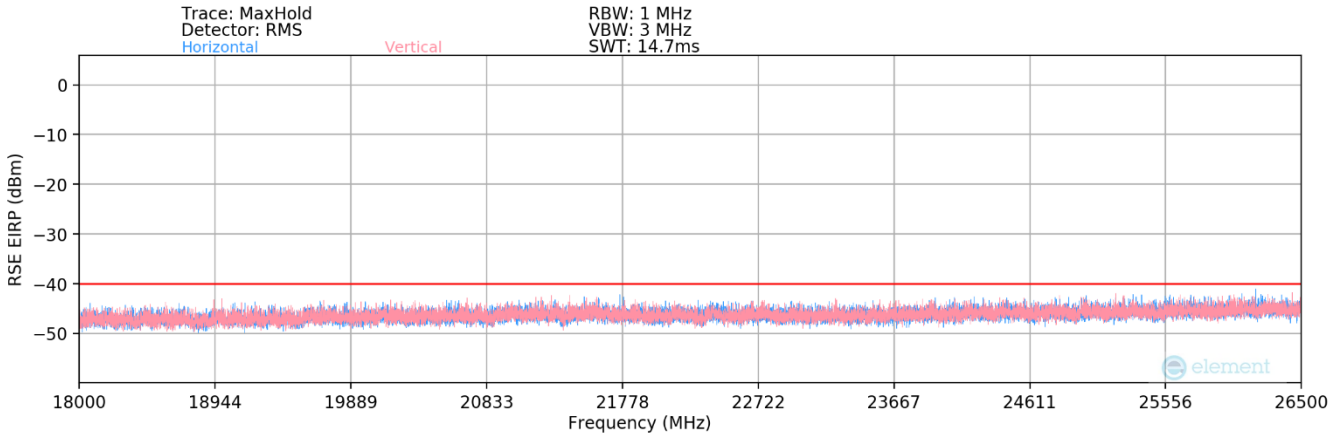


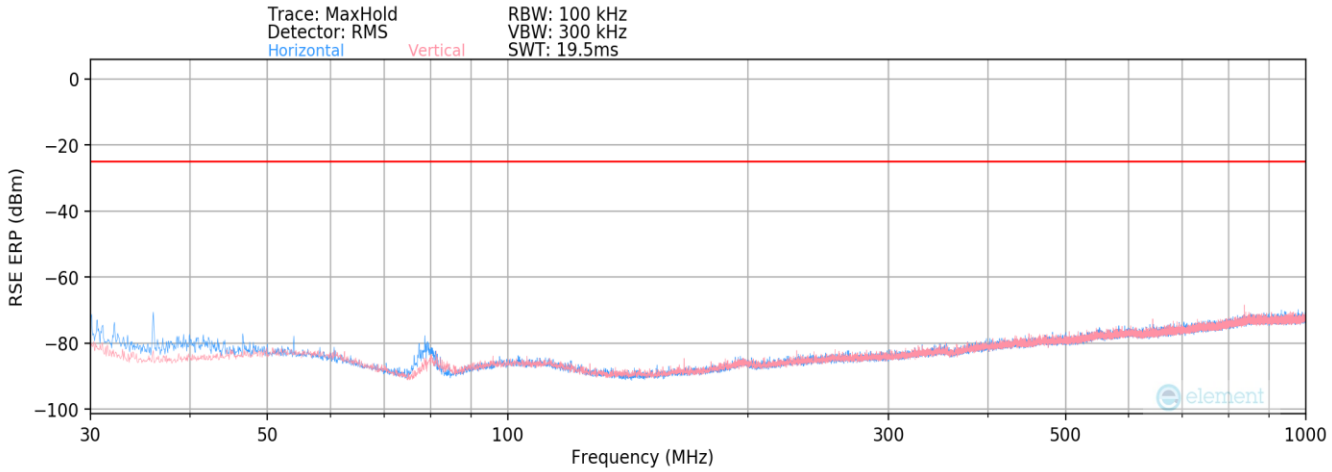
Plot 7-250. Radiated Spurious Plot Above 18GHz (LTE Band 30 – Ant1)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25
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]
4620.00	H	-	-	-78.37	4.36	32.99	-62.27	-40.00	-22.27
6930.00	H	-	-	-79.75	7.75	35.00	-60.26	-40.00	-20.26
9240.00	H	-	-	-80.03	8.79	35.76	-59.50	-40.00	-19.50

Table 7-22. Radiated Spurious Data (LTE Band 30 – Mid Channel – Ant1)

LTE Band 7 – Ant1

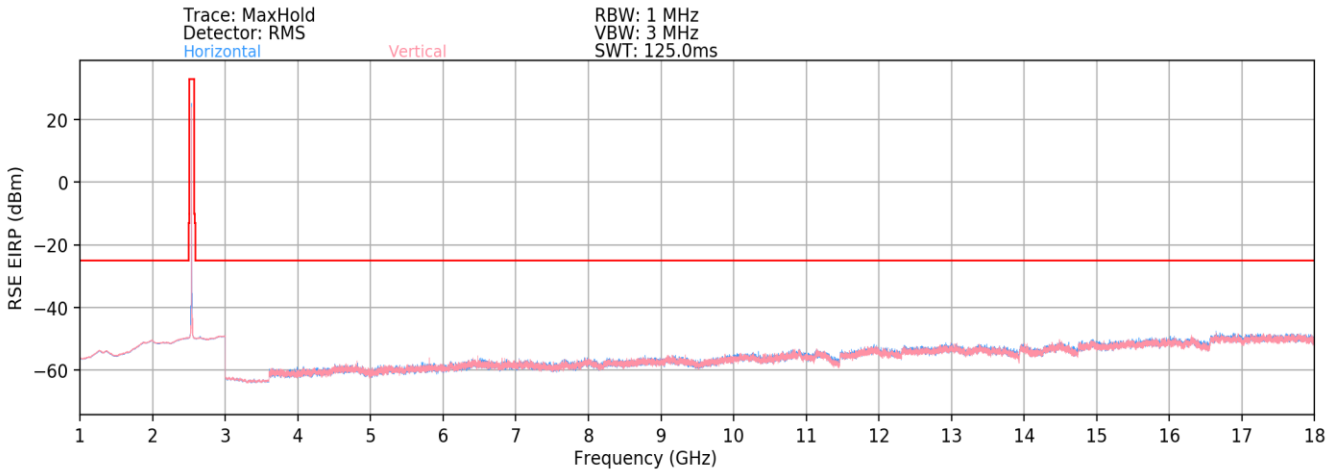


Plot 7-251. Radiated Spurious Plot Below 1GHz (LTE Band 7 – Ant1)

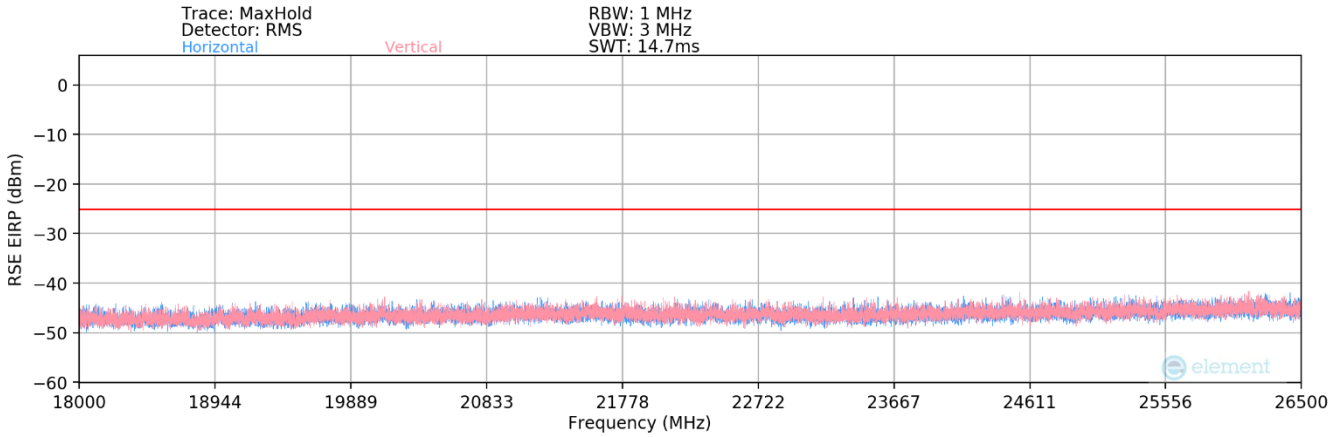
Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50
Detector / Trace Mode:	RMS / Average
RBW / VBW:	100kHz / 300kHz

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]
35.95	H	-	-	-87.20	-16.94	2.86	-94.54	-25.00	-69.54
80.00	H	200	359	-80.43	-21.49	5.08	-92.33	-25.00	-67.33
200.00	H	-	-	-89.33	-16.38	1.29	-96.12	-25.00	-71.12
500.00	H	-	-	-90.09	-9.69	7.22	-90.19	-25.00	-65.19
830.00	H	-	-	-91.13	-4.50	11.37	-86.04	-25.00	-61.04

Table 7-23. Radiated Spurious Data (LTE Band 7 – Ant1)



Plot 7-252. Radiated Spurious Plot Above 1GHz (LTE Band 7 – Ant1)



Plot 7-253. Radiated Spurious Plot Above 18GHz (LTE Band 7 – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2510.0
RB / Offset:	1 / 50
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]
5020.00	H	-	-	-78.97	4.51	32.54	-62.71	-25.00	-37.71
7530.00	H	-	-	-79.84	7.87	35.03	-60.23	-25.00	-35.23
10040.00	H	-	-	-79.86	10.41	37.55	-57.71	-25.00	-32.71

Table 7-24. Radiated Spurious Data (LTE Band 7 – Low Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2535.0
RB / Offset:	1 / 50
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]
5070.00	H	-	-	-78.83	4.71	32.88	-62.38	-25.00	-37.38
7605.00	H	-	-	-79.89	8.19	35.30	-59.96	-25.00	-34.96
10140.00	H	-	-	-80.36	11.14	37.78	-57.47	-25.00	-32.47

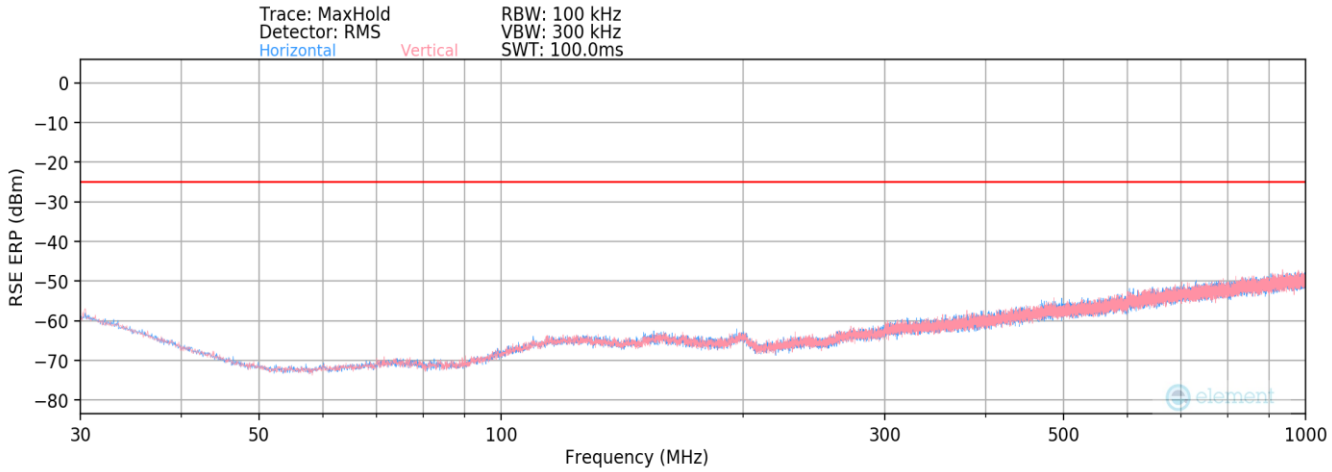
Table 7-25. Radiated Spurious Data (LTE Band 7 – Mid Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2560.0
RB / Offset:	1 / 50
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]
5120.00	H	-	-	-78.81	4.88	33.07	-62.18	-25.00	-37.18
7680.00	H	-	-	-79.05	7.54	35.49	-59.77	-25.00	-34.77
10240.00	H	-	-	-80.77	11.51	37.74	-57.52	-25.00	-32.52

