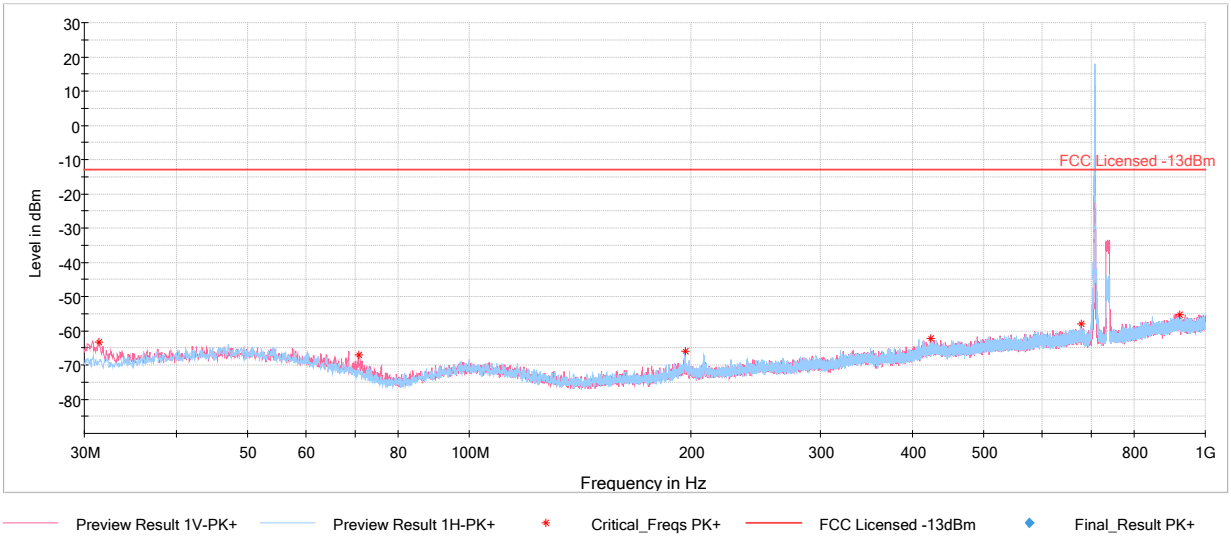
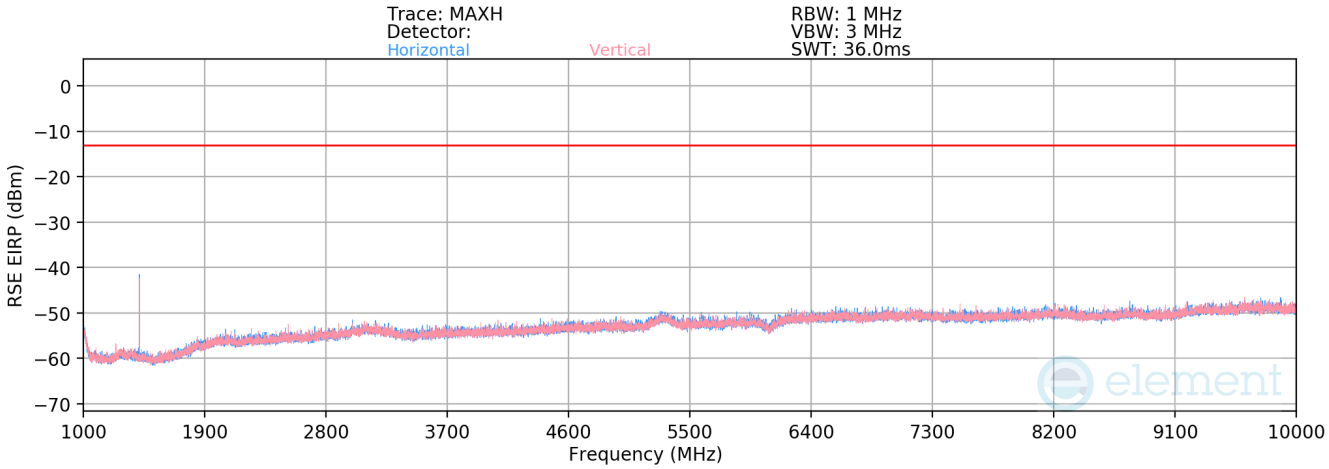
LTE Band 12 – Ant2



Plot 7-197. Radiated Spurious Plot (LTE Band 12) – Ant2



Plot 7-198. Radiated Spurious Plot (LTE Band 12) – Ant2

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	308	280	-58.18	-4.03	44.79	-50.47	-13.00	-37.47
2112.00	H	129	237	-75.13	-0.54	31.33	-63.93	-13.00	-50.93
2816.00	V	-	-	-77.39	1.14	30.75	-64.50	-13.00	-51.50
3520.00	V	-	-	-77.85	2.00	31.15	-64.11	-13.00	-51.11
4224.00	V	-	-	-78.61	3.40	31.79	-63.47	-13.00	-50.47

Table 7-38. Radiated Spurious Data (LTE Band 12 – Low Channel) – Ant2

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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	288	258	-56.89	-4.05	46.06	-49.20	-13.00	-36.20
2122.50	H	158	234	-74.18	-0.64	32.18	-63.08	-13.00	-50.08
2830.00	V	-	-	-77.05	1.06	31.01	-64.24	-13.00	-51.24
3537.50	V	-	-	-77.78	2.03	31.25	-64.01	-13.00	-51.01
4245.00	V	-	-	-78.60	3.44	31.84	-63.42	-13.00	-50.42

Table 7-39. Radiated Spurious Data (LTE Band 12 – Mid Channel) – Ant2

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	378	280	-58.18	-4.08	44.74	-50.51	-13.00	-37.51
2133.00	H	149	228	-74.49	-0.71	31.80	-63.45	-13.00	-50.45
2844.00	V	-	-	-76.92	1.02	31.10	-64.16	-13.00	-51.16
3555.00	V	-	-	-77.87	2.02	31.15	-64.11	-13.00	-51.11
4266.00	V	-	-	-78.77	3.41	31.64	-63.62	-13.00	-50.62

