



**FCC CFR47 PART 15 SUBPART C
INDUSTRY CANADA RSS-210 ISSUE 8**

**BLUETOOTH LOW ENERGY
CERTIFICATION TEST REPORT**

FOR

**802.11 B/G/N 1X1 HT20, + BT4.0 +BASIC RATES +HS+ GSM850/1900 &
WCDMA850MHZ BAR PHONE**

MODEL NUMBER: GT-S5312B

FCC ID: A3LGTS5312B

REPORT NUMBER: 13U14924-3

ISSUE DATE: APRIL 12, 2013

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
--		Initial Issue	

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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: 802.11 B/G/N 1X1 HT20, + BT4.0 +BASIC RATES +HS+
GSM850/1900 & WCDMA850MHZ BAR PHONE

MODEL: GT-S5312B

SERIAL NUMBER: KF-064-F (CONDUCTED) & KF-064-F (RADIATED)

DATE TESTED: APRIL 01 TO 11, 2013

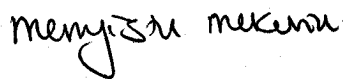
APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass

UL CCS 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 CCS 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 CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by UL CCS 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 CCS By:

Tested By:



PHILIP KIM
EMC SUPERVISOR
UL CCS

MENGISTU MEKURIA
EMC ENGINEER
UL CCS

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, 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 Benicia Street, Fremont, California, USA.

UL CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <http://www.ccsemc.com>.

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 1000 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 bar-style cell phone featuring 802.11b/g/n WLAN, Bluetooth, Bluetooth Low Energy, GPS and 2.4 GHz mobile hotspot capability.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum peak conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2402 - 2480	BT LE	9.60	9.12

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a PCB antenna, with a maximum gain of -5 dBi.

5.4. SOFTWARE AND FIRMWARE

The EUT driver software installed during testing was S5312B.010.

5.5. 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.

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
Power Adapter	Samsung	GT-S5312B	SC1C401VS/A	n/a
Headphones	Samsung	GT-S5312B	n/a	n/a

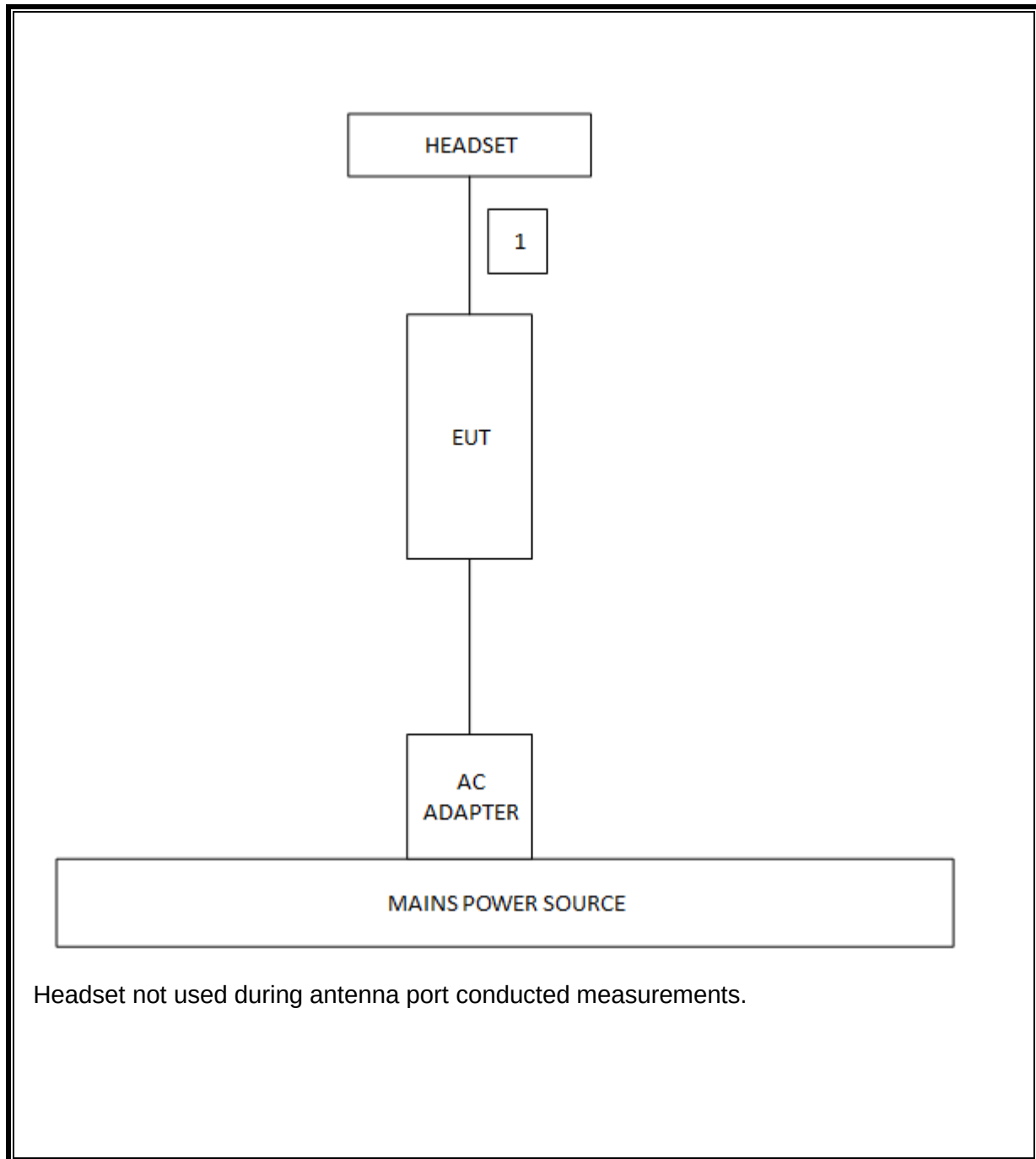
I/O CABLES

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB	1	USB	Shielded	1.6m	N/A
2	Headset	1	Audio	Shielded	1.5m	N/A

TEST SETUP

The EUT is a stand-alone unit that was tested in the worst case orientation and configuration, where applicable, during the tests. Test software exercised the radio.

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	Asset	Cal Due
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C00986	3/22/2014
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01176	12/13/2013
Antenna, Horn, 18 GHz	ETS	3117	C01022	2/21/2014
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	10/22/2013
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00558	2/21/2014
Power Sensor, 18 GHz	Agilent / HP	8481A	N02781	9/24/2013
Power Meter	Agilent / HP	437B		8/9/2013
Reject Filter, 2.4-2.5 GHz	Micro-Tronics	BRM50702	N02685	CNR
Antenna, Bilog, 30MHz-1 GHz	Sunol Sciences	JB1	C01171	41683
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/08/13
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/14

7. ANTENNA PORT TEST RESULTS

7.1. 6 dB BANDWIDTH

LIMITS

FCC §15.247 (a) (2)

IC RSS-210 A8.2 (a)

The minimum 6 dB bandwidth shall be at least 500 kHz.

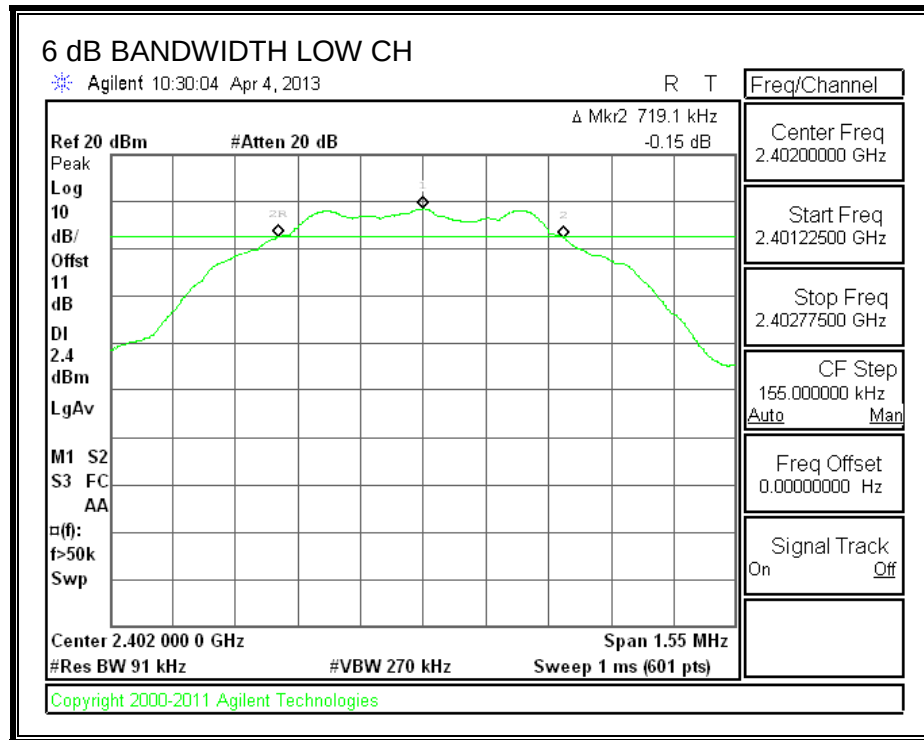
TEST PROCEDURE

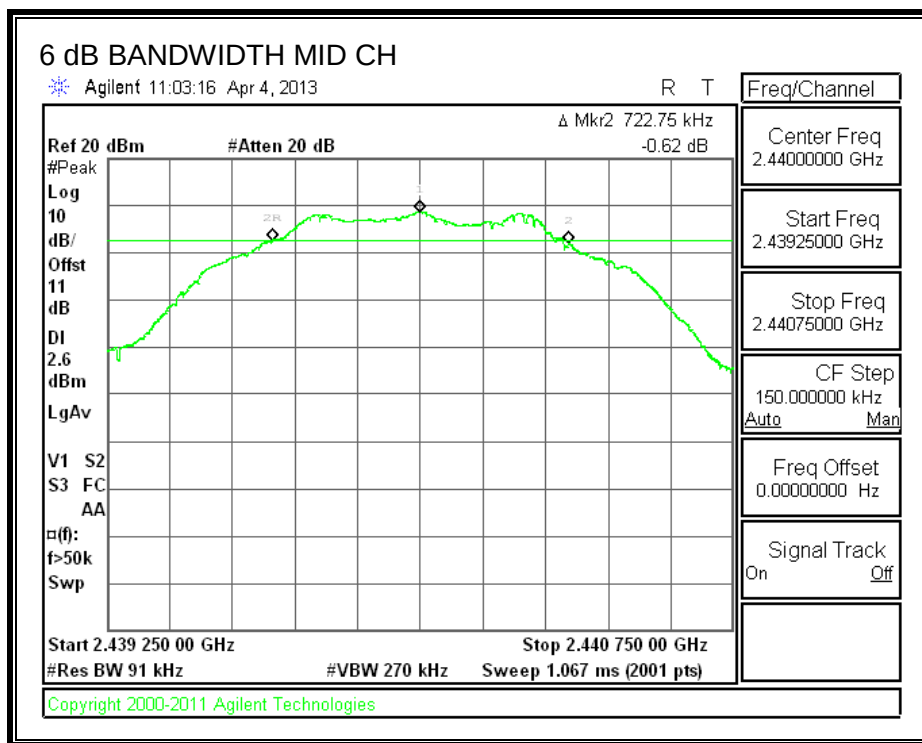
The transmitter output is connected to a spectrum analyzer. The RBW is set to 100 kHz and the VBW is set to 300 kHz. The sweep time is coupled.

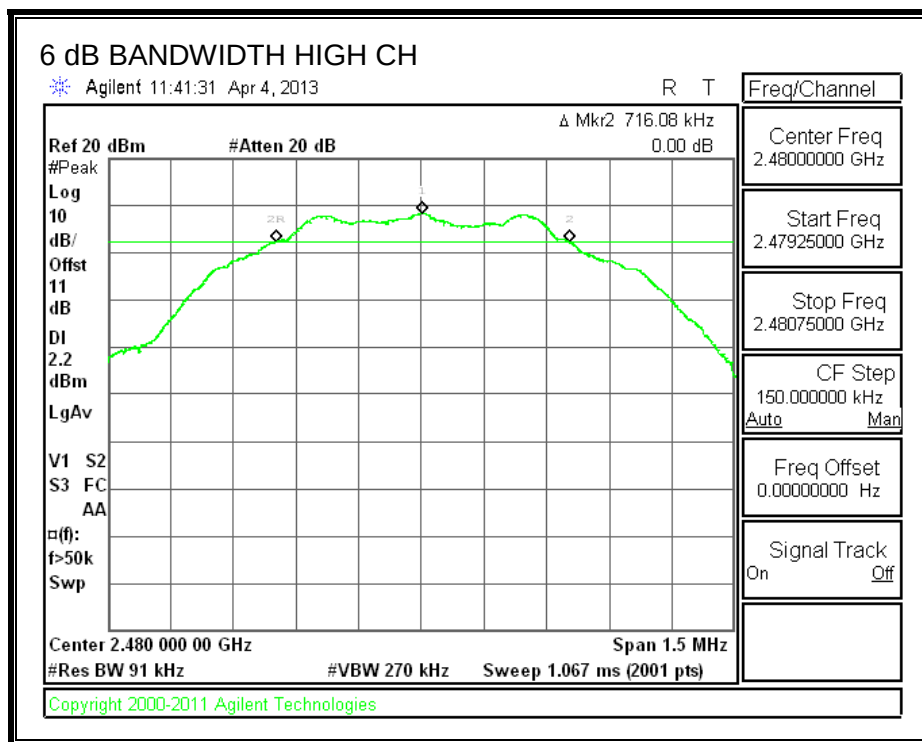
RESULTS

Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
Low	2402	0.7191	0.5
Middle	2440	0.7228	0.5
High	2480	0.7161	0.5

6 dB BANDWIDTH







7.2. 99% BANDWIDTH

LIMITS

None; for reporting purposes only.