Table 7-26. Radiated Spurious Data (LTE Band 7 – High Channel – Ant1)

LTE Band 41(PC2) – Ant1

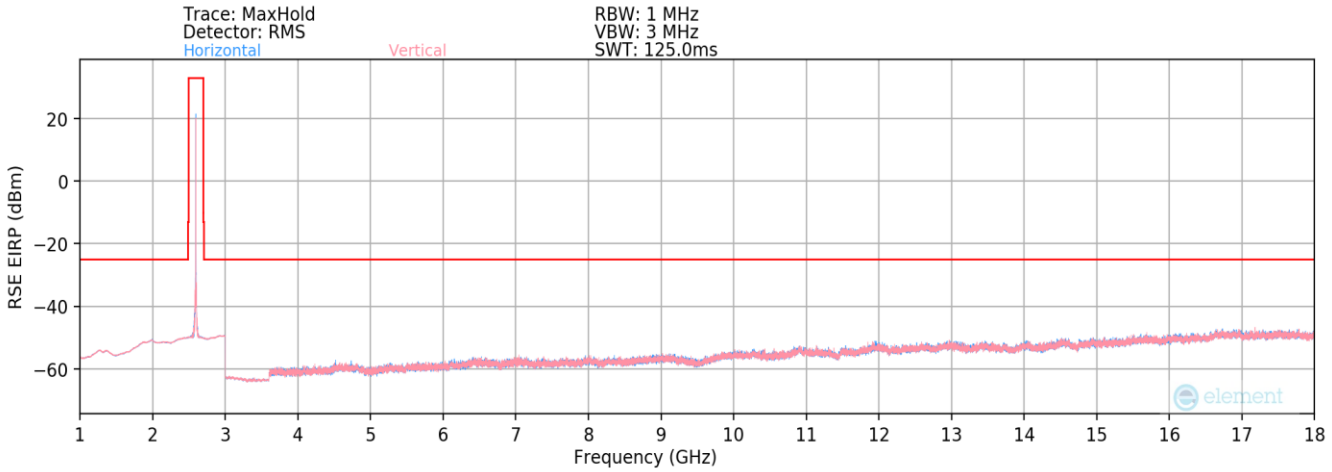


Plot 7-254. Radiated Spurious Plot Below 1GHz (LTE Band 41(PC2) – Ant1)

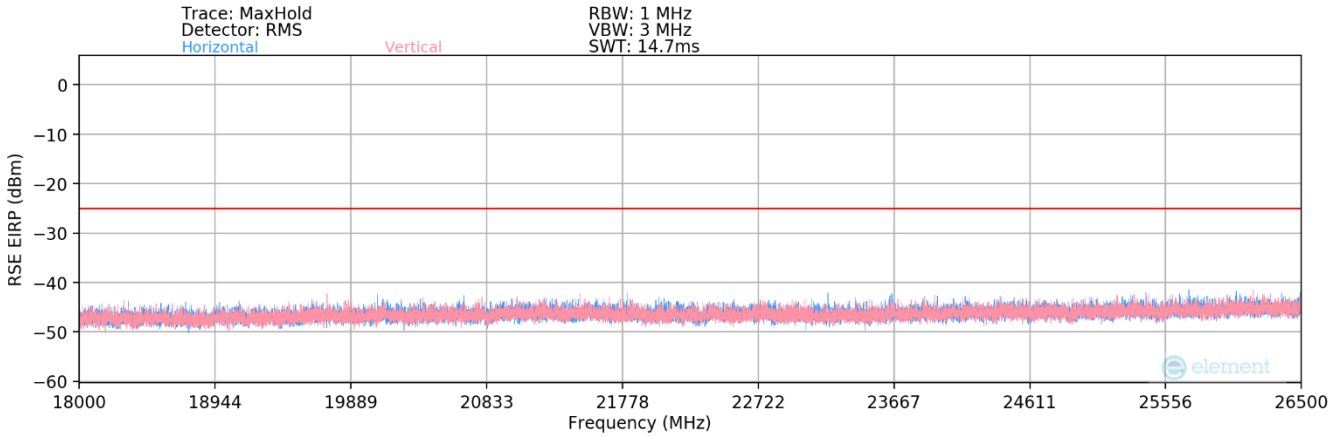
Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50
Detector / Trace Mode:	RMS / Average
RBW / VBW:	100kHz / 300kHz

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]
50.00	H	-	-	-78.92	-13.94	14.14	-83.27	-25.00	-58.27
100.00	H	-	-	-80.09	-16.53	10.38	-87.02	-25.00	-62.02
300.00	H	-	-	-89.90	-14.21	2.89	-94.51	-25.00	-69.51
500.00	H	-	-	-90.01	-9.69	7.30	-90.11	-25.00	-65.11
800.00	H	-	-	-89.34	-4.86	12.80	-84.61	-25.00	-59.61

Table 7-27. Radiated Spurious Data (LTE Band 41(PC2) – Ant1)



Plot 7-255. Radiated Spurious Plot Above 1GHz (LTE Band 41(PC2) – Ant1)



Plot 7-256. Radiated Spurious Plot Above 18GHz (LTE Band 41(PC2) – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50
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]
5012.00	H	146	322	-77.18	4.32	34.14	-61.11	-25.00	-36.11
7518.00	H	-	-	-77.99	7.81	36.82	-58.44	-25.00	-33.44
10024.00	H	-	-	-78.38	10.39	39.01	-56.25	-25.00	-31.25

Table 7-28. Radiated Spurious Data (LTE Band 41(PC2) – Low Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50
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]
5186.00	H	-	-	-77.31	5.18	34.87	-60.39	-25.00	-35.39
7779.00	H	-	-	-77.27	7.47	37.20	-58.06	-25.00	-33.06
10372.00	H	-	-	-79.00	11.18	39.18	-56.07	-25.00	-31.07

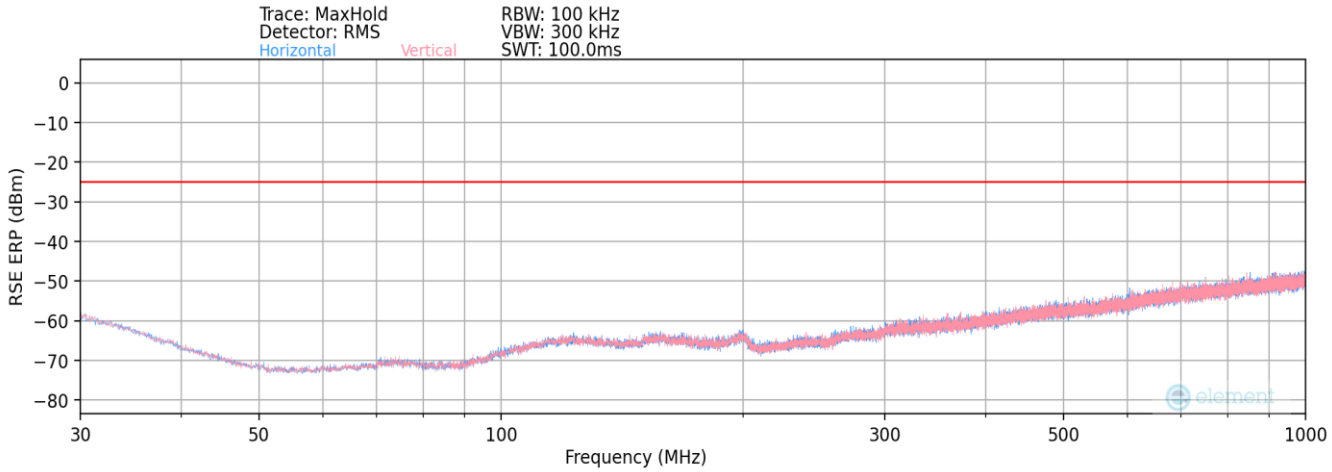
Table 7-29. Radiated Spurious Data (LTE Band 41(PC2) – Mid Channel – Ant1)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50
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]
5360.00	H	-	-	-76.83	5.17	35.34	-59.92	-25.00	-34.92
8040.00	H	-	-	-77.97	8.11	37.14	-58.12	-25.00	-33.12
10720.00	H	-	-	-79.38	11.72	39.34	-55.92	-25.00	-30.92

Table 7-30. Radiated Spurious Data (LTE Band 41(PC2) – High Channel – Ant1)

NR Band n41 – Ant1

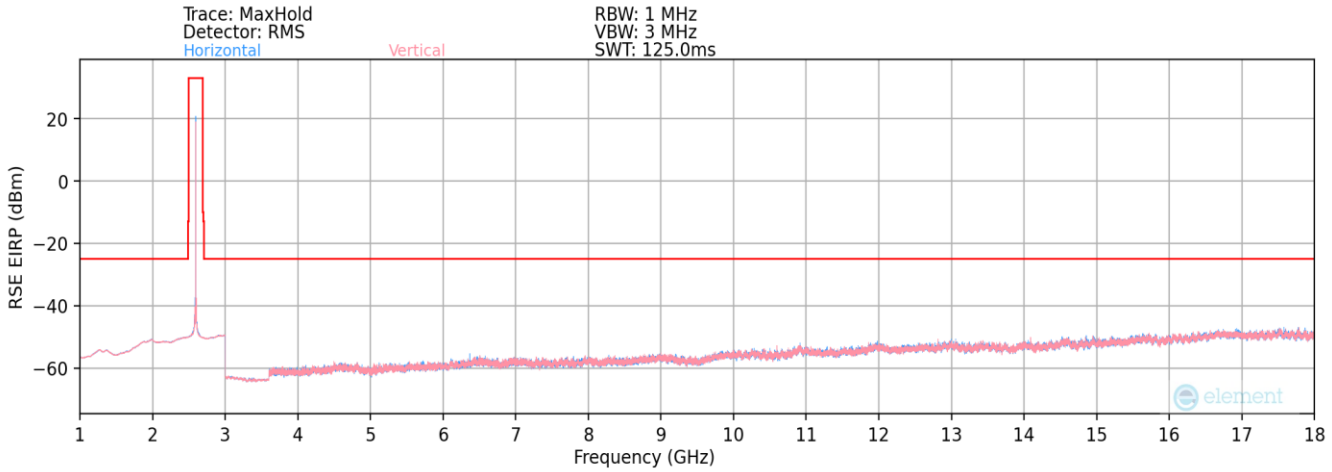


Plot 7-257. Radiated Spurious Plot Below 1GHz (NR Band n41 – Ant1)

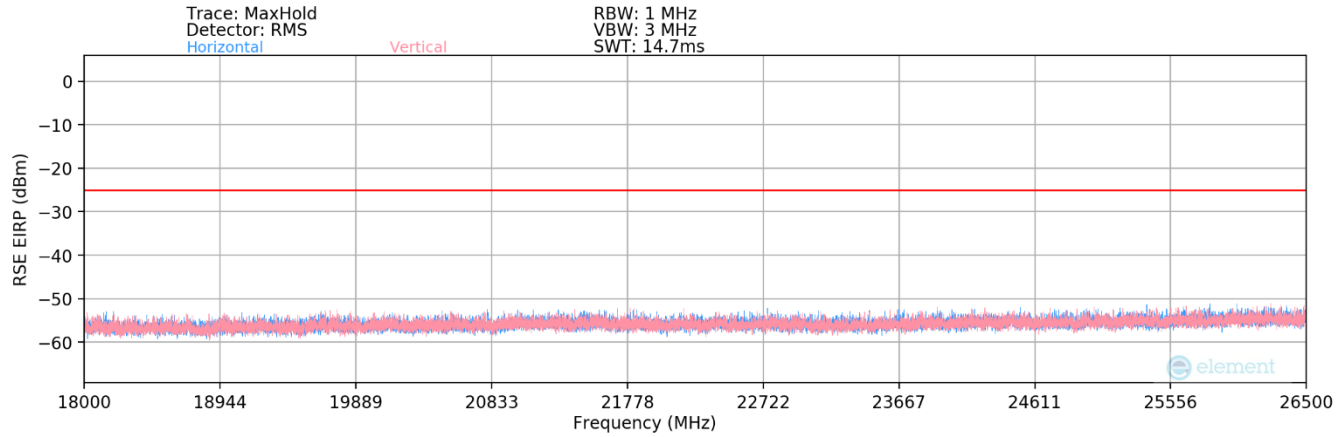
Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1/136
Mode:	QPSK

