



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

CERTIFICATION TEST REPORT

FOR

**GT-S6812I~802.11 b/g/n 1x1 HT20, + BT3.0+EDR
+ GSM850/1900MHz BAR PHONE**

MODEL NUMBER: GT-S6812I

FCC ID: A3LGTS6812I

REPORT NUMBER: 13I14835-1

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Prepared for
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Revision History

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SAMSUNG ELECTRONICS CO., LTD.
416, MAETAN 3-DONG, YEONGTONG-GU
SUWON-CITY
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EUT DESCRIPTION: GT-S6812I~802.11 b/g/n 1x1 HT20, + BT3.0+EDR
+ GSM850/1900MHZ BAR PHONE

MODEL: GT-S6812I

SERIAL NUMBER: S6812iZCAMA1

DATE TESTED: FEBRUARY 04 -12, 2013

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 Part 15 Subpart C	Pass
INDUSTRY CANADA RSS-210 Issue 8 Annex 8	Pass
INDUSTRY CANADA RSS-GEN Issue 3	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:



TIM LEE
WiSE PROGRAM MANAGER
UL CCS

CHIN PANG
EMC ENGINEER
UL CCS

2. TEST METHODOLOGY

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

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

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 an 802.11 b/g/n 1x1 HT20, + BT3.0+EDR+ GSM850/1900MHz BAR PHONE.

5.2. MAXIMUM OUTPUT POWER

The transmitter has a maximum conducted output power as follows:

Frequency Range (MHz)	Mode	Output Power (dBm)	Output Power (mW)
2412 - 2462	802.11b	17.34	54.20
2412 - 2462	802.11g	21.72	148.59
2412 - 2462	802.11n HT20	20.36	108.64

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes an antenna with a maximum peak gain of -3.8 dBi.

5.4. SOFTWARE AND FIRMWARE

The firmware installed in the EUT during testing was S6812i.001

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 and Z, it was determined that Z orientation was worst-case orientation; therefore, all final radiated testing was performed with the EUT in Z orientation with AC adapter and headset.

Based on the baseline scan, the worst-case data rates were:

802.11b mode: 1 Mbps
802.11g mode: 6 Mbps
802.11n HT20mode: MCS0

5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Support Equipment List				
Description	Manufacturer	Model	Serial Number	FCC ID
AC Adapter	Samsung	ETA0U10EBE	RT3C504AS/7-E	N/A
Headset	Samsung	GH59-11129H	EHS61ASFWE	N/A

I/O CABLES (CONDUCTED SETUP)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	115VAC	Un-Shielded	2	N/A
2	DC	1	USB	Un-Shielded	1	N/A
3	Antenna Port	1	Spectrum Analyzer	Un-Shielded	1	N/A

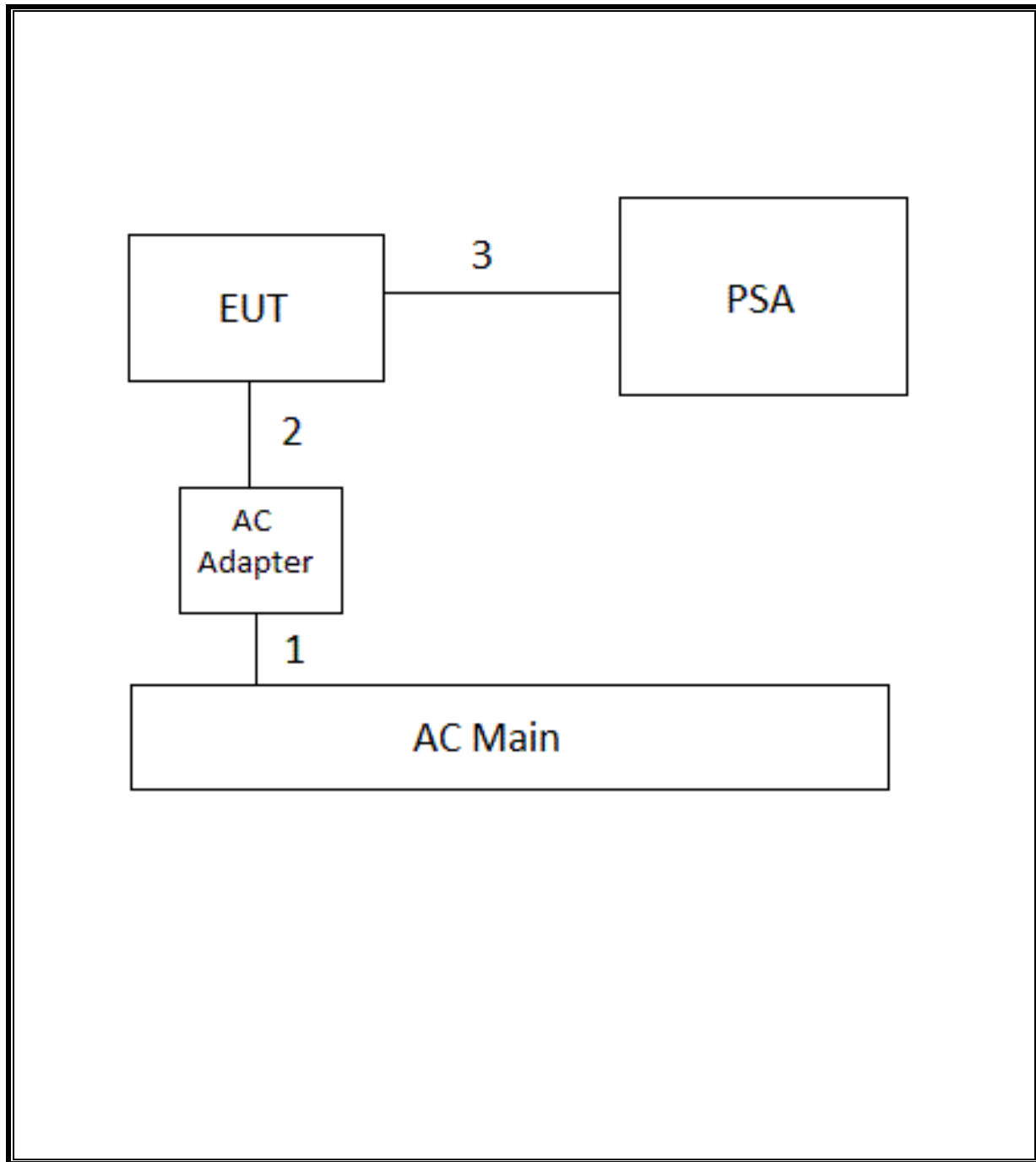
I/O CABLES (RADIATED SETUP)

I/O Cable List						
Cable No	Port	# of identical ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	115VAC	Un-Shielded	2	N/A
2	DC	1	USB	Un-Shielded	1	N/A
3	Audio	1	Headset	Un-Shielded	1	N/A

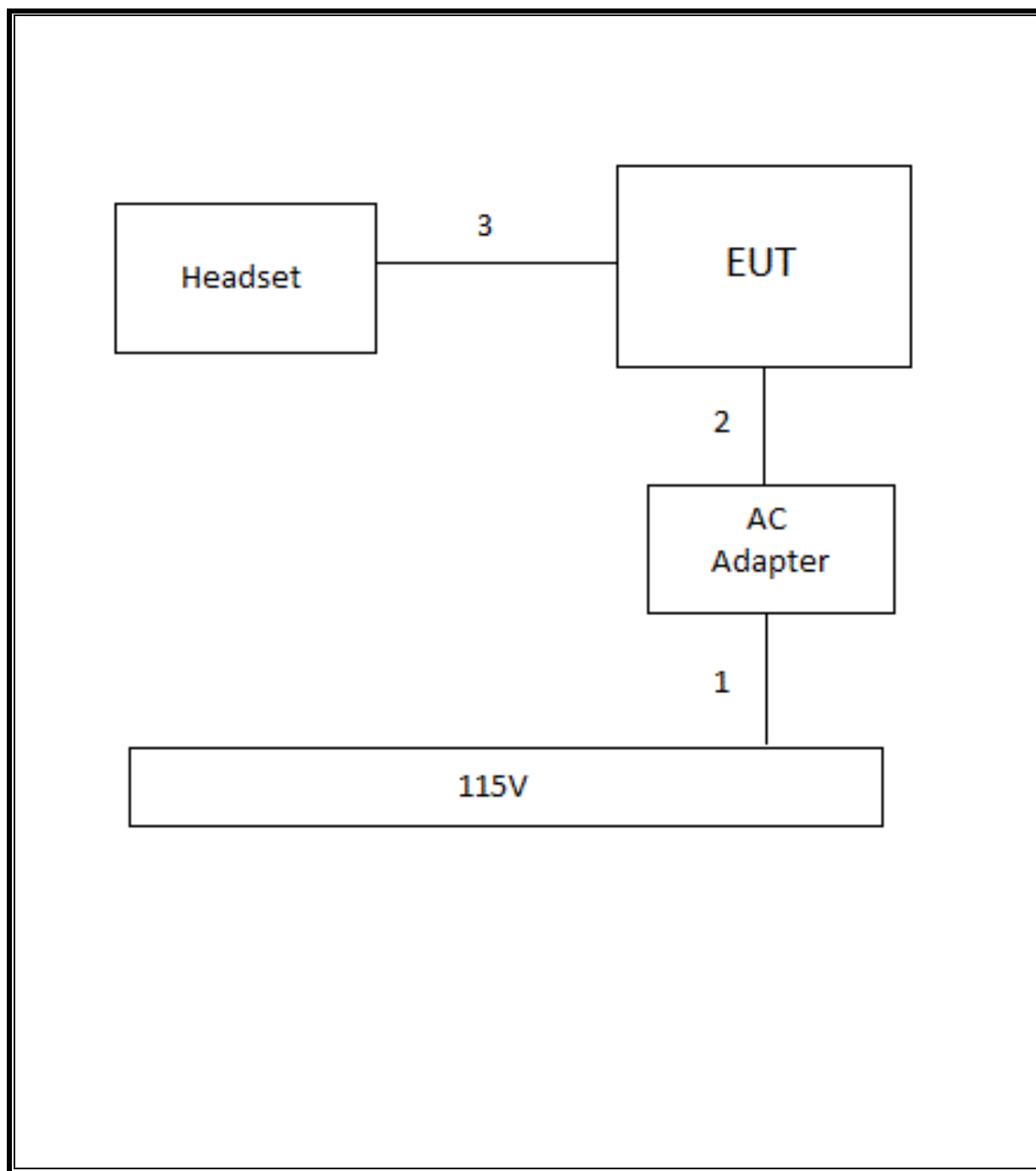
TEST SETUP

The EUT is with an AC adapter that was tested in the worst case orientation and configuration, where applicable, during the tests. Test software exercised the radio.

SETUP DIAGRAM FOR TESTS (CONDUCTED SETUP)



SETUP DIAGRAM FOR TESTS (RADIATED SETUP)



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 Date	Cal Due
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/08/12	08/08/13
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	01/28/13	01/28/14
Antenna, Biconolog, 30MHz-1 GHz	Sunol Sciences	JB1	C01011	03/23/12	03/23/13
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C00996	05/11/12	05/11/13
Antenna, Horn, 18 GHz	EMCO	3115	C00783	10/25/12	10/25/13
Antenna, Horn, 26.5 GHz	ARA	MWH-1826/B	C00980	11/14/12	11/14/13
Wideband Communication Test Set	R & S	CMW 500	None	06/28/12	06/28/13
Peak Power Meter	Agilent / HP	E4416A	C00963	12/13/12	12/13/13
LISN, 30 MHz	FCC	50/250-25-2	C00626	01/14/13	01/14/14
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	08/08/12	08/08/13
Reject Filter, 2.4-2.5 GHz	Micro-Tronics	BRM50702	N02685	CNR	CNR
Spectrum Analyzer, 44 GHz	Agilent / HP	E4446A	C00986	03/22/12	03/22/13
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	10/22/12	10/22/13

7. MEASUREMENT METHODS

On Time and Duty Cycle: KDB 558074 D01 v02; section 5.

6 dB Bandwidth: KDB 558074 D01 v02; section 7.1 Option 1.

Output Power: KDB 558074 D01 v02; section 8.1.2 Option 2.

Power Spectral Density: KDB 558074 D01 v02; section 9.1 Option 1.

Out-Of-Band Emission: KDB 558074 D01 v02; Section 10.

8. ON TIME, DUTY CYCLE AND MEASUREMENT METHODS

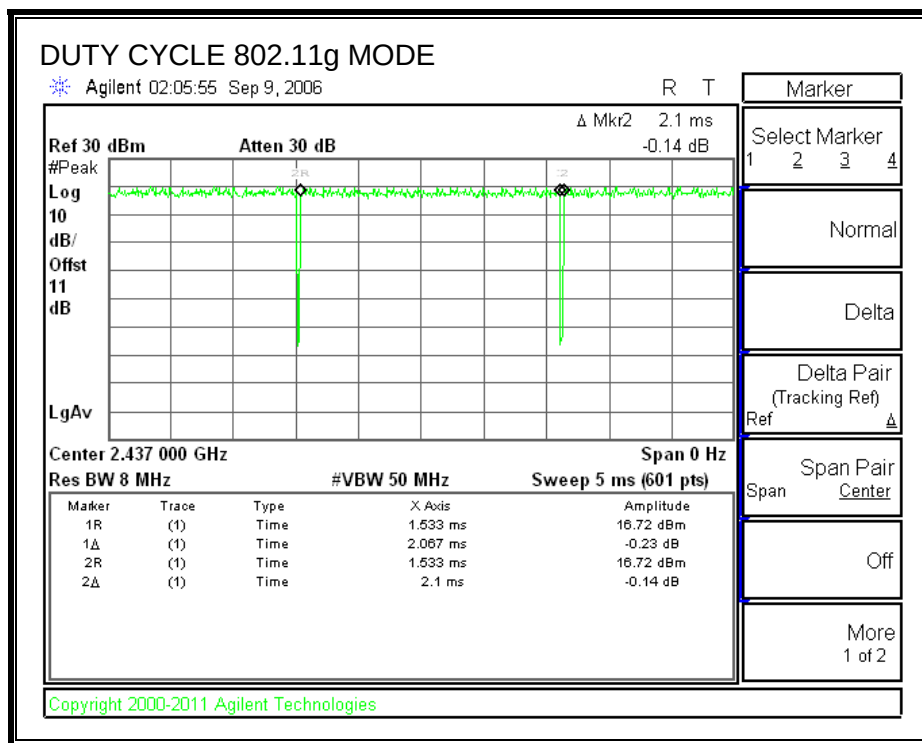
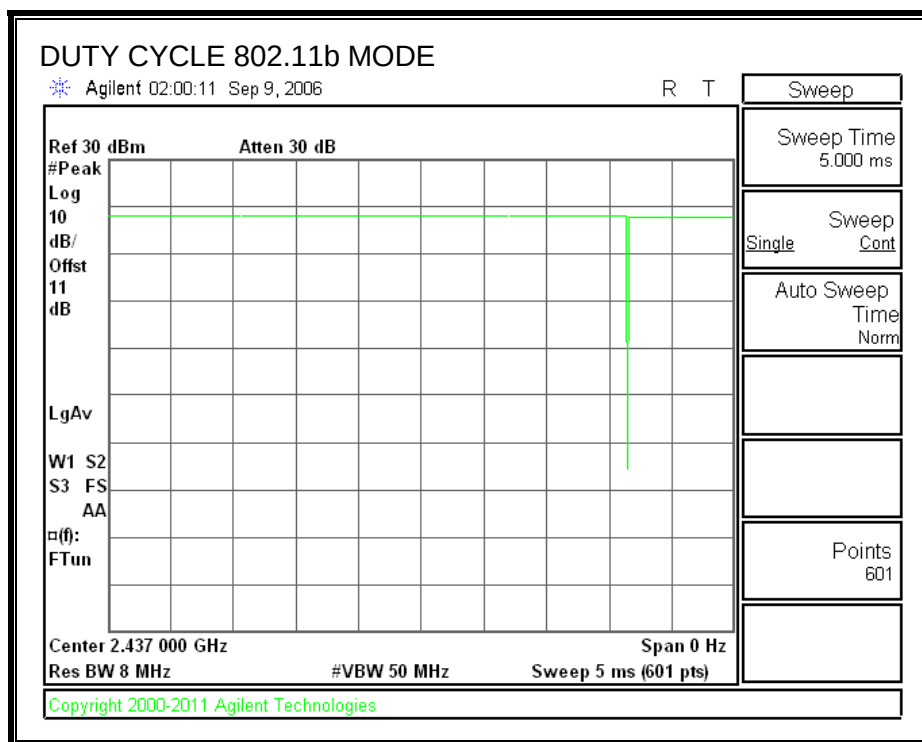
LIMITS

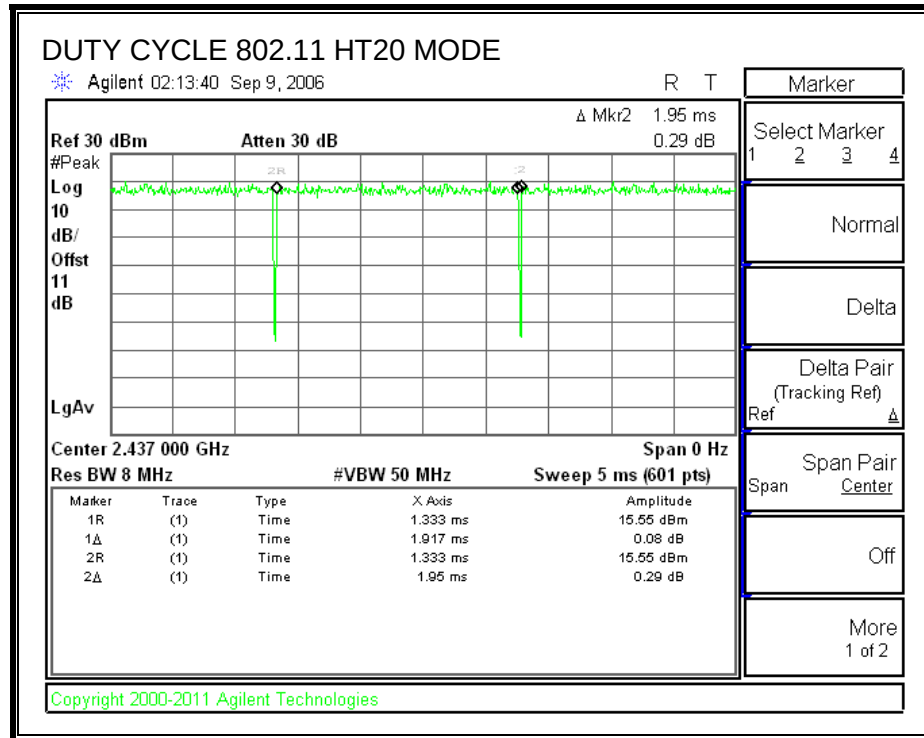
None; for reporting purposes only.

8.1. ON TIME AND DUTY CYCLE RESULTS

Mode	ON Time B (msec)	Period (msec)	Duty Cycle x (linear)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)
802.11b	100.00	100	1.000	100.0%	0.00
802.11g	2.067	2.100	0.984	98.4%	0.00
802.11n HT20	1.917	1.950	0.983	98.3%	0.00

8.2. DUTY CYCLE PLOTS





9. ANTENNA PORT TEST RESULTS

9.1. 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.

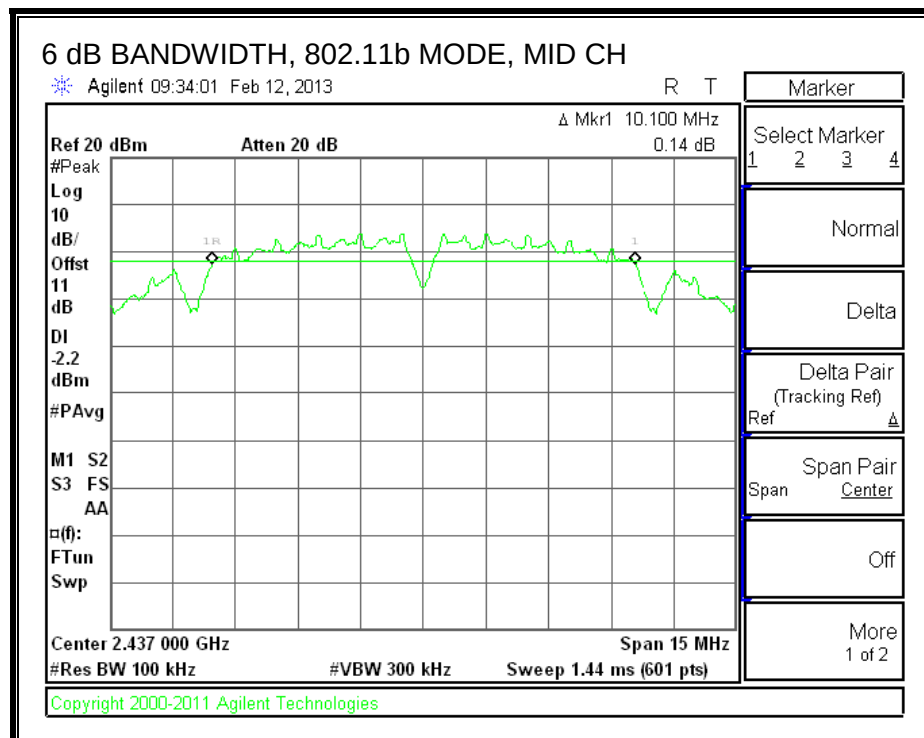
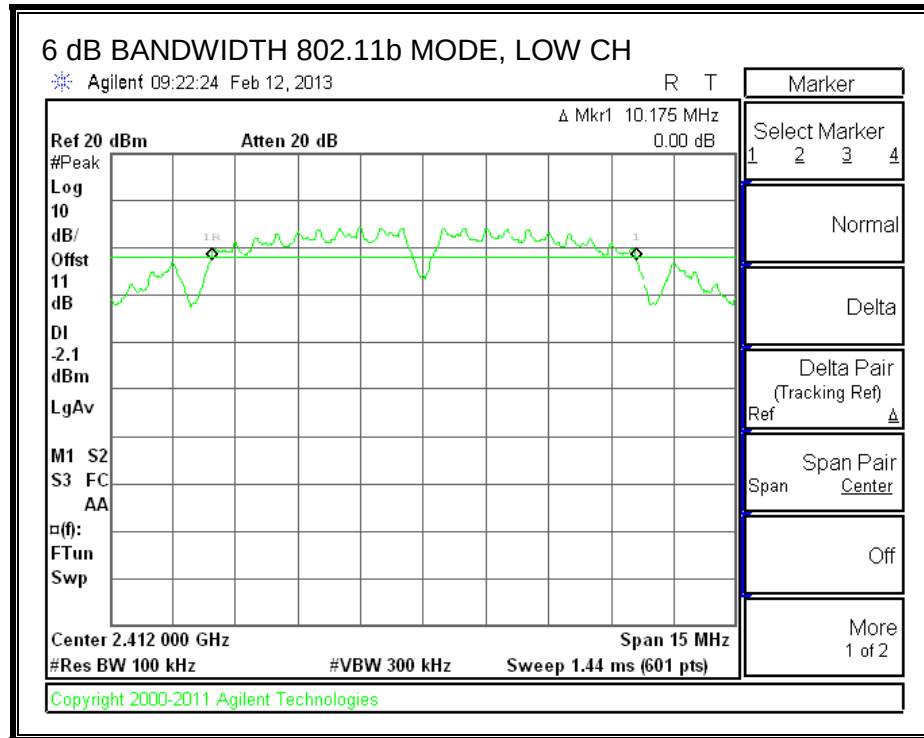
TEST PROCEDURE

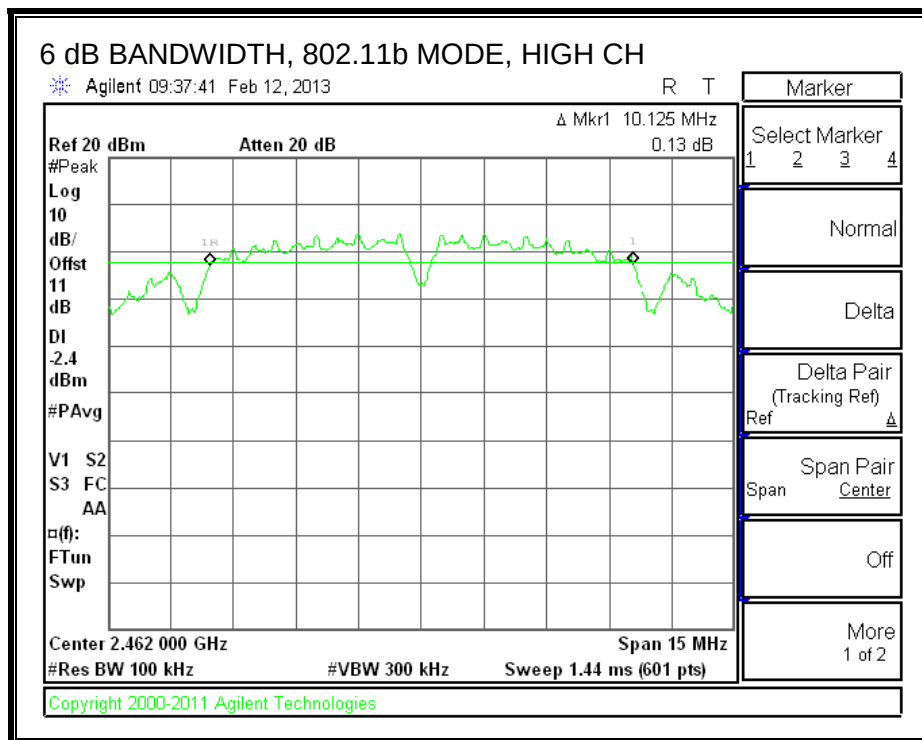
The transmitter output is connected to a spectrum analyzer with the RBW set between 1% and 5% of the EBW, the VBW $\geq 3 \times$ RBW, peak detector and max hold.

RESULTS

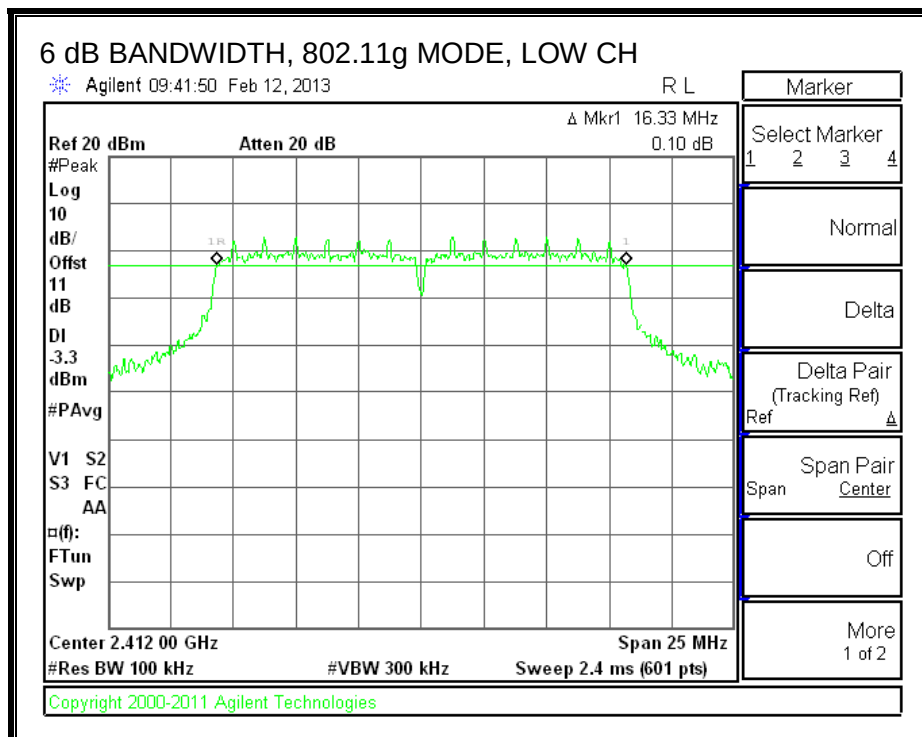
Mode	Channel	Frequency (MHz)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)
802.11b	Low	2412	10.175	0.5
	Mid	2437	10.100	0.5
	High	2462	10.125	0.5
802.11g	Low	2412	16.330	0.5
	Mid	2437	16.420	0.5
	High	2462	16.460	0.5
HT20	Low	2412	17.420	0.5
	Mid	2437	17.500	0.5
	High	2462	17.500	0.5

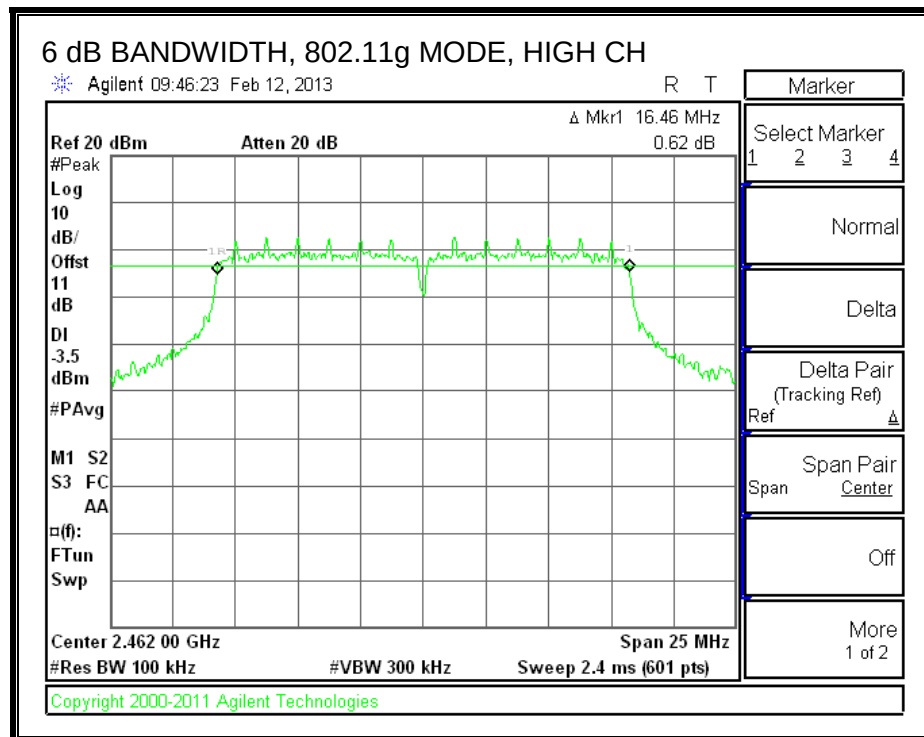
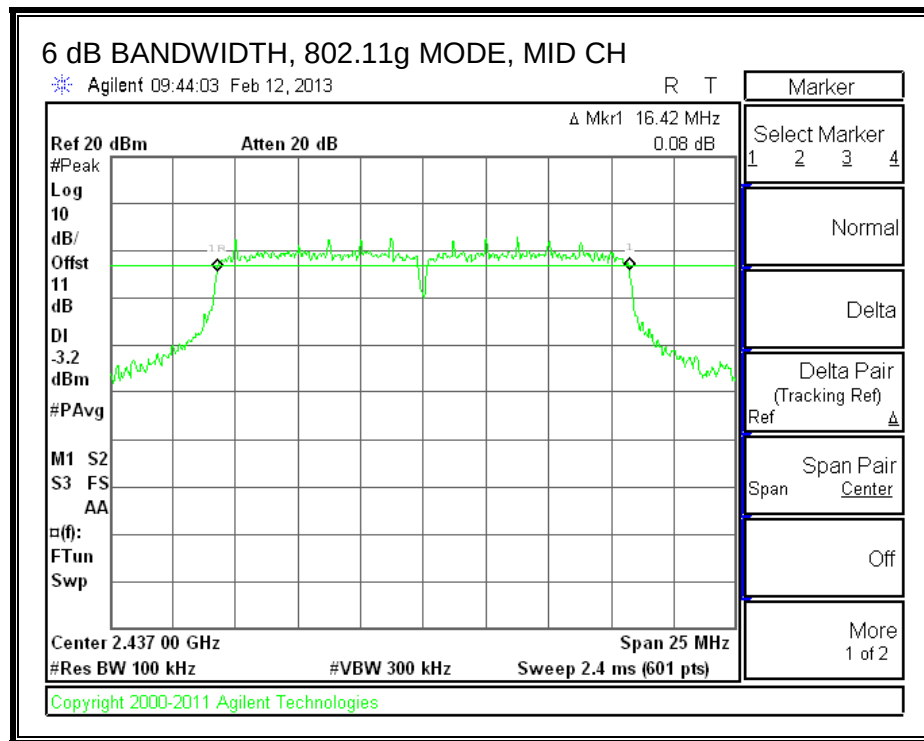
6 dB BANDWIDTH, 802.11b MODE



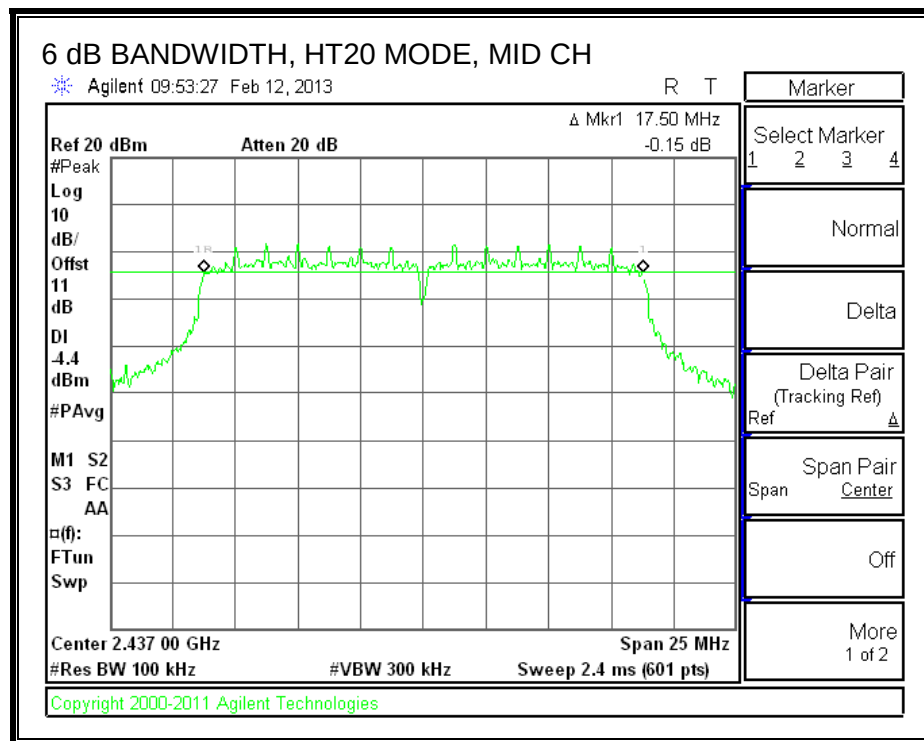
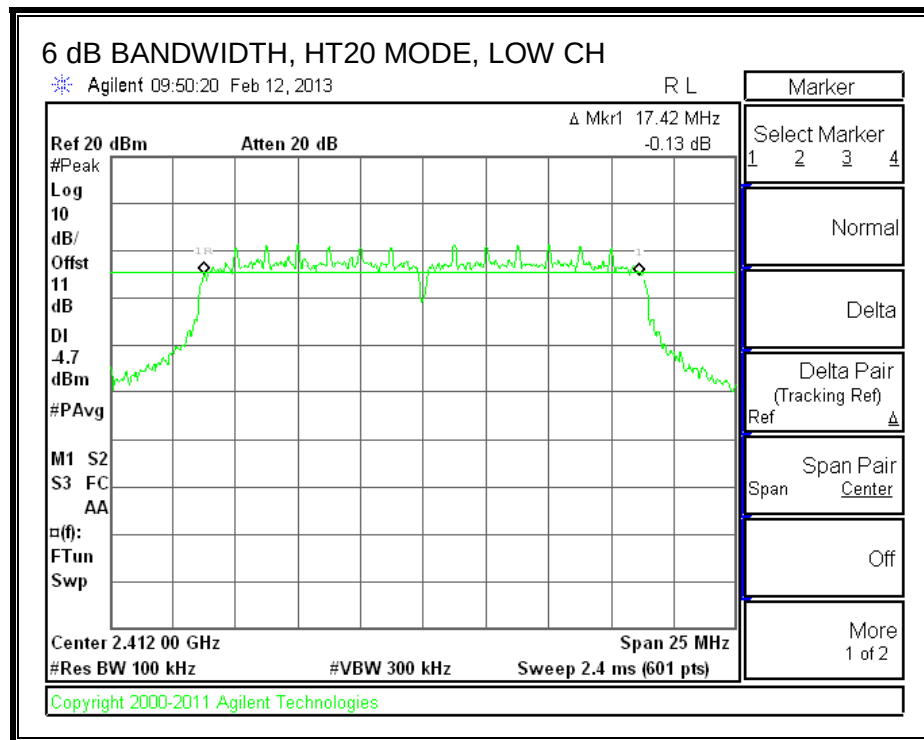


