



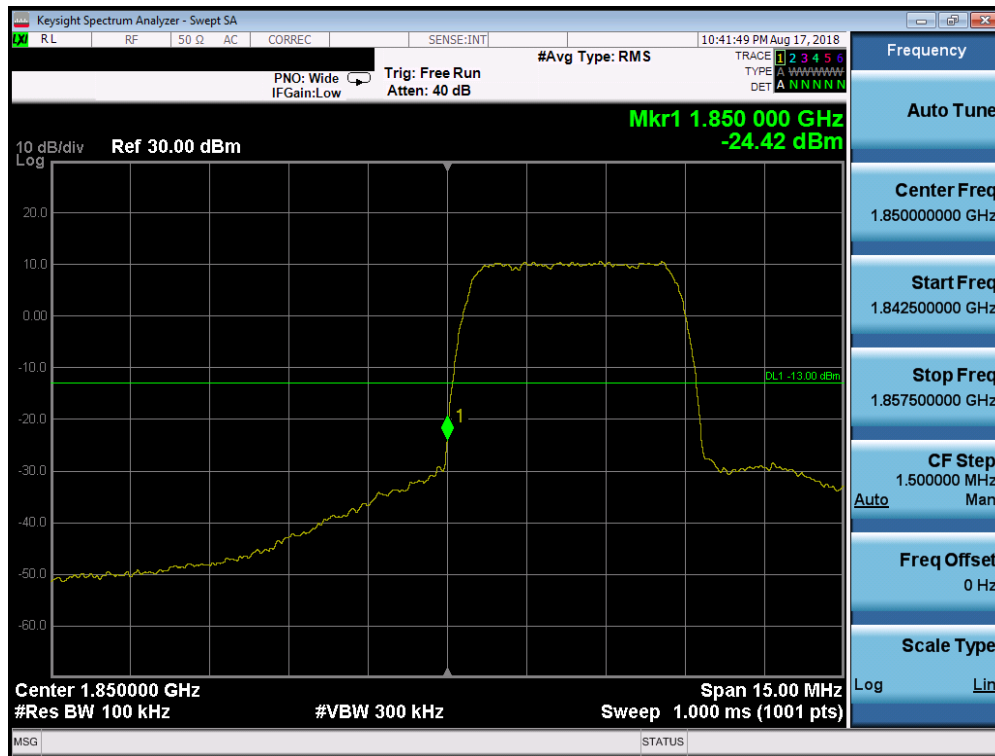
Plot 7-63. Band Edge Plot (AWS WCDMA Mode - High Channel)



Plot 7-64. Extended Band Edge Plot (AWS WCDMA Mode - High Channel)

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PCS WCDMA Mode

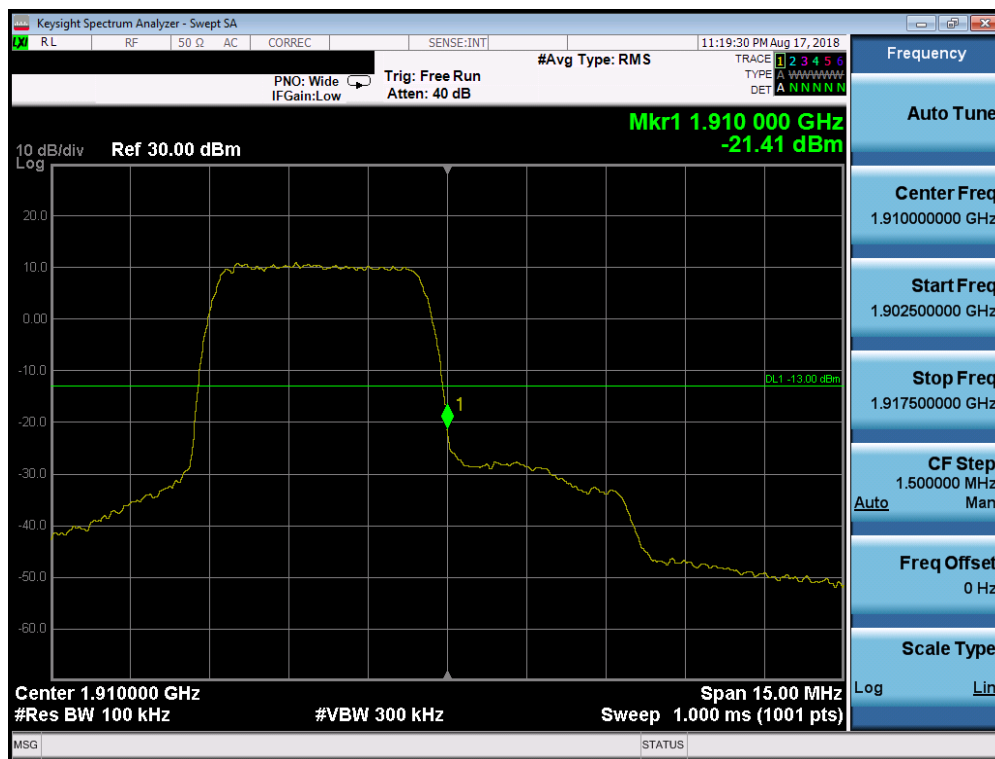


Plot 7-65. Band Edge Plot (PCS WCDMA Mode - Low Channel)



Plot 7-66. Extended Band Edge Plot (PCS WCDMA Mode - Low Channel)

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Plot 7-67. Band Edge Plot (PCS WCDMA Mode - High Channel)



Plot 7-68. Extended Band Edge Plot (PCS WCDMA Mode - High Channel)

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7.5 Peak-Average Ratio

Test Overview

A peak to average ratio measurement is performed at the conducted port of the EUT. The spectrum analyzers Complementary Cumulative Distribution Function (CCDF) measurement profile is used to determine the largest deviation between the average and the peak power of the EUT in a given bandwidth. The CCDF curve shows how much time the peak waveform spends at or above a given average power level. The percent of time the signal spends at or above the level defines the probability for that particular power level.

Test Procedure Used

KDB 971168 D01 v03r01 – Section 5.7.1

Test Settings

1. The signal analyzer's CCDF measurement profile is enabled
2. Frequency = carrier center frequency
3. Measurement BW > Emission bandwidth of signal
4. The signal analyzer was set to collect one million samples to generate the CCDF curve
5. The measurement interval was set depending on the type of signal analyzed. For continuous signals (>98% duty cycle), the measurement interval was set to 1ms. For burst transmissions, the spectrum analyzer is set to use an internal "RF Burst" trigger that is synced with an incoming pulse and the measurement interval is set to less than the duration of the "on time" of one burst to ensure that energy is only captured during a time in which the transmitter is operating at maximum power

Test Setup

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

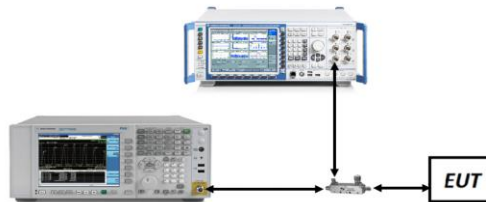
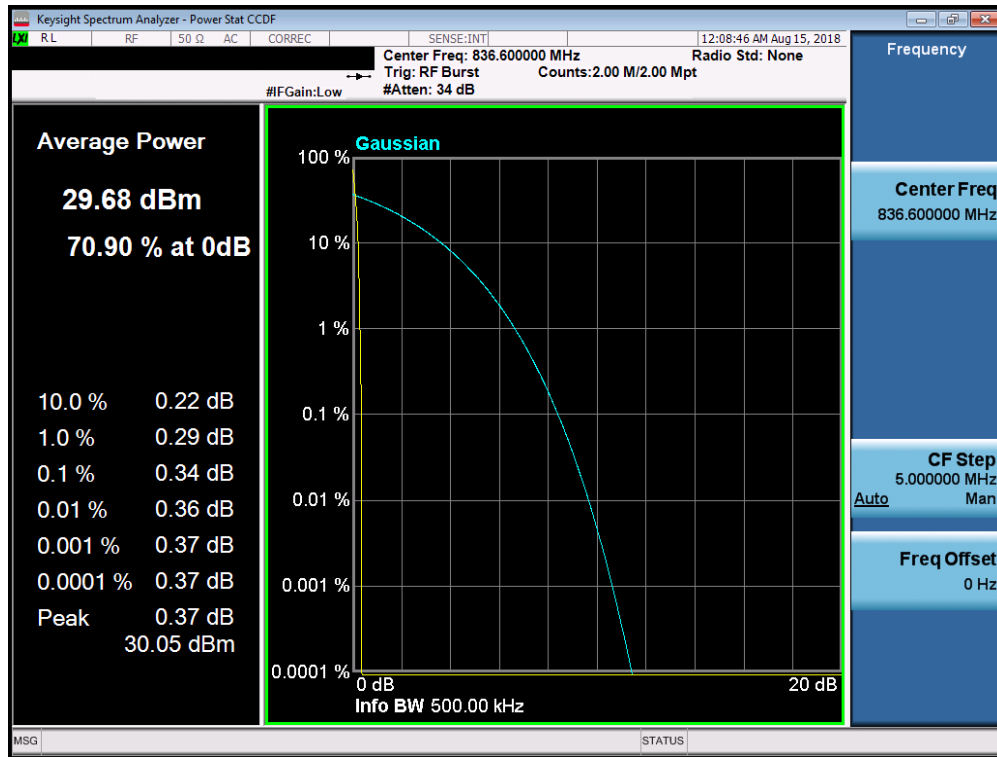


Figure 7-4. Test Instrument & Measurement Setup

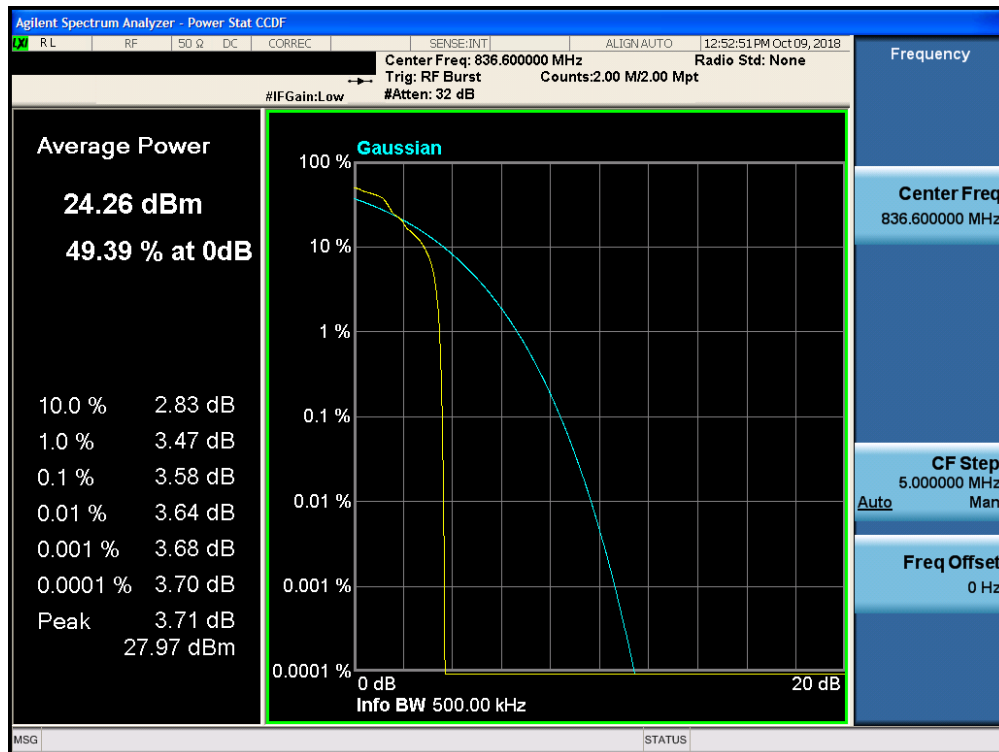
Test Notes

1. All ports were tested and only the worst case data were reported.
2. Refer to Table 2-1 Section 2.3 of this test report for correlation between Antennas and Ports.

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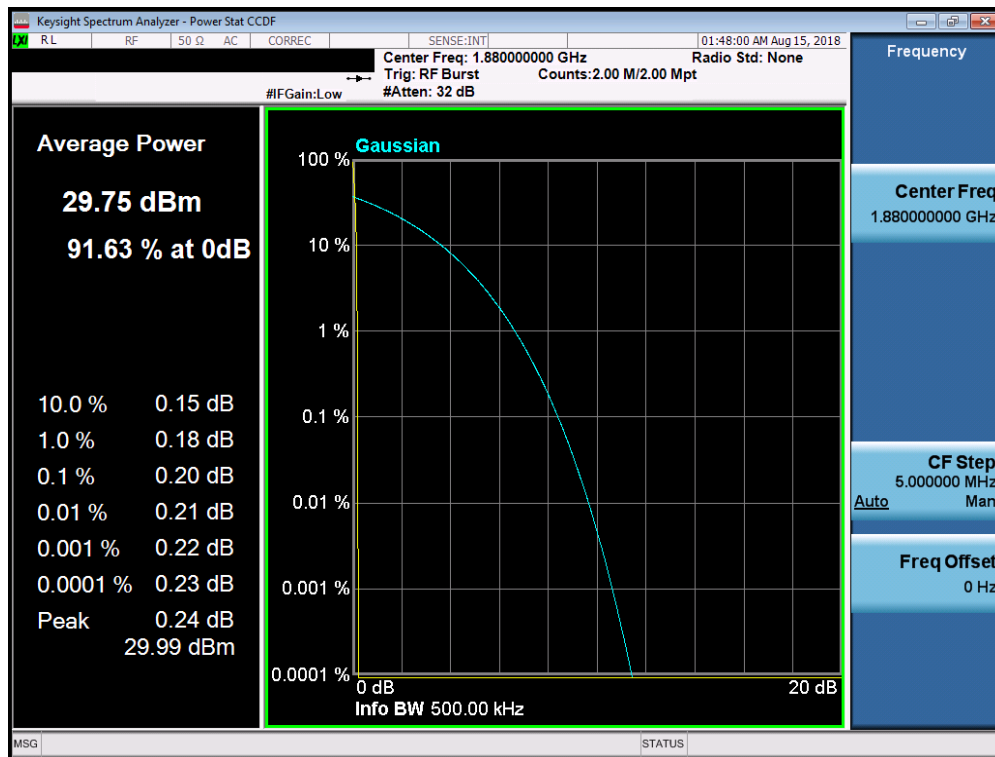


