



FCC CFR47 PART 15 SUBPART C

**ANT+
CERTIFICATION TEST REPORT**

FOR

GSM/WCDMA Tablet + Bluetooth, DTS/UNII a/b/g/n/ac & ANT+

MODEL NUMBER: SM-T805C

FCC ID: A3LSMT805C

REPORT NUMBER: 14U17722-6 REVISION B

ISSUE DATE: June 5, 2014

**Prepared for
SAMSUNG ELECTRONICS CO., LTD.
416, MAETAN 3-DONG, YEONGTONG-GU
SUWON-CITY, GYEONGGI-DO 443-742, SOUTH KOREA**

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NVLAP LAB CODE 200065-0

Revision History

Rev.	Issue Date	Revisions	Revised By
--	5/22/14	Initial Issue	P. Zhang
A	6/5/14	Updated antenna information	P. Zhang
B	6/1/14	Updated antenna information	S. Tran

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
416, MAETAN 3-DONG, YEONGTONG-GU
SUWON-CITY, GYEONGGI-DO 443-742, SOUTH KOREA

EUT DESCRIPTION: GSM/WCDMA Tablet + Bluetooth, DTS/UNII a/b/g/n/ac & ANT+

MODEL: SM-T805C

Serial Number: FL-169-A, FL-169-B, FL-169-C (Radiated) FL-169- D(Conducted)

DATE TESTED: MAY 9 – 22, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass

UL Verification Services Inc. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by UL Verification Services Inc. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by UL Verification Services Inc. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Verification Services Inc. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Verification Services Inc. By:



PENG ZHANG
CONSUMER TECHNOLOGY DIVISION
PROJECT LEAD
UL Verification Services Inc.

Tested By:



STEVEN TRAN
CONSUMER TECHNOLOGY DIVISION
TEST TECHNICIAN
UL Verification Services Inc.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15, RSS-GEN Issue 3, and RSS-210 Issue 8.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 and 47266 Benicia Street, Fremont, California, USA. Line conducted emissions are measured only at the 47173 address. The following table identifies which facilities were utilized for radiated emission measurements documented in this report. Specific facilities are also identified in the test results sections.

47173 Benicia Street	47266 Benicia Street
☐ Chamber A	☐ Chamber D
☒ Chamber B	☒ Chamber E
☐ Chamber C	☒ Chamber F

UL Verification Services Inc. is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://ts.nist.gov/standards/scopes/2000650.htm>.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

$$\begin{aligned}\text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m}\end{aligned}$$

4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 18000 MHz	4.94 dB

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is a GSM/WCDMA Tablet + Bluetooth, DTS/UNII a/b/g/n/ac & ANT+.

5.2. MAXIMUM OUTPUT FUNDAMENTAL FIELD STRENGTH

The ANT+ mode has maximum output fundamental field strength as follows:

Frequency Range (MHz)	Mode	Peak E-field Strength (dBuV/m)	Avg E-field Strength (dBuV/m)	Distance (m)
2402 - 2480	ANT +	68.61	68.13	3.00

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antenna, with a maximum gain of -4.60 dBi.

5.4. WORST-CASE CONFIGURATION AND MODE

Radiated emission and power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case scenario.

The fundamental of the EUT was investigated in three orthogonal orientations X,Y,Z, it was determined that Y orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Y orientation.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

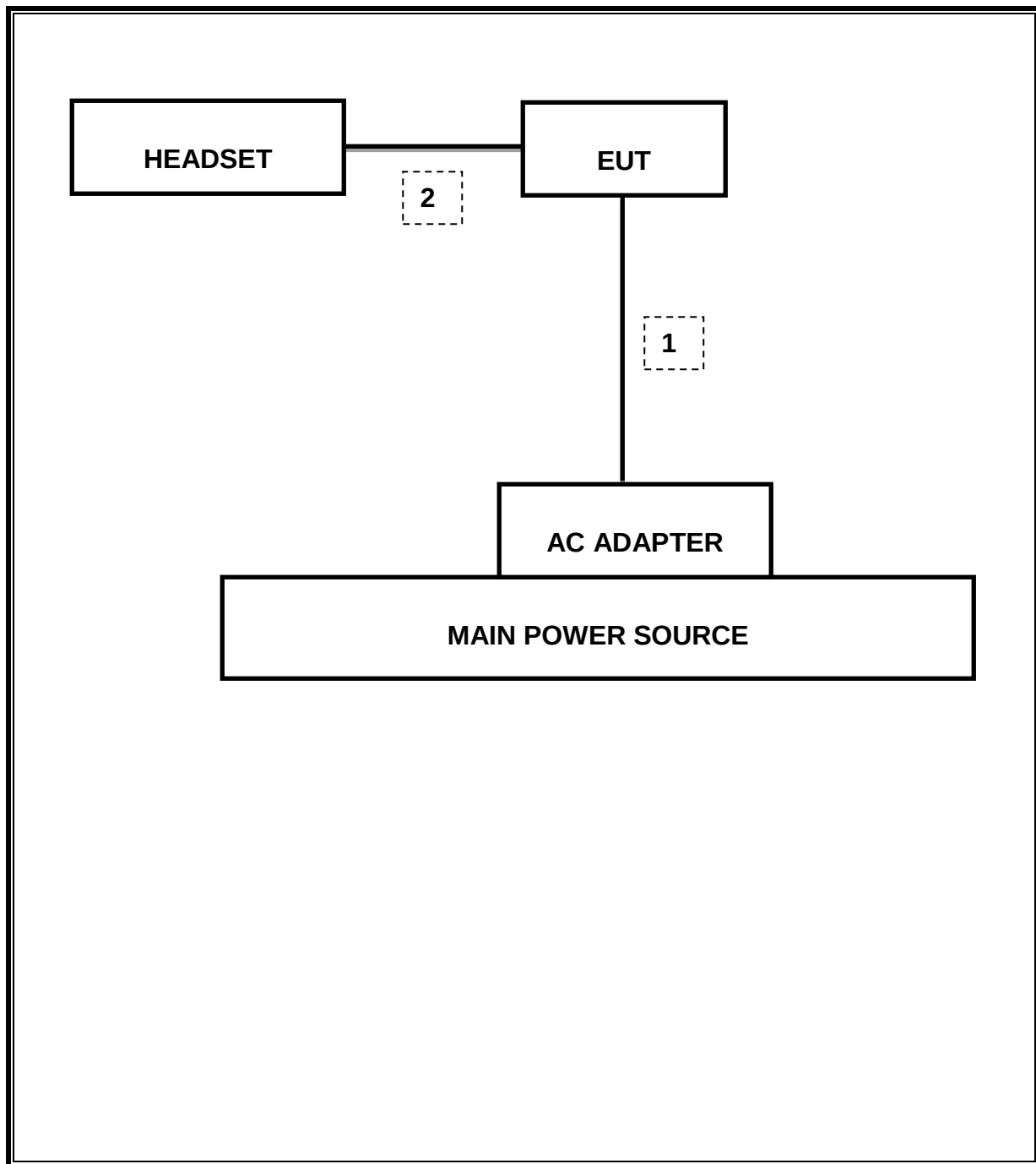
Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	Samsung	SM-T805C	FL-169-A	N/A
Earphone	Samsung	Samsung	N/A	N/A

