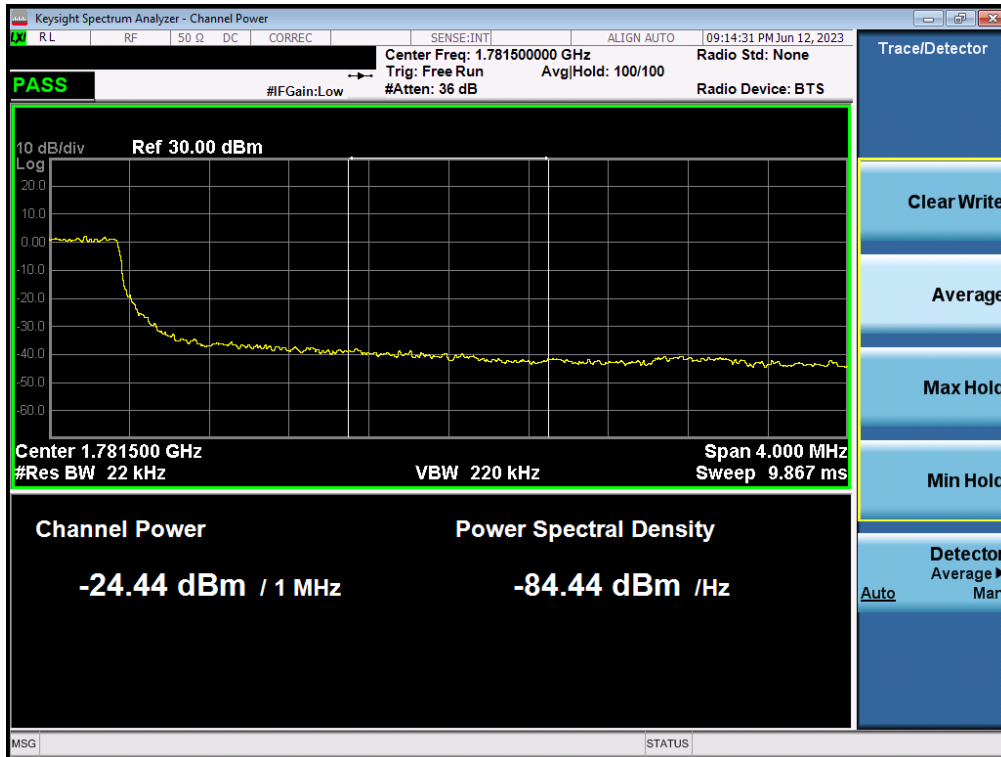


Plot 7-181. Upper Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB - ANT F)



Plot 7-182. Upper Extended Band Edge Plot (LTE Band 66 - 3MHz QPSK – Full RB - ANT F)

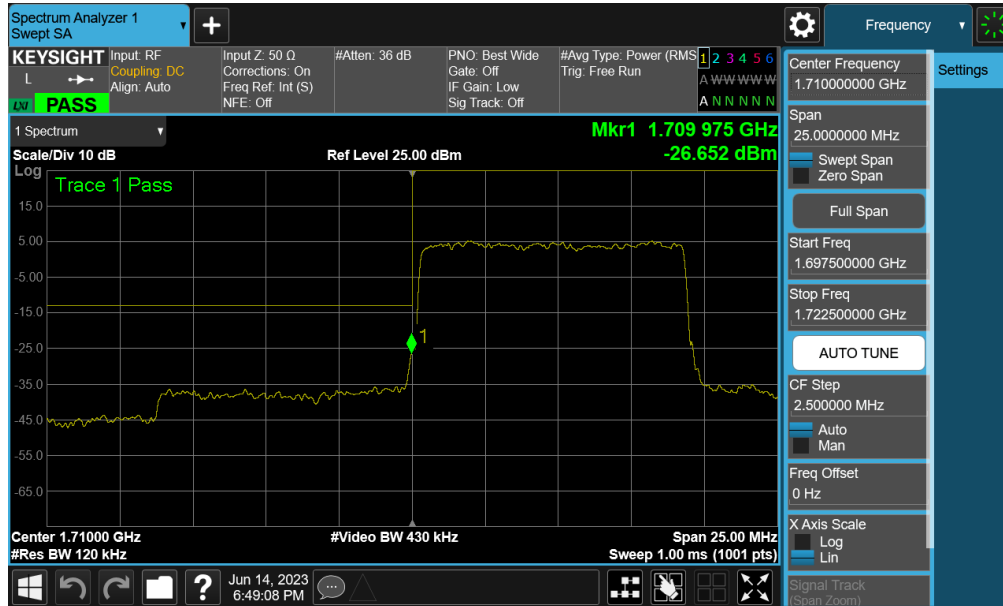
FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 134 of 200

NR Band n66 – ANT F

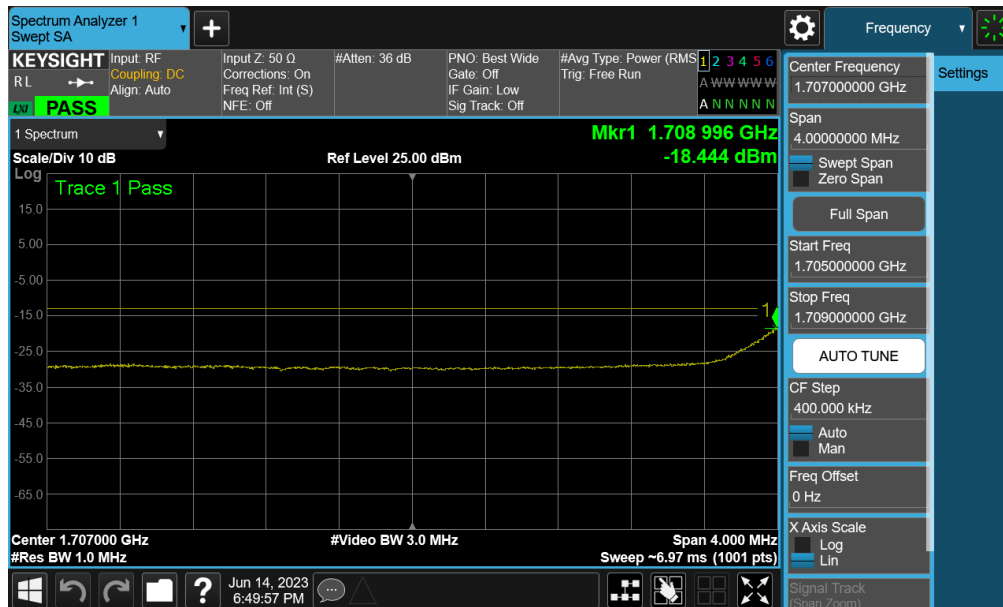
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
NR Band n66	40 MHz	Low	Band Edge	-27.78	-13	-14.78
		Low	Extended	-30.14	-13	-17.14
		High	Band Edge	-24.87	-13	-11.87
		High	Extended	-29.72	-13	-16.72
	30 MHz	Low	Band Edge	-28.03	-13	-15.03
		Low	Extended	-29.47	-13	-16.47
		High	Band Edge	-27.70	-13	-14.70
		High	Extended	-30.79	-13	-17.79
	20 MHz	Low	Band Edge	-29.98	-13	-16.98
		Low	Extended	-24.41	-13	-11.41
		High	Band Edge	-29.54	-13	-16.54
		High	Extended	-23.99	-13	-10.99
	15 MHz	Low	Band Edge	-29.40	-13	-16.40
		Low	Extended	-21.85	-13	-8.85
		High	Band Edge	-30.96	-13	-17.96
		High	Extended	-24.15	-13	-11.15
	10 MHz	Low	Band Edge	-26.65	-13	-13.65
		Low	Extended	-18.44	-13	-5.44
		High	Band Edge	-27.62	-13	-14.62
		High	Extended	-20.95	-13	-7.95
	5 MHz	Low	Band Edge	-26.29	-13	-13.29
		Low	Extended	-25.12	-13	-12.12
		High	Band Edge	-22.07	-13	-9.07
		High	Extended	-25.69	-13	-12.69

Table 7-22. Band Edge Emissions Test Results (ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 135 of 200



Plot 7-183. Lower Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT F)

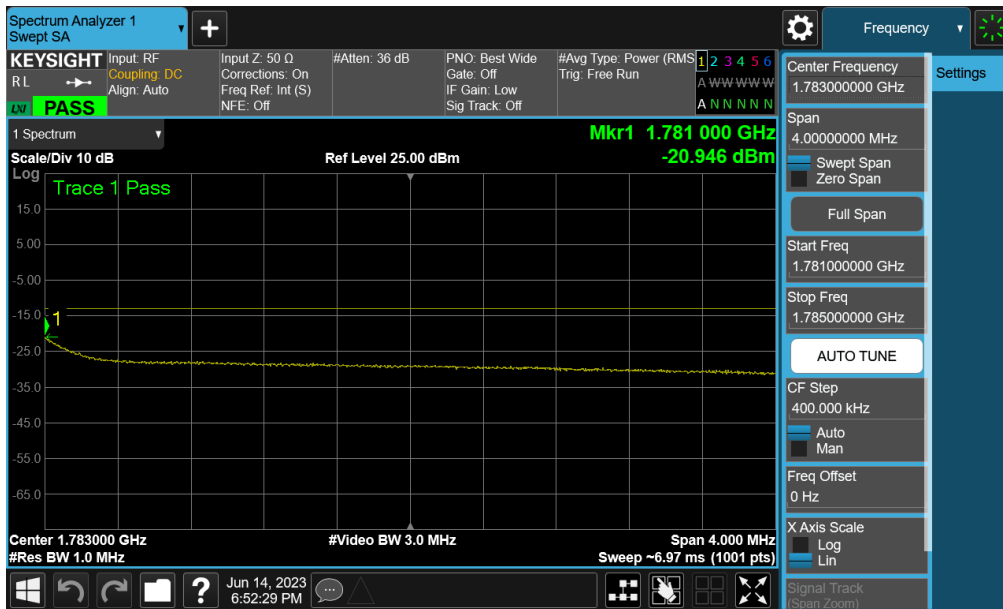


Plot 7-184. Lower Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 136 of 200



Plot 7-185. Upper Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT F)



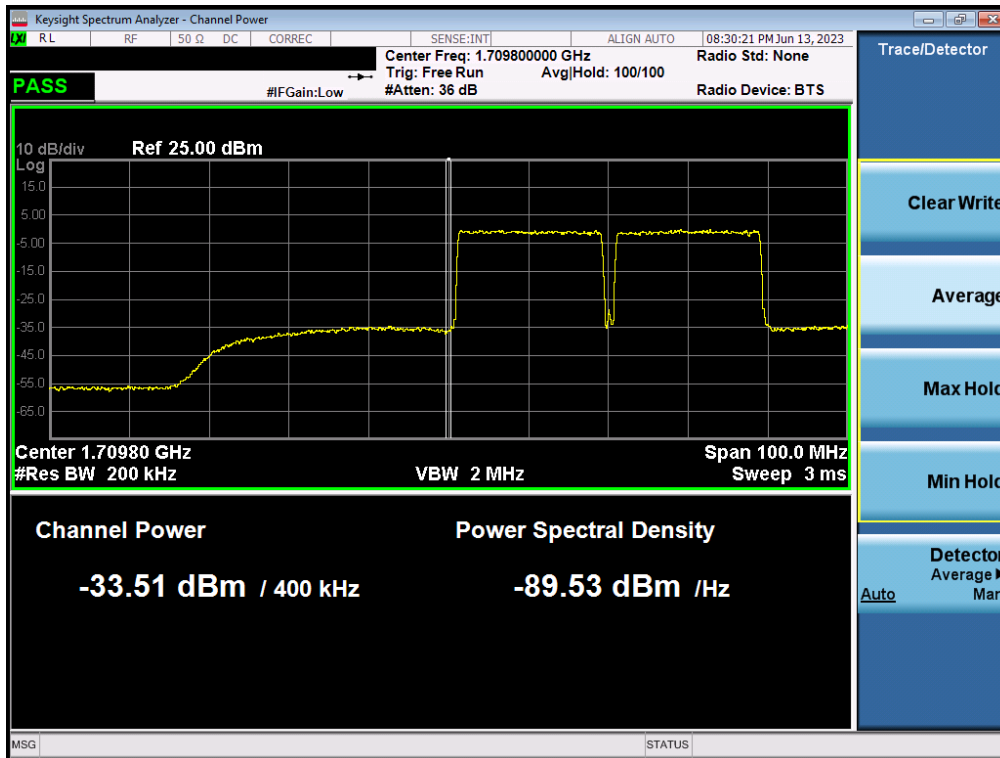
Plot 7-186. Upper Extended Band Edge Plot (NR Band n66 – 10.0MHz - Full RB - ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Uplink CA LTE Band 66B/C – ANT F

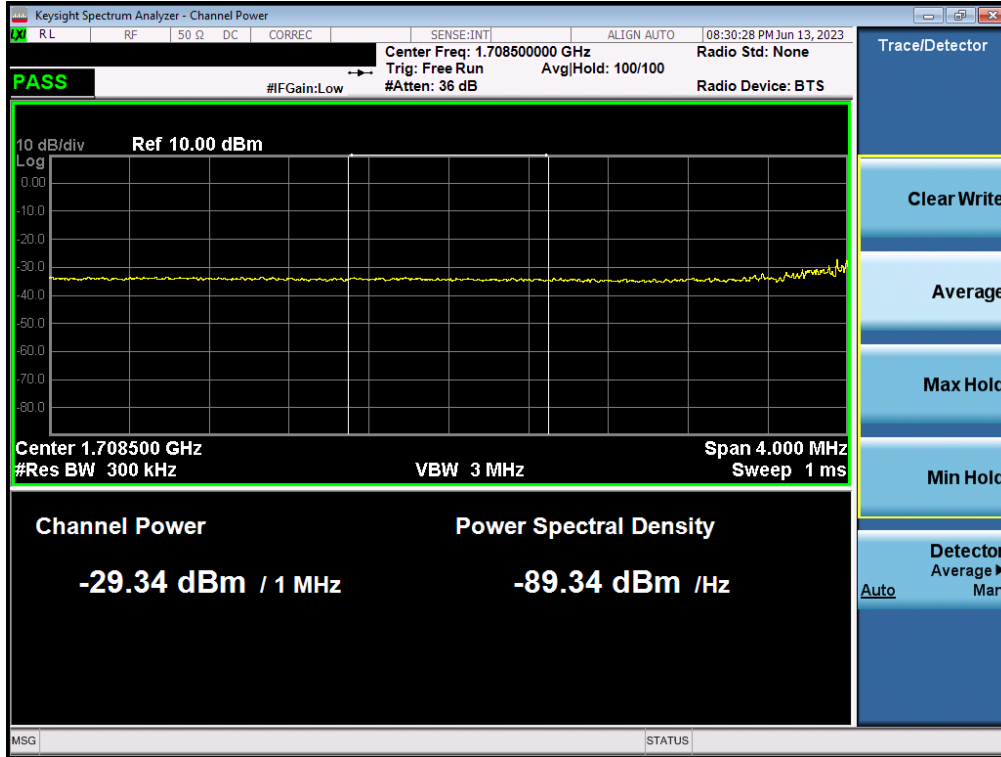
Mode	Bandwidth	Channel	Test Case	Level [dBm]	Limit [dBm]	Margin [dB]
LTE Band 66B/C ULCA	40 MHz	Low	Band Edge	-33.51	-13	-20.51
		Low	Extended	-29.34	-13	-16.34
		High	Band Edge	-33.53	-13	-20.53
		High	Extended	-29.30	-13	-16.30

Table 7-23. Band Edge Emissions Test Results (ANT F)

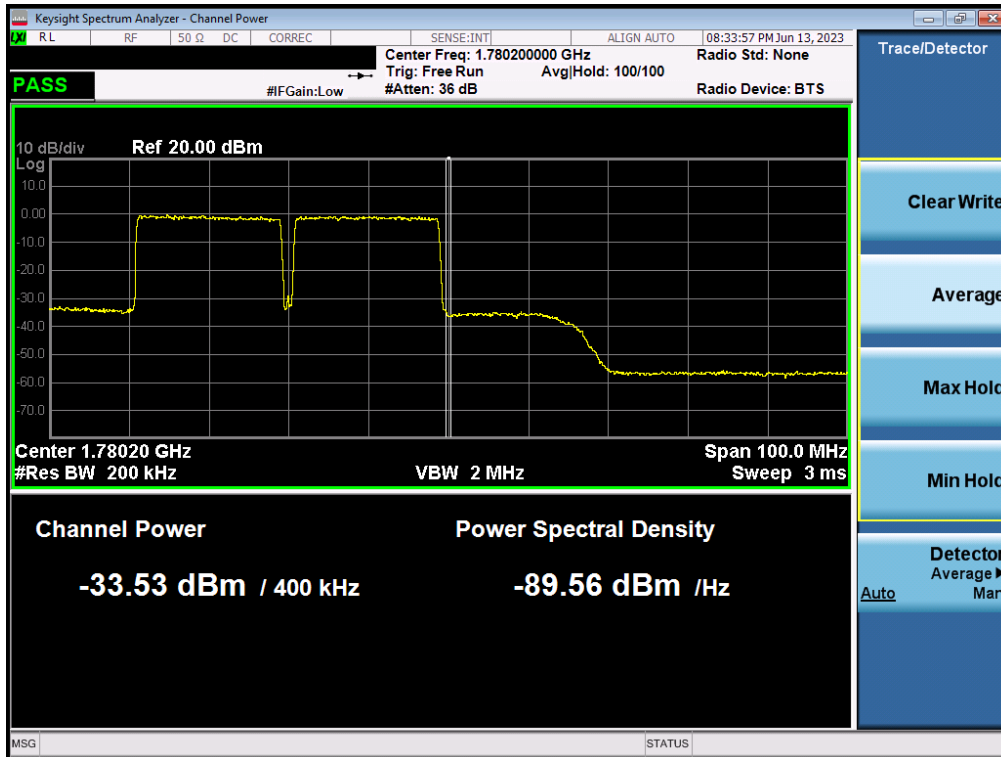


Plot 7-187. Lower Band Edge Plot (ULCA LTE Band 66 - ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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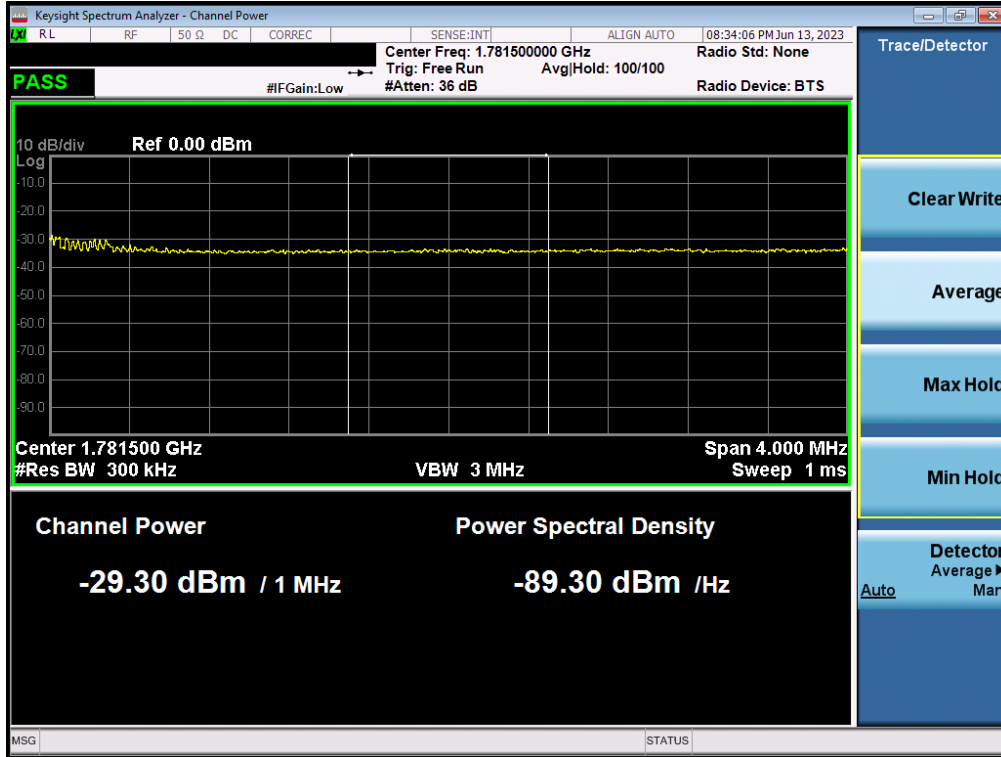


Plot 7-188. Lower Extended Band Edge Plot (ULCA LTE Band 66 - ANT F)



Plot 7-189. Upper Band Edge Plot (ULCA LTE Band 66 - ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-190. Upper Extended Band Edge Plot (ULCA LTE Band 66 - ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.6 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

ANSI C63.26-2015 – Section 5.2.3.4

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW \geq OBW or specified reference bandwidth
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

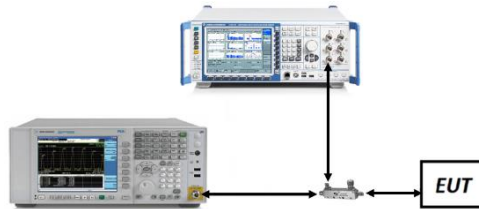


Figure 7-5. Test Instrument & Measurement Setup

Test Notes

For the QAM modulations, 256QAM was found to have the worst-case peak-to-average ratio so it is the only QAM measurement included in this section.

