

6.7 Conducted Spurious Emissions

§15.247(d); RSS-210 [A8.5]

Test Overview and Limit

All out of band emissions are measured with a spectrum analyzer connected to the antenna terminal of the EUT while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies. All data rates were investigated to determine the worst case configuration. For the following out of band conducted spurious emissions plots, the EUT was investigated in all available data rates for “b”, “g”, “a”, and “n” modes. The worst case spurious emissions for the 2.4GHz band were found while transmitting in “b” mode at 1 Mbps and are shown in the plots below. The worst case spurious emissions for the 5.8GHz band were found while transmitting in “a” mode at 6 Mbps and are shown in the plots below.

The limit for out-of-band spurious emissions at the band edge is 30dB below the fundamental emission level, as determined from the in-band power measurement of the DTS channel performed in a 100kHz bandwidth per the procedure in Section 11.1 of KDB 558074 v03r01.

Test Procedure Used

KDB 558074 v03r01 – Section 11.3

Test Settings

1. Start frequency was set to 30MHz and stop frequency was set to 25GHz (separated into two plots per channel)
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = Peak
5. Trace mode = max hold
6. Sweep time = auto couple
7. The trace was allowed to stabilize

Test Setup

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

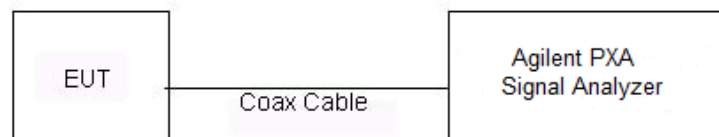


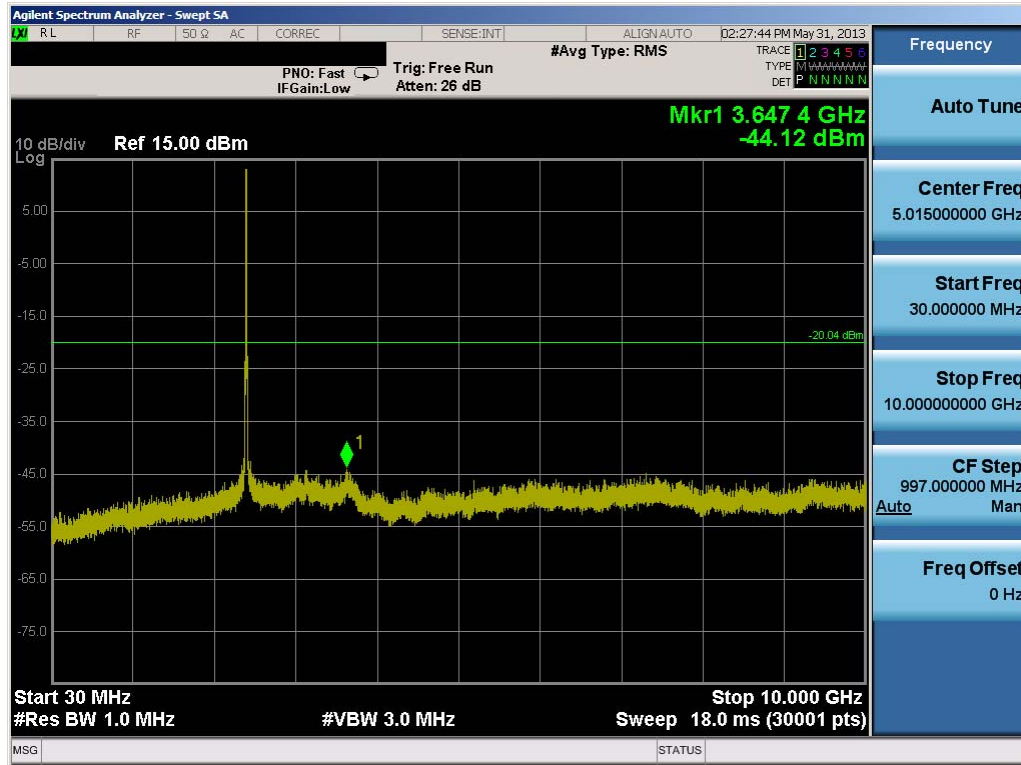
Figure 6-5. Test Instrument & Measurement Setup

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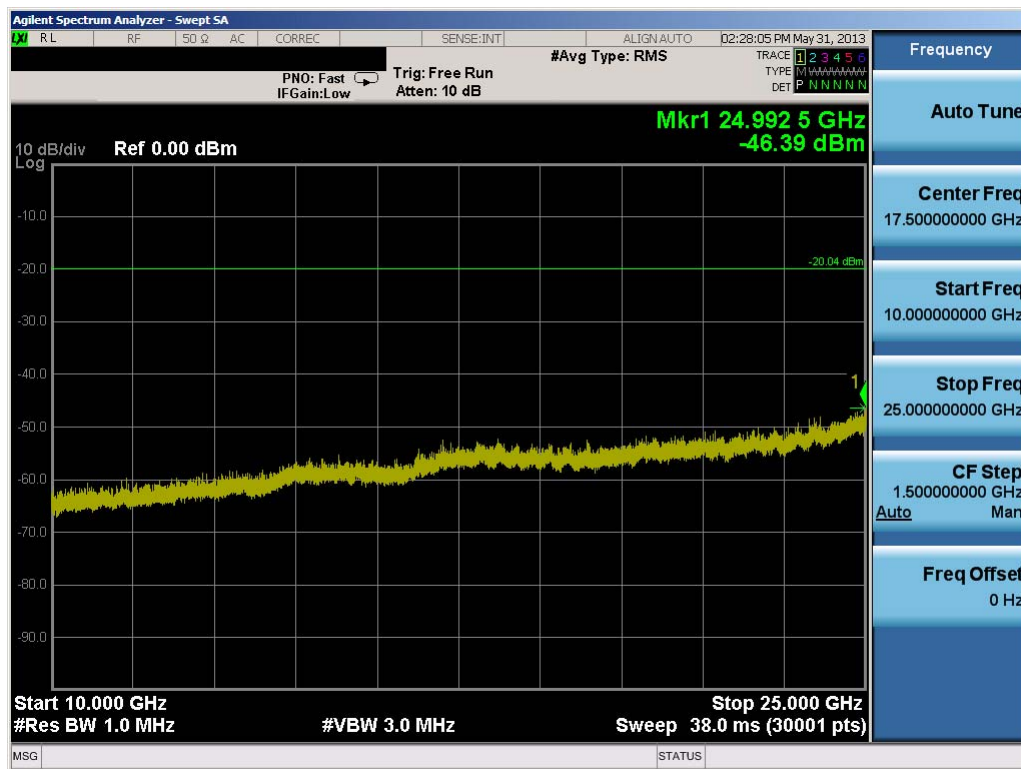
Test Notes

1. RBW was set to 1MHz rather than 100kHz in order to increase the measurement speed.
2. The display line shown in the following plots denotes the limit at 30dB below the fundamental emission level measured in a 100kHz bandwidth. However, since the traces in the following plots are measured with a 1MHz RBW, the display line may not necessarily appear to be 30dB below the level of the fundamental in a 1MHz bandwidth.
3. For plots showing conducted spurious emissions near the limit, the frequencies were investigated with a reduced RBW to ensure that no emissions were present.