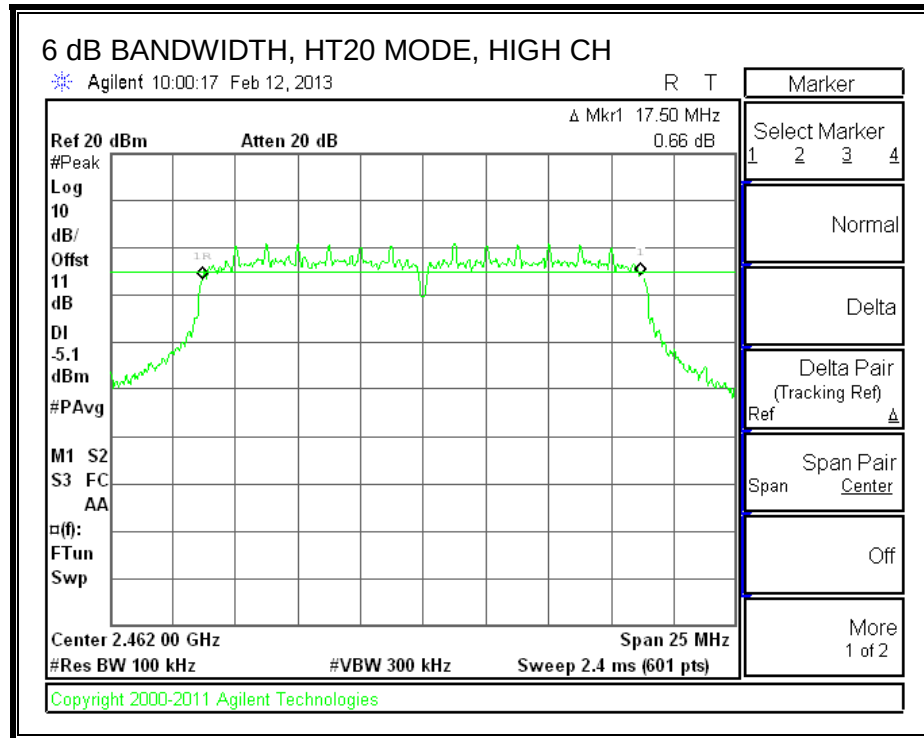
6 dB BANDWIDTH, 802.11g MODE





6 dB BANDWIDTH, HT20 MODE





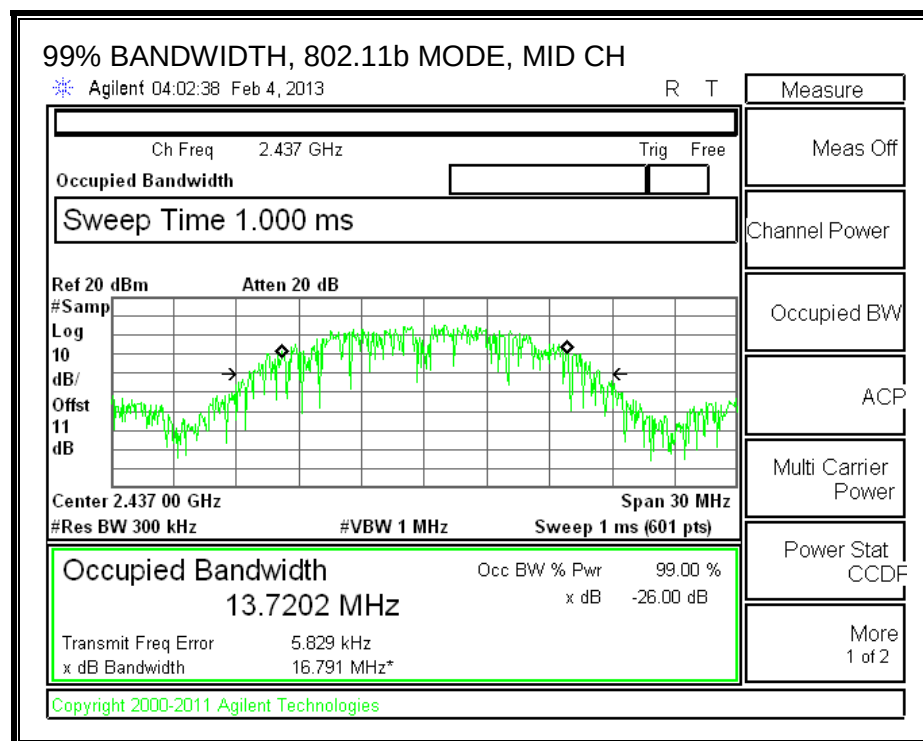
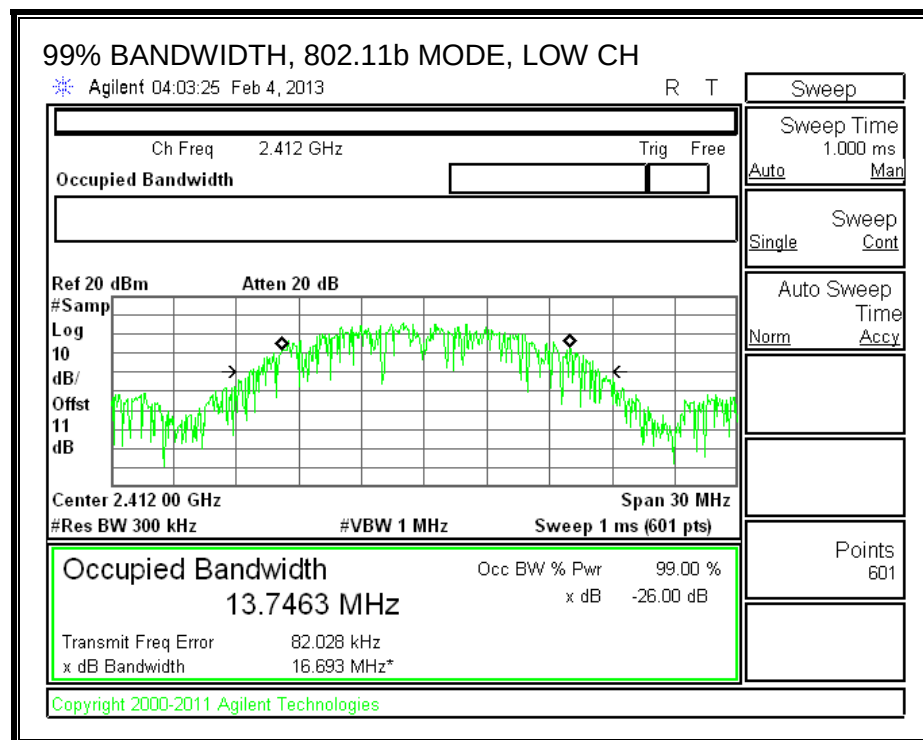
9.1.1. 99% BANDWIDTH

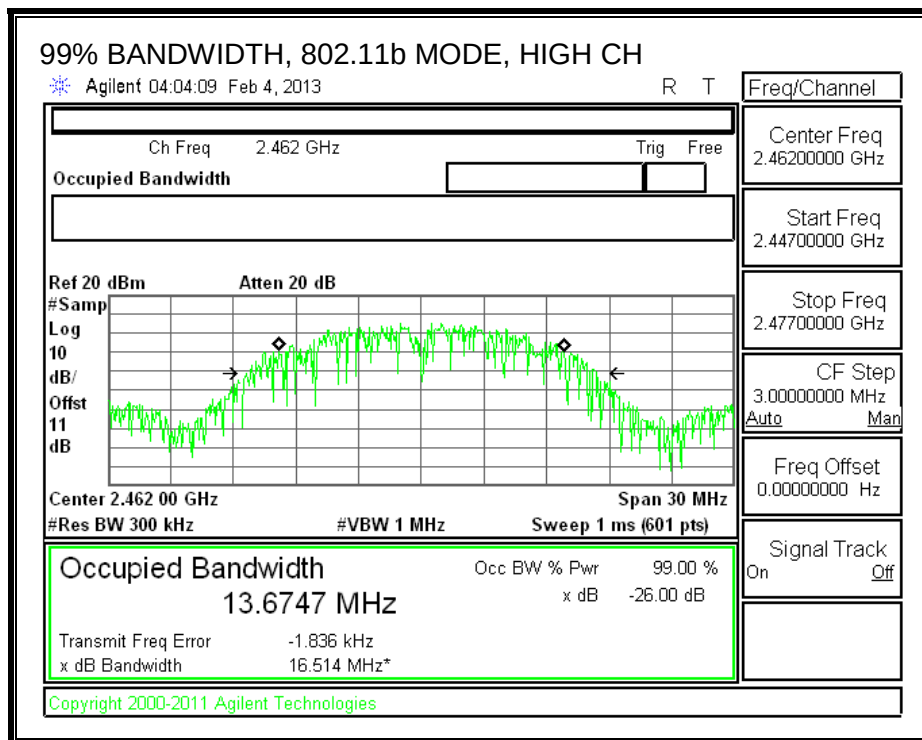
LIMITS

None; for reporting purposes only.

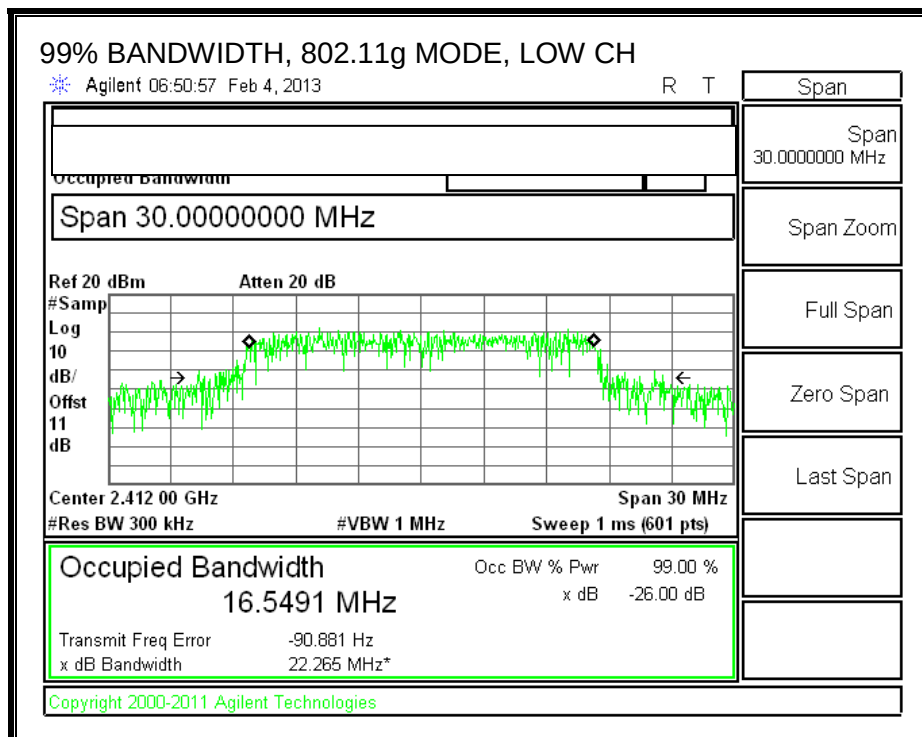
RESULTS

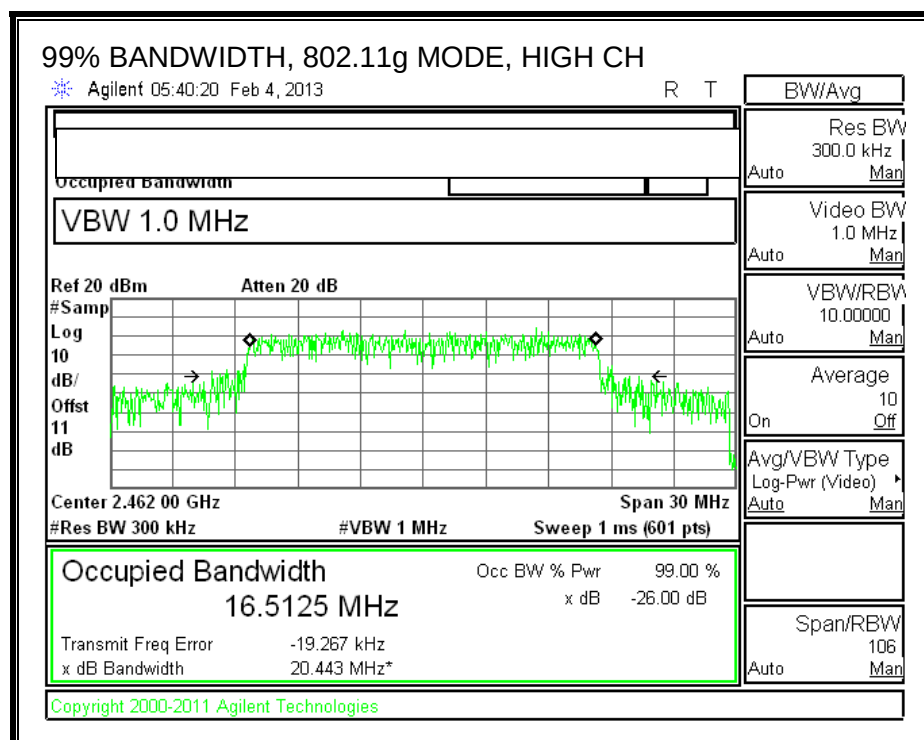
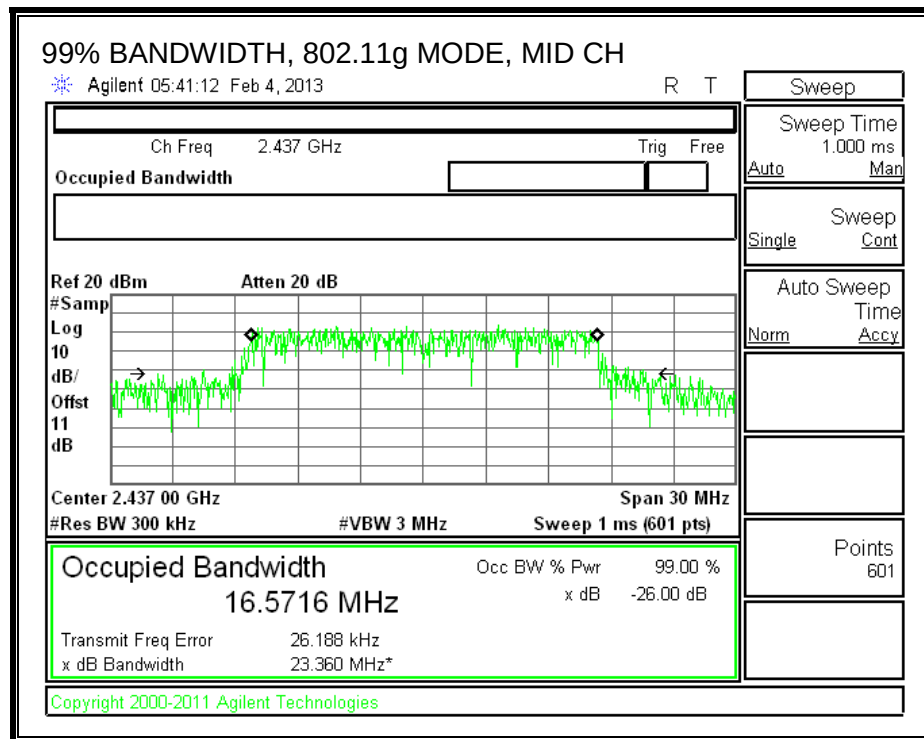
Mode	Channel	Frequency (MHz)	99% Bandwidth (MHz)
802.11b	Low	2412	13.7463
	Mid	2437	13.7202
	High	2462	13.6747
802.11g	Low	2412	16.5491
	Mid	2437	16.5716
	High	2462	16.5125
HT20	Low	2412	17.6408
	Mid	2437	17.5933
	High	2462	17.6375



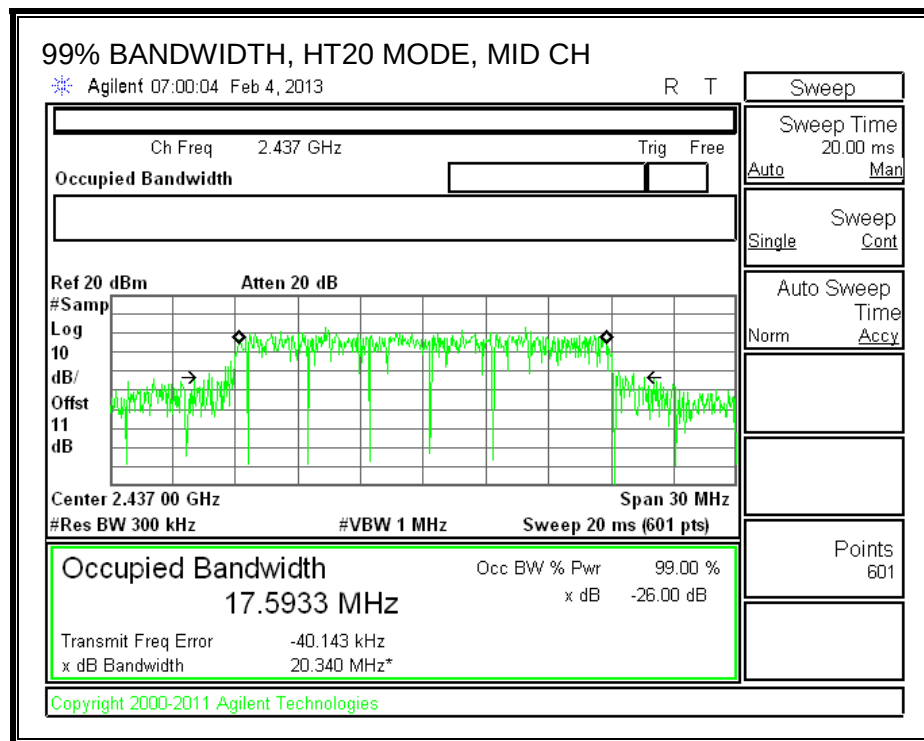
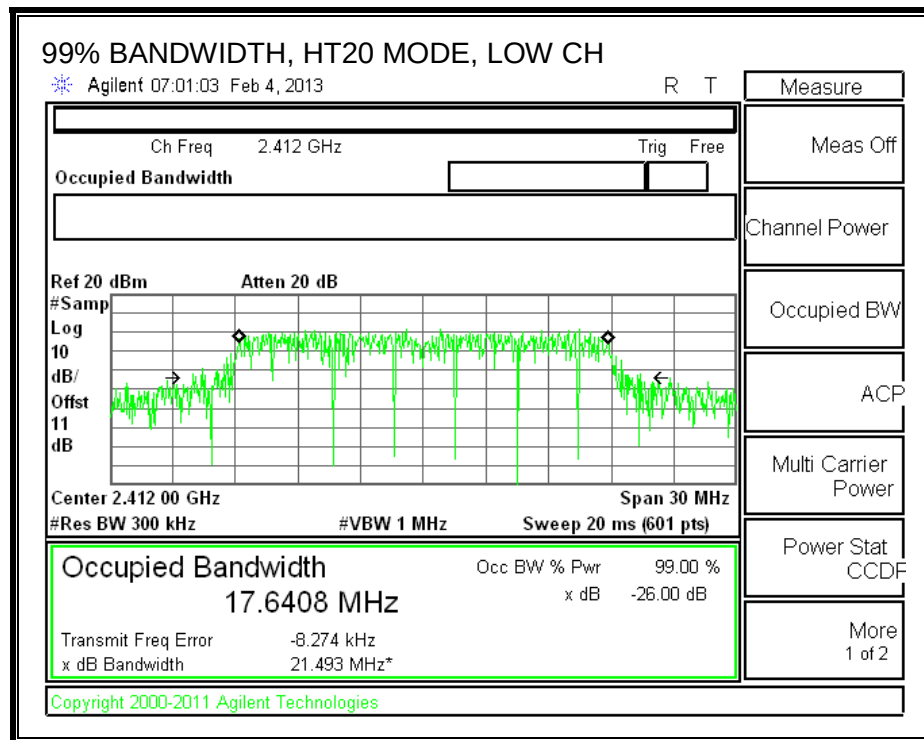


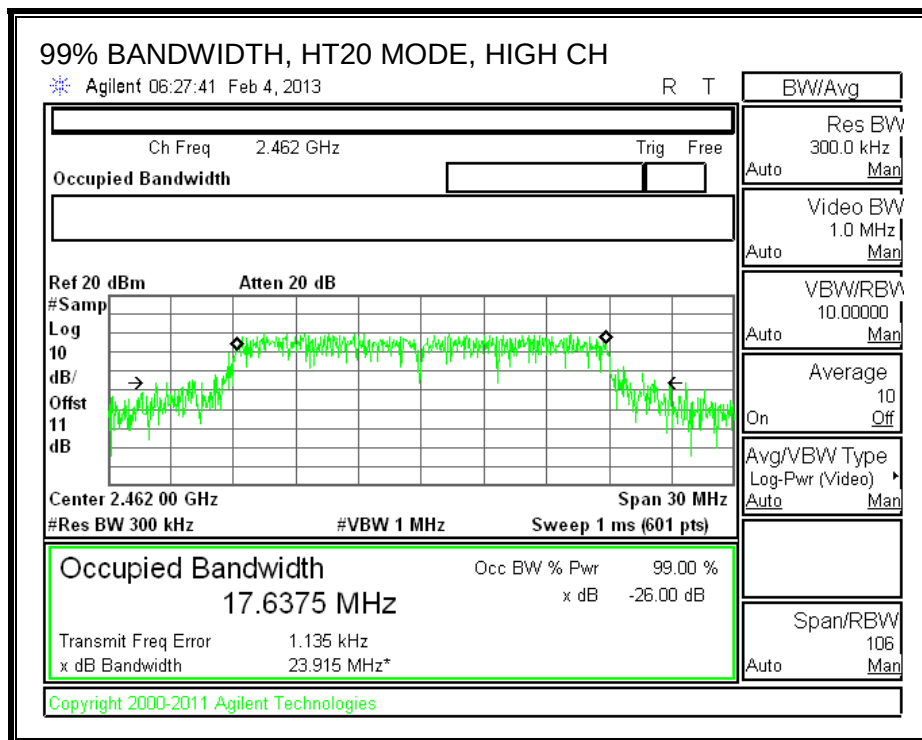
99% BANDWIDTH, 802.11g MODE





99% BANDWIDTH, HT20 MODE





9.1.2. AVERAGE POWER

LIMITS

None; for reporting purposes only.

TEST PROCEDURE

The transmitter output is connected to a power meter.

The cable assembly insertion loss of 11 dB (including 10 dB pad and 1 dB cable) was entered as an offset in the power meter to allow for direct reading of power.

RESULTS

Mode	Channel	Frequency (MHz)	Power (dBm)
802.11b	Low	2412	14.60
	Mid	2437	14.40
	High	2462	14.20
802.11g	Low	2412	13.70
	Mid	2437	14.12
	High	2462	13.70
HT20	Low	2412	12.26
	Mid	2437	12.49
	High	2462	12.15

9.1.3. OUTPUT POWER

LIMITS

FCC §15.247

IC RSS-210 A8.4

For systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt, based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

DIRECTIONAL ANTENNA GAIN

There is only one transmitter output therefore the directional gain is equal to the antenna gain.

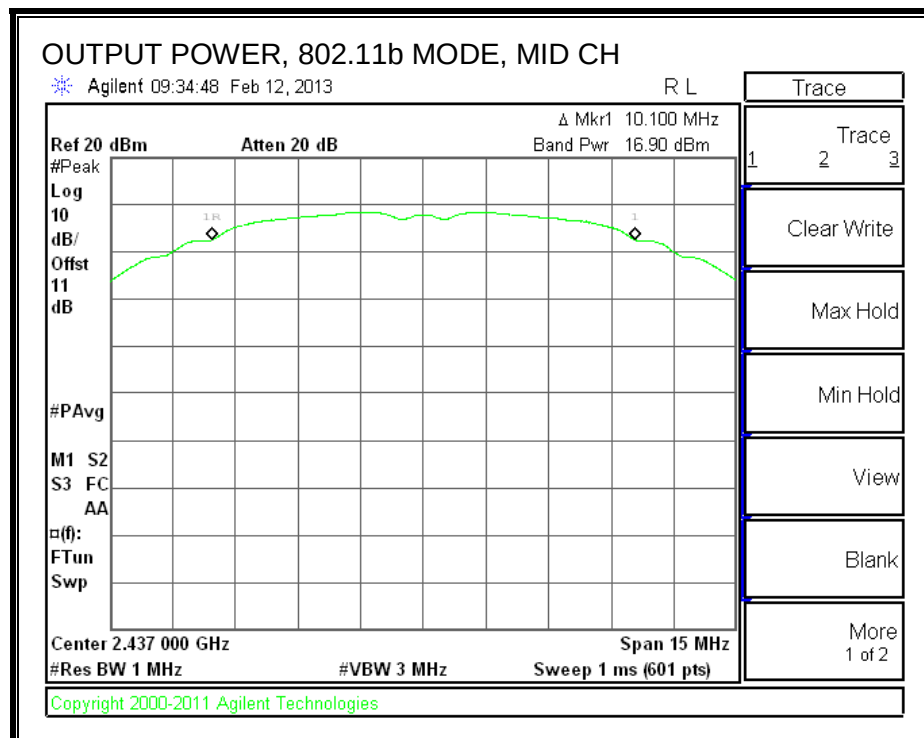
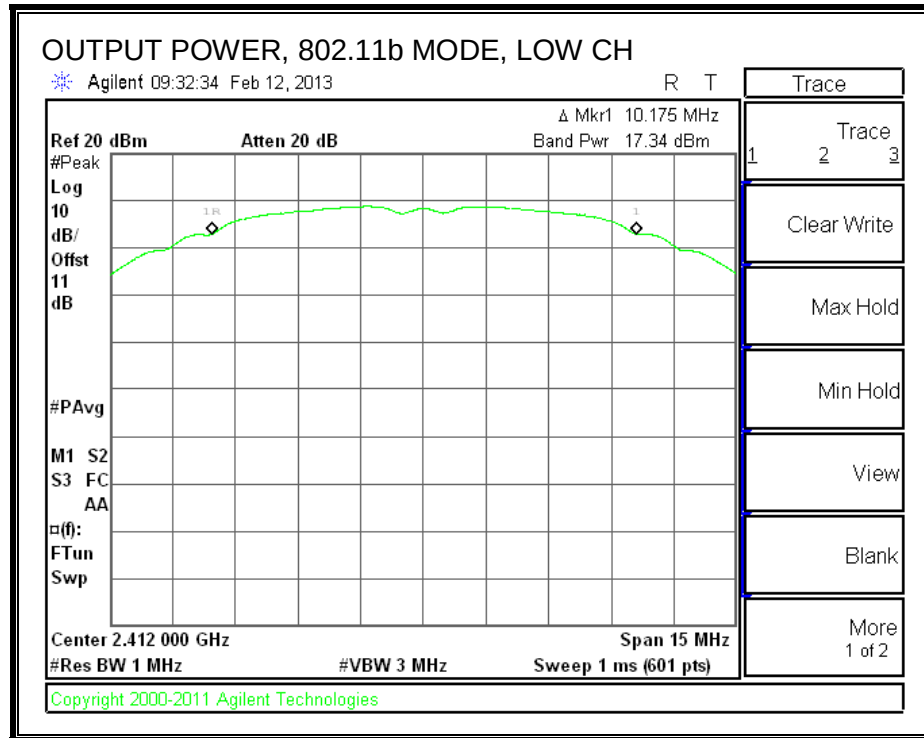
RESULTS

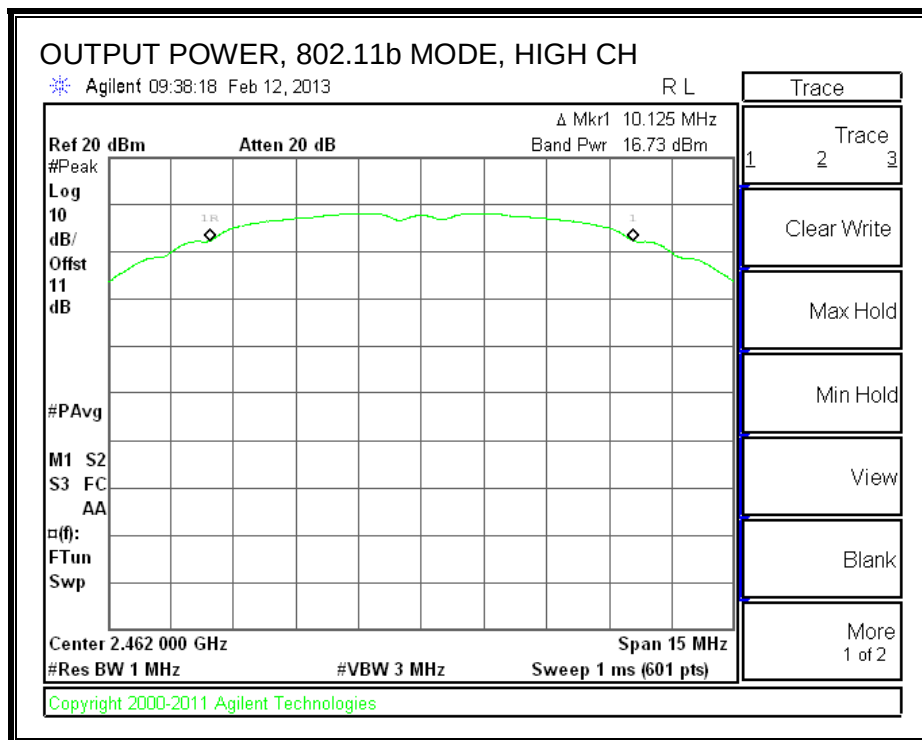
Mode	Channel	Frequency (MHz)	Directional Gain (dBi)	FCC Power Limit (dBm)	IC Power Limit (dBm)	IC EIRP Limit (dBm)	Max (dBm)
802.11b	Low	2412	-3.80	30.00	30	36	30.00
	Mid	2437	-3.80	30.00	30	36	30.00
	High	2462	-3.80	30.00	30	36	30.00
802.11g	Low	2412	-3.80	30.00	30	36	30.00
	Mid	2437	-3.80	30.00	30	36	30.00
	High	2462	-3.80	30.00	30	36	30.00
HT20	Low	2412	-3.80	30.00	30	36	30.00
	Mid	2437	-3.80	30.00	30	36	30.00
	High	2462	-3.80	30.00	30	36	30.00

Results

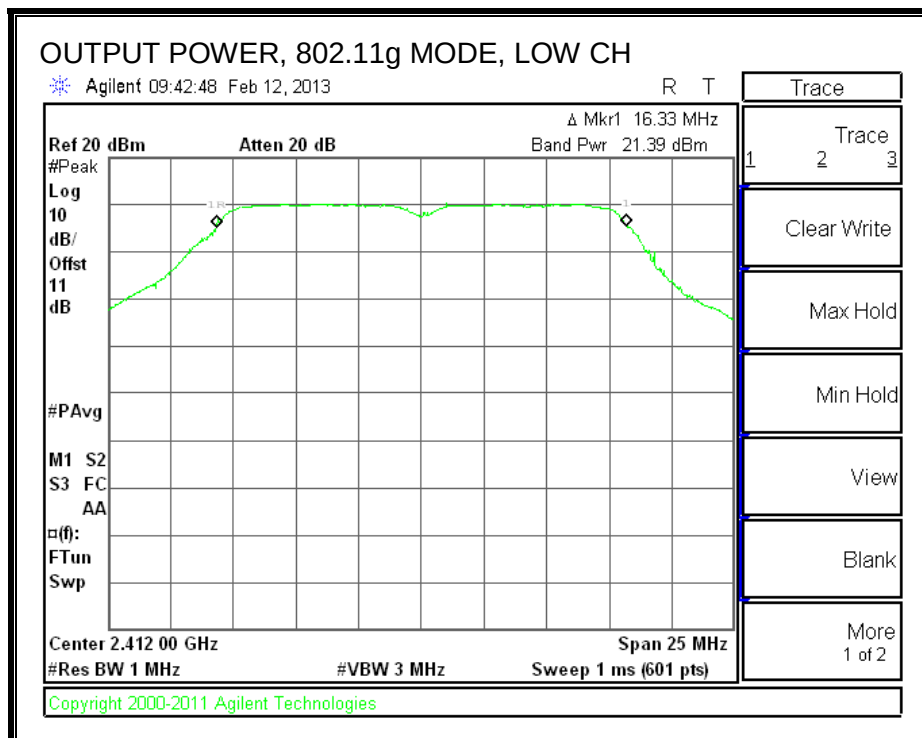
Mode	Channel	Frequency (MHz)	Total Power (dBm)	Power Limit (dBm)	Margin (dB)
802.11b	Low	2412	17.34	30.00	-12.66
	Mid	2437	16.90	30.00	-13.10
	High	2462	16.73	30.00	-13.27
802.11g	Low	2412	21.39	30.00	-8.61
	Mid	2437	21.72	30.00	-8.28
	High	2462	21.25	30.00	-8.75
HT20	Low	2412	20.02	30.00	-9.98
	Mid	2437	20.36	30.00	-9.64
	High	2462	19.69	30.00	-10.31

