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Project Number:	12U4359
FCC ID	V65C5155
Date:	April 27, 2012
Model:	C5155 G01

Electromagnetic Compatibility Test Report

For

KYOCERA Communications, Inc.

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FCC ID: V65C5155
Model Number: C5155 G01
Client Name: Kyocera Communications

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Test Report Details

Tests Performed By: Underwriters Laboratories Inc.
333 Pfingsten Rd.
Northbrook, IL 60062

Tests Performed For: KYOCERA Communications, Inc.
8611 Balboa Ave
San Diego, CA 92123

Applicant Contact: Thuy To
Title: Senior Regulatory Engineer
Phone: 858-882-2137
E-mail: thuy.to@kyocera.com

Test Report Date: April 27, 2012

Product Type: CDMA Mobile Phone with Bluetooth

Product standards FCC Part 15, Subpart C 15.247 – (15.207 and 15.209 tests),

Model Number: C5155 G01
FCC ID V65C5155

EUT Category: Transceiver

Testing Start Date: April 11, 2012

Date Testing Complete: April 27, 2012

Overall Results: Compliant

UL LLC reports apply only to the specific samples tested under stated test conditions. All samples tested were in good operating condition throughout the entire test program. It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical components. UL LLC shall have no liability for any deductions, inferences or generalizations drawn by the client or others from UL LLC issued reports. 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.

This report may contain test results that are not covered by the NVLAP or A2LA accreditation. The scope of accreditation is limited to the specific tests that are listed on the NVLAP and/or A2LA websites referenced at the end of this report.

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Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
None			

1 GENERAL - Product Description

1.1 Equipment Description

FCC V65C5155 Cell phone with BT and Wifi capabilities. Only Radiated Spurious Emissions, Bandedge, and Conducted Emissions AC mains were performed.

1.2 Equipment Marking Plate

N/A

1.3 Device Configuration During Test

1.3.1 Equipment Used During Test:

Use	Product Type	Manufacturer	Model	Comments
EUT	CDMA Mobile Phone	KYOCERA Communications, Inc.	C5155	None
EUT	Power Supply	KYOCERA Communications, Inc.	SCP-31ADT	Input:100-240Vac 50/60Hz 0.2A Output: 5Vdc 800mA
AE	Ear Phones	-	-	None

Note: **EUT** - Equipment Under Test, **AE** - Auxiliary/Associated Equipment, or **SIM** - Simulator (Not Subjected to Test)

1.3.2 Input/Output Ports:

Port #	Name	Type*	Cable Max. >3m (Y/N)	Cable Shielded (Y/N)	Comments
0	Enclosure	N/E	—	—	None
1	Mains	AC	N	N	None
2	Mains	Batt	-	-	3.7V Rechargeable battery
3	Headphone	I/O	N	N	None

Note:
 AC = AC Power Port DC = DC Power Port N/E = Non-Electrical
 I/O = Signal Input or Output Port (Not Involved in Process Control)
 TP = Telecommunication Ports

1.3.3 EUT Internal Operating Frequencies:

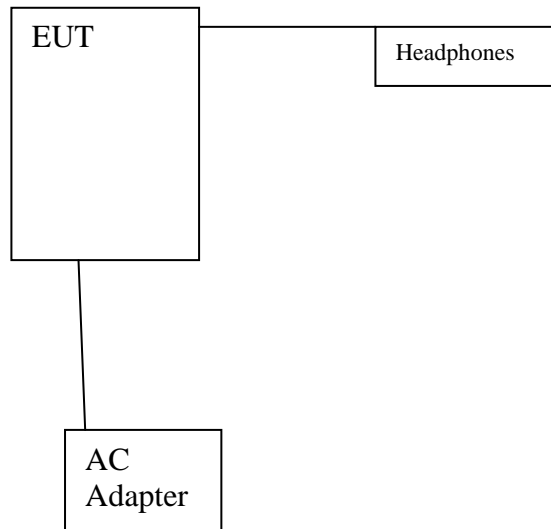
Frequency (MHz)	Description
2400	Wifi

1.3.4 Power Interface:

Mode # /Rated	Voltage (V)	Current (A)	Power (W)	Frequency (DC/AC-Hz)	Phases (#)	Comments
1	Battery Operated	-	-	DC	-	None
2	120Vac	-	-	60Hz	Single	None

1.4 Block Diagram:

The diagram below illustrates the configuration of the equipment above.



1.5 EUT Configurations

Mode #	Description
1	EUT was configured with headphones connected and either in Battery or AC mode as indicated in the caption of each plot

1.6 EUT Operation Modes

Mode #	Description
1	EUT was programmed to various operating modes indicated by the caption in each plot

1.7 Rational for EUT Configuration

Mode #	Description
1	The selected EUT configuration was chosen to maximize emissions

2 Summary

The tests listed in the Summary of Testing section of this report have been performed and the results recorded by UL LLC in accordance with the procedures stated in each test requirement and specification. The applicant determined the list of tests performed were applicable to the Equipment Under Test. As a result, the subject product has been verified to comply or not comply as noted in the Summary of Testing with each test specification. The test results relate only to the items tested.

2.1 Deviations from standard test methods

None

2.2 Device Modifications Necessary for Compliance

None

2.3 Reference Standards

Standard Number	Standard Name	Standard Date
FCC Part 15, Subpart C	Code of Federal Regulations, Part 15, Radio Frequency Devices	2011

2.4 Results Summary

This product is considered Class B

Requirement – Test	Result (Compliant / Non-Compliant)*
Conducted Emissions	Compliant
Radiated Emissions including Bandedge	Compliant

Test Engineer:



Michael Ferrer (Ext.41312)
Senior Project Engineer
International EMC Services
Conformity Assessment Services

Reviewer:



Mike Antola (Ext. 23053)
Senior Project Engineer
International EMC Services
Conformity Assessment Services

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3 Calibration of Equipment Used for Measurement

All test equipment and test accessories are calibrated on a regular basis. The maximum time between calibrations is one year or the manufacturers' recommendation, whichever is less.

All test equipment calibrations are traceable to the National Institute of Standards and Technology (NIST); therefore, all test data recorded in this report is traceable to NIST.

4 EMISSIONS TEST RESULTS

The emissions tests were performed according to following regulations:

----- United States -----

Code of Federal Regulations Title 47	Part 15, Subpart C, Radio Frequency Devices
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Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be verified at the time the test is conducted.

Ambient Temperature, °C	22.5 ± 2.5	Relative Humidity, %	45 ± 15	Barometric Pressure, mBar	950 ± 150
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Measurement Uncertainty

Test	Uncertainty
Conducted Emissions	+/- 0.6dB (k=2)
Radiated Emissions	+/- 3.1dB (k=2)

Sample Calculations

Radiated Field Strength and Conducted Emissions data contained within this report is calculated on the following basis:

Field Strength (dBuV/m) = Meter Reading (dBuV) + AF (dB/m) - Gain (dB) + Cable Loss (dB)

Conducted Voltage (dBuV) = Meter Reading (dBuV) + Cable Loss (dB) + LISN IL (dB)

Conducted Current (dBUA) = Meter Reading (dBuV) + Cable Loss (dB) - Transducer Factor (dBohms)

4.1

Test Conditions and Results – MAINS TERMINAL – CONDUCTED EMISSIONS

Test Description	Measurements were made on a ground plane. All power was connected to the system through Artificial Mains Network (AMN). Conducted voltage measurements on mains lines were made at the output of the AMN.	
Basic Standard	FCC Part 15.207	
UL LPG	80-EM-S0026	
	Frequency range on each side of line	Measurement Point
Fully configured sample scanned over the following frequency range	150kHz to 30MHz	Mains
Limits - Class B		
Frequency (MHz)	Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50
Supplementary information: None		

Table 1 Conducted Emissions EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	1
Supplementary information: None		

Table 2 Conducted Emissions Test Equipment

Description	Manufacturer	Model	Identifier	Cal Date	Cal Due
EMI Test Receiver	Rohde & Schwarz	ESCI	EMC4328	12/28/11	12/28/12
Transient Limiter	Electro-Metrics	EM7600-2	EMC4224	N/A	N/A
HighPass Filter	Solar Electronics	2803-150	EMC4327	N/A	N/A
Attenuator	HP	8494B	2831A00838	N/A	N/A
LISN - L1	Solar	8602-50-TS-50-N	EMC4052	1/6/12	1/7/13
LISN - L2	Solar	8602-50-TS-50-N	EMC4064	1/6/12	1/7/13

Figure 1 Test Setup for Conducted Emissions

See Photos exhibit

Figure 2 Conducted Emissions Graph

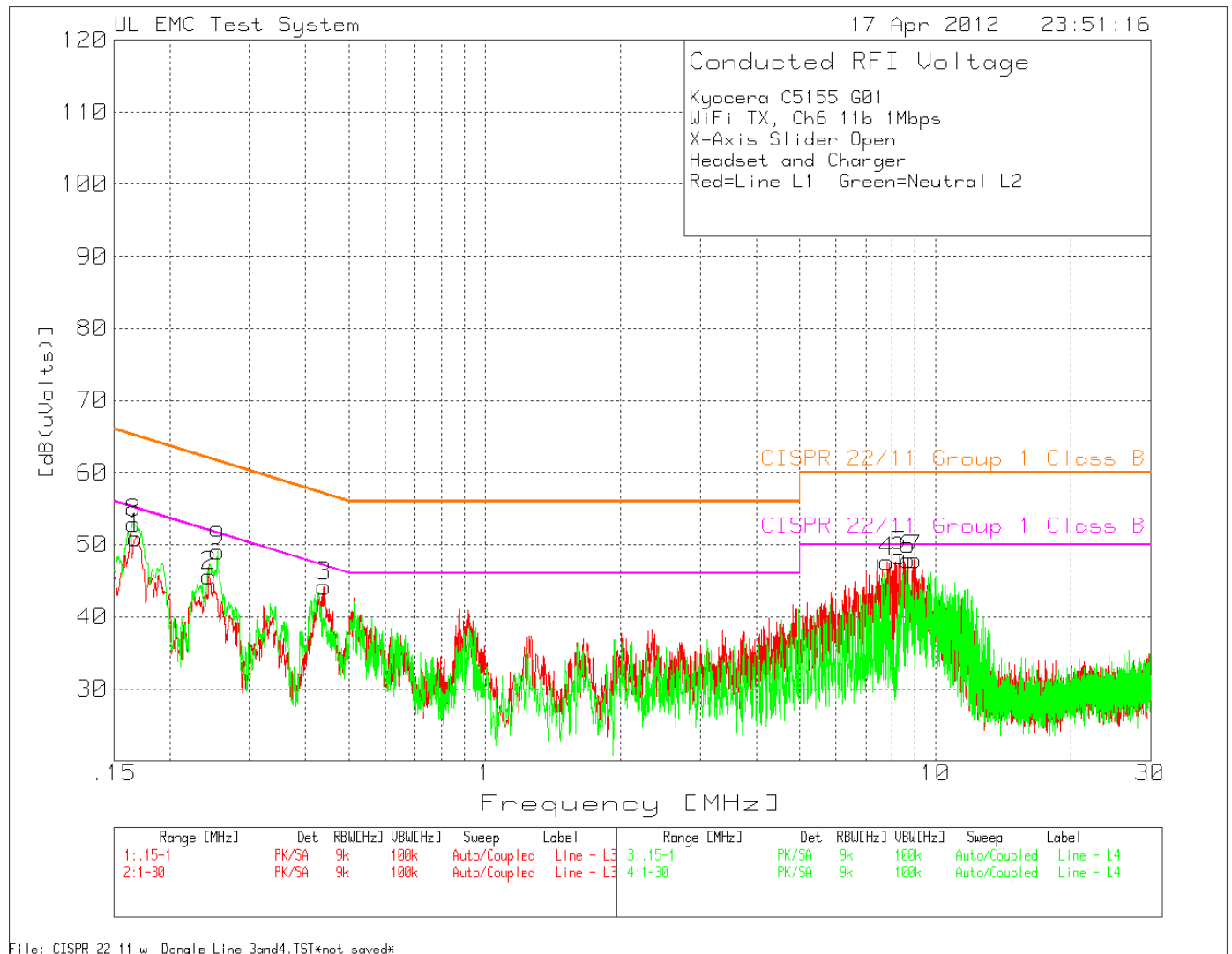


Table 3 Conducted Emissions Data Points

Kyocera C5155 G01
WiFi TX, Ch6 11b 1Mbps
X-Axis Slider Open
Headset and Charger
Red=Line L1 Green=Neutral L2

No.	Test Frequency [MHz]	Meter Reading [dB(uV)]	Transducer Factor [dB]	Gain/Loss Factor [dB]	Level [dB(uVolts)]	Limit:1	2	3	4	5	6
=====											
Line - L3 .15 - 1MHz -----											
1	.16762	38.38 PK	.1	12.4	50.88	-	-	65.1	55.1	-	-
				Margin [dB]		-	-	-14.22	-4.22	-	-
2	.2447	34.24 PK	.1	11.3	45.64	-	-	61.9	51.9	-	-
				Margin [dB]		-	-	-16.26	-6.26	-	-
3	.43942	33.42 PK	.1	10.7	44.22	-	-	57.1	47.1	-	-
				Margin [dB]		-	-	-12.88	-2.88	-	-
Line - L3 1 - 30MHz -----											
4	7.81266	36.42 PK	10.9	.3	47.62	-	-	60	50	-	-
				Margin [dB]		-	-	-12.38	-2.38	-	-
5	8.29437	37.09 PK	10.9	.5	48.49	-	-	60	50	-	-
				Margin [dB]		-	-	-11.51	-1.51	-	-
6	8.67466	36.31 PK	10.9	.7	47.91	-	-	60	50	-	-
				Margin [dB]		-	-	-12.09	-2.09	-	-
7	8.97165	36.37 PK	10.9	.6	47.87	-	-	60	50	-	-
				Margin [dB]		-	-	-12.13	-2.13	-	-
Line - L4 .15 - 1MHz -----											
8	.16635	40.43 PK	.1	12.4	52.93	-	-	65.1	55.1	-	-
				Margin [dB]		-	-	-12.17	-2.17	-	-
9	.2549	37.83 PK	.1	11.2	49.13	-	-	61.6	51.6	-	-
				Margin [dB]		-	-	-12.47	-2.47	-	-

LIMIT 3: CISPR 22/11 Group 1 Class B QP
LIMIT 4: CISPR 22/11 Group 1 Class B AV

PK - Peak detector

FCC ID: V65C5155
 Model Number: C5155 G01
 Client Name: Kyocera Communications

Kyocera C5155 G01
 WiFi TX, Ch6 11b 1Mbps
 X-Axis Slider Open
 Headset and Charger

Red=Line L1 Green=Neutral L2

Test	Meter	Transducer	Gain/Loss	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	[dB(uVolts)]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Line - L3 .15 - 1MHz										
.16761	34.54 QP	.1	12.4	47.04	-	-	65.08	55.08	-	-
			Margin [dB]:		-	-	-18.04	-8.04	-	-
.24494	27.21 QP	.1	11.3	38.61	-	-	61.93	51.93	-	-
			Margin [dB]:		-	-	-23.32	-13.32	-	-
.43992	29.33 QP	.1	10.7	40.13	-	-	57.06	47.06	-	-
			Margin [dB]:		-	-	-16.93	-6.93	-	-
Line - L3 1 - 30MHz										
7.81217	31.89 QP	10.9	.3	43.09	-	-	60	50	-	-
			Margin [dB]:		-	-	-16.91	-6.91	-	-
8.29447	30.53 QP	10.9	.5	41.93	-	-	60	50	-	-
			Margin [dB]:		-	-	-18.07	-8.07	-	-
8.6748	31 QP	10.9	.7	42.6	-	-	60	50	-	-
			Margin [dB]:		-	-	-17.4	-7.4	-	-
8.97172	31.12 QP	10.9	.6	42.62	-	-	60	50	-	-
			Margin [dB]:		-	-	-17.38	-7.38	-	-
Line - L4 .15 - 1MHz										
.16756	33.5 QP	.1	12.3	45.9	-	-	65.08	55.08	-	-
			Margin [dB]:		-	-	-19.18	-9.18	-	-
.25298	29.6 QP	.1	11.2	40.9	-	-	61.66	51.66	-	-
			Margin [dB]:		-	-	-20.76	-10.76	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