Table 7-40. Radiated Spurious Data (LTE Band 12 – High Channel) – Ant2

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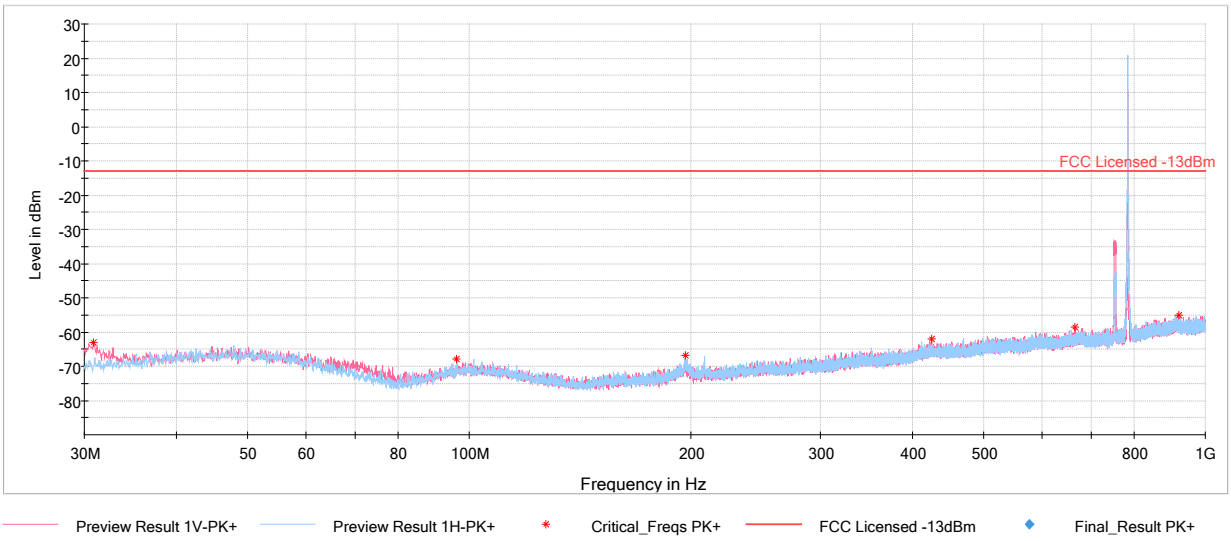
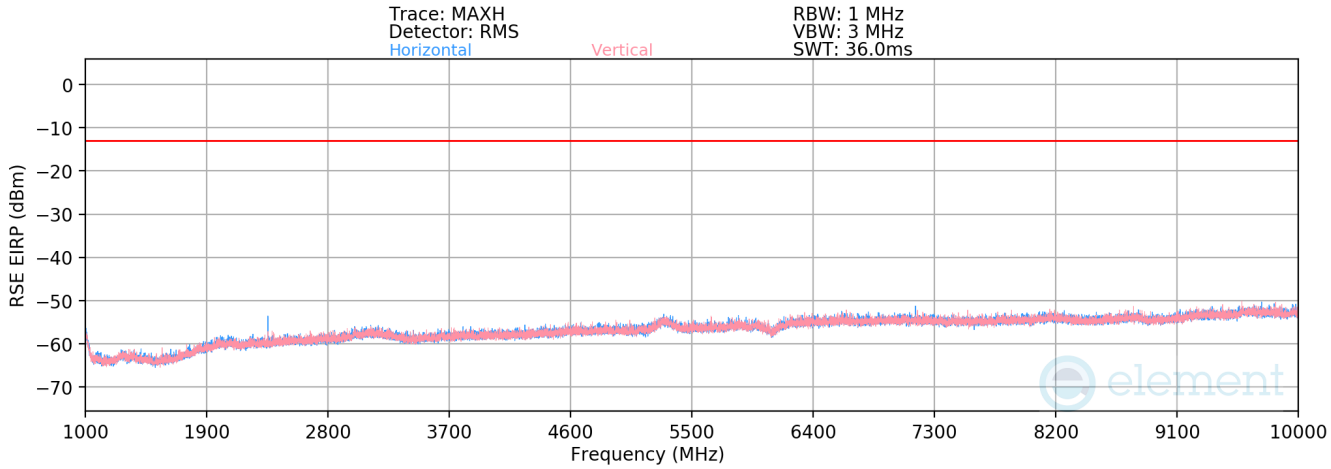
LTE Band 13 – Ant2



Plot 7-199. Radiated Spurious Plot (LTE Band 13) – Ant2



Plot 7-200. Radiated Spurious Plot (LTE Band 13) – Ant2

Bandwidth (MHz):	5
Frequency (MHz):	779.5
RB / Offset:	1 / 12

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]
1559.00	V	247	234	-74.41	-4.64	27.95	-67.30	-40.00	-27.30
2338.50	V	186	298	-75.97	-0.32	30.71	-64.55	-13.00	-51.55
3118.00	H	-	-	-77.26	2.55	32.29	-62.97	-13.00	-49.97
3897.50	H	110	357	-77.39	2.67	32.28	-62.98	-13.00	-49.98
4677.00	H	149	347	-77.94	4.54	33.60	-61.66	-13.00	-48.66
5456.50	H	-	-	-79.82	5.99	33.17	-62.09	-13.00	-49.09
6236.00	H	-	-	-80.52	7.82	34.30	-60.96	-13.00	-47.96
7015.50	H	-	-	-80.52	8.04	34.52	-60.73	-13.00	-47.73

Table 7-41. Radiated Spurious Data (LTE Band 13 – Low Channel) – Ant2

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Bandwidth (MHz):	5
Frequency (MHz):	782
RB / Offset:	1 / 12

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	247	246	-72.97	-4.61	29.42	-65.84	-40.00	-25.84
2346.00	H	121	240	-75.91	-0.36	30.73	-64.53	-13.00	-51.53
3128.00	H	-	-	-77.44	2.50	32.06	-63.20	-13.00	-50.20
3910.00	H	-	-	-78.31	2.67	31.36	-63.90	-13.00	-50.90
4692.00	H	105	11	-78.13	4.38	33.25	-62.01	-13.00	-49.01
5474.00	H	-	-	-79.81	6.13	33.32	-61.94	-13.00	-48.94
6256.00	H	-	-	-80.49	7.88	34.39	-60.87	-13.00	-47.87
7038.00	H	-	-	-80.54	8.14	34.60	-60.66	-13.00	-47.66