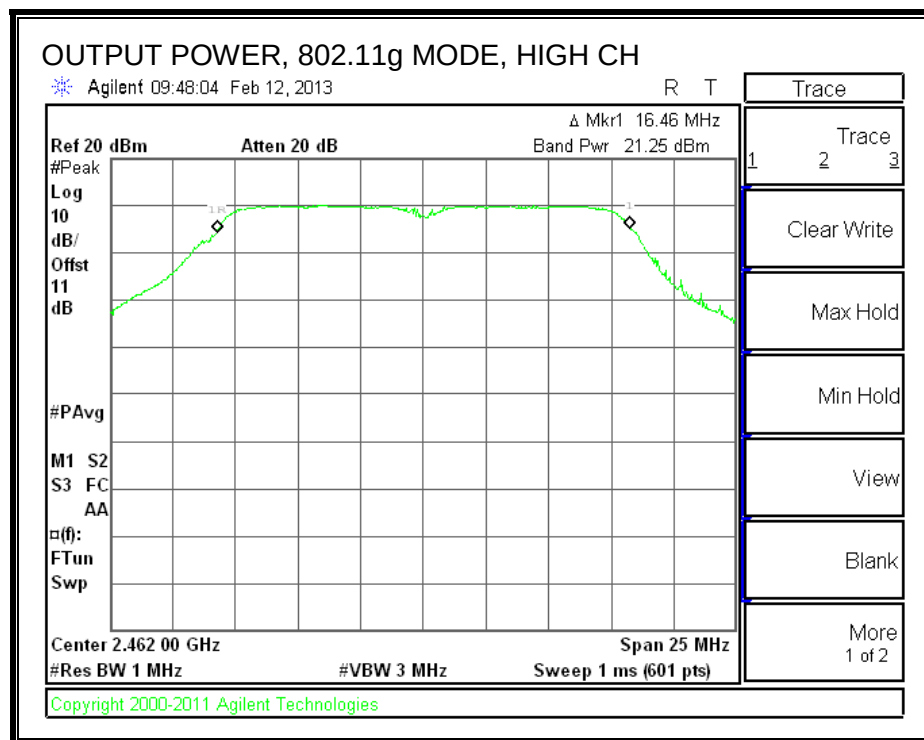
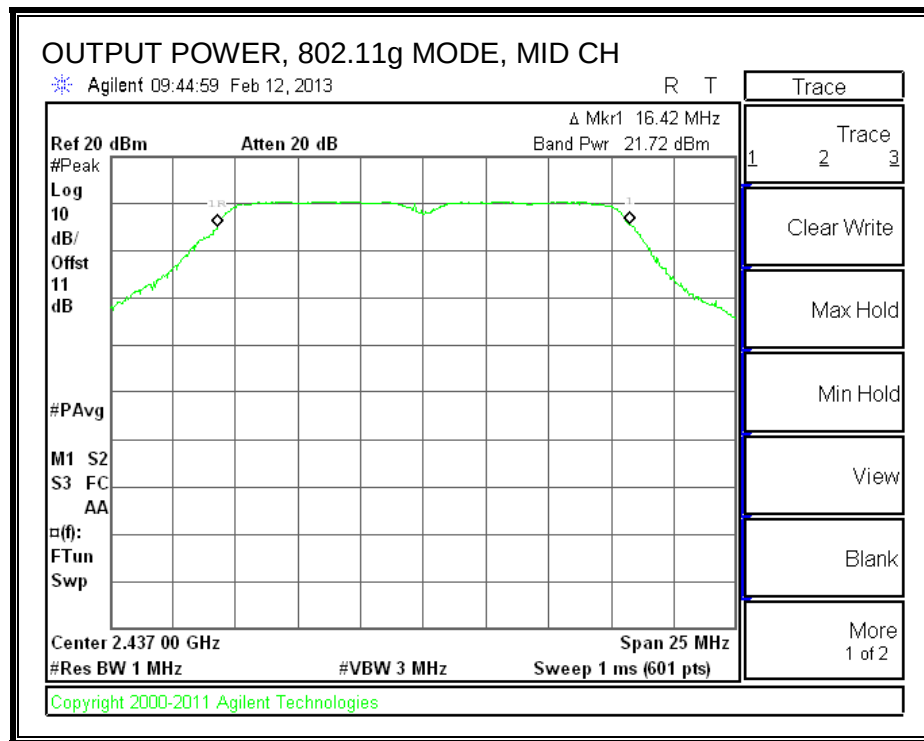
OUTPUT POWER, 802.11b MODE



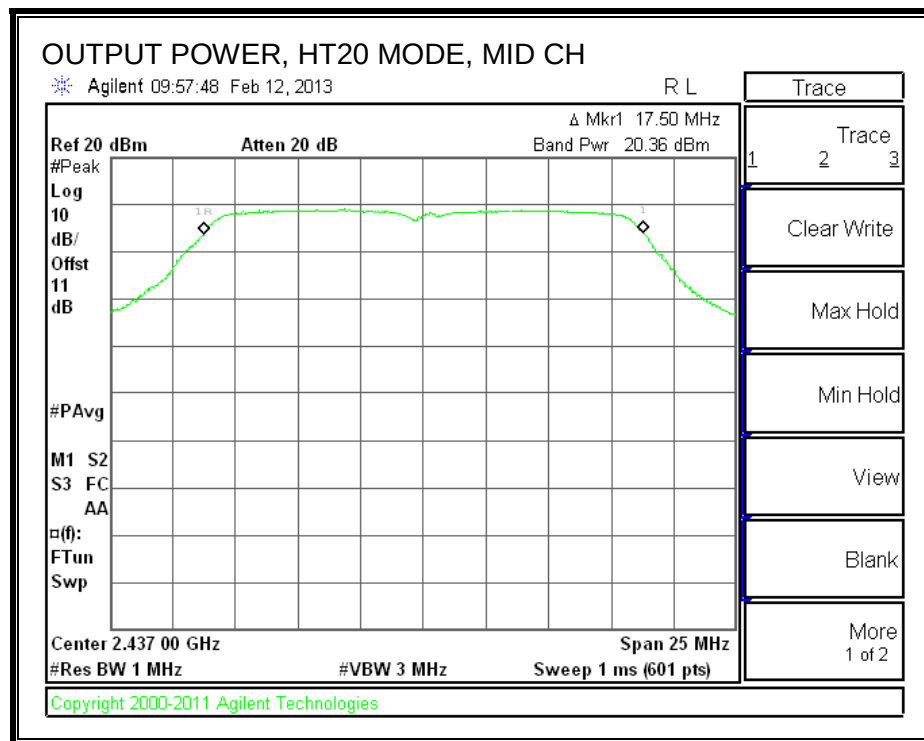
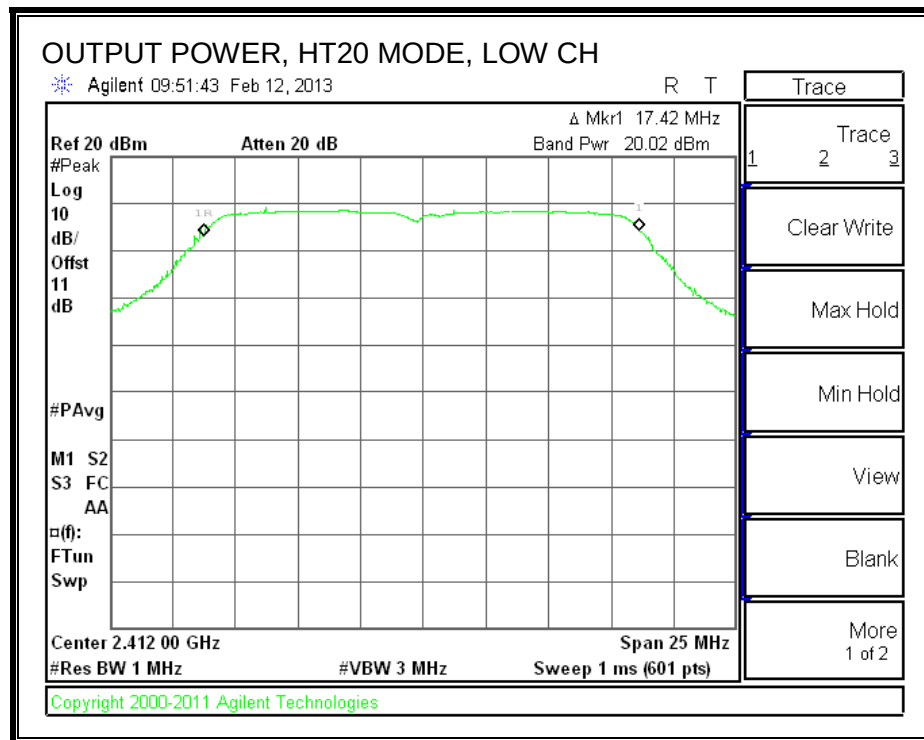


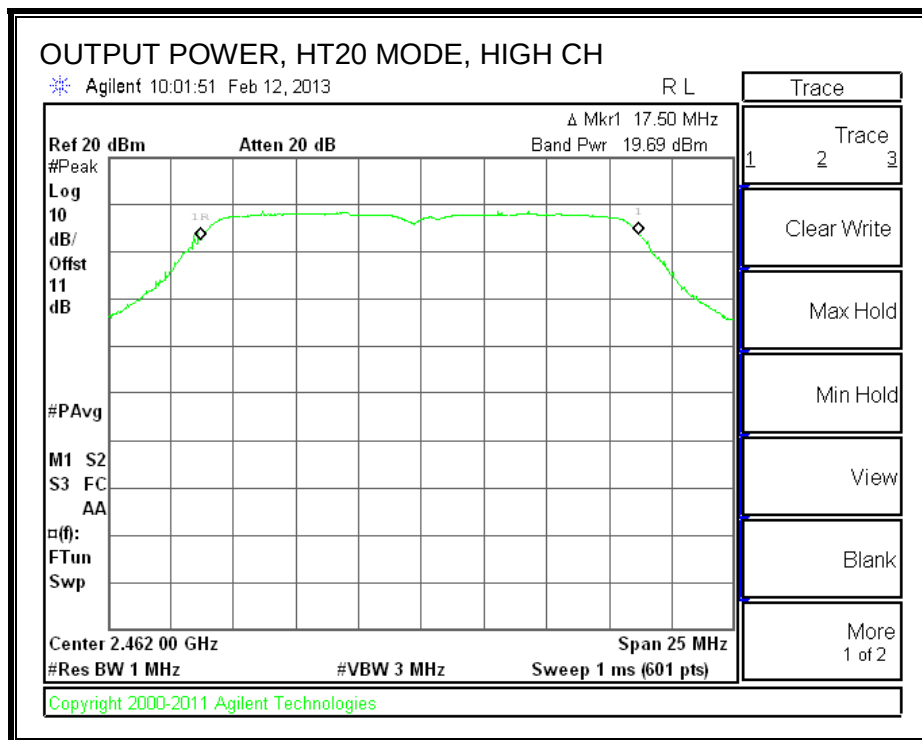
OUTPUT POWER, 802.11g MODE





OUTPUT POWER, HT20 MODE





9.1.4. POWER SPECTRAL DENSITY

LIMITS

FCC §15.247

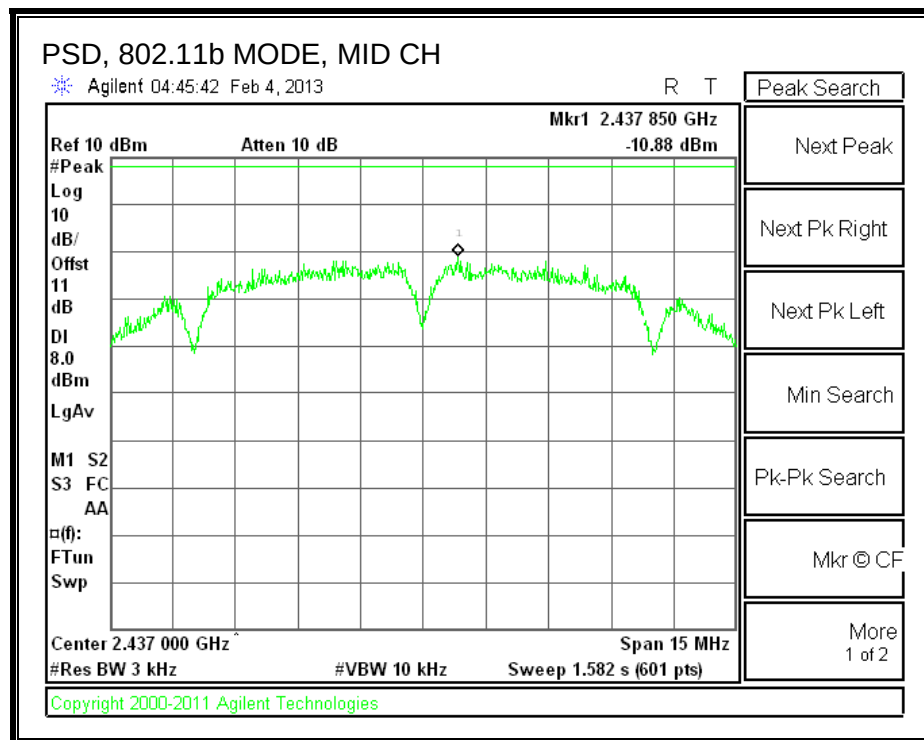
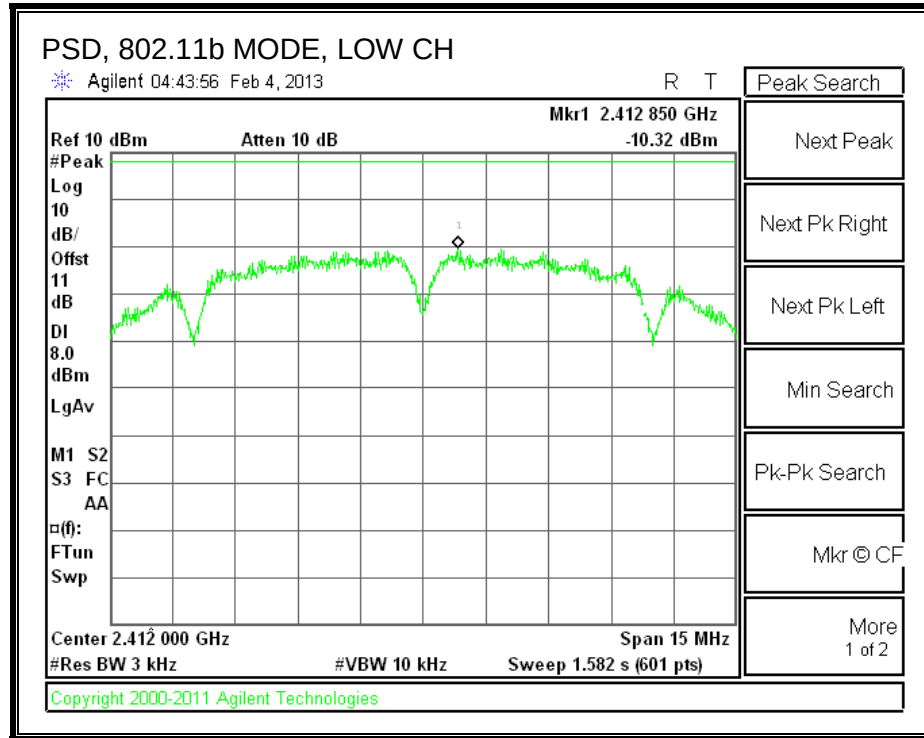
IC RSS-210 A8.2

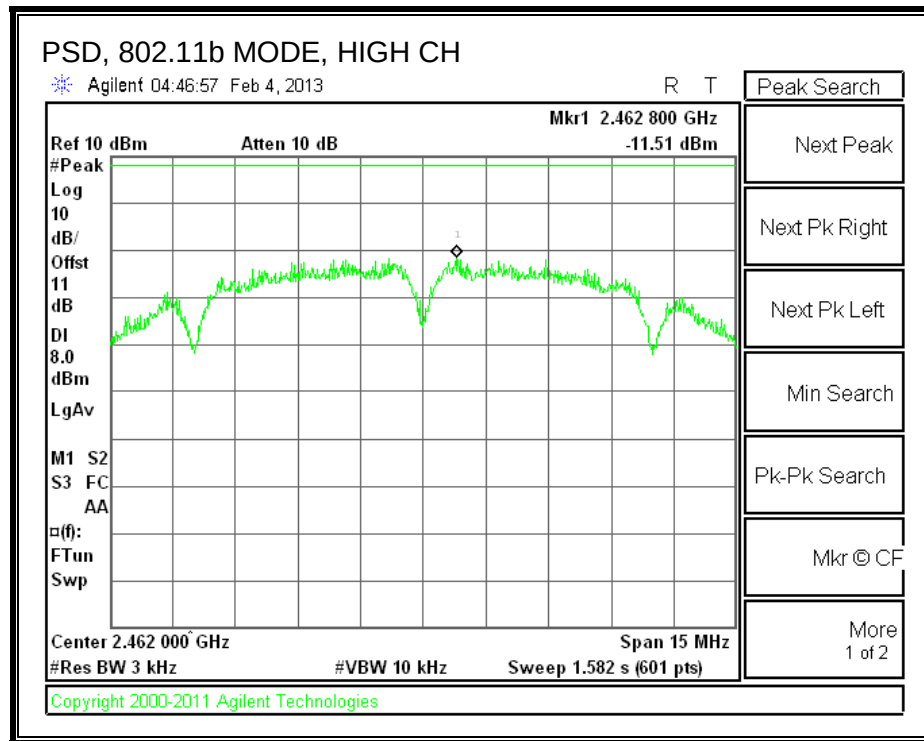
RESULTS

PSD Results

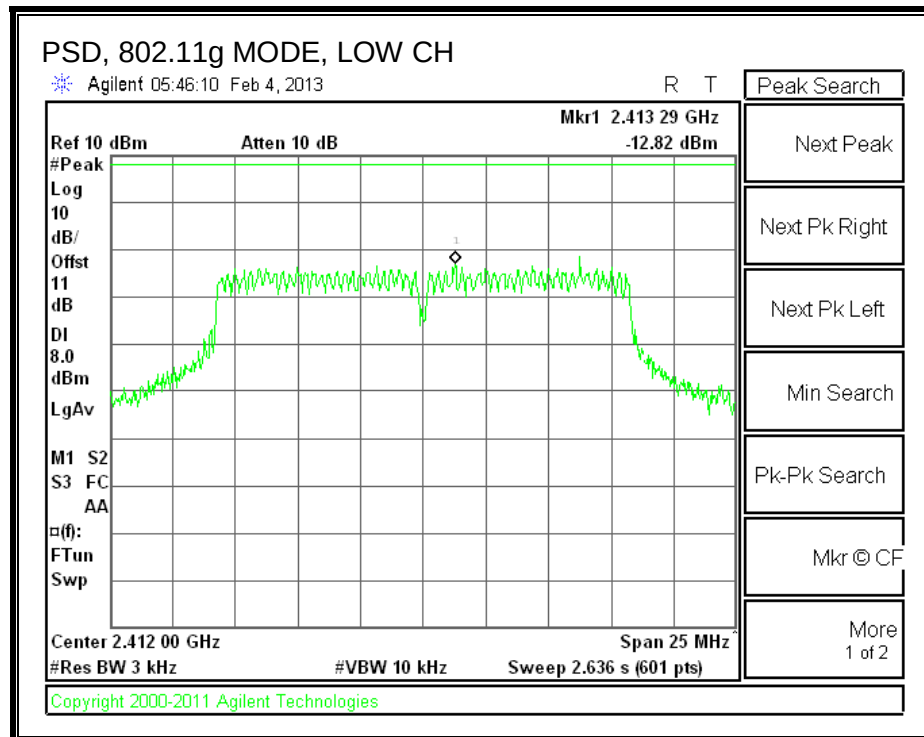
Mode	Channel	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Margin (dB)
802.11b	Low	2412	-10.32	8.0	-18.3
	Mid	2437	-10.88	8.0	-18.9
	High	2462	-11.51	8.0	-19.5
802.11g	Low	2412	-12.82	8.0	-20.8
	Mid	2437	-13.25	8.0	-21.3
	High	2462	-13.45	8.0	-21.5
HT20	Low	2412	-13.87	8.0	-21.9
	Mid	2437	-14.04	8.0	-22.0
	High	2462	-14.72	8.0	-22.7

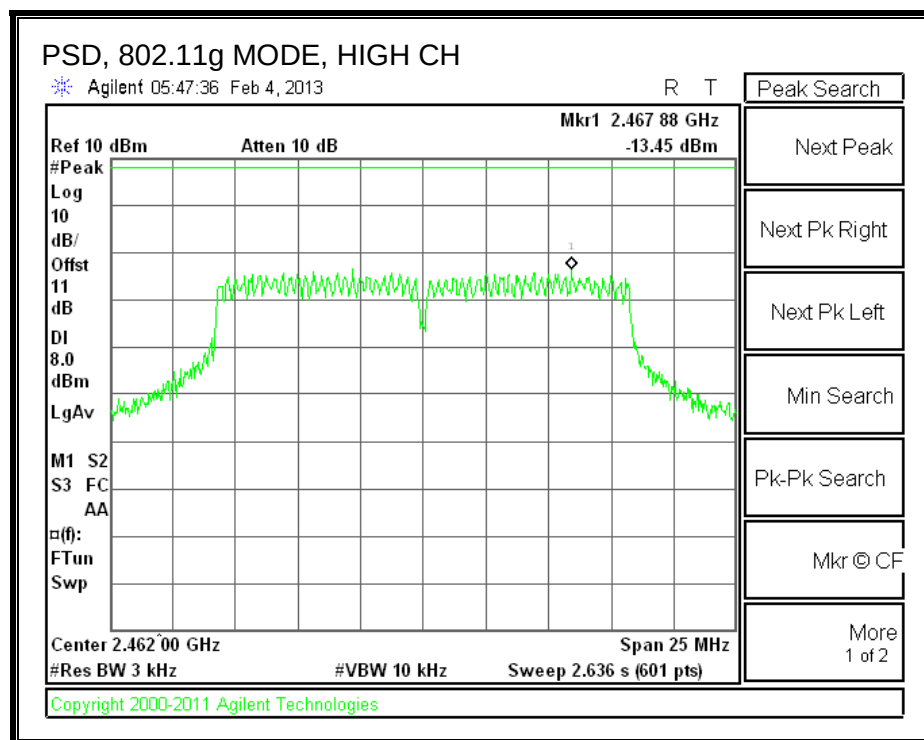
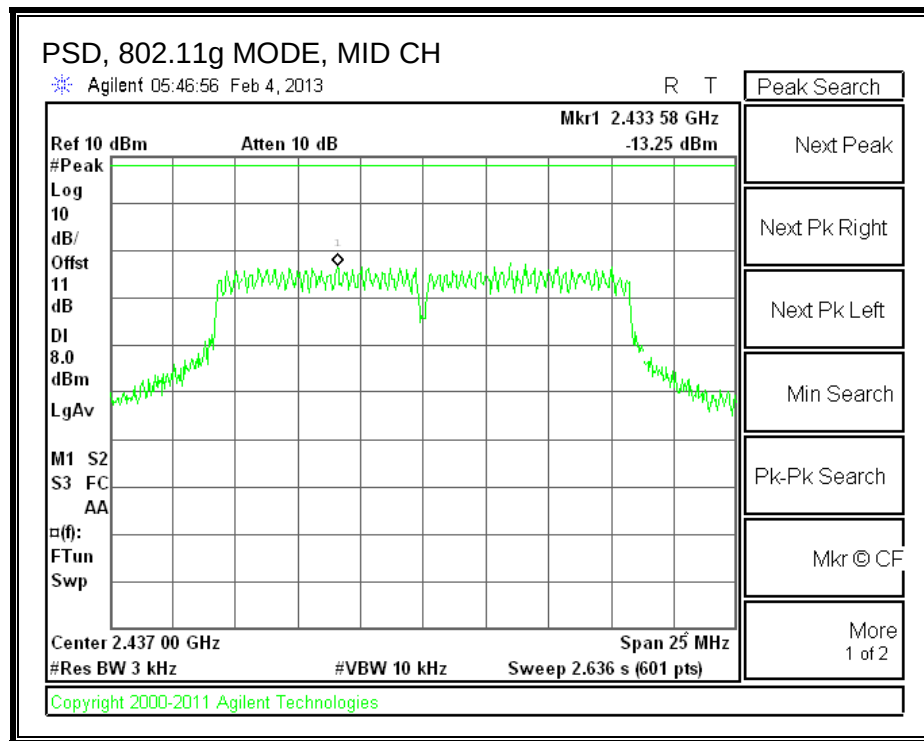
PSD, 802.11b MODE



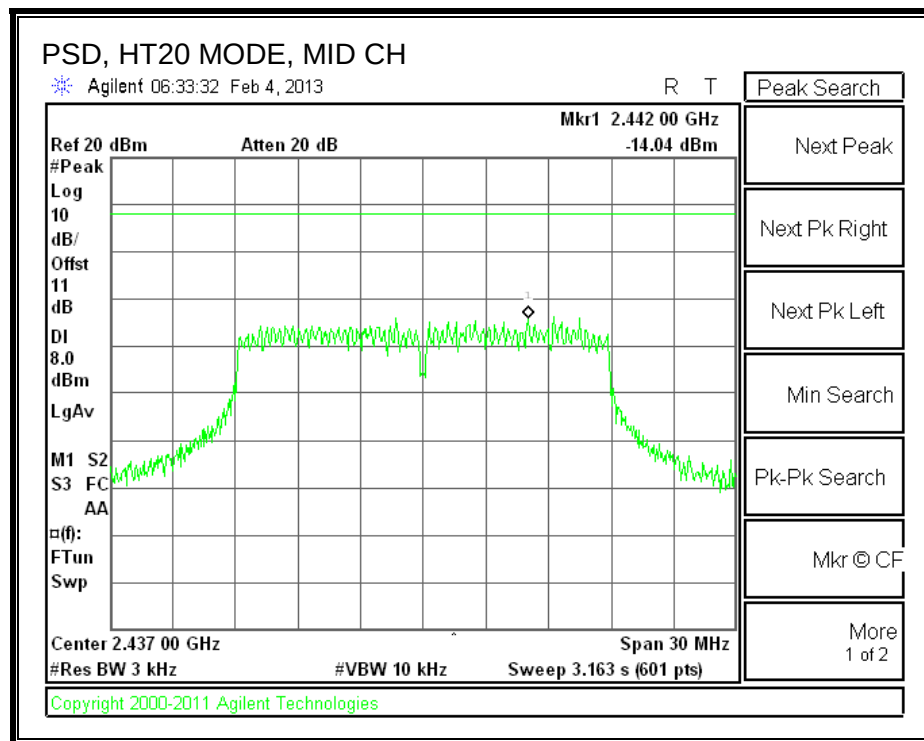
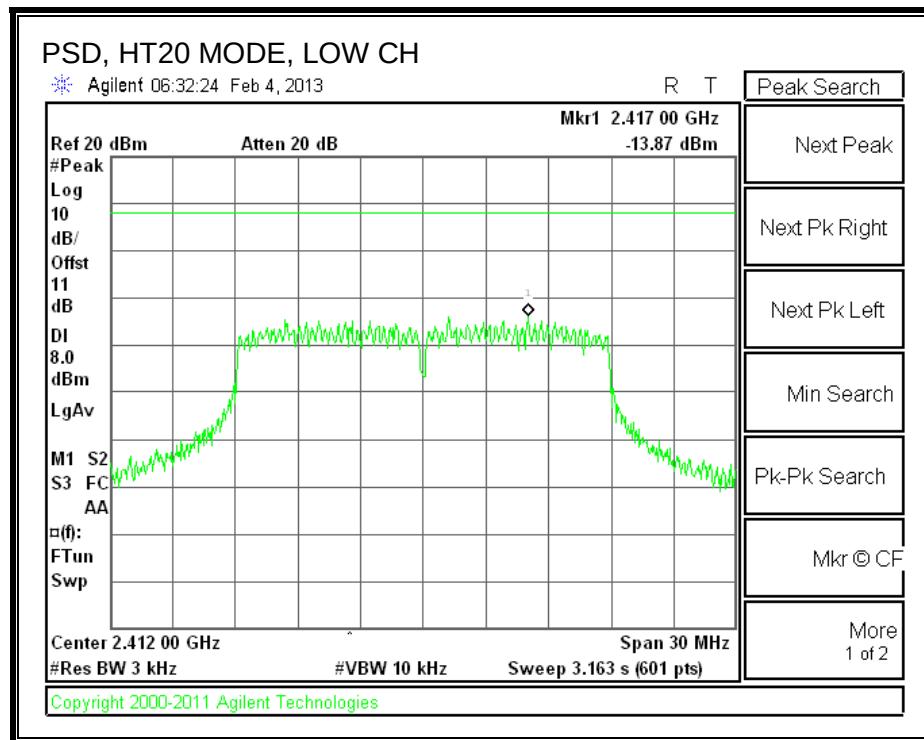


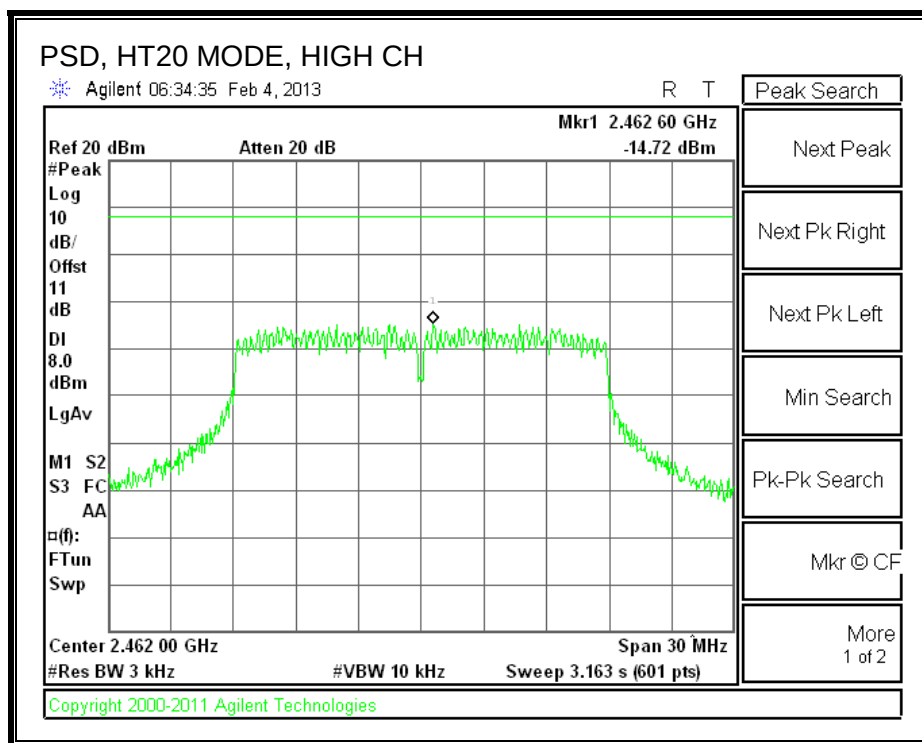
PSD, 802.11g MODE





PSD, HT20 MODE





9.1.5. OUT-OF-BAND EMISSIONS

LIMITS

FCC §15.247 (d)

IC RSS-210 A8.5

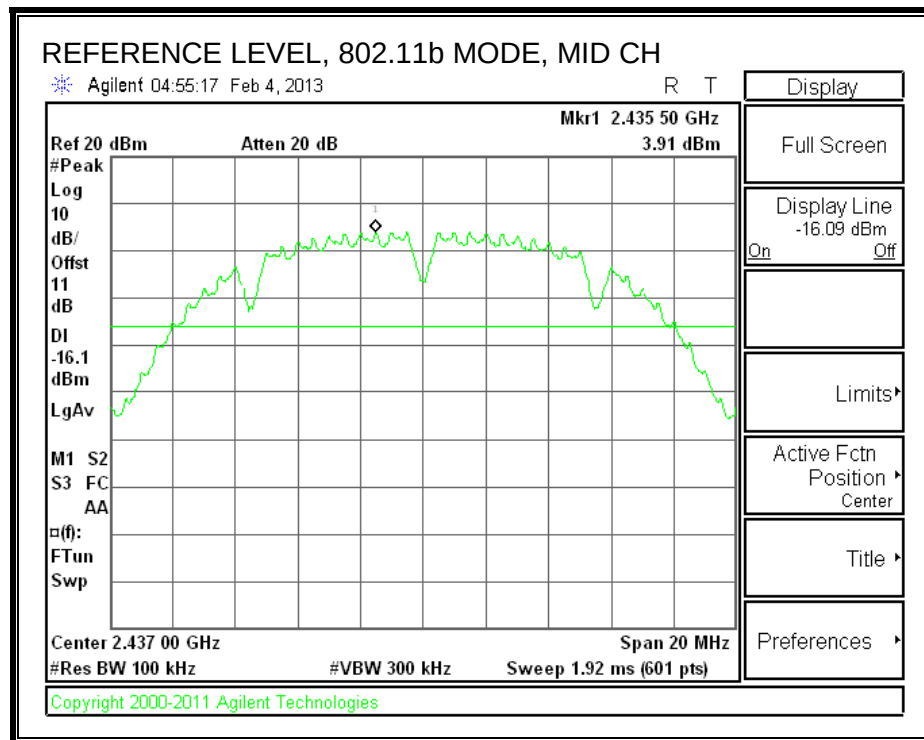
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

TEST PROCEDURE

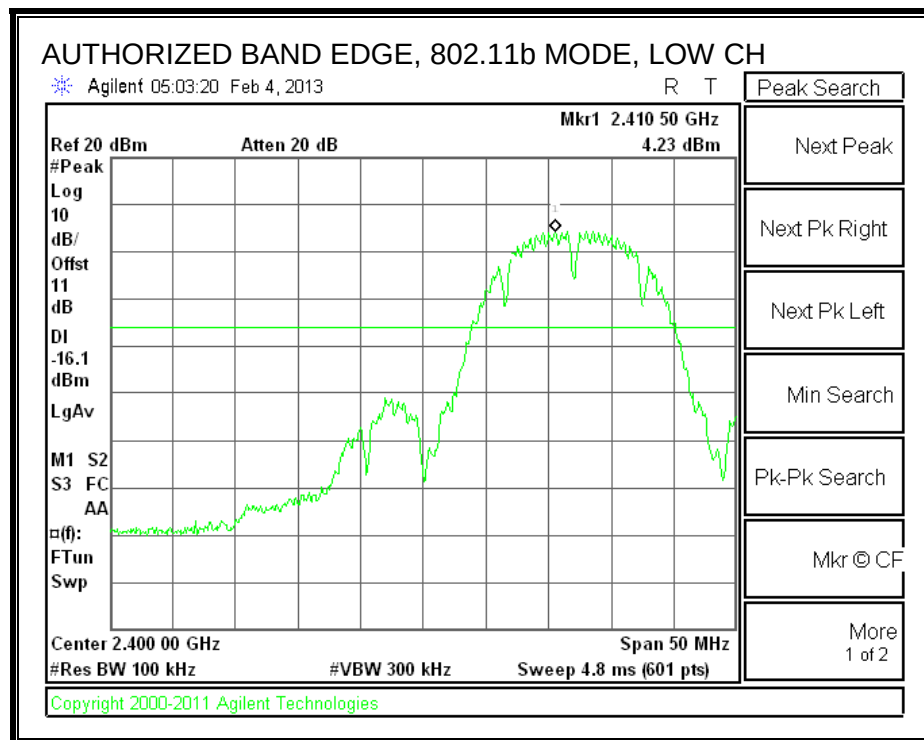
The transmitter output is connected to a spectrum analyzer with RBW = 100 kHz, VBW = 300 kHz, peak detector, and max hold. Measurements utilizing these settings are made of the in-band reference level, bandedge (where measurements to the general radiated limits will not be made) and out-of-band emissions.