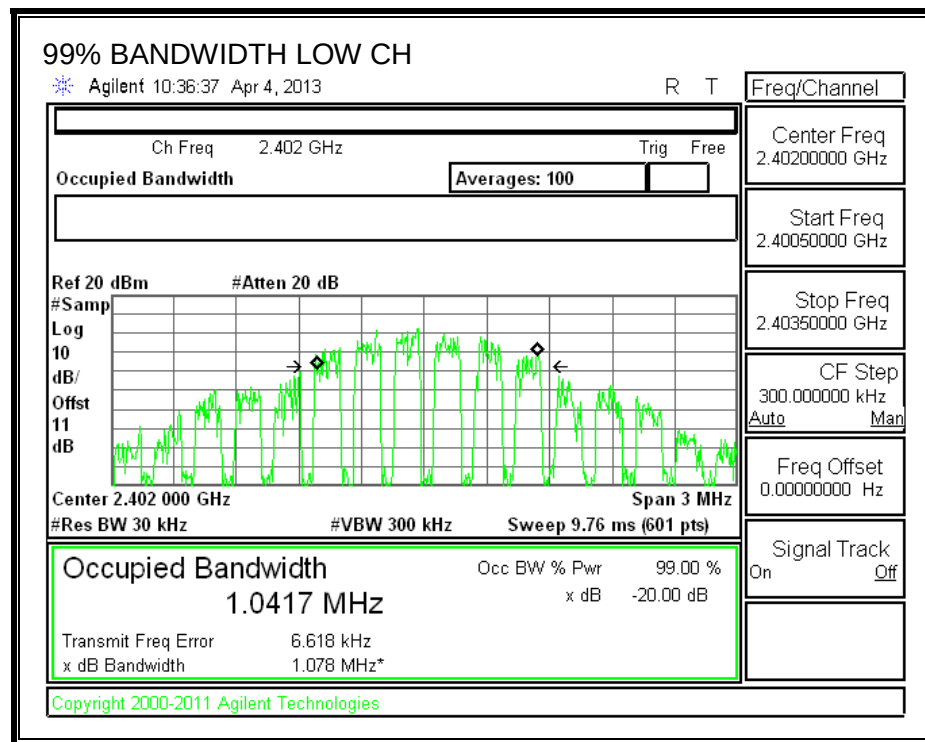
TEST PROCEDURE

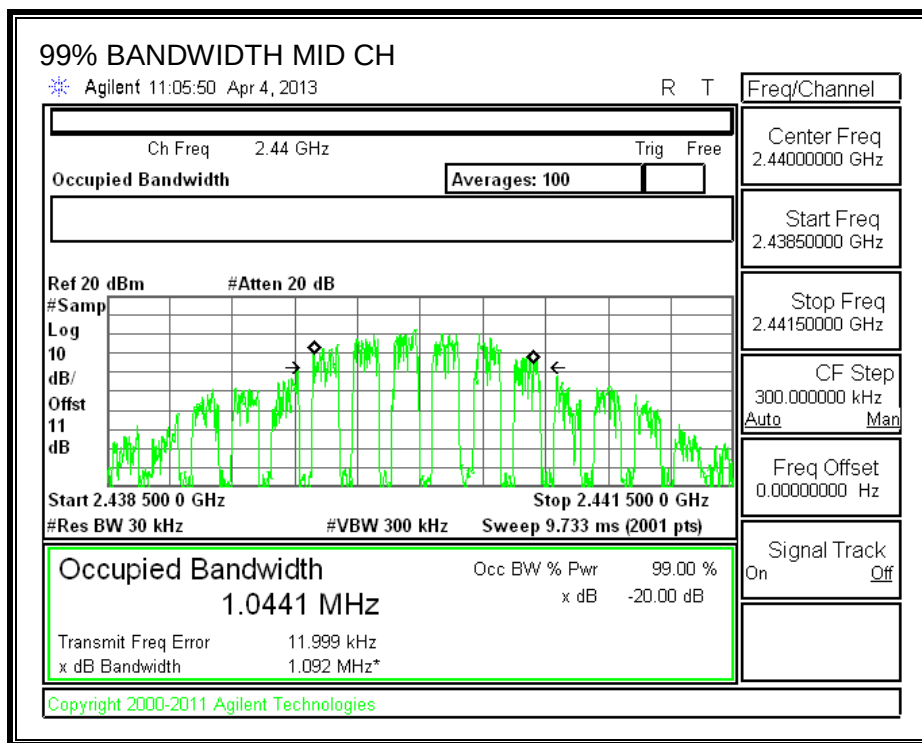
The transmitter output is connected to the spectrum analyzer. The RBW is set to 1% to 3% of the 99 % bandwidth and to 1% of the span. The VBW is set to 3 times the RBW. The sweep time is coupled. The spectrum analyzer internal 99% bandwidth function is utilized.

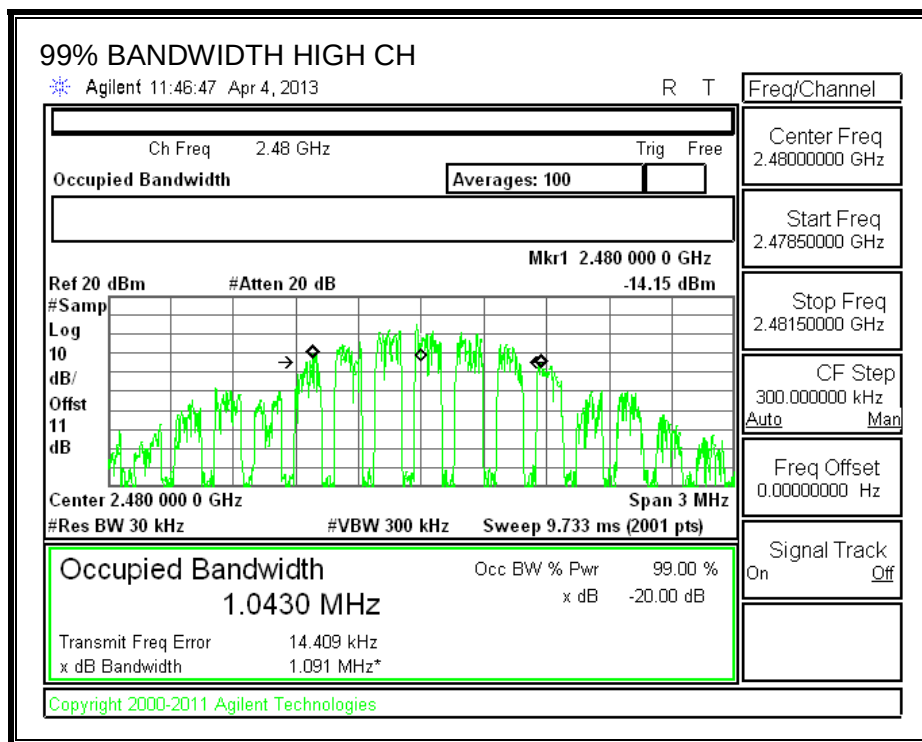
RESULTS

Channel	Frequency (MHz)	99% Bandwidth (MHz)
Low	2402	1.0417
Middle	2440	1.0441
High	2480	1.0430

99% BANDWIDTH







7.3. OUTPUT POWER

LIMITS

FCC §15.247 (b)

IC RSS-210 A8.4

The maximum antenna gain is less than or equal to 6 dBi, therefore the limit is 30 dBm.

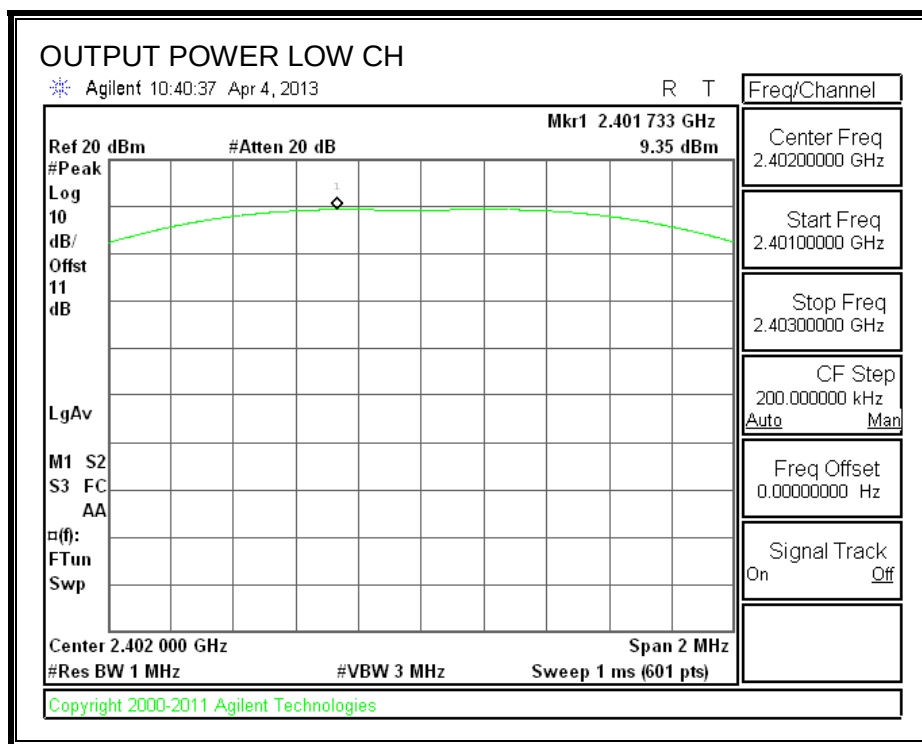
TEST PROCEDURE

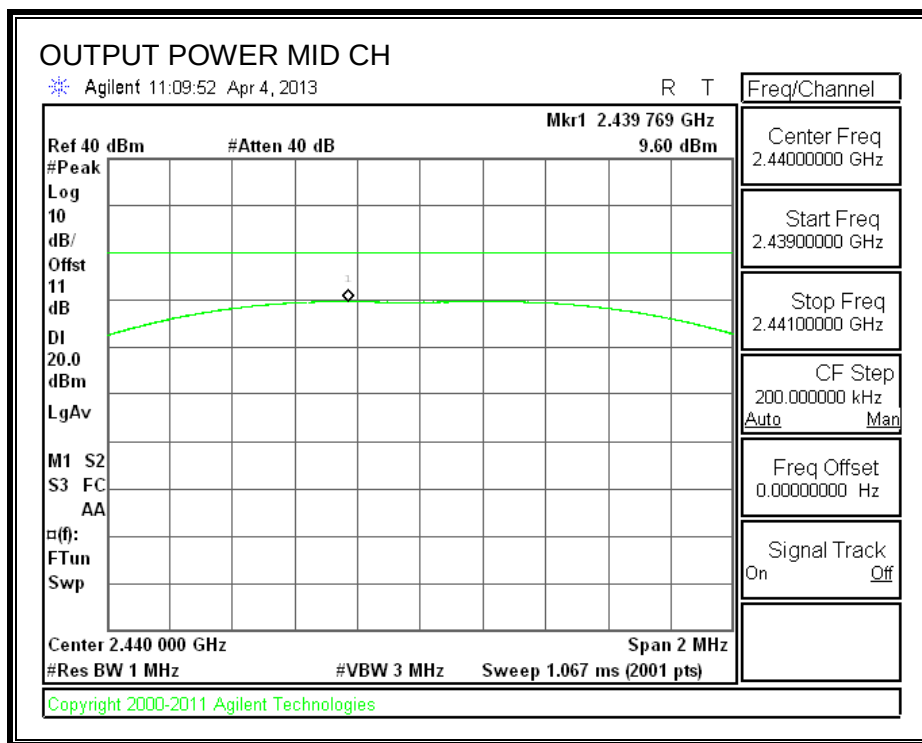
Peak power is measured using the Channel bandwidth Alternative peak output power procedure specified in "TCB Training for Devices covered under Scopes A1 - A4" by Joe Dichoso, May 2003.

