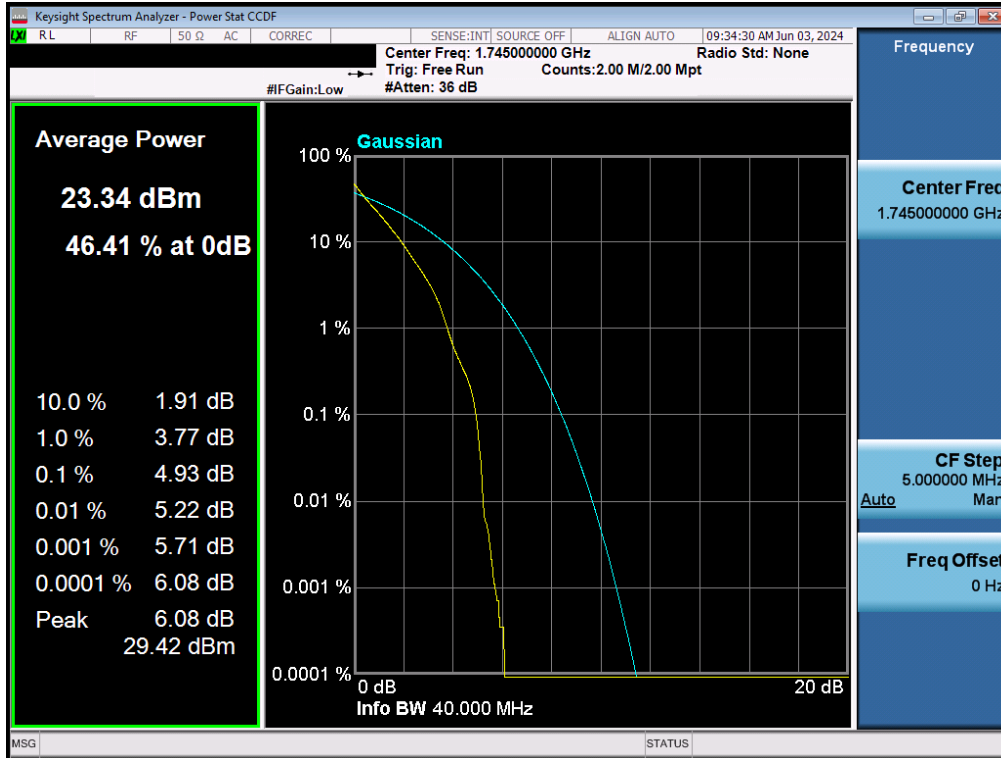
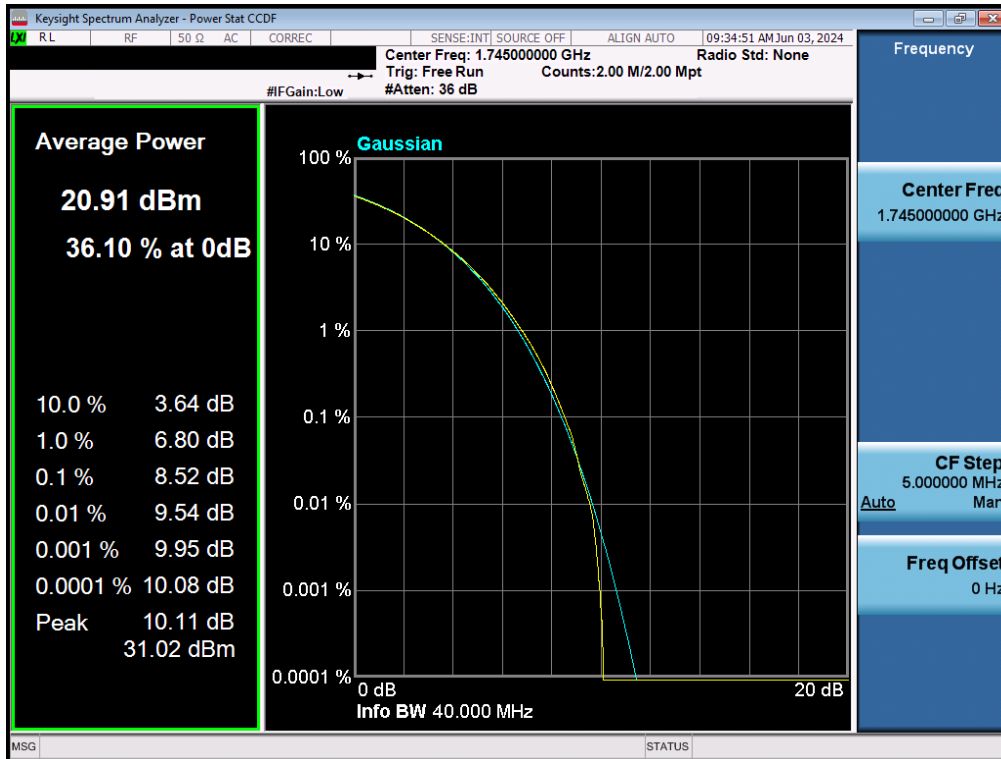


NR Band n66 – ANT1

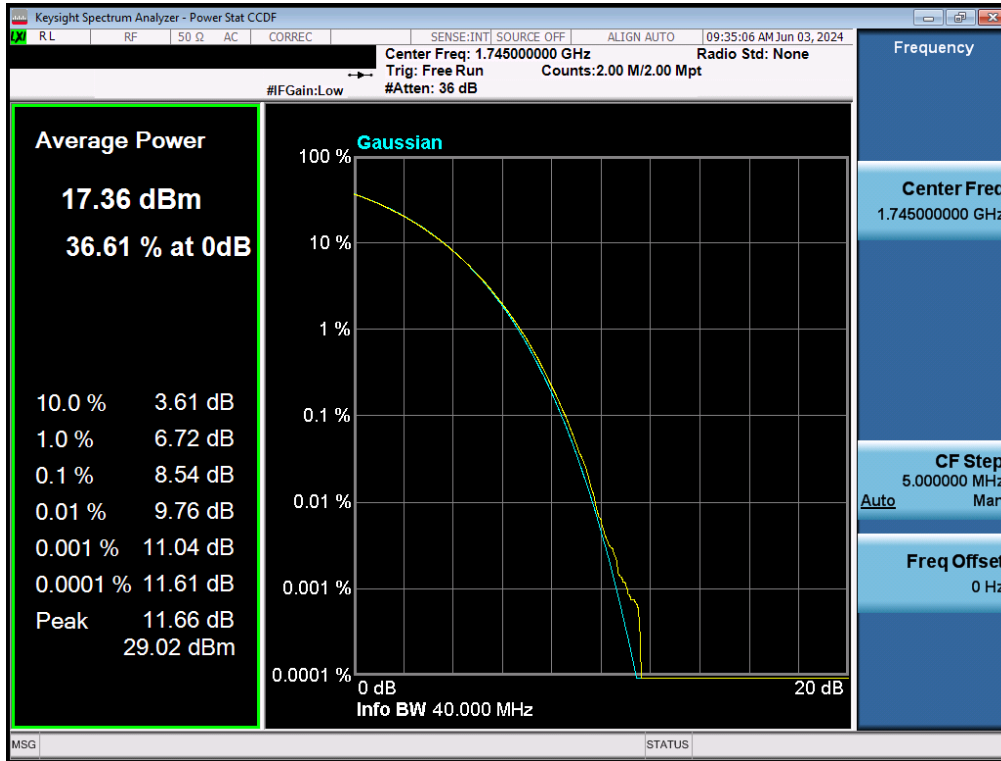


Plot 7-180. PAR Plot (NR Band n66 - 40.0MHz DFT-s-OFDM $\pi/2$ BPSK - Full RB - ANT1)



Plot 7-181. PAR Plot (NR Band n66 - 40.0MHz CP-OFDM QPSK - Full RB - ANT1)

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Plot 7-182. PAR Plot (NR Band n66 - 40.0MHz CP-OFDM 256-QAM - Full RB - ANT1)

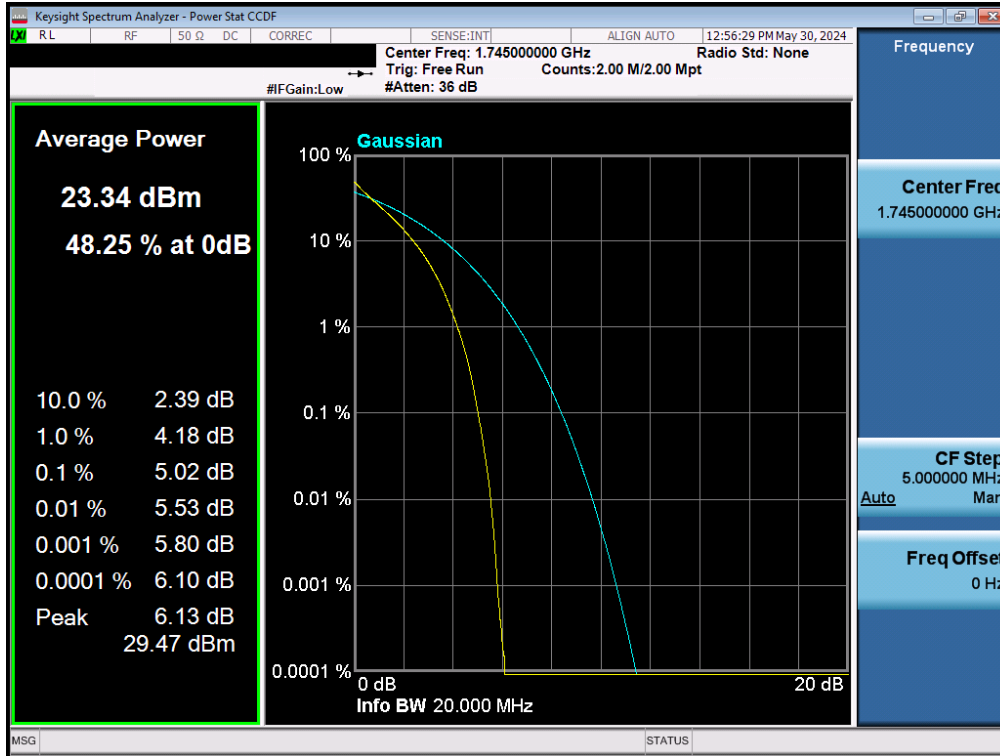
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Mode	Bandwidth	Modulation	Average Power [dBm]	PAR at 0.1% [dB]	PAR Limit [dB]	Margin [dB]
LTE-B66-4	20MHz	QPSK	23.34	5.02	13	-7.98
		256QAM	22.13	5.94	13	-7.06
	15MHz	QPSK	23.34	5.09	13	-7.91
		256QAM	23.17	8.38	13	-4.62
	10MHz	QPSK	23.40	5.17	13	-7.83
		256QAM	22.07	8.40	13	-4.60
	5MHz	QPSK	23.38	5.13	13	-7.87
		256QAM	22.04	5.93	13	-7.07
	3MHz	QPSK	23.30	5.18	13	-7.82
		256QAM	22.12	7.89	13	-5.11
	1.4MHz	QPSK	23.04	5.32	13	-7.68
		256QAM	22.10	7.90	13	-5.10

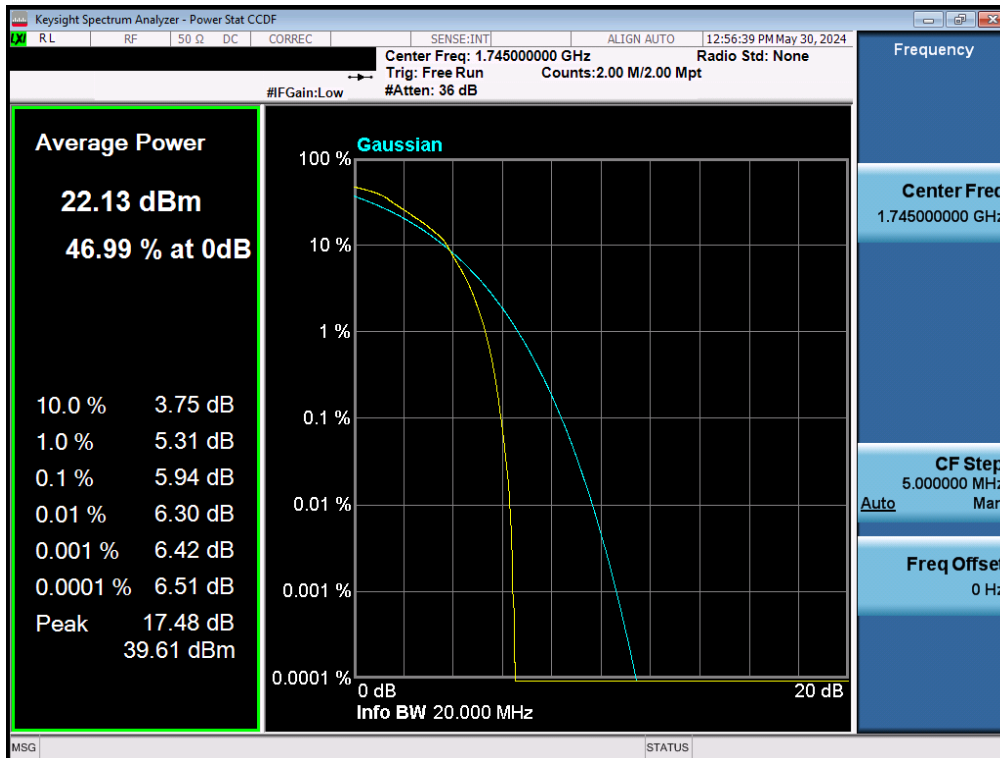
Table 7-28. Peak-Average Ratio Results – Ant2

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LTE Band 66/4 – ANT2



Plot 7-183. PAR Plot (LTE Band 66/4 - 20MHz QPSK - Full RB - ANT2)



Plot 7-184. PAR Plot (LTE Band 66/4 - 20MHz 256-QAM - Full RB - ANT2)

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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.

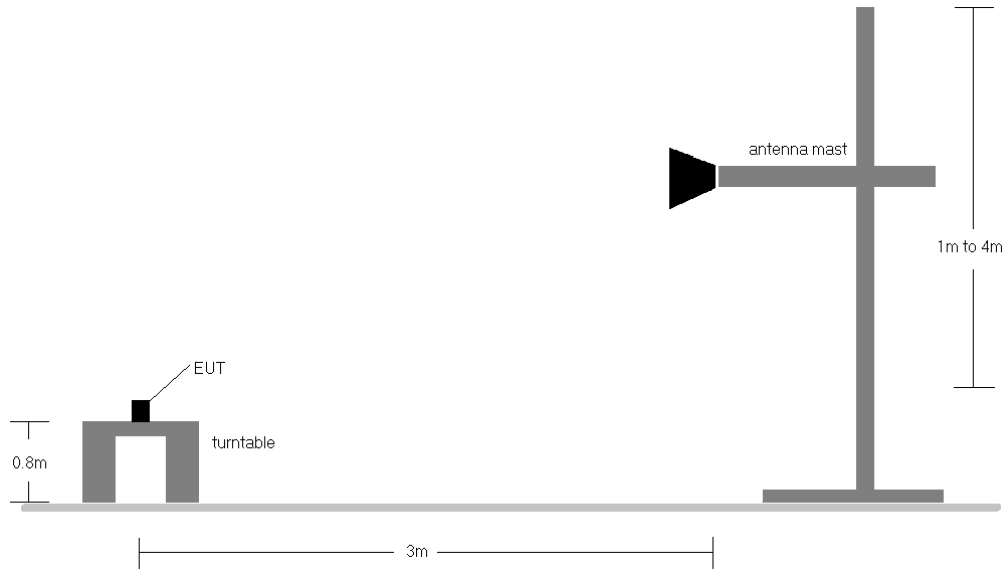


Figure 7-6. Radiated Test Setup <1GHz

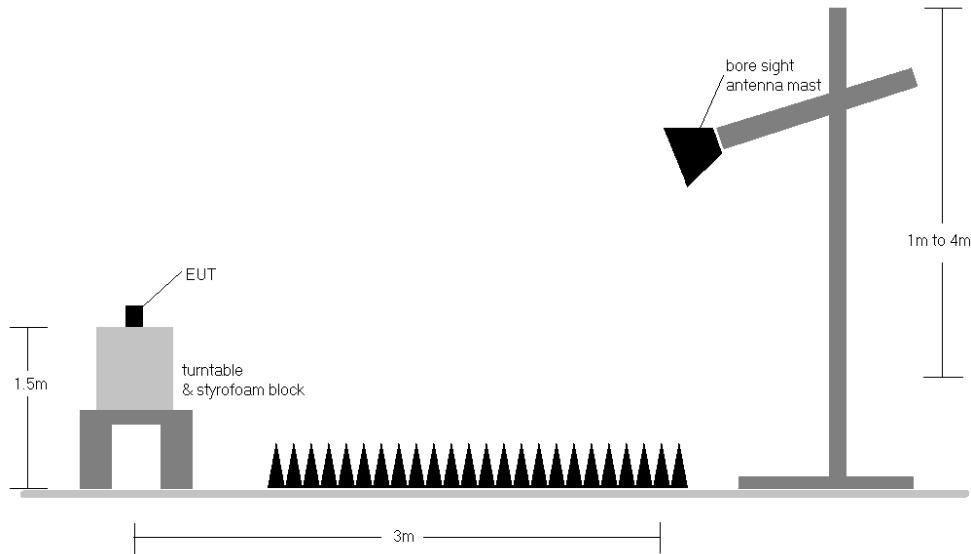


Figure 7-7. Radiated Test Setup >1GHz

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]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	QPSK	673.00	H	104	366	0.69	1 / 50	21.81	20.35	0.108	34.77	-14.42
	QPSK	680.50	H	104	359	0.81	1 / 50	22.38	21.04	0.127	34.77	-13.73
	QPSK	688.00	H	107	363	0.93	1 / 0	22.25	21.03	0.127	34.77	-13.74
	16-QAM	680.50	H	104	359	0.81	1 / 50	21.61	20.27	0.106	34.77	-14.50
15 MHz	QPSK	670.50	H	104	366	0.65	1 / 0	21.81	20.31	0.107	34.77	-14.46
	QPSK	680.50	H	104	359	0.81	1 / 0	22.29	20.95	0.124	34.77	-13.82
	QPSK	690.50	H	107	363	0.97	1 / 0	22.21	21.03	0.127	34.77	-13.75
	16-QAM	680.50	H	104	359	0.81	1 / 0	21.45	20.11	0.103	34.77	-14.66
10 MHz	QPSK	668.00	H	104	366	0.61	1 / 0	21.98	20.44	0.111	34.77	-14.33
	QPSK	680.50	H	104	359	0.81	1 / 0	22.30	20.96	0.125	34.77	-13.81
	QPSK	693.00	H	107	363	1.01	1 / 0	22.12	20.98	0.125	34.77	-13.79
	16-QAM	693.00	H	107	363	1.01	1 / 0	21.21	20.07	0.102	34.77	-14.70
5 MHz	QPSK	665.50	H	104	366	0.57	1 / 0	21.88	20.30	0.107	34.77	-14.47
	QPSK	680.50	H	104	359	0.81	1 / 0	22.24	20.90	0.123	34.77	-13.87
	QPSK	695.50	H	107	363	1.05	1 / 0	22.28	21.18	0.131	34.77	-13.59
	16-QAM	695.50	H	107	363	1.05	1 / 0	21.09	19.99	0.100	34.77	-14.78
20 MHz	Opposite Pol.	680.50	V	155	70	0.71	1 / 0	22.28	20.84	0.121	34.77	-13.93