RESULTS

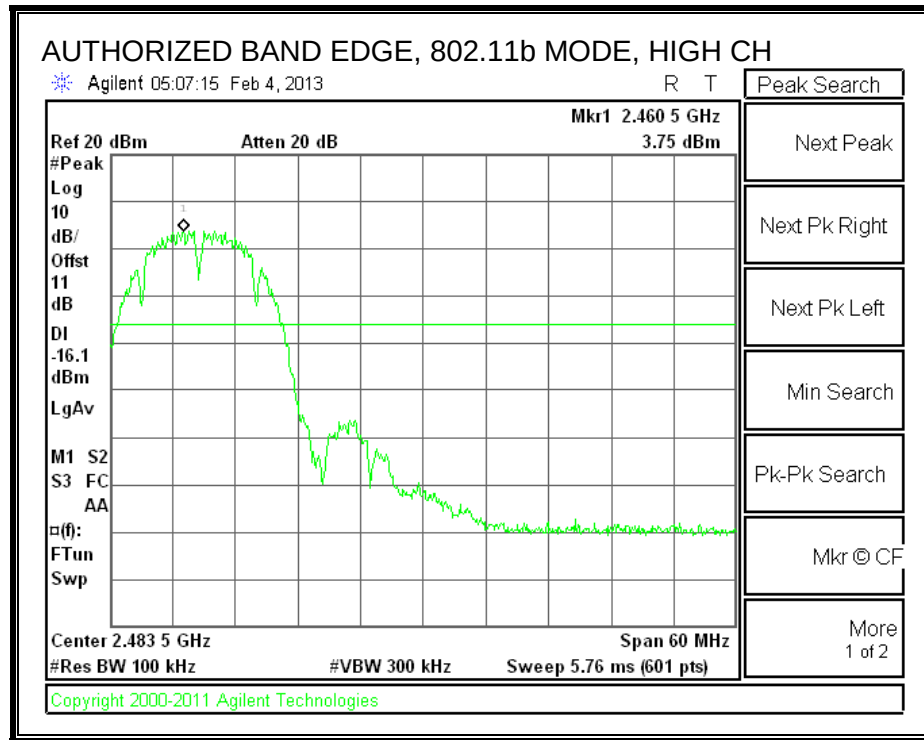
IN-BAND REFERENCE LEVEL, 802.11b MODE



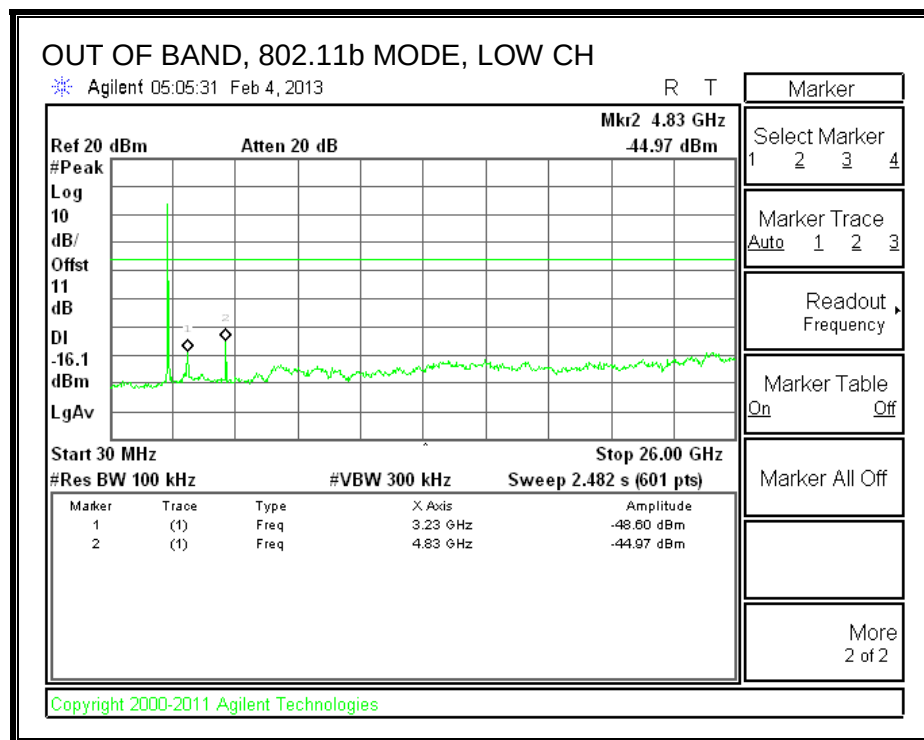
LOW CHANNEL BANDEDGE, 802.11b MODE

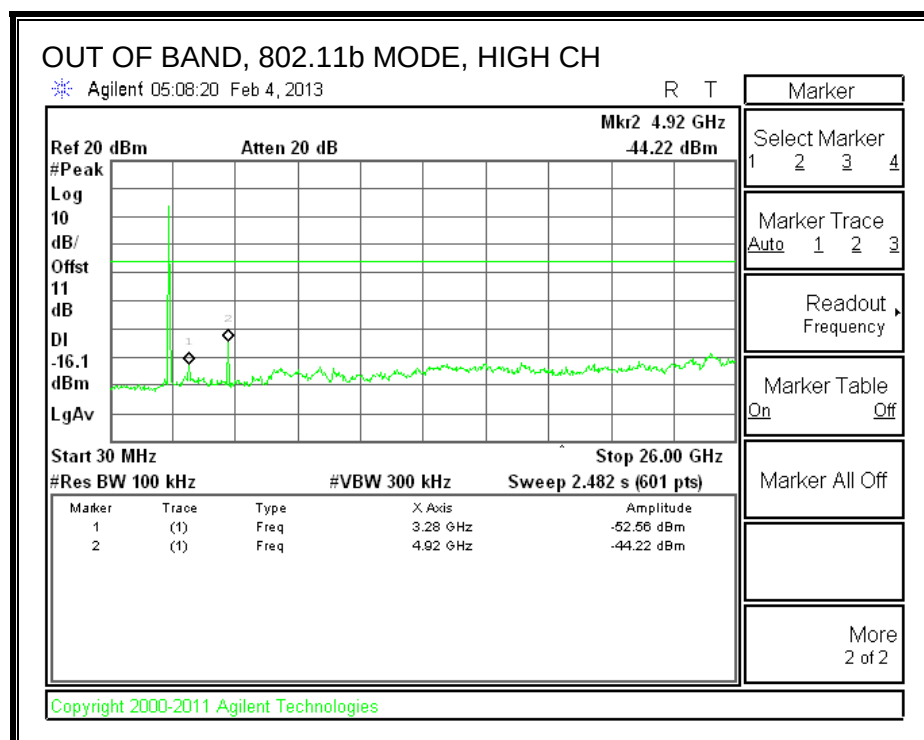
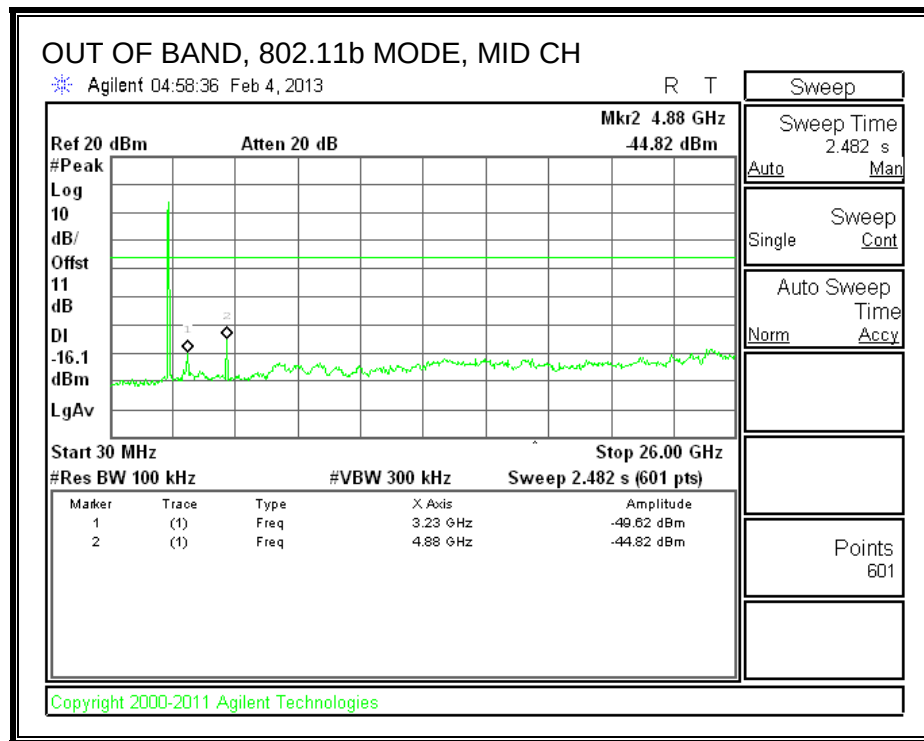


HIGH CHANNEL BANDEDGE, 802.11b MODE

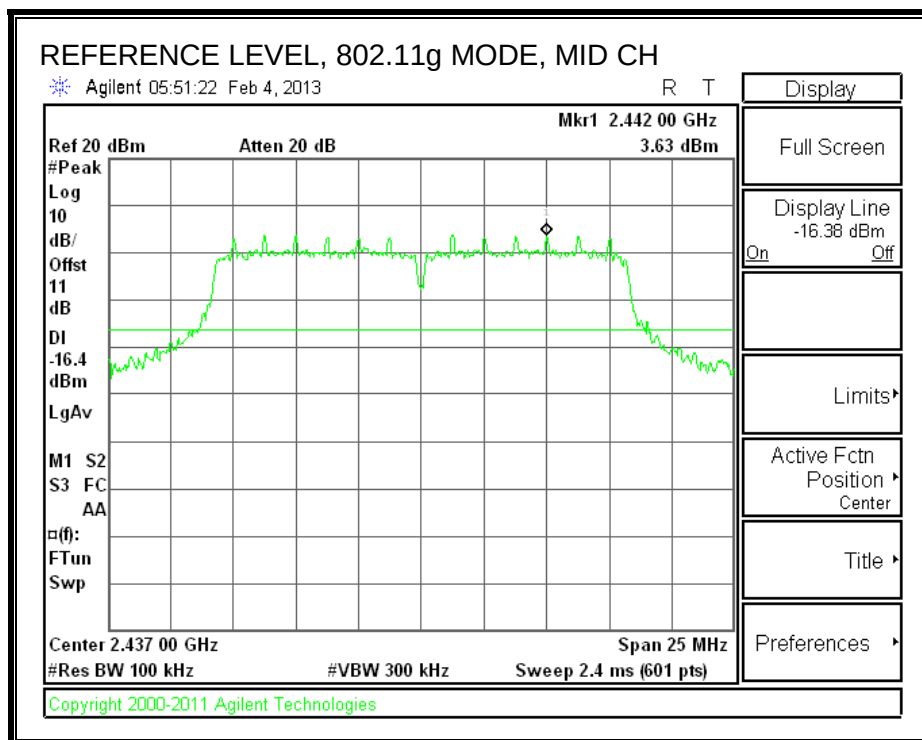


OUT-OF-BAND EMISSIONS, 802.11b MODE

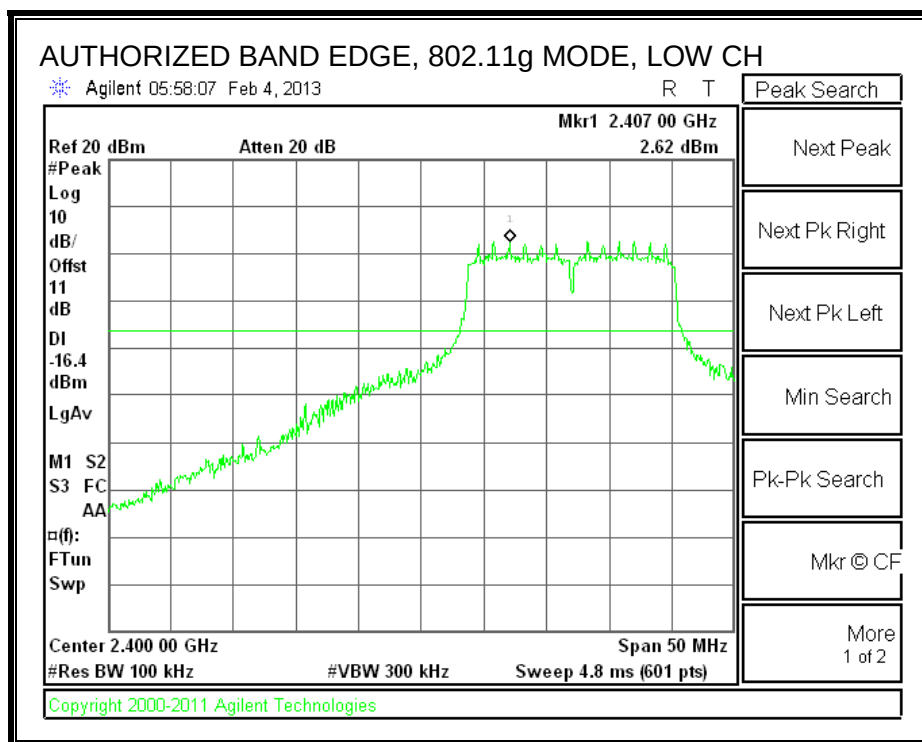




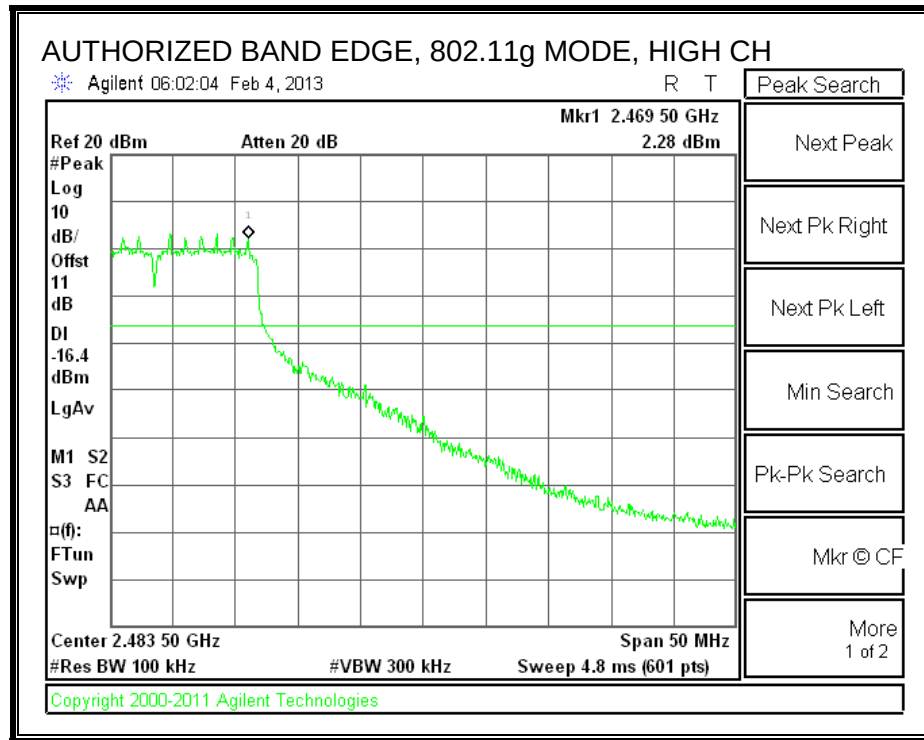
IN-BAND REFERENCE LEVEL, 802.11g MODE



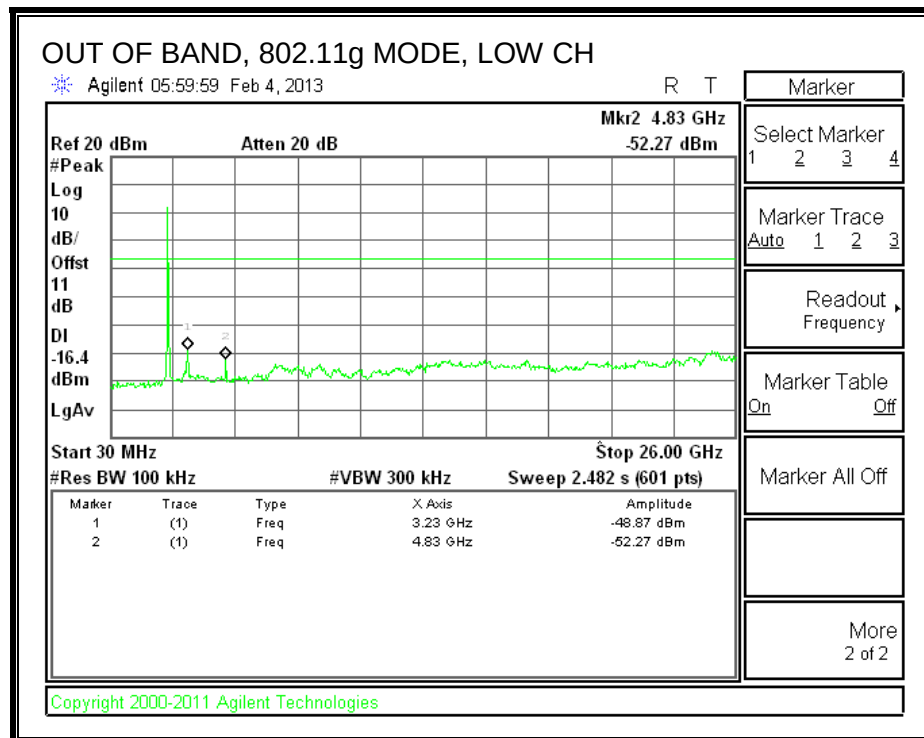
LOW CHANNEL BANDEDGE, 802.11g MODE

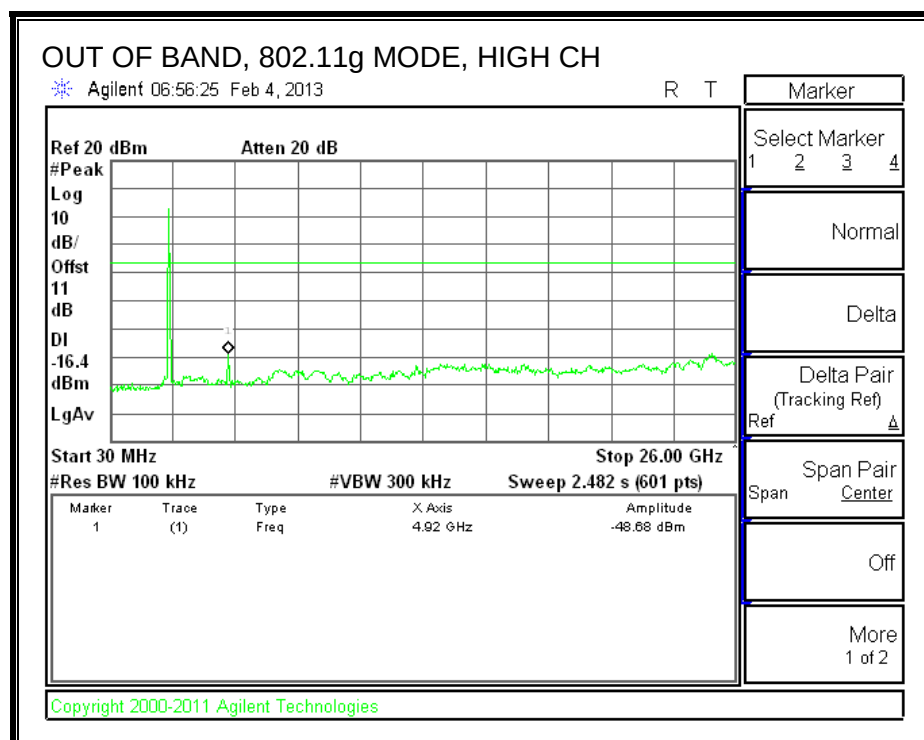
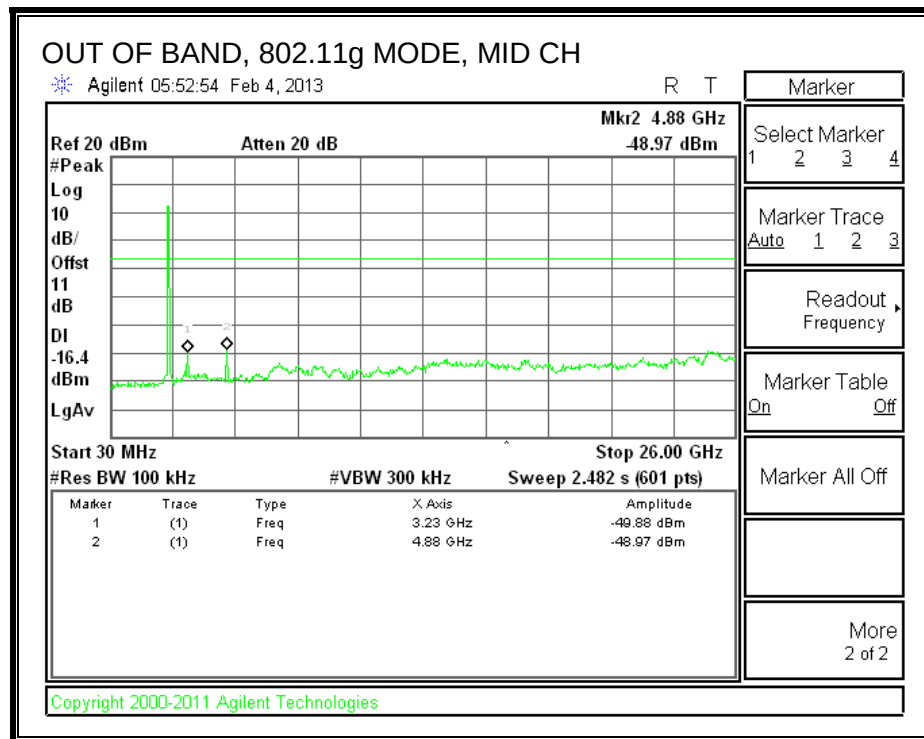


HIGH CHANNEL BANDEDGE, 802.11g MODE

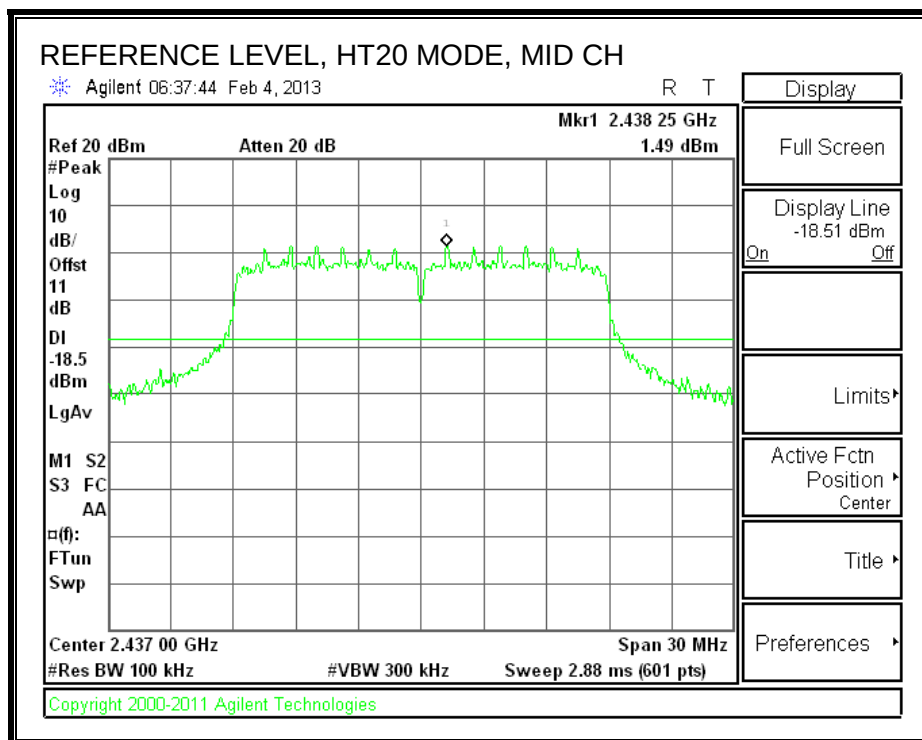


OUT-OF-BAND EMISSIONS, 802.11g MODE

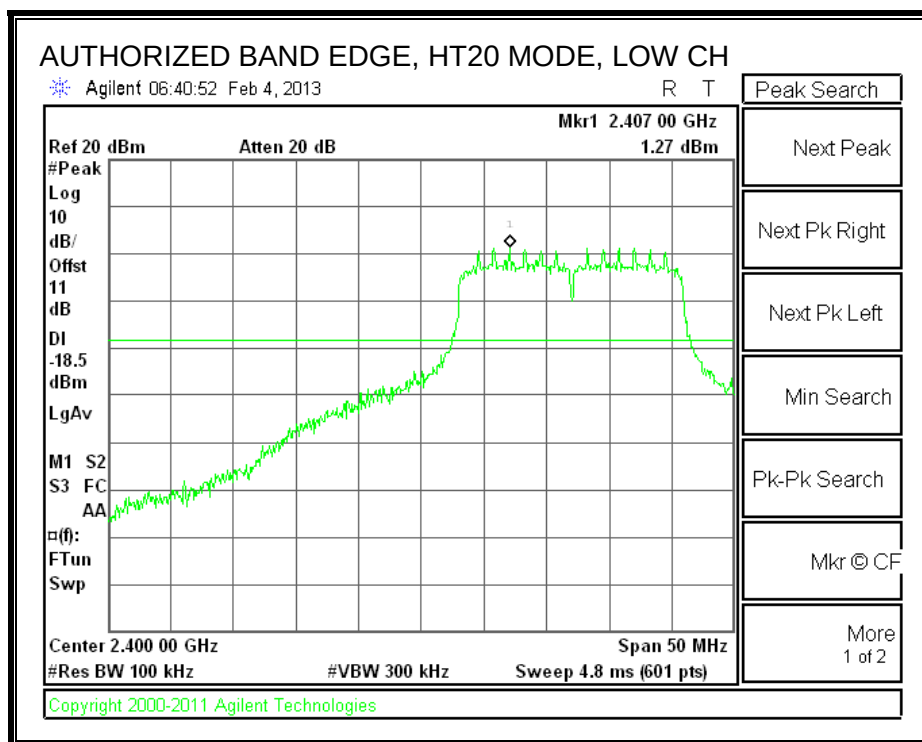




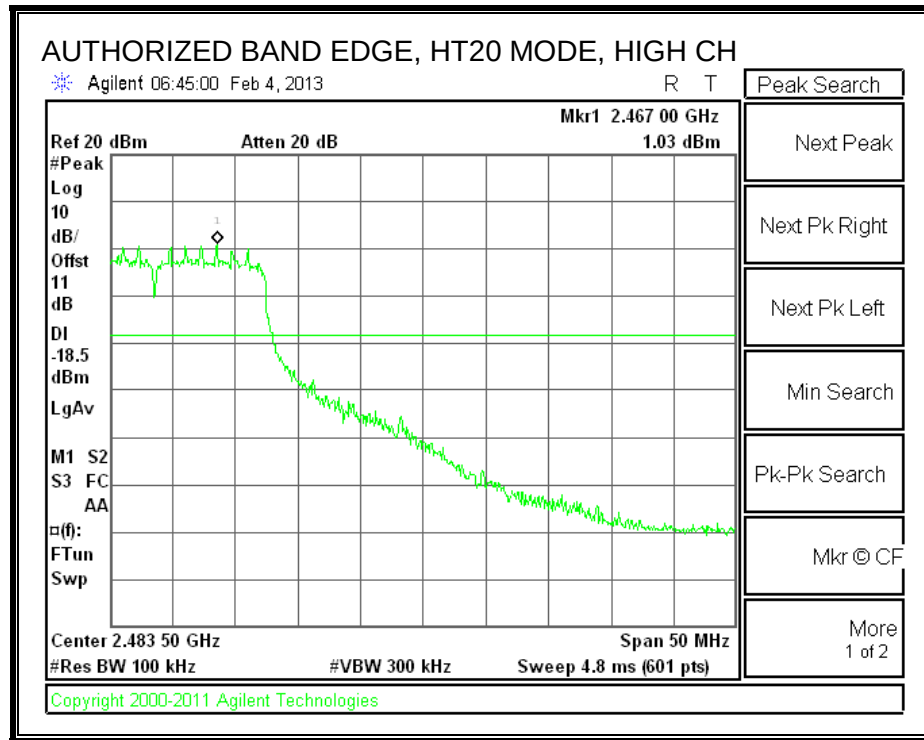
IN-BAND REFERENCE LEVEL, HT20 MODE



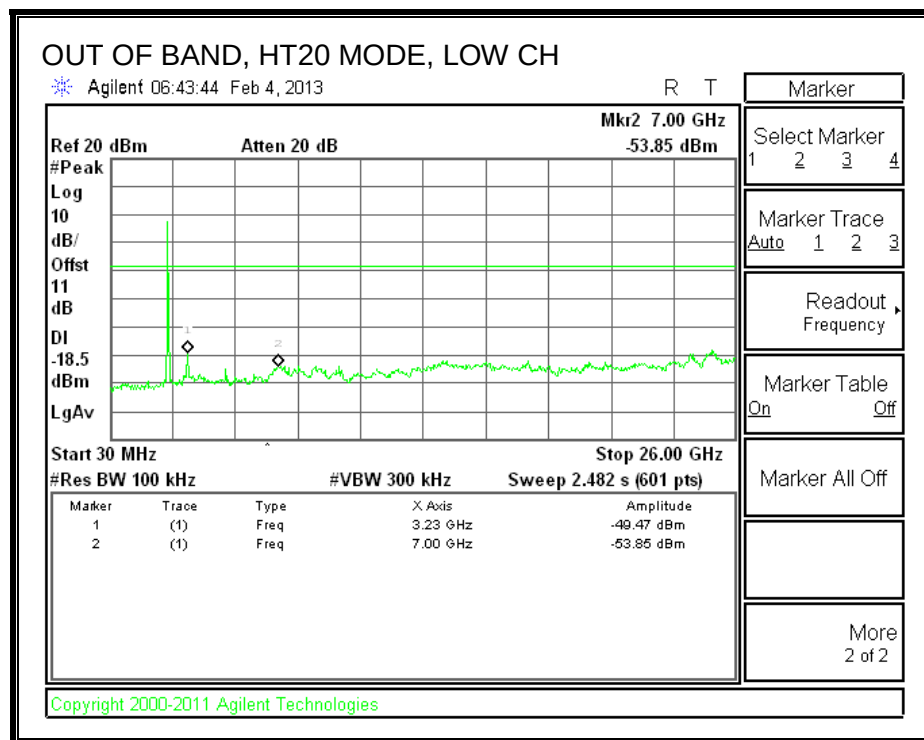
LOW CHANNEL BANDEDGE, HT20 MODE

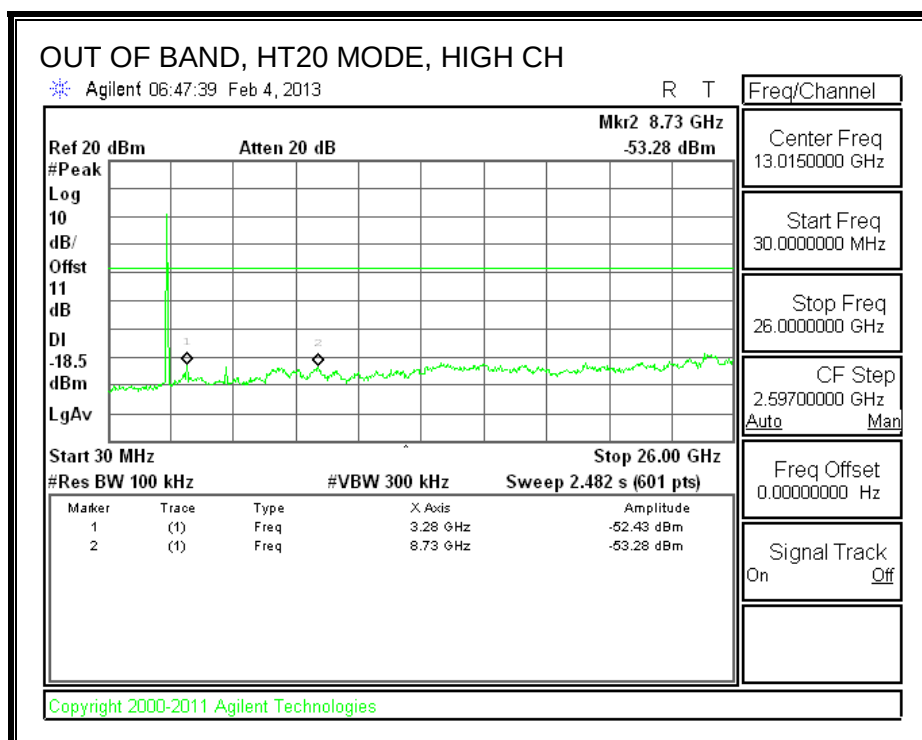
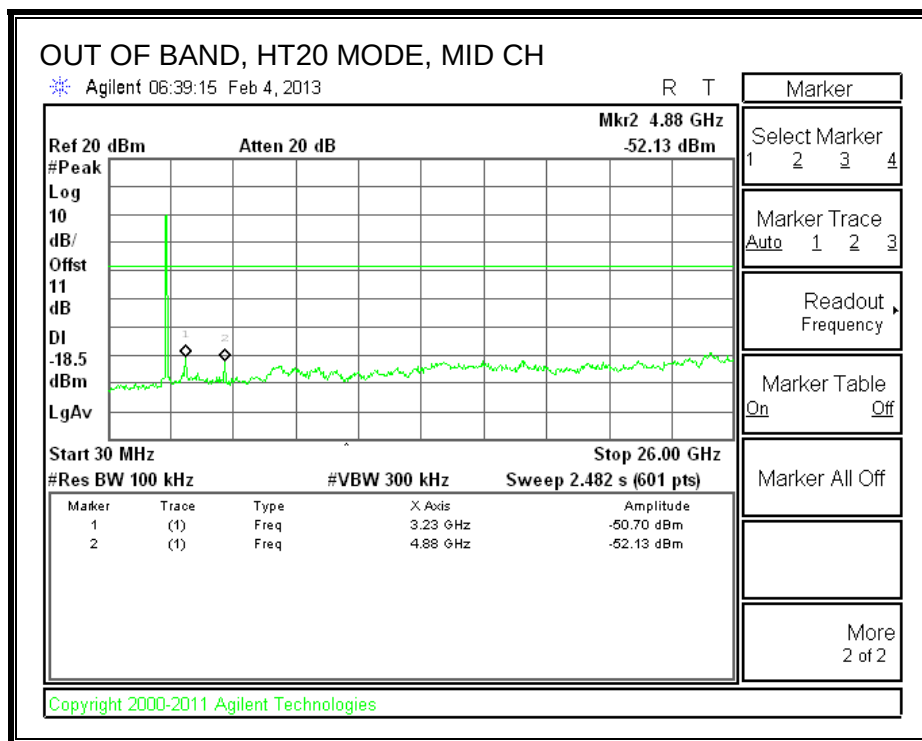


HIGH CHANNEL BANDEDGE, HT20 MODE



OUT-OF-BAND EMISSIONS, HT20 MODE





10. RADIATED TEST RESULTS

10.1. 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.

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; the video bandwidth is set to 1 MHz for peak measurements and as applicable for average measurements.

