

Plot 7-209. Radiated Spurious Plot (ULCA LTE B7 - High Channel - South) - Closed

FCC ID: C3K1995		PART 27 MEASUREMENT REPORT	Microsoft	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:		Dage 142 of 162
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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

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]
5039.8	Н	227	32	-78.42	5.89	34.47	-60.78	-25.00	-35.78
7559.7	Н	132	38	-76.67	8.59	38.92	-56.34	-25.00	-31.34
10079.6	Н	-	-	-80.21	12.15	38.94	-56.31	-25.00	-31.31
12599.5	Н	-	-	-80.46	14.07	40.61	-54.65	-25.00	-29.65
15119.4	Н	-	-	-81.22	17.65	43.43	-51.83	-25.00	-26.83

Table 7-40. Radiated Spurious Data (ULCA LTE B7 – Low Channel – South)

PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2535.0
PCC RB / Offset:	1 / 99
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2554.8
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]
5089.8	Н	179	37	-78.27	5.41	34.14	-61.11	-25.00	-36.11
7634.7	Н	132	29	-76.01	8.63	39.62	-55.64	-25.00	-30.64
10179.6	Н	-	-	-80.29	11.33	38.04	-57.22	-25.00	-32.22
12724.5	Н	-	-	-80.68	14.56	40.88	-54.38	-25.00	-29.38
15269.4	Н	-	-	-80.88	17.11	43.23	-52.03	-25.00	-27.03

Table 7-41. Radiated Spurious Data (ULCA LTE B7 – Mid Channel – South)

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

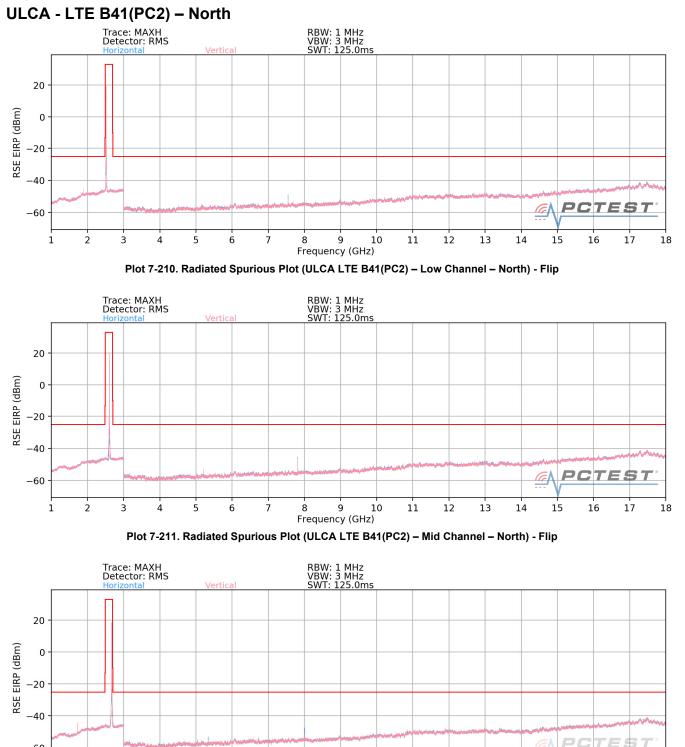
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5100.2	Н	127	22	-78.13	5.15	34.02	-61.24	-25.00	-36.24
7650.3	Н	131	33	-76.88	8.64	38.76	-56.50	-25.00	-31.50
10200.4	Н	-	-	-80.34	11.34	38.00	-57.26	-25.00	-32.26
12750.5	Н	-	-	-80.61	14.28	40.67	-54.59	-25.00	-29.59
15300.6	Н	-	-	-80.89	17.16	43.27	-51.99	-25.00	-26.99

Table 7-42. Radiated Spurious Data (ULCA LTE B7 – High Channel – South)