Table 7-42. Radiated Spurious Data (LTE Band 13 – Mid Channel) – Ant2

Bandwidth (MHz):	5
Frequency (MHz):	784.5
RB / Offset:	1 / 12

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]
1569.00	V	251	261	-72.50	-4.61	29.89	-65.37	-40.00	-25.37
2353.50	H	149	177	-73.65	-0.36	32.99	-62.27	-13.00	-49.27
3138.00	H	-	-	-77.24	2.50	32.26	-63.00	-13.00	-50.00
3922.50	V	102	18	-77.08	2.67	32.59	-62.67	-13.00	-49.67
4707.00	V	-	-	-78.95	4.38	32.43	-62.83	-13.00	-49.83
5491.50	V	-	-	-79.64	6.13	33.49	-61.77	-13.00	-48.77
6276.00	V	-	-	-80.52	7.88	34.36	-60.90	-13.00	-47.90

Table 7-43. Radiated Spurious Data (LTE Band 13 – High Channel) – Ant2

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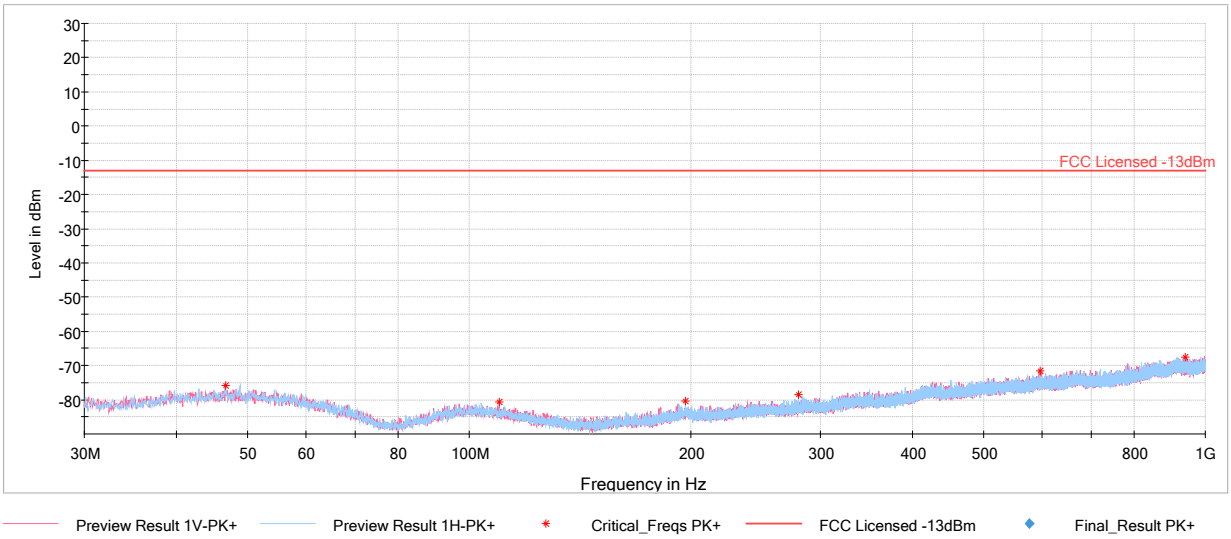
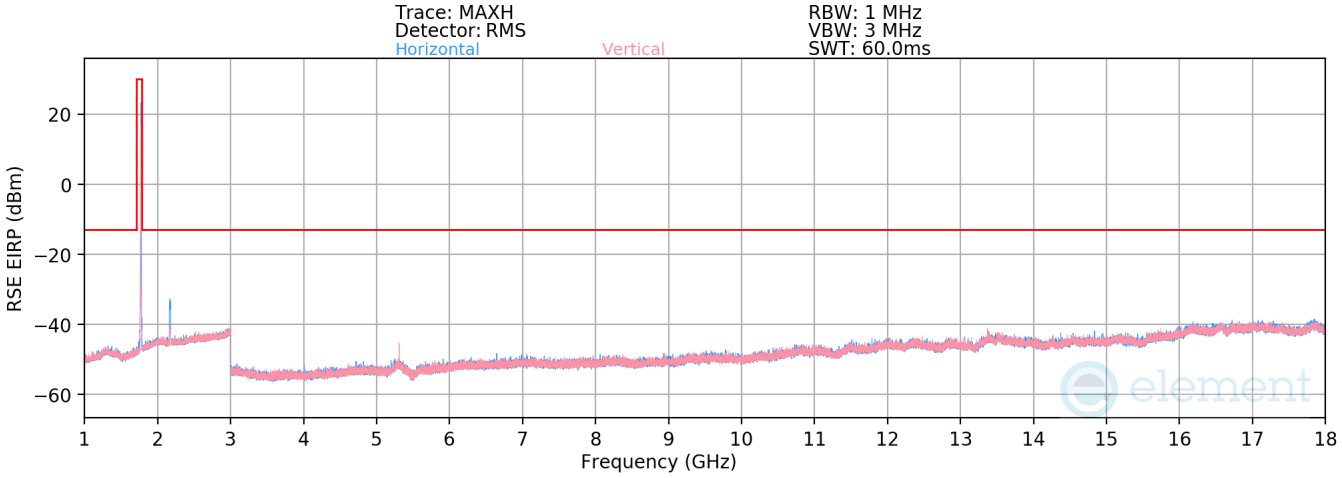
LTE Band 66/4 – Ant2



Plot 7-201. Radiated Spurious Plot (LTE Band 66/4) – Ant2



Plot 7-202. Radiated Spurious Plot (LTE Band 66/4) – Ant2

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	-	-	-78.30	2.75	31.45	-63.80	-13.00	-50.80
5160.00	V	106	228	-72.93	5.46	39.53	-55.73	-13.00	-42.73
6880.00	V	-	-	-80.70	8.21	34.51	-60.75	-13.00	-47.75
8600.00	V	-	-	-80.48	8.01	34.53	-60.73	-13.00	-47.73
10320.00	V	-	-	-81.15	10.63	36.48	-58.77	-13.00	-45.77

