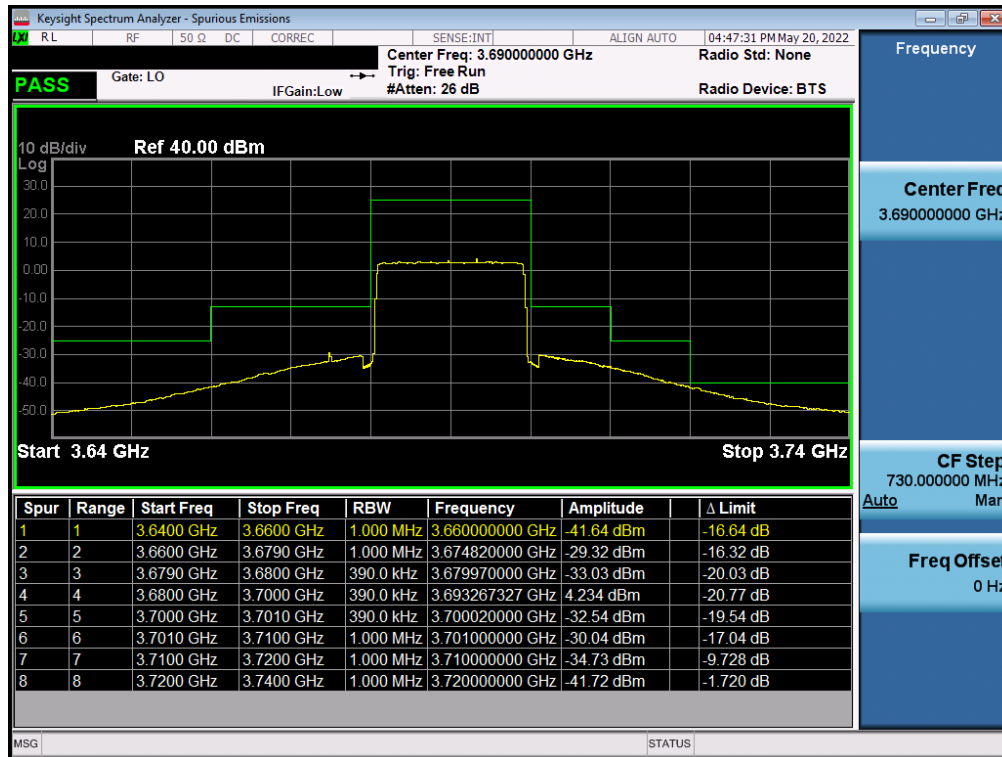


Plot 7-123. Channel Edge Plot (NR Band n48 - 20MHz QPSK - Mid Channel - Ant F)

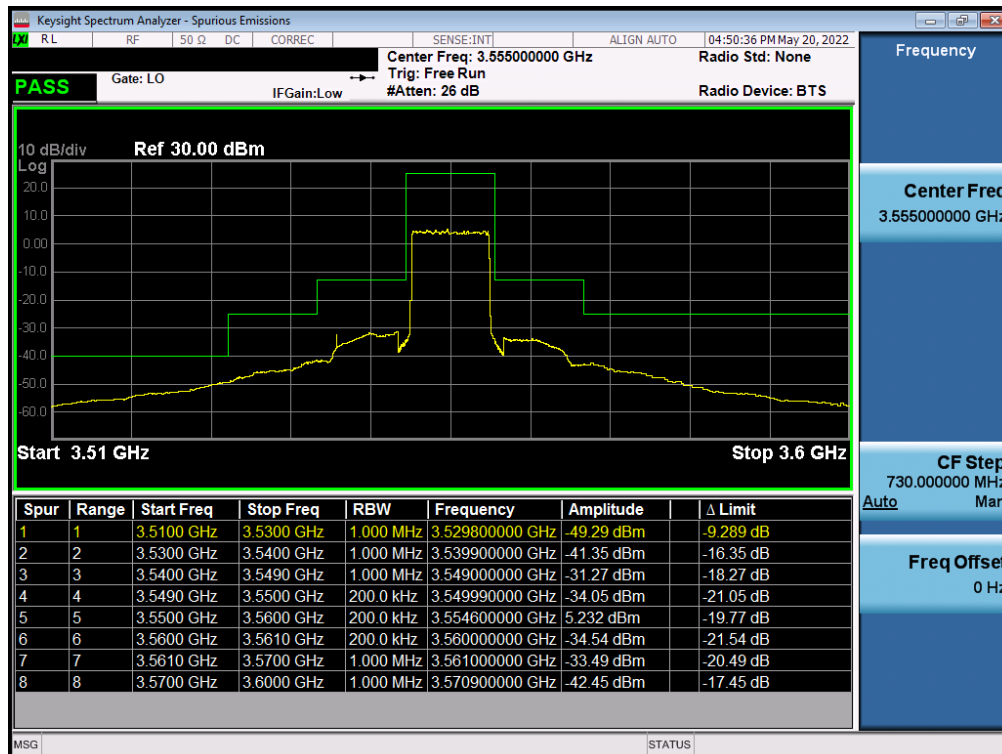
FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 85 of 138

V3.0 1/6/2022

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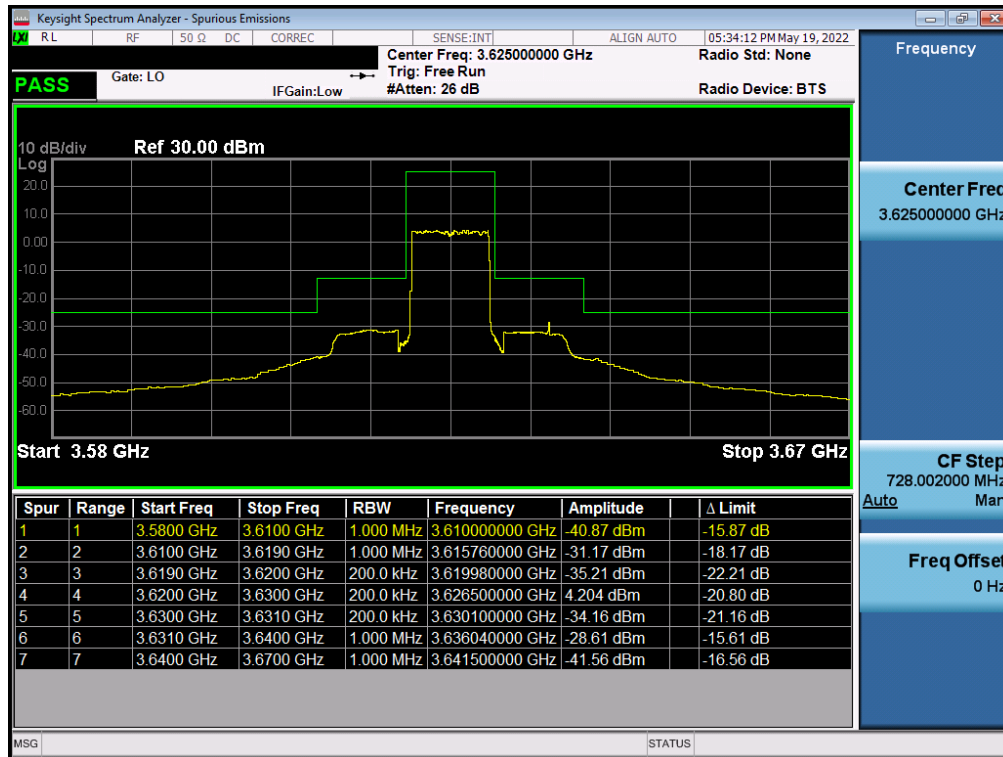


Plot 7-124. Channel Edge Plot (NR Band n48 - 20MHz QPSK - High Channel - Ant F)

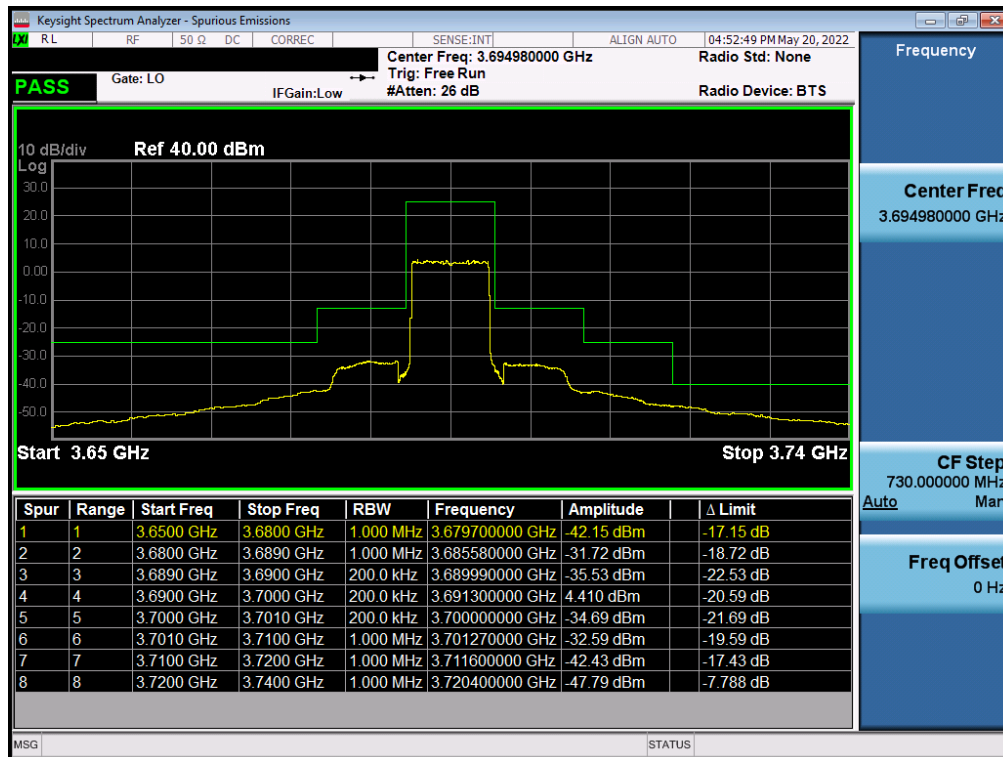


Plot 7-125. Channel Edge Plot (NR Band n48 - 10MHz QPSK - Low Channel - Ant F)

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 86 of 138



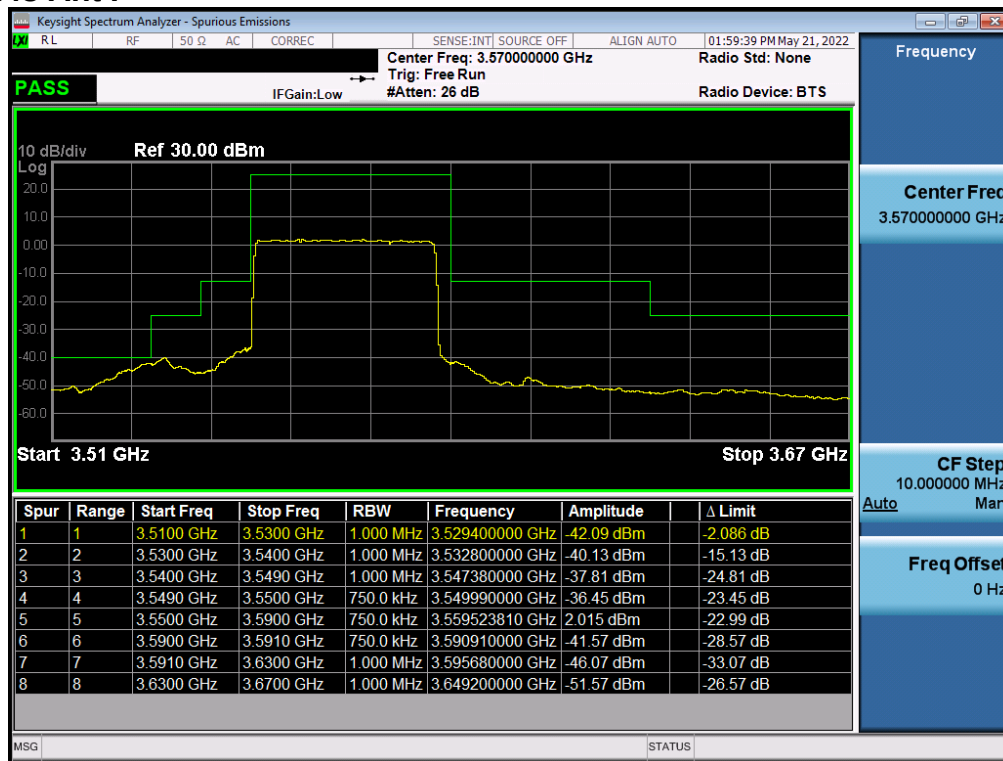
Plot 7-126. Channel Edge Plot (NR Band n48 - 10MHz QPSK - Mid Channel - Ant F)



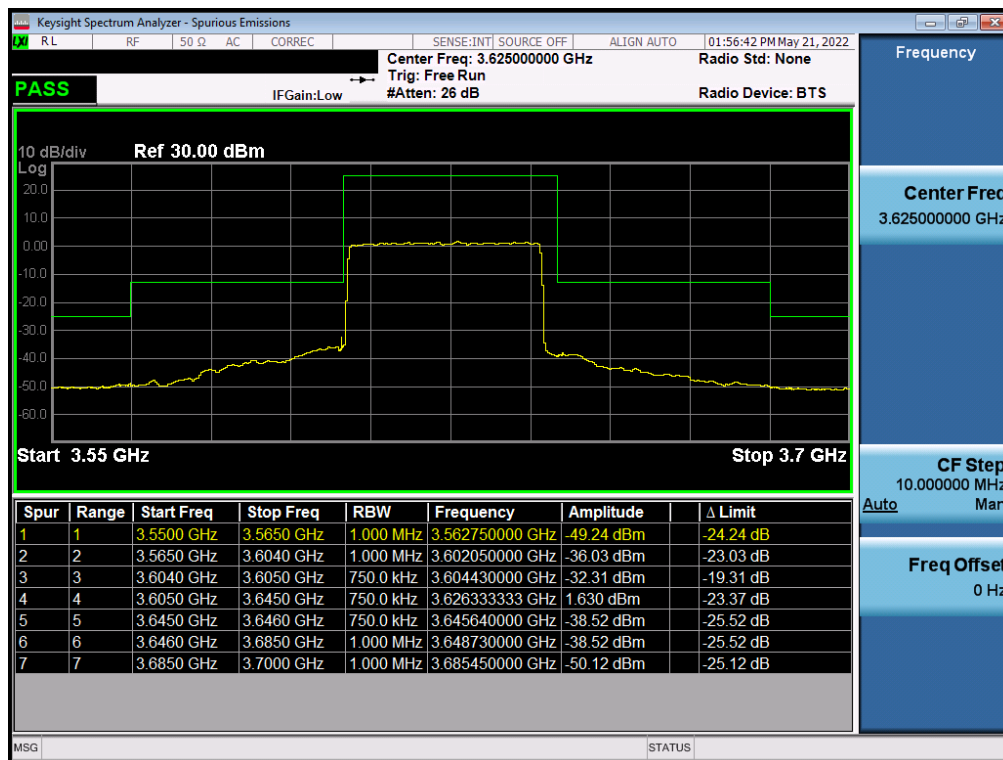
Plot 7-127. Channel Edge Plot (NR Band n48 - 10MHz QPSK - High Channel - Ant F)

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 87 of 138

NR Band n48 Ant I

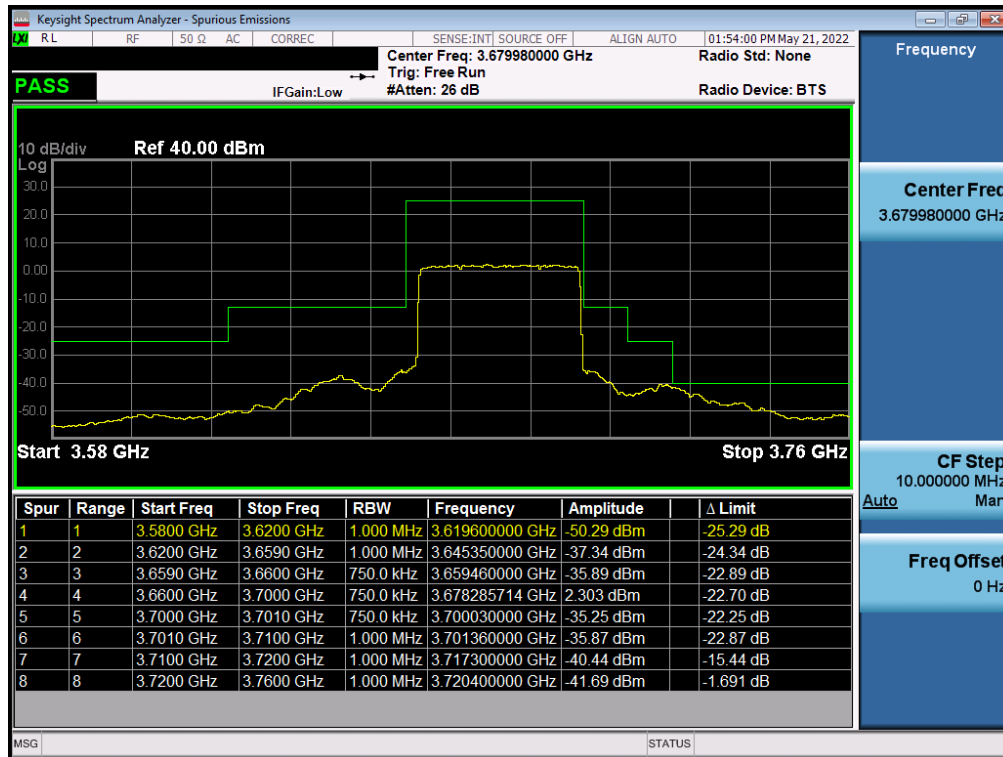


Plot 7-128. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant I)