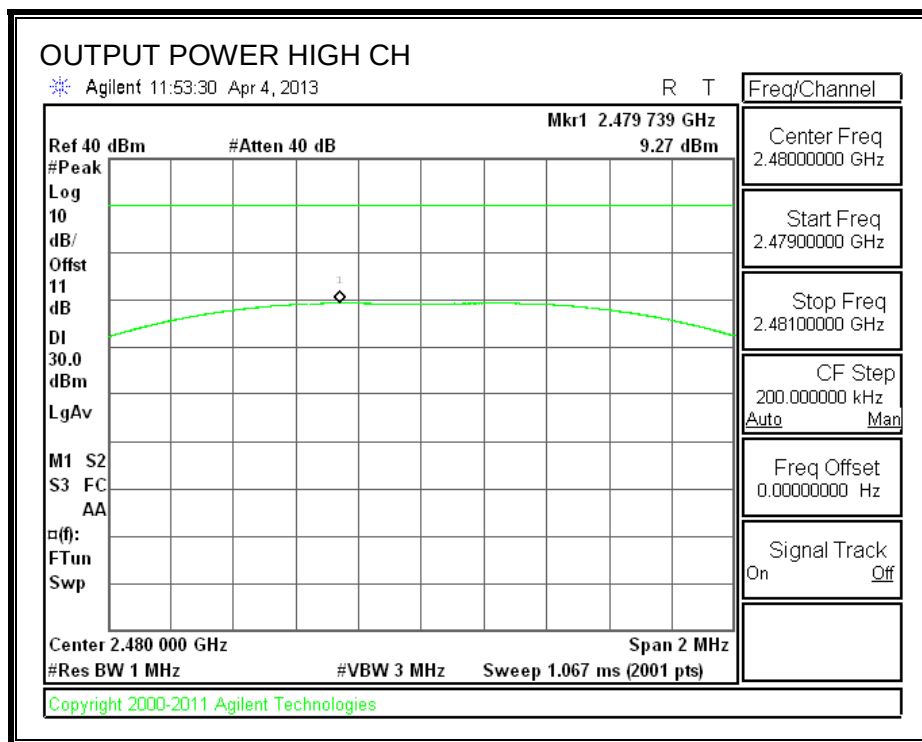
RESULTS

Channel	Frequency (MHz)	Peak Power Reading (dBm)	Limit (dBm)	Margin (dB)
Low	2402	9.350	30	-20.650
Middle	2440	9.600	30	-20.400
High	2480	9.270	30	-20.730

OUTPUT POWER







7.4. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247 (e)

IC RSS-210 A8.2 (b)

The power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

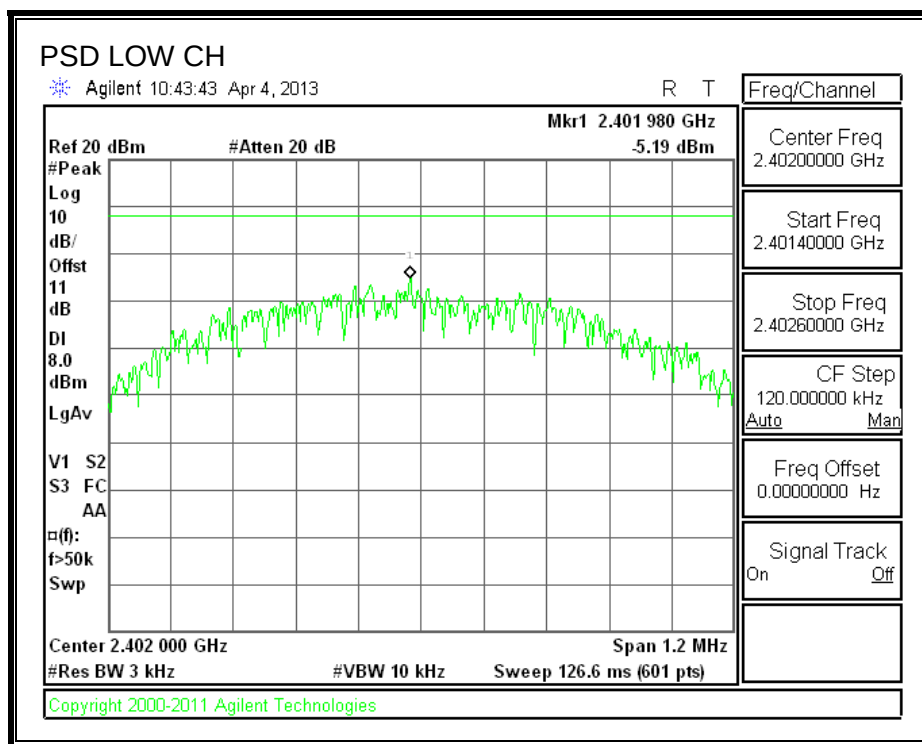
TEST PROCEDURE

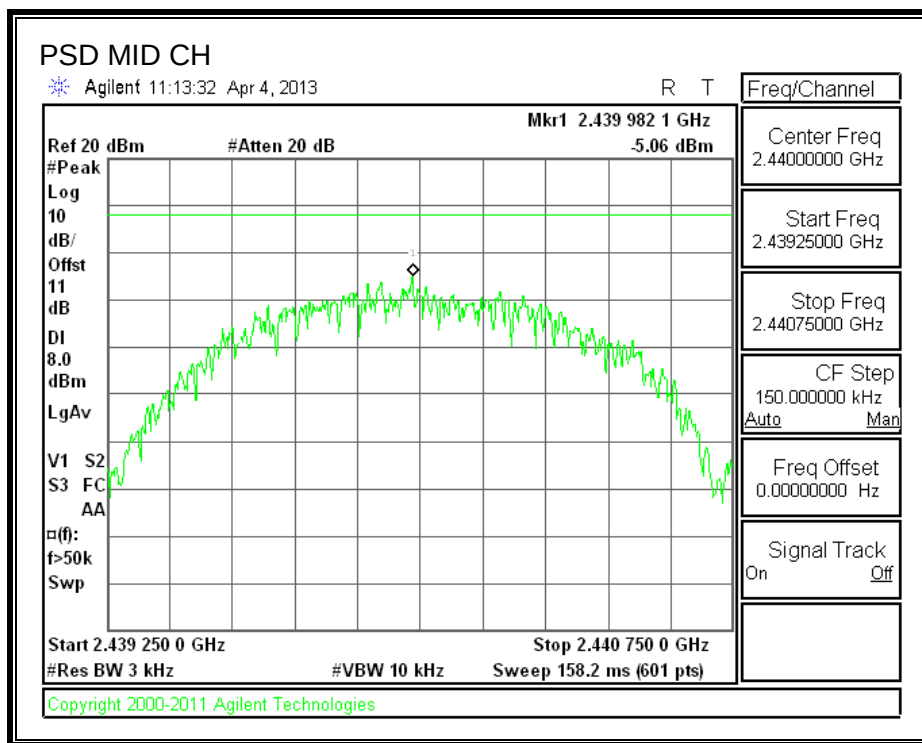
Output power was measured based on the use of a peak measurement, therefore the power spectral density was measured using PSD Option 1 in accordance with FCC document "Measurement of Digital Transmission Systems Operating under Section 15.247", March 23, 2005.

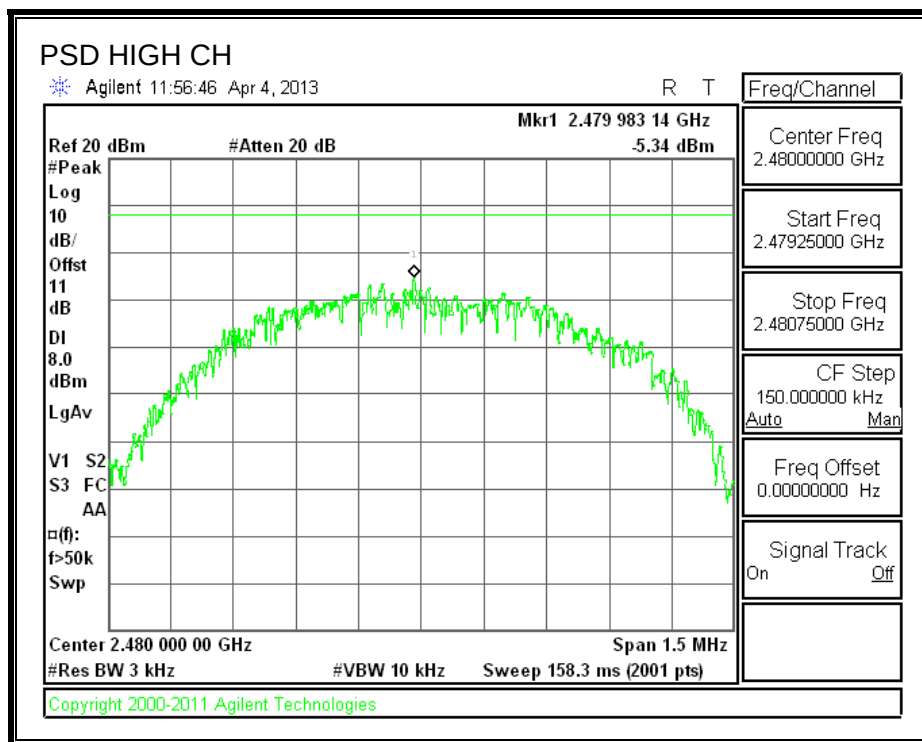
RESULTS

Channel	Frequency (MHz)	PSD (dBm)	Limit (dBm)	Margin (dB)
Low	2402	-5.19	8	-13.19
Middle	2440	-5.06	8	-13.06
High	2480	-5.34	8	-13.34

POWER SPECTRAL DENSITY







7.5. CONDUCTED SPURIOUS EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-210 A8.5

Output power was measured based on the use of a peak measurement, therefore the required attenuation is 20 dB.

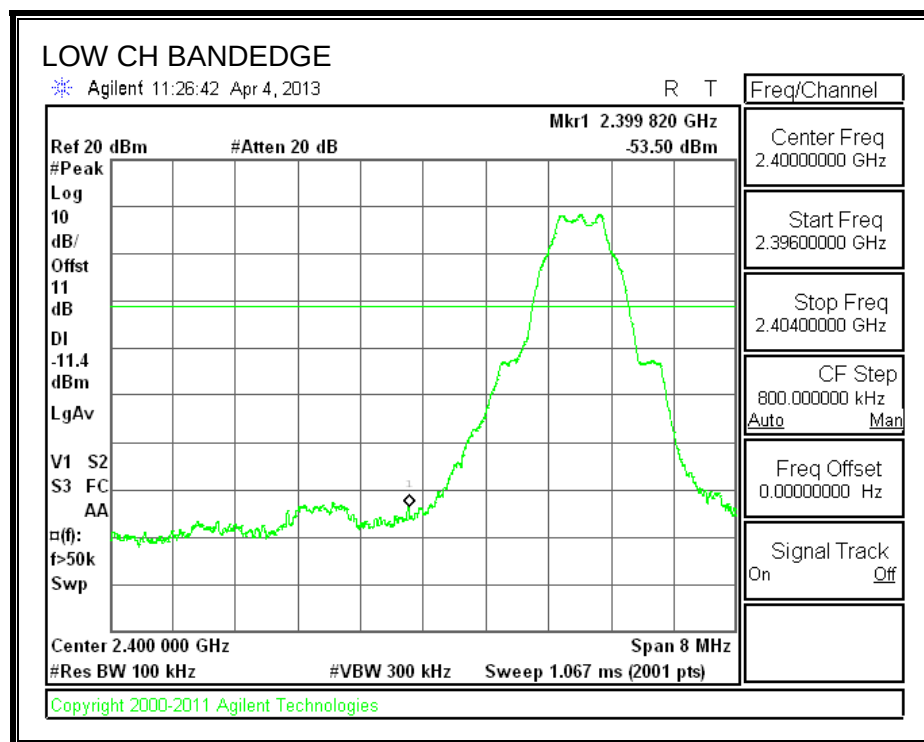
TEST PROCEDURE

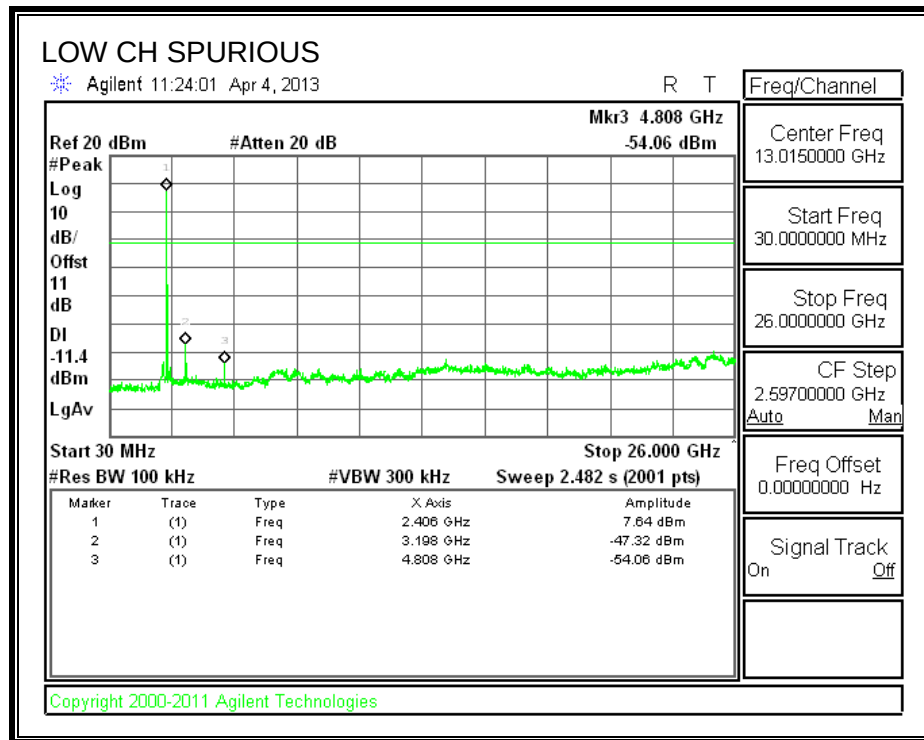
The transmitter output is connected to a spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels.