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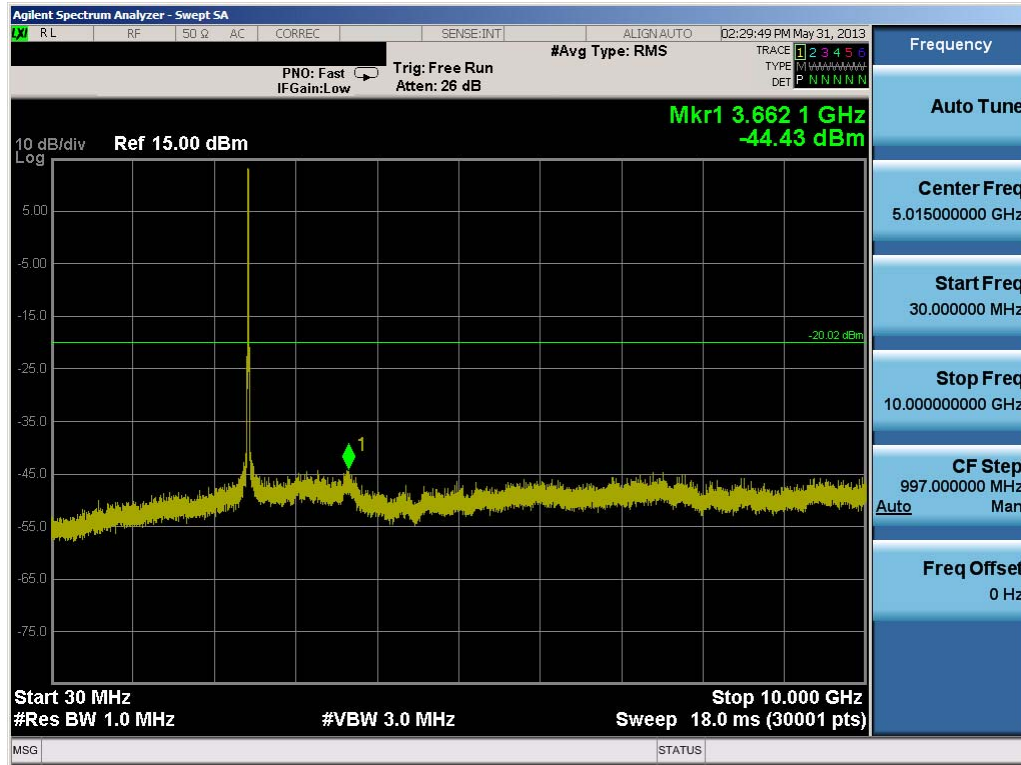


Plot 6-47. Conducted Spurious Plot (802.11b – Ch. 1)

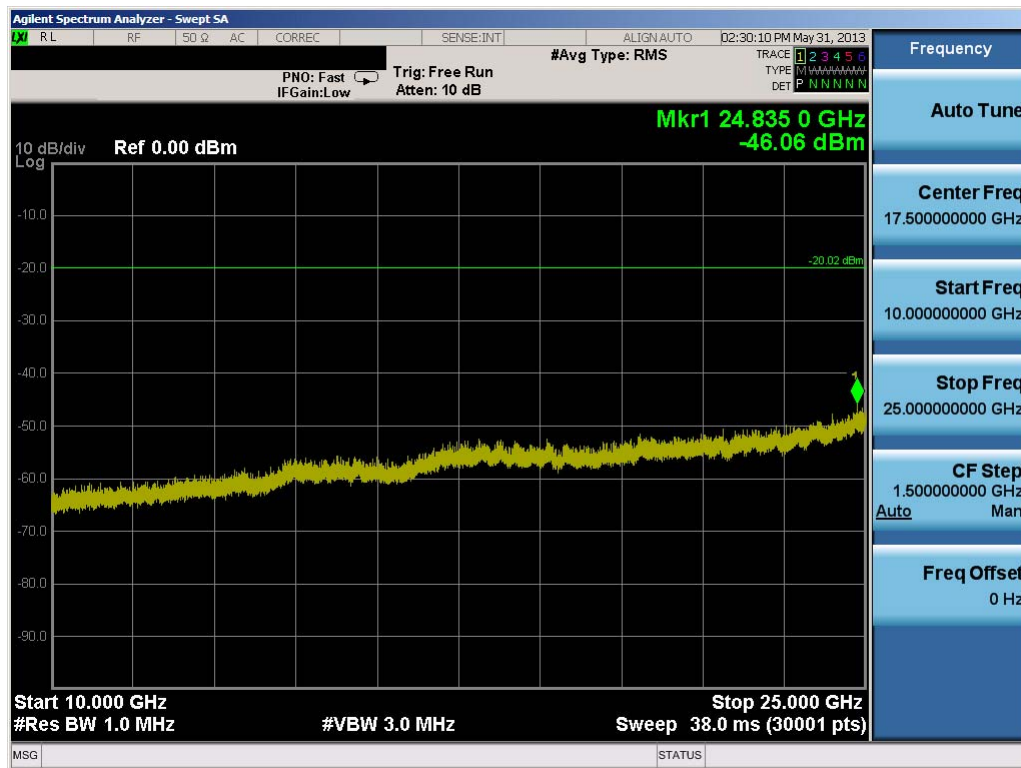


Plot 6-48. Conducted Spurious Plot (802.11b – Ch. 1)

FCC ID: A3LGT19158	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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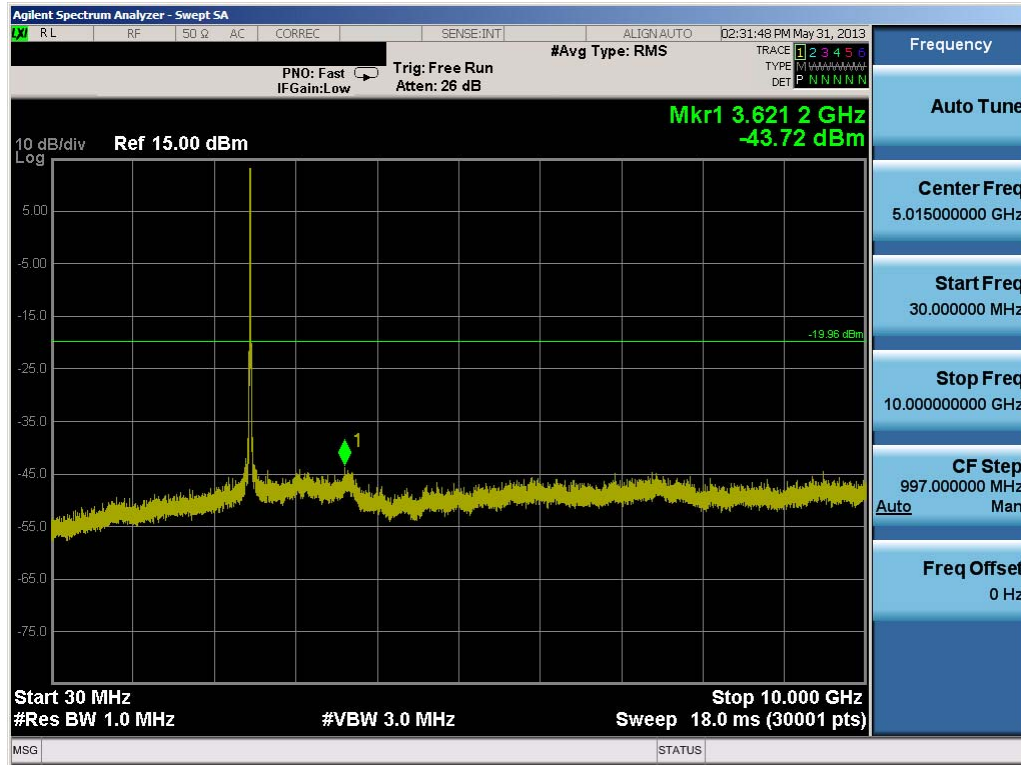


