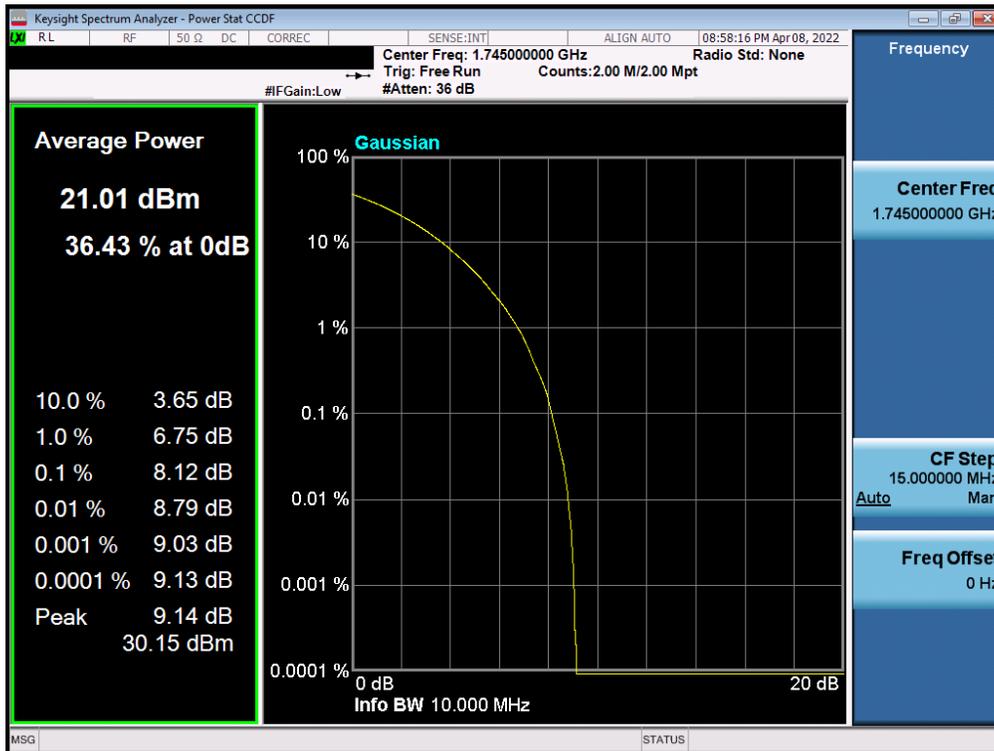
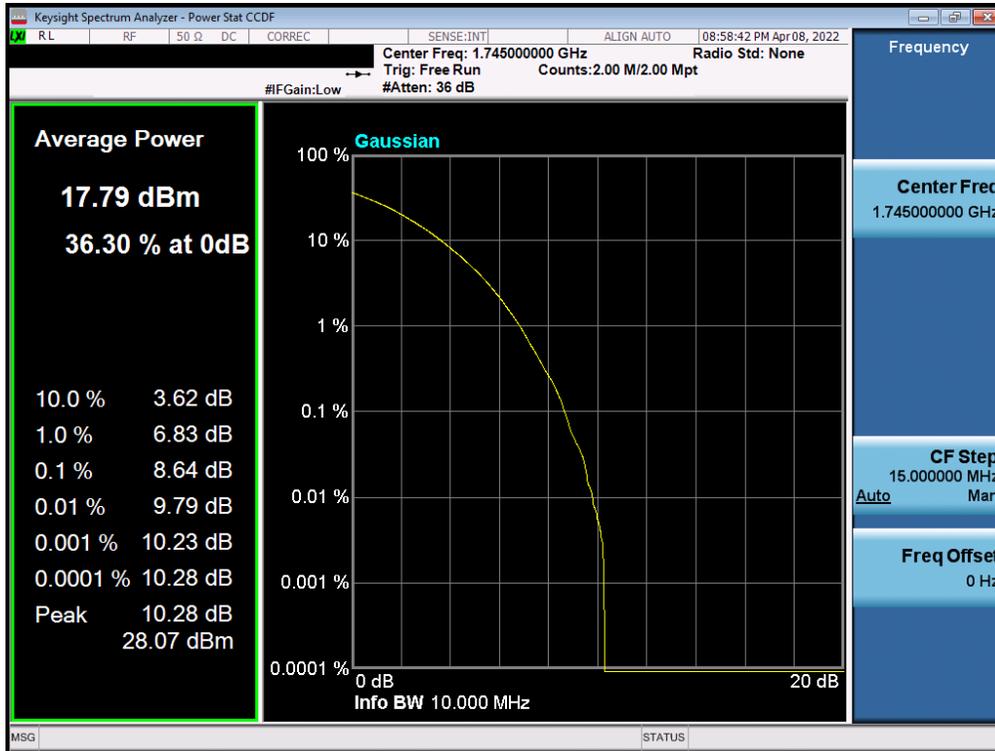


Plot 7-420. PAR Plot (NR Band n66 - 10.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)

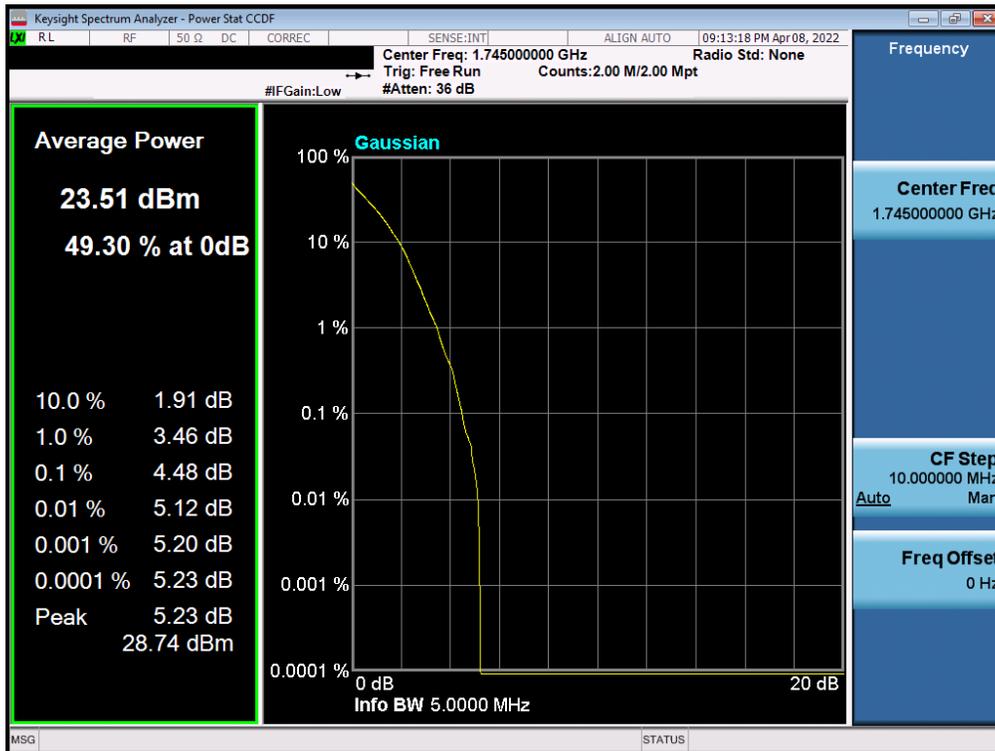


Plot 7-421. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM QPSK - Full RB - Ant F)

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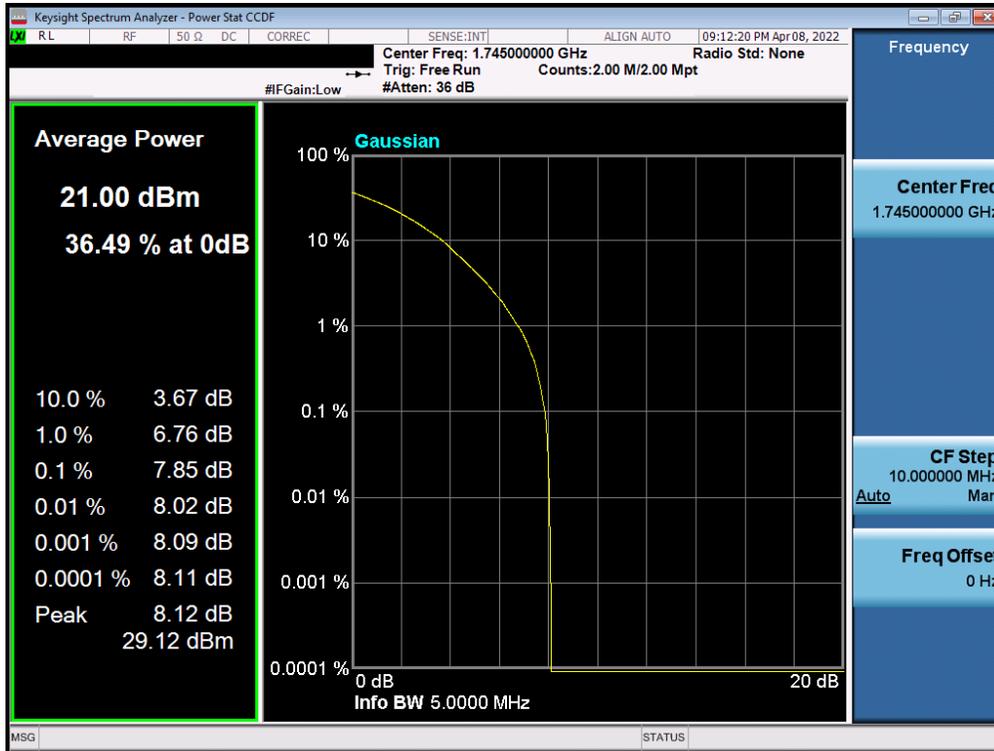


Plot 7-422. PAR Plot (NR Band n66 - 10.0MHz CP-OFDM 256-QAM - Full RB - Ant F)

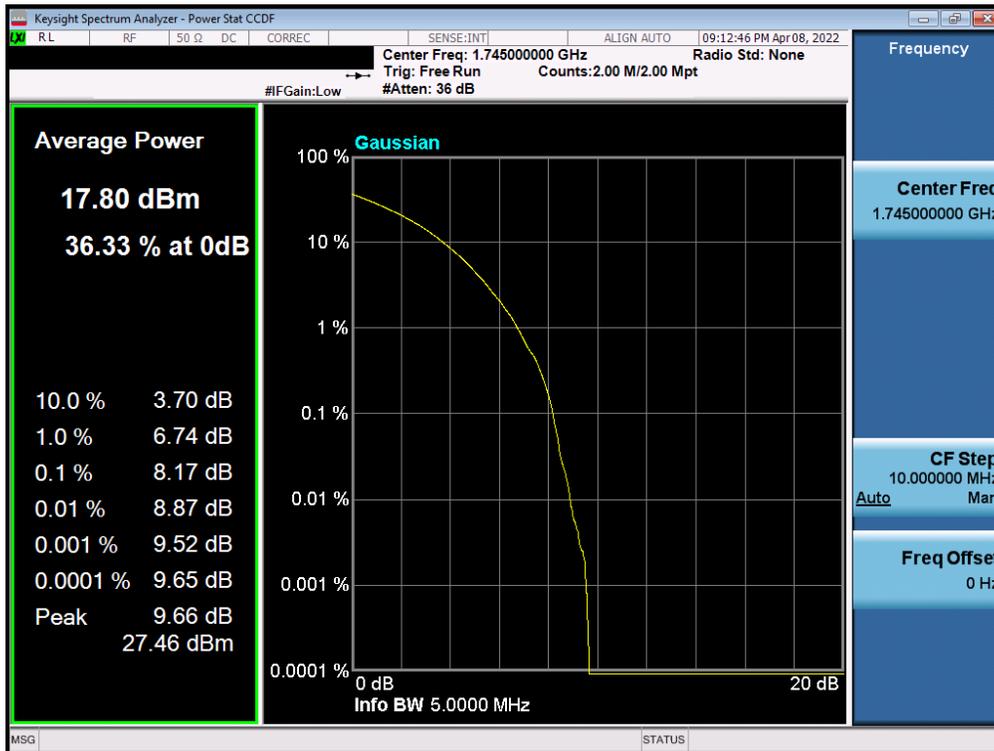


Plot 7-423. PAR Plot (NR Band n66 - 5.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-424. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM QPSK - Full RB - Ant F)



Plot 7-425. PAR Plot (NR Band n66 - 5.0MHz CP-OFDM 256-QAM - Full RB - Ant F)

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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.

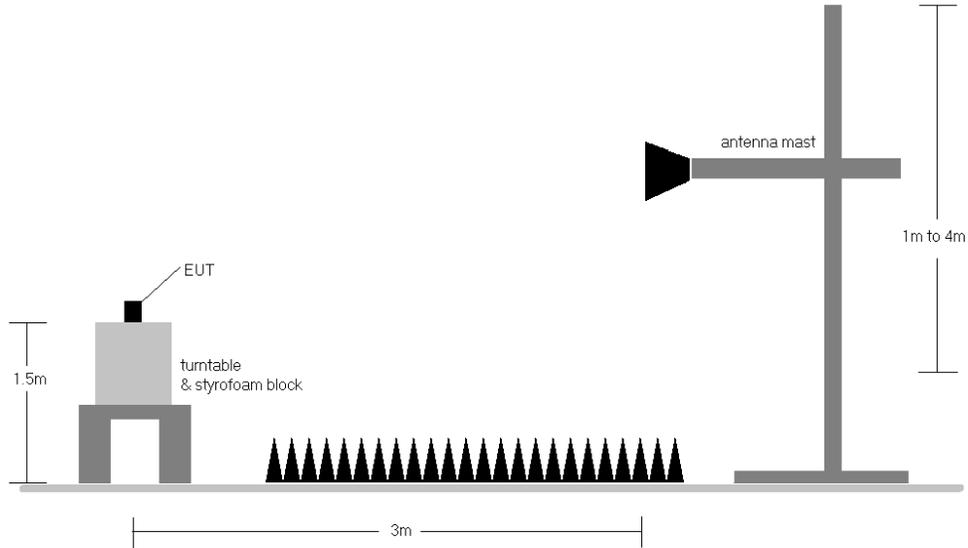


Figure 7-6. Radiated Test Setup <1GHz

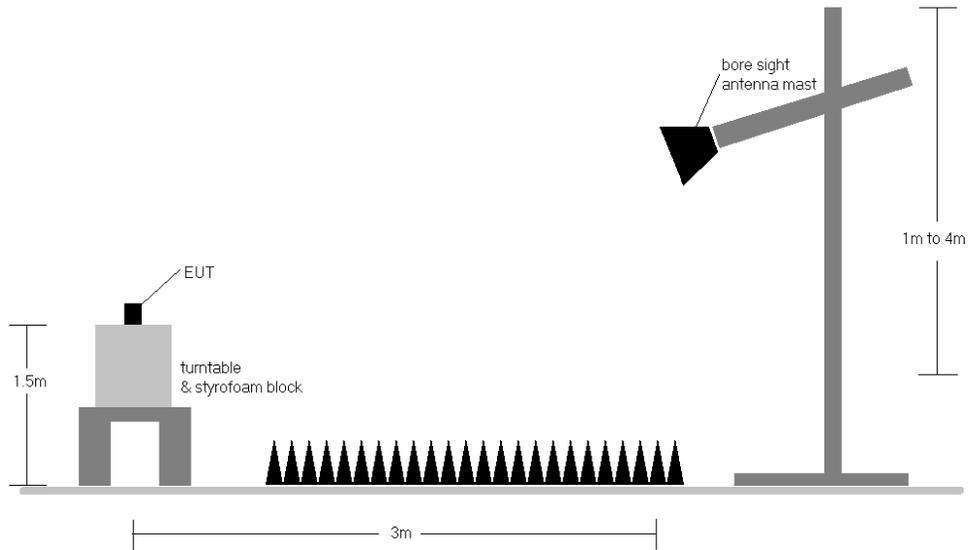


Figure 7-7. Radiated Test Setup >1GHz

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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.

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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	H	146	317	2.99	1 / 50	16.26	19.25	0.084	36.99	-17.74	17.10	0.051	34.77	-17.67
	QPSK	680.5	H	300	316	3.09	1 / 99	16.76	19.85	0.097	36.99	-17.14	17.70	0.059	34.77	-17.08
	QPSK	688.0	H	303	322	3.08	1 / 99	16.79	19.87	0.097	36.99	-17.12	17.72	0.059	34.77	-17.05
	16-QAM	680.5	H	300	316	3.09	1 / 99	16.24	19.33	0.086	36.99	-17.66	17.18	0.052	34.77	-17.60
15 MHz	QPSK	670.5	H	146	317	2.96	1 / 37	16.36	19.32	0.085	36.99	-17.67	17.17	0.052	34.77	-17.61
	QPSK	680.5	H	300	316	3.09	1 / 74	16.49	19.57	0.091	36.99	-17.42	17.42	0.055	34.77	-17.35
	QPSK	690.5	H	303	322	3.11	1 / 74	16.85	19.96	0.099	36.99	-17.03	17.81	0.060	34.77	-16.96
	16-QAM	680.5	H	300	316	3.09	1 / 0	16.25	19.33	0.086	36.99	-17.66	17.18	0.052	34.77	-17.59
10 MHz	QPSK	668.0	H	146	317	2.92	1 / 25	16.52	19.45	0.088	36.99	-17.54	17.30	0.054	34.77	-17.47
	QPSK	680.5	H	300	316	3.09	1 / 25	16.66	19.75	0.094	36.99	-17.24	17.60	0.058	34.77	-17.17
	QPSK	693.0	H	303	322	3.14	1 / 0	17.04	20.19	0.104	36.99	-16.80	18.04	0.064	34.77	-16.73
	16-QAM	693.0	H	303	322	3.14	1 / 0	16.12	19.26	0.084	36.99	-17.73	17.11	0.051	34.77	-17.66
5 MHz	QPSK	665.5	H	146	317	2.94	1 / 12	16.56	19.50	0.089	36.99	-17.49	17.35	0.054	34.77	-17.42
	QPSK	680.5	H	300	316	3.09	1 / 12	16.64	19.72	0.094	36.99	-17.27	17.57	0.057	34.77	-17.20
	QPSK	695.5	H	303	322	3.18	1 / 12	16.84	20.02	0.100	36.99	-16.97	17.87	0.061	34.77	-16.91
	16-QAM	680.5	H	300	316	3.09	1 / 12	16.71	19.80	0.095	36.99	-17.19	17.65	0.058	34.77	-17.12
20 MHz	Opposite Pol.	688.0	V	165	195	3.28	1 / 99	13.44	16.72	0.047	36.99	-20.27	14.57	0.029	34.77	-20.20
	Half	688.0	H	300	309	3.08	1 / 99	15.23	18.31	0.068	36.99	-18.68	16.16	0.041	34.77	-18.61
	WCP	688.0	H	157	301	3.08	1 / 99	14.34	17.42	0.055	36.99	-19.57	15.27	0.034	34.77	-19.50

Table 7-11. ERP Data (LTE Band 71 – Ant A + Ant B)

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	H	281	318	3.48	1 / 25	16.37	19.85	0.097	36.99	-17.14	17.70	0.059	34.77	-17.07
	QPSK	707.5	H	280	314	3.52	1 / 0	16.28	19.80	0.096	36.99	-17.19	17.65	0.058	34.77	-17.12
	QPSK	711.0	H	254	316	3.57	1 / 25	16.89	20.46	0.111	36.99	-16.53	18.31	0.068	34.77	-16.46
	16-QAM	711.0	H	254	316	3.57	1 / 25	16.05	19.62	0.092	36.99	-17.37	17.47	0.056	34.77	-17.30
5 MHz	QPSK	701.5	H	281	318	3.45	1 / 24	16.43	19.88	0.097	36.99	-17.11	17.73	0.059	34.77	-17.04
	QPSK	707.5	H	280	314	3.52	1 / 0	16.16	19.68	0.093	36.99	-17.31	17.53	0.057	34.77	-17.24
	QPSK	713.5	H	254	316	3.70	1 / 0	16.85	20.55	0.114	36.99	-16.44	18.40	0.069	34.77	-16.37
3 MHz	16-QAM	713.5	H	254	316	3.70	1 / 12	15.93	19.62	0.092	36.99	-17.37	17.47	0.056	34.77	-17.30
	QPSK	700.5	H	281	318	3.39	1 / 7	16.56	19.95	0.099	36.99	-17.04	17.80	0.060	34.77	-16.97
	QPSK	707.5	H	280	314	3.52	1 / 7	16.27	19.79	0.095	36.99	-17.20	17.64	0.058	34.77	-17.13
	QPSK	714.5	H	254	316	3.71	1 / 7	16.88	20.59	0.114	36.99	-16.40	18.44	0.070	34.77	-16.33
1.4 MHz	16-QAM	714.5	H	254	316	3.71	1 / 0	15.78	19.48	0.089	36.99	-17.51	17.33	0.054	34.77	-17.44
	QPSK	699.7	H	281	318	3.33	1 / 0	16.71	20.03	0.101	36.99	-16.96	17.88	0.061	34.77	-16.89
	QPSK	707.5	H	280	314	3.52	1 / 3	16.31	19.84	0.096	36.99	-17.15	17.69	0.059	34.77	-17.09
	QPSK	715.3	H	254	316	3.72	1 / 0	16.54	20.26	0.106	36.99	-16.73	18.11	0.065	34.77	-16.66
10 MHz	16-QAM	715.3	H	254	316	3.72	1 / 3	15.69	19.41	0.087	36.99	-17.58	17.26	0.053	34.77	-17.51
	Opposite Pol.	711.0	V	159	194	3.67	1 / 25	14.78	18.45	0.070	36.99	-18.54	16.30	0.043	34.77	-18.47
	Half	711.0	H	257	312	3.57	1 / 25	16.36	19.93	0.098	36.99	-17.06	17.78	0.060	34.77	-16.99
WCP	711.0	H	257	314	3.57	1 / 25	15.44	19.01	0.080	36.99	-17.98	16.86	0.048	34.77	-17.91	

Table 7-12. ERP Data (LTE Band 12 – Ant A + Ant B)

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	H	233	340	6.09	1 / 25	14.96	21.05	0.127	36.99	-15.94	18.90	0.078	34.77	-15.87
	16-QAM	782.0	H	233	340	6.09	1 / 25	14.12	20.21	0.105	36.99	-16.78	18.06	0.064	34.77	-16.71
5 MHz	QPSK	779.5	H	233	340	5.97	1 / 12	15.12	21.08	0.128	36.99	-15.91	18.93	0.078	34.77	-15.84
	QPSK	782.0	H	233	340	6.09	1 / 0	14.83	20.93	0.124	36.99	-16.06	18.78	0.075	34.77	-16.00
	QPSK	784.5	H	233	340	6.17	1 / 12	14.93	21.10	0.129	36.99	-15.89	18.95	0.078	34.77	-15.82
	16-QAM	784.5	H	233	340	6.17	1 / 24	14.11	20.29	0.107	36.99	-16.70	18.14	0.065	34.77	-16.64
10 MHz	Opposite Pol.	782.0	V	152	196	5.99	1 / 49	14.45	20.44	0.111	36.99	-16.55	18.29	0.068	34.77	-16.48
	WCP	782.0	H	240	314	6.09	1 / 0	14.32	20.41	0.110	36.99	-16.58	18.26	0.067	34.77	-16.51
	WCP	782.0	H	397	69	6.09	1 / 49	11.95	18.04	0.064	36.99	-18.95	15.89	0.039	34.77	-18.88

Table 7-13. ERP Data (LTE Band 13 – Ant A + Ant B)

