



FCC CFR47 PART 15 SUBPART C

CERTIFICATION TEST REPORT

FOR

GSM/WCDMA/LTE Phone + BT/BLE, DTS/UNII a/b/g/n/ac, ANT+ and NFC

MODEL NUMBER : SM-G9280

FCC ID: A3LSMG9280

REPORT NUMBER: 15K21155-E5

ISSUE DATE: JUL 10, 2015

Prepared for
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129 SAMSUNG-RO, YEONGTONG-GU, SUWON-SI,
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Revision History

Rev.	Issue Date	Revisions	Revised By
--	07/10/15	Initial issue	SungGil Park

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
EUT DESCRIPTION: GSM/WCDMA/LTE Phone + BT/BLE, DTS/UNII a/b/g/n/ac, ANT+ and NFC
MODEL NUMBER: SM-G9280
SERIAL NUMBER: R38G50LQ6LK(RADIATED); R38G50LQ43J(CONDUCTED)
DATE TESTED: JUN 21 - JUL 10, 2015

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

UL Korea, Ltd. 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 Korea, Ltd. 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 Korea, Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL Korea, Ltd. 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 IAS, any agency of the Federal Government, or any agency of any government.

Approved & Released For
UL Korea, Ltd. By:



CY Choi
Suwon Lab Engineer
UL Korea, Ltd.

Tested By:



SungGil Park
Suwon Lab Engineer
UL Korea, Ltd.

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2009, FCC CFR 47 Part 2, FCC CFR 47 Part 15.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 218 Maeyeong-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 443-823, Korea. Line conducted emissions are measured only at the 218 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.

218 Maeyeong-ro	
☒	Chamber 1
☒	Chamber 2

UL Korea, Ltd. is accredited by IAS, Laboratory Code TL-637. The full scope of accreditation can be viewed at <http://www.iasonline.org/PDF/TL/TL-637.pdf>.

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	2.32 dB
Radiated Disturbance, Below 1GHz	4.14 dB
Radiated Disturbance, Above 1 GHz	5.97 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/LTE Phone+BT/BLE, DTS/UNII a/b/g/n/ac, ANT+ and NFC.
This test report addresses the ANT+ operational mode.

5.2. MAXIMUM OUTPUT POWER

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 +	91.40	43.00	3.00

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an FPCB antennas, with a maximum gain of -0.3 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 and Z it was determined that X orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in X orientation.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Charger	SAMSUNG	EP-TA20CBC	R37FCPc00R1DK3	N/A
Data Cable	SAMSUNG	EP-DG925UWE	N/A	N/A
Earphone	SAMSUNG	EO-EG920LW	N/A	N/A

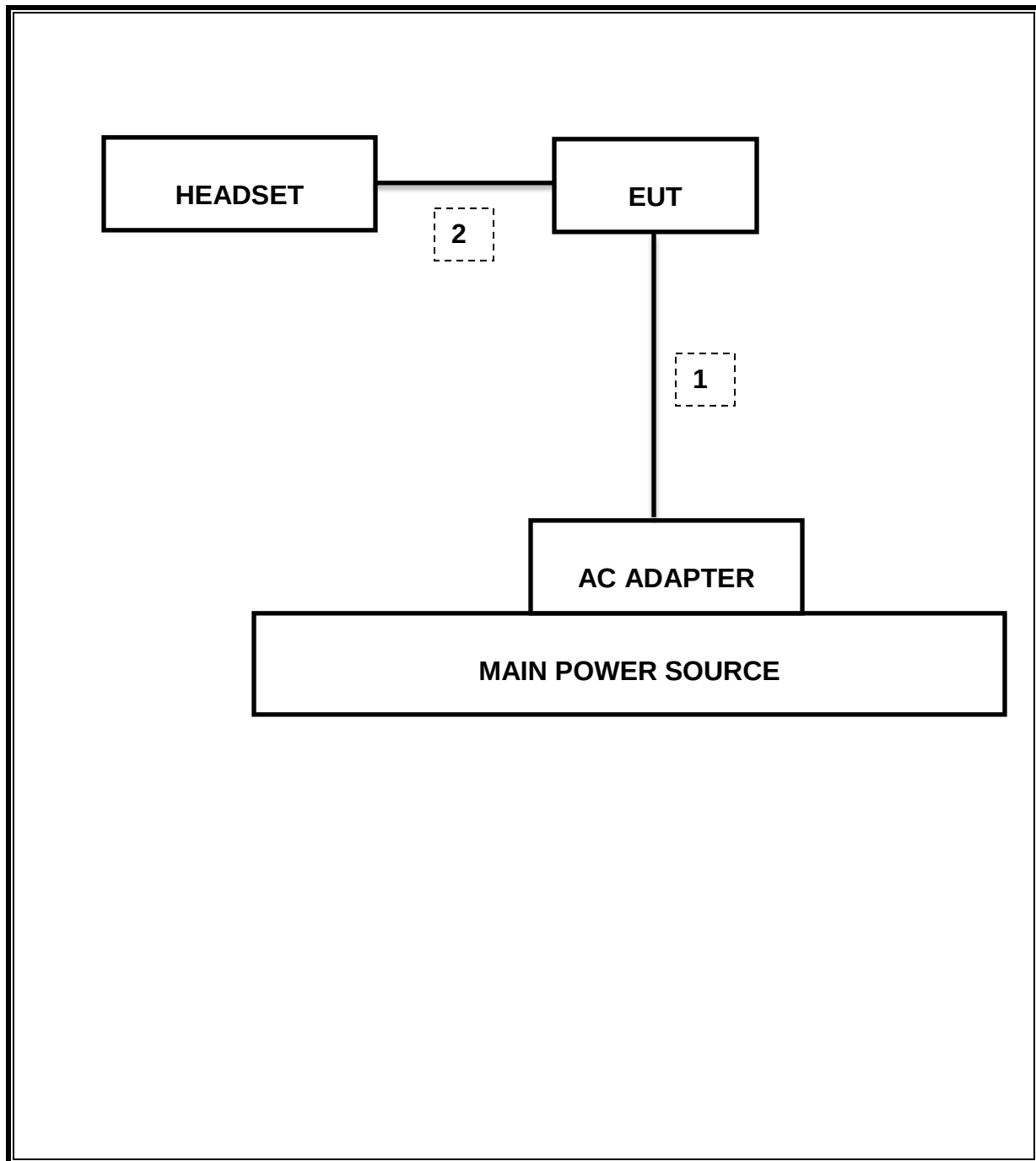
I/O CABLES

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	0.8m	N/A
2	Audio	1	Mini-Jack	Unshielded	1.0m	N/A