Table 7-44. Radiated Spurious Data (LTE Band 66/4 – Low Channel) – Ant2

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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	337	240	-77.47	2.44	31.97	-63.29	-13.00	-50.29
5235.00	V	337	210	-73.32	6.30	39.98	-55.28	-13.00	-42.28
6980.00	V	-	-	-80.33	7.78	34.45	-60.80	-13.00	-47.80
8725.00	V	-	-	-80.82	8.66	34.84	-60.42	-13.00	-47.42
10470.00	V	-	-	-81.57	11.03	36.46	-58.80	-13.00	-45.80

Table 7-45. 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	304	190	-77.11	2.01	31.90	-63.36	-13.00	-50.36
5310.00	V	259	216	-70.39	7.24	43.85	-51.41	-13.00	-38.41
7080.00	V	-	-	-80.55	7.98	34.43	-60.83	-13.00	-47.83
8850.00	V	-	-	-80.47	8.58	35.11	-60.15	-13.00	-47.15
10620.00	V	-	-	-81.43	11.57	37.14	-58.11	-13.00	-45.11

Table 7-46. Radiated Spurious Data (LTE Band 66/4 – High Channel) – Ant2

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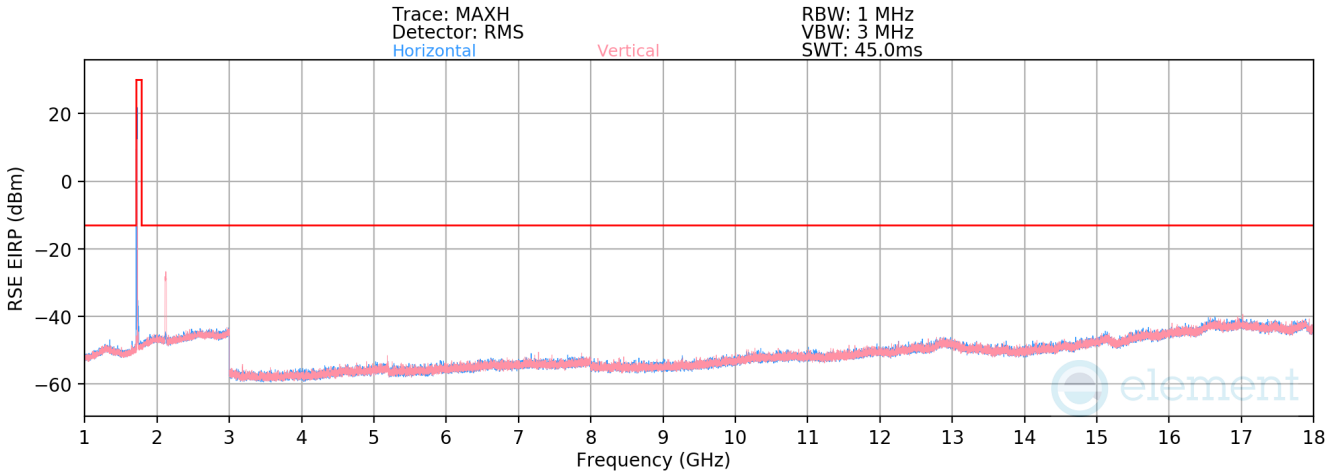
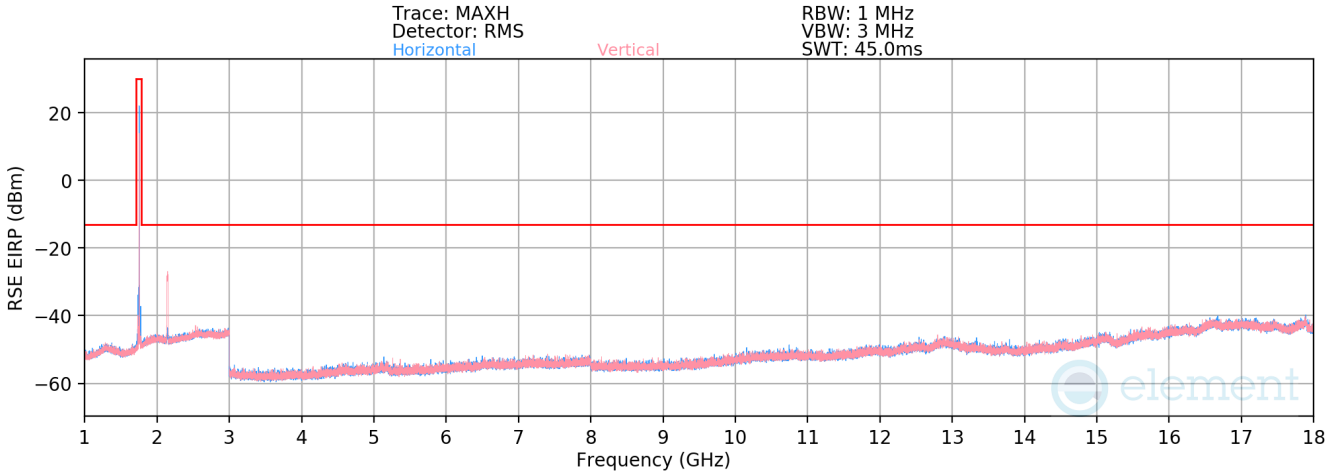
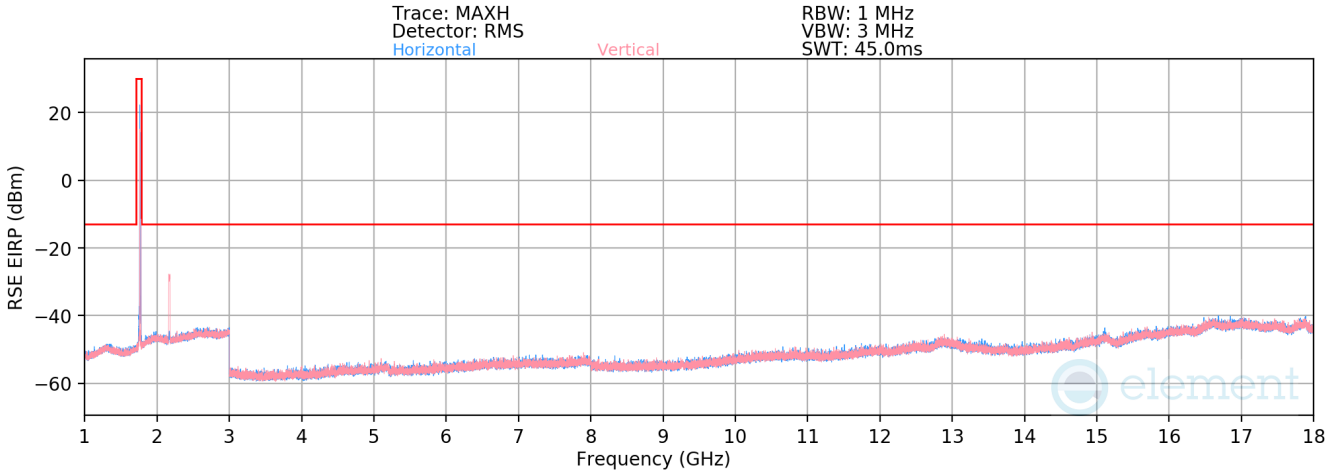
Uplink CA LTE Band 66B/C – Ant2