Plot 7-129. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant I)

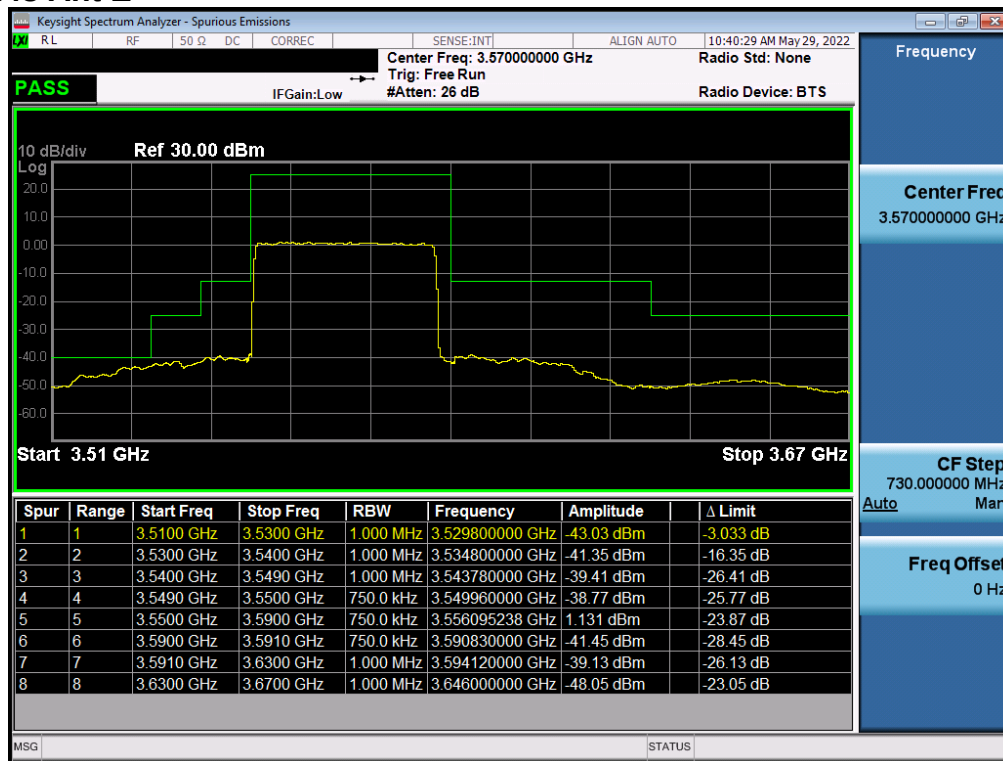
FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 88 of 138



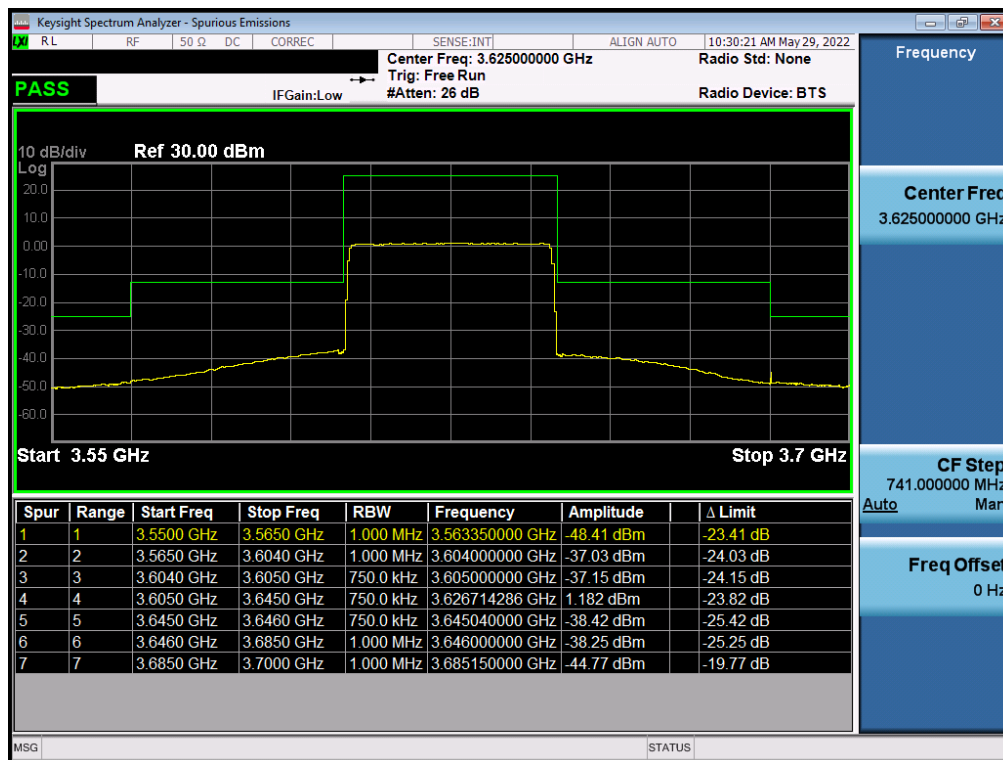
Plot 7-130. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant I)

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 89 of 138

NR Band n48 Ant E

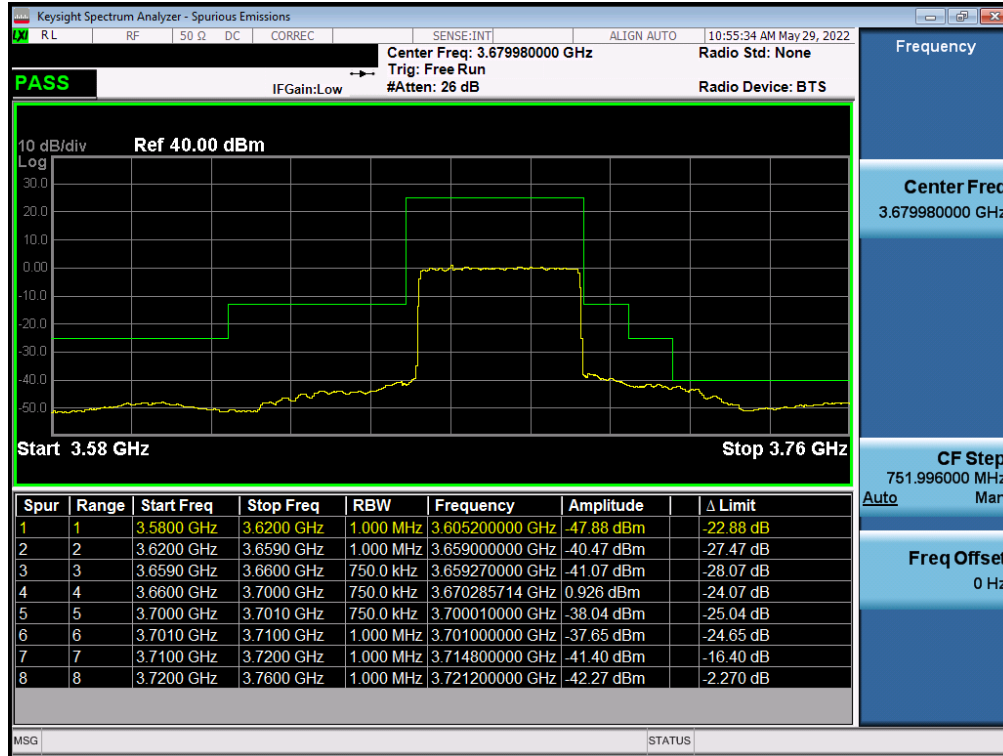


Plot 7-131. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant E)



Plot 7-132. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant E)

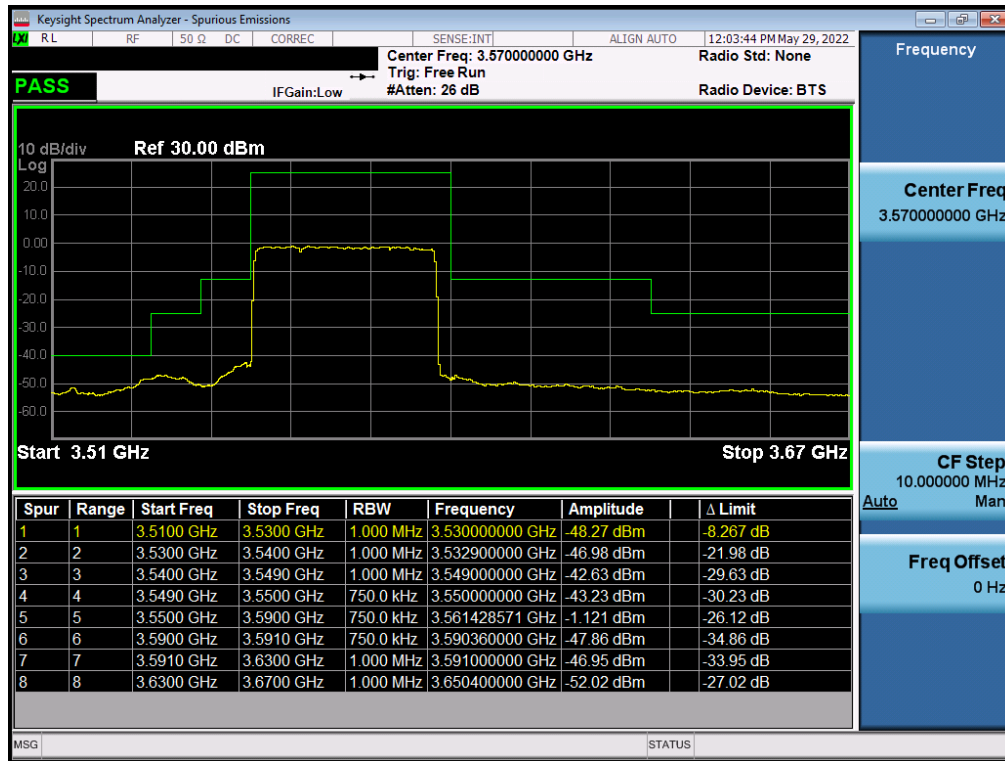
FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 90 of 138



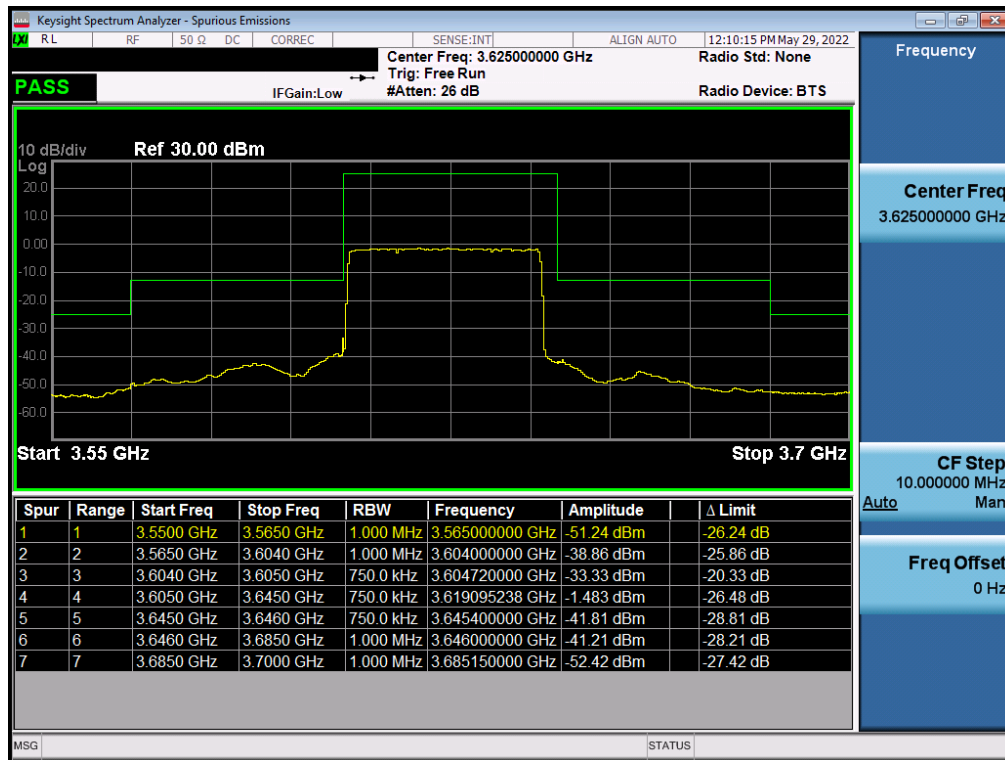
Plot 7-133. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant E)

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 91 of 138

NR Band n48 Ant C

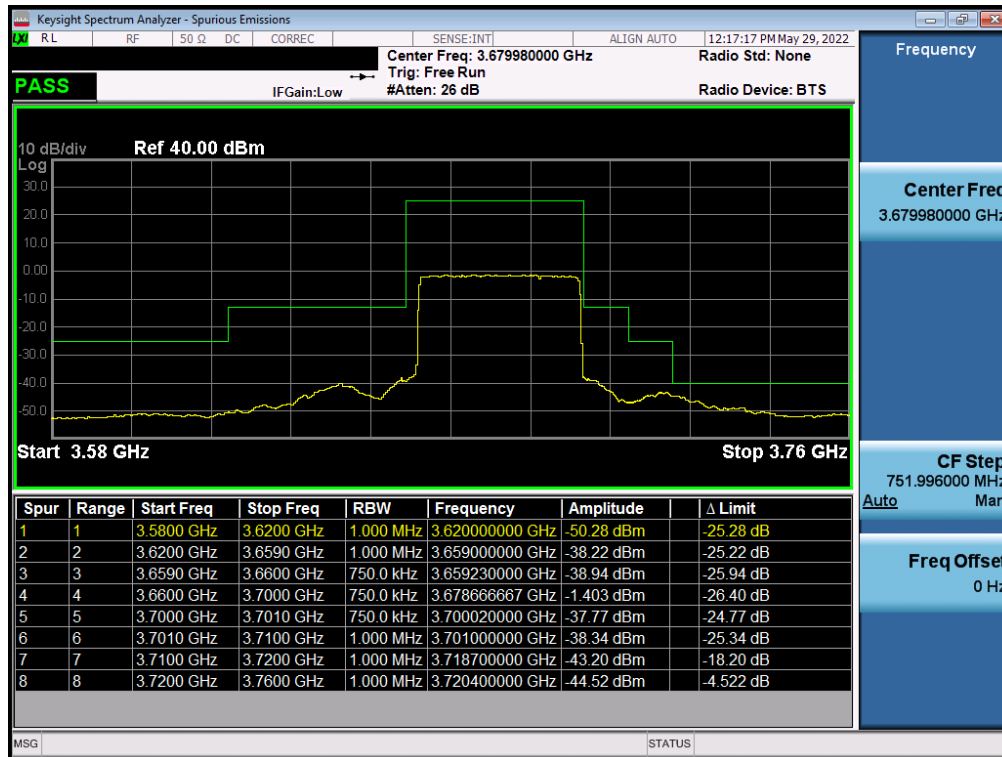


Plot 7-134. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Low Channel - Ant C)



Plot 7-135. Channel Edge Plot (NR Band n48 - 40MHz QPSK - Mid Channel - Ant C)

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 92 of 138



Plot 7-136. Channel Edge Plot (NR Band n48 - 40MHz QPSK - High Channel - Ant C)

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 93 of 138

V3.0 1/6/2022

7.6 Radiated Power (EIRP)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

Test Settings

1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 – 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Span = 1.5 times the OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
8. The integration bandwidth was set equal to 10MHz. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize.

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 94 of 138

V3.0 1/6/2022

Test Setup

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

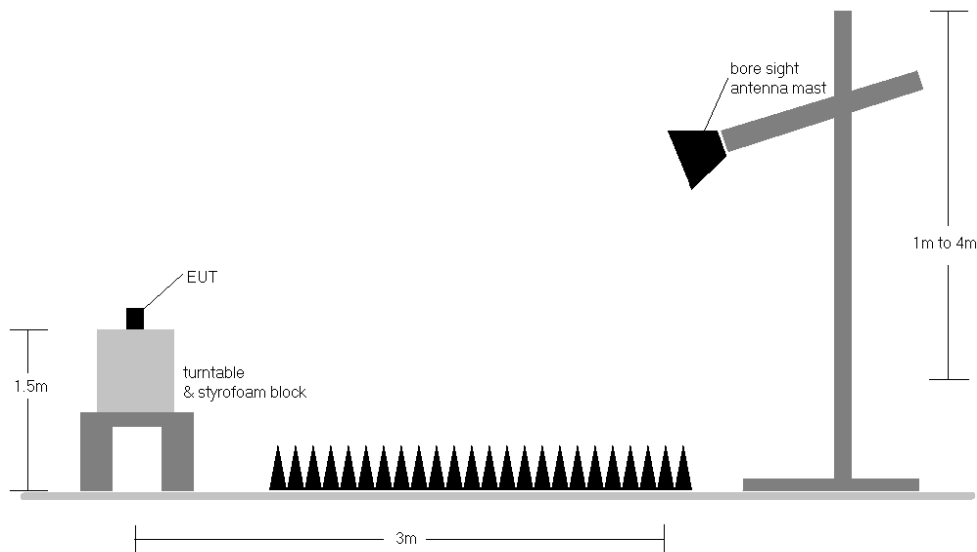


Figure 7-5. Radiated Test Setup >1GHz

Test Notes

- 1) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 2) This unit was tested with its standard battery.
- 3) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
- 4) The worst case EIRP shown in this section is found with LTE operating only using 1RB. As such, the EIRP/10MHz and full channel EIRP values will be identical since 1RB is fully contained within all available channel bandwidths for LTE Band 48 (i.e. 5, 10, 15, 20MHz).