Plot 7-69. Peak-Average Ratio Plot (Cellular GPRS Mode)



Plot 7-70. Peak-Average Ratio Plot (EDGE850 Mode)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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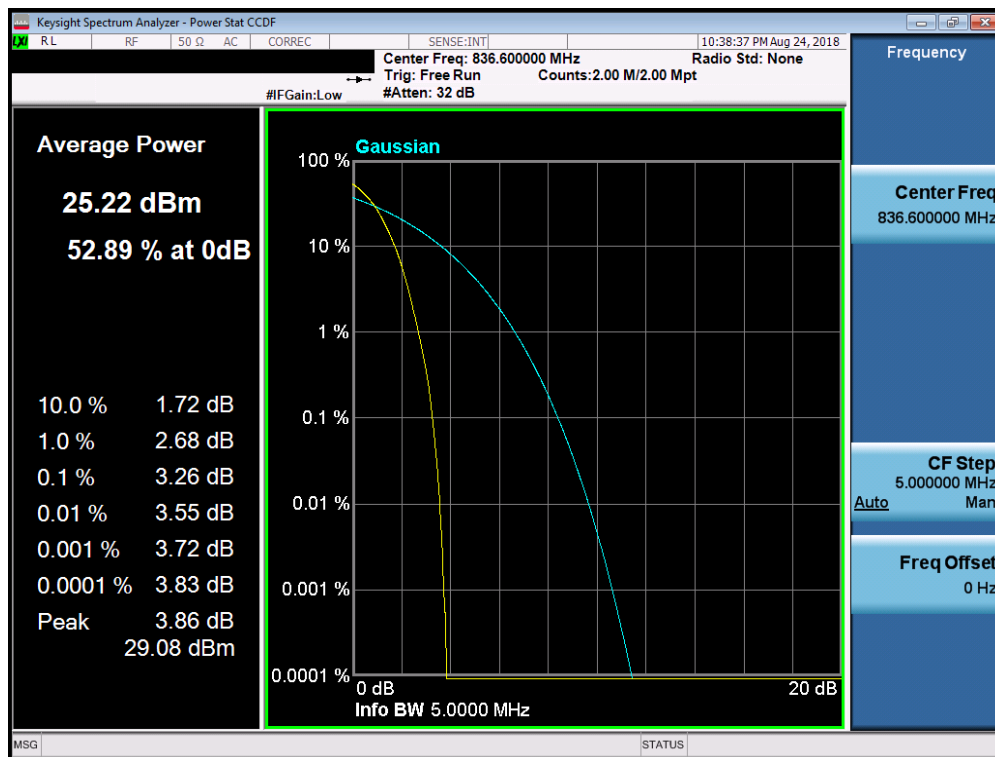


Plot 7-71. Peak-Average Ratio Plot (PCS GPRS Mode)

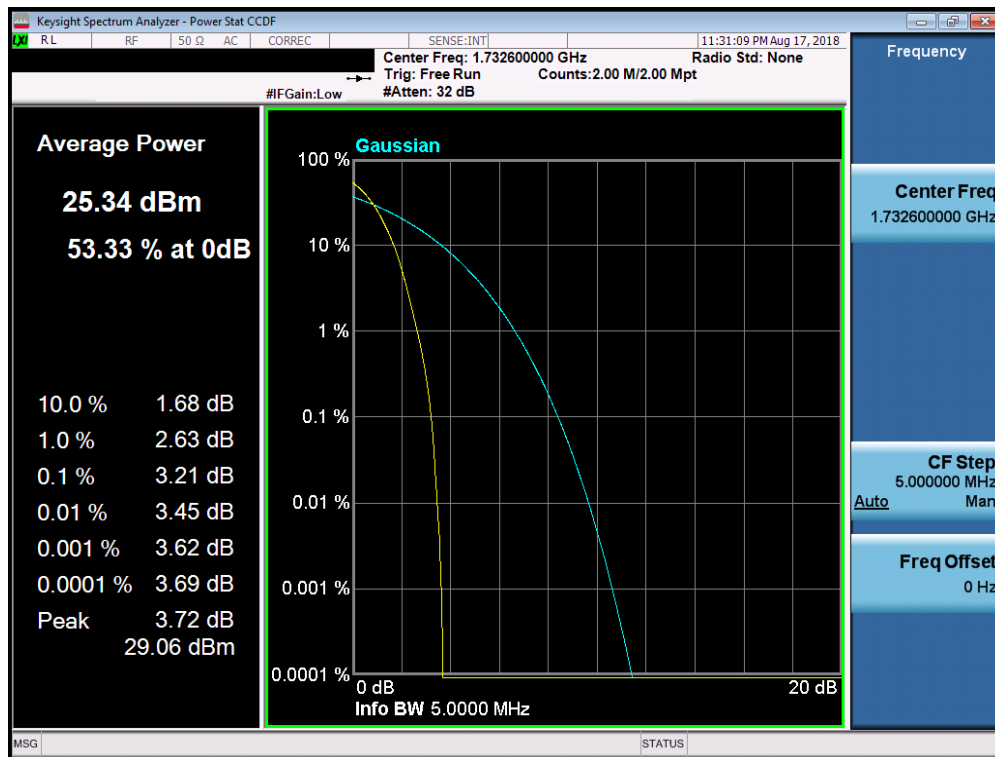


Plot 7-72. Peak-Average Ratio Plot (EDGE1900 Mode)

FCC ID: BCGA2014			MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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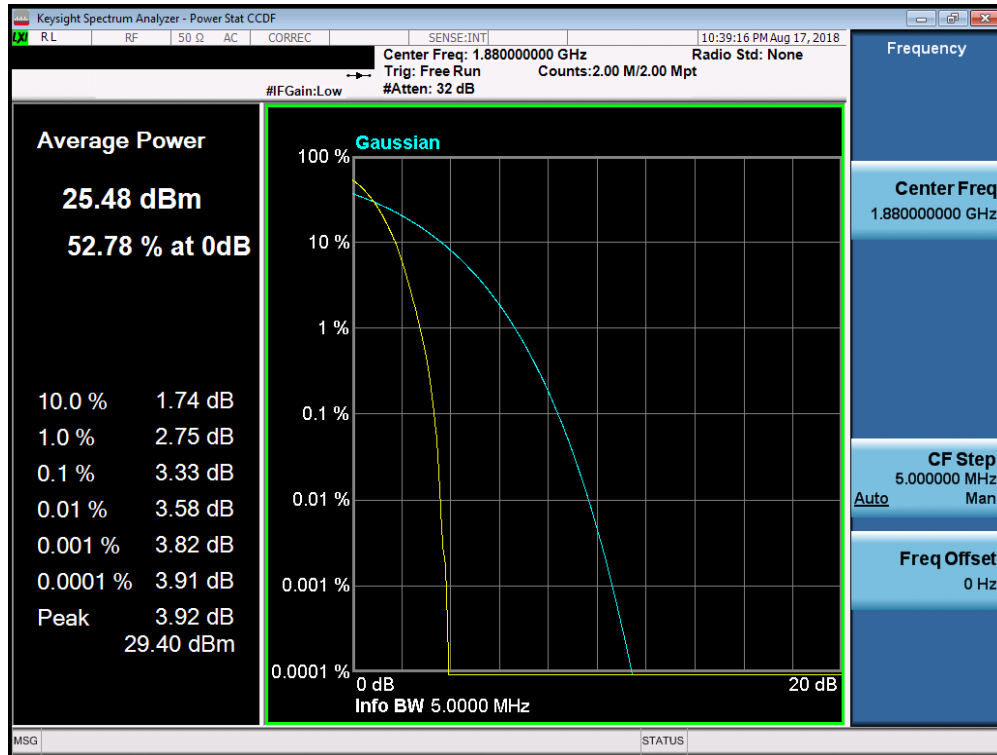


Plot 7-73. Peak-Average Ratio Plot (Cellular WCDMA Mode)



Plot 7-74. Peak-Average Ratio Plot (AWS WCDMA Mode)

FCC ID: BCGA2014	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Plot 7-75. Peak-Average Ratio Plot (PCS WCDMA Mode)

FCC ID: BCGA2014	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.6 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/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using vertically and horizontally polarized tuned dipole antennas. Measurements on signals operating above 1GHz 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

KDB 971168 D01 v03r01 – Section 5.2.1

Test Settings

The relevant equation for determining the ERP or EIRP from the conducted RF output power measured is:

$$\text{ERP/EIRP} = \text{PMeas} - \text{LC} + \text{GT}$$

Where:

ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm)

PMeas = measured transmitter output power or PSD, in dBW or dBm

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

Test Setup

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



Figure 7-5. ERP/EIRP Measurement Setup

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Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest power is reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 3) This unit was tested with its standard battery.
- 4) The Ant. Gains (GT) are listed in dBi.
- 5) Refer to Table 2-1 Section 2.3 of this test report for correlation between Antennas and Ports.

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7.6.1 Port A Radiated Power (ERP/EIRP)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.20	GPRS850	30.00	-3.80	24.05	0.254	38.45	-14.40	26.20	0.417	40.61	-14.41
836.60	GPRS850	29.90	-3.80	23.95	0.248	38.45	-14.50	26.10	0.407	40.61	-14.51
848.80	GPRS850	30.10	-3.80	24.15	0.260	38.45	-14.30	26.30	0.427	40.61	-14.31
824.20	EDGE850	24.60	-3.80	18.65	0.073	38.45	-19.80	20.80	0.120	40.61	-19.81

Table 7-2. ERP/EIRP (Cellular GPRS)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
826.40	WCDMA850	25.41	-3.80	19.46	0.088	38.45	-18.99	21.61	0.145	40.61	-19.00
836.60	WCDMA850	25.41	-3.80	19.46	0.088	38.45	-18.99	21.61	0.145	40.61	-19.00
846.60	WCDMA850	25.50	-3.80	19.55	0.090	38.45	-18.90	21.70	0.148	40.61	-18.91

Table 7-3. ERP/EIRP (Cellular WCDMA)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	25.24	-2.80	22.44	0.175	30.00	-7.56
1732.60	WCDMA1700	25.48	-2.80	22.68	0.185	30.00	-7.32
1752.60	WCDMA1700	25.48	-2.80	22.68	0.185	30.00	-7.32

Table 7-4. EIRP (AWS WCDMA)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GPRS1900	30.00	-2.20	27.80	0.603	33.01	-5.21
1880.00	GPRS1900	30.00	-2.20	27.80	0.603	33.01	-5.21
1909.80	GPRS1900	30.00	-2.20	27.80	0.603	33.01	-5.21
1909.80	EDGE1900	25.00	-2.20	22.80	0.191	33.01	-10.21

Table 7-5. EIRP (PCS GPRS)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	25.32	-2.20	23.12	0.205	33.01	-9.89
1880.00	WCDMA1900	25.28	-2.20	23.08	0.203	33.01	-9.93
1907.60	WCDMA1900	25.33	-2.20	23.13	0.206	33.01	-9.88

Table 7-6. EIRP (PCS WCDMA)

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7.6.2 Port B Radiated Power (ERP/EIRP)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
824.20	GPRS850	27.50	-3.20	22.15	0.164	38.45	-16.30	24.30	0.269	40.61	-16.31
836.60	GPRS850	27.36	-3.20	22.01	0.159	38.45	-16.44	24.16	0.261	40.61	-16.45
848.80	GPRS850	27.39	-3.20	22.04	0.160	38.45	-16.41	24.19	0.262	40.61	-16.42
824.20	EDGE850	21.95	-3.20	16.60	0.046	38.45	-21.85	18.75	0.075	40.61	-21.86

Table 7-7. ERP/EIRP (Cellular GPRS)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
826.40	WCDMA850	23.72	-3.20	18.37	0.069	38.45	-20.08	20.52	0.113	40.61	-20.09
836.60	WCDMA850	23.74	-3.20	18.39	0.069	38.45	-20.06	20.54	0.113	40.61	-20.07
846.60	WCDMA850	23.75	-3.20	18.40	0.069	38.45	-20.05	20.55	0.114	40.61	-20.06

Table 7-8. ERP/EIRP (Cellular WCDMA)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	22.25	-3.80	18.45	0.070	30.00	-11.55
1732.50	WCDMA1700	22.16	-3.80	18.36	0.069	30.00	-11.64
1752.50	WCDMA1700	22.17	-3.80	18.37	0.069	30.00	-11.63

Table 7-9. EIRP (AWS WCDMA)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GPRS1900	26.75	-2.40	24.35	0.272	33.01	-8.66
1880.00	GPRS1900	26.72	-2.40	24.32	0.270	33.01	-8.69
1909.80	GPRS1900	26.60	-2.40	24.20	0.263	33.01	-8.81
1850.20	EDGE1900	21.75	-2.40	19.35	0.086	33.01	-13.66

Table 7-10. EIRP (PCS GPRS)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	22.25	-2.40	19.85	0.097	33.01	-13.16
1880.00	WCDMA1900	22.12	-2.40	19.72	0.094	33.01	-13.29
1907.60	WCDMA1900	22.20	-2.40	19.80	0.095	33.01	-13.21

Table 7-11. EIRP (PCS WCDMA)

FCC ID: BCGA2014		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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7.6.3 Port C Radiated Power (ERP/EIRP)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	24.50	-3.00	21.50	0.141	30.00	-8.50
1732.50	WCDMA1700	24.35	-3.00	21.35	0.136	30.00	-8.65
1752.50	WCDMA1700	24.30	-3.00	21.30	0.135	30.00	-8.70

Table 7-12. EIRP (AWS WCDMA)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GPRS1900	29.00	-2.20	26.80	0.479	33.01	-6.21
1880.00	GPRS1900	29.14	-2.20	26.94	0.494	33.01	-6.07
1909.80	GPRS1900	29.12	-2.20	26.92	0.492	33.01	-6.09
1850.20	EDGE1900	24.10	-2.20	21.90	0.155	33.01	-11.11

Table 7-13. EIRP (PCS GPRS)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	24.43	-2.20	22.23	0.167	33.01	-10.78
1880.00	WCDMA1900	24.40	-2.20	22.20	0.166	33.01	-10.81
1907.60	WCDMA1900	24.42	-2.20	22.22	0.167	33.01	-10.79