TEST SETUP

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

SETUP DIAGRAM FOR TESTS



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	S/N	Cal Due
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	950	11-17-15
Antenna, Bilog, 30MHz-1GHz	SCHWARZBECK	VULB9163	949	04-25-16
Antenna, Horn, 18 GHz	ETS	3117	00168717	06-17-16
Antenna, Horn, 18 GHz	ETS	3117	00168724	06-17-16
Antenna, Horn, 40 GHz	ETS	3116C	00166255	09-23-15
Antenna, Horn, 40 GHz	ETS	3116C-PA	00168841	09-29-15
Preamplifier, 1000 MHz	Sonoma	310N	341282	11-17-15
Preamplifier, 1000 MHz	Sonoma	310N	351741	05-19-16
Preamplifier, 18 GHz	Miteq	AFS42-00101800-25-S-42	1876511	11-18-15
Spectrum Analyzer, 44 GHz	Agilent / HP	N9030A	MY54170614	09-23-15
Bluetooth Tester	TESCOM	TC-3000C	3000C000546	11-17-15
Average Power Sensor	R&S	NRZ-Z91	102681	11-17-15
Average Power Sensor	Agilent / HP	U2000	MY54270007	09-23-15
EMI Test Receive, 40 GHz	R&S	ESU40	100457	04-30-16
EMI Test Receive, 40 GHz	R&S	ESU40	100439	11-17-15
EMI Test Receive, 3 GHz	R&S	ESR3	101832	11-17-15
Attenuator / Switch driver	HP	11713A	3748A04272	N/A
Low Pass Filter 3GHz	Micro-Tronics	LPS17541	009	11-17-15
High Pass Filter 5GHz	Micro-Tronics	HPS17542	009	11-17-15
High Pass Filter 6GHz	Micro-Tronics	HPM17543	010	11-17-15
LISN	R&S	ENV-216	101836	04-09-16
LISN	R&S	ENV-216	101837	04-09-16

7. LIMITS AND RESULTS

7.1. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

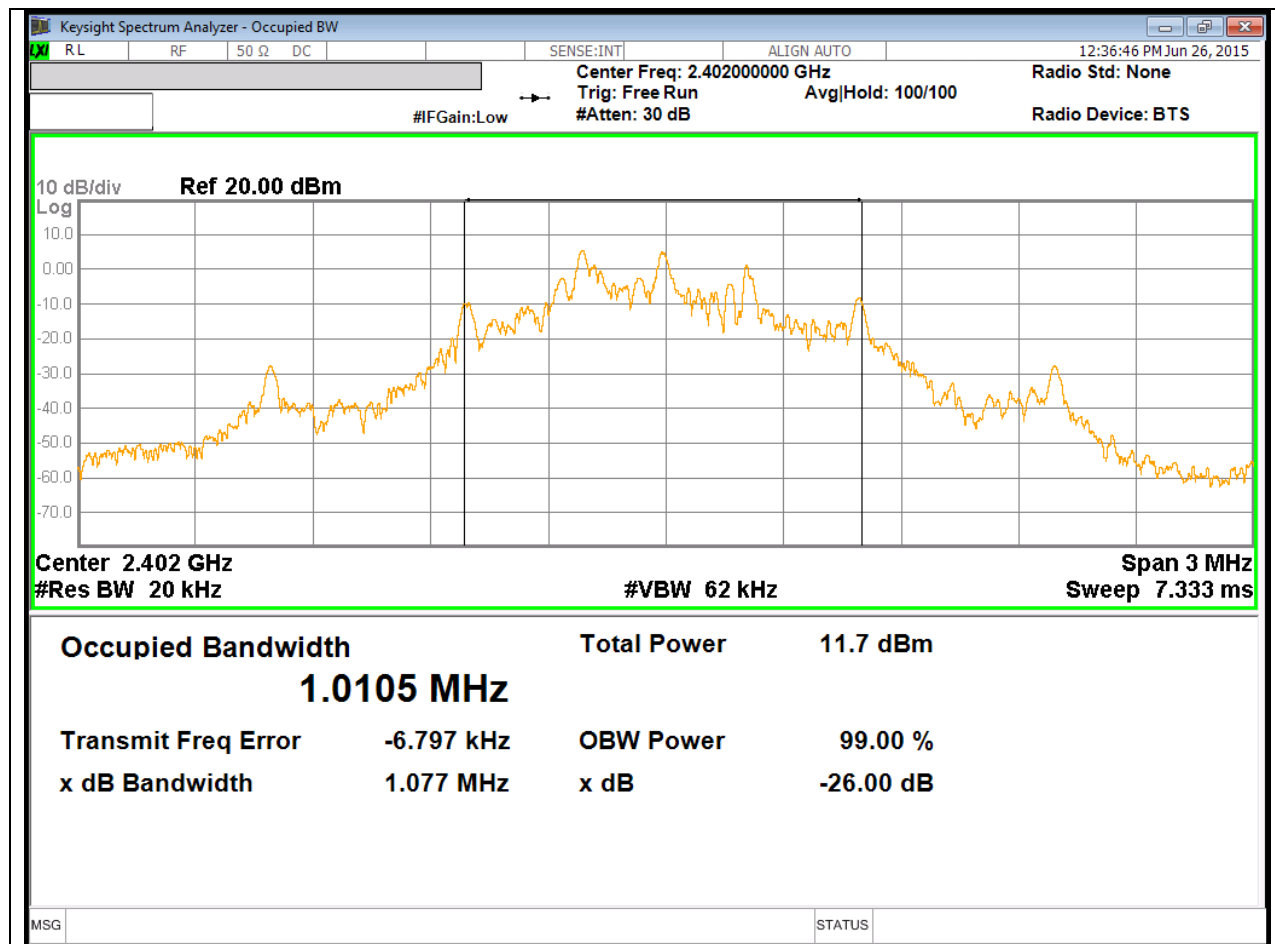
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