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 95 of 138

V3.0 1/6/2022

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
20 MHz	QPSK	3560.0	H	116	150	7.37	1 / 99	10.39	17.76	0.060	23.00	-5.24
	QPSK	3625.0	H	116	151	6.77	1 / 50	11.03	17.80	0.060	23.00	-5.20
	QPSK	3690.0	H	110	152	6.15	1 / 50	11.67	17.82	0.060	23.00	-5.18
	16-QAM	3690.0	H	110	152	6.15	1 / 99	10.84	16.99	0.050	23.00	-6.01
15 MHz	QPSK	3557.5	H	116	150	7.40	1 / 37	10.48	17.88	0.061	23.00	-5.12
	QPSK	3625.0	H	116	151	6.77	1 / 37	10.71	17.48	0.056	23.00	-5.52
	QPSK	3692.5	H	110	152	6.12	1 / 37	11.52	17.64	0.058	23.00	-5.36
	16-QAM	3625.0	H	116	151	6.77	1 / 37	10.21	16.98	0.050	23.00	-6.02
10 MHz	QPSK	3555.0	H	116	150	7.43	1 / 49	10.46	17.88	0.061	23.00	-5.12
	QPSK	3625.0	H	116	151	6.77	1 / 49	10.75	17.51	0.056	23.00	-5.49
	QPSK	3695.0	H	110	152	6.09	1 / 49	11.33	17.42	0.055	23.00	-5.58
	16-QAM	3625.0	H	116	151	6.77	1 / 49	10.33	17.09	0.051	23.00	-5.91
5 MHz	QPSK	3552.5	H	116	150	7.45	1 / 12	10.29	17.74	0.059	23.00	-5.26
	QPSK	3625.0	H	116	151	6.77	1 / 24	10.98	17.75	0.060	23.00	-5.25
	QPSK	3697.5	H	110	152	6.06	1 / 12	11.78	17.85	0.061	23.00	-5.15
	16-QAM	3697.5	H	110	152	6.06	1 / 12	11.11	17.17	0.052	23.00	-5.83
20 MHz	QPSK (Opposite Pol.)	3690.0	V	380	222	6.60	1 / 50	10.83	17.43	0.055	23.00	-5.57
	QPSK (Half Open)	3690.0	H	107	158	6.15	1 / 99	8.69	14.84	0.030	23.00	-8.16
	QPSK (WCP)	3690.0	H	146	210	6.15	1 / 50	6.06	12.21	0.017	23.00	-10.79

Table 7-10. EIRP Data (LTE Band 48) – Half Open

Bandwidth	Modulation	PCC			SCC			Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degrees]	Ant. Gain [dBi]	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
		Bandwidth [MHz]	Frequency [MHz]	RB / Offset	Bandwidth [MHz]	Frequency [MHz]	RB / Offset									
40 MHz	QPSK	20	3560.0	1 / 99	20	3579.8	1 / 0	H	105	149	7.37	10.46	17.83	0.061	23.00	-5.17
		20	3625.0	1 / 99	20	3644.8	1 / 0	H	112	153	6.77	11.10	17.87	0.061	23.00	-5.13
		20	3690.0	1 / 0	20	3670.2	1 / 99	H	108	153	6.15	11.70	17.85	0.061	23.00	-5.15
	16-QAM	20	3560.0	1 / 99	20	3579.8	1 / 0	H	105	149	7.37	9.71	17.08	0.051	23.00	-5.92
		20	3625.0	1 / 99	20	3644.8	1 / 0	H	112	153	6.77	10.26	17.03	0.050	23.00	-5.97
		20	3690.0	1 / 0	20	3670.2	1 / 99	H	108	153	6.15	10.83	16.98	0.050	23.00	-6.02
35 MHz	QPSK	20	3560.0	1 / 99	15	3577.1	1 / 0	H	105	149	7.37	10.75	18.12	0.065	23.00	-4.88
		20	3625.0	1 / 99	15	3642.1	1 / 0	H	112	153	6.77	11.28	18.05	0.064	23.00	-4.95
		20	3690.0	1 / 0	15	3672.9	1 / 74	H	108	153	6.15	12.29	18.43	0.070	23.00	-4.57
	16-QAM	20	3560.0	1 / 99	15	3577.1	1 / 0	H	105	149	7.37	9.41	16.78	0.048	23.00	-6.22
		20	3625.0	1 / 99	15	3642.1	1 / 0	H	112	153	6.77	10.26	17.03	0.050	23.00	-5.97
		20	3690.0	1 / 0	15	3672.9	1 / 74	H	108	153	6.15	11.11	17.25	0.053	23.00	-5.75
30 MHz	QPSK	20	3560.0	1 / 99	10	3574.4	1 / 0	H	105	149	7.37	10.92	18.29	0.068	23.00	-4.71
		20	3625.0	1 / 99	10	3639.4	1 / 0	H	112	153	6.77	11.25	18.02	0.063	23.00	-4.98
		20	3690.0	1 / 0	10	3678.3	1 / 49	H	108	153	6.15	12.17	18.32	0.068	23.00	-4.68
	16-QAM	20	3560.0	1 / 99	10	3574.4	1 / 0	H	105	149	7.37	9.92	17.30	0.054	23.00	-5.70
		20	3625.0	1 / 99	10	3639.4	1 / 0	H	112	153	6.77	10.26	17.03	0.050	23.00	-5.97
		20	3690.0	1 / 0	10	3678.3	1 / 49	H	108	153	6.15	10.74	16.88	0.049	23.00	-6.12
25 MHz	QPSK	20	3560.0	1 / 99	5	3571.7	1 / 0	H	105	149	7.37	10.87	18.24	0.067	23.00	-4.76
		20	3625.0	1 / 99	5	3636.7	1 / 0	H	112	153	6.77	11.23	18.00	0.063	23.00	-5.00
		20	3690.0	1 / 0	5	3678.3	1 / 24	H	108	153	6.15	12.14	18.29	0.067	23.00	-4.71
	16-QAM	20	3560.0	1 / 99	5	3571.7	1 / 0	H	105	149	7.37	9.78	17.16	0.052	23.00	-5.84
		20	3625.0	1 / 99	5	3636.7	1 / 0	H	112	153	6.77	9.97	16.73	0.047	23.00	-6.27
		20	3690.0	1 / 0	5	3678.3	1 / 24	H	108	153	6.15	10.63	16.78	0.048	23.00	-6.22

Table 7-11. EIRP Data (LTE ULCA Band 48) – Open

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 96 of 138

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3570.00	H	117	135	7.27	1 / 53	11.56	18.83	0.076	23.00	-4.17
	$\pi/2$ BPSK	3624.99	H	108	133	6.77	1 / 53	12.52	19.29	0.085	23.00	-3.71
	$\pi/2$ BPSK	3680.00	H	112	29	6.25	1 / 53	12.78	19.03	0.080	23.00	-3.97
	QPSK	3570.00	H	117	135	7.27	1 / 79	11.16	18.43	0.070	23.00	-4.57
	QPSK	3624.99	H	108	133	6.77	1 / 79	11.93	18.70	0.074	23.00	-4.30
	QPSK	3679.98	H	112	29	6.25	1 / 79	12.44	18.69	0.074	23.00	-4.31
30 MHz	16-QAM	3624.99	H	108	133	6.77	1 / 26	11.28	18.05	0.064	23.00	-4.95
	$\pi/2$ BPSK	3565.02	H	117	135	7.32	1 / 19	11.41	18.73	0.075	23.00	-4.27
	$\pi/2$ BPSK	3624.99	H	108	133	6.77	1 / 39	12.51	19.28	0.085	23.00	-3.72
	$\pi/2$ BPSK	3684.99	H	112	29	6.20	1 / 19	12.87	19.07	0.081	23.00	-3.93
	QPSK	3565.02	H	117	135	7.32	1 / 19	10.98	18.30	0.068	23.00	-4.70
	QPSK	3624.99	H	108	133	6.77	1 / 39	11.92	18.69	0.074	23.00	-4.31
20 MHz	QPSK	3684.99	H	112	29	6.20	1 / 19	12.47	18.67	0.074	23.00	-4.33
	16-QAM	3624.99	H	108	133	6.77	1 / 39	11.22	17.99	0.063	23.00	-5.01
	$\pi/2$ BPSK	3560.01	H	117	135	7.37	1 / 37	11.37	18.74	0.075	23.00	-4.26
	$\pi/2$ BPSK	3624.99	H	108	133	6.77	1 / 13	12.42	19.19	0.083	23.00	-3.81
	$\pi/2$ BPSK	3690.00	H	112	29	6.15	1 / 13	12.74	18.88	0.077	23.00	-4.12
	QPSK	3560.01	H	117	135	7.37	1 / 37	10.98	18.35	0.068	23.00	-4.65
10 MHz	QPSK	3624.99	H	108	133	6.77	1 / 13	11.83	18.60	0.072	23.00	-4.40
	QPSK	3690.00	H	112	29	6.15	1 / 13	12.35	18.49	0.071	23.00	-4.51
	16-QAM	3624.99	H	108	133	6.77	1 / 13	11.12	17.89	0.061	23.00	-5.11
	$\pi/2$ BPSK	3555.00	H	117	135	7.43	1 / 6	11.09	18.52	0.071	23.00	-4.48
	$\pi/2$ BPSK	3624.99	H	108	133	6.77	1 / 17	12.25	19.02	0.080	23.00	-3.98
	$\pi/2$ BPSK	3694.98	H	112	29	6.09	1 / 17	12.66	18.75	0.075	23.00	-4.25
40 MHz	QPSK	3555.00	H	117	135	7.43	1 / 6	10.70	18.13	0.065	23.00	-4.87
	QPSK	3624.99	H	108	133	6.77	1 / 17	11.62	18.39	0.069	23.00	-4.61
	QPSK	3694.98	H	112	29	6.09	1 / 17	12.31	18.40	0.069	23.00	-4.60
	16-QAM	3624.99	H	108	133	6.77	1 / 17	10.97	17.74	0.059	23.00	-5.26
	QPSK (CP-OFDM)	3624.99	H	108	133	6.77	1 / 79	10.49	17.26	0.053	23.00	-5.74
	QPSK (Half)	3624.99	H	120	300	6.77	1 / 79	11.18	17.95	0.062	23.00	-5.05
40 MHz	QPSK (Opposite Pol.)	3624.99	V	382	210	6.91	1 / 26	12.07	18.98	0.079	23.00	-4.02
	QPSK (WCP)	3624.99	H	143	217	6.77	1 / 26	10.38	17.15	0.052	23.00	-5.85

Table 7-12. EIRP Data (NR Band n48 Ant F) – Open

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3570.0	H	116	240	7.27	1 / 79	8.85	16.12	0.041	23.00	-6.88
	$\pi/2$ BPSK	3625.0	H	115	236	6.77	1 / 79	8.63	15.40	0.035	23.00	-7.60
	$\pi/2$ BPSK	3680.0	H	108	233	6.25	1 / 53	7.44	13.69	0.023	23.00	-9.31
	QPSK	3570.0	H	116	240	7.27	1 / 79	8.81	16.08	0.041	23.00	-6.92
	QPSK	3625.0	H	115	236	6.77	1 / 79	8.73	15.50	0.035	23.00	-7.50
	QPSK	3680.0	H	108	233	6.25	1 / 26	7.35	13.60	0.023	23.00	-9.40
40 MHz	16-QAM	3570.0	H	116	240	7.27	1 / 79	8.15	15.42	0.035	23.00	-7.58
	QPSK (CP-OFDM)	3570.0	H	116	240	7.27	1/79	5.40	12.67	0.018	23.00	-10.33

Table 7-13. EIRP Data (NR Band n48 Ant I) – Closed

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3560.0	H	117	312	7.27	1 / 79	5.11	12.38	0.017	23.00	-10.62
	$\pi/2$ BPSK	3625.0	H	119	314	6.77	1 / 79	5.59	12.36	0.017	23.00	-10.64
	$\pi/2$ BPSK	3690.0	H	118	312	6.25	1 / 79	5.42	11.67	0.015	23.00	-11.33
	QPSK	3560.0	H	117	312	7.27	1 / 79	5.14	12.41	0.017	23.00	-10.59
	QPSK	3625.0	H	119	314	6.77	1 / 79	5.61	12.38	0.017	23.00	-10.62
	QPSK	3690.0	H	118	312	6.25	1 / 79	5.43	11.68	0.015	23.00	-11.32
40 MHz	16-QAM	3560.0	H	117	312	7.27	1 / 79	5.02	12.29	0.017	23.00	-10.71
	QPSK (CP-OFDM)	3570.0	H	117	312	7.27	1/53	5.02	12.29	0.017	23.00	-10.71

Table 7-14. EIRP Data (NR Band n48 Ant E) – Open

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 97 of 138

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm/10MHz]	EIRP [Watts/10MHz]	EIRP Limit [dBm/10MHz]	Margin [dB]
40 MHz	$\pi/2$ BPSK	3560.0	V	110	101	7.14	1 / 79	4.65	11.79	0.015	23.00	-11.21
	$\pi/2$ BPSK	3625.0	V	108	97	6.91	1 / 26	4.16	11.07	0.013	23.00	-11.93
	$\pi/2$ BPSK	3690.0	V	114	106	6.63	1 / 26	1.05	7.68	0.006	23.00	-15.32
	QPSK	3560.0	V	110	101	7.14	1 / 79	4.70	11.84	0.015	23.00	-11.16
	QPSK	3625.0	V	108	97	6.91	1 / 26	4.22	11.13	0.013	23.00	-11.87
	QPSK	3690.0	V	114	106	6.63	1 / 26	1.34	7.97	0.006	23.00	-15.03
	16-QAM	3560.0	V	110	101	7.14	1 / 79	3.83	10.97	0.013	23.00	-12.03
40 MHz	QPSK (CP-OFDM)	3570.0	V	110	101	7.14	1/79	1.68	8.82	0.008	23.00	-14.18

Table 7-15. EIRP Data (NR Band n48 Ant C) – Open

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 98 of 138

V3.0 1/6/2022

7.7 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 – Section 5.5.4

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Max Hold (In cases where the level is within 2dB of the limit, the final measurement is taken using triggering/gating and trace averaging.)
7. The trace was allowed to stabilize

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 99 of 138

V3.0 1/6/2022

Test Setup

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

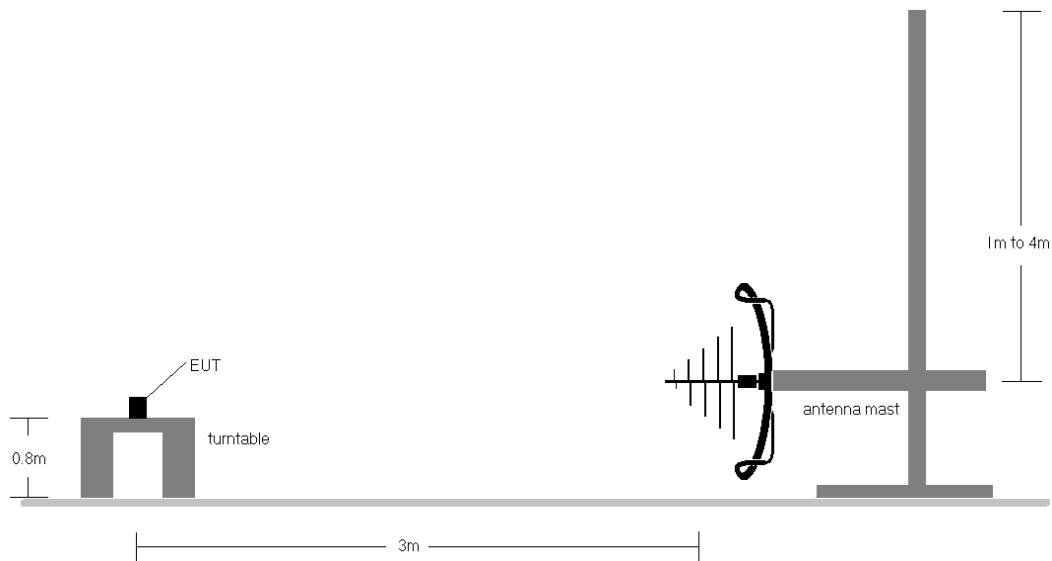


Figure 7-6. Test Instrument & Measurement Setup < 1GHz

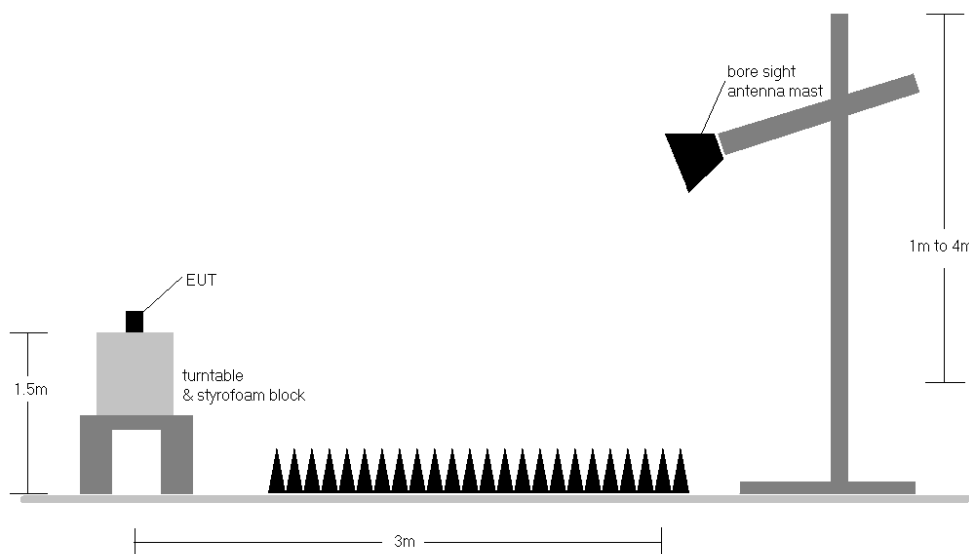


Figure 7-7. Test Instrument & Measurement Setup >1 GHz

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 100 of 138

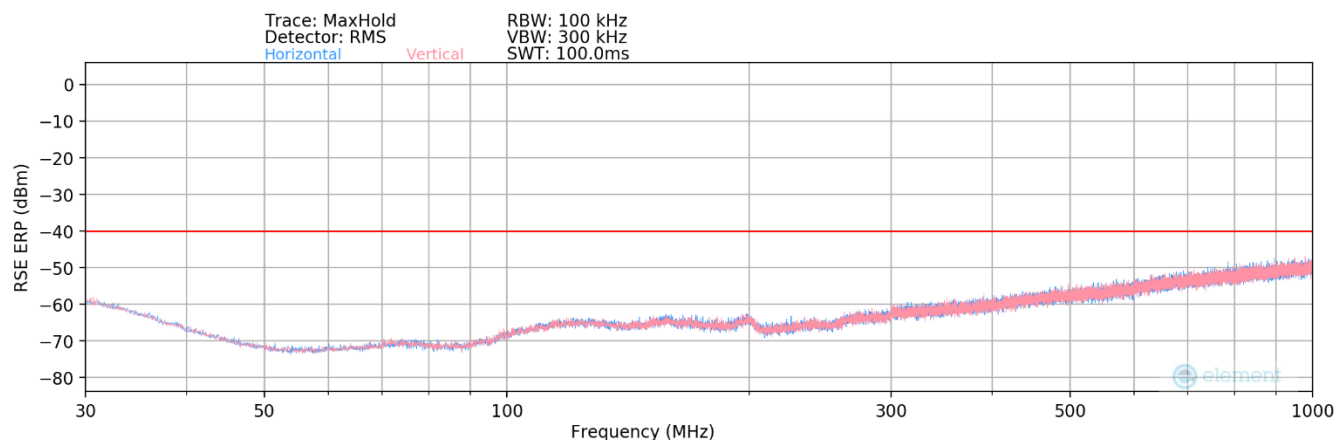
V3.0 1/6/2022

Test Notes

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V/m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V/m}) + 20\log D - 104.8$; where D is the measurement distance in meters.
- 2) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
- 8) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 101 of 138