I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	DC Power	1	Mini-USB	Shielded	1.2m	N/A
2	Audio	1	Mini-Jack	Unshielded	1m	N/A

TEST SETUP

The EUT is set to continuously transmit in ANT + test mode



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

Test Equipment List				
Description	Manufacturer	Model	Asset	Cal Due
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C00986	4/1/2015
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01179	2/26/2015
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	8/8/2014
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	5/8/2015
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	10/22/2014
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	N/A	3/6/2015
Antenna, Horn, 18 GHz	ETS	3117	C01022	2/21/2015
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00589	12/17/2014
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/2014
Peak / Average Power Sensor	Agilent / HP	E9327A	C00964	12/13/2014
LISN, 30 MHz	FCC	50/250-25-2	C00626	1/14/2015

7. LIMITS AND RESULTS

7.1. 99% BANDWIDTH

LIMIT

None; for reporting purposes only.

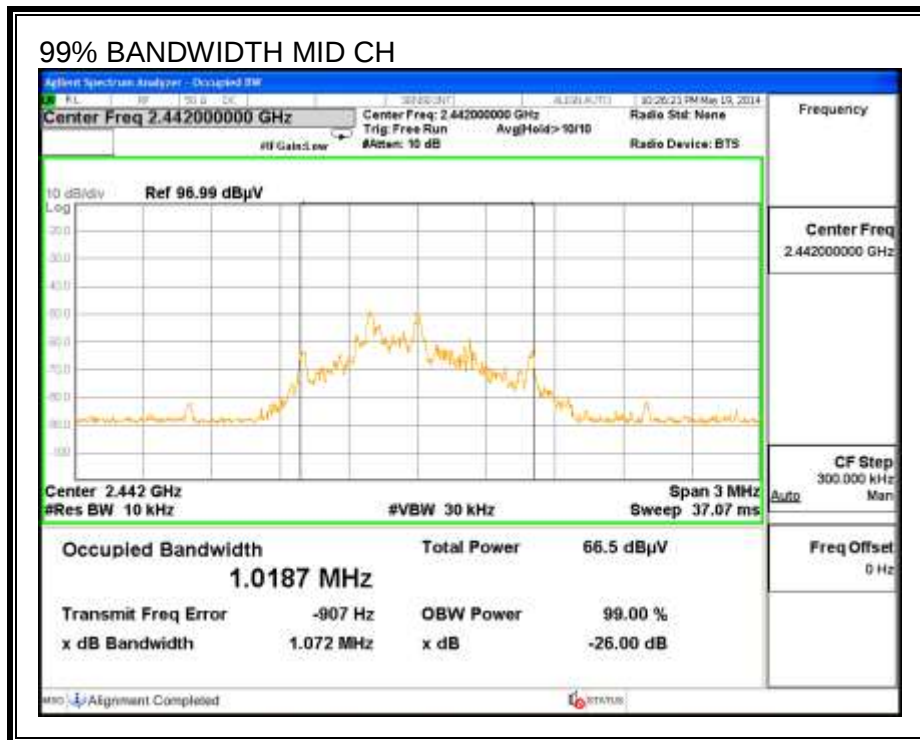
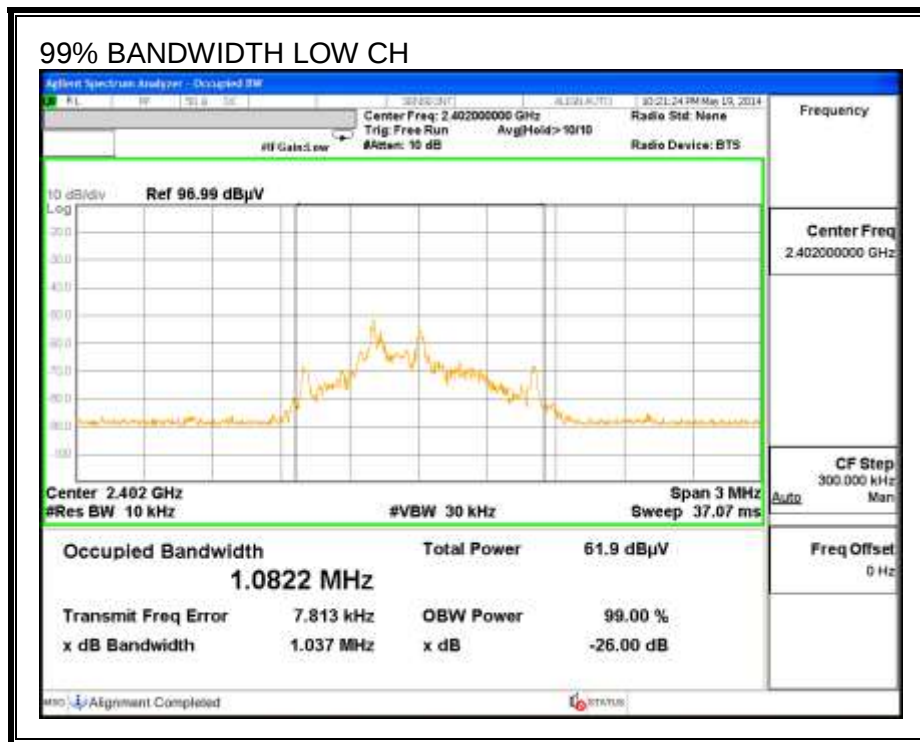
TEST PROCEDURE