Plot 6-49. Conducted Spurious Plot (802.11b – Ch. 6)

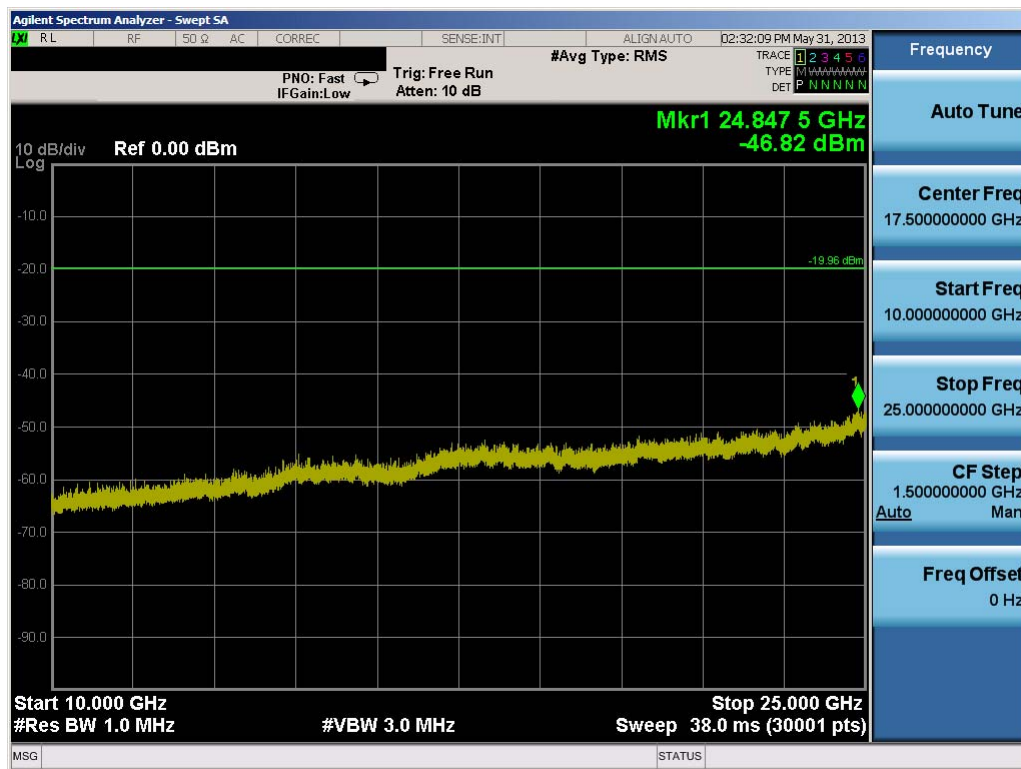


Plot 6-50. Conducted Spurious Plot (802.11b – Ch. 6)

FCC ID: A3LGT19158	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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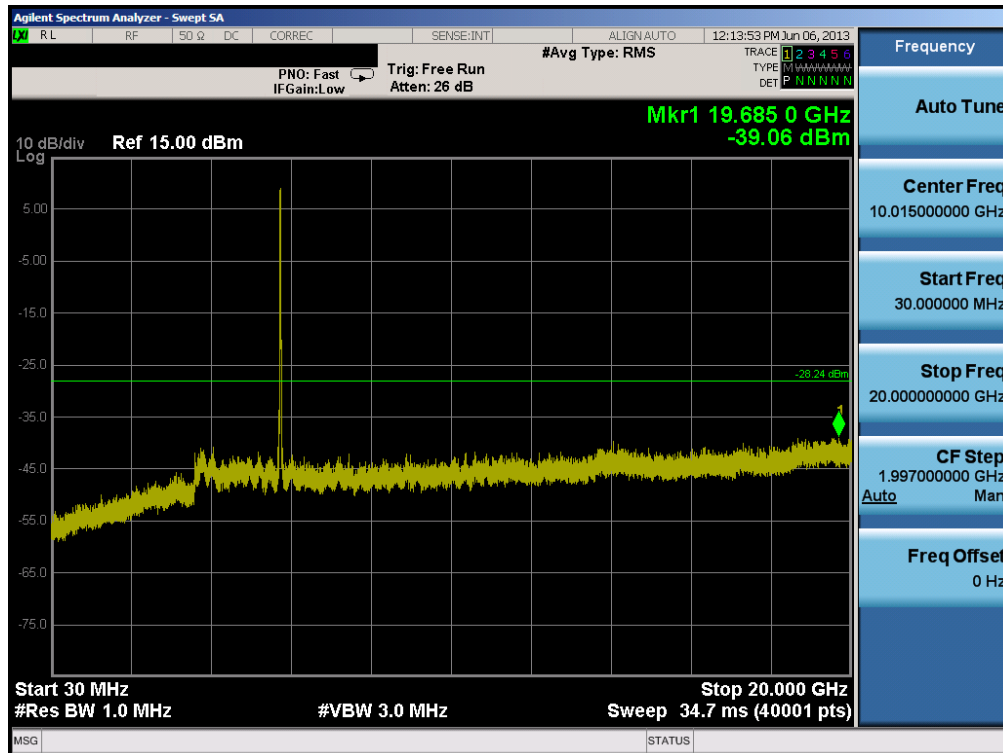


Plot 6-51. Conducted Spurious Plot (802.11b – Ch. 11)