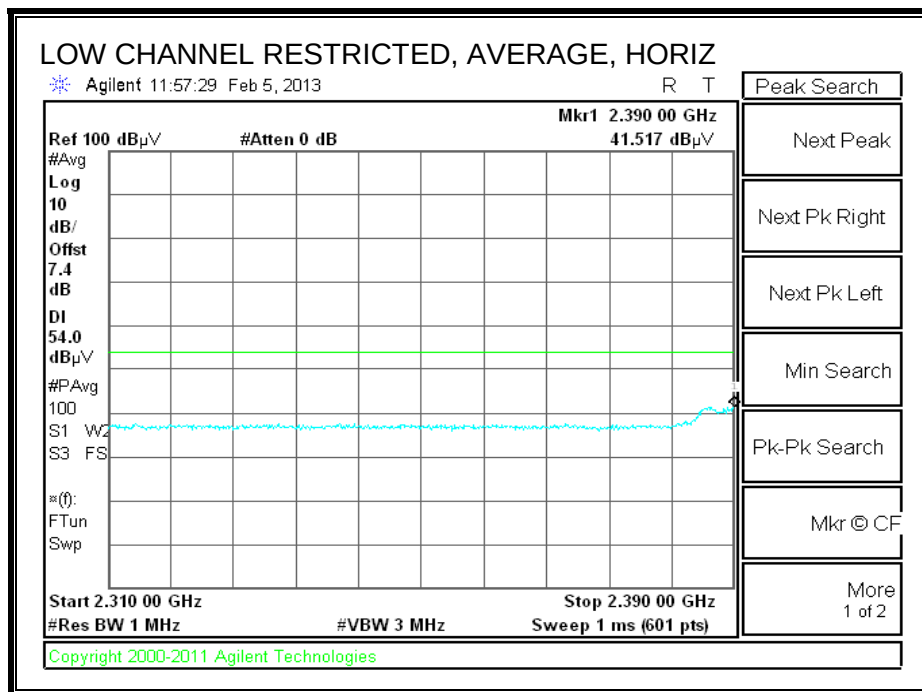
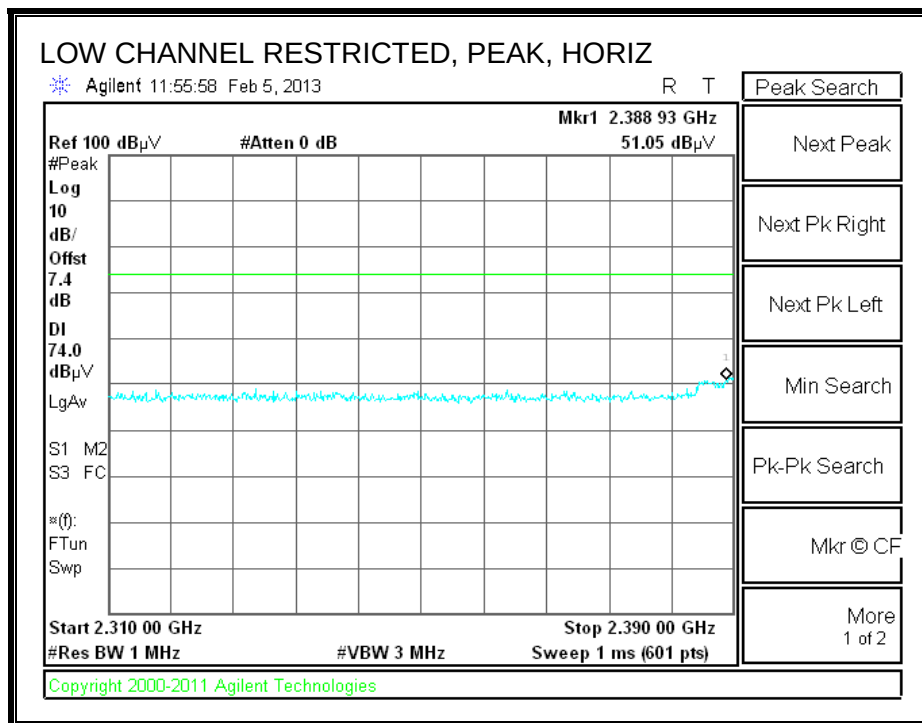
The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.

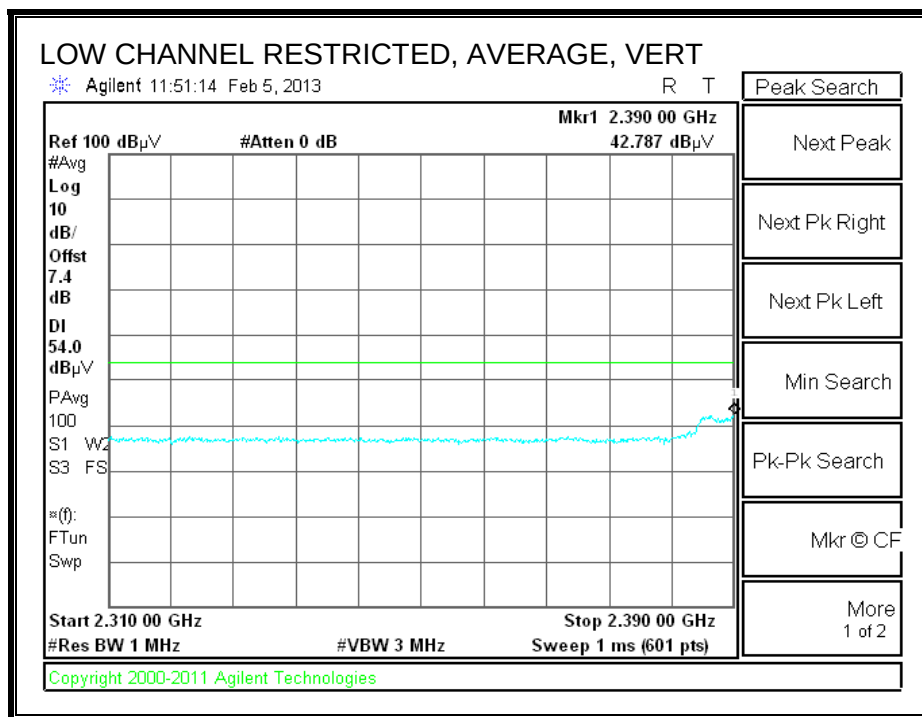
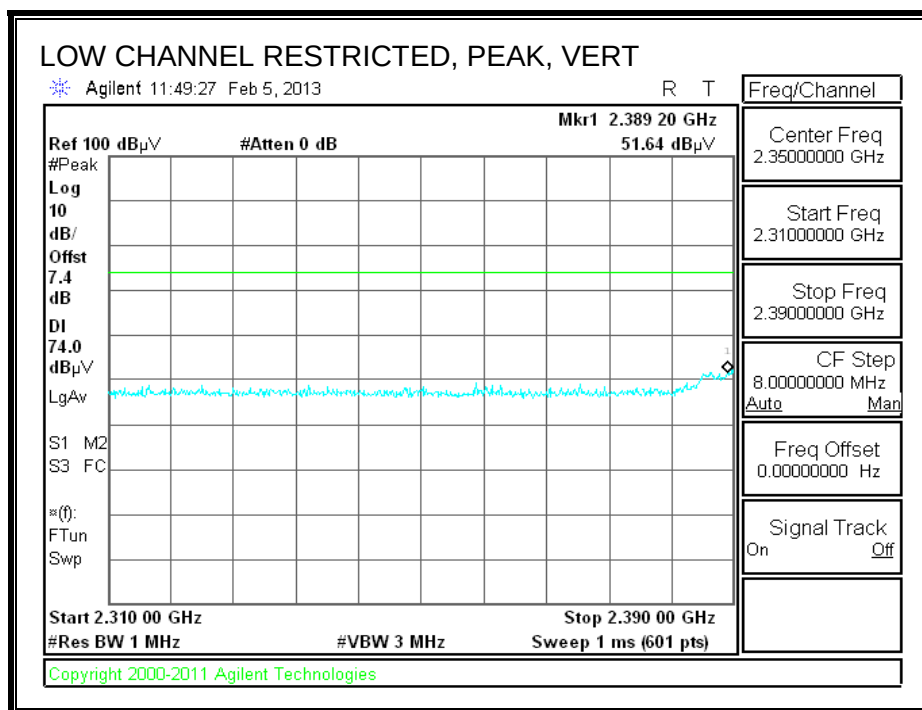
The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized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

10.2. TRANSMITTER ABOVE 1 GHz

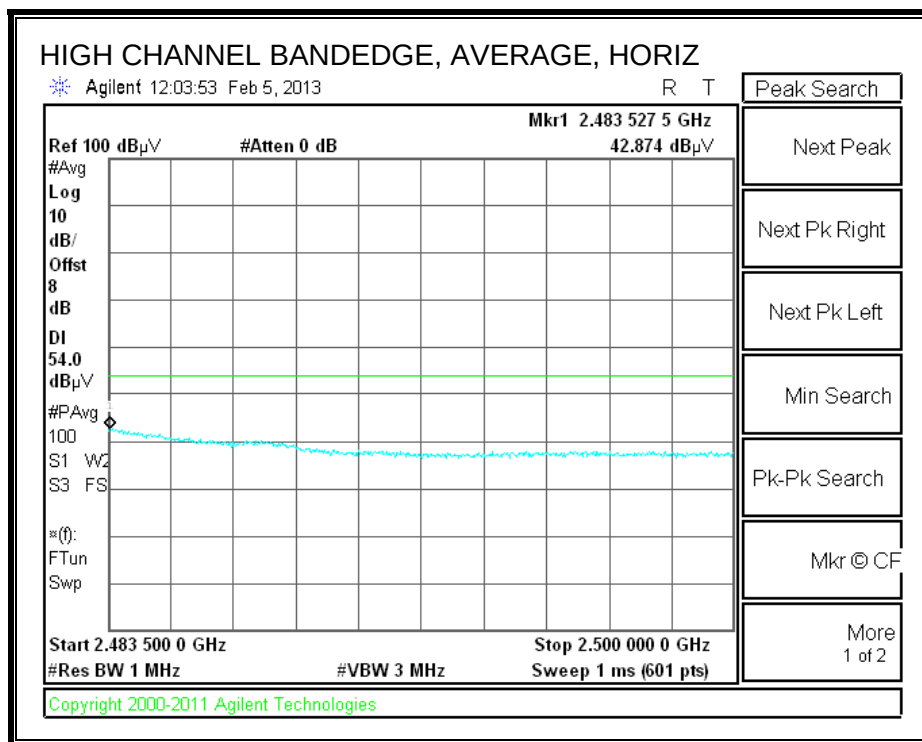
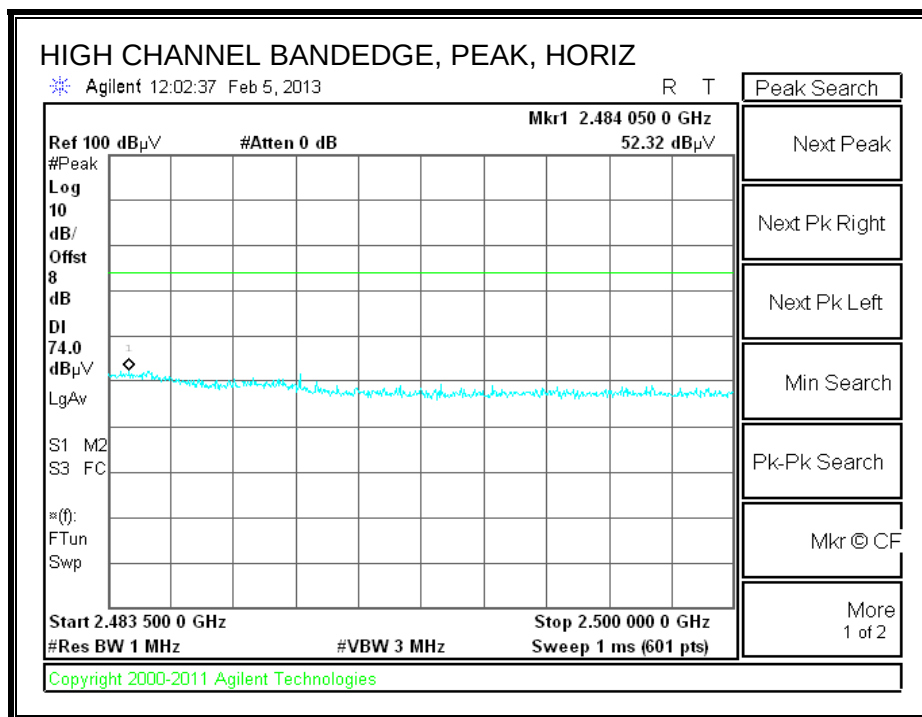
10.2.1. TX ABOVE 1 GHz 802.11b MODE IN THE 2.4 GHz BAND

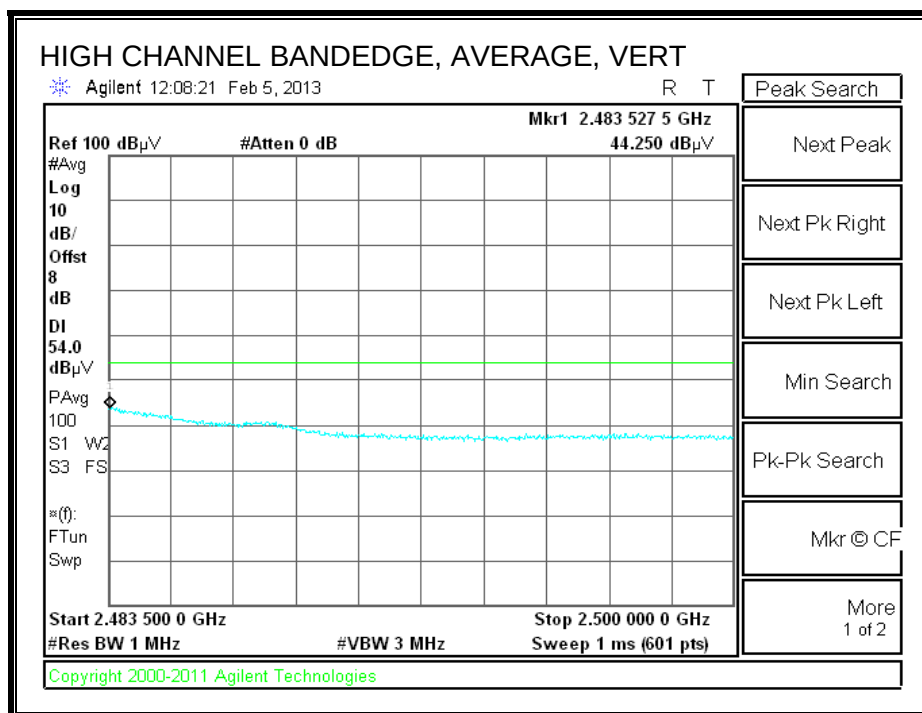
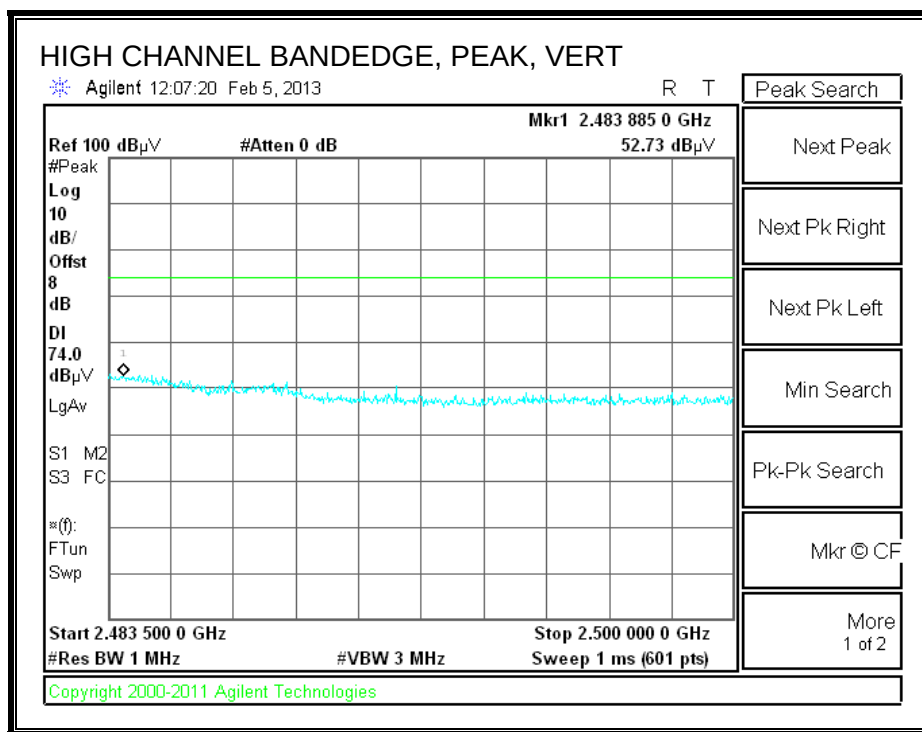
RESTRICTED BANEDGE (LOW CHANNEL)





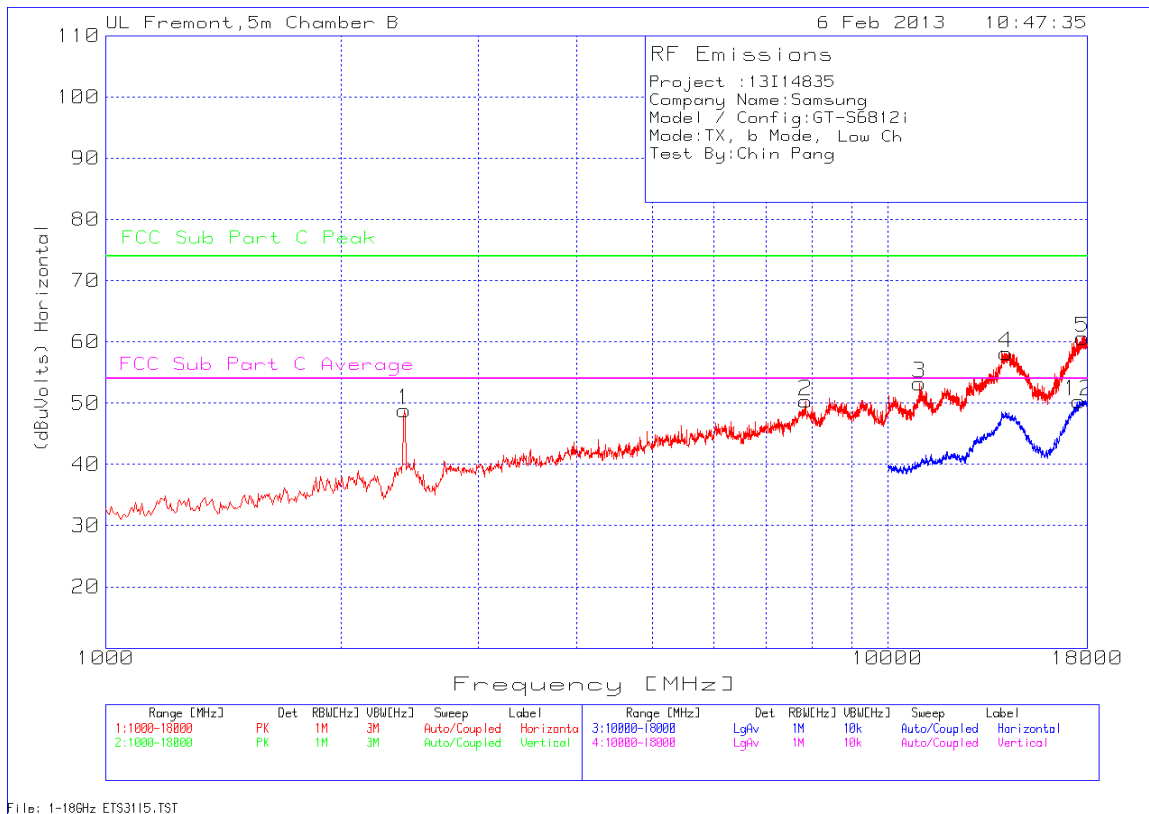
AUTHORIZED BANDEDGE (HIGH CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS

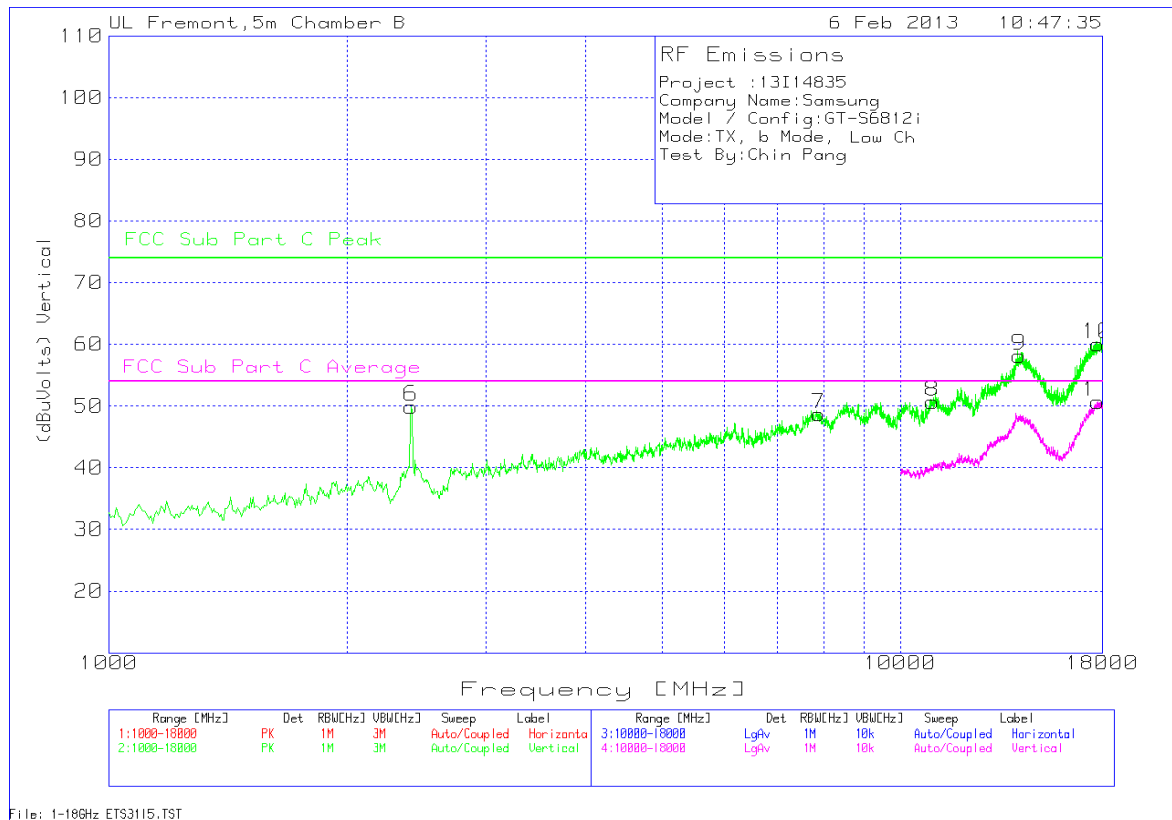
LOW CHANNEL, HARMONIC, HORIZONTAL



Horizontal 1000 - 18000MHz												
Marker No.	Frequency (MHz)	Meter Reading(dBuV)	Detector	EMCO 31115 1-18GHz (dB)	Cable (dB)	T145 Hp8449B 1-18GHz (dB)	Filter (dB)	2.5GHz 1-18GHz NF (dB)	(dBuVolts)	FCC Sub Part C Peak	Margin	Polarity
1	2410.06	50.56	PK	28.6	4.6	-36.9	1.5	0.5	48.86	74	-25.14	Horz
2	7852.099	38.86	PK	36.7	9.2	-35.9	1	0.5	50.36	74	-23.64	Horz
3	10995.003	38.08	PK	38.3	11	-35.6	1	0.5	53.28	74	-20.72	Horz
4	14160.56	34.8	PK	43.1	12.7	-33.9	1	0.5	58.2	74	-15.8	Horz
5	17779.147	33.25	PK	46	14.7	-34.8	1	0.5	60.65	74	-13.35	Horz

Horizontal 10000 - 18000MHz												
Marker No.	Frequency (MHz)	Meter Reading(dBuV)	Detector	EMCO 31115 1-18GHz (dB)	Cable (dB)	T145 Hp8449B 1-18GHz (dB)	Filter (dB)	2.5GHz 1-18GHz NF (dB)	(dBuVolts)	FCC Sub Part C Average	Margin	Polarity
12	17600.2	23.62	AV	45.2	14.6	-34.6	1	0.5	50.32	54	-3.68	Horz

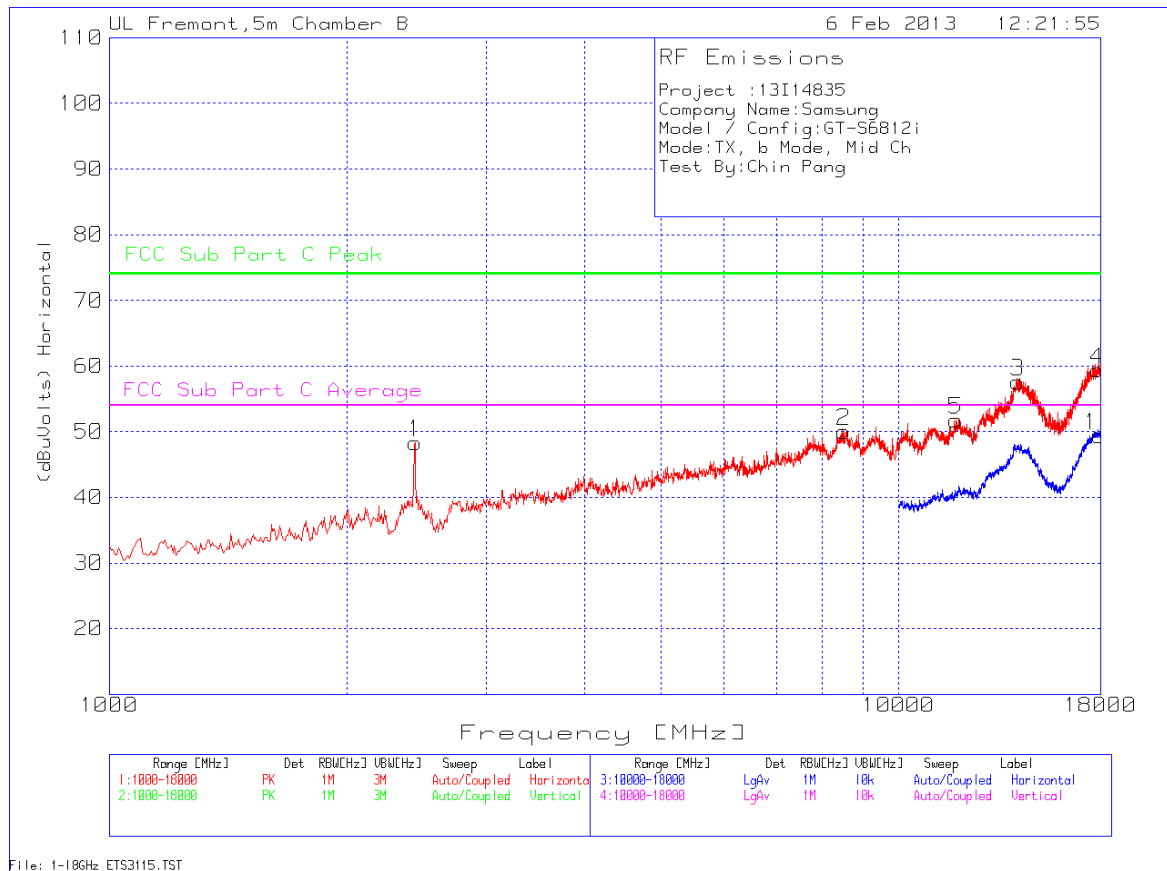
LOW CHANNEL, HARMONIC, VERTICAL



Vertical 1000 - 18000MHz											
Marker	Frequency	Meter		EMCO 31115	Cable	T145 Hp8449B 1-	Filter	2.5GHz 1-		FCC Sub	
No.	(MHz)	Reading(dBuV)	Detector	1-18GHz (dB)	(dB)	18GHz (dB)	(dB)	18GHz NF	(dBuVolts)	Part C	
6	2410.06	51.61	PK	28.6	4.6	-36.9	1.5	0.5	49.91	74	Margin
7	7891.739	37.16	PK	36.7	9.2	-35.9	1	0.5	48.66	74	Polarity
8	10978.015	35.45	PK	38.3	11	-35.6	1	0.5	50.65	74	
9	14126.582	34.85	PK	43	12.7	-33.9	1	0.5	58.15	74	
10	17756.496	32.76	PK	45.9	14.7	-34.8	1	0.5	60.06	74	

Vertical 10000 - 18000MHz											
Marker	Frequency	Meter		EMCO 31115	Cable	T145 Hp8449B 1-	Filter	2.5GHz 1-		FCC Sub	
No.	(MHz)	Reading(dBuV)	Detector	1-18GHz (dB)	(dB)	18GHz (dB)	(dB)	18GHz NF	(dBuVolts)	Part C	
11	17768.116	23.36	AV	45.9	14.7	-34.8	1	0.5	50.66	54	Margin
											Polarity

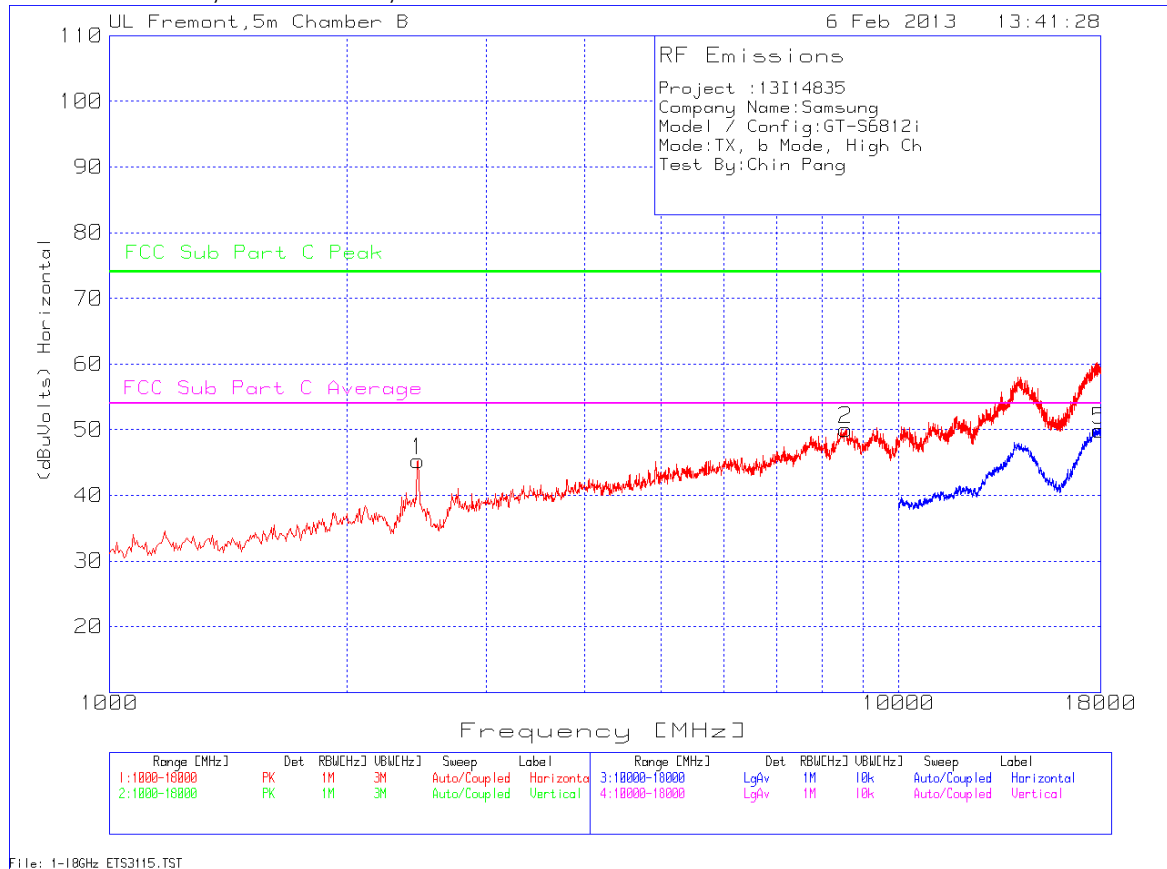
MID CHANNEL, HARMONIC, HORIZONTAL



Horizontal 1000 - 18000MHz												
Marker No.	Frequency (MHz)	Meter Reading (dBuV)	Detector	EMCO 31115 1-18GHz (dB)	Cable (dB)	T145 Hp8449B 1-18GHz (dB)	Filter (dB)	2.5GHz 1-18GHz NF (dB)	(dBuVolts)	FCC Sub Part C Peak	Margin	Polarity
1	2410.06	50.56	PK	28.6	4.6	-36.9	1.5	0.5	48.86	74	-25.14	Horz
2	7852.099	38.86	PK	36.7	9.2	-35.9	1	0.5	50.36	74	-23.64	Horz
3	10995.003	38.08	PK	38.3	11	-35.6	1	0.5	53.28	74	-20.72	Horz
4	14160.56	34.8	PK	43.1	12.7	-33.9	1	0.5	58.2	74	-15.8	Horz
5	17779.147	33.25	PK	46	14.7	-34.8	1	0.5	60.65	74	-13.35	Horz

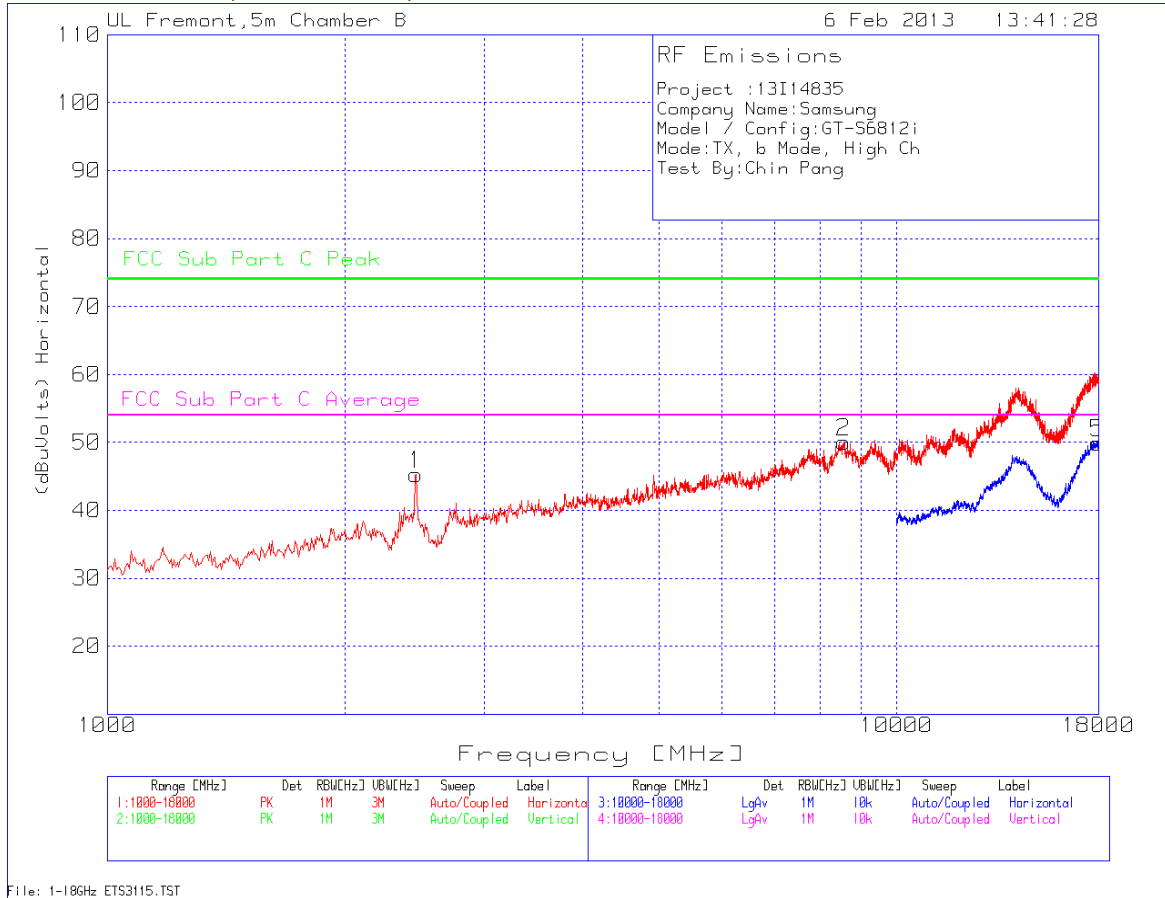
Horizontal 10000 - 18000MHz												
Marker No.	Test Frequency	Meter Reading (dBuV)	Detector	EMCO 31115 1-18GHz (dB)	Cable (dB)	T145 HP 8449B 1-18GHz (dB)	Filter (dB)	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Polarity
11	17976.012	22.24	AV	46.3	14.8	-35	1	49.34	74	-24.66	54	Horz