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]
184.67	H	-	-	-85.03	18.59	40.56	-56.85	-25.00	-31.85
590.06	H	-	-	-84.79	27.06	49.27	-48.13	-25.00	-23.13

Table 7-31. Radiated Spurious Data (NR Band n41 – Ant1)



Plot 7-258. Radiated Spurious Plot Above 1GHz (NR Band n41 – Ant1)



Plot 7-259. Radiated Spurious Plot Above 18GHz (NR Band n41 – Ant1)

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1 / 136
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.00	H	-	-	-77.02	4.49	34.47	-60.79	-25.00	-35.79
7638.00	H	-	-	-77.95	7.96	37.01	-58.25	-25.00	-33.25
10184.00	H	-	-	-79.03	11.45	39.42	-55.84	-25.00	-30.84

Table 7-32. Radiated Spurious Data (NR Band n41 – Low Channel – Ant1)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	H	-	-	-78.54	5.18	33.64	-61.62	-25.00	-36.62
7779.00	H	-	-	-77.32	7.47	37.15	-58.11	-25.00	-33.11
10372.00	H	-	-	-79.24	11.18	38.94	-56.31	-25.00	-31.31

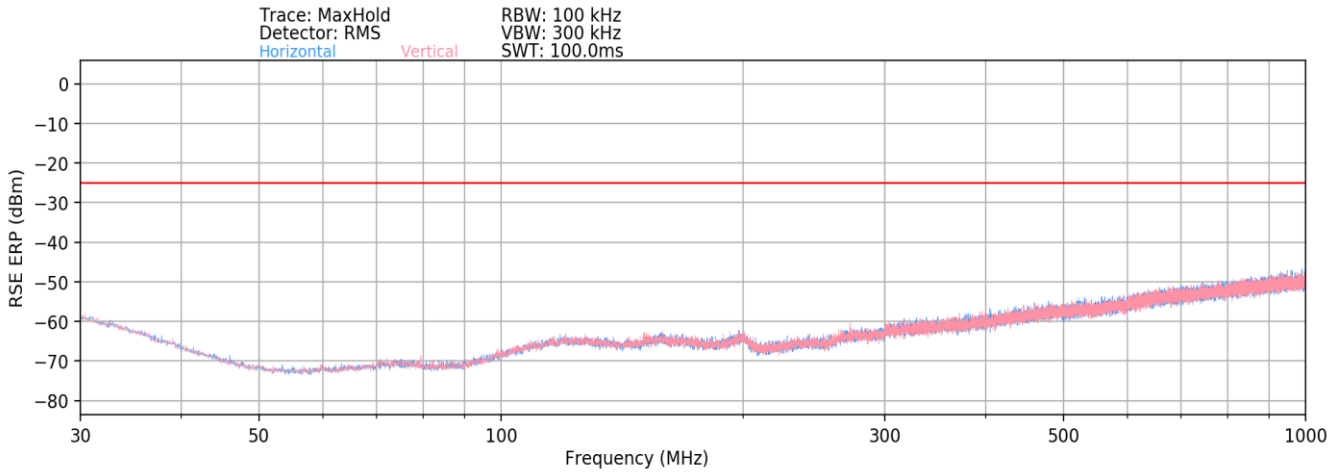
Table 7-33. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant1)

Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1 / 136
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.00	H	-	-	-77.37	5.00	34.63	-60.63	-25.00	-35.63
7920.00	H	-	-	-78.14	8.08	36.94	-58.31	-25.00	-33.31
10560.00	H	-	-	-79.77	11.84	39.07	-56.18	-25.00	-31.18

Table 7-34. Radiated Spurious Data (NR Band n41 – High Channel – Ant1)

NR Band n41 – Ant4

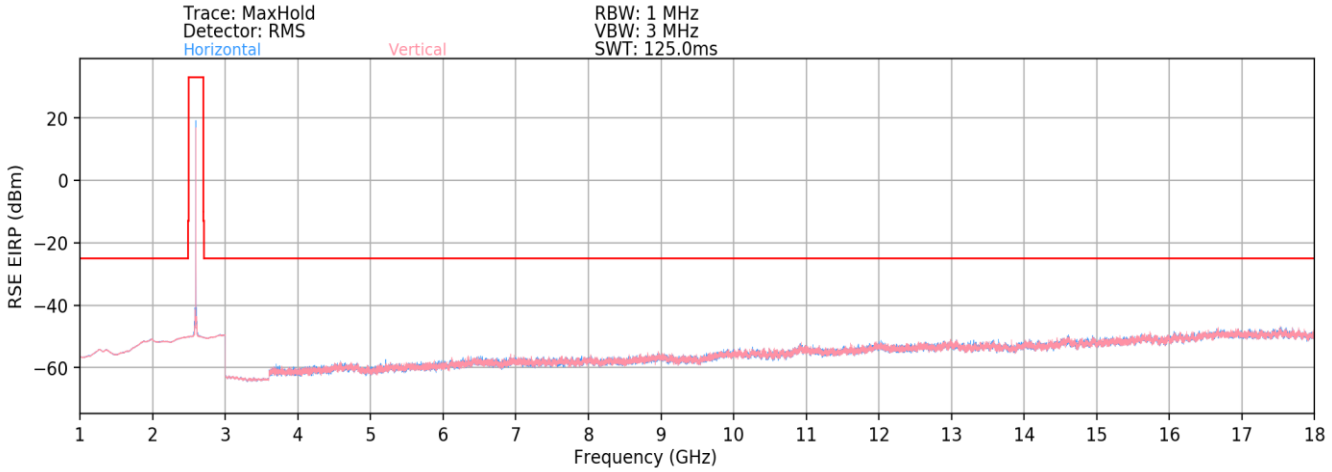


Plot 7-260. Radiated Spurious Plot Below 1GHz (NR Band n41 – Ant4)

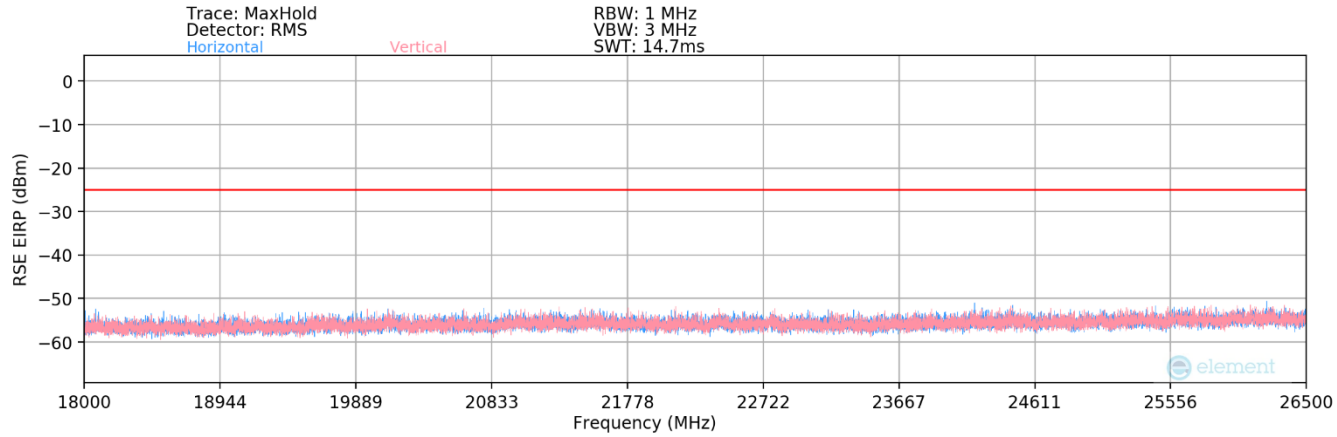
Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1/136
Mode:	Stand-alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
82.53	V	-	-	-85.63	14.26	35.63	-61.78	-25.00	-36.78
280.95	V	-	-	-84.84	21.06	43.22	-54.19	-25.00	-29.19

Table 7-35. Radiated Spurious Data (NR Band n41 – Ant4)



Plot 7-261. Radiated Spurious Plot Above 1GHz (NR Band n41 – Ant4)



Plot 7-262. Radiated Spurious Plot Above 18GHz (NR Band n41 – Ant4)

Bandwidth (MHz):	100
Frequency (MHz):	2546.0
RB / Offset:	1/136
Mode:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.00	H	-	-	-75.21	4.49	36.28	-58.98	-25.00	-33.98
7638.00	H	-	-	-75.44	7.96	39.52	-55.74	-25.00	-30.74
10184.00	H	-	-	-76.20	11.45	42.25	-53.01	-25.00	-28.01

Table 7-36. Radiated Spurious Data (NR Band n41 – Low Channel – Ant4)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1/136
Mode:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	H	-	-	-75.15	5.18	37.03	-58.23	-25.00	-33.23
7779.00	H	-	-	-75.38	7.47	39.09	-56.17	-25.00	-31.17
10372.00	H	-	-	-76.40	11.18	41.78	-53.47	-25.00	-28.47

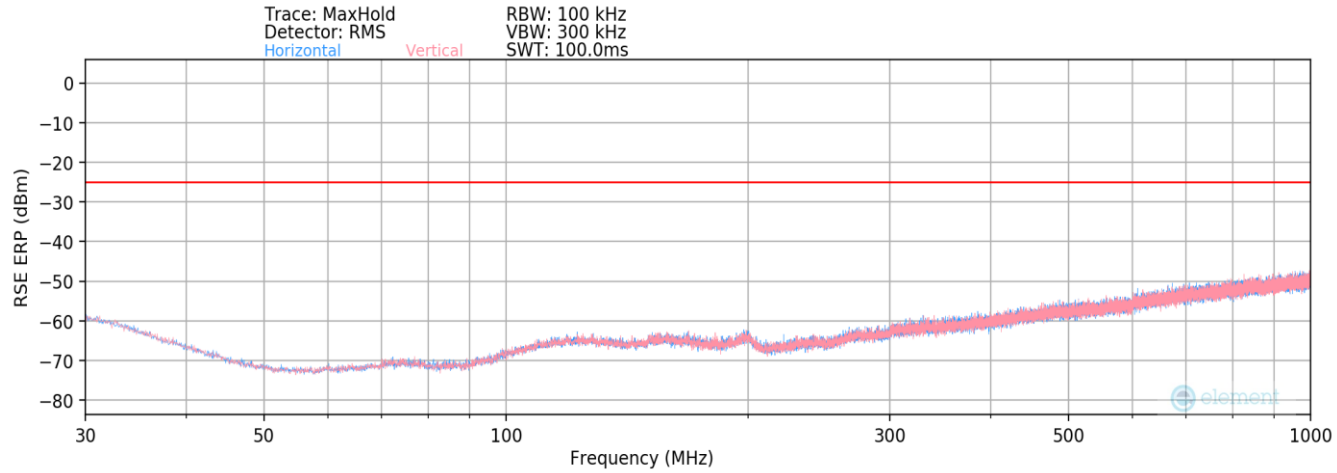
Table 7-37. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant4)

Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1/136
Mode:	QPSK

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.00	H	-	-	-75.13	5.00	36.87	-58.39	-25.00	-33.39
7920.00	H	-	-	-75.97	8.08	39.11	-56.14	-25.00	-31.14
10560.00	H	-	-	-76.43	11.84	42.41	-52.84	-25.00	-27.84

Table 7-38. Radiated Spurious Data (NR Band n41 – High Channel – Ant4)