Plot 7-203. Radiated Spurious Plot (ULCA LTE Band 66 – Ant2 – Low Channel)



Plot 7-204. Radiated Spurious Plot (ULCA LTE Band 66 – Ant2 – Mid Channel)



Plot 7-205. Radiated Spurious Plot (ULCA LTE Band 66 – Ant2 – High Channel)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3440.00	V	-	-	-79.66	3.25	30.59	-64.66	-13.00	-51.66
5160.00	V	-	-	-81.97	6.84	31.87	-63.38	-13.00	-50.38
6880.00	V	-	-	-82.43	9.12	33.69	-61.57	-13.00	-48.57

Table 7-47. Radiated Spurious Data (ULCA LTE66 – Low Channel – Ant2)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3490.00	V	-	-	-79.91	3.54	30.63	-64.62	-13.00	-51.62
5235.00	V	-	-	-81.98	6.77	31.79	-63.47	-13.00	-50.47
6980.00	V	-	-	-82.71	9.10	33.39	-61.87	-13.00	-48.87

Table 7-48. Radiated Spurious Data (ULCA LTE66 – Mid Channel – Ant2)

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

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3540.00	V	-	-	-79.97	3.59	30.62	-64.63	-13.00	-51.63
5310.00	V	-	-	-82.23	6.96	31.73	-63.53	-13.00	-50.53
7080.00	V	-	-	-82.76	9.30	33.54	-61.71	-13.00	-48.71

Table 7-49. Radiated Spurious Data (ULCA LTE66 – High Channel – Ant2)

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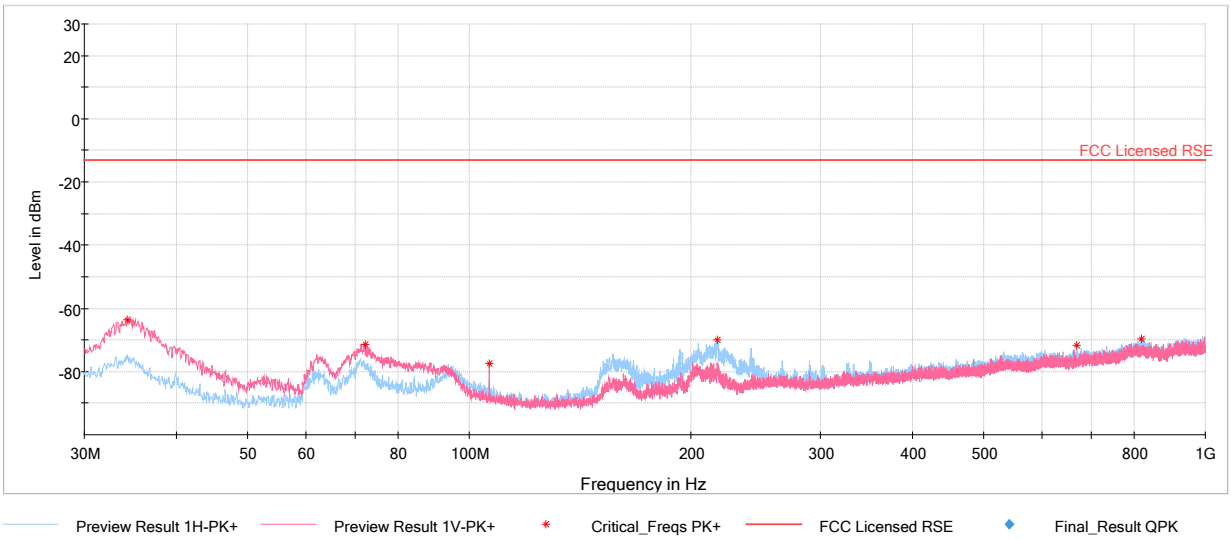
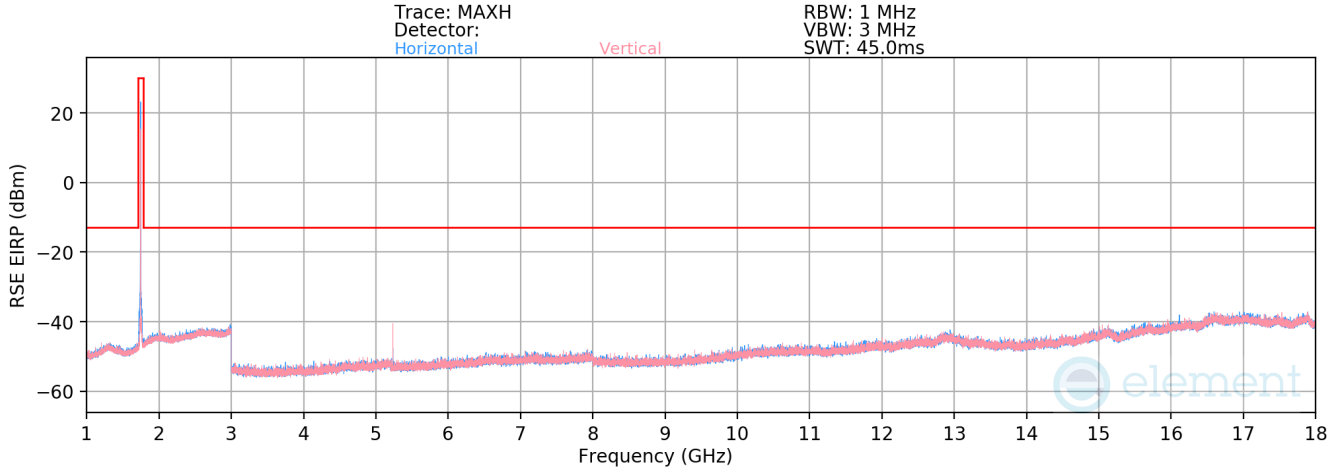
NR Band n66 – Ant2