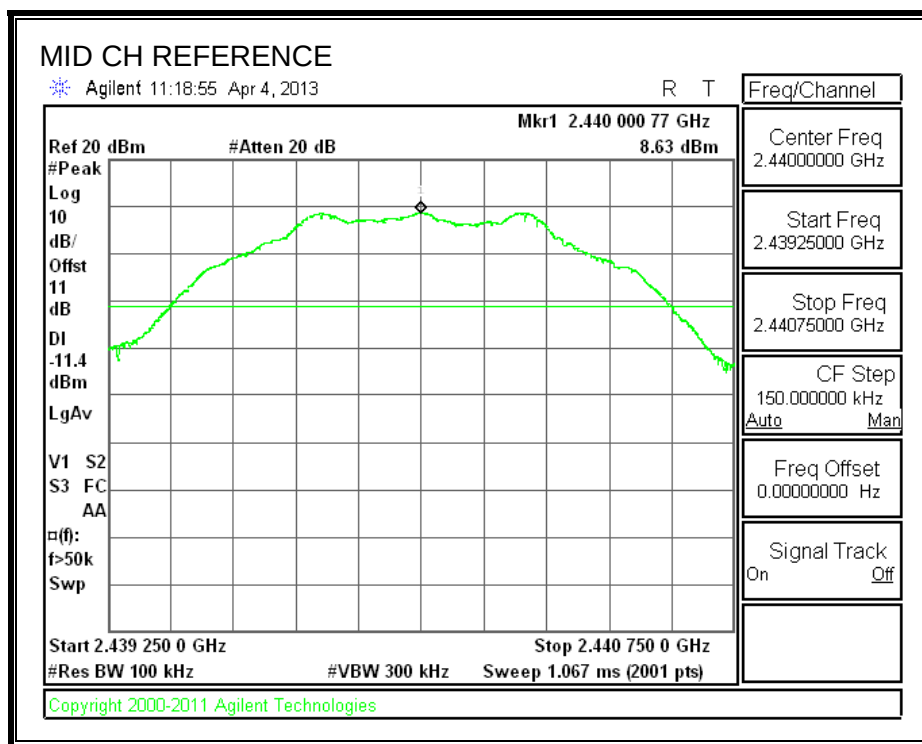
RESULTS

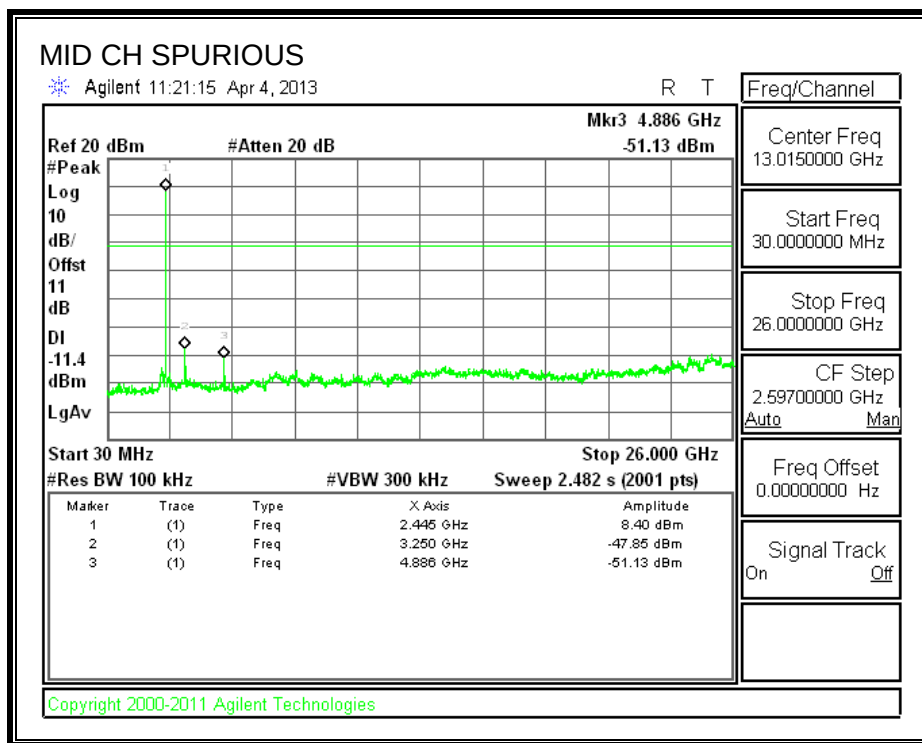
SPURIOUS EMISSIONS, LOW CHANNEL



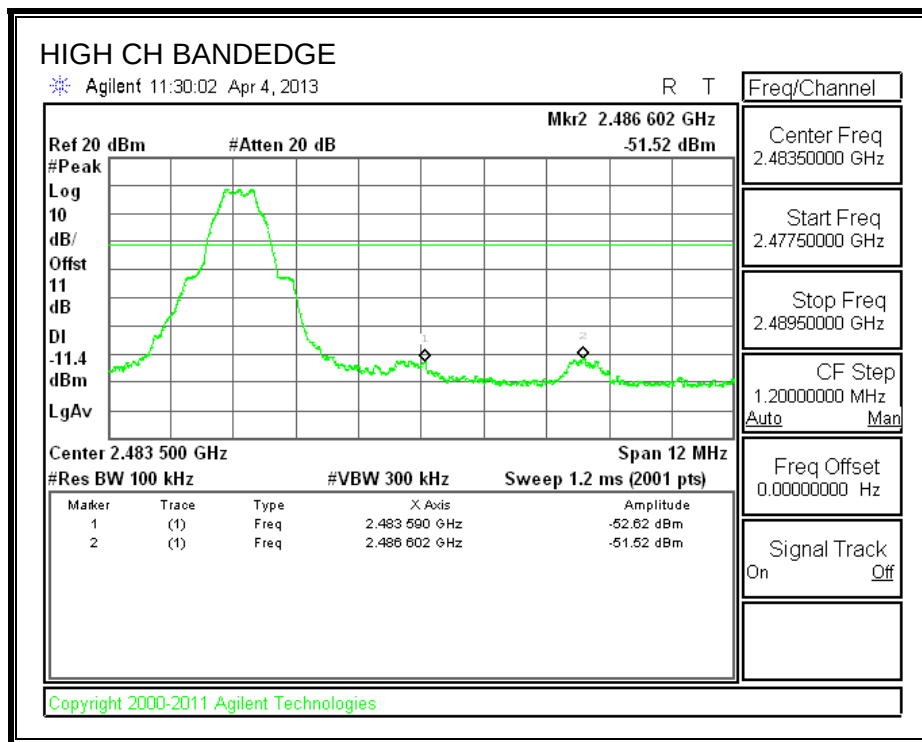


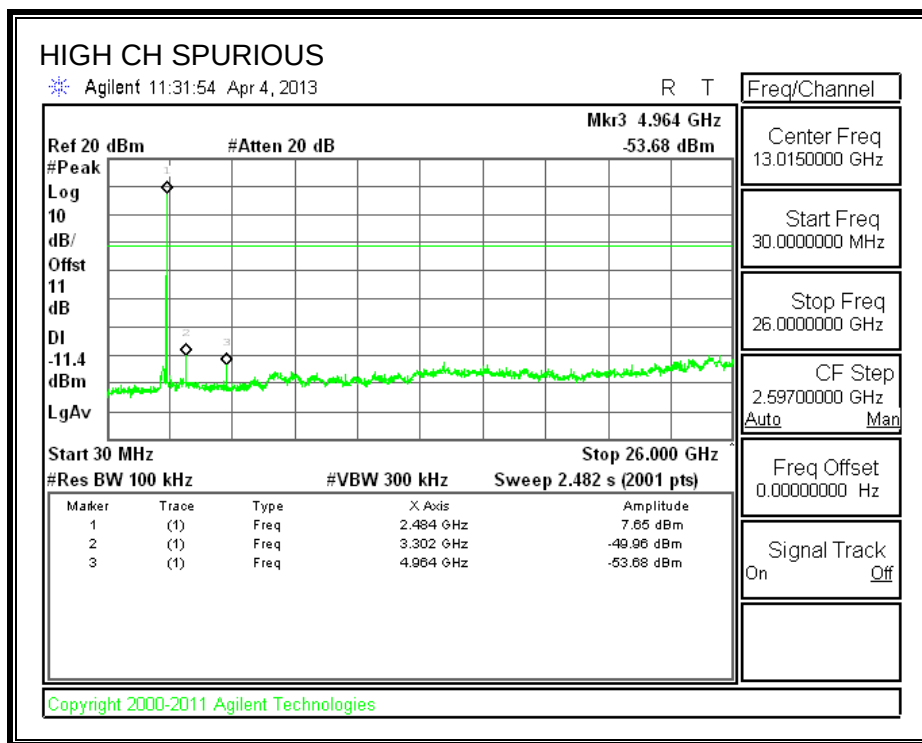
SPURIOUS EMISSIONS, MID CHANNEL





SPURIOUS EMISSIONS, HIGH CHANNEL





8. RADIATED TEST RESULTS

8.1. LIMITS AND PROCEDURE

LIMITS

FCC §15.205 and §15.209

IC RSS-210 Clause 2.6 (Transmitter)

IC RSS-GEN Clause 6 (Receiver)

Frequency Range (MHz)	Field Strength Limit (uV/m) at 3 m	Field Strength Limit (dBuV/m) at 3 m
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

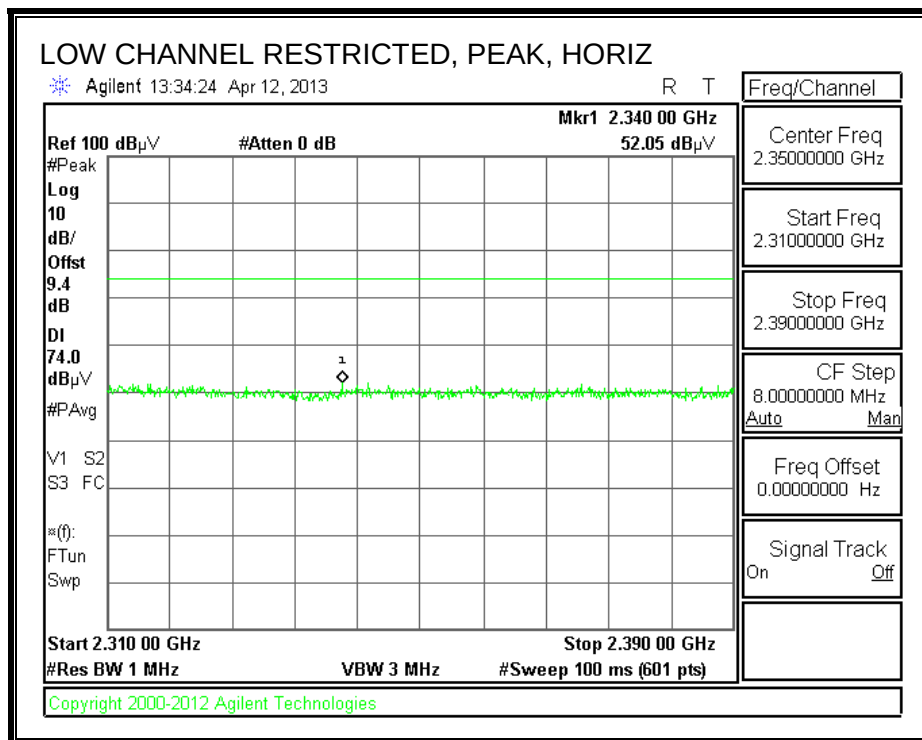
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

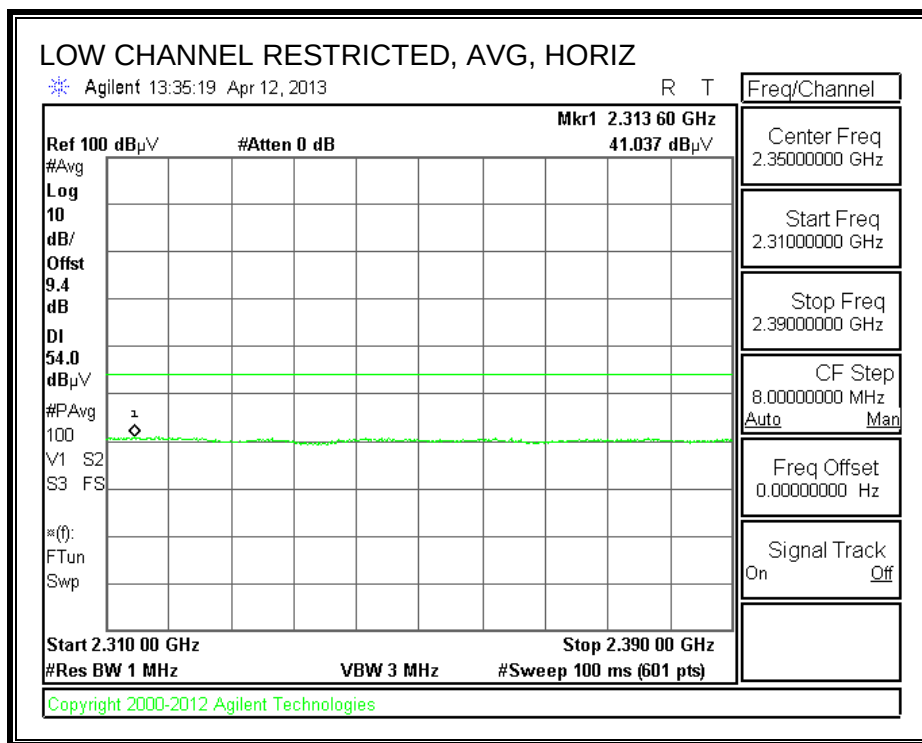
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