NR Band n41 – Ant5

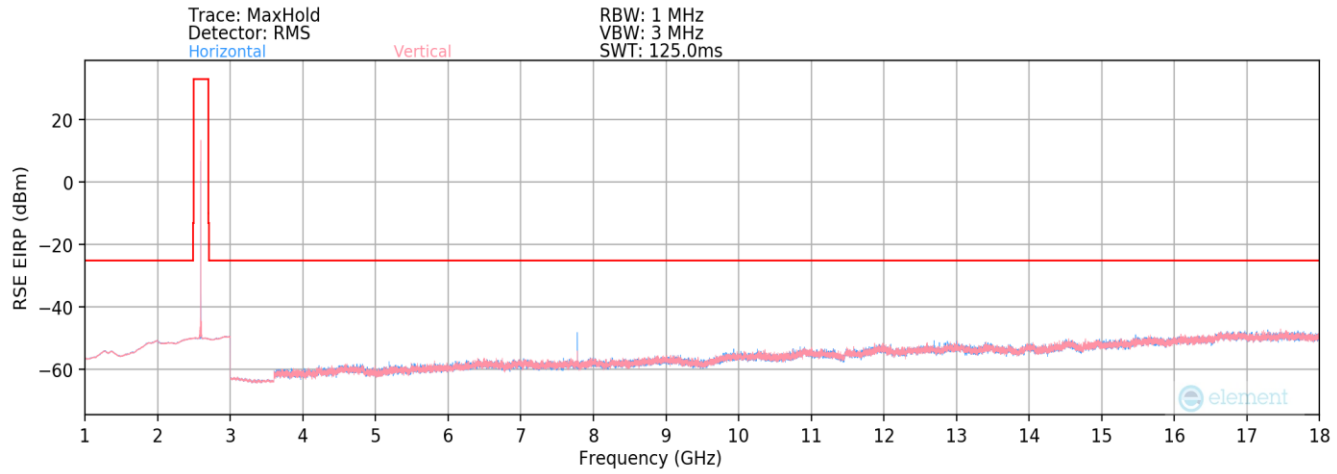


Plot 7-263. Radiated Spurious Plot Below 1GHz (NR Band n41 – Ant5)

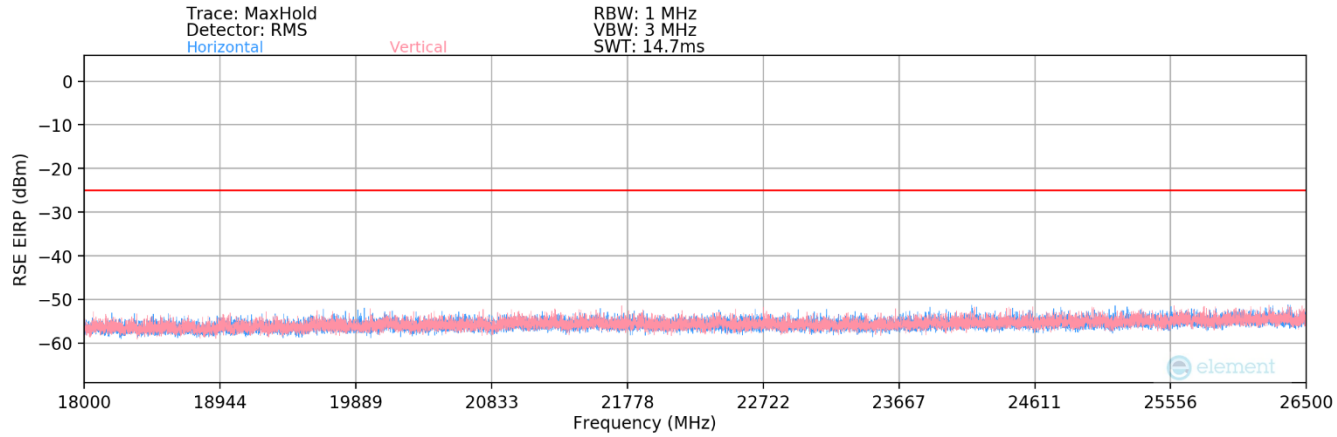
Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1/136
Mode:	Stand-alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
191.23	H	-	-	-85.34	18.60	40.26	-57.14	-25.00	-32.14
305.64	H	-	-	-84.46	21.44	43.98	-53.43	-25.00	-28.43

Table 7-39. Radiated Spurious Data (NR Band n41 – Ant5)



Plot 7-264. Radiated Spurious Plot Above 1GHz (NR Band n41 – Ant5)



Plot 7-265. Radiated Spurious Plot Above 18GHz (NR Band n41 – Ant5)

Bandwidth (MHz):	100
Frequency (MHz):	2550.0
RB / Offset:	1/136
Mode:	Stand-Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.00	H	140	297	-69.27	4.52	42.25	-53.00	-25.00	-28.00
7650.00	H	209	145	-70.16	7.82	44.66	-50.60	-25.00	-25.60
10200.00	H	-	-	-79.45	11.15	38.70	-56.56	-25.00	-31.56
12750.00	H	-	-	-79.87	14.46	41.59	-53.67	-25.00	-28.67
15300.00	H	-	-	-79.93	16.24	43.31	-51.95	-25.00	-26.95

Table 7-40. Radiated Spurious Data (NR Band n41 – Low Channel – Ant5)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1/136
Mode:	Stand-Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	H	294	255	-70.19	5.18	41.99	-53.27	-25.00	-28.27
7779.00	H	145	137	-70.27	7.47	44.20	-51.06	-25.00	-26.06
10372.00	H	-	-	-79.68	11.18	38.50	-56.75	-25.00	-31.75
12965.00	H	-	-	-79.82	14.27	41.45	-53.80	-25.00	-28.80
15558.00	H	-	-	-80.06	16.00	42.94	-52.32	-25.00	-27.32

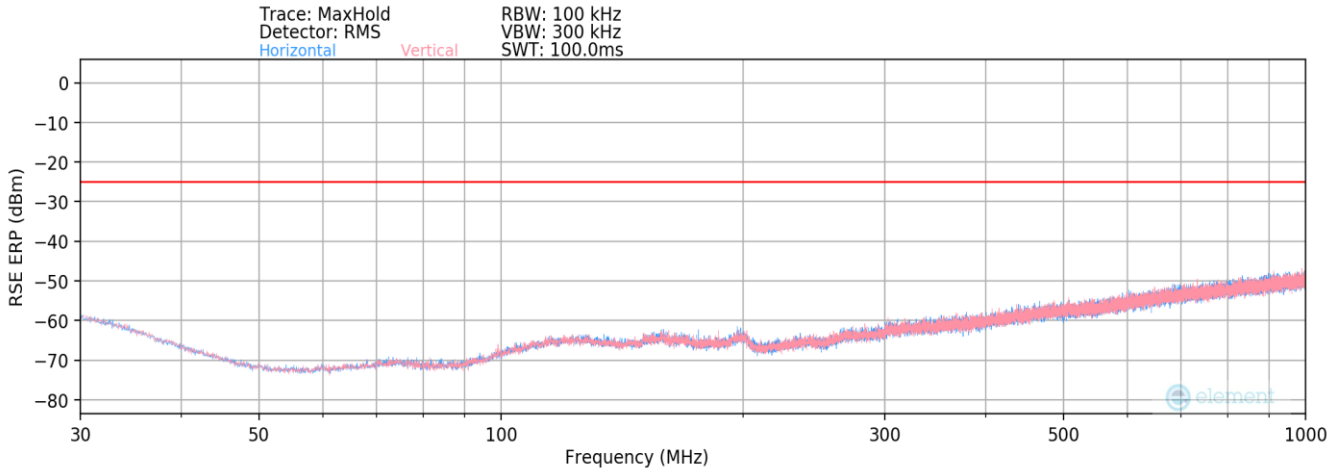
Table 7-41. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant5)

Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1/136
Mode:	Stand-Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.00	H	158	302	-75.03	5.00	36.97	-58.29	-25.00	-33.29
7920.00	H	135	138	-70.28	8.08	44.80	-50.45	-25.00	-25.45
10560.00	H	-	-	-80.18	11.84	38.66	-56.59	-25.00	-31.59
13200.00	H	-	-	-79.54	13.65	41.11	-54.14	-25.00	-29.14
15840.00	H	-	-	-80.58	17.27	43.69	-51.57	-25.00	-26.57

Table 7-42. Radiated Spurious Data (NR Band n41 – High Channel – Ant5)

NR Band n41 – Ant8

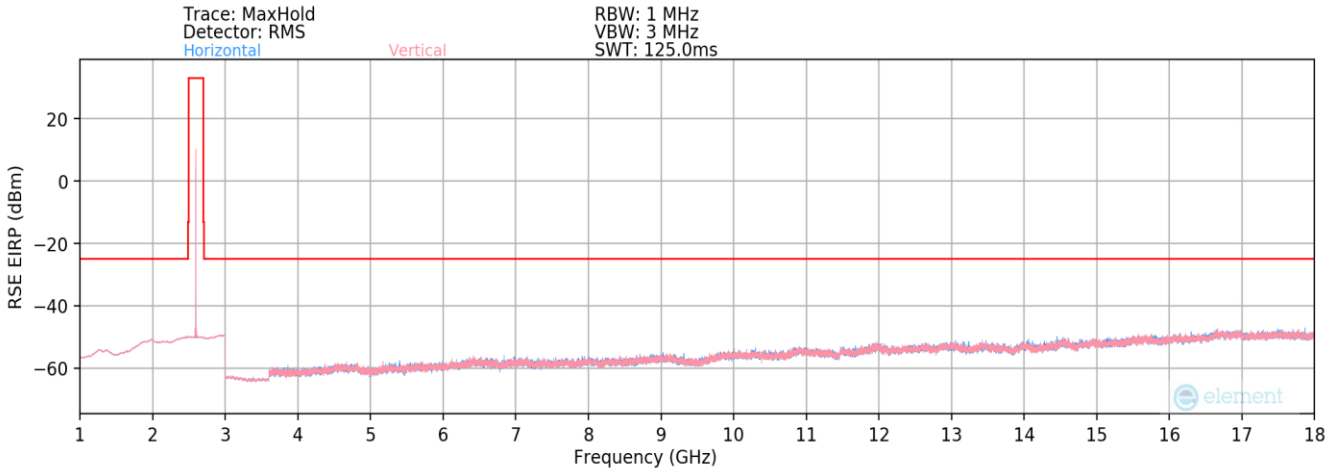


Plot 7-266. Radiated Spurious Plot Below 1GHz (NR Band n41 – Ant8)

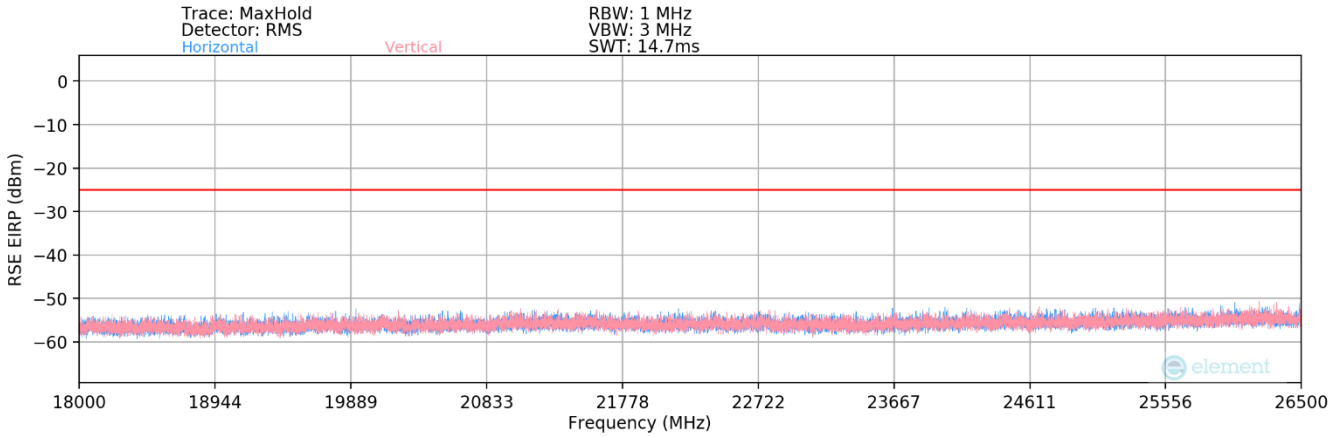
Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1/136
Mode:	Stand-alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
189.30	V	-	-	-85.57	18.64	40.07	-57.34	-25.00	-32.34
526.60	V	-	-	-84.57	26.23	48.66	-48.75	-25.00	-23.75