Table 7-185. ERP Data (LTE Band 71) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	704.00	H	105	369	1.14	1 / 49	22.55	21.54	0.143	34.77	-13.23
	QPSK	707.50	H	102	360	1.16	1 / 25	23.21	22.22	0.167	34.77	-12.55
	QPSK	711.00	H	103	363	1.17	1 / 25	23.12	22.14	0.164	34.77	-12.63
	16-QAM	711.00	H	103	363	1.17	1 / 25	22.50	21.52	0.142	34.77	-13.25
5 MHz	QPSK	701.50	H	105	369	1.13	1 / 0	22.76	21.74	0.149	34.77	-13.03
	QPSK	707.50	H	102	360	1.16	1 / 0	23.14	22.15	0.164	34.77	-12.63
	QPSK	713.50	H	103	363	1.19	1 / 0	22.81	21.84	0.153	34.77	-12.93
	16-QAM	707.50	H	102	360	1.16	1 / 0	22.58	21.59	0.144	34.77	-13.18
3 MHz	QPSK	700.50	H	105	369	1.12	1 / 0	22.55	21.52	0.142	34.77	-13.25
	QPSK	707.50	H	102	360	1.16	1 / 7	23.02	22.02	0.159	34.77	-12.75
	QPSK	714.50	H	103	363	1.19	1 / 7	22.55	21.59	0.144	34.77	-13.18
	16-QAM	707.50	H	102	360	1.16	1 / 7	22.43	21.44	0.139	34.77	-13.33
1.4 MHz	QPSK	699.70	H	105	369	1.12	1 / 0	22.66	21.63	0.145	34.77	-13.15
	QPSK	707.50	H	102	360	1.16	1 / 0	23.28	22.29	0.169	34.77	-12.48
	QPSK	715.30	H	103	363	1.20	1 / 0	22.45	21.49	0.141	34.77	-13.28
	16-QAM	707.50	H	102	360	1.16	1 / 3	22.57	21.58	0.144	34.77	-13.19
10 MHz	Opposite Pol.	707.50	V	102	105	1.14	1 / 25	22.42	21.41	0.138	34.77	-13.36

Table 7-186. ERP Data (LTE Band 12) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
10 MHz	QPSK	782.00	V	140	69	0.89	1 / 25	22.97	21.71	0.148	34.77	-13.06
	16-QAM	782.00	V	140	69	0.89	1 / 25	22.22	20.96	0.125	34.77	-13.81
5 MHz	QPSK	779.50	V	140	69	0.94	1 / 12	23.04	21.83	0.152	34.77	-12.95
	QPSK	782.00	V	140	69	0.89	1 / 12	23.05	21.79	0.151	34.77	-12.98
	QPSK	784.50	V	140	69	0.85	1 / 0	23.14	21.84	0.153	34.77	-12.93
	16-QAM	782.00	V	140	69	0.89	1 / 12	22.54	21.28	0.134	34.77	-13.49
10 MHz	Opposite Pol.	782.00	H	205	4	1.09	1 / 25	21.52	20.46	0.111	34.77	-14.31

Table 7-187. ERP Data (LTE Band 13) – Ant1

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	231	106	19.36	2.89	22.25	0.168	30.00	-7.75
1732.60	WCDMA1700	H	179	124	18.78	2.86	21.64	0.146	30.00	-8.36
1752.60	WCDMA1700	H	136	106	17.92	2.83	20.75	0.119	30.00	-9.25

Table 7-188. EIRP Data (WCDMA AWS) – Ant1

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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]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
20 MHz	$\pi/2$ BPSK	673.00	V	165	86	0.56	1 / 104	20.92	19.33	0.086	34.77	-15.44
	$\pi/2$ BPSK	680.50	V	156	90	0.71	1 / 104	21.36	19.92	0.098	34.77	-14.85
	$\pi/2$ BPSK	688.00	V	165	126	0.86	1 / 53	21.56	20.27	0.106	34.77	-14.51
	QPSK	673.00	V	165	86	0.56	1 / 104	20.92	19.33	0.086	34.77	-15.44
	QPSK	680.50	V	156	90	0.71	1 / 104	21.20	19.76	0.095	34.77	-15.01
	QPSK	688.00	V	165	126	0.86	1 / 53	21.50	20.21	0.105	34.77	-14.57
15 MHz	16-QAM	688.00	V	165	126	0.86	1 / 53	20.51	19.22	0.083	34.77	-15.56
	$\pi/2$ BPSK	670.50	V	165	86	0.51	1 / 1	20.97	19.33	0.086	34.77	-15.44
	$\pi/2$ BPSK	680.50	V	156	90	0.71	1 / 1	21.35	19.91	0.098	34.77	-14.86
	$\pi/2$ BPSK	690.50	V	165	126	0.90	1 / 1	21.35	20.10	0.102	34.77	-14.67
	QPSK	670.50	V	165	86	0.51	1 / 1	20.96	19.32	0.086	34.77	-15.45
	QPSK	680.50	V	156	90	0.71	1 / 1	21.04	19.60	0.091	34.77	-15.18
10 MHz	QPSK	690.50	V	165	126	0.90	1 / 1	21.28	20.03	0.101	34.77	-14.74
	16-QAM	690.50	V	165	126	0.90	1 / 1	20.21	18.97	0.079	34.77	-15.80
	$\pi/2$ BPSK	668.00	V	165	86	0.46	1 / 1	21.02	19.33	0.086	34.77	-15.44
	$\pi/2$ BPSK	680.50	V	156	90	0.71	1 / 1	21.28	19.84	0.096	34.77	-14.93
	$\pi/2$ BPSK	693.00	V	165	126	0.95	1 / 26	21.36	20.17	0.104	34.77	-14.61
	QPSK	668.00	V	165	86	0.46	1 / 1	20.99	19.31	0.085	34.77	-15.47
5 MHz	QPSK	680.50	V	156	90	0.71	1 / 1	20.92	19.48	0.089	34.77	-15.29
	QPSK	693.00	V	165	126	0.95	1 / 50	21.09	19.89	0.097	34.77	-14.88
	16-QAM	693.00	V	165	126	0.95	1 / 26	20.02	18.82	0.076	34.77	-15.95
	$\pi/2$ BPSK	665.50	V	165	86	0.41	1 / 12	20.97	19.23	0.084	34.77	-15.54
	$\pi/2$ BPSK	680.50	V	156	90	0.71	1 / 1	21.02	19.58	0.091	34.77	-15.20
	$\pi/2$ BPSK	695.50	V	165	126	1.00	1 / 1	21.18	20.03	0.101	34.77	-14.74
20 MHz	QPSK	665.50	V	165	86	0.41	1 / 12	21.02	19.28	0.085	34.77	-15.49
	QPSK	680.50	V	156	90	0.71	1 / 12	20.82	19.38	0.087	34.77	-15.39
	QPSK	695.50	V	165	126	1.00	1 / 1	21.09	19.94	0.099	34.77	-14.83
	16-QAM	695.50	V	165	126	1.00	1 / 1	19.92	18.77	0.075	34.77	-16.01
	QPSK (CP-OFDM)	688.00	V	163	131	0.71	1 / 53	20.11	18.67	0.074	34.77	-16.10

Table 7-189. EIRP Data (NR Band n71) – Ant1

Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
15 MHz	$\pi/2$ BPSK	706.50	V	169	98	1.14	1 / 77	22.21	21.20	0.132	34.77	-13.57
	$\pi/2$ BPSK	707.50	V	149	53	1.14	1 / 77	23.23	22.22	0.167	34.77	-12.55
	$\pi/2$ BPSK	708.50	V	146	53	1.15	1 / 77	23.22	22.22	0.167	34.77	-12.55
	QPSK	706.50	V	169	98	1.14	1 / 77	22.28	21.27	0.134	34.77	-13.50
	QPSK	707.50	V	149	53	1.14	1 / 77	23.26	22.25	0.168	34.77	-12.52
	QPSK	708.50	V	146	53	1.15	1 / 77	23.28	22.28	0.169	34.77	-12.49
10 MHz	16-QAM	708.50	V	146	53	1.15	1 / 77	22.33	21.33	0.136	34.77	-13.44
	$\pi/2$ BPSK	704.00	V	169	98	1.12	1 / 26	22.25	21.22	0.132	34.77	-13.55
	$\pi/2$ BPSK	707.50	V	149	53	1.14	1 / 26	23.30	22.29	0.169	34.77	-12.48
	$\pi/2$ BPSK	711.00	V	146	53	1.17	1 / 1	22.97	21.99	0.158	34.77	-12.78
	QPSK	704.00	V	169	98	1.12	1 / 1	22.38	21.35	0.136	34.77	-13.42
	QPSK	707.50	V	149	53	1.14	1 / 26	23.29	22.28	0.169	34.77	-12.49
5 MHz	QPSK	711.00	V	146	53	1.17	1 / 1	23.46	22.49	0.177	34.77	-12.28
	16-QAM	711.00	V	146	53	1.17	1 / 1	22.34	21.36	0.137	34.77	-13.41
	$\pi/2$ BPSK	701.50	V	169	98	1.10	1 / 1	22.18	21.13	0.130	34.77	-13.65
	$\pi/2$ BPSK	707.50	V	149	53	1.14	1 / 12	23.32	22.31	0.170	34.77	-12.46
	$\pi/2$ BPSK	713.50	V	146	53	1.19	1 / 12	22.91	21.95	0.157	34.77	-12.82
	QPSK	701.50	V	169	98	1.10	1 / 1	22.20	21.14	0.130	34.77	-13.63
15 MHz	QPSK	707.50	V	149	53	1.14	1 / 12	23.29	22.28	0.169	34.77	-12.49
	QPSK	713.50	V	146	53	1.19	1 / 1	23.05	22.09	0.162	34.77	-12.68
	16-QAM	701.50	V	169	98	1.10	1 / 1	22.31	21.26	0.134	34.77	-13.51
	QPSK (CP-OFDM)	708.50	V	163	52	1.14	1 / 77	21.37	20.36	0.109	34.77	-14.41

Table 7-190. EIRP Data (NR Band n12) – Ant1

FCC ID: A3LSMX828U	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	1720.00	H	144	152	2.88	1 / 50	19.64	22.52	0.179	30.00	-7.48
	QPSK	1745.00	H	132	155	2.84	1 / 0	20.37	23.21	0.210	30.00	-6.79
	QPSK	1770.00	H	132	156	2.79	1 / 0	19.19	21.98	0.158	30.00	-8.02
	16-QAM	1720.00	H	144	152	2.88	1 / 50	19.68	22.56	0.180	30.00	-7.44
15 MHz	QPSK	1717.50	H	144	152	2.88	1 / 37	19.61	22.49	0.177	30.00	-7.51
	QPSK	1745.00	H	132	155	2.84	1 / 74	20.27	23.11	0.205	30.00	-6.89
	QPSK	1772.50	H	132	156	2.78	1 / 74	19.32	22.10	0.162	30.00	-7.90
	16-QAM	1717.50	H	144	152	2.88	1 / 37	19.98	22.86	0.193	30.00	-7.14
10 MHz	QPSK	1715.00	H	144	152	2.88	1 / 25	19.69	22.58	0.181	30.00	-7.42
	QPSK	1745.00	H	132	155	2.84	1 / 25	20.33	23.17	0.208	30.00	-6.83
	QPSK	1775.00	H	132	156	2.78	1 / 49	19.22	22.00	0.158	30.00	-8.00
	16-QAM	1715.00	H	144	152	2.88	1 / 25	19.92	22.80	0.191	30.00	-7.20
5 MHz	QPSK	1712.50	H	144	152	2.89	1 / 0	19.71	22.60	0.182	30.00	-7.40
	QPSK	1745.00	H	132	155	2.84	1 / 24	20.34	23.18	0.208	30.00	-6.82
	QPSK	1777.50	H	132	156	2.77	1 / 0	19.22	21.99	0.158	30.00	-8.01
	16-QAM	1712.50	H	144	152	2.89	1 / 0	20.00	22.88	0.194	30.00	-7.12
3 MHz	QPSK	1711.50	H	144	152	2.89	1 / 14	19.73	22.61	0.183	30.00	-7.39
	QPSK	1745.00	H	132	155	2.84	1 / 0	20.32	23.16	0.207	30.00	-6.84
	QPSK	1778.50	H	132	156	2.77	1 / 14	19.30	22.07	0.161	30.00	-7.93
	16-QAM	1711.50	H	144	152	2.89	1 / 14	19.77	22.66	0.185	30.00	-7.34
1.4 MHz	QPSK	1710.70	H	144	152	2.89	1 / 3	19.41	22.30	0.170	30.00	-7.70
	QPSK	1745.00	H	132	155	2.84	1 / 0	20.39	23.23	0.211	30.00	-6.77
	QPSK	1779.30	H	132	156	2.77	1 / 3	19.41	22.18	0.165	30.00	-7.82
	16-QAM	1710.70	H	144	152	2.89	1 / 5	19.81	22.70	0.186	30.00	-7.30
20 MHz	Opposite Pol.	1745.00	V	105	102	2.94	1 / 0	17.87	20.81	0.121	30.00	-9.19

Table 7-191. EIRP Data (LTE Band 66/4) – Ant1

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]
15 MHz	$\pi/2$ BPSK	1702.50	H	192	26	2.90	1 / 39	18.82	21.72	0.149	30.00	-8.28
	QPSK	1702.50	H	192	26	2.90	1 / 39	18.76	21.66	0.147	30.00	-8.34
	16-QAM	1702.50	H	192	26	2.90	1 / 39	17.83	20.73	0.118	30.00	-9.27
10 MHz	$\pi/2$ BPSK	1700.00	H	192	26	2.90	1 / 1	18.77	21.68	0.147	30.00	-8.32
	$\pi/2$ BPSK	1702.50	H	192	26	2.90	1 / 26	18.71	21.62	0.145	30.00	-8.38
	$\pi/2$ BPSK	1705.00	H	192	26	2.90	1 / 26	18.80	21.70	0.148	30.00	-8.30
	QPSK	1700.00	H	192	26	2.90	1 / 50	18.73	21.64	0.146	30.00	-8.36
	QPSK	1702.50	H	192	26	2.90	1 / 26	18.76	21.66	0.147	30.00	-8.34
	QPSK	1705.00	H	192	26	2.90	1 / 1	18.67	21.57	0.144	30.00	-8.43
5 MHz	16-QAM	1700.00	H	192	26	2.90	1 / 50	18.11	21.01	0.126	30.00	-8.99
	$\pi/2$ BPSK	1697.50	H	192	26	2.91	1 / 12	18.79	21.70	0.148	30.00	-8.30
	$\pi/2$ BPSK	1702.50	H	192	26	2.90	1 / 23	18.90	21.80	0.151	30.00	-8.20
	$\pi/2$ BPSK	1707.50	H	192	26	2.89	1 / 1	19.01	21.91	0.155	30.00	-8.09
	QPSK	1697.50	H	192	26	2.91	1 / 23	18.68	21.59	0.144	30.00	-8.41
	QPSK	1702.50	H	192	26	2.90	1 / 1	18.53	21.43	0.139	30.00	-8.57
	QPSK	1707.50	H	192	26	2.89	1 / 12	18.71	21.60	0.145	30.00	-8.40
15 MHz	16-QAM	1697.50	H	192	26	2.91	1 / 12	18.29	21.21	0.132	30.00	-8.79
	QPSK (CP-OFDM)	1702.50	H	156	149	2.90	1 / 1	17.22	20.12	0.103	30.00	-9.88