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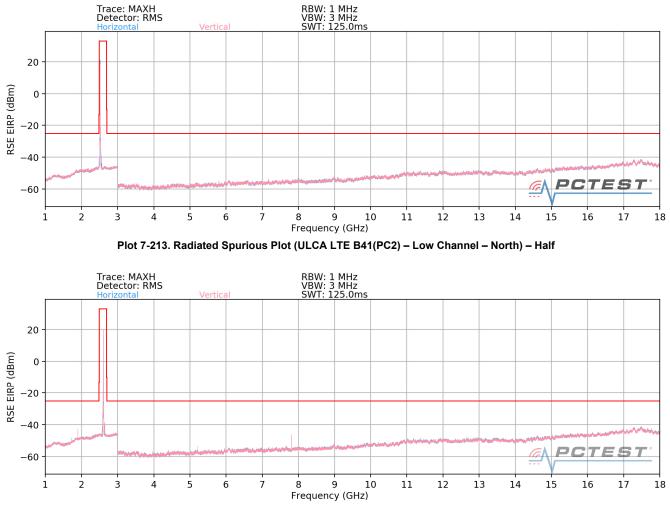
-60



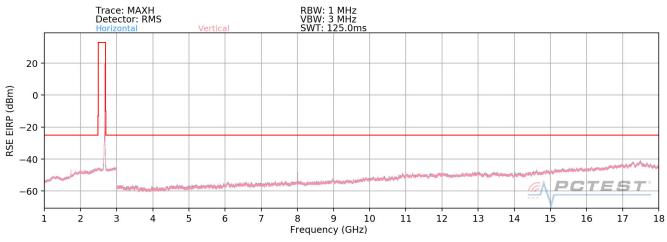
Frequency (GHz) Plot 7-212. Radiated Spurious Plot (ULCA LTE B41(PC2) – High Channel – North) - Flip

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Plot 7-215. Radiated Spurious Plot (ULCA LTE B41(PC2) – High Channel – North) - Half

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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

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]
5031.8	Н	178	342	-70.00	5.88	42.88	-52.38	-25.00	-27.38
7547.7	Н	255	339	-71.84	8.59	43.75	-51.51	-25.00	-26.51
10063.6	Н	-	-	-77.37	11.49	41.12	-54.14	-25.00	-29.14
12579.5	Н	-	-	-78.32	14.71	43.39	-51.87	-25.00	-26.87
15095.4	Н	-	-	-79.21	16.28	44.07	-51.18	-25.00	-26.18

Table 7-43. Radiated Spurious Data (ULCA LTE B41(PC2) – Low Channel – North)

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

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]
5205.8	Н	172	122	-74.09	6.30	39.21	-56.05	-25.00	-31.05
7808.7	Н	160	352	-69.01	7.67	45.66	-49.60	-25.00	-24.60
10411.6	Н	-	-	-78.69	12.51	40.82	-54.43	-25.00	-29.43
13014.5	Н	-	-	-78.81	15.23	43.42	-51.84	-25.00	-26.84
15617.4	Н	-	-	-78.96	17.44	45.48	-49.78	-25.00	-24.78

Table 7-44. Radiated Spurious Data (ULCA LTE B41(PC2) – Mid Channel – North)

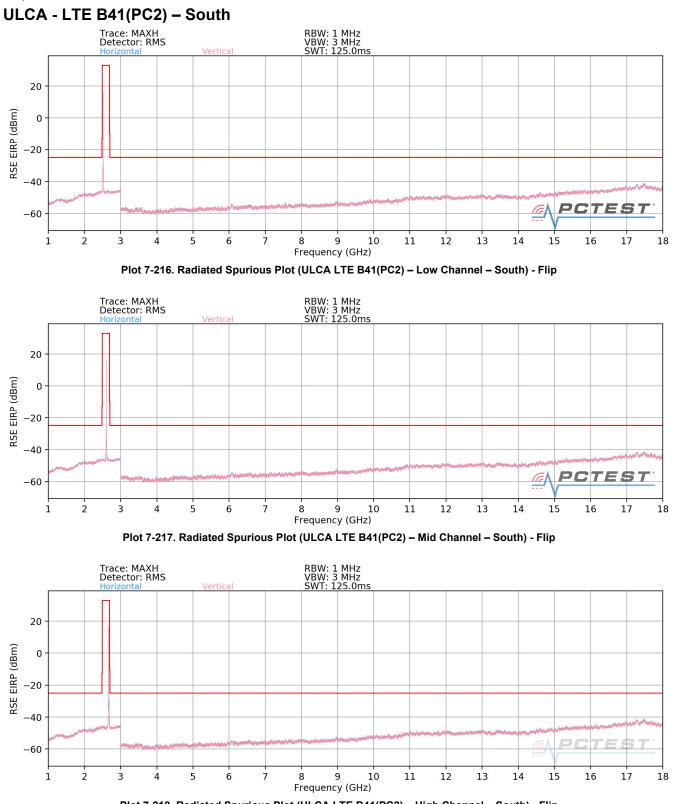
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1/0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