RESULTS

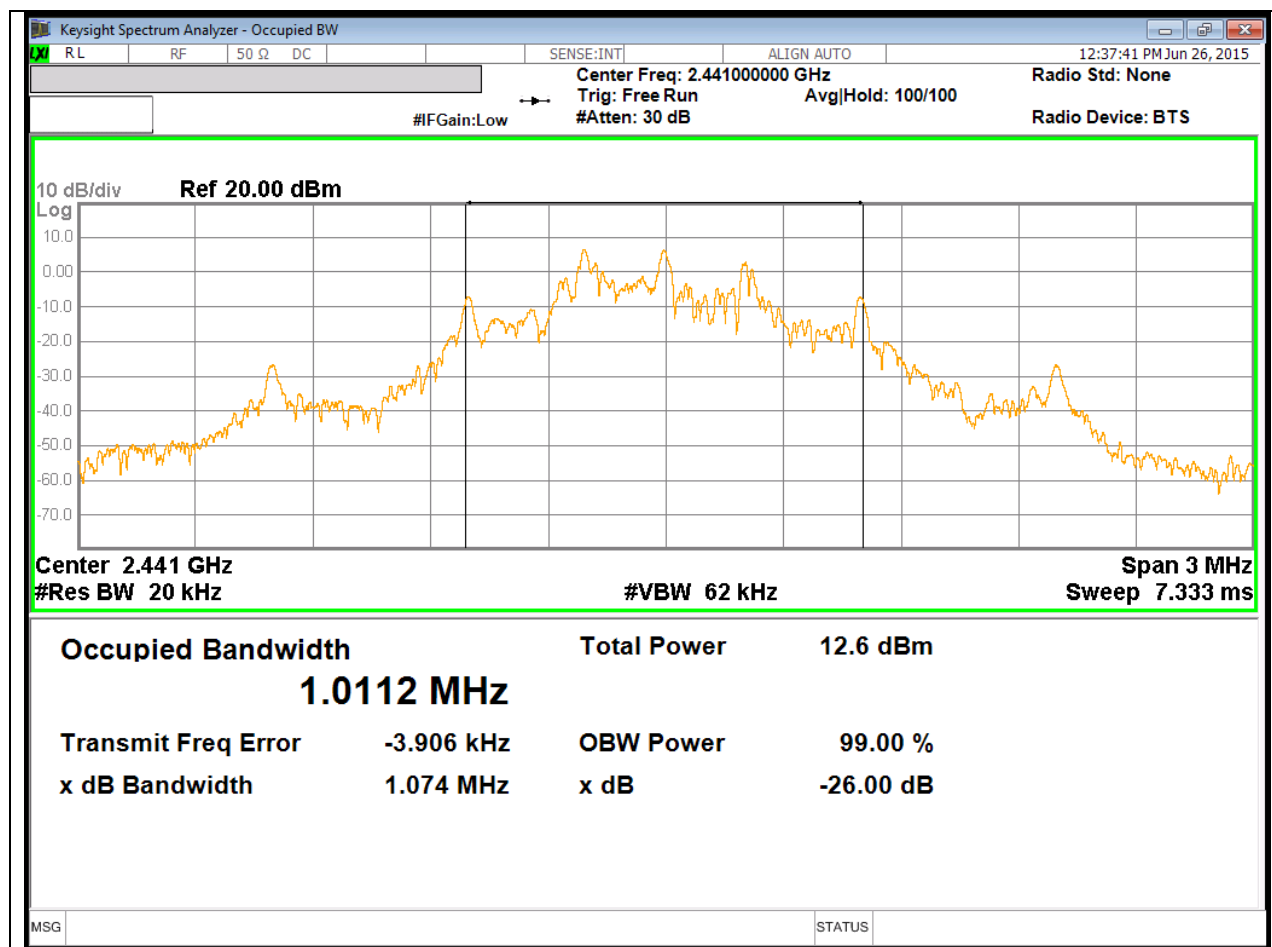
Channel	Frequency [MHz]	99% Bandwidth [MHz]	26 dB Bandwidth [MHz]
Low	2402	1.011	1.011
Mid	2441	1.011	1.011
High	2480	1.002	1.002
Worst		1.011	1.011

99% BANDWIDTH PLOTS

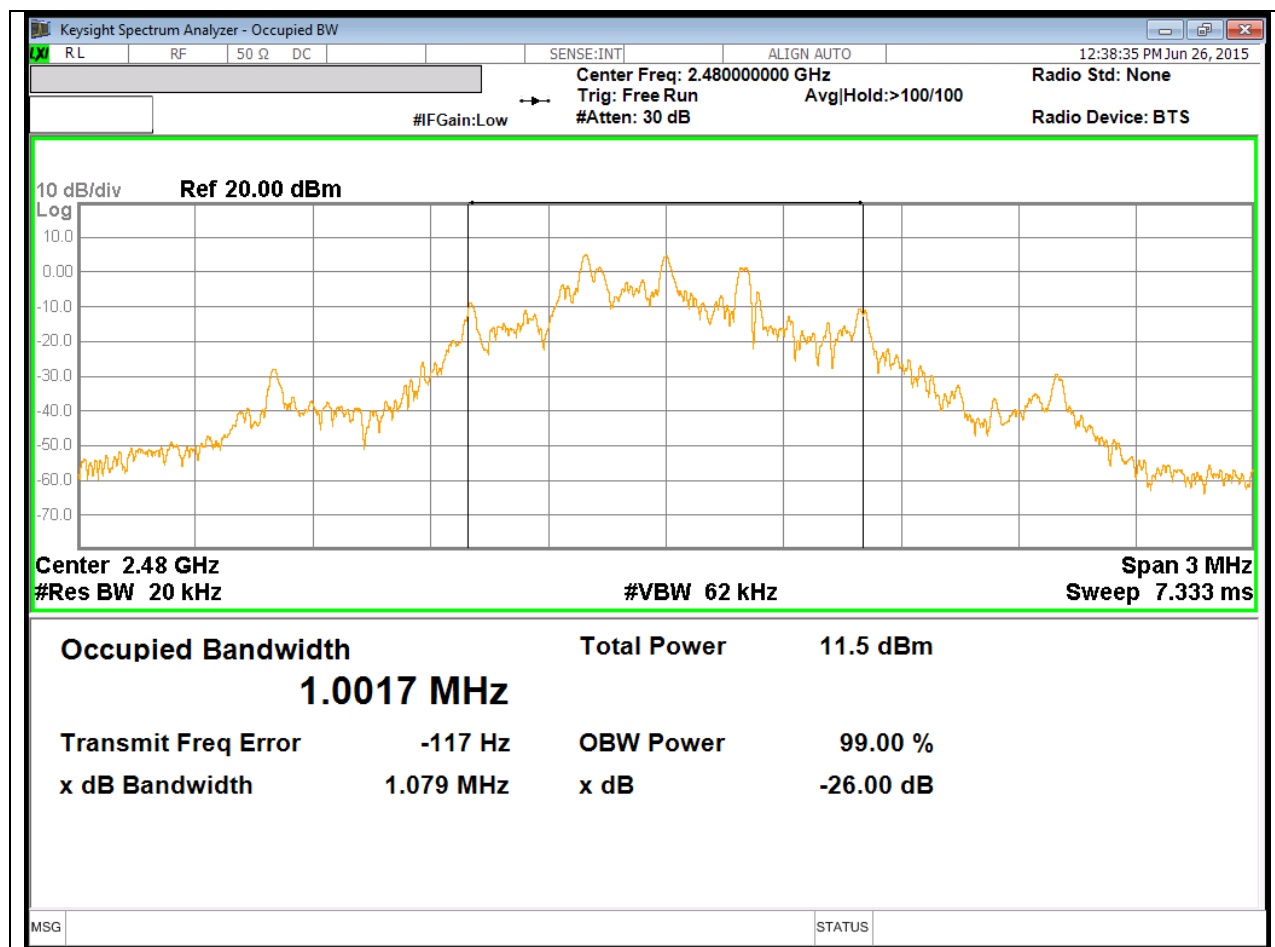
LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



7.2. TRANSMITTER RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.10: 2009

LIMIT

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.