LTE Band 48



Plot 7-137. Radiated Spurious Plot – 30 MHz-1 GHz (LTE Band 48) – Open

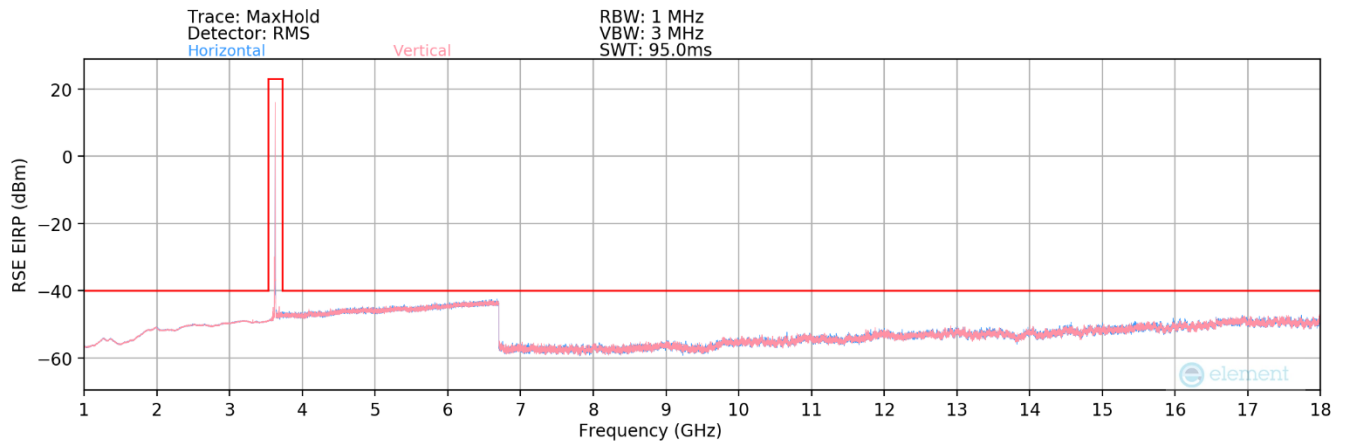
Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

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]
104.5	H	-	-	-85.66	15.77	37.11	-58.15	-40.00	-18.15
222.1	H	-	-	-83.29	18.75	42.46	-52.80	-40.00	-12.80
313.6	H	-	-	-84.70	21.63	43.93	-51.33	-40.00	-11.33

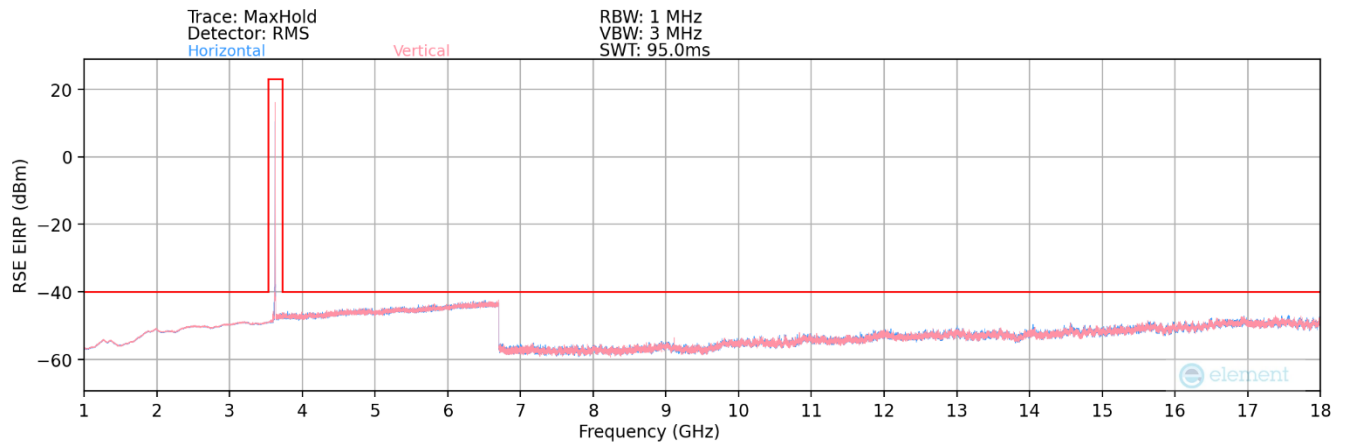
Table 7-16. Radiated Spurious Data (LTE Band 48) – Open

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 102 of 138

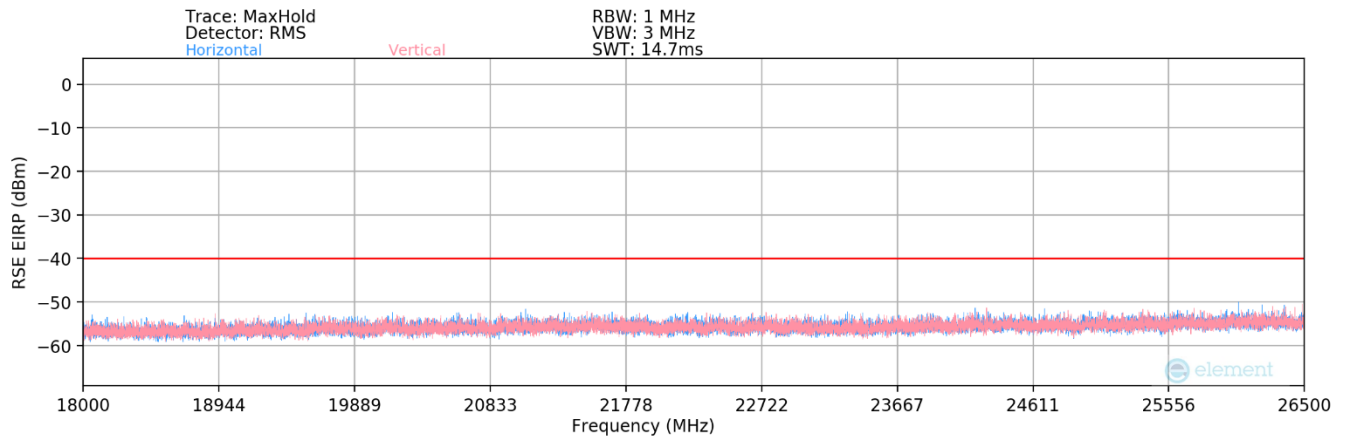
V3.0 1/6/2022



Plot 7-138. Radiated Spurious Plot – 1-18 GHz (LTE Band 48) – Open

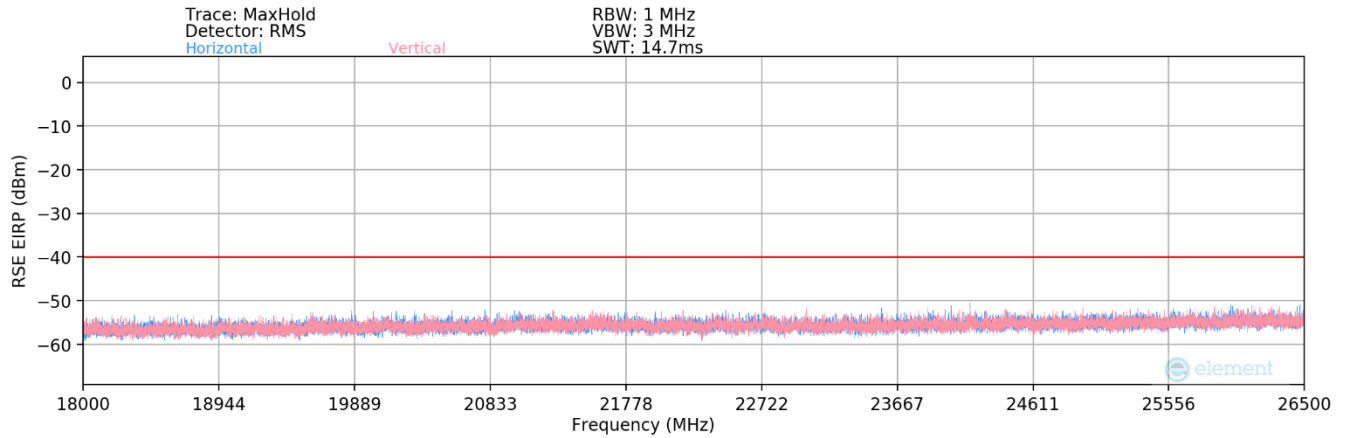


Plot 7-139. Radiated Spurious Plot – 1-18 GHz (LTE Band 48) – Closed

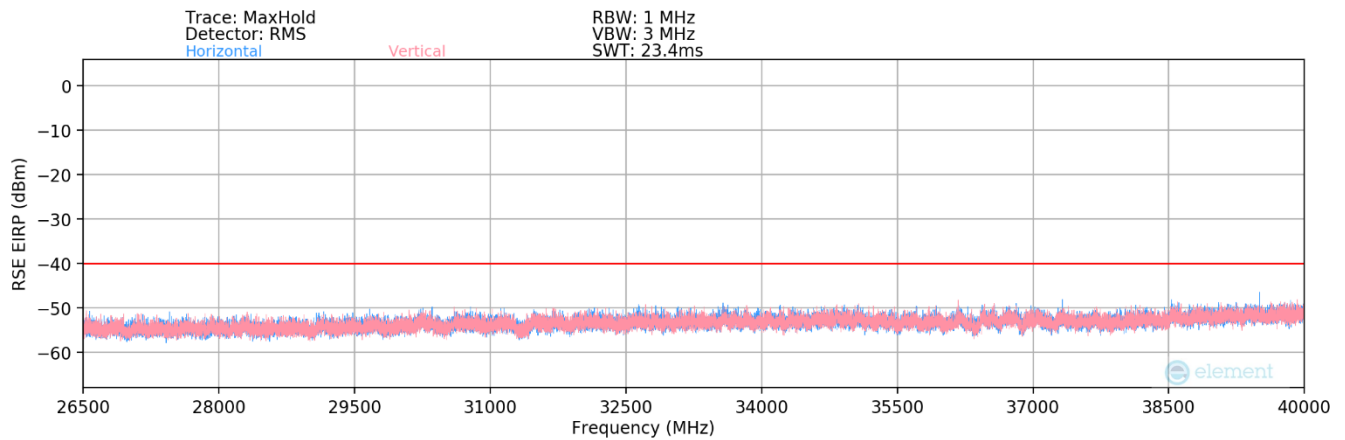


Plot 7-140. Radiated Spurious Plot – 18-26.5 GHz (LTE Band 48) – Open

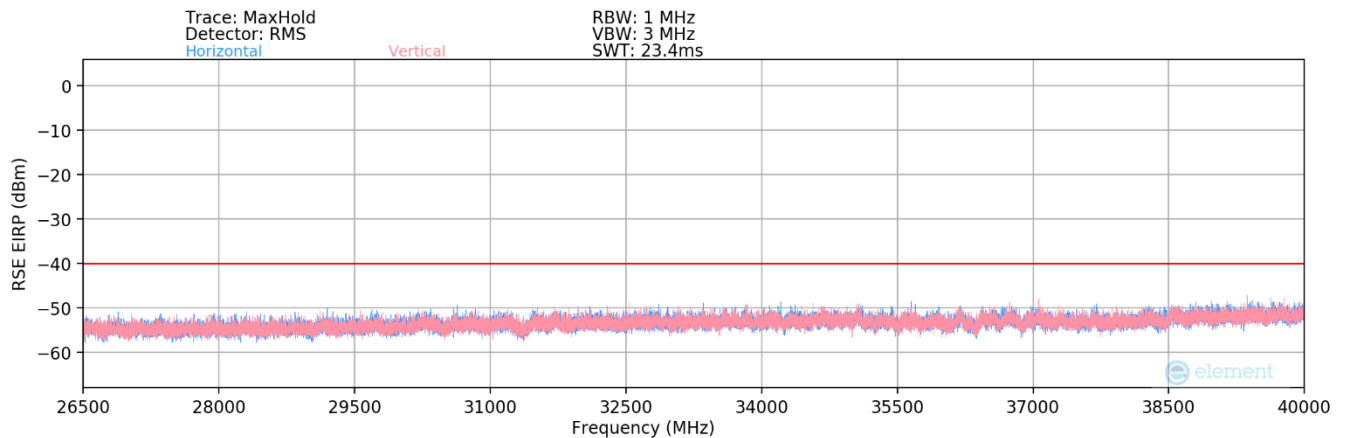
FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 103 of 138



Plot 7-141. Radiated Spurious Plot – 18-26.5 GHz (LTE Band 48) – Closed



Plot 7-142. Radiated Spurious Plot – 16.5-40 GHz (LTE Band 48) – Open



Plot 7-143. Radiated Spurious Plot – 26.5-40 GHz (LTE Band 48) – Closed

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 104 of 138

Bandwidth (MHz):	20
Frequency (MHz):	3560.0
Modulation Signal:	QPSK
RB Config (Size / 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]
7120.0	H	382	123	-76.47	8.23	38.76	-56.50	-40.00	-16.50
10680.0	H	-	-	-79.46	12.63	40.17	-55.09	-40.00	-15.09
14240.0	H	-	-	-78.77	15.38	43.61	-51.65	-40.00	-11.65
17800.0	H	-	-	-79.34	18.10	45.76	-49.50	-40.00	-9.50

Table 7-17. Radiated Spurious Data (LTE Band 48 – Low Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3625.0
Modulation Signal:	QPSK
RB Config (Size / 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]
7250.0	H	309	131	-74.91	7.61	39.70	-55.56	-40.00	-15.56
10875.0	H	295	152	-78.01	12.18	41.17	-54.08	-40.00	-14.08
14500.0	H	-	-	-79.29	15.49	43.20	-52.06	-40.00	-12.06
18125.0	H	-	-	-58.28	1.45	50.17	-54.63	-40.00	-14.63
21750.0	H	-	-	-58.99	3.79	51.80	-53.00	-40.00	-13.00

Table 7-18. Radiated Spurious Data (LTE Band 48 – Mid Channel)

Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / 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]
7380.0	H	164	245	-76.07	8.30	39.23	-56.02	-40.00	-16.02
11070.0	H	276	248	-73.31	12.57	46.26	-49.00	-40.00	-9.00
14760.0	H	-	-	-79.41	16.23	43.82	-51.44	-40.00	-11.44
18450.0	H	-	-	-57.66	1.91	51.25	-53.55	-40.00	-13.55
22140.0	H	-	-	-58.46	3.85	52.39	-52.41	-40.00	-12.41

Table 7-19. Radiated Spurious Data (LTE Band 48 – High Channel)