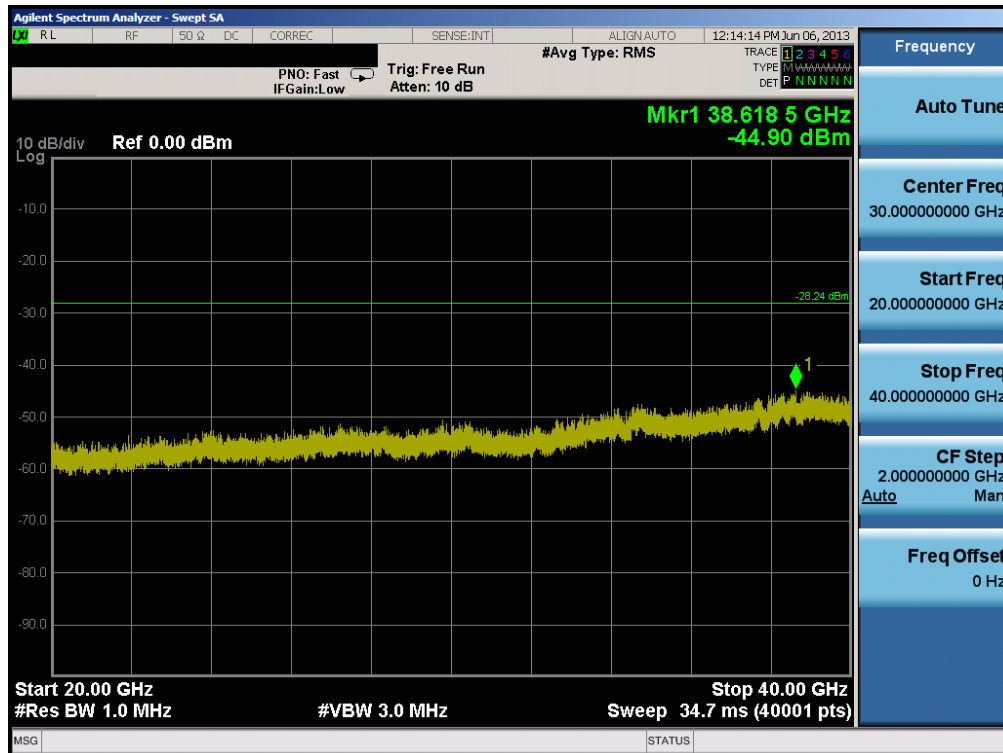


Plot 6-52. Conducted Spurious Plot (802.11b – Ch. 11)

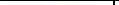
FCC ID: A3LGT19158	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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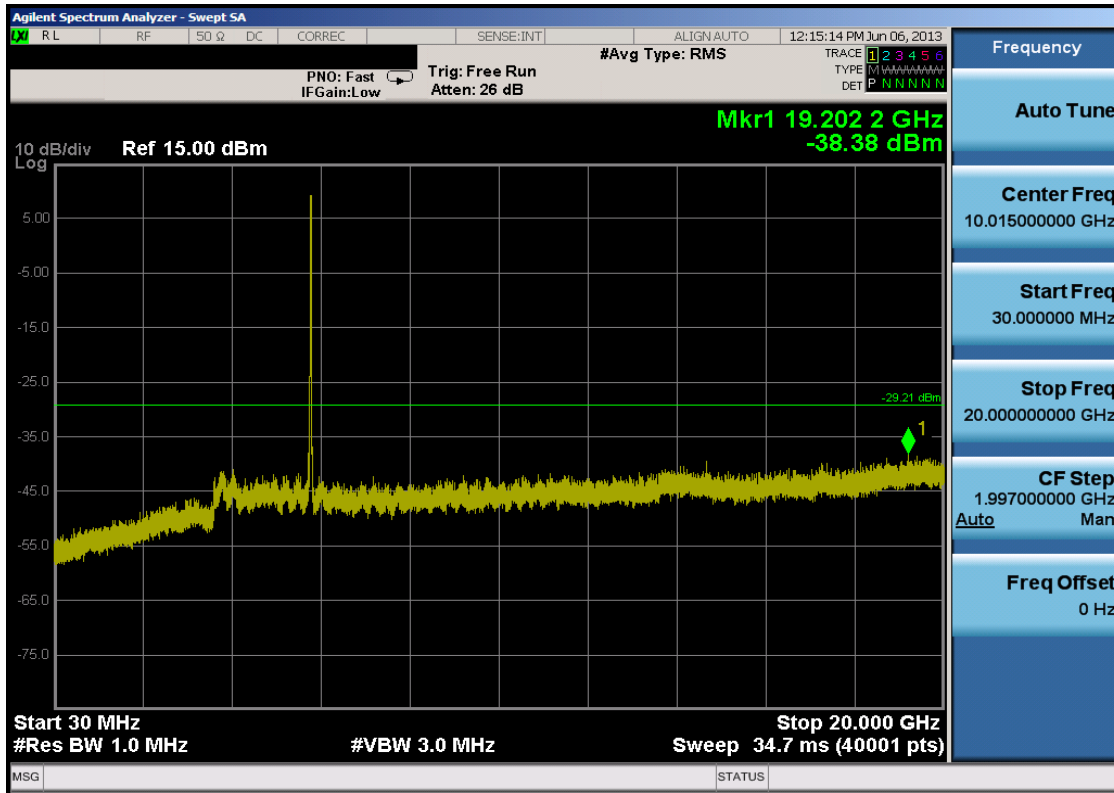


Plot 6-53. Conducted Spurious Plot (802.11a – Ch. 149)

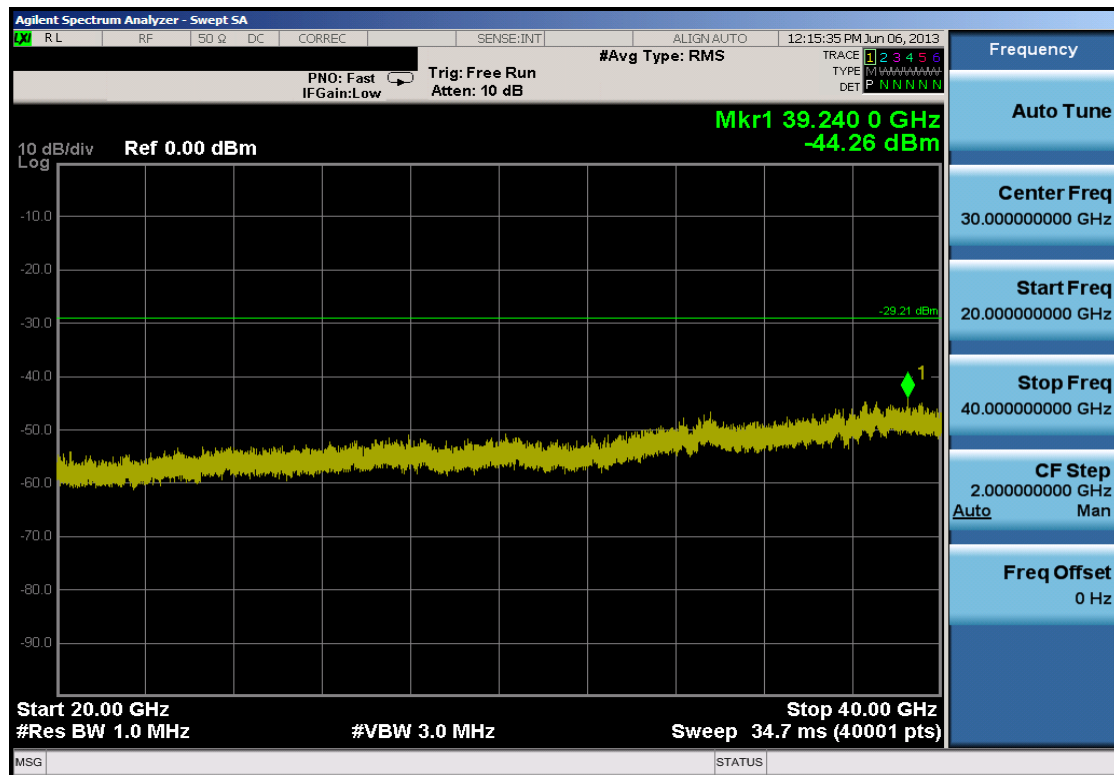


Plot 6-54. Conducted Spurious Plot (802.11a – Ch. 149)