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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	π/2 BPSK	673.0	H	124	330	2.99	1 / 79	16.32	19.31	0.085	36.99	-17.68	17.16	0.052	34.77	-17.61
	π/2 BPSK	680.5	H	131	321	3.09	1 / 53	16.74	19.83	0.096	36.99	-17.16	17.68	0.059	34.77	-17.10
	π/2 BPSK	688.0	H	144	336	3.08	1 / 53	16.06	19.14	0.082	36.99	-17.85	16.99	0.050	34.77	-17.78
	QPSK	673.0	H	124	330	2.99	1 / 79	15.99	18.98	0.079	36.99	-18.01	16.83	0.048	34.77	-17.94
	QPSK	680.5	H	131	321	3.09	1 / 53	16.84	19.93	0.098	36.99	-17.06	17.78	0.060	34.77	-17.00
	QPSK	688.0	H	144	336	3.08	1 / 53	15.99	19.07	0.081	36.99	-17.92	16.92	0.049	34.77	-17.85
15 MHz	16-QAM	680.5	H	131	321	3.09	1 / 53	15.74	18.83	0.076	36.99	-18.16	16.68	0.047	34.77	-18.10
	π/2 BPSK	670.5	H	124	330	2.96	1 / 20	16.35	19.31	0.085	36.99	-17.68	17.16	0.052	34.77	-17.61
	π/2 BPSK	680.5	H	131	321	3.09	1 / 20	16.69	19.78	0.095	36.99	-17.21	17.63	0.058	34.77	-17.14
	π/2 BPSK	690.5	H	144	336	3.11	1 / 20	15.82	18.93	0.078	36.99	-18.06	16.78	0.048	34.77	-17.99
	QPSK	670.5	H	124	330	2.96	1 / 20	16.05	19.01	0.080	36.99	-17.98	16.86	0.049	34.77	-17.91
	QPSK	680.5	H	131	321	3.09	1 / 20	16.85	19.94	0.099	36.99	-17.05	17.79	0.060	34.77	-16.98
10 MHz	QPSK	680.5	H	144	336	3.11	1 / 20	15.99	19.10	0.081	36.99	-17.89	16.95	0.050	34.77	-17.82
	QPSK	690.5	H	144	336	3.11	1 / 20	15.99	19.10	0.081	36.99	-17.89	16.95	0.050	34.77	-17.82
	16-QAM	680.5	H	131	321	3.09	1 / 20	15.59	18.67	0.074	36.99	-18.32	16.52	0.045	34.77	-18.25
	π/2 BPSK	668.0	H	124	330	2.92	1 / 26	16.15	19.07	0.081	36.99	-17.91	16.92	0.049	34.77	-17.85
	π/2 BPSK	680.5	H	131	321	3.09	1 / 13	16.71	19.79	0.095	36.99	-17.20	17.64	0.058	34.77	-17.13
	π/2 BPSK	693.0	H	144	336	3.14	1 / 26	15.69	18.83	0.076	36.99	-18.16	16.68	0.047	34.77	-18.09
5 MHz	QPSK	668.0	H	124	330	2.92	1 / 38	15.98	18.90	0.078	36.99	-18.09	16.75	0.047	34.77	-18.02
	QPSK	680.5	H	131	321	3.09	1 / 13	16.72	19.80	0.096	36.99	-17.19	17.65	0.058	34.77	-17.12
	QPSK	693.0	H	144	336	3.14	1 / 26	15.76	18.90	0.078	36.99	-18.09	16.75	0.047	34.77	-18.02
	16-QAM	680.5	H	131	321	3.09	1 / 26	15.55	18.63	0.073	36.99	-18.36	16.48	0.044	34.77	-18.29
	π/2 BPSK	665.5	H	124	330	2.94	1 / 18	16.25	19.19	0.083	36.99	-17.80	17.04	0.051	34.77	-17.73
	π/2 BPSK	680.5	H	131	321	3.09	1 / 12	16.62	19.71	0.094	36.99	-17.28	17.56	0.057	34.77	-17.21
20 MHz	π/2 BPSK	695.5	H	144	336	3.18	1 / 12	15.92	19.09	0.081	36.99	-17.90	16.94	0.049	34.77	-17.83
	QPSK	665.5	H	124	330	2.94	1 / 12	16.01	18.95	0.079	36.99	-18.04	16.80	0.048	34.77	-17.97
	QPSK	680.5	H	131	321	3.09	1 / 18	16.58	19.67	0.093	36.99	-17.32	17.52	0.056	34.77	-17.26
	QPSK	695.5	H	144	336	3.18	1 / 12	15.76	18.93	0.078	36.99	-18.06	16.78	0.048	34.77	-17.99
	16-QAM	680.5	H	131	321	3.09	1 / 18	15.39	18.48	0.070	36.99	-18.51	16.33	0.043	34.77	-18.44
	QPSK (CP-OFDM)	688.0	H	131	321	3.09	1 / 53	14.97	18.06	0.064	36.99	-18.93	15.91	0.039	34.77	-18.87
20 MHz	QPSK (CP-OFDM)	688.0	V	247	333	3.09	1 / 53	14.98	18.07	0.064	36.99	-18.92	15.92	0.039	34.77	-18.86
	QPSK (Opposite Pol.)	688.0	H	122	333	3.09	1 / 53	15.20	18.29	0.067	36.99	-18.70	16.14	0.041	34.77	-18.64
	QPSK (WCP)	688.0	H	134	147	3.09	1 / 53	14.58	17.67	0.058	36.99	-19.32	15.52	0.036	34.77	-19.26

Table 7-14. EIRP Data (NR Band n71 – Ant A + Ant B)

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	H	279	273	3.51	1 / 58	13.91	17.42	0.055	36.99	-19.57	15.27	0.034	34.77	-19.50
	π/2 BPSK	707.5	H	280	279	3.52	1 / 58	14.05	17.57	0.057	36.99	-19.42	15.42	0.035	34.77	-19.35
	π/2 BPSK	708.5	H	249	146	3.54	1 / 58	14.08	17.62	0.058	36.99	-19.37	15.47	0.035	34.77	-19.31
	QPSK	706.5	H	279	273	3.51	1 / 58	13.86	17.37	0.055	36.99	-19.62	15.22	0.033	34.77	-19.55
	QPSK	707.5	H	280	279	3.52	1 / 58	14.13	17.65	0.058	36.99	-19.34	15.50	0.036	34.77	-19.27
	QPSK	708.5	H	249	146	3.54	1 / 58	14.03	17.57	0.057	36.99	-19.42	15.42	0.035	34.77	-19.36
10 MHz	16-QAM	707.5	H	280	279	3.52	1 / 58	12.89	16.41	0.044	36.99	-20.58	14.26	0.027	34.77	-20.51
	π/2 BPSK	704.0	H	279	273	3.48	1 / 38	13.76	17.24	0.053	36.99	-19.75	15.09	0.032	34.77	-19.68
	π/2 BPSK	707.5	H	280	279	3.52	1 / 13	13.99	17.51	0.056	36.99	-19.48	15.36	0.034	34.77	-19.41
	π/2 BPSK	711.0	H	249	146	3.57	1 / 26	14.00	17.57	0.057	36.99	-19.42	15.42	0.035	34.77	-19.36
	QPSK	704.0	H	279	273	3.48	1 / 13	13.89	17.37	0.055	36.99	-19.62	15.22	0.033	34.77	-19.55
	QPSK	707.5	H	280	279	3.52	1 / 26	14.19	17.71	0.059	36.99	-19.28	15.56	0.036	34.77	-19.21
5 MHz	QPSK	711.0	H	249	146	3.57	1 / 26	13.89	17.45	0.056	36.99	-19.54	15.30	0.034	34.77	-19.47
	16-QAM	707.5	H	280	279	3.52	1 / 26	12.99	16.51	0.045	36.99	-20.48	14.36	0.027	34.77	-20.41
	π/2 BPSK	701.5	H	279	273	3.45	1 / 6	14.04	17.49	0.056	36.99	-19.50	15.34	0.034	34.77	-19.43
	π/2 BPSK	707.5	H	280	279	3.52	1 / 12	14.22	17.75	0.060	36.99	-19.24	15.60	0.036	34.77	-19.17
	π/2 BPSK	713.5	H	249	146	3.70	1 / 6	13.87	17.57	0.057	36.99	-19.42	15.42	0.035	34.77	-19.35
	QPSK	701.5	H	279	273	3.45	1 / 12	14.11	17.56	0.057	36.99	-19.43	15.41	0.035	34.77	-19.36
15 MHz	QPSK	707.5	H	280	279	3.52	1 / 12	14.44	17.97	0.063	36.99	-19.02	15.82	0.038	34.77	-18.96
	QPSK	713.5	H	249	146	3.70	1 / 6	13.99	17.68	0.059	36.99	-19.31	15.53	0.036	34.77	-19.24
	16-QAM	707.5	H	280	279	3.52	1 / 6	13.27	16.79	0.048	36.99	-20.20	14.64	0.029	34.77	-20.13
	QPSK (CP-OFDM)	707.5	H	280	279	3.52	1 / 58	13.28	16.80	0.048	36.99	-20.19	14.65	0.029	34.77	-20.12
	QPSK (Opposite Pol.)	707.5	V	274	266	3.52	1 / 58	13.99	17.51	0.056	36.99	-19.48	15.36	0.034	34.77	-19.41
15 MHz	QPSK (Opposite Pol.)	707.5	H	246	277	3.52	1 / 58	14.01	17.53	0.057	36.99	-19.46	15.38	0.035	34.77	-19.39
	QPSK (WCP)	707.5	H	276	146	3.52	1 / 58	12.96	16.48	0.045	36.99	-20.51	14.33	0.027	34.77	-20.44

Table 7-15. EIRP Data (NR Band n12 – Ant A + Ant B)

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	H	189	149	13.45	9.54	22.99	0.199	30.00	-7.01
1732.60	WCDMA1700	H	183	155	14.64	9.49	24.13	0.259	30.00	-5.87
1752.60	WCDMA1700	H	181	140	13.76	9.46	23.22	0.210	30.00	-6.78
1732.60	WCDMA1700	V	105	353	11.81	9.15	20.96	0.125	30.00	-9.04
1732.60	WCDMA1700 (Closed)	V	183	330	13.68	9.15	22.83	0.192	30.00	-7.17
1732.60	WCDMA1700 (WCP)	H	120	144	14.44	9.49	23.93	0.247	30.00	-6.07

Table 7-16. EIRP Data (WCDMA AWS – Ant A)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT			Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 246 of 312	



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	137	132	9.47	1 / 50	14.44	23.91	0.246	30.00	-6.09
	QPSK	1745.0	H	157	164	9.48	1 / 50	13.26	22.74	0.188	30.00	-7.26
	QPSK	1770.0	H	124	132	9.39	1 / 0	13.08	22.47	0.177	30.00	-7.53
	16-QAM	1720.0	H	137	132	9.47	1 / 50	13.73	23.20	0.209	30.00	-6.80
15 MHz	QPSK	1717.5	H	137	132	9.49	1 / 37	14.18	23.68	0.233	30.00	-6.32
	QPSK	1745.0	H	157	164	9.48	1 / 37	13.28	22.76	0.189	30.00	-7.24
	QPSK	1772.5	H	124	132	9.36	1 / 37	13.06	22.42	0.175	30.00	-7.58
	16-QAM	1717.5	H	137	132	9.49	1 / 37	13.54	23.03	0.201	30.00	-6.97
10 MHz	QPSK	1715.0	H	137	132	9.52	1 / 25	14.33	23.84	0.242	30.00	-6.16
	QPSK	1745.0	H	157	164	9.48	1 / 25	13.33	22.81	0.191	30.00	-7.19
	QPSK	1775.0	H	124	132	9.34	1 / 25	13.12	22.45	0.176	30.00	-7.55
	16-QAM	1715.0	H	137	132	9.52	1 / 25	13.65	23.17	0.207	30.00	-6.83
5 MHz	QPSK	1712.5	H	137	132	9.54	1 / 12	14.57	24.11	0.258	30.00	-5.89
	QPSK	1745.0	H	157	164	9.48	1 / 12	13.40	22.88	0.194	30.00	-7.12
	QPSK	1777.5	H	124	132	9.31	1 / 12	13.27	22.58	0.181	30.00	-7.42
	16-QAM	1712.5	H	137	132	9.54	1 / 12	13.88	23.43	0.220	30.00	-6.57
3 MHz	QPSK	1711.5	H	137	132	9.55	1 / 7	14.43	23.99	0.250	30.00	-6.01
	QPSK	1745.0	H	157	164	9.48	1 / 14	13.27	22.75	0.188	30.00	-7.25
	QPSK	1778.5	H	124	132	9.30	1 / 0	13.17	22.47	0.177	30.00	-7.53
	16-QAM	1711.5	H	137	132	9.55	1 / 7	13.89	23.45	0.221	30.00	-6.55
1.4 MHz	QPSK	1710.7	H	137	132	9.56	1 / 0	14.25	23.81	0.241	30.00	-6.19
	QPSK	1745.0	H	157	164	9.48	1 / 5	13.30	22.78	0.190	30.00	-7.22
	QPSK	1779.3	H	124	132	9.29	1 / 5	13.12	22.41	0.174	30.00	-7.59
	16-QAM	1710.7	H	137	132	9.56	1 / 3	13.65	23.21	0.210	30.00	-6.79
20 MHz	Opposite Pol.	1720.0	V	110	6	9.48	1 / 50	12.32	21.80	0.151	30.00	-8.20
	Folder Closed	1720.0	V	137	321	9.48	1 / 50	12.75	22.23	0.167	30.00	-7.77
	WCP	1720.0	V	108	234	9.48	1 / 50	11.93	21.41	0.138	30.00	-8.59

Table 7-17. EIRP Data (LTE Band 66/4 – Ant B)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 247 of 312

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	π/2 BPSK	1730.0	H	172	164	9.48	1 / 54	13.51	22.99	0.199	30.00	-7.01
	π/2 BPSK	1745.0	H	162	160	9.48	1 / 54	13.49	22.97	0.198	30.00	-7.03
	π/2 BPSK	1760.0	H	167	157	9.44	1 / 54	13.41	22.85	0.193	30.00	-7.15
	QPSK	1730.0	H	172	164	9.48	1 / 54	13.44	22.92	0.196	30.00	-7.08
	QPSK	1745.0	H	162	160	9.48	1 / 54	13.32	22.80	0.191	30.00	-7.20
	QPSK	1760.0	H	167	157	9.44	1 / 54	13.33	22.77	0.189	30.00	-7.23
30 MHz	16-QAM	1730.0	H	172	164	9.48	1 / 54	12.75	22.23	0.167	30.00	-7.77
	π/2 BPSK	1725.0	H	172	164	9.48	1 / 80	13.20	22.68	0.185	30.00	-7.32
	π/2 BPSK	1745.0	H	162	160	9.48	1 / 119	13.07	22.55	0.180	30.00	-7.45
	π/2 BPSK	1765.0	H	167	157	9.42	1 / 40	13.34	22.75	0.188	30.00	-7.25
	QPSK	1725.0	H	172	164	9.48	1 / 40	13.23	22.71	0.187	30.00	-7.29
	QPSK	1745.0	H	162	160	9.48	1 / 80	13.08	22.56	0.180	30.00	-7.44
20 MHz	QPSK	1765.0	H	167	157	9.42	1 / 40	13.41	22.82	0.192	30.00	-7.18
	16-QAM	1725.0	H	172	164	9.48	1 / 119	12.51	21.99	0.158	30.00	-8.01
	π/2 BPSK	1720.0	H	172	164	9.47	1 / 79	13.34	22.81	0.191	30.00	-7.19
	π/2 BPSK	1745.0	H	162	160	9.48	1 / 26	13.13	22.61	0.182	30.00	-7.39
	π/2 BPSK	1770.0	H	167	157	9.39	1 / 26	13.32	22.71	0.187	30.00	-7.29
	QPSK	1720.0	H	172	164	9.47	1 / 79	13.17	22.64	0.183	30.00	-7.36
15 MHz	QPSK	1745.0	H	162	160	9.48	1 / 79	13.03	22.51	0.178	30.00	-7.49
	QPSK	1770.0	H	167	157	9.39	1 / 53	13.37	22.76	0.189	30.00	-7.24
	16-QAM	1720.0	H	172	164	9.47	1 / 53	12.58	22.05	0.160	30.00	-7.95
	π/2 BPSK	1717.5	H	172	164	9.49	1 / 20	13.30	22.80	0.190	30.00	-7.20
	π/2 BPSK	1745.0	H	162	160	9.48	1 / 20	13.30	22.78	0.190	30.00	-7.22
	π/2 BPSK	1772.5	H	167	157	9.36	1 / 20	13.40	22.76	0.189	30.00	-7.24
10 MHz	QPSK	1717.5	H	172	164	9.49	1 / 58	13.37	22.86	0.193	30.00	-7.14
	QPSK	1745.0	H	162	160	9.48	1 / 20	13.20	22.68	0.185	30.00	-7.32
	QPSK	1772.5	H	167	157	9.36	1 / 58	13.35	22.71	0.187	30.00	-7.29
	16-QAM	1717.5	H	172	164	9.49	1 / 58	12.53	22.03	0.159	30.00	-7.97
	π/2 BPSK	1715.0	H	172	164	9.52	1 / 13	12.93	22.45	0.176	30.00	-7.55
	π/2 BPSK	1745.0	H	162	160	9.48	1 / 38	12.94	22.42	0.175	30.00	-7.58
5 MHz	π/2 BPSK	1775.0	H	167	157	9.34	1 / 13	13.11	22.45	0.176	30.00	-7.55
	QPSK	1715.0	H	172	164	9.52	1 / 13	12.90	22.42	0.175	30.00	-7.58
	QPSK	1745.0	H	162	160	9.48	1 / 26	13.01	22.49	0.177	30.00	-7.51
	QPSK	1775.0	H	167	157	9.34	1 / 26	13.13	22.46	0.176	30.00	-7.54
	16-QAM	1715.0	H	172	164	9.52	1 / 38	12.39	21.90	0.155	30.00	-8.10
	40 MHz	π/2 BPSK	1712.5	H	172	164	9.54	1 / 12	13.09	22.63	0.183	30.00
π/2 BPSK		1745.0	H	162	160	9.48	1 / 12	13.07	22.55	0.180	30.00	-7.45
π/2 BPSK		1777.5	H	167	157	9.31	1 / 12	13.17	22.49	0.177	30.00	-7.51
QPSK		1712.5	H	172	164	9.54	1 / 18	13.09	22.63	0.183	30.00	-7.37
QPSK		1745.0	H	162	160	9.48	1 / 6	13.05	22.53	0.179	30.00	-7.47
QPSK		1777.5	H	167	157	9.31	1 / 6	13.21	22.52	0.179	30.00	-7.48
40 MHz	16-QAM	1712.5	H	172	164	9.54	1 / 18	12.60	22.15	0.164	30.00	-7.85
	QPSK (CP-OFDM)	1730.0	H	172	164	9.48	1 / 54	11.25	20.73	0.118	30.00	-9.27
	Folder Closed	1730.0	V	103	240	9.48	1 / 54	12.40	21.88	0.154	30.00	-8.12
	QPSK (Opposite Pol.)	1730.0	V	102	233	9.48	1 / 54	12.75	22.23	0.167	30.00	-7.77
40 MHz	QPSK (WCP)	1730.0	V	102	225	9.48	1 / 54	11.16	20.64	0.116	30.00	-9.36

Table 7-18. EIRP Data (NR Band n66 – Ant B)

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	H	133	320	2.99	1 / 99	15.10	18.09	0.064	36.99	-18.90	15.94	0.039	34.77	-18.83
	QPSK	680.5	H	135	317	3.09	1 / 99	15.28	18.37	0.069	36.99	-18.62	16.22	0.042	34.77	-18.56
	QPSK	688.0	H	146	320	3.08	1 / 99	15.68	18.76	0.075	36.99	-18.23	16.61	0.046	34.77	-18.16
	16-QAM	688.0	H	146	320	3.08	1 / 99	15.23	18.31	0.068	36.99	-18.68	16.16	0.041	34.77	-18.61
15 MHz	QPSK	670.5	H	133	320	2.96	1 / 50	15.06	18.02	0.063	36.99	-18.97	15.87	0.039	34.77	-18.91
	QPSK	680.5	H	135	317	3.09	1 / 50	15.19	18.27	0.067	36.99	-18.72	16.12	0.041	34.77	-18.65
	QPSK	690.5	H	146	320	3.11	1 / 0	15.72	18.84	0.076	36.99	-18.15	16.69	0.047	34.77	-18.09
	16-QAM	690.5	H	146	320	3.11	1 / 0	15.19	18.30	0.068	36.99	-18.69	16.15	0.041	34.77	-18.62
10 MHz	QPSK	668.0	H	133	320	2.92	1 / 50	15.22	18.15	0.065	36.99	-18.84	16.00	0.040	34.77	-18.77
	QPSK	680.5	H	135	317	3.09	1 / 50	15.32	18.40	0.069	36.99	-18.59	16.25	0.042	34.77	-18.52
	QPSK	693.0	H	146	320	3.14	1 / 50	15.60	18.74	0.075	36.99	-18.25	16.59	0.046	34.77	-18.18
	16-QAM	693.0	H	146	320	3.14	1 / 50	15.12	18.27	0.067	36.99	-18.72	16.12	0.041	34.77	-18.66
5 MHz	QPSK	665.5	H	133	320	2.94	1 / 50	15.17	18.11	0.065	36.99	-18.88	15.96	0.039	34.77	-18.81
	QPSK	680.5	H	135	317	3.09	1 / 50	15.32	18.40	0.069	36.99	-18.59	16.25	0.042	34.77	-18.52
	QPSK	695.5	H	146	320	3.18	1 / 0	15.83	19.00	0.079	36.99	-17.99	16.85	0.048	34.77	-17.92
	16-QAM	695.5	H	146	320	3.18	1 / 50	15.18	18.35	0.068	36.99	-18.64	16.20	0.042	34.77	-18.57
20 MHz	Opposite Pol.	688.0	V	172	359	3.28	1 / 0	14.76	18.04	0.064	36.99	-18.95	15.89	0.039	34.77	-18.88
	Half	688.0	H	144	317	3.08	1 / 0	13.54	16.62	0.046	36.99	-20.37	14.47	0.028	34.77	-20.30
	WCP	688.0	H	201	310	3.08	1 / 0	11.64	14.72	0.030	36.99	-22.27	12.57	0.018	34.77	-22.20

Table 7-19. ERP Data (LTE Band 71 – Ant B)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 248 of 312