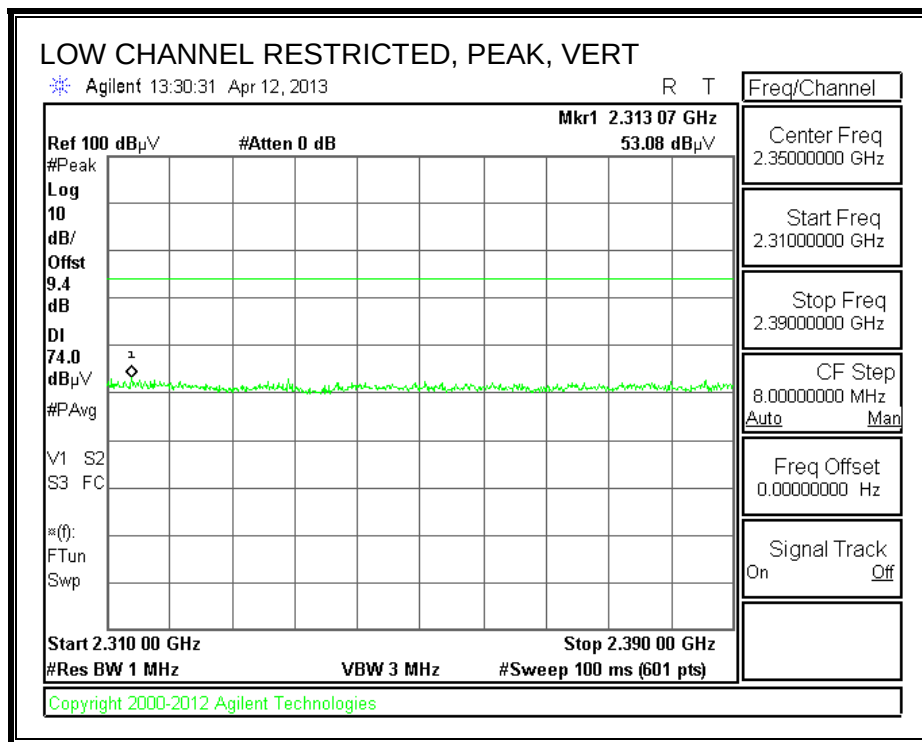
8.2. TX ABOVE 1 GHz FOR BLUETOOTH LOW ENERGY MODE IN THE 2.4 GHz BAND

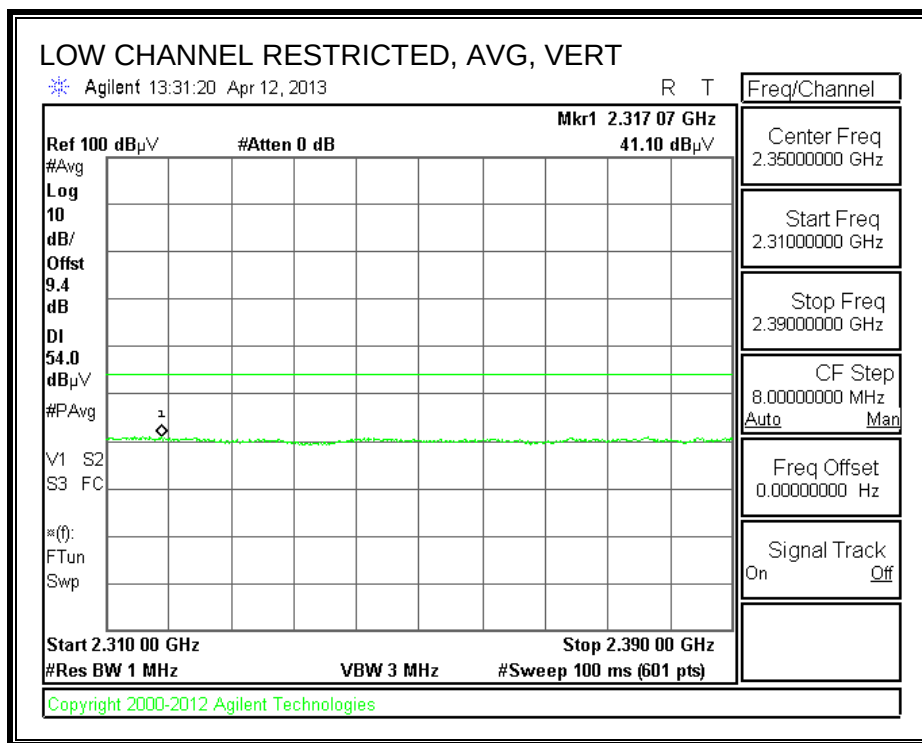
RESTRICTED BANDEDGE (LOW CHANNEL, HORIZONTAL)



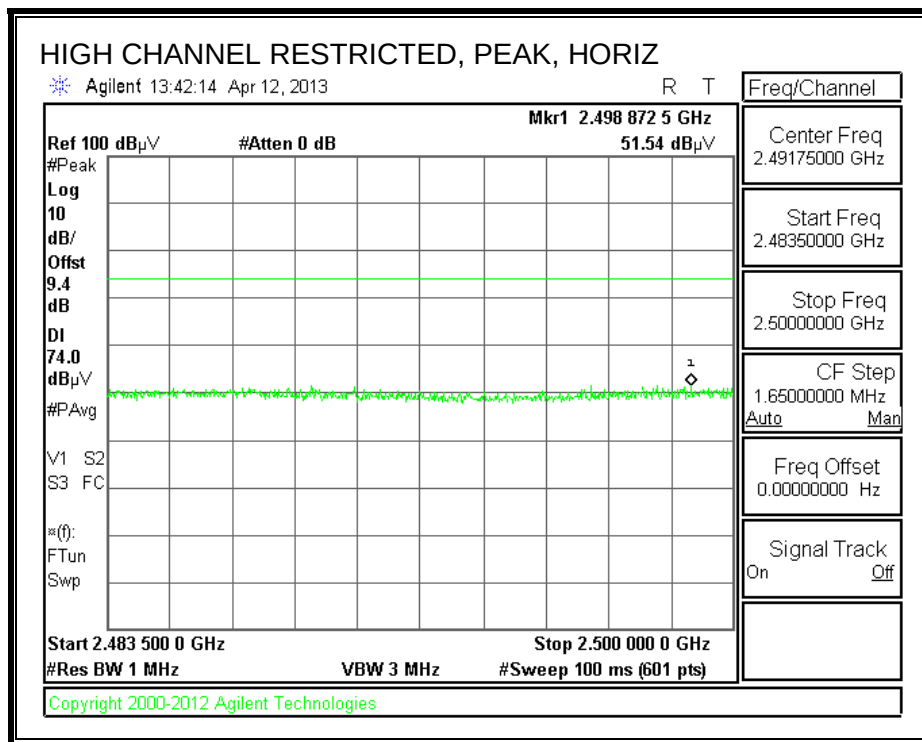


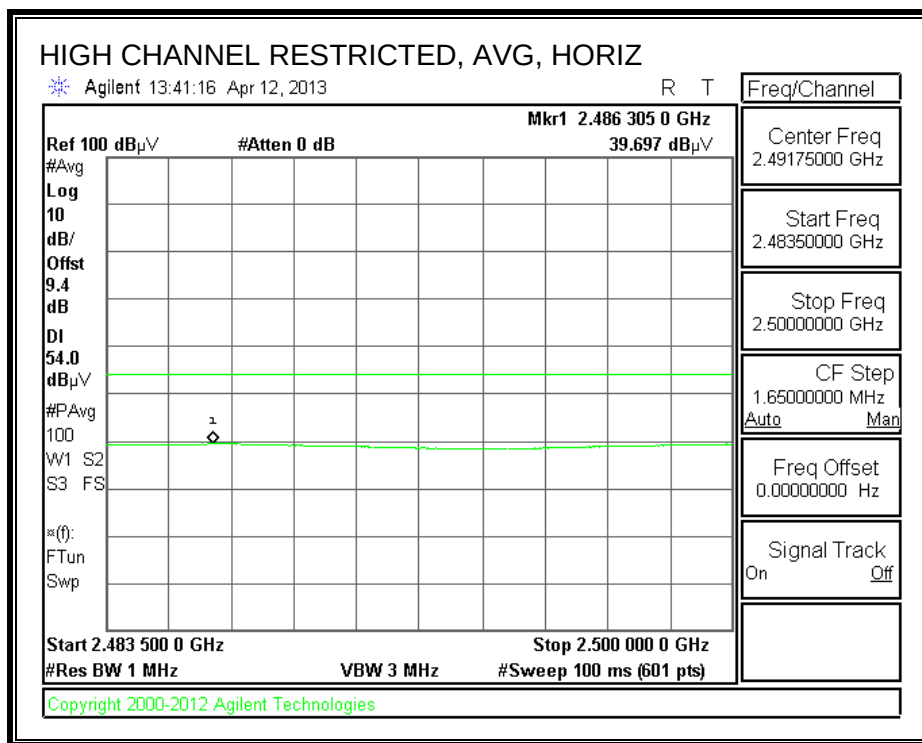
RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



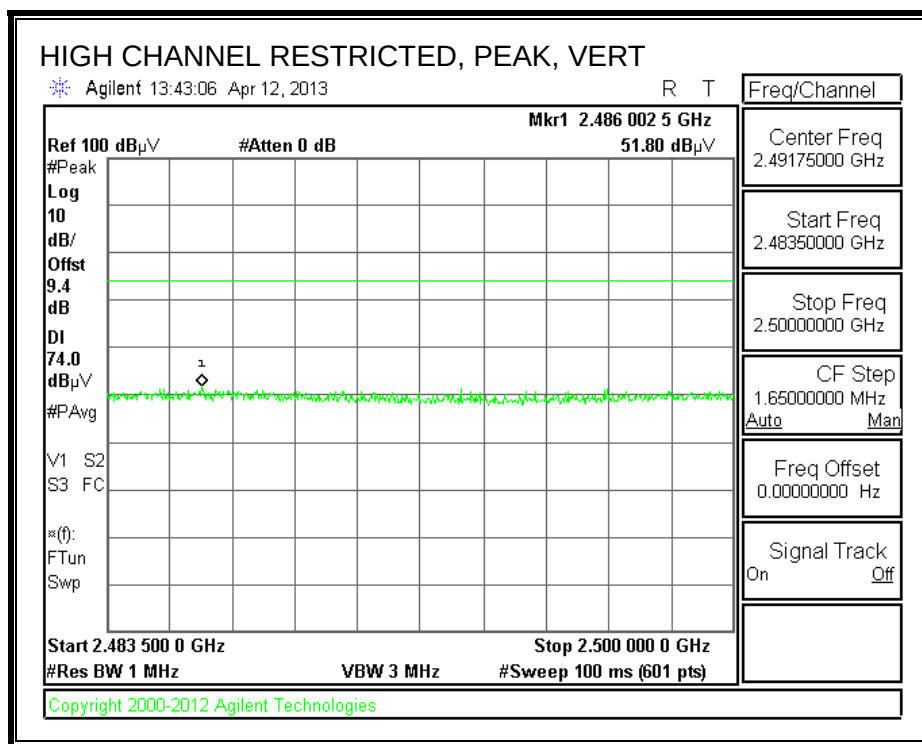


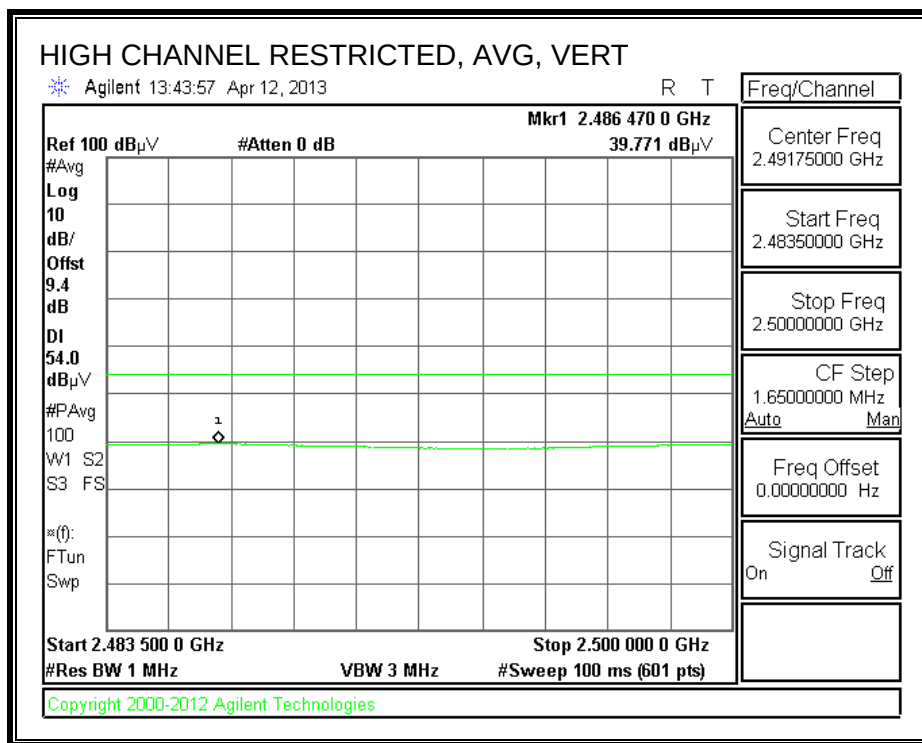
RESTRICTED BANEDGE (HIGH CHANNEL, HORIZONTAL)