QP - Quasi-Peak detector

LIMIT 3: CISPR 22/11 Group 1 Class B QP

LIMIT 4: CISPR 22/11 Group 1 Class B AV

FCC ID: V65C5155
 Model Number: C5155 G01
 Client Name: Kyocera Communications

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Kyocera C5155 G01
 WiFi TX, Ch6 11b 1Mbps
 X-Axis Slider Open
 Headset and Charger

Red=Line L1 Green=Neutral L2

Test	Meter	Transducer	Gain/Loss	Level	Limit:1	2	3	4	5	6
Frequency	Reading	Factor	Factor	[dB(uVolts)]						
[MHz]	[dB(uV)]	[dB]	[dB]							
=====										
Line - L3 .15 - 1MHz										
.16761	21.38 Av	.1	12.4	33.88	-	-	65.08	55.08	-	-
			Margin [dB]:		-	-	-31.2	-21.2	-	-
.24494	18.21 Av	.1	11.3	29.61	-	-	61.93	51.93	-	-
			Margin [dB]:		-	-	-32.32	-22.32	-	-
.43992	22.21 Av	.1	10.7	33.01	-	-	57.06	47.06	-	-
			Margin [dB]:		-	-	-24.05	-14.05	-	-
Line - L3 1 - 30MHz										
7.81217	20.44 Av	10.9	.3	31.64	-	-	60	50	-	-
			Margin [dB]:		-	-	-28.36	-18.36	-	-
8.29447	20.08 Av	10.9	.5	31.48	-	-	60	50	-	-
			Margin [dB]:		-	-	-28.52	-18.52	-	-
8.6748	20.32 Av	10.9	.7	31.92	-	-	60	50	-	-
			Margin [dB]:		-	-	-28.08	-18.08	-	-
8.97172	21.21 Av	10.9	.6	32.71	-	-	60	50	-	-
			Margin [dB]:		-	-	-27.29	-17.29	-	-
Line - L4 .15 - 1MHz										
.16756	17.28 Av	.1	12.3	29.68	-	-	65.08	55.08	-	-
			Margin [dB]:		-	-	-35.4	-25.4	-	-
.25298	18.68 Av	.1	11.2	29.98	-	-	61.66	51.66	-	-
			Margin [dB]:		-	-	-31.68	-21.68	-	-

NOTE: "+" - Indicates an emission level in excess of the applicable limit (s).

Av - average detection

LIMIT 3: CISPR 22/11 Group 1 Class B QP
 LIMIT 4: CISPR 22/11 Group 1 Class B AV

4.2 Test Conditions and Results – RADIATED EMISSIONS

Test Description	Measurements were made in a 10-meter semi-anechoic chamber that complies to CISPR 16/ANSI C63.4. Preliminary (peak) measurements were performed at an antenna to EUT separation distance of 10 and 3 meter. The EUT was rotated 360° about its azimuth with the receive antenna located at various heights in both horizontal and vertical polarities. Final measurements (quasi-peak or average as noted) were then performed by rotating the EUT 360° and adjusting the receive antenna height from 1 to 4-meters. All frequencies were investigated in both horizontal and vertical antenna polarity, where applicable.	
Basic Standard	FCC Part 15	
UL LPG	80-EM-S0029	
	Frequency range	Measurement Point
Fully configured sample scanned over the following frequency range	30MHz – 1GHz	(10 meter measurement distance)
Fully configured sample scanned over the following frequency range	1GHz – 25GHz	(3 meter measurement distance)
Limits - Class B		
Frequency (MHz)	Limit (dBμV/m)	
	Quasi-Peak	Average
30-88	40	NA
88-216	43.5	NA
216-960	46	NA
960-1000	54	NA
960-25000 (3m)	74 (Peak)	54
<p>Supplementary information: If Emissions detected were at least 6dB below the limit no additional measurements were taken after prescan. The EUT was scanned in three orthogonal axis from 1GHz-25GHz set to 802.11b, 1Mbps, low, middle and high channels. In addition the EUT was set to 802.11g, 6Mbps and 802.11n, MCS0 to determine if any additional spurious emissions are generated by switching to different modulation. Band-edge scans were conducted at axis determined as worst case from initial 1GHz-25GHz scans in multiple modulation modes and data rates. Below 1GHz the EUT was scanned only in one axis, one modulation. No emissions related the transmitter were noted.</p> <p>Emissions found near 1.9GHz is noise floor.</p>		

Table 4 Radiated Emissions EUT Configuration Settings

Power Interface Mode #	EUT Configurations Mode #	EUT Operation Mode #
1	1	1
Supplementary information: None		

Table 5 Radiated Emissions Test Equipment

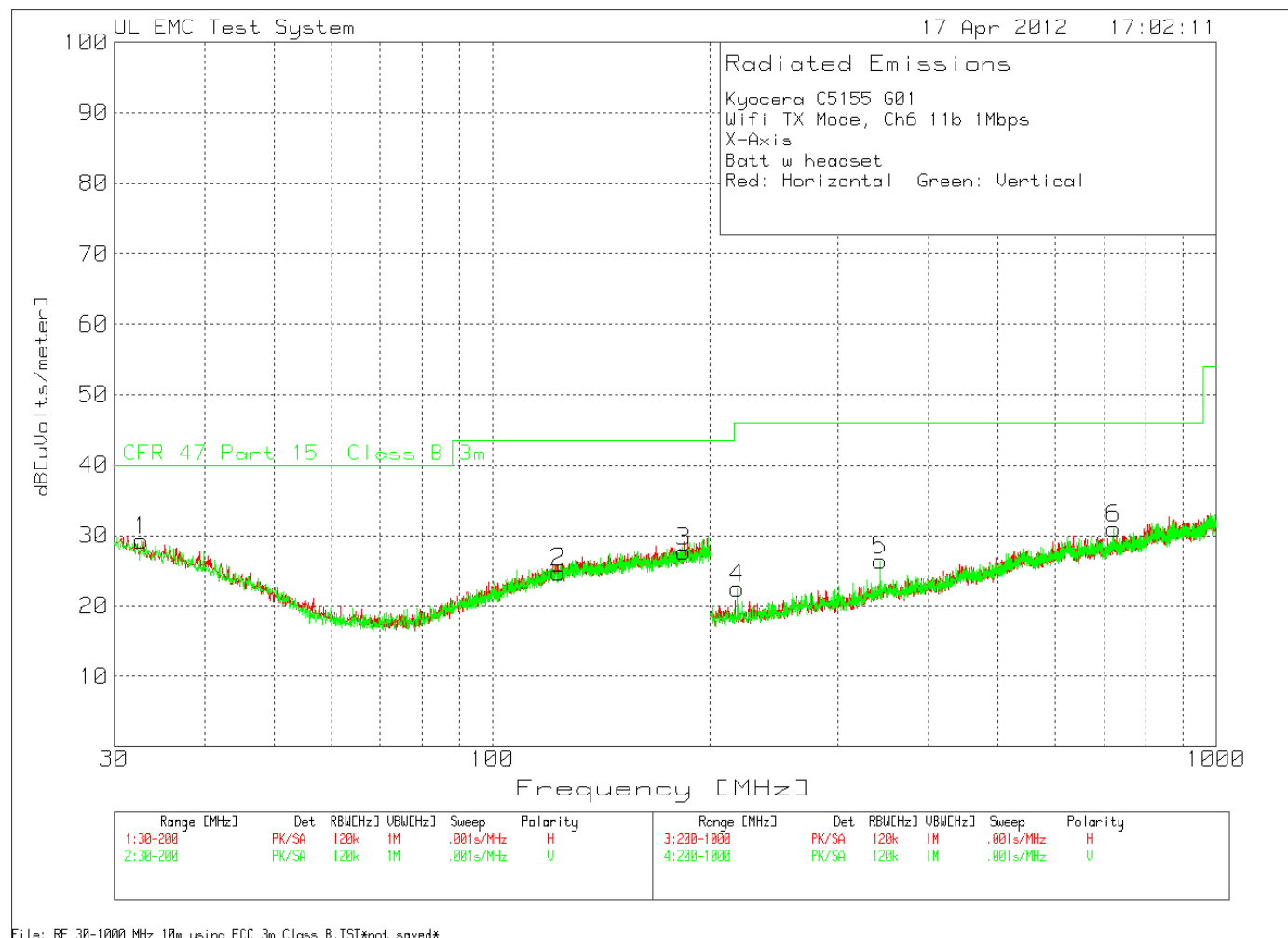
Description	Manufacturer	Model	Identifier	Cal Date	Cal Due
EMI Test Receiver	Rohde & Schwarz	ESU	EMC4323	12/27/11	12/27/12
Bicon Antenna	Chase	VBA6106A	EMC4078	1/17/12	1/31/13
Log-P Antenna	Chase	UPA6109	EMC4313	6/29/11	6/29/12
Spectrum Analyzer	Rhode & Schwarz	FSEK	EMC4182	12/27/11	12/31/12
Antenna Array	UL	BOMS	EMC4276	1/2/2012	1/2/2013

Figure 3 Test setup for Radiated Emissions

See Photo Exhibit

4.2.1.1 Spurious, 802.11b, 1Mbps, Middle Channel, Battery Mode, 30MHz – 1GHz

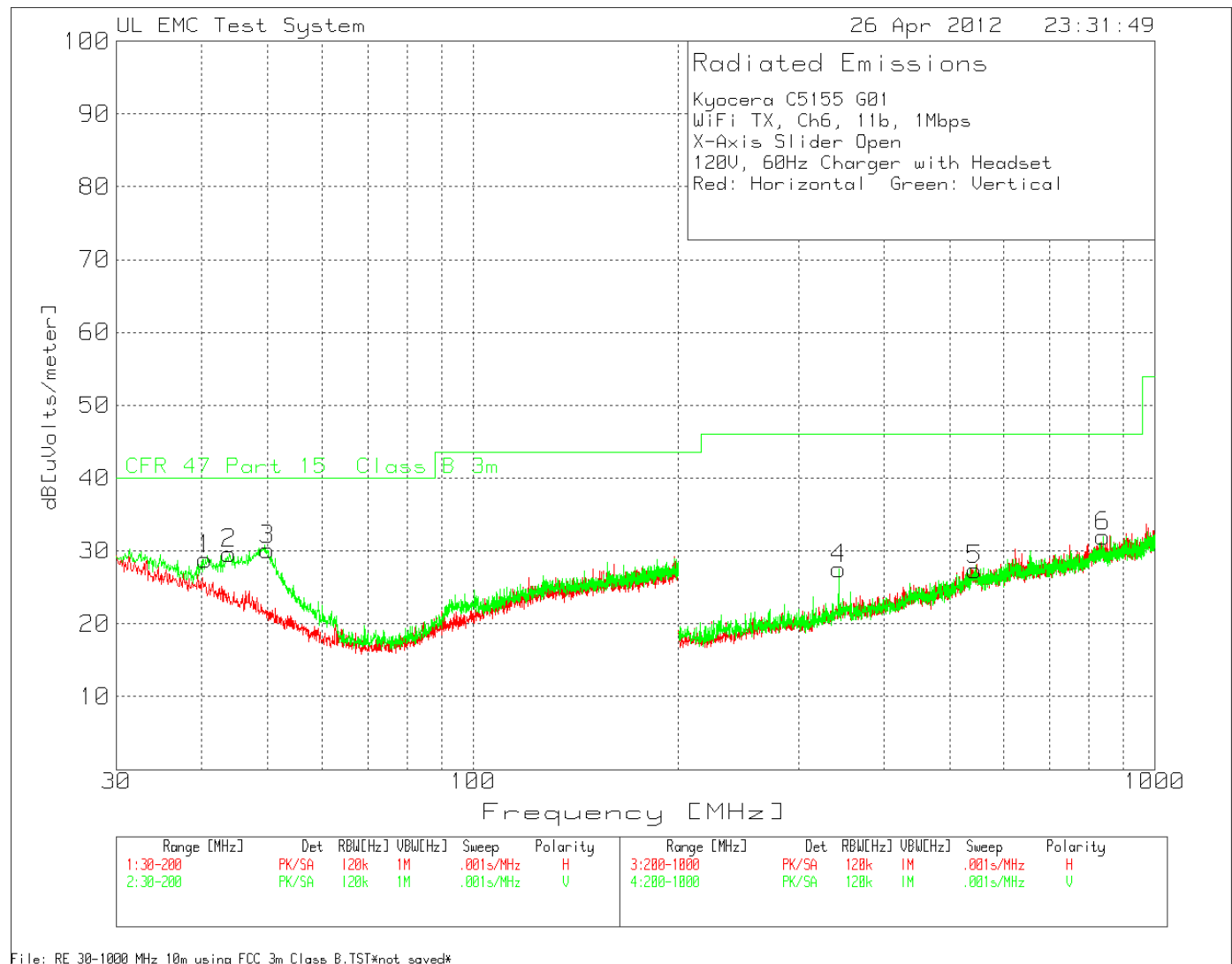
Figure 4 Radiated Emissions Graph X-Axis