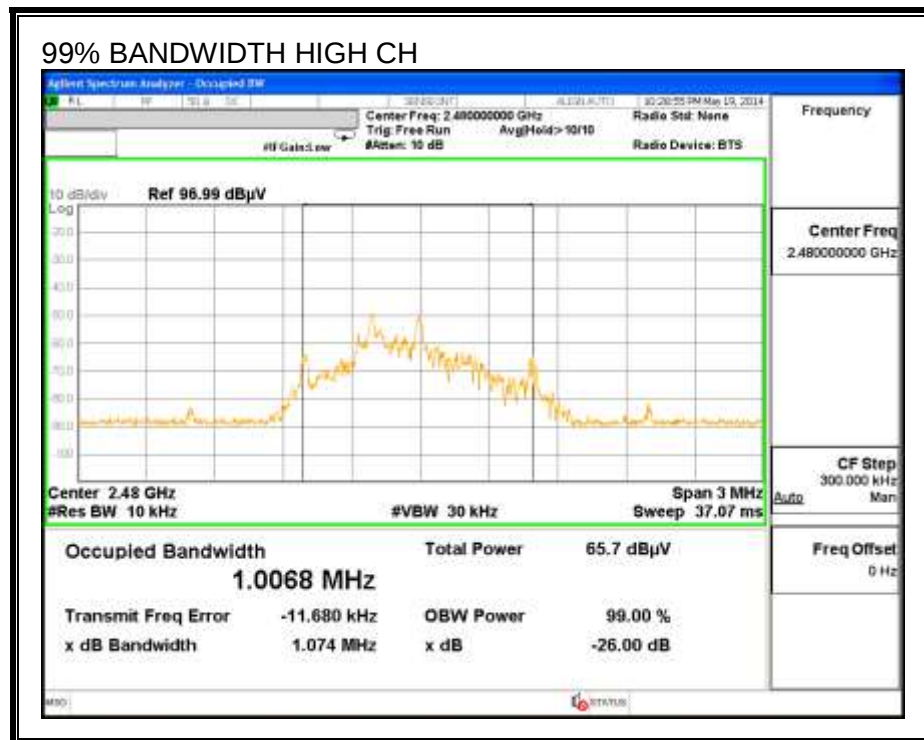
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2402	1.08
Middle	2442	1.02
High	2480	1.01

99% BANDWIDTH





7.2. TRANSMITTER RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4

LIMIT

IC RSS-210, A2.9
FCC 15.249

Operation within the bands 902–928 MHz, 2400–2483.5 MHz, 5725–5875 MHz, and 24.0–24.25 GHz.

(a) Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/ meter)	Field strength of harmonics (microvolts/ meter)
902–928 MHz	50	500
2400–2483.5 MHz	50	500
5725–5875 MHz	50	500
24.0–24.25 GHz	250	2500

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

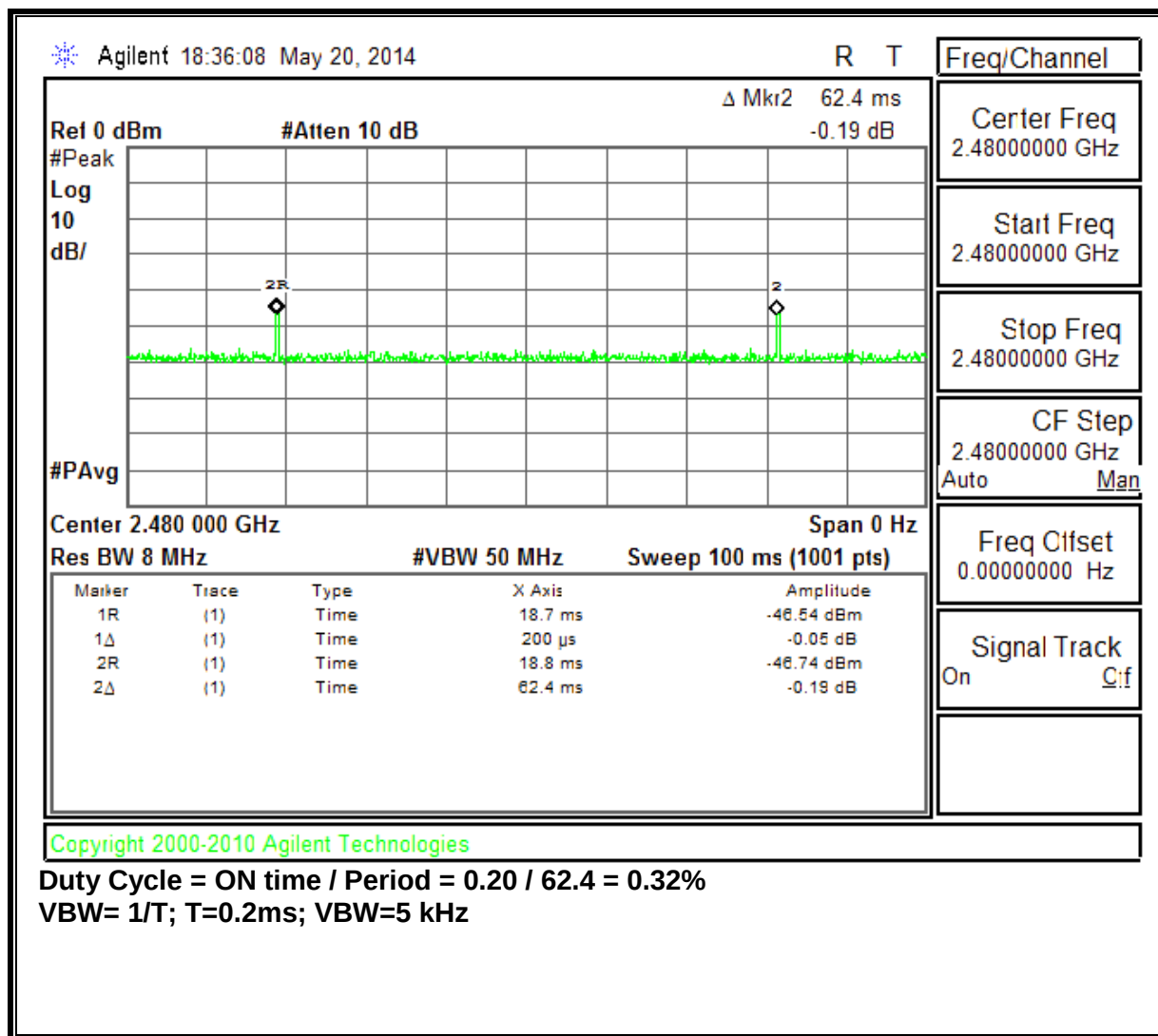
(e) As shown in Sec. 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

Frequency (MHz)	Field strength (microvolts/meter)	Measure- ment dis- tance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100 **	3
88-216	150 **	3
216-960	200 **	3
Above 960	500	3

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§15.231 and 15.241.