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	H	150	328	3.48	1 / 0	13.53	17.01	0.050	36.99	-19.98	14.86	0.031	34.77	-19.91
	QPSK	707.5	H	133	343	3.52	1 / 49	13.51	17.03	0.051	36.99	-19.96	14.88	0.031	34.77	-19.89
	QPSK	711.0	H	128	344	3.57	1 / 49	13.92	17.49	0.056	36.99	-19.50	15.34	0.034	34.77	-19.43
	16-QAM	711.0	H	128	344	3.57	1 / 49	13.16	16.73	0.047	36.99	-20.26	14.58	0.029	34.77	-20.19
5 MHz	QPSK	701.5	H	150	328	3.45	1 / 24	13.59	17.04	0.051	36.99	-19.95	14.89	0.031	34.77	-19.88
	QPSK	707.5	H	133	343	3.52	1 / 0	13.39	16.91	0.049	36.99	-20.08	14.76	0.030	34.77	-20.01
	QPSK	713.5	H	128	344	3.70	1 / 0	13.88	17.58	0.057	36.99	-19.41	15.43	0.035	34.77	-19.34
	16-QAM	713.5	H	128	344	3.70	1 / 12	13.04	16.73	0.047	36.99	-20.26	14.58	0.029	34.77	-20.19
3 MHz	QPSK	700.5	H	150	328	3.39	1 / 7	13.72	17.11	0.051	36.99	-19.88	14.96	0.031	34.77	-19.81
	QPSK	707.5	H	133	343	3.52	1 / 7	13.50	17.02	0.050	36.99	-19.97	14.87	0.031	34.77	-19.90
	QPSK	714.5	H	128	344	3.71	1 / 7	13.91	17.62	0.058	36.99	-19.37	15.47	0.035	34.77	-19.30
	16-QAM	714.5	H	128	344	3.71	1 / 0	12.89	16.59	0.046	36.99	-20.40	14.44	0.028	34.77	-20.33
1.4 MHz	QPSK	699.7	H	150	328	3.33	1 / 0	13.87	17.19	0.052	36.99	-19.80	15.04	0.032	34.77	-19.73
	QPSK	707.5	H	133	343	3.52	1 / 3	13.54	17.07	0.051	36.99	-19.92	14.92	0.031	34.77	-19.86
	QPSK	715.3	H	128	344	3.72	1 / 0	13.57	17.29	0.054	36.99	-19.70	15.14	0.033	34.77	-19.63
	16-QAM	715.3	H	128	344	3.72	1 / 3	12.80	16.52	0.045	36.99	-20.47	14.37	0.027	34.77	-20.40
10 MHz	Opposite Pol.	711.0	V	147	170	3.67	1 / 49	11.57	15.24	0.033	36.99	-21.75	13.09	0.020	34.77	-21.68
	Half	711.0	H	286	314	3.57	1 / 49	13.34	16.91	0.049	36.99	-20.08	14.76	0.030	34.77	-20.01
	WCP	711.0	H	201	299	3.57	1 / 49	10.49	14.06	0.025	36.99	-22.93	11.91	0.016	34.77	-22.86

Table 7-20. ERP Data (LTE Band 12 – Ant B)

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	H	241	329	6.09	1 / 49	15.56	21.65	0.146	36.99	-15.34	19.50	0.089	34.77	-15.27
	16-QAM	782.0	H	241	329	6.09	1 / 49	14.80	20.89	0.123	36.99	-16.10	18.74	0.075	34.77	-16.03
5 MHz	QPSK	779.5	H	241	329	5.97	1 / 12	15.72	21.68	0.147	36.99	-15.31	19.53	0.090	34.77	-15.24
	QPSK	782.0	H	241	329	6.09	1 / 0	15.43	21.53	0.142	36.99	-15.46	19.38	0.087	34.77	-15.40
	QPSK	784.5	H	241	329	6.17	1 / 12	15.53	21.70	0.148	36.99	-15.29	19.55	0.090	34.77	-15.22
	16-QAM	784.5	H	241	329	6.17	1 / 24	14.79	20.97	0.125	36.99	-16.02	18.82	0.076	34.77	-15.96
10 MHz	Opposite Pol.	782.0	V	146	57	5.99	1 / 49	13.42	19.41	0.087	36.99	-17.58	17.26	0.053	34.77	-17.51
	Half	782.0	H	240	331	6.09	1 / 49	13.45	19.54	0.090	36.99	-17.45	17.39	0.055	34.77	-17.38
	WCP	782.0	H	300	2	6.09	1 / 49	11.50	17.59	0.057	36.99	-19.40	15.44	0.035	34.77	-19.33

Table 7-21. ERP Data (LTE Band 13 – Ant B)

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	H	134	305	2.99	1 / 79	12.71	15.70	0.037	36.99	-21.29	13.55	0.023	34.77	-21.22
	π/2 BPSK	680.5	H	144	301	3.09	1 / 79	12.95	16.04	0.040	36.99	-20.95	13.89	0.024	34.77	-20.89
	π/2 BPSK	688.0	H	140	304	3.08	1 / 53	13.08	16.16	0.041	36.99	-20.83	14.01	0.025	34.77	-20.76
	QPSK	673.0	H	134	305	2.99	1 / 79	12.75	15.74	0.037	36.99	-21.25	13.59	0.023	34.77	-21.18
	QPSK	680.5	H	144	301	3.09	1 / 79	12.87	15.96	0.039	36.99	-21.03	13.81	0.024	34.77	-20.97
	QPSK	688.0	H	140	304	3.08	1 / 53	13.48	16.56	0.045	36.99	-20.43	14.41	0.028	34.77	-20.36
15 MHz	16-QAM	688.0	H	140	304	3.08	1 / 79	12.07	15.15	0.033	36.99	-21.84	13.00	0.020	34.77	-21.77
	π/2 BPSK	670.5	H	134	305	2.96	1 / 20	12.74	15.70	0.037	36.99	-21.29	13.55	0.023	34.77	-21.22
	π/2 BPSK	680.5	H	144	301	3.09	1 / 20	12.90	15.99	0.040	36.99	-21.00	13.84	0.024	34.77	-20.93
	π/2 BPSK	690.5	H	140	304	3.11	1 / 20	12.84	15.95	0.039	36.99	-21.04	13.80	0.024	34.77	-20.97
	QPSK	670.5	H	134	305	2.96	1 / 20	12.81	15.77	0.038	36.99	-21.22	13.62	0.023	34.77	-21.15
	QPSK	680.5	H	144	301	3.09	1 / 20	12.88	15.97	0.040	36.99	-21.02	13.82	0.024	34.77	-20.95
10 MHz	QPSK	690.5	H	140	304	3.11	1 / 20	13.48	16.59	0.046	36.99	-20.40	14.44	0.028	34.77	-20.33
	16-QAM	690.5	H	140	304	3.11	1 / 39	12.89	15.81	0.038	36.99	-21.18	13.66	0.023	34.77	-21.11
	π/2 BPSK	668.0	H	134	305	2.92	1 / 26	12.54	15.46	0.035	36.99	-21.52	13.31	0.021	34.77	-21.46
	π/2 BPSK	680.5	H	144	301	3.09	1 / 13	12.92	16.00	0.040	36.99	-20.99	13.85	0.024	34.77	-20.92
	π/2 BPSK	693.0	H	140	304	3.14	1 / 26	12.71	15.85	0.038	36.99	-21.14	13.70	0.023	34.77	-21.07
	QPSK	668.0	H	134	305	2.92	1 / 38	12.74	15.66	0.037	36.99	-21.33	13.51	0.022	34.77	-21.26
5 MHz	QPSK	680.5	H	144	301	3.09	1 / 13	12.75	15.83	0.038	36.99	-21.16	13.68	0.023	34.77	-21.09
	QPSK	693.0	H	140	304	3.14	1 / 26	13.25	16.39	0.044	36.99	-20.60	14.24	0.027	34.77	-20.53
	16-QAM	693.0	H	140	304	3.14	1 / 13	11.97	15.12	0.032	36.99	-21.87	12.97	0.020	34.77	-21.81
	π/2 BPSK	665.5	H	134	305	2.94	1 / 18	12.64	15.58	0.036	36.99	-21.41	13.43	0.022	34.77	-21.34
	π/2 BPSK	680.5	H	144	301	3.09	1 / 12	12.83	15.92	0.039	36.99	-21.07	13.77	0.024	34.77	-21.00
	π/2 BPSK	695.5	H	140	304	3.18	1 / 12	12.89	16.06	0.040	36.99	-20.93	13.91	0.025	34.77	-20.86
20 MHz	QPSK	665.5	H	134	305	2.94	1 / 12	12.77	15.71	0.037	36.99	-21.28	13.56	0.023	34.77	-21.21
	QPSK	680.5	H	144	301	3.09	1 / 18	12.61	15.70	0.037	36.99	-21.29	13.55	0.023	34.77	-21.23
	QPSK	695.5	H	140	304	3.18	1 / 12	13.33	16.50	0.045	36.99	-20.49	14.35	0.027	34.77	-20.42
20 MHz	16-QAM	695.5	H	140	304	3.18	1 / 12	11.97	15.10	0.032	36.99	-21.89	12.95	0.020	34.77	-21.82
	QPSK (CP-OFDM)	688.0	H	140	304	3.08	1 / 53	11.80	14.88	0.031	36.99	-22.11	12.73	0.019	34.77	-22.04
20 MHz	QPSK (Opposite Pol.)	688.0	V	155	298	3.28	1 / 79	13.26	16.54	0.045	36.99	-20.45	14.39	0.027	34.77	-20.38
	QPSK (WCP)	688.0	H	103	298	3.08	1 / 79	11.25	14.33	0.027	36.99	-22.66	12.18	0.017	34.77	-22.59

Table 7-22. EIRP Data (NR Band n71 – Ant B)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 249 of 312



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	H	124	308	3.51	1 / 39	11.51	15.02	0.032	36.99	-21.97	12.87	0.019	34.77	-21.90
	π/2 BPSK	707.5	H	125	301	3.52	1 / 39	11.29	14.81	0.030	36.99	-22.18	12.66	0.018	34.77	-22.11
	π/2 BPSK	708.5	H	132	302	3.54	1 / 58	11.43	14.97	0.031	36.99	-22.02	12.82	0.019	34.77	-21.96
	QPSK	706.5	H	124	308	3.51	1 / 39	11.80	15.11	0.032	36.99	-21.88	12.96	0.020	34.77	-21.81
	QPSK	707.5	H	125	301	3.52	1 / 58	11.06	14.58	0.029	36.99	-22.41	12.43	0.018	34.77	-22.34
	QPSK	708.5	H	132	302	3.54	1 / 58	11.34	14.88	0.031	36.99	-22.11	12.73	0.019	34.77	-22.05
10 MHz	16-QAM	706.5	H	124	308	3.51	1 / 20	10.52	14.03	0.025	36.99	-22.96	11.88	0.015	34.77	-22.89
	π/2 BPSK	704.0	H	124	308	3.48	1 / 38	11.36	14.84	0.030	36.99	-22.15	12.69	0.019	34.77	-22.08
	π/2 BPSK	707.5	H	125	301	3.52	1 / 13	11.23	14.75	0.030	36.99	-22.24	12.60	0.018	34.77	-22.17
	π/2 BPSK	711.0	H	132	302	3.57	1 / 26	11.35	14.92	0.031	36.99	-22.07	12.77	0.019	34.77	-22.01
	QPSK	704.0	H	124	308	3.48	1 / 13	11.63	15.11	0.032	36.99	-21.88	12.96	0.020	34.77	-21.81
	QPSK	707.5	H	125	301	3.52	1 / 26	11.12	14.64	0.029	36.99	-22.35	12.49	0.018	34.77	-22.28
5 MHz	QPSK	711.0	H	132	302	3.57	1 / 26	11.20	14.76	0.030	36.99	-22.23	12.61	0.018	34.77	-22.16
	16-QAM	707.5	H	125	301	3.52	1 / 26	10.47	13.99	0.025	36.99	-23.00	11.84	0.015	34.77	-22.93
	π/2 BPSK	701.5	H	124	308	3.45	1 / 6	11.64	15.09	0.032	36.99	-21.90	12.94	0.020	34.77	-21.83
	π/2 BPSK	707.5	H	125	301	3.52	1 / 12	11.46	14.99	0.032	36.99	-22.00	12.84	0.019	34.77	-21.93
	π/2 BPSK	713.5	H	132	302	3.70	1 / 6	11.22	14.92	0.031	36.99	-22.07	12.77	0.019	34.77	-22.00
	QPSK	701.5	H	124	308	3.45	1 / 12	11.85	15.30	0.034	36.99	-21.69	13.15	0.021	34.77	-21.62
15 MHz	QPSK	707.5	H	125	301	3.52	1 / 12	11.37	14.90	0.031	36.99	-22.09	12.75	0.019	34.77	-22.03
	QPSK	713.5	H	132	302	3.70	1 / 6	11.30	14.99	0.032	36.99	-22.00	12.84	0.019	34.77	-21.93
	16-QAM	707.5	H	125	301	3.52	1 / 6	10.75	14.27	0.027	36.99	-22.72	12.12	0.016	34.77	-22.65
15 MHz	QPSK (CP-OFDM)	706.5	H	124	308	3.51	1 / 58	9.86	13.37	0.022	36.99	-23.62	11.22	0.013	34.77	-23.55
	QPSK (Opposite Pol.)	706.5	V	158	319	3.61	1 / 20	10.99	14.60	0.029	36.99	-22.39	12.45	0.018	34.77	-22.32
	QPSK (WCP)	706.5	H	116	303	3.51	1 / 58	9.95	13.46	0.022	36.99	-23.53	11.31	0.014	34.77	-23.46

Table 7-23. EIRP Data (NR Band n12 – Ant B)

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	214	35	9.47	1 / 50	14.11	23.58	0.228	30.00	-6.42
	QPSK	1745.0	H	222	41	9.48	1 / 99	15.12	24.60	0.288	30.00	-5.40
	QPSK	1770.0	H	209	41	9.39	1 / 0	13.78	23.17	0.207	30.00	-6.83
	16-QAM	1745.0	H	222	41	9.48	1 / 99	14.21	23.69	0.234	30.00	-6.31
15 MHz	QPSK	1717.5	H	214	35	9.49	1 / 37	14.01	23.51	0.224	30.00	-6.49
	QPSK	1745.0	H	222	41	9.48	1 / 37	15.03	24.51	0.282	30.00	-5.49
	QPSK	1772.5	H	209	41	9.36	1 / 0	13.88	23.24	0.211	30.00	-6.76
10 MHz	16-QAM	1745.0	H	222	41	9.48	1 / 37	14.18	23.66	0.232	30.00	-6.34
	QPSK	1715.0	H	214	35	9.52	1 / 25	14.12	23.64	0.231	30.00	-6.36
	QPSK	1745.0	H	222	41	9.48	1 / 25	15.16	24.64	0.291	30.00	-5.36
5 MHz	QPSK	1775.0	H	209	41	9.34	1 / 25	13.81	23.15	0.207	30.00	-6.85
	16-QAM	1745.0	H	222	41	9.48	1 / 25	14.15	23.63	0.231	30.00	-6.37
	QPSK	1712.5	H	214	35	9.54	1 / 12	14.06	23.60	0.229	30.00	-6.40
3 MHz	QPSK	1745.0	H	222	41	9.48	1 / 12	15.16	24.64	0.291	30.00	-5.36
	QPSK	1777.5	H	209	41	9.31	1 / 0	14.10	23.41	0.219	30.00	-6.59
	16-QAM	1745.0	H	222	41	9.48	1 / 12	14.24	23.72	0.236	30.00	-6.28
1.4 MHz	QPSK	1711.5	H	214	35	9.55	1 / 7	14.08	23.63	0.231	30.00	-6.37
	QPSK	1745.0	H	222	41	9.48	1 / 7	15.13	24.61	0.289	30.00	-5.39
	QPSK	1778.5	H	209	41	9.30	1 / 14	13.96	23.26	0.212	30.00	-6.74
20 MHz	16-QAM	1745.0	H	222	41	9.48	1 / 0	14.44	23.92	0.247	30.00	-6.08
	QPSK	1710.7	H	214	35	9.56	1 / 0	14.06	23.62	0.230	30.00	-6.38
	QPSK	1745.0	H	222	41	9.48	1 / 0	15.13	24.61	0.289	30.00	-5.39
20 MHz	QPSK	1779.3	H	209	41	9.29	1 / 3	14.04	23.34	0.216	30.00	-6.66
	16-QAM	1745.0	H	222	41	9.48	1 / 0	14.52	24.00	0.251	30.00	-6.00
	Opposite Pol.	1745.0	V	104	31	9.03	1 / 50	12.40	21.43	0.139	30.00	-8.57
20 MHz	Folder Closed	1745.0	H	239	339	9.48	1 / 50	11.36	20.84	0.121	30.00	-9.16
	WCP	1745.0	H	126	37	9.48	1 / 50	14.81	24.29	0.269	30.00	-5.71

Table 7-24. EIRP Data (LTE Band 66/4 – Ant F)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 250 of 312

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	H	135	32	9.48	1 / 54	14.27	23.75	0.237	30.00	-6.25
	$\pi/2$ BPSK	1745.0	H	129	33	9.48	1 / 161	13.62	23.10	0.204	30.00	-6.90
	$\pi/2$ BPSK	1760.0	H	128	34	9.44	1 / 161	13.58	23.02	0.201	30.00	-6.98
	QPSK	1730.0	H	135	32	9.48	1 / 54	14.13	23.61	0.230	30.00	-6.39
	QPSK	1745.0	H	129	33	9.48	1 / 54	13.56	23.04	0.201	30.00	-6.96
	QPSK	1760.0	H	128	34	9.44	1 / 108	13.52	22.96	0.198	30.00	-7.04
	16-QAM	1730.0	H	135	32	9.48	1 / 54	12.70	22.18	0.165	30.00	-7.82
30 MHz	$\pi/2$ BPSK	1725.0	H	135	32	9.48	1 / 119	14.38	23.85	0.243	30.00	-6.15
	$\pi/2$ BPSK	1745.0	H	129	33	9.48	1 / 40	13.50	22.98	0.198	30.00	-7.02
	$\pi/2$ BPSK	1765.0	H	128	34	9.42	1 / 119	13.43	22.85	0.193	30.00	-7.15
	QPSK	1725.0	H	135	32	9.48	1 / 119	14.19	23.66	0.232	30.00	-6.34
	QPSK	1745.0	H	129	33	9.48	1 / 80	13.70	23.18	0.208	30.00	-6.82
	QPSK	1765.0	H	128	34	9.42	1 / 119	13.62	23.03	0.201	30.00	-6.97
	16-QAM	1725.0	H	135	32	9.48	1 / 40	12.67	22.14	0.164	30.00	-7.86
20 MHz	$\pi/2$ BPSK	1720.0	H	135	32	9.47	1 / 79	14.29	23.76	0.237	30.00	-6.24
	$\pi/2$ BPSK	1745.0	H	129	33	9.48	1 / 79	13.64	23.12	0.205	30.00	-6.88
	$\pi/2$ BPSK	1770.0	H	128	34	9.39	1 / 26	13.56	22.94	0.197	30.00	-7.06
	QPSK	1720.0	H	135	32	9.47	1 / 79	14.21	23.68	0.233	30.00	-6.32
	QPSK	1745.0	H	129	33	9.48	1 / 26	13.62	23.10	0.204	30.00	-6.90
	QPSK	1770.0	H	128	34	9.39	1 / 26	13.69	23.07	0.203	30.00	-6.93
	16-QAM	1720.0	H	135	32	9.47	1 / 79	12.48	21.95	0.157	30.00	-8.05
15 MHz	$\pi/2$ BPSK	1717.5	H	135	32	9.49	1 / 58	14.48	23.97	0.250	30.00	-6.03
	$\pi/2$ BPSK	1745.0	H	129	33	9.48	1 / 58	13.68	23.16	0.207	30.00	-6.84
	$\pi/2$ BPSK	1772.5	H	128	34	9.36	1 / 58	13.48	22.85	0.193	30.00	-7.15
	QPSK	1717.5	H	135	32	9.49	1 / 58	14.21	23.71	0.235	30.00	-6.29
	QPSK	1745.0	H	129	33	9.48	1 / 58	13.62	23.10	0.204	30.00	-6.90
	QPSK	1772.5	H	128	34	9.36	1 / 58	13.74	23.10	0.204	30.00	-6.90
	16-QAM	1745.0	H	129	33	9.48	1 / 58	12.65	22.13	0.163	30.00	-7.87
10 MHz	$\pi/2$ BPSK	1715.0	H	135	32	9.52	1 / 26	14.14	23.66	0.232	30.00	-6.34
	$\pi/2$ BPSK	1745.0	H	129	33	9.48	1 / 26	13.52	23.00	0.199	30.00	-7.00
	$\pi/2$ BPSK	1775.0	H	128	34	9.34	1 / 26	13.44	22.78	0.190	30.00	-7.22
	QPSK	1715.0	H	135	32	9.52	1 / 38	14.02	23.54	0.226	30.00	-6.46
	QPSK	1745.0	H	129	33	9.48	1 / 26	13.54	23.02	0.201	30.00	-6.98
	QPSK	1775.0	H	128	34	9.34	1 / 26	13.53	22.87	0.194	30.00	-7.13
	16-QAM	1745.0	H	129	33	9.48	1 / 13	12.54	22.02	0.159	30.00	-7.98
5 MHz	$\pi/2$ BPSK	1712.5	H	135	32	9.54	1 / 18	14.16	23.70	0.234	30.00	-6.30
	$\pi/2$ BPSK	1745.0	H	129	33	9.48	1 / 12	13.41	22.89	0.195	30.00	-7.11
	$\pi/2$ BPSK	1777.5	H	128	34	9.31	1 / 12	13.45	22.76	0.189	30.00	-7.24
	QPSK	1712.5	H	135	32	9.54	1 / 6	14.02	23.56	0.227	30.00	-6.44
	QPSK	1745.0	H	129	33	9.48	1 / 6	13.49	22.97	0.198	30.00	-7.03
	QPSK	1777.5	H	128	34	9.31	1 / 18	13.52	22.84	0.192	30.00	-7.16
	16-QAM	1712.5	H	135	32	9.54	1 / 18	12.31	21.86	0.153	30.00	-8.14
40 MHz	QPSK (CP-OFDM)	1730.0	H	135	32	9.48	1 / 54	12.07	21.55	0.143	30.00	-8.45
	BPSK (Folder Closed)	1730.0	H	299	352	9.48	1 / 108	12.74	22.22	0.167	30.00	-7.78
	BPSK (Opposite Pol.)	1730.0	V	145	42	9.20	1 / 161	12.13	21.33	0.136	30.00	-8.67
	BPSK (WCP)	1730.0	H	164	36	9.48	1 / 54	13.54	23.02	0.201	30.00	-6.98

Table 7-25. 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 $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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V3.0 1/5/2022