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]
5340.2	Н	220	296	-72.33	5.43	40.10	-55.16	-25.00	-30.16
8010.3	Н	235	219	-69.73	8.73	46.00	-49.25	-25.00	-24.25
10680.4	Н	-	-	-78.33	12.39	41.06	-54.20	-25.00	-29.20
13350.5	Н	-	-	-78.43	14.01	42.58	-52.68	-25.00	-27.68
16020.6	Н	-	-	-79.21	18.02	45.81	-49.45	-25.00	-24 .45

Table 7-45. Radiated Spurious Data (ULCA LTE B41(PC2) – High Channel – North)

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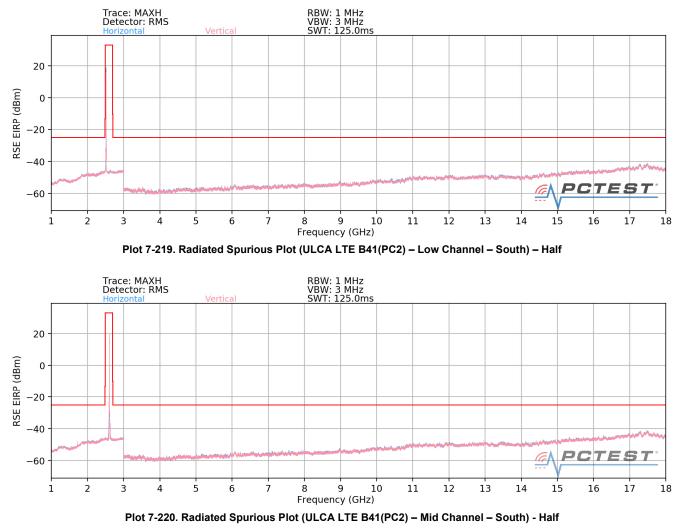


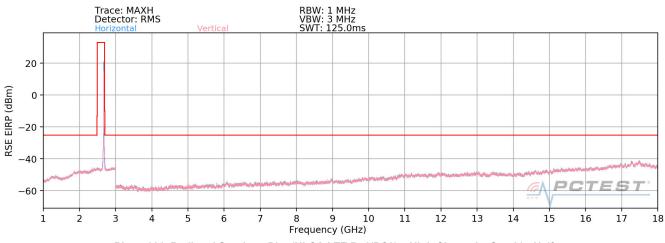


Plot 7-218. Radiated Spurious Plot (ULCA LTE B41(PC2) – High Channel – South) - Flip

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Plot 7-221. Radiated Spurious Plot (ULCA LTE B41(PC2) – High Channel – South) - Half

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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

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]
5031.8	Н	320	108	-73.39	5.88	39.49	-55.77	-25.00	-30.77
7547.7	Н	225	160	-68.74	8.59	46.85	-48.41	-25.00	-23.41
10063.6	Н	-	-	-75.64	11.49	42.85	-52.41	-25.00	-27.41
12579.5	Н	-	-	-76.15	14.71	45.56	-49.70	-25.00	-24.70
15095.4	Н	-	-	-76.98	16.28	46.30	-48.95	-25.00	-23.95