Table 7-44. Radiated Spurious Data (NR Band n41 – Ant8)



Plot 7-267. Radiated Spurious Plot Above 1GHz (NR Band n41 – Ant8)



Plot 7-268. Radiated Spurious Plot Above 18GHz (NR Band n41 – Ant8)

Bandwidth (MHz):	100
Frequency (MHz):	2550.0
RB / Offset:	1/136
Mode:	Stand-Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.00	V	-	-	-77.21	4.52	34.31	-60.94	-25.00	-35.94
7650.00	V	-	-	-78.27	7.82	36.55	-58.71	-25.00	-33.71
10200.00	V	-	-	-79.21	11.15	38.94	-56.32	-25.00	-31.32

Table 7-45. Radiated Spurious Data (NR Band n41 – Low Channel – Ant8)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1/136
Mode:	Stand-Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	V	-	-	-77.68	5.18	34.50	-60.76	-25.00	-35.76
7779.00	V	-	-	-77.60	7.47	36.87	-58.39	-25.00	-33.39
10372.00	V	-	-	-79.83	11.18	38.35	-56.90	-25.00	-31.90

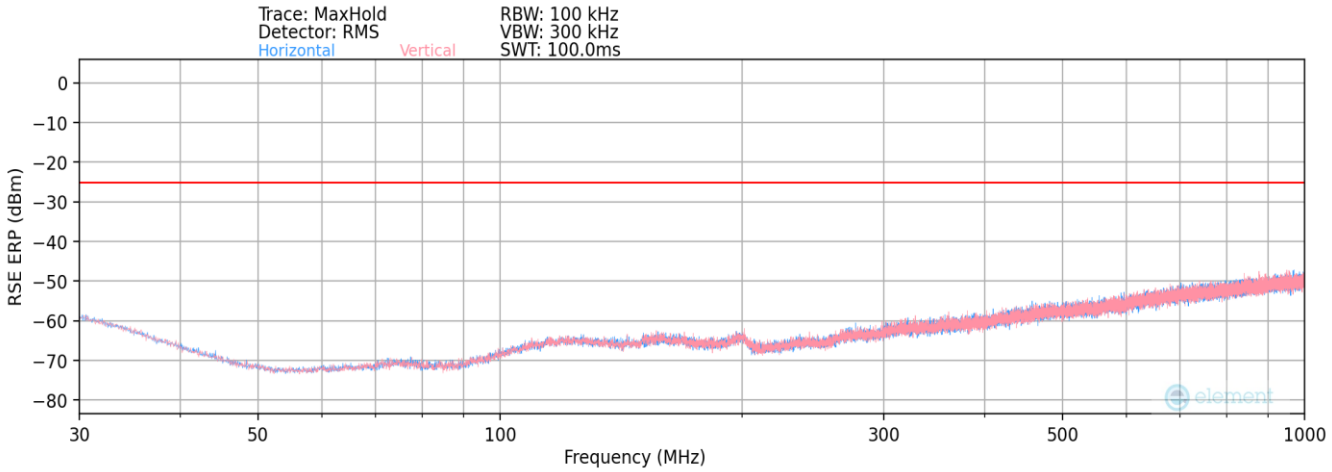
Table 7-46. Radiated Spurious Data (NR Band n41 – Mid Channel – Ant8)

Bandwidth (MHz):	100
Frequency (MHz):	2640.0
RB / Offset:	1/136
Mode:	Stand-Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.00	V	-	-	-77.13	5.00	34.87	-60.39	-25.00	-35.39
7920.00	V	-	-	-78.25	8.08	36.83	-58.42	-25.00	-33.42
10560.00	V	-	-	-79.13	11.84	39.71	-55.54	-25.00	-30.54

Table 7-47. Radiated Spurious Data (NR Band n41 – High Channel – Ant8)

ULCA - LTE B41(PC2) – Ant1

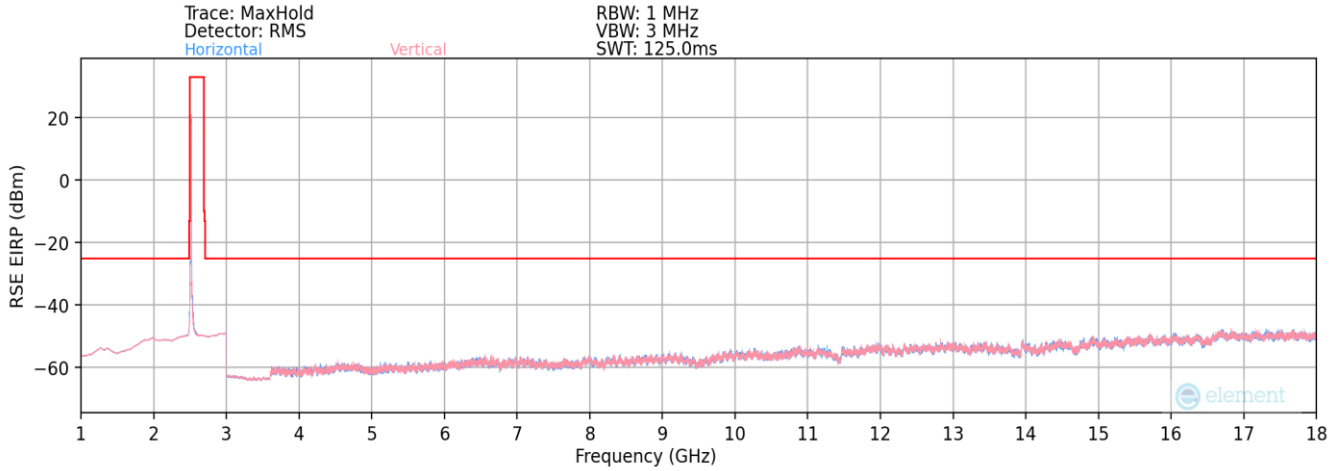


Plot 7-269. Radiated Spurious Plot Below 1GHz (ULCA LTE B41(PC2) – Ant1)

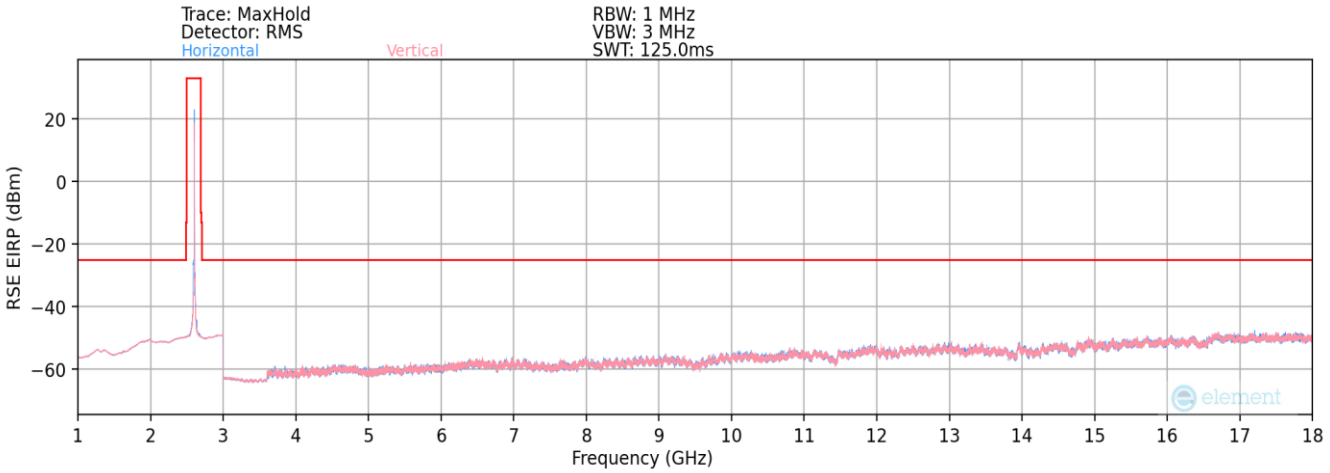
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0
Detector / Trace Mode:	RMS / Average
RBW / VBW:	100kHz / 300kHz

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]
580.00	H	-	-	-88.56	27.02	45.46	-51.94	-25.00	-26.94

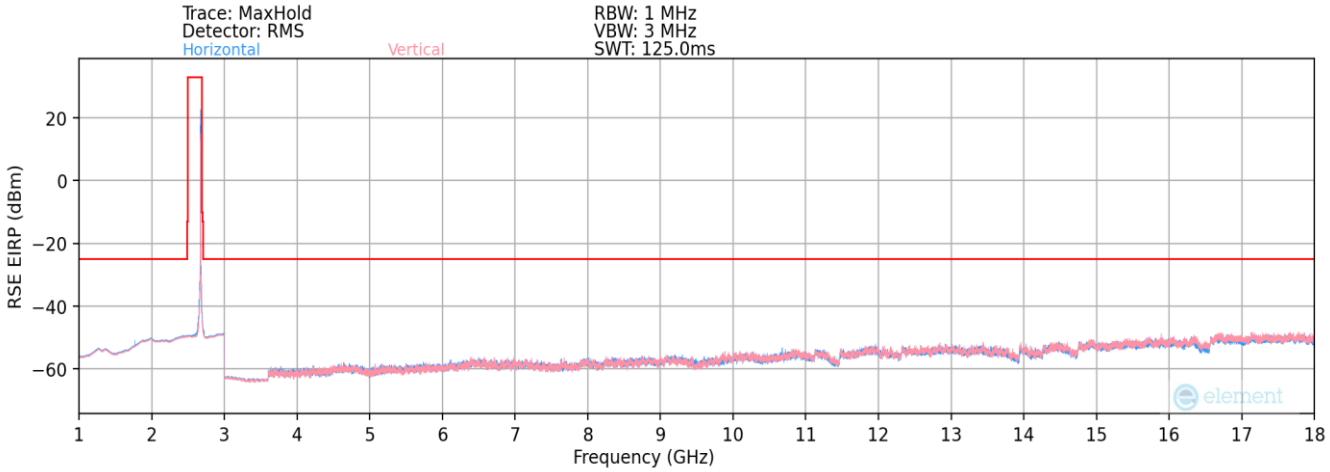
Table 7-48. Radiated Spurious Data (ULCA LTE B41(PC2) – Ant1)



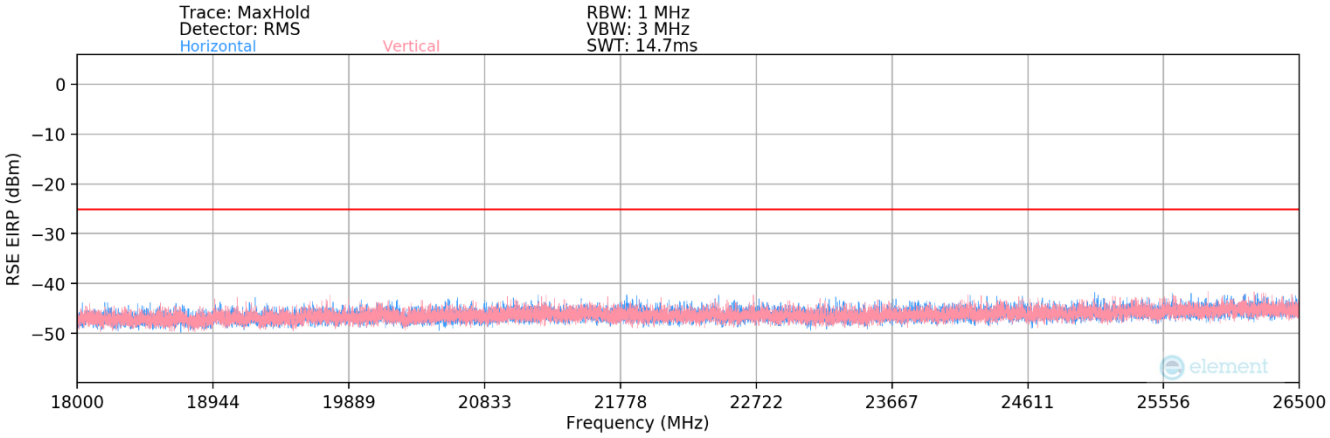
Plot 7-270. Radiated Spurious Plot Above 1GHz (ULCA LTE B41(PC2) – Ant1)- Low Channel