Plot 7-206. Radiated Spurious Plot (NR Band n66) – Ant2



Plot 7-207. Radiated Spurious Plot (NR Band n66) – Ant2

Bandwidth (MHz):	40
Frequency (MHz):	1730
RB / Offset:	1 / 108
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]
3460.00	V	-	-	-79.72	3.39	30.67	-64.59	-13.00	-51.59
5190.00	V	103	189	-67.34	6.92	46.58	-48.68	-13.00	-35.68
6920.00	V	-	-	-82.58	9.18	33.60	-61.66	-13.00	-48.66
8650.00	V	-	-	-83.56	9.96	33.40	-61.86	-13.00	-48.86
10380.00	V	-	-	-83.68	12.10	35.42	-59.84	-13.00	-46.84

Table 7-50. Radiated Spurious Data (NR Band n66 – Low Channel) – Ant2

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Bandwidth (MHz):	40
Frequency (MHz):	1745
RB / Offset:	1 / 108
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]
3490.00	V	-	-	-79.60	3.54	30.94	-64.31	-13.00	-51.31
5235.00	V	102	189	-65.93	6.77	47.84	-47.42	-13.00	-34.42
6980.00	V	-	-	-82.64	9.10	33.46	-61.80	-13.00	-48.80
8725.00	V	-	-	-83.44	9.48	33.04	-62.22	-13.00	-49.22
10470.00	V	-	-	-83.66	12.29	35.63	-59.63	-13.00	-46.63

Table 7-51. Radiated Spurious Data (NR Band n66 – Mid Channel) – Ant2

Bandwidth (MHz):	40
Frequency (MHz):	1760
RB / Offset:	1 / 108
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]
3520.00	V	-	-	-79.81	3.60	30.79	-64.47	-13.00	-51.47
5280.00	V	102	192	-67.46	6.90	46.44	-48.81	-13.00	-35.81
7040.00	V	-	-	-82.67	9.13	33.46	-61.80	-13.00	-48.80
8800.00	V	-	-	-83.51	9.48	32.97	-62.28	-13.00	-49.28
10560.00	V	-	-	-83.83	12.49	35.66	-59.59	-13.00	-46.59

Table 7-52. Radiated Spurious Data (NR Band n66 – High Channel) – Ant2

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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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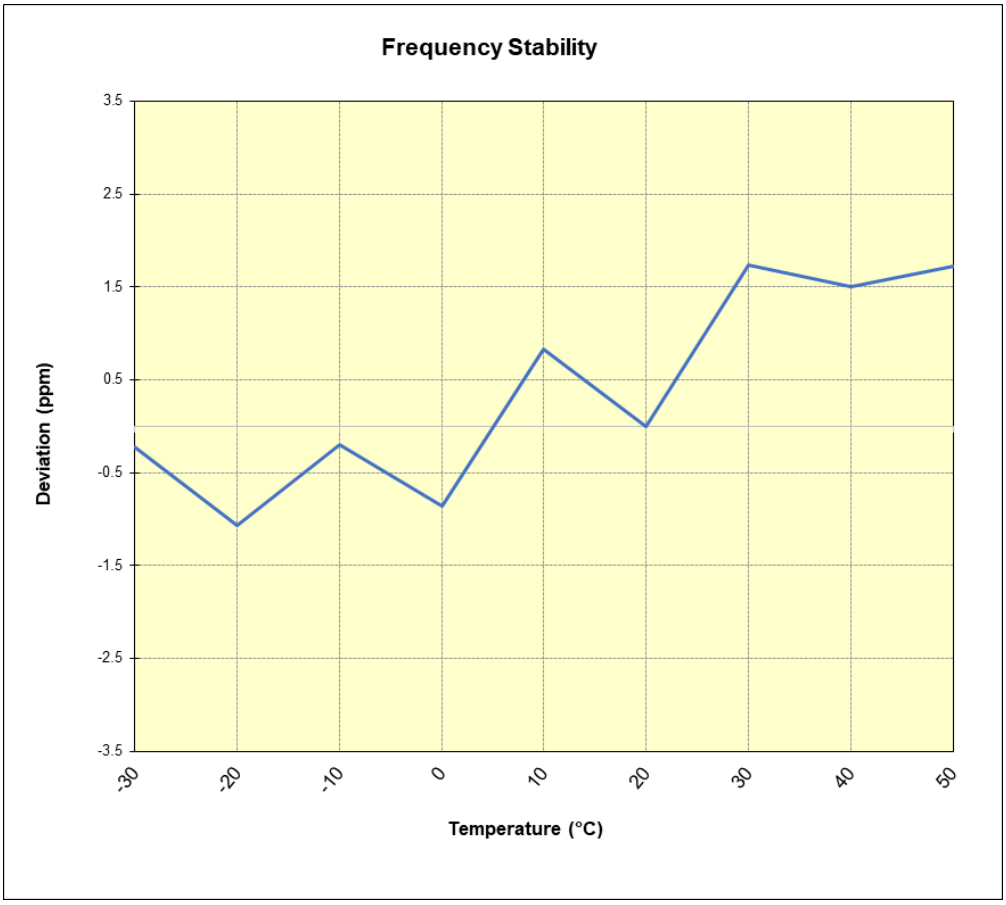
LTE Band 12