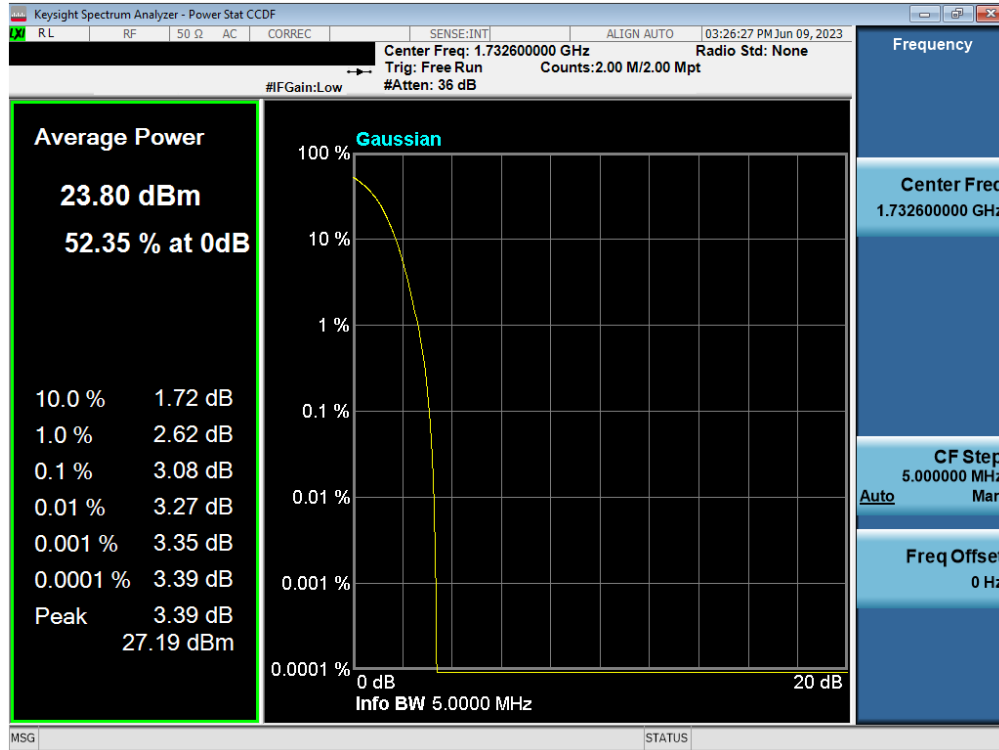
FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]	
WCDMA1700	N/A	Spread Spectrum	23.80	3.08	13	-9.92	
LTE Band 66/4	20 MHz	QPSK	22.86	4.94	13	-8.06	
		256QAM	18.84	6.76	13	-6.24	
	15 MHz	QPSK	22.84	5.16	13	-7.84	
		256QAM	18.85	6.78	13	-6.22	
	10 MHz	QPSK	22.99	5.03	13	-7.97	
		256QAM	19.03	6.75	13	-6.25	
	5 MHz	QPSK	23.00	4.97	13	-8.03	
		256QAM	19.02	6.76	13	-6.24	
	3 MHz	QPSK	22.99	4.89	13	-8.11	
		256QAM	19.02	6.77	13	-6.23	
	1.4 MHz	QPSK	22.99	4.86	13	-8.14	
		256QAM	18.98	6.79	13	-6.21	
	NR Band n66	40 MHz	$\pi/2$ BPSK	23.29	5.15	13	-7.85
			QPSK	20.76	7.89	13	-5.11
256QAM			17.25	8.37	13	-4.63	
30 MHz		$\pi/2$ BPSK	23.15	4.52	13	-8.48	
		QPSK	20.62	8.10	13	-4.90	
		256QAM	17.11	8.34	13	-4.66	
20 MHz		$\pi/2$ BPSK	23.22	4.54	13	-8.46	
		QPSK	20.70	8.24	13	-4.76	
		256QAM	17.20	8.35	13	-4.65	
15 MHz		$\pi/2$ BPSK	23.20	4.48	13	-8.52	
		QPSK	20.70	8.06	13	-4.95	
		256QAM	17.17	8.45	13	-4.55	
10 MHz		$\pi/2$ BPSK	23.08	4.67	13	-8.33	
		QPSK	20.51	8.11	13	-4.89	
		256QAM	16.99	8.63	13	-4.37	
5 MHz		$\pi/2$ BPSK	23.06	4.49	13	-8.51	
		QPSK	20.52	8.48	13	-4.52	
		256QAM	17.02	8.34	13	-4.66	

Table 7-24. 7.6 Peak-Average Ratio (ANT A)

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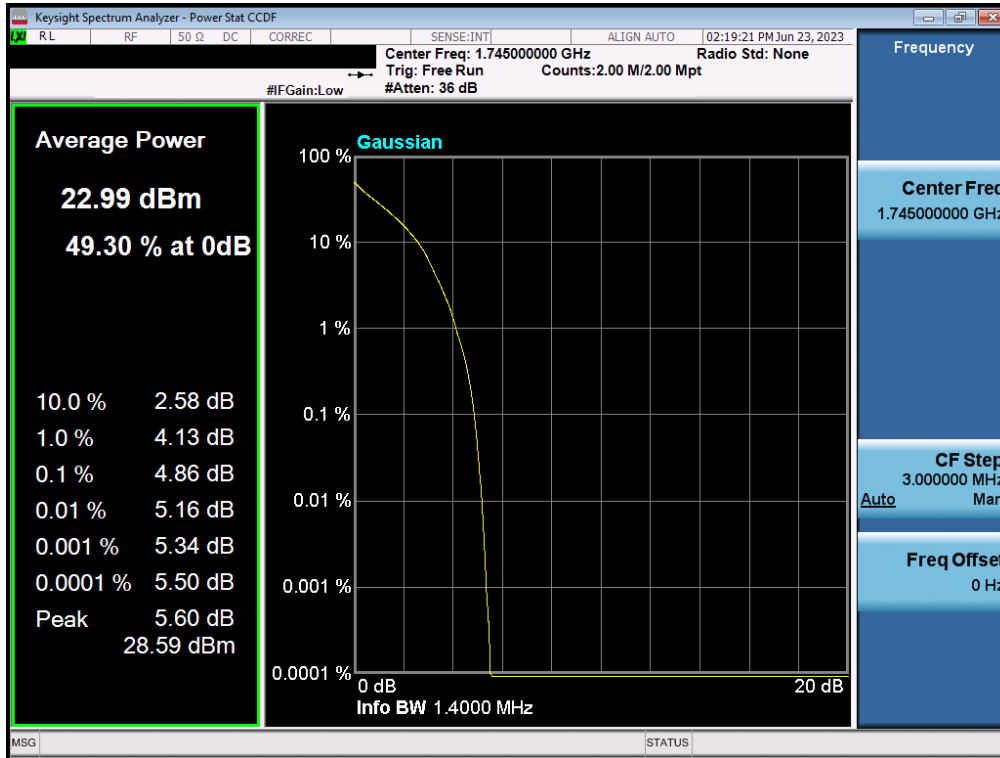
WCDMA AWS – ANT A



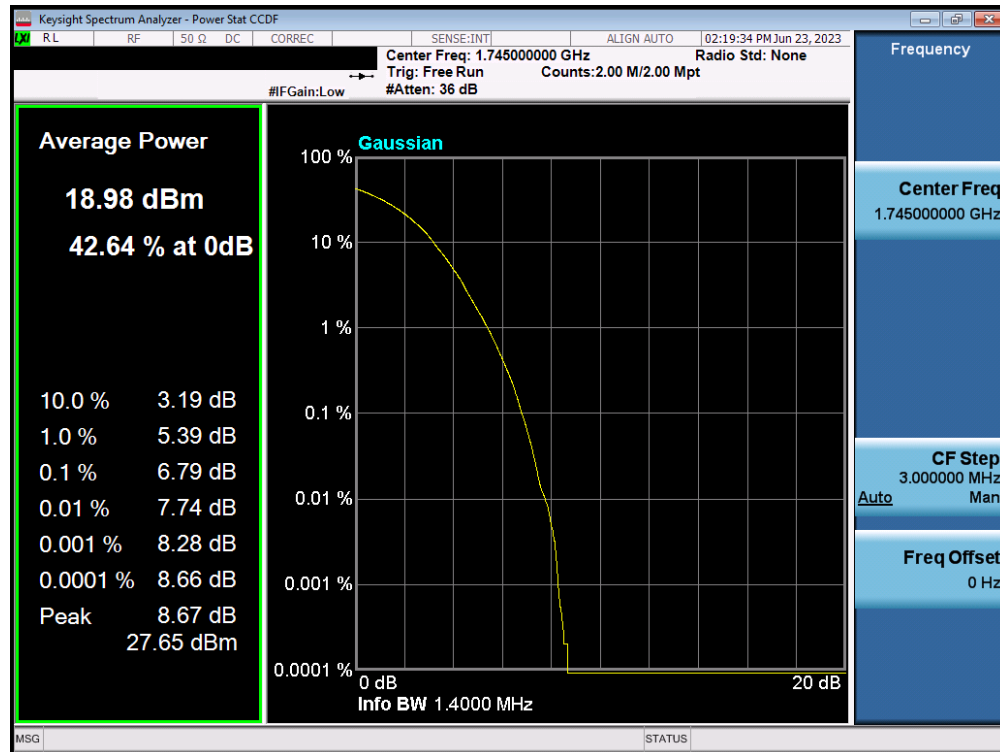
Plot 7-191. PAR Plot (WCDMA, Ch. 1413 – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – ANT A



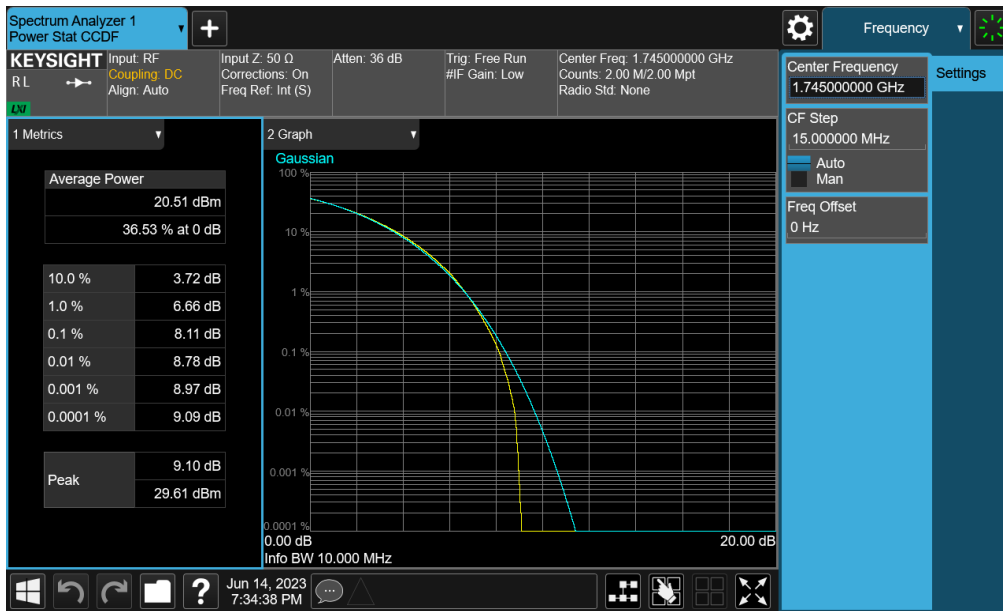
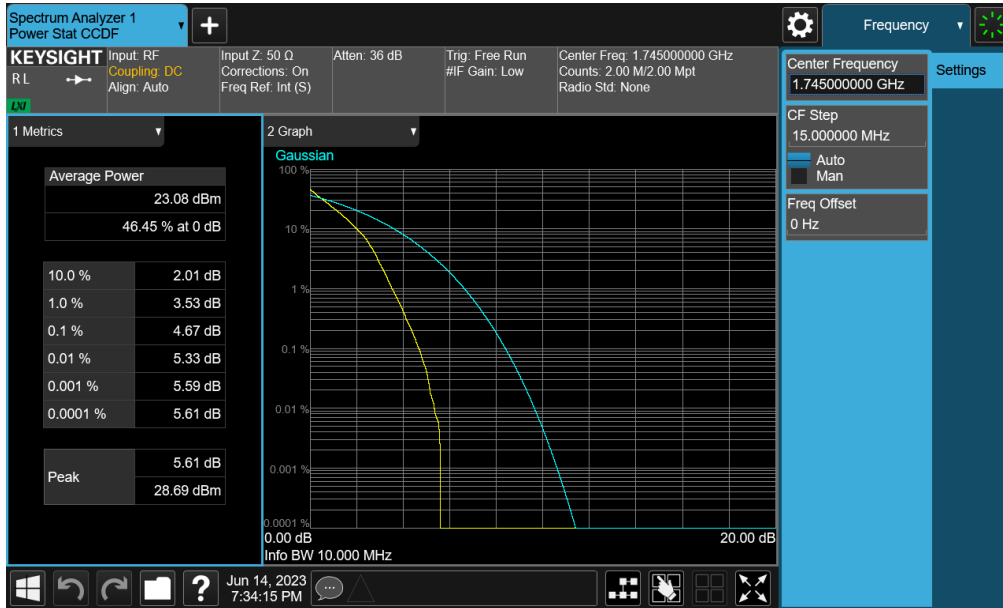
Plot 7-192. PAR Plot (LTE Band 66/4 - 1.4MHz QPSK - Full RB - ANT A)



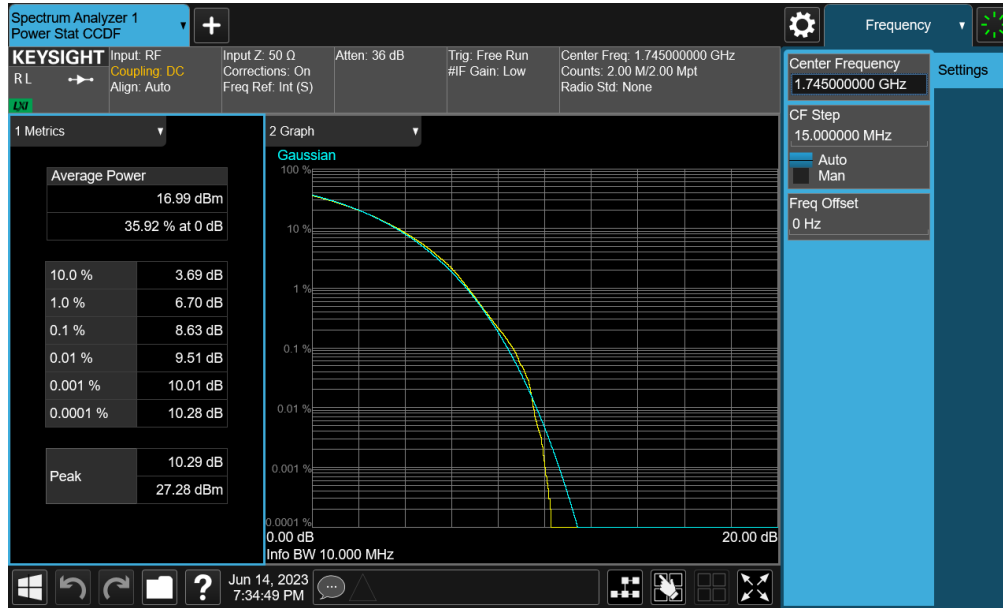
Plot 7-193. PAR Plot (LTE Band 66/4 - 1.4MHz 256-QAM - Full RB - ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 – ANT A



FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-196. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM 256-QAM - Full RB - ANT A)

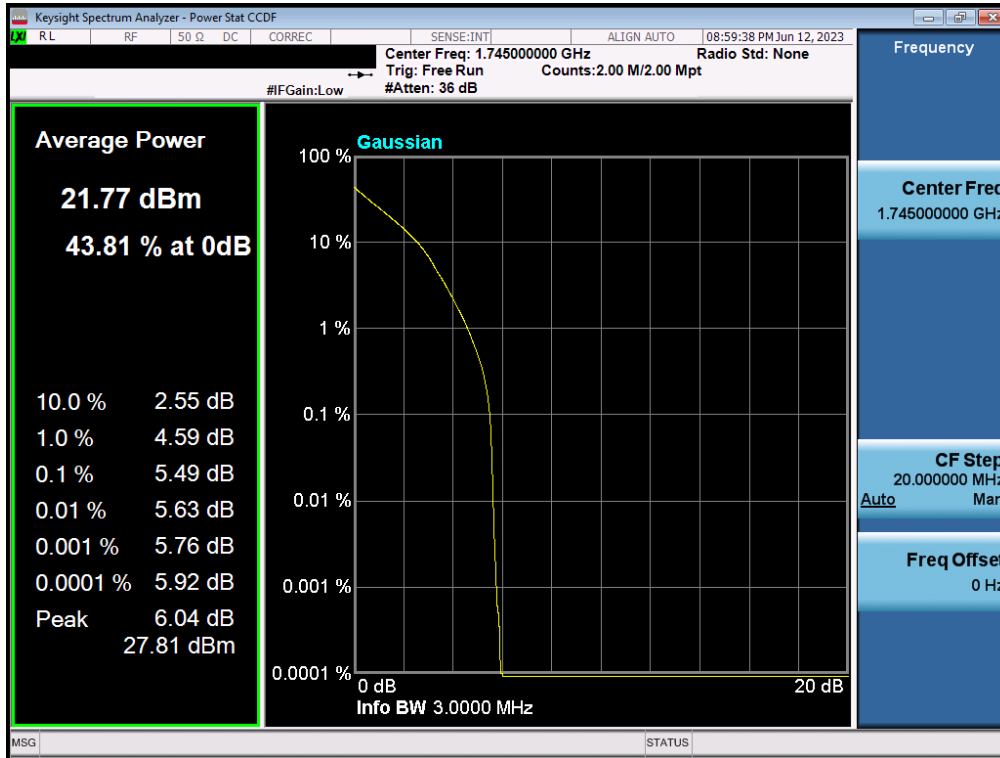
FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]	
LTE Band 66/4	20 MHz	QPSK	21.64	5.54	13.00	-7.46	
		256QAM	17.59	6.90	13.00	-6.10	
	15 MHz	QPSK	21.66	5.73	13.00	-7.27	
		256QAM	17.64	6.90	13.00	-6.10	
	10 MHz	QPSK	21.81	5.58	13.00	-7.42	
		256QAM	17.79	6.89	13.00	-6.11	
	5 MHz	QPSK	21.79	5.57	13.00	-7.43	
		256QAM	17.79	6.92	13.00	-6.08	
	3 MHz	QPSK	21.77	5.49	13.00	-7.51	
		256QAM	18.02	7.65	13.00	-5.35	
	1.4 MHz	QPSK	21.70	5.57	13.00	-7.43	
		256QAM	17.92	7.56	13.00	-5.44	
	NR Band n66	40 MHz	$\pi/2$ BPSK	22.97	4.41	13.00	-8.59
			QPSK	20.42	7.21	13.00	-5.79
256QAM			16.93	8.51	13.00	-4.49	
30 MHz		$\pi/2$ BPSK	23.01	4.09	13.00	-8.91	
		QPSK	20.43	7.08	13.00	-5.92	
		256QAM	16.94	8.43	13.00	-4.57	
20 MHz		$\pi/2$ BPSK	22.85	4.21	13.00	-8.79	
		QPSK	20.33	7.32	13.00	-5.68	
		256QAM	16.81	8.58	13.00	-4.42	
15 MHz		$\pi/2$ BPSK	22.85	4.25	13.00	-8.75	
		QPSK	20.28	7.43	13.00	-5.57	
		256QAM	16.78	8.49	13.00	-4.51	
10 MHz		$\pi/2$ BPSK	22.73	3.93	13.00	-9.07	
		QPSK	20.18	7.46	13.00	-5.54	
		256QAM	16.65	8.43	13.00	-4.57	
5 MHz		$\pi/2$ BPSK	22.74	4.21	13.00	-8.79	
		QPSK	20.18	7.48	13.00	-5.52	
		256QAM	16.69	8.31	13.00	-4.69	

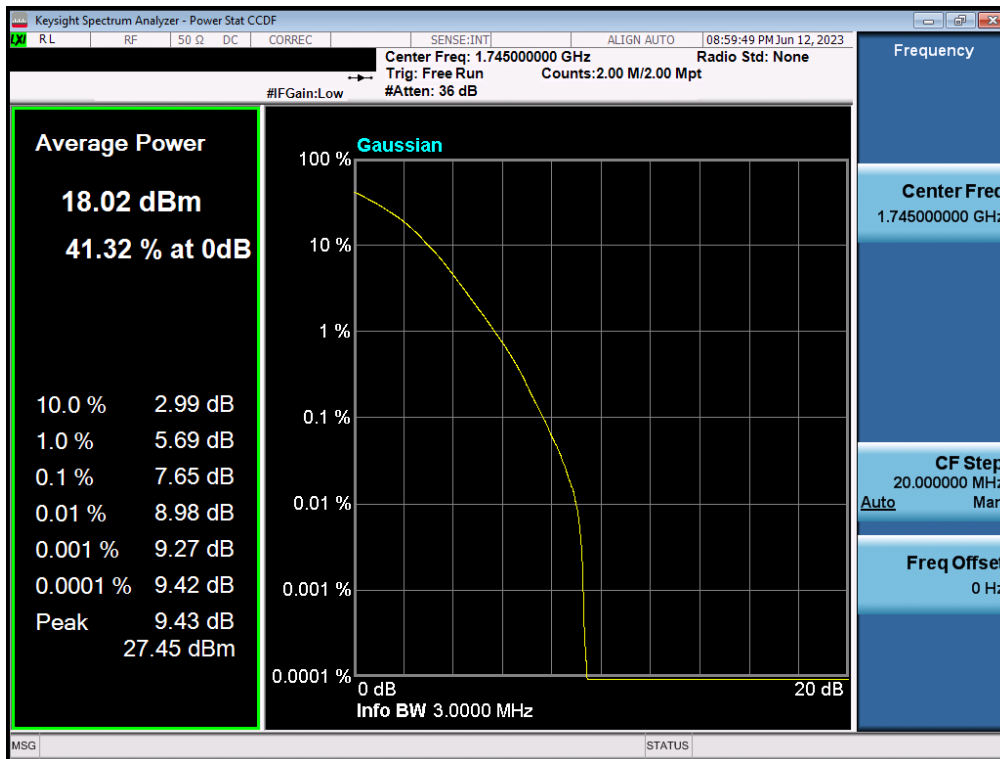
Table 7-25. 7.6 Peak-Average Ratio (ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4 – ANT F



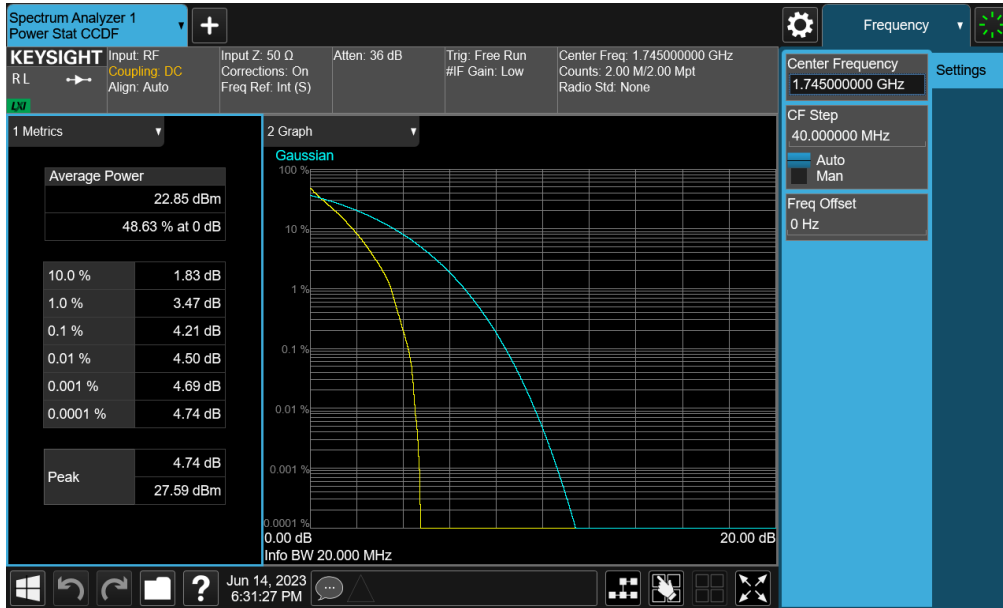
Plot 7-197. PAR Plot (LTE Band 66/4 - 3MHz QPSK - Full RB - ANT F)