RESULTS

7.2.1. DUTY CYCLE



7.2.2. FUNDAMENTAL FREQUENCY RADIATED EMISSION



FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP

47173 BENICIA STREET, FREMONT, CA 94538, USA

Project #: 14U17722
Report #: 14U17722-6
Date & Time: 05/16/14
Test Engr: K.Kedida

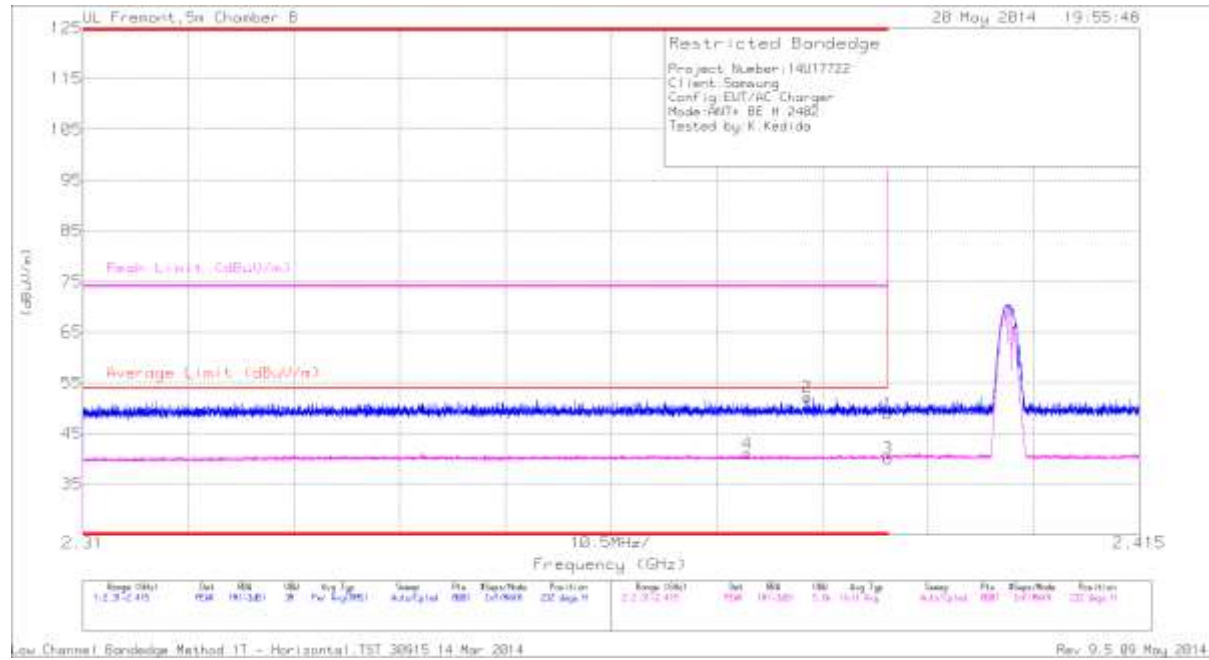
Company: Samsung
EUT Description: EUT only
Test Configuration: X POSITION
Type of Test: FCC
Mode of Operation: Transmitting : ANT+ mode

M% = ((t1+t2+t3+...)/T) * 66.83% = 0.32%

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Pk Level (dBuV/m)	Av Level (dBuV/m)	Pk Limit FCC B	Av Limit FCC B	Pk Margin (dB)	Avg Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)
Low channel														
2402.00	66.21	66.17	32.10	-9.60	0.00	88.71	88.67	114.00	94.00	-25.29	-5.33	3mV	0.00	1.00
2402.00	62.16	61.59	32.10	-9.00	0.00	85.26	84.69	114.00	94.00	-28.74	-9.31	3mH	0.00	2.00
Mid channel														
2442.00	67.43	67.23	32.10	-9.60	0.00	89.93	89.73	114.00	94.00	-24.07	-4.27	3mV	0.00	1.00
2442.00	65.72	65.55	32.10	-9.60	0.00	88.22	88.05	114.00	94.00	-25.78	-5.95	3mH	0.00	2.00
High channel														
2480.00	68.61	68.13	32.10	-9.60	0.00	91.11	90.63	114.00	94.00	-22.89	-3.37	3mV	0.00	1.00
2480.00	66.31	66.14	32.10	-9.60	0.00	88.81	88.64	114.00	94.00	-25.19	-5.36	3mH	0.00	2.00