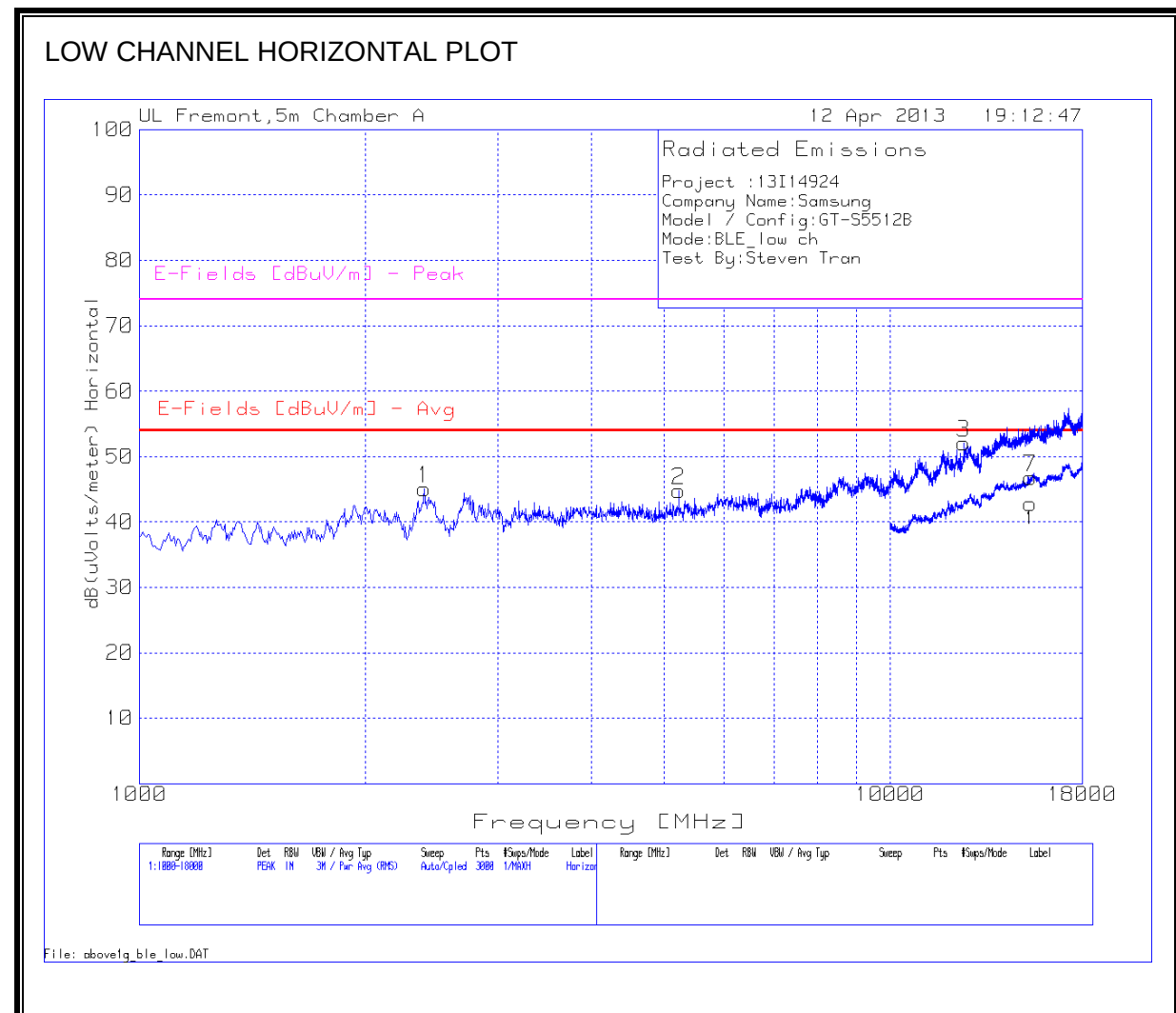


RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

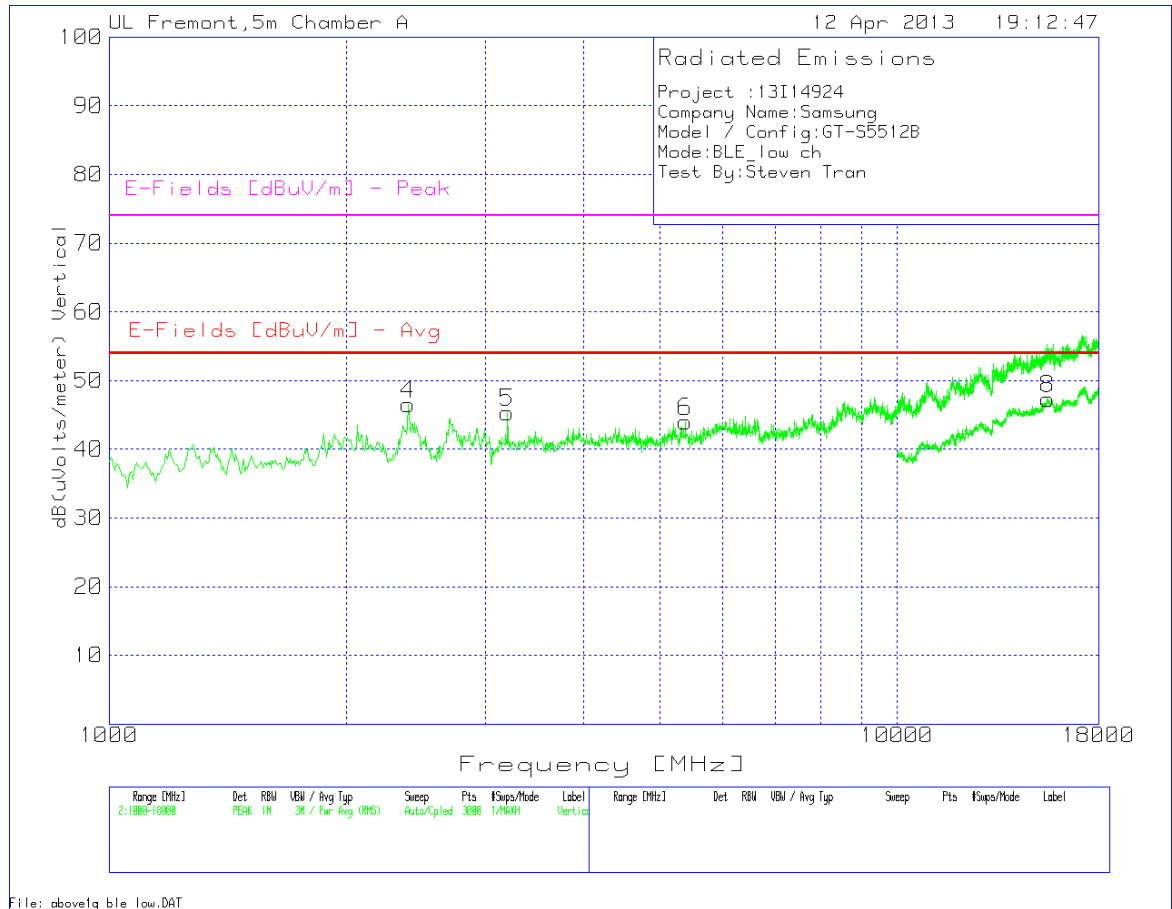




HARMONICS AND SPURIOUS EMISSIONS



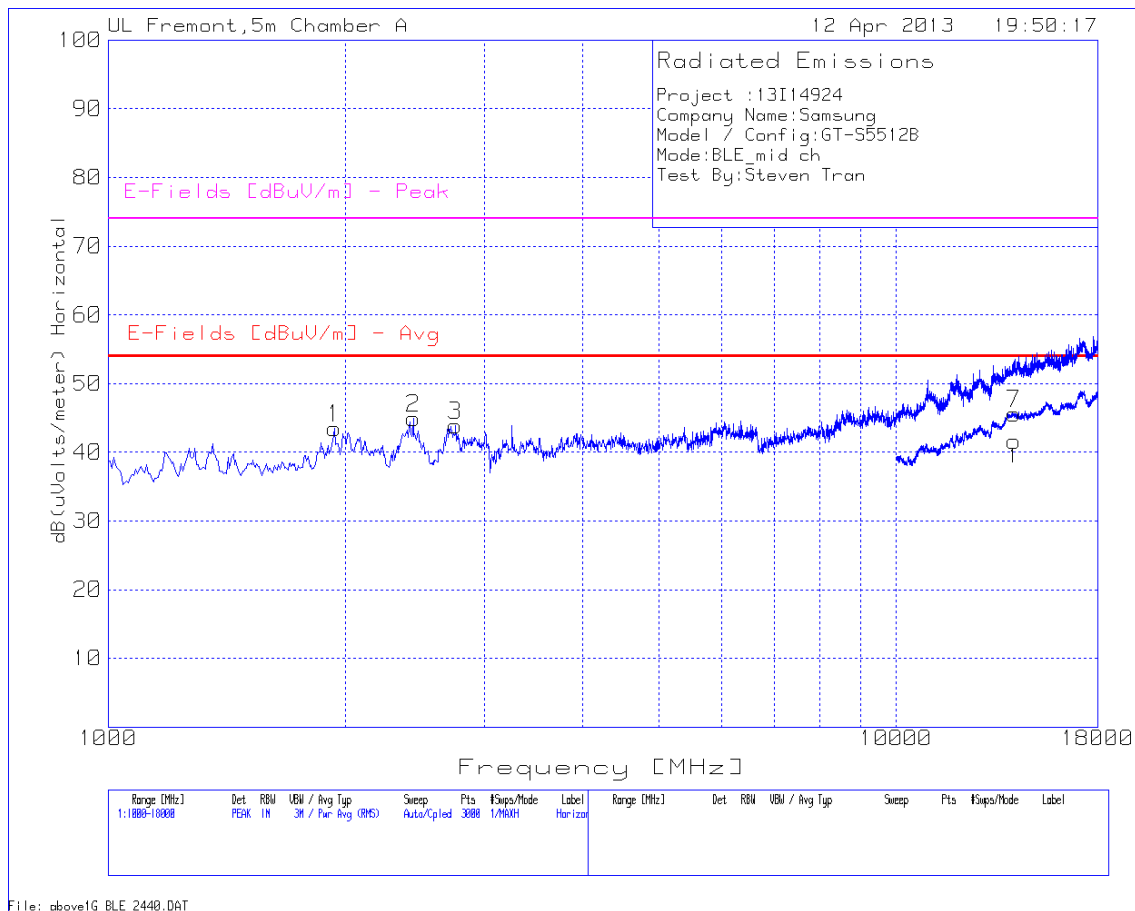
LOW CHANNEL VERTICAL PLOT



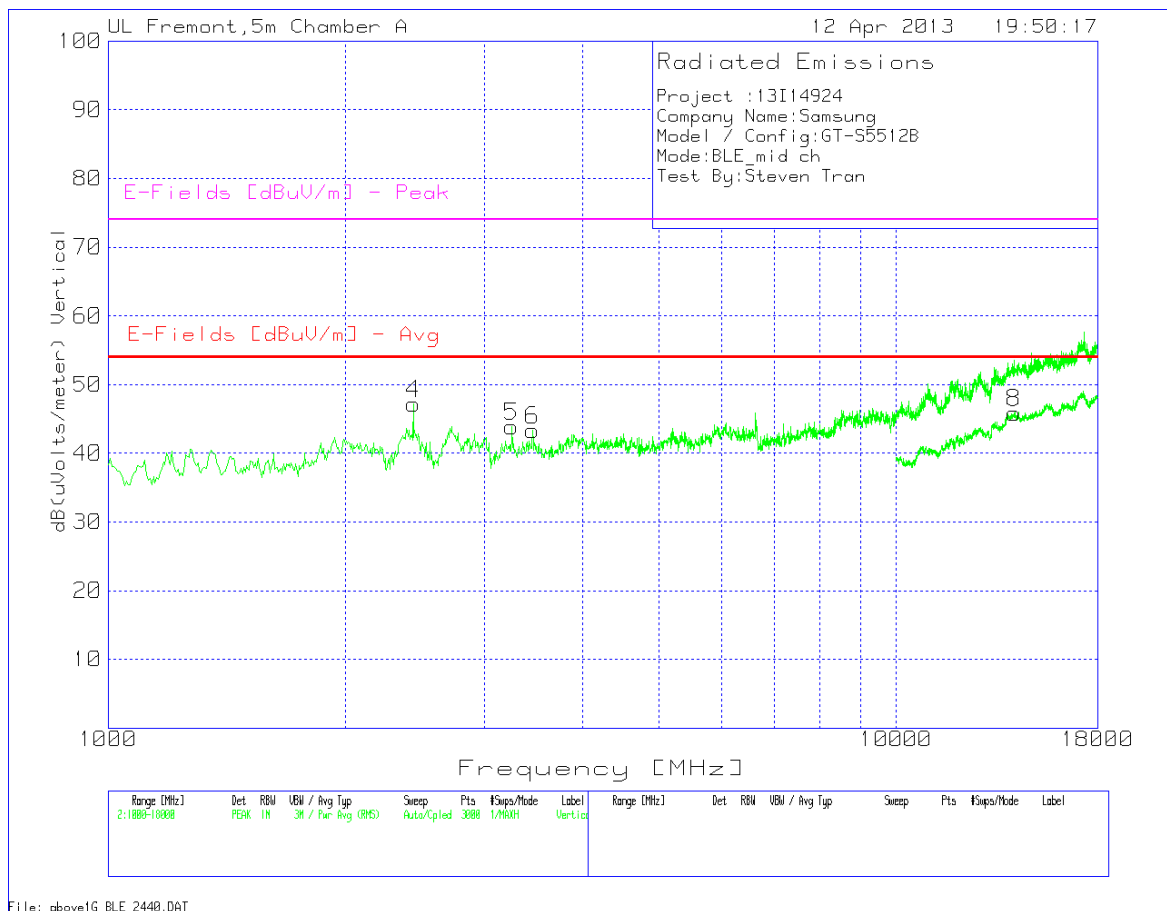
LOW CHANNEL HORIZONTAL AND VERTICAL DATA

Project :13114924														
Company Name:Samsung														
Model / Config:GT-S5512B														
Mode:BLE_low ch														
Test By:Steven Tran														
Marker No.	Test Frequency	Meter Reading	Detector	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T160 BRF [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 18000MHz														
1	2398.734	44.6	PK	32.1	-36.9	4.4	0.9	45.1	53.97	-8.87	74	-28.9	200	Horz
2	5230.18	38.85	PK	34.2	-35.5	7.1	0.2	44.85	53.97	-9.12	74	-29.15	100	Horz
3	12518.321	35.64	PK	39.1	-34.9	11.7	0.5	52.04	53.97	-1.93	74	-21.96	200	Horz
Vertical 1000 - 18000MHz														
4	2398.734	46	PK	32.1	-36.9	4.4	0.9	46.5	53.97	-7.47	74	-27.5	100	Vert
5	3202.865	42.5	PK	33.6	-36.5	5.3	0.4	45.3	53.97	-8.67	74	-28.7	100	Vert
6	5383.078	37.77	PK	34.4	-35.5	7.2	0.2	44.07	53.97	-9.9	74	-29.93	100	Vert
Horizontal 10000 - 18000MHz														
7	15361.319	27.57	PK	40.7	-35	13.1	0.4	46.77	53.97	-7.2	74	-27.23	100	Horz
Vertical 10000 - 18000MHz														
8	15533.233	28.17	PK	40.6	-35.1	13.2	0.4	47.27	53.97	-6.7	74	-26.73	100	Vert
PK - Peak detector														
Av - Average detector														