Table 7-46. Radiated Spurious Data (ULCA LTE B41(PC2) – Low Channel – South)

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

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]
5205.8	Н	314	97	-74.09	6.30	39.21	-56.05	-25.00	-31.05
7808.7	Н	400	252	-70.21	7.67	44.46	-50.80	-25.00	-25.80
10411.6	Н	-	-	-76.79	12.51	42.72	-52.53	-25.00	-27.53
13014.5	Н	-	-	-76.96	15.23	45.27	-49.99	-25.00	-24.99
15617.4	Н	-	-	-76.83	17.44	47.61	-47.65	-25.00	-22.65

Table 7-47. Radiated Spurious Data (ULCA LTE B41(PC2) – Mid Channel – South)

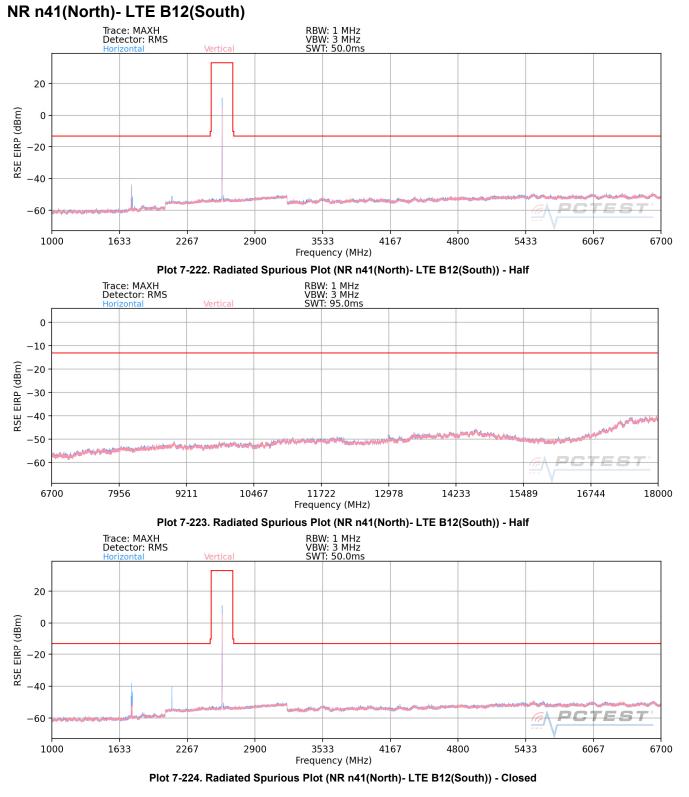
PCC Bandwidth (MHz):	20
PCC Frequency (MHz):	2680.0
PCC RB / Offset:	1/0
SCC Bandwidth (MHz):	20
SCC Frequency (MHz):	2660.2
SCC RB / Offset:	1 / 99

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]
5340.2	Н	-	-	-74.83	5.43	37.60	-57.66	-25.00	-32.66
8010.3	Н	190	308	-74.21	8.73	41.52	-53.73	-25.00	-28.73
10680.4	Н	-	-	-76.52	12.39	42.87	-52.39	-25.00	-27.39
13350.5	Н	-	-	-76.01	14.01	45.00	-50.26	-25.00	-25.26
16020.6	Н	-	-	-77.27	18.02	47.75	-47.51	-25.00	-22.51

Table 7-48. Radiated Spurious Data (ULCA LTE B41(PC2) – High Channel – South)