Table 7-192. EIRP Data (NR Band n70) – Ant1

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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	1730.00	H	194	25	2.86	1 / 1	19.83	22.69	0.186	30.00	-7.31
	$\pi/2$ BPSK	1745.00	H	182	27	2.84	1 / 1	19.97	22.81	0.191	30.00	-7.19
	$\pi/2$ BPSK	1760.00	H	222	21	2.81	1 / 1	18.96	21.77	0.150	30.00	-8.23
	QPSK	1730.00	H	194	25	2.86	1 / 1	19.90	22.76	0.189	30.00	-7.24
	QPSK	1745.00	H	182	27	2.84	1 / 1	20.00	22.84	0.192	30.00	-7.16
	QPSK	1760.00	H	222	21	2.81	1 / 1	18.86	21.67	0.147	30.00	-8.33
35 MHz	16-QAM	1745.00	H	182	27	2.84	1 / 1	18.84	21.68	0.147	30.00	-8.32
	$\pi/2$ BPSK	1725.00	H	194	25	2.86	1 / 186	19.60	22.47	0.177	30.00	-7.53
	$\pi/2$ BPSK	1745.00	H	182	27	2.84	1 / 1	19.57	22.41	0.174	30.00	-7.59
	$\pi/2$ BPSK	1765.00	H	222	21	2.81	1 / 94	18.10	20.92	0.123	30.00	-9.08
	QPSK	1725.00	H	194	25	2.86	1 / 94	19.35	22.21	0.166	30.00	-7.79
	QPSK	1745.00	H	182	27	2.84	1 / 94	19.60	22.44	0.175	30.00	-7.56
30 MHz	QPSK	1765.00	H	222	21	2.81	1 / 1	18.11	20.92	0.124	30.00	-9.08
	16-QAM	1745.00	H	182	27	2.84	1 / 94	18.58	21.43	0.139	30.00	-8.57
	$\pi/2$ BPSK	1725.00	H	194	25	2.86	1 / 80	19.70	22.56	0.181	30.00	-7.44
	$\pi/2$ BPSK	1745.00	H	182	27	2.84	1 / 80	20.05	22.89	0.195	30.00	-7.11
	$\pi/2$ BPSK	1765.00	H	222	21	2.81	1 / 80	18.87	21.69	0.147	30.00	-8.31
	QPSK	1725.00	H	194	25	2.86	1 / 80	20.01	22.87	0.194	30.00	-7.13
25 MHz	QPSK	1745.00	H	182	27	2.84	1 / 80	20.04	22.88	0.194	30.00	-7.12
	QPSK	1765.00	H	222	21	2.81	1 / 80	18.78	21.59	0.144	30.00	-8.41
	16-QAM	1745.00	H	182	27	2.84	1 / 80	19.07	21.91	0.155	30.00	-8.09
	$\pi/2$ BPSK	1722.5	H	194	25	2.86	1 / 104	19.80	22.67	0.185	30.00	-7.33
	$\pi/2$ BPSK	1745.0	H	182	27	2.84	1 / 104	20.01	22.85	0.193	30.00	-7.15
	$\pi/2$ BPSK	1767.5	H	222	21	2.81	1 / 104	18.81	21.62	0.145	30.00	-8.38
20 MHz	QPSK	1722.5	H	194	25	2.86	1 / 104	19.98	22.84	0.192	30.00	-7.16
	QPSK	1745.0	H	182	27	2.84	1 / 104	19.92	22.77	0.189	30.00	-7.23
	QPSK	1767.5	H	222	21	2.81	1 / 104	18.42	21.23	0.133	30.00	-8.77
	16-QAM	1745.0	H	182	27	2.84	1 / 104	18.75	21.60	0.144	30.00	-8.40
	$\pi/2$ BPSK	1720.00	H	194	25	2.86	1 / 104	19.80	22.66	0.185	30.00	-7.34
	$\pi/2$ BPSK	1745.00	H	182	27	2.84	1 / 104	20.09	22.94	0.197	30.00	-7.06
15 MHz	$\pi/2$ BPSK	1770.00	H	222	21	2.81	1 / 104	18.92	21.73	0.149	30.00	-8.27
	QPSK	1720.00	H	194	25	2.86	1 / 53	19.62	22.49	0.177	30.00	-7.51
	QPSK	1745.00	H	182	27	2.84	1 / 104	20.10	22.94	0.197	30.00	-7.06
	QPSK	1770.00	H	222	21	2.81	1 / 104	18.85	21.66	0.147	30.00	-8.34
	16-QAM	1745.00	H	182	27	2.84	1 / 104	19.04	21.88	0.154	30.00	-8.12
	$\pi/2$ BPSK	1717.50	H	194	25	2.86	1 / 39	19.83	22.69	0.186	30.00	-7.31
10 MHz	$\pi/2$ BPSK	1745.00	H	182	27	2.84	1 / 77	20.00	22.84	0.192	30.00	-7.16
	$\pi/2$ BPSK	1772.50	H	222	21	2.81	1 / 39	19.01	21.82	0.152	30.00	-8.18
	QPSK	1717.50	H	194	25	2.86	1 / 77	19.68	22.54	0.180	30.00	-7.46
	QPSK	1745.00	H	182	27	2.84	1 / 77	20.06	22.90	0.195	30.00	-7.10
	QPSK	1772.50	H	222	21	2.81	1 / 39	18.95	21.77	0.150	30.00	-8.23
	16-QAM	1745.00	H	182	27	2.84	1 / 39	18.88	21.72	0.149	30.00	-8.28
5 MHz	$\pi/2$ BPSK	1715.00	H	194	25	2.86	1 / 26	19.78	22.64	0.184	30.00	-7.36
	$\pi/2$ BPSK	1745.00	H	182	27	2.84	1 / 50	20.08	22.92	0.196	30.00	-7.08
	$\pi/2$ BPSK	1775.00	H	222	21	2.81	1 / 50	18.93	21.74	0.149	30.00	-8.26
	QPSK	1715.00	H	194	25	2.86	1 / 26	19.90	22.76	0.189	30.00	-7.24
	QPSK	1745.00	H	182	27	2.84	1 / 26	20.06	22.90	0.195	30.00	-7.10
	QPSK	1775.00	H	222	21	2.81	1 / 50	18.90	21.71	0.148	30.00	-8.29
5 MHz	16-QAM	1715.00	H	194	25	2.86	1 / 26	19.00	21.87	0.154	30.00	-8.13
	$\pi/2$ BPSK	1712.50	H	194	25	2.86	1 / 12	19.97	22.83	0.192	30.00	-7.17
	$\pi/2$ BPSK	1745.00	H	182	27	2.84	1 / 12	20.16	23.00	0.200	30.00	-7.00
	$\pi/2$ BPSK	1777.50	H	222	21	2.81	1 / 1	19.01	21.83	0.152	30.00	-8.17
	QPSK	1712.50	H	194	25	2.86	1 / 1	19.64	22.51	0.178	30.00	-7.49
	QPSK	1745.00	H	182	27	2.84	1 / 12	20.15	22.99	0.199	30.00	-7.01
5 MHz	QPSK	1777.50	H	222	21	2.81	1 / 12	18.98	21.79	0.151	30.00	-8.21
	16-QAM	1745.00	H	182	27	2.84	1 / 12	18.86	21.71	0.148	30.00	-8.29

Table 7-193. EIRP Data (NR Band n66) – Ant1

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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	1720.00	H	202	35	2.88	1 / 99	20.33	23.21	0.209	30.00	-6.79
	QPSK	1745.00	H	146	31	2.84	1 / 0	20.19	23.03	0.201	30.00	-6.97
	QPSK	1770.00	H	143	33	2.79	1 / 50	20.05	22.84	0.192	30.00	-7.16
	16-QAM	1720.00	H	202	35	2.88	1 / 99	19.63	22.51	0.178	30.00	-7.49
15 MHz	QPSK	1717.50	H	202	35	2.88	1 / 0	20.34	23.22	0.210	30.00	-6.78
	QPSK	1745.00	H	146	31	2.84	1 / 0	20.13	22.97	0.198	30.00	-7.03
	QPSK	1772.50	H	143	33	2.78	1 / 37	20.11	22.90	0.195	30.00	-7.10
	16-QAM	1745.00	H	146	31	2.84	1 / 0	19.60	22.44	0.175	30.00	-7.56
10 MHz	QPSK	1715.00	H	202	35	2.88	1 / 0	20.47	23.36	0.217	30.00	-6.64
	QPSK	1745.00	H	146	31	2.84	1 / 49	20.29	23.13	0.206	30.00	-6.87
	QPSK	1775.00	H	143	33	2.78	1 / 0	20.14	22.92	0.196	30.00	-7.08
	16-QAM	1745.00	H	146	31	2.84	1 / 49	19.88	22.73	0.187	30.00	-7.27
5 MHz	QPSK	1712.50	H	202	35	2.89	1 / 12	20.58	23.47	0.222	30.00	-6.53
	QPSK	1745.00	H	146	31	2.84	1 / 12	20.28	23.13	0.205	30.00	-6.87
	QPSK	1777.50	H	143	33	2.77	1 / 12	20.20	22.97	0.198	30.00	-7.03
	16-QAM	1712.50	H	202	35	2.89	1 / 12	19.74	22.63	0.183	30.00	-7.37
3 MHz	QPSK	1711.50	H	202	35	2.89	1 / 0	20.28	23.17	0.207	30.00	-6.83
	QPSK	1745.00	H	146	31	2.84	1 / 14	20.07	22.92	0.196	30.00	-7.08
	QPSK	1778.50	H	143	33	2.77	1 / 7	20.08	22.85	0.193	30.00	-7.15
	16-QAM	1745.00	H	146	31	2.84	1 / 14	19.84	22.68	0.186	30.00	-7.32
1.4 MHz	QPSK	1710.70	H	202	35	2.89	1 / 0	20.37	23.26	0.212	30.00	-6.74
	QPSK	1745.00	H	146	31	2.84	1 / 0	20.14	22.98	0.199	30.00	-7.02
	QPSK	1779.30	H	143	33	2.77	1 / 0	20.05	22.81	0.191	30.00	-7.19
	16-QAM	1710.70	H	202	35	2.89	1 / 0	19.61	22.50	0.178	30.00	-7.50

Table 7-194. EIRP Data (LTE Band 66/4) – Ant2

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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.

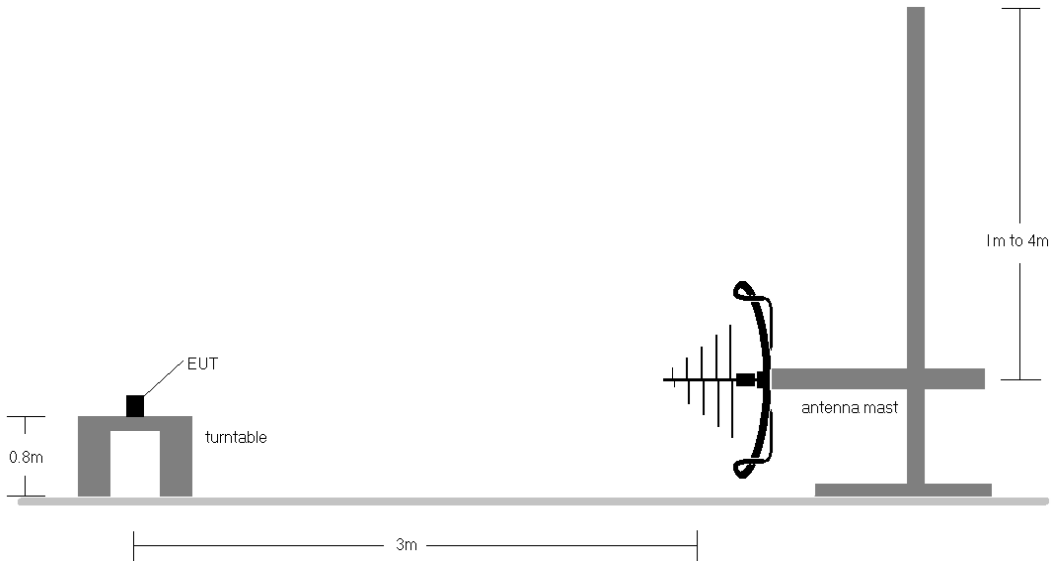


Figure 7-8. Test Instrument & Measurement Setup < 1GHz

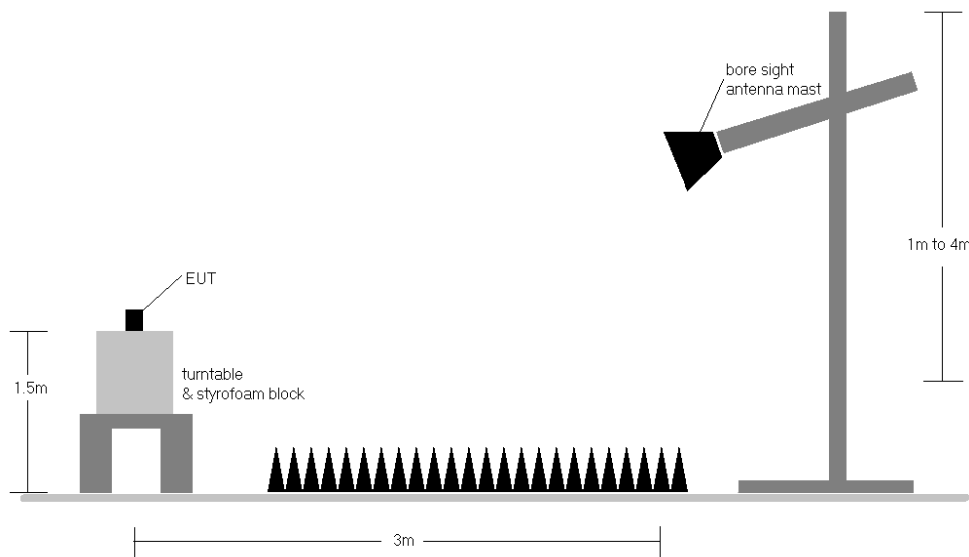


Figure 7-9. Test Instrument & Measurement Setup > 1GHz

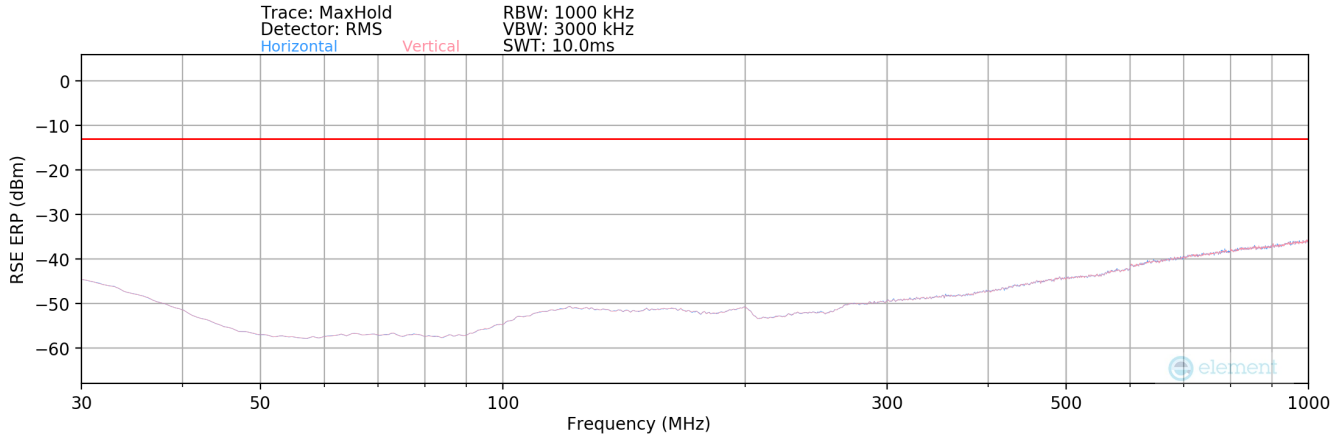
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Test Notes

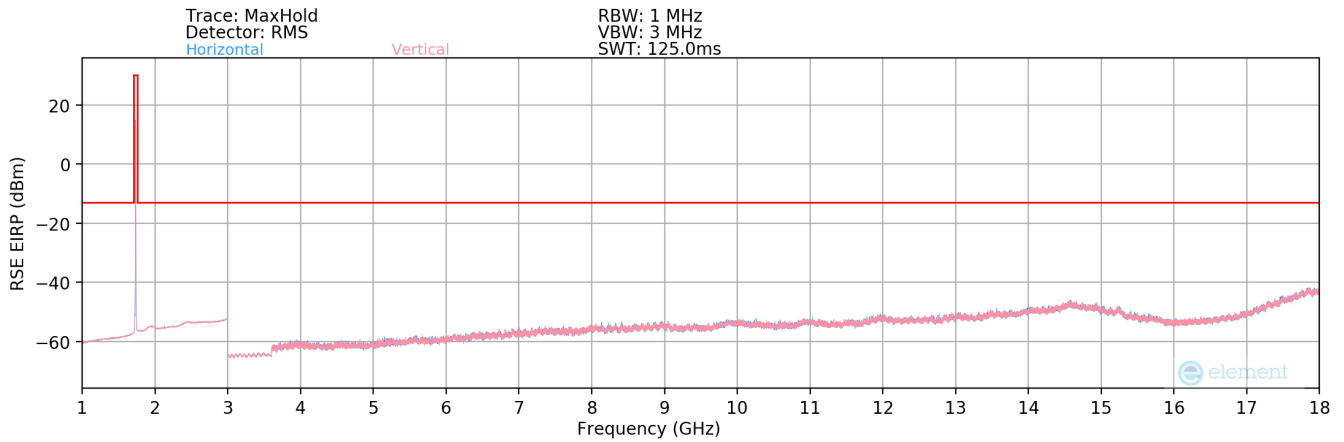
- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
 - b) $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$; 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. Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates

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WCDMA AWS – Ant1



Plot 7-195. Radiated Spurious Plot (WCDMA AWS) – Ant1



Plot 7-196. Radiated Spurious Plot (WCDMA AWS) – Ant1

Channel:	1413
Frequency (MHz):	1732.6
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
106.05	H	-	-	-84.11	18.65	41.54	-55.87	-13.00	-42.87
505.68	H	-	-	-83.92	25.93	49.01	-48.40	-13.00	-35.40
726.66	H	-	-	-83.97	29.34	52.37	-45.04	-13.00	-32.04

Table 7-29. Radiated Spurious Data (WCDMA AWS – Mid Channel) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Channel:	1312
Frequency (MHz):	1712.4
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3424.80	H	-	-	-76.95	1.37	31.42	-63.83	-13.00	-50.83
5137.20	H	288	119	-76.86	4.02	34.16	-61.09	-13.00	-48.09
6849.60	H	-	-	-79.00	8.21	36.21	-59.05	-13.00	-46.05
8562.00	H	-	-	-79.80	9.81	37.01	-58.25	-13.00	-45.25
10274.40	H	-	-	-80.03	11.58	38.55	-56.71	-13.00	-43.71

7-30. Radiated Spurious Data (WCDMA AWS – Low Channel) – Ant1

Channel:	1413
Frequency (MHz):	1732.6
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3465.20	H	-	-	-76.89	1.21	31.32	-63.94	-13.00	-50.94
5197.80	H	277	127	-77.16	4.22	34.06	-61.19	-13.00	-48.19
6930.40	H	-	-	-78.28	7.70	36.42	-58.84	-13.00	-45.84
8663.00	H	-	-	-79.05	10.06	38.01	-57.25	-13.00	-44.25
10395.60	H	-	-	-80.55	11.68	38.13	-57.13	-13.00	-44.13

Table 7-31. Radiated Spurious Data (WCDMA AWS – Mid Channel) – Ant1

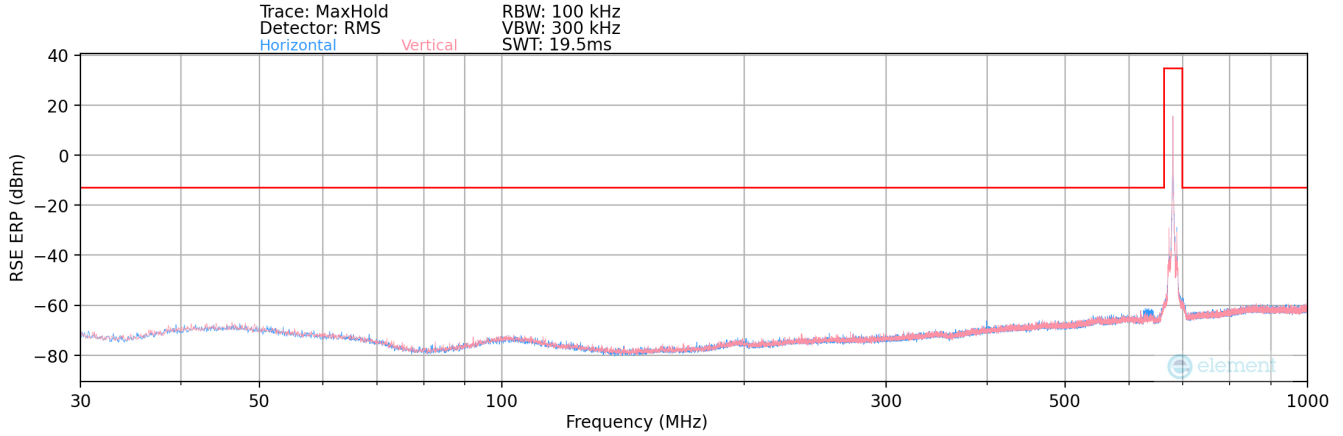
Channel:	1513
Frequency (MHz):	1752.6
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3505.20	H	-	-	-76.89	1.18	31.29	-63.96	-13.00	-50.96
5257.80	H	277	127	-77.16	3.97	33.81	-61.44	-13.00	-48.44
7010.40	H	-	-	-78.28	7.14	35.86	-59.40	-13.00	-46.40
8763.00	H	-	-	-79.05	9.65	37.60	-57.66	-13.00	-44.66
10515.60	H	-	-	-80.55	11.74	38.19	-57.06	-13.00	-44.06