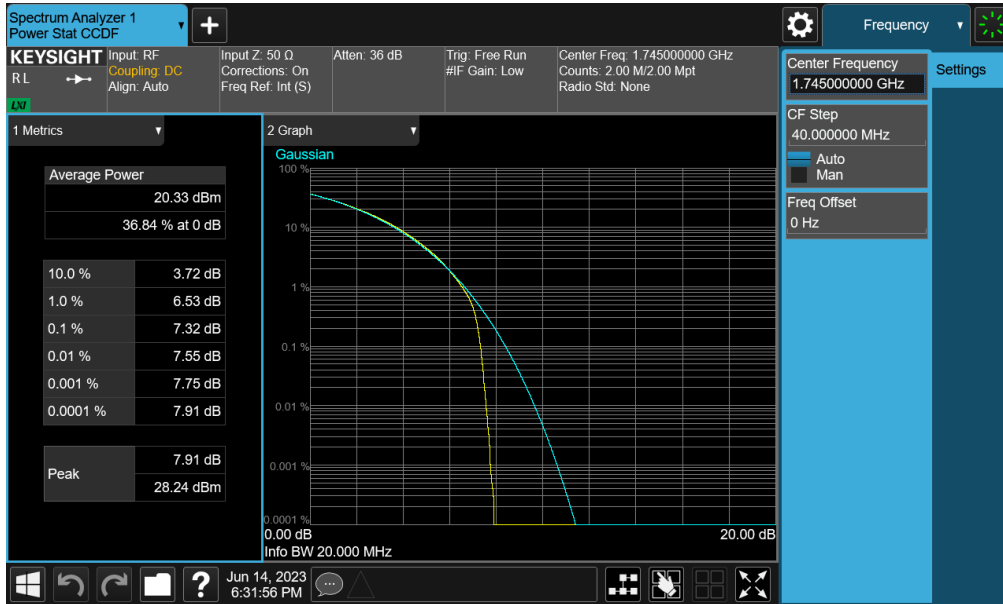
Plot 7-198. PAR Plot (LTE Band 66/4 - 3MHz 256-QAM - Full RB - ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66 – ANT F

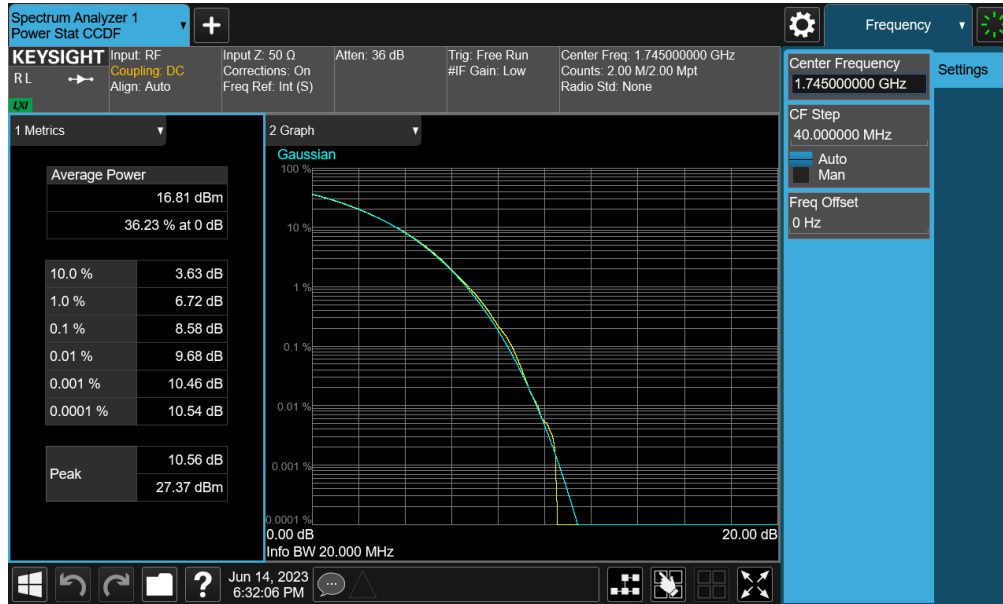


lot 7-199. PAR Plot (NR Band n66 - 20.0MHz DFT-s-OFDM $\pi/2$ BPSK- Full RB - ANT F)



Plot 7-200. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM QPSK - Full RB - ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-201. PAR Plot (NR Band n66 - 20.0MHz CP-OFDM 256-QAM - Full RB - ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.7 Radiated Power (ERP/EIRP)

Test Overview

Effective Radiated Power (ERP) and 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, not to exceed 1MHz
3. VBW \geq 3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points \geq 2 x span / RBW
6. Detector = RMS
7. Trigger is set to “free run” for signals with continuous operation with the sweep times set to “auto”.
8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation.
9. Trace mode = trace averaging (RMS) over 100 sweeps
10. The trace was allowed to stabilize

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Test Setup

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

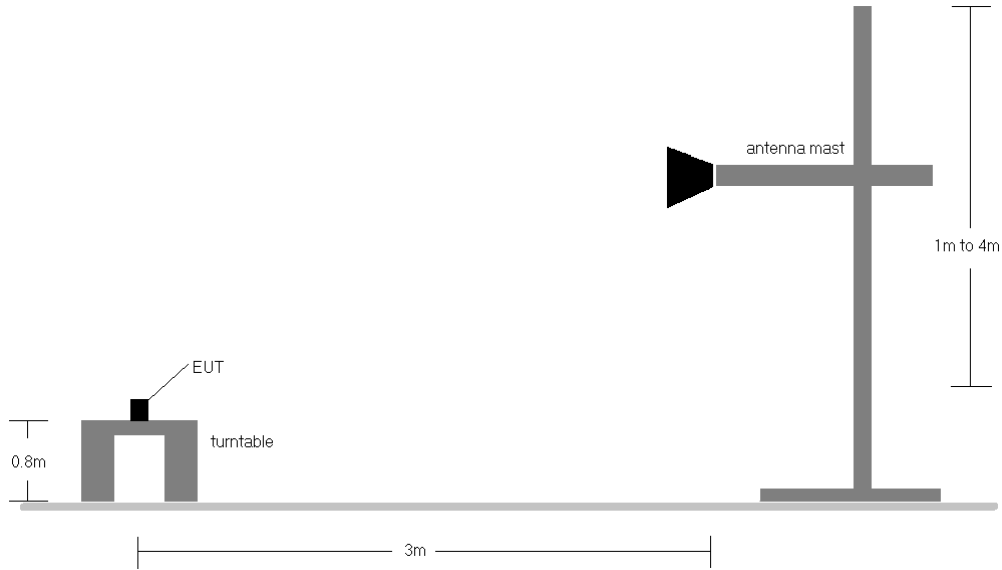


Figure 7-6. Radiated Test Setup <1GHz

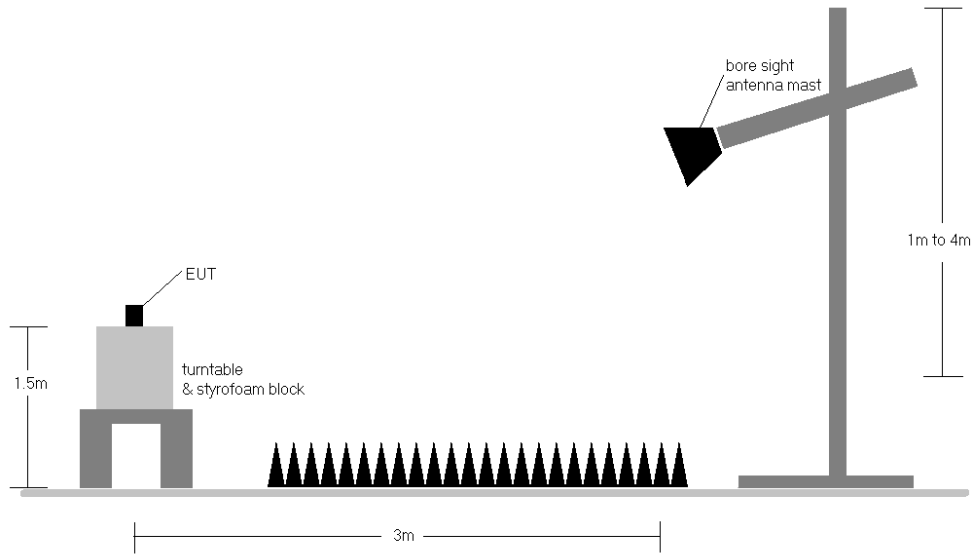


Figure 7-7. Radiated Test Setup >1GHz

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) 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.

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- 3) This unit was tested with its standard battery.
- 4) 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.

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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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	QPSK	673.0	V	179	309	0.56	1 / 99	19.18	19.74	0.094	36.99	-17.25	17.59	0.057	34.77	-17.18
	QPSK	680.5	V	183	323	0.71	1 / 50	19.24	19.95	0.099	36.99	-17.04	17.80	0.060	34.77	-16.97
	QPSK	688.0	V	172	331	0.86	1 / 50	18.36	19.22	0.083	36.99	-17.77	17.07	0.051	34.77	-17.71
	16-QAM	688.0	V	172	331	0.86	1 / 99	16.68	17.54	0.057	36.99	-19.45	15.39	0.035	34.77	-19.39
15 MHz	QPSK	670.5	V	179	309	0.51	1 / 37	19.16	19.67	0.093	36.99	-17.32	17.52	0.057	34.77	-17.25
	QPSK	680.5	V	183	323	0.71	1 / 37	19.23	19.94	0.099	36.99	-17.05	17.79	0.060	34.77	-16.98
	QPSK	690.5	V	172	331	0.90	1 / 37	18.38	19.29	0.085	36.99	-17.70	17.14	0.052	34.77	-17.64
	16-QAM	690.5	V	172	331	0.90	1 / 0	16.44	17.35	0.054	36.99	-19.64	15.20	0.033	34.77	-19.58
10 MHz	QPSK	668.0	V	179	309	0.46	1 / 25	19.34	19.80	0.096	36.99	-17.19	17.65	0.058	34.77	-17.12
	QPSK	680.5	V	183	323	0.71	1 / 25	19.36	20.07	0.102	36.99	-16.92	17.92	0.062	34.77	-16.85
	QPSK	693.0	V	172	331	0.95	1 / 25	18.39	19.35	0.086	36.99	-17.64	17.20	0.052	34.77	-17.58
	16-QAM	680.5	V	183	323	0.71	1 / 25	18.64	19.35	0.086	36.99	-17.64	17.20	0.052	34.77	-17.57
5 MHz	16-QAM	693.0	V	172	331	0.95	1 / 0	16.50	17.46	0.056	36.99	-19.53	15.31	0.034	34.77	-19.47
	QPSK	665.5	V	179	309	0.41	1 / 12	19.36	19.77	0.095	36.99	-17.22	17.62	0.058	34.77	-17.15
	QPSK	680.5	V	183	323	0.71	1 / 12	19.41	20.12	0.103	36.99	-16.87	17.97	0.063	34.77	-16.80
	QPSK	695.5	V	172	331	1.00	1 / 12	18.39	19.39	0.087	36.99	-17.60	17.24	0.053	34.77	-17.54
20 MHz	16-QAM	680.5	V	183	323	0.71	1 / 12	18.78	19.49	0.089	36.99	-17.50	17.34	0.054	34.77	-17.43
	WCP	680.5	V	172	177	0.71	1 / 0	12.64	13.35	0.022	36.99	-23.64	11.20	0.013	34.77	-23.57

Table 7-26. ERP Data (LTE Band 71 – ANT A)

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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.0	V	169	220	1.12	1 / 49	20.44	21.56	0.143	36.99	-15.43	19.41	0.087	34.77	-15.36
	QPSK	707.5	V	165	231	1.14	1 / 25	20.27	21.41	0.138	36.99	-15.58	19.26	0.084	34.77	-15.51
	QPSK	711.0	V	153	225	1.17	1 / 25	20.39	21.56	0.143	36.99	-15.43	19.41	0.087	34.77	-15.36
	16-QAM	707.5	V	165	231	1.14	1 / 25	19.80	20.94	0.124	36.99	-16.05	18.79	0.076	34.77	-15.98
5 MHz	QPSK	701.5	V	169	220	0.00	1 / 12	21.44	21.44	0.139	36.99	-15.55	19.29	0.085	34.77	-15.48
	QPSK	707.5	V	165	231	0.00	1 / 12	21.38	21.38	0.137	36.99	-15.61	19.23	0.084	34.77	-15.54
	QPSK	713.5	V	153	225	0.00	1 / 24	21.47	21.47	0.140	36.99	-15.52	19.32	0.086	34.77	-15.45
	16-QAM	701.5	V	169	220	0.00	1 / 12	20.95	20.95	0.124	36.99	-16.04	18.80	0.076	34.77	-15.97
3 MHz	QPSK	700.5	V	169	220	0.00	1 / 7	21.50	21.50	0.141	36.99	-15.49	19.35	0.086	34.77	-15.42
	QPSK	707.5	V	165	231	0.00	1 / 7	21.40	21.40	0.138	36.99	-15.59	19.25	0.084	34.77	-15.52
	QPSK	714.5	V	153	225	0.00	1 / 14	21.47	21.47	0.140	36.99	-15.52	19.32	0.086	34.77	-15.45
	16-QAM	707.5	V	165	231	0.00	1 / 7	20.95	20.95	0.124	36.99	-16.04	18.80	0.076	34.77	-15.97
1.4 MHz	QPSK	699.7	V	169	220	0.00	1 / 3	21.35	21.35	0.136	36.99	-15.64	19.20	0.083	34.77	-15.57
	QPSK	707.5	V	165	231	0.00	1 / 3	21.36	21.36	0.137	36.99	-15.63	19.21	0.083	34.77	-15.56
	QPSK	715.3	V	153	225	0.00	1 / 3	21.50	21.50	0.141	36.99	-15.49	19.35	0.086	34.77	-15.42
	16-QAM	715.3	V	153	225	0.00	1 / 5	20.21	20.21	0.105	36.99	-16.78	18.06	0.064	34.77	-16.71
10 MHz	WCP	704.0	V	170	283	1.12	1/25	12.14	13.26	0.021	36.99	-23.73	11.11	0.013	34.77	-23.66

Table 7-27. ERP Data (LTE Band 12 – ANT A)

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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.0	V	158	238	0.89	1 / 25	21.17	22.06	0.161	36.99	-14.93	19.91	0.098	34.77	-14.86
	16-QAM	782.0	V	158	238	0.89	1 / 25	20.39	21.28	0.134	36.99	-15.71	19.13	0.082	34.77	-15.64
5 MHz	QPSK	779.5	V	158	238	0.94	1 / 12	21.14	22.07	0.161	36.99	-14.92	19.92	0.098	34.77	-14.85
	QPSK	782.0	V	158	238	0.89	1 / 12	21.13	22.02	0.159	36.99	-14.97	19.87	0.097	34.77	-14.90
	QPSK	784.5	V	158	238	0.85	1 / 0	21.14	21.99	0.158	36.99	-15.00	19.84	0.096	34.77	-14.93
	16-QAM	782.0	V	158	238	0.89	1 / 12	20.60	21.49	0.141	36.99	-15.50	19.34	0.086	34.77	-15.43
10 MHz	WCP	782.0	V	164	293	0.89	1 / 0	15.29	16.18	0.042	36.99	-20.81	14.03	0.025	34.77	-20.74

Table 7-28. ERP Data (LTE Band 13 – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 154 of 200



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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	π/2 BPSK	673.0	V	180	275	0.56	1 / 79	19.17	19.73	0.094	36.99	-17.26	17.58	0.057	34.77	-17.19
	π/2 BPSK	680.5	V	184	268	0.71	1 / 53	19.36	20.07	0.102	36.99	-16.92	17.92	0.062	34.77	-16.85
	π/2 BPSK	688.0	V	181	276	0.86	1 / 53	18.16	19.02	0.080	36.99	-17.97	16.87	0.049	34.77	-17.91
	QPSK	673.0	V	180	275	0.56	1 / 79	19.36	19.92	0.098	36.99	-17.07	17.77	0.060	34.77	-17.00
	QPSK	680.5	V	184	268	0.71	1 / 53	19.33	20.04	0.101	36.99	-16.95	17.89	0.062	34.77	-16.88
	QPSK	688.0	V	181	276	0.86	1 / 53	18.14	19.00	0.079	36.99	-17.99	16.85	0.048	34.77	-17.93
15 MHz	16-QAM	673.0	V	180	275	0.56	1 / 79	18.31	18.87	0.077	36.99	-18.12	16.72	0.047	34.77	-18.05
	π/2 BPSK	670.5	V	180	275	0.51	1 / 20	19.44	19.96	0.099	36.99	-17.03	17.81	0.060	34.77	-16.97
	π/2 BPSK	680.5	V	184	268	0.71	1 / 20	19.54	20.25	0.106	36.99	-16.74	18.10	0.065	34.77	-16.87
	π/2 BPSK	690.5	V	181	276	0.90	1 / 39	18.08	18.99	0.079	36.99	-18.00	16.84	0.048	34.77	-17.93
	QPSK	670.5	V	180	275	0.51	1 / 20	19.26	19.77	0.095	36.99	-17.22	17.62	0.058	34.77	-17.15
	QPSK	680.5	V	184	268	0.71	1 / 20	19.36	20.07	0.102	36.99	-16.92	17.92	0.062	34.77	-16.85
10 MHz	QPSK	690.5	V	181	276	0.90	1 / 20	18.22	19.12	0.082	36.99	-17.87	16.97	0.050	34.77	-17.80
	16-QAM	670.5	V	180	275	0.51	1 / 20	18.35	18.86	0.077	36.99	-18.13	16.71	0.047	34.77	-18.06
	π/2 BPSK	668.0	V	180	275	0.46	1 / 38	19.18	19.64	0.092	36.99	-17.35	17.49	0.056	34.77	-17.28
	π/2 BPSK	680.5	V	184	268	0.71	1 / 38	19.51	20.22	0.105	36.99	-16.77	18.07	0.064	34.77	-16.71
	π/2 BPSK	693.0	V	181	276	0.95	1 / 13	17.97	18.93	0.078	36.99	-18.06	16.78	0.048	34.77	-17.99
	QPSK	668.0	V	180	275	0.46	1 / 38	19.20	19.66	0.093	36.99	-17.33	17.51	0.056	34.77	-17.26
5 MHz	QPSK	680.5	V	184	268	0.71	1 / 13	19.26	19.97	0.099	36.99	-17.02	17.82	0.061	34.77	-16.95
	QPSK	693.0	V	181	276	0.95	1 / 13	17.92	18.87	0.077	36.99	-18.12	16.72	0.047	34.77	-18.05
	16-QAM	693.0	V	181	276	0.95	1 / 38	17.11	18.06	0.064	36.99	-18.93	15.91	0.039	34.77	-18.86
	π/2 BPSK	665.5	V	180	275	0.41	1 / 6	19.21	19.62	0.092	36.99	-17.37	17.47	0.056	34.77	-17.30
	π/2 BPSK	680.5	V	184	268	0.71	1 / 6	19.49	20.20	0.105	36.99	-16.79	18.05	0.064	34.77	-16.72
	π/2 BPSK	695.5	V	181	276	1.00	1 / 18	18.15	19.15	0.082	36.99	-17.84	17.00	0.050	34.77	-17.77
20 MHz	QPSK	665.5	V	180	275	0.41	1 / 6	19.26	19.67	0.093	36.99	-17.32	17.52	0.057	34.77	-17.25
	QPSK	680.5	V	184	268	0.71	1 / 6	19.12	19.83	0.096	36.99	-17.16	17.68	0.059	34.77	-17.09
	QPSK	695.5	V	181	276	1.00	1 / 12	17.82	18.82	0.076	36.99	-18.17	16.67	0.046	34.77	-18.10
	16-QAM	695.5	V	181	276	1.00	1 / 12	17.23	18.23	0.067	36.99	-18.76	16.08	0.041	34.77	-18.69
	QPSK (CP-OFDM)	680.5	V	182	280	0.71	1 / 53	17.76	18.47	0.070	36.99	-18.52	16.32	0.043	34.77	-18.45
	QPSK (WCP)	680.5	V	220	189	0.71	1 / 53	11.89	12.60	0.018	36.99	-24.39	10.45	0.011	34.77	-24.32

Table 7-29. EIRP Data (NR Band n71 – ANT A)

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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
15 MHz	π/2 BPSK	706.5	V	165	216	1.14	1 / 39	19.11	20.25	0.106	36.99	-16.74	18.10	0.065	34.77	-16.67
	π/2 BPSK	707.5	V	154	218	1.14	1 / 58	19.70	20.84	0.121	36.99	-16.14	18.69	0.074	34.77	-16.08
	π/2 BPSK	708.5	V	151	216	1.15	1 / 58	19.08	20.23	0.106	36.99	-16.76	18.08	0.064	34.77	-16.69
	QPSK	706.5	V	165	216	1.14	1 / 39	19.10	20.24	0.106	36.99	-16.75	18.09	0.064	34.77	-16.68
	QPSK	707.5	V	154	218	1.14	1 / 58	19.77	20.91	0.123	36.99	-16.07	18.76	0.075	34.77	-16.01
	QPSK	708.5	V	151	216	1.15	1 / 58	19.09	20.24	0.106	36.99	-16.75	18.09	0.064	34.77	-16.68
10 MHz	16-QAM	708.5	V	151	216	1.15	1 / 58	18.06	19.21	0.083	36.99	-17.78	17.06	0.051	34.77	-17.71
	π/2 BPSK	704.0	V	165	216	1.12	1 / 38	18.98	20.10	0.102	36.99	-16.89	17.95	0.062	34.77	-16.82
	π/2 BPSK	707.5	V	154	218	1.14	1 / 26	19.61	20.76	0.119	36.99	-16.23	18.61	0.073	34.77	-16.17
	π/2 BPSK	711.0	V	151	216	1.17	1 / 13	19.03	20.20	0.105	36.99	-16.79	18.05	0.064	34.77	-16.72
	QPSK	704.0	V	165	216	1.12	1 / 38	18.91	20.03	0.101	36.99	-16.96	17.88	0.061	34.77	-16.89
	QPSK	707.5	V	154	218	1.14	1 / 26	19.58	20.72	0.118	36.99	-16.27	18.57	0.072	34.77	-16.20
5 MHz	QPSK	711.0	V	151	216	1.17	1 / 13	19.00	20.18	0.104	36.99	-16.81	18.03	0.063	34.77	-16.75
	16-QAM	711.0	V	151	216	1.17	1 / 13	17.94	19.11	0.081	36.99	-17.88	16.96	0.050	34.77	-17.81
	π/2 BPSK	701.5	V	165	216	1.10	1 / 12	18.96	20.06	0.101	36.99	-16.93	17.91	0.062	34.77	-16.87
	π/2 BPSK	707.5	V	154	218	1.14	1 / 12	19.60	20.74	0.119	36.99	-16.25	18.59	0.072	34.77	-16.18
	π/2 BPSK	713.5	V	151	216	1.19	1 / 12	18.94	20.13	0.103	36.99	-16.86	17.98	0.063	34.77	-16.79
	QPSK	701.5	V	165	216	1.10	1 / 12	18.99	20.08	0.102	36.99	-16.91	17.93	0.062	34.77	-16.84
15 MHz	QPSK	707.5	V	154	218	1.14	1 / 12	19.38	20.53	0.113	36.99	-16.46	18.38	0.069	34.77	-16.39
	QPSK	713.5	V	151	216	1.19	1 / 12	19.01	20.20	0.105	36.99	-16.79	18.05	0.064	34.77	-16.72
	16-QAM	707.5	V	154	218	1.14	1 / 12	18.51	19.66	0.092	36.99	-17.33	17.51	0.056	34.77	-17.27
15 MHz	QPSK (CP-OFDM)	707.5	V	157	220	1.14	1 / 77	17.64	18.78	0.076	36.99	-18.20	16.63	0.046	34.77	-18.14
	QPSK (WCP)	707.5	V	174	284	1.14	1 / 39	12.68	13.82	0.024	36.99	-23.16	11.67	0.015	34.77	-23.10