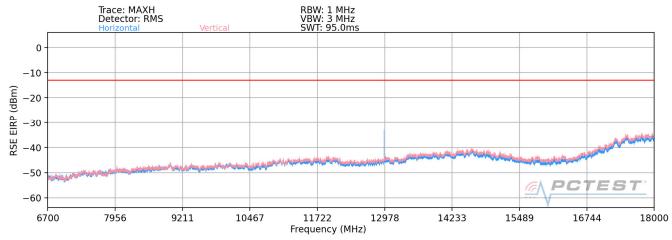
FCC ID: C3K1995	PCTEST: Proud to be part of @viencest	PART 27 MEASUREMENT REPORT	Microsoft	Approved by: Technical Manager
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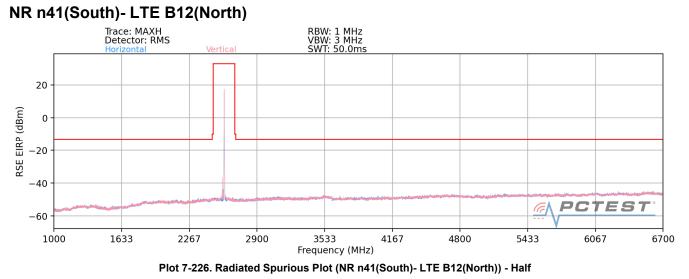
100
2593.0
136/1
EN-DC
LTE Band 12

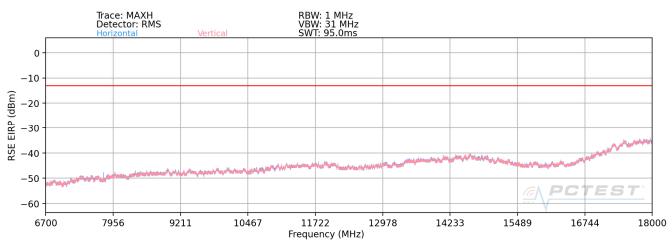
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1178.0	Н	-	-	-76.19	-5.34	25.47	-69.79	-25.00	-44.79
1745.5	Н	158	142	-51.26	-3.82	51.92	-43.33	-25.00	-18.33
2123.0	Н	-	-	-76.76	-2.45	27.79	-67.47	-25.00	-42.47
4478.5	Н	-	-	-78.39	2.85	31.46	-63.79	-25.00	-38.79
3063.5	Н	-	-	-77.55	-0.12	29.33	-65.92	-25.00	-40.92
4949.0	Н	-	-	-78.56	4.51	32.95	-62.30	-25.00	-37.30

Table 7-49. Radiated Spurious Data (NR n41(North)- LTE B12(South))

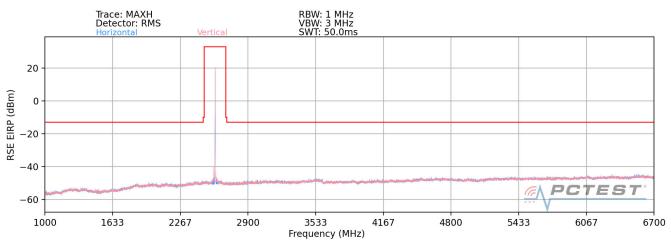
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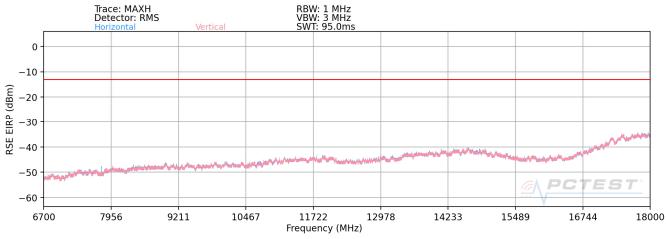






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Plot 7-229. Radiated Spurious Plot (NR n41(South)- LTE B12(North)) – Open

Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136
Mode:	EN-DC
Anchor Band:	LTE Band 12