Plot 7-271. Radiated Spurious Plot Above 1GHz (ULCA LTE B41(PC2) – Ant1)- Mid Channel



Plot 7-272. Radiated Spurious Plot Above 1GHz (ULCA LTE B41(PC2) – Ant1)- High Channel



Plot 7-273. Radiated Spurious Plot Above 18GHz (ULCA LTE B41(PC2) – Ant1)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2506.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2525.8
SCC RB / Offset:	1 / 0
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]
5031.80	H	-	-	-77.05	4.75	34.70	-60.56	-25.00	-35.56
7547.70	H	-	-	-77.91	7.91	37.00	-58.25	-25.00	-33.25
10063.60	H	-	-	-78.54	10.91	39.37	-55.89	-25.00	-30.89

Table 7-49. Radiated Spurious Data (ULCA LTE B41(PC2) – Low Channel – Ant1)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2593.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2612.8
SCC RB / Offset:	1 / 0
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]
5205.80	H	-	-	-76.55	5.39	35.84	-59.42	-25.00	-34.42
7808.70	H	-	-	-77.90	7.56	36.66	-58.59	-25.00	-33.59
10411.60	H	-	-	-79.28	11.97	39.69	-55.56	-25.00	-30.56

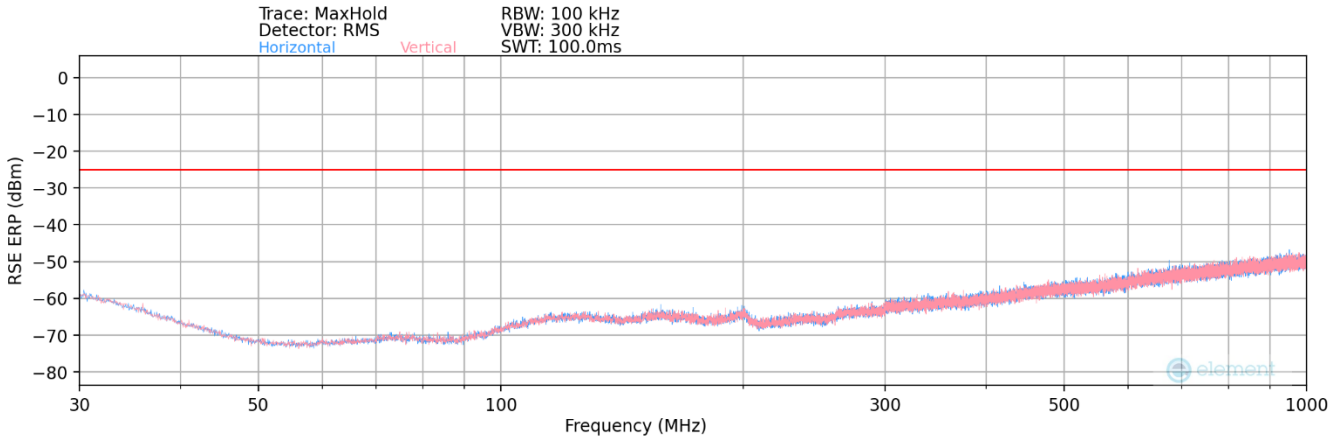
Table 7-50. Radiated Spurious Data (ULCA LTE B41(PC2) – Mid Channel – Ant1)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1 / 0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99
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]
5340.20	H	-	-	-76.97	4.97	35.00	-60.26	-25.00	-35.26
8010.30	H	-	-	-77.89	8.05	37.16	-58.10	-25.00	-33.10
10680.40	H	-	-	-80.12	12.55	39.43	-55.82	-25.00	-30.82

Table 7-51. Radiated Spurious Data (ULCA LTE B41(PC2) – High Channel – Ant1)

ULCA - LTE B7 – Ant1

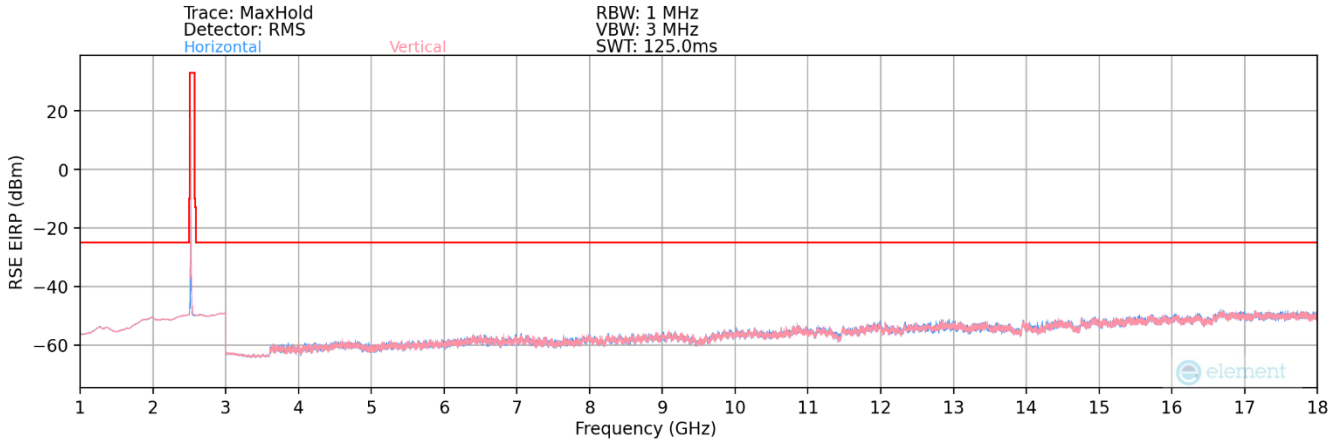


Plot 7-274. Radiated Spurious Plot Below 1GHz (ULCA LTE B7– Ant1)

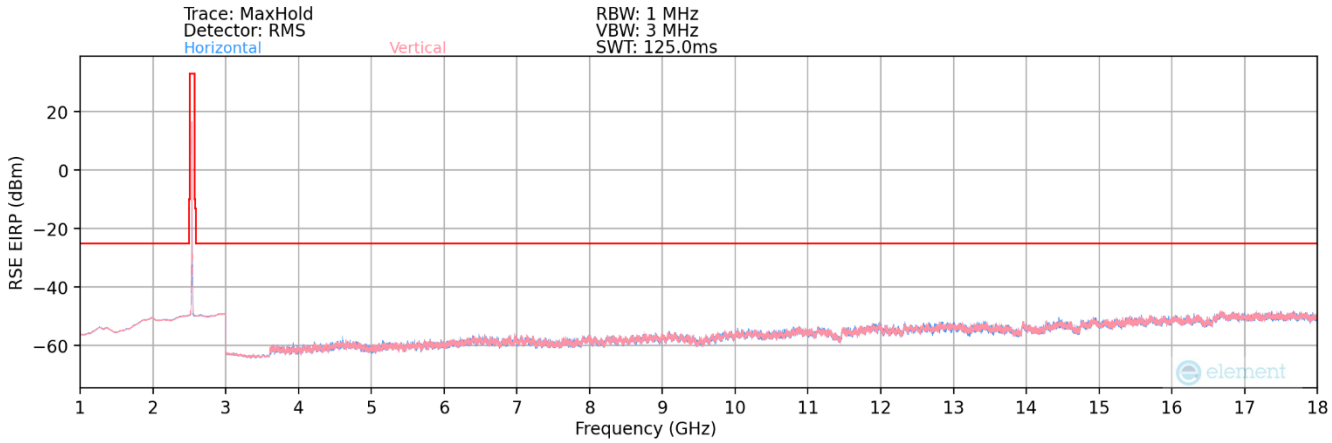
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2510.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2529.8
SCC RB / Offset:	1 / 0
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

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]
680.50	H	-	-	-89.89	28.26	45.37	-33.28	-25.00	-8.28

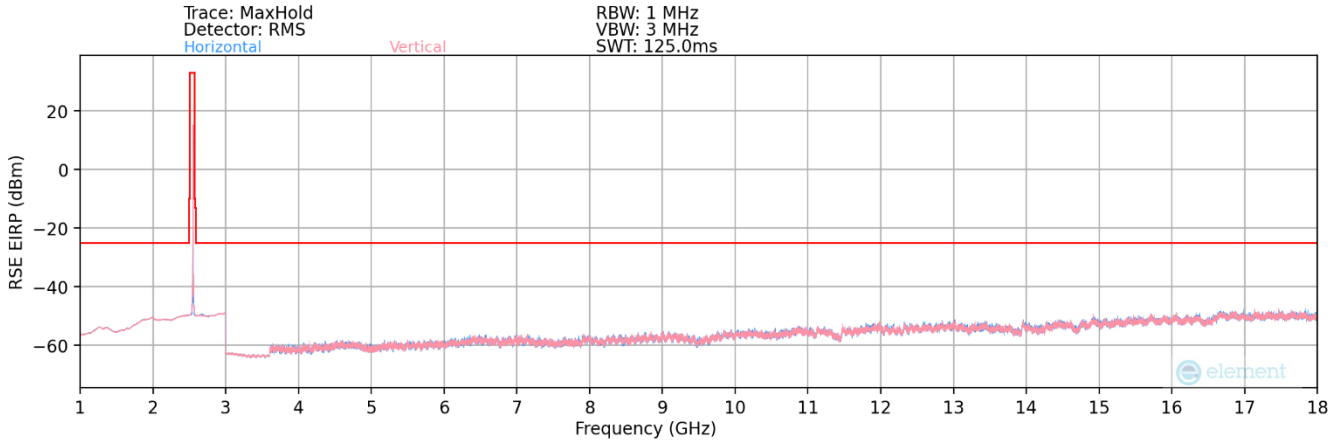
Table 7-51. Radiated Spurious Data (ULCA LTE B7– Ant1)



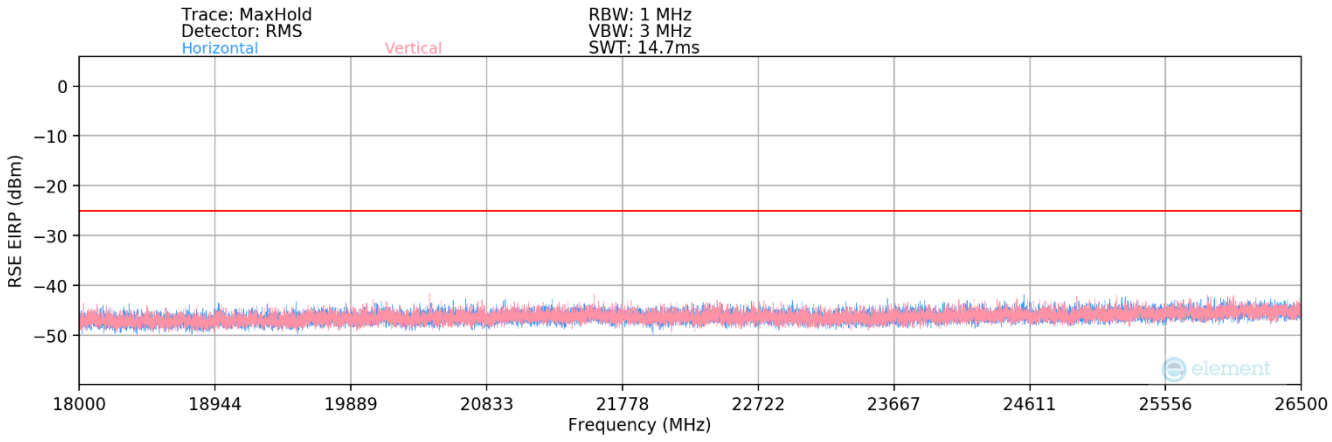
Plot 7-275. Radiated Spurious Plot Above 1GHz (ULCA LTE B7– Ant1)- Low Channel