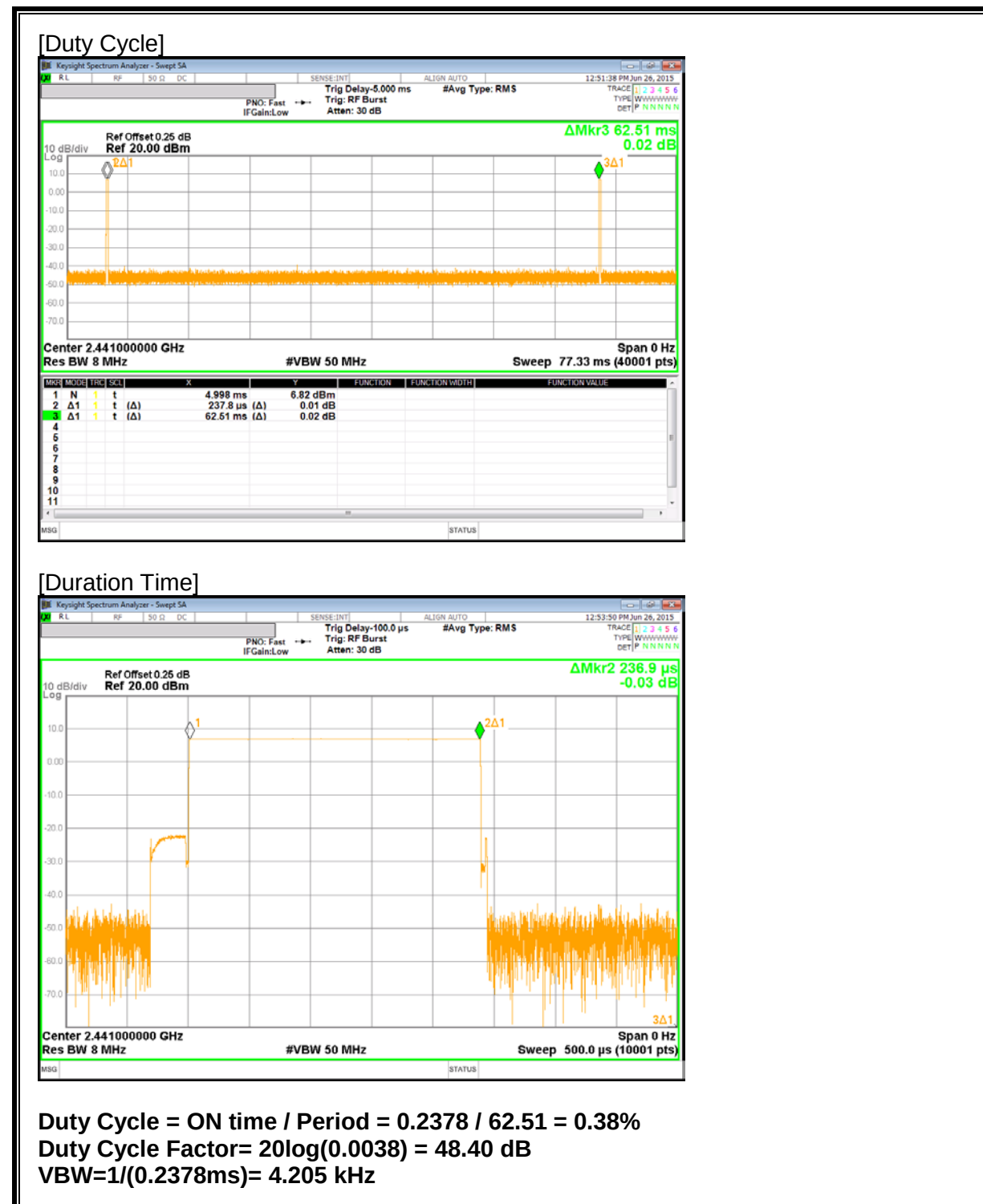
(e) As shown in Sec. 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under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

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (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
UL SUWON LAB
Chamber 2

Project #: 15K21155
Report #: 15K21155
Date & Time: 2015-07-04
Test Engr: Steven.Kim

Company: Samsung
EUT Description: GSM/WCDMA/LTE Phone + Bluetooth/BLE, DTS/UNII a/b/g/n/ac, NFC and ANT+
Test Configuration : X POSITION
Type of Test: FCC
Mode of Operation: Transmitting : ANT+ mode

M% = $((t1+t2+t3+...)/T) * 66.83\%$ = 0.38%

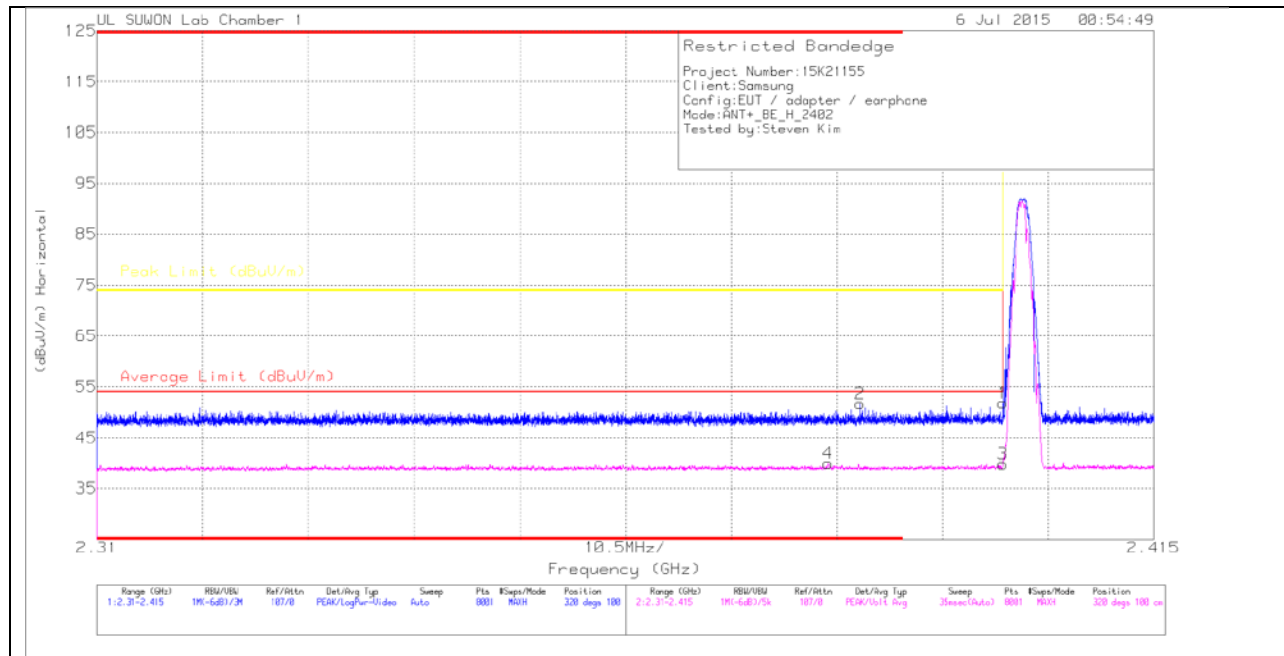
Av Reading = Pk Reading + $20 \log(M\%)$
 $20 * \log(M\%) = -48.40$