Table 7-14. EIRP (PCS WCDMA)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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7.6.4 Port D Radiated Power (ERP/EIRP)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.40	WCDMA1700	24.50	-3.00	21.50	0.141	30.00	-8.50
1732.50	WCDMA1700	24.35	-3.00	21.35	0.136	30.00	-8.65
1752.50	WCDMA1700	24.30	-3.00	21.30	0.135	30.00	-8.70

Table 7-15. EIRP (AWS WCDMA)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GPRS1900	26.53	-1.40	25.13	0.326	33.01	-7.88
1880.00	GPRS1900	26.47	-1.40	25.07	0.322	33.01	-7.94
1909.80	GPRS1900	26.51	-1.40	25.11	0.324	33.01	-7.90
1850.20	EDGE1900	21.60	-1.40	20.20	0.105	33.01	-12.81

Table 7-16. EIRP (PCS GPRS)

Frequency [MHz]	Mode	Conducted Power [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	22.00	-1.40	20.60	0.115	33.01	-12.41
1880.00	WCDMA1900	21.88	-1.40	20.48	0.112	33.01	-12.53
1907.60	WCDMA1900	21.82	-1.40	20.42	0.110	33.01	-12.59

Table 7-17. EIRP (PCS WCDMA)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
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7.7 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the substitution method described in ANSI/TIA-603-E-2016 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using horizontally and vertically polarized tuned dipole antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as peak measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

KDB 971168 D01 v03r01 – Section 5.8

ANSI/TIA-603-E-2016 – Section 2.2.12

Test Settings

1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
2. VBW $\geq 3 \times$ RBW
3. Span = 1.5 times the OBW
4. No. of sweep points $\geq 2 \times$ span / RBW
5. Detector = RMS
6. Trace mode = Average (Max Hold for pulsed emissions)
7. The trace was allowed to stabilize

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Test Setup

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

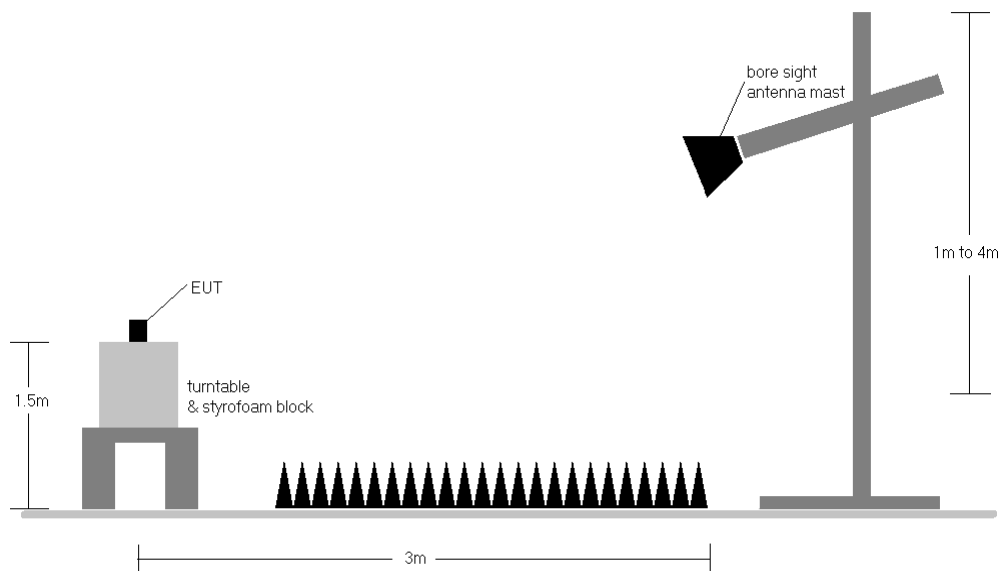


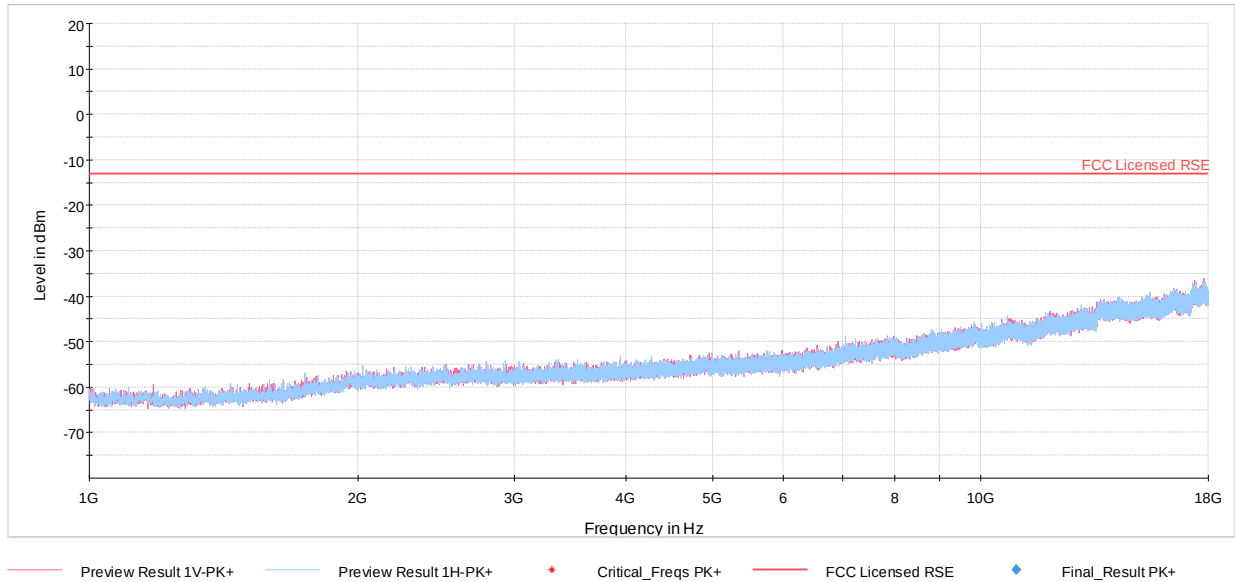
Figure 7-6. Test Instrument & Measurement Setup

Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest power is reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest power is reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1."
- 3) This unit was tested with its standard battery.
- 4) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst case setup is reported in the tables below.
- 5) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 6) 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.
- 7) The "-" shown in the following RSE tables are used to denote a noise floor measurement.

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7.7.1 ANT 3 (Port A) Radiated Spurious Emissions Measurements Cellular GPRS Mode



Plot 7-76. Radiated Spurious Data (Cellular GPRS Mode)

OPERATING FREQUENCY: 824.20 MHz
CHANNEL: 128
MODULATION SIGNAL: GPRS (GMSK)
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1648.40	H	106	178	-54.69	4.48	-50.21	-37.2
2472.60	H	252	369	-56.02	5.58	-50.44	-37.4
3296.80	H	-	-	-61.87	7.22	-54.65	-41.7
4121.00	H	-	-	-61.36	7.75	-53.61	-40.6

Table 7-18. Radiated Spurious Data (Cellular GPRS Mode – Ch. 128)

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OPERATING FREQUENCY: 836.60 MHz
CHANNEL: 190
MODULATION SIGNAL: GPRS (GMSK)
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.20	H	150	181	-51.45	4.46	-46.99	-34.0
2509.80	H	262	236	-55.40	5.62	-49.79	-36.8
3346.40	H	-	-	-60.66	7.24	-53.42	-40.4
4183.00	H	-	-	-60.98	7.68	-53.30	-40.3

Table 7-19. Radiated Spurious Data (Cellular GPRS Mode – Ch. 190)

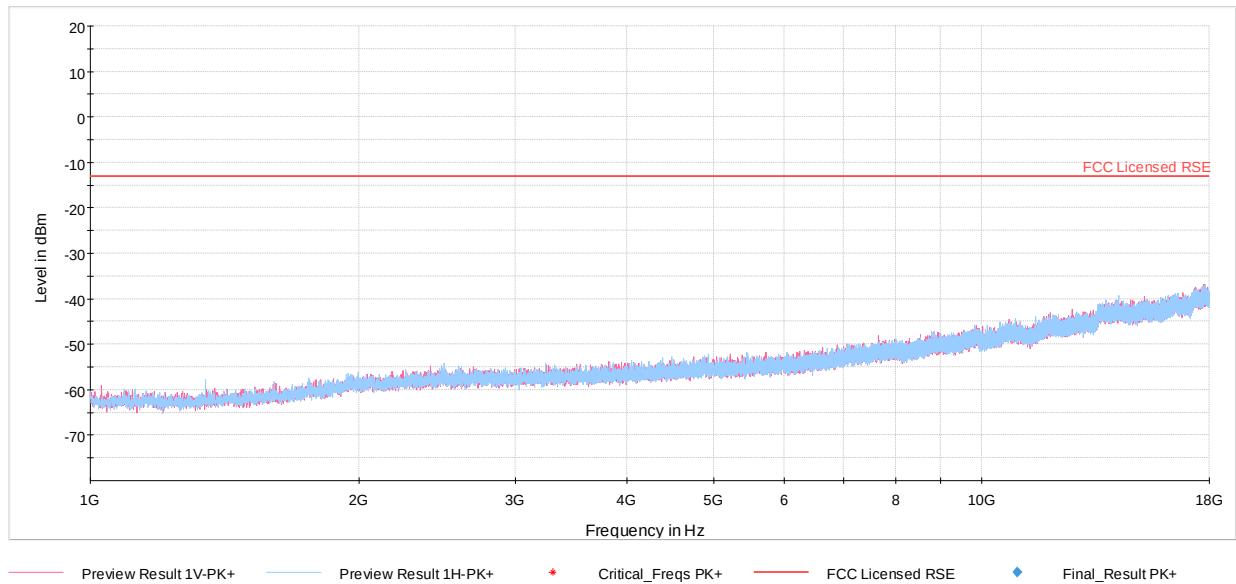
OPERATING FREQUENCY: 848.80 MHz
CHANNEL: 251
MODULATION SIGNAL: GPRS (GMSK)
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1697.60	H	110	172	-49.89	4.44	-45.45	-32.4
2546.40	H	170	270	-55.81	5.68	-50.13	-37.1
3395.20	H	-	-	-61.70	7.26	-54.44	-41.4
4244.00	H	-	-	-61.12	7.61	-53.51	-40.5

Table 7-20. Radiated Spurious Data (Cellular GPRS Mode – Ch. 251)

FCC ID: BCGA2014		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 69 of 111

Cellular WCDMA Mode



Plot 7-77. Radiated Spurious Data (Cellular WCDMA Mode)

OPERATING FREQUENCY: 826.40 MHz
 CHANNEL: 4132
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1652.80	H	-	-	-71.21	4.47	-66.74	-53.7
2479.20	H	-	-	-68.34	5.58	-62.75	-49.8
3305.60	H	-	-	-70.01	7.22	-62.79	-49.8

Table 7-21. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4132)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device		Page 70 of 111

OPERATING FREQUENCY: 836.60 MHz
 CHANNEL: 4183
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.20	H	-	-	-70.86	4.46	-66.41	-53.4
2509.80	H	-	-	-68.48	5.62	-62.86	-49.9
3346.40	H	-	-	-69.84	7.24	-62.60	-49.6

Table 7-22. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4183)

OPERATING FREQUENCY: 846.60 MHz
 CHANNEL: 4233
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

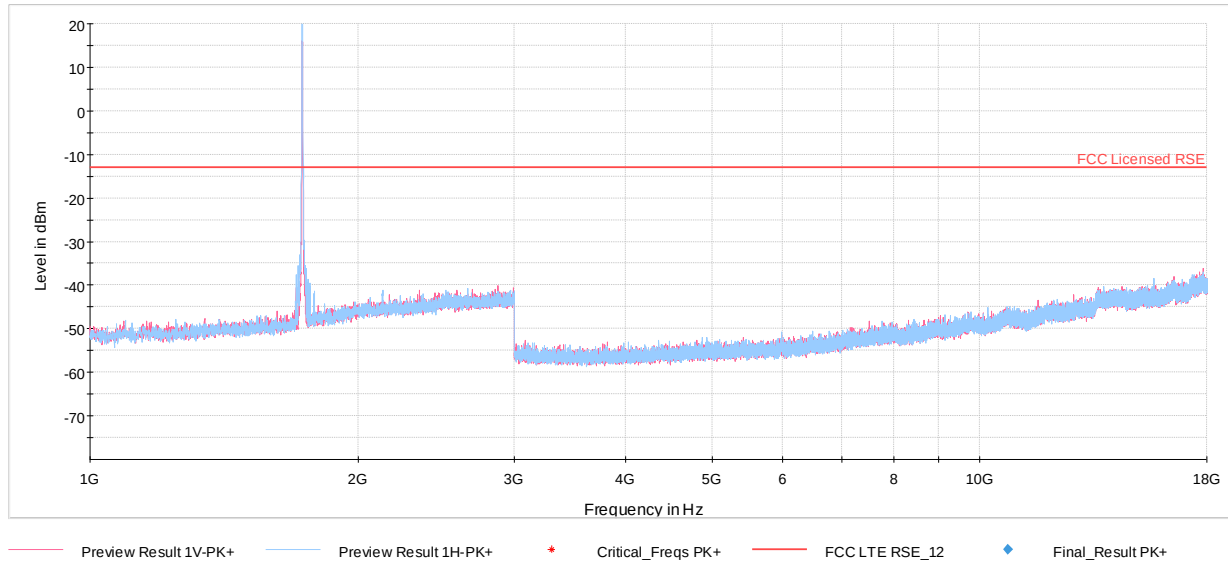
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1693.20	H	-	-	-70.81	4.44	-66.37	-53.4
2539.80	H	-	-	-68.47	5.67	-62.80	-49.8
3386.40	H	-	-	-69.69	7.26	-62.44	-49.4

Table 7-23. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4233)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 71 of 111

7.7.2 ANT 4b (Port A) Radiated Spurious Emissions Measurements

AWS WCDMA Mode



Plot 7-78. Radiated Spurious Data (AWS WCDMA Mode)

OPERATING FREQUENCY: 1712.40 MHz
CHANNEL: 1312
MODULATION SIGNAL: WCDMA
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3424.80	H	-	-	-70.26	7.53	-62.72	-49.7
5137.20	H	-	-	-70.73	9.79	-60.94	-47.9
6849.60	H	-	-	-68.63	10.96	-57.67	-44.7

Table 7-24. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1312)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device		Page 72 of 111