No Emissions found within 6dB of the limit

4.2.1.2 Spurious, 802.11b, 1Mbps, Middle Channel, Charging Mode, 30MHz – 1GHz

Figure 5 Radiated Emissions Graph X-Axis



No Emissions found within 6dB of the limit

4.2.1.3 Spurious, 802.11b, 1Mbps, Low Channel, 1GHz – 25GHz

Figure 6 Radiated Emissions Graph X-Axis

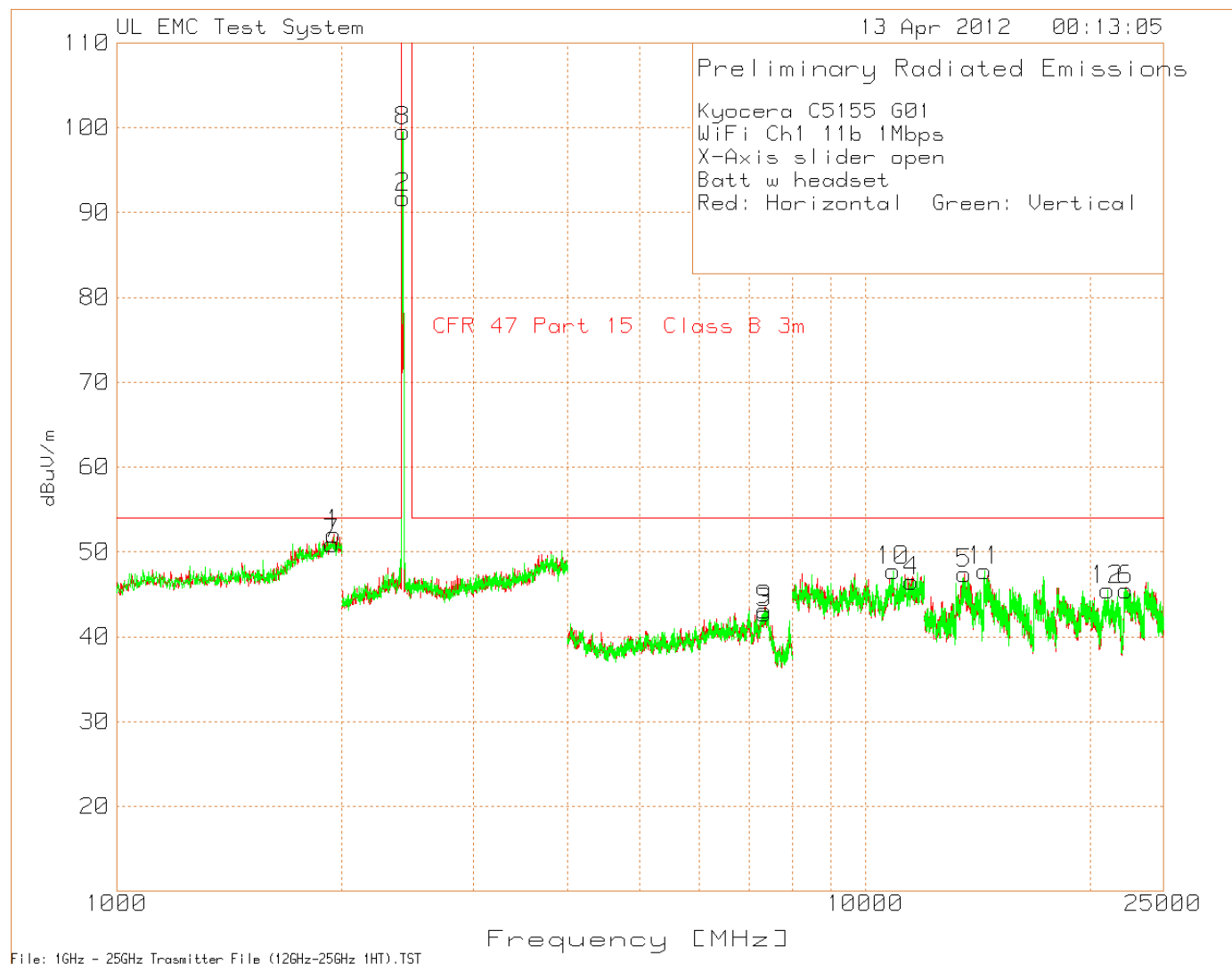


Table 6 Radiated Emissions Data Points X-Axis

Kyocera C5155 G01 WiFi Ch1 11b 1Mbps X-Axis slider open Batt w headset RED: Horizontal GRN: Vertical									
Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain dB	Level dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
1953.908	20.87	PK	27.4	3.79	52.06	54	-1.94	100	Horz
2412.412	66.05	PK	21.8	3.87	91.72	-	-	99	Horz
7343.562	58.59	PK	30.8	-46.65	42.74	54	-11.26	100	Horz
11541.03	56.37	PK	37.2	-47.06	46.51	54	-7.49	99	Horz
13570.23	48.23	PK	39.8	-40.58	47.45	54	-6.55	99	Horz
22268.91	57.63	PK	40.5	-52.64	45.49	54	-8.51	99	Horz
1939.88	19.64	PK	27.4	3.94	50.98	54	-3.02	101	Vert
2412.412	73.9	PK	21.8	3.87	99.57	-	-	150	Vert
7332.889	58.7	PK	30.7	-46.31	43.09	54	-10.91	150	Vert
10895.26	58.79	PK	36.3	-47.37	47.72	54	-6.28	101	Vert
14444.18	47.51	PK	39.8	-39.55	47.76	54	-6.24	102	Vert
21056.02	60.8	PK	40.1	-55.38	45.52	54	-8.48	100	Vert
PK - Peak detector									

Figure 7 Radiated Emissions Graph Y-Axis

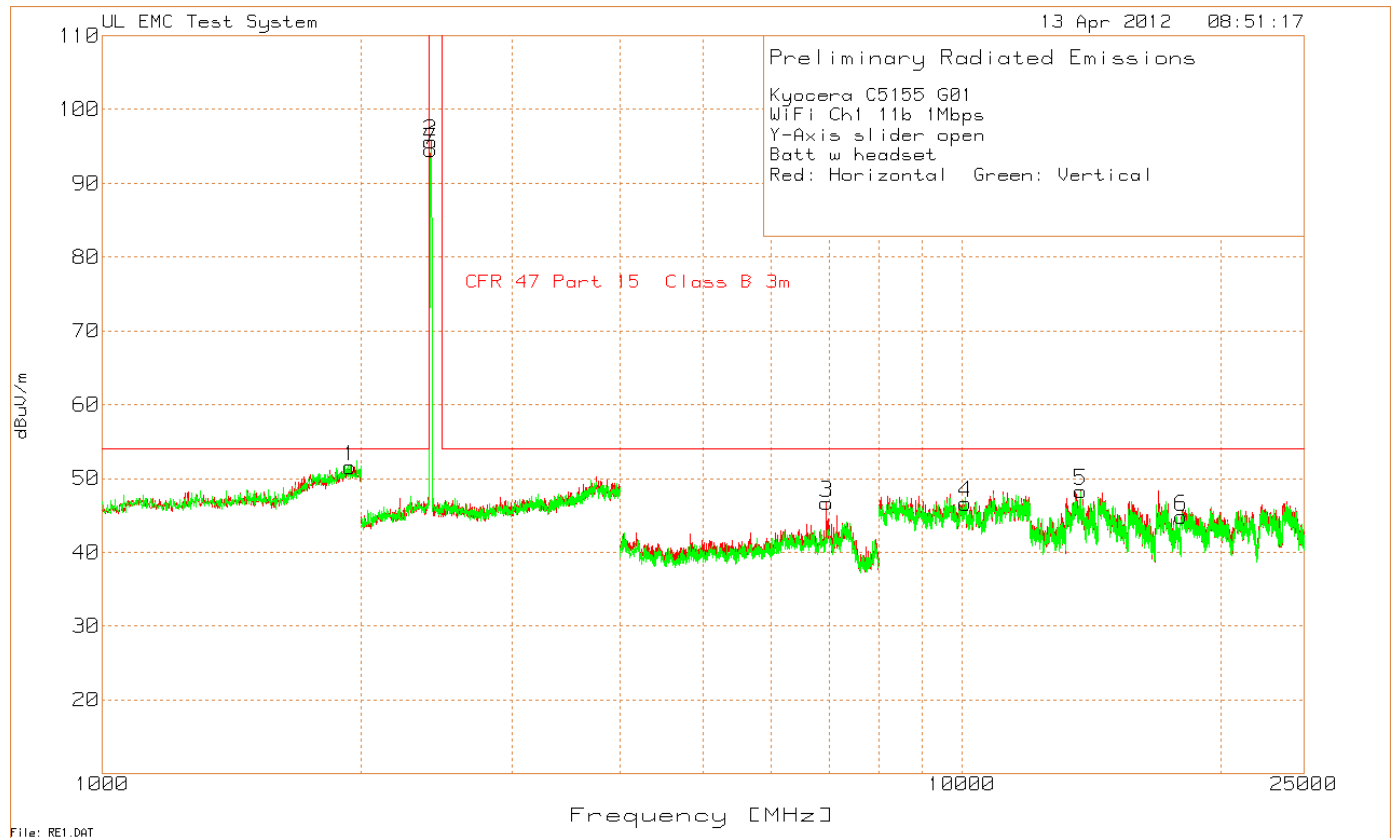


Table 7 Radiated Emissions Data Points Y-Axis

Kyocera C5155 G01 WiFi Ch1 11b 1Mbps Y-Axis slider open Batt w headset RED: Horizontal GRN: Vertical									
Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain dB	Level dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
1941.884	20.27	PK	27.4	3.92	51.59	54	-2.41	100	Horz
2410.41	69.92	PK	21.8	3.95	95.67	-	-	100	Horz
6959.306	64.03	PK	29.2	-46.56	46.67	54	-7.33	100	Horz
10100.07	59.41	PK	36.3	-49.05	46.66	54	-7.34	150	Horz
13750.3	48.54	PK	39.9	-40.16	48.28	54	-5.72	100	Horz
18000	66.2	PK	40	-61.35	44.85	54	-9.15	100	Horz
2410.41	68.79	PK	21.8	3.95	94.54	-	-	100	Vert
PK - Peak detector									

Figure 8 Radiated Emissions Graph Z-Axis

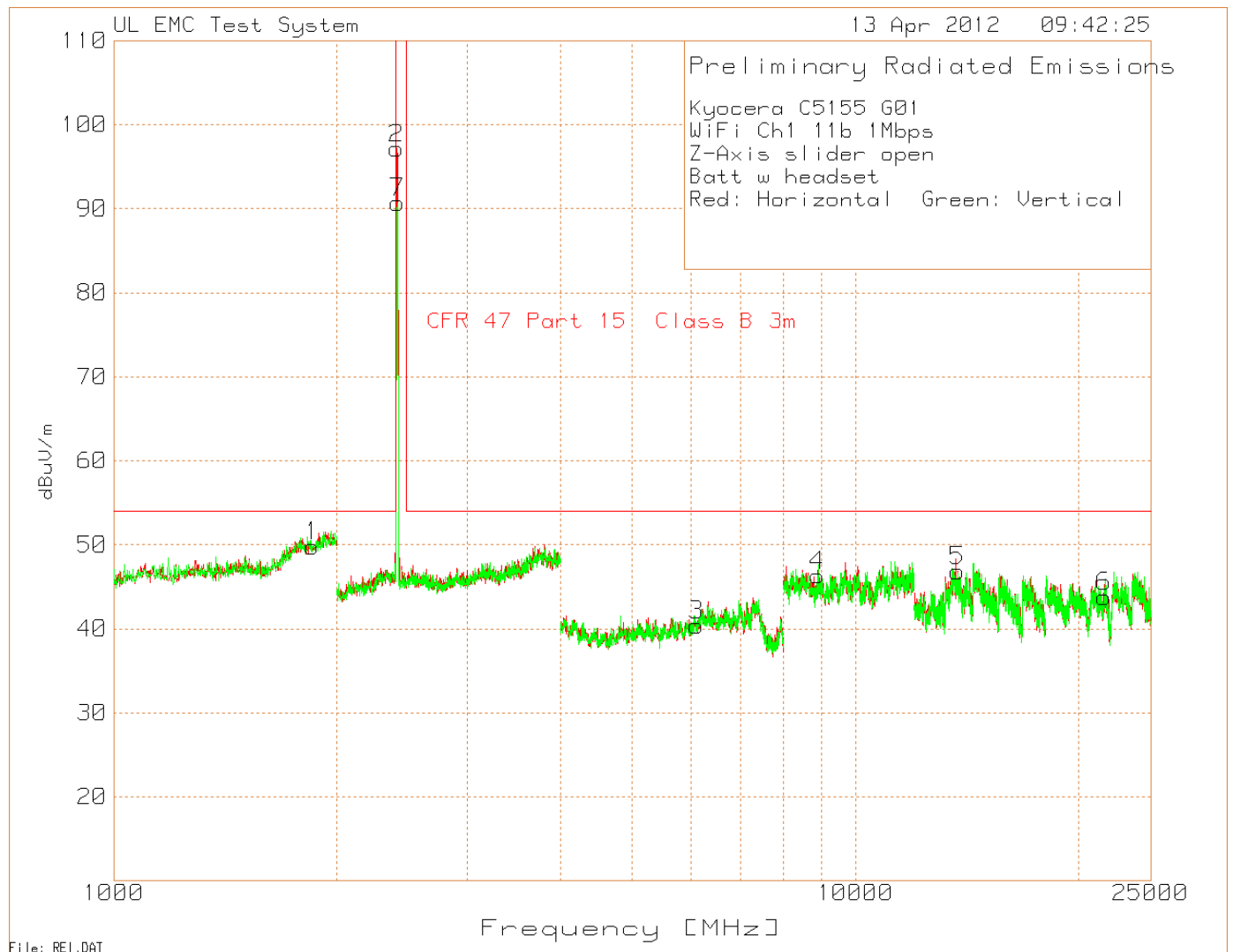


Table 8 Radiated Emissions Data Points Z-Axis

Kyocera C5155 G01 WiFi Ch1 11b 1Mbps Z-Axis slider open Batt w headset RED: Horizontal GRN: Vertical									
Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain dB	Level dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
1853.707	18.75	PK	27.2	3.83	49.78	54	-4.22	101	Horz
2410.41	71.38	PK	21.8	3.95	97.13	-	-	100	Horz
6116.077	60.79	PK	29	-49.35	40.44	54	-13.56	100	Horz
8899.266	60.39	PK	36.1	-50.14	46.35	54	-7.65	100	Horz
13728.69	46.7	PK	39.8	-39.67	46.83	54	-7.17	99	Horz
21655.46	57.82	PK	40.4	-54.4	43.82	54	-10.18	99	Horz
2412.412	65.06	PK	21.8	3.87	90.73	-	-	100	Vert
PK - Peak detector									

4.2.2 Spurious, 802.11b, 1Mbps, Middle Channel, 1GHz – 25GHz

Figure 9 Radiated Emissions Graph X-Axis

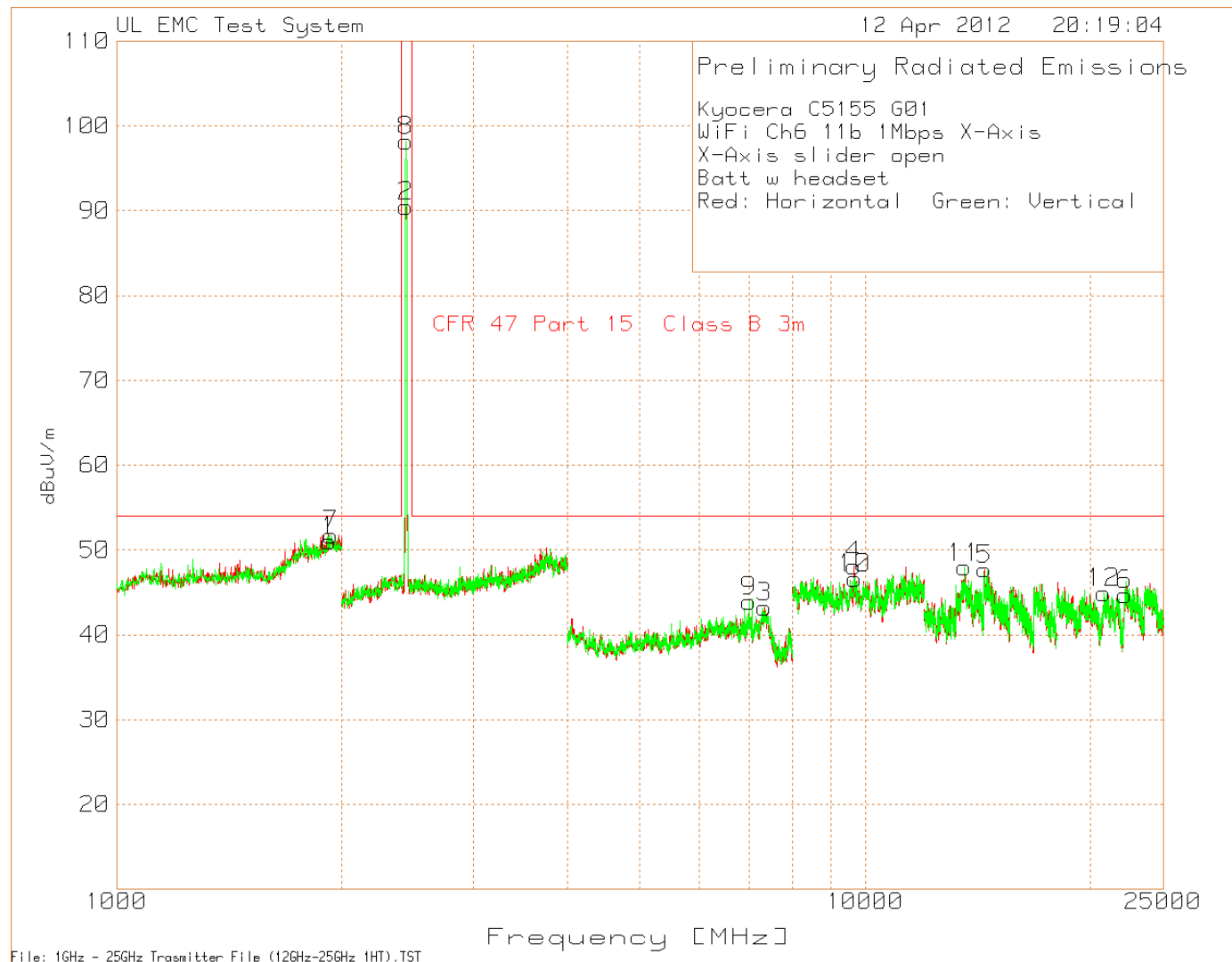


Table 9 Radiated Emissions Data Points X-Axis

Kyocera C5155 G01 WiFi Ch6 11b 1Mbps X-Axis X-Axis slider open Batt w headset RED: Horizontal GRN: Vertical									
Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain dB	Level dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
1925.852	19.79	PK	27.4	3.91	51.1	54	-2.9	150	Horz
2438.438	64.44	PK	21.9	4.18	90.52	-	-	100	Horz
7332.889	58.8	PK	30.7	-46.31	43.19	54	-10.81	150	Horz
9673.115	60.43	PK	36.4	-48.67	48.16	54	-5.84	100	Horz
14436.98	47.58	PK	39.8	-39.67	47.71	54	-6.29	100	Horz
22260.5	56.91	PK	40.5	-52.72	44.69	54	-9.31	100	Horz
1933.868	20.34	PK	27.4	3.97	51.71	54	-2.29	150	Vert
2436.436	72.22	PK	21.9	4.1	98.22	-	-	100	Vert
6999.333	59.77	PK	29.3	-45.19	43.88	54	-10.12	100	Vert
9678.452	58.72	PK	36.4	-48.49	46.63	54	-7.37	150	Vert
13565.43	48.79	PK	39.8	-40.65	47.94	54	-6.06	101	Vert
20806.72	61.27	PK	40.2	-56.5	44.97	54	-9.03	101	Vert
PK - Peak detector									