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)	Av Margin (dB)	Pol (H/V)	Az (Deg)	Height (Meter)
Low channel														
2402.00	81.42	33.02	32.00	-27.01	0.00	86.41	38.01	114.00	94.00	-27.59	-55.99	3mV	0.00	1.00
2402.00	91.40	43.00	32.00	-27.01	0.00	96.39	47.99	114.00	94.00	-17.61	-46.01	3mH	0.00	2.00
Mid channel														
2442.00	82.48	34.08	32.00	-27.01	0.00	87.47	39.07	114.00	94.00	-26.53	-54.93	3mV	0.00	1.00
2442.00	90.36	41.96	32.00	-27.01	0.00	95.35	46.95	114.00	94.00	-18.65	-47.05	3mH	0.00	2.00
High channel														
2480.00	84.52	36.12	32.00	-27.01	0.00	89.51	41.11	114.00	94.00	-24.49	-52.89	3mV	0.00	1.00
2480.00	91.25	42.85	32.00	-27.01	0.00	96.24	47.84	114.00	94.00	-17.76	-46.16	3mH	0.00	2.00

AVG VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

7.2.3. TRANSMITTER RESTRICTED BAND EDGES

BANDEDGE (LOW CHANNEL, HORIZONTAL)



HORIZONTAL DATA

TRACE MARKERS

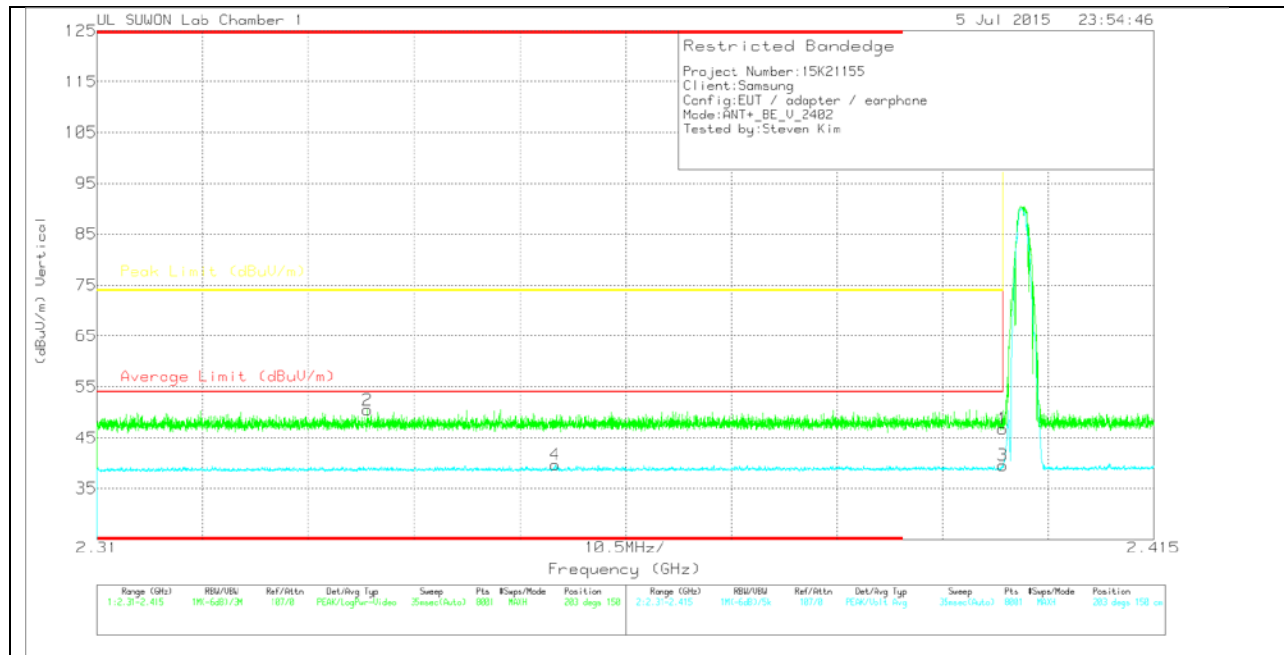
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2_10 dB	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4	42.78	Pk	31.8	-22.8	51.78	-	-	74	-22.22	320	100	H
2	* 2.386	42.67	Pk	31.8	-22.8	51.67	-	-	74	-22.33	320	100	H
3	2.4	30.78	VB1T	31.8	-22.8	39.78	54	-14.22	-	-	320	100	H
4	* 2.383	30.9	VB1T	31.8	-22.8	39.9	54	-14.1	-	-	320	100	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

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2_10 dB	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	2.4	37.74	Pk	31.8	-22.8	46.74	-	-	74	-27.26	203	150	V
2	* 2.337	41.66	Pk	31.7	-22.9	50.46	-	-	74	-23.54	203	150	V
3	2.4	30.55	VB1T	31.8	-22.8	39.55	54	-14.45	-	-	203	150	V
4	* 2.356	30.76	VB1T	31.7	-22.8	39.66	54	-14.34	-	-	203	150	V

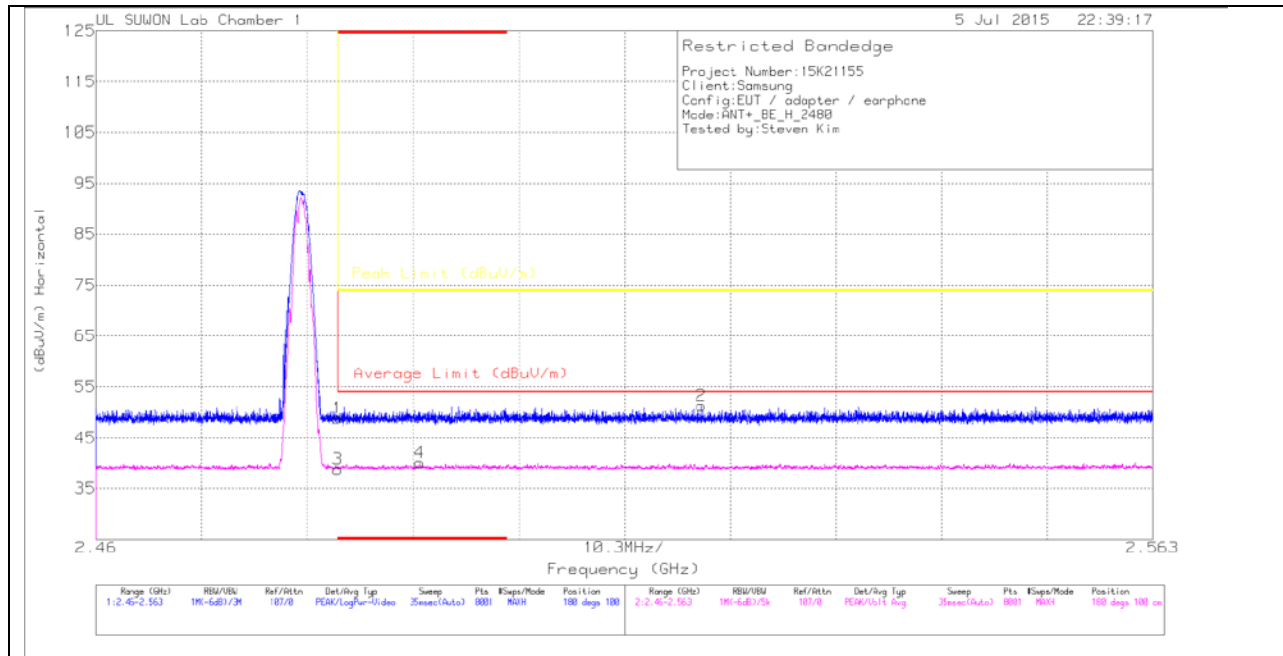
* - indicates frequency in CFR15.205/IC7.2.2 Restricted Band