Operating Frequency (Hz):	707,500,000
Ref. Voltage (VDC):	4.27
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	707,499,856	-154	-0.0000218
		- 20	707,499,256	-754	-0.0001066
		- 10	707,499,871	-139	-0.0000196
		0	707,499,402	-608	-0.0000859
		+ 10	707,500,598	588	0.0000831
		+ 20 (Ref)	707,500,010	0	0.0000000
		+ 30	707,501,239	1,229	0.0001737
		+ 40	707,501,078	1,068	0.0001510
		+ 50	707,501,234	1,224	0.0001730
Battery Endpoint	3.68	+ 20	707,500,000	-10	-0.0000014

Table 7-53. LTE Band 12 Frequency Stability Data



Plot 7-208. LTE Band 12 Frequency Stability Chart

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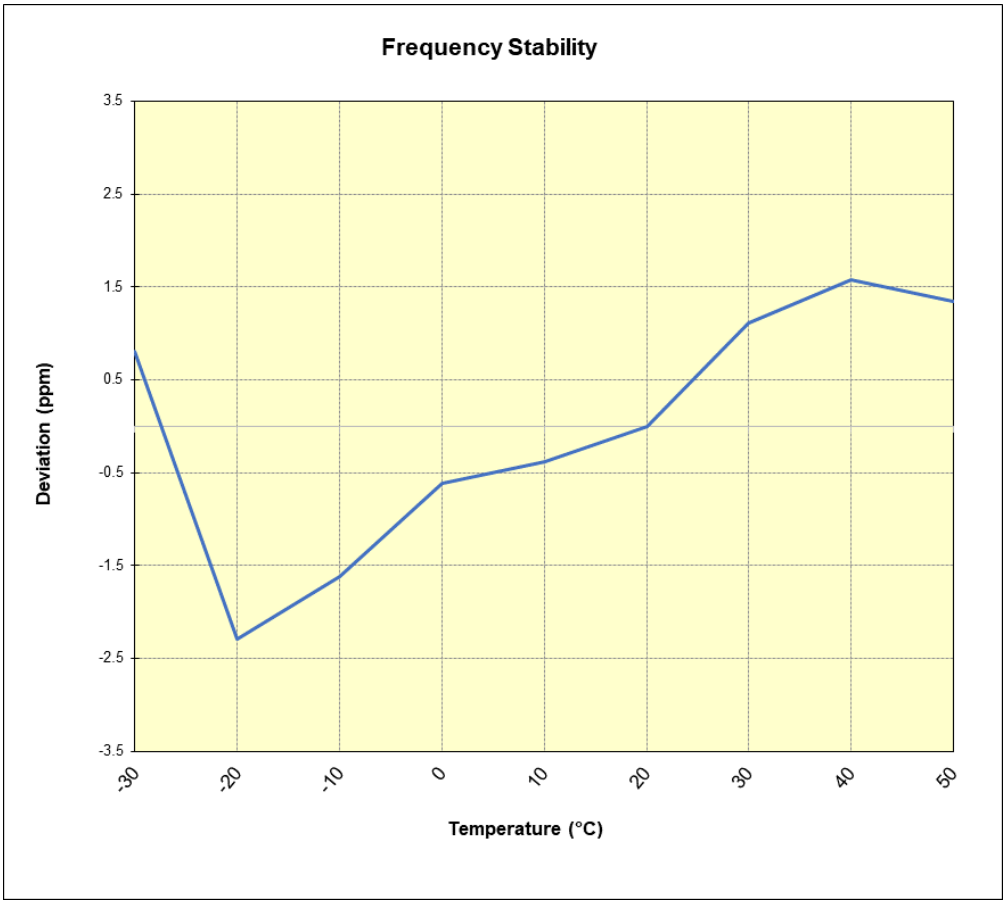
LTE Band 13

Operating Frequency (Hz):	782,000,000
Ref. Voltage (VDC):	4.27
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	782,000,999	630	0.0000806
		- 20	781,998,579	-1,790	-0.0002289
		- 10	781,999,104	-1,265	-0.0001618
		0	781,999,889	-480	-0.0000614
		+ 10	782,000,069	-300	-0.0000384
		+ 20 (Ref)	782,000,369	0	0.0000000
		+ 30	782,001,237	868	0.0001110
		+ 40	782,001,604	1,235	0.0001579
		+ 50	782,001,421	1,052	0.0001345
Battery Endpoint	3.68	+ 20	782,000,999	630	0.0000806

Table 7-54. LTE Band 13 Frequency Stability Data



Plot 7-209. LTE Band 13 Frequency Stability Chart

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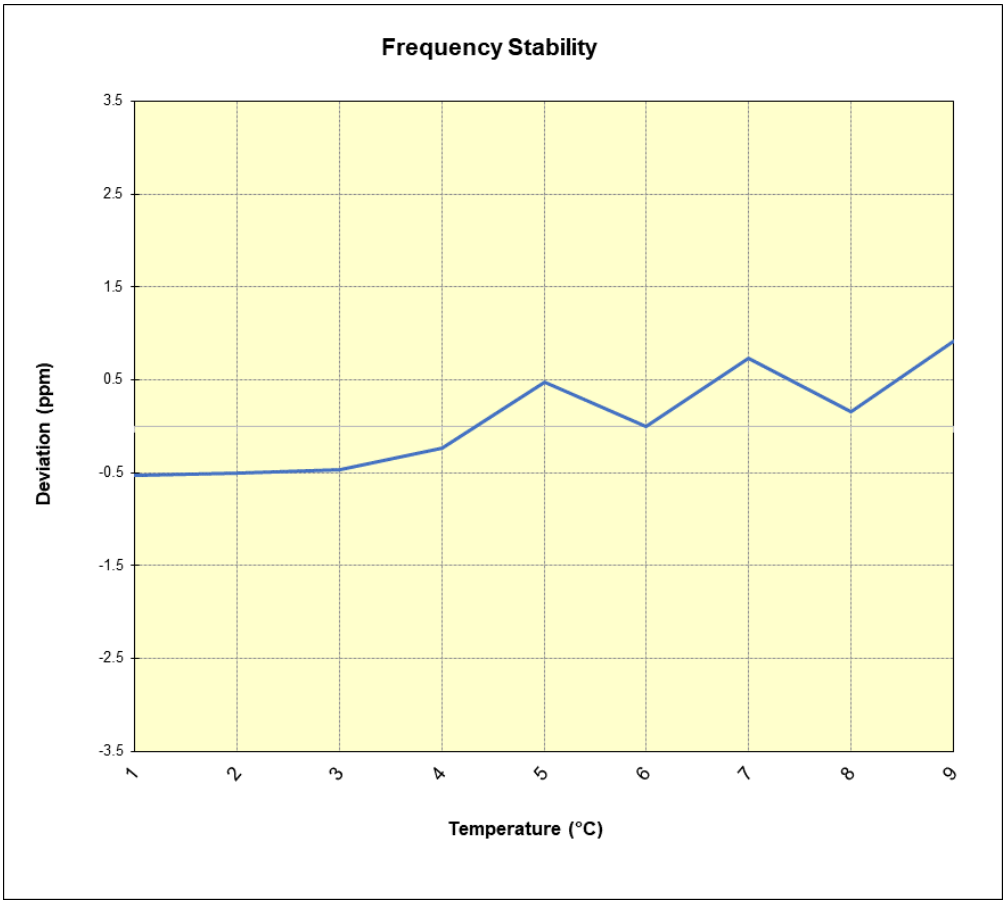
LTE Band 66/4