7.2.3. TRANSMITTER RESTRICTED BAND EDGES

RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



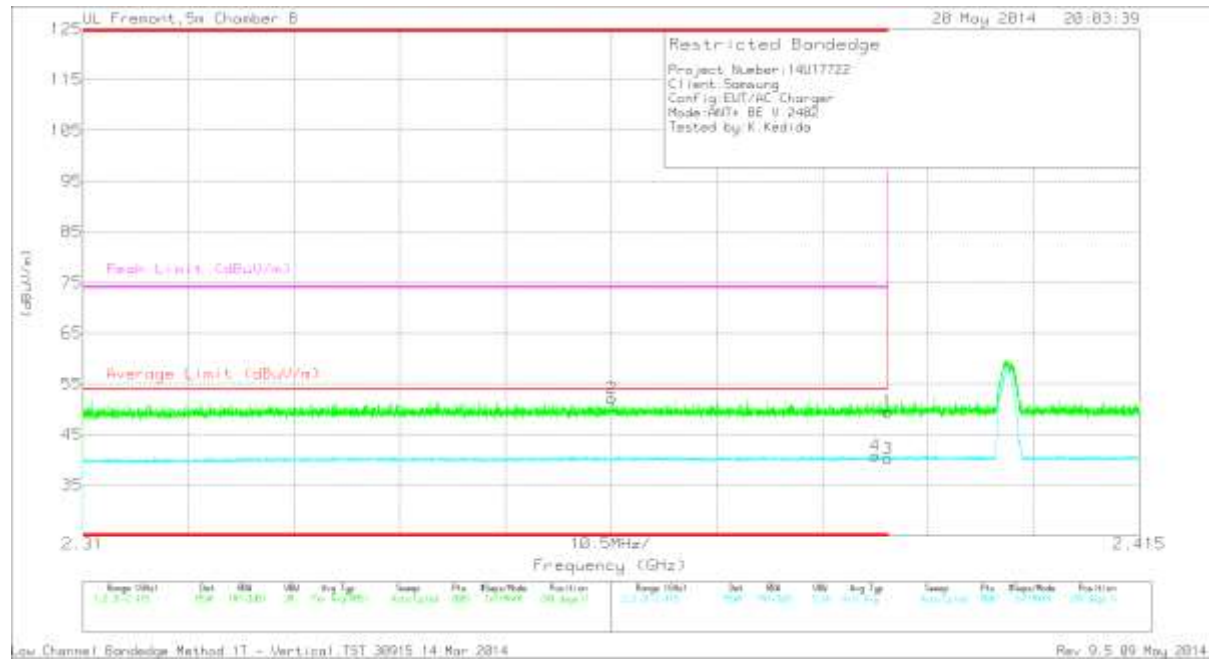
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filt r/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
4	* 2.376	31.9	VB1T	32	-22.9	0	41	54	-13	-	-	232	282	H
2	* 2.382	42.99	PK	32.1	-22.9	0	52.19	-	-	74	-21.81	232	282	H
1	* 2.39	39.68	PK	32.1	-22.8	0	48.98	-	-	74	-25.02	232	282	H
3	* 2.39	30.76	VB1T	32.1	-22.8	0	40.06	54	-13.94	-	-	232	282	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



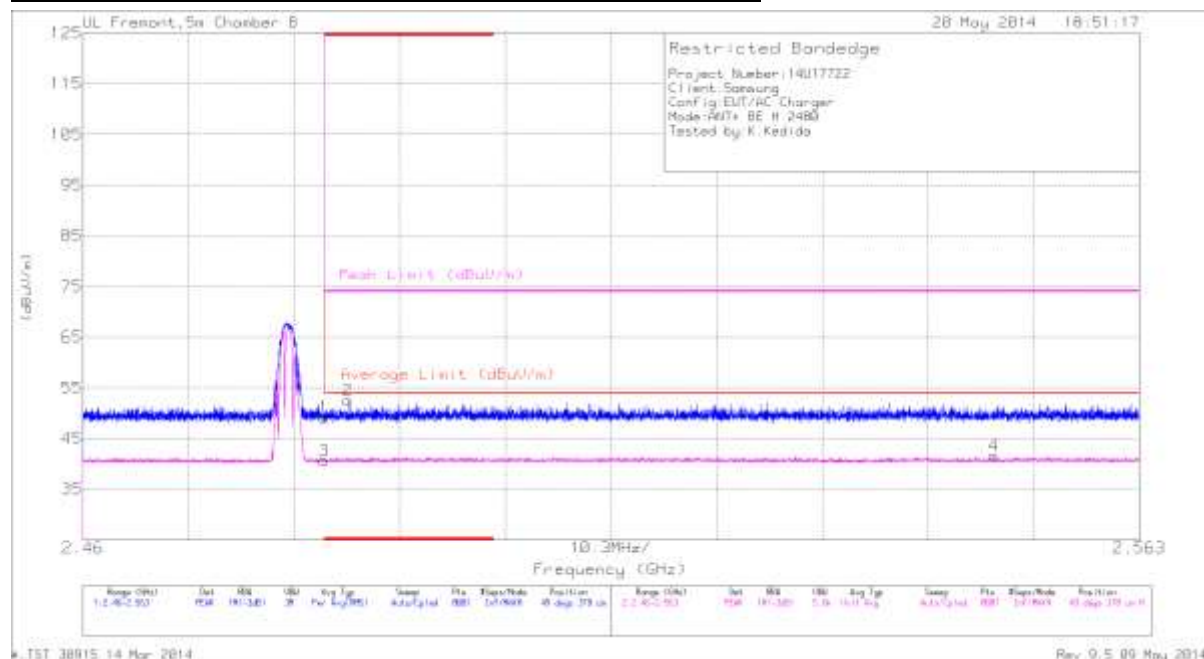
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2	* 2.363	42.95	PK	32	-22.8	0	52.15	-	-	74	-21.85	249	250	V
4	* 2.389	31.61	VB1T	32.1	-22.8	0	40.91	54	-13.09	-	-	249	250	V
1	* 2.39	40.21	PK	32.1	-22.8	0	49.51	-	-	74	-24.49	249	250	V
3	* 2.39	30.95	VB1T	32.1	-22.8	0	40.25	54	-13.75	-	-	249	250	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (HIGH CHANNEL, HORIZONTAL)