Pk - Peak detector

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

AUTHORIZED BANDEDGE (HIGH CHANNEL)

HORIZONTAL PEAK AND AVERAGE PLOT



HORIZONTAL DATA

TRACE MARKERS

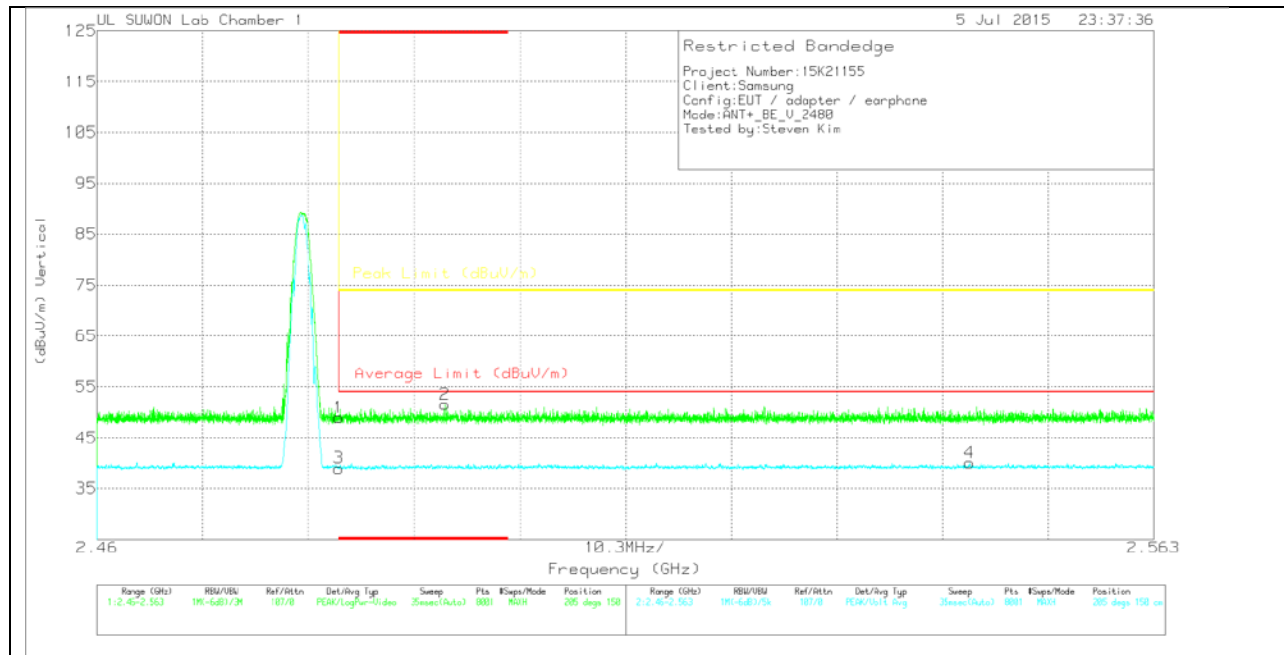
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2_10 dB	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	39.47	Pk	32	-22.6	48.87	-	-	74	-25.13	180	100	H
2	2.519	41.9	Pk	32	-22.6	51.3	-	-	74	-22.7	180	100	H
3	* 2.484	29.45	VB1T	32	-22.6	38.85	54	-15.15	-	-	180	100	H
4	* 2.492	30.67	VB1T	32	-22.6	40.07	54	-13.93	-	-	180	100	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

VERTICAL PEAK AND AVERAGE PLOT



VERTICAL DATA

TRACE MARKERS

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	3117(0016 8717)_150 619	Path_2_10 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	39.6	Pk	32	-22.6	49	-	-	74	-25	205	150	V
2	* 2.494	42.18	Pk	32	-22.6	51.58	-	-	74	-22.42	205	150	V
3	* 2.484	29.61	VB1T	32	-22.6	39.01	54	-14.99	-	-	205	150	V
4	2.545	30.61	VB1T	32	-22.6	40.01	54	-13.99	-	-	205	150	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
UL SUWON LAB
Chamber 2

Project #: 15K21155
Report #: 15K21155
Date & Time: 2015-07-04
Test Engr: Steven.Kim

Company: Samsung
EUT Description: GSM/WCDMA/LTE Phone + Bluetooth/BLE, DTS/UNII a/b/g/n/ac, NFC and ANT+
Test Configuration: X POSITION
Type of Test: FCC
Mode of Operation: Transmitting : ANT+ mode

M% = ((t1+t2+t3+...)/T) * 66.83% = 0.38%

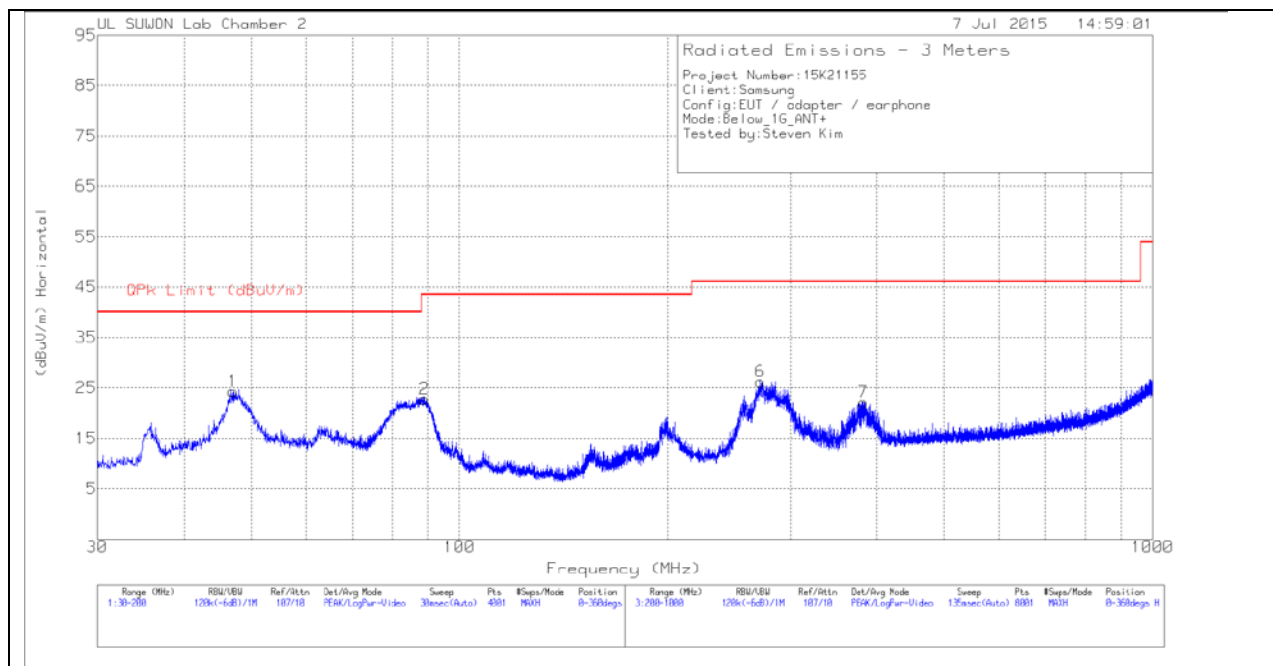
Av Reading = Pk Reading + 20*log(M%)
20 * log (M%) = -48.40