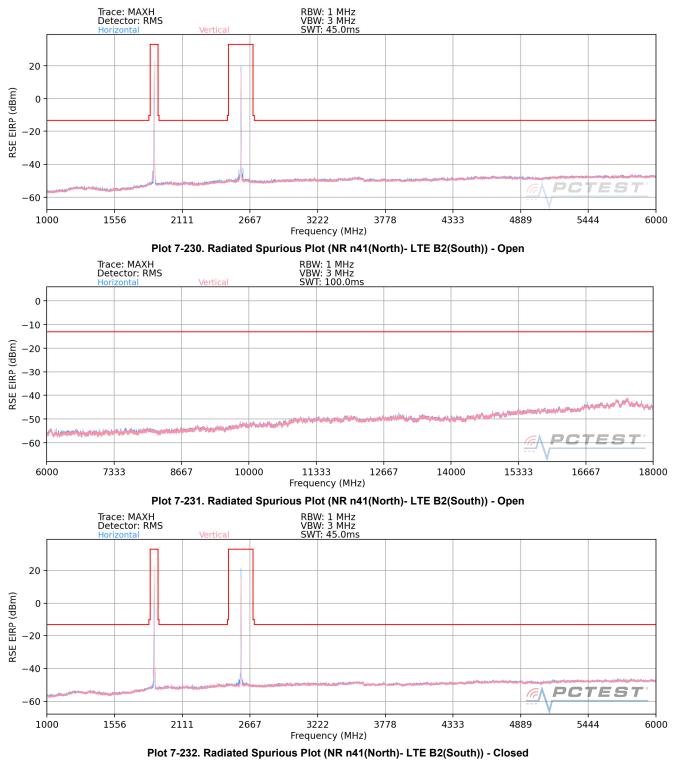
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1178.0	Н	-	-	-76.16	-5.34	25.50	-79.30	-25.00	-54.30
1745.5	Н	-	-	-75.95	-3.82	27.23	-77.57	-25.00	-52.57
1890.0	Н	-	-	-76.73	-2.91	27.36	-77.44	-25.00	-52.44
2123.0	Н	-	-	-77.46	-2.45	27.09	-77.71	-25.00	-52.71
3063.5	Н	-	-	-76.69	1.55	31.86	-72.94	-25.00	-47.94
4478.5	Н	-	-	-78.21	3.34	32.13	-72.67	-25.00	-47.67
4949.0	Н	-	-	-78.19	4.35	33.16	-71.64	-25.00	-46.64
6834.5	Н	-	-	-79.10	8.00	35.90	-68.90	-25.00	-43.90

Table 7-50. Radiated Spurious Data (NR n41(South)- LTE B12(North))

NR n41(North)- LTE B2(South)

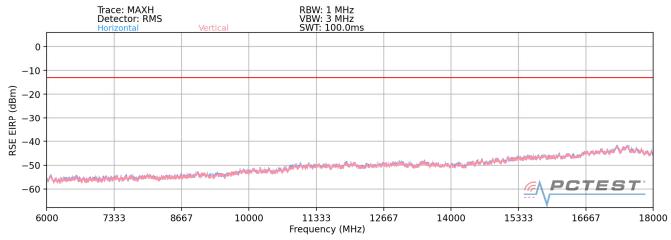
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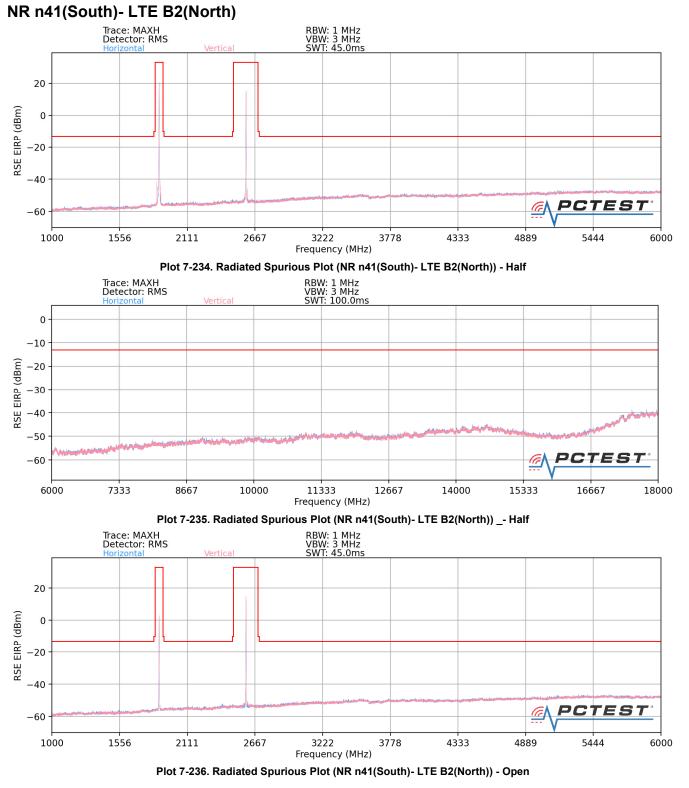
Bandwidth (MHz):	100
Frequency (MHz):	2593.0
RB / Offset:	1 / 136
Mode:	EN-DC
Anchor Band:	LTE Band 2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1167.0	V	-	-	-76.39	-2.15	28.46	-66.79	-25.00	-41.79
3306.0	V	-	-	-77.34	3.55	33.21	-62.05	-25.00	-37.05
4019.0	V	-	-	-78.12	3.96	32.84	-62.42	-25.00	-37.42
4732.0	V	-	-	-78.40	6.20	34.80	-60.46	-25.00	-35.46