4.2.3 Spurious, 802.11g, 6Mbps, Middle Channel, 1GHz – 25GHz

Figure 10 Radiated Emissions Graph X-Axis

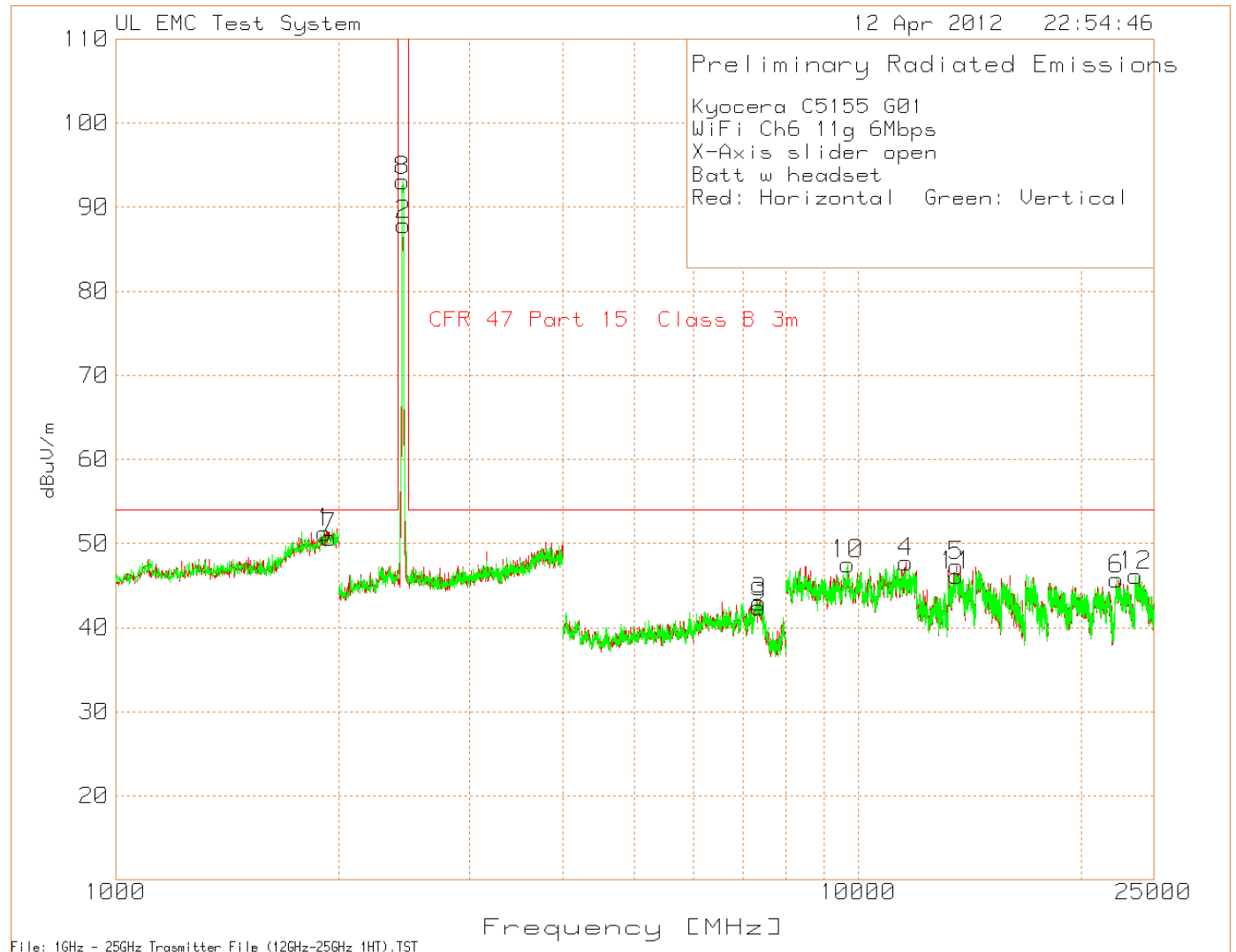


Table 10 Radiated Emissions Data Points X-Axis

Kyocera C5155 G01 WiFi Ch6 11g 6Mbps X-Axis slider open Batt w headset RED: Horizontal GRN: Vertical									
Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain dB	Level dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
1913.828	20.11	PK	27.4	3.75	51.26	54	-2.74	150	Horz
2440.44	61.7	PK	21.9	4.25	87.85	-	-	100	Horz
7362.241	58.52	PK	30.9	-46.46	42.96	54	-11.04	100	Horz
11615.74	57.26	PK	37.4	-46.9	47.76	54	-6.24	150	Horz
13563.03	48.2	PK	39.8	-40.7	47.3	54	-6.7	99	Horz
22285.71	57.74	PK	40.5	-52.53	45.71	54	-8.29	99	Horz
1941.884	19.42	PK	27.4	3.92	50.74	54	-3.26	101	Vert
2438.438	67.04	PK	21.9	4.18	93.12	-	-	150	Vert
7359.573	57.97	PK	30.9	-46.41	42.46	54	-11.54	150	Vert
9681.121	59.58	PK	36.4	-48.44	47.54	54	-6.46	100	Vert
13565.43	46.99	PK	39.8	-40.65	46.14	54	-7.86	100	Vert
23647.06	58.53	PK	40.3	-52.65	46.18	54	-7.82	100	Vert
PK - Peak detector									

4.2.4 Spurious, 802.11n, MCS0, Middle Channel, 1GHz – 25GHz

Figure 11 Radiated Emissions Graph X-Axis

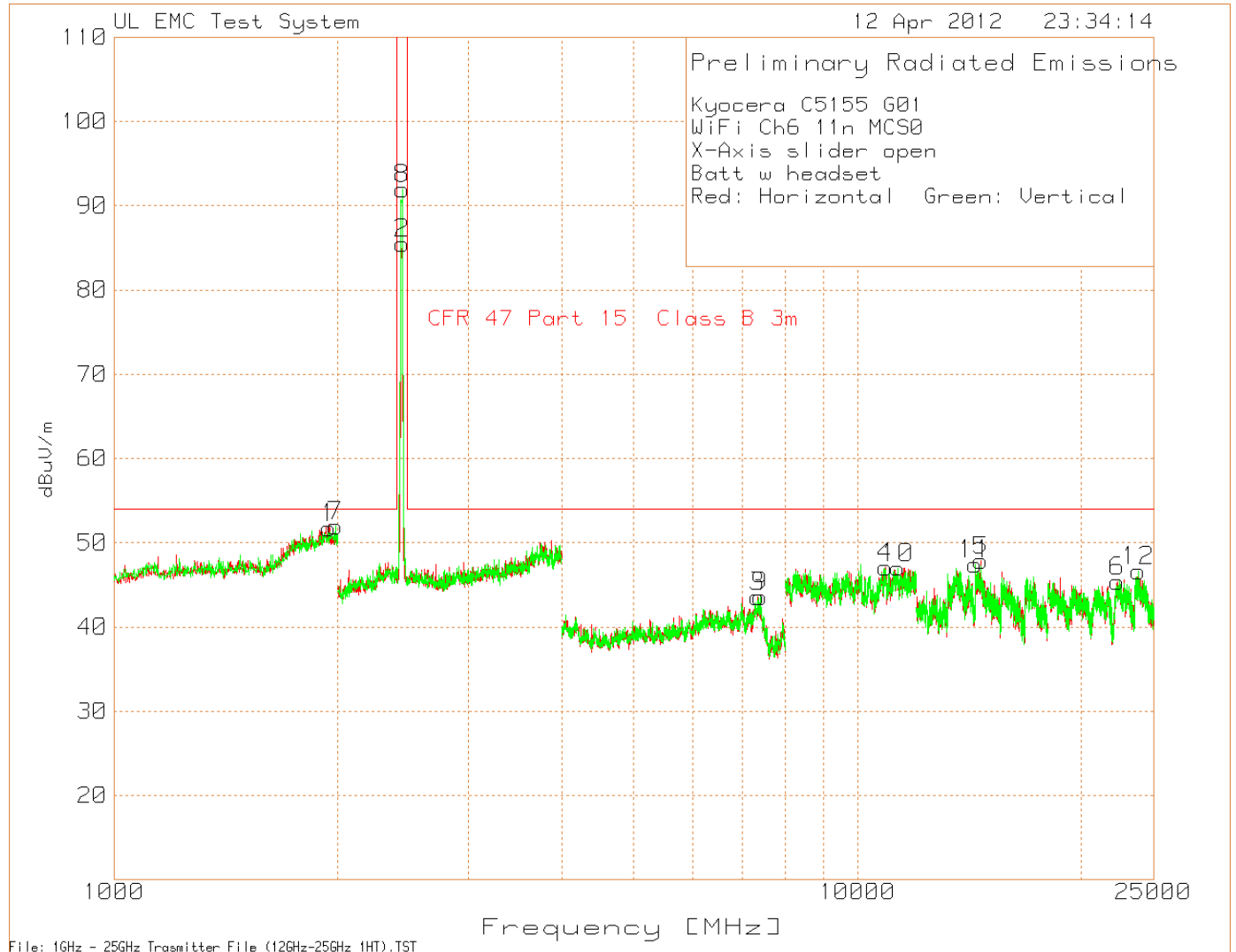


Table 11 Radiated Emissions Data Points X-Axis

Kyocera C5155 G01 WiFi Ch6 11n MCS0 X-Axis slider open Batt w headset RED: Horizontal GRN: Vertical									
Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain dB	Level dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
1945.892	20.46	PK	27.4	3.88	51.74	54	-2.26	150	Horz
2440.44	59.36	PK	21.9	4.25	85.51	-	-	100	Horz
7332.889	59.2	PK	30.7	-46.31	43.59	54	-10.41	99	Horz
10900.6	58.11	PK	36.3	-47.34	47.07	54	-6.93	99	Horz
14662.67	46.43	PK	39.8	-38.4	47.83	54	-6.17	99	Horz
22341.74	57.56	PK	40.5	-52.64	45.42	54	-8.58	99	Horz
1985.972	20.38	PK	27.5	4.07	51.95	54	-2.05	102	Vert
2442.442	65.76	PK	21.9	4.33	91.99	-	-	100	Vert
7407.605	59.3	PK	31.1	-46.82	43.58	54	-10.42	102	Vert
11324.88	57.84	PK	36.9	-47.71	47.03	54	-6.97	150	Vert
14408.16	46.86	PK	39.8	-39.28	47.38	54	-6.62	100	Vert
23851.54	60.33	PK	40.3	-53.95	46.68	54	-7.32	100	Vert
PK - Peak detector									

UL EMC Test System 12 Apr 2012 21:12:44

Preliminary Radiated Emissions

Kyocera C5155 G01
 WiFi Ch6 11b 1Mbps
 Y-Axis slider open
 Batt w headset
 Red: Horizontal Green: Vertical

CFR 47 Part 15 Class B 3m

dBuV/m

Frequency [MHz]

File: 16Hz - 25GHz Transmitter File (126Hz-256Hz 1HT).TST

Table 12 Radiated Emissions Data Points Y-Axis

Kyocera C5155 G01 WiFi Ch6 11b 1Mbps Y-Axis slider open Batt w headset RED: Horizontal GRN: Vertical									
Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain dB	Level dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
1977.956	20.8	PK	27.5	3.91	52.21	54	-1.79	150	Horz
2434.434	69.15	PK	21.9	4.02	95.07	-	-	99	Horz
7311.541	58.54	PK	30.5	-46.35	42.69	54	-11.31	150	Horz
4872.582	64.66	PK	27.7	-51.18	41.18	54	-12.82	99	Horz
8184.123	60.26	PK	36.3	-48.98	47.58	54	-6.42	150	Horz
13536.62	48.67	PK	39.8	-41.35	47.12	54	-6.88	100	Horz
20809.52	61.49	PK	40.2	-56.51	45.18	54	-8.82	100	Horz
1941.884	20.25	PK	27.4	3.92	51.57	54	-2.43	100	Vert
2436.436	67.81	PK	21.9	4.1	93.81	-	-	101	Vert
7332.889	59.28	PK	30.7	-46.31	43.67	54	-10.33	100	Vert
9523.682	61.63	PK	36.4	-50.92	47.11	54	-6.89	150	Vert
13440.58	48.9	PK	39.8	-41.55	47.15	54	-6.85	100	Vert
23677.87	59.11	PK	40.3	-52.68	46.73	54	-7.27	100	Vert
PK - Peak detector									