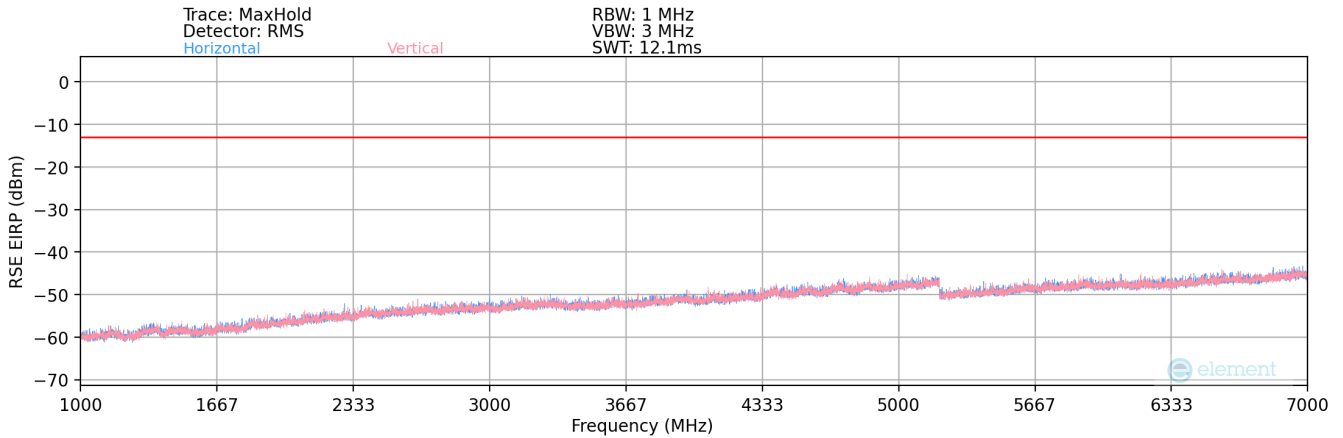
Table 7-32. Radiated Spurious Data (WCDMA AWS – High Channel) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 154 of 186

LTE Band 71 – Ant1



Plot 7-197. Radiated Spurious Plot (LTE Band 71) – Ant1



Plot 7-198. Radiated Spurious Plot (LTE Band 71) – Ant1

Mode:	20
Channel:	680.5
Frequency (MHz):	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]
92.00	V	-	-	-80.04	-15.04	11.92	-85.49	-13.00	-72.49

Table 7-33. Radiated Spurious Data (LTE Band 71) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 155 of 186



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	V	300	49	-73.45	-0.35	33.20	-62.05	-13.00	-49.05
2019.00	V	376	83	-78.43	2.42	30.99	-64.27	-13.00	-51.27
2692.00	V	-	-	-79.32	4.85	32.53	-62.73	-13.00	-49.73
3365.00	V	-	-	-79.83	6.55	33.72	-61.54	-13.00	-48.54
4038.00	V	-	-	-80.21	7.93	34.72	-60.53	-13.00	-47.53

Table 7-34. Radiated Spurious Data (LTE Band 71 – Low Channel) – Ant1

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	V	212	70	-74.93	-0.27	31.80	-63.45	-13.00	-50.45
2041.50	V	-	-	-78.38	1.85	30.47	-64.79	-13.00	-51.79
2722.00	V	-	-	-79.54	4.93	32.39	-62.87	-13.00	-49.87
3402.50	V	-	-	-79.87	6.42	33.55	-61.71	-13.00	-48.71

Table 7-35. Radiated Spurious Data (LTE Band 71 – Mid Channel) – Ant1

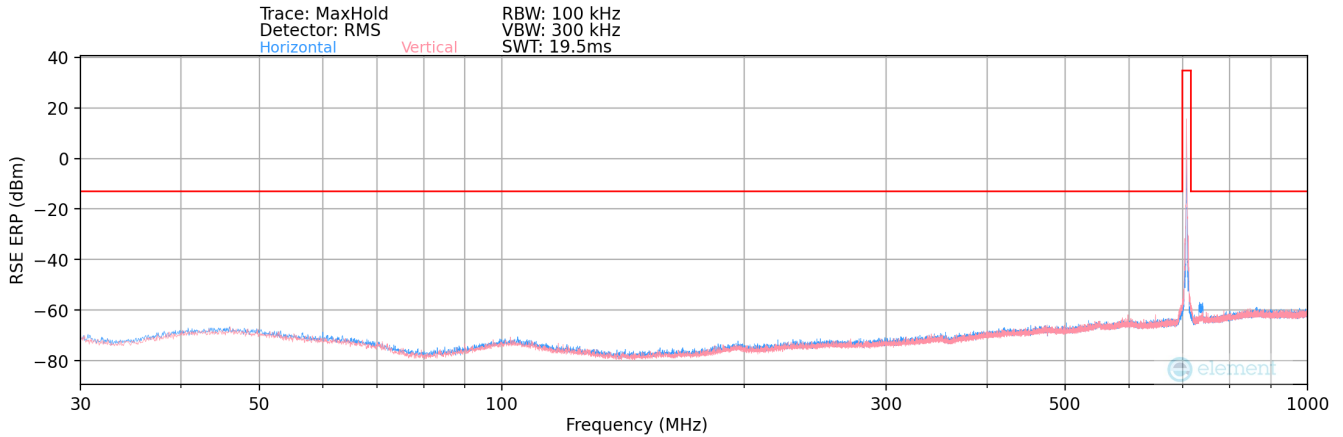
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 50

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	V	304	87	-71.76	-0.56	34.68	-60.58	-13.00	-47.58
2064.00	V	283	36	-78.02	1.76	30.74	-64.51	-13.00	-51.51
2752.00	V	-	-	-79.25	4.49	32.24	-63.02	-13.00	-50.02
3440.00	V	-	-	-79.75	6.90	34.15	-61.11	-13.00	-48.11
4128.00	V	-	-	-80.43	8.10	34.67	-60.58	-13.00	-47.58

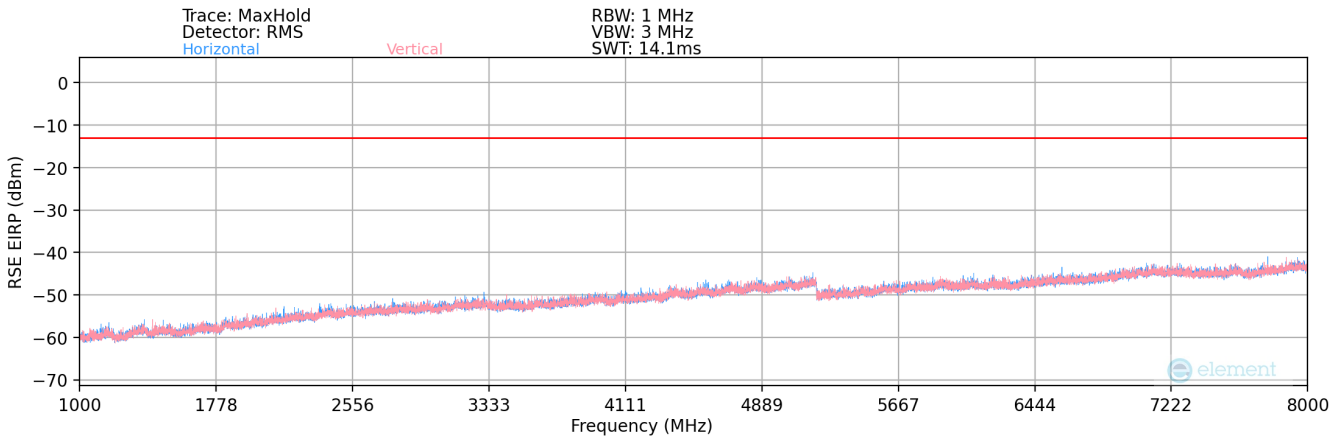
Table 7-36. Radiated Spurious Data (LTE Band 71 – High Channel) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 156 of 186

LTE Band 12 – Ant1



Plot 7-199. Radiated Spurious Plot (LTE Band 12) – Ant1



Plot 7-200. Radiated Spurious Plot (LTE Band 12) – Ant1

Mode:	10
Channel:	707.5
Frequency (MHz):	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]
598.00	V	-	-	-86.16	-4.60	16.24	-81.17	-13.00	-68.17

Table 7-37. Radiated Spurious Data (LTE Band 12 – Mid Channel) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 157 of 186

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]
1408.00	V	303	57	-71.49	-1.67	33.84	-61.42	-13.00	-48.42
2112.00	V	-	-	-78.94	2.81	30.87	-64.39	-13.00	-51.39
2816.00	V	-	-	-79.28	5.06	32.78	-62.48	-13.00	-49.48
3520.00	V	-	-	-80.07	6.82	33.75	-61.50	-13.00	-48.50

Table 7-38. Radiated Spurious Data (LTE Band 12 – Low Channel) – Ant1

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]
1415.00	V	271	64	-72.03	-1.67	33.30	-61.95	-13.00	-48.95
2122.50	V	153	99	-77.98	2.79	31.81	-63.45	-13.00	-50.45
2830.00	V	-	-	-79.48	5.21	32.73	-62.53	-13.00	-49.53
3537.50	V	-	-	-79.83	6.77	33.94	-61.31	-13.00	-48.31
4245.00	V	-	-	-80.56	8.67	35.11	-60.15	-13.00	-47.15

Table 7-39. Radiated Spurious Data (LTE Band 12 – Mid Channel) – Ant1

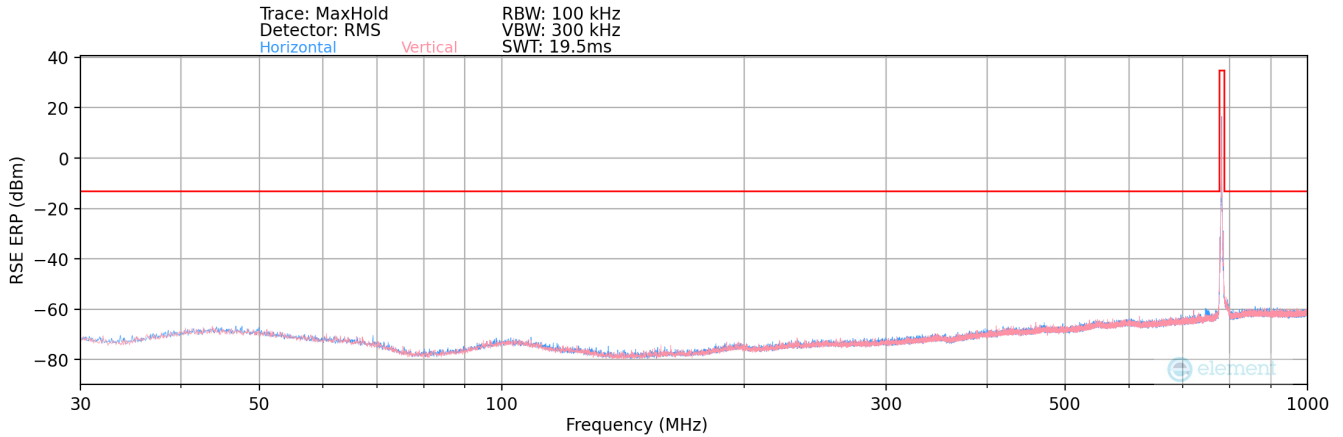
Bandwidth (MHz):	10
Frequency (MHz):	711
RB / Offset:	1 / 25

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]
1422.00	V	260	76	-70.59	-1.45	34.96	-60.29	-13.00	-47.29
2133.00	V	194	58	-77.35	2.68	32.33	-62.93	-13.00	-49.93
2844.00	V	-	-	-79.12	5.02	32.90	-62.36	-13.00	-49.36
3555.00	V	-	-	-79.87	6.78	33.91	-61.35	-13.00	-48.35
4266.00	V	-	-	-80.52	8.57	35.05	-60.21	-13.00	-47.21

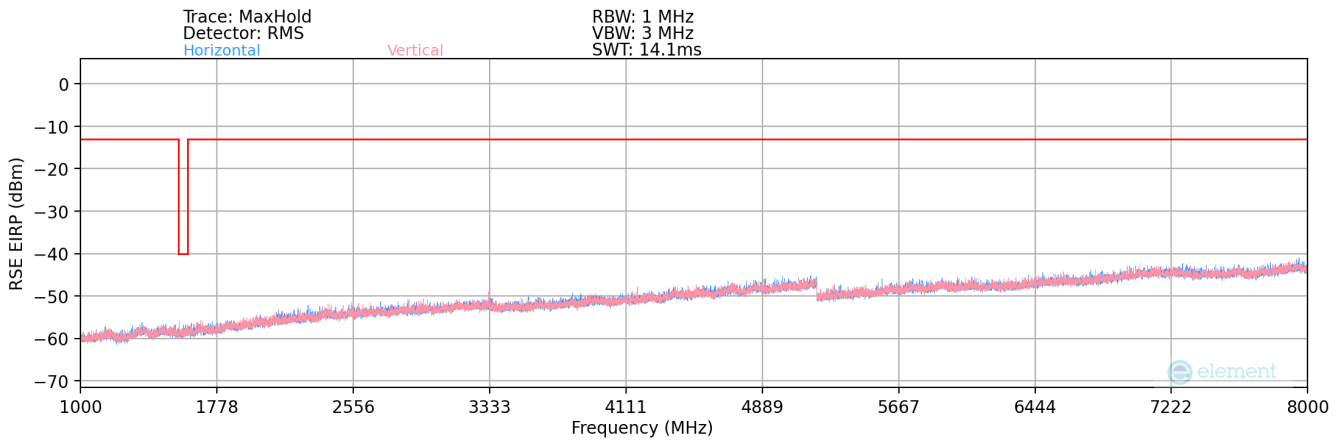
Table 7-40. Radiated Spurious Data (LTE Band 12 – High Channel) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 158 of 186

LTE Band 13 – Ant1



Plot 7-201. Radiated Spurious Plot (LTE Band 13) – Ant1



Plot 7-202. Radiated Spurious Plot (LTE Band 13) – Ant1

Mode:	10
Channel:	782
Frequency (MHz):	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]
233.00	V	-	-	-83.08	-12.51	11.41	-86.00	-13.00	-73.00

Table 7-41. Radiated Spurious Data (LTE Band 13) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 159 of 186



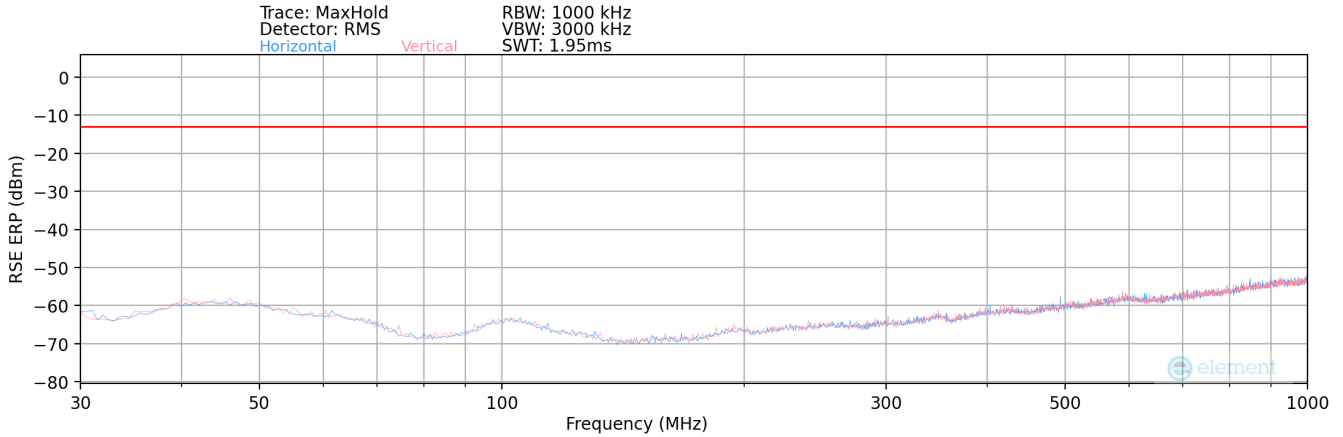
Bandwidth (MHz):	10
Frequency (MHz):	782
RB / Offset:	1 / 25

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	V	329	101	-74.75	-0.92	31.33	-63.92	-40.00	-23.92
2346.00	V	-	-	-78.83	3.24	31.41	-63.84	-13.00	-50.84
3128.00	V	-	-	-79.63	6.01	33.38	-61.88	-13.00	-48.88
3910.00	V	-	-	-80.25	8.28	35.03	-60.23	-13.00	-47.23