MID CHANNEL HORIZONTAL PLOT



MID CHANNEL VERTICAL PLOT

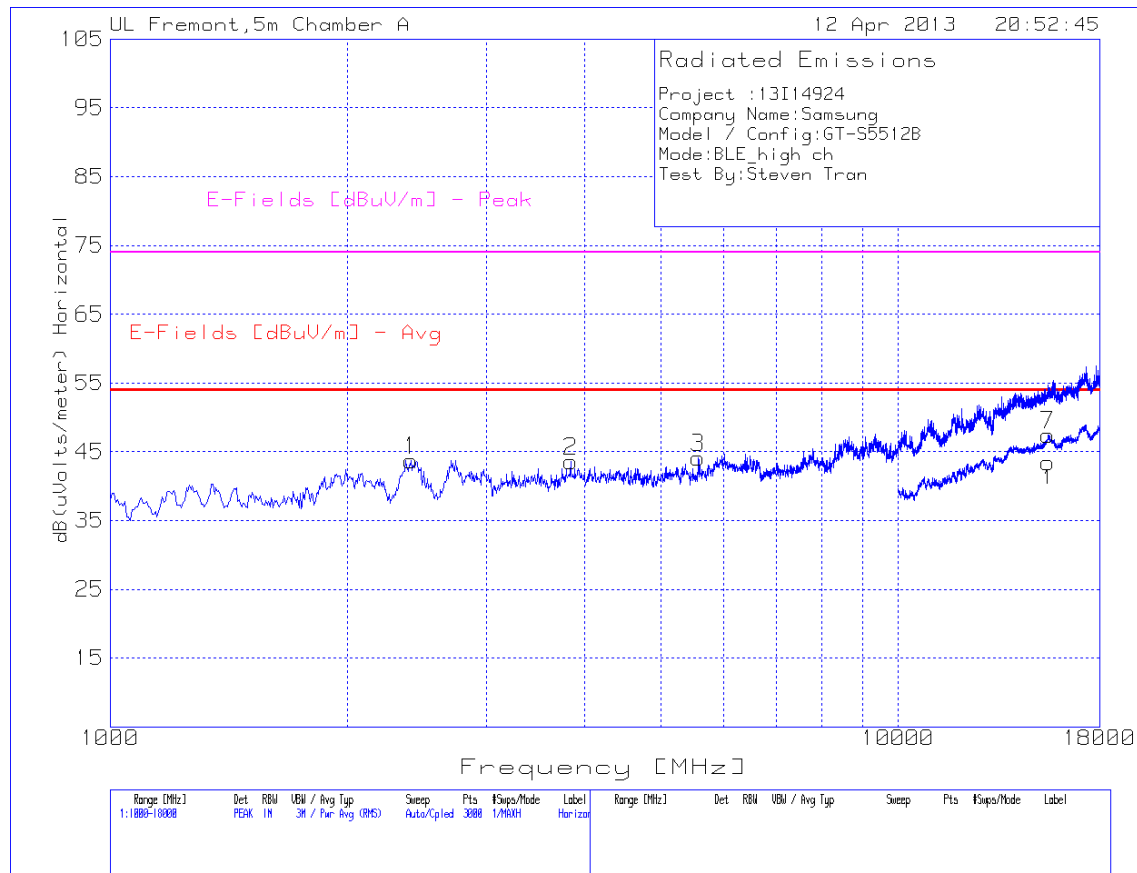


MID CHANNEL HORIZONTAL AND VERTICAL DATA

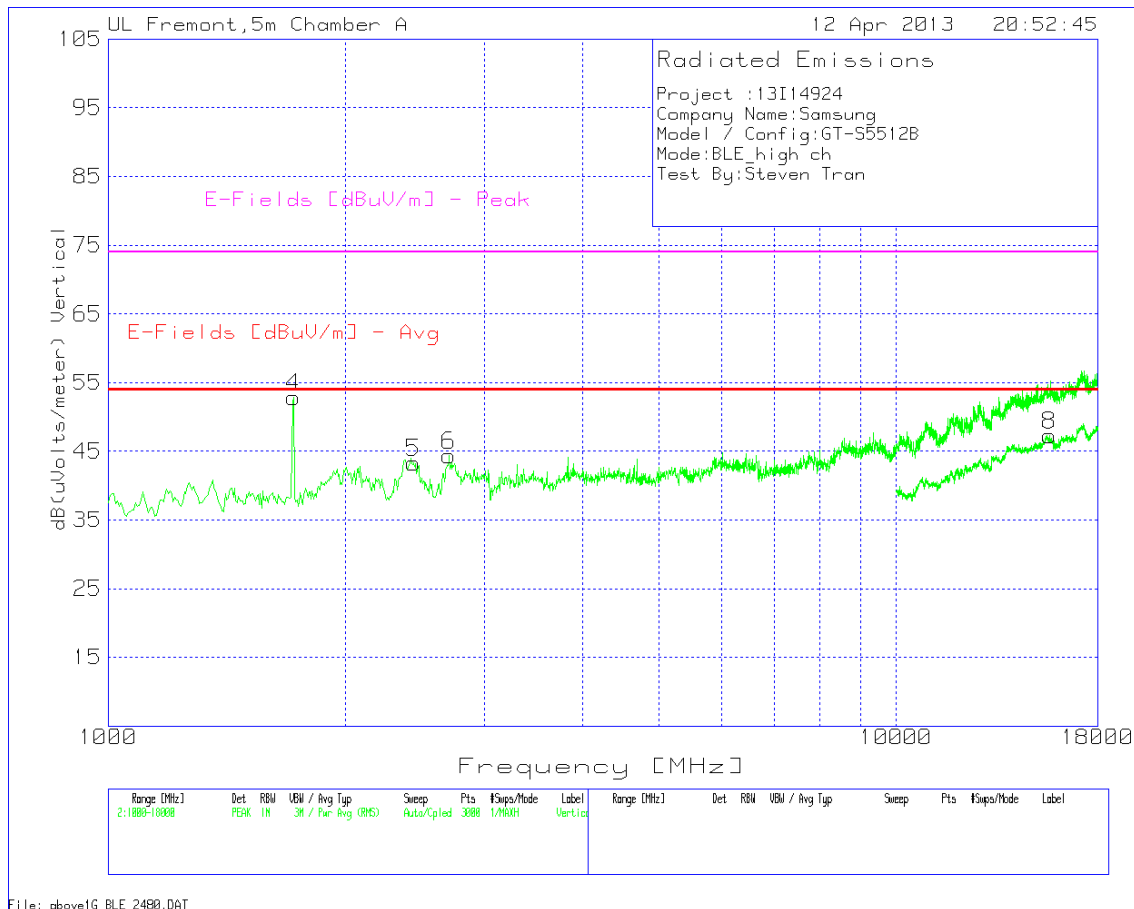
Project :13114924
Company Name:Samsung
Model / Config:GT-S5512B
Mode:BLE_mid ch
Test By:Steven Tran

Marker No.	Test Frequency	Meter Reading	Detector	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T160 BRFS [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 18000MHz														
1	1940.04	43.94	PK	31.8	-37.2	4	0.9	43.44	53.97	-10.53	74	-30.56	200	Horz
2	2438.374	44.2	PK	32.3	-36.9	4.5	0.9	45	53.97	-8.97	74	-29	100	Horz
3	2761.159	42.36	PK	32.6	-36.8	4.8	0.9	43.86	53.97	-10.11	74	-30.14	200	Horz
Vertical 1000 - 18000MHz														
4	2438.374	46.38	PK	32.3	-36.9	4.5	0.9	47.18	53.97	-6.79	74	-26.82	100	Vert
5	3253.831	41.4	PK	33.2	-36.5	5.3	0.5	43.9	53.97	-10.07	74	-30.1	200	Vert
6	3457.695	40.71	PK	33.1	-36.4	5.5	0.4	43.31	53.97	-10.66	74	-30.69	200	Vert
Horizontal 10000 - 18000MHz														
7	14109.945	27.43	PK	39.2	-33.9	12.5	0.4	45.63	53.97	-8.34	74	-28.37	100	Horz
Vertical 10000 - 18000MHz														
8	14113.943	27.62	PK	39.2	-33.9	12.5	0.4	45.82	53.97	-8.15	74	-28.18	100	Vert
PK - Peak detector														
Av - Average detector														

HIGH CHANNEL HORIZONTAL PLOT



HIGH CHANNEL VERTICAL PLOT



HIGH CHANNEL HORIZONTAL AND VERTICAL DATA

Project :13I14924

Company Name:Samsung

Model / Config:GT-S5512B

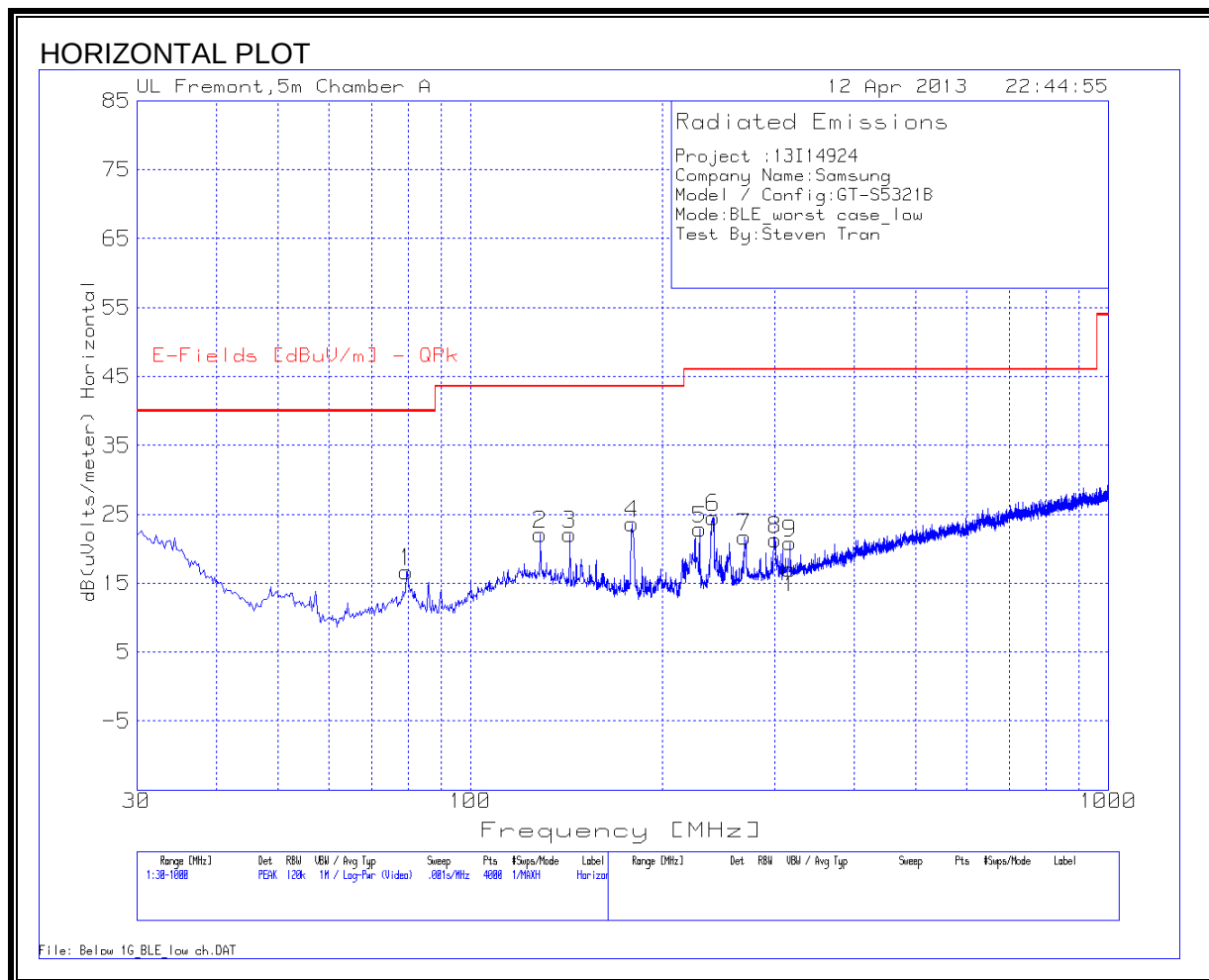
Mode:BLE_high ch

Test By:Steven Tran

Marker No.	Test Frequency	Meter Reading	Detector	T136 Ant Factor [dB/m]	T144 Preamp Gain [dB]	Cable Factor [dB]	T160 BRF [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - Avg	Margin (dB)	E-Fields [dBuV/m] - Peak	Margin (dB)	Height [cm]	Polarity
Horizontal 1000 - 18000MHz														
1	2410.06	43.16	PK	32.2	-36.9	4.4	0.9	43.76	53.97	-10.21	74	-30.24	200	Horz
2	3842.771	39.95	PK	33.6	-36.1	5.9	0.3	43.65	53.97	-10.32	74	-30.35	200	Horz
3	5575.616	37.57	PK	34.4	-35.5	7.4	0.2	44.07	53.97	-9.9	74	-29.93	200	Horz
Vertical 1000 - 18000MHz														
4	1719.187	56.31	PK	29.6	-37.5	3.7	0.7	52.81	53.97	-1.16	74	-21.19	200	Vert
5	2444.037	42.58	PK	32.3	-36.9	4.5	0.9	43.38	53.97	-10.59	74	-30.62	100	Vert
6	2710.193	42.77	PK	32.7	-36.8	4.8	0.9	44.37	53.97	-9.6	74	-29.63	100	Vert
Horizontal 10000 - 18000MHz														
7	15493.253	28.31	PK	40.6	-35.1	13.2	0.4	47.41	53.97	-6.56	74	-26.59	100	Horz
Vertical 10000 - 18000MHz														
8	15641.179	28.34	PK	40.5	-35.1	13.3	0.3	47.34	53.97	-6.63	74	-26.66	200	Vert
PK - Peak detector														
Av - Average detector														