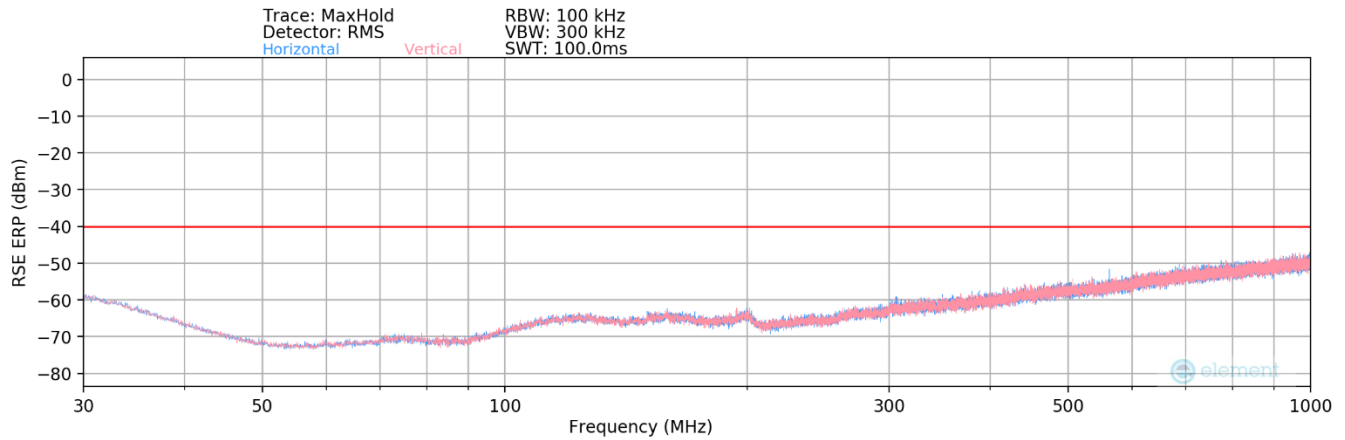
Bandwidth (MHz):	20
Frequency (MHz):	3690.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 50

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]
7380.0	H	221	102	-76.21	8.30	39.09	-56.16	-40.00	-16.16
11070.0	H	214	193	-74.83	12.57	44.74	-50.52	-40.00	-10.52
14760.0	H	-	-	-79.13	16.23	44.10	-51.16	-40.00	-11.16
18450.0	H	-	-	-58.02	1.91	50.89	-44.37	-40.00	-4.37
22140.0	H	-	-	-58.23	3.85	52.62	-42.64	-40.00	-2.64

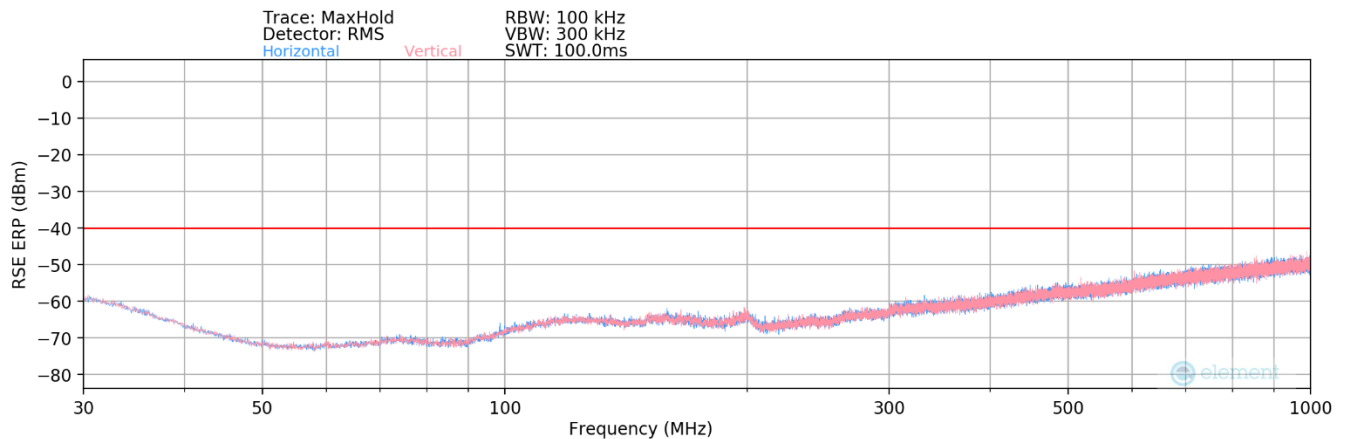
Table 7-20. Radiated Spurious Data with WCP (LTE Band 48)

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT				Approved by: Technical Manager	
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset			Page 105 of 138	

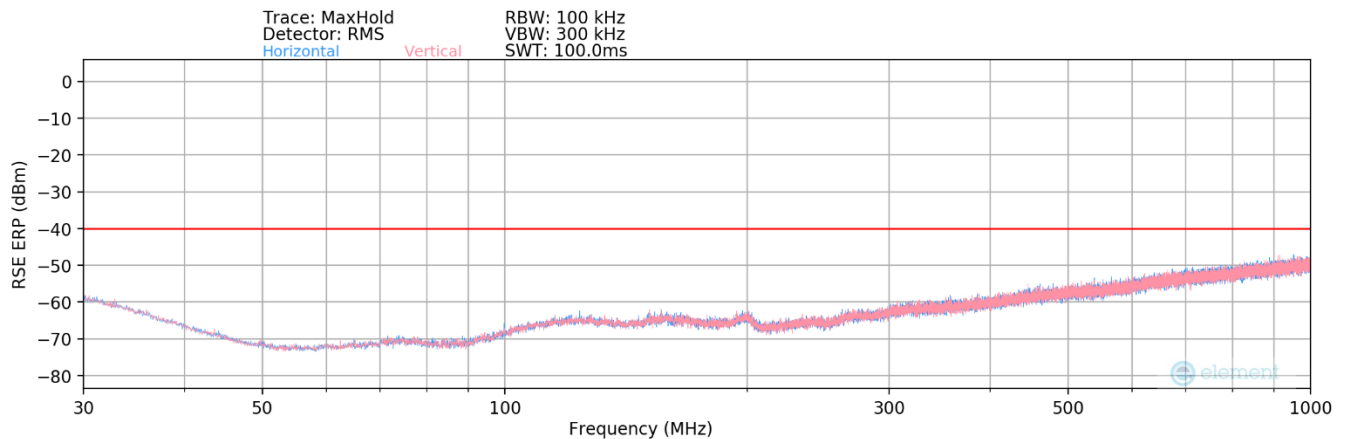
ULCA LB48



Plot 7-144. Radiated Spurious Plot – 30 MHz-1 GHz (ULCA LB48 – Low Channel) – Open



Plot 7-145. Radiated Spurious Plot – 30 MHz-1 GHz (ULCA LB48 – Mid Channel) – Open



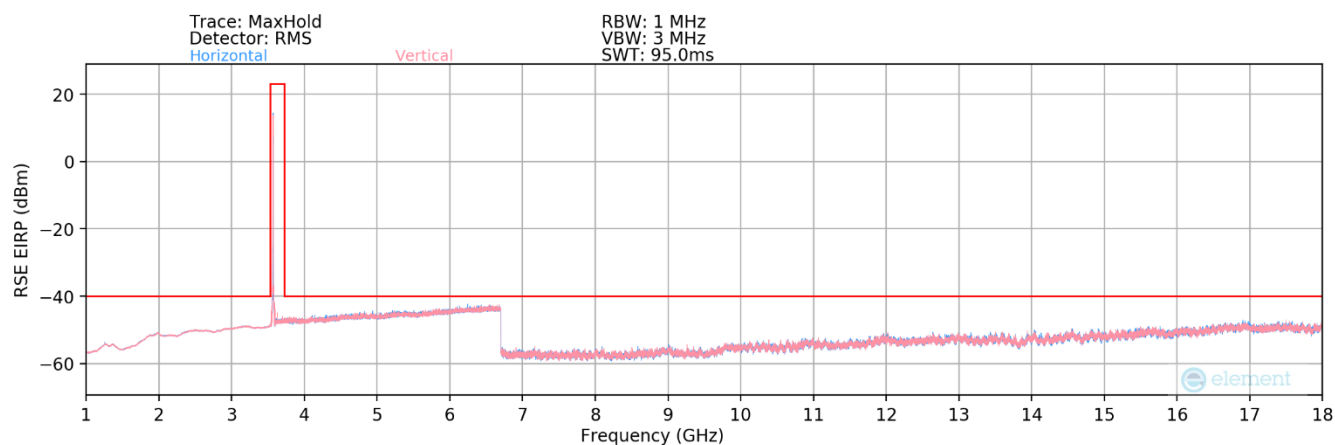
Plot 7-146. Radiated Spurious Plot – 30 MHz-1 GHz (ULCA LB48 – High Channel) – Open

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 106 of 138

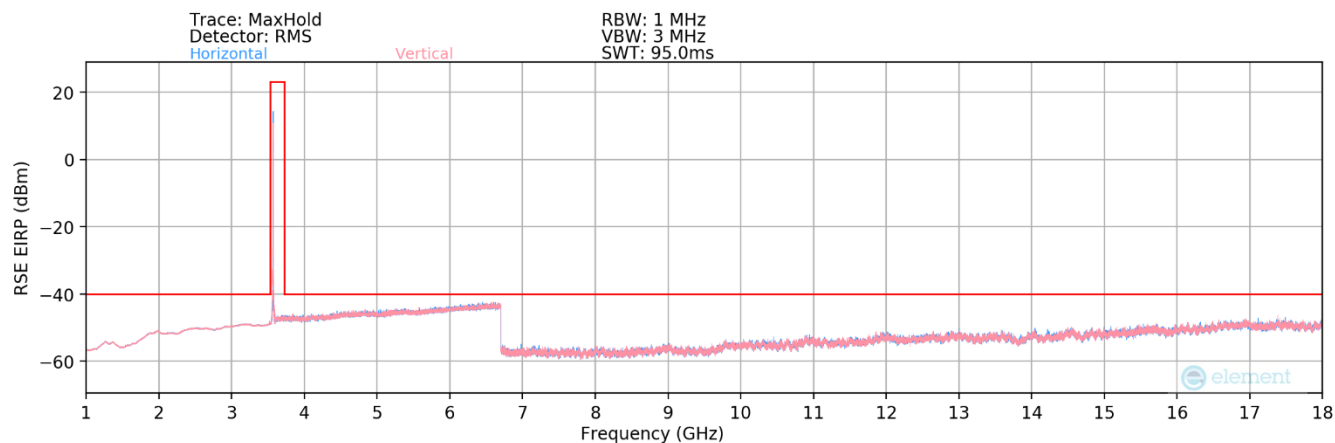
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

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]
101.6	H	-	-	-85.63	17.66	39.03	-56.23	-40.00	-16.23
197.5	H	-	-	-85.33	20.11	41.78	-53.48	-40.00	-13.48
501.3	H	-	-	-84.10	25.73	48.63	-46.63	-40.00	-6.63

Table 7-21. Radiated Spurious Data (ULCA LB48)

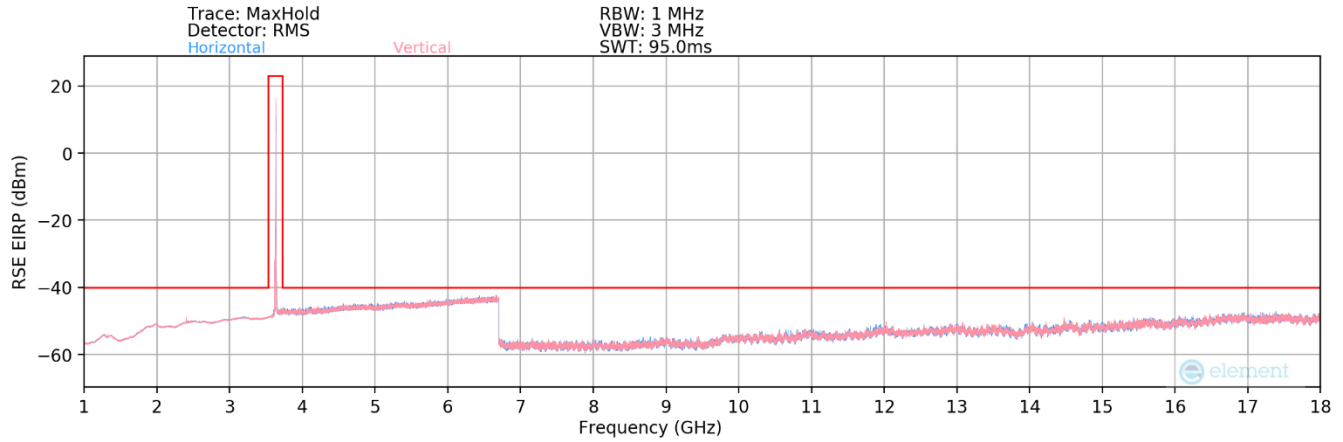


Plot 7-147. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – Low Channel) – Open

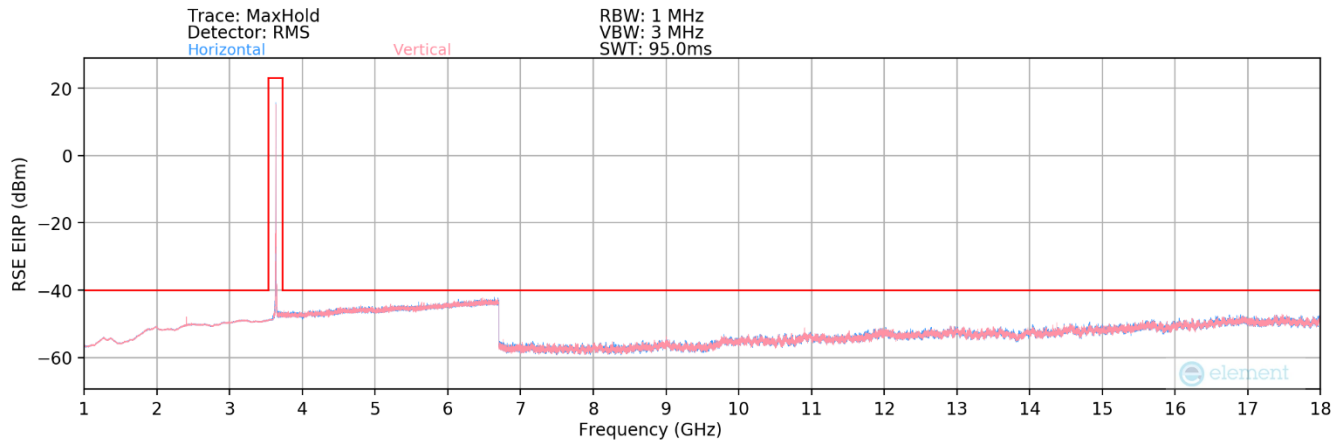


Plot 7-148. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – Low Channel) – Closed

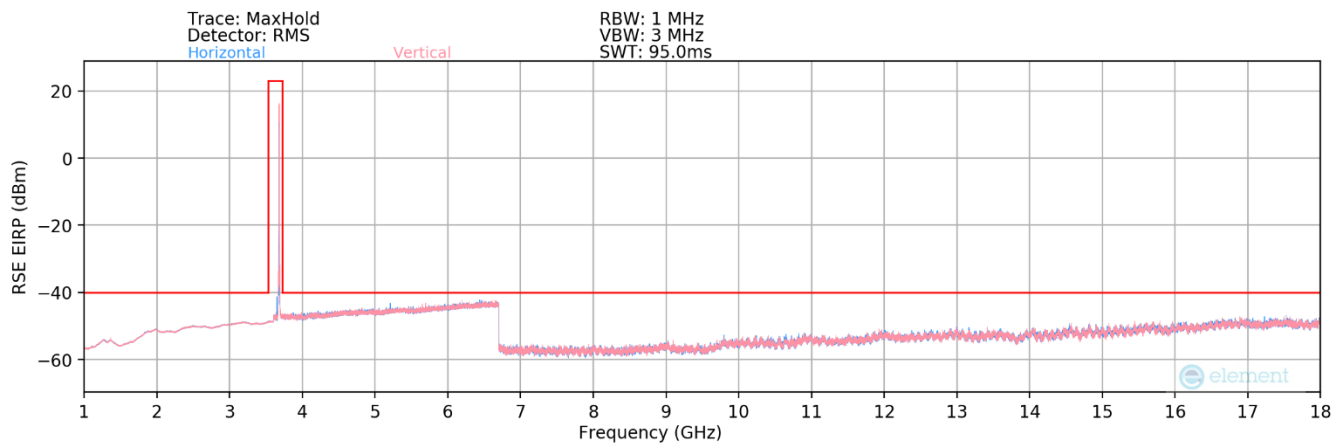
FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 107 of 138



Plot 7-149. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – Mid Channel) – Open

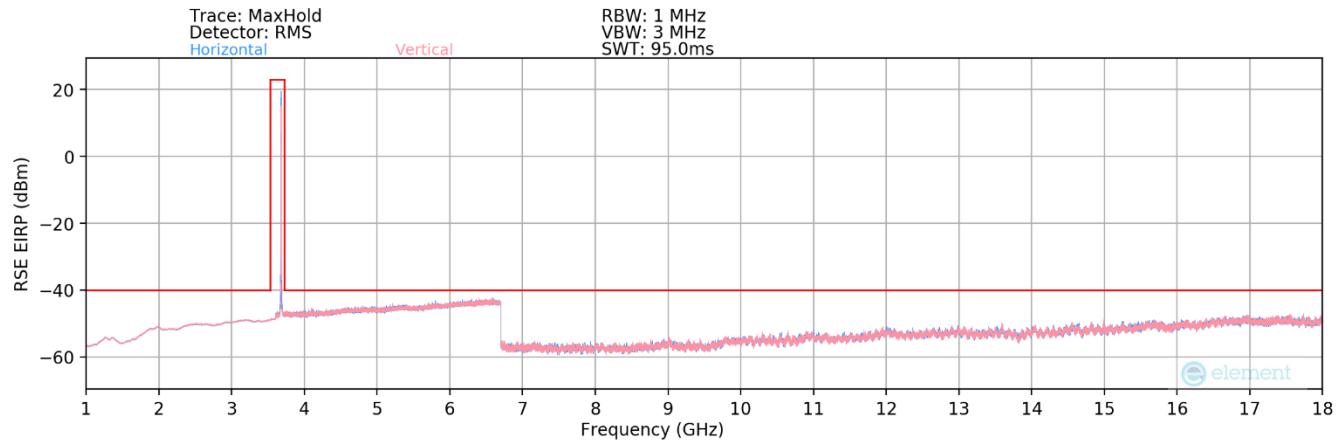


Plot 7-150. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – Mid Channel) – Closed