Table 7-30. EIRP Data (NR Band n12 – ANT A)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	V	140.00	318.00	20.29	2.88	23.17	0.208	30.00	-6.83
1732.60	WCDMA1700	V	208.00	330.00	20.23	2.92	23.15	0.207	30.00	-6.85
1752.60	WCDMA1700	V	158.00	223.00	20.02	2.96	22.98	0.199	30.00	-7.02
1712.40	WCDMA1700 (WCP)	V	121.00	35.00	16.19	2.88	19.07	0.081	30.00	-10.93

Table 7-31. EIRP Data (WCDMA AWS – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT				Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 155 of 200		



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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	V	135	206	2.90	1 / 0	20.41	23.31	0.214	30.00	-6.69
	QPSK	1745.0	V	156	207	2.94	1 / 50	19.36	22.30	0.170	30.00	-7.70
	QPSK	1770.0	V	144	205	3.02	1 / 0	20.09	23.11	0.205	30.00	-6.89
	16-QAM	1745.0	V	156	207	2.94	1 / 50	18.71	21.65	0.146	30.00	-8.35
15 MHz	QPSK	1717.5	V	135	206	2.89	1 / 74	20.22	23.12	0.205	30.00	-6.88
	QPSK	1745.0	V	156	207	2.94	1 / 74	19.33	22.27	0.169	30.00	-7.73
	QPSK	1772.5	V	144	205	3.03	1 / 0	20.04	23.07	0.203	30.00	-6.93
	16-QAM	1745.0	V	156	207	2.94	1 / 74	18.77	21.71	0.148	30.00	-8.29
10 MHz	QPSK	1715.0	V	135	206	2.89	1 / 25	20.15	23.04	0.201	30.00	-6.96
	QPSK	1745.0	V	156	207	2.94	1 / 25	19.24	22.18	0.165	30.00	-7.82
	QPSK	1775.0	V	144	205	3.04	1 / 25	20.10	23.14	0.206	30.00	-6.86
	16-QAM	1745.0	V	156	207	2.94	1 / 25	19.22	22.16	0.165	30.00	-7.84
5 MHz	QPSK	1712.5	V	135	206	2.88	1 / 12	20.08	22.97	0.198	30.00	-7.03
	QPSK	1745.0	V	156	207	2.94	1 / 12	19.26	22.20	0.166	30.00	-7.80
	QPSK	1777.5	V	144	205	3.05	1 / 12	20.12	23.17	0.208	30.00	-6.83
	16-QAM	1745.0	V	156	207	2.94	1 / 12	19.02	21.96	0.157	30.00	-8.04
3 MHz	QPSK	1711.5	V	135	206	2.88	1 / 7	20.09	22.97	0.198	30.00	-7.03
	QPSK	1745.0	V	156	207	2.94	1 / 7	19.29	22.23	0.167	30.00	-7.77
	QPSK	1778.5	V	144	205	3.05	1 / 7	20.03	23.08	0.203	30.00	-6.92
	16-QAM	1745.0	V	156	207	2.94	1 / 7	18.94	21.88	0.154	30.00	-8.12
1.4 MHz	QPSK	1710.7	V	135	206	2.88	1 / 0	20.08	22.96	0.198	30.00	-7.04
	QPSK	1745.0	V	156	207	2.94	1 / 3	19.32	22.26	0.168	30.00	-7.74
	QPSK	1779.3	V	144	205	3.05	1 / 0	20.10	23.15	0.207	30.00	-6.85
	16-QAM	1745.0	V	156	207	2.94	1 / 3	18.90	21.84	0.153	30.00	-8.16
20 MHz	WCP	1720.0	V	100	294	2.90	1 / 0	18.58	21.48	0.141	30.00	-8.52

Table 7-32. EIRP Data (LTE Band 66/4 – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 156 of 200



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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
40 MHz	$\pi/2$ BPSK	1730.0	V	154	221	2.92	1 / 161	19.97	22.89	0.194	30.00	-7.11
	$\pi/2$ BPSK	1745.0	V	156	217	2.94	1 / 108	20.33	23.27	0.212	30.00	-6.73
	$\pi/2$ BPSK	1760.0	V	143	219	2.99	1 / 108	21.02	24.01	0.252	30.00	-5.99
	QPSK	1730.0	V	154	221	2.92	1 / 161	19.99	22.91	0.195	30.00	-7.09
	QPSK	1745.0	V	156	217	2.94	1 / 108	20.33	23.27	0.212	30.00	-6.73
	QPSK	1760.0	V	143	219	2.99	1 / 108	21.05	24.04	0.253	30.00	-5.96
	16-QAM	1730.0	V	154	221	2.92	1 / 161	19.05	21.97	0.157	30.00	-8.03
30 MHz	$\pi/2$ BPSK	1725.0	V	154	221	2.91	1 / 119	20.06	22.97	0.198	30.00	-7.03
	$\pi/2$ BPSK	1745.0	V	156	217	2.94	1 / 80	20.29	23.23	0.210	30.00	-6.77
	$\pi/2$ BPSK	1765.0	V	143	219	3.00	1 / 40	20.81	23.81	0.241	30.00	-6.19
	QPSK	1725.0	V	154	221	2.91	1 / 119	20.06	22.97	0.198	30.00	-7.03
	QPSK	1745.0	V	156	217	2.94	1 / 80	20.32	23.26	0.212	30.00	-6.74
	QPSK	1765.0	V	143	219	3.00	1 / 40	21.03	24.04	0.253	30.00	-5.96
	16-QAM	1745.0	V	156	217	2.94	1 / 80	19.92	22.86	0.193	30.00	-7.14
20 MHz	$\pi/2$ BPSK	1720.0	V	154	221	2.90	1 / 79	20.02	22.92	0.196	30.00	-7.08
	$\pi/2$ BPSK	1745.0	V	156	217	2.94	1 / 26	20.18	23.12	0.205	30.00	-6.88
	$\pi/2$ BPSK	1770.0	V	143	219	3.02	1 / 53	20.79	23.81	0.241	30.00	-6.19
	QPSK	1720.0	V	154	221	2.90	1 / 79	20.06	22.96	0.198	30.00	-7.04
	QPSK	1745.0	V	156	217	2.94	1 / 26	20.27	23.21	0.210	30.00	-6.79
	QPSK	1770.0	V	143	219	3.02	1 / 53	20.82	23.85	0.242	30.00	-6.15
	16-QAM	1720.0	V	154	221	2.90	1 / 79	19.00	21.90	0.155	30.00	-8.10
15 MHz	$\pi/2$ BPSK	1717.5	V	154	221	2.89	1 / 58	20.08	22.97	0.198	30.00	-7.03
	$\pi/2$ BPSK	1745.0	V	156	217	2.94	1 / 39	20.23	23.18	0.208	30.00	-6.82
	$\pi/2$ BPSK	1772.5	V	143	219	3.03	1 / 58	20.68	23.71	0.235	30.00	-6.29
	QPSK	1717.5	V	154	221	2.89	1 / 58	20.09	22.98	0.199	30.00	-7.02
	QPSK	1745.0	V	156	217	2.94	1 / 39	20.31	23.25	0.212	30.00	-6.75
	QPSK	1772.5	V	143	219	3.03	1 / 58	20.85	23.87	0.244	30.00	-6.13
	16-QAM	1745.0	V	156	217	2.94	1 / 39	19.74	22.69	0.186	30.00	-7.31
10 MHz	$\pi/2$ BPSK	1715.0	V	154	221	2.89	1 / 26	19.94	22.83	0.192	30.00	-7.17
	$\pi/2$ BPSK	1745.0	V	156	217	2.94	1 / 38	20.12	23.07	0.203	30.00	-6.93
	$\pi/2$ BPSK	1775.0	V	143	219	3.04	1 / 13	20.56	23.60	0.229	30.00	-6.40
	QPSK	1715.0	V	154	221	2.89	1 / 26	19.85	22.74	0.188	30.00	-7.26
	QPSK	1745.0	V	156	217	2.94	1 / 38	20.06	23.01	0.200	30.00	-6.99
	QPSK	1775.0	V	143	219	3.04	1 / 13	20.73	23.77	0.238	30.00	-6.23
	16-QAM	1745.0	V	156	217	2.94	1 / 38	19.62	22.56	0.180	30.00	-7.44
5 MHz	$\pi/2$ BPSK	1712.5	V	154	221	2.88	1 / 18	19.85	22.73	0.188	30.00	-7.27
	$\pi/2$ BPSK	1745.0	V	156	217	2.94	1 / 12	20.12	23.06	0.202	30.00	-6.94
	$\pi/2$ BPSK	1777.5	V	143	219	3.05	1 / 6	20.53	23.58	0.228	30.00	-6.42
	QPSK	1712.5	V	154	221	2.88	1 / 18	19.93	22.82	0.191	30.00	-7.18
	QPSK	1745.0	V	156	217	2.94	1 / 12	20.08	23.03	0.201	30.00	-6.97
	QPSK	1777.5	V	143	219	3.05	1 / 6	20.74	23.79	0.239	30.00	-6.21
	16-QAM	1712.5	V	154	221	2.88	1 / 18	19.08	21.96	0.157	30.00	-8.04
40 MHz	QPSK (CP-OFDM)	1760.0	V	143	219	2.99	1 / 108	19.48	22.47	0.176	30.00	-7.53
	QPSK (WCP)	1760.0	V	139	221	2.99	1 / 108	18.48	21.47	0.140	30.00	-8.53

Table 7-33. EIRP Data (NR Band n66 – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
20 MHz	QPSK	1720.0	H	189	313	2.88	1 / 50	18.84	21.72	0.148	30.00	-8.28
	QPSK	1745.0	H	177	306	2.84	1 / 0	18.74	21.58	0.144	30.00	-8.42
	QPSK	1770.0	H	181	310	2.79	1 / 99	16.45	19.24	0.084	30.00	-10.76
	16-QAM	1720.0	H	189	313	2.88	1 / 50	18.07	20.95	0.124	30.00	-9.05
15 MHz	QPSK	1717.5	H	189	313	2.88	1 / 74	18.86	21.74	0.149	30.00	-8.26
	QPSK	1745.0	H	177	306	2.84	1 / 0	18.90	21.74	0.149	30.00	-8.26
	QPSK	1772.5	H	181	310	2.79	1 / 74	16.33	19.12	0.082	30.00	-10.88
	16-QAM	1717.5	H	189	313	2.88	1 / 74	18.10	20.98	0.125	30.00	-9.02
10 MHz	QPSK	1715.0	H	189	313	2.88	1 / 49	18.92	21.81	0.152	30.00	-8.19
	QPSK	1745.0	H	177	306	2.84	1 / 25	18.71	21.55	0.143	30.00	-8.45
	QPSK	1775.0	H	181	310	2.78	1 / 49	16.55	19.33	0.086	30.00	-10.67
	16-QAM	1745.0	H	177	306	2.84	1 / 0	18.33	21.17	0.131	30.00	-8.83
5 MHz	QPSK	1712.5	H	189	313	2.89	1 / 12	18.99	21.88	0.154	30.00	-8.12
	QPSK	1745.0	H	177	306	2.84	1 / 12	18.76	21.60	0.145	30.00	-8.40
	QPSK	1777.5	H	181	310	2.77	1 / 12	16.58	19.35	0.086	30.00	-10.65
	16-QAM	1745.0	H	177	306	2.84	1 / 12	18.36	21.20	0.132	30.00	-8.80
3 MHz	QPSK	1711.5	H	189	313	2.89	1 / 7	18.89	21.78	0.151	30.00	-8.22
	QPSK	1745.0	H	177	306	2.84	1 / 7	18.70	21.54	0.143	30.00	-8.46
	QPSK	1778.5	H	181	310	2.77	1 / 7	16.61	19.38	0.087	30.00	-10.62
	16-QAM	1745.0	H	177	306	2.84	1 / 7	18.07	20.91	0.123	30.00	-9.09
1.4 MHz	QPSK	1710.7	H	189	313	2.89	1 / 5	18.88	21.77	0.150	30.00	-8.23
	QPSK	1745.0	H	177	306	2.84	1 / 3	18.66	21.50	0.141	30.00	-8.50
	QPSK	1779.3	H	181	310	2.77	1 / 3	16.58	19.35	0.086	30.00	-10.65
	16-QAM	1779.3	H	181	310	2.77	1 / 5	16.11	18.88	0.077	30.00	-11.12
20 MHz	WCP	1720.0	H	184	311	2.88	1 / 50	18.13	21.01	0.126	30.00	-8.99

Table 7-34. EIRP Data (LTE Band 66/4 – ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
40 MHz	$\pi/2$ BPSK	1730.0	V	150	183	2.92	1 / 108	18.26	21.18	0.131	30.00	-8.82
	$\pi/2$ BPSK	1745.0	V	147	210	2.94	1 / 108	18.67	21.61	0.145	30.00	-8.39
	$\pi/2$ BPSK	1760.0	V	143	230	2.99	1 / 108	17.68	20.67	0.117	30.00	-9.33
	QPSK	1730.0	V	150	183	2.92	1 / 108	18.22	21.14	0.130	30.00	-8.86
	QPSK	1745.0	V	147	210	2.94	1 / 108	18.62	21.56	0.143	30.00	-8.44
	QPSK	1760.0	V	143	230	2.99	1 / 108	17.63	20.62	0.115	30.00	-9.38
	16-QAM	1745.0	V	147	210	2.94	1 / 108	17.65	20.59	0.115	30.00	-9.41
30 MHz	$\pi/2$ BPSK	1725.0	V	150	183	2.91	1 / 80	18.25	21.16	0.131	30.00	-8.84
	$\pi/2$ BPSK	1745.0	V	147	210	2.94	1 / 40	18.68	21.63	0.145	30.00	-8.37
	$\pi/2$ BPSK	1765.0	V	143	230	3.00	1 / 40	17.71	20.71	0.118	30.00	-9.29
	QPSK	1725.0	V	150	183	2.91	1 / 80	18.25	21.16	0.131	30.00	-8.84
	QPSK	1745.0	V	147	210	2.94	1 / 40	18.60	21.54	0.143	30.00	-8.46
	QPSK	1765.0	V	143	230	3.00	1 / 40	17.68	20.69	0.117	30.00	-9.31
	16-QAM	1745.0	V	147	210	2.94	1 / 40	17.72	20.66	0.116	30.00	-9.34
20 MHz	$\pi/2$ BPSK	1720.0	V	150	183	2.90	1 / 79	18.33	21.22	0.133	30.00	-8.78
	$\pi/2$ BPSK	1745.0	V	147	210	2.94	1 / 26	18.61	21.55	0.143	30.00	-8.45
	$\pi/2$ BPSK	1770.0	V	143	230	3.02	1 / 79	17.55	20.57	0.114	30.00	-9.43
	QPSK	1720.0	V	150	183	2.90	1 / 79	18.17	21.07	0.128	30.00	-8.93
	QPSK	1745.0	V	147	210	2.94	1 / 26	18.54	21.48	0.141	30.00	-8.52
	QPSK	1770.0	V	143	230	3.02	1 / 79	17.56	20.58	0.114	30.00	-9.42
	16-QAM	1745.0	V	147	210	2.94	1 / 26	17.77	20.72	0.118	30.00	-9.28
15 MHz	$\pi/2$ BPSK	1717.5	V	150	183	2.89	1 / 58	18.29	21.19	0.131	30.00	-8.81
	$\pi/2$ BPSK	1745.0	V	147	210	2.94	1 / 20	18.60	21.54	0.143	30.00	-8.46
	$\pi/2$ BPSK	1772.5	V	143	230	3.03	1 / 58	17.59	20.62	0.115	30.00	-9.38
	QPSK	1717.5	V	150	183	2.89	1 / 58	18.20	21.10	0.129	30.00	-8.90
	QPSK	1745.0	V	147	210	2.94	1 / 20	18.63	21.57	0.144	30.00	-8.43
	QPSK	1772.5	V	143	230	3.03	1 / 58	17.48	20.51	0.112	30.00	-9.49
	16-QAM	1717.5	V	150	183	2.89	1 / 58	17.38	20.28	0.107	30.00	-9.72
10 MHz	$\pi/2$ BPSK	1715.0	V	150	183	2.89	1 / 38	18.26	21.15	0.130	30.00	-8.85
	$\pi/2$ BPSK	1745.0	V	147	210	2.94	1 / 38	18.52	21.46	0.140	30.00	-8.54
	$\pi/2$ BPSK	1775.0	V	143	230	3.04	1 / 38	17.51	20.54	0.113	30.00	-9.46
	QPSK	1715.0	V	150	183	2.89	1 / 38	18.21	21.10	0.129	30.00	-8.90
	QPSK	1745.0	V	147	210	2.94	1 / 38	18.52	21.46	0.140	30.00	-8.54
	QPSK	1775.0	V	143	230	3.04	1 / 38	17.54	20.57	0.114	30.00	-9.43
	16-QAM	1715.0	V	150	183	2.89	1 / 38	17.37	20.26	0.106	30.00	-9.74
5 MHz	$\pi/2$ BPSK	1712.5	V	150	183	2.88	1 / 12	18.25	21.14	0.130	30.00	-8.86
	$\pi/2$ BPSK	1745.0	V	147	210	2.94	1 / 12	18.62	21.56	0.143	30.00	-8.44
	$\pi/2$ BPSK	1777.5	V	143	230	3.05	1 / 18	17.68	20.73	0.118	30.00	-9.27
	QPSK	1712.5	V	150	183	2.88	1 / 12	18.07	20.96	0.125	30.00	-9.04
	QPSK	1745.0	V	147	210	2.94	1 / 12	18.55	21.50	0.141	30.00	-8.50
	QPSK	1777.5	V	143	230	3.05	1 / 18	17.46	20.50	0.112	30.00	-9.50
	16-QAM	1777.5	V	143	230	3.05	1 / 18	16.58	19.62	0.092	30.00	-10.38
40 MHz	QPSK (CP-OFDM)	1745.0	V	146	210	2.94	1 / 108	17.06	20.00	0.100	30.00	-10.00
	QPSK (WCP)	1745.0	V	146	215	2.94	1 / 108	15.54	18.48	0.071	30.00	-11.52

Table 7-35. EIRP Data (NR Band n66 – ANT F)

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7.8 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 x RBW
3. Span = 1.5 times the OBW
4. No. of sweep points \geq 2 x span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

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

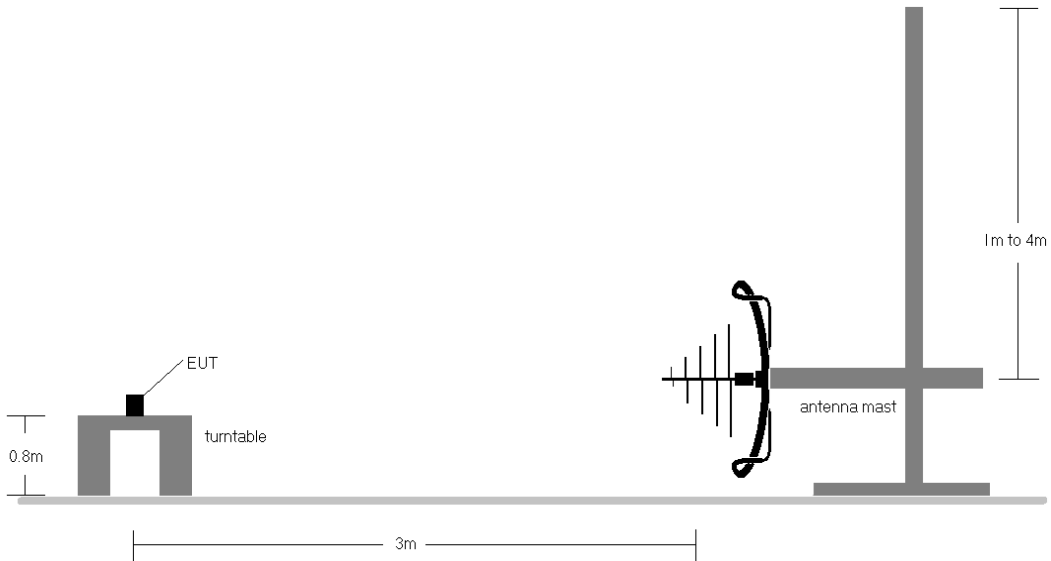


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

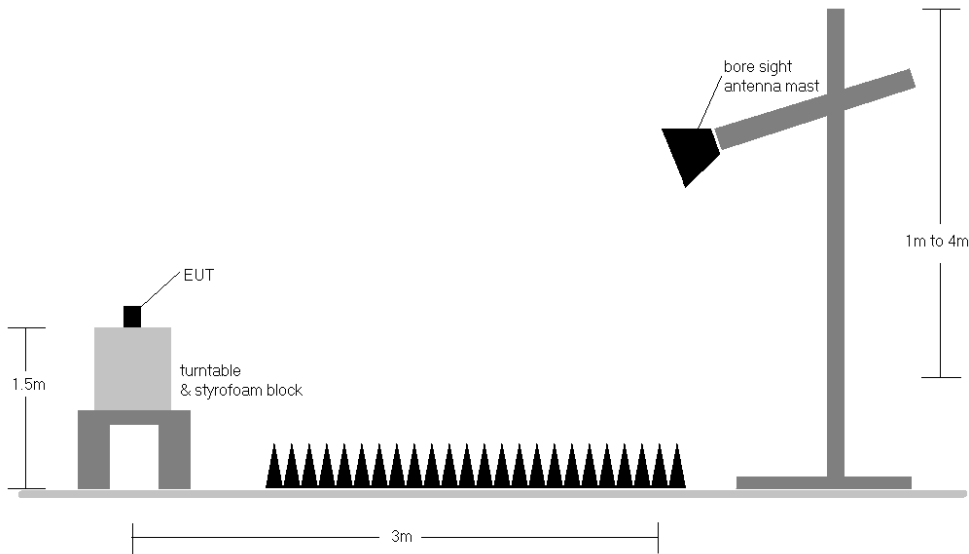


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

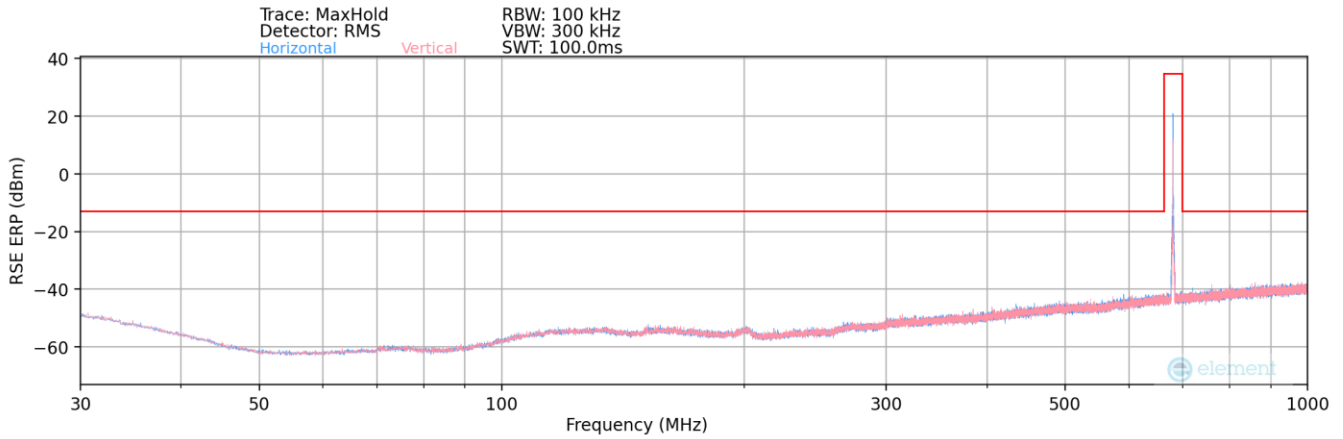
FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