MID CHANNEL, HARMONIC, VERTICAL



Vertical 1000 - 18000MHz													
Marker No.	Test Frequency	Meter Reading (dBuV)	Detector	EMCO 31115 1-18GHz (dB)	Cable (dB)	T145 HP 8449B 1-18GHz (dB)	Filter (dB)	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Polarity
6	2438.374	51.46	PK	28.6	4.7	-36.9	1.5	49.36	74	-24.64	54	-4.64	Vert
7	8548.634	39.68	PK	37.2	9.6	-36	1	51.48	74	-22.52	54	-2.52	Vert
8	11787.808	37.59	PK	39.3	11.4	-35.7	1	53.59	74	-20.41	54	-0.41	Vert
9	14154.897	35.65	PK	43.1	12.7	-33.9	1	58.55	74	-15.45	54	4.55	Vert
10	17739.507	33.6	PK	45.9	14.7	-34.8	1	60.4	74	-13.6	54	6.4	Vert
Vertical 10000 - 18000MHz													
Marker No.	Test Frequency	Meter Reading (dBuV)	Detector	EMCO 31115 1-18GHz (dB)	Cable (dB)	T145 HP 8449B 1-18GHz (dB)	Filter (dB)	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Polarity
12	17904.048	22.99	AV	46.2	14.8	-34.9	1	50.09	74	-23.91	54	-3.91	Vert

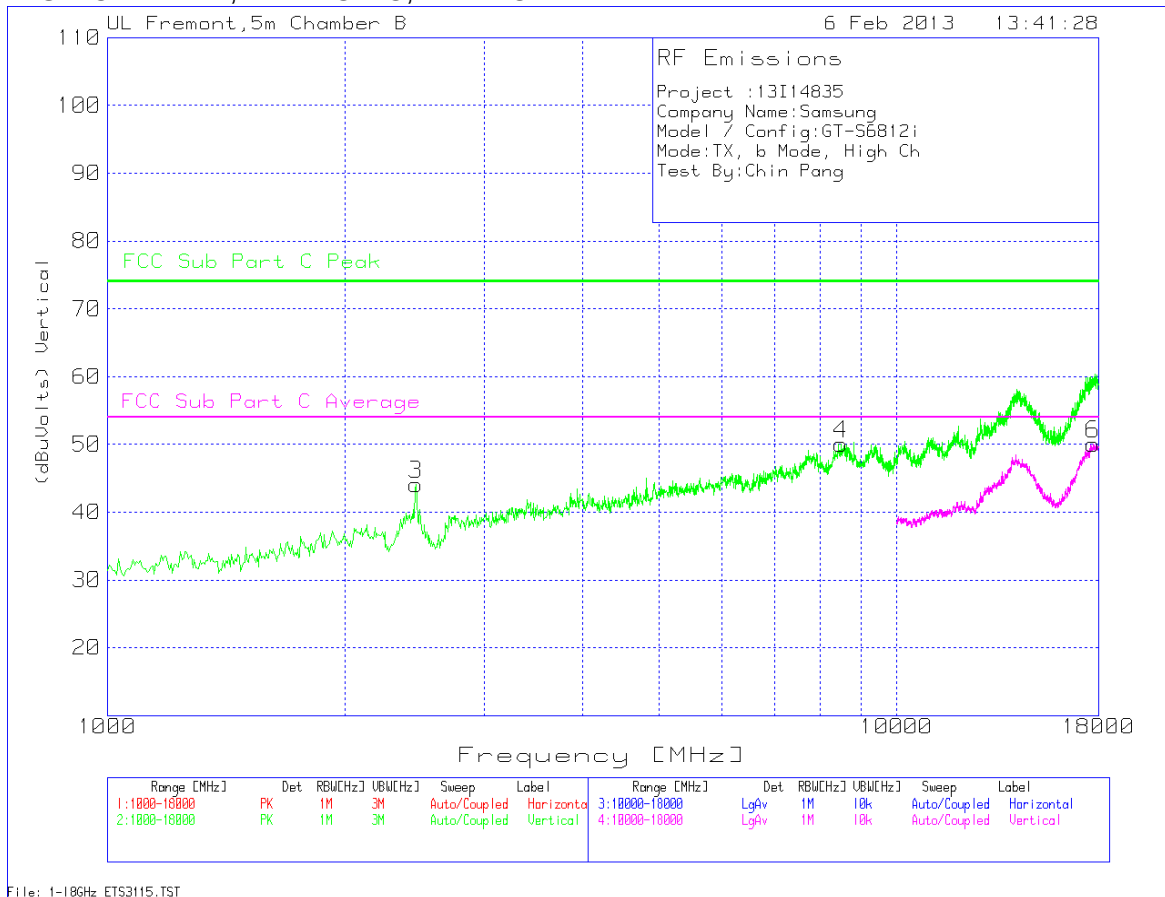
HIGH CHANNEL, HARMONIC, HORIZONTAL



Horizontal 1000 - 18000MHz													
Marker No.	Frequency (MHz)	Meter Reading (dBuV)	Detector	EMCO 31115 1-18GHz (dB)	Cable (dB)	T145HP 8449B 1-18GHz (dB)	Filter (dB)	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Polarity
1	2461.026	47.38	PK	28.6	4.7	-36.9	1.5	45.28	74	-28.72	54	-8.72	Horz
2	8571.286	38.29	PK	37.2	9.6	-36	1	50.09	74	-23.91	54	-3.91	Horz

Horizontal 10000 - 18000MHz													
Marker No.	Frequency (MHz)	Meter Reading (dBuV)	Detector	EMCO 31115 1-18GHz (dB)	Cable (dB)	T145HP 8449B 1-18GHz (dB)	Filter (dB)	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Polarity
5	17984.008	22.86	AV	46.3	14.8	-35	1	49.96	74	-24.04	54	-4.04	Horz

HIGH CHANNEL, HARMONIC, VERTICAL



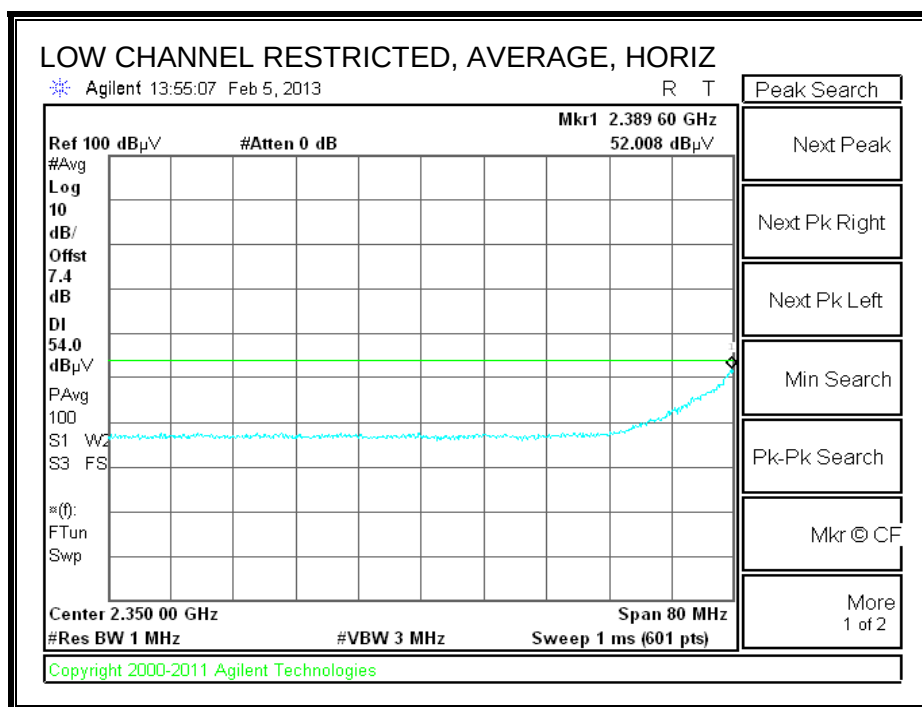
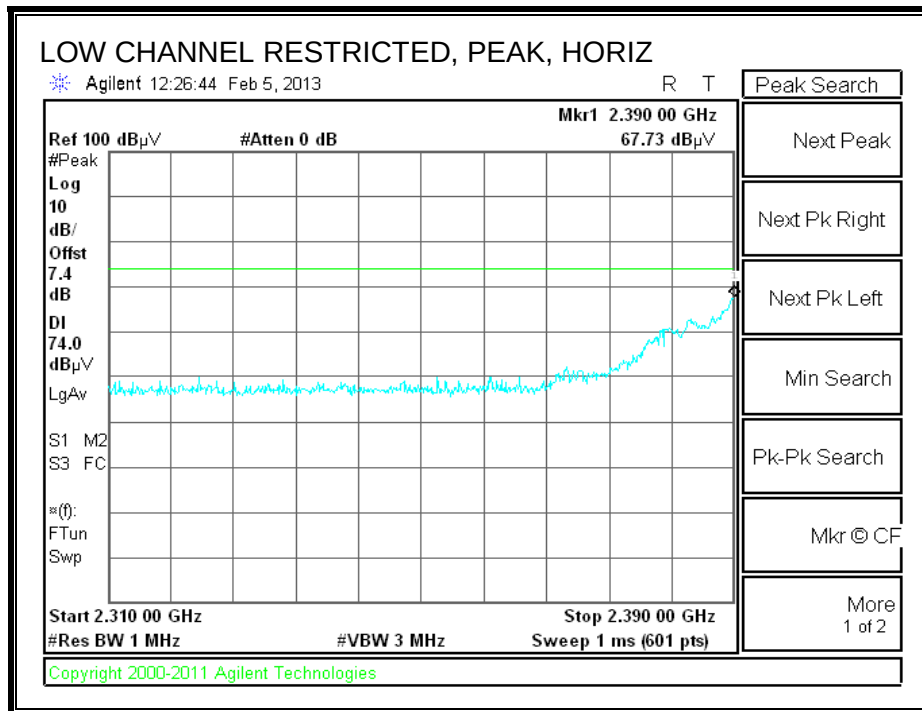
Vertical 1000 - 18000MHz													
Marker No.	Frequency (MHz)	Meter Reading (dBuV)	Detector	EMCO 31115 1-18GHz (dB)	Cable (dB)	T145HP 8449B 1-18GHz (dB)	Filter (dB)	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Polarity
3	2461.026	46.2	PK	28.6	4.7	-36.9	1.5	44.1	74	-29.9	54	-9.9	Vert
4	8503.331	38.21	PK	37.2	9.6	-36	1	50.01	74	-23.99	54	-3.99	Vert

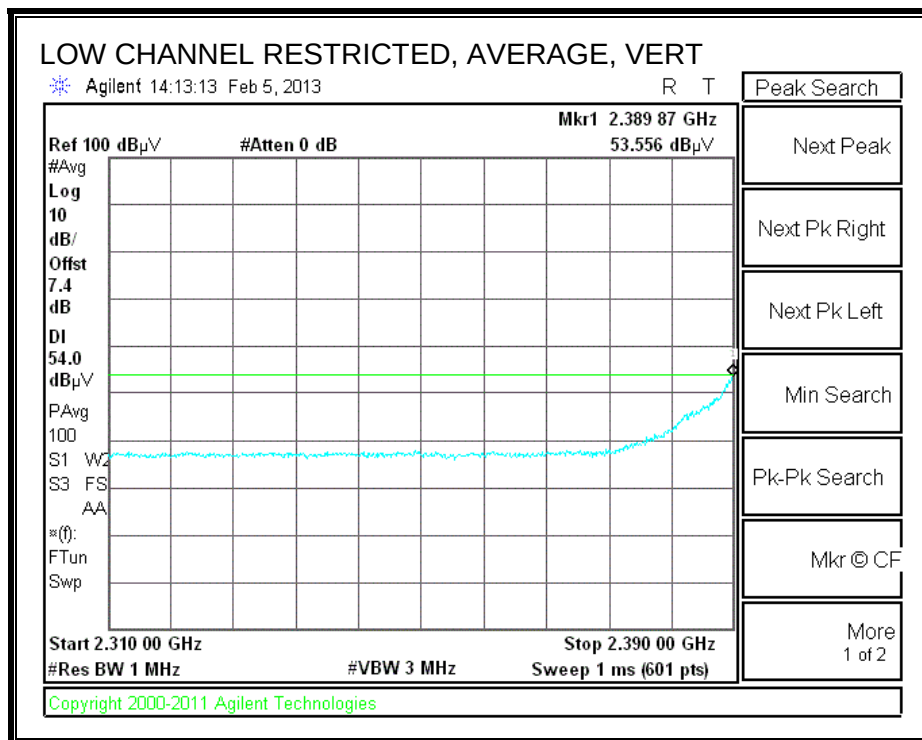
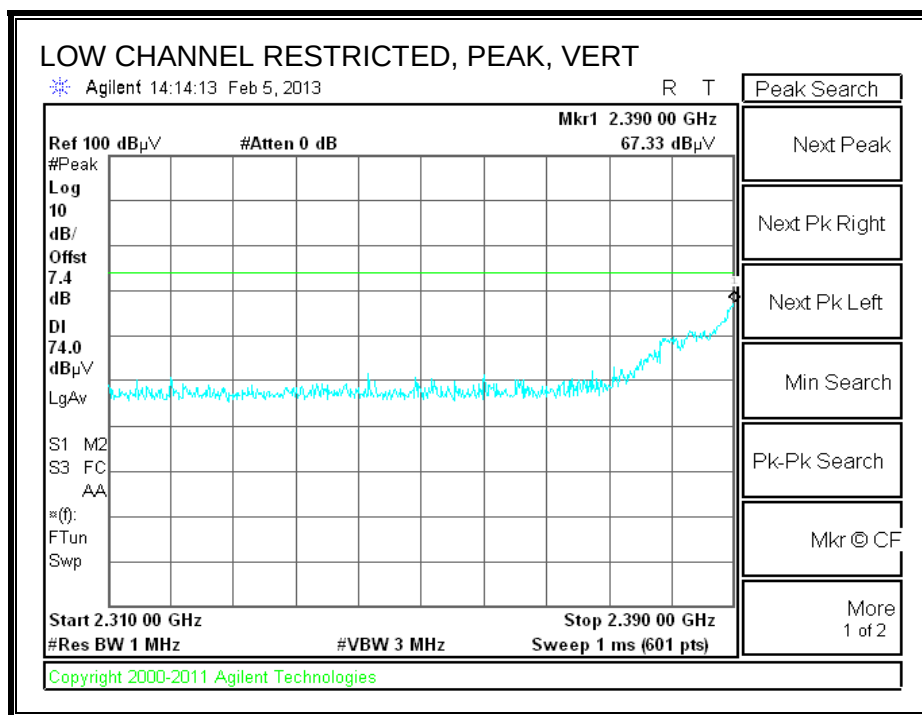
Vertical 10000 - 18000MHz													
Marker No.	Frequency (MHz)	Meter Reading (dBuV)	Detector	EMCO 31115 1-18GHz (dB)	Cable (dB)	T145HP 8449B 1-18GHz (dB)	Filter (dB)	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Polarity
6	17732.134	23.3	AV	45.8	14.7	-34.8	1	50	74	-24	54	-4	Vert

There are no emissions from 18 GHz to 26 GHz.

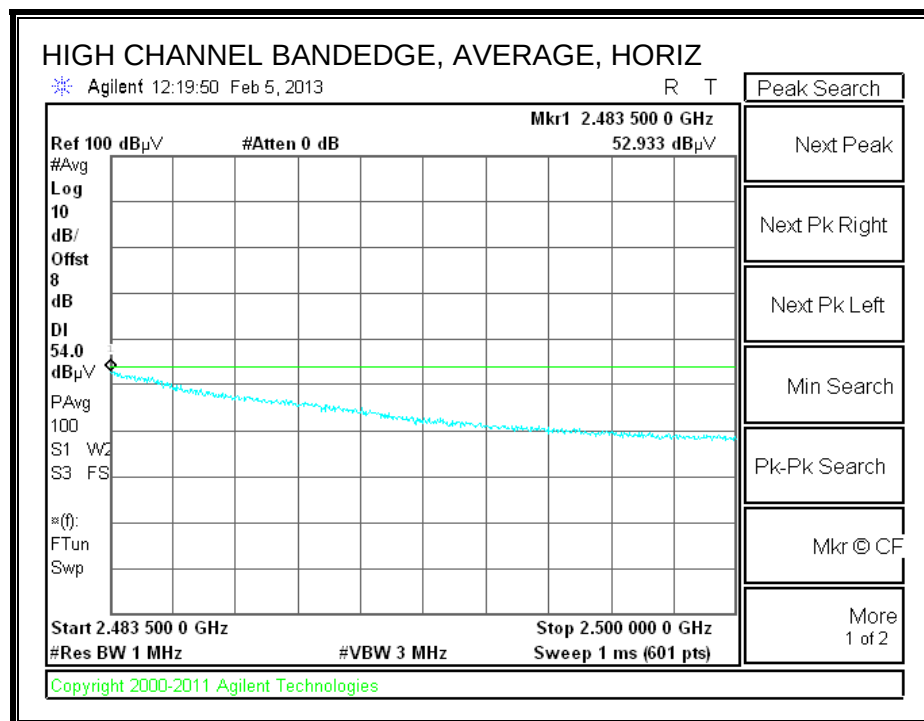
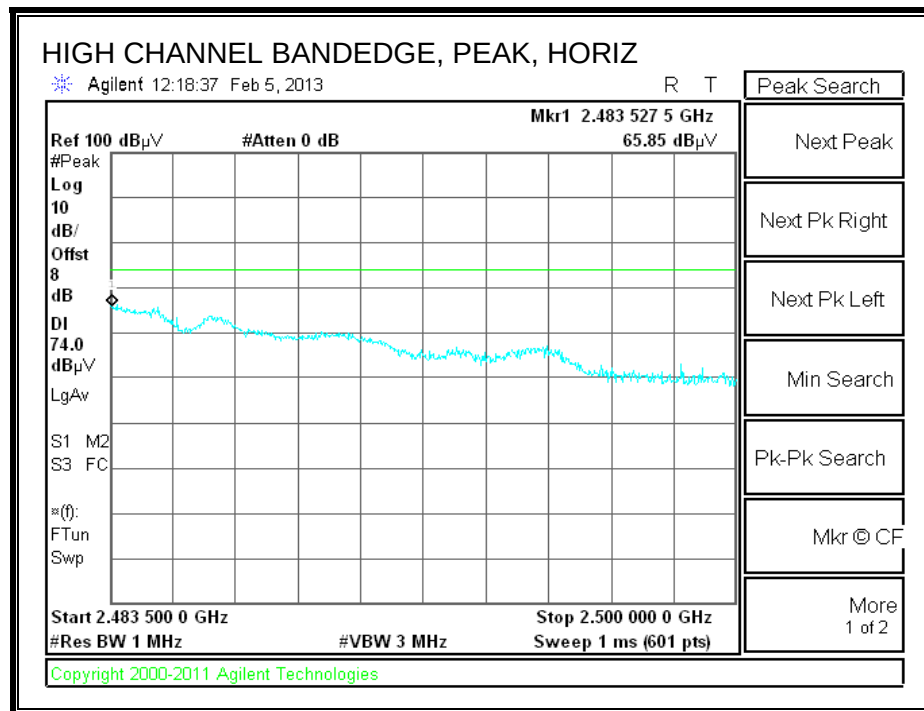
10.2.2. TX ABOVE 1 GHz 802.11g MODE IN THE 2.4 GHz BAND

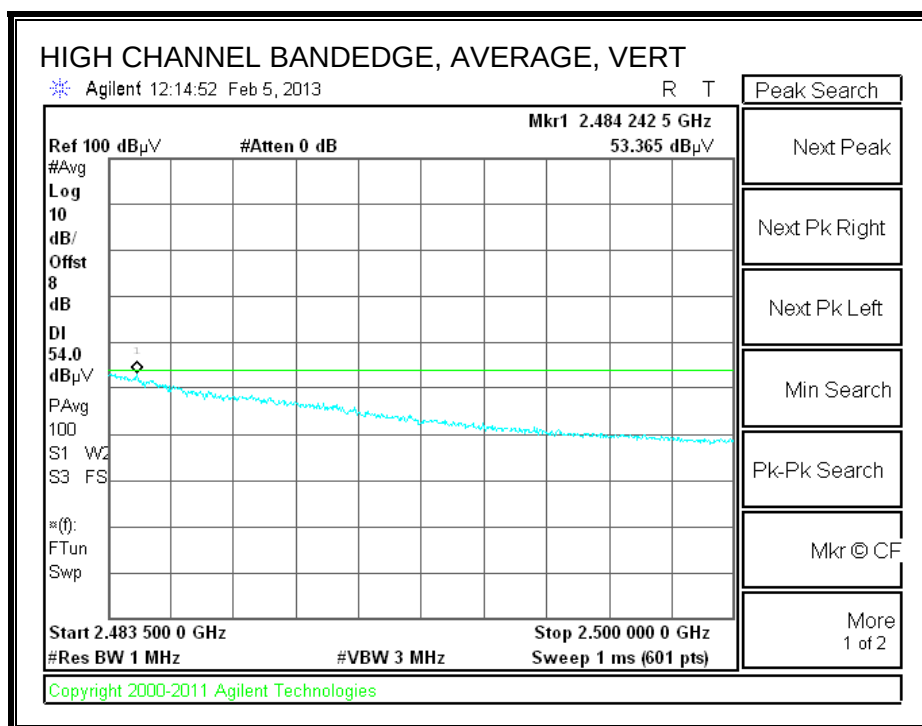
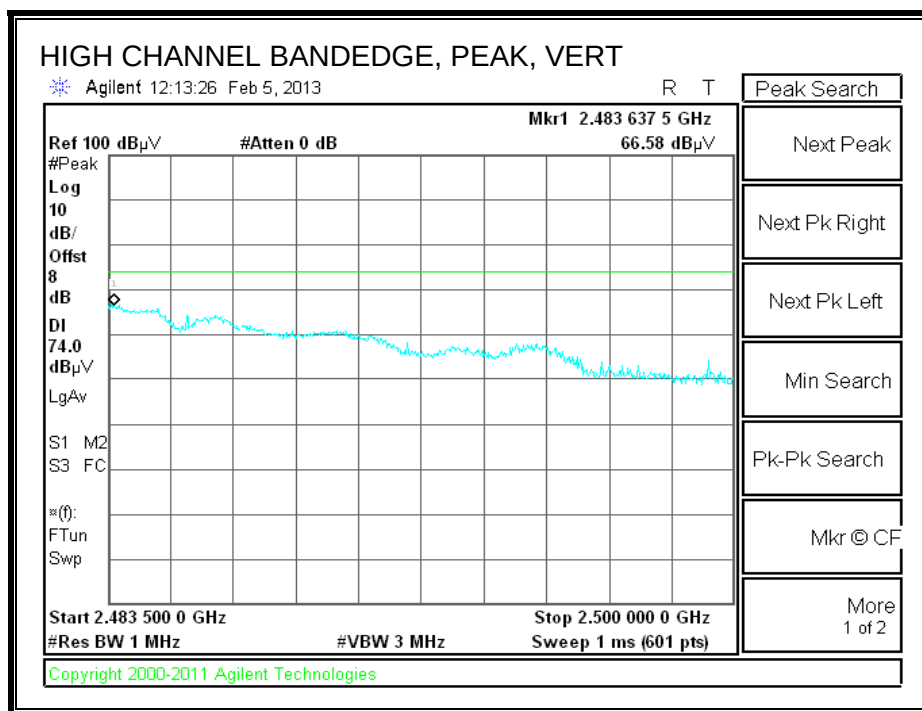
RESTRICTED BANDEDGE (LOW CHANNEL)





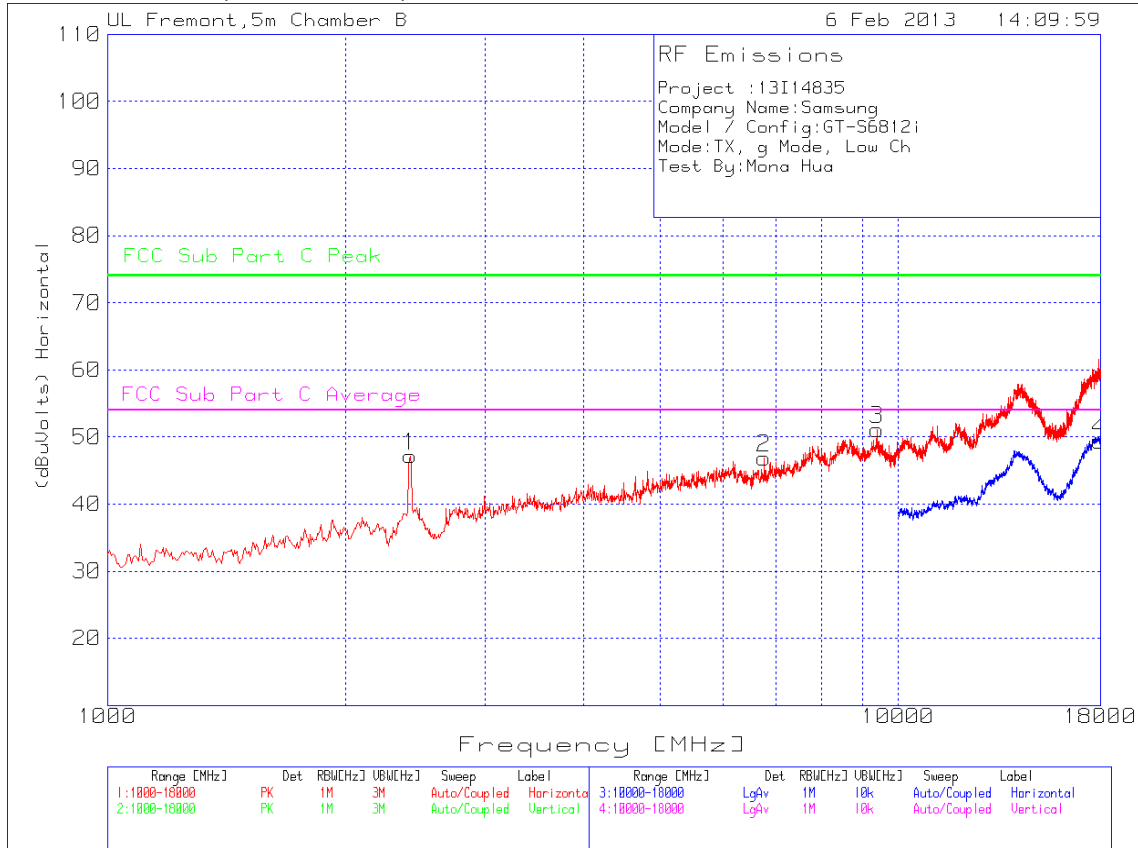
AUTHORIZED BANDEDGE (HIGH CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS

LOW CHANNEL, HARMONIC, HORIZONTAL

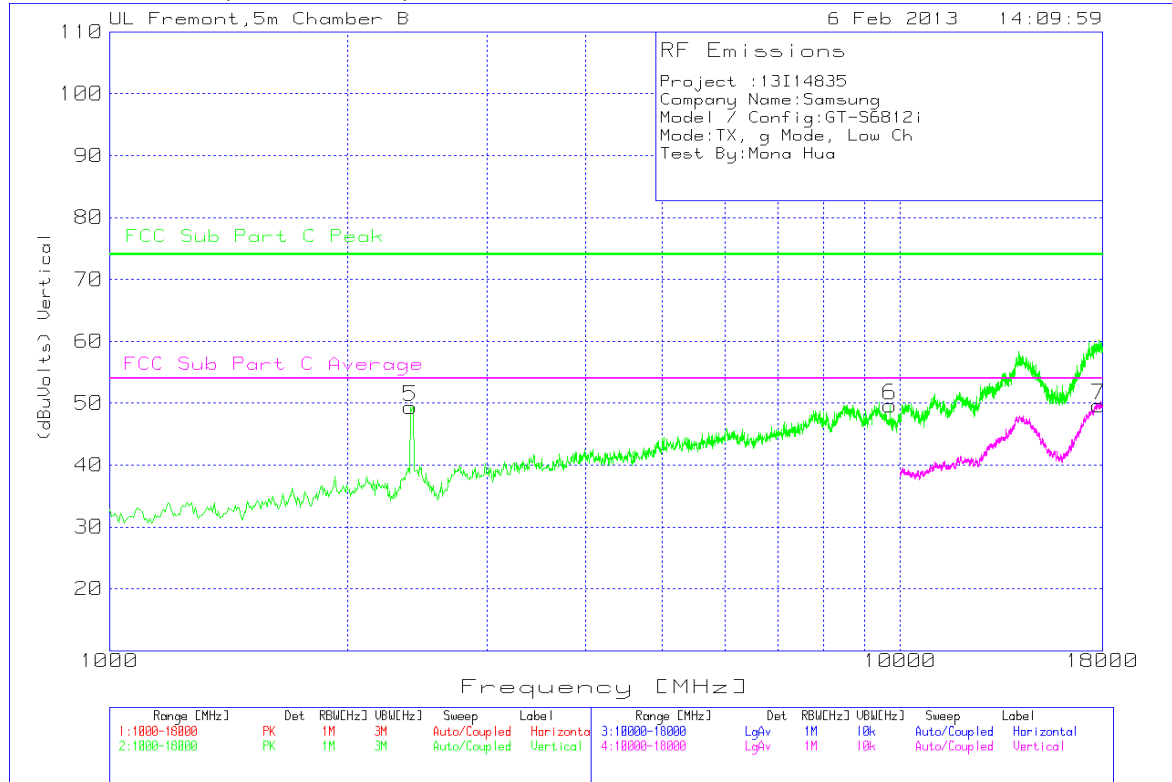


File: 1-18GHz ETS3115.TST

Horizontal 1000 - 18000MHz													
Marker No.	Frequency (MHz)	Reading (dBuV)	Detector	EMCO 31115 1-18GHz (dB)	Cable (dB)	T145 HP 8449B 1-18GHz (dB)	Filter (dB)	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Polarity
1	2415.723	49.4	PK	28.6	4.6	-36.9	1.5	47.2	74	-26.8	54	-6.8	Horz
2	6764.823	37.72	PK	35.2	8.5	-35.6	1	46.82	74	-27.18	54	-7.18	Horz
3	9409.394	38.67	PK	37.5	10.1	-36.2	1	51.07	74	-22.93	54	-2.93	Horz

Horizontal 10000 - 18000MHz													
Marker	Frequency	Reading		EMCO 31115	Cable	T145 HP 8449B	Filter		FCC Sub		FCC Sub Part		
No.	(MHz)	(dBuV)	Detector	1-18GHz (dB)	(dB)	1-18GHz (dB)	(dB)	(dBuVolts)	Part C Peak	Margin	C Average	Margin	Polarity
4	17972.014	22.33	AV	46.3	14.8	-35	1	49.43	74	-24.57	54	-4.57	Horz

LOW CHANNEL, HARMONIC, VERTICAL

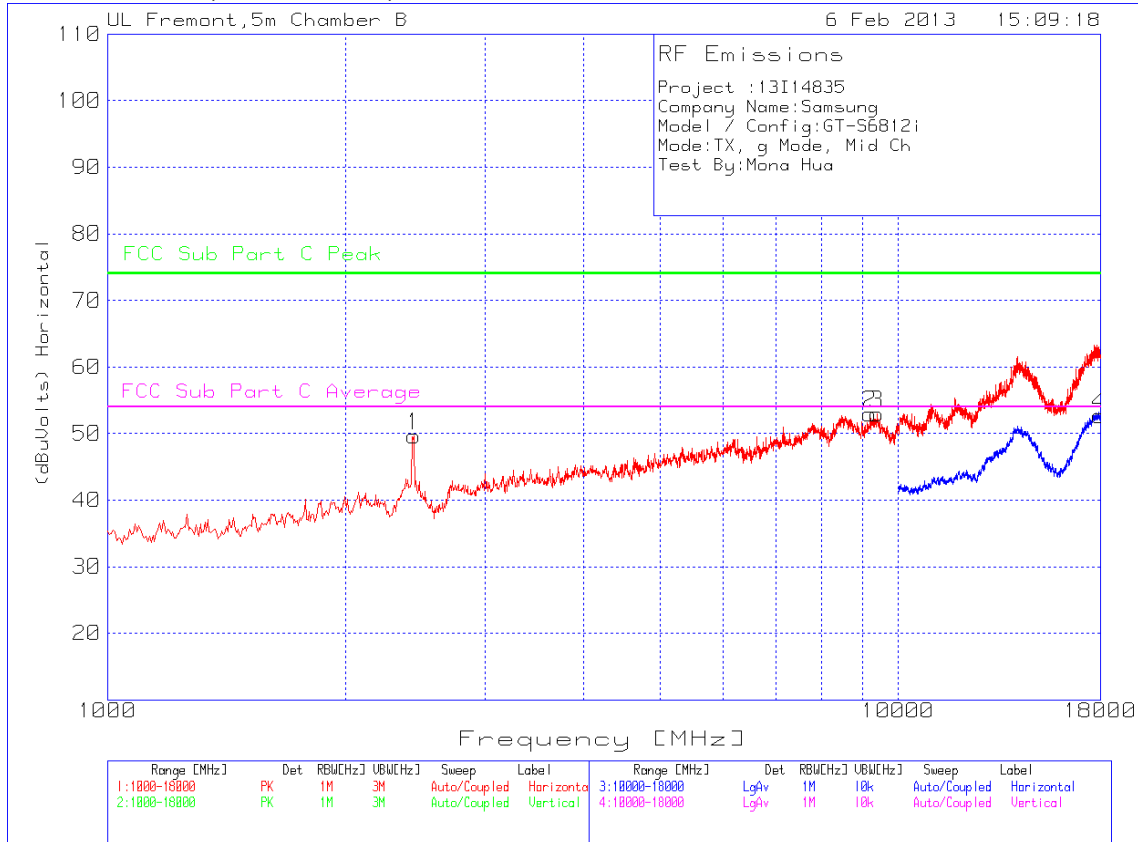


File: 1-10GHz ETS3115.TST

Vertical 1000 - 18000MHz												
Marker No.	Frequency (MHz)	Reading (dBuV)	Detector	EMCO 31115 1-18GHz (dB)	Cable (dB)	T145 HP 8449B 1-18GHz (dB)	Filter (dB)	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Polarity
5	2404.397	51.63	PK	28.6	4.6	-36.9	1.5	49.43	74	-24.57	54	Vert
6	9709.527	37.23	PK	37.4	10.3	-36.3	1	49.63	74	-24.37	54	Vert

Vertical 10000 - 18000MHz												
Marker No.	Frequency (MHz)	Reading (dBuV)	Detector	EMCO 31115 1-18GHz (dB)	Cable (dB)	T145 HP 8449B 1-18GHz (dB)	Filter (dB)	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Polarity
7	17820.09	22.67	AV	46.1	14.7	-34.8	1	49.67	74	-24.33	54	Vert