Figure 13 Radiated Emissions Graph Z-Axis

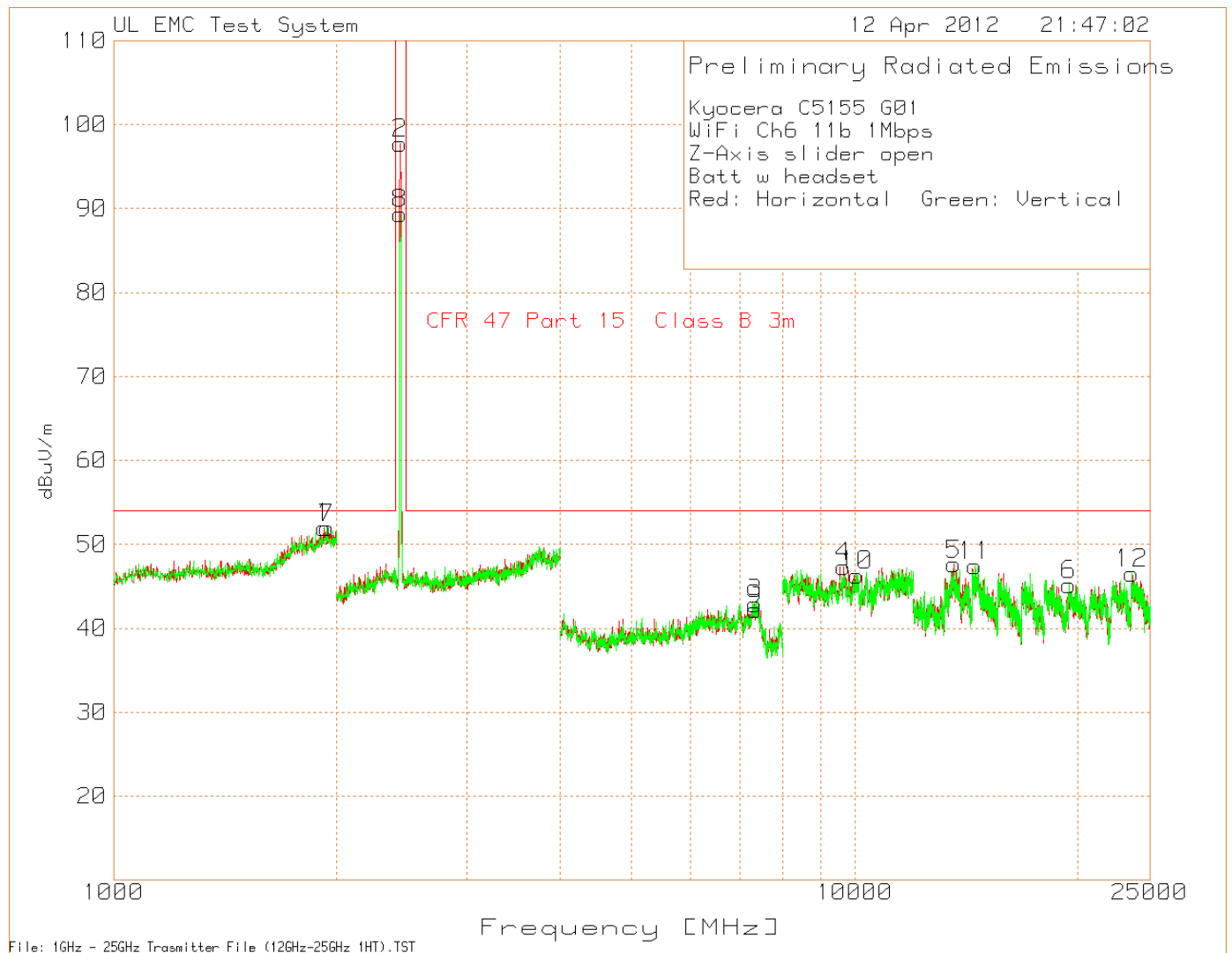


Table 13 Radiated Emissions Data Points Z-Axis

Kyocera C5155 G01 WiFi Ch6 11b 1Mbps Z-Axis slider open Batt w headset RED: Horizontal GRN: Vertical									
Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain dB	Level dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
1925.852	20.61	PK	27.4	3.91	51.92	54	-2.08	150	Horz
2436.436	71.71	PK	21.9	4.1	97.71	-	-	100	Horz
7340.894	58.72	PK	30.8	-46.59	42.93	54	-11.07	150	Horz
9654.436	60.29	PK	36.4	-49.35	47.34	54	-6.66	99	Horz
13596.64	48.94	PK	39.8	-41.14	47.6	54	-6.4	100	Horz
19439.78	65.8	PK	40.3	-60.92	45.18	54	-8.82	100	Horz
1937.876	20.56	PK	27.4	3.95	51.91	54	-2.09	100	Vert
2436.436	63.35	PK	21.9	4.1	89.35	-	-	101	Vert
7338.225	58	PK	30.7	-46.49	42.21	54	-11.79	150	Vert
10078.72	58.84	PK	36.3	-48.86	46.28	54	-7.72	150	Vert
14506.6	46.84	PK	39.8	-39.18	47.46	54	-6.54	102	Vert
23683.47	59.06	PK	40.3	-52.8	46.56	54	-7.44	100	Vert
PK - Peak detector									

4.2.5 Spurious, 802.11b, 1Mbps, High Channel, 1GHz – 25GHz

Figure 14 Radiated Emissions Graph X-Axis

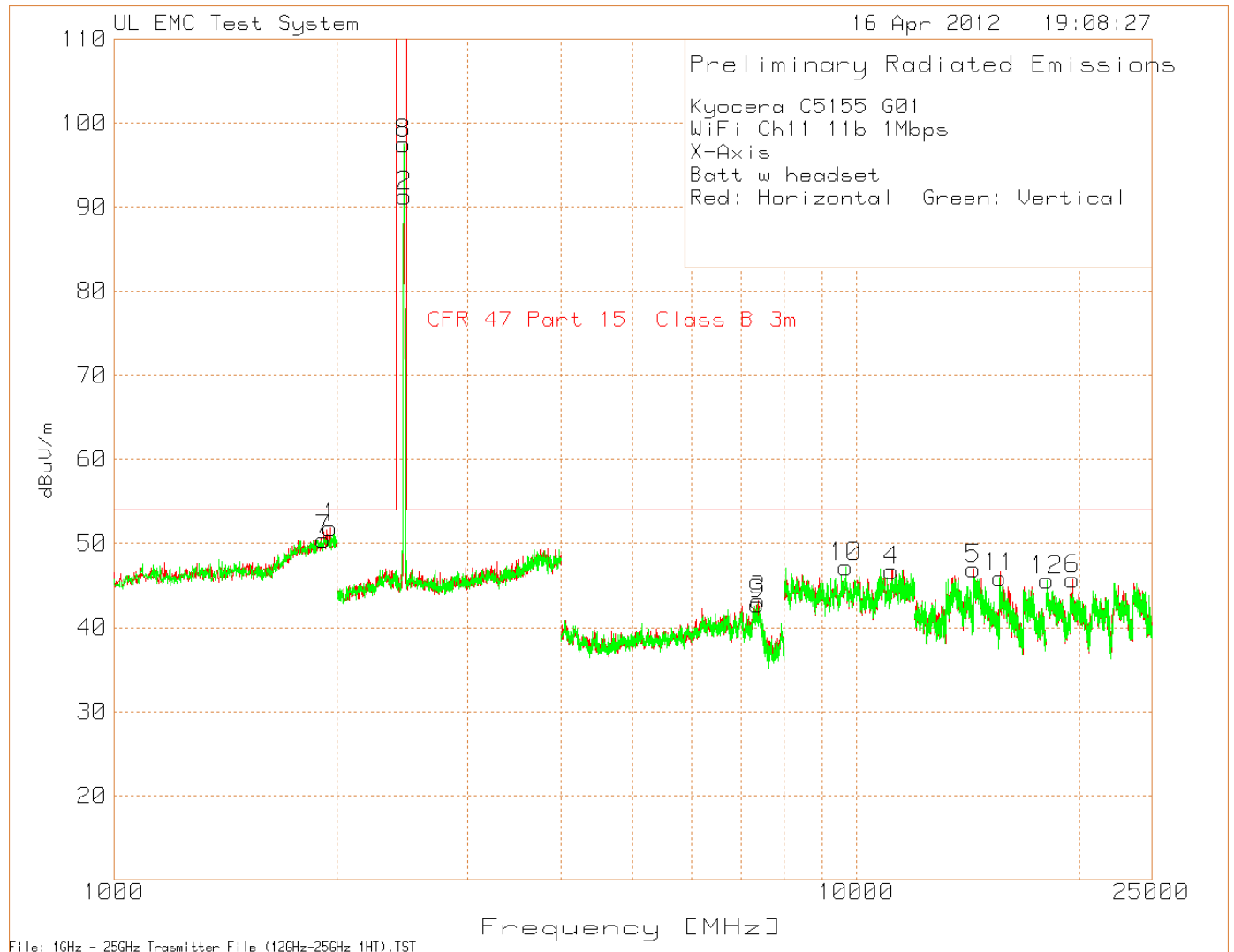


Table 14 Radiated Emissions Data Points X-Axis

Kyocera C5155 G01 WiFi Ch11 11b 1Mbps X-Axis Batt w headset RED: Horizontal GRN: Vertical									
Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain dB	Level dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
1959.92	20.65	PK	27.4	3.75	51.8	54	-2.2	100	Horz
2464.464	65.21	PK	22	4.04	91.25	-	-	99	Horz
7386.258	58.6	PK	31.1	-46.46	43.24	54	-10.76	150	Horz
11172.78	57	PK	36.6	-46.88	46.72	54	-7.28	150	Horz
14405.76	46.44	PK	39.8	-39.25	46.99	54	-7.01	100	Horz
19568.63	66.36	PK	40.3	-60.95	45.71	54	-8.29	100	Horz
1919.84	19.29	PK	27.4	3.83	50.52	54	-3.48	150	Vert
2460.46	71.37	PK	22	4.14	97.51	-	-	150	Vert
7362.241	58.37	PK	30.9	-46.46	42.81	54	-11.19	100	Vert
9681.121	59.24	PK	36.4	-48.44	47.2	54	-6.8	150	Vert
15615.85	45.76	PK	40.1	-39.95	45.91	54	-8.09	101	Vert
18092.44	66.38	PK	40	-60.77	45.61	54	-8.39	101	Vert
PK - Peak detector									

Figure 15 Radiated Emissions Graph Y-Axis

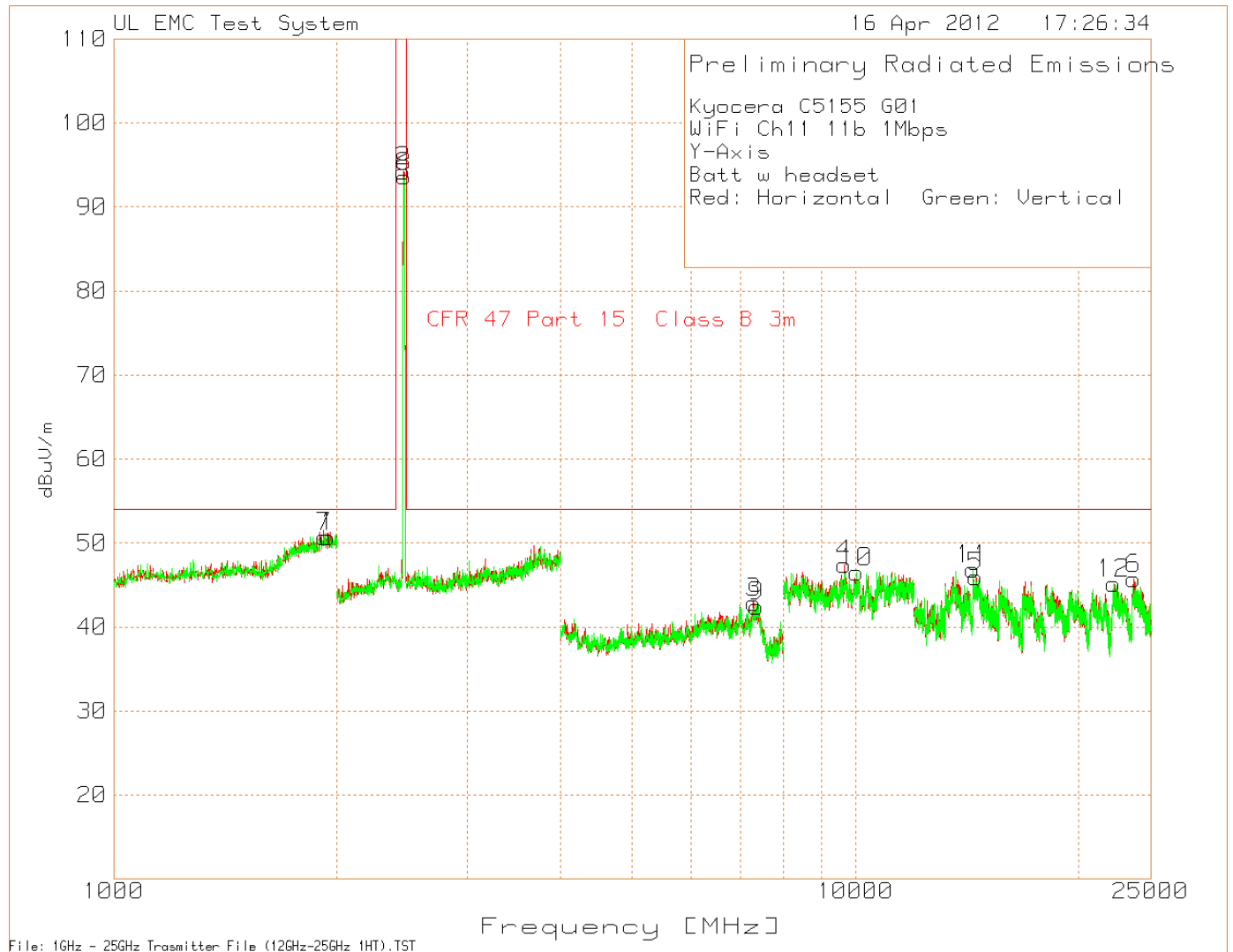


Table 15 Radiated Emissions Data Points Y-Axis

Kyocera C5155 G01 WiFi Ch11 11b 1Mbps Y-Axis Batt w headset RED: Horizontal GRN: Vertical									
Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain dB	Level dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
1943.888	19.45	PK	27.4	3.9	50.75	54	-3.25	100	Horz
2460.46	68.09	PK	22	4.14	94.23	-	-	99	Horz
7287.525	58.8	PK	30.4	-46.34	42.86	54	-11.14	100	Horz
9673.115	59.65	PK	36.4	-48.67	47.38	54	-6.62	150	Horz
14542.62	45.07	PK	39.8	-38.96	45.91	54	-8.09	99	Horz
23711.49	58.8	PK	40.3	-53.33	45.77	54	-8.23	99	Horz
1921.844	19.45	PK	27.4	3.86	50.71	54	-3.29	101	Vert
2462.462	67.52	PK	22	4.09	93.61	-	-	100	Vert
7364.91	58.05	PK	30.9	-46.49	42.46	54	-11.54	150	Vert
10041.36	58.83	PK	36.4	-48.74	46.49	54	-7.51	150	Vert
14405.76	46.28	PK	39.8	-39.25	46.83	54	-7.17	101	Vert
22288.52	57.19	PK	40.5	-52.57	45.12	54	-8.88	101	Vert
PK - Peak detector									