OPERATING FREQUENCY: 1732.60 MHz
 CHANNEL: 1413
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3465.20	H	-	-	-69.85	7.62	-62.22	-49.2
5197.80	H	-	-	-70.12	9.75	-60.37	-47.4
6930.40	H	-	-	-68.76	11.05	-57.71	-44.7

Table 7-25. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1413)

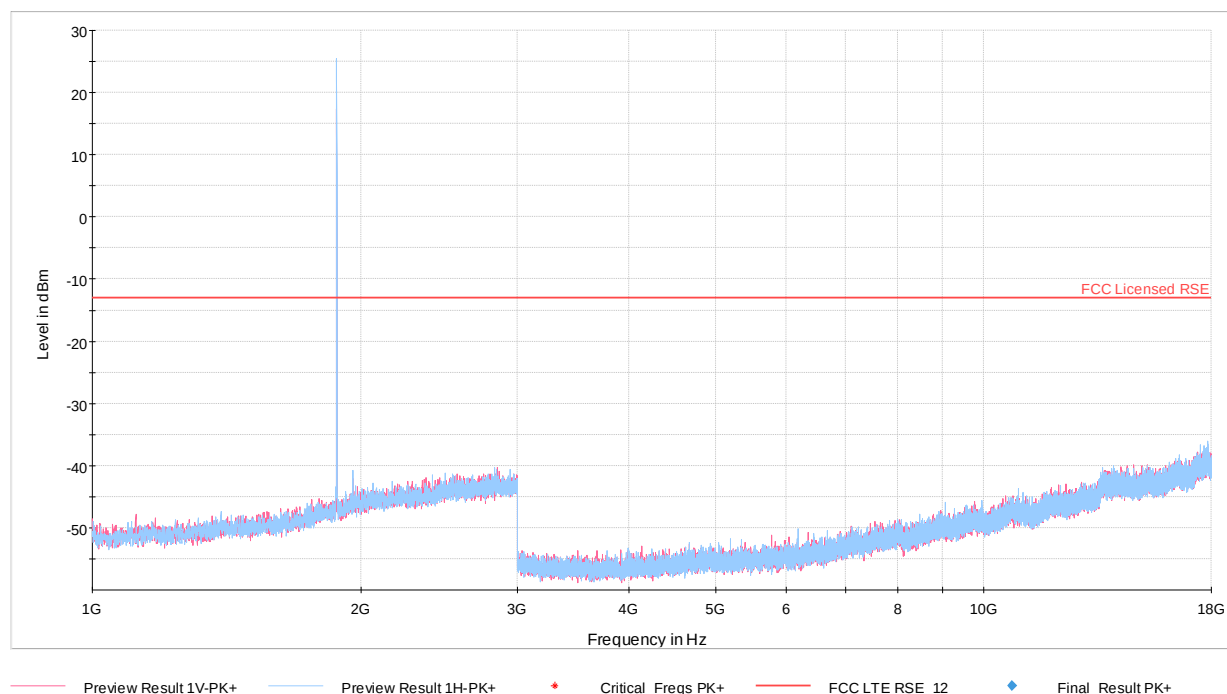
OPERATING FREQUENCY: 1752.60 MHz
 CHANNEL: 1513
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3505.20	H	-	-	-70.00	7.68	-62.32	-49.3
5257.80	H	-	-	-70.01	9.74	-60.27	-47.3
7010.40	H	-	-	-68.70	11.08	-57.61	-44.6

Table 7-26. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1513)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 73 of 111

PCS GPRS Mode



Plot 7-79. Radiated Spurious Data (PCS GPRS Mode)

OPERATING FREQUENCY: 1850.20 MHz
 CHANNEL: 512
 MODULATION SIGNAL: GPRS (GMSK)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3700.40	H	-	-	-60.13	7.10	-53.04	-40.0
5550.60	V	297	172	-57.40	10.07	-47.33	-34.3
7400.80	V	-	-	-58.43	11.59	-46.85	-33.8

Table 7-27. Radiated Spurious Data (PCS GPRS Mode – Ch. 512)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device		Page 74 of 111

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 661
 MODULATION SIGNAL: GPRS (GMSK)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3760.00	V	-	-	-58.54	7.10	-51.44	-38.4
5640.00	V	277	154	-56.21	10.04	-46.16	-33.2
7520.00	H	-	-	-58.46	11.68	-46.78	-33.8

Table 7-28. Radiated Spurious Data (PCS GPRS Mode – Ch. 661)

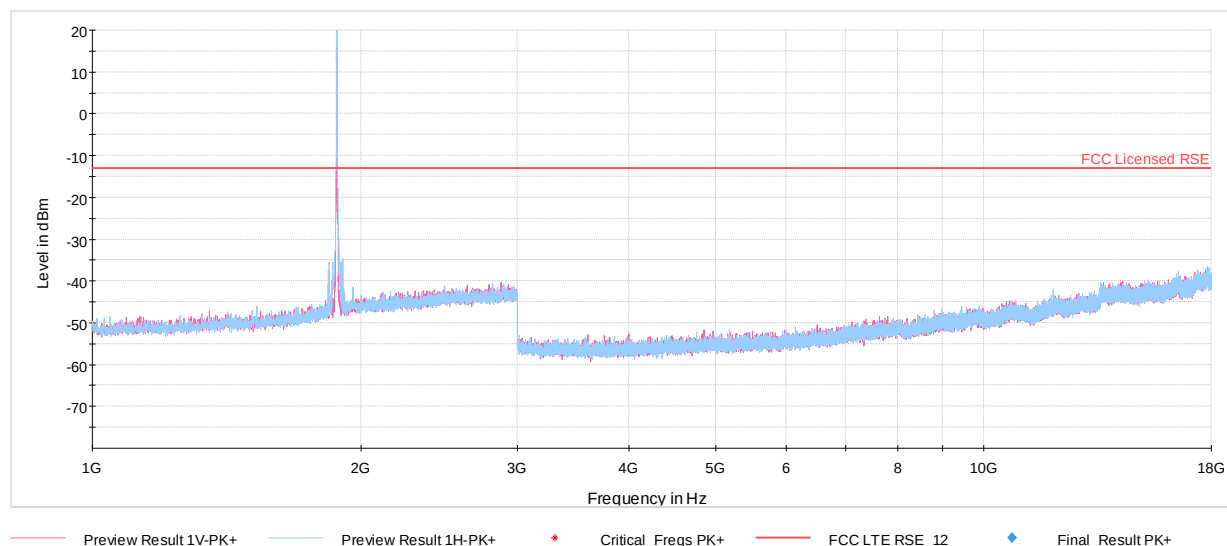
OPERATING FREQUENCY: 1909.80 MHz
 CHANNEL: 810
 MODULATION SIGNAL: GPRS (GMSK)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3819.60	V	-	-	-59.52	7.31	-52.21	-39.2
5729.40	V	301	154	-54.58	10.05	-44.53	-31.5
7639.20	V	-	-	-58.54	11.75	-46.79	-33.8

Table 7-29. Radiated Spurious Data (PCS GPRS Mode – Ch. 810)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 75 of 111

PCS WCDMA Mode



Plot 7-80. Radiated Spurious Data (PCS WCDMA Mode)

OPERATING FREQUENCY: 1852.40 MHz
 CHANNEL: 9262
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3704.80	H	-	-	-69.61	7.09	-62.51	-49.5
5557.20	H	-	-	-70.46	10.07	-60.39	-47.4
7409.60	H	-	-	-68.20	11.60	-56.60	-43.6

Table 7-30. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9262)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device		Page 76 of 111

OPERATING FREQUENCY: 1880.00 MHz
CHANNEL: 9400
MODULATION SIGNAL: WCDMA
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3760.00	H	-	-	-69.03	7.10	-61.93	-48.9
5640.00	H	-	-	-69.12	10.04	-59.07	-46.1
7520.00	H	-	-	-68.49	11.68	-56.81	-43.8

Table 7-31. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9400)

OPERATING FREQUENCY: 1907.60 MHz
CHANNEL: 9538
MODULATION SIGNAL: WCDMA
DISTANCE: 3 meters
LIMIT: -13 dBm

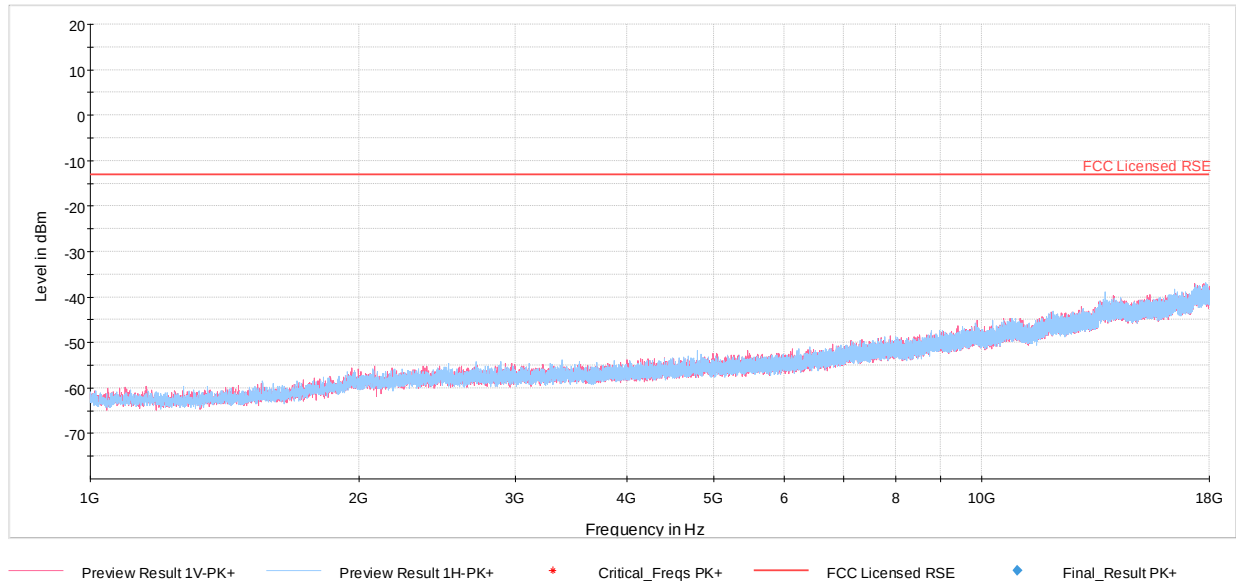
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3815.20	H	-	-	-69.01	7.29	-61.73	-48.7
5722.80	H	-	-	-69.91	10.05	-59.86	-46.9
7630.40	H	-	-	-68.32	11.75	-56.57	-43.6

Table 7-32. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9538)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 77 of 111

7.7.3 ANT 1 (Port B) Radiated Spurious Emissions Measurements

Cellular GPRS Mode



Plot 7-81. Radiated Spurious Data (Cellular GPRS Mode)

OPERATING FREQUENCY: 824.20 MHz
 CHANNEL: 128
 MODULATION SIGNAL: GPRS (GMSK)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1648.40	H	192	52	-62.99	4.48	-58.51	-45.5
2472.60	H	164	60	-62.74	5.58	-57.16	-44.2
3296.80	H	-	-	-64.75	7.22	-57.53	-44.5
4121.00	H	-	-	-60.93	7.75	-53.17	-40.2

Table 7-33. Radiated Spurious Data (Cellular GPRS Mode – Ch. 128)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device		Page 78 of 111

OPERATING FREQUENCY: 836.60 MHz
 CHANNEL: 190
 MODULATION SIGNAL: GPRS (GMSK)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.20	H	203	47	-62.83	4.46	-58.38	-45.4
2509.80	H	133	29	-62.96	5.62	-57.34	-44.3
3346.40	H	-	-	-64.37	7.24	-57.13	-44.1
4183.00	H	-	-	-60.78	7.68	-53.11	-40.1

Table 7-34. Radiated Spurious Data (Cellular GPRS Mode – Ch. 190)

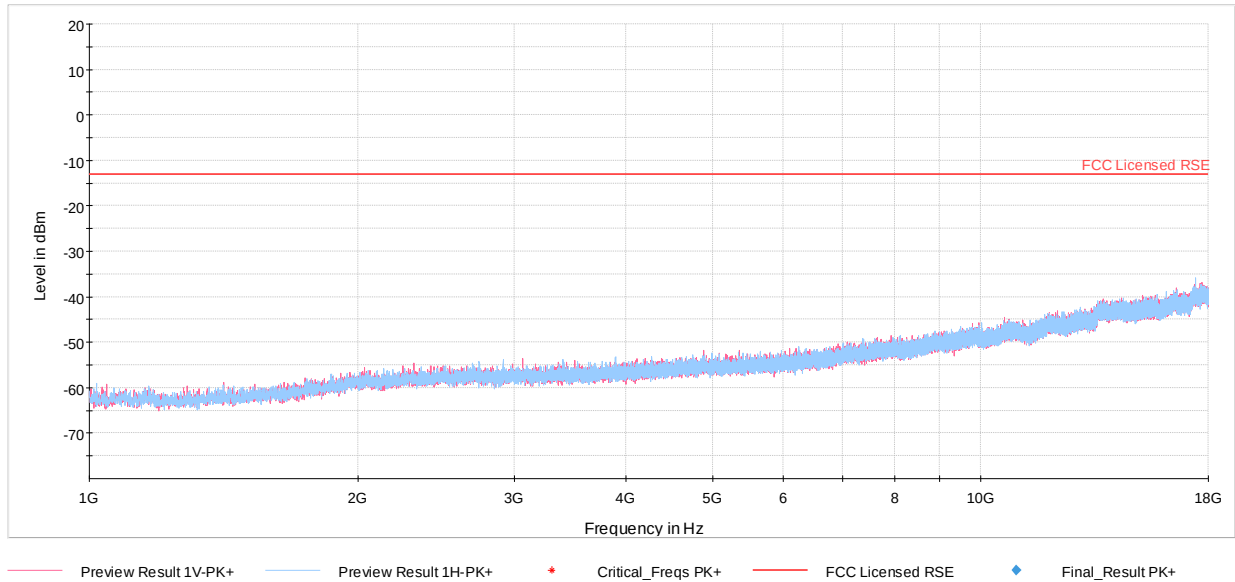
OPERATING FREQUENCY: 848.80 MHz
 CHANNEL: 251
 MODULATION SIGNAL: GPRS (GMSK)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1697.60	H	127	47	-60.49	4.44	-56.05	-43.1
2546.40	H	181	33	-54.52	5.68	-48.85	-35.8
3395.20	H	-	-	-64.21	7.26	-56.95	-44.0
4244.00	H	-	-	-61.52	7.61	-53.91	-40.9