Plot 7-276. Radiated Spurious Plot Above 1GHz (ULCA LTE B7– Ant1)- Mid Channel



Plot 7-277. Radiated Spurious Plot Above 1GHz (ULCA LTE B7– Ant1)- High Channel



Plot 7-278. Radiated Spurious Plot Above 18GHz (ULCA LTE B7– Ant1)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2510.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2529.8
SCC RB / Offset:	1 / 0
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]
5039.80	H	-	-	-79.34	4.88	32.54	-41.23	-25.00	-16.23
7559.70	H	-	-	-80.70	8.00	34.30	-39.48	-25.00	-14.48
10079.60	H	-	-	-80.40	11.17	37.77	-36.01	-25.00	-11.01

Table 7-43. Radiated Spurious Data (ULCA LTE B7– Low Channel – Ant1)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2525.1
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2544.9
SCC RB / Offset:	1 / 0
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]
5037.00	H	-	-	-79.24	4.84	32.60	-41.17	-25.00	-16.17
7605.00	H	-	-	-80.49	8.19	34.70	-39.07	-25.00	-14.07
10140.00	H	-	-	-80.77	11.14	37.37	-36.40	-25.00	-11.40

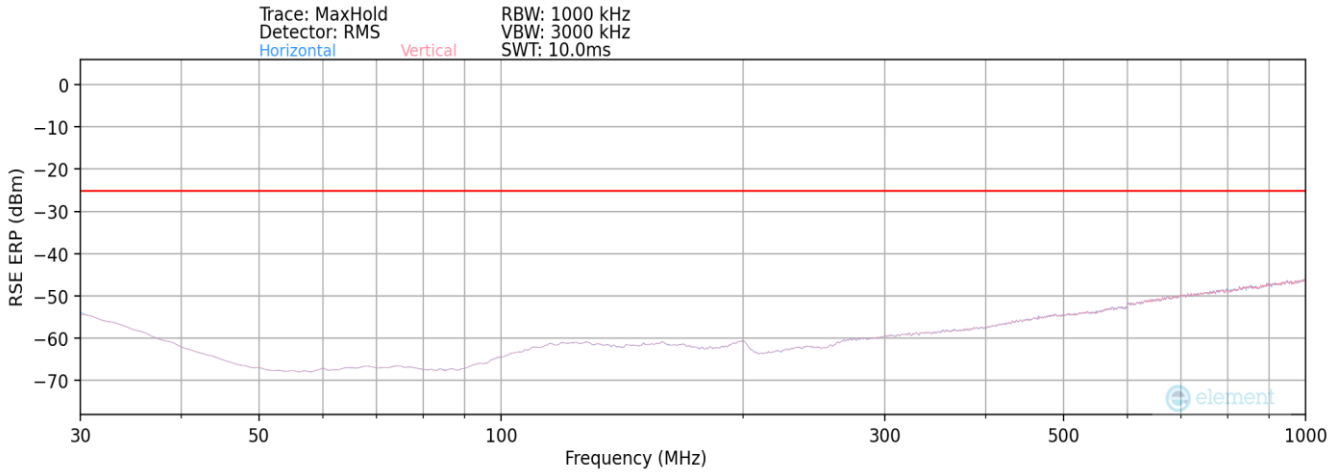
Table 7-44. Radiated Spurious Data (ULCA LTE B7– Mid Channel – Ant1)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2560.0
PCC RB / Offset:	..1/0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2540.2
SCC RB / Offset:	1 / 99
Detector / Trace Mode:	RMS / Average
RBW / VBW:	1MHz / 3MHz

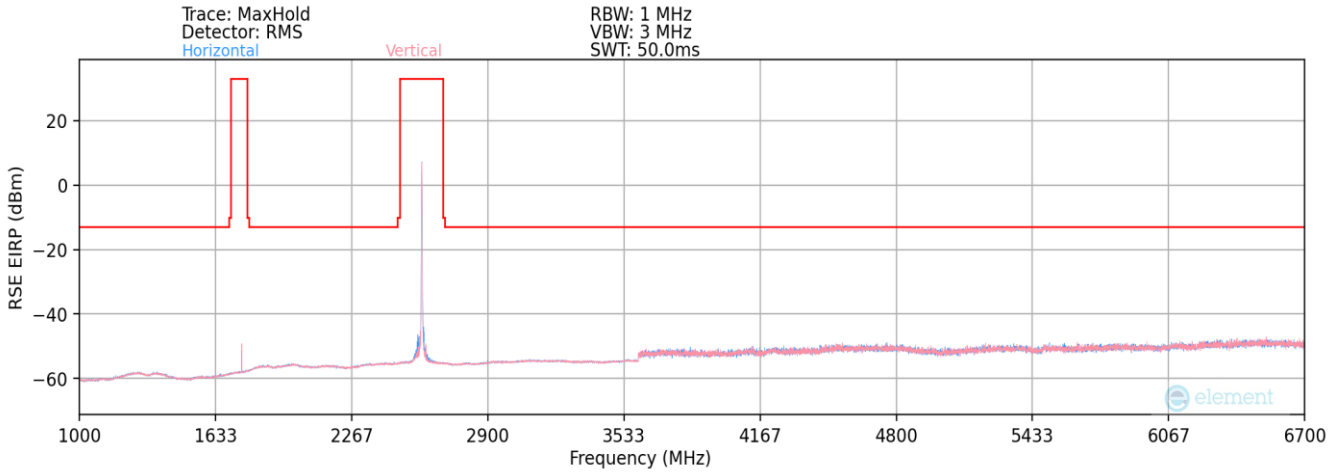
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.20	H	-	-	-78.12	4.53	33.41	-40.35	-25.00	-15.35
7650.30	H	-	-	-79.60	7.81	35.21	-38.14	-25.00	-13.14
10200.40	H	-	-	-80.83	11.14	37.31	-36.05	-25.00	-11.05

Table 7-45. Radiated Spurious Data (ULCA LTE B7– High Channel – Ant1)

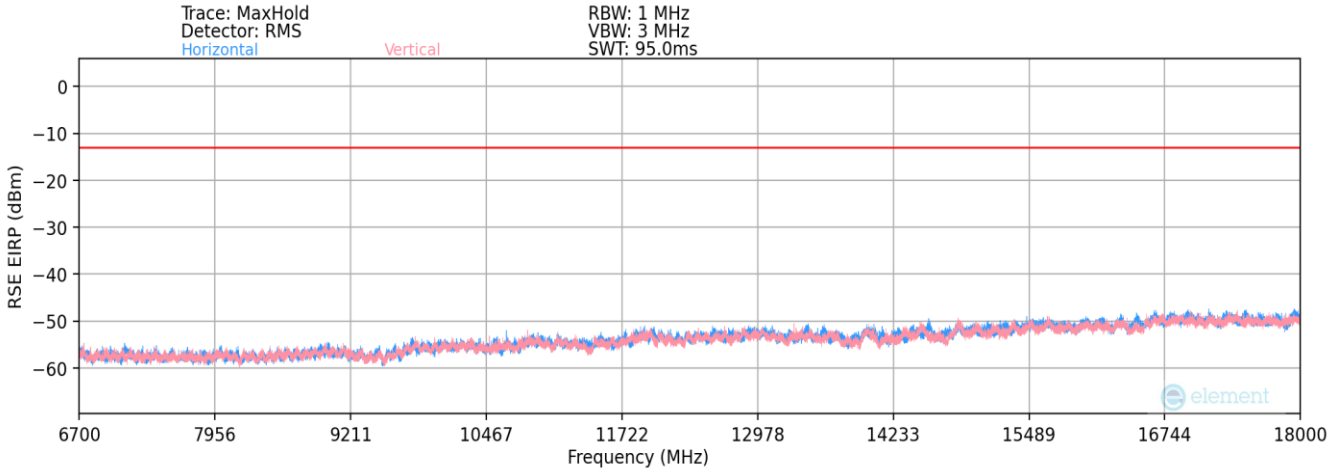
EN-DC NR Band n41- LTE B66



Plot 7-279. Radiated Spurious Plot Below 1GHz (NR Band n41- LTE B66)



Plot 7-280. Radiated Spurious Plot 1-6.7GHz (NR Band n41- LTE B66)



Plot 7-281. Radiated Spurious Plot 6.7-18GHz (NR Band n41- LTE B66)

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1/136
Mode:	EN-DC
Anchor Band:	66

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]
897.00	H	-	-	-84.80	31.20	53.40	-41.86	-25.00	-16.86
3441.00	H	-	-	-74.25	11.29	44.04	-51.21	-25.00	-26.21
4289.00	H	-	-	-78.08	13.05	41.97	-53.29	-25.00	-28.29
5137.00	H	-	-	-76.80	14.57	44.77	-50.49	-25.00	-25.49
5985.00	H	-	-	-76.81	15.81	46.00	-49.26	-25.00	-24.26

Table 7-46. Radiated Spurious Data (NR Band n41- LTE B66)

7.8 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

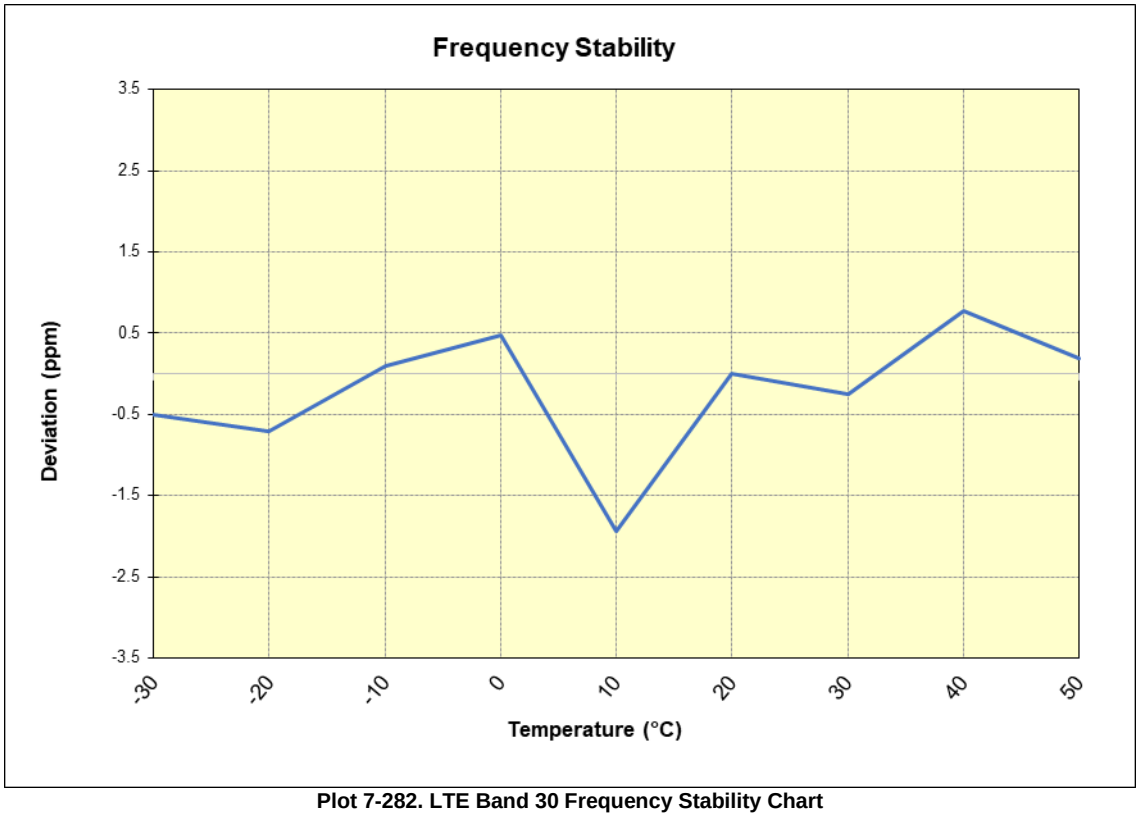
None

LTE Band 30

Operating Frequency (Hz):	2,310,000,000
Ref. Voltage (VDC):	7.60

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	7.60	- 30	2,310,095,603	-1,179	-0.0000510
		- 20	2,310,095,142	-1,640	-0.0000710
		- 10	2,310,096,995	213	0.0000092
		0	2,310,097,873	1,091	0.0000472
		+ 10	2,310,092,307	-4,475	-0.0001937
		+ 20 (Ref)	2,310,096,782	0	0.0000000
		+ 30	2,310,096,191	-592	-0.0000256
		+ 40	2,310,098,588	1,806	0.0000782
		+ 50	2,310,097,230	447	0.0000194
Battery Endpoint	7.20	+ 20	2,310,096,800	18	0.0000008