Figure 16 Radiated Emissions Graph Z-Axis

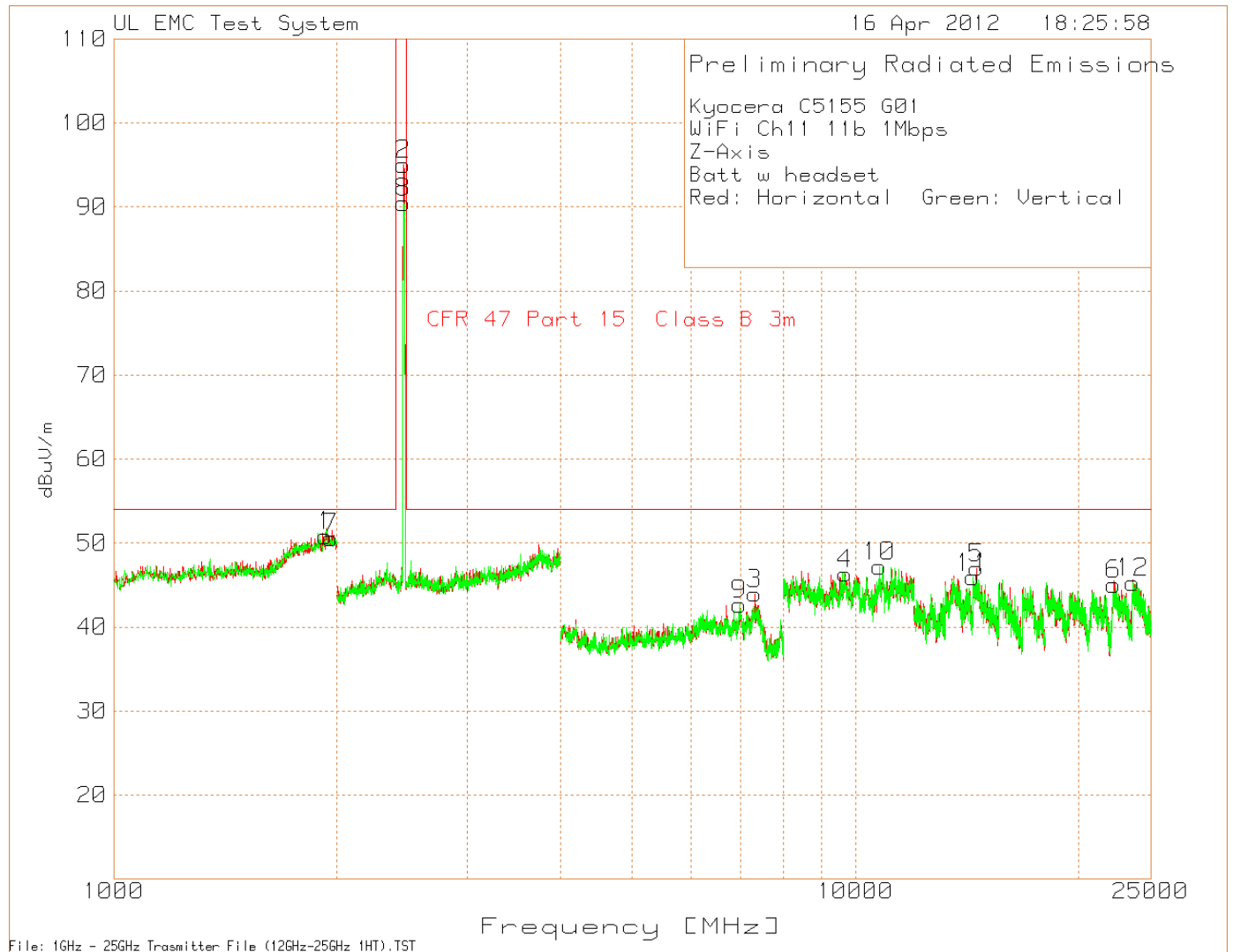
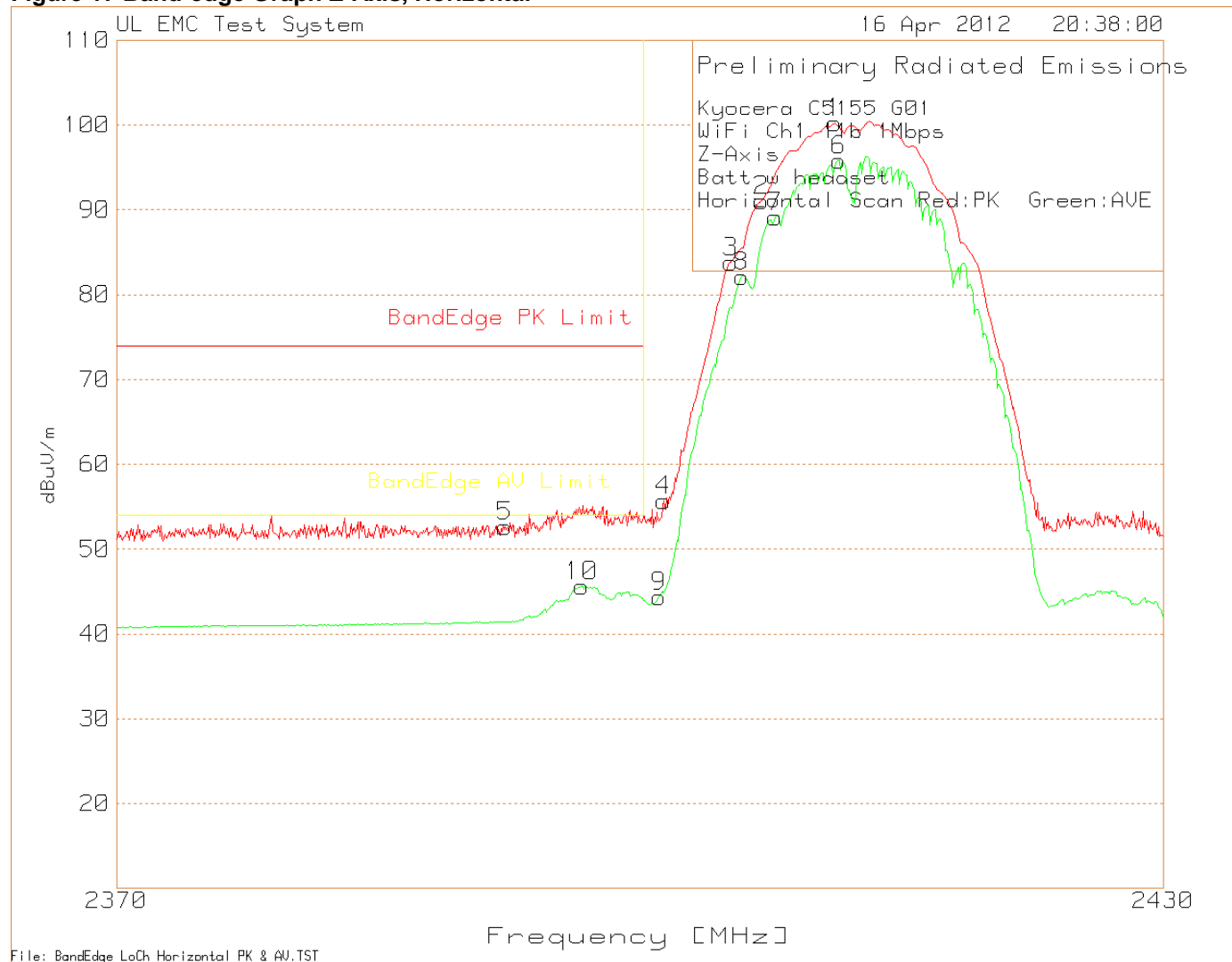


Table 16 Radiated Emissions Data Points Z-Axis

Kyocera C5155 G01 WiFi Ch11 11b 1Mbps Z-Axis Batt w headset RED: Horizontal GRN: Vertical									
Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain dB	Level dBuV/m	CFR 47 Part 15 Class B 3m	Margin	Height [cm]	Polarity
1929.86	19.47	PK	27.4	3.94	50.81	54	-3.19	150	Horz
2460.46	68.92	PK	22	4.14	95.06	-	-	100	Horz
7316.878	59.65	PK	30.6	-46.28	43.97	54	-10.03	150	Horz
9699.8	58.85	PK	36.4	-48.9	46.35	54	-7.65	150	Horz
14561.83	45.95	PK	39.8	-38.72	47.03	54	-6.97	99	Horz
22299.72	57.31	PK	40.5	-52.74	45.07	54	-8.93	99	Horz
1961.924	19.37	PK	27.5	3.74	50.61	54	-3.39	101	Vert
2460.46	64.33	PK	22	4.14	90.47	-	-	150	Vert
6980.654	59.31	PK	29.3	-45.97	42.64	54	-11.36	100	Vert
10767.18	58.95	PK	36.4	-48.15	47.2	54	-6.8	150	Vert
14400.96	45.31	PK	39.8	-39.21	45.9	54	-8.1	100	Vert
23675.07	57.63	PK	40.3	-52.66	45.27	54	-8.73	100	Vert
PK - Peak detector									

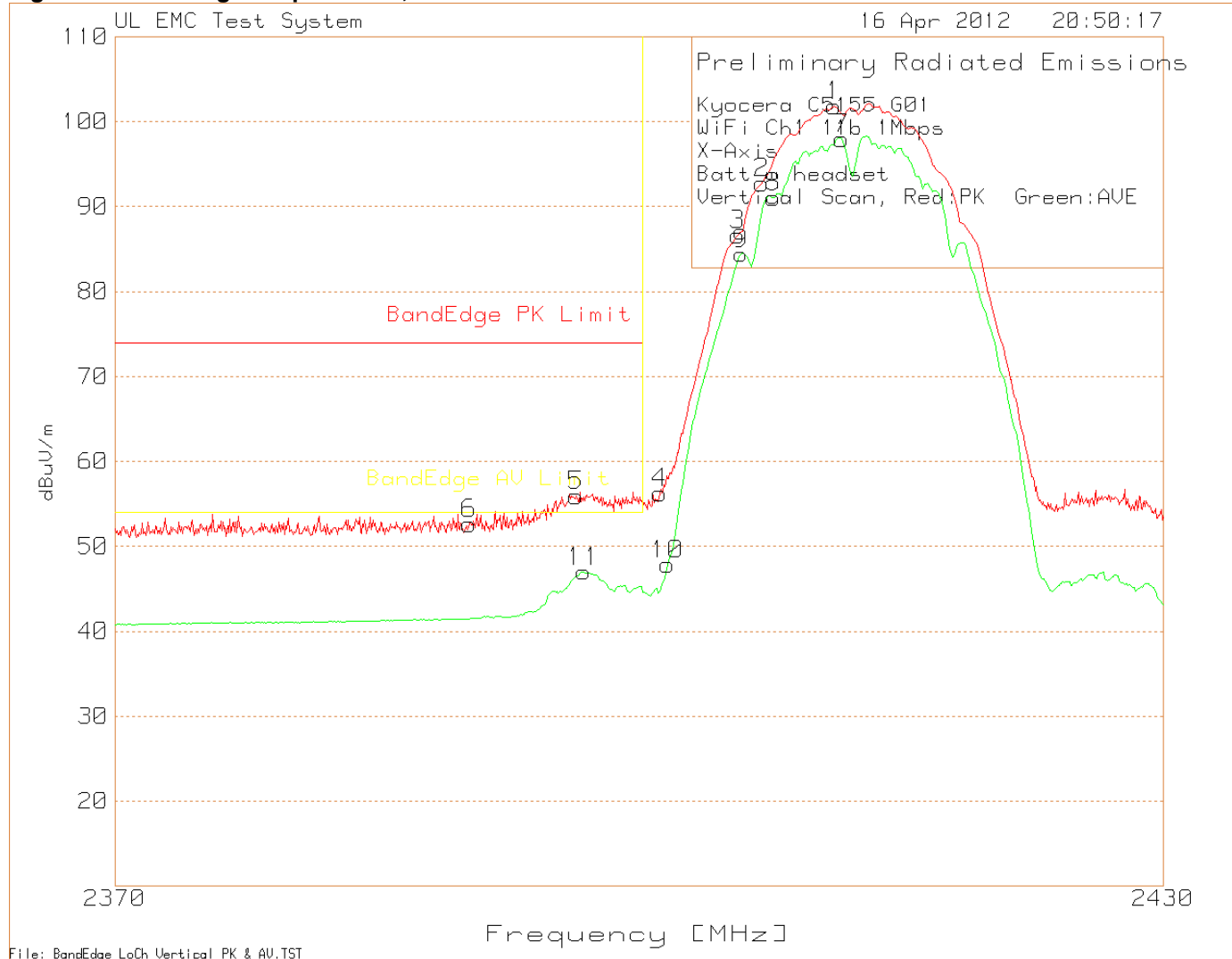
4.2.6 Band-edge, 802.11b, 1Mbps, Low Channel

Figure 17 Band-edge Graph Z-Axis, Horizontal



No Emissions were recorded in restricted band, see plot for data. Limit line stops at 2400MHz. Restricted Band ends 2390MHz

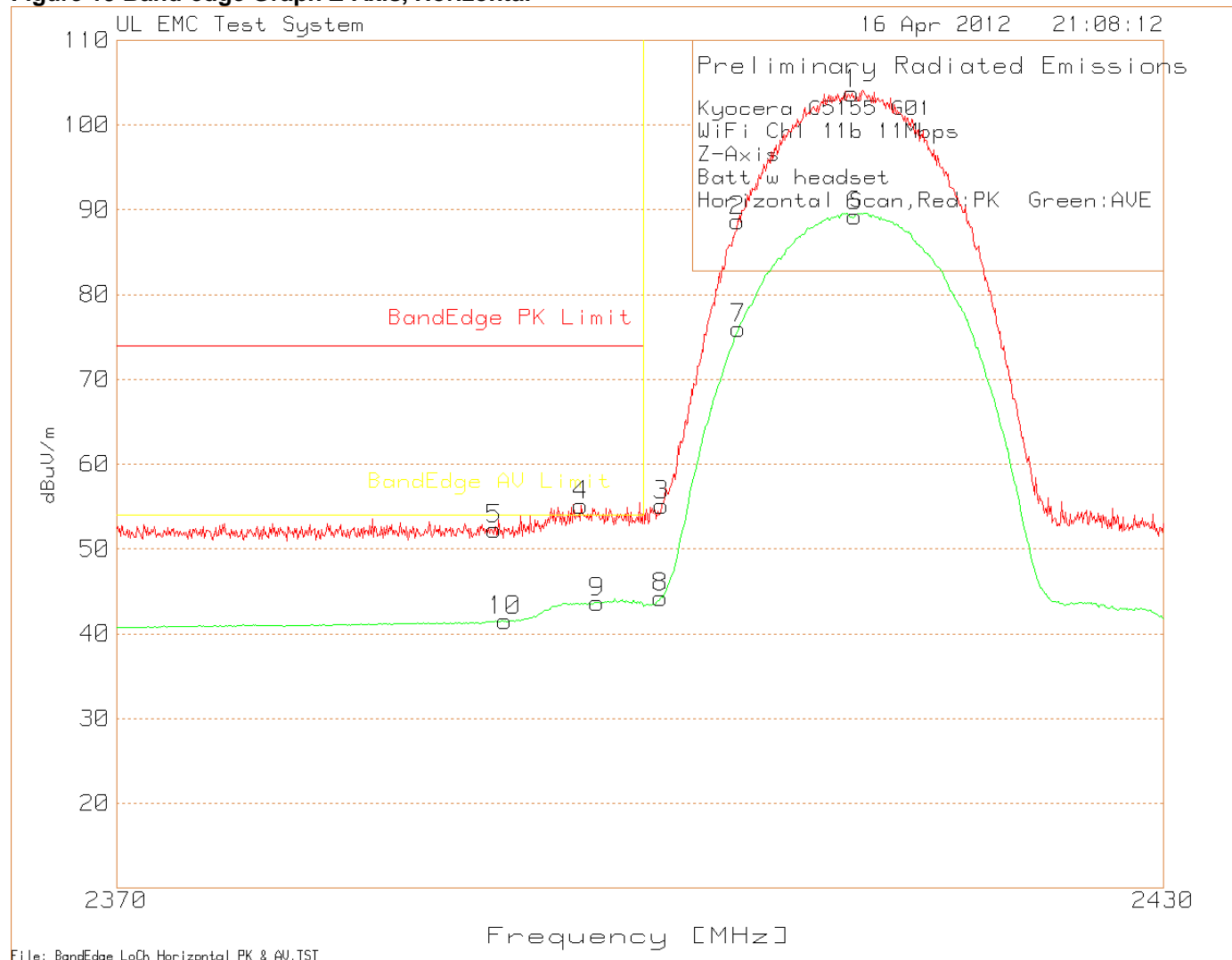
Figure 18 Band-edge Graph X-Axis, Vertical



No Emissions were recorded in restricted band, see plot for data. Limit line stops at 2400MHz. Restricted Band ends 2390MHz