FCC ID: A3LGTI9158	 FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION) 		Reviewed by: Quality Manager
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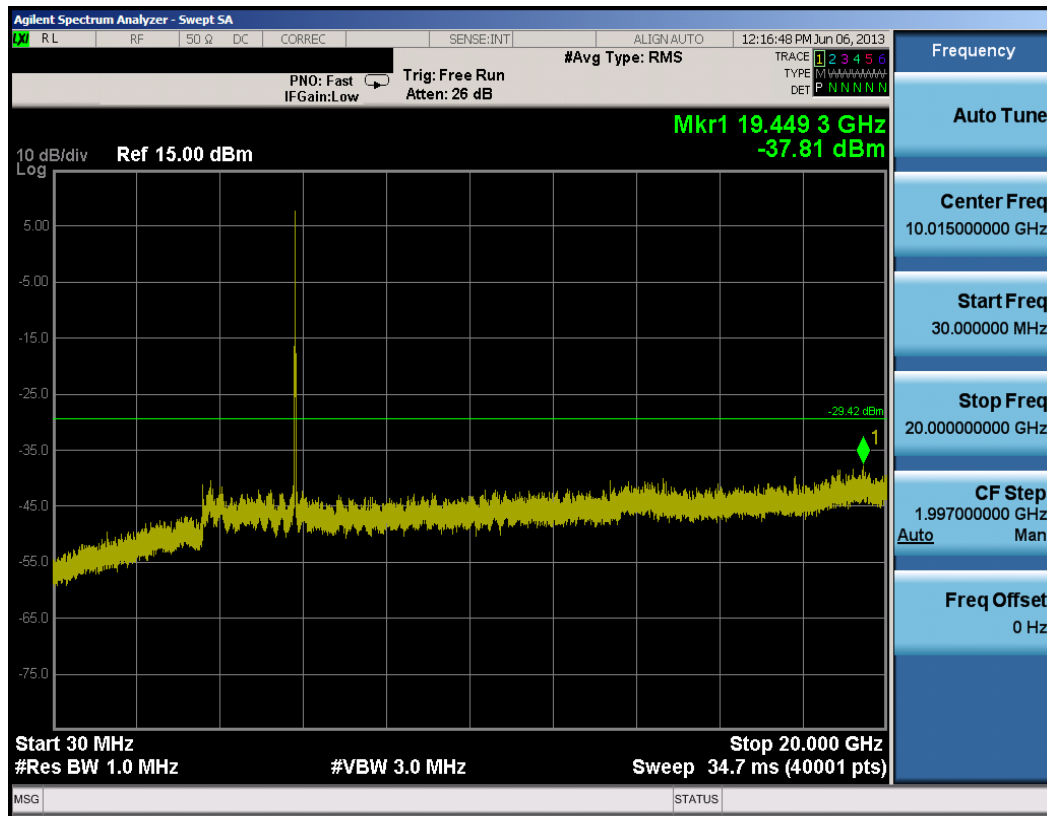


Plot 6-55. Conducted Spurious Plot (802.11a – Ch. 157)

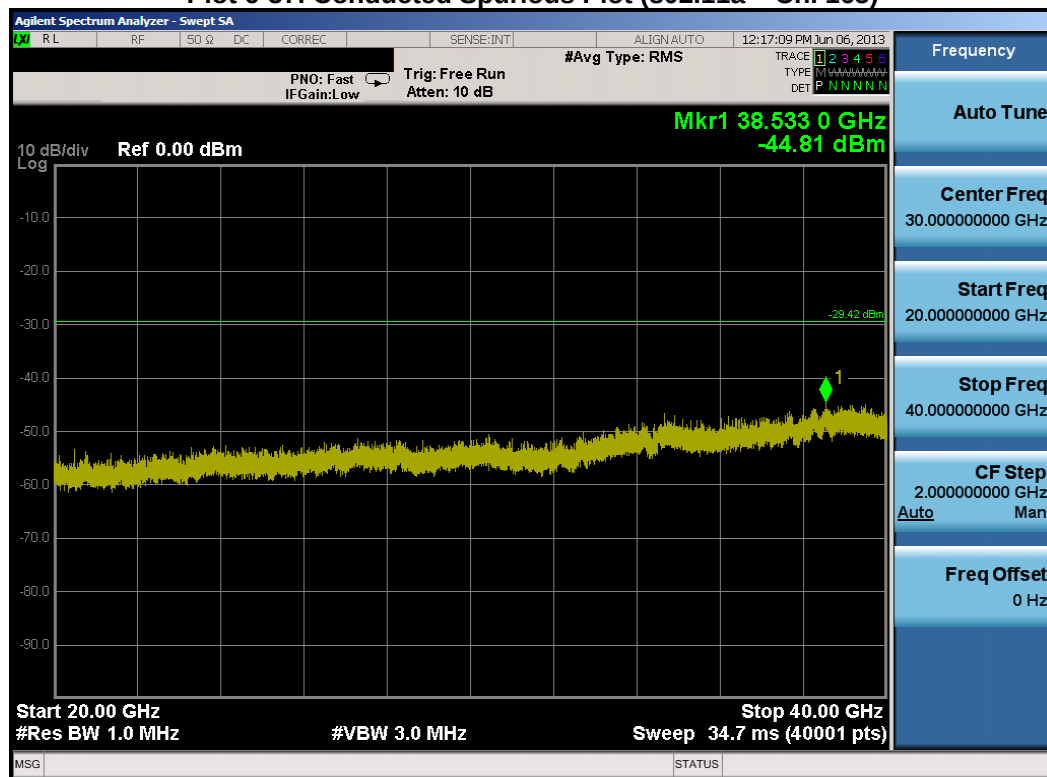


Plot 6-56. Conducted Spurious Plot (802.11a – Ch. 157)

FCC ID: A3LGT19158	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
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Plot 6-57. Conducted Spurious Plot (802.11a – Ch. 165)



Plot 6-58. Conducted Spurious Plot (802.11a – Ch. 165)

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Test Report S/N: 0Y1305240899.A3L	Test Dates: May 29 - June 07, 2013	EUT Type: Portable Handset		Page 50 of 63

6.8 Radiated Spurious Emission Measurements

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

Test Overview and Limit

All out of band radiated spurious emissions are measured with a spectrum analyzer connected to a receive antenna while the EUT is operating at its maximum duty cycle (>98%), at maximum power, and at the appropriate frequencies. All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table 6-10 per Section 15.209.

Frequency	Field Strength [μV/m]	Measured Distance [Meters]
0.009 – 0.490 MHz	2400/F (kHz)	300
0.490 – 1.705 MHz	24000/F (kHz)	30
1.705 – 30.00 MHz	30	30
30.00 – 88.00 MHz	100	3
88.00 – 216.0 MHz	150	3
216.0 – 960.0 MHz	200	3
Above 960.0 MHz	500	3

Table 6-10. Radiated Limits

Test Procedures Used

KDB 558074 v03r01 – Section 12.2.5 (average power measurements)

KDB 558074 v03r01 – Section 12.2.4 (peak power measurements)

Test Settings

Average Field Strength Measurements per Section 12.2.5.1 of KDB 558074 v03r01

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = power average (RMS)
5. Number of measurement points = 1001 (Number of points must be $\geq 2 \times \text{span/RBW}$)
6. Sweep time = auto
7. Trace (RMS) averaging was performed over at least 100 traces

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Peak Field Strength Measurements per Section 12.2.4 of KDB 558074 v03r01