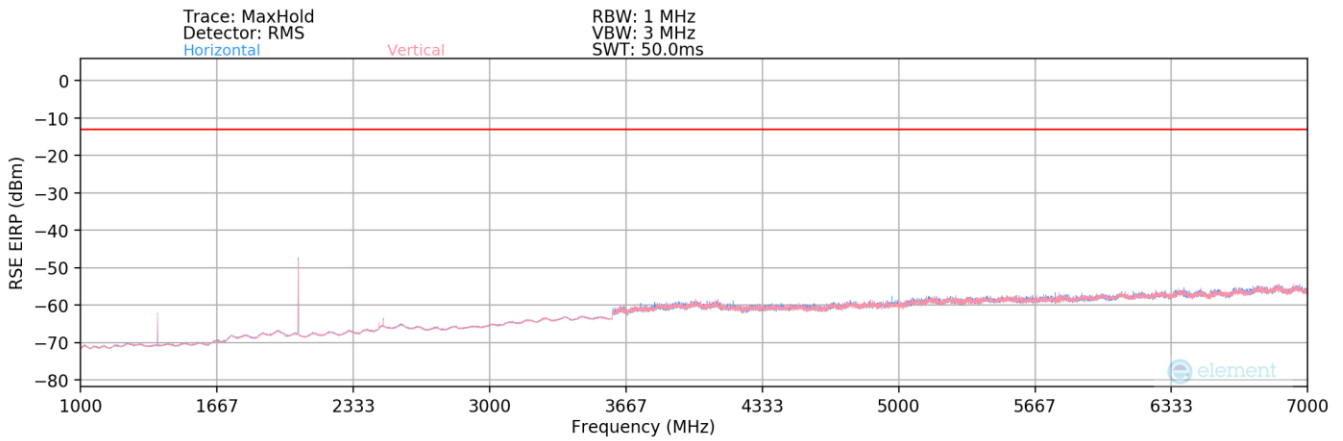
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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) ULCA spurious emissions measurements were evaluated for the two contiguous channels using various combinations of RB size, RB offset, modulation, and channel bandwidth. Channel bandwidth data is shown in the tables below based only on the channel bandwidths that were supported in this device.
- 8) 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.
- 9) Spurious emission in EN-DC Operating mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor) has been checked and was found to not to be the worst case.

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LTE Band 71 – ANT A



Plot 7-202. Radiated Spurious Plot (LTE Band 71 – Below 1GHz – ANT A)



Plot 7-203. Radiated Spurious Plot (LTE Band 71 – ANT A)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
111.77	H	-	-	-90.13	19.46	36.33	-61.08	-13.00	-48.08
175.32	H	-	-	-89.17	18.64	36.47	-60.94	-13.00	-47.94
389.15	H	-	-	-89.29	22.77	40.48	-56.93	-13.00	-43.93

Table 7-36. Radiated Spurious Data (LTE Band 71 – Below 1GHz – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	673
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.00	H	295	45	-62.11	-11.32	33.57	-61.68	-13.00	-48.68
2019.00	H	135	186	-53.16	-7.86	45.98	-49.28	-13.00	-36.28
2692.00	H	-	-	-73.35	-6.46	27.19	-68.07	-13.00	-55.07
3365.00	H	-	-	-73.64	-3.61	29.75	-65.51	-13.00	-52.51
4038.00	H	-	-	-74.53	-1.62	30.85	-64.41	-13.00	-51.41

Table 7-37. Radiated Spurious Data (LTE Band 71 – Low Channel – ANT A)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	H	284	55	-60.76	-11.34	34.90	-60.35	-13.00	-47.35
2041.50	H	188	219	-50.05	-7.87	49.08	-46.18	-13.00	-33.18
2722.00	H	-	-	-73.26	-6.58	27.16	-68.10	-13.00	-55.10
3402.50	H	-	-	-73.96	-3.67	29.37	-65.89	-13.00	-52.89
4083.00	H	-	-	-74.31	-1.85	30.84	-64.42	-13.00	-51.42

Table 7-38. Radiated Spurious Data (LTE Band 71 – Mid Channel – ANT A)

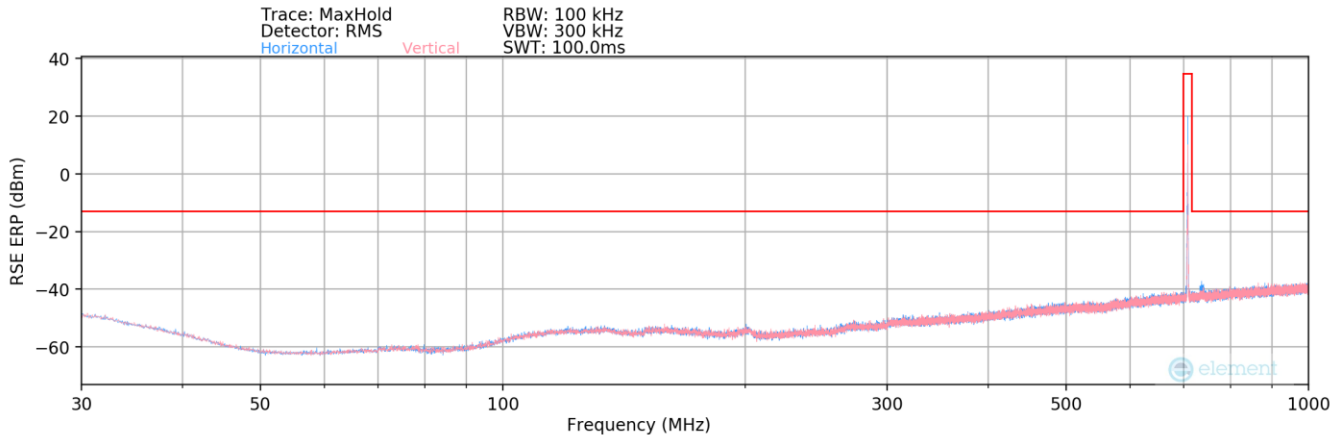
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.00	H	276	56	-62.43	-11.15	33.42	-61.84	-13.00	-48.84
2064.00	H	220	216	-51.48	-7.97	47.55	-47.70	-13.00	-34.70
2752.00	H	-	-	-73.12	-6.28	27.60	-67.65	-13.00	-54.65
3440.00	H	-	-	-73.39	-3.66	29.95	-65.30	-13.00	-52.30
4128.00	H	-	-	-74.27	-1.97	30.76	-64.49	-13.00	-51.49

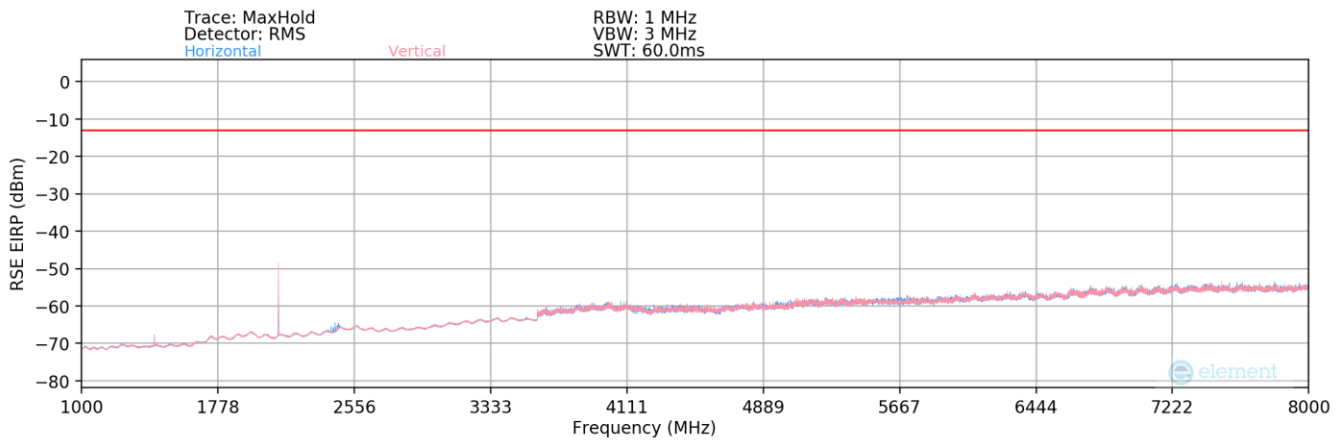
Table 7-39. Radiated Spurious Data (LTE Band 71 – High Channel – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 12 – ANT A



Plot 7-204. Radiated Spurious Plot (LTE Band 12 – Below 1GHz – ANT A)



Plot 7-205. Radiated Spurious Plot (LTE Band 12 – ANT A)

Bandwidth (MHz):	10
Frequency (MHz):	711
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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
900.00	V	-	-	-95.99	30.92	41.93	-55.48		-55.48

Table 7-40. Radiated Spurious Data (LTE Band 12 – Below 1GHz – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 165 of 200

Bandwidth (MHz):	10
Frequency (MHz):	704
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.00	V	146	259	-70.65	-10.97	25.38	-69.88	-13.00	-56.88
2112.00	V	134	293	-54.91	-8.21	43.88	-51.38	-13.00	-38.38
2816.00	V	-	-	-73.61	-6.05	27.34	-67.92	-13.00	-54.92
3520.00	V	-	-	-73.59	-3.64	29.77	-65.49	-13.00	-52.49
4224.00	V	-	-	-74.40	-2.59	30.01	-65.24	-13.00	-52.24

Table 7-41. Radiated Spurious Data (LTE Band 12 – Low Channel – ANT A)

Bandwidth (MHz):	10
Frequency (MHz):	707.5
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.00	V	146	4	-67.36	-10.98	28.66	-66.60	-13.00	-53.60
2122.50	V	106	286	-54.99	-8.11	43.90	-51.35	-13.00	-38.35
2830.00	V	-	-	-73.77	-5.91	27.32	-67.94	-13.00	-54.94
3537.50	V	-	-	-73.62	-3.73	29.65	-65.61	-13.00	-52.61
4245.00	V	-	-	-74.73	-2.61	29.66	-65.59	-13.00	-52.59

Table 7-42. Radiated Spurious Data (LTE Band 12 – Mid Channel – ANT A)

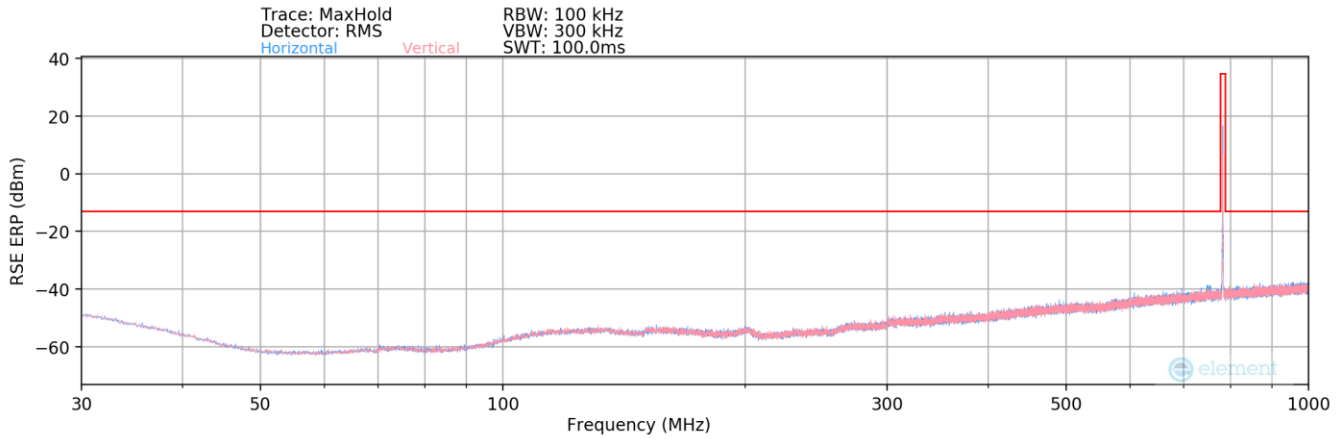
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.00	V	145	8	-66.52	-10.95	29.53	-65.73	-13.00	-52.73
2133.00	V	206	282	-52.71	-7.93	46.36	-48.90	-13.00	-35.90
2844.00	V	-	-	-73.81	-5.88	27.31	-67.94	-13.00	-54.94
3555.00	V	-	-	-73.52	-3.56	29.92	-65.34	-13.00	-52.34
4266.00	V	-	-	-74.02	-2.50	30.48	-64.78	-13.00	-51.78

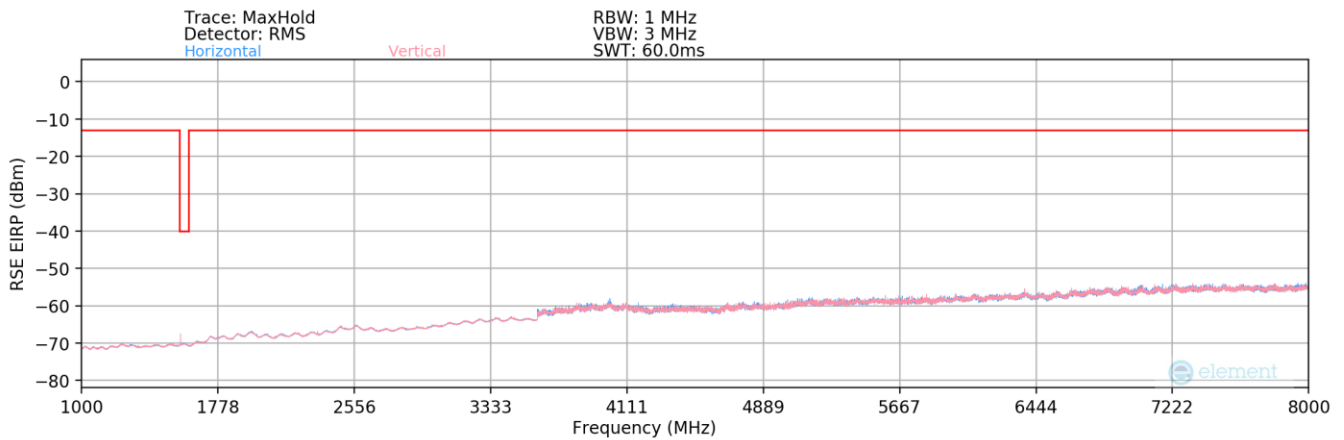
Table 7-43. Radiated Spurious Data (LTE Band 12 – High Channel – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 166 of 200

LTE Band 13 – ANT A



Plot 7-206. Radiated Spurious Plot (LTE Band 13 – Below 1GHz – ANT A)



Plot 7-207. Radiated Spurious Plot (LTE Band 13 – ANT A)

Bandwidth (MHz):	10
Frequency (MHz):	782
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]
900.00	H	-	-	-96.03	30.92	41.89	-53.37	-13.00	-40.37

Table 7-44. Radiated Spurious Data (LTE Band 13 – Below 1GHz – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 167 of 200



Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

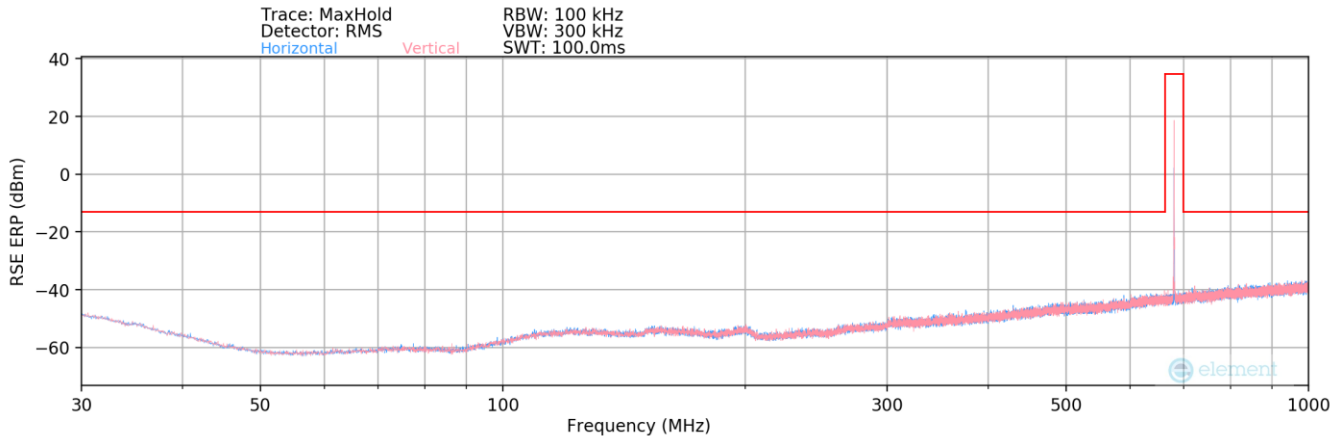
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1564.00	H	104	284	-69.03	-10.67	27.30	-67.95	-40.00	-27.95
2346.00	H	113	123	-73.17	-7.26	26.57	-68.69	-13.00	-55.69
3128.00	H	-	-	-73.74	-4.75	28.51	-66.75	-13.00	-53.75
3910.00	H	-	-	-74.20	-2.11	30.69	-64.57	-13.00	-51.57
4692.00	H	-	-	-74.44	-2.11	30.45	-64.80	-13.00	-51.80

Table 7-45. Radiated Spurious Data (LTE Band 13 – Mid Channel – ANT A)

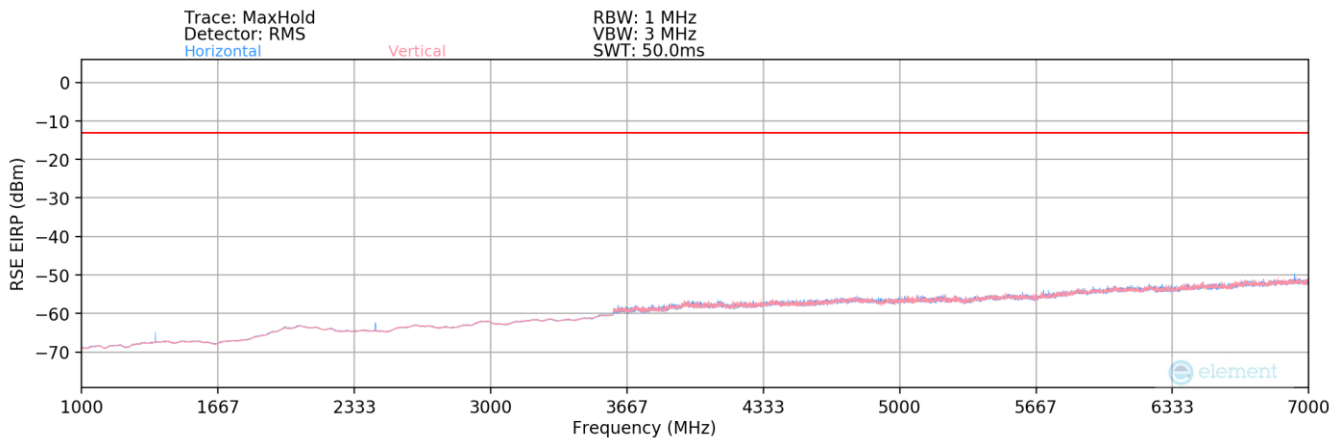
FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 168 of 200



NR Band n71 – ANT A



Plot 7-208. Radiated Spurious Plot (NR Band n71 – Below 1GHz – ANT A)



Plot 7-209. Radiated Spurious Plot (NR Band n71 – ANT A)

Bandwidth (MHz):	20
Frequency (MHz):	673
RB / Offset:	1 / 53
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.00	H	119	240	-70.70	-7.00	29.30	-65.96	-13.00	-52.96
2019.00	H	-	-	-77.15	-3.11	26.74	-68.51	-13.00	-55.51
2692.00	H	-	-	-77.37	-2.69	26.94	-68.32	-13.00	-55.32
3365.00	H	-	-	-77.70	-1.18	28.12	-67.14	-13.00	-54.14

Table 7-46. Radiated Spurious Data (NR Band n71 – Below 1GHz – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 169 of 200



Bandwidth (MHz):	20
Frequency (MHz):	673
RB / Offset:	1 / 53
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.00	H	119	240	-70.70	-7.00	29.30	-65.96	-13.00	-52.96
2019.00	H	-	-	-77.15	-3.11	26.74	-68.51	-13.00	-55.51
2692.00	H	-	-	-77.37	-2.69	26.94	-68.32	-13.00	-55.32
3365.00	H	-	-	-77.70	-1.18	28.12	-67.14	-13.00	-54.14

Table 7-47. Radiated Spurious Data (NR Band n71 – Low Channel – ANT A)

Bandwidth (MHz):	20
Frequency (MHz):	680.5
RB / Offset:	1 / 53
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.00	H	109	241	-71.79	-7.06	28.15	-67.10	-13.00	-54.10
2041.50	H	-	-	-77.27	-2.87	26.86	-68.39	-13.00	-55.39
2722.00	H	-	-	-77.47	-2.94	26.59	-68.67	-13.00	-55.67
3402.50	H	-	-	-77.37	-1.21	28.42	-66.84	-13.00	-53.84