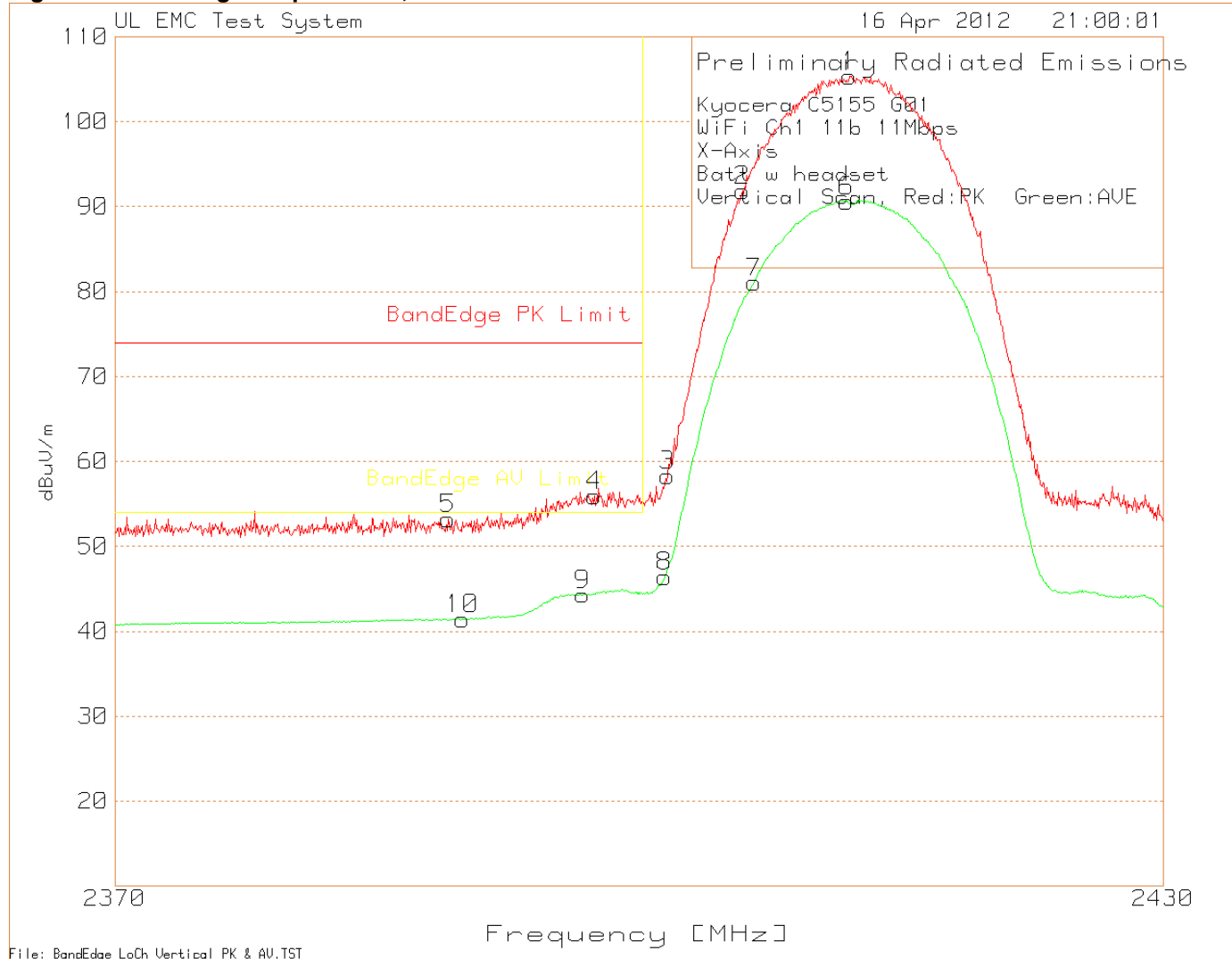
4.2.7 Band-edge, 802.11b, 11Mbps, Low Channel

Figure 19 Band-edge Graph Z-Axis, Horizontal



No Emissions were recorded in restricted band, see plot for data. Limit line stops at 2400MHz. Restricted Band ends 2390MHz

Figure 20 Band-edge Graph X-Axis, Vertical



No Emissions were recorded in restricted band, see plot for data. Limit line stops at 2400MHz. Restricted Band ends 2390MHz

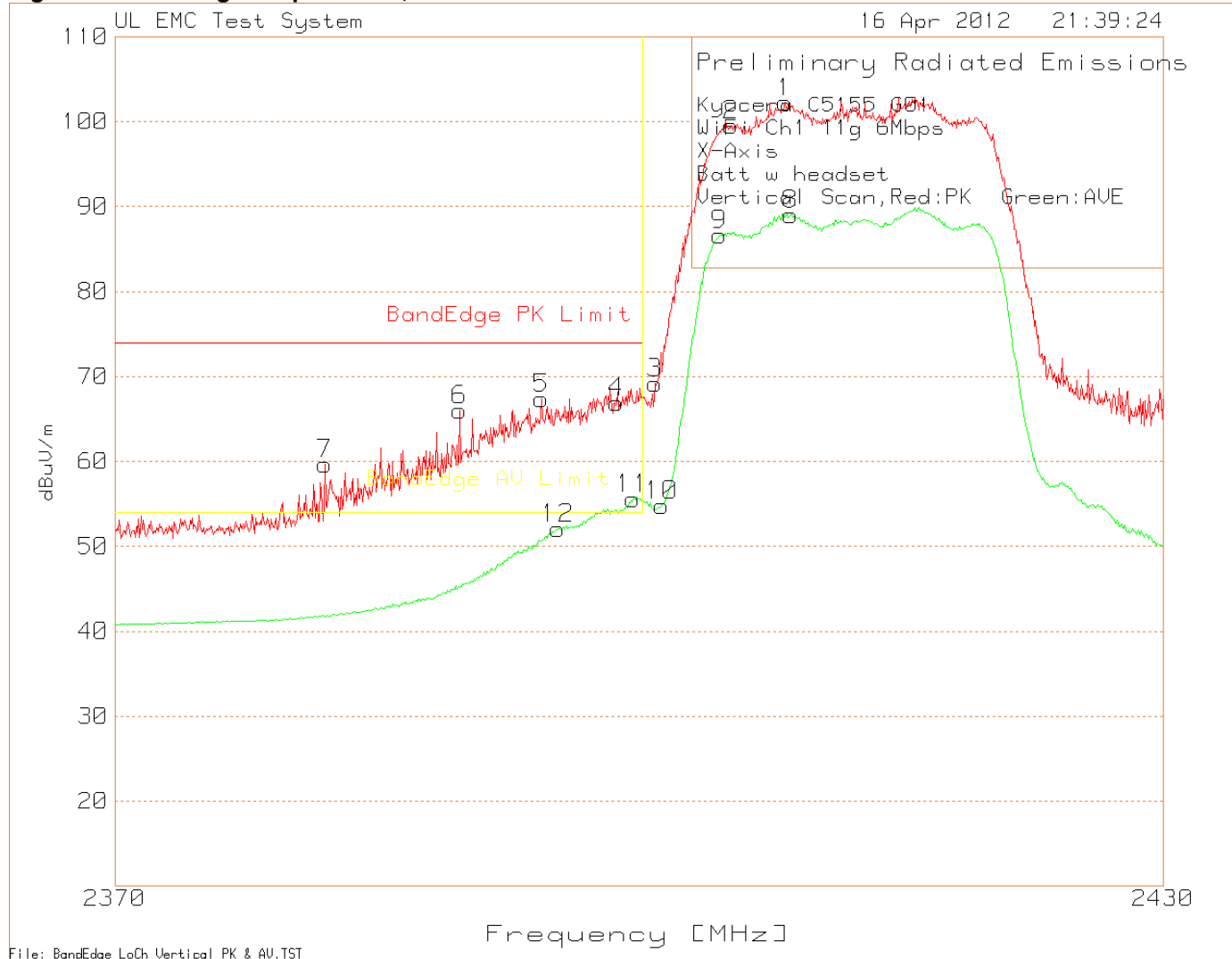
4.2.8 Band-edge, 802.11g, 6Mbps, Low Channel

Figure 21 Band-edge Graph Z-Axis, Horizontal



No Emissions were recorded in restricted band, see plot for data. Limit line stops at 2400MHz. Restricted Band ends 2390MHz

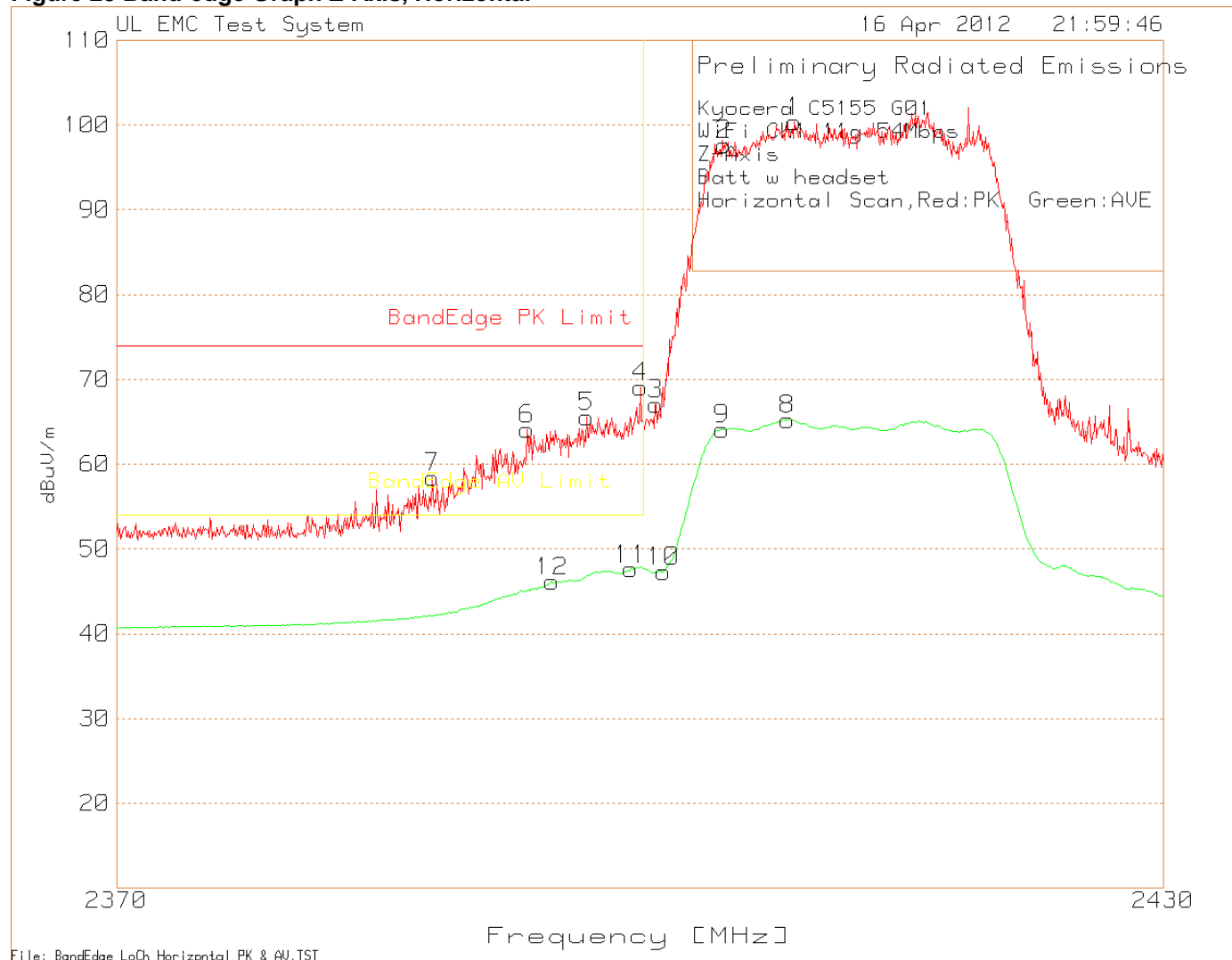
Figure 22 Band-edge Graph X-Axis, Vertical



No Emissions were recorded in restricted band, see plot for data. Limit line stops at 2400MHz. Restricted Band ends 2390MHz

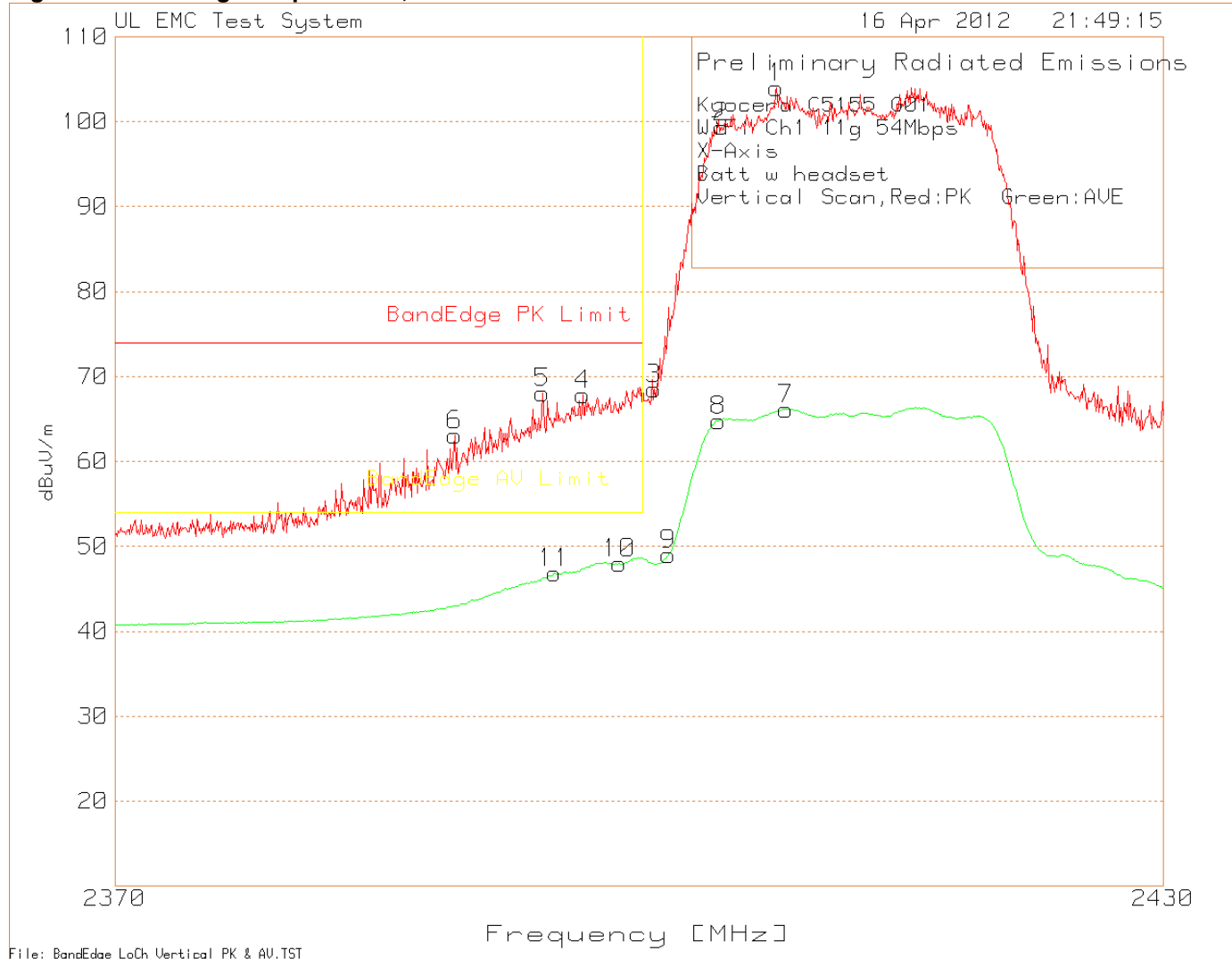
4.2.9 Band-edge, 802.11g, 54Mbps, Low Channel

Figure 23 Band-edge Graph Z-Axis, Horizontal



No Emissions were recorded in restricted band, see plot for data. Limit line stops at 2400MHz. Restricted Band ends 2390MHz