MID CHANNEL, HARMONIC, HORIZONTAL

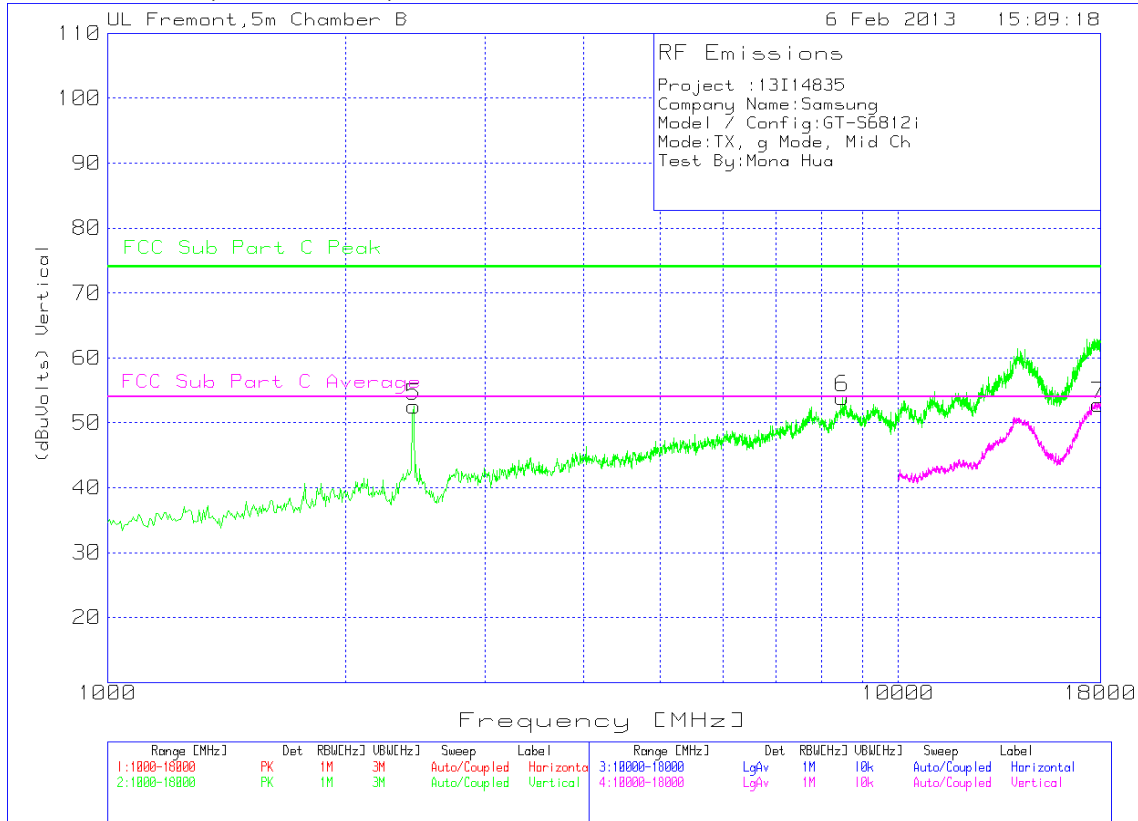


File: low.DAT

Horizontal 1000 - 18000MHz													
	Frequency [MHz]	Reading [dBuV]	Detector	EMCO 31115 1- 18GHz [dB]	Cable [dB]	T145 HP 8449B 1- 18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Polarity
1	2438.374	51.74	PK	28.6	4.7	-36.9	1.5	49.64	74	-24.36	54	-4.36	Horz
2	9205.53	40.78	PK	37.3	10	-36.1	1	52.98	74	-21.02	54	-1.02	Horz
3	9403.731	40.55	PK	37.5	10.1	-36.2	1	52.95	74	-21.05	54	-1.05	Horz

Horizontal 10000 - 18000MHz													
	Frequency [MHz]	Reading [dBuV]	Detector	EMCO 31115 1- 18GHz [dB]	Cable [dB]	T145 HP 8449B 1- 18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Polarity
4	17972.014	25.6	AV	46.3	14.8	-35	1	52.7	74	-21.3	54	-1.3	Horz

MID CHANNEL, HARMONIC, VERTICAL

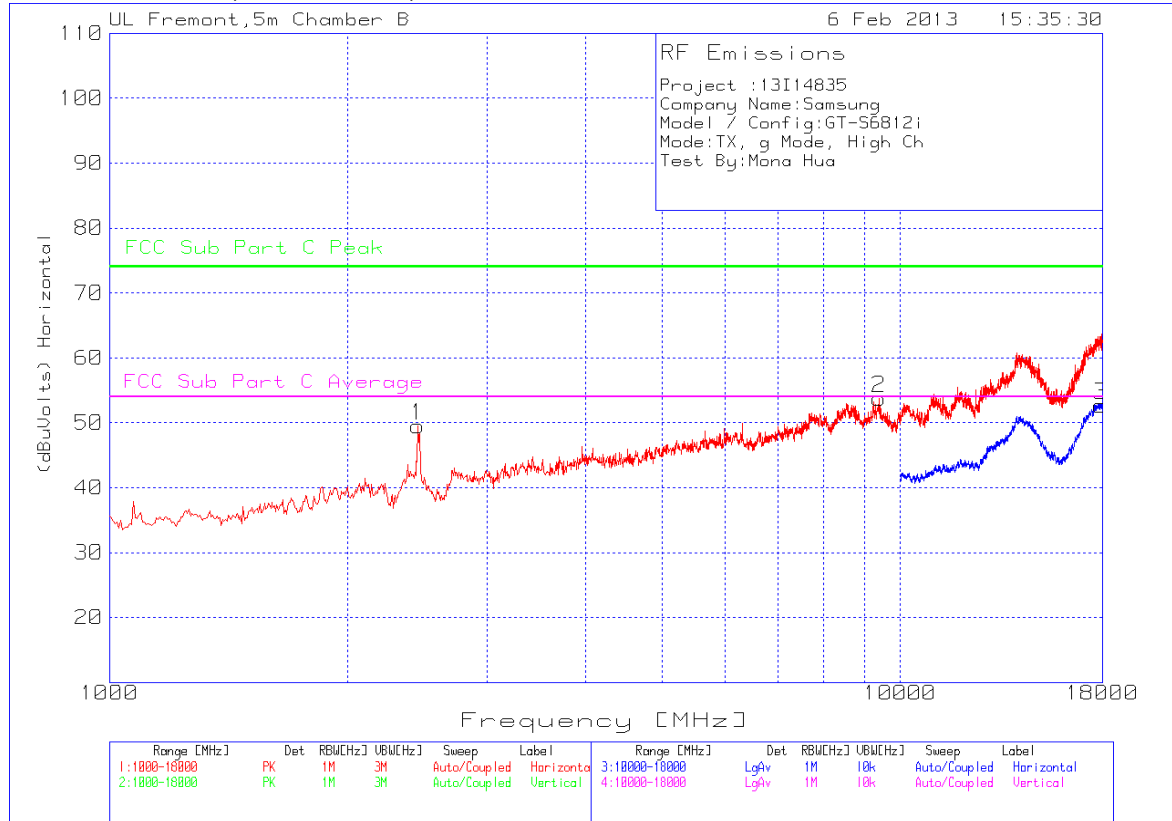


File: low.DAT

Vertical 1000 - 18000MHz													
	Frequency [MHz]	Reading [dBuV]	Detector	EMCO 31115 1- 18GHz [dB]	Cable [dB]	T145 HP 8449B 1- 18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Polarity
5	2438.374	54.63	PK	28.6	4.7	-36.9	1.5	52.53	74	-21.47	54	-1.47	Vert
6	8508.994	42.04	PK	37.2	9.6	-36	1	53.84	74	-20.16	54	-0.16	Vert

Vertical 10000 - 18000MHz													
	Frequency (MHz)	Reading (dBuV)	Detector	EMCO 31115 1- 18GHz [dB]	Cable [dB]	T145 HP 8449B 1- 18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Polarity
7	17932.034	25.76	AV	46.2	14.8	-34.9	1	52.86	74	-21.14	54	-1.14	Vert

HIGH CHANNEL, HARMONIC, HORIZONTAL



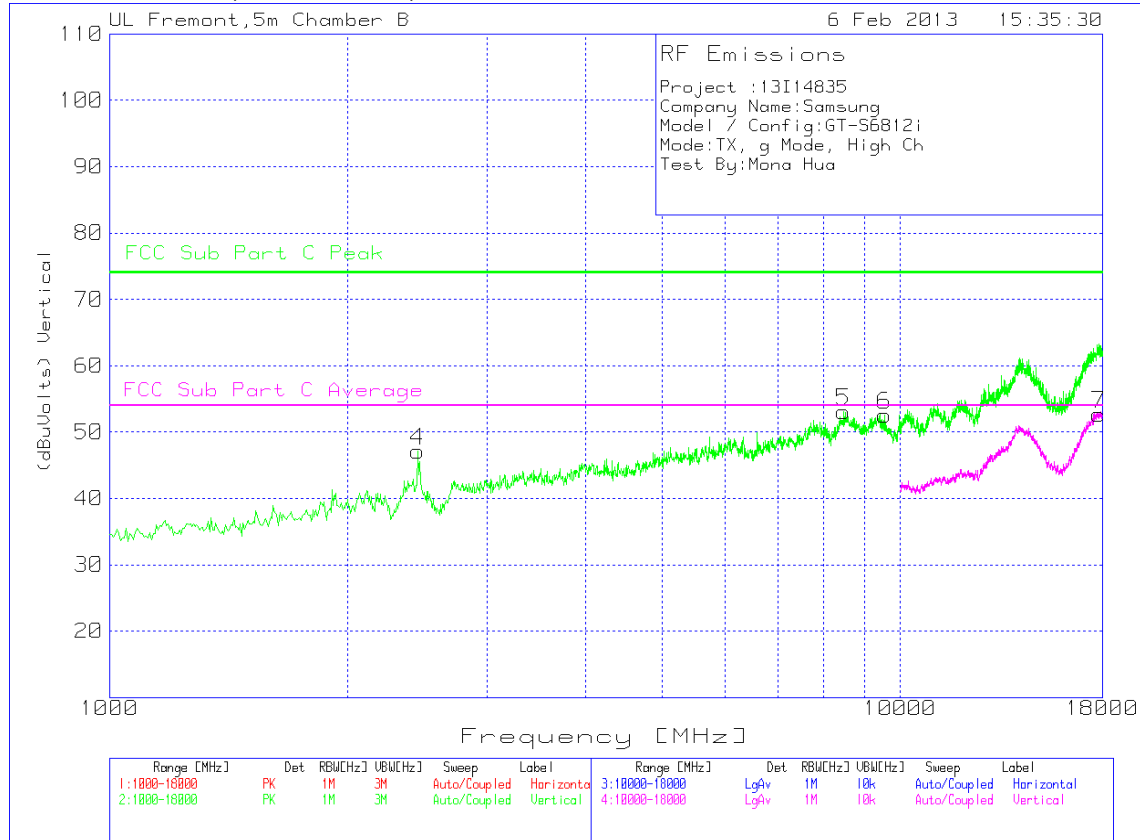
File: mid.DAT

Horizontal 1000 - 18000MHz																
	Frequency (MHz)	Meter Reading (dBuV)	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	T145 HP 8449B 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Polarity			
1	2455.363	51.66	PK	28.6	4.7	-36.9	1.5	49.56	74	-24.44	54	-4.44	Horz			
2	9409.394	41.38	PK	37.5	10.1	-36.2	1	53.78	74	-20.22	54	-0.22	Horz			

Horizontal 10000 - 18000MHz													
		Meter		EMCO 31115					FCC Sub				
	Test	Reading		1-18GHz		T145 HP 8449B			Part C		FCC Sub Part		
	Frequency	(dBuV)	Detector	[dB]	Cable [dB]	1-18GHz [dB]	Filter [dB]	(dBuVolts)	Peak	Margin	C Average	Margin	Polarity
3	17920.04	25.64	AV	46.2	14.8	-34.9	1	52.74	74	-21.26	54	-1.26	Horz

AVG Horizontal 1000 - 18000MHz												
Frequency (MHz)	Readin (dBuV)	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	T145 HP 8449B 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Polarity
9498.24	35.05	MAv1	37.5	10.2	-36.2	1	47.55	74	-26.45	54	-6.45	Horz

HIGH CHANNEL, HARMONIC, VERTICAL



File: mid.DAT

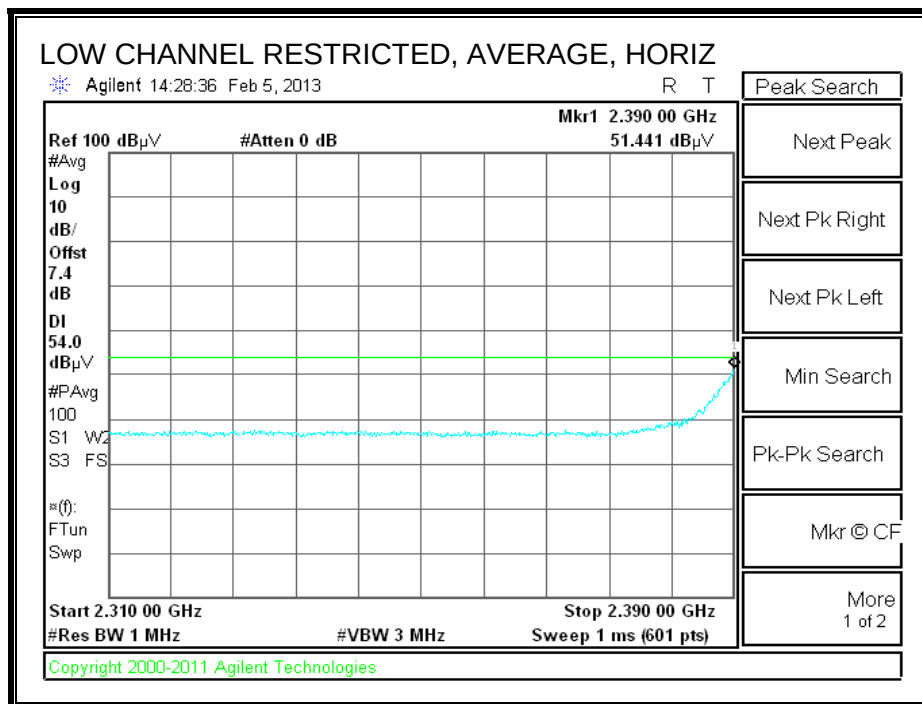
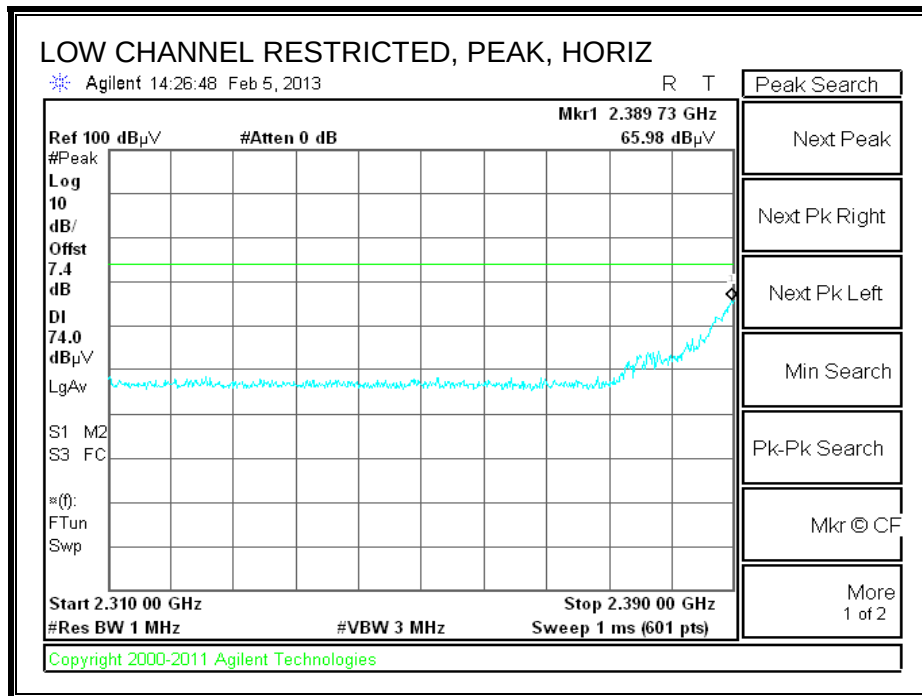
Vertical 1000 - 18000MHz											
Frequency (MHz)	Meter Reading (dBuV)	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	T145 HP 8449B 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin
4	2455.363	49.29	PK	28.6	4.7	-36.9	1.5	47.19	74	-26.81	-6.81
5	8480.68	41.24	PK	37.2	9.6	-36	1	53.04	74	-20.96	-0.96
6	9545.303	40.21	PK	37.4	10.2	-36.2	1	52.61	74	-21.39	-1.39

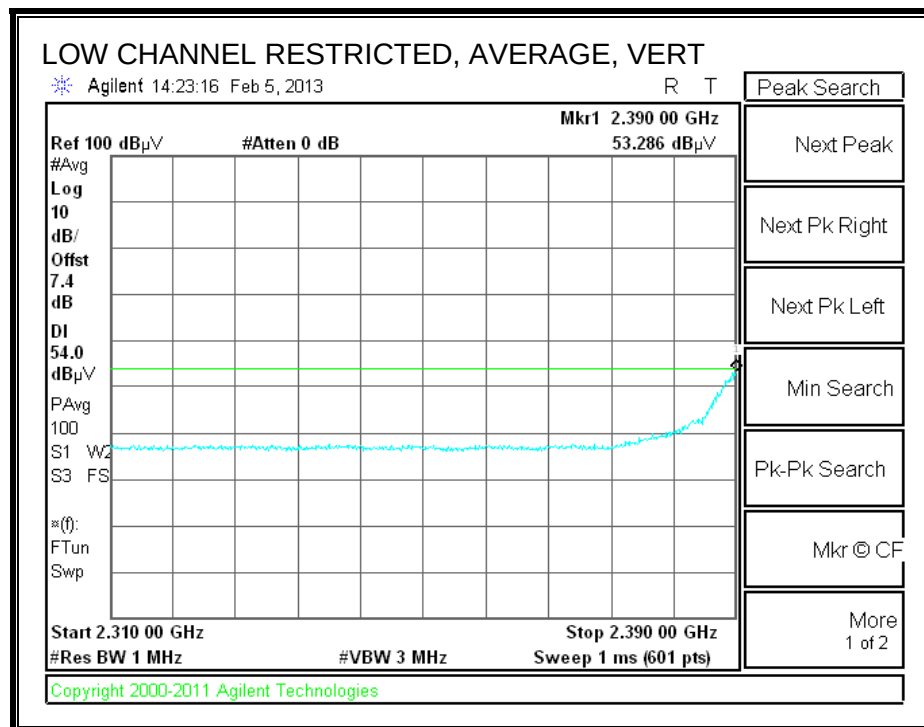
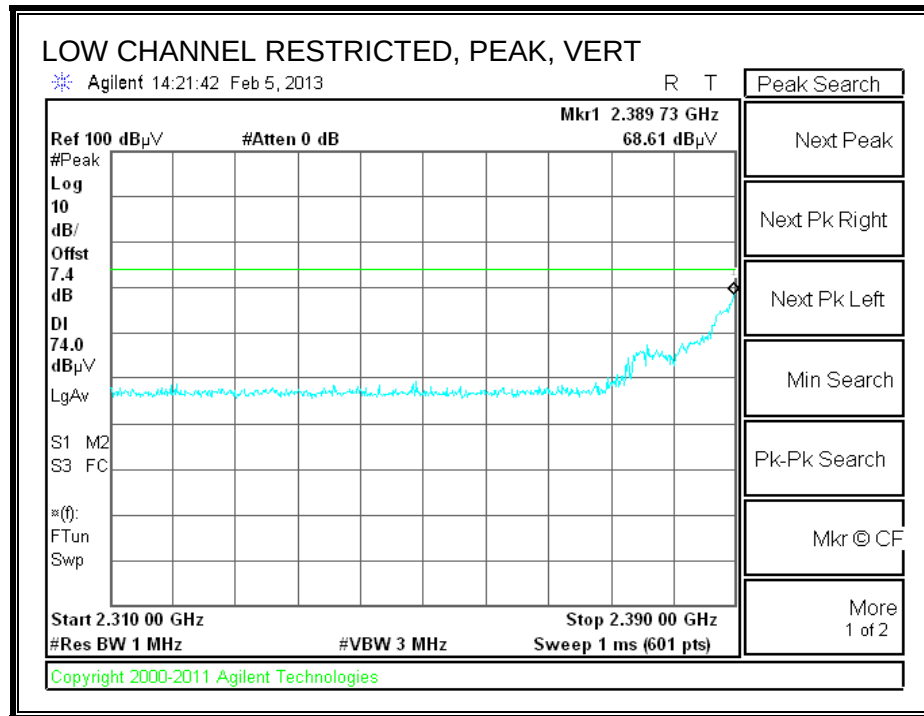
Vertical 10000 - 18000MHz											
Frequency (MHz)	Meter Reading (dBuV)	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	T145 HP 8449B 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin
7	17820.09	25.67	AV	46.1	14.7	-34.8	1	52.67	74	-21.33	-1.33

There are no emissions from 18 GHz to 26 GHz.

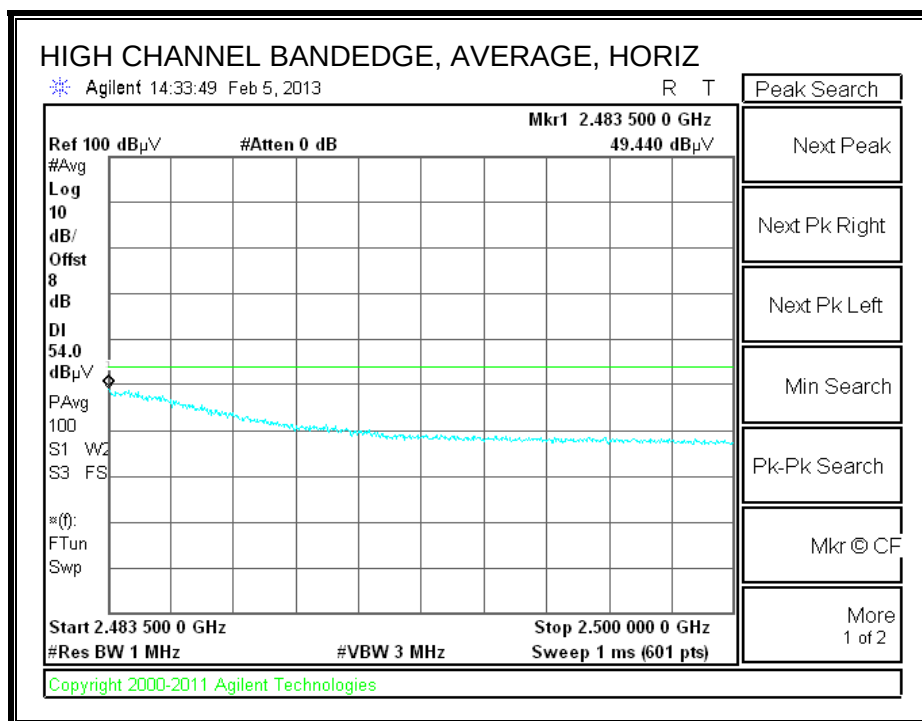
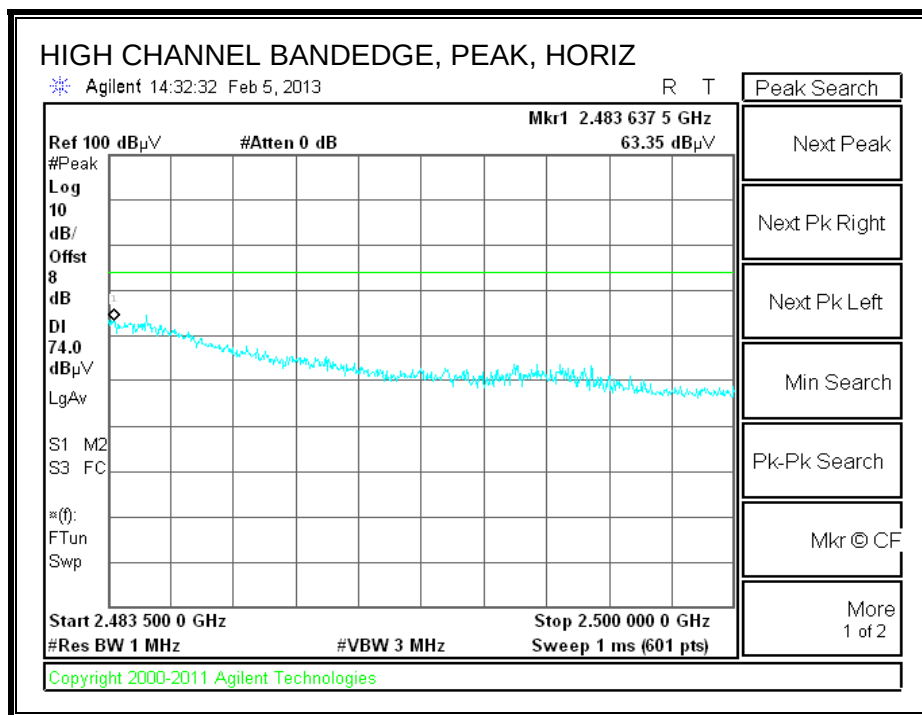
10.2.3. TX ABOVE 1 GHz 802.11n HT20 MODE IN THE 2.4 GHz BAND

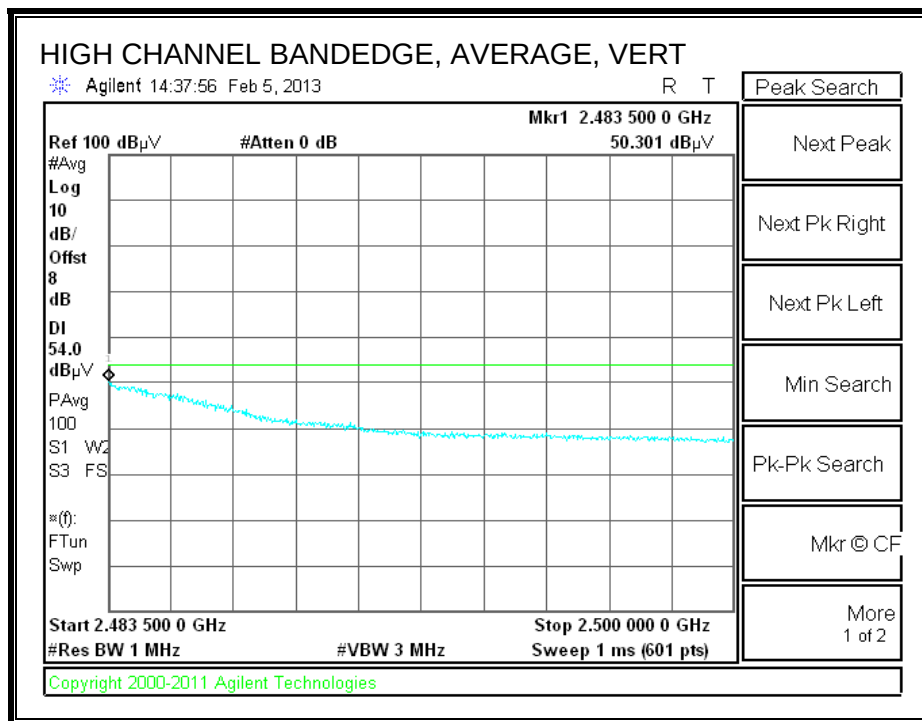
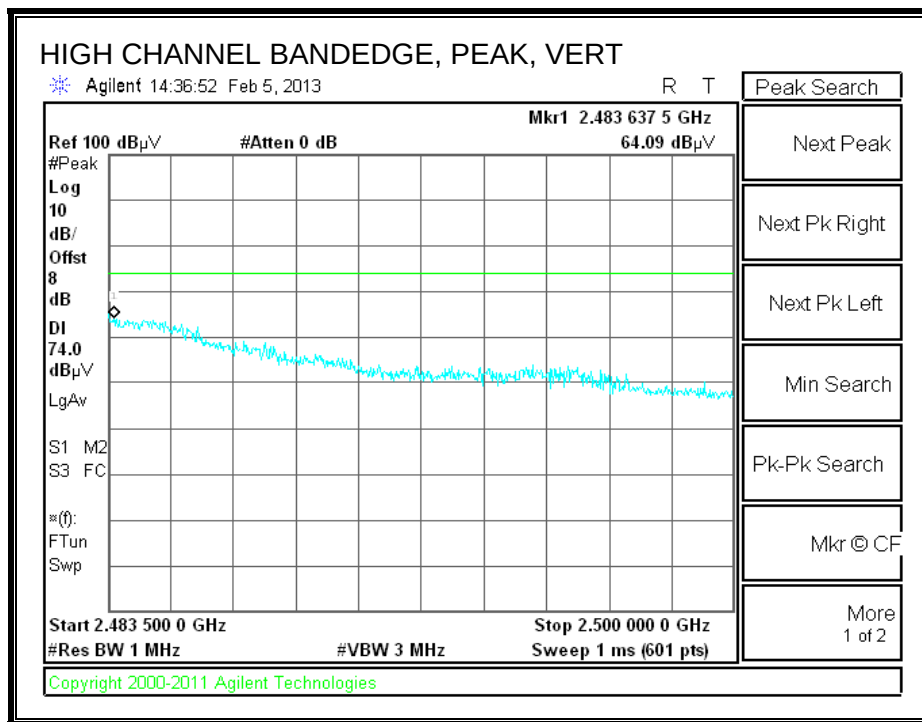
RESTRICTED BANDEDGE (LOW CHANNEL)





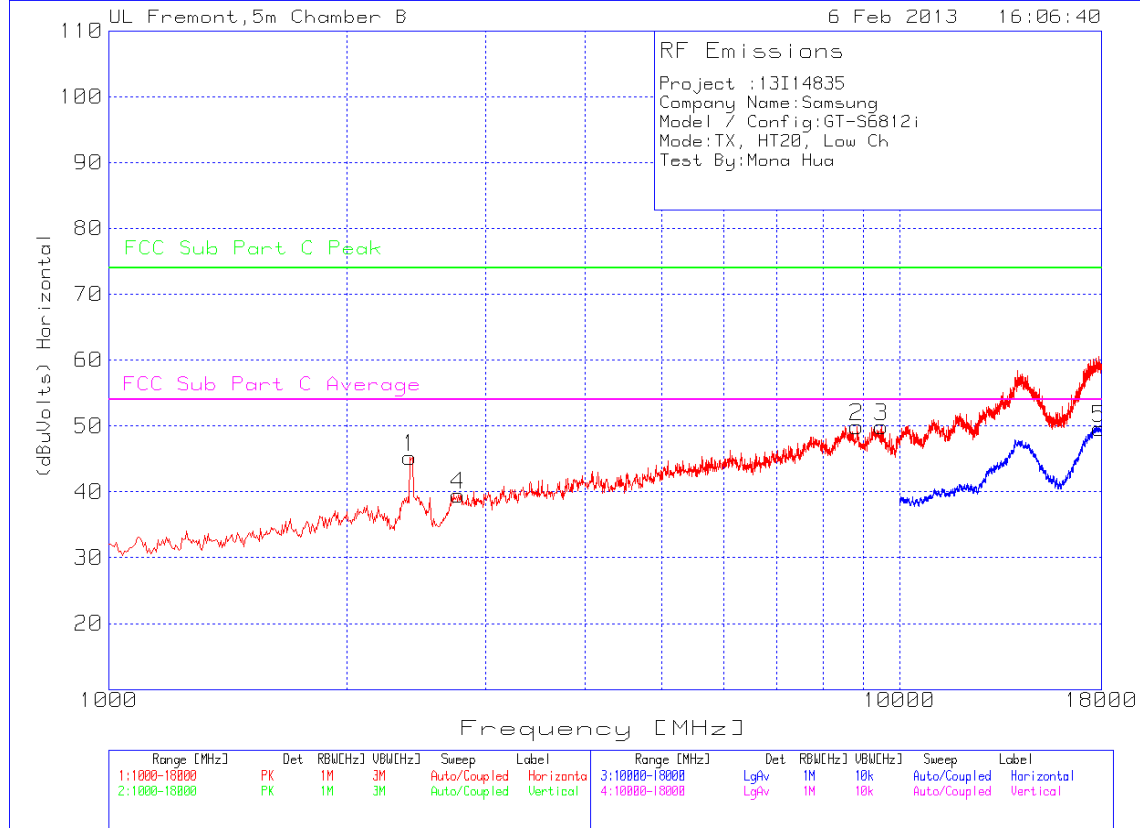
AUTHORIZED BANDEDGE (HIGH CHANNEL)