Table 7-48. Radiated Spurious Data (NR Band n71 – Mid Channel – ANT A)

Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 53
Mode:	Stand Alone

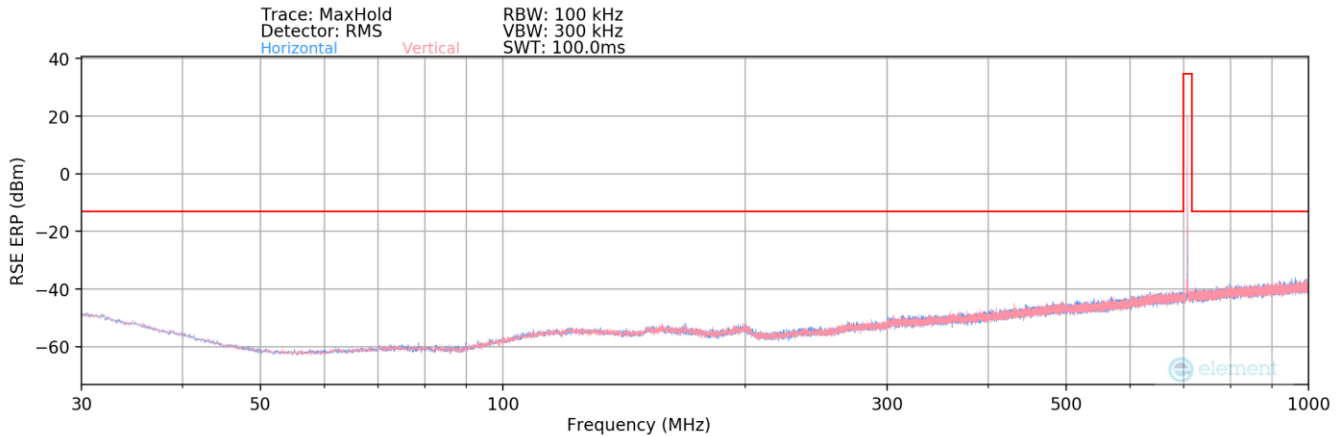
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.00	H	176	230	-72.38	-6.85	27.77	-67.49	-13.00	-54.49
2064.00	H	214	252	-76.58	-2.76	27.66	-67.59	-13.00	-54.59
2752.00	H	-	-	-77.46	-3.04	26.50	-68.75	-13.00	-55.75
3440.00	H	-	-	-77.60	-1.02	28.38	-66.87	-13.00	-53.87
4128.00	H	-	-	-77.55	1.54	30.99	-64.27	-13.00	-51.27

Table 7-49. Radiated Spurious Data (NR Band n71 – High Channel – ANT A)

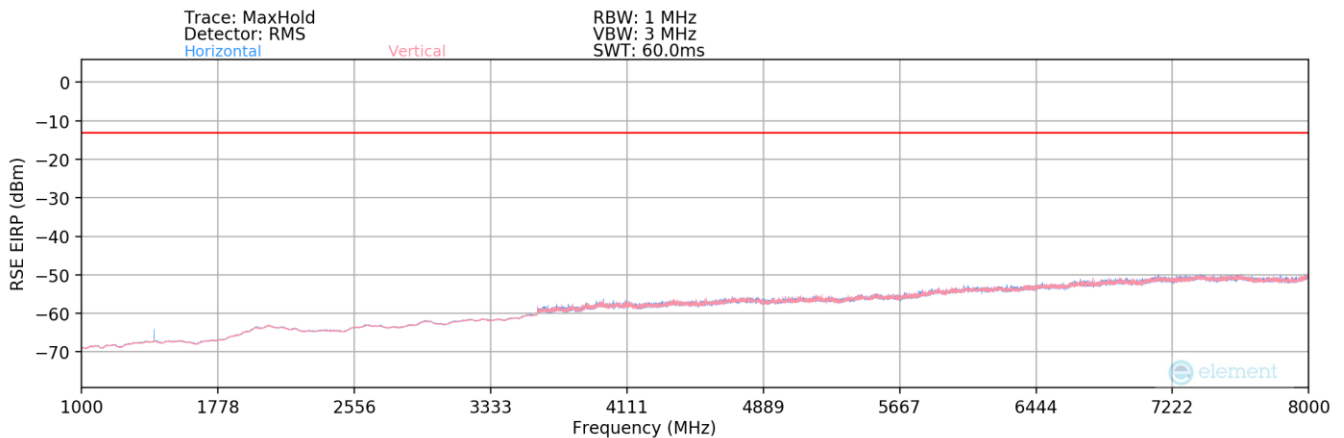
FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 170 of 200



NR Band n12 – ANT A



Plot 7-210. Radiated Spurious Plot (NR Band n12 – Below 1GHz – ANT A)



Plot 7-211. Radiated Spurious Plot (NR Band n12 – ANT A)

Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1 / 39
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.00	H	159	224	-72.98	-6.85	27.17	-68.08	-13.00	-55.08
2119.50	H	-	-	-77.37	-2.93	26.70	-68.56	-13.00	-55.56
2826.00	H	-	-	-77.90	-2.87	26.23	-69.02	-13.00	-56.02
3532.50	H	-	-	-78.03	-0.23	28.74	-66.51	-13.00	-53.51

Table 7-50. Radiated Spurious Data (NR Band n12 – Below 1GHz – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	15
Frequency (MHz):	706.5
RB / Offset:	1 / 39
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.00	H	159	224	-72.98	-6.85	27.17	-68.08	-13.00	-55.08
2119.50	H	-	-	-77.37	-2.93	26.70	-68.56	-13.00	-55.56
2826.00	H	-	-	-77.90	-2.87	26.23	-69.02	-13.00	-56.02
3532.50	H	-	-	-78.03	-0.23	28.74	-66.51	-13.00	-53.51

Table 7-51. Radiated Spurious Data (NR Band n12 – Low Channel – ANT A)

Bandwidth (MHz):	15
Frequency (MHz):	707.5
RB / Offset:	1 / 39
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.00	H	112	224	-71.67	-6.86	28.47	-66.79	-13.00	-53.79
2122.50	H	253	196	-77.33	-2.97	26.70	-68.56	-13.00	-55.56
2830.00	H	-	-	-77.22	-2.85	26.93	-68.33	-13.00	-55.33
3537.50	H	-	-	-77.89	-0.17	28.94	-66.32	-13.00	-53.32
4245.00	H	-	-	-78.00	1.50	30.50	-64.76	-13.00	-51.76

Table 7-52. Radiated Spurious Data (NR Band n12 – Mid Channel – ANT A)

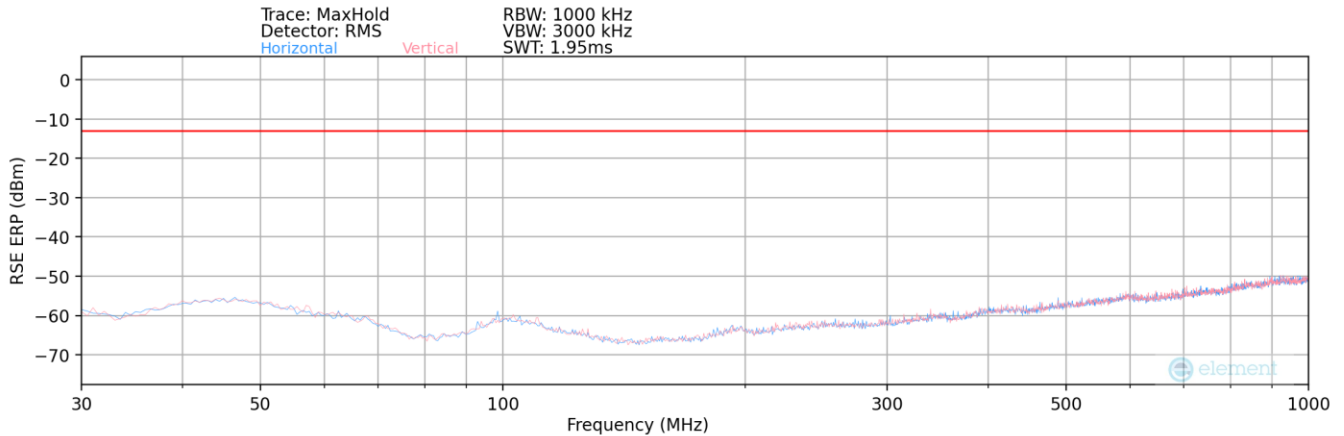
Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 39
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.00	H	160	216	-70.75	-6.87	29.38	-65.87	-13.00	-52.87
2125.50	H	143	179	-77.07	-3.02	26.91	-68.35	-13.00	-55.35
2834.00	H	-	-	-77.77	-2.84	26.39	-68.87	-13.00	-55.87
3542.50	H	-	-	-78.05	-0.13	28.82	-66.44	-13.00	-53.44
4251.00	H	-	-	-78.18	1.55	30.37	-64.89	-13.00	-51.89

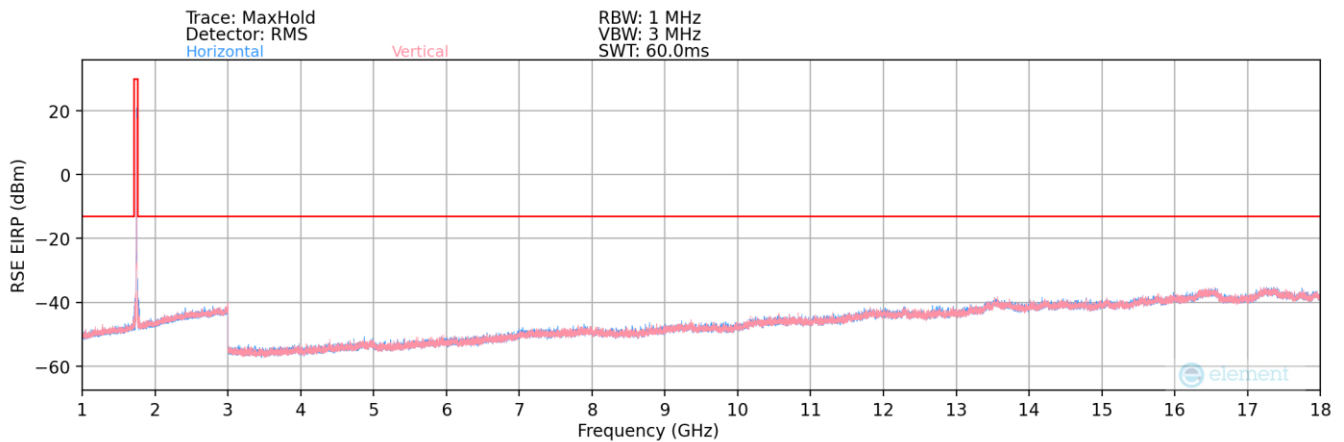
Table 7-53. Radiated Spurious Data (NR Band n12 – High Channel – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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WCDMA AWS – ANT A



Plot 7-212. Radiated Spurious Plot (WCDMA AWS – Below 1GHz – ANT A)



Plot 7-213. Radiated Spurious Plot (WCDMA AWS – ANT A)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
185.13	H	-	-	-72.22	-12.07	22.71	-74.69	-13.00	-61.69

Table 7-54. Radiated Spurious Data (WCDMA AWS – Below 1GHz – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 173 of 200



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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.80	H	-	-	-79.69	6.90	34.21	-61.05	-13.00	-48.05
5137.20	H	100	93	-73.84	10.58	43.74	-51.52	-13.00	-38.52
6849.60	H	220	49	-78.76	13.90	42.14	-53.12	-13.00	-40.12
8562.00	H	-	-	-83.10	16.45	40.35	-54.90	-13.00	-41.90
10274.40	H	-	-	-83.02	19.76	43.74	-51.52	-13.00	-38.52
11986.80	H	-	-	-83.17	22.06	45.89	-49.37	-13.00	-36.37

7-55. Radiated Spurious Data (WCDMA AWS – Low Channel – ANT A)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.20	H	-	-	-79.69	6.81	34.12	-61.13	-13.00	-48.13
5197.80	H	107	43	-74.71	10.18	42.47	-52.79	-13.00	-39.79
6930.40	H	-	-	-82.06	13.64	38.58	-56.68	-13.00	-43.68
8663.00	H	-	-	-83.05	17.03	40.98	-54.27	-13.00	-41.27
10395.60	H	-	-	-83.03	19.87	43.84	-51.42	-13.00	-38.42

Table 7-56. Radiated Spurious Data (WCDMA AWS – Mid Channel – ANT A)

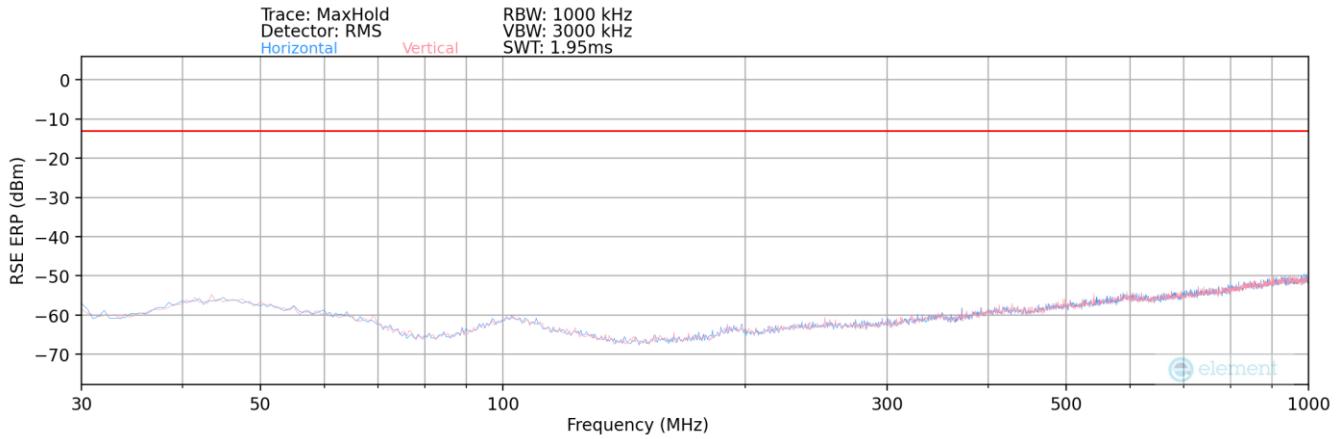
Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.20	H	-	-	-79.82	6.93	34.11	-61.14	-13.00	-48.14
5257.80	H	101	90	-75.27	10.04	41.77	-53.49	-13.00	-40.49
7010.40	H	212	45	-80.33	14.41	41.08	-54.18	-13.00	-41.18
8763.00	H	-	-	-82.62	16.15	40.53	-54.73	-13.00	-41.73
10515.60	H	-	-	-83.17	19.83	43.66	-51.59	-13.00	-38.59
12268.20	H	-	-	-83.81	22.80	45.99	-49.27	-13.00	-36.27

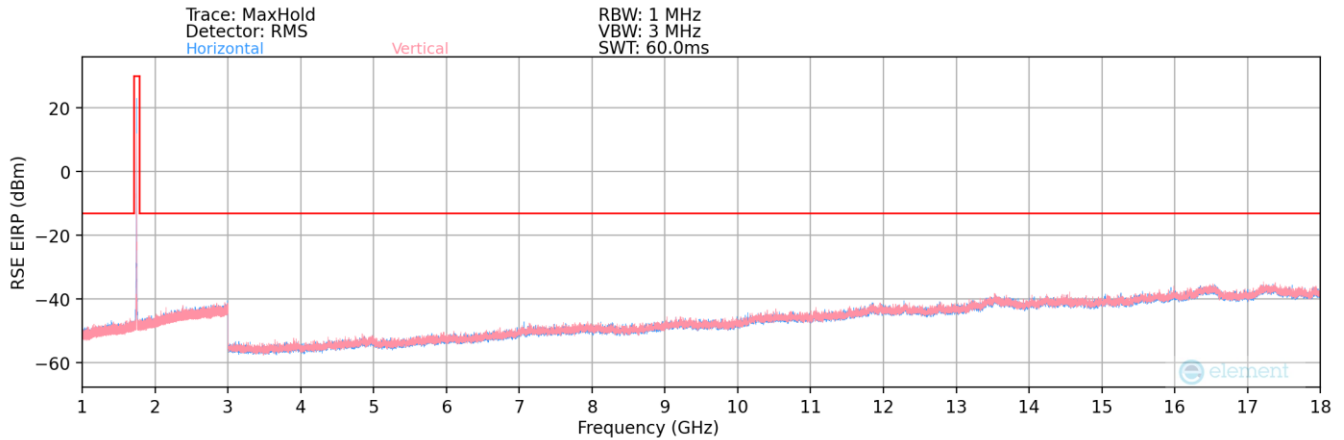
Table 7-57. Radiated Spurious Data (WCDMA AWS – High Channel – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 174 of 200

LTE Band 66/4 – ANT A



Plot 7-214. Radiated Spurious Plot (LTE Band 66/4 – Below 1GHz – ANT A)



Plot 7-215. Radiated Spurious Plot (LTE Band 66/4 – ANT A)

Bandwidth (MHz):	20
Frequency (MHz):	1770
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]
553.11	V	-	-	-76.18	-3.62	27.20	-68.06	-13.00	-55.06

Table 7-58. Radiated Spurious Data (LTE Band 66/4 – Below 1GHz – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 175 of 200

Bandwidth (MHz):	20
Frequency (MHz):	1720
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]
3440.00	V	-	-	-74.23	-2.60	30.17	-65.08	-13.00	-52.08
5160.00	V	108	132	-70.27	-0.32	36.41	-58.84	-13.00	-45.84
6880.00	V	100	338	-68.33	3.25	41.92	-53.34	-13.00	-40.34
8600.00	V	100	220	-70.77	6.08	42.31	-52.95	-13.00	-39.95
10320.00	V	-	-	-78.36	8.02	36.66	-58.60	-13.00	-45.60
12040.00	V	-	-	-78.13	9.87	38.74	-56.51	-13.00	-43.51
13760.00	V	-	-	-78.33	11.17	39.84	-55.41	-13.00	-42.41

Table 7-59. Radiated Spurious Data (LTE Band 66/4 – Low Channel – ANT A)

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	V	-	-	-73.92	-3.19	29.89	-65.37	-13.00	-52.37
5235.00	V	115	278	-71.96	-0.23	34.81	-60.45	-13.00	-47.45
6980.00	V	100	340	-70.31	3.92	40.61	-54.65	-13.00	-41.65
8725.00	V	119	216	-71.13	5.79	41.66	-53.60	-13.00	-40.60
10470.00	V	-	-	-78.35	8.08	36.73	-58.53	-13.00	-45.53
12215.00	V	-	-	-78.65	9.79	38.14	-57.12	-13.00	-44.12
13960.00	V	-	-	-77.99	11.28	40.29	-54.97	-13.00	-41.97

Table 7-60. Radiated Spurious Data (LTE Band 66/4 – Mid Channel – ANT A)

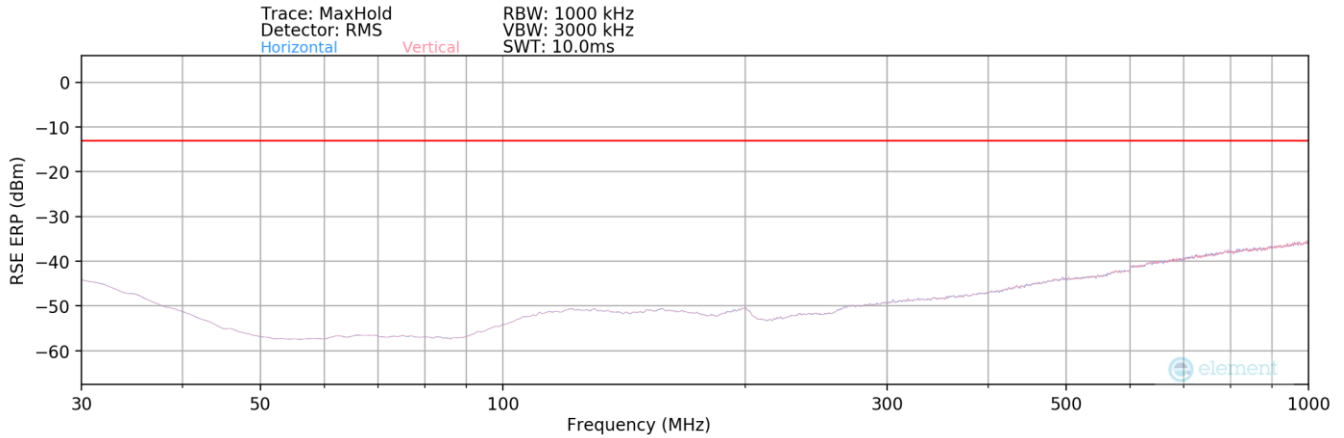
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	V	-	-	-74.48	-2.80	29.72	-65.54	-13.00	-52.54
5310.00	V	108	97	-68.56	0.12	38.56	-56.70	-13.00	-43.70
7080.00	V	112	48	-66.88	3.60	43.72	-51.54	-13.00	-38.54
8850.00	V	100	218	-72.09	6.08	40.99	-54.27	-13.00	-41.27
10620.00	V	-	-	-78.26	8.10	36.84	-58.42	-13.00	-45.42
12390.00	V	-	-	-78.22	9.84	38.62	-56.64	-13.00	-43.64
14160.00	V	-	-	-78.70	12.49	40.79	-54.46	-13.00	-41.46

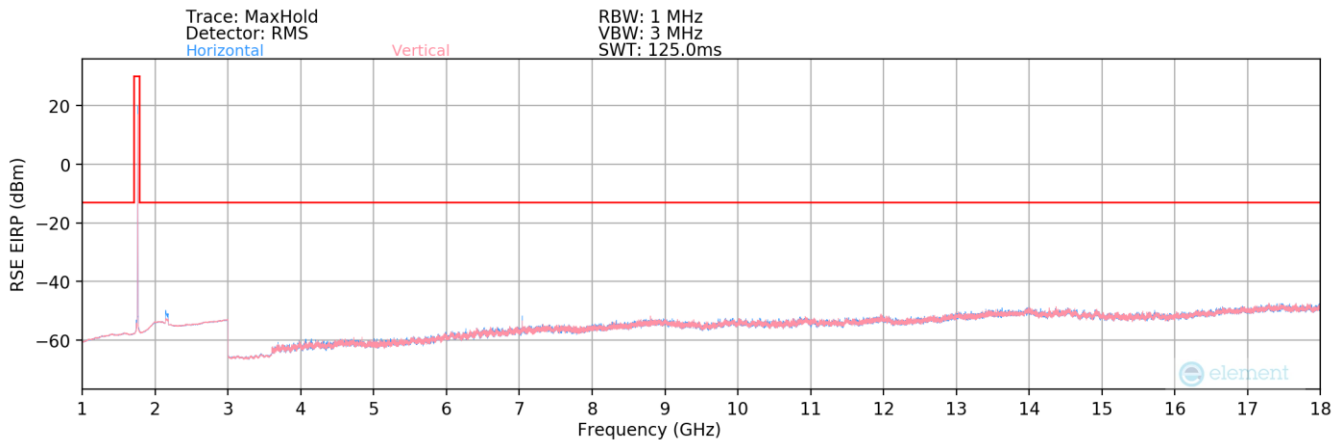
Table 7-61. Radiated Spurious Data (LTE Band 66/4 – High Channel – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 176 of 200