Test Setup

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

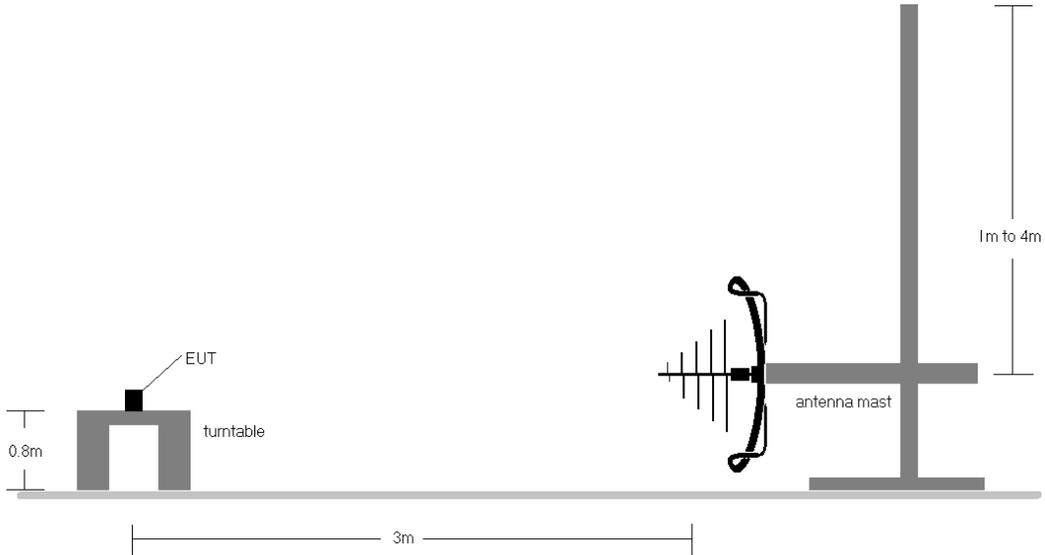


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

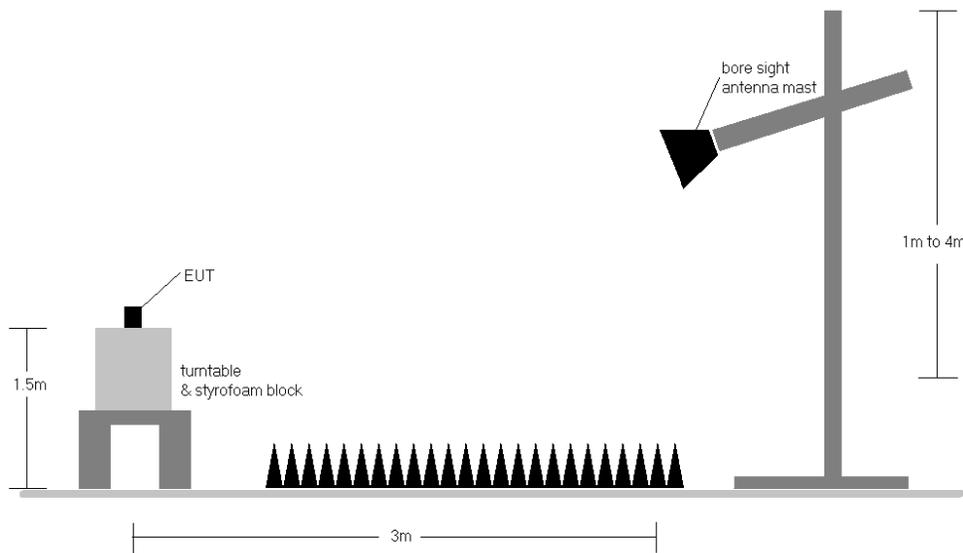


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

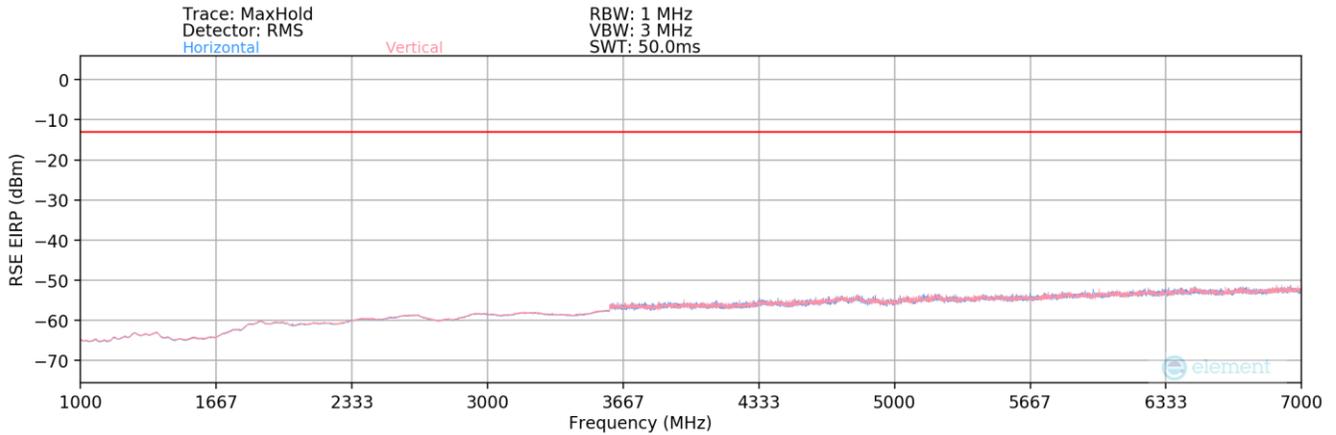
FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

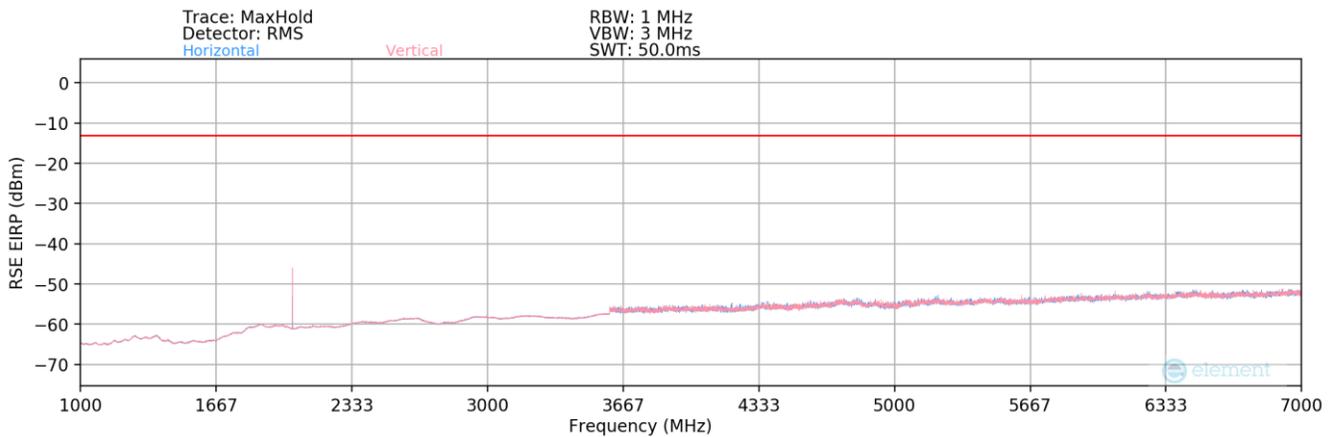
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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 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, is 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.

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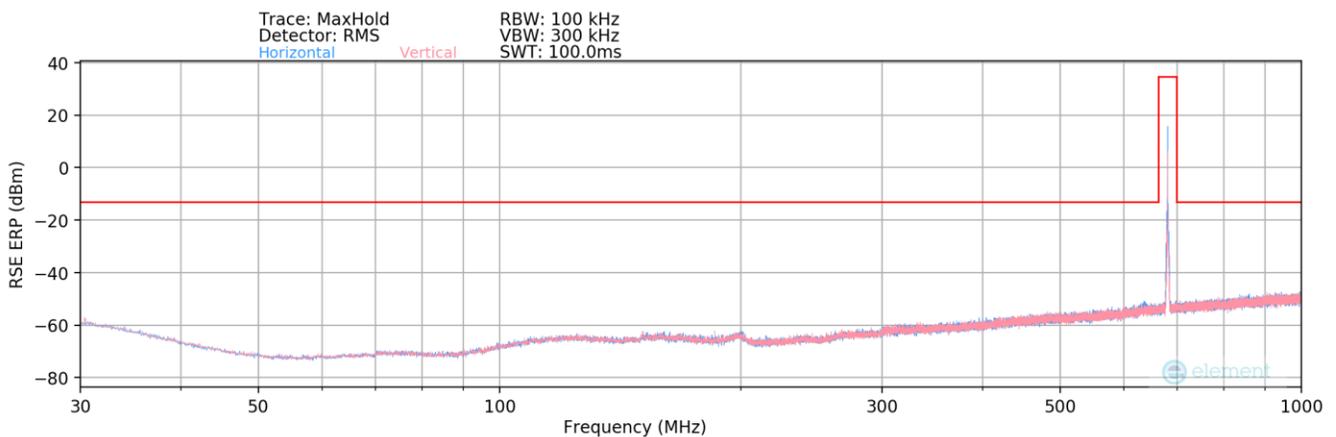
LTE Band 71 – Ant A + Ant B



Plot 7-426. Radiated Spurious Plot (LTE Band 71 – Ant A + Ant B - Open)



Plot 7-427. Radiated Spurious Plot (LTE Band 71 – Ant A + Ant B - Closed)



Plot 7-428. Radiated Spurious Plot (LTE Band 71 – Ant A + Ant B - Closed – Below 1GHz)

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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]
84.3	H	-	-	-77.13	14.46	44.33	-53.08	-13.00	-40.08
189.0	H	-	-	-76.23	18.60	49.37	-48.04	-13.00	-35.04
301.0	H	-	-	-78.72	21.21	49.49	-47.91	-13.00	-34.91

Table 7-26. Radiated Spurious Data <1GHz (LTE Band 71 – Mid Channel – Ant A + Ant B – Closed)

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]
1346.0	V	-	-	-70.74	-2.80	33.46	-61.79	-13.00	-48.79
2019.0	V	149	233	-45.11	-0.39	61.50	-33.75	-13.00	-20.75
2692.0	V	-	-	-71.51	1.26	36.75	-58.51	-13.00	-45.51
3365.0	V	-	-	-72.28	1.87	36.59	-58.67	-13.00	-45.67
4038.0	V	-	-	-76.46	3.41	33.95	-61.30	-13.00	-48.30

Table 7-27. Radiated Spurious Data (LTE Band 71 – Low Channel – Ant A + Ant B – Closed)

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]
1361.0	V	-	-	-70.78	-2.59	33.63	-61.63	-13.00	-48.63
2041.5	V	187	263	-48.65	-0.57	57.78	-37.48	-13.00	-24.48
2722.0	V	-	-	-72.11	0.72	35.61	-59.65	-13.00	-46.65
3402.5	V	-	-	-72.07	1.70	36.63	-58.63	-13.00	-45.63
4083.0	V	-	-	-77.33	2.96	32.63	-62.63	-13.00	-49.63

Table 7-28. Radiated Spurious Data (LTE Band 71 – Mid Channel – Ant A + Ant B – Closed)

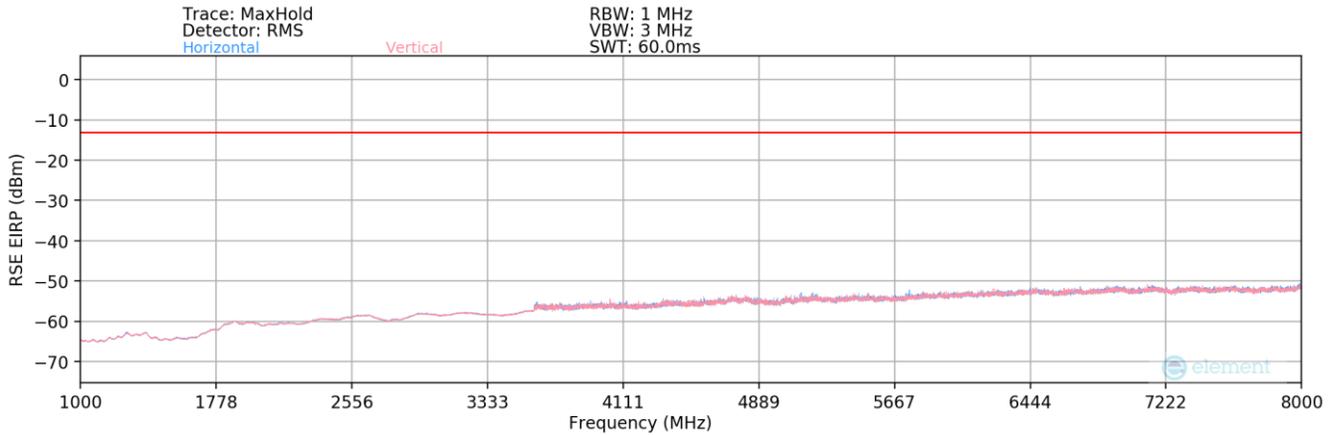
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 50

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]
1376.0	V	-	-	-71.01	-2.79	33.20	-62.05	-13.00	-49.05
2064.0	V	156	244	-44.96	-0.52	61.52	-33.74	-13.00	-20.74
2752.0	V	-	-	-72.33	0.49	35.16	-60.09	-13.00	-47.09
3440.0	V	-	-	-71.99	1.67	36.68	-58.57	-13.00	-45.57
4128.0	V	-	-	-75.98	3.01	34.03	-61.22	-13.00	-48.22

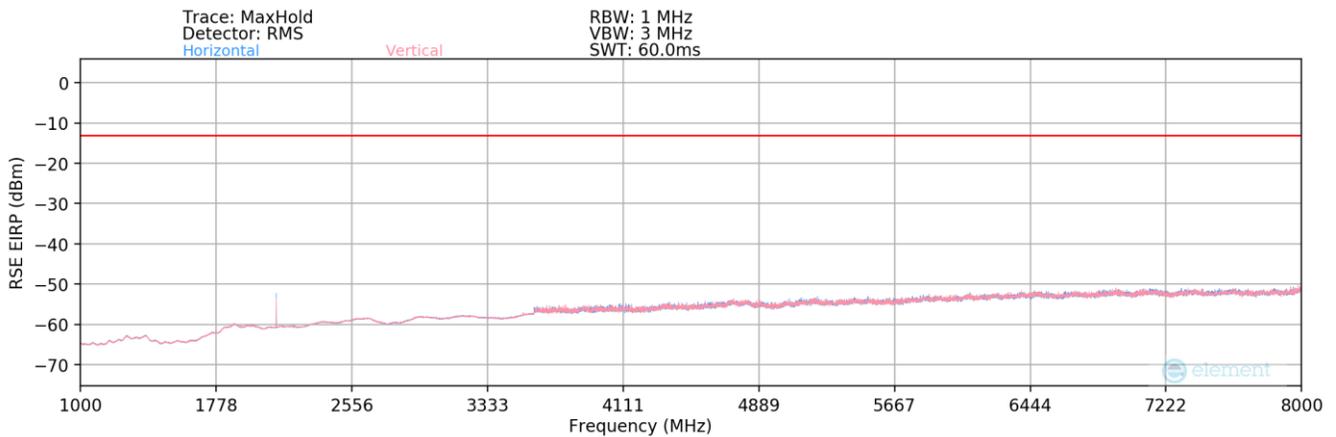
Table 7-29. Radiated Spurious Data (LTE Band 71 – High Channel – Ant A + Ant B – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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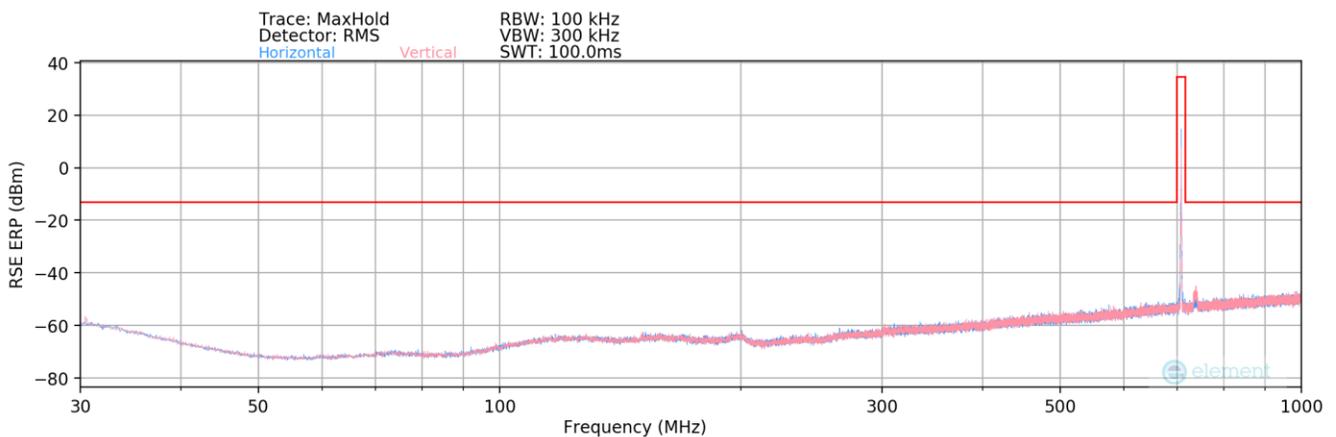
LTE Band 12 – Ant A + Ant B



Plot 7-429. Radiated Spurious Plot (LTE Band 12 – Ant A + Ant B - Open)



Plot 7-430. Radiated Spurious Plot (LTE Band 12 – Ant A + Ant B - Closed)



Plot 7-431. Radiated Spurious Plot (LTE Band 12 – Ant A + Ant B - Closed – Below 1GHz)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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]
65.0	H	-	-	-74.23	14.69	47.46	-49.94	-13.00	-36.94
92.0	H	-	-	-74.34	15.39	48.05	-49.36	-13.00	-36.36
351.0	H	-	-	-77.75	21.97	51.22	-46.19	-13.00	-33.19

Table 7-30. Radiated Spurious Data <1GHz (LTE Band 12 – High Channel – Ant A + Ant B - Closed)

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1408.0	H	-	-	-68.68	-3.69	34.63	-60.63	-13.00	-47.63
2112.0	H	159	60	-59.85	-0.26	46.89	-48.37	-13.00	-35.37
2816.0	H	-	-	-68.56	0.80	39.24	-56.02	-13.00	-43.02
3520.0	H	-	-	-67.38	2.19	41.81	-53.45	-13.00	-40.45
4224.0	H	-	-	-73.70	2.93	36.23	-59.03	-13.00	-46.03

Table 7-31. Radiated Spurious Data (LTE Band 12 – Low Channel – Ant A + Ant B - Closed)

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 [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.0	H	-	-	-69.98	-3.79	33.23	-62.03	-13.00	-49.03
2122.5	H	155	60	-60.17	-0.25	46.58	-48.67	-13.00	-35.67
2830.0	H	-	-	-68.50	0.83	39.33	-55.93	-13.00	-42.93
3537.5	H	-	-	-67.88	2.43	41.55	-53.70	-13.00	-40.70
4245.0	H	-	-	-74.21	3.01	35.80	-59.46	-13.00	-46.46

Table 7-32. Radiated Spurious Data (LTE Band 12 – Mid Channel – Ant A + Ant B - Closed)

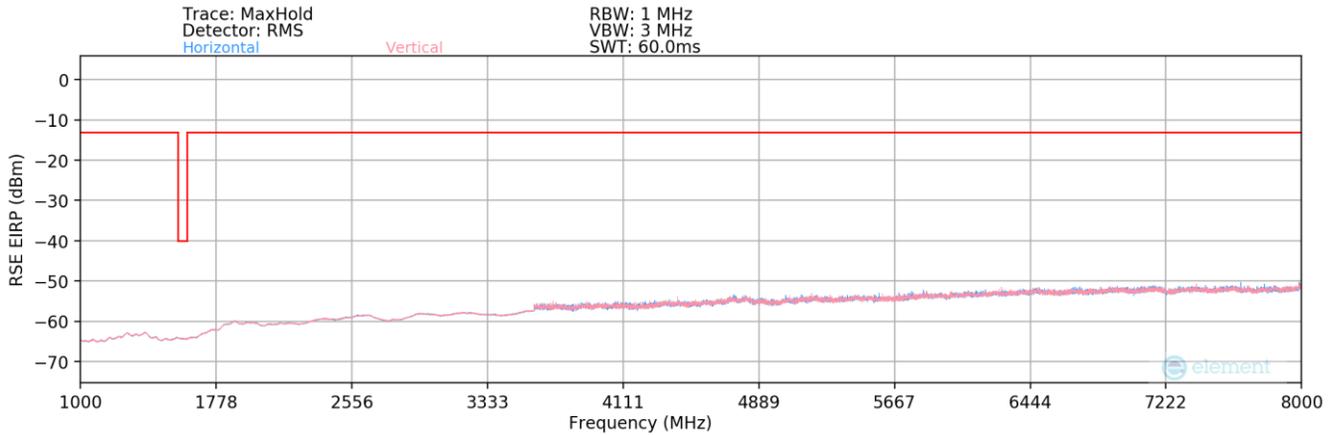
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1422.0	H	-	-	-69.75	-3.83	33.42	-61.84	-13.00	-48.84
2133.0	H	159	61	-59.01	-0.22	47.77	-47.49	-13.00	-34.49
2844.0	H	-	-	-68.92	0.93	39.01	-56.25	-13.00	-43.25
3555.0	H	-	-	-68.17	2.76	41.59	-53.67	-13.00	-40.67
4266.0	H	-	-	-74.32	3.24	35.92	-59.34	-13.00	-46.34

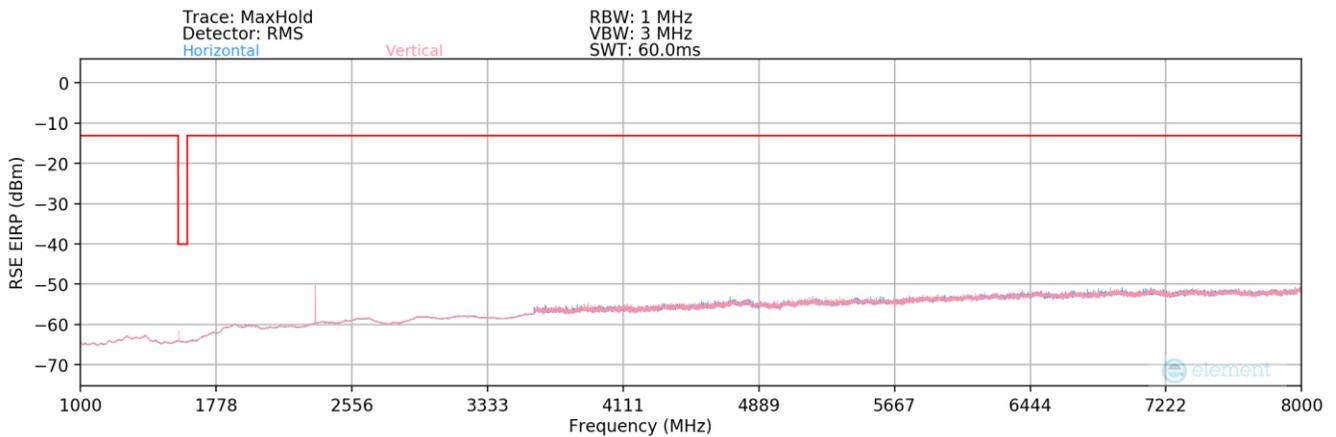
Table 7-33. Radiated Spurious Data (LTE Band 12 – High Channel – Ant A + Ant B - Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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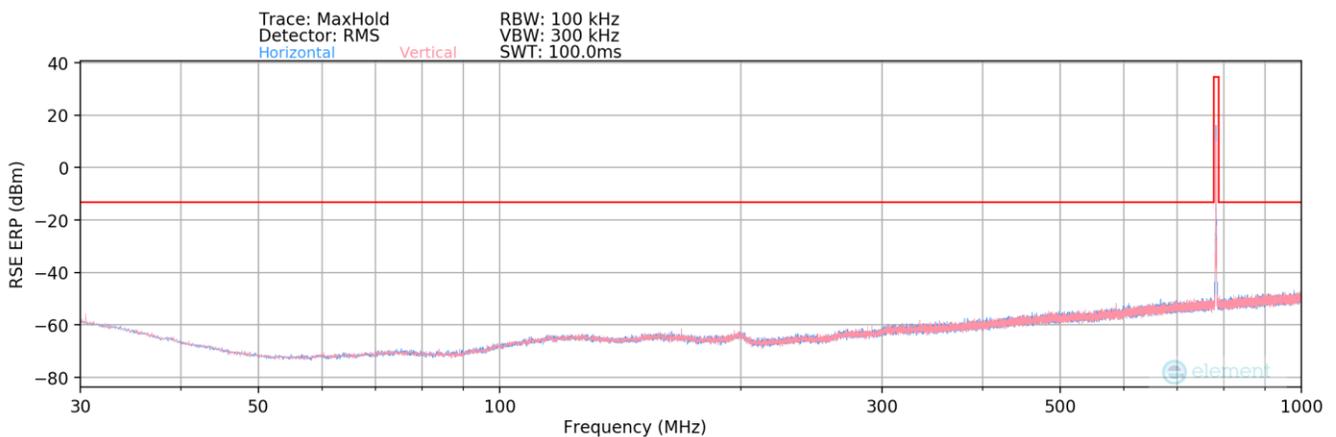
LTE Band 13 – Ant A + Ant B



Plot 7-432. Radiated Spurious Plot (LTE Band 13 – Ant A + Ant B - Open)