Plot 7-151. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – High Channel) – Open

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 108 of 138



Plot 7-152. Radiated Spurious Plot – 1-18 GHz (ULCA LB48 – High Channel) – Closed

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]
7120.0	H	-	-	-77.88	8.23	37.35	-57.91	-40.00	-17.91
10680.0	H	-	-	-78.49	12.63	41.14	-54.12	-40.00	-14.12
14240.0	H	-	-	-79.21	15.38	43.17	-52.09	-40.00	-12.09
17800.0	H	-	-	-80.38	18.10	44.72	-50.54	-40.00	-10.54

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

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]
7250.0	H	271	115	-72.51	7.61	42.10	-53.16	-40.00	-13.16
10875.0	H	-	-	-78.90	12.18	40.28	-54.97	-40.00	-14.97
14500.0	H	-	-	-79.51	15.49	42.98	-52.28	-40.00	-12.28

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

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 109 of 138

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3690.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3670.2
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]
7380.0	H	322	118	-73.65	8.30	41.65	-53.60	-40.00	-13.60
11070.0	H	-	-	-77.89	12.57	41.68	-53.58	-40.00	-13.58
14760.0	H	-	-	-79.08	16.23	44.15	-51.11	-40.00	-11.11

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

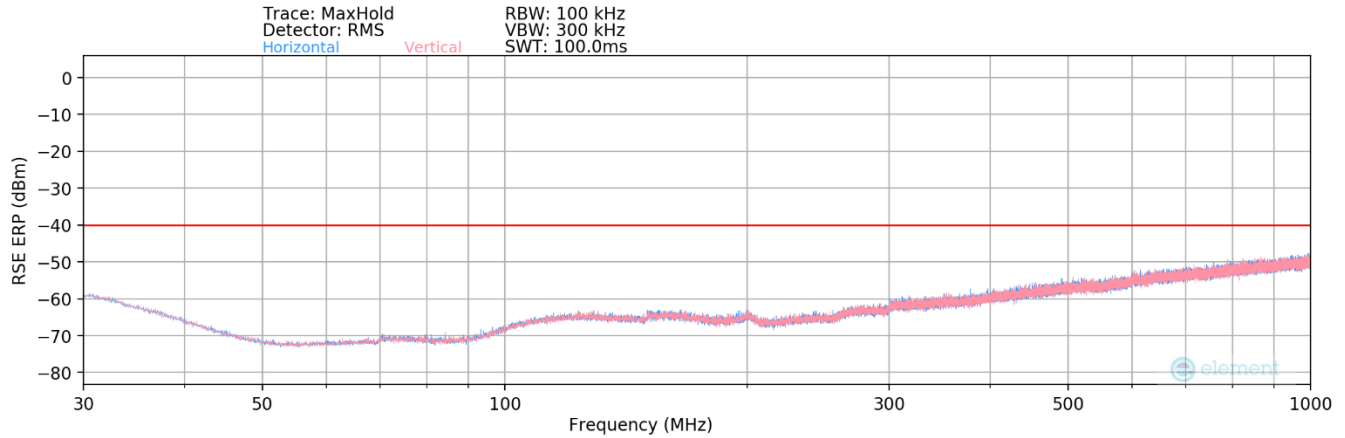
Case:	w/ Wireless Charging Pad
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	3625.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	3644.8
SCC RB / Offset:	1 / 0
Modulation Signal:	QPSK

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]
7250.0	H	-	-	-76.57	7.61	38.04	-57.22	-40.00	-17.22
10875.0	H	-	-	-78.35	12.18	40.83	-54.42	-40.00	-14.42
14500.0	H	-	-	-79.76	15.49	42.73	-52.53	-40.00	-12.53

Table 7-25. Radiated Spurious Data with WCP (ULCA LB48 – Mid Channel)

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 110 of 138

NR Band n48 – Ant F



Plot 7-153. Radiated Spurious Plot 30 MHz-1 GHz (NR Band n48– Ant F) – Open

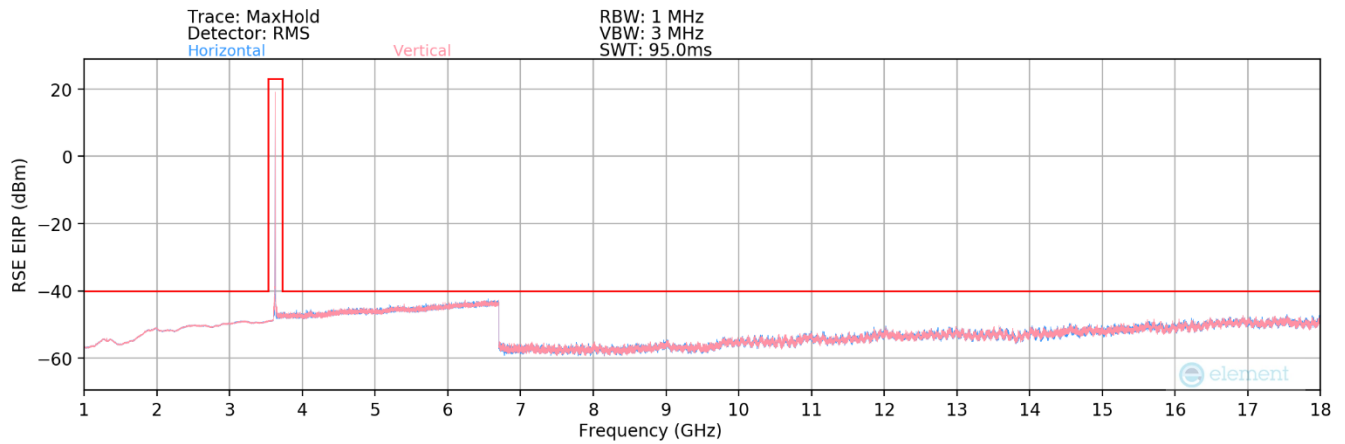
Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

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]
75.2	H	-	-	-87.67	14.42	33.75	-61.51	-40.00	-21.51
205.0	H	-	-	-85.82	18.37	39.55	-55.71	-40.00	-15.71
301.4	H	-	-	-86.21	21.16	41.95	-53.31	-40.00	-13.31

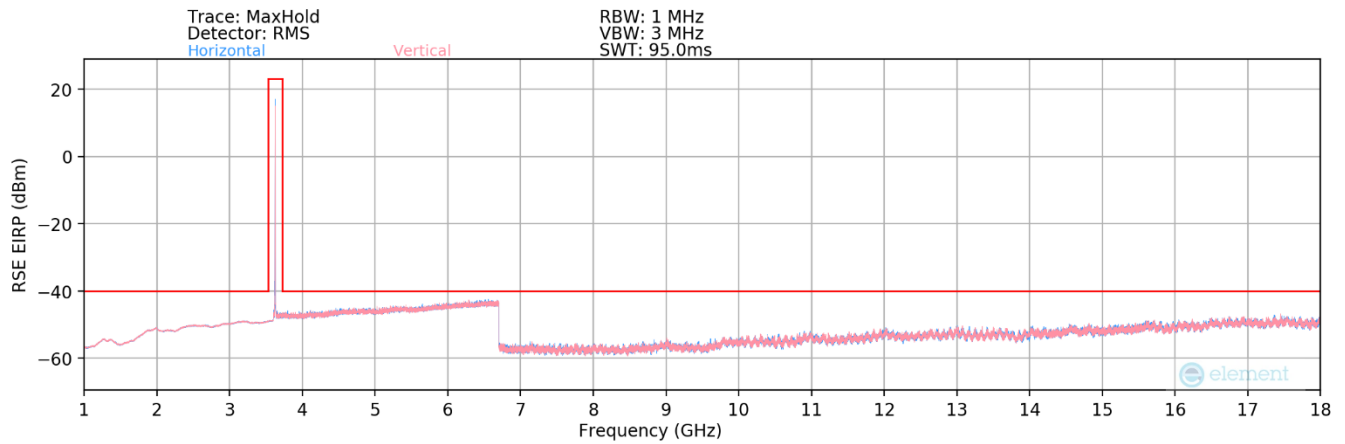
Table 7-26. Radiated Spurious Data (NR Band n48 – Ant F) – Open

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 111 of 138

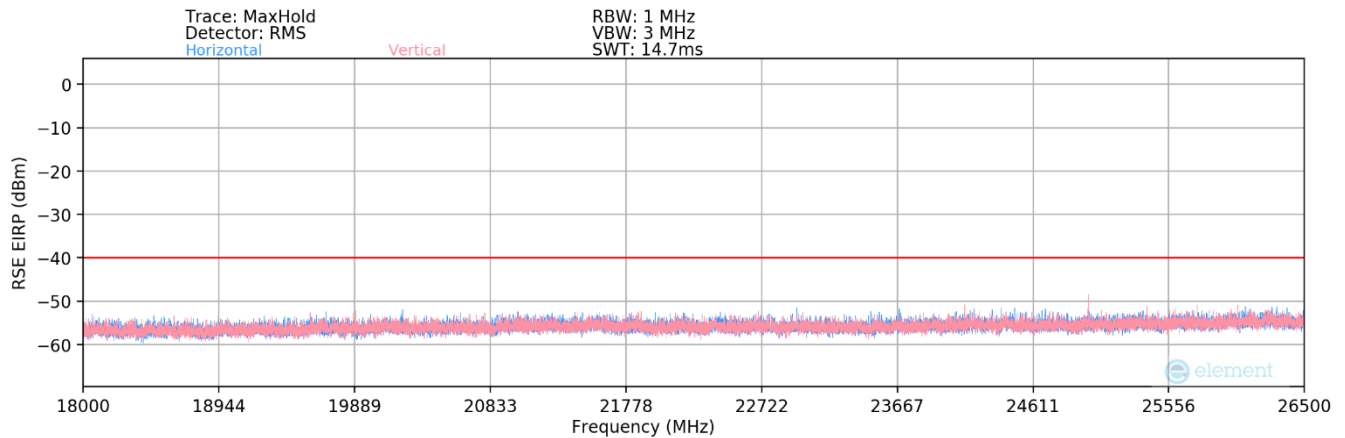
V3.0 1/6/2022



Plot 7-154. Radiated Spurious Plot 1-18 GHz (NR Band n48- Ant F) – Open

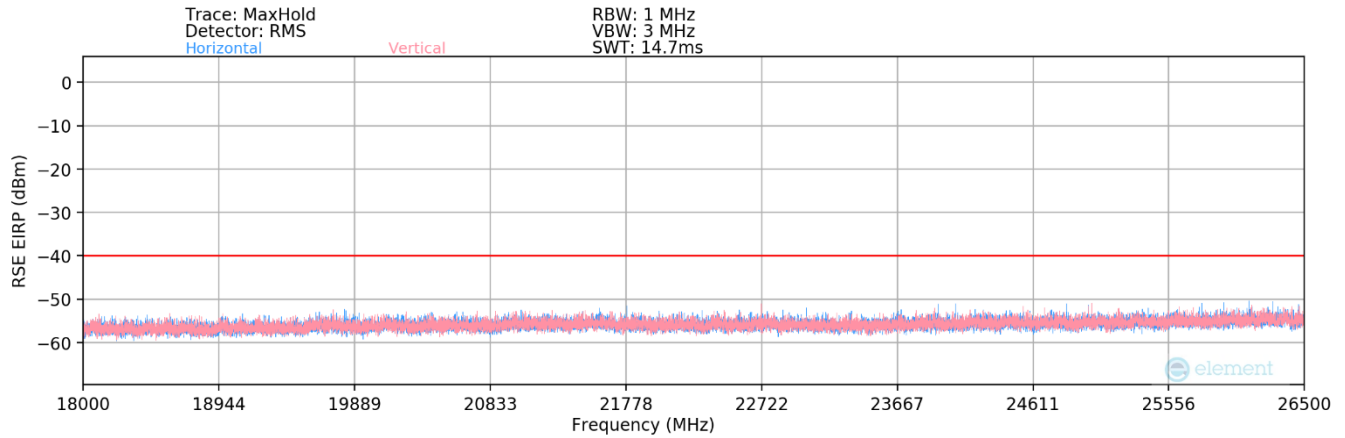


Plot 7-155. Radiated Spurious Plot 1-18 GHz (NR Band n48- Ant F) – Closed

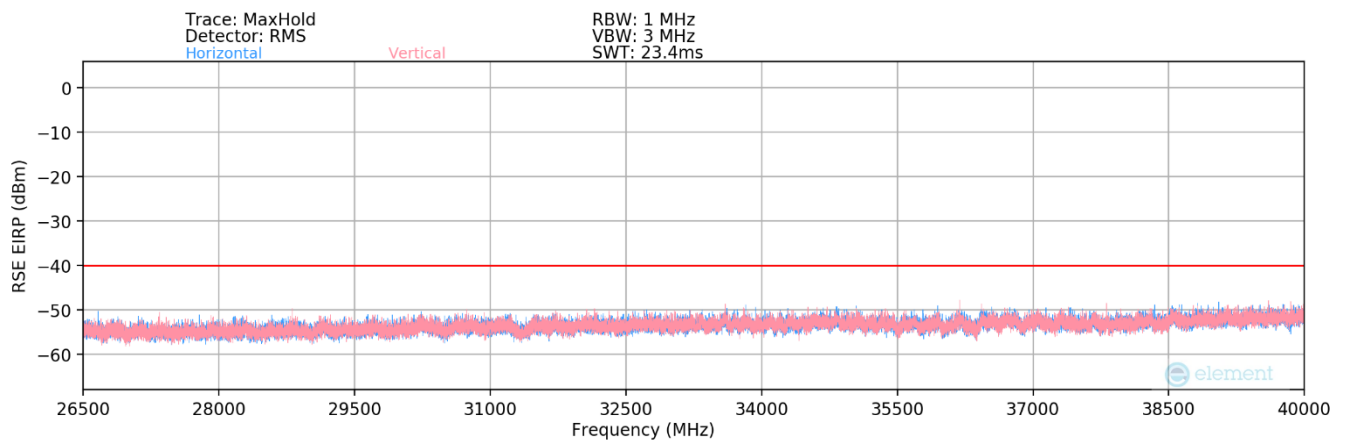


Plot 7-156. Radiated Spurious Plot 18-26.5 GHz (NR Band n48- Ant F) – Open

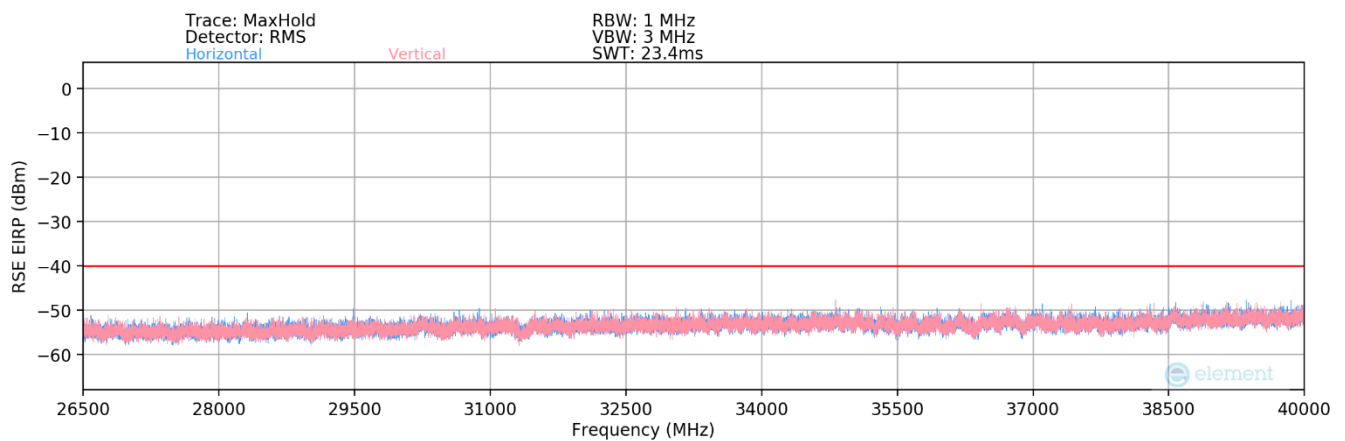
FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 112 of 138



Plot 7-157. Radiated Spurious Plot 18-26.5 GHz (NR Band n48- Ant F) – Closed



Plot 7-158. Radiated Spurious Plot 26.5-40 GHz (NR Band n48- Ant F) – Open



Plot 7-159. Radiated Spurious Plot 26.5-40 GHz (NR Band n48- Ant F) – Closed

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 113 of 138

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]
7140.0	H	397	185	-76.22	8.53	39.31	-55.95	-40.00	-15.95
10710.0	H	-	-	-78.83	12.30	40.47	-54.79	-40.00	-14.79
14280.0	H	-	-	-79.47	14.66	42.19	-53.07	-40.00	-13.07
17850.0	H	-	-	-79.93	18.17	45.24	-50.01	-40.00	-10.01

Table 7-27. Radiated Spurious Data (NR Band n48 – Low Channel - Ant F) – Open

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]
7250.0	H	358	181	-75.59	7.61	39.02	-56.24	-40.00	-16.24
10875.0	H	-	-	-77.86	12.18	41.32	-53.93	-40.00	-13.93
14500.0	H	-	-	-78.47	15.49	44.02	-51.24	-40.00	-11.24