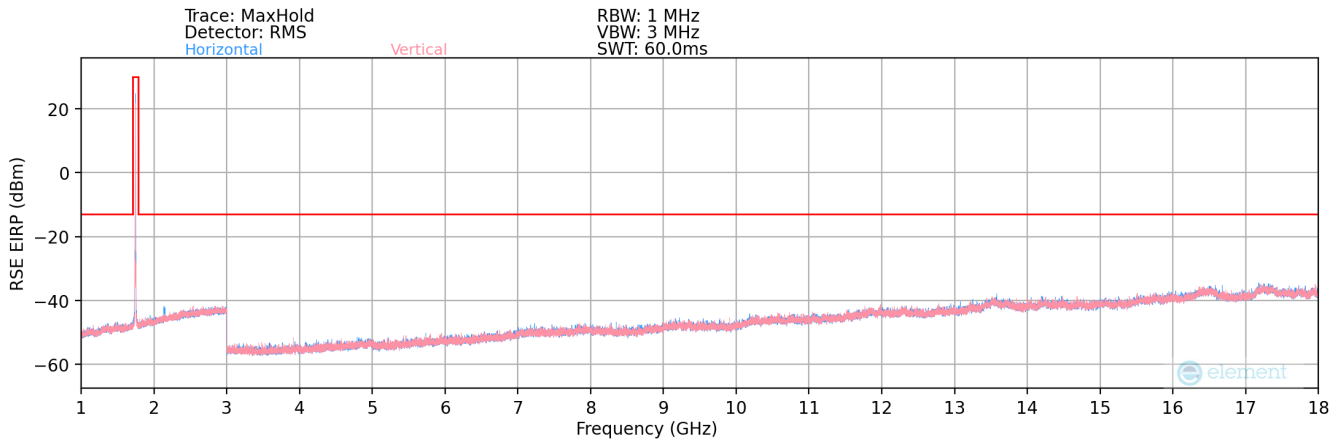
Table 7-42. Radiated Spurious Data (LTE Band 13 – Mid Channel) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 160 of 186

LTE Band 66/4 – Ant1



Plot 7-203. Radiated Spurious Plot (LTE Band 66/4) – Ant1



Plot 7-204. Radiated Spurious Plot (LTE Band 66/4) – Ant1

Mode:	20
Channel:	1745
Frequency (MHz):	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]
497.00	H	-	-	-76.08	-6.79	24.13	-73.28	-13.00	-60.28

Table 7-43. Radiated Spurious Data (LTE Band 66/4) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 161 of 186



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	-	-	-79.72	7.22	34.50	-60.75	-13.00	-47.75
5160.00	H	-	-	-81.24	10.65	36.41	-58.85	-13.00	-45.85
6880.00	H	-	-	-81.80	13.86	39.06	-56.19	-13.00	-43.19

Table 7-44. Radiated Spurious Data (LTE Band 66/4 – Low Channel) – Ant1

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	-	-	-79.50	7.16	34.66	-60.60	-13.00	-47.60
5235.00	H	-	-	-81.21	10.29	36.08	-59.18	-13.00	-46.18
6980.00	H	-	-	-81.84	13.87	39.03	-56.23	-13.00	-43.23

Table 7-45. Radiated Spurious Data (LTE Band 66/4 – Mid Channel) – Ant1

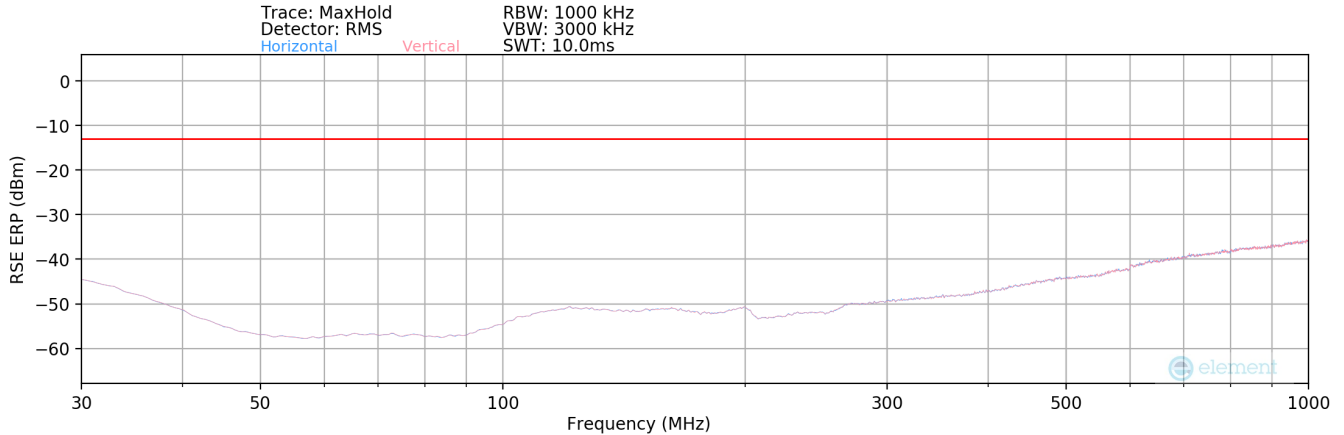
Bandwidth (MHz):	20
Frequency (MHz):	1770
RB / Offset:	1 / 50

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	-	-	-80.01	7.31	34.30	-60.96	-13.00	-47.96
5310.00	H	-	-	-81.43	10.65	36.22	-59.03	-13.00	-46.03
7080.00	H	-	-	-82.13	14.20	39.07	-56.19	-13.00	-43.19

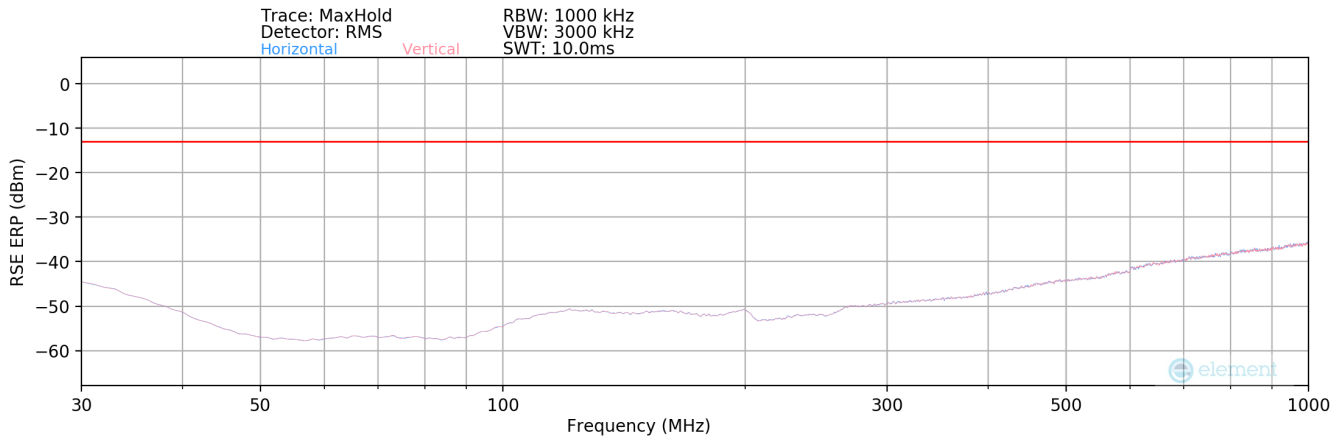
Table 7-46. Radiated Spurious Data (LTE Band 66/4 – High Channel) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 162 of 186

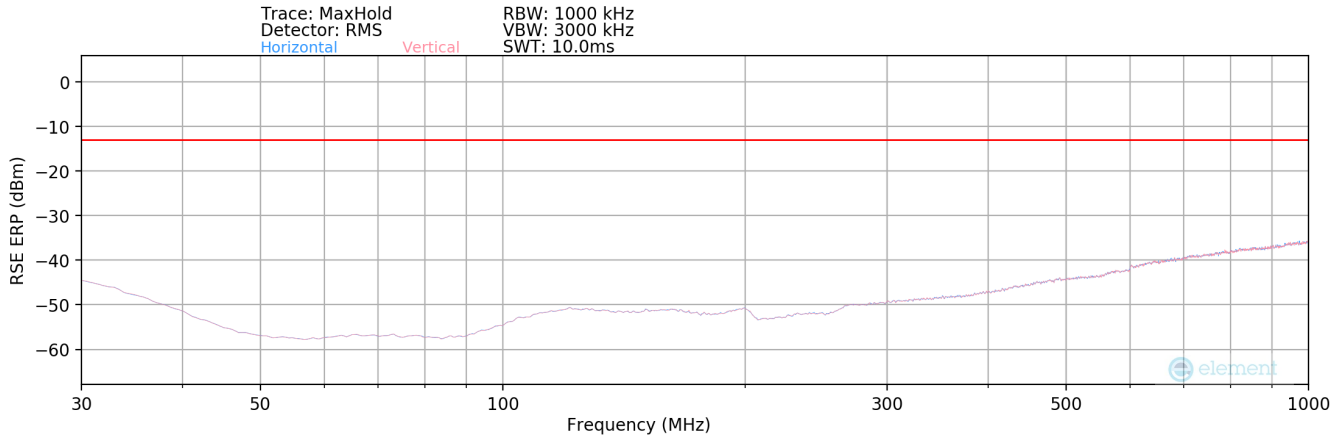
Uplink CA LTE Band 66B/C – Ant1



Plot 7-205. Radiated Spurious Plot (ULCA LTE Band 66 – Ant1 – Low Channel)

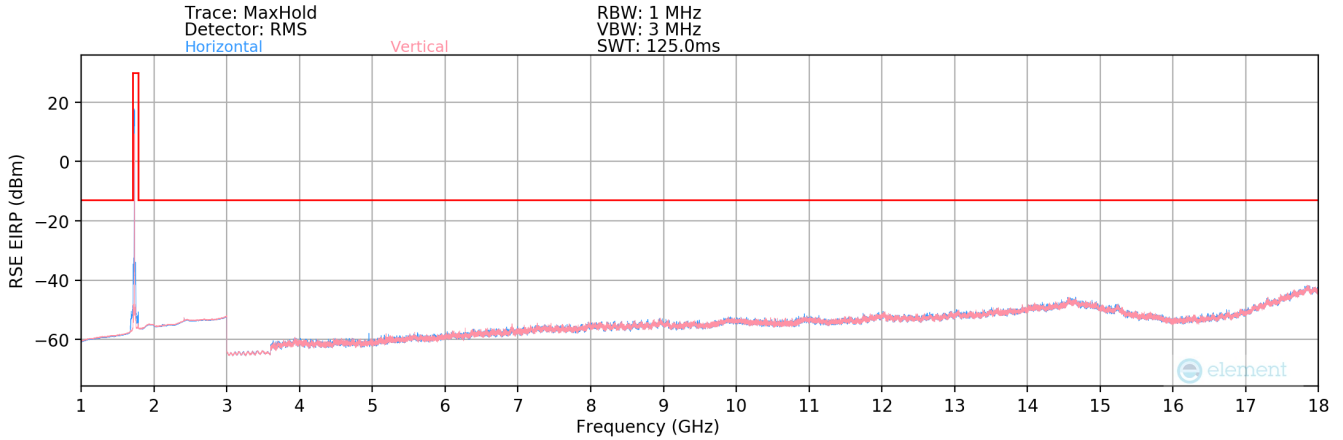


Plot 7-206. Radiated Spurious Plot (ULCA LTE Band 66 – Ant1 – Mid Channel)

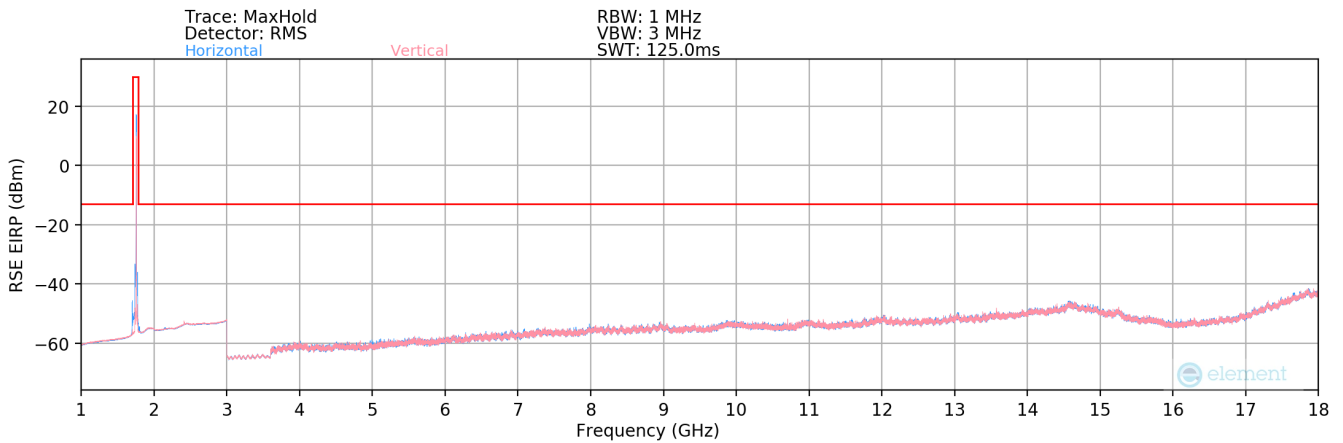


Plot 7-207. Radiated Spurious Plot (ULCA LTE Band 66 – Ant1 – High Channel)

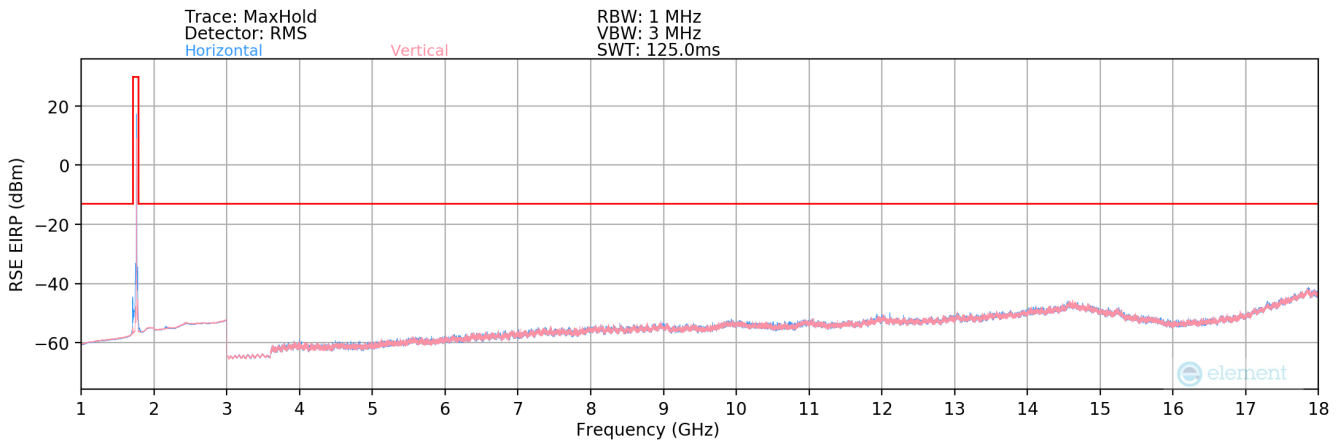
FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 163 of 186



Plot 7-208. Radiated Spurious Plot (ULCA LTE Band 66 – Ant1 – Low Channel)



Plot 7-209. Radiated Spurious Plot (ULCA LTE Band 66 – Ant1 – Mid Channel)



Plot 7-210. Radiated Spurious Plot (ULCA LTE Band 66 – Ant1 – High Channel)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 164 of 186



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]
172.59	V	-	-	-84.16	19.10	41.94	-55.47	-13.00	-42.47
351.34	V	-	-	-83.99	22.42	45.43	-51.98	-13.00	-38.98
478.17	V	-	-	-83.89	25.61	48.72	-48.69	-13.00	-35.69

7-47. Radiated Spurious Data (ULCA LTE66 – Ant1)

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	-	-	-76.92	1.46	31.54	-63.72	-13.00	-50.72
5160.00	V	-	-	-78.44	3.95	32.51	-62.75	-13.00	-49.75
6880.00	V	331	188	-75.32	8.16	39.84	-55.42	-13.00	-42.42
8600.00	V	-	-	-79.47	10.16	37.69	-57.57	-13.00	-44.57
10320.00	V	-	-	-80.39	11.22	37.83	-57.43	-13.00	-44.43
12040.00	V	-	-	-80.14	13.90	40.76	-54.50	-13.00	-41.50

7-48. Radiated Spurious Data (ULCA LTE66 – Low Channel – Ant1)

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	-	-	-76.86	1.25	31.39	-63.86	-13.00	-50.86
5235.00	V	-	-	-78.41	4.15	32.74	-62.51	-13.00	-49.51
6980.00	V	300	216	-75.97	7.18	38.21	-57.05	-13.00	-44.05
8725.00	V	-	-	-78.87	9.91	38.04	-57.22	-13.00	-44.22
10470.00	V	-	-	-80.56	12.08	38.52	-56.73	-13.00	-43.73
12215.00	V	-	-	-80.23	13.67	40.44	-54.82	-13.00	-41.82

Table 7-49. Radiated Spurious Data (ULCA LTE66 – Mid Channel – Ant1)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 165 of 186



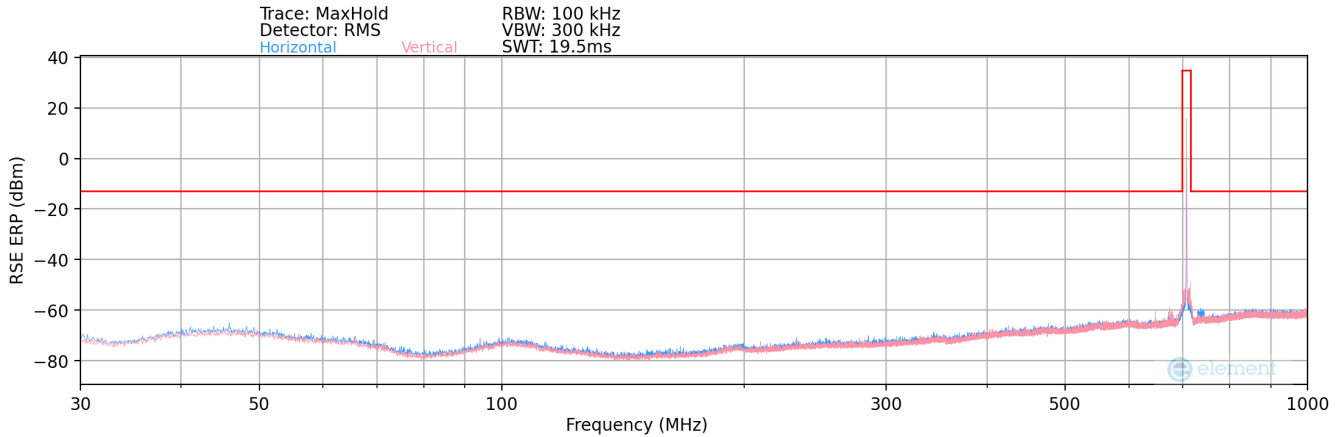
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	1770.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	1750.2
SCC RB / Offset:	1 / 99

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	-	-	-76.86	0.82	30.96	-64.30	-13.00	-51.30
5310.00	V	-	-	-78.47	3.85	32.38	-62.88	-13.00	-49.88
7080.00	V	309	218	-74.62	7.57	39.95	-55.31	-13.00	-42.31
8850.00	V	-	-	-78.85	9.90	38.05	-57.20	-13.00	-44.20
10620.00	V	-	-	-80.55	12.14	38.59	-56.67	-13.00	-43.67
12390.00	V	-	-	-80.21	13.63	40.42	-54.84	-13.00	-41.84