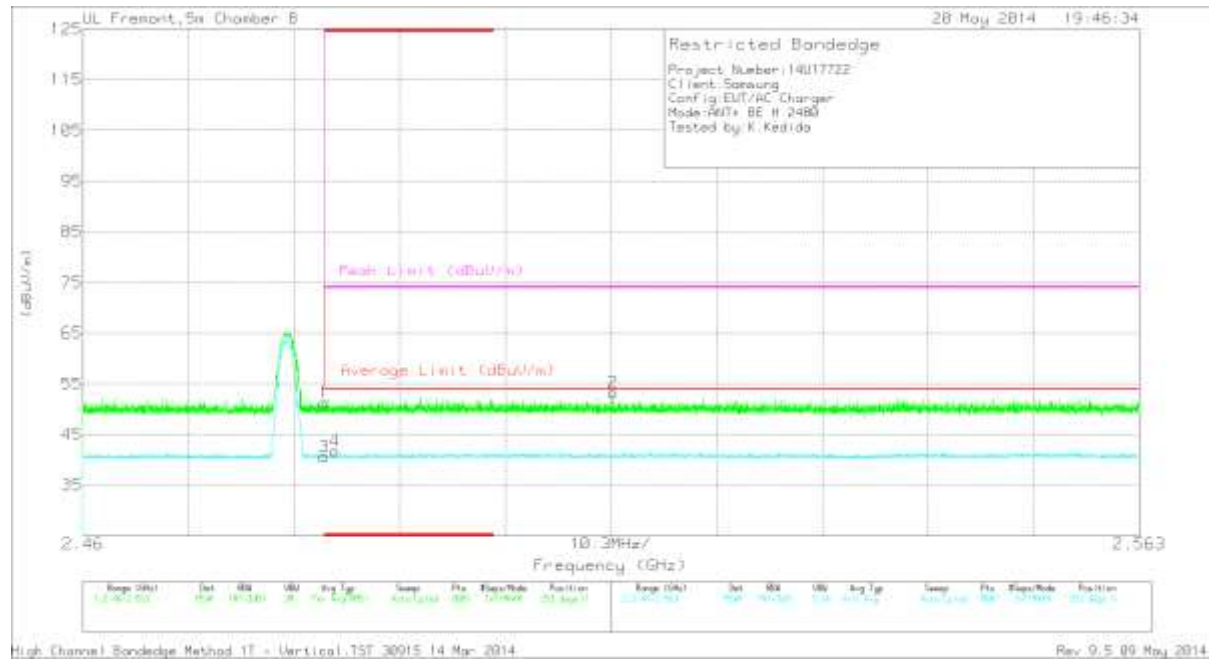
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cb/Filter/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.52	PK	32.4	-22.7	0	49.22	-	-	74	-24.78	49	378	H
2	* 2.486	42.88	PK	32.4	-22.7	0	52.58	-	-	74	-21.42	49	378	H
3	* 2.484	30.89	VB1T	32.4	-22.7	0	40.59	54	-13.41	-	-	49	378	H
4	2.549	31.67	VB1T	32.5	-22.6	0	41.57	54	-12.43	-	-	49	378	H

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

RESTRICTED BANDEGE (HIGH CHANNEL, VERTICAL)



Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF T345 (dB/m)	Amp/Cbl/Filtr/Pad (dB)	DC Corr (dB)	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	41.54	PK	32.4	-22.7	0	51.24	-	-	74	-22.76	253	215	V
3	* 2.484	30.92	VB1T	32.4	-22.7	0	40.62	54	-13.38	-	-	253	215	V
4	* 2.485	32.03	VB1T	32.4	-22.7	0	41.73	54	-12.27	-	-	253	215	V
2	2.512	43.49	PK	32.5	-22.7	0	53.29	-	-	74	-20.71	253	215	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

VB1T - FHSS Method: VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

HARMONICS AND SPURIOUS EMISSIONS ABOVE 1GHz

HARMONICS



FCC, VCCI, CISPR, CE, AUSTEL, NZ
UL, CSA, TUV, BSMI, DHHS, NVLAP
47173 BENICIA STREET, FREMONT, CA 94538, USA

Project #: 14U17722
Report #: 14U17722-6
Date & Time: 05/16/14
Test Engr: K.Kedida

Company: Samsung
EUT Description:
Test Configuration : X POSITION
Type of Test: FCC
Mode of Operation: Transmitting : ANT+ mode

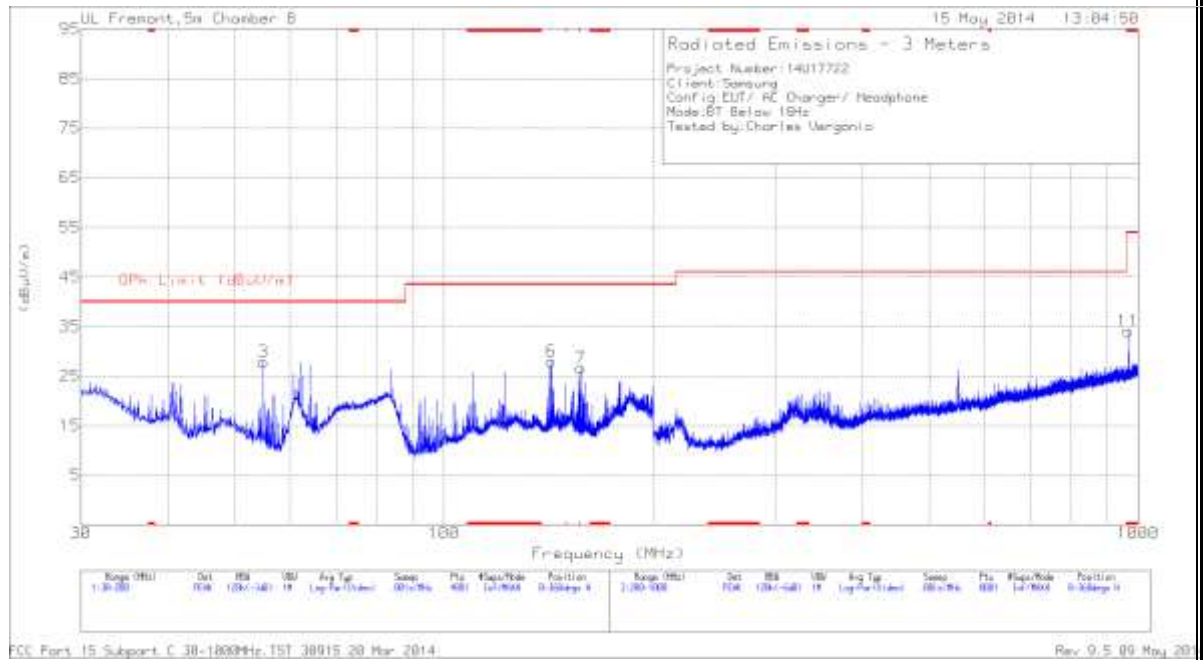
M% = ((t1+t2+t3+...)/T) * 66.83% = 0.32%