Table 7-28. Radiated Spurious Data (NR Band n48 – Mid Channel - Ant F) – Open

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]
7360.0	H	354	223	-74.73	8.16	40.43	-54.83	-40.00	-14.83
11040.0	H	-	-	-78.27	12.33	41.06	-54.19	-40.00	-14.19
14720.0	H	-	-	-79.63	16.13	43.50	-51.76	-40.00	-11.76

Table 7-29. Radiated Spurious Data (NR Band n48 – High Channel - Ant F) – Open

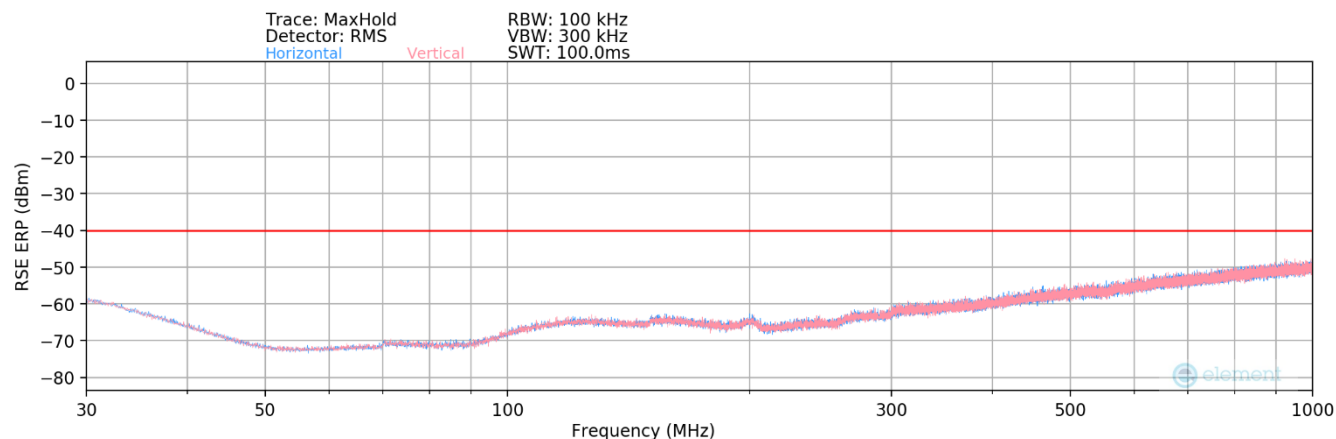
Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

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]
7360.0	H	346	235	-76.68	8.16	38.48	-56.78	-40.00	-16.78
11040.0	H	-	-	-78.33	12.33	41.00	-54.25	-40.00	-14.25
14720.0	H	-	-	-79.65	16.13	43.48	-51.78	-40.00	-11.78

Table 7-30. Radiated Spurious Data with WCP (NR Band n48 – Ant F) – Open

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 114 of 138

NR Band n48 – Ant I



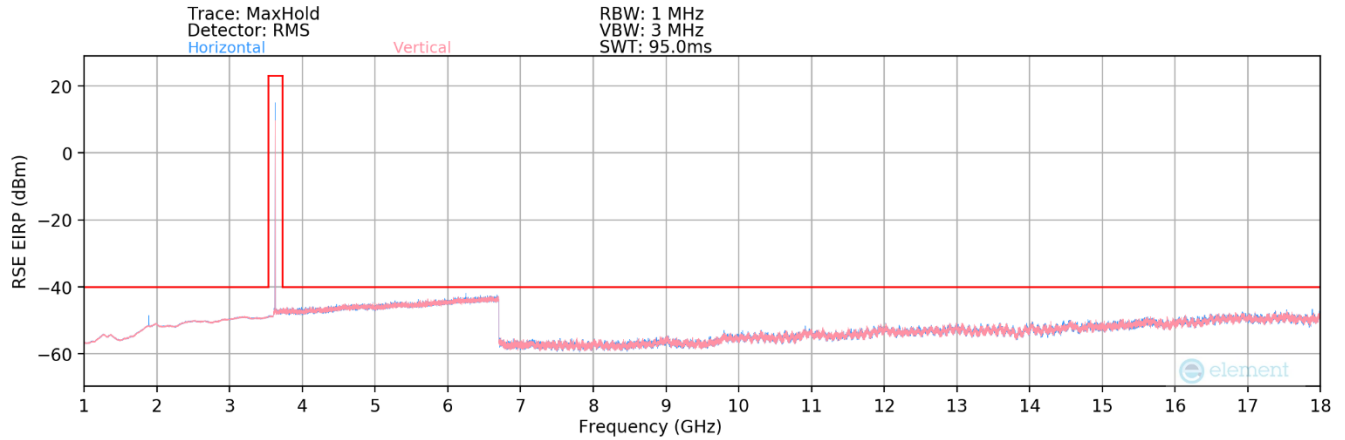
Plot 7-160. Radiated Spurious Plot 30 MHz-1 GHz (NR Band n48– Ant I) – Open

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

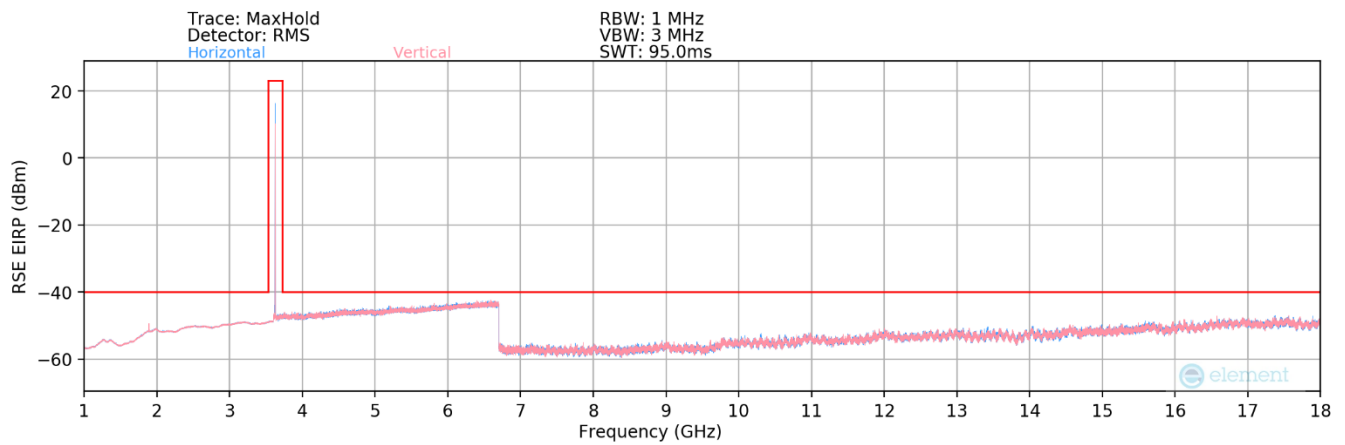
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
61.21	H	-	-	-86.81	14.09	34.28	-60.98	-40.00	-20.98
104.88	H	-	-	-86.45	18.43	38.98	-56.27	-40.00	-16.27
199.47	H	-	-	-85.67	19.23	40.56	-54.70	-40.00	-14.70

Table 7-31. Radiated Spurious Data (NR Band n48 – Ant I) – Open

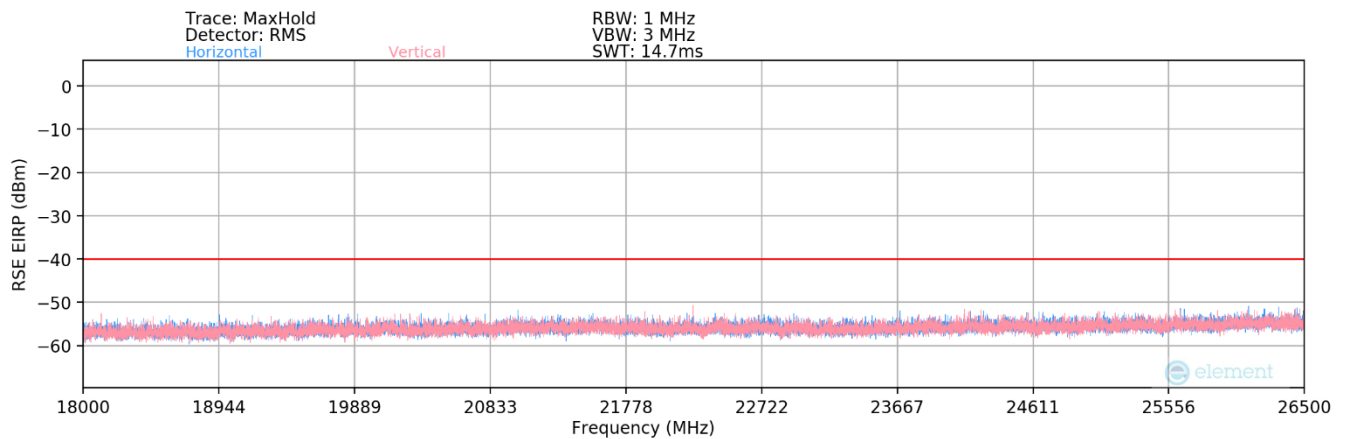
FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 115 of 138



Plot 7-161. Radiated Spurious Plot 1-18 GHz (NR Band n48- Ant I) - Open

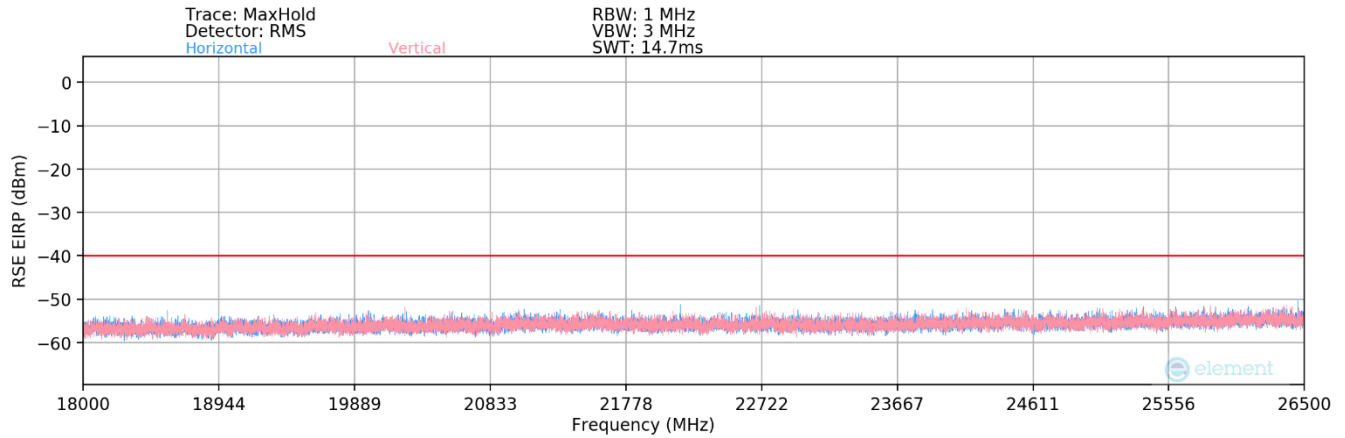


Plot 7-162. Radiated Spurious Plot 1-18 GHz (NR Band n48- Ant I) - Closed

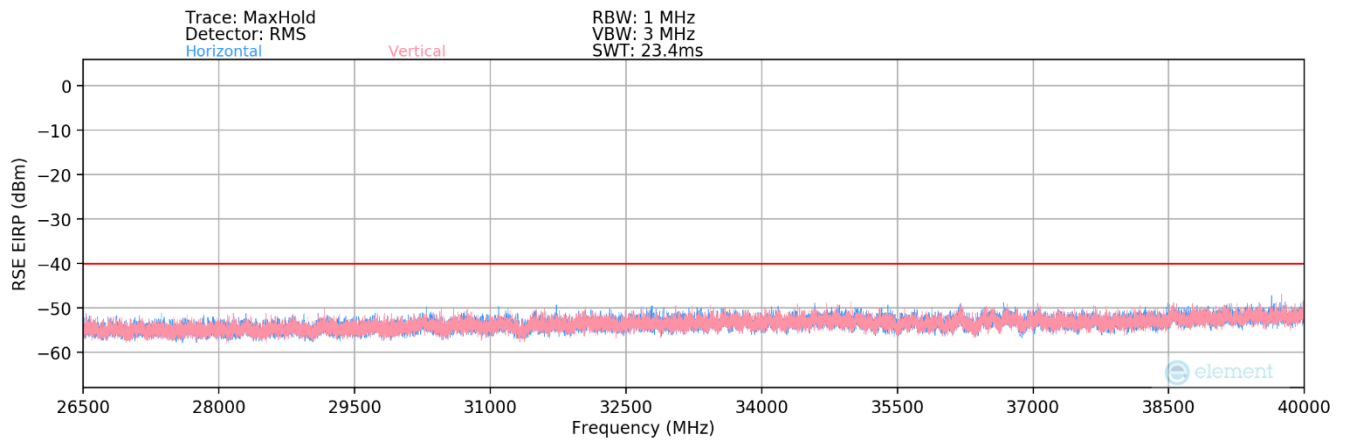


Plot 7-163. Radiated Spurious Plot 18-26.5 GHz (NR Band n48- Ant I) - Open

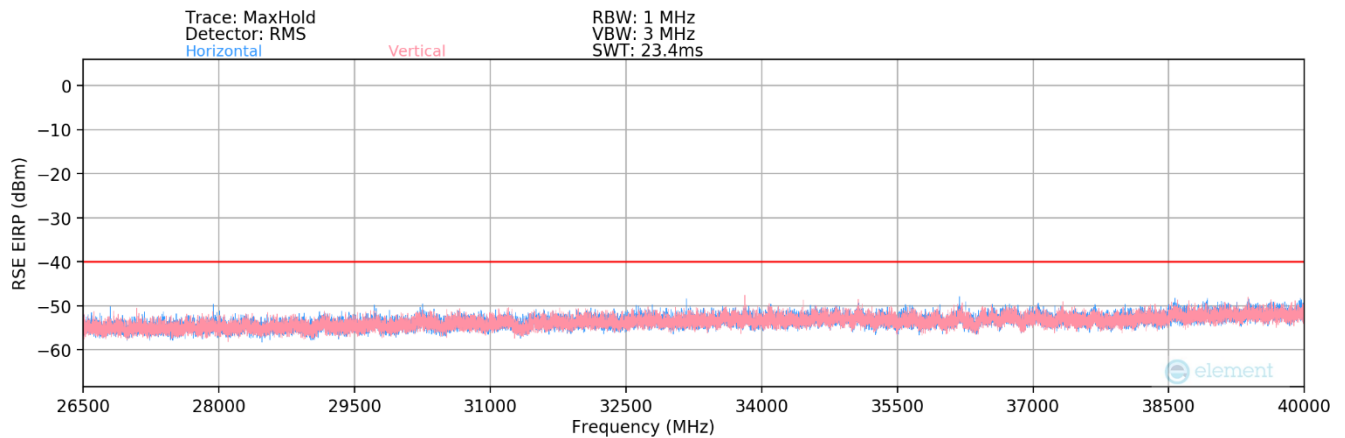
FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 116 of 138



Plot 7-164. Radiated Spurious Plot 18-26.5 GHz (NR Band n48- Ant I) – Closed



Plot 7-165. Radiated Spurious Plot 26.5-40 GHz (NR Band n48- Ant I) – Open



Plot 7-166. Radiated Spurious Plot 26.5-40 GHz (NR Band n48- Ant I) – Closed

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 117 of 138

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	H	280.00	301.00	-75.96	8.53	39.57	-55.69	-40.00	-15.69
10710.00	H	-	-	-78.61	12.30	40.69	-54.57	-40.00	-14.57
14280.00	H	-	-	-78.21	14.66	43.45	-51.81	-40.00	-11.81
17850.00	H	-	-	-79.86	18.17	45.31	-49.94	-40.00	-9.94

Table 7-32. Radiated Spurious Data (NR Band n48 – Low Channel – Ant I) – Open

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	H	262.00	307.00	-74.98	7.61	39.63	-55.63	-40.00	-15.63
10875.00	H	-	-	-78.25	12.18	40.93	-54.32	-40.00	-14.32
14500.00	H	-	-	-79.86	15.49	42.63	-52.63	-40.00	-12.63

Table 7-33. Radiated Spurious Data (NR Band n48 – Mid Channel – Ant I) – Open

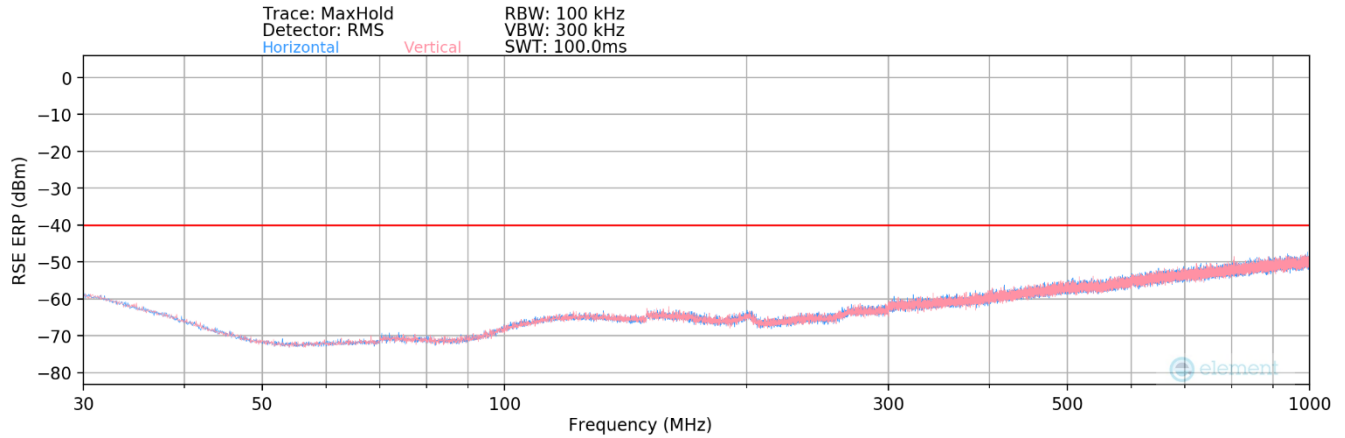
Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