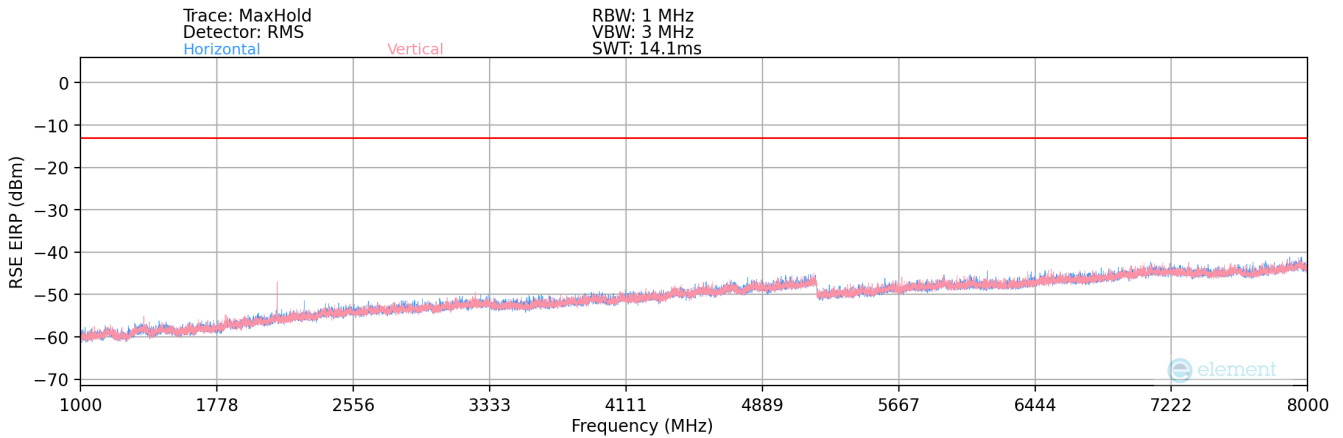
Table 7-50. Radiated Spurious Data (ULCA LTE66 – High Channel – Ant1)

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n12 – Ant1



Plot 7-211. Radiated Spurious Plot (NR Band n12) – Ant1



Plot 7-212. Radiated Spurious Plot (NR Band n12) – Ant1

Mode:	Stand Alone
Bandwidth (MHz):	15
Frequency (MHz):	707.5

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]
93.12	V	-	-	-91.55	-14.84	0.61	-96.80	-13.00	-83.80
211.42	V	-	-	-91.24	-13.81	1.95	-95.45	-13.00	-82.45
480.31	V	-	-	-89.31	-7.07	10.62	-86.79	-13.00	-73.79

Table 7-51. Radiated Spurious Data (NR Band n12) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 167 of 186



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 [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1413.00	V	278	100	-74.31	-1.71	30.98	-64.27	-13.00	-51.27
2119.50	V	353	95	-66.37	2.82	43.45	-51.81	-13.00	-38.81
2826.00	V	-	-	-79.31	5.17	32.86	-62.40	-13.00	-49.40
3532.50	V	-	-	-79.87	6.78	33.91	-61.34	-13.00	-48.34
4239.00	V	-	-	-80.44	8.69	35.25	-60.00	-13.00	-47.00

Table 7-52. Radiated Spurious Data (NR Band n12 – Low Channel) – Ant1

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 [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1415.00	V	262	60	-73.66	-1.67	31.67	-63.58	-13.00	-50.58
2122.50	V	346	59	-65.55	2.79	44.24	-51.02	-13.00	-38.02
2830.00	V	-	-	-79.28	5.21	32.93	-62.33	-13.00	-49.33
3537.50	V	-	-	-79.90	6.77	33.87	-61.38	-13.00	-48.38
4245.00	V	-	-	-80.59	8.67	35.08	-60.18	-13.00	-47.18

Table 7-53. Radiated Spurious Data (NR Band n12 – Mid Channel) – Ant1

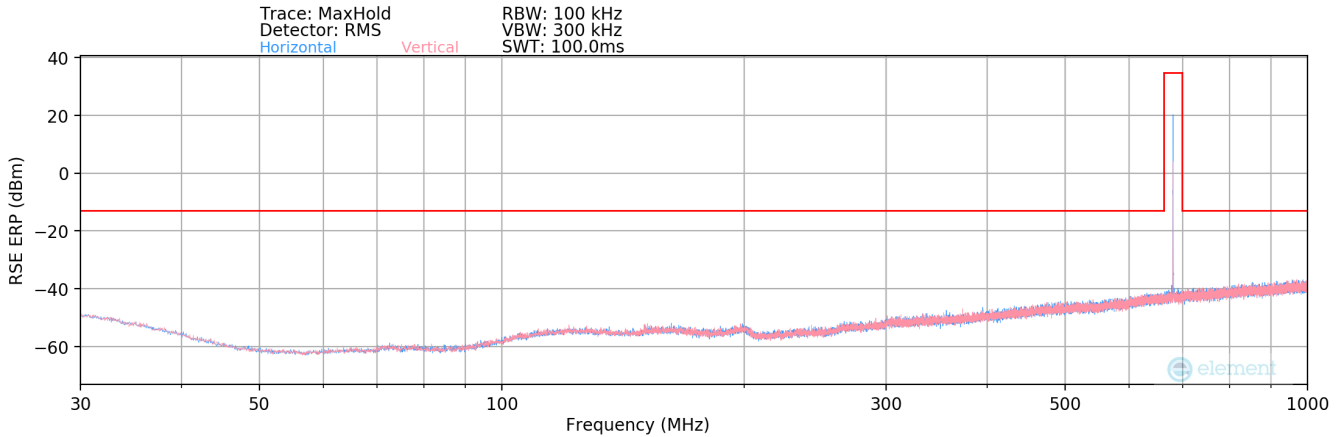
Bandwidth (MHz):	15
Frequency (MHz):	708.5
RB / Offset:	1 / 39

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1417.00	V	280	57	-73.11	-1.60	32.29	-62.97	-13.00	-49.97
2125.50	V	315	43	-67.74	2.76	42.02	-53.24	-13.00	-40.24
2834.00	V	-	-	-79.27	5.23	32.96	-62.29	-13.00	-49.29
3542.50	V	-	-	-79.76	6.76	34.00	-61.25	-13.00	-48.25
4251.00	V	-	-	-80.64	8.65	35.01	-60.24	-13.00	-47.24

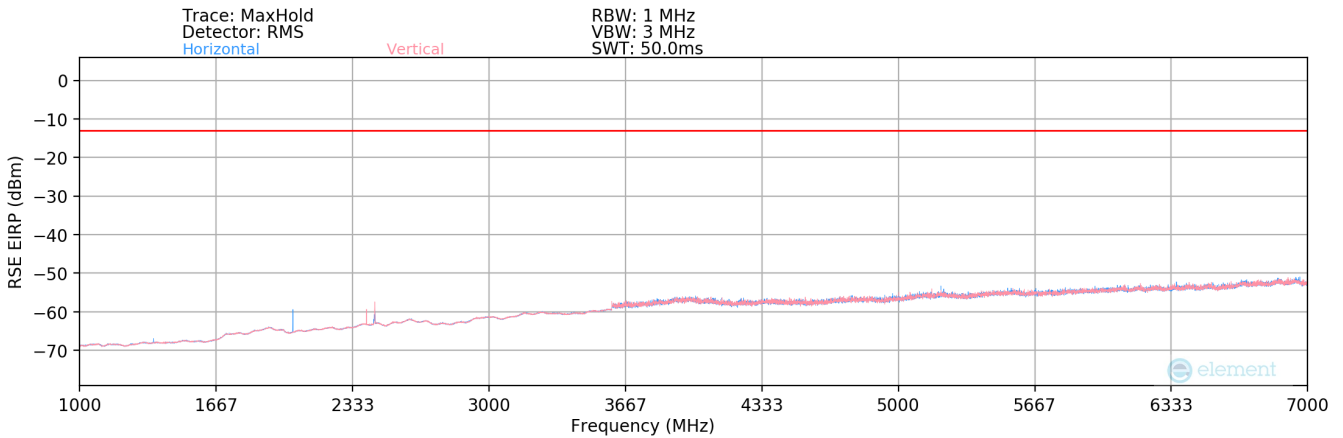
Table 7-54. Radiated Spurious Data (NR Band n12 – High Channel) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 168 of 186

NR Band n71 – Ant1



Plot 7-213. Radiated Spurious Plot (NR Band n71) – Ant1



Plot 7-214. Radiated Spurious Plot (NR Band n71) – Ant1

Mode:	Stand Alone
Bandwidth (MHz):	20
Frequency (MHz):	688

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]
77.00	H	-	-	-89.56	14.76	32.20	-65.21	-13.00	-52.21
301.68	H	-	-	-89.33	21.26	38.93	-58.48	-13.00	-45.48
492.86	H	-	-	-89.71	25.59	42.88	-54.53	-13.00	-41.53

Table 7-55. Radiated Spurious Data (NR Band n71 – Low Channel) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 169 of 186



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]
1346.00	H	182	120	-72.41	-7.38	27.21	-68.05	-13.00	-55.05
2019.00	H	136	60	-72.16	-4.61	30.23	-65.02	-13.00	-52.02
2692.00	H	-	-	-76.55	-1.75	28.70	-66.56	-13.00	-53.56
3365.00	H	-	-	-76.77	0.17	30.40	-64.85	-13.00	-51.85

Table 7-56. Radiated Spurious Data (NR Band n71 – Low Channel) – Ant1

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]
1361.00	H	158	98	-72.40	-7.38	27.22	-68.03	-13.00	-55.03
2041.50	H	200	68	-66.03	-4.41	36.56	-58.70	-13.00	-45.70
2722.00	H	-	-	-76.64	-2.25	28.11	-67.15	-13.00	-54.15
3402.50	H	-	-	-76.63	0.13	30.50	-64.76	-13.00	-51.76
4083.00	H	-	-	-77.75	2.21	31.46	-63.80	-13.00	-50.80

Table 7-57. Radiated Spurious Data (NR Band n71 – Mid Channel) – Ant1

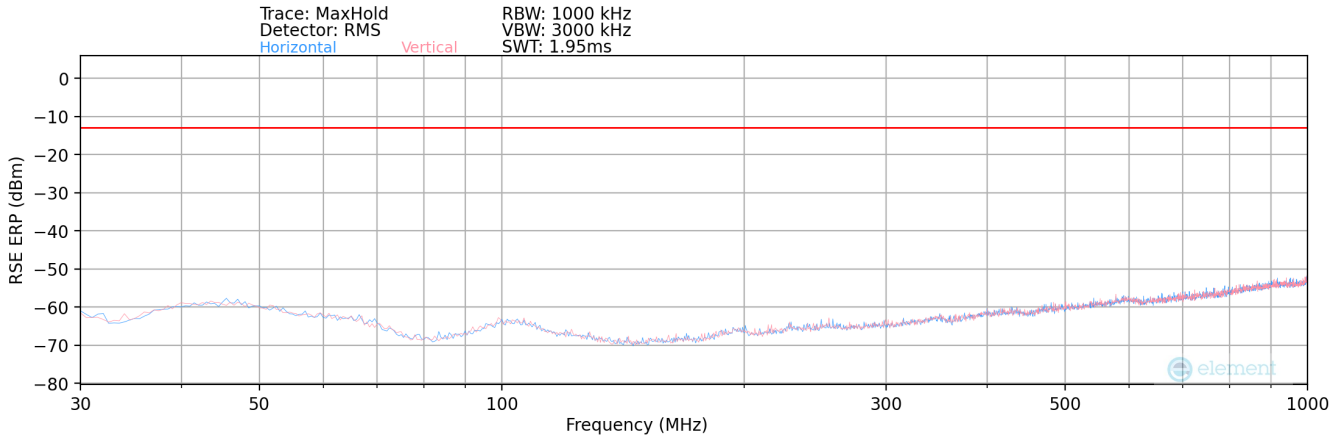
Bandwidth (MHz):	20
Frequency (MHz):	688
RB / Offset:	1 / 53

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]
1376.00	H	159	106	-71.66	-7.38	27.96	-67.30	-13.00	-54.30
2064.00	H	157	64	-64.79	-4.27	37.94	-57.32	-13.00	-44.32
2752.00	H	-	-	-76.61	-2.41	27.98	-67.27	-13.00	-54.27
3440.00	H	-	-	-76.56	0.18	30.62	-64.64	-13.00	-51.64
4128.00	H	-	-	-77.48	1.86	31.38	-63.87	-13.00	-50.87

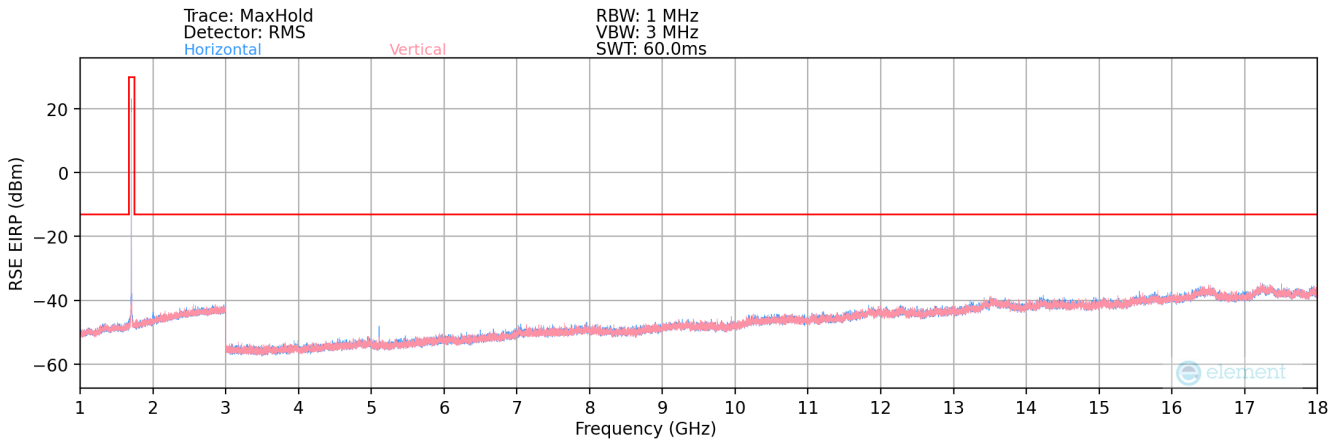
Table 7-58. Radiated Spurious Data (NR Band n71 – High Channel) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 170 of 186

NR Band n70 – Ant1



Plot 7-215. Radiated Spurious Plot (NR Band n70) – Ant1



Plot 7-216. Radiated Spurious Plot (NR Band n70) – Ant1

Bandwidth (MHz):	15
Frequency (MHz):	1702.5

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]
84.05	H	-	-	-82.05	-17.59	7.36	-90.05	-13.00	-77.05
315.74	H	-	-	-81.51	-10.76	14.73	-82.68	-13.00	-69.68
481.73	H	-	-	-79.44	-7.05	20.51	-76.90	-13.00	-63.90

Table 7-59. Radiated Spurious Data (NR Band n70) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 171 of 186



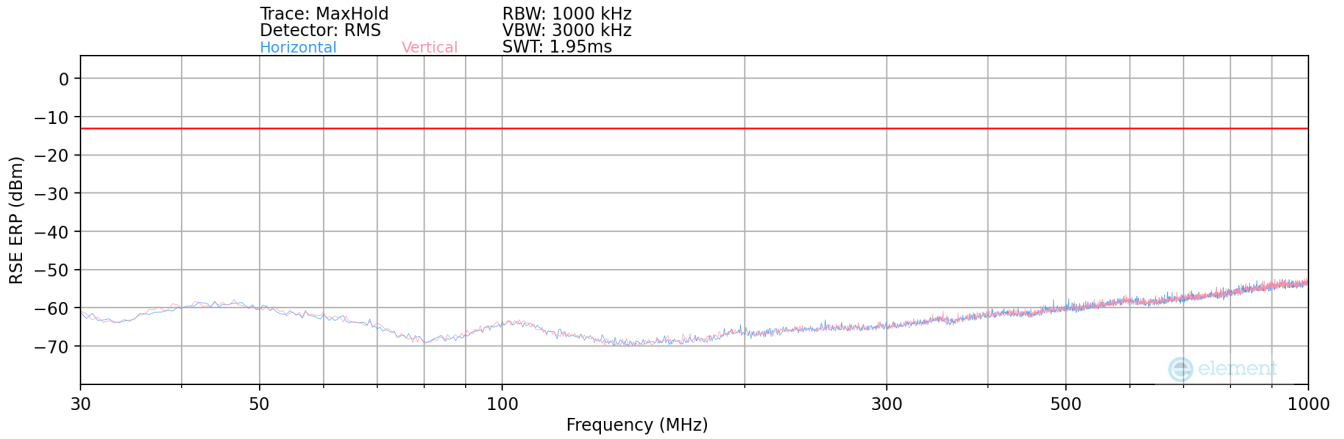
Bandwidth (MHz):	15
Frequency (MHz):	1702.5
RB / Offset:	1 / 39

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3405.00	H	108	295	-79.14	7.14	35.00	-60.26	-13.00	-47.26
5107.50	H	112	158	-76.53	10.35	40.82	-54.44	-13.00	-41.44
6810.00	H	-	-	-82.06	13.62	38.56	-56.69	-13.00	-43.69
8512.50	H	-	-	-83.03	16.10	40.07	-55.19	-13.00	-42.19
10215.00	H	-	-	-83.46	19.60	43.14	-52.12	-13.00	-39.12