8.3. WORST-CASE BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

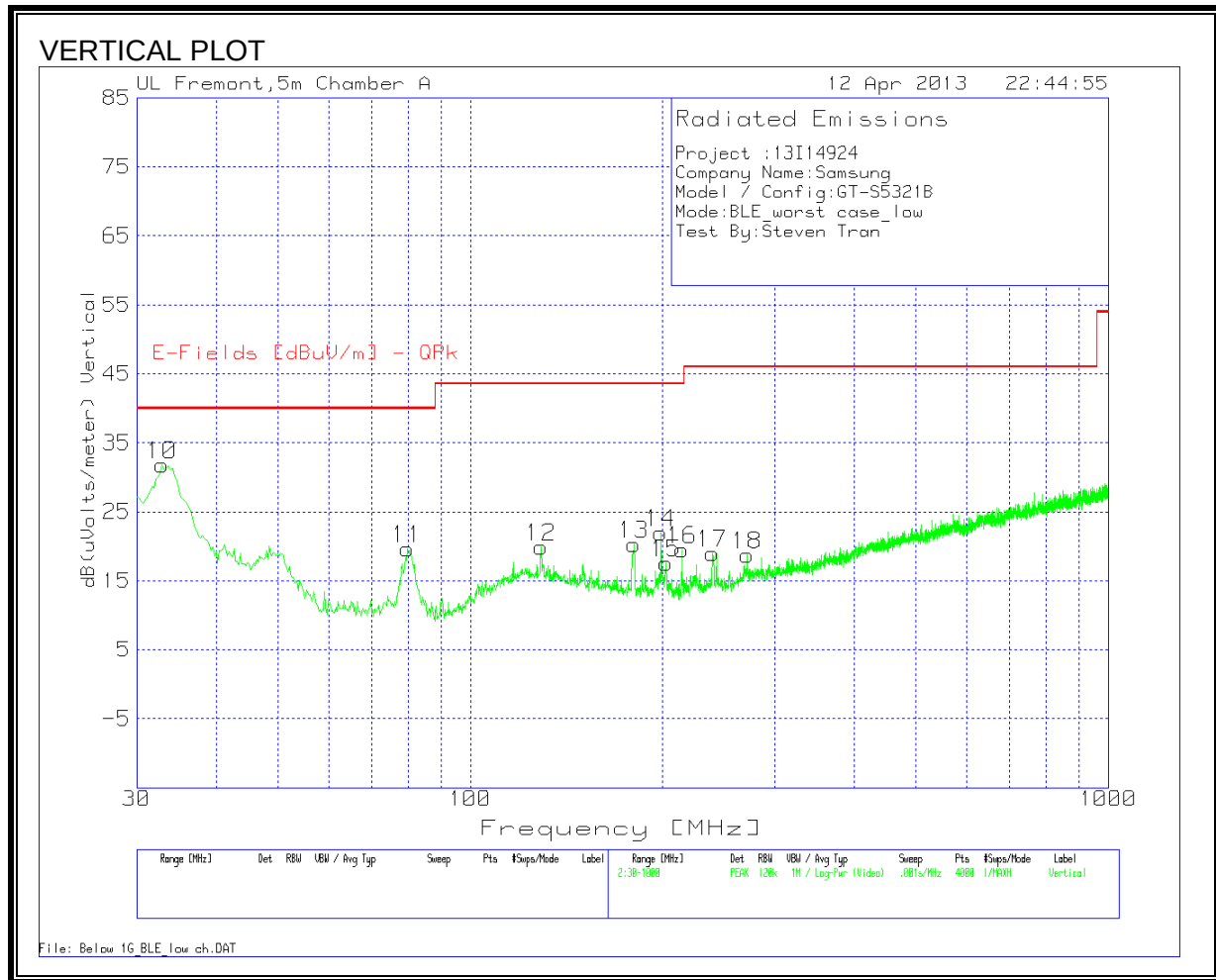


HORIZONTAL DATA

Project :13I14924										
Company Name:Samsung										
Model / Config:GT-S5321B										
Mode:BLE_worst case_low										
Test By:Steven Tran										

Marker No.	Test Frequency	Meter Reading	Detector	T185 Antenna Factor dB/m	T64 preamp/ cable loss [dB]	dB(uV/s/meter)	E-Fields [dBuV/m] - QPk	Margin (dB)	Height [cm]	Polarity
Horizontal 30 - 1000MHz										
1	79.4329	36.17	PK	7.7	-27.2	16.67	40	-23.33	100	Horz
2	128.8659	34.83	PK	14.1	-26.8	22.13	43.52	-21.39	200	Horz
3	143.1626	36.04	PK	12.8	-26.7	22.14	43.52	-21.38	200	Horz
4	179.5104	39.12	PK	10.9	-26.4	23.62	43.52	-19.9	200	Horz
5	228.701	38.01	PK	11	-26.2	22.81	46.02	-23.21	100	Horz
6	240.0899	39.2	PK	11.6	-26.2	24.6	46.02	-21.42	100	Horz
7	269.1681	34.55	PK	13.1	-25.9	21.75	46.02	-24.27	100	Horz
8	300.6695	33.81	PK	13.3	-25.8	21.31	46.02	-24.71	100	Horz
9	316.9048	32.86	PK	13.7	-25.7	20.86	46.02	-25.16	100	Horz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



VERTICAL DATA

Project :13I14924										
Company Name:Samsung										
Model / Config:GT-S5321B										
Mode:BLE_worst case_low										
Test By:Steven Tran										
Marker No.	Test Frequency	Meter Reading	Detector	T185 Antenna Factor dB/m	T64 preamp/ cable loss [dB]	dB(uVolts/meter)	E-Fields [dBuV/m] - QPk	Margin (dB)	Height [cm]	Polarity
Vertical 30 - 1000MHz										
10	32.9078	40.56	PK	18.9	-27.7	31.76	40	-8.24	200	Vert
11	79.6752	39.14	PK	7.7	-27.2	19.64	40	-20.36	200	Vert
12	129.1082	32.57	PK	14.1	-26.8	19.87	43.52	-23.65	200	Vert
13	180.4796	35.83	PK	10.9	-26.4	20.33	43.52	-23.19	200	Vert
14	198.8958	36.1	PK	12.1	-26.2	22	43.52	-21.52	200	Vert
15	202.5306	32.01	PK	11.8	-26.3	17.51	43.52	-26.01	200	Vert
16	214.6465	35.13	PK	10.5	-26.1	19.53	43.52	-23.99	200	Vert
17	239.363	33.58	PK	11.6	-26.2	18.98	46.02	-27.04	200	Vert
18	271.8336	31.5	PK	13.2	-26	18.7	46.02	-27.32	300	Vert

9. AC POWER LINE CONDUCTED EMISSIONS

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

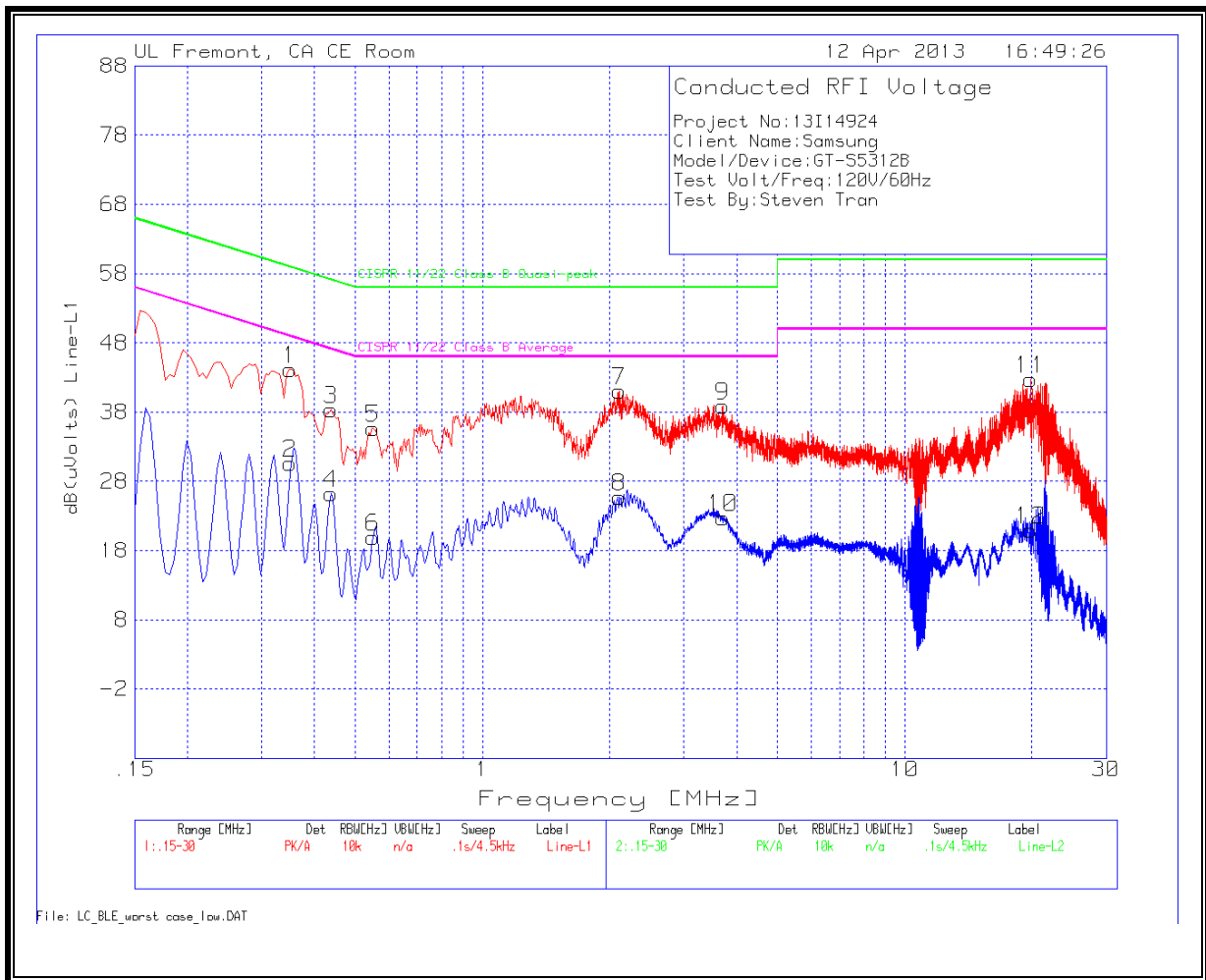
ANSI C63.4

RESULTS

6 WORST EMISSIONS

Project No:13I14924									
Client Name:Samsung									
Model/Device:GT-S5312B									
Test Volt/Freq:120V/60Hz									
Test By:Steven Tran									
Test Frequency	Meter Reading	Detector	T24 IL L1.TXT (dB)	LC Cables 1&3.TXT (dB)	dB(uVolts)	CISPR 11/22 Class B Quasi-peak	Margin	CISPR 11/22 Class B Average	Margin
Line-L1 .15 - 30MHz									
0.35025	44.01	PK	0.1	0	44.11	59	-14.89	-	-
0.35025	30.48	Av	0.1	0	30.58	-	-	49	-18.42
0.438	38.29	PK	0.1	0	38.39	57.1	-18.71	-	-
0.438	26.2	Av	0.1	0	26.3	-	-	47.1	-20.8
0.5505	35.53	PK	0.1	0	35.63	56	-20.37	-	-
0.5505	19.83	Av	0.1	0	19.93	-	-	46	-26.07
2.112	40.87	PK	0.1	0.1	41.07	56	-14.93	-	-
2.112	25.56	Av	0.1	0.1	25.76	-	-	46	-20.24
3.705	38.69	PK	0.1	0.1	38.89	56	-17.11	-	-
3.705	22.54	Av	0.1	0.1	22.74	-	-	46	-23.26
19.8375	42.29	PK	0.3	0.2	42.79	60	-17.21	-	-
19.8375	20.41	Av	0.3	0.2	20.91	-	-	50	-29.09
Test Frequency	Meter Reading	Detector	T24 IL L2.TXT (dB)	LC Cables 2&3.TXT (dB)	dB(uVolts)	CISPR 11/22 Class B Quasi-peak	Margin	CISPR 11/22 Class B Average	Margin
Line-L2 .15 - 30MHz									
0.33	45.39	PK	0.1	0	45.49	59.5	-14.01	-	-
0.33	33.57	Av	0.1	0	33.67	-	-	49.5	-15.83
0.4155	38.77	PK	0.1	0	38.87	57.5	-18.63	-	-
0.4155	21.94	Av	0.1	0	22.04	-	-	47.5	-25.46
1.23	37.83	PK	0.1	0.1	38.03	56	-17.97	-	-
1.23	20.86	Av	0.1	0.1	21.06	-	-	46	-24.94
4.1955	37.59	PK	0.1	0.1	37.79	56	-18.21	-	-
4.1955	21.06	Av	0.1	0.1	21.26	-	-	46	-24.74
6.5625	30.77	PK	0.1	0.1	30.97	60	-29.03	-	-
6.5625	15.72	Av	0.1	0.1	15.92	-	-	50	-34.08
18.033	30.43	PK	0.2	0.2	30.83	60	-29.17	-	-
18.033	12.1	Av	0.2	0.2	12.5	-	-	50	-37.5

LINE 1 RESULTS



LINE 2 RESULTS