HARMONICS AND SPURIOUS EMISSIONS

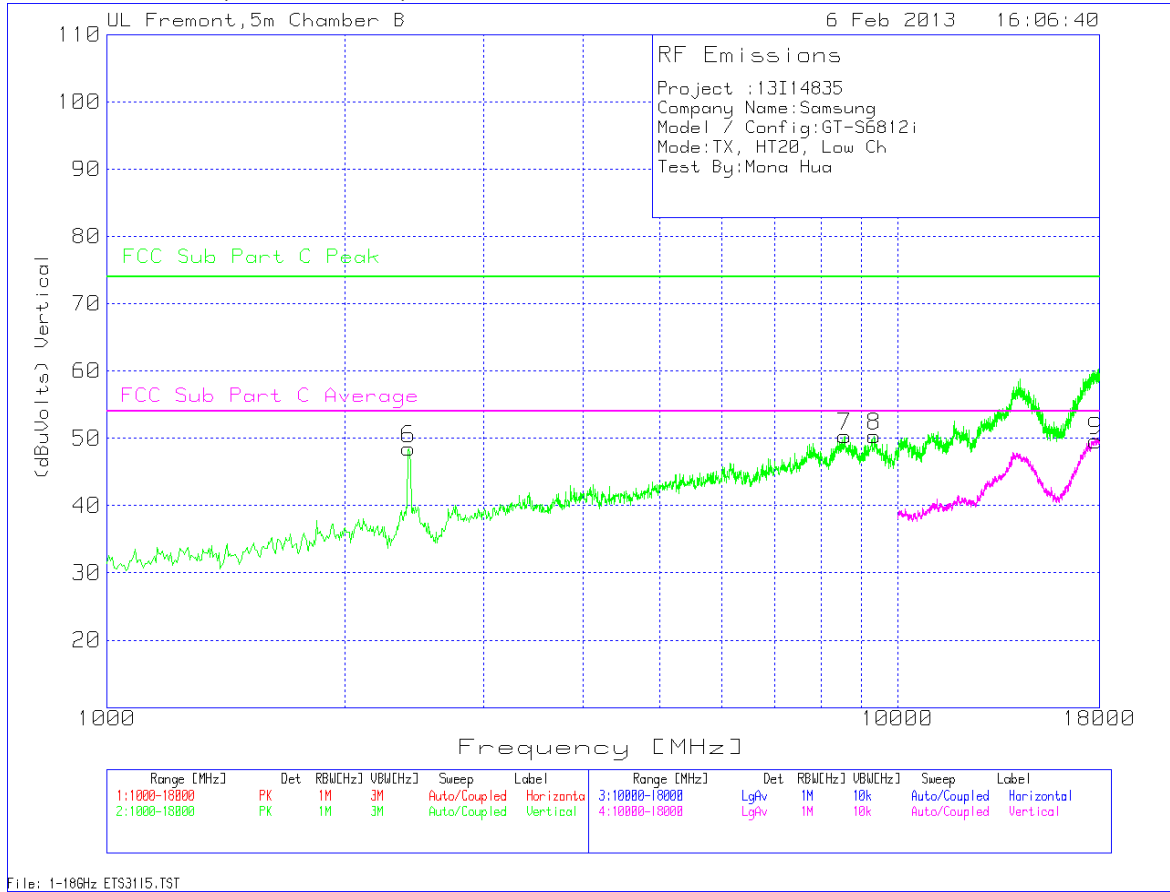
LOW CHANNEL, HARMONIC, HORIZONTAL



File: 1-18GHz ETS3115.TST

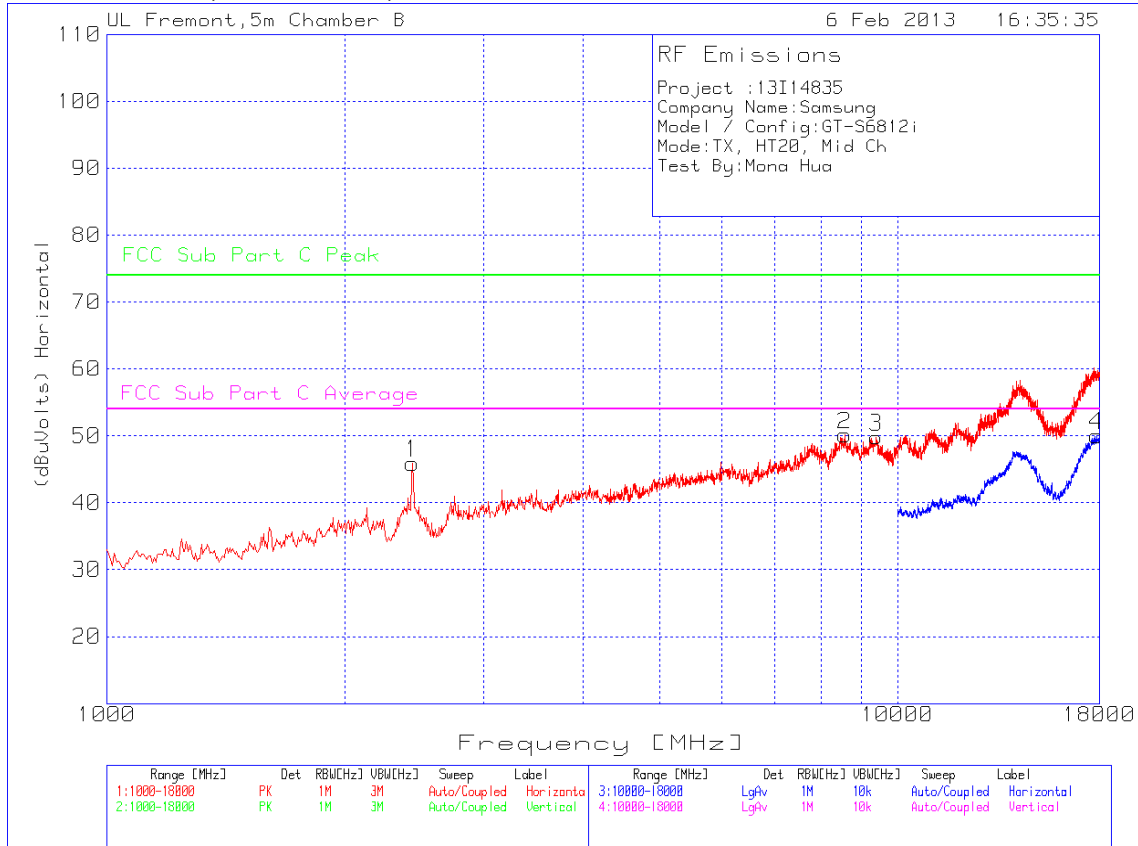
Horizontal 1000 - 18000MHz														
Test Frequency	Meter Reading	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	HP 84498 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Azimuth [Degs]	Height [cm]	Polarity
1	2404.397	47.47	PK	28.6	4.6	-36.9	1.5	45.27	74	-28.73	54	-8.73	200	Horz
2	8831.779	37.7	PK	37.4	9.8	-36	1	49.9	74	-24.1	54	-4.1	200	Horz
3	9483.011	37.41	PK	37.5	10.2	-36.2	1	49.91	74	-24.09	54	-4.09	200	Horz
4	2766.822	40.91	PK	29	5	-36.8	1.4	39.51	74	-34.49	54	-14.49	100	Horz
Horizontal 10000 - 18000MHz														
Test Frequency	Meter Reading	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	HP 84498 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Azimuth [Degs]	Height [cm]	Polarity
5	17908.05	22.58	AV	46.2	14.8	-34.9	1	49.68	74	-24.32	54	-4.32	200	Horz
AVG Vertical 1000 - 18000MHz														
Test Frequency	Meter Reading	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	HP 84498 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Azimuth [Degs]	Height [cm]	Polarity
9493.62	34.89	MAV1	37.5	10.2	-36.2	1	47.39	74	-26.61	54	-6.61	360	200	Horz

LOW CHANNEL, HARMONIC, VERTICAL



Vertical 1000 - 18000MHz														
Test Frequency	Meter Reading	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	HP 84498 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Azimuth [Degs]	Height [cm]	Polarity
6	2410.06	50.7	PK	28.6	4.6	-36.9	1.5	48.5	74	-25.5	54	-5.5	100	Vert
7	8571.286	38.56	PK	37.2	9.6	-36	1	50.36	74	-23.64	54	-3.64	100	Vert
8	9352.765	37.96	PK	37.5	10.1	-36.2	1	50.36	74	-23.64	54	-3.64	200	Vert
Vertical 10000 - 18000MHz														
Test Frequency	Meter Reading	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	HP 84498 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Azimuth [Degs]	Height [cm]	Polarity
9	17812.09	22.78	AV	46	14.7	-34.8	1	49.68	74	-24.32	54	-4.32	200	Vert

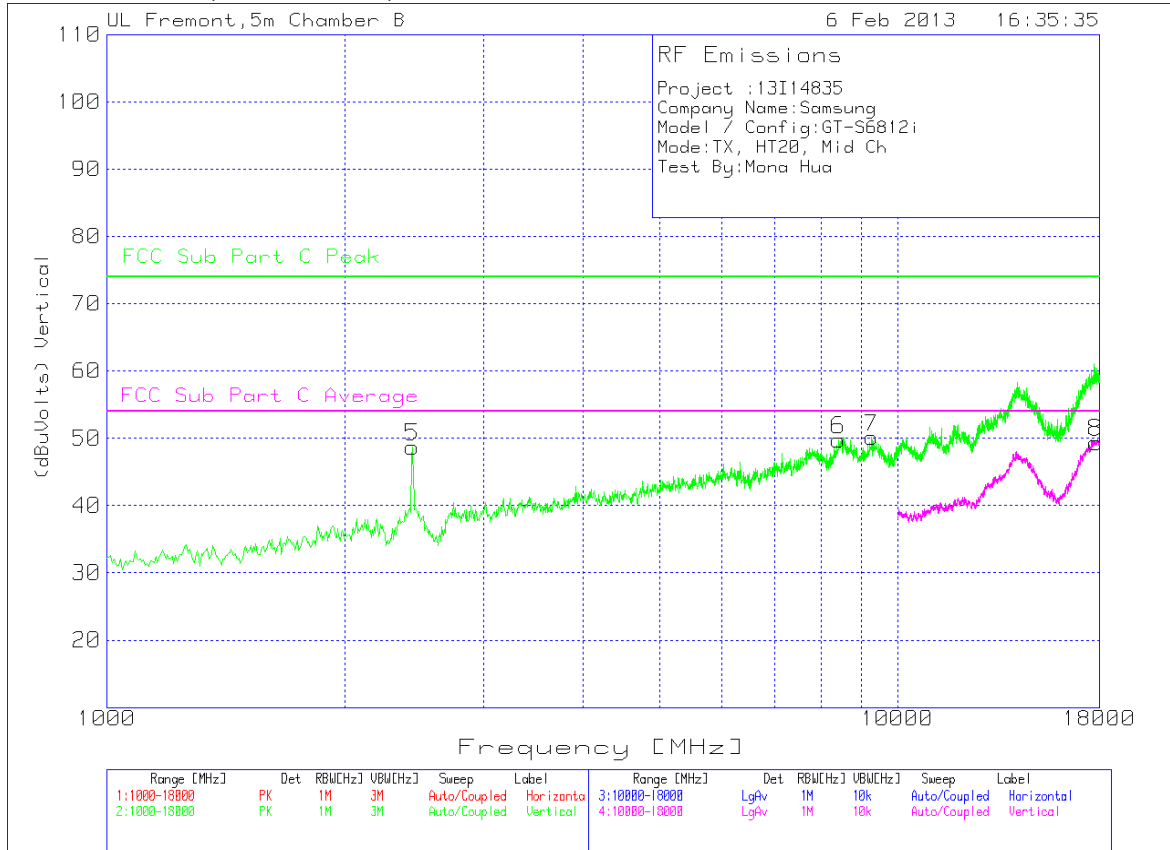
MID CHANNEL, HARMONIC, HORIZONTAL



File: mid.DAT

Horizontal 1000 - 18000MHz														
Test Frequency	Meter Reading	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	HP 8449B 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Azimuth [Degs]	Height [cm]	Polarity
1	2432.712	48.02	PK	28.6	4.7	-36.9	1.5	45.92	74	-28.08	54	-8.08	200	Horz
2	8571.286	38.32	PK	37.2	9.6	-36	1	50.12	74	-23.88	54	-3.88	200	Horz
3	9403.731	37.43	PK	37.5	10.1	-36.2	1	49.83	74	-24.17	54	-4.17	200	Horz
Horizontal 10000 - 18000MHz														
Test Frequency	Meter Reading	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	HP 8449B 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Azimuth [Degs]	Height [cm]	Polarity
4	17876.06	22.91	AV	46.2	14.8	-34.9	1	50.01	74	-23.99	54	-3.99	100	Horz
AVG Horizontal 1000 - 18000MHz														
Test Frequency	Meter Reading	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	HP 8449B 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Azimuth [Degs]	Height [cm]	Polarity
9506.66	35.28	MAV1	37.5	10.2	-36.2	1	47.78	74	-26.22	54	-6.22	360	100	Horz

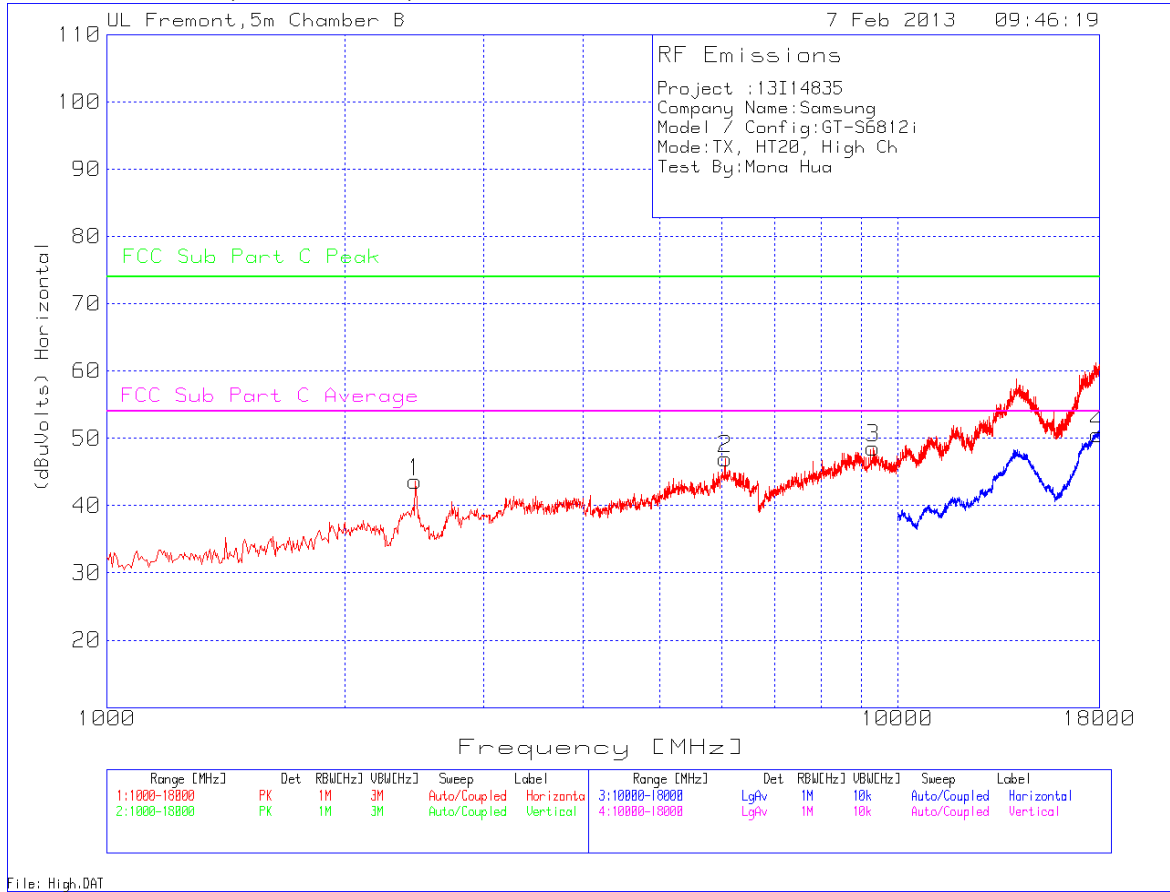
MID CHANNEL, HARMONIC, VERTICAL



File: mid.DAT

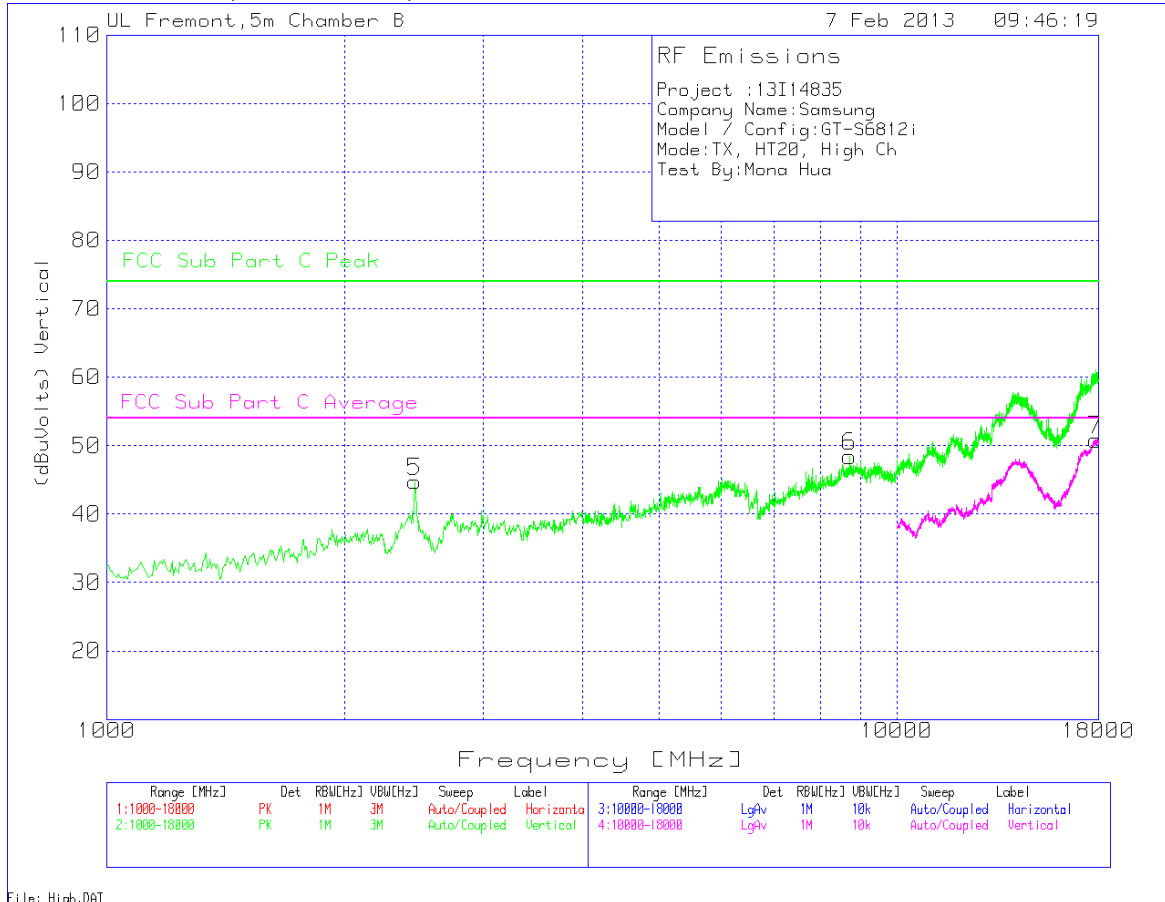
Vertical 1000 - 18000MHz													
Test	Meter	Detector	EMCO 31115	Cable	HP 8449B 1-	Filter		FCC Sub Part		FCC Sub Part		Azimuth	Height
Frequency	Reading		1-18GHz [dB]	[dB]	18GHz [dB]	[dB]	(dBuVolts)	C Peak	Margin	C Average	Margin	[Degs]	[cm]
5	2432.712	50.77	PK	28.6	4.7	-36.9	1.5	48.67	74	-25.33	54	-5.33	100
6	8424.051	38.05	PK	37.1	9.6	-36	1	49.75	74	-24.25	54	-4.25	200
7	9279.147	37.82	PK	37.4	10.1	-36.2	1	50.12	74	-23.88	54	-3.88	100
Vertical 10000 - 18000MHz													
Test	Meter	Detector	EMCO 31115	Cable	HP 8449B 1-	Filter		FCC Sub Part		FCC Sub Part		Azimuth	Height
Frequency	Reading		1-18GHz [dB]	[dB]	18GHz [dB]	[dB]	(dBuVolts)	C Peak	Margin	C Average	Margin	[Degs]	[cm]
8	17820.09	22.34	AV	46.1	14.7	-34.8	1	49.34	74	-24.66	54	-4.66	100

HIGH CHANNEL, HARMONIC, HORIZONTAL



Horizontal 1000 - 18000MHz														
Test Frequency	Meter Reading	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	HP 8449B 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Azimuth [Degs]	Height [cm]	Polarity
1	2455.363	45.68	PK	28.6	4.7	-36.9	1.5	43.58	74	-30.42	54	-10.42	200	Horz
2	6051.299	38.9	PK	34.5	8	-35.4	1	47	74	-27	54	-7	100	Horz
3	9324.45	36.17	PK	37.5	10.1	-36.2	1	48.57	74	-25.43	54	-5.43	100	Horz
Horizontal 10000 - 18000MHz														
Test Frequency	Meter Reading	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	HP 8449B 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Azimuth [Degs]	Height [cm]	Polarity
4	17920.04	23.51	AV	46.2	14.8	-34.9	1	50.61	74	-23.39	54	-3.39	100	Horz
AVG Horizontal 1000 - 18000MHz														
Test Frequency	Meter Reading	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	HP 8449B 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Azimuth [Degs]	Height [cm]	Polarity
9495.56	26	MAV1	37.5	10.2	-36.2	1	38.5	74	-35.5	54	-15.5	37	100	Horz

HIGH CHANNEL, HARMONIC, VERTICAL

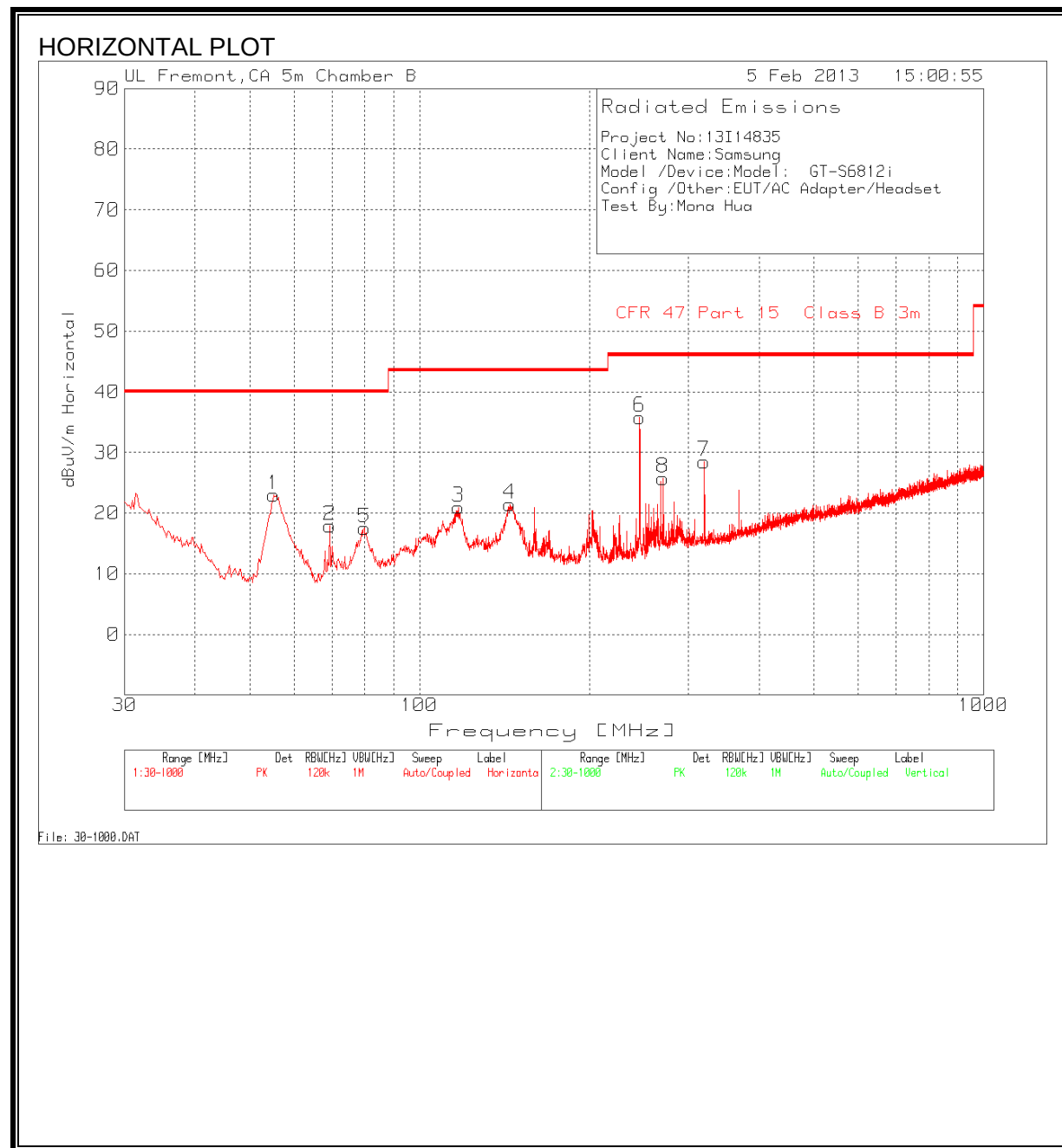


Vertical 1000 - 18000MHz														
Test Frequency	Meter Reading	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	HP 84498 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Azimuth [Degs]	Height [cm]	Polarity
5	2455.363	46.87	PK	28.6	4.7	-36.9	1.5	44.77	74	-29.23	54	-9.23	100	Vert
6	8718.521	36.45	PK	37.3	9.7	-36	1	48.45	74	-25.55	54	-5.55	100	Vert
Vertical 10000 - 18000MHz														
Test Frequency	Meter Reading	Detector	EMCO 31115 1-18GHz [dB]	Cable [dB]	HP 84498 1-18GHz [dB]	Filter [dB]	(dBuVolts)	FCC Sub Part C Peak	Margin	FCC Sub Part C Average	Margin	Azimuth [Degs]	Height [cm]	Polarity
7	17864.07	23.85	AV	46.1	14.8	-34.9	1	50.85	74	-23.15	54	-3.15	100	Vert

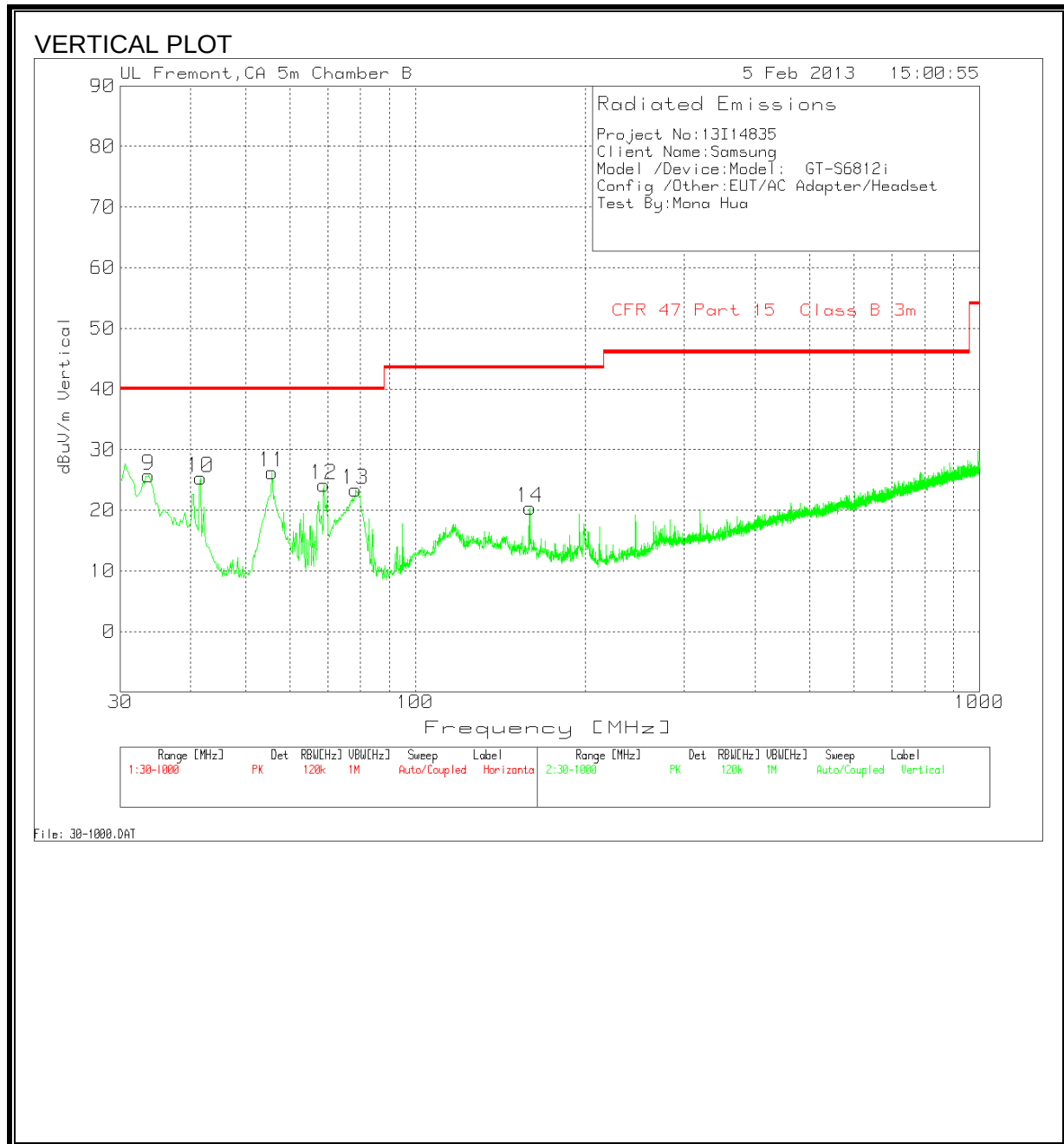
There are no emissions from 18 GHz to 26 GHz.

10.3. WORST-CASE BELOW 1 GHz

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



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



HORIZONTAL & VERTICAL DATA

Project No:13I14835										
Client Name:Samsung										
Model /Device:Model: GT-S6812i										
Config /Other:EUT/AC Adapter/Headset										
Test By:Mona Hua										
Horizontal 30 - 1000MHz										
Marker No.	Test Frequency	Meter Reading	Detector	T122 Sunol Bilog.TXT (dB)	5mB Amp Path 30-1000MHz (dB)	dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
1	55.1998	44.66	PK	7.3	-29	22.96	40	-17.04	400	Horz
2	69.3505	38.7	PK	8.1	-28.9	17.9	40	-22.1	400	Horz
3	117.4241	35.59	PK	13.8	-28.4	20.99	43.5	-22.51	300	Horz
4	144.5624	36.78	PK	12.8	-28.1	21.48	43.5	-22.02	100	Horz
5	79.8181	38.5	PK	7.8	-28.8	17.5	40	-22.5	200	Horz
6	245.7494	51.33	PK	11.7	-27.2	35.83	46	-10.17	100	Horz
7	319.992	41.54	PK	13.8	-26.8	28.54	46	-17.46	100	Horz
8	270.3677	39.55	PK	13.2	-27	25.75	46	-20.25	100	Horz
Vertical 30 - 1000MHz										
Marker No.	Test Frequency	Meter Reading	Detector	T122 Sunol Bilog.TXT (dB)	5mB Amp Path 30-1000MHz (dB)	dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
9	33.6831	36.4	PK	18.6	-29.2	25.8	40	-14.2	100	Vert
10	41.6307	41.96	PK	12.6	-29.2	25.36	40	-14.64	100	Vert
11	55.7814	48.08	PK	7.2	-29	26.28	40	-13.72	200	Vert
12	68.9628	45.03	PK	8.1	-28.9	24.23	40	-15.77	100	Vert
13	78.4612	44.25	PK	8	-28.8	23.45	40	-16.55	100	Vert
14	159.6823	35.86	PK	12.5	-27.9	20.46	43.5	-23.04	300	Vert

11. 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

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.4.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

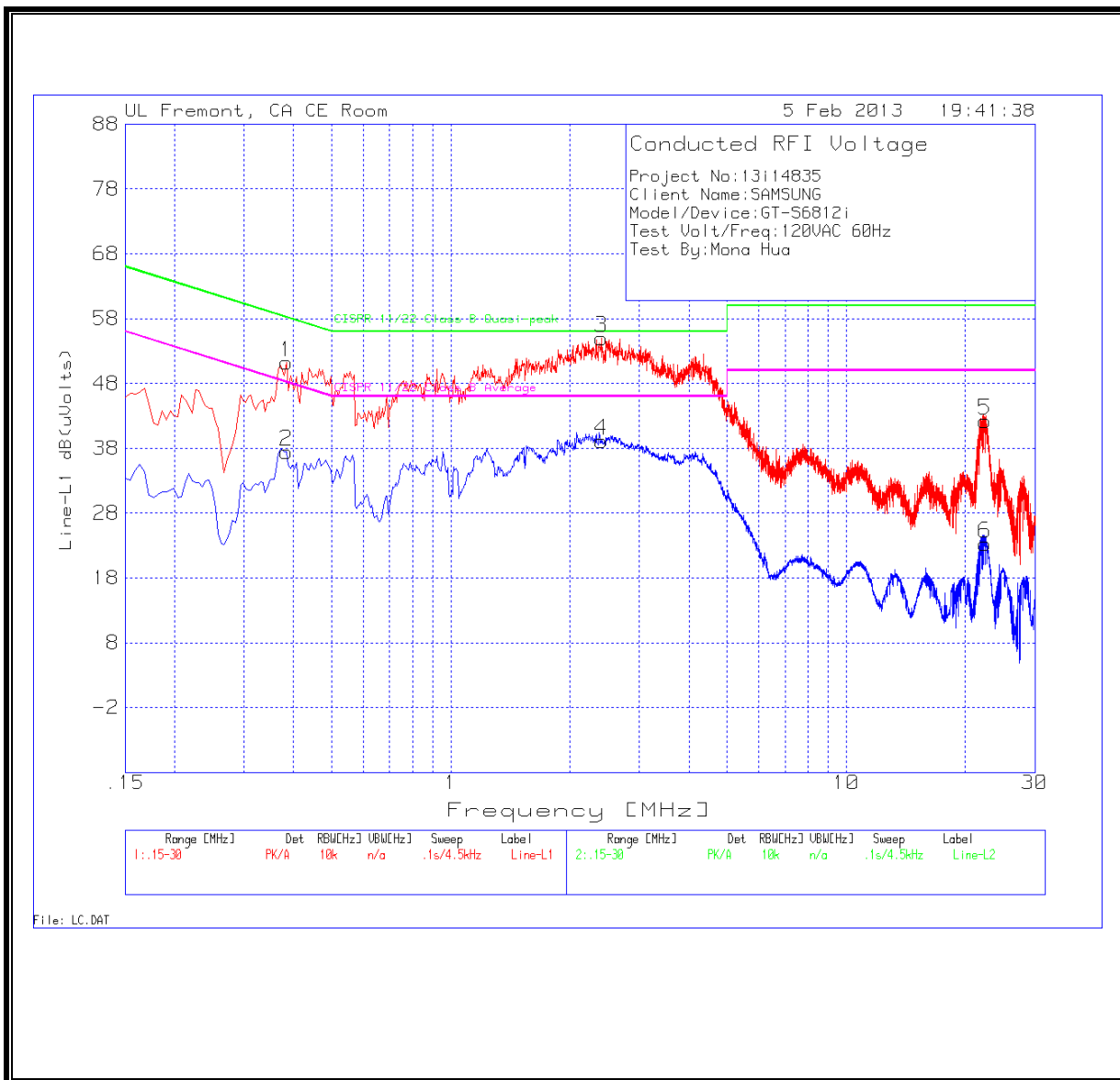
Line conducted data is recorded for both NEUTRAL and HOT lines.

RESULTS

6 WORST EMISSIONS

Project No:13I14835									
Client Name:SAMSUNG									
Model/Device:GT-S6812I									
Test Volt/Freq:120VAC 60Hz									
Test By:Mona Hua									
Line-L1 .15 - 30MHz									
Test Frequency	Meter Reading	Detector	T24 IL L1.TXT (dB)	LC Cables 1&3.TXT (dB)	dB(uVolts)	CISPR Class B Quasi-peak	Margin	CISPR 11/22 Class B Average	Margin
0.384	51.09	PK	0.1	0	51.19	58.2	-7.01	-	-
0.384	37.39	Av	0.1	0	37.49	-	-	48.2	-10.71
2.4	54.83	PK	0.1	0.1	55.03	56	-0.97	-	-
2.4	38.96	Av	0.1	0.1	39.16	-	-	46	-6.84
22.4655	41.67	PK	0.4	0.2	42.27	60	-17.73	-	-
22.4655	22.67	Av	0.4	0.2	23.27	-	-	50	-26.73
Line-L2 .15 - 30MHz									
Test Frequency	Meter Reading	Detector	T24 IL L2.TXT (dB)	LC Cables 2&3.TXT (dB)	dB(uVolts)	CISPR Class B Quasi-peak	Margin	CISPR Class B Average	Margin
0.4155	48.41	PK	0.1	0	48.51	57.5	-8.99	-	-
0.4155	35.62	Av	0.1	0	35.72	-	-	47.5	-11.78
2.3775	52.37	PK	0.1	0.1	52.57	56	-3.43	-	-
2.3775	35.91	Av	0.1	0.1	36.11	-	-	46	-9.89
4.164	50.95	PK	0.1	0.1	51.15	56	-4.85	-	-
4.164	32.73	Av	0.1	0.1	32.93	-	-	46	-13.07

LINE 1 RESULTS



LINE 2 RESULTS