Table 7-35. Radiated Spurious Data (Cellular GPRS Mode – Ch. 251)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 79 of 111

Cellular WCDMA Mode



Plot 7-82. Radiated Spurious Data (Cellular WCDMA Mode)

OPERATING FREQUENCY: 826.40 MHz
 CHANNEL: 4132
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1652.80	H	-	-	-71.26	4.47	-66.79	-53.8
2479.20	H	-	-	-68.37	5.58	-62.78	-49.8
3305.60	H	-	-	-69.81	7.22	-62.59	-49.6

Table 7-36. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4132)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device		Page 80 of 111

OPERATING FREQUENCY: 836.60 MHz
 CHANNEL: 4183
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1673.20	H	-	-	-71.04	4.46	-66.59	-53.6
2509.80	H	-	-	-68.09	5.62	-62.47	-49.5
3346.40	H	-	-	-69.75	7.24	-62.51	-49.5

Table 7-37. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4183)

OPERATING FREQUENCY: 846.60 MHz
 CHANNEL: 4233
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

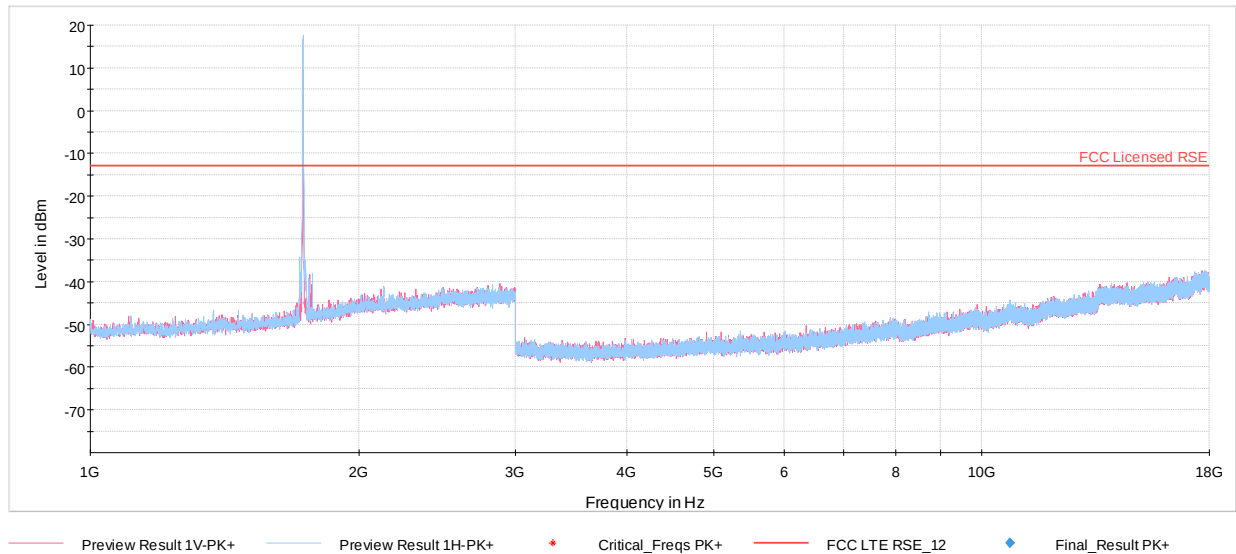
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1693.20	H	-	-	-62.22	4.44	-57.78	-44.8
2539.80	H	-	-	-59.67	5.67	-54.00	-41.0
3386.40	H	-	-	-61.83	7.26	-54.58	-41.6

Table 7-38. Radiated Spurious Data (Cellular WCDMA Mode – Ch. 4233)

FCC ID: BCGA2014		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 81 of 111

7.7.4 ANT 2b (Port B) Radiated Spurious Emissions Measurements

AWS WCDMA Mode



Plot 7-83. Radiated Spurious Data (AWS WCDMA Mode)

OPERATING FREQUENCY: 1712.40 MHz
CHANNEL: 1312
MODULATION SIGNAL: WCDMA
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3424.80	H	-	-	-70.00	7.53	-62.46	-49.5
5137.20	H	-	-	-70.59	9.79	-60.80	-47.8
6849.60	H	-	-	-68.63	10.96	-57.67	-44.7

Table 7-39. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1312)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device		Page 82 of 111

OPERATING FREQUENCY: 1732.60 MHz
 CHANNEL: 1413
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3465.20	H	-	-	-69.90	7.62	-62.27	-49.3
5197.80	H	-	-	-70.18	9.75	-60.43	-47.4
6930.40	H	-	-	-68.69	11.05	-57.64	-44.6

Table 7-40. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1413)

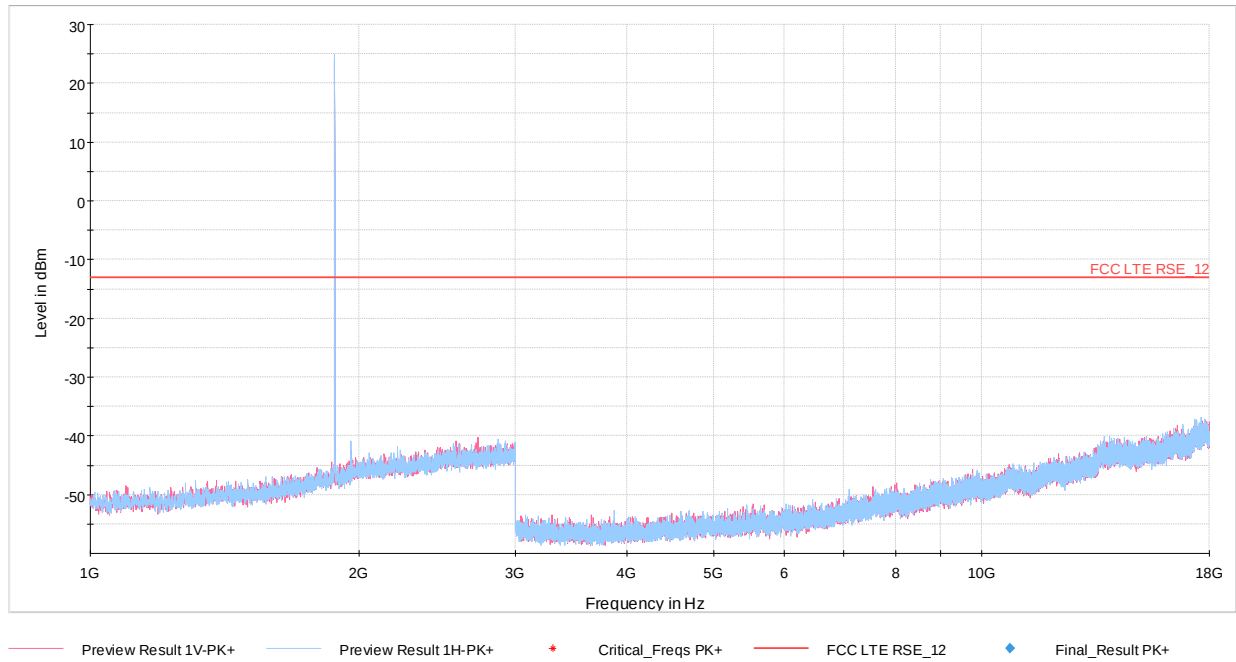
OPERATING FREQUENCY: 1752.60 MHz
 CHANNEL: 1513
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3505.20	H	-	-	-70.00	7.68	-62.32	-49.3
5257.80	H	-	-	-69.93	9.74	-60.19	-47.2
7010.40	H	-	-	-68.79	11.08	-57.70	-44.7

Table 7-41. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1513)

FCC ID: BCGA2014		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 83 of 111

PCS GPRS Mode



Plot 7-84. Radiated Spurious Data (PCS GPRS Mode)

OPERATING FREQUENCY: 1850.20 MHz

CHANNEL: 512

MODULATION SIGNAL: GPRS (GMSK)

DISTANCE: 3 meters

LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3700.40	H	155	135	-62.49	7.10	-55.40	-42.4
5550.60	V	291	271	-60.25	10.07	-50.18	-37.2
7400.80	V	-	-	-58.17	11.59	-46.58	-33.6

Table 7-42. Radiated Spurious Data (PCS GPRS Mode – Ch. 512)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 84 of 111

OPERATING FREQUENCY: 1880.00 MHz

CHANNEL: 661

MODULATION SIGNAL: GPRS (GMSK)

DISTANCE: 3 meters

LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3760.00	H	-	-	-61.71	7.10	-54.60	-41.6
5640.00	H	-	-	-60.68	10.04	-50.64	-37.6
7520.00	H	-	-	-58.41	11.68	-46.73	-33.7

Table 7-43. Radiated Spurious Data (PCS GPRS Mode – Ch. 661)

OPERATING FREQUENCY: 1909.80 MHz

CHANNEL: 810

MODULATION SIGNAL: GPRS (GMSK)

DISTANCE: 3 meters

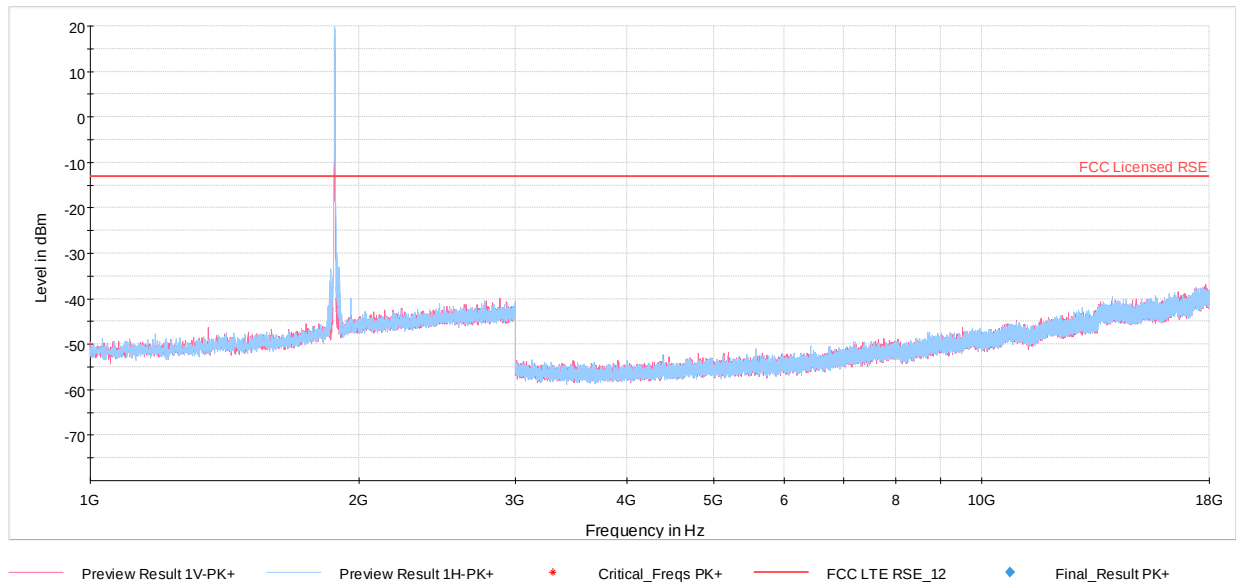
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3819.60	H	-	-	-62.10	7.31	-54.79	-41.8
5729.40	H	-	-	-61.50	10.05	-51.46	-38.5
7639.20	H	-	-	-58.63	11.75	-46.88	-33.9

Table 7-44. Radiated Spurious Data (PCS GPRS Mode – Ch. 810)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 85 of 111

PCS WCDMA Mode



Plot 7-85. Radiated Spurious Data (PCS WCDMA Mode)

OPERATING FREQUENCY: 1852.40 MHz
 CHANNEL: 9262
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3704.80	H	-	-	-69.65	7.09	-62.55	-49.6
5557.20	H	-	-	-70.39	10.07	-60.32	-47.3
7409.60	H	-	-	-68.29	11.60	-56.69	-43.7

Table 7-45. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9262)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device		Page 86 of 111

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 9400
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3760.00	H	-	-	-69.04	7.10	-61.94	-48.9
5640.00	H	-	-	-69.24	10.04	-59.19	-46.2
7520.00	H	-	-	-68.34	11.68	-56.66	-43.7

Table 7-46. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9400)

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 9400
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

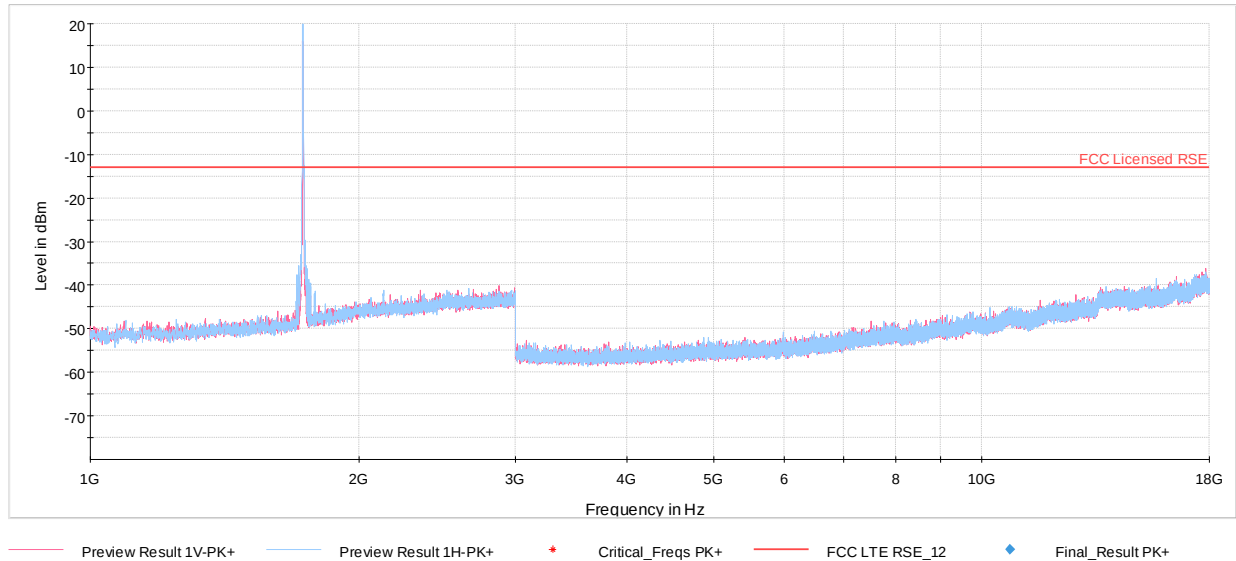
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3760.00	H	-	-	-69.04	7.10	-61.94	-48.9
5640.00	H	-	-	-69.24	10.04	-59.19	-46.2
7520.00	H	-	-	-68.34	11.68	-56.66	-43.7