Freq. (MHz)	Pk Rdg (dBuV)	Av Rdg (dBuV)	AF (dB)	Closs (dB)	Pre-amp (dB)	Pk Level (dBuV/m)	Av Level (dBuV/m)	Pk Limit FCC B	Av Limit FCC B	Pk Margin (dB)	Avg Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)
Low channel														
4804.00	39.86	31.02	32.10	-9.60	0.00	62.36	53.52	74.00	54.00	-11.64	-0.48	3mV	0.00	1.00
4804.00	39.98	30.88	32.10	-9.60	0.00	62.48	53.38	74.00	54.00	-11.52	-0.62	3mH	0.00	2.00
Mid channel														
4884.00	40.43	31.30	32.10	-9.60	0.00	62.93	53.80	74.00	54.00	-11.07	-0.20	3mV	0.00	1.00
4884.00	40.56	31.16	32.10	-9.60	0.00	63.06	53.66	74.00	54.00	-10.94	-0.34	3mH	0.00	2.00
High channel														
4960.00	39.78	31.24	32.10	-9.60	0.00	62.28	53.74	74.00	54.00	-11.72	-0.26	3mV	0.00	1.00
4960.00	40.20	31.11	32.10	-9.60	0.00	62.70	53.61	74.00	54.00	-11.30	-0.39	3mH	0.00	2.00

7.2.4. SPURIOUS BELOW 1 GHz

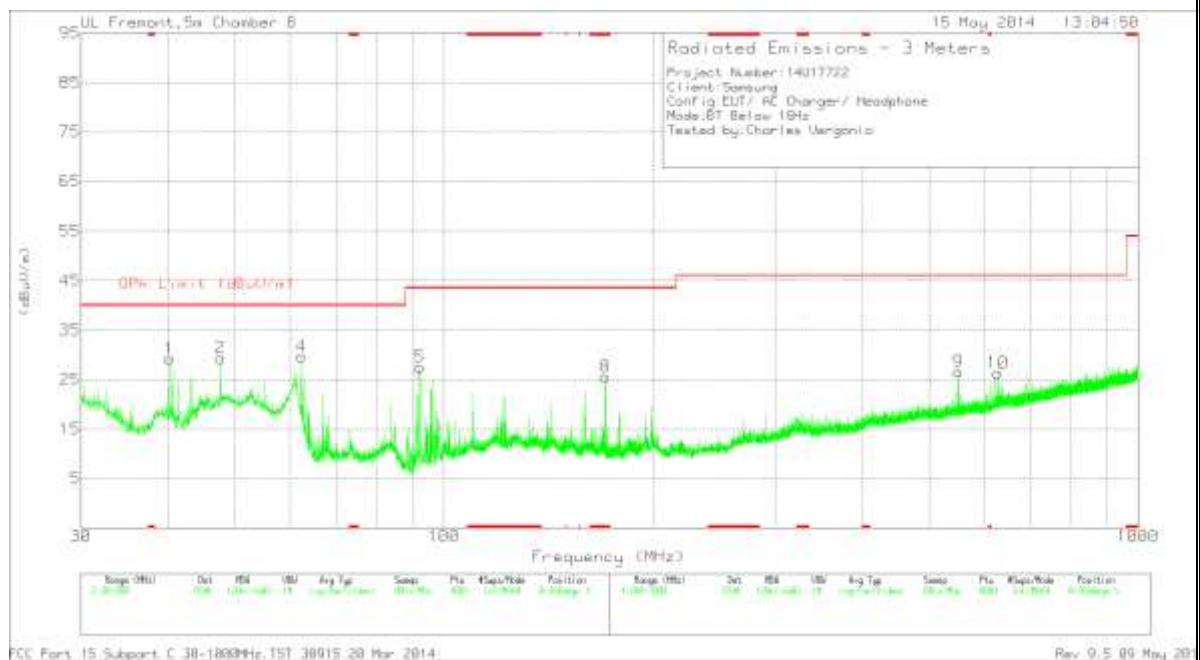
SPURIOUS EMISSIONS 30 TO 1000 MHz (HORIZONTAL)

HORIZONTAL PLOT



SPURIOUS EMISSIONS 30 TO 1000 MHz (VERTICAL)

VERTICAL PLOT



Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	AF T243 (dB/m)	Amp/Cbl (dB)	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
8	* 170.675	41.35	PK	11.5	-27.2	25.65	43.52	-17.87	0-360	101	V
11	* 967.8	33.77	PK	22.8	-22.5	34.07	53.97	-19.9	0-360	300	H
1	40.2425	44.28	PK	13.7	-28.7	29.28	40	-10.72	0-360	101	V
2	47.6375	48.95	PK	9	-28.6	29.35	40	-10.65	0-360	101	V
3	54.9475	49.2	PK	7.2	-28.5	27.9	40	-12.1	0-360	100	H
4	62.4275	50.49	PK	7.6	-28.4	29.69	40	-10.31	0-360	101	V
5	92.305	47.43	PK	8.2	-28.1	27.53	43.52	-15.99	0-360	101	V
6	142.6675	42.82	PK	12.7	-27.5	28.02	43.52	-15.5	0-360	200	H
7	157.4575	41.83	PK	12.2	-27.4	26.63	43.52	-16.89	0-360	300	H
9	550	34.15	PK	18.1	-25.6	26.65	46.02	-19.37	0-360	101	V
10	628	32.14	PK	19.4	-25.2	26.34	46.02	-19.68	0-360	300	V

* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

PK - Peak detector

LIMITS

FCC §15.207 (a)

RSS-Gen 7.2.2

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 [*]	56 to 46 [*]
0.5-5	56	46
5-30	60	50

^{*} Decreases with the logarithm of the frequency.**TEST PROCEDURE**

ANSI C63.4 - 2009

RESULTS

6 WORST EMISSIONS

Line-L1 .15 - 30MHz

Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L1 (dB)	LC Cables 1&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
1	.1725	41.19	PK	1.2	0	42.39	64.8	-22.41	-	-
2	.1725	21.41	Av	1.2	0	22.61	-	-	54.8	-32.19
3	.5865	44.01	PK	.3	0	44.31	56	-11.69	-	-
4	.5865	30.55	Av	.3	0	30.85	-	-	46	-15.15
5	1.599	40.19	PK	.2	.1	40.49	56	-15.51	-	-
6	1.599	23.75	Av	.2	.1	24.05	-	-	46	-21.95
7	1.8285	39.72	PK	.2	.1	40.02	56	-15.98	-	-
8	1.8285	22.93	Av	.2	.1	23.23	-	-	46	-22.77
9	6.1305	30.14	PK	.2	.1	30.44	60	-29.56	-	-
10	6.1305	12.8	Av	.2	.1	13.1	-	-	50	-36.9
11	18.0015	31.52	PK	.3	.2	32.02	60	-27.98	-	-
12	18.0015	17.15	Av	.3	.2	17.65	-	-	50	-32.35
13	18.339	31.24	PK	.3	.2	31.74	60	-28.26	-	-
14	18.339	16.67	Av	.3	.2	17.17	-	-	50	-32.83
15	19.5765	31.37	PK	.3	.2	31.87	60	-28.13	-	-
16	19.5765	17.95	Av	.3	.2	18.45	-	-	50	-31.55
17	22.6815	31.02	PK	.3	.2	31.52	60	-28.48	-	-
18	22.6815	18.21	Av	.3	.2	18.71	-	-	50	-31.29