Table 7-47. LTE Band 30 Frequency Stability Data



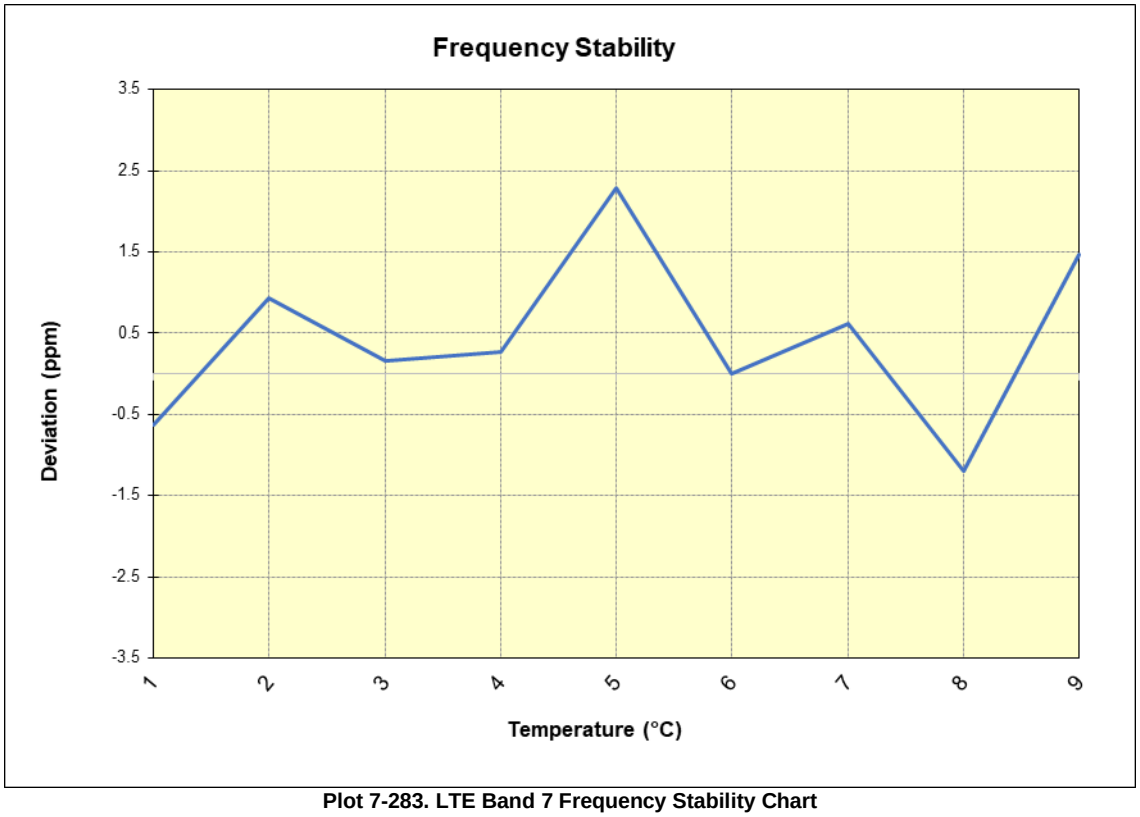
Plot 7-282. LTE Band 30 Frequency Stability Chart

LTE Band 7

Operating Frequency (Hz):	2,535,000,000
Ref. Voltage (VDC):	7.60

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	7.60	- 30	2,535,093,483	-1,614	-0.0000637
		- 20	2,535,097,442	2,345	0.0000925
		- 10	2,535,095,484	387	0.0000153
		0	2,535,095,797	700	0.0000276
		+ 10	2,535,100,883	5,786	0.0002282
		+ 20 (Ref)	2,535,095,097	0	0.0000000
		+ 30	2,535,096,657	1,560	0.0000615
		+ 40	2,535,092,054	-3,043	-0.0001201
		+ 50	2,535,098,830	3,733	0.0001473
Battery Endpoint	7.20	+ 20	2,535,095,211	114	0.0000045

Table 7-48. LTE Band 7 Frequency Stability Data



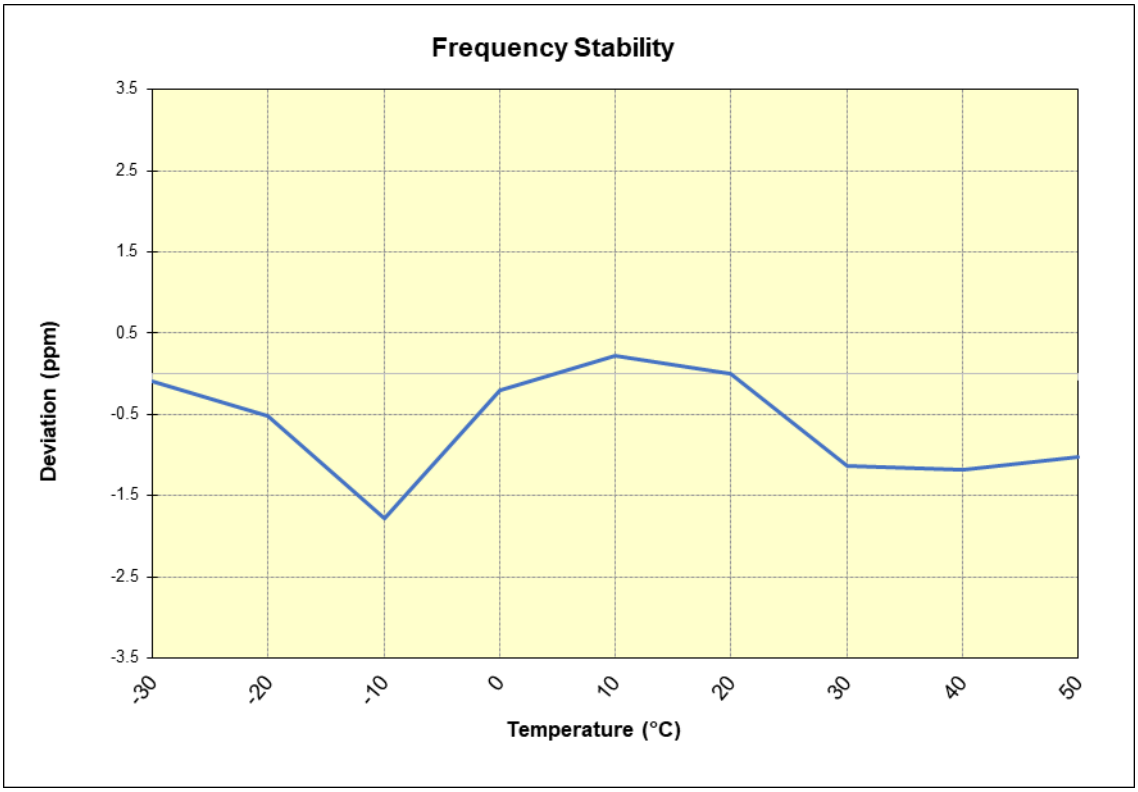
Plot 7-283. LTE Band 7 Frequency Stability Chart

LTE Band 41 PC2

Operating Frequency (Hz):	2,593,000,000
Ref. Voltage (VDC):	7.60

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	7.60	- 30	2,593,095,677	-236	-0.0000091
		- 20	2,593,094,551	-1,362	-0.0000525
		- 10	2,593,091,288	-4,625	-0.0001783
		0	2,593,095,368	-545	-0.0000210
		+ 10	2,593,096,473	560	0.0000216
		+ 20 (Ref)	2,593,095,913	0	0.0000000
		+ 30	2,593,092,972	-2,941	-0.0001134
		+ 40	2,593,092,845	-3,068	-0.0001183
		+ 50	2,593,093,266	-2,647	-0.0001021
Battery Endpoint	7.20	+ 20	2,593,095,851	-62	-0.0000024

Table 7-78. LTE Band 41 PC2 Frequency Stability Data



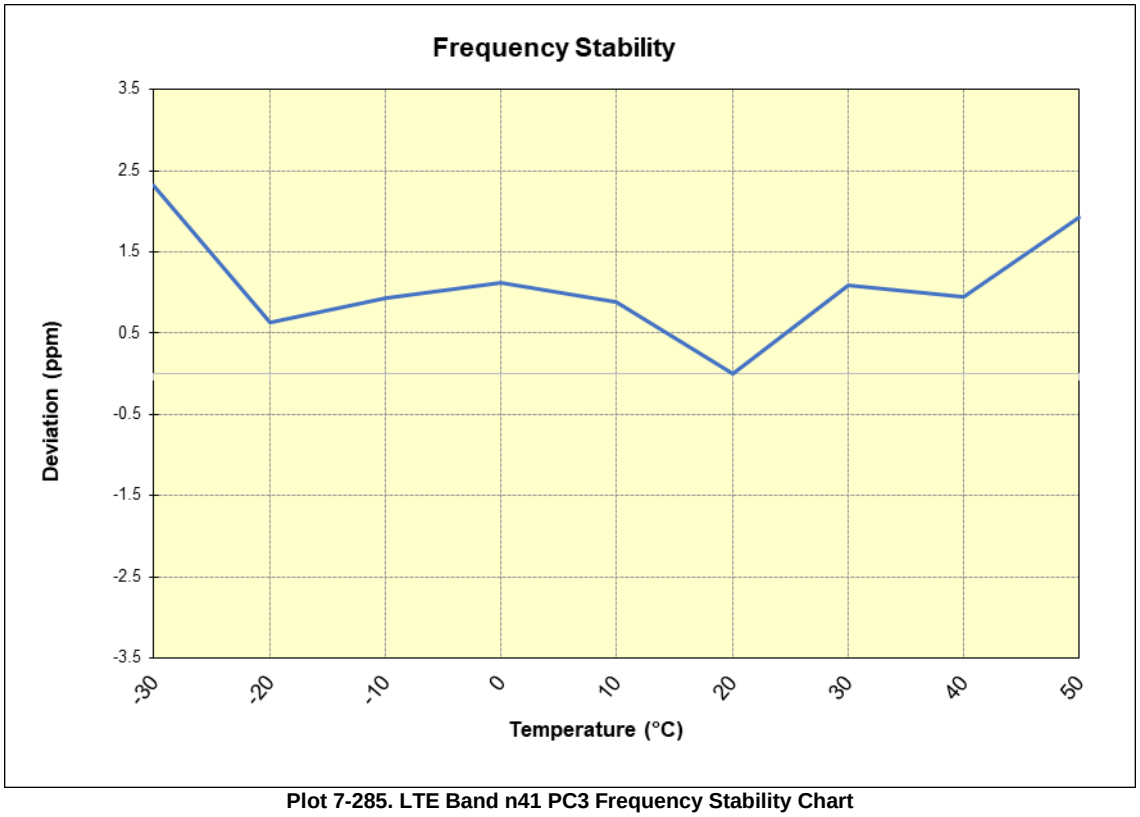
Plot 7-284. LTE Band 41 PC2 Frequency Stability Chart

NR Band n41

Operating Frequency (Hz):	2,593,000,000
Ref. Voltage (VDC):	7.60

Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	7.60	- 30	2,593,076,227	6,032	0.0002326
		- 20	2,593,071,821	1,626	0.0000627
		- 10	2,593,072,630	2,435	0.0000939
		0	2,593,073,091	2,897	0.0001117
		+ 10	2,593,072,480	2,285	0.0000881
		+ 20 (Ref)	2,593,070,195	0	0.0000000
		+ 30	2,593,073,015	2,821	0.0001088
		+ 40	2,593,072,652	2,457	0.0000948
		+ 50	2,593,075,195	5,001	0.0001928
Battery Endpoint	7.20	+ 20	2,593,070,351	156	0.0000060

Table 7-78. LTE Band n41 PC3 Frequency Stability Data



Plot 7-285. LTE Band n41 PC3 Frequency Stability Chart

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Microsoft Corporation Portable Computing Device FCC ID: C3K1997** complies with all the requirements of Part 27 of the FCC rules.