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	36.48	27.71	35.00	-25.70	0.00	45.78	37.01	74.00	54.00	-28.22	-16.99	3mV	0.00	1.00
4804.00	37.58	27.84	35.00	-25.70	0.00	46.88	37.14	74.00	54.00	-27.12	-16.86	3mH	0.00	2.00
Mid channel														
4884.00	36.25	27.41	35.00	-25.70	0.00	45.55	36.71	74.00	54.00	-28.45	-17.29	3mV	0.00	1.00
4884.00	36.15	27.38	35.00	-25.70	0.00	45.45	36.68	74.00	54.00	-28.55	-17.32	3mH	0.00	2.00
High channel														
4960.00	36.15	27.40	35.00	-25.70	0.00	45.45	36.70	74.00	54.00	-28.55	-17.30	3mV	0.00	1.00
4960.00	36.25	28.12	35.00	-25.70	0.00	45.55	37.42	74.00	54.00	-28.45	-16.58	3mH	0.00	2.00

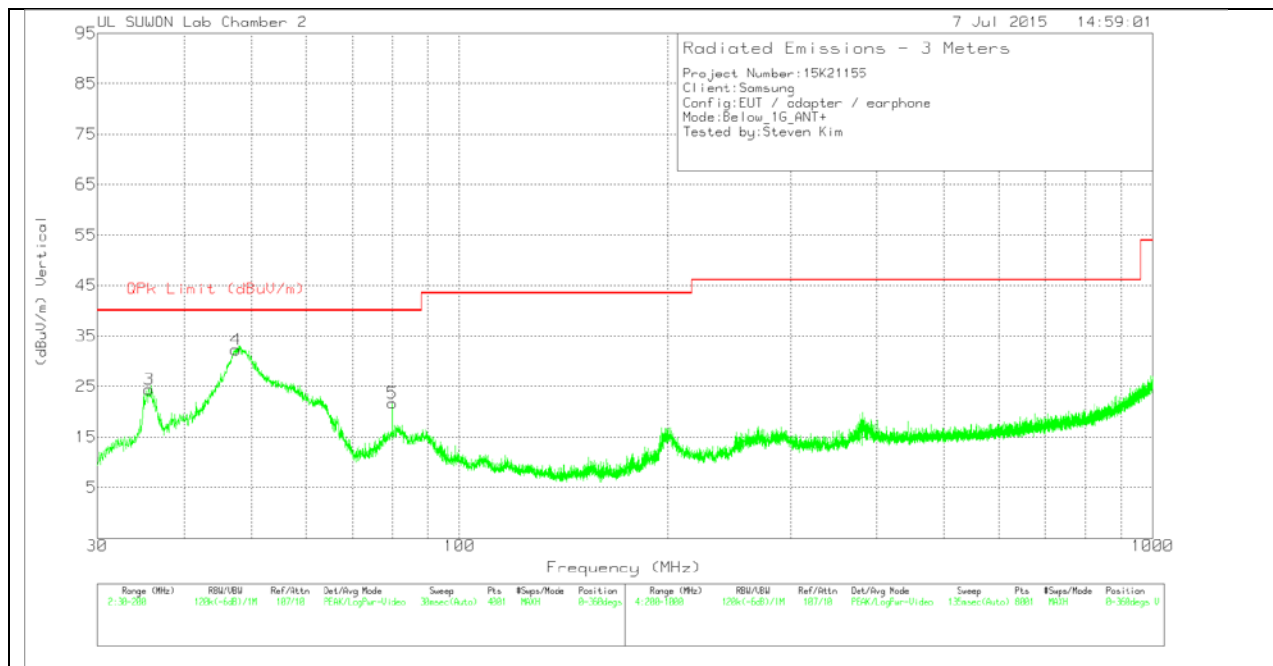
AVG VB=1/Ton, Voltage Averaging Max Hold where: Ton is the duration of the packet

7.2.4. SPURIOUS BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (HORIZONTAL)



VERTICAL PLOT



BELOW 1 GHz TABLE

TRACE MARKERS

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	VULB9163-749	Below_1G	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	47.085	41.09	Pk	14	-30.8	24.29	40	-15.71	0-360	400	H
2	88.99	44.1	Pk	9.3	-30.6	22.8	43.52	-20.72	0-360	400	H
3	35.61	44.13	Pk	11	-30.7	24.43	40	-15.57	0-360	100	V
4	47.5525	49.06	Pk	14	-30.8	32.26	40	-7.74	0-360	100	V
5	79.98	45.16	Pk	7.1	-30.6	21.66	40	-18.34	0-360	100	V
6	271.7	43.43	Pk	12.9	-30.1	26.23	46.02	-19.79	0-360	101	H
7	382.6	36.93	Pk	15	-29.8	22.13	46.02	-23.89	0-360	101	H

Pk - Peak detector

8. AC POWER LINE CONDUCTED EMISSIONS

LIMITS

FCC §15.207 (a)

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.