Table 7-47. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9538)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 87 of 111

7.7.5 ANT 4a (Port C) Radiated Spurious Emissions Measurements

AWS WCDMA Mode



Plot 7-86. Radiated Spurious Data (AWS WCDMA Mode)

OPERATING FREQUENCY: 1712.40 MHz
 CHANNEL: 1312
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3424.80	H	-	-	-70.12	7.53	-62.58	-49.6
5137.20	H	-	-	-70.74	9.79	-60.95	-47.9
6849.60	H	-	-	-68.38	10.96	-57.42	-44.4

Table 7-48. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1312)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 88 of 111

OPERATING FREQUENCY: 1732.60 MHz
 CHANNEL: 1413
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3465.20	H	-	-	-69.97	7.62	-62.34	-49.3
5197.80	H	-	-	-70.05	9.75	-60.30	-47.3
6930.40	H	-	-	-68.66	11.05	-57.61	-44.6

Table 7-49. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1413)

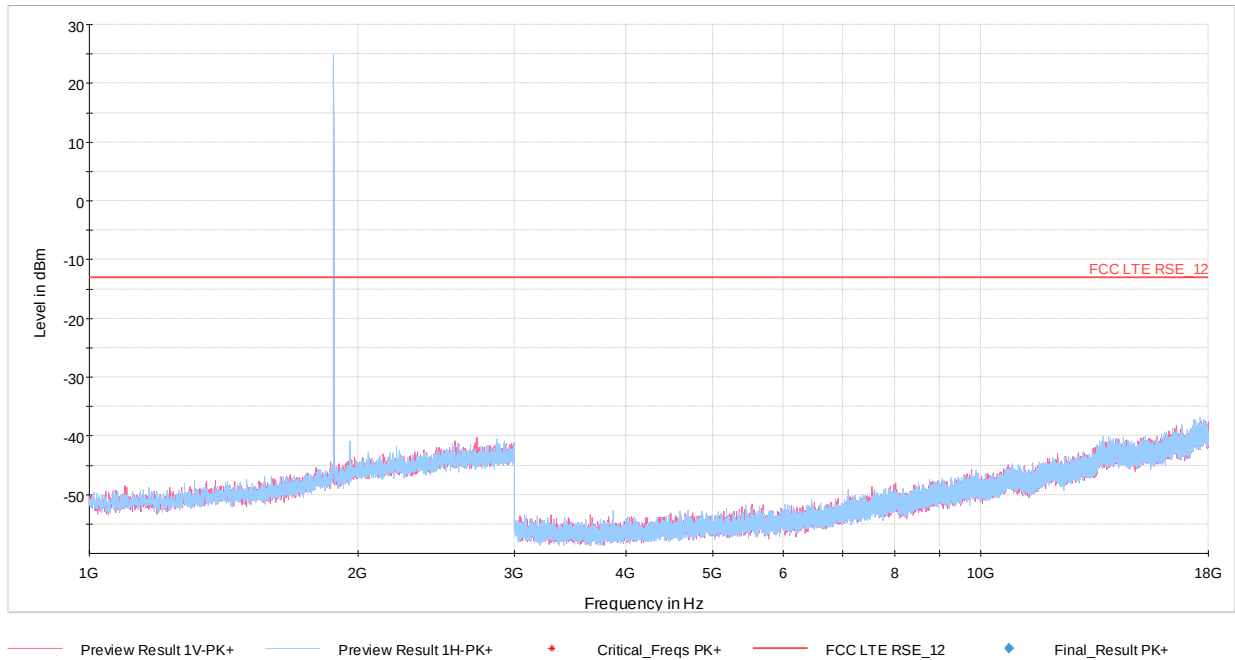
OPERATING FREQUENCY: 1752.60 MHz
 CHANNEL: 1513
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3505.20	H	-	-	-70.18	7.68	-62.50	-49.5
5257.80	H	-	-	-69.98	9.74	-60.24	-47.2
7010.40	H	-	-	-68.63	11.08	-57.54	-44.5

Table 7-50. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1513)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 89 of 111

PCS GPRS Mode



Plot 7-87. Radiated Spurious Data (PCS GPRS Mode)

OPERATING FREQUENCY: 1850.20 MHz
 CHANNEL: 512
 MODULATION SIGNAL: GPRS (GMSK)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3700.40	H	-	-	-62.37	7.10	-55.28	-42.3
5550.60	H	-	-	-60.67	10.07	-50.60	-37.6
7400.80	H	-	-	-57.80	11.59	-46.21	-33.2

Table 7-51. Radiated Spurious Data (PCS GPRS Mode – Ch. 512)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device		Page 90 of 111

OPERATING FREQUENCY: 1880.00 MHz
 CHANNEL: 661
 MODULATION SIGNAL: GPRS (GMSK)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3760.00	H	-	-	-61.74	7.10	-54.64	-41.6
5640.00	H	-	-	-60.95	10.04	-50.91	-37.9
7520.00	H	-	-	-58.64	11.68	-46.96	-34.0

Table 7-52. Radiated Spurious Data (PCS GPRS Mode – Ch. 661)

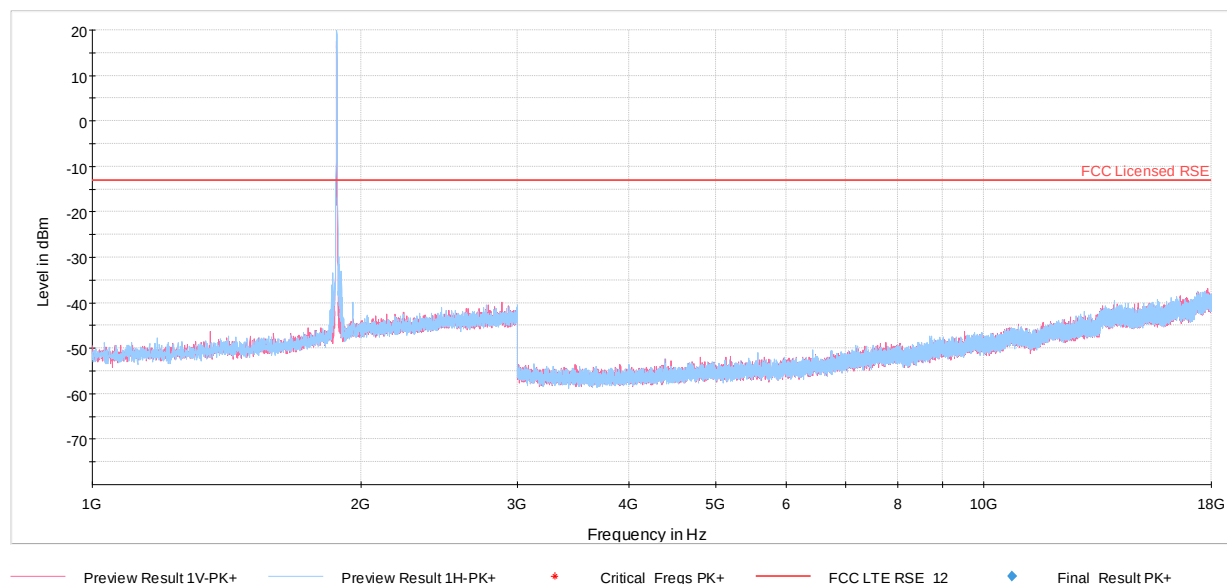
OPERATING FREQUENCY: 1909.80 MHz
 CHANNEL: 810.00
 MODULATION SIGNAL: GPRS (GMSK)
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3819.60	H	-	-	-61.36	7.31	-54.05	-41.1
5729.40	H	-	-	-60.56	10.05	-50.51	-37.5
7639.20	H	-	-	-58.69	11.75	-46.94	-33.9

Table 7-53. Radiated Spurious Data (PCS GPRS Mode – Ch. 810)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 91 of 111

PCS WCDMA Mode



Plot 7-88. Radiated Spurious Data (PCS WCDMA Mode)

OPERATING FREQUENCY: 1852.40 MHz
 CHANNEL: 9262
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3704.80	H	-	-	-69.58	7.09	-62.48	-49.5
5557.20	H	-	-	-70.48	10.07	-60.41	-47.4
7409.60	H	-	-	-68.30	11.60	-56.70	-43.7

Table 7-54. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9262)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device		Page 92 of 111

OPERATING FREQUENCY: 1880.00 MHz
CHANNEL: 9400
MODULATION SIGNAL: WCDMA
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3760.00	H	-	-	-69.22	7.10	-62.12	-49.1
5640.00	H	-	-	-69.61	10.04	-59.56	-46.6
7520.00	H	-	-	-68.42	11.68	-56.74	-43.7

Table 7-55. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9400)

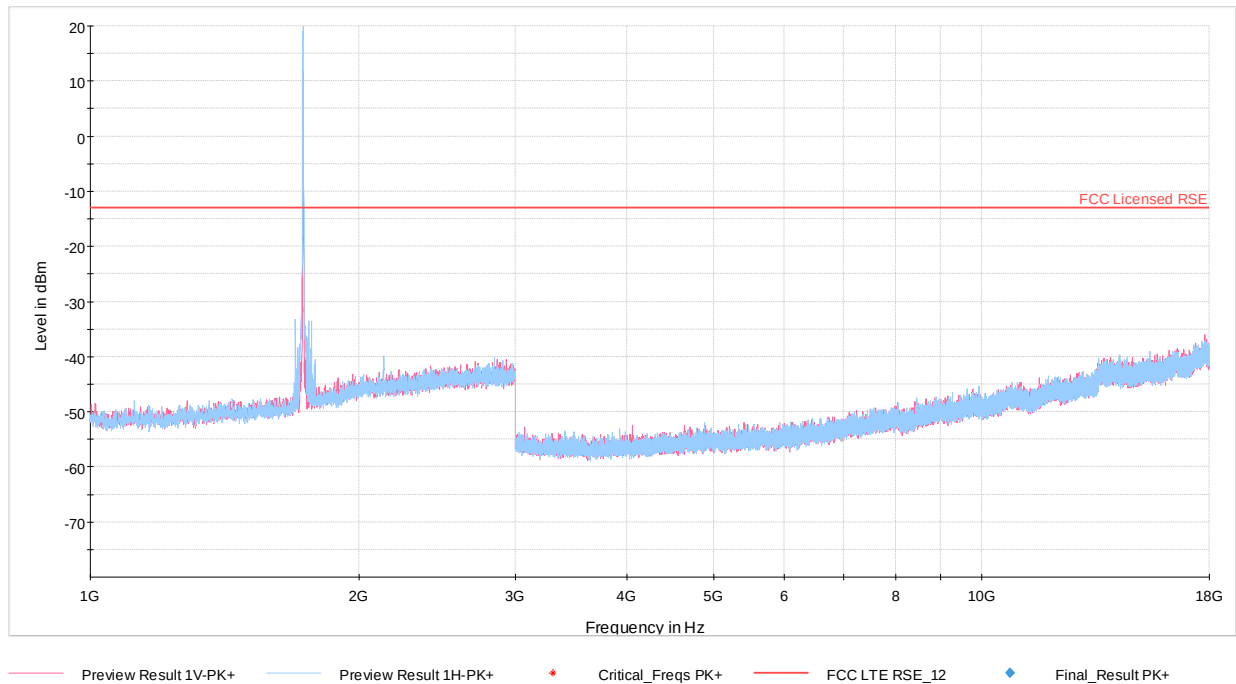
OPERATING FREQUENCY: 1907.60 MHz
CHANNEL: 9538
MODULATION SIGNAL: WCDMA
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3815.20	H	-	-	-69.26	7.29	-61.98	-49.0
5722.80	H	-	-	-69.93	10.05	-59.88	-46.9
7630.40	H	-	-	-68.34	11.75	-56.59	-43.6

Table 7-56. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9538)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 93 of 111

7.7.6 ANT 2a (Port D) Radiated Spurious Emissions Measurements AWS WCDMA Mode



Plot 7-89. Radiated Spurious Data (AWS WCDMA Mode)

OPERATING FREQUENCY: 1712.40 MHz
 CHANNEL: 1312
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3424.80	H	-	-	-70.10	7.53	-62.56	-49.6
5137.20	H	-	-	-70.80	9.79	-61.01	-48.0
6849.60	H	-	-	-68.63	10.96	-57.67	-44.7

Table 7-57. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1312)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device		Page 94 of 111

OPERATING FREQUENCY: 1732.60 MHz
CHANNEL: 1413
MODULATION SIGNAL: WCDMA
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3465.20	H	-	-	-70.06	7.62	-62.43	-49.4
5197.80	H	-	-	-70.17	9.75	-60.42	-47.4
6930.40	H	-	-	-68.90	11.05	-57.85	-44.9

Table 7-58. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1413)