Table 7-51. Radiated Spurious Data (NR n41(North)- LTE B2(South))

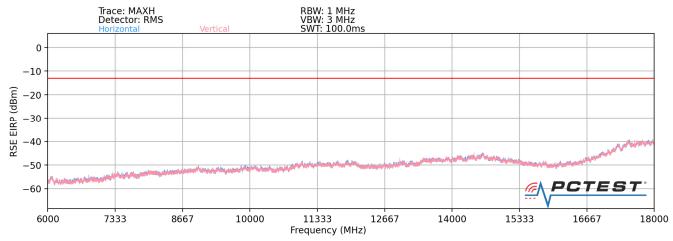
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Bandwidth (MHz):	100	
Frequency (MHz):	2593 / 1880	
RB / Offset:	1/136, 1/50	
Mode:	EN-DC	
Anchor Band:	LTE Band 2	

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
1167.0	V	-	-	-71.25	-5.42	30.33	-64.92	-25.00	-39.92
3306.0	V	-	-	-70.97	2.06	38.09	-57.17	-25.00	-32.17
4019.0	V	-	-	-76.96	3.62	33.66	-61.60	-25.00	-36.60
4723.0	V	-	-	-77.41	3.84	33.43	-61.83	-25.00	-36.83
5445.0	V	-	-	-76.51	5.90	36.39	-58.87	-25.00	-33.87

Table 7-52. Radiated Spurious Data (NR n41(South)- LTE B2(North))

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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/TIA-603-E-2016. 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.

Test Procedure Used

ANSI/TIA-603-E-2016

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

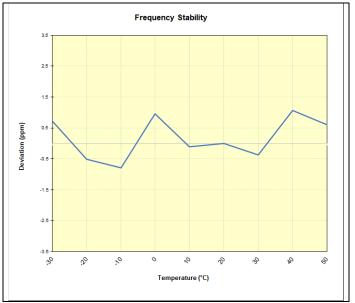
None

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LTE Band 30								
	Operating F	requency (Hz):	2,310,0	00,000]			
	Ref.	Voltage (VDC):	4.	24				
					-			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)			
		- 30	2,310,003,834	1,698	0.0000735			
		- 20	2,310,000,965	-1,171	-0.0000507			
		- 10	2,310,000,327	-1,810	-0.0000783			
		0	2,310,004,338	2,202	0.0000953			
100 %	4.24	+ 10	2,310,001,890	-247	-0.0000107			
		+ 20 (Ref)	2,310,002,137	0	0.0000000			
		+ 30	2,310,001,272	-865	-0.0000374			
		+ 40	2,310,004,599	2,462	0.0001066			
		+ 50	2,310,003,539	1,403	0.0000607			
Battery Endpoint	3.70	+ 20	2,310,001,719	-418	-0.0000181			

Table 7-53. LTE Band 30 Frequency Stability Data



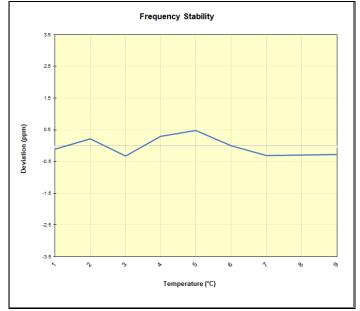
Plot 7-238. LTE Band 30 Frequency Stability Chart