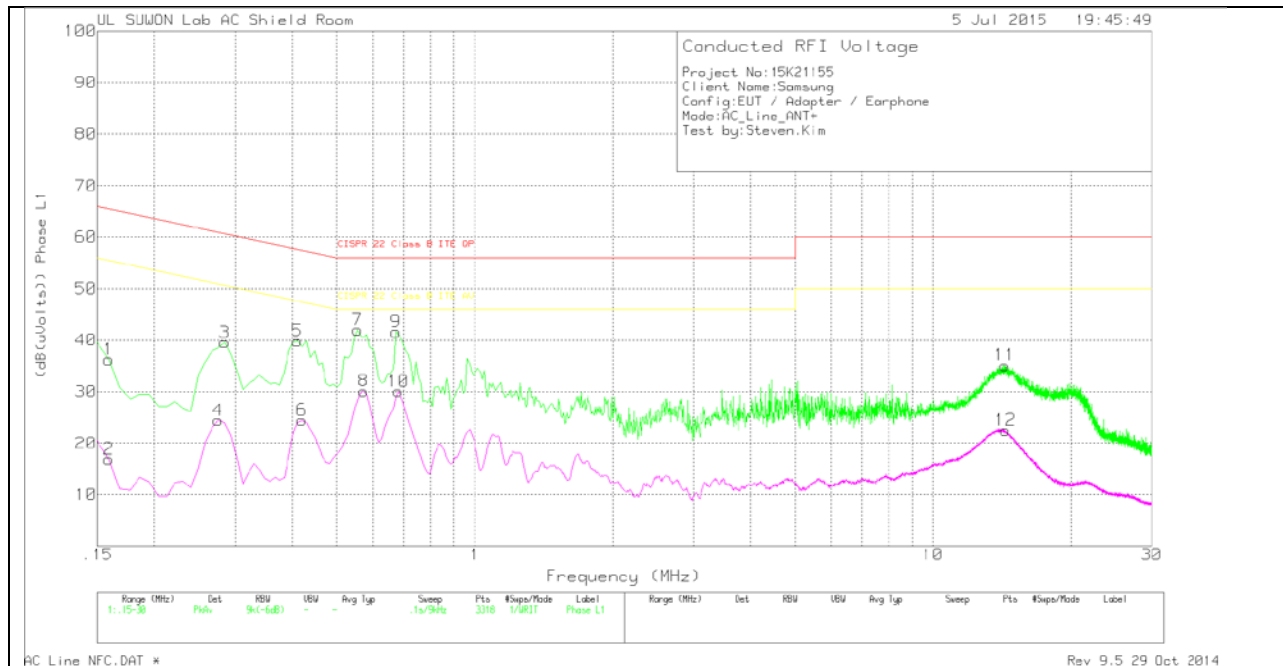
TEST PROCEDURE

ANSI C63.10 - 2009

RESULTS

6 WORST EMISSIONS

LINE 1 PLOT



LINE 1 RESULTS

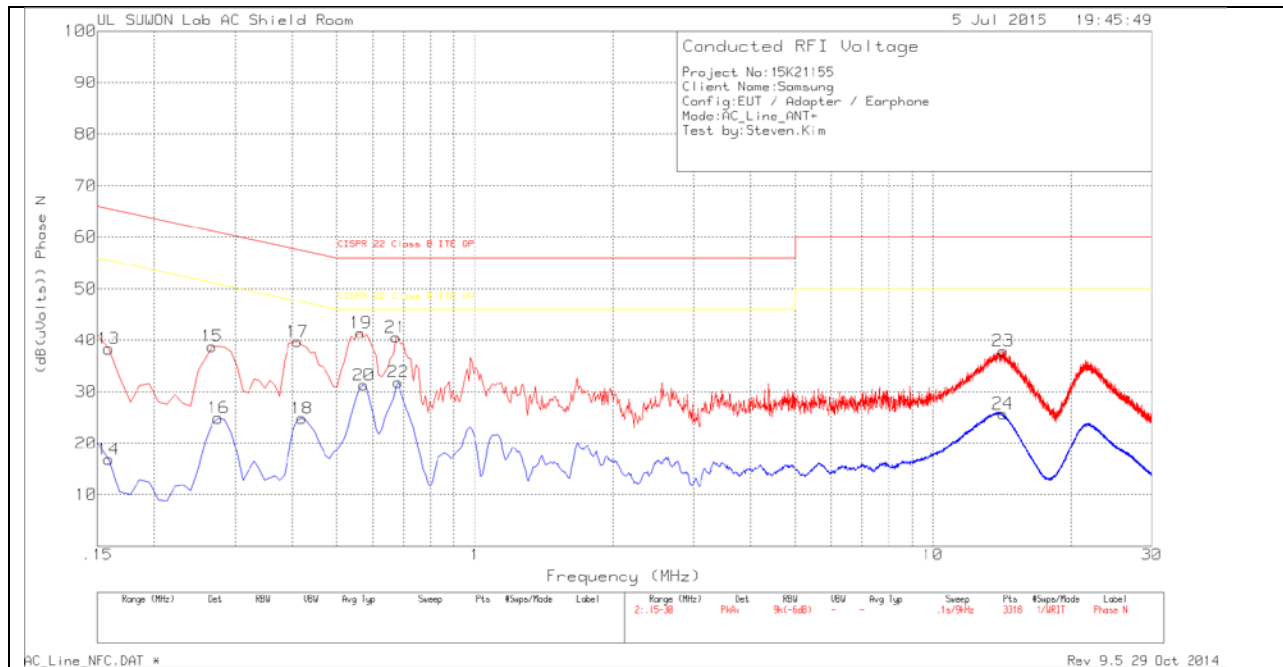
TRACE MARKERS

Phase L1 .15 - 30MHz										
Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_w ith ex-cord_L1	CE Shield Room	Corrected Reading (dBuV)	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
1	.159	26.24	Pk	10	0	36.24	65.52	-29.28	-	-
2	.159	6.9	Av	10	0	16.9	-	-	55.52	-38.62
3	.285	29.78	Pk	9.8	0	39.58	60.67	-21.09	-	-
4	.276	14.61	Av	9.8	0	24.41	-	-	50.94	-26.53
5	.411	29.76	Pk	10.1	0	39.86	57.63	-17.77	-	-
6	.42	14.38	Av	10.1	0	24.48	-	-	47.45	-22.97
7	.555	31.89	Pk	10.1	0	41.99	56	-14.01	-	-
8	.573	20.02	Av	10.1	0	30.12	-	-	46	-15.88
9	.672	31.52	Pk	10.1	0	41.62	56	-14.38	-	-
10	.681	19.98	Av	10.1	0	30.08	-	-	46	-15.92
11	14.352	24.83	Pk	10.1	.2	35.13	60	-24.87	-	-
12	14.388	12.21	Av	10.1	.2	22.51	-	-	50	-27.49

Pk - Peak detector

Av - Average detection

LINE 2 PLOT



LINE 2 RESULTS

TRACE MARKERS

Phase N .15 - 30MHz

Marker	Frequency (MHz)	Meter Reading (dBuV)	Det	101837_w ith ex-cord_N	CE Shield Room	Corrected Reading (dBuV)	CISPR 22 Class B ITE QP	Margin (dB)	CISPR 22 Class B ITE AV	Margin (dB)
13	.159	28.32	Pk	10	0	38.32	65.52	-27.2	-	-
14	.159	6.86	Av	10	0	16.86	-	-	55.52	-38.66
15	.267	29.09	Pk	9.7	0	38.79	61.21	-22.42	-	-
16	.276	15.07	Av	9.8	0	24.87	-	-	50.94	-26.07
17	.411	29.62	Pk	10.1	0	39.72	57.63	-17.91	-	-
18	.42	14.69	Av	10.1	0	24.79	-	-	47.45	-22.66
19	.564	31.34	Pk	10.1	0	41.44	56	-14.56	-	-
20	.573	21.15	Av	10.1	0	31.25	-	-	46	-14.75
21	.672	30.57	Pk	10	0	40.57	56	-15.43	-	-
22	.681	21.83	Av	10	0	31.83	-	-	46	-14.17
23	14.226	27.41	Pk	10.3	.2	37.91	60	-22.09	-	-
24	14.217	15.21	Av	10.3	.2	25.71	-	-	50	-24.29

Pk - Peak detector

Av - Average detection