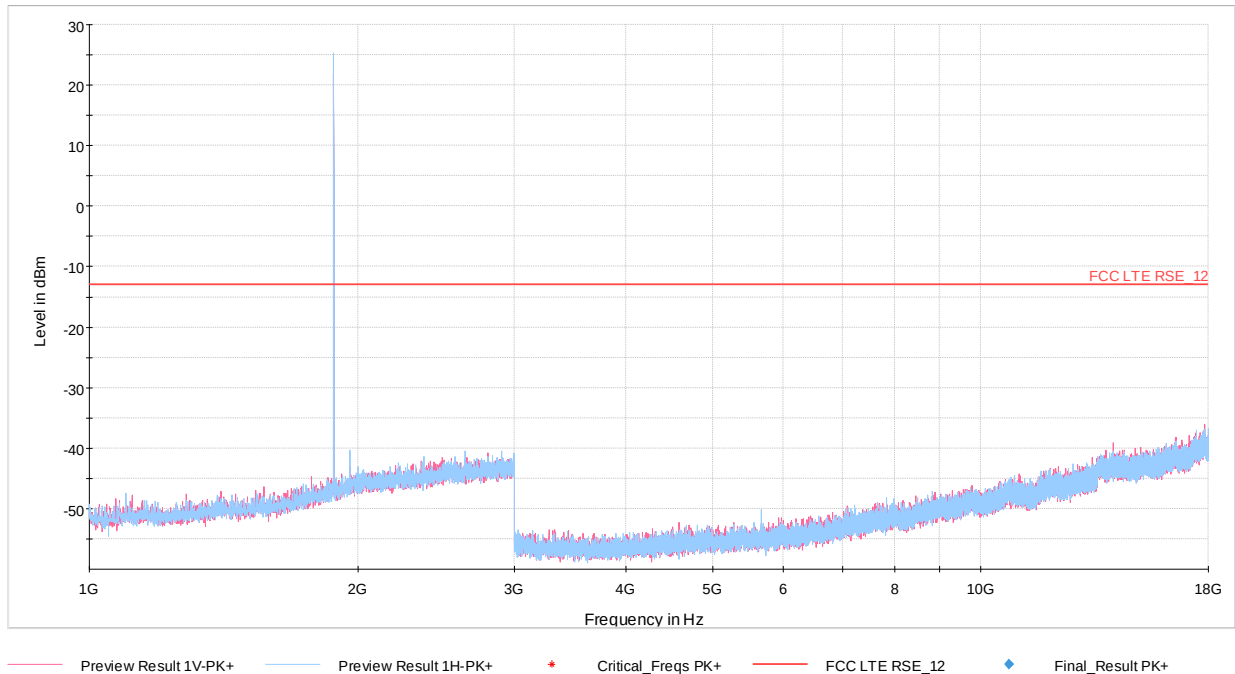
OPERATING FREQUENCY: 1752.60 MHz
CHANNEL: 1513
MODULATION SIGNAL: WCDMA
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3505.20	H	-	-	-70.18	7.68	-62.50	-49.5
5257.80	H	-	-	-69.86	9.74	-60.12	-47.1
7010.40	H	-	-	-68.94	11.08	-57.85	-44.9

Table 7-59. Radiated Spurious Data (AWS WCDMA Mode – Ch. 1513)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 95 of 111

PCS GPRS Mode



Plot 7-90. Radiated Spurious Data (PCS GPRS Mode)

OPERATING FREQUENCY: 1850.20 MHz
CHANNEL: 512
MODULATION SIGNAL: GPRS (GMSK)
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3700.40	H	-	-	-62.44	7.10	-55.34	-42.3
5550.60	H	126	348	-58.85	10.07	-48.78	-35.8
7400.80	H	-	-	-58.60	11.59	-47.01	-34.0

Table 7-60. Radiated Spurious Data (PCS GPRS Mode – Ch. 512)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device		Page 96 of 111

OPERATING FREQUENCY: 1880.00 MHz
CHANNEL: 661.00
MODULATION SIGNAL: GPRS (GMSK)
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3760.00	H	-	-	-61.71	7.10	-54.61	-41.6
5640.00	H	120	342	-59.13	10.04	-49.09	-36.1
7520.00	H	-	-	-58.89	11.68	-47.21	-34.2

Table 7-61. Radiated Spurious Data (PCS GPRS Mode – Ch. 661)

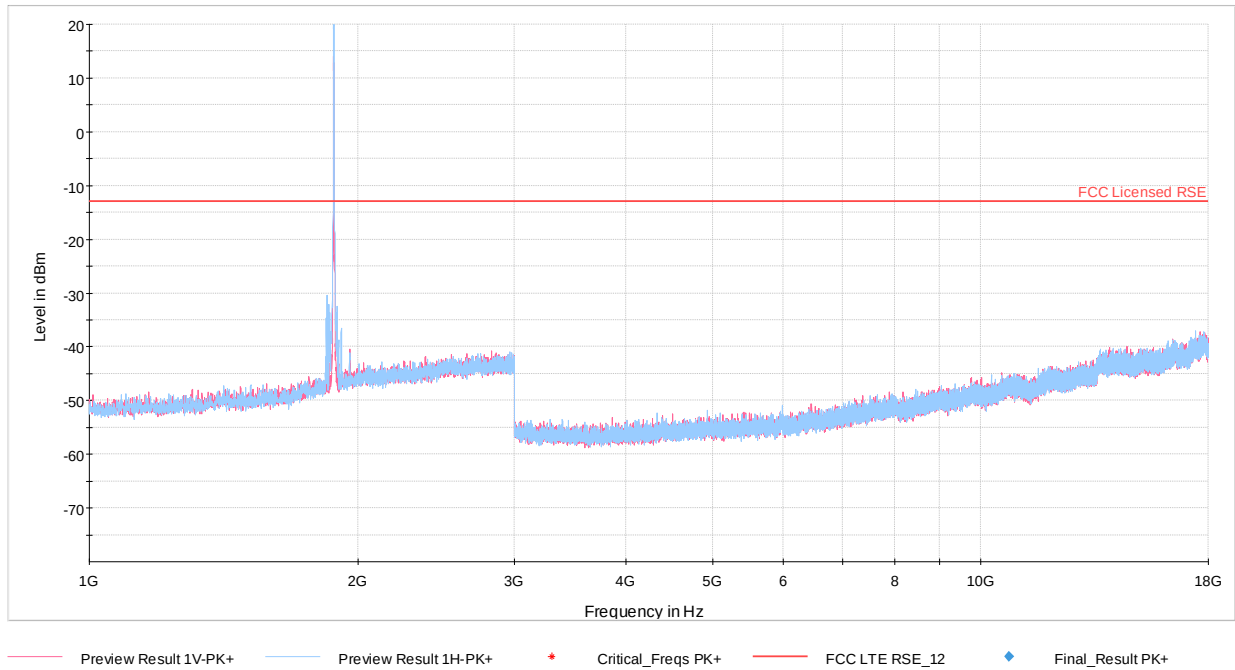
OPERATING FREQUENCY: 1909.80 MHz
CHANNEL: 810.00
MODULATION SIGNAL: GPRS (GMSK)
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3819.60	H	-	-	-62.00	7.31	-54.69	-41.7
5729.40	H	105	343	-59.95	10.05	-49.90	-36.9
7639.20	H	-	-	-59.05	11.75	-47.30	-34.3

Table 7-62. Radiated Spurious Data (PCS GPRS Mode – Ch. 810)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 97 of 111

PCS WCDMA Mode



Plot 7-91. Radiated Spurious Data (PCS WCDMA Mode)

OPERATING FREQUENCY: 1852.40 MHz
 CHANNEL: 9262
 MODULATION SIGNAL: WCDMA
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3704.80	H	-	-	-69.67	7.09	-62.57	-49.6
5557.20	H	-	-	-70.53	10.07	-60.46	-47.5
7409.60	H	-	-	-68.22	11.60	-56.62	-43.6

Table 7-63. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9262)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device		Page 98 of 111

OPERATING FREQUENCY: 1880.00 MHz
CHANNEL: 9400
MODULATION SIGNAL: WCDMA
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3760.00	H	-	-	-68.84	7.10	-61.74	-48.7
5640.00	H	-	-	-69.74	10.04	-59.69	-46.7
7520.00	H	-	-	-68.56	11.68	-56.88	-43.9

Table 7-64. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9400)

OPERATING FREQUENCY: 1907.60 MHz
CHANNEL: 9538
MODULATION SIGNAL: WCDMA
DISTANCE: 3 meters
LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3815.20	H	-	-	-69.03	7.29	-61.75	-48.7
5722.80	H	-	-	-69.92	10.05	-59.87	-46.9
7630.40	H	-	-	-68.48	11.75	-56.73	-43.7

Table 7-65. Radiated Spurious Data (PCS WCDMA Mode – Ch. 9538)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1C1806050011-02-R1.BCG	Test Dates: 07/26/2018 - 10/12/2018	EUT Type: Tablet Device	Page 99 of 111

7.8 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.

For Part 22, RSS-132, and RSS-133, the frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ (± 2.5 ppm) of the center frequency. For Part 24, Part 27, and RSS-139, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

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

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

OPERATING FREQUENCY: 836,600,000 Hz

CHANNEL: 190

REFERENCE VOLTAGE: 3.80 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,600,003	3	0.0000003
100 %		- 20	836,600,004	4	0.0000005
100 %		- 10	836,600,002	2	0.0000003
100 %		0	836,600,003	3	0.0000004
100 %		+ 10	836,600,004	4	0.0000005
100 %		+ 20	836,600,004	4	0.0000004
100 %		+ 30	836,600,005	5	0.0000005
100 %		+ 40	836,600,004	4	0.0000004
100 %		+ 50	836,600,004	4	0.0000004
BATT. ENDPOINT	3.40	+ 20	836,600,004	4	0.0000004

Table 7-66. Frequency Stability Data (Cellular GPRS Mode – Ch. 190)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

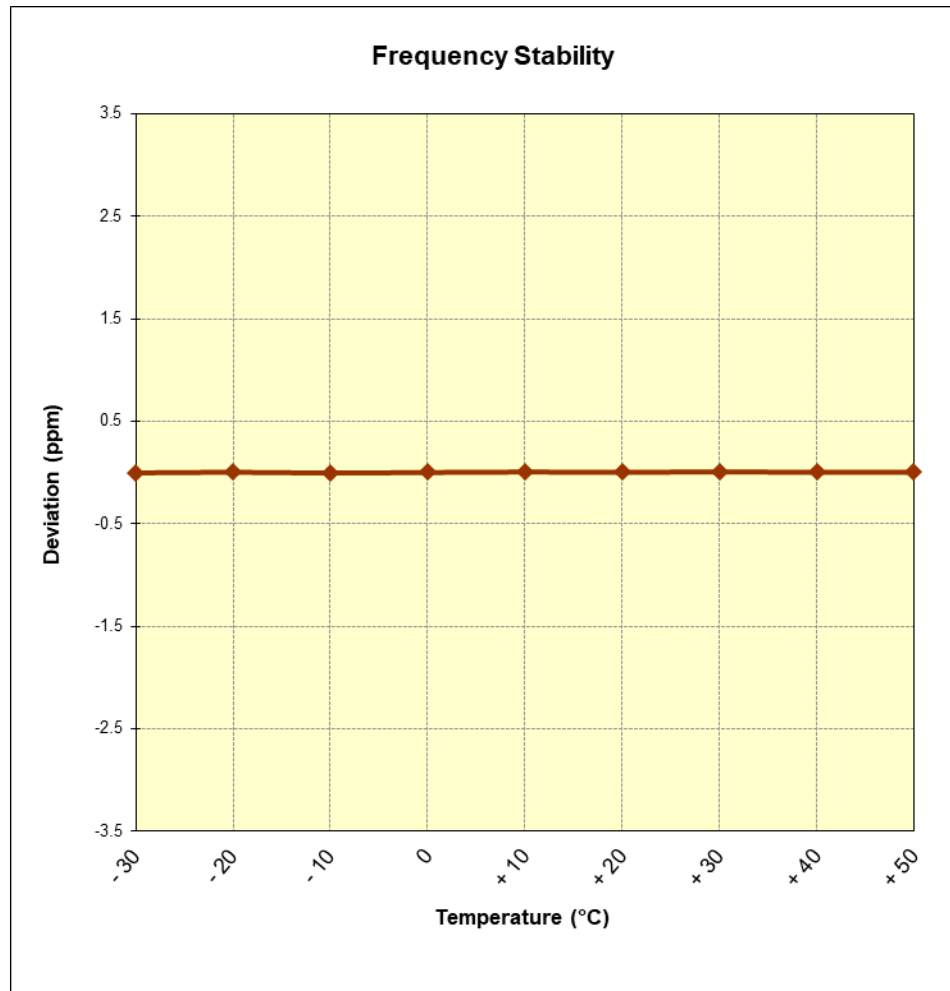


Figure 7-7. Frequency Stability Graph (Cellular GPRS Mode – Ch. 190)

FCC ID: BCGA2014	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

OPERATING FREQUENCY:	836,600,000	Hz
CHANNEL:	4183	
REFERENCE VOLTAGE:	3.80	VDC
DEVIATION LIMIT:	± 0.00025 % or 2.5 ppm	

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	836,600,003	3	0.0000003
100 %		- 20	836,600,004	4	0.0000005
100 %		- 10	836,600,002	2	0.0000003
100 %		0	836,600,003	3	0.0000004
100 %		+ 10	836,600,004	4	0.0000005
100 %		+ 20	836,600,004	4	0.0000004
100 %		+ 30	836,600,005	5	0.0000005
100 %		+ 40	836,600,004	4	0.0000004
100 %		+ 50	836,600,004	4	0.0000004
BATT. ENDPOINT	3.40	+ 20	836,600,004	4	0.0000004

Table 7-67. Frequency Stability Data (Cellular WCDMA Mode – Ch. 4183)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

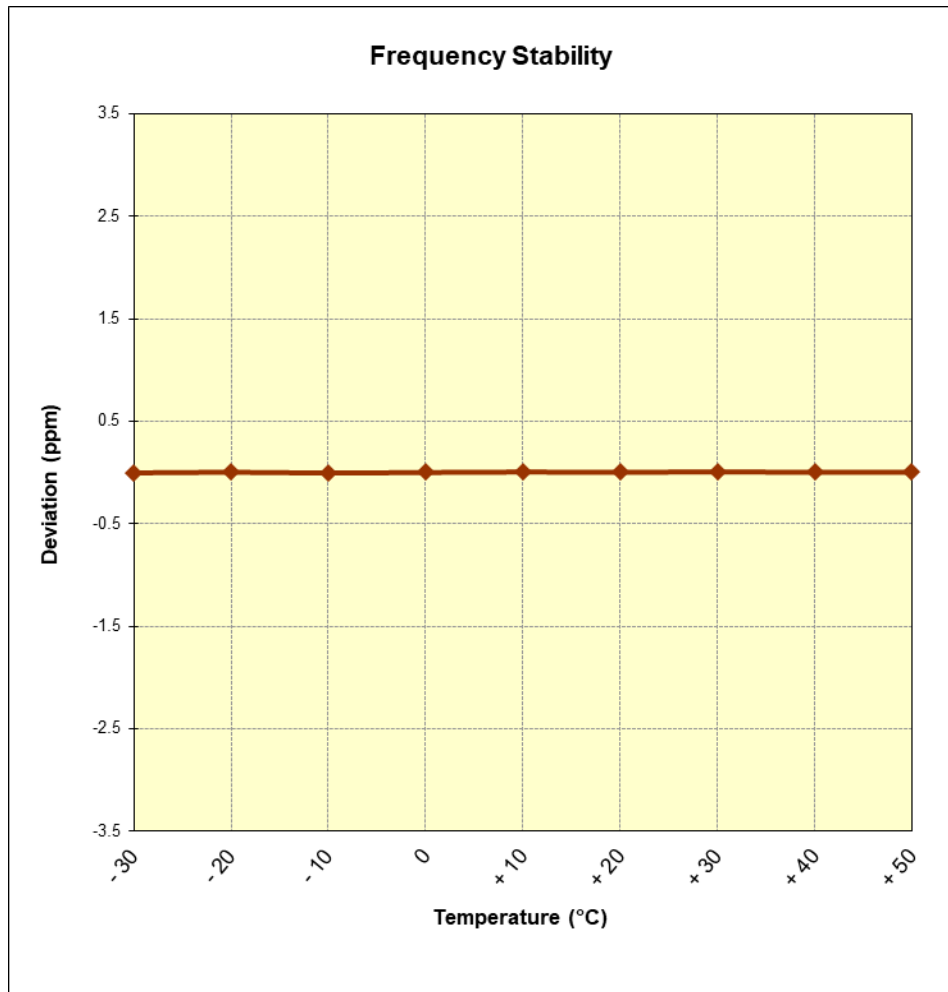


Figure 7-8. Frequency Stability Graph (Cellular WCDMA Mode – Ch. 4183)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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Frequency Stability / Temperature Variation