Plot 7-433. Radiated Spurious Plot (LTE Band 13 – Ant A + Ant B - Closed)



Plot 7-434. Radiated Spurious Plot (LTE Band 13 – Ant A + Ant B - Closed – Below 1GHz)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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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]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
86.0	V	-	-	-76.98	14.39	44.41	-53.00	-13.00	-40.00
201.0	V	-	-	-77.25	20.22	49.97	-47.44	-13.00	-34.44
301.0	V	-	-	-78.04	21.21	50.17	-47.23	-13.00	-34.23

Table 7-34. Radiated Spurious Data <1GHz (LTE Band 13 – Mid Channel – Ant A + Ant B – Closed)

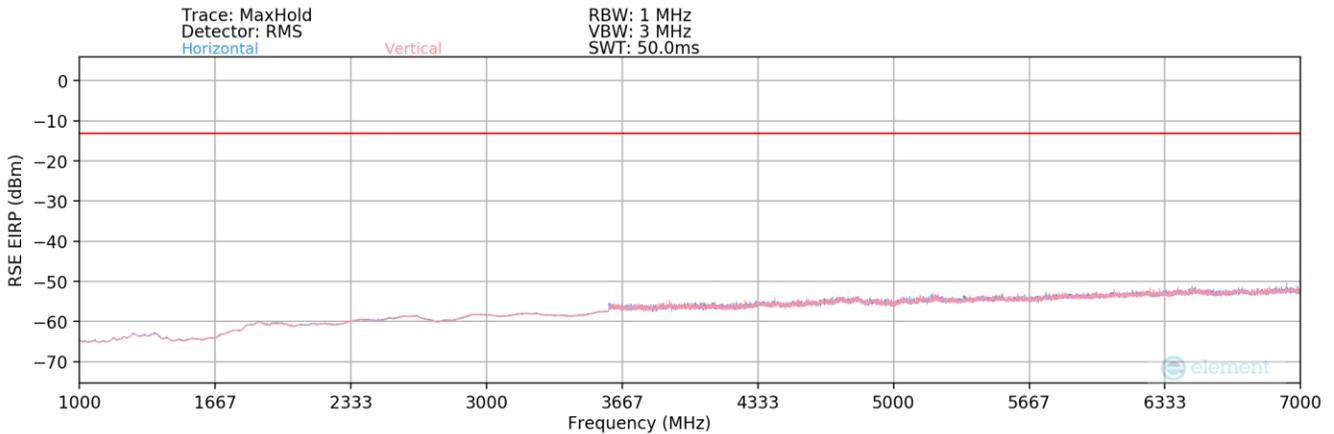
Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

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]
1564.0	V	184	234	-69.94	-3.87	33.19	-62.07	-40.00	-22.07
2346.0	V	155	26	-59.06	0.64	48.58	-46.68	-13.00	-33.68
3128.0	V	-	-	-73.09	1.93	35.84	-59.42	-13.00	-46.42
3910.0	V	-	-	-73.56	3.09	36.53	-58.73	-13.00	-45.73
4692.0	V	-	-	-73.76	4.17	37.41	-57.84	-13.00	-44.84

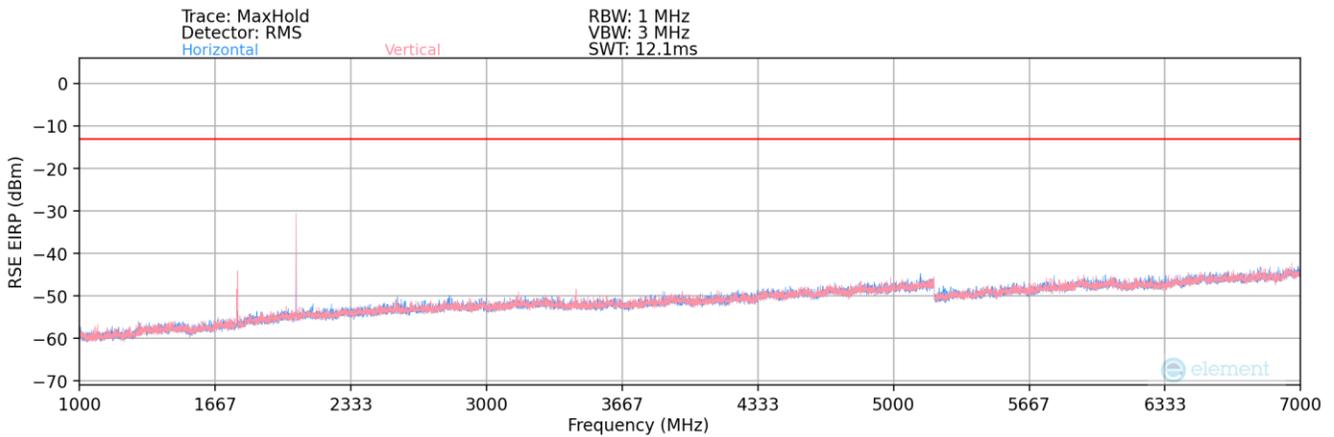
Table 7-35. Radiated Spurious Data (LTE Band 13 – Mid Channel – Ant A + Ant B – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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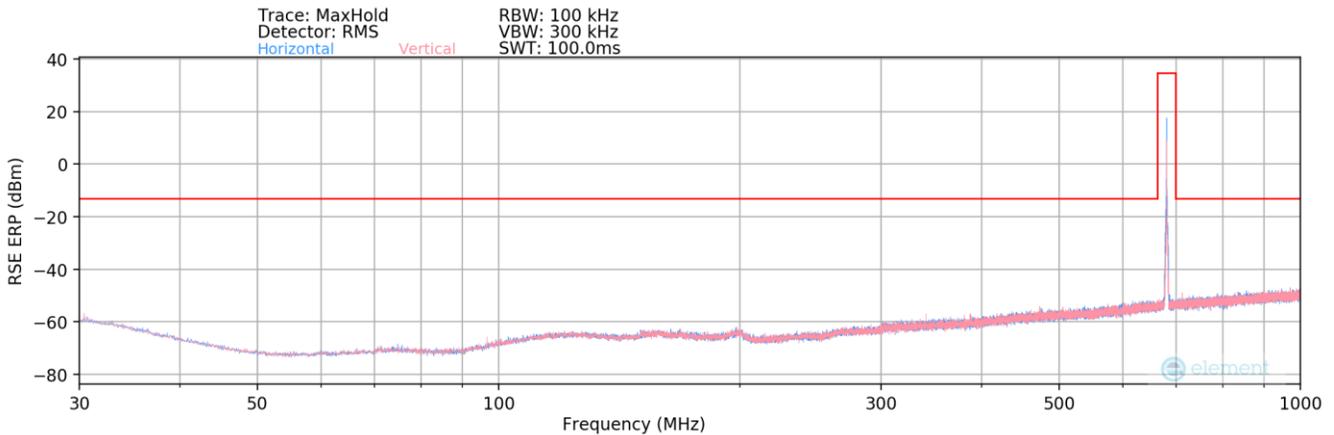
NR Band n71 – Ant A + Ant B



Plot 7-435. Radiated Spurious Plot (NR Band n71 – Ant A + Ant B - Open)



Plot 7-436. Radiated Spurious Plot (NR Band n71 – Ant A + Ant B - Closed)



Plot 7-437. Radiated Spurious Plot (NR Band n71 – Ant A + Ant B – Closed – Below 1Ghz)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
169.0	H	-	-	-83.71	19.65	42.94	-54.47	-13.00	-41.47
401.8	H	-	-	-83.65	23.37	46.72	-50.69	-13.00	-37.69

Table 7-36. Radiated Spurious Data <1GHz (NR Band n71 – High Channel – Ant A + Ant B – Closed)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1346.0	V	-	-	-68.11	-0.04	38.85	-56.40	-13.00	-43.40
2019.0	V	186	33	-50.01	4.00	60.99	-34.27	-13.00	-21.27
2692.0	V	-	-	-67.41	5.52	45.11	-50.15	-13.00	-37.15
3365.0	V	-	-	-67.39	7.31	46.92	-48.34	-13.00	-35.34
4038.0	V	-	-	-77.00	8.60	38.60	-56.65	-13.00	-43.65

Table 7-37. Radiated Spurious Data (NR Band n71 – Low Channel – Ant A + Ant B – Closed)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1361.0	V	-	-	-67.28	0.03	39.75	-55.50	-13.00	-42.50
2041.5	V	176	27	-49.65	3.45	60.80	-34.46	-13.00	-21.46
2722.0	V	-	-	-67.37	5.90	45.53	-49.72	-13.00	-36.72
3402.5	V	-	-	-67.75	7.13	46.38	-48.87	-13.00	-35.87
4083.0	V	-	-	-76.91	8.44	38.53	-56.73	-13.00	-43.73

Table 7-38. Radiated Spurious Data (NR Band n71 – Mid Channel – Ant A + Ant B – Closed)

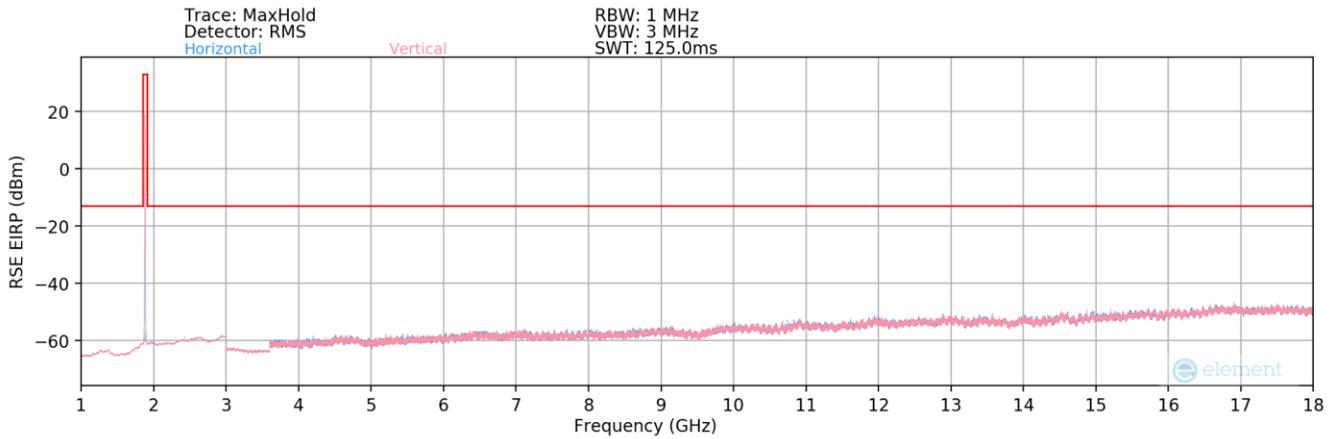
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 53

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1376.0	V	145	277	-67.80	-0.03	39.17	-56.08	-13.00	-43.08
2064.0	V	205	219	-45.41	3.51	65.10	-30.15	-13.00	-17.15
2752.0	V	-	-	-67.59	5.46	44.87	-50.38	-13.00	-37.38
3440.0	V	-	-	-68.04	7.42	46.38	-48.88	-13.00	-35.88
4128.0	V	-	-	-68.52	8.78	47.26	-48.00	-13.00	-35.00

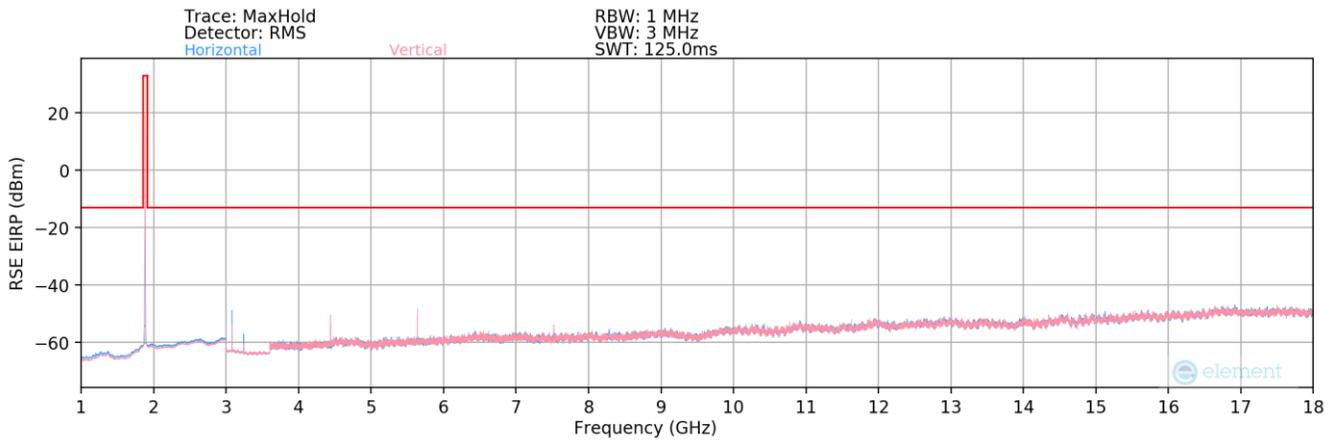
Table 7-39. Radiated Spurious Data (NR Band n71 – High Channel – Ant A + Ant B – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 262 of 312

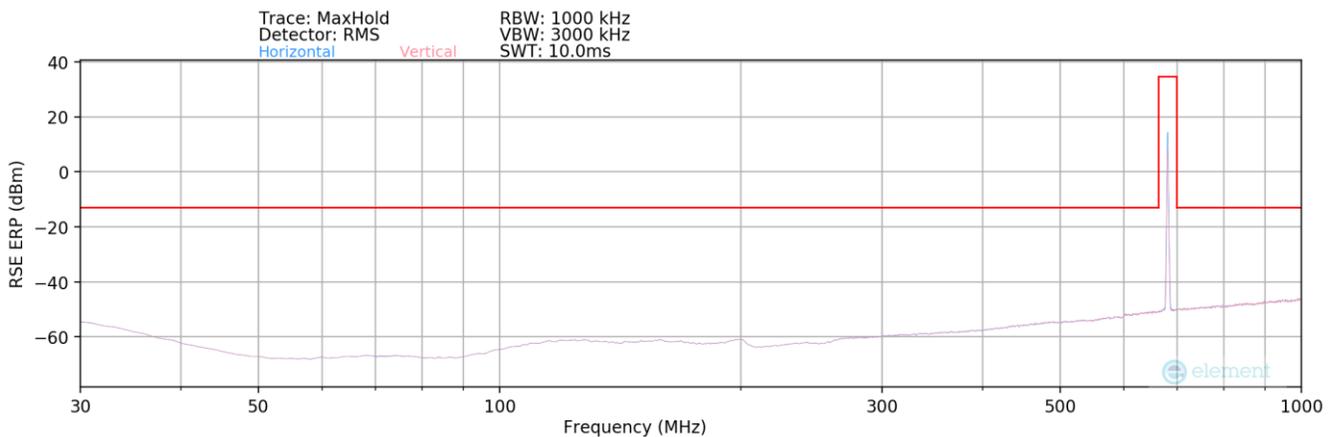
EN-DC n71 (Ant A) – Band 2



Plot 7-438. Radiated Spurious Plot (NR n71 (Ant A) – Band 2 – Open)



Plot 7-439. Radiated Spurious Plot (NR n71 (Ant A) – Band 2 – Closed)



Plot 7-440. Radiated Spurious Plot (NR n71 (Ant A) – Band 2 – Closed – Below 1GHz)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 263 of 312



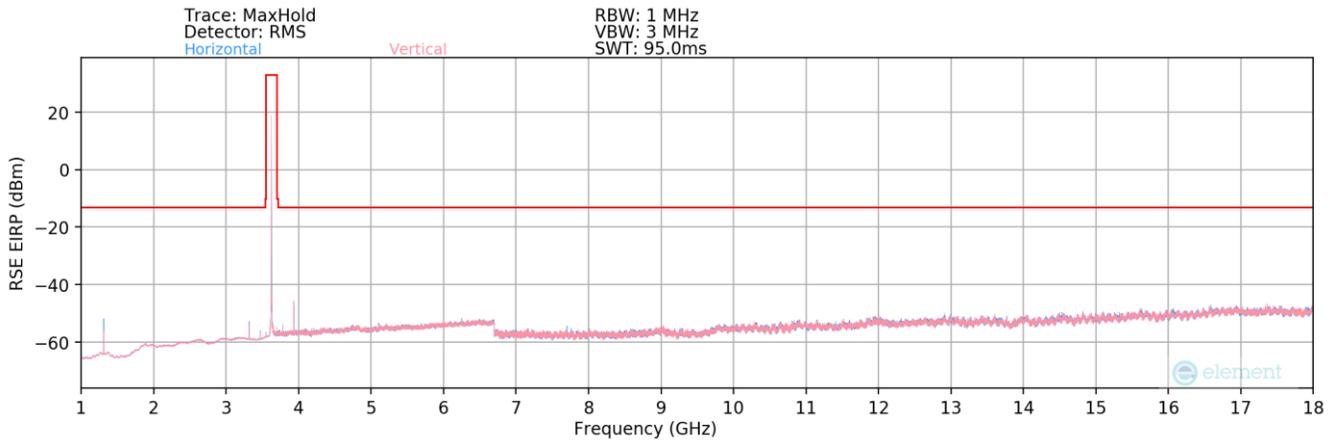
Case:	n71 + B2
Bandwidth (MHz):	20 & 20
Frequency (MHz):	680.5 & 1880
RB / Offset:	1 / 53 & 1 / 50
Mode:	EN-DC
Anchor Band:	LTE Band 2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
161.5	H	-	-	-84.07	19.65	42.58	-52.68	-13.00	-39.68
519.0	H	-	-	-83.96	25.98	49.02	-46.24	-13.00	-33.24
3079.5	H	283	231	-66.61	3.11	43.50	-51.76	-13.00	-38.76
3241.0	H	376	27	-73.21	2.51	36.30	-58.96	-13.00	-45.96
4440.5	V	372	36	-68.57	3.64	42.07	-53.18	-13.00	-40.18
5640.0	V	352	39	-66.91	5.52	45.61	-49.65	-13.00	-36.65
7520.0	V	201	72	-75.14	7.83	39.69	-55.57	-13.00	-42.57

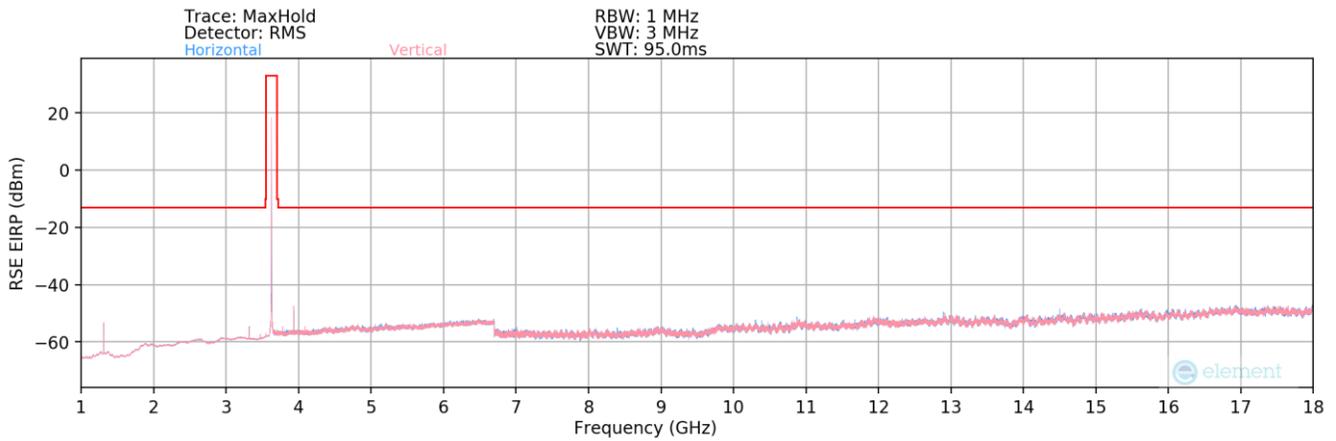
Table 7-40. Radiated Spurious Data (NR Band n71 (Ant A) – Band 2 – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 264 of 312

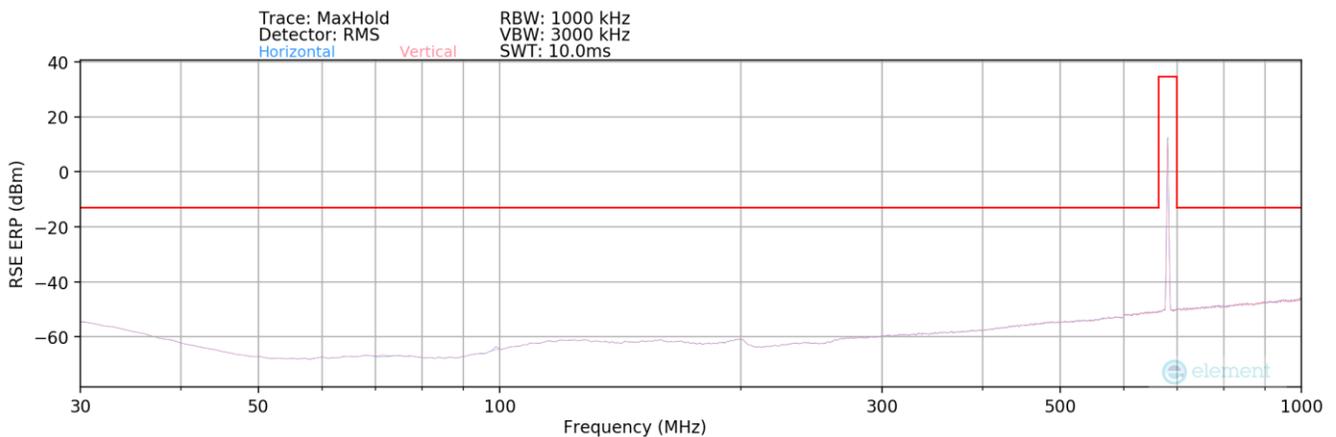
EN-DC n71 (Ant A) – Band 48



Plot 7-441. Radiated Spurious Plot (NR n71 (Ant A) – Band 48 – Open)



Plot 7-442. Radiated Spurious Plot (NR n71 (Ant A)– Band 48 – Closed)



Plot 7-443. Radiated Spurious Plot (NR n71 (Ant A) – Band 48 – Open – Below 1GHz)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 265 of 312



c	n71 + B48
Bandwidth (MHz):	20 & 20
Frequency (MHz):	680.5 & 3625
RB / Offset:	1 / 53 & 1 / 50
Mode:	EN-DC
Anchor Band:	LTE Band 48

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
222.5	V	-	-	-84.02	17.92	40.90	-54.35	-13.00	-41.35
458.0	V	-	-	-83.94	25.12	48.18	-47.07	-13.00	-34.07
1310.9	V	254	45	-43.49	-3.03	60.48	-34.78	-13.00	-21.78
3318.0	V	314	103	-64.73	1.91	44.18	-51.08	-13.00	-38.08
3932.3	V	197	344	-60.52	3.01	49.49	-45.76	-13.00	-32.76
4305.5	V	335	149	-74.19	3.39	36.20	-59.06	-13.00	-46.06