NR Band n66 – ANT A



Plot 7-216. Radiated Spurious Plot (NR Band n66 – Below 1GHz – ANT A)



Plot 7-217. Radiated Spurious Plot (NR Band n66 – ANT A)

Bandwidth (MHz):	40
Frequency (MHz):	1730
RB / Offset:	1 / 108
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.00	H	299	273	-78.61	0.28	28.67	-66.59	-13.00	-53.59
5190.00	H	122	14	-77.26	3.49	33.23	-62.02	-13.00	-49.02
6920.00	H	122	355	-72.93	8.36	42.43	-52.83	-13.00	-39.83
8650.00	H	263	56	-79.45	10.99	38.54	-56.72	-13.00	-43.72
10380.00	H	-	-	-82.06	11.75	36.69	-58.57	-13.00	-45.57
12110.00	H	-	-	-82.89	12.97	37.08	-58.18	-13.00	-45.18
13840.00	H	-	-	-82.76	16.66	40.90	-54.36	-13.00	-41.36

Table 7-62. Radiated Spurious Data (NR Band n66 – Below 1GHz – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 177 of 200



Bandwidth (MHz):	40
Frequency (MHz):	1730
RB / Offset:	1 / 108
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.00	H	299	273	-78.61	0.28	28.67	-66.59	-13.00	-53.59
5190.00	H	122	14	-77.26	3.49	33.23	-62.02	-13.00	-49.02
6920.00	H	122	355	-72.93	8.36	42.43	-52.83	-13.00	-39.83
8650.00	H	263	56	-79.45	10.99	38.54	-56.72	-13.00	-43.72
10380.00	H	-	-	-82.06	11.75	36.69	-58.57	-13.00	-45.57
12110.00	H	-	-	-82.89	12.97	37.08	-58.18	-13.00	-45.18
13840.00	H	-	-	-82.76	16.66	40.90	-54.36	-13.00	-41.36

Table 7-63. Radiated Spurious Data (NR Band n66 – Low Channel – ANT A)

Bandwidth (MHz):	40
Frequency (MHz):	1745
RB / Offset:	1 / 108
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	H	398	56	-75.50	-0.08	31.42	-63.83	-13.00	-50.83
5235.00	H	133	22	-76.84	3.24	33.40	-61.86	-13.00	-48.86
6980.00	H	119	358	-70.46	7.55	44.09	-51.16	-13.00	-38.16
8725.00	H	264	49	-78.59	10.82	39.23	-56.03	-13.00	-43.03
10470.00	H	-	-	-82.82	12.23	36.41	-58.84	-13.00	-45.84
12215.00	H	-	-	-82.57	12.81	37.24	-58.02	-13.00	-45.02
13960.00	H	-	-	-82.68	15.81	40.13	-55.13	-13.00	-42.13

Table 7-64. Radiated Spurious Data (NR Band n66 – Mid Channel – ANT A)

Bandwidth (MHz):	40
Frequency (MHz):	1760
RB / Offset:	1 / 108
Mode:	Stand Alone

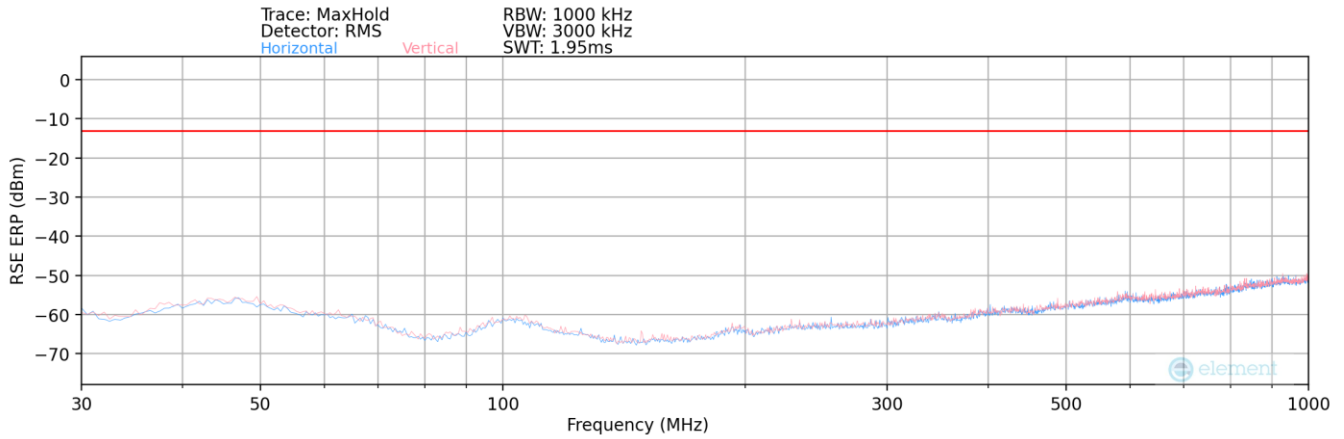
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.00	H	208	225	-76.87	-0.16	29.97	-65.28	-13.00	-52.28
5280.00	H	183	18	-75.87	3.34	34.47	-60.79	-13.00	-47.79
7040.00	H	111	359	-70.54	7.70	44.16	-51.10	-13.00	-38.10
8800.00	H	247	339	-77.75	10.78	40.03	-55.23	-13.00	-42.23
10560.00	H	-	-	-82.06	12.23	37.17	-58.09	-13.00	-45.09
12320.00	H	-	-	-82.16	12.74	37.58	-57.68	-13.00	-44.68
14080.00	H	-	-	-81.71	15.89	41.18	-54.07	-13.00	-41.07

Table 7-65. Radiated Spurious Data (NR Band n66 – High Channel – ANT A)

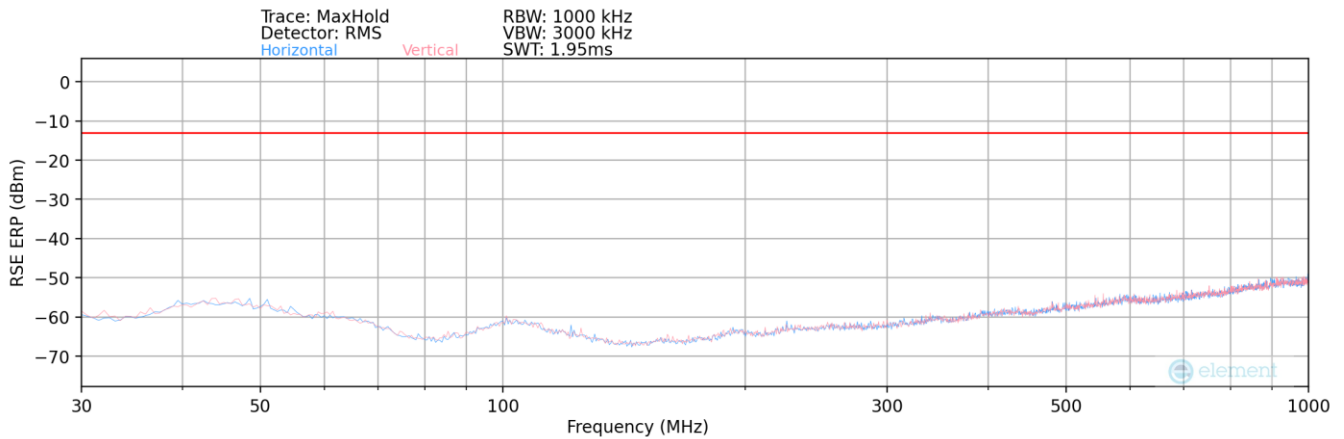
FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 178 of 200



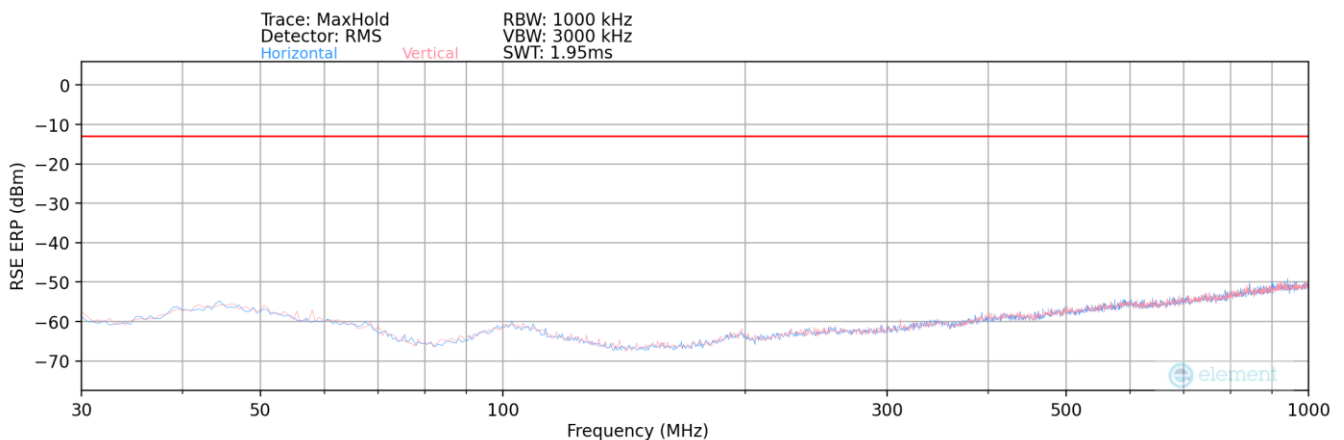
Uplink CA LTE Band 66B/C – ANT A



Plot 7-218. Radiated Spurious Plot (ULCA LTE Band 66 – Low Channel – Below 1GHz – ANT A)

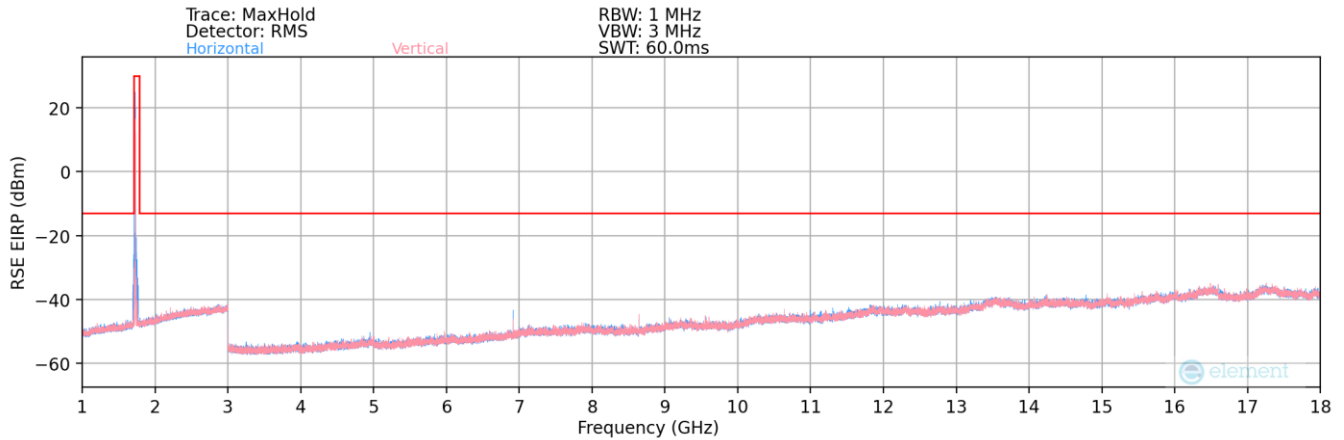


Plot 7-219. Radiated Spurious Plot (ULCA LTE Band 66 – Mid Channel – Below 1GHz – ANT A)

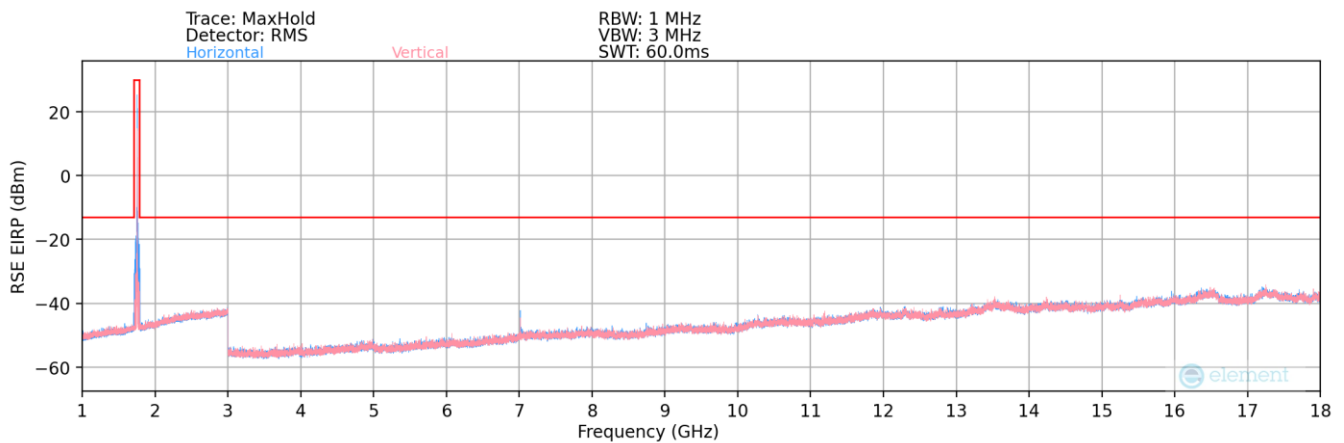


Plot 7-220. Radiated Spurious Plot (ULCA LTE Band 66 – High Channel – Below 1GHz – ANT A)

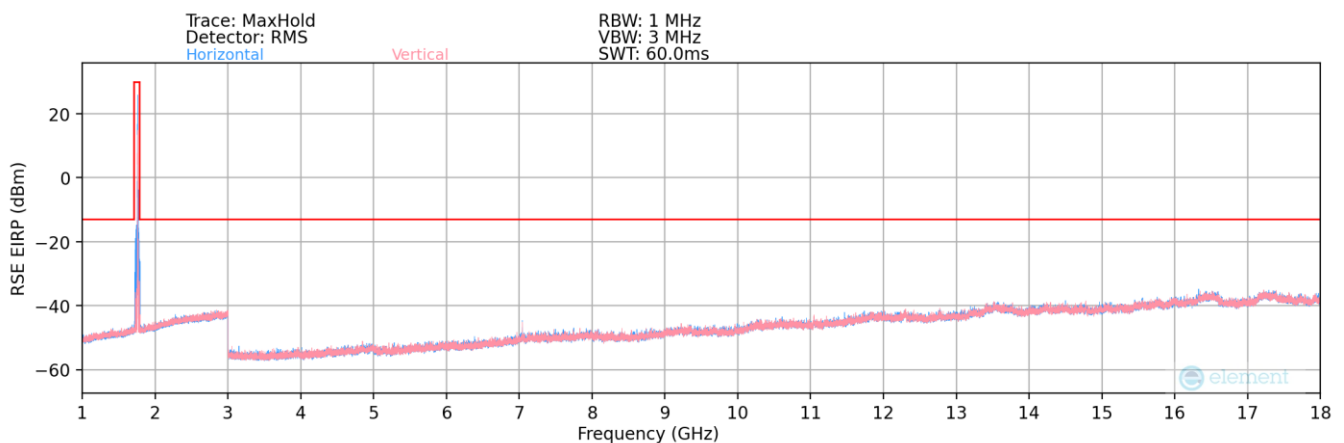
FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 179 of 200



Plot 7-221. Radiated Spurious Plot (ULCA LTE Band 66 – Low Channel – ANT A)



Plot 7-222. Radiated Spurious Plot (ULCA LTE Band 66 – Mid Channel – ANT A)



Plot 7-223. Radiated Spurious Plot (ULCA LTE Band 66 – High Channel – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 180 of 200



PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
629.82	V	-	-	-76.58	-2.17	28.25	-69.16		-69.16

7-66. Radiated Spurious Data (ULCA LTE66 – Below 1GHz – ANT A)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1720.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1739.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	V	-	-	-79.66	7.17	34.51	-60.74	-13.00	-47.74
5160.00	V	-	-	-81.08	10.26	36.18	-59.07	-13.00	-46.07
6880.00	V	115	322	-76.36	13.95	44.59	-50.66	-13.00	-37.66
8600.00	V	109	183	-82.02	17.08	42.06	-53.19	-13.00	-40.19
10320.00	V	-	-	-83.16	19.65	43.49	-51.77	-13.00	-38.77
12040.00	V	-	-	-83.69	22.86	46.17	-49.08	-13.00	-36.08
13760.00	V	-	-	-84.08	26.20	49.12	-46.14	-13.00	-33.14

7-67. Radiated Spurious Data (ULCA LTE66 – Low Channel – ANT A)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	V	-	-	-79.91	7.17	34.26	-61.00	-13.00	-48.00
5235.00	V	101	92	-71.90	9.81	44.91	-50.35	-13.00	-37.35
6980.00	V	110	316	-75.43	14.01	45.58	-49.68	-13.00	-36.68
8725.00	V	107	185	-81.58	16.76	42.18	-53.07	-13.00	-40.07
10470.00	V	-	-	-83.28	19.88	43.60	-51.66	-13.00	-38.66
12215.00	V	-	-	-83.87	22.88	46.01	-49.25	-13.00	-36.25
13960.00	V	-	-	-84.22	26.46	49.24	-46.02	-13.00	-33.02

Table 7-68. Radiated Spurious Data (ULCA LTE66 – Mid Channel – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 181 of 200



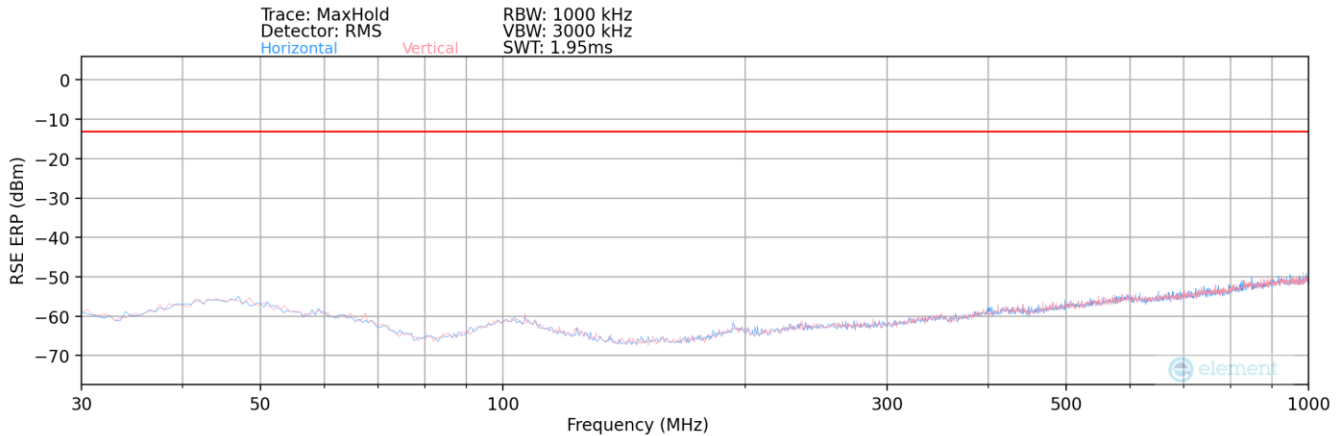
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	V	-	-	-79.79	7.31	34.52	-60.74	-13.00	-47.74
5310.00	V	-	-	-81.07	10.41	36.34	-58.92	-13.00	-45.92
7080.00	V	117	178	-77.05	14.30	44.25	-51.01	-13.00	-38.01
8850.00	V	-	-	-81.76	17.21	42.45	-52.81	-13.00	-39.81
10620.00	V	-	-	-83.11	20.37	44.26	-51.00	-13.00	-38.00
12390.00	V	-	-	-83.86	23.96	47.10	-48.16	-13.00	-35.16

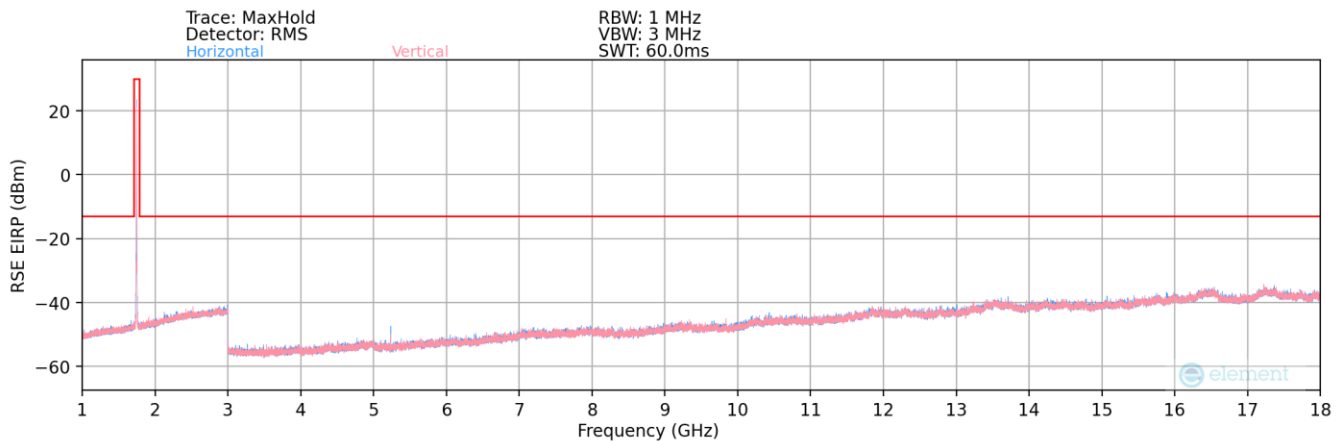
Table 7-69. Radiated Spurious Data (ULCA LTE66 – High Channel – ANT A)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 182 of 200

LTE Band 66/4 – ANT F



Plot 7-224. Radiated Spurious Plot (LTE Band 66/4 – Below 1GHz – ANT F)



Plot 7-225. Radiated Spurious Plot (LTE Band 66/4 – ANT F)

Bandwidth (MHz):	20
Frequency (MHz):	1745
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]
176.85	H	-	-	-72.16	-13.26	21.58	-75.82	-13.00	-62.82

Table 7-70. Radiated Spurious Data (LTE Band 66/4 – Below 1GHz – ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 183 of 200