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Test Setup

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

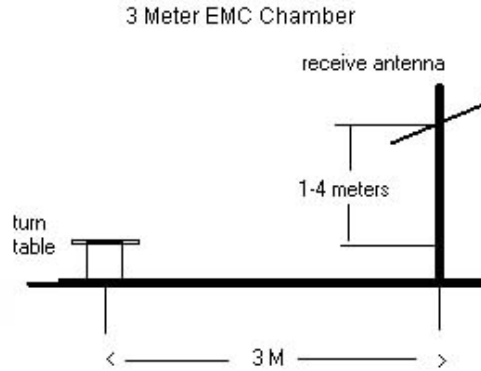


Figure 6-6. Test Instrument & Measurement Setup

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Test Notes

1. The optional test procedures for antenna port conducted measurements of unwanted emissions per the guidance of KDB 558074 v03r01 were not used to evaluate this device for compliance to radiated limits. All radiated spurious emissions levels were measured in a radiated test setup.
2. All emissions lying in restricted bands specified in §15.205 are below the limit shown in Table 6-10.
3. The antenna is manipulated through typical positions, polarity and length during the tests. The EUT is manipulated through three orthogonal planes.
4. The EUT is supplied with nominal AC voltage and/or a new/fully-recharged battery.
5. The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter using CISPR quasi peak detector below 1GHz. Above 1 GHz, average and peak measurements were taken using linearly polarized horn antennas. The worst-case emissions are reported however emissions whose levels were not within 20dB of the respective limits were not 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. Average levels at -135dBm and peak levels at -125dBm represent the analyzer noise floor and signify that no emission was detected.

Sample Calculations

Determining Spurious Emissions Levels

- o Field Strength Level $_{[dB\mu V/m]} = \text{Analyzer Level}_{[dBm]} + 107 + \text{AFCL}_{[dB/m]}$
- o $\text{AFCL}_{[dB/m]} = \text{Antenna Factor}_{[dB/m]} + \text{Cable Loss}_{[dB]}$
- o $\text{Margin}_{[dB]} = \text{Field Strength Level}_{[dB\mu V/m]} - \text{Limit}_{[dB\mu V/m]}$

Radiated Band Edge Measurement Offset

- o The amplitude offset shown in the radiated restricted band edge plots in Section 6.8 was calculated using the formula:

$$\text{Offset (dB)} = (\text{Antenna Factor} + \text{Cable Loss} + 10 \text{ dB Attenuator}) - \text{Preamplifier Gain}$$

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Radiated Spurious Emission Measurements (Cont'd)

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2412MHz
Channel: 01

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4824.00	-108.48	Avg	H	42.17	40.70	53.98	-13.28
4824.00	-96.58	Peak	H	42.17	52.60	73.98	-21.38
12060.00	-135.00	Avg	H	66.72	38.72	53.98	-15.26
12060.00	-125.00	Peak	H	66.72	48.72	73.98	-25.26

Table 6-11. Radiated Measurements

Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2437MHz
Channel: 06

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4874.00	-108.65	Avg	H	42.26	40.61	53.98	-13.37
4874.00	-97.26	Peak	H	42.26	52.00	73.98	-21.98
7311.00	-135.00	Avg	H	48.89	20.89	53.98	-33.09
7311.00	-125.00	Peak	H	48.89	30.89	73.98	-43.09
12185.00	-135.00	Avg	H	68.94	40.94	53.98	-13.04
12185.00	-125.00	Peak	H	68.94	50.94	73.98	-23.04

Table 6-12. Radiated Measurements

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Radiated Spurious Emission Measurements (Cont'd)

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

Worst Case Mode: 802.11b
Worst Case Transfer Rate: 1 Mbps
Distance of Measurements: 3 Meters
Operating Frequency: 2462MHz
Channel: 11

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
4924.00	-108.93	Avg	H	42.38	40.45	53.98	-13.53
4924.00	-96.44	Peak	H	42.38	52.94	73.98	-21.04
7386.00	-135.00	Avg	H	48.92	20.92	53.98	-33.06
7386.00	-125.00	Peak	H	48.92	30.92	73.98	-43.06
12310.00	-135.00	Avg	H	70.78	42.78	53.98	-11.20
12310.00	-125.00	Peak	H	70.78	52.78	73.98	-21.20

Table 6-13. Radiated Measurements

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 Meter
Operating Frequency: 5745MHz
Channel: 149

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11490.00	-109.93	Avg	H	41.76	-9.54	29.29	53.98	-24.69
11490.00	-100.96	Peak	H	41.76	-9.54	38.26	73.98	-35.72
22980.00	-135.00	Avg	H	51.25	-9.54	23.25	53.98	-30.73
22980.00	-125.00	Peak	H	51.25	-9.54	33.25	73.98	-40.73

Table 6-14. Radiated Measurements

FCC ID: A3LGTI9158		FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Radiated Spurious Emission Measurements (Cont'd)

§15.247(d) / §15.205 & §15.209; RSS-210 [A8.5]

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 Meter
Operating Frequency: 5785MHz
Channel: 157

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11570.00	-110.66	Avg	H	56.32	-9.54	43.12	53.98	-10.86
11570.00	-101.41	Peak	H	56.32	-9.54	52.37	73.98	-21.61

Table 6-15. Radiated Measurements

Worst Case Mode: 802.11a
Worst Case Transfer Rate: 6 Mbps
Distance of Measurements: 1 Meter
Operating Frequency: 5825MHz
Channel: 165

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Distance Correction Factor [dB]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
11650.00	-110.92	Avg	H	56.05	-9.54	42.58	53.98	-11.39
11650.00	-101.04	Peak	H	56.05	-9.54	52.46	73.98	-21.51

Table 6-16. Radiated Measurements

FCC ID: A3LGTI9158		FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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6.9 Radiated Restricted Band Edge Measurements

§15.205 / §15.209; RSS-210 [A8.5]

The radiated restricted band edge measurements are measured with an EMI test receiver connected to the receive antenna while the EUT is transmitting.

Worst Case Mode: 802.11g

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2412MHz

Channel: 1

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBmV/m]	Limit [dBmV/m]	Margin [dB]
2352.88	-110.19	Avg	H	36.29	33.10	53.98	-20.88
2352.88	-97.68	Peak	H	36.29	45.60	73.98	-28.38
2385.20	-109.83	Avg	H	36.30	33.47	53.98	-20.51
2385.20	-96.97	Peak	H	36.30	46.33	73.98	-27.65
2390.00	-109.59	Avg	H	36.31	33.72	53.98	-20.25
2390.00	-99.45	Peak	H	36.31	43.86	73.98	-30.12

Plot 6-59. Radiated Restricted Lower Band Edge Measurement

FCC ID: A3LGTI9158		FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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Radiated Restricted Band Edge Measurements (Cont'd)

§15.205 / §15.209; RSS-210 [A8.5]

Worst Case Mode: 802.11g

Worst Case Transfer Rate: 6Mbps

Distance of Measurements: 3 Meters

Operating Frequency: 2462MHz

Channel: 11

Frequency [MHz]	Analyzer Level [dBm]	Detector	Pol. [H/V]	AFCL [dB/m]	Field Strength [dBμV/m]	Limit [dBμV/m]	Margin [dB]
2483.50	-108.01	Avg	H	36.29	35.28	53.98	-18.70
2483.50	-98.35	Peak	H	36.29	44.93	73.98	-29.05
2487.38	-107.89	Avg	H	36.30	35.41	53.98	-18.57
2487.38	-96.38	Peak	H	36.30	46.92	73.98	-27.06
2490.46	-107.98	Avg	H	36.31	35.33	53.98	-18.64
2490.46	-96.45	Peak	H	36.31	46.86	73.98	-27.12