Operating Frequency (Hz):	1,745,000,000
Ref. Voltage (VDC):	4.27
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	1,745,001,498	-922	-0.0000528
		- 20	1,745,001,532	-888	-0.0000509
		- 10	1,745,001,599	-821	-0.0000470
		0	1,745,002,011	-409	-0.0000234
		+ 10	1,745,003,247	827	0.0000474
		+ 20 (Ref)	1,745,002,420	0	0.0000000
		+ 30	1,745,003,698	1,278	0.0000732
		+ 40	1,745,002,699	279	0.0000160
		+ 50	1,745,004,014	1,594	0.0000913
Battery Endpoint	3.68	+ 20	1,745,006,259	3,839	0.0002200

Table 7-55. LTE Band 66/4 Frequency Stability Data



Plot 7-210. LTE Band 66/4Frequency Stability Chart

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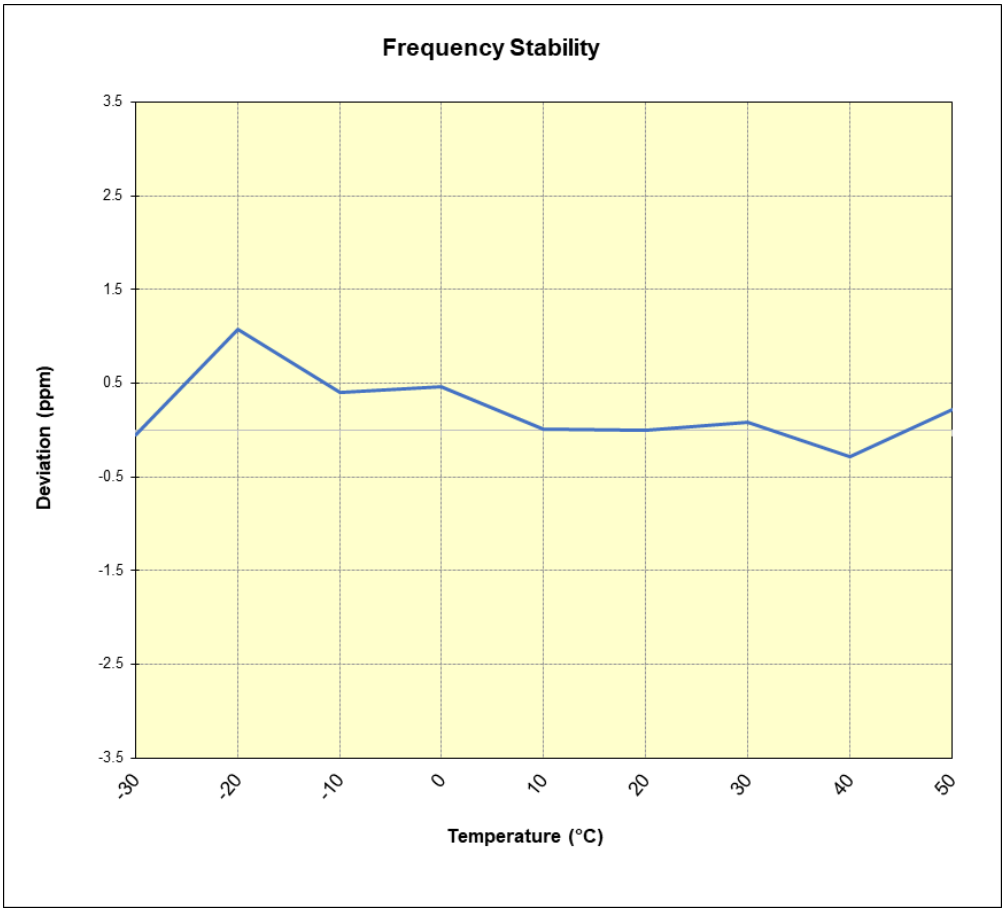
NR Band n66

Operating Frequency (Hz):	1,745,000,000
Ref. Voltage (VDC):	4.27
Deviation Limit:	± 0.00025% or 2.5 ppm

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	4.27	- 30	1,744,992,394	-85	-0.0000049
		- 20	1,744,994,363	1,884	0.0001080
		- 10	1,744,993,173	695	0.0000398
		0	1,744,993,286	807	0.0000462
		+ 10	1,744,992,487	9	0.0000005
		+ 20 (Ref)	1,744,992,479	0	0.0000000
		+ 30	1,744,992,627	148	0.0000085
		+ 40	1,744,991,983	-496	-0.0000284
		+ 50	1,744,992,867	388	0.0000223
Battery Endpoint	3.68	+ 20	1,744,993,187	709	0.0000406

Table 7-56. NR Band n66 Frequency Stability Data



Plot 7-211. NR Band n66 Frequency Stability Chart

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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS928JPN** complies with all the requirements of Part 27 of the FCC rules.

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