Bandwidth (MHz):	20
Frequency (MHz):	1720
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]
3440.00	H	229	35	-77.46	7.00	36.54	-58.72	-13.00	-45.72
5160.00	H	172	315	-73.36	10.43	44.07	-51.18	-13.00	-38.18
6880.00	H	-	-	-79.17	13.68	41.51	-53.75	-13.00	-40.75
8600.00	H	-	-	-79.82	16.47	43.65	-51.61	-13.00	-38.61
10320.00	H	-	-	-79.24	19.21	46.97	-48.28	-13.00	-35.28

Table 7-71. Radiated Spurious Data (LTE Band 66/4 – Low Channel – ANT F)

Bandwidth (MHz):	20
Frequency (MHz):	1745
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	H	188	354	-69.35	6.95	44.60	-50.66	-13.00	-37.66
5235.00	H	217	325	-68.58	10.00	48.42	-46.84	-13.00	-33.84
6980.00	H	346	11	-69.80	13.74	50.94	-44.32	-13.00	-31.32
8725.00	H	-	-	-70.61	16.16	52.55	-42.71	-13.00	-29.71
10470.00	H	-	-	-74.58	19.35	51.77	-43.49	-13.00	-30.49
12215.00	H	-	-	-71.18	22.20	58.02	-37.24	-13.00	-24.24

Table 7-72. Radiated Spurious Data (LTE Band 66/4 – Mid Channel – ANT F)

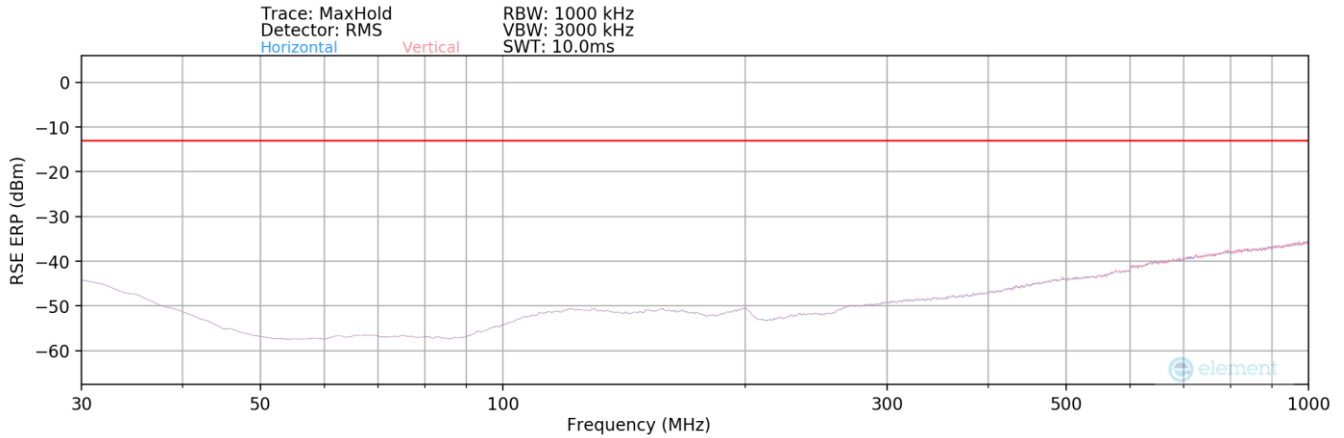
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	H	172	316	-74.81	7.00	39.19	-56.07	-13.00	-43.07
5310.00	H	177	114	-74.39	10.51	43.12	-52.13	-13.00	-39.13
7080.00	H	-	-	-78.56	14.04	42.48	-52.78	-13.00	-39.78
8850.00	H	-	-	-78.32	16.53	45.21	-50.05	-13.00	-37.05
10620.00	H	-	-	-79.24	19.81	47.57	-47.68	-13.00	-34.68

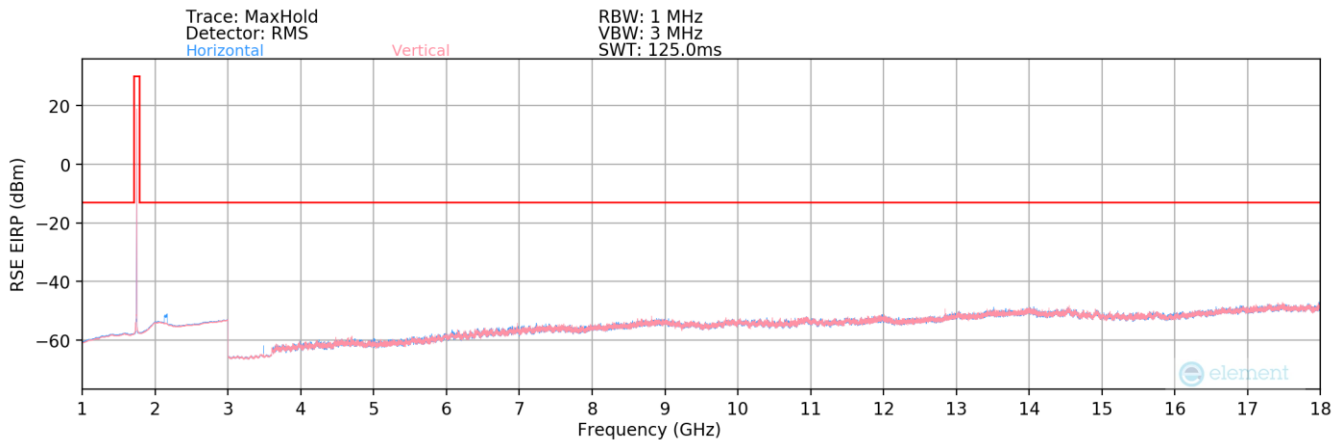
Table 7-73. Radiated Spurious Data (LTE Band 66/4 – High Channel – ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2304260060-07.A3L	Test Dates: 5/24/2023 - 7/31/2023	EUT Type: Portable Handset	Page 184 of 200

NR Band n66 – ANT F



Plot 7-226. Radiated Spurious Plot (NR Band n66 – Below 1GHz – ANT F)



Plot 7-227. Radiated Spurious Plot (NR Band n66 – ANT F)

Bandwidth (MHz):	40
Frequency (MHz):	1730
RB / Offset:	1 / 50
Mode:	SA
Anchor Band:	-

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.00	H	243	323	-71.38	0.28	35.90	-59.36	-13.00	-46.36
5190.00	H	238	64	-75.73	3.49	34.76	-60.49	-13.00	-47.49
6920.00	H	189	236	-79.92	8.36	35.44	-59.82	-13.00	-46.82
8650.00	H	-	-	-81.14	10.99	36.85	-58.41	-13.00	-45.41
10380.00	H	-	-	-81.59	11.75	37.16	-58.10	-13.00	-45.10
12110.00	H	-	-	-81.82	12.97	38.15	-57.11	-13.00	-44.11

Table 7-74. Radiated Spurious Data (NR Band n66 – Below 1GHz – ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	40
Frequency (MHz):	1730
RB / Offset:	1 / 50
Mode:	SA
Anchor Band:	-

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3460.00	H	243	323	-71.38	0.28	35.90	-59.36	-13.00	-46.36
5190.00	H	238	64	-75.73	3.49	34.76	-60.49	-13.00	-47.49
6920.00	H	189	236	-79.92	8.36	35.44	-59.82	-13.00	-46.82
8650.00	H	-	-	-81.14	10.99	36.85	-58.41	-13.00	-45.41
10380.00	H	-	-	-81.59	11.75	37.16	-58.10	-13.00	-45.10
12110.00	H	-	-	-81.82	12.97	38.15	-57.11	-13.00	-44.11

Table 7-75. Radiated Spurious Data (NR Band n66 – Low Channel – ANT F)

Bandwidth (MHz):	40
Frequency (MHz):	1745
RB / Offset:	1 / 50
Mode:	SA
Anchor Band:	-

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	H	247	330	-71.30	-0.08	35.62	-59.63	-13.00	-46.63
5235.00	H	214	67	-75.98	3.24	34.26	-61.00	-13.00	-48.00
6980.00	H	209	243	-76.23	7.55	38.32	-56.93	-13.00	-43.93
8725.00	H	-	-	-80.42	10.82	37.40	-57.86	-13.00	-44.86
10470.00	H	-	-	-81.85	12.23	37.38	-57.87	-13.00	-44.87
12215.00	H	-	-	-81.45	12.81	38.36	-56.90	-13.00	-43.90

Table 7-76. Radiated Spurious Data (NR Band n66 – Mid Channel – ANT F)

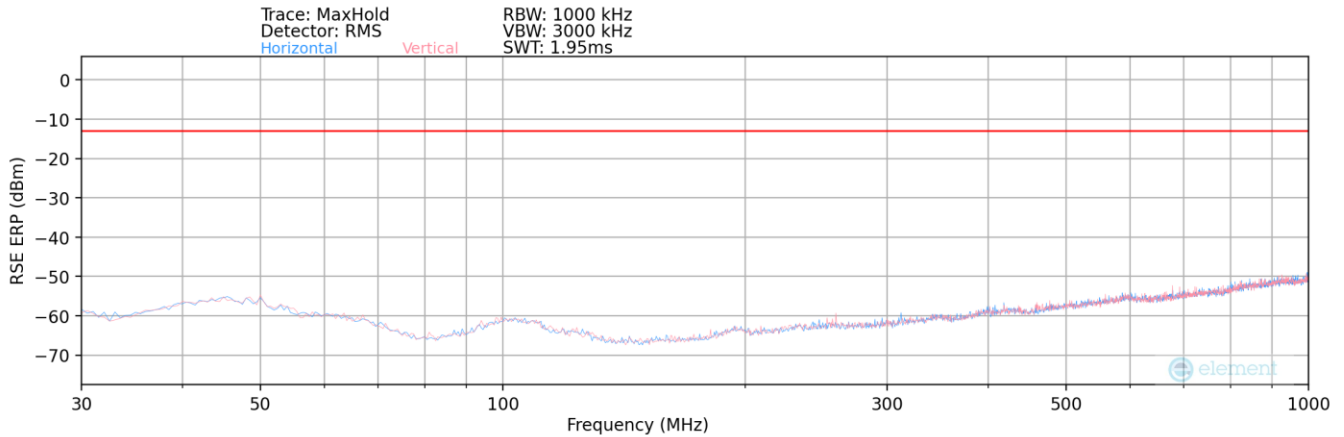
Bandwidth (MHz):	40
Frequency (MHz):	1760
RB / Offset:	1 / 50
Mode:	SA
Anchor Band:	-

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3520.00	H	258	332	-71.43	-0.16	35.41	-59.84	-13.00	-46.84
5280.00	H	219	58	-76.27	3.34	34.07	-61.19	-13.00	-48.19
7040.00	H	241	246	-77.91	7.70	36.79	-58.47	-13.00	-45.47
8800.00	H	-	-	-80.07	10.78	37.71	-57.55	-13.00	-44.55
10560.00	H	-	-	-81.99	12.23	37.24	-58.02	-13.00	-45.02
12320.00	H	-	-	-81.89	12.74	37.85	-57.41	-13.00	-44.41

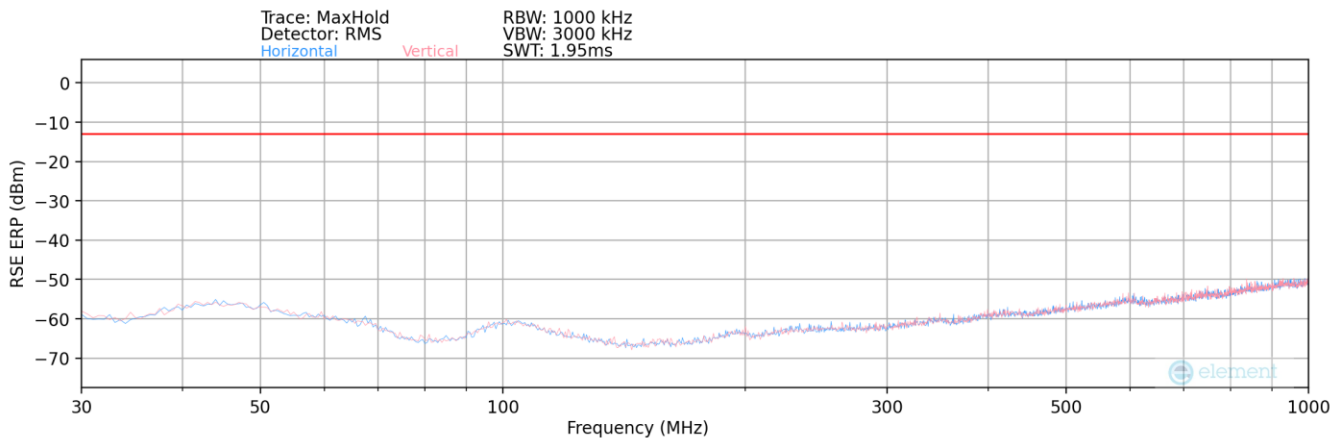
Table 7-77. Radiated Spurious Data (NR Band n66 – High Channel – ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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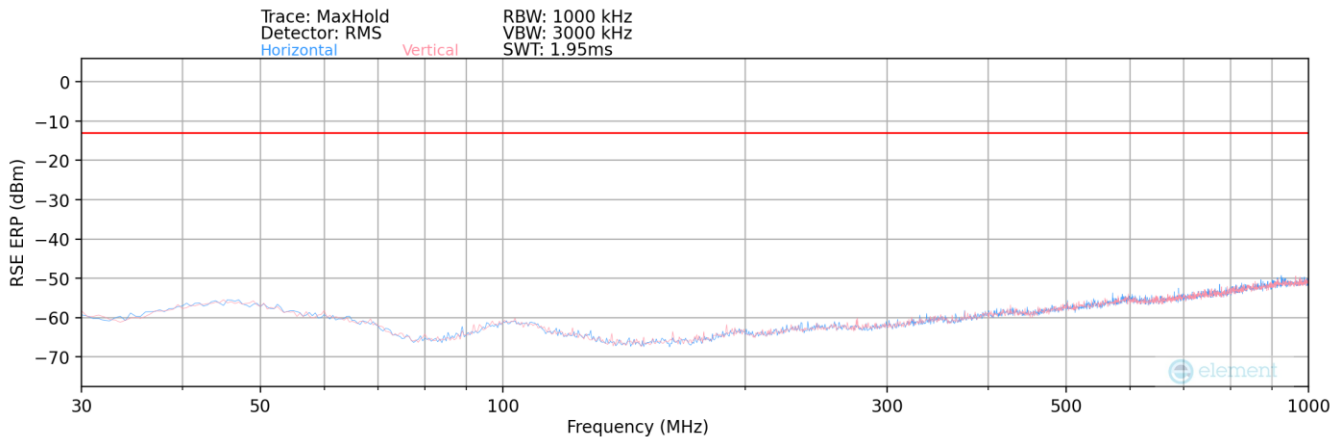
Uplink CA LTE Band 66B/C – ANT F



Plot 7-228. Radiated Spurious Plot (ULCA LTE Band 66 – Low Channel – Below 1GHz – ANT F)

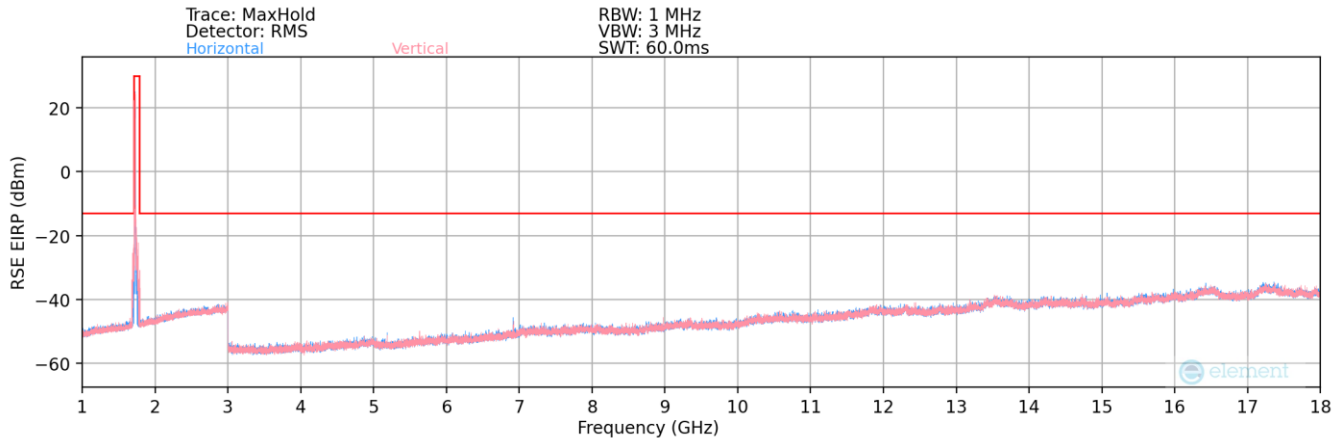


Plot 7-229. Radiated Spurious Plot (ULCA LTE Band 66 – Mid Channel – Below 1GHz – ANT F)

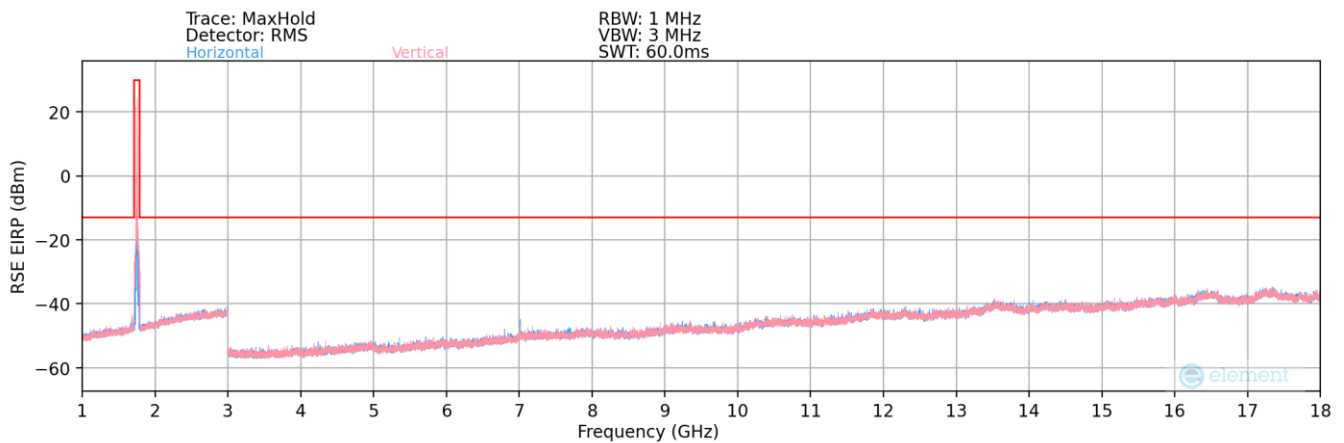


Plot 7-230. Radiated Spurious Plot (ULCA LTE Band 66 – High Channel – Below 1GHz – ANT F)

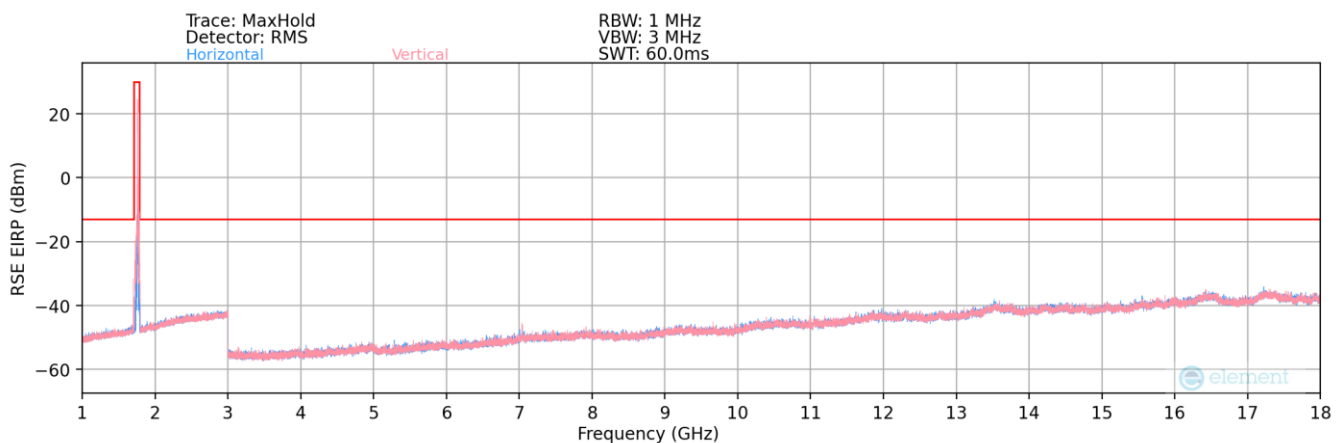
FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-231. Radiated Spurious Plot (ULCA LTE Band 66 – Low Channel – ANT F)



Plot 7-232. Radiated Spurious Plot (ULCA LTE Band 66 – Mid Channel – ANT F)



Plot 7-233. Radiated Spurious Plot (ULCA LTE Band 66 – High Channel – ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
342.51	V	-	-	-74.28	-7.11	25.61	-71.79		-71.79

7-78. Radiated Spurious Data (ULCA LTE66 – Below 1GHz – ANT F)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1720.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1739.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	V	231	355	-77.69	7.17	36.48	-58.77	-13.00	-45.77
5160.00	V	199	325	-79.99	10.26	37.27	-57.98	-13.00	-44.98
6880.00	V	112	65	-78.77	13.95	42.18	-53.07	-13.00	-40.07
8600.00	V	-	-	-83.38	17.08	40.70	-54.55	-13.00	-41.55
10320.00	V	-	-	-83.10	19.65	43.55	-51.71	-13.00	-38.71
12040.00	V	-	-	-83.75	22.86	46.11	-49.14	-13.00	-36.14

7-79. Radiated Spurious Data (ULCA LTE66 – Low Channel – ANT F)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1745.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1764.8
SCC RB / Offset:	1 / 0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	V	331	2	-78.02	7.17	36.15	-59.11	-13.00	-46.11
5235.00	V	-	-	-81.29	9.81	35.52	-59.74	-13.00	-46.74
6980.00	V	-	-	-80.90	14.01	40.11	-55.15	-13.00	-42.15
8725.00	V	-	-	-83.00	16.76	40.76	-54.49	-13.00	-41.49

Table 7-80. Radiated Spurious Data (ULCA LTE66 – Mid Channel – ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
SCC RB / Offset:	1 / 99

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	V	238	0	-78.46	7.31	35.85	-59.41	-13.00	-46.41
5310.00	V	251	339	-78.75	10.41	38.66	-56.60	-13.00	-43.60
7080.00	V	-	-	-81.97	14.30	39.33	-55.93	-13.00	-42.93
8850.00	V	-	-	-82.90	17.21	41.31	-53.95	-13.00	-40.95
10620.00	V	-	-	-83.09	20.37	44.28	-50.98	-13.00	-37.98

Table 7-81. Radiated Spurious Data (ULCA LTE66 – High Channel – ANT F)

FCC ID: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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7.9 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 27, 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: A3LSMS711U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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