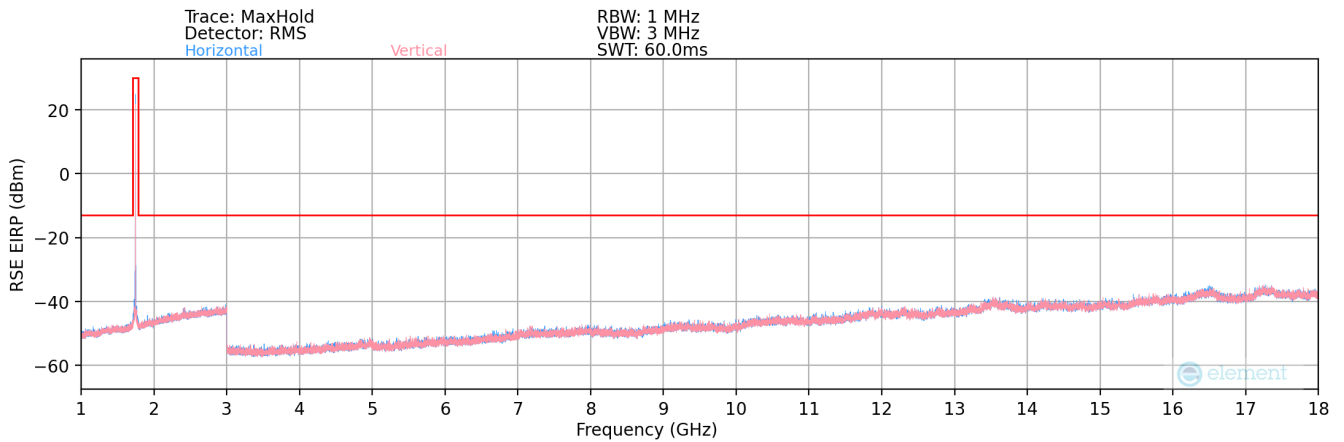
Table 7-60. Radiated Spurious Data (NR Band n70 – Mid Channel) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 172 of 186

NR Band n66 – Ant1



Plot 7-217. Radiated Spurious Plot (NR Band n66) – Ant1



Plot 7-218. Radiated Spurious Plot (NR Band n66) – Ant1

Mode:	Stand Alone
Bandwidth (MHz):	40
Frequency (MHz):	1760

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]
89.33	H	-	-	-82.10	-16.03	8.87	-88.54	-13.00	-75.54
293.80	H	-	-	-81.70	-11.38	13.92	-83.49	-13.00	-70.49
513.46	H	-	-	-79.73	-6.69	20.58	-76.83	-13.00	-63.83

Table 7-61. Radiated Spurious Data (NR Band n66) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 173 of 186



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]
3460.00	H	-	-	-79.60	7.09	34.49	-60.77	-13.00	-47.77
5190.00	H	259	121	-78.70	10.36	38.66	-56.59	-13.00	-43.59
6920.00	H	-	-	-81.88	13.69	38.81	-56.45	-13.00	-43.45
8650.00	H	-	-	-83.63	16.92	40.29	-54.97	-13.00	-41.97
10380.00	H	-	-	-82.91	19.71	43.80	-51.46	-13.00	-38.46

Table 7-62. Radiated Spurious Data (NR Band n66 – Low Channel) – Ant1

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]
3490.00	H	-	-	-79.44	7.16	34.72	-60.54	-13.00	-47.54
5235.00	H	238	126	-78.35	10.29	38.94	-56.32	-13.00	-43.32
6980.00	H	-	-	-82.00	13.87	38.87	-56.39	-13.00	-43.39
8725.00	H	-	-	-82.93	16.38	40.45	-54.81	-13.00	-41.81
10470.00	H	-	-	-83.03	19.31	43.28	-51.98	-13.00	-38.98

Table 7-63. Radiated Spurious Data (NR Band n66 – Mid Channel) – Ant1

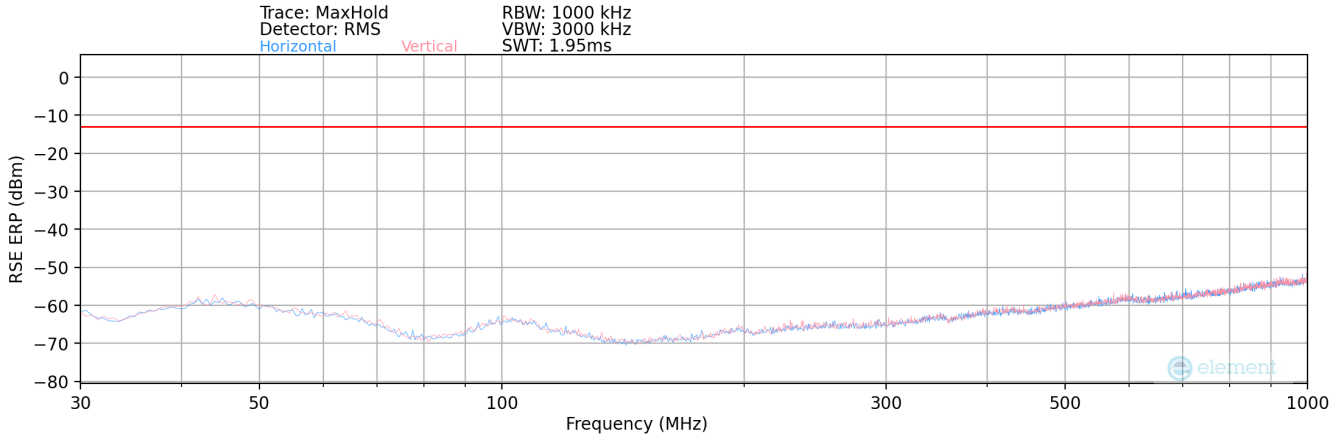
Bandwidth (MHz):	40
Frequency (MHz):	1760
RB / Offset:	1 / 108

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]
3520.00	H	-	-	-79.77	7.16	34.39	-60.86	-13.00	-47.86
5280.00	H	234	124	-77.57	10.33	39.76	-55.50	-13.00	-42.50
7040.00	H	-	-	-82.15	15.11	39.96	-55.29	-13.00	-42.29
8800.00	H	-	-	-82.84	16.90	41.06	-54.20	-13.00	-41.20
10560.00	H	-	-	-83.02	19.74	43.72	-51.54	-13.00	-38.54

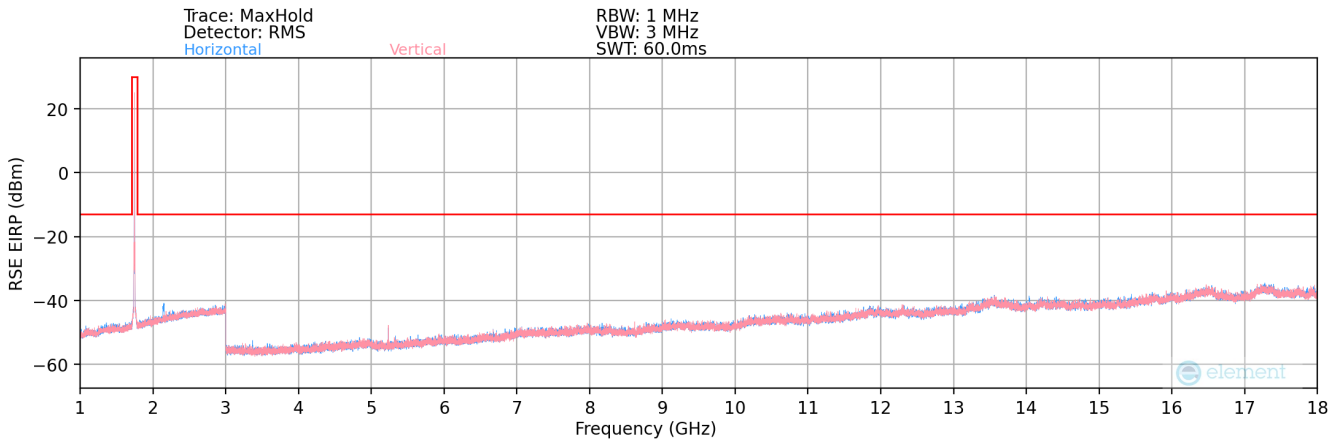
Table 7-64. Radiated Spurious Data (NR Band n66 – High Channel) – Ant1

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 174 of 186

LTE Band 66/4 – Ant2



Plot 7-219. Radiated Spurious Plot (LTE Band 66/4) – Ant2



Plot 7-220. Radiated Spurious Plot (LTE Band 66/4) – Ant2

Mode:	20
Channel:	1745
Frequency (MHz):	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]
43.00	V	-	-	-64.81	-11.89	30.30	-67.10	-13.00	-54.10

Table 7-65. Radiated Spurious Data (LTE Band 66/4) – Ant2

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2405140039-02.A3L	Test Dates: 5/23/2024 - 6/13/2024	EUT Type: Portable Tablet	Page 175 of 186



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	165	11	-78.67	7.22	35.55	-59.70	-13.00	-46.70
5160.00	V	130	18	-76.49	10.65	41.16	-54.10	-13.00	-41.10
6880.00	V	-	-	-81.91	13.86	38.95	-56.30	-13.00	-43.30
8600.00	V	-	-	-83.14	16.34	40.20	-55.06	-13.00	-42.06
10320.00	V	-	-	-82.81	19.23	43.42	-51.84	-13.00	-38.84

Table 7-66. Radiated Spurious Data (LTE Band 66/4 – Low Channel) – Ant2

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	201	226	-78.13	7.16	36.03	-59.23	-13.00	-46.23
5235.00	V	104	11	-75.87	10.29	41.42	-53.84	-13.00	-40.84
6980.00	V	-	-	-82.01	13.87	38.86	-56.40	-13.00	-43.40
8725.00	V	-	-	-82.67	16.38	40.71	-54.55	-13.00	-41.55
10470.00	V	-	-	-83.18	19.31	43.13	-52.13	-13.00	-39.13

Table 7-67. Radiated Spurious Data (LTE Band 66/4 – Mid Channel) – Ant2

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	192	217	-76.97	7.31	37.34	-57.92	-13.00	-44.92
5310.00	V	116	4	-77.56	10.65	40.09	-55.16	-13.00	-42.16
7080.00	V	-	-	-81.89	14.20	39.31	-55.95	-13.00	-42.95
8850.00	V	-	-	-82.51	16.69	41.18	-54.08	-13.00	-41.08
10620.00	V	-	-	-82.97	19.71	43.74	-51.52	-13.00	-38.52

Table 7-68. Radiated Spurious Data (LTE Band 66/4 – High Channel) – Ant2

FCC ID: A3LSMX828U	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.

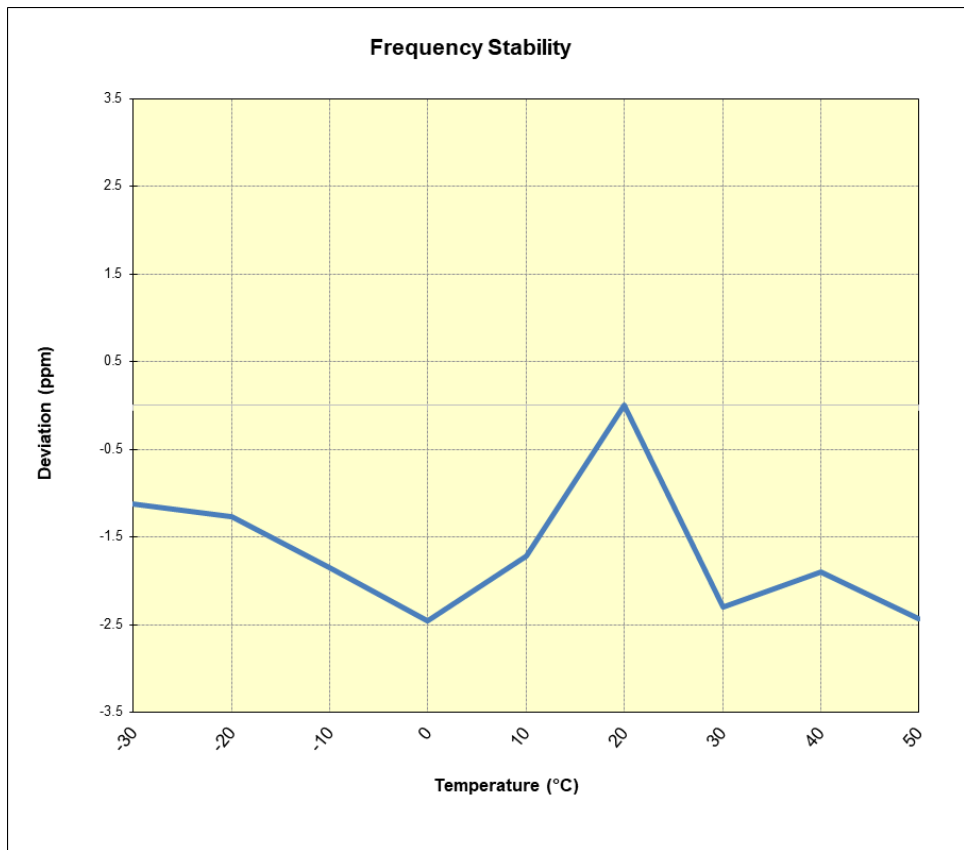
Test Notes

None

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LTE Band 71					
Operating Frequency (Hz):		680,500,000			
Ref. Voltage (VDC):		3.863			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.863	- 30	680,600,008	-760	-0.0001117
		- 20	680,599,906	-862	-0.0001267
		- 10	680,599,510	-1,258	-0.0001848
		0	680,599,095	-1,673	-0.0002458
		+ 10	680,599,600	-1,168	-0.0001716
		+ 20 (Ref)	680,600,768	0	0.0000000
		+ 30	680,599,201	-1,567	-0.0002302
		+ 40	680,599,479	-1,289	-0.0001894
Battery Endpoint	3.174	+ 20	680,599,521	-1,247	-0.0001832

Table 7-69. LTE Band 71 Frequency Stability Data

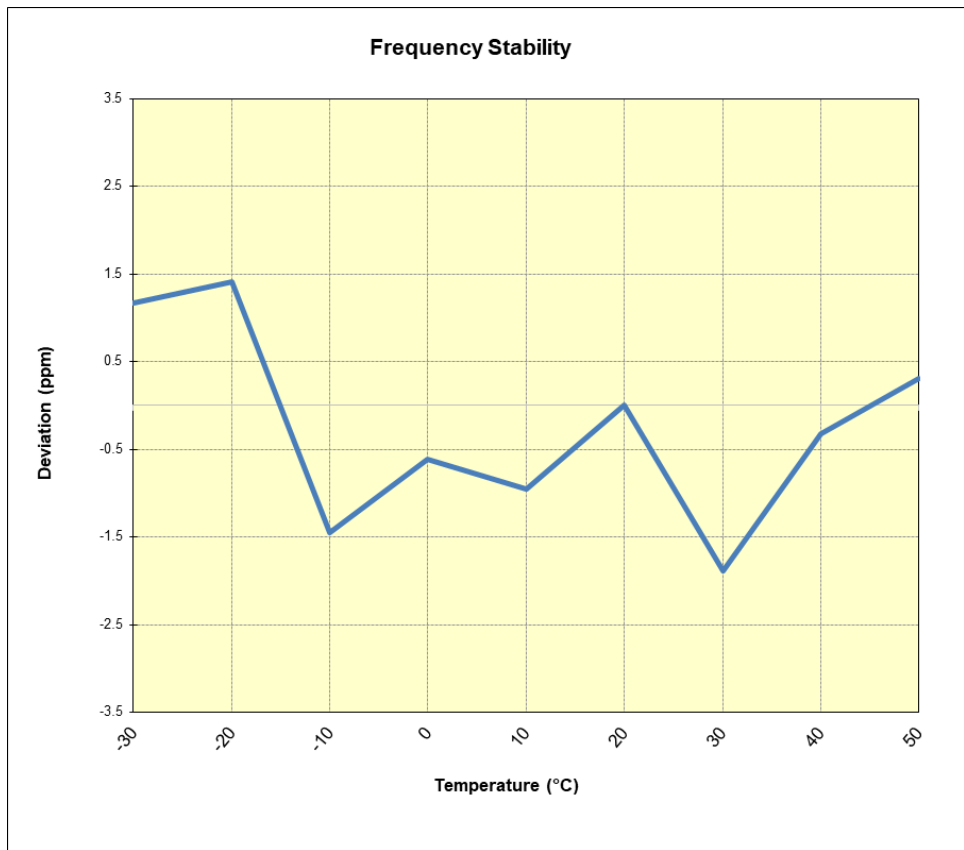


Plot 7-221. LTE Band 71 Frequency Stability Chart

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LTE Band 12					
Operating Frequency (Hz):		707,500,000			
Ref. Voltage (VDC):		3.863			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.863	- 30	707,599,174	826	0.0001167
		- 20	707,599,345	997	0.0001409
		- 10	707,597,326	-1,022	-0.0001444
		0	707,597,913	-435	-0.0000615
		+ 10	707,597,674	-674	-0.0000953
		+ 20 (Ref)	707,598,348	0	0.0000000
		+ 30	707,597,014	-1,334	-0.0001885
		+ 40	707,598,124	-224	-0.0000317
Battery Endpoint	3.174	+ 20	707,599,577	1,229	0.0001737

Table 7-70. LTE Band 12 Frequency Stability Data

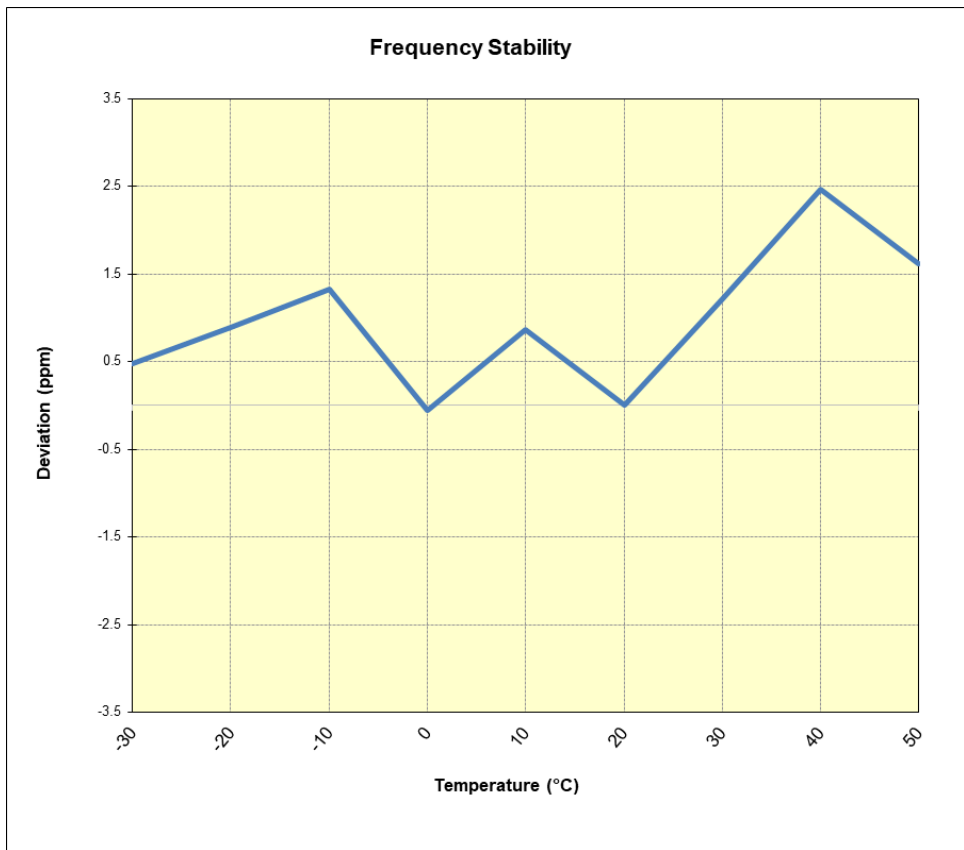


Plot 7-222. LTE Band 12 Frequency Stability Chart

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 13					
Operating Frequency (Hz):		782,000,000			
Ref. Voltage (VDC):		3.863			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.863	- 30	782,090,556	373	0.0000477
		- 20	782,090,879	696	0.0000890
		- 10	782,091,222	1,039	0.0001328
		0	782,090,140	-43	-0.0000055
		+ 10	782,090,861	678	0.0000867
		+ 20 (Ref)	782,090,183	0	0.0000000
		+ 30	782,091,131	948	0.0001212
		+ 40	782,092,111	1,928	0.0002465
Battery Endpoint	3.174	+ 20	782,092,044	1,861	0.0002380