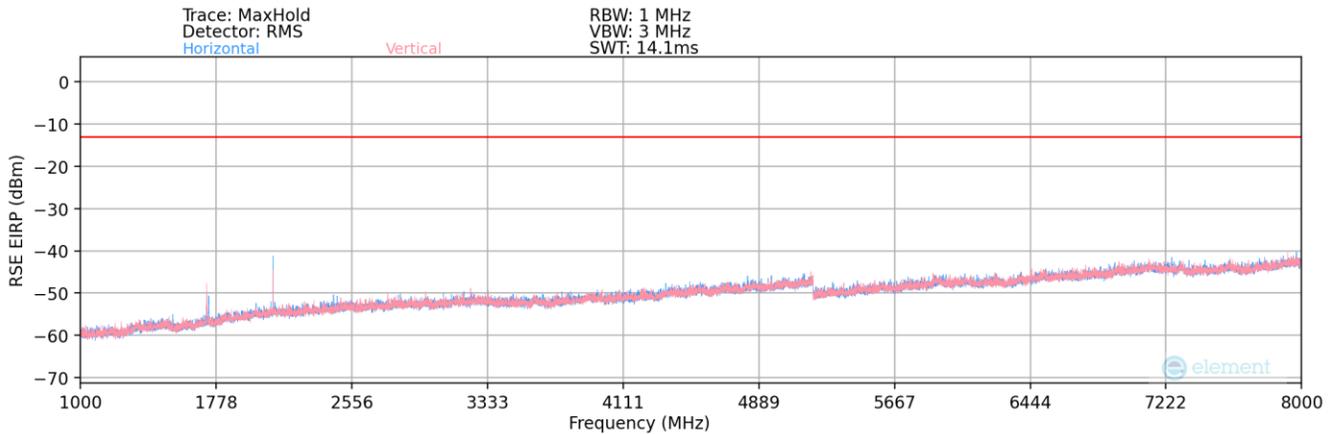
Table 7-41. Radiated Spurious Data (NR Band n71 (Ant A) – Band 48– Open)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 266 of 312

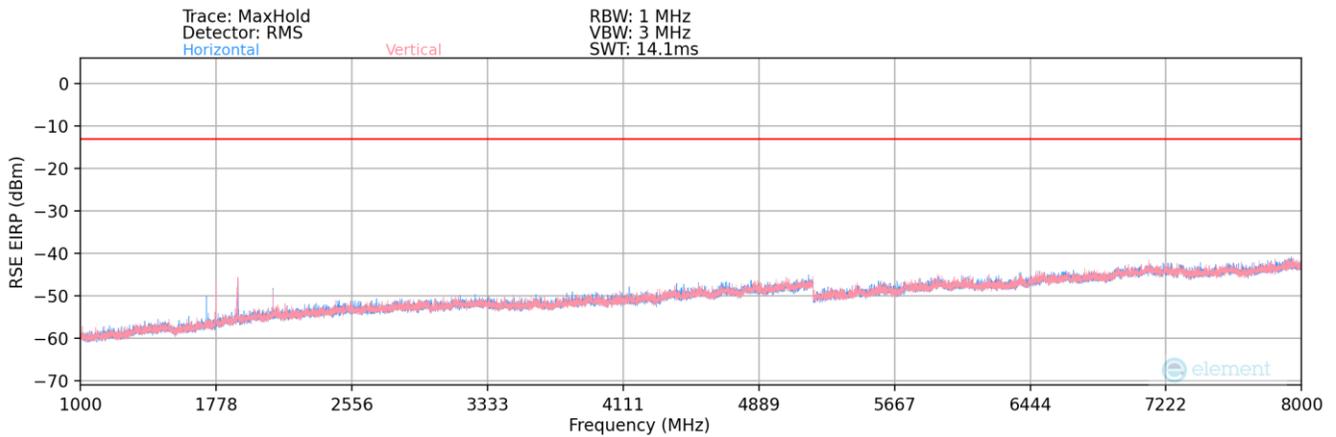
V3.0 1/5/2022

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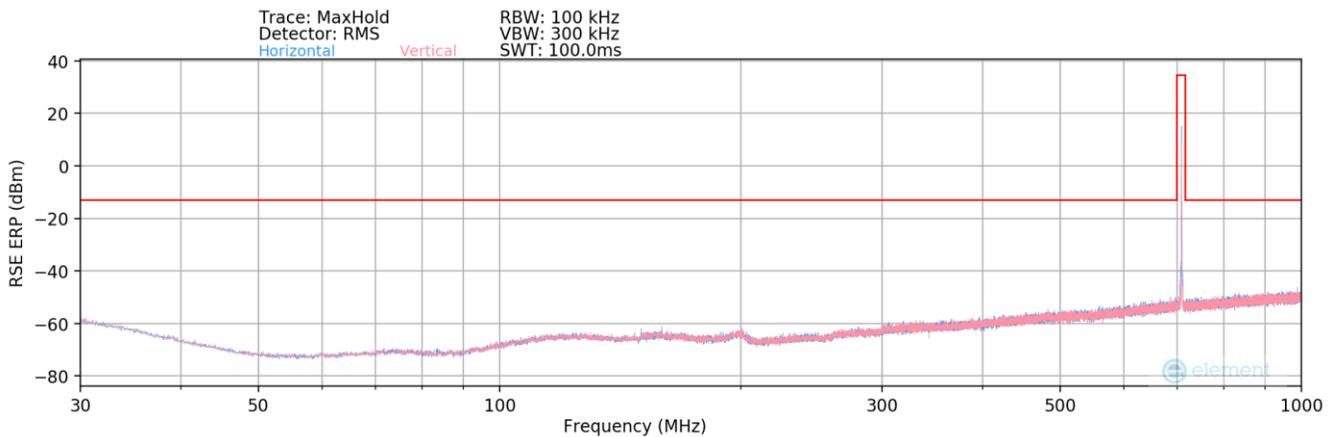
NR Band n12 – Ant A + Ant B



Plot 7-444. Radiated Spurious Plot (NR Band n12 – Ant A + Ant B - Open)



Plot 7-445. Radiated Spurious Plot (NR Band n12 – Ant A + Ant B - Closed)



Plot 7-446. Radiated Spurious Plot (NR Band n12 – Ant A + Ant B – Closed – Below 1GHz)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 267 of 312

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB μ V/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
158.2	H	-	-	-94.90	20.30	32.40	-65.00	-13.00	-52.00
395.7	H	-	-	-95.12	23.42	35.30	-62.10	-13.00	-49.10

Table 7-42. Radiated Spurious Data <1GHz (NR Band n12 – High Channel – Ant A + Ant B - Open)

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

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]
1413.0	H	-	-	-68.01	-0.35	38.64	-56.62	-13.00	-43.62
2119.5	H	112	311	-65.46	4.37	45.91	-49.35	-13.00	-36.35
2826.0	H	-	-	-69.54	6.27	43.73	-51.53	-13.00	-38.53
3532.5	H	-	-	-69.97	7.35	44.38	-50.87	-13.00	-37.87

Table 7-43. Radiated Spurious Data (NR Band n12 – Low Channel – Ant A + Ant B - Open)

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

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]
1415.0	H	-	-	-67.94	-0.34	38.72	-56.54	-13.00	-43.54
2122.5	H	112	328	-65.34	4.34	46.00	-49.26	-13.00	-36.26
2830.0	H	-	-	-70.54	6.32	42.78	-52.48	-13.00	-39.48
3537.5	H	-	-	-71.08	7.37	43.29	-51.97	-13.00	-38.97

Table 7-44. Radiated Spurious Data (NR Band n12 – Mid Channel – Ant A + Ant B – Open)

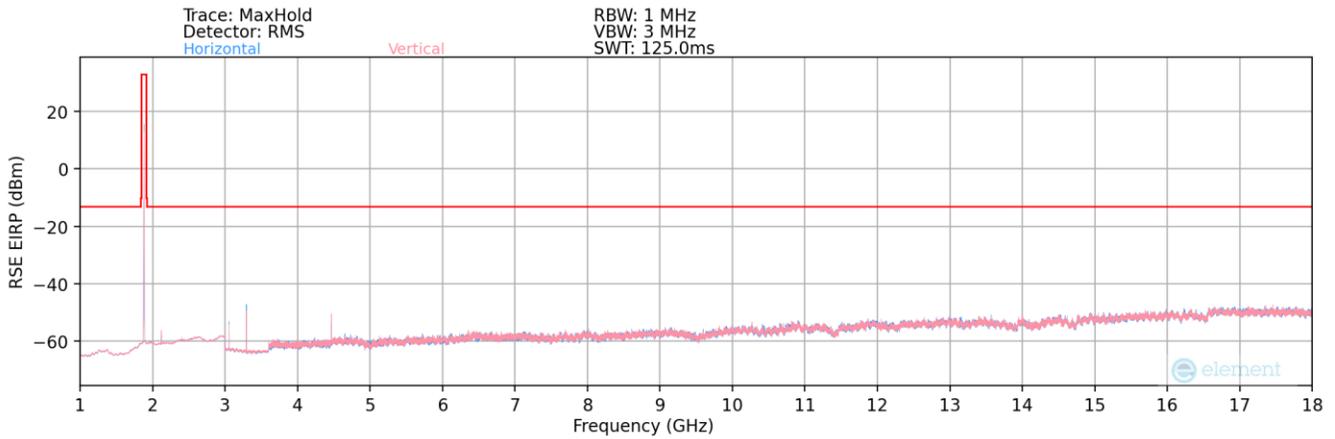
Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 39

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]
1417.0	H	117	178	-68.65	-0.31	38.04	-57.21	-13.00	-44.21
2125.5	H	145	337	-63.58	4.30	47.72	-47.53	-13.00	-34.53
2834.0	H	-	-	-70.99	6.35	42.36	-52.90	-13.00	-39.90
3542.5	H	-	-	-69.89	7.41	44.52	-50.73	-13.00	-37.73

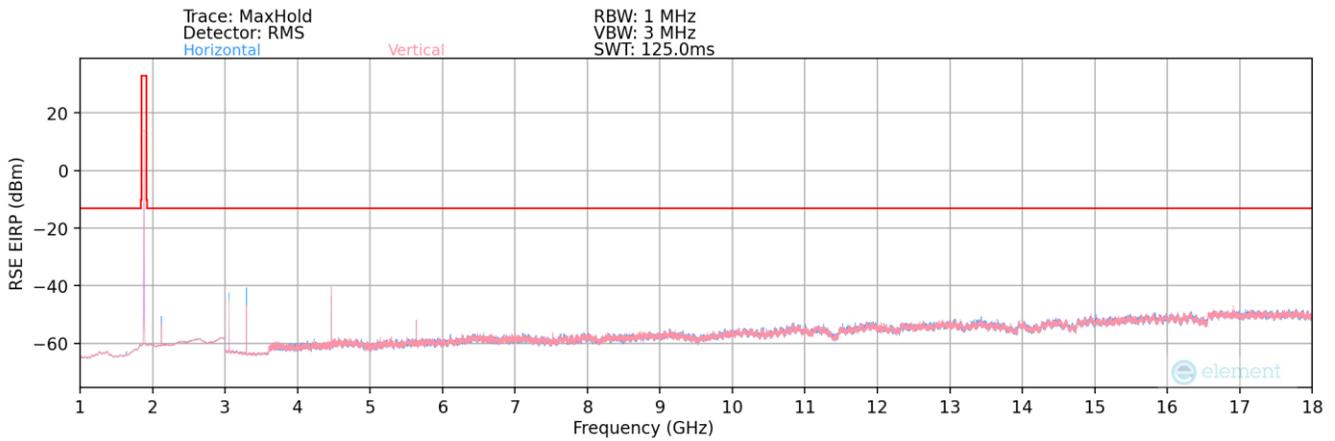
Table 7-45. Radiated Spurious Data (NR Band n12 – High Channel – Ant A + Ant B - Open)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 268 of 312

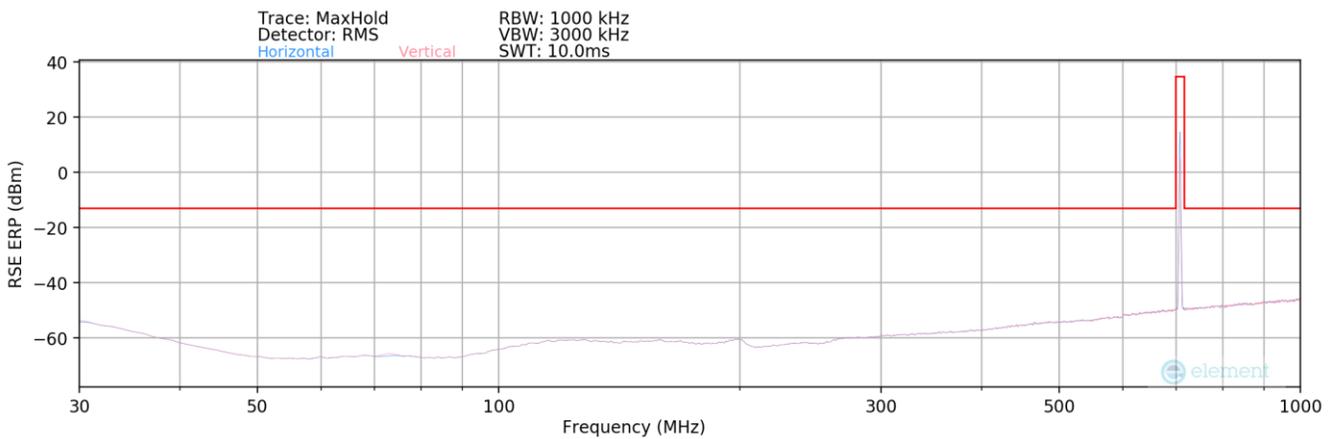
EN-DC n12 (Ant A) – Band 2



Plot 7-447. Radiated Spurious Plot (NR n12 (Ant A)– Band 2 – Open)



Plot 7-448. Radiated Spurious Plot (NR n12 (Ant A)– Band 2 – Closed)



Plot 7-449. Radiated Spurious Plot (NR n12 (Ant A)– Band 2 – Closed – Below 1GHz)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 269 of 312



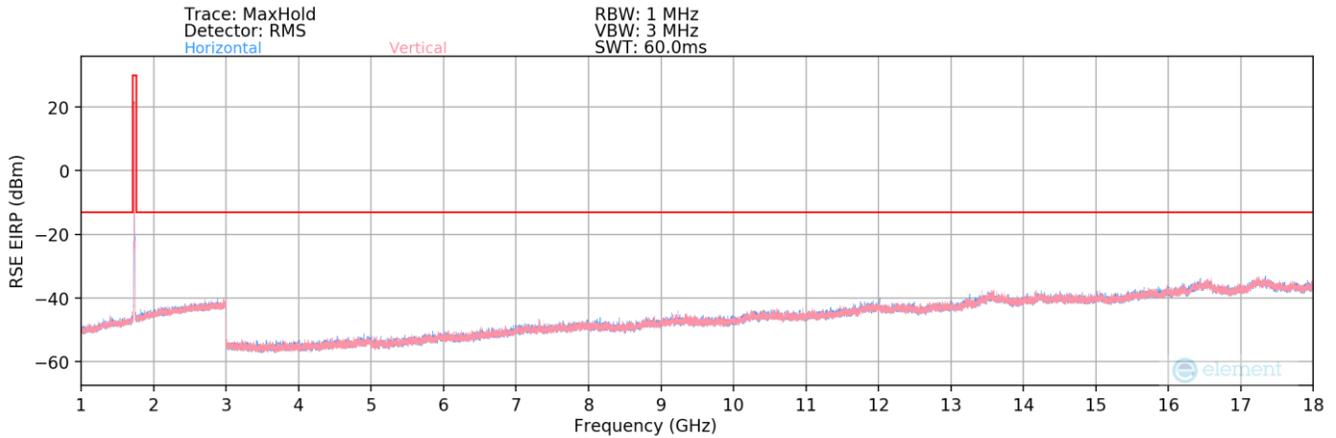
Case:	n12 + B2
Bandwidth (MHz):	15MHz / 20MHz
Frequency (MHz):	707.5 & 1880
RB / Offset:	1/37 & 1/50
Mode:	EN-DC
Anchor Band:	B2

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]
800.0	H	-	-	-71.92	2.91	37.99	-57.27	-13.00	-44.27
2122.5	H	-	-	-68.99	2.91	40.92	-54.34	-13.00	-41.34
3052.5	H	379	362	-53.66	3.14	56.48	-38.78	-13.00	-25.78
3537.5	H	-	-	-68.06	2.40	41.34	-53.91	-13.00	-40.91
4245.0	H	323	155	-73.17	3.28	37.11	-58.15	-13.00	-45.15
4487.5	H	329	152	-59.37	4.04	51.67	-43.59	-13.00	-30.59
5640.0	H	229	209	-65.90	5.52	46.62	-48.64	-13.00	-35.64

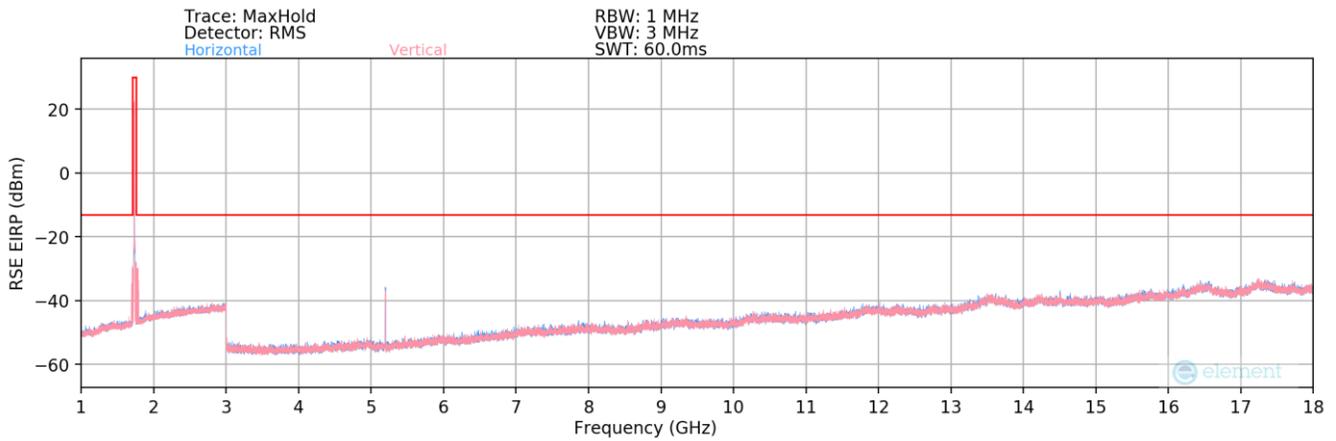
Table 7-46. Radiated Spurious Data (NR Band n12 (Ant A) – Band 2 – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 270 of 312

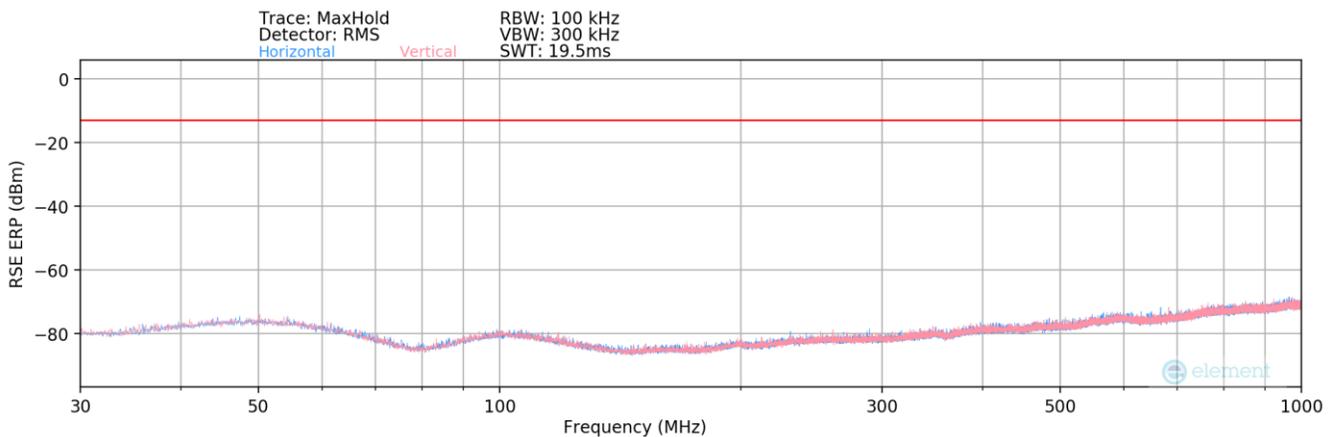
WCDMA AWS – Ant A



Plot 7-450. Radiated Spurious Plot (WCDMA AWS – Ant A – Open)



Plot 7-451. Radiated Spurious Plot (WCDMA AWS – Ant A – Closed)



Plot 7-452. Radiated Spurious Plot (WCDMA AWS – Ant A – Closed – Below 1GHz)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 271 of 312



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]
315.0	H	-	-	-79.21	-13.72	14.07	-83.34	-13.00	-70.34

7-47. Radiated Spurious Data <1GHz (WCDMA AWS – Low Channel – Ant A – Closed)

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]
3424.8	H	328	26	-78.59	7.71	36.12	-59.14	-13.00	-46.14
5137.2	H	127	228	-61.35	10.95	56.60	-38.66	-13.00	-25.66
6849.6	H	-	-	-82.06	14.63	39.57	-55.68	-13.00	-42.68
8562.0	H	-	-	-83.65	17.80	41.15	-54.11	-13.00	-41.11
10274.4	H	-	-	-83.53	20.59	44.06	-51.20	-13.00	-38.20

7-48. Radiated Spurious Data (WCDMA AWS – Low Channel – Ant A – Closed)

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]
3465.2	H	329	19	-78.01	7.51	36.50	-58.76	-13.00	-45.76
5197.8	H	112	235	-61.27	10.35	56.08	-39.17	-13.00	-26.17
6930.4	H	-	-	-82.16	14.33	39.17	-56.09	-13.00	-43.09
8663.0	H	-	-	-83.82	18.26	41.44	-53.81	-13.00	-40.81
10395.6	H	-	-	-83.69	20.69	44.00	-51.26	-13.00	-38.26

Table 7-49. Radiated Spurious Data (WCDMA AWS – Mid Channel – Ant A – Closed)

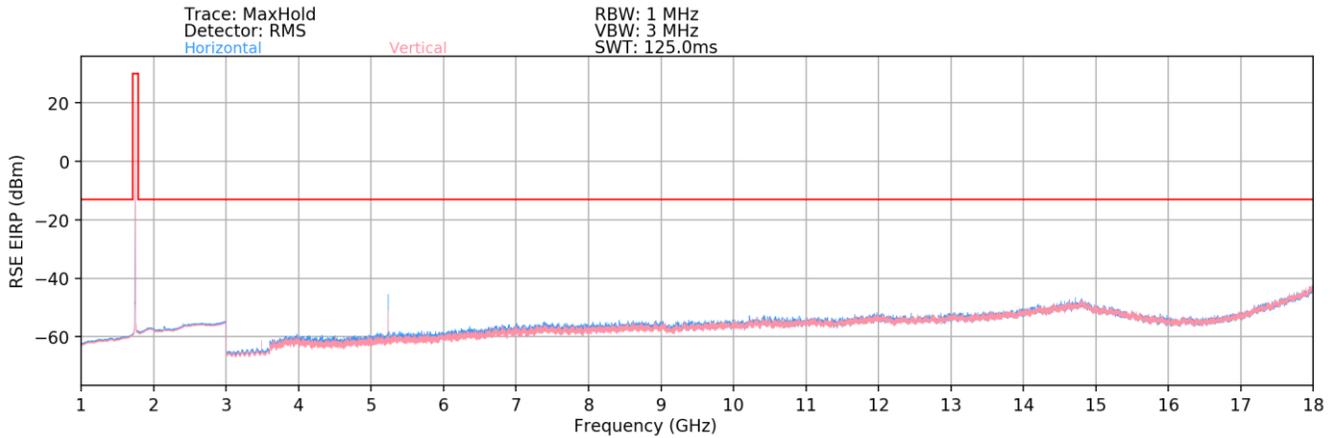
Mode:	WCDMA RMC
Channel:	1513
Frequency (MHz):	1752.6