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	H	276.00	310.00	-75.63	8.16	39.53	-55.73	-40.00	-15.73
11040.00	H	-	-	-78.57	12.33	40.76	-54.49	-40.00	-14.49
14720.00	H	-	-	-78.93	16.13	44.20	-51.06	-40.00	-11.06

Table 7-34. Radiated Spurious Data (NR Band n48 – High Channel – Ant I) – Open

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 118 of 138

NR Band n48 – Ant E



Plot 7-167. Radiated Spurious Plot 30 MHz-1 GHz (NR Band n48– Ant E) – Open

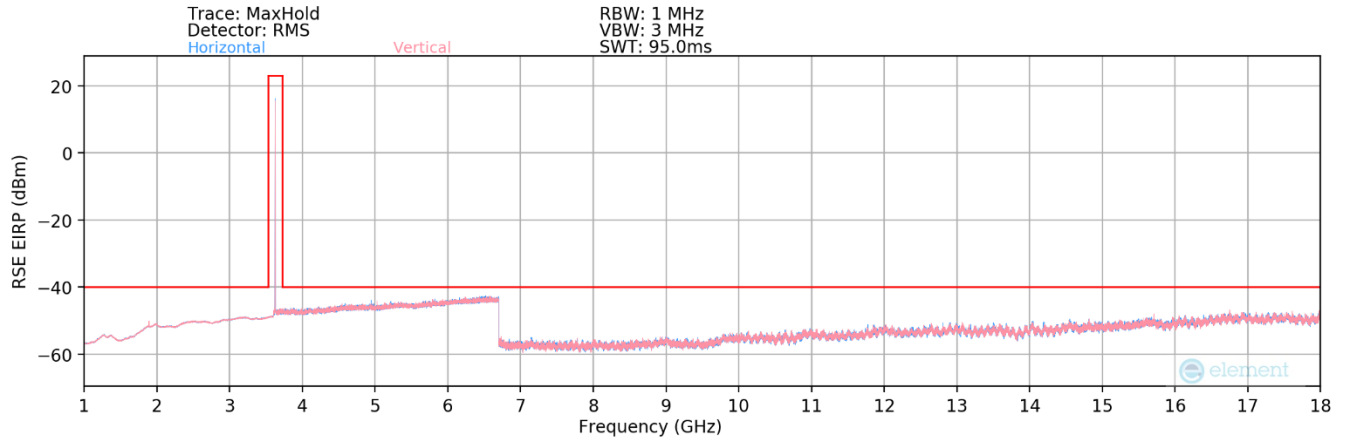
Bandwidth (MHz):	40
Frequency (MHz):	3570.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

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]
108.51	H	-	-	-85.51	19.03	40.52	-54.74	-40.00	-14.74
308.00	H	-	-	-86.49	21.17	41.68	-53.58	-40.00	-13.58
390.38	H	-	-	-86.47	22.80	43.33	-51.93	-40.00	-11.93

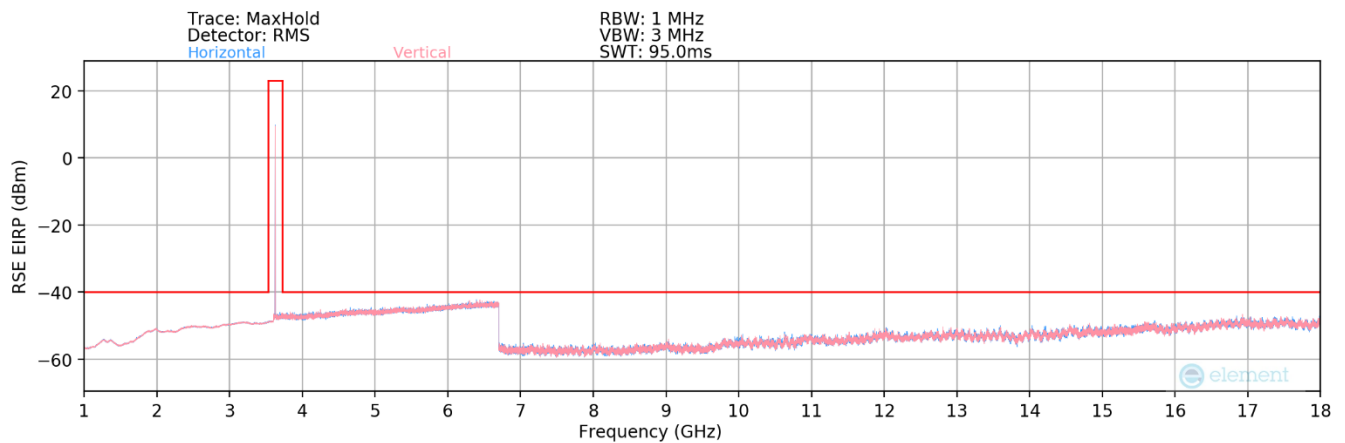
Table 7-35. Radiated Spurious Data (NR Band n48 – Ant E) – Open

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset		Page 119 of 138

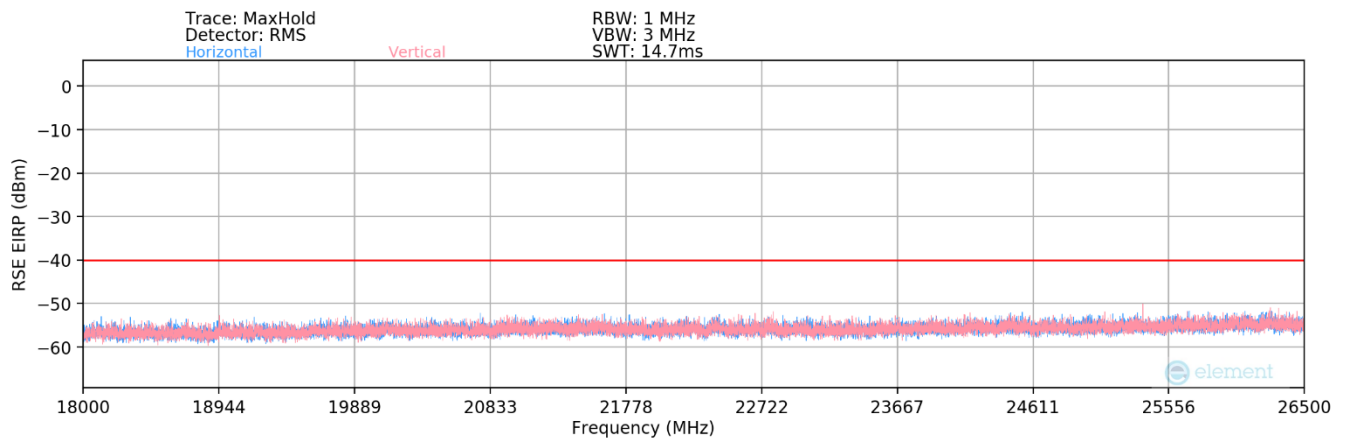
V3.0 1/6/2022



Plot 7-168. Radiated Spurious Plot 1-18 GHz (NR Band n48- Ant E) – Open

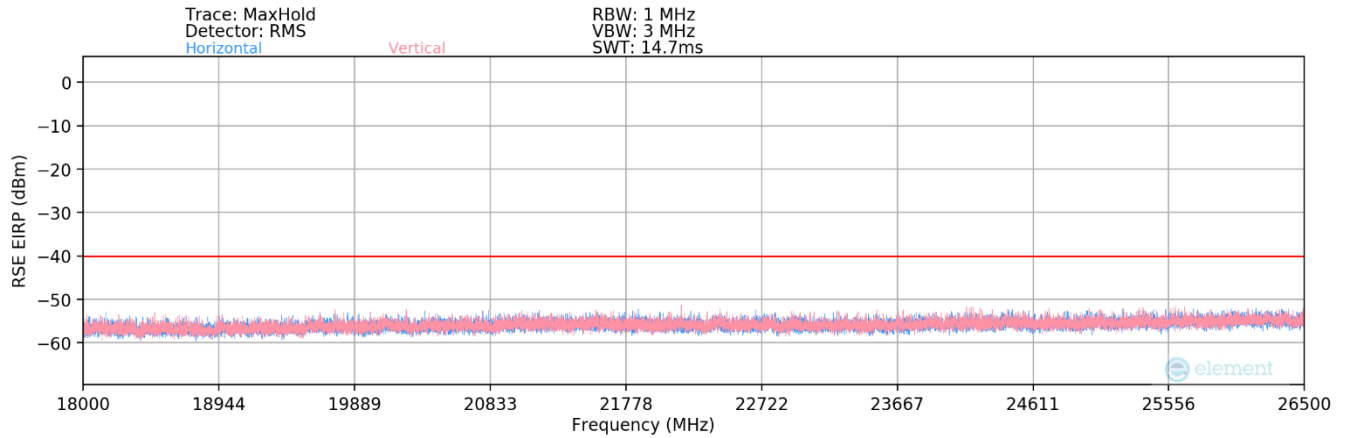


Plot 7-169. Radiated Spurious Plot 1-18 GHz (NR Band n48- Ant E) – Closed

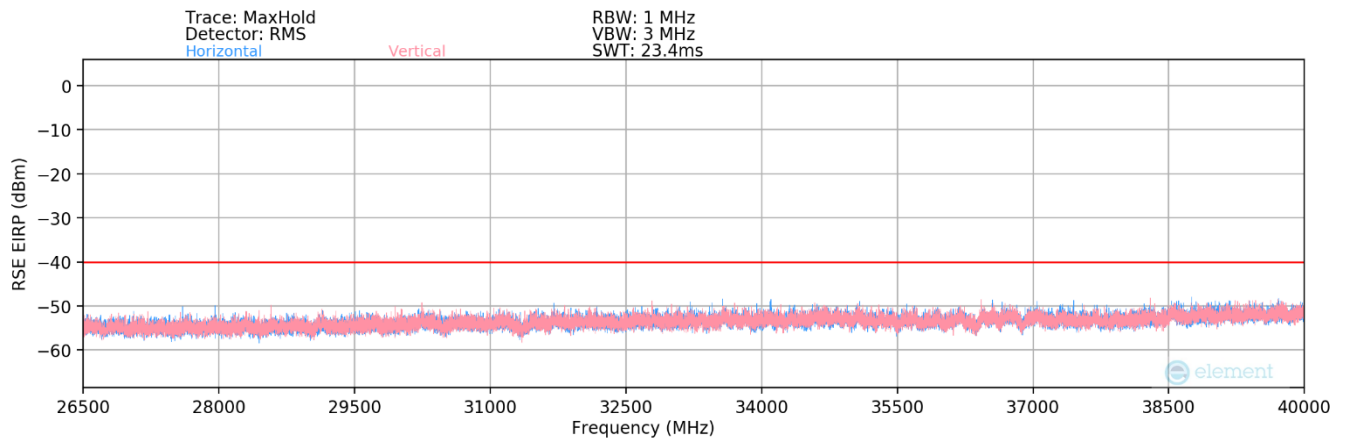


Plot 7-170. Radiated Spurious Plot 18-26.5 GHz (NR Band n48- Ant E) – Open

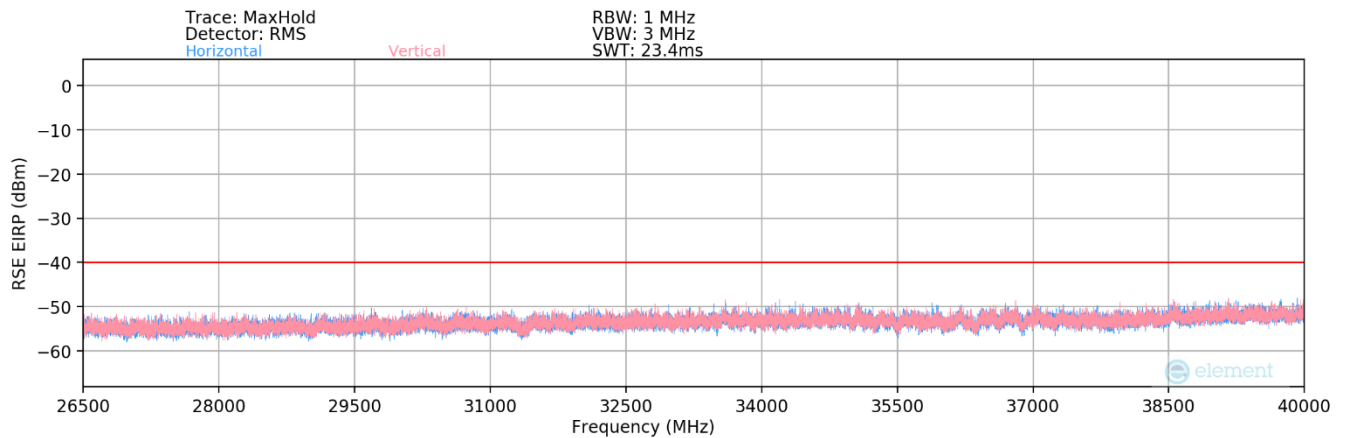
FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 120 of 138



Plot 7-171. Radiated Spurious Plot 18-26.5 GHz (NR Band n48- Ant E) – Closed



Plot 7-172. Radiated Spurious Plot 26.5-40 GHz (NR Band n48- Ant E) – Open



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

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 121 of 138

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	H	-	-	-76.87	8.53	38.66	-56.60	-40.00	-16.60
10710.00	H	-	-	-78.18	12.30	41.12	-54.14	-40.00	-14.14
14280.00	H	-	-	-78.75	14.66	42.91	-52.35	-40.00	-12.35
17850.00	H	-	-	-79.71	18.17	45.46	-49.79	-40.00	-9.79

Table 7-36. Radiated Spurious Data (NR Band n48 – Low Channel – Ant E) – Open

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	H	-	-	-76.75	7.61	37.86	-57.40	-40.00	-17.40
10875.00	H	-	-	-78.12	12.18	41.06	-54.19	-40.00	-14.19
14500.00	H	-	-	-79.26	15.49	43.23	-52.03	-40.00	-12.03

Table 7-37. Radiated Spurious Data (NR Band n48 – Mid Channel – Ant E) – Open

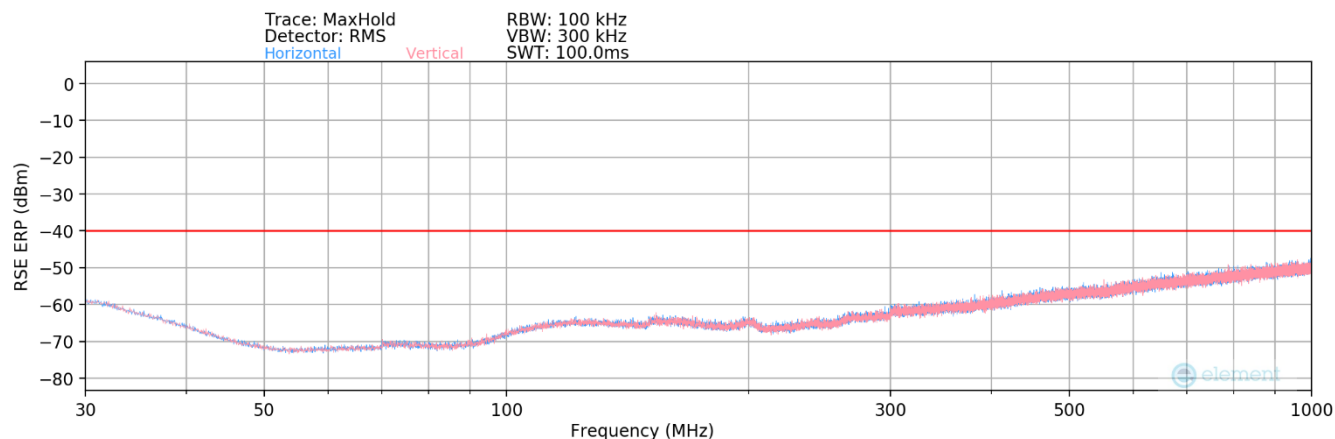
Bandwidth (MHz):	40
Frequency (MHz):	3680.0
Modulation Signal:	QPSK
RB Config (Size / Offset):	1 / 53

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	H	-	-	-76.95	8.16	38.21	-57.05	-40.00	-17.05
11040.00	H	-	-	-78.03	12.33	41.30	-53.95	-40.00	-13.95
14720.00	H	-	-	-79.41	16.13	43.72	-51.54	-40.00	-11.54

Table 7-38. Radiated Spurious Data (NR Band n48 – High Channel – Ant E) – Open

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 122 of 138

NR Band n48 – Ant C



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

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]
67.05	H	-	-	-86.63	14.40	34.77	-60.49	-40.00	-20.49
155.32	H	-	-	-86.37	19.54	40.17	-55.09	-40.00	-15.09
241.58	H	-	-	-85.96	18.70	39.74	-55.51	-40.00	-15.51

Table 7-39. Radiated Spurious Data (NR Band n48 – Ant C) – Open

FCC ID: A3LSMF721U	PART 96 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204080051-08.A3L	Test Dates: 4/8/2022 - 6/23/2022	EUT Type: Portable Handset	Page 123 of 138

V3.0 1/6/2022