Line-L2 .15 - 30MHz

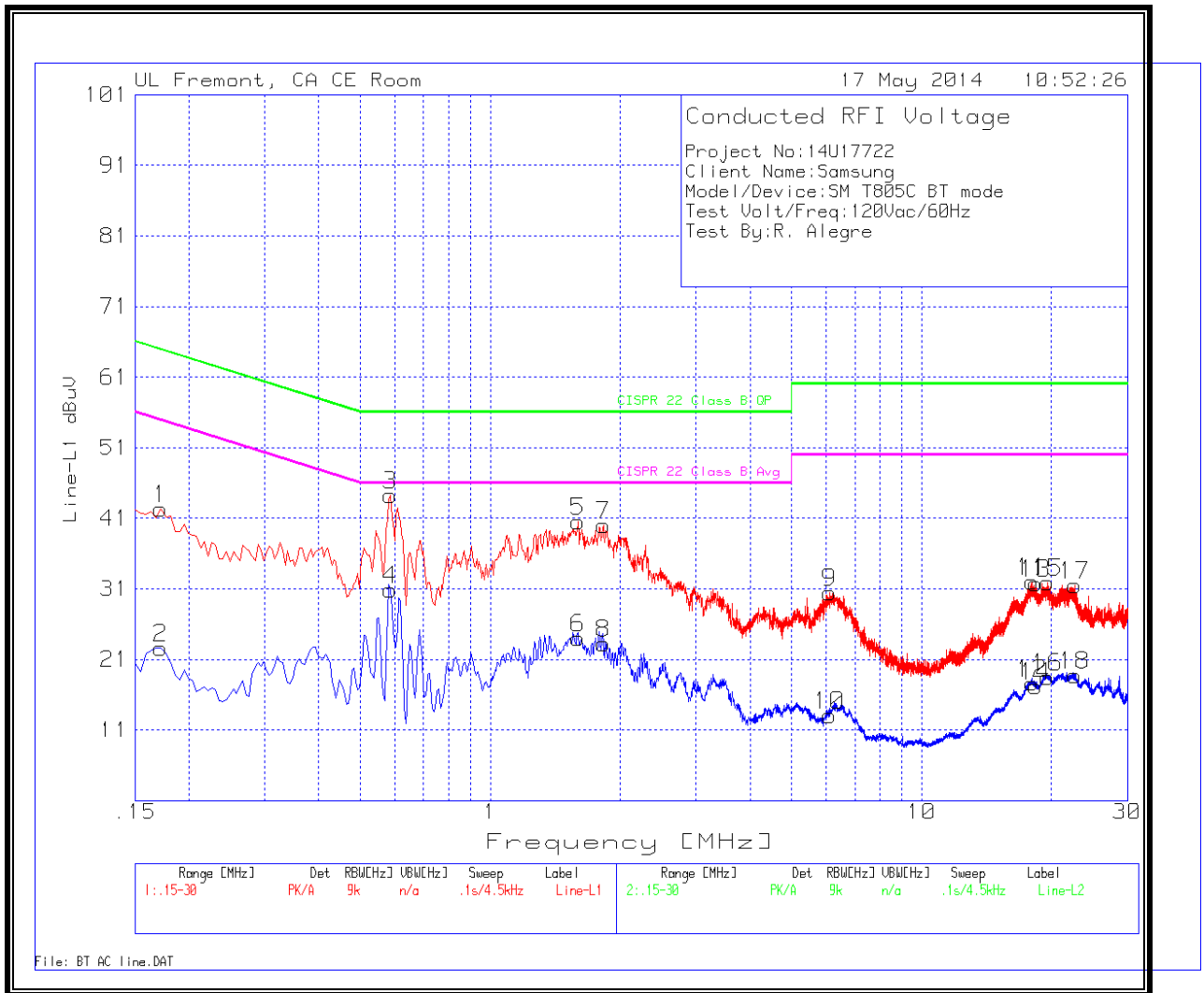
Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	T24 IL L2 (dB)	LC Cables 2&3 (dB)	Corrected Reading dBuV	CISPR 22 Class B QP	Margin to Limit (dB)	CISPR 22 Class B Avg	Margin to Limit (dB)
19	.159	43.56	PK	1.4	0	44.96	65.5	-20.54	-	-
20	.159	20.07	Av	1.4	0	21.47	-	-	55.5	-34.03
21	.5865	40.77	PK	.3	0	41.07	56	-14.93	-	-
22	.5865	30.04	Av	.3	0	30.34	-	-	46	-15.66
23	1.4415	31.97	PK	.2	.1	32.27	56	-23.73	-	-
24	1.4415	16.21	Av	.2	.1	16.51	-	-	46	-29.49
25	1.7025	31.95	PK	.2	.1	32.25	56	-23.75	-	-
26	1.7025	15.54	Av	.2	.1	15.84	-	-	46	-30.16
27	6.261	24.22	PK	.2	.1	24.52	60	-35.48	-	-
28	6.261	10.88	Av	.2	.1	11.18	-	-	50	-38.82
29	20.643	32.85	PK	.3	.2	33.35	60	-26.65	-	-
30	20.643	20.38	Av	.3	.2	20.88	-	-	50	-29.12
31	21.435	32.97	PK	.3	.2	33.47	60	-26.53	-	-
32	21.435	18.68	Av	.3	.2	19.18	-	-	50	-30.82
33	22.857	32.46	PK	.3	.2	32.96	60	-27.04	-	-
34	22.857	17.16	Av	.3	.2	17.66	-	-	50	-32.34
35	23.5365	31.95	PK	.3	.2	32.45	60	-27.55	-	-
36	23.5365	19.01	Av	.3	.2	19.51	-	-	50	-30.49

PK - Peak detector

Av - average detection

LINE 1 RESULTS



LINE 2 RESULTS