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]
3505.2	H	341	27	-79.25	7.72	35.47	-59.79	-13.00	-46.79
5257.8	H	126	222	-64.75	10.65	52.90	-42.36	-13.00	-29.36
7010.4	H	-	-	-82.57	15.24	39.67	-55.58	-13.00	-42.58
8763.0	H	-	-	-83.01	17.76	41.75	-53.51	-13.00	-40.51
10515.6	H	-	-	-83.44	20.65	44.21	-51.05	-13.00	-38.05

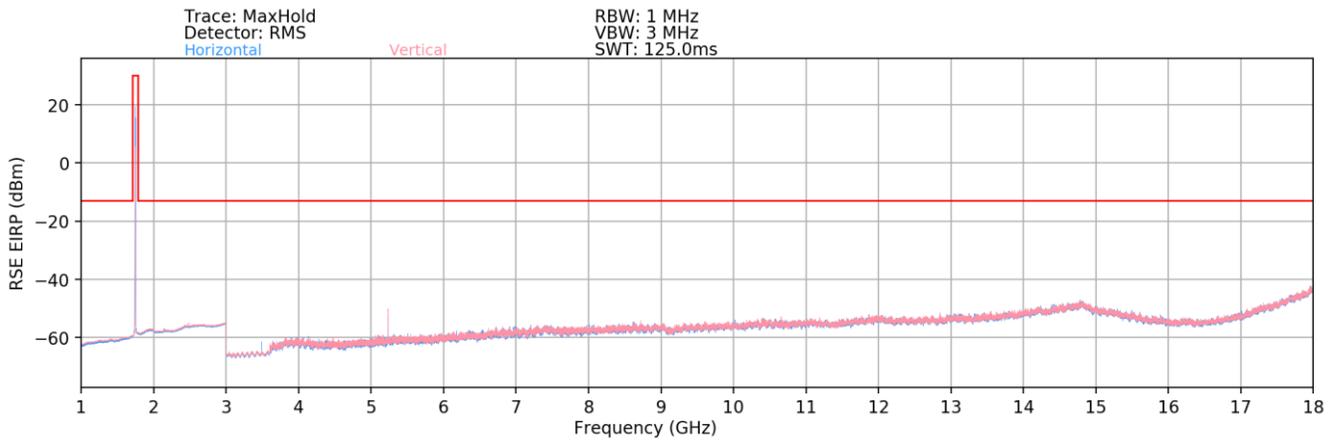
Table 7-50. Radiated Spurious Data (WCDMA AWS – High Channel – Ant A – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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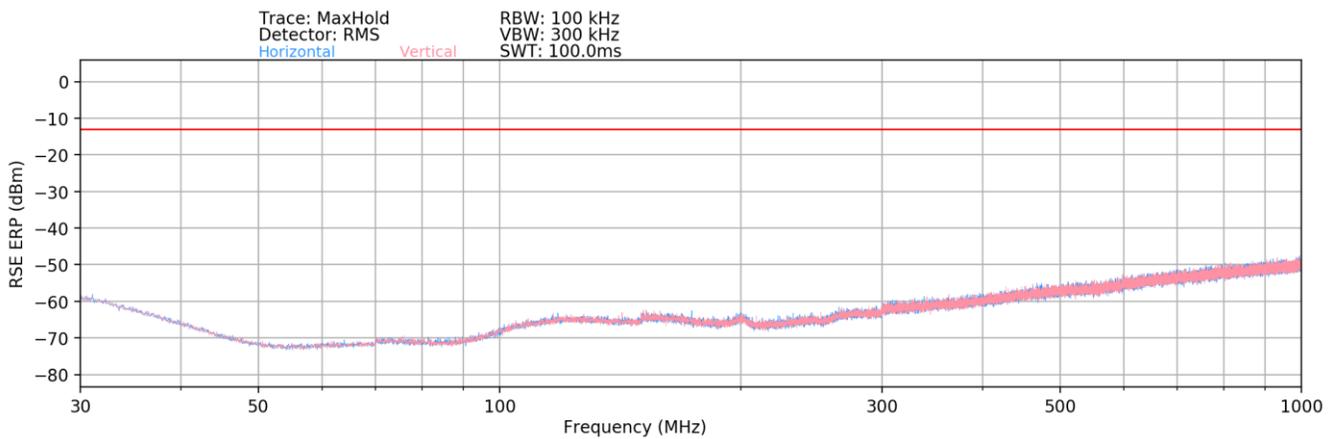
LTE Band 66/4 – Ant B



Plot 7-453. Radiated Spurious Plot (LTE Band 66/4 – Ant B - Open)



Plot 7-454. Radiated Spurious Plot (LTE Band 66/4 – Ant B – Closed)



Plot 7-455. Radiated Spurious Plot (LTE Band 66/4 – Ant B – Open)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 273 of 312

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]
45.0	H	-	-	-91.97	16.77	31.80	-65.60	-13.00	-52.60
211.0	H	-	-	-91.69	17.41	32.72	-64.69	-13.00	-51.69
495.0	H	-	-	-91.03	25.37	41.34	-56.07	-13.00	-43.07

Table 7-51. Radiated Spurious Data <1GHz (LTE Band 66/4 – Mid Channel – Ant B – Open)

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]
3440.0	H	107	228	-71.58	-0.52	34.90	-60.36	-13.00	-47.36
5160.0	H	150	142	-67.75	2.11	41.36	-53.90	-13.00	-40.90
6880.0	H	120	25	-76.70	5.79	36.09	-59.17	-13.00	-46.17
8600.0	H	-	-	-81.24	8.93	34.69	-60.56	-13.00	-47.56
10320.0	H	-	-	-81.83	11.73	36.90	-58.36	-13.00	-45.36
12040.0	H	-	-	-81.34	12.68	38.34	-56.92	-13.00	-43.92

Table 7-52. Radiated Spurious Data (LTE Band 66/4 – Low Channel – Ant B – Open)

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]
3490.0	H	142	221	-73.59	-1.08	32.33	-62.92	-13.00	-49.92
5235.0	H	137	246	-67.19	2.23	42.04	-53.21	-13.00	-40.21
6980.0	H	109	30	-77.71	6.85	36.14	-59.11	-13.00	-46.11
8725.0	H	-	-	-80.62	8.99	35.37	-59.88	-13.00	-46.88
10470.0	H	-	-	-81.97	11.52	36.55	-58.71	-13.00	-45.71
12215.0	H	-	-	-81.78	12.49	37.71	-57.55	-13.00	-44.55

Table 7-53. Radiated Spurious Data (LTE Band 66/4 – Mid Channel – Ant B – Open)

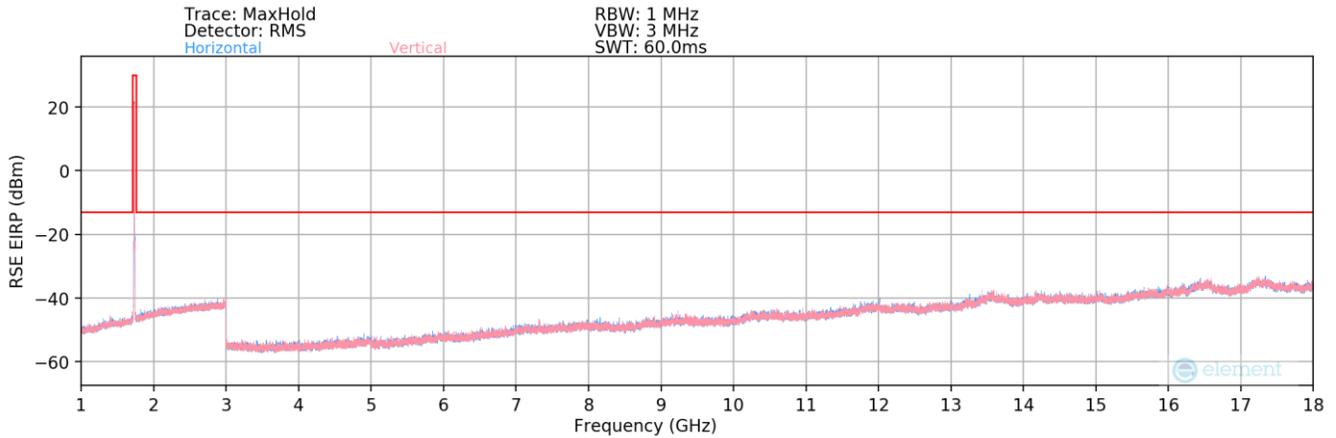
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

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]
3540.0	H	137	3	-77.89	-0.66	28.45	-66.81	-13.00	-53.81
5310.0	H	140	175	-67.51	2.89	42.38	-52.87	-13.00	-39.87
7080.0	H	114	247	-77.96	6.51	35.55	-59.71	-13.00	-46.71
8850.0	H	-	-	-80.71	8.74	35.03	-60.22	-13.00	-47.22
10620.0	H	-	-	-81.64	11.44	36.80	-58.46	-13.00	-45.46
12390.0	H	-	-	-81.46	12.73	38.27	-56.99	-13.00	-43.99

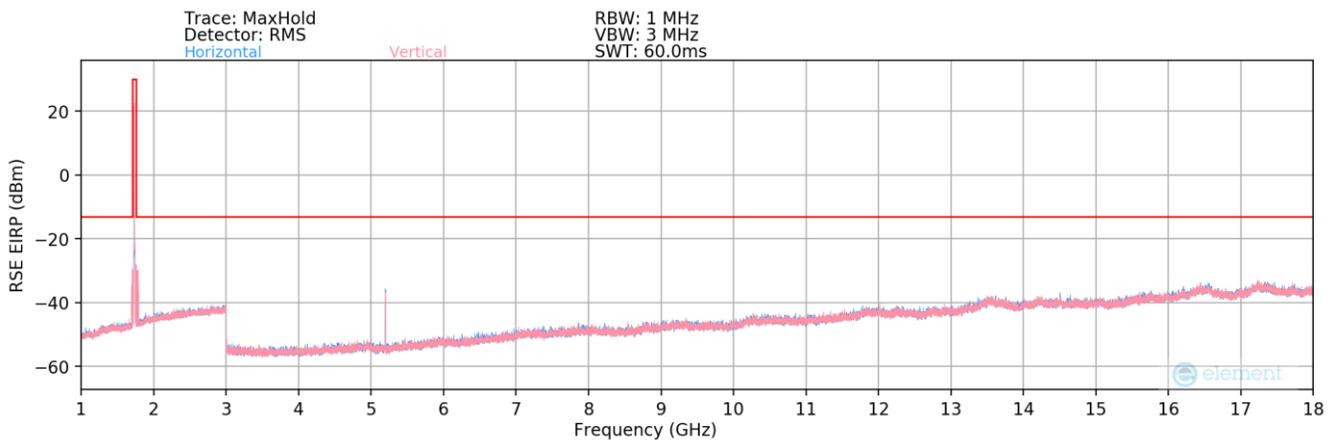
Table 7-54. Radiated Spurious Data (LTE Band 66/4 – High Channel – Ant B – Open)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 274 of 312

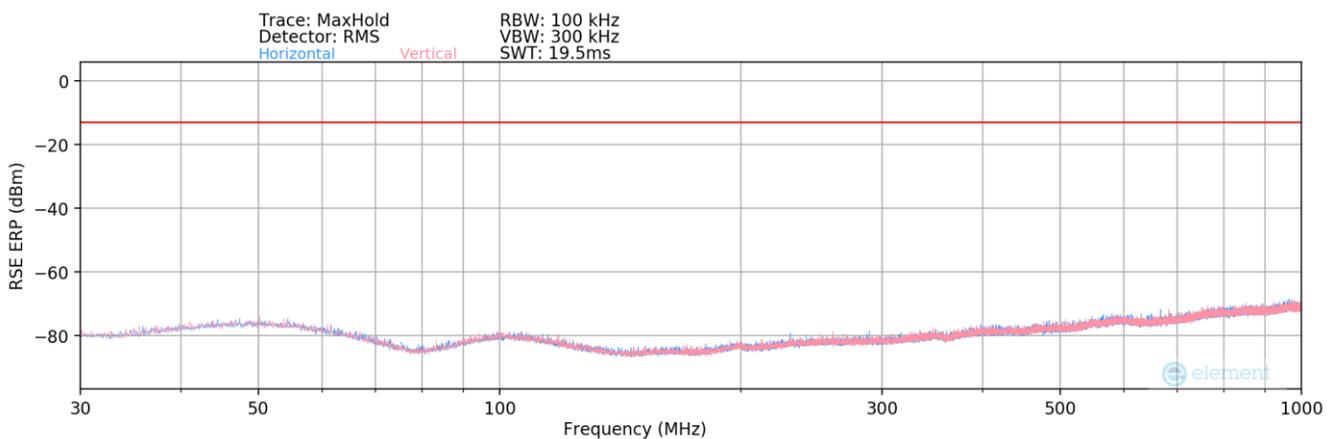
NR Band n66 – Ant B



Plot 7-456. Radiated Spurious Plot (NR Band n66 – Ant B - Open)



Plot 7-457. Radiated Spurious Plot (NR Band n66 – Ant B – Closed)



Plot 7-458. Radiated Spurious Plot (NR Band n66 – Ant B – Closed – Below 1GHz)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 275 of 312



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

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]
101.7	H	-	-	-72.12	-16.41	18.47	-78.93	-13.00	-65.93

Table 7-55. Radiated Spurious Data <1GHz (NR Band n66 – Mid Channel – Ant B)

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

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]
3460.0	H	356	60	-71.97	2.77	37.80	-57.46	-13.00	-44.46
5190.0	H	123	150	-49.18	5.23	63.05	-32.21	-13.00	-19.21
6920.0	H	187	7	-77.95	7.73	36.78	-58.48	-13.00	-45.48
8650.0	V	125	18	-76.15	8.88	39.73	-55.52	-13.00	-42.52
10380.0	H	-	-	-80.39	11.29	37.90	-57.36	-13.00	-44.36
12110.0	H	-	-	-80.06	13.94	40.88	-54.38	-13.00	-41.38

Table 7-56. Radiated Spurious Data (NR Band n66 – Low Channel – Ant B)

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

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]
3490.0	H	400	44	-75.29	2.69	34.40	-60.86	-13.00	-47.86
5235.0	H	124	147	-48.50	5.03	63.53	-31.73	-13.00	-18.73
6980.0	H	192	359	-77.13	7.16	37.03	-58.23	-13.00	-45.23
8725.0	V	121	13	-73.56	8.55	41.99	-53.26	-13.00	-40.26
10470.0	H	-	-	-80.54	11.64	38.10	-57.16	-13.00	-44.16
12215.0	H	-	-	-79.95	13.70	40.75	-54.51	-13.00	-41.51

Table 7-57. Radiated Spurious Data (NR Band n66 – Mid Channel – Ant B)

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

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]
3520.0	H	396	59	-72.93	2.47	36.54	-58.72	-13.00	-45.72
5280.0	H	119	152	-49.53	5.00	62.47	-32.79	-13.00	-19.79
7040.0	H	192	359	-76.71	7.20	37.49	-57.77	-13.00	-44.77
8800.0	V	126	15	-75.28	8.31	40.03	-55.23	-13.00	-42.23
10560.0	H	-	-	-80.58	11.84	38.26	-56.99	-13.00	-43.99
12320.0	H	-	-	-80.16	13.46	40.30	-54.95	-13.00	-41.95

Table 7-58. Radiated Spurious Data (NR Band n66 – High Channel – Ant B)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 276 of 312



Case:	w/ Wireless Charging Pad
Bandwidth (MHz):	1745
Frequency (MHz):	40
RB / Offset:	1 / 108

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]
3490.0	H	382	233	-73.51	2.69	36.18	-59.08	-13.00	-46.08
5235.0	H	317	22	-54.40	5.03	57.63	-37.63	-13.00	-24.63
6980.0	H	-	-	-78.32	7.16	35.84	-59.42	-13.00	-46.42
8725.0	H	-	-	-79.40	8.55	36.15	-59.10	-13.00	-46.10
10470.0	H	-	-	-80.55	11.64	38.09	-57.17	-13.00	-44.17

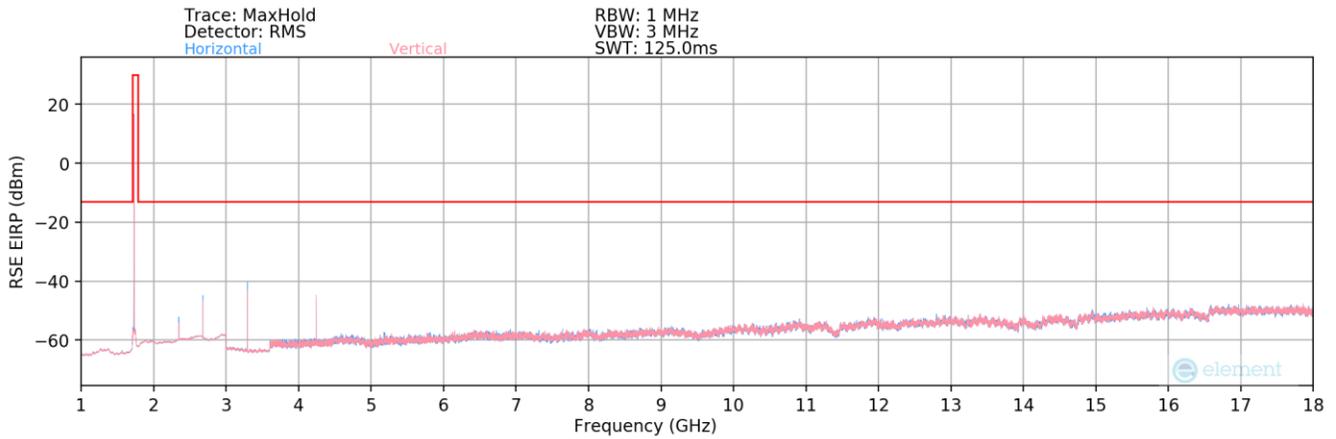
Table 7-59. Radiated Spurious Data with WCP (NR Band n66 – Ant B)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 277 of 312

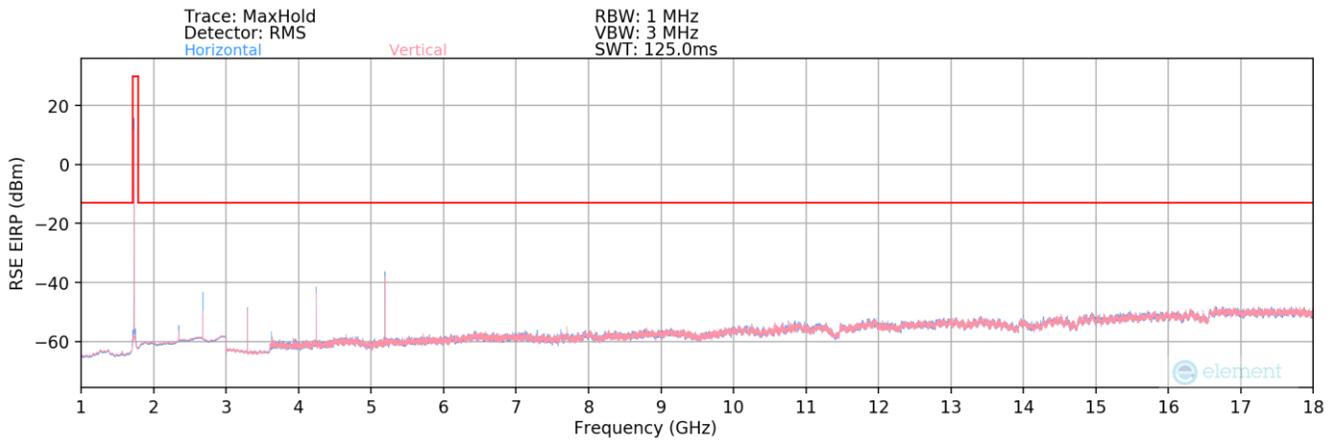
V3.0 1/5/2022

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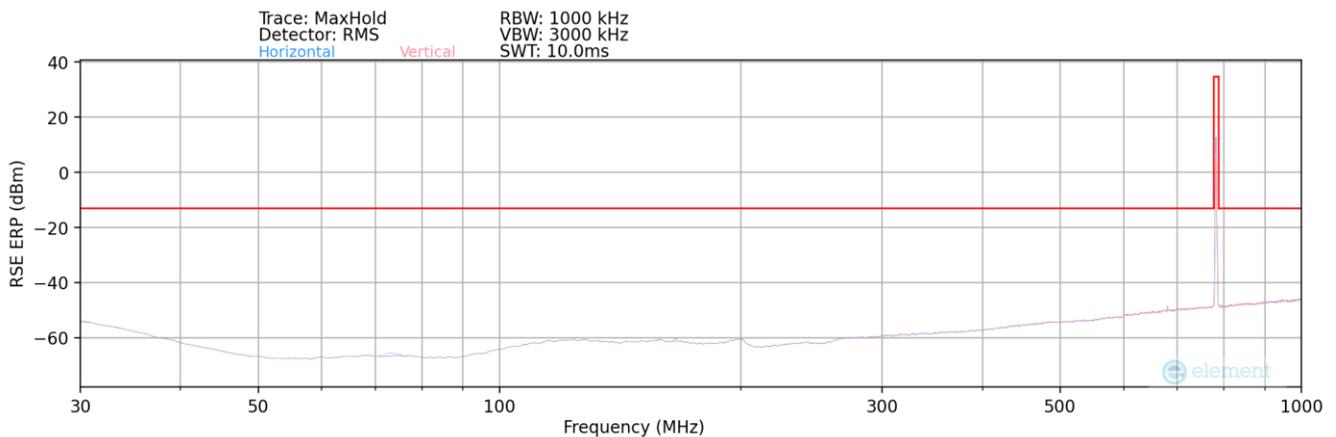
EN-DC n66 (Ant B) – Band 13



Plot 7-459. Radiated Spurious Plot (NR n66 (Ant B) – Band 13 – Open)



Plot 7-460. Radiated Spurious Plot (NR n66 (Ant B) – Band 13 – Closed)



Plot 7-461. Radiated Spurious Plot (NR n66 (Ant B) – Band 13 – Closed – Below 1GHz)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 278 of 312



Case:	n66 + B13
Bandwidth (MHz):	40 / 10
Frequency (MHz):	1745 / 782
RB / Offset:	1/108 & 1/25
Mode:	EN-DC
Anchor Band:	B13

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]
680.0	H	124	175	-96.00	28.28	39.28	-55.97	-13.00	-42.97
2346.0	H	-	-	-79.50	0.64	28.14	-67.12	-13.00	-54.12
2766.0	H	-	-	-78.66	0.49	28.83	-66.43	-13.00	-53.43
3490.0	H	111	201	-68.24	2.69	41.45	-53.81	-13.00	-40.81
4272.0	H	131	183	-55.00	3.43	55.43	-39.83	-13.00	-26.83
5235.0	H	121	212	-58.08	5.03	53.95	-41.31	-13.00	-28.31