OPERATING FREQUENCY: 1,732,600,000 Hz
CHANNEL: 1413
REFERENCE VOLTAGE: 3.80 VDC

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,732,600,007	7	0.0000004
100 %		- 20	1,732,600,008	8	0.0000005
100 %		- 10	1,732,600,008	8	0.0000005
100 %		0	1,732,600,007	7	0.0000004
100 %		+ 10	1,732,600,008	8	0.0000004
100 %		+ 20	1,732,600,007	7	0.0000004
100 %		+ 30	1,732,600,009	9	0.0000005
100 %		+ 40	1,732,600,009	9	0.0000005
100 %		+ 50	1,732,600,009	9	0.0000005
BATT. ENDPOINT	3.40	+ 20	1,732,600,006	6	0.0000003

Table 7-68. Frequency Stability Data (AWS WCDMA Mode – Ch. 1413)

Note:

Based on the results of the frequency stability test at the center channel the frequency deviation results measured are very small. As such it is determined that the channels at the band edge would remain in-band when the maximum measured frequency deviation noted during the frequency stability tests is applied. Therefore the device is determined to remain operating in band over the temperature and voltage range as tested.

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Frequency Stability / Temperature Variation

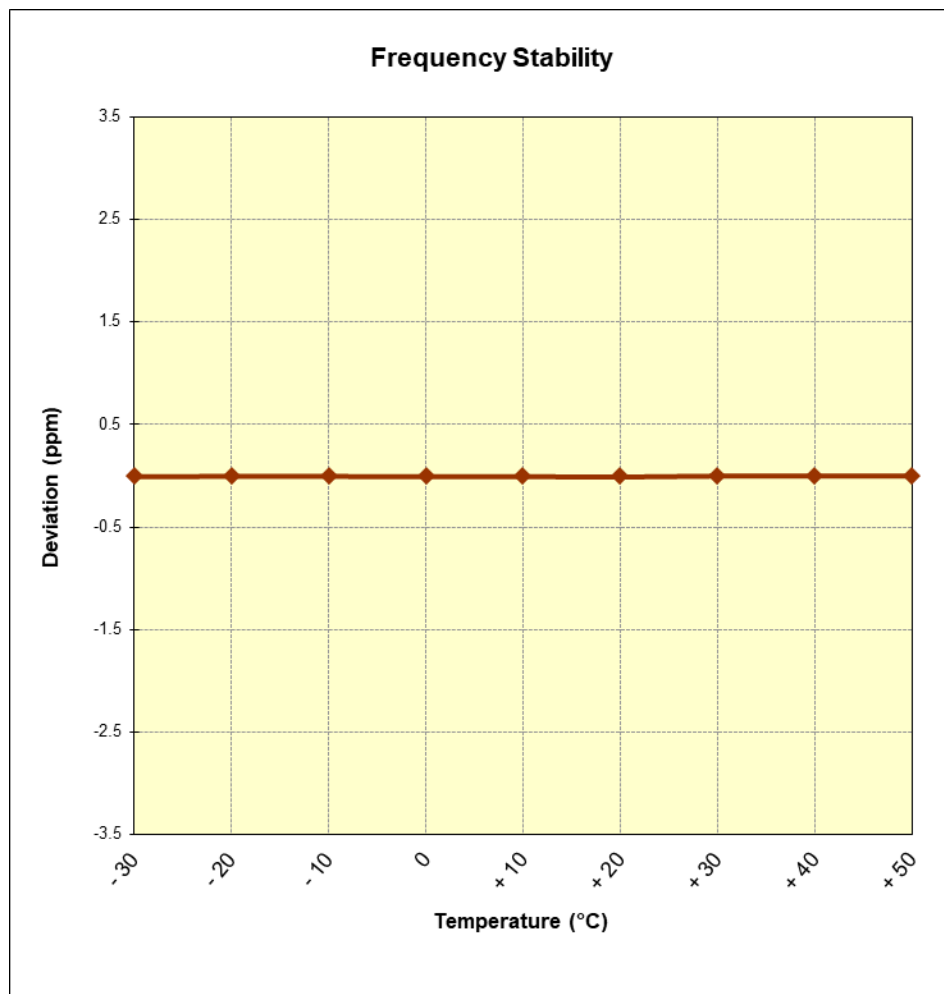


Figure 7-9. Frequency Stability Graph (AWS WCDMA Mode – Ch. 1413)

FCC ID: BCGA2014	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

OPERATING FREQUENCY: 1,880,000,000 Hz

CHANNEL: 661

REFERENCE VOLTAGE: 3.80 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,880,000,006	6	0.0000003
100 %		- 20	1,880,000,007	7	0.0000004
100 %		- 10	1,880,000,007	7	0.0000004
100 %		0	1,880,000,009	9	0.0000005
100 %		+ 10	1,880,000,007	7	0.0000004
100 %		+ 20	1,880,000,007	7	0.0000004
100 %		+ 30	1,880,000,006	6	0.0000003
100 %		+ 40	1,880,000,007	7	0.0000004
100 %		+ 50	1,880,000,008	8	0.0000004
BATT. ENDPOINT	3.40	+ 20	1,880,000,007	7	0.0000004

Table 7-69. Frequency Stability Data (PCS GPRS Mode – Ch. 661)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

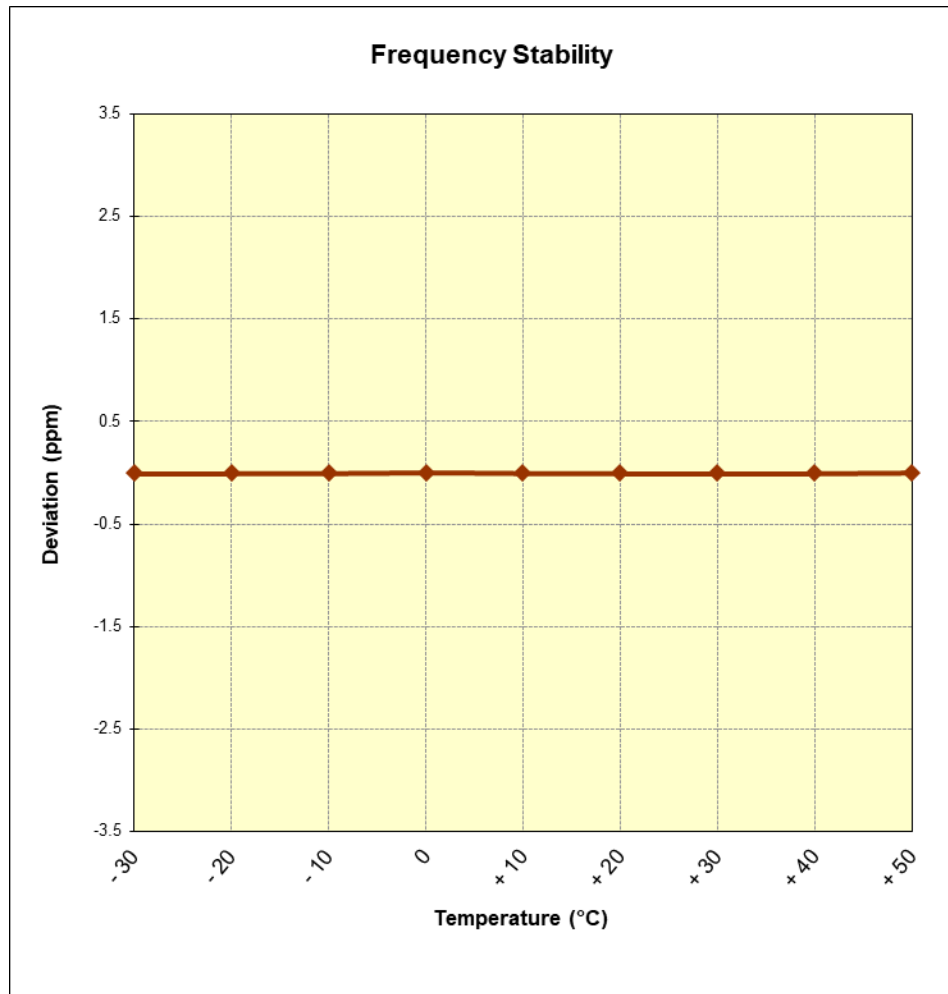


Figure 7-10. Frequency Stability Graph (PCS GPRS Mode – Ch. 661)

FCC ID: BCGA2014	MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

OPERATING FREQUENCY: 1,880,000,000 Hz

CHANNEL: 9400

REFERENCE VOLTAGE: 3.80 VDC

DEVIATION LIMIT: ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VDC)	TEMP (°C)	FREQUENCY (Hz)	Freq. Dev. (Hz)	Deviation (%)
100 %	3.80	- 30	1,880,000,006	6	0.0000003
100 %		- 20	1,880,000,007	7	0.0000004
100 %		- 10	1,880,000,007	7	0.0000004
100 %		0	1,880,000,009	9	0.0000005
100 %		+ 10	1,880,000,007	7	0.0000004
100 %		+ 20	1,880,000,007	7	0.0000004
100 %		+ 30	1,880,000,006	6	0.0000003
100 %		+ 40	1,880,000,007	7	0.0000004
100 %		+ 50	1,880,000,008	8	0.0000004
BATT. ENDPOINT	3.40	+ 20	1,880,000,007	7	0.0000004

Table 7-70. Frequency Stability Data (PCS WCDMA Mode – Ch. 9400)

FCC ID: BCGA2014	 MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
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Frequency Stability / Temperature Variation

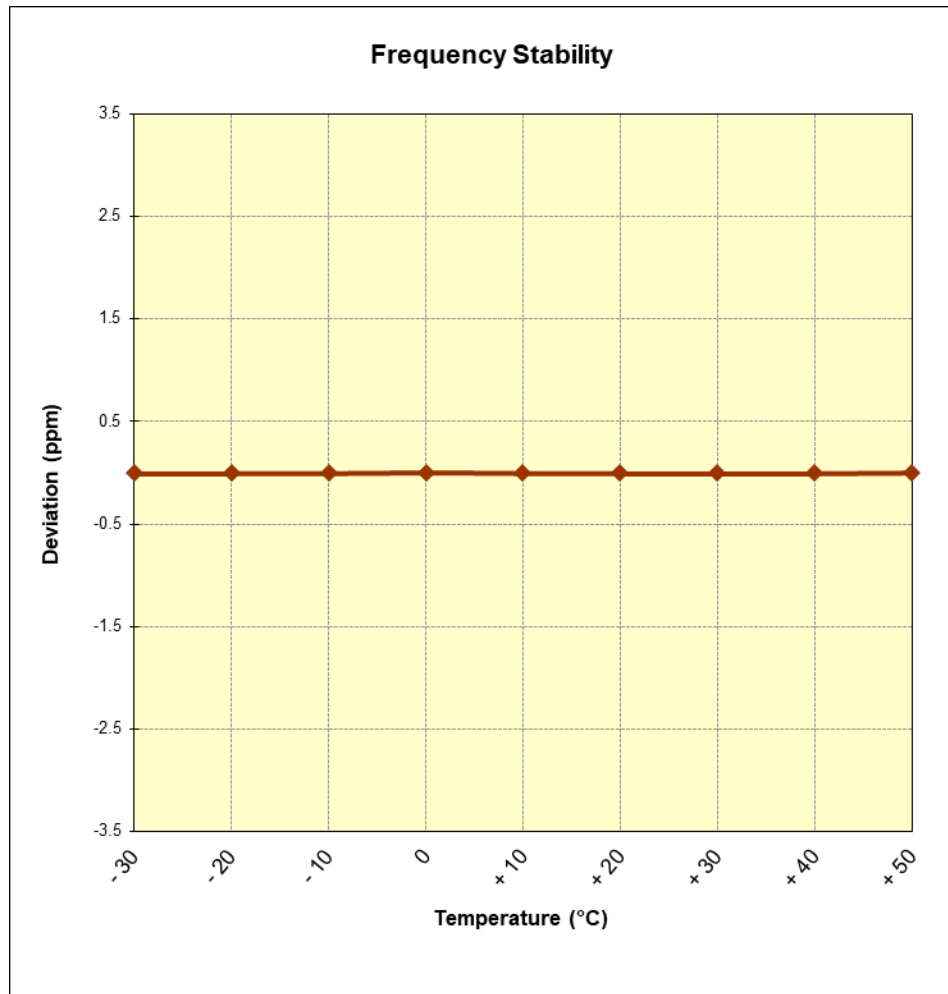


Figure 7-11. Frequency Stability Graph (PCS WCDMA Mode – Ch. 9400)

FCC ID: BCGA2014	PCTEST ENGINEERING LABORATORY, INC.	MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Apple Tablet Device FCC ID: BCGA2014** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules and RSS-132, RSS-133, RSS-139 of the Innovation, Science and Economic Development Canada Rules.

FCC ID: BCGA2014		MEASUREMENT REPORT (CERTIFICATION)	Approved by: Quality Manager
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