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LTE Band 7								
	Operating F	requency (Hz):	2,535,0	00,000				
	Ref.	Voltage (VDC):	4.	24				
			•					
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)			
		- 30	2,535,001,617	-281	-0.0000111			
		- 20	2,535,002,454	556	0.0000219			
		- 10	2,535,001,093	-805	-0.0000318			
		0	2,535,002,645	746	0.0000294			
100 %	4.24	+ 10	2,535,003,104	1,206	0.0000476			
		+ 20 (Ref)	2,535,001,899	0	0.0000000			
		+ 30	2,535,001,108	-791	-0.0000312			
		+ 40	2,535,001,164	-734	-0.0000290			
		+ 50	2,535,001,201	-697	-0.0000275			
Battery Endpoint	3.70	+ 20	2,535,001,121	-778	-0.0000307			

Table 7-54. LTE Band 7 Frequency Stability Data



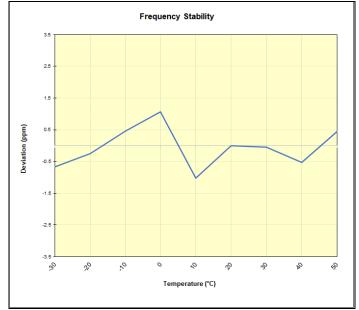
Plot 7-239. LTE Band 7 Frequency Stability Chart

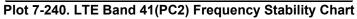
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LTE Band 41/38								
	Operating F	requency (Hz):	2,593,0	00,000]			
	Ref.	Voltage (VDC):	4.	24	1			
			•		-			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)			
		- 30	2,593,005,373	-1,725	-0.0000665			
		- 20	2,593,006,444	-655	-0.0000252			
		- 10	2,593,008,293	1,195	0.0000461			
		0	2,593,009,863	2,765	0.0001066			
100 %	4.24	+ 10	2,593,004,458	-2,640	-0.0001018			
		+ 20 (Ref)	2,593,007,098	0	0.0000000			
		+ 30	2,593,006,970	-128	-0.0000049			
		+ 40	2,593,005,723	-1,375	-0.0000530			
		+ 50	2,593,008,244	1,145	0.0000442			
Battery Endpoint	3.70	+ 20	2,593,005,266	-1,833	-0.0000707			

Table 7-55. LTE Band 41(PC2) Frequency Stability Data



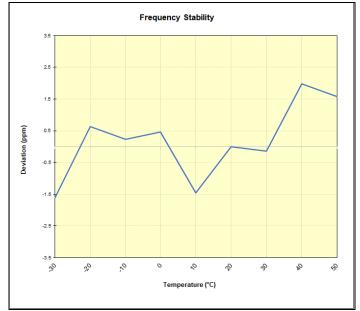


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NR Band n41						
	Operating Frequency (Hz):		2,593,000,000			
	Ref. Voltage (VDC):		4.24		-	
					-	
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)	
		- 30	2,583,522,166	-4,179	-0.0001618	
		- 20	2,583,527,979	1,634	0.0000632	
		- 10	2,583,526,930	584	0.0000226	
		0	2,583,527,556	1,211	0.0000469	
100 %	4.24	+ 10	2,583,522,576	-3,770	-0.0001459	
		+ 20 (Ref)	2,583,526,346	0	0.0000000	
		+ 30	2,583,526,002	-344	-0.0000133	
		+ 40	2,583,531,452	5,106	0.0001976	
		+ 50	2,583,530,425	4,079	0.0001579	
Battery Endpoint	3.70	+ 20	2,583,524,538	-1,807	-0.0000700	

Table 7-56. NR Band n41 Frequency Stability Data





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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Microsoft Corporation Portable Handset FCC ID:C3K1995** complies with all the requirements of Part 27 of the FCC rules.

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