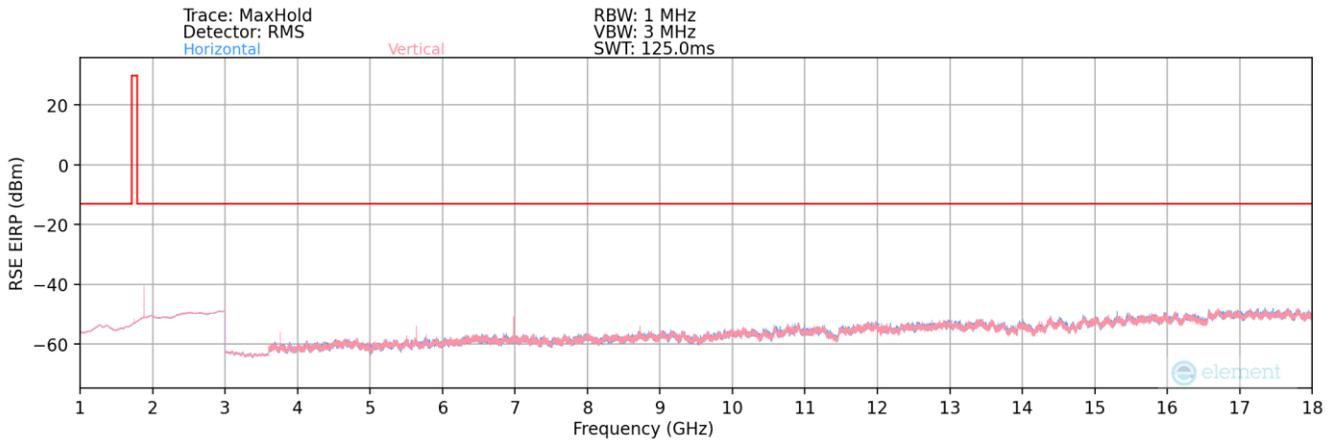
Table 7-60. Radiated Spurious Data (NR Band n66 (Ant B) – Band 13 – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 279 of 312

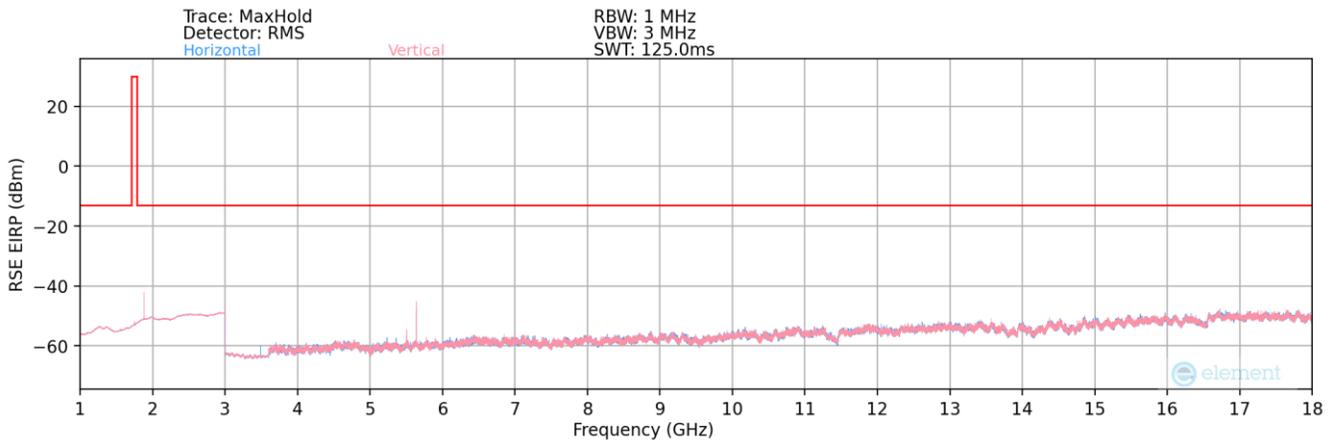
V3.0 1/5/2022

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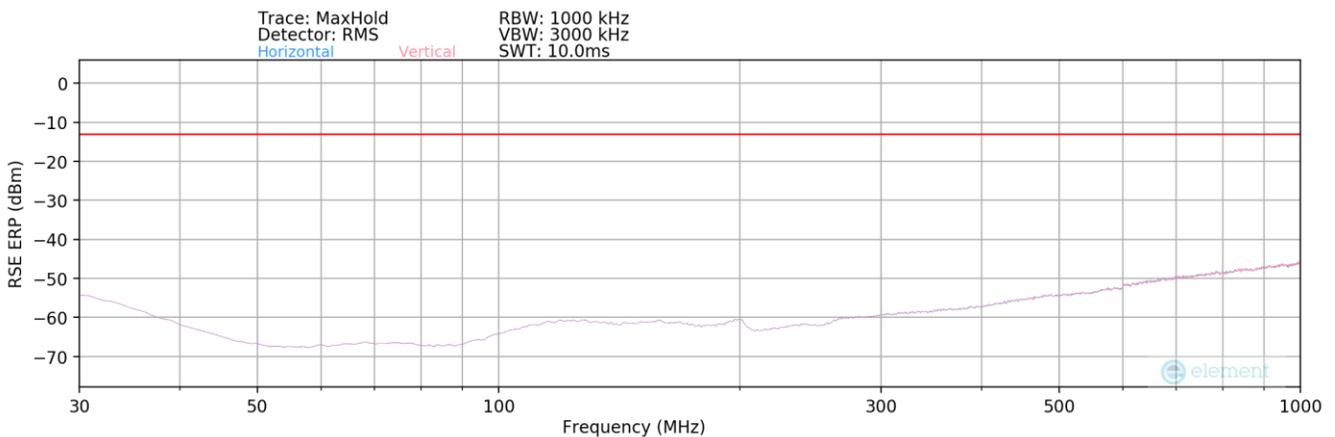
EN-DC n66 (Ant B) – Band 2



Plot 7-462. Radiated Spurious Plot (NR n66 (Ant B) – Band 2 – Open)



Plot 7-463. Radiated Spurious Plot (NR n66 (Ant B) – Band 2 – Closed)



Plot 7-464. Radiated Spurious Plot (NR n66 (Ant B) – Band 2 – Closed – Below 1GHz)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 280 of 312



Case:	n66 + B2
Bandwidth (MHz):	40 / 20
Frequency (MHz):	1745 / 1880
RB / Offset:	1 / 108 & 1 / 50
Mode:	EN-DC
Anchor Band:	B2

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]
3490.0	H	353	123	-71.31	2.69	38.38	-56.88	-13.00	-43.88
3760.0	H	145	140	-73.67	3.16	36.49	-58.76	-13.00	-45.76
5640.0	H	123	241	-54.77	5.52	57.75	-37.51	-13.00	-24.51
5775.0	H	-	-	-75.44	5.54	37.10	-58.16	-13.00	-45.16

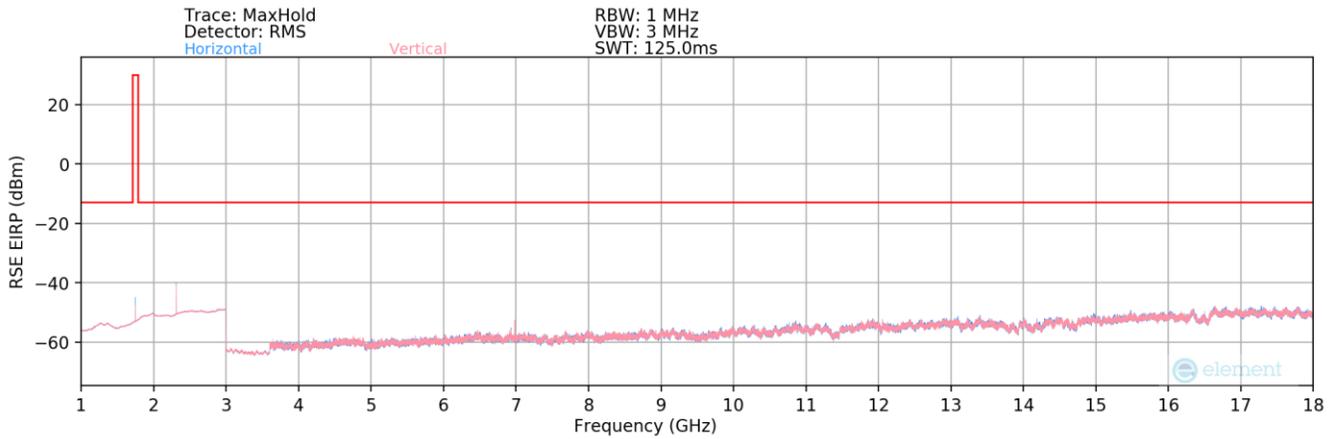
Table 7-61. Radiated Spurious Data (NR Band n66 (Ant B) – Band 2 – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 281 of 312

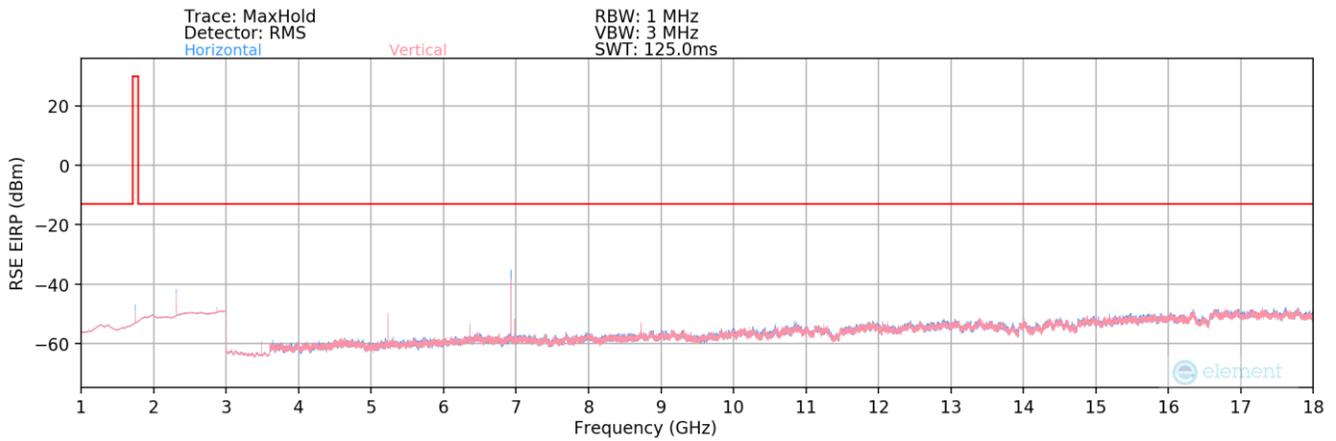
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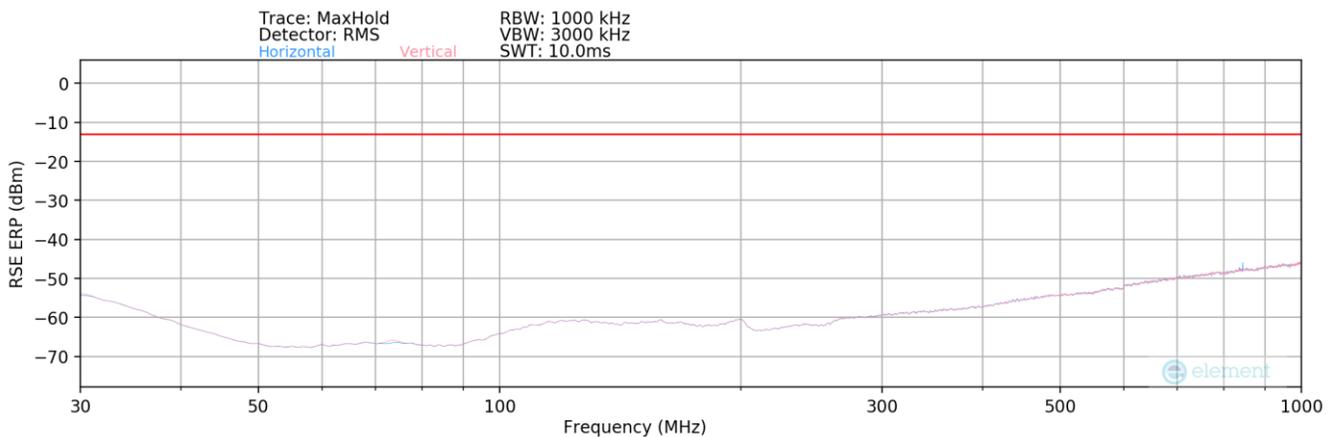
EN-DC n66 (Ant B) – Band 30



Plot 7-465. Radiated Spurious Plot (NR n66 (Ant B) – Band 30 – Open)



Plot 7-466. Radiated Spurious Plot (NR n66 (Ant B)– Band 30 – Closed)



Plot 7-467. Radiated Spurious Plot (NR n66 (Ant B)– Band 30 – Closed – Below 1GHz)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 282 of 312



Case:	n66 + B30
Bandwidth (MHz):	40 / 10
Frequency (MHz):	1745 / 2310
RB / Offset:	1 / 108 & 1 / 25
Mode:	EN-DC
Anchor Band:	B30

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]
850.0	H	-	-	-91.22	30.94	46.72	-48.54	-13.00	-35.54
3490.0	H	294	238	-67.91	2.69	41.78	-53.48	-13.00	-40.48
5185.0	H	-	-	-74.33	5.16	37.83	-57.43	-13.00	-44.43
5235.0	H	-	-	-69.66	5.03	42.37	-52.89	-13.00	-39.89
6930.0	H	397	76	-58.04	7.75	56.71	-38.55	-13.00	-25.55

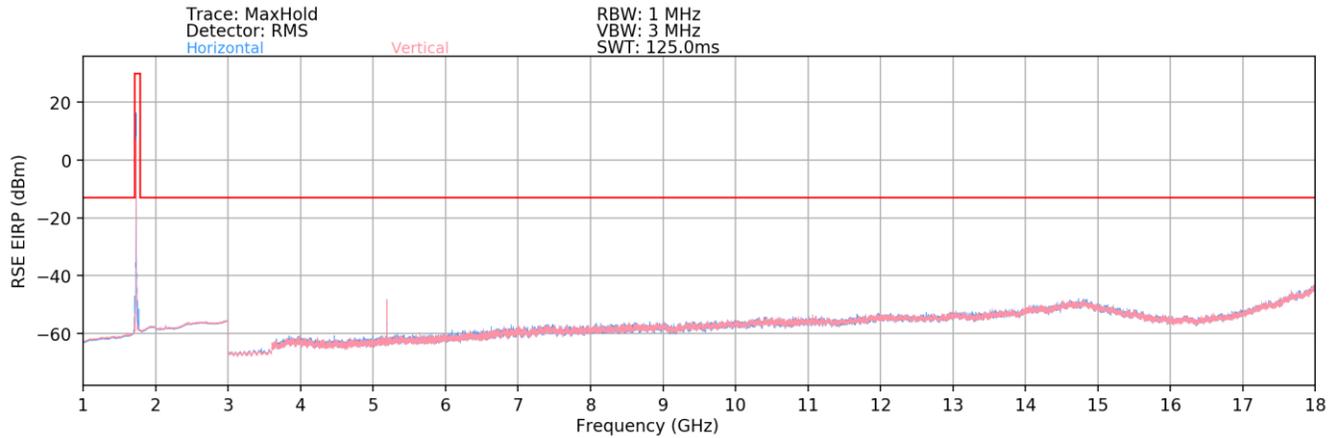
Table 7-62. Radiated Spurious Data (NR Band n66 (Ant B) – Band 30 – Closed)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 283 of 312

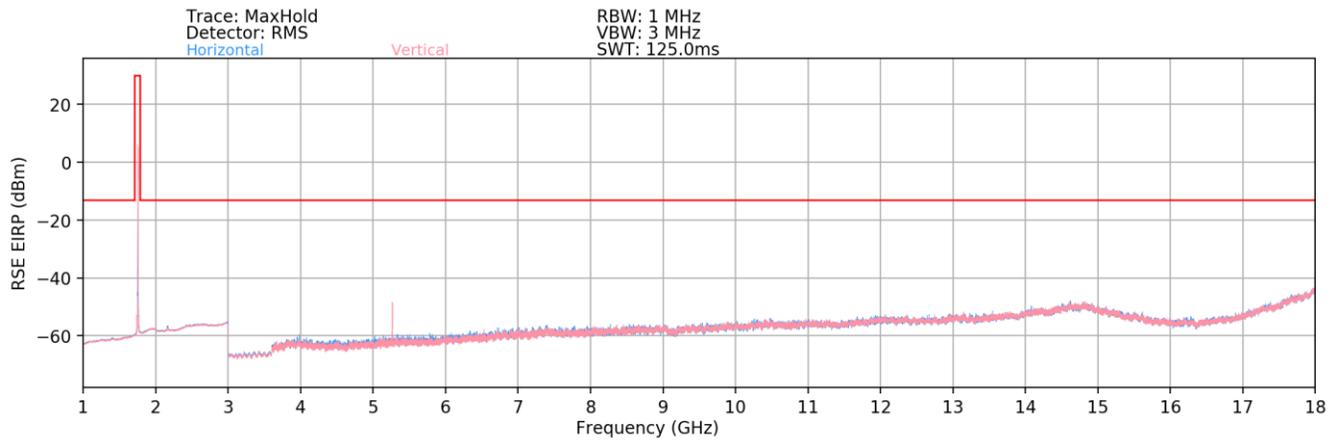
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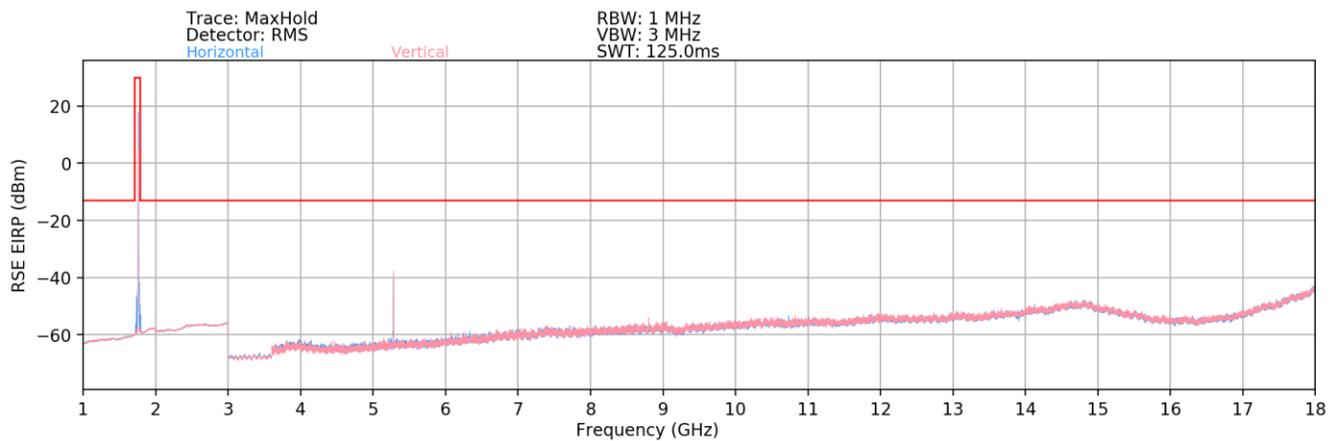
Uplink CA LTE Band 66/C – Ant B



Plot 7-468. Radiated Spurious Plot (ULCA LTE Band 66 – Low Channel – Ant B)

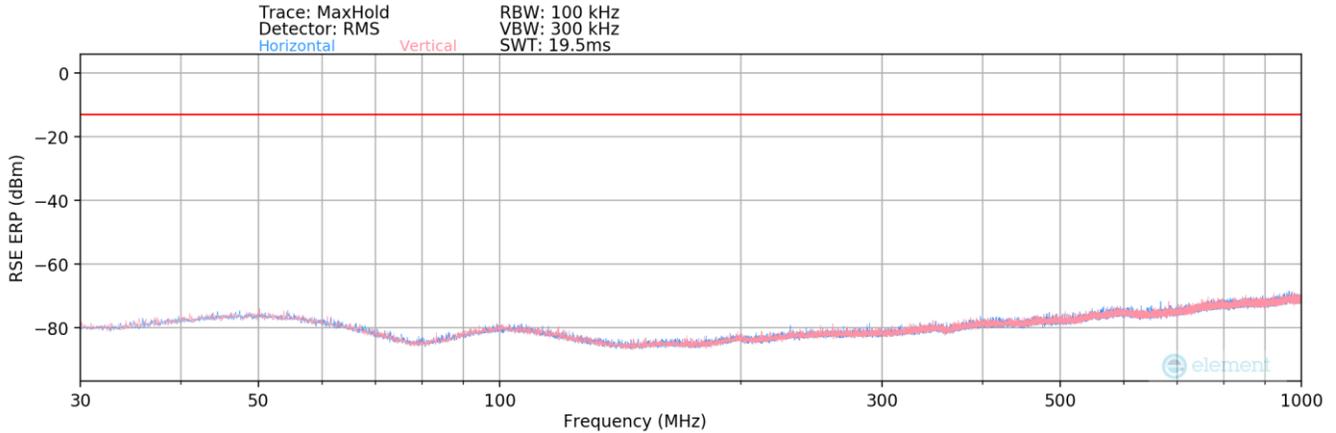


Plot 7-469. Radiated Spurious Plot (ULCA LTE Band 66 – Mid Channel – Ant B)



Plot 7-470. Radiated Spurious Plot (ULCA LTE Band 66 – High Channel – Ant B)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 284 of 312



Plot 7-471. Radiated Spurious Plot ((ULCA LTE Band 66 – High Channel – Ant B – Below 1GHz)

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]
67.0	V	-	-	-92.26	14.39	29.13	-68.27	-13.00	-55.27
210.0	V	-	-	-91.65	17.41	32.76	-64.65	-13.00	-51.65
322.0	V	-	-	-91.52	21.31	36.79	-60.62	-13.00	-47.62
501.0	V	-	-	-91.40	25.48	41.08	-56.33	-13.00	-43.33

Table 7-63. Radiated Spurious Data <1GHz (ULCA LTE66 – High Channel – Ant B)

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]
3440.0	V	-	-	-76.26	-0.52	30.22	-65.04	-13.00	-52.04
5160.0	V	111	326	-61.13	2.11	47.98	-47.28	-13.00	-34.28
6880.0	V	-	-	-78.09	5.79	34.70	-60.56	-13.00	-47.56
8600.0	V	-	-	-79.27	8.93	36.66	-58.59	-13.00	-45.59
10320.0	V	-	-	-80.41	11.73	38.32	-56.94	-13.00	-43.94

7-64. Radiated Spurious Data (ULCA LTE66 – Low Channel – Ant B)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 285 of 312



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]
3490.0	V	-	-	-75.24	-1.08	30.68	-64.57	-13.00	-51.57
5235.0	V	115	323	-60.62	2.23	48.61	-46.64	-13.00	-33.64
6980.0	V	124	258	-77.53	6.85	36.32	-58.93	-13.00	-45.93
8725.0	V	-	-	-80.46	8.99	35.53	-59.72	-13.00	-46.72
10470.0	V	-	-	-81.32	11.52	37.20	-58.06	-13.00	-45.06
12215.0	V	-	-	-80.81	12.49	38.68	-56.58	-13.00	-43.58

Table 7-65. Radiated Spurious Data (ULCA LTE66 – Mid Channel – Ant B)

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]
3540.0	V	-	-	-77.73	-0.66	28.61	-66.65	-13.00	-53.65
5310.0	V	107	45	-52.91	2.89	56.98	-38.27	-13.00	-25.27
7080.0	V	-	-	-80.15	6.51	33.36	-61.90	-13.00	-48.90
8850.0	V	394	48	-75.19	8.74	40.55	-54.70	-13.00	-41.70
10620.0	V	-	-	-80.44	11.44	38.00	-57.26	-13.00	-44.26
12390.0	V	-	-	-80.52	12.73	39.21	-56.05	-13.00	-43.05
14160.0	V	-	-	-80.16	15.43	42.27	-52.98	-13.00	-39.98

Table 7-66. Radiated Spurious Data (ULCA LTE66 – High Channel – Ant B)

FCC ID: A3LSMF936U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2204010046-05.A3L	Test Dates: 4/4/2022 - 6/21/2022	EUT Type: Portable Handset	Page 286 of 312