Plot 6-60. Radiated Restricted Upper Band Edge Measurement

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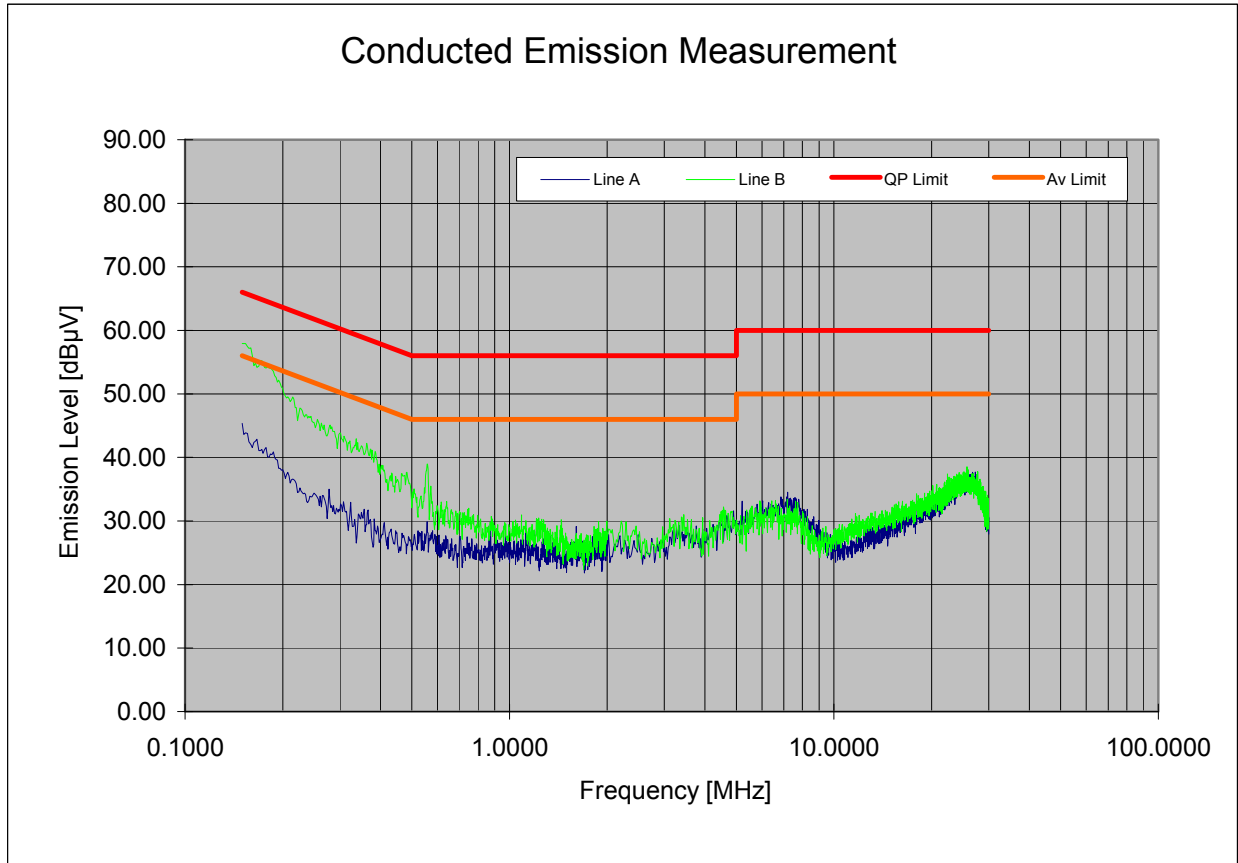
6.10 Line-Conducted Test Data

§15.207; RSS-Gen [7.2.2]

PCTEST Engineering Laboratory Inc.

Company : Samsung Electronics Co., Ltd.
Model Number : GT-I9158
FCC ID Code : A3LGTI9158
Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz
Tested Date : 05/30/2013
Note : Tested with 802.11b ON



Plot 6-61. Line Conducted Plot with 802.11b

Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11b mode using 1Mbps on Channel 6. The emissions found were not affected by the choice of channel used during testing.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

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Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBμV]	Limit [dBμV]	Margin [dB]	Average [dBμV]	Limit [dBμV]	Margin [dB]
1	A	0.171	6.86	48.51	64.91	-16.40	36.33	54.91	-18.58
2	A	0.204	6.87	43.66	63.45	-19.79	31.88	53.45	-21.57
3	A	0.237	6.89	39.77	62.20	-22.43	28.72	52.20	-23.48
4	A	0.271	6.90	38.41	61.10	-22.69	27.80	51.10	-23.30
5	A	0.304	6.91	37.22	60.14	-22.92	27.04	50.14	-23.10
6	A	0.336	6.92	37.78	59.31	-21.53	21.23	49.31	-28.08
7	A	0.367	6.93	36.46	58.57	-22.11	25.13	48.57	-23.44
8	A	0.374	6.94	33.61	58.41	-24.80	24.04	48.41	-24.37
9	A	0.433	6.95	38.54	57.19	-18.65	28.72	47.19	-18.47
10	A	0.497	6.97	37.77	56.05	-18.28	28.70	46.05	-17.35
11	B	0.150	6.84	41.97	66.00	-24.03	32.47	56.00	-23.53
12	B	0.154	6.84	42.51	65.77	-23.26	31.37	55.77	-24.40
13	B	0.175	6.86	34.53	64.73	-30.20	27.07	54.73	-27.66
14	B	0.209	6.87	31.27	63.25	-31.98	25.87	53.25	-27.38
15	B	0.232	6.89	29.07	62.39	-33.32	24.28	52.39	-28.11
16	B	0.269	6.90	28.70	61.15	-32.45	19.95	51.15	-31.20
17	B	0.307	6.92	28.01	60.05	-32.04	19.67	50.05	-30.38
18	B	0.427	6.95	27.92	57.32	-29.40	18.63	47.32	-28.69
19	B	0.463	6.96	33.80	56.64	-22.84	22.52	46.64	-24.12
20	B	0.474	6.96	29.46	56.45	-26.99	18.56	46.45	-27.89

Table 6-17. Line Conducted Data with 802.11b

Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11b mode using 1Mbps on Channel 6. The emissions found were not affected by the choice of channel used during testing.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Factor (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Factor (dB)
6. Margin (dB) = QP/AV Level (dBμV) – QP/AV Limit (dBμV)
7. Traces shown in plot are made using a peak detector.
8. Deviations to the Specifications: None.