Table 7-71. LTE Band 13 Frequency Stability Data

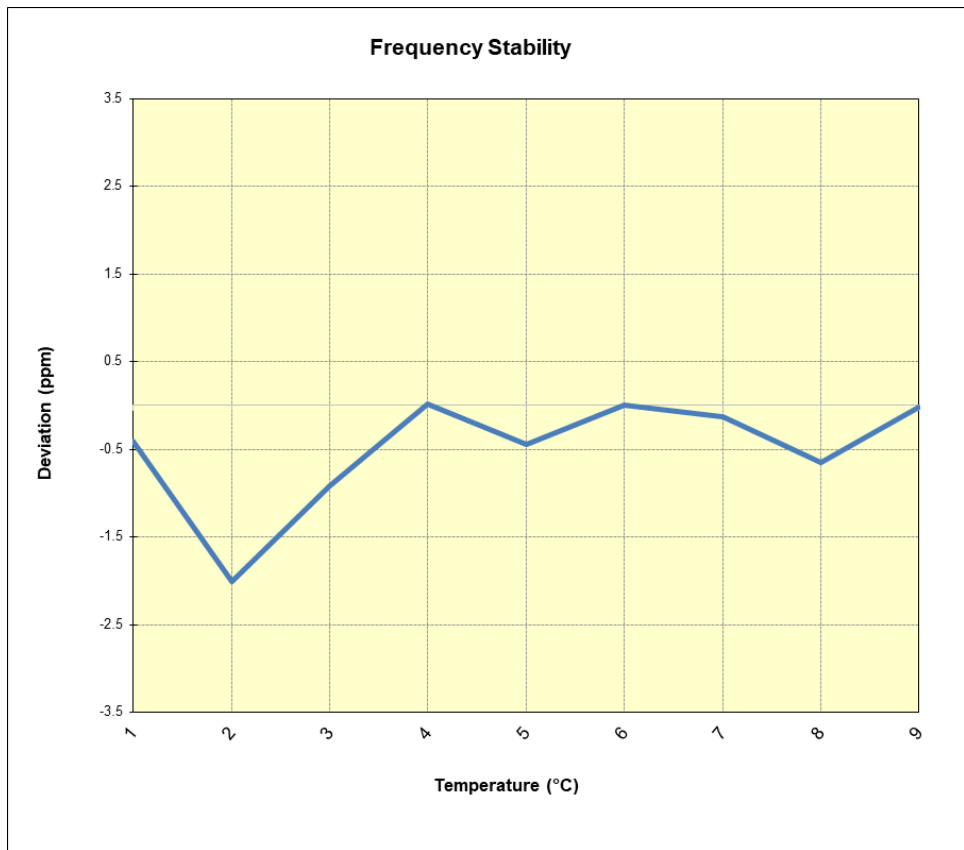


Plot 7-223. LTE Band 13 Frequency Stability Chart

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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LTE Band 66/4					
Operating Frequency (Hz):		1,745,000,000			
Ref. Voltage (VDC):		3.863			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.863	- 30	1,745,098,543	-709	-0.0000406
		- 20	1,745,095,760	-3,492	-0.0002001
		- 10	1,745,097,644	-1,608	-0.0000921
		0	1,745,099,291	39	0.0000022
		+ 10	1,745,098,479	-773	-0.0000443
		+ 20 (Ref)	1,745,099,252	0	0.0000000
		+ 30	1,745,099,023	-229	-0.0000131
		+ 40	1,745,098,122	-1,130	-0.0000648
		+ 50	1,745,099,222	-30	-0.0000017
Battery Endpoint	3.174	+ 20	1,745,098,246	-1,006	-0.0000576

Table 7-72. LTE Band 66/4 Frequency Stability Data

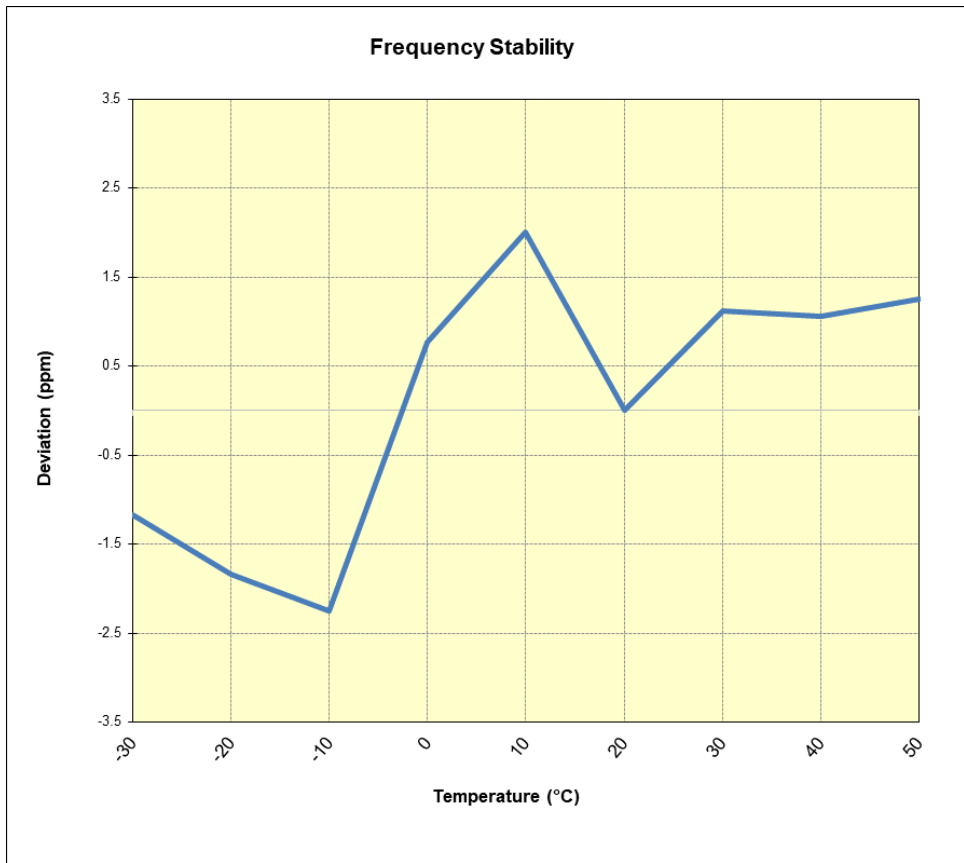


Plot 7-224. LTE Band 66/4 Frequency Stability Chart

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n71					
Operating Frequency (Hz):		680,500,000			
Ref. Voltage (VDC):		3.863			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.863	- 30	680,599,893	-800	-0.0001175
		- 20	680,599,444	-1,249	-0.0001835
		- 10	680,599,159	-1,534	-0.0002254
		0	680,601,214	521	0.0000766
		+ 10	680,602,055	1,362	0.0002001
		+ 20 (Ref)	680,600,693	0	0.0000000
		+ 30	680,601,457	764	0.0001123
		+ 40	680,601,417	724	0.0001064
Battery Endpoint	3.174	+ 20	680,601,244	551	0.0000810

Table 7-73. NR Band n71 Frequency Stability Data

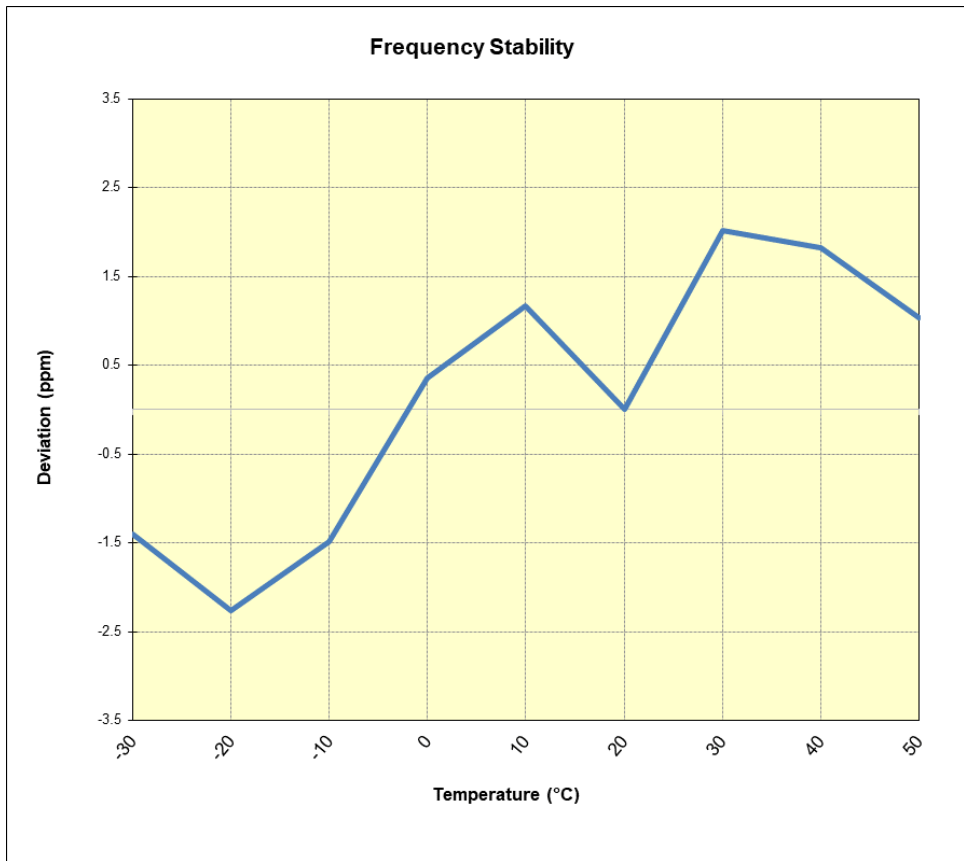


Plot 7-225. NR Band n71 Frequency Stability Chart

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n12					
Operating Frequency (Hz):		707,500,000			
Ref. Voltage (VDC):		3.863			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.863	- 30	707,599,726	-995	-0.0001406
		- 20	707,599,117	-1,604	-0.0002267
		- 10	707,599,671	-1,050	-0.0001484
		0	707,600,974	253	0.0000358
		+ 10	707,601,547	826	0.0001167
		+ 20 (Ref)	707,600,721	0	0.0000000
		+ 30	707,602,147	1,426	0.0002015
		+ 40	707,602,011	1,290	0.0001823
Battery Endpoint	3.174	+ 20	707,601,522	801	0.0001132

Table 7-74. NR Band n12 Frequency Stability Data

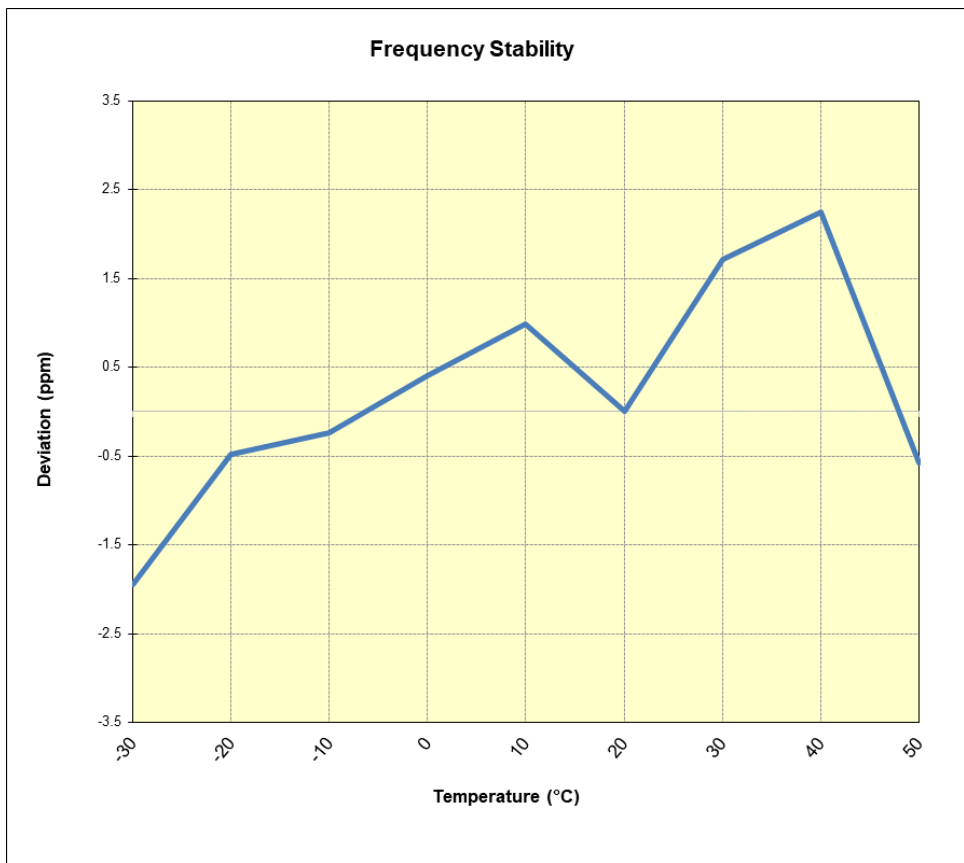


Plot 7-226. NR Band n12 Frequency Stability Chart

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n70					
Operating Frequency (Hz):		1,702,500,000			
Ref. Voltage (VDC):		3.863			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.863	- 30	1,702,630,106	-3,319	-0.0001949
		- 20	1,702,632,599	-826	-0.0000485
		- 10	1,702,633,014	-411	-0.0000241
		0	1,702,634,121	696	0.0000409
		+ 10	1,702,635,100	1,675	0.0000984
		+ 20 (Ref)	1,702,633,425	0	0.0000000
		+ 30	1,702,636,333	2,908	0.0001708
		+ 40	1,702,637,254	3,829	0.0002249
Battery Endpoint	3.174	+ 20	1,702,633,222	-203	-0.0000119

Table 7-75. NR Band n70 Frequency Stability Data

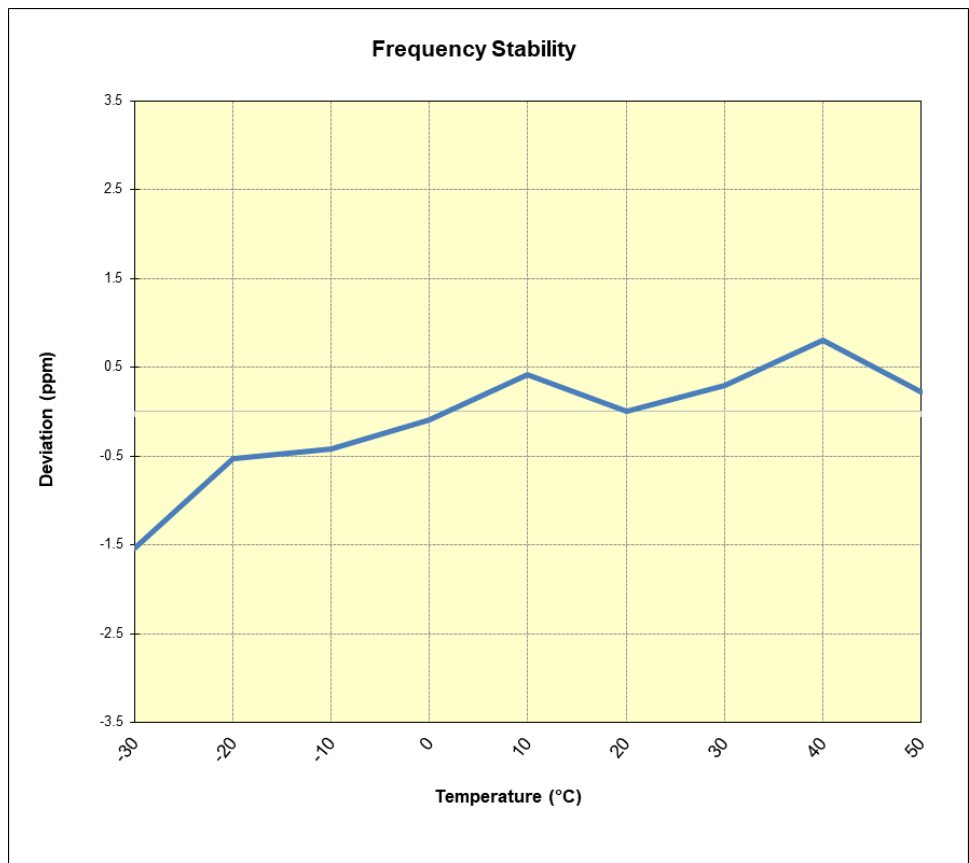


Plot 7-227. NR Band n70 Frequency Stability Chart

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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NR Band n66					
Operating Frequency (Hz):		1,745,000,000			
Ref. Voltage (VDC):		3.863			
Deviation Limit:		± 0.00025% or 2.5 ppm			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.863	- 30	1,745,132,038	-2,679	-0.0001535
		- 20	1,745,133,789	-928	-0.0000532
		- 10	1,745,133,978	-739	-0.0000423
		0	1,745,134,547	-170	-0.0000097
		+ 10	1,745,135,441	724	0.0000415
		+ 20 (Ref)	1,745,134,717	0	0.0000000
		+ 30	1,745,135,227	510	0.0000292
		+ 40	1,745,136,122	1,405	0.0000805
Battery Endpoint	3.174	+ 20	1,745,137,222	2,505	0.0001435

Table 7-76. NR Band n66 Frequency Stability Data



Plot 7-228. NR Band n66 Frequency Stability Chart

FCC ID: A3LSMX828U	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Tablet FCC ID: A3LSMX828U** complies with all the requirements of Part 27 of the FCC rules.

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