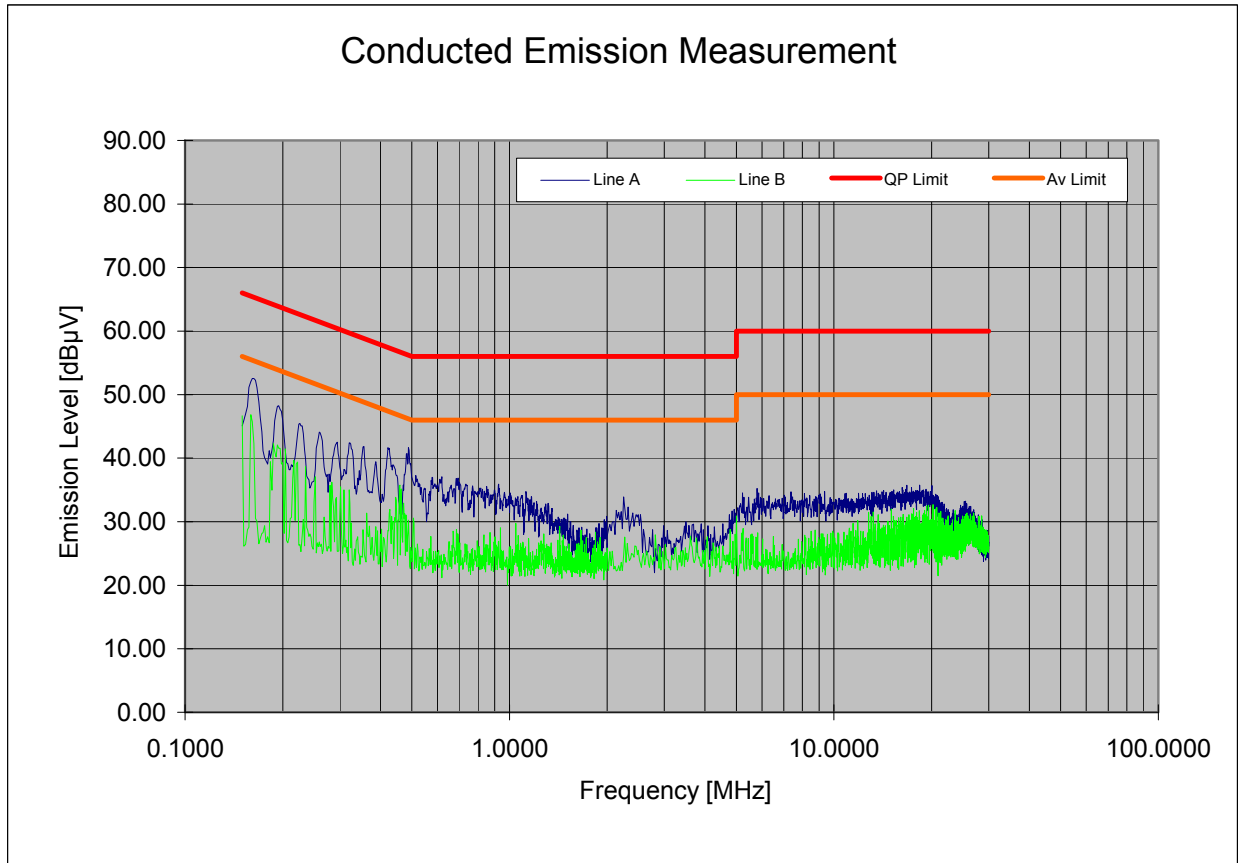
FCC ID: A3LGTI9158		FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
Test Report S/N: 0Y1305240899.A3L	Test Dates: May 29 - June 07, 2013	EUT Type: Portable Handset		Page 60 of 63

Line-Conducted Test Data (Cont'd)
§15.207; RSS-Gen [7.2.2]

PCTEST Engineering Laboratory Inc.

Company : Samsung Electronics Co., Ltd.
Model Number : GT-I9158
FCC ID Code : A3LGTI9158
Standard : FCC Part 15C, 15.207

Power Source : AC120V/60Hz
Tested Date : 05/30/2013
Note : Tested with 802.11a ON



Plot 6-62. Line Conducted Plot with 802.11a

Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11b mode using 1Mbps on Channel 6. The emissions found were not affected by the choice of channel used during testing.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Traces shown in plot are made using a peak detector.
5. Deviations to the Specifications: None.

FCC ID: A3LGTI9158	PCTEST ENGINEERING LABORATORY, INC.	FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)	SAMSUNG	Reviewed by: Quality Manager
Test Report S/N: 0Y1305240899.A3L	Test Dates: May 29 - June 07, 2013	EUT Type: Portable Handset		Page 61 of 63

Line-Conducted Test Data (Cont'd)

§15.207; RSS-Gen [7.2.2]

No.	Line	Frequency [MHz]	Factor [dB]	QP [dBμV]	Limit [dBμV]	Margin [dB]	Average [dBμV]	Limit [dBμV]	Margin [dB]
1	A	0.150	6.85	44.49	66.00	-21.51	35.21	56.00	-20.79
2	A	24.035	8.96	32.76	60.00	-27.24	20.74	50.00	-29.26
3	A	24.986	9.06	33.41	60.00	-26.59	23.48	50.00	-26.52
4	A	25.175	9.08	33.36	60.00	-26.64	20.34	50.00	-29.66
5	A	25.346	9.10	33.88	60.00	-26.12	23.32	50.00	-26.68
6	A	25.794	9.15	33.85	60.00	-26.15	26.89	50.00	-23.11
7	A	26.280	9.20	33.87	60.00	-26.13	23.74	50.00	-26.26
8	A	26.669	9.24	34.13	60.00	-25.87	23.80	50.00	-26.20
9	A	26.977	9.27	33.96	60.00	-26.04	21.95	50.00	-28.05
10	A	27.258	9.29	33.73	60.00	-26.27	23.24	50.00	-26.76
11	B	0.150	6.84	54.90	66.00	-11.10	37.67	56.00	-18.33
12	B	0.160	6.85	51.88	65.47	-13.59	35.88	55.47	-19.59
13	B	0.243	6.89	42.16	62.00	-19.84	27.34	52.00	-24.66
14	B	0.280	6.91	39.36	60.81	-21.45	27.03	50.81	-23.78
15	B	0.341	6.93	36.88	59.19	-22.31	26.40	49.19	-22.79
16	B	0.359	6.93	36.33	58.75	-22.42	26.73	48.75	-22.02
17	B	0.378	6.94	35.72	58.32	-22.60	26.34	48.32	-21.98
18	B	0.491	6.97	31.65	56.14	-24.49	20.45	46.14	-25.69
19	B	0.560	6.98	33.71	56.00	-22.29	25.96	46.00	-20.04
20	B	0.566	6.98	34.26	56.00	-21.74	25.85	46.00	-20.15

Table 6-18. Line Conducted Data with 802.11a

Notes:

1. All modes of operation, data rates, and test channels were investigated and the worst-case emissions are reported in 802.11b mode using 1Mbps on Channel 6. The emissions found were not affected by the choice of channel used during testing.
2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title 47 CFR.
3. Line A = Phase; Line B = Neutral
4. Factor (dB) = Cable loss (dB) + LISN insertion factor (dB)
5. QP/AV Level (dBμV) = QP/AV Analyzer/Receiver Level (dBμV) + Factor (dB)
6. Margin (dB) = QP/AV Level (dBμV) – QP/AV Limit (dBμV)
7. Traces shown in plot are made using a peak detector.
8. Deviations to the Specifications: None.

FCC ID: A3LGTI9158		FCC Pt. 15.247 802.11a/b/g/n MEASUREMENT REPORT (CERTIFICATION)		Reviewed by: Quality Manager
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7.0 CONCLUSION

The data collected relate only the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LGTI9158** is in compliance with Part 15C of the FCC Rules.

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