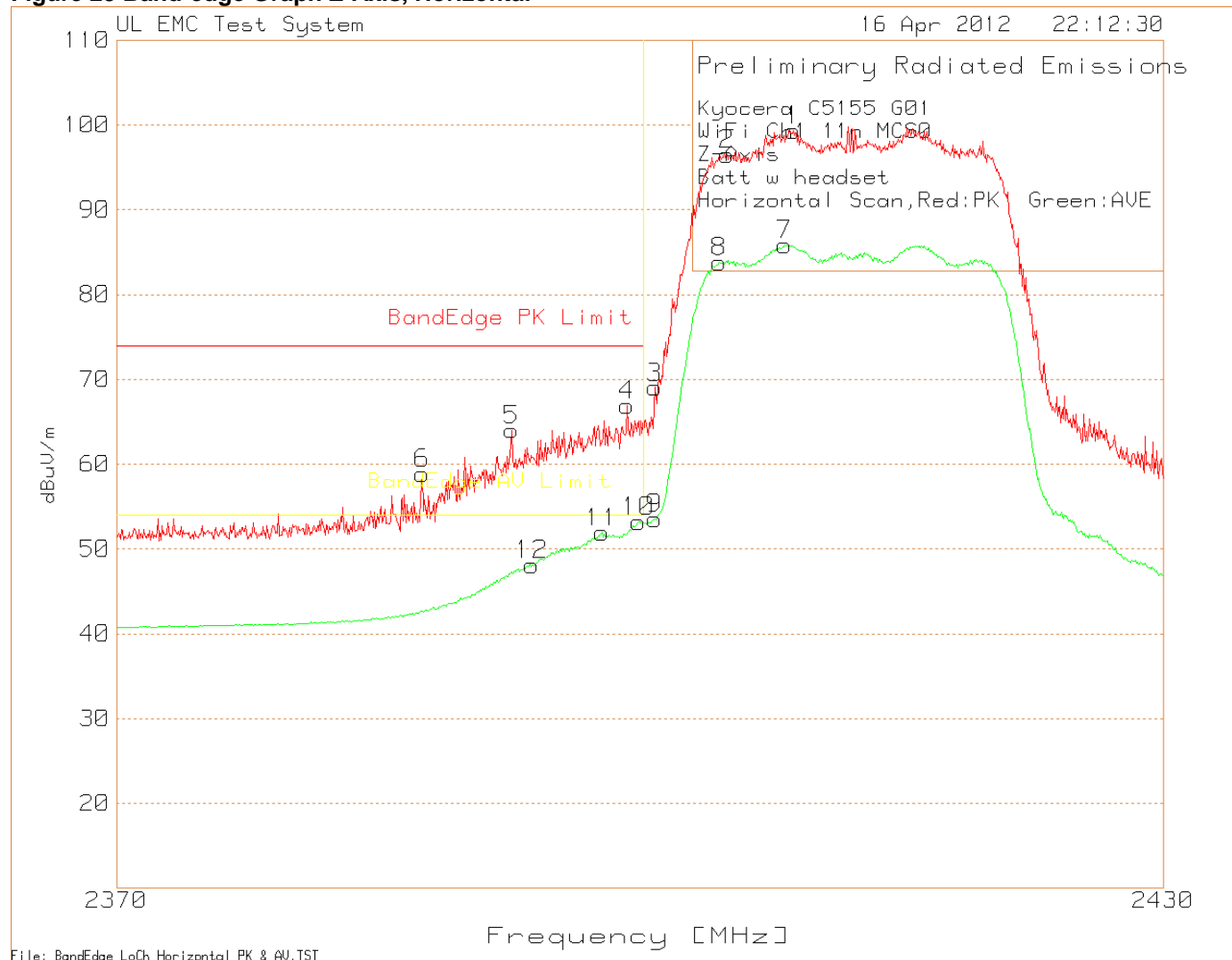
Figure 24 Band-edge Graph X-Axis, Vertical



No Emissions were recorded in restricted band, see plot for data. Limit line stops at 2400MHz. Restricted Band ends 2390MHz

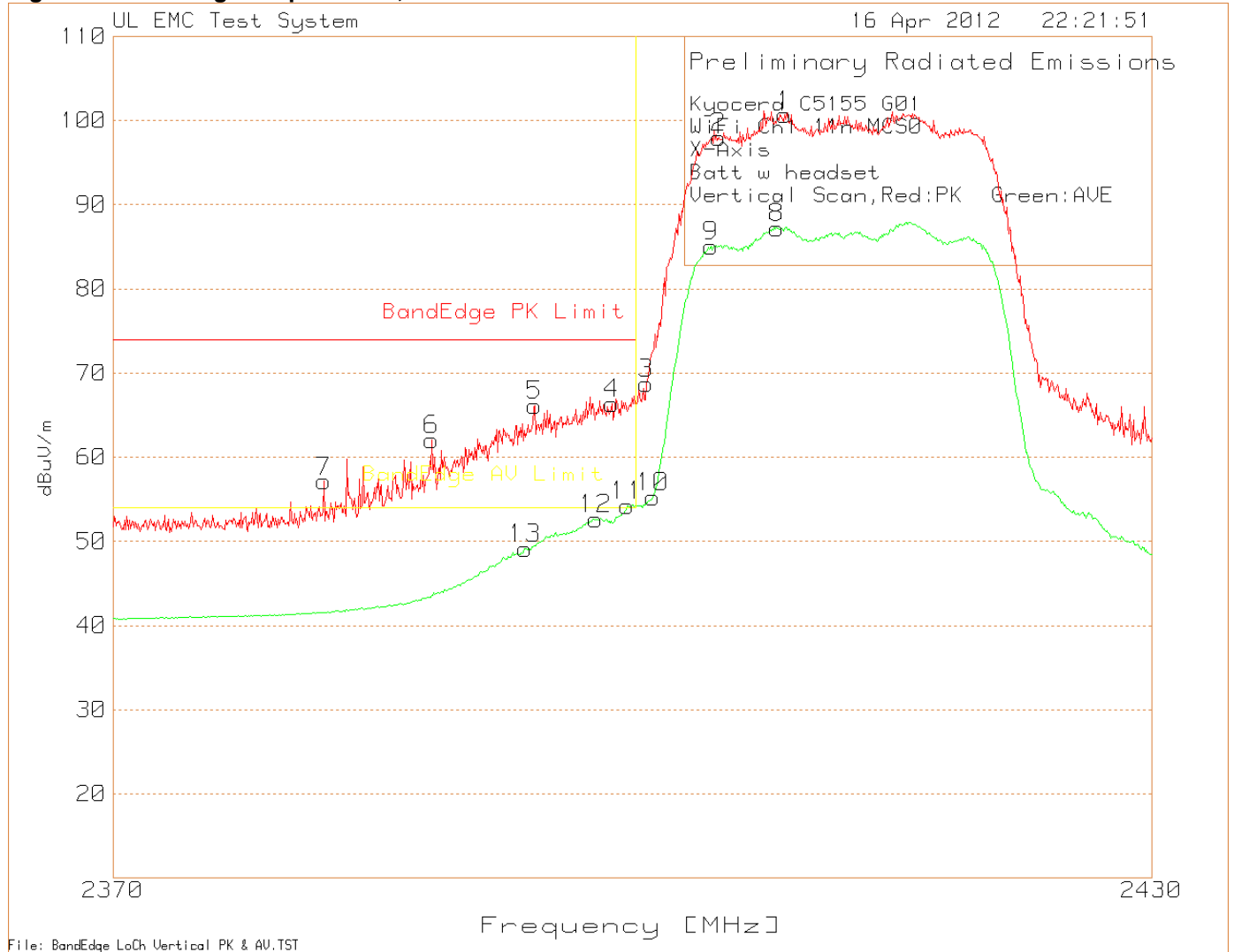
4.2.10 Band-edge, 802.11n, MCS0, Low Channel

Figure 25 Band-edge Graph Z-Axis, Horizontal



No Emissions were recorded in restricted band, see plot for data. Limit line stops at 2400MHz. Restricted Band ends 2390MHz

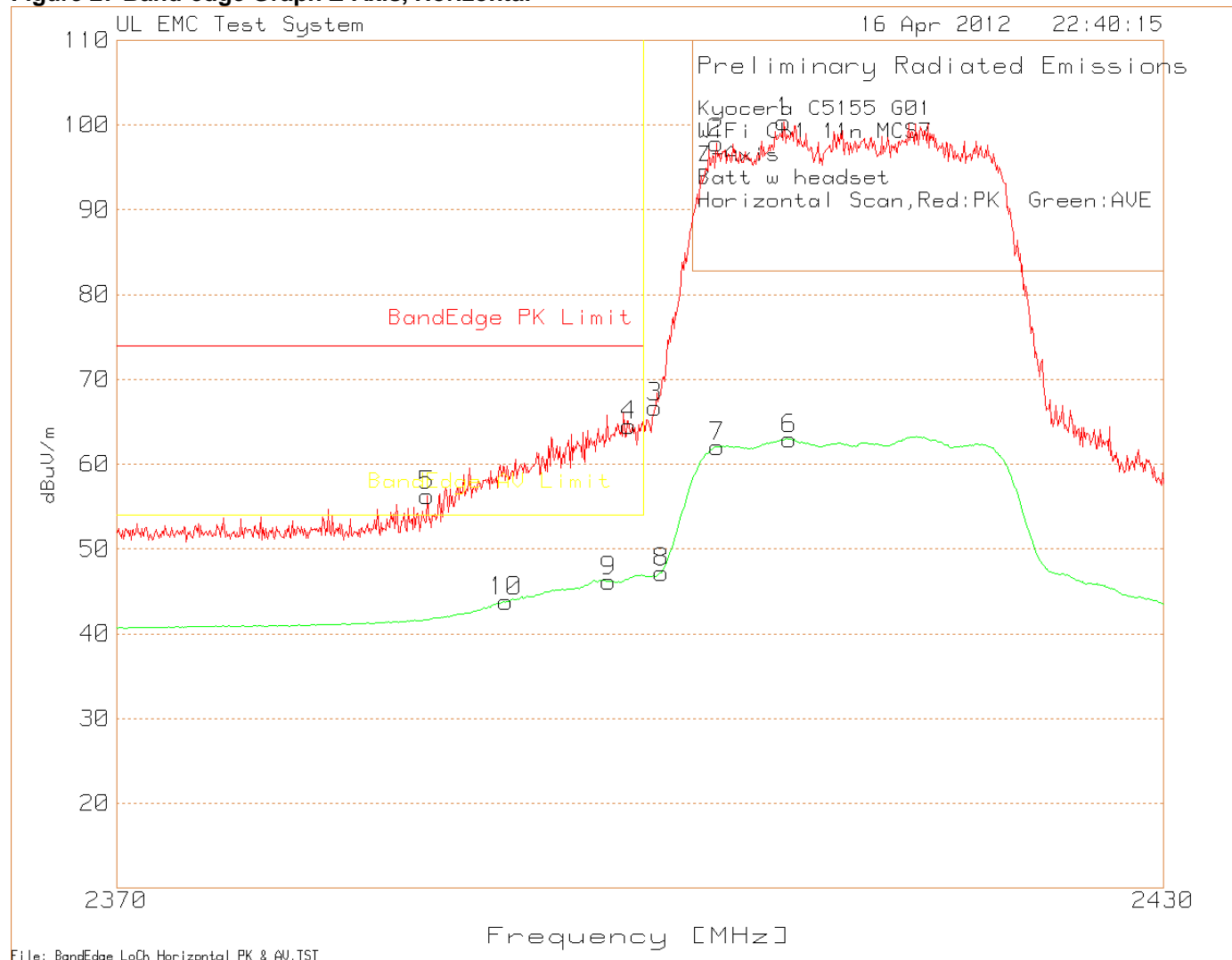
Figure 26 Band-edge Graph X-Axis, Vertical



No Emissions were recorded in restricted band, see plot for data. Limit line stops at 2400MHz. Restricted Band ends 2390MHz

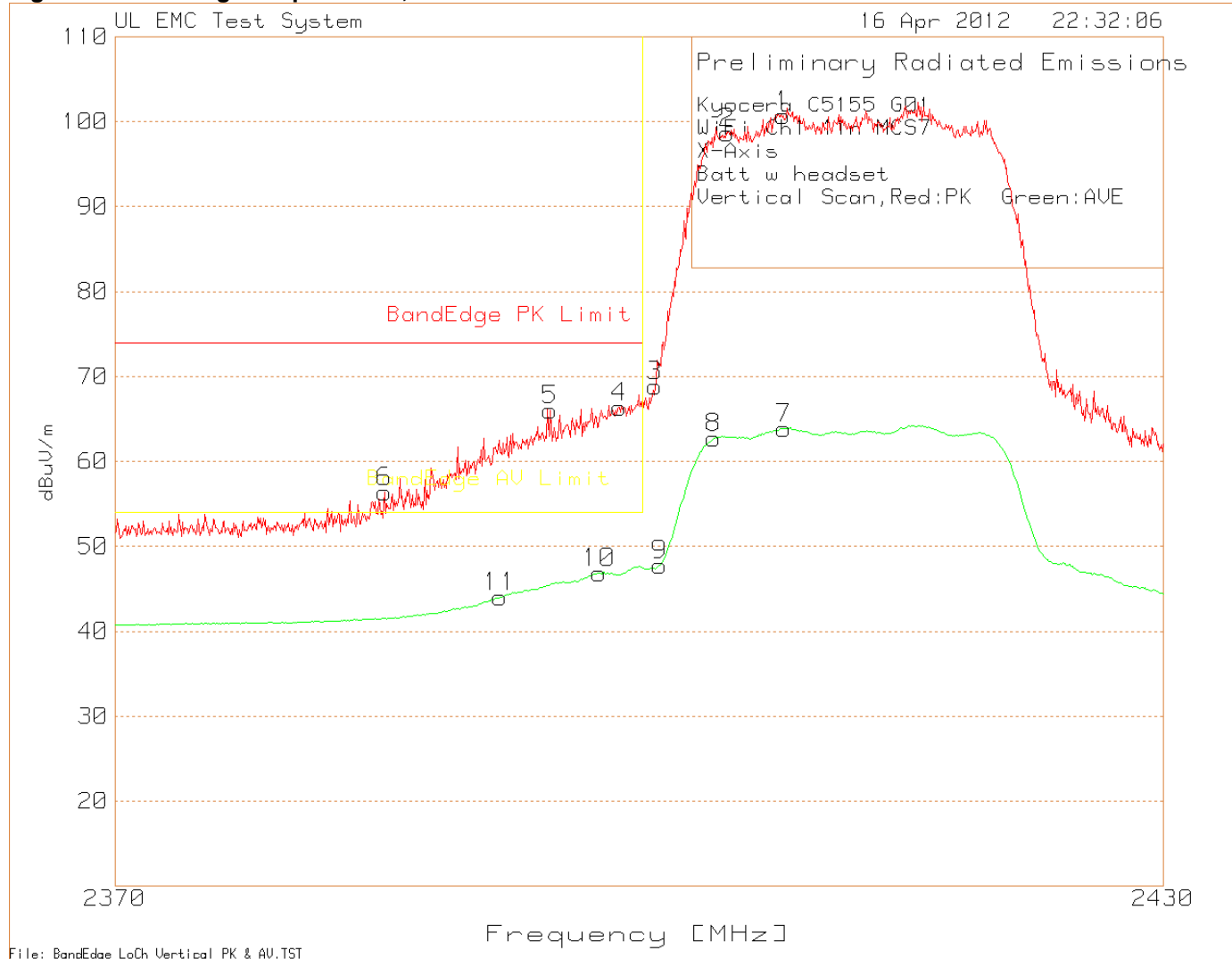
4.2.11 Band-edge, 802.11n, MCS7, Low Channel

Figure 27 Band-edge Graph Z-Axis, Horizontal



No Emissions were recorded in restricted band, see plot for data. Limit line stops at 2400MHz. Restricted Band ends 2390MHz

Figure 28 Band-edge Graph X-Axis, Vertical



No Emissions were recorded in restricted band, see plot for data. Limit line stops at 2400MHz. Restricted Band ends 2390MHz

4.2.12 Band-edge, 802.11b, 1Mbps, High Channel

Figure 29 Band-edge Graph Z-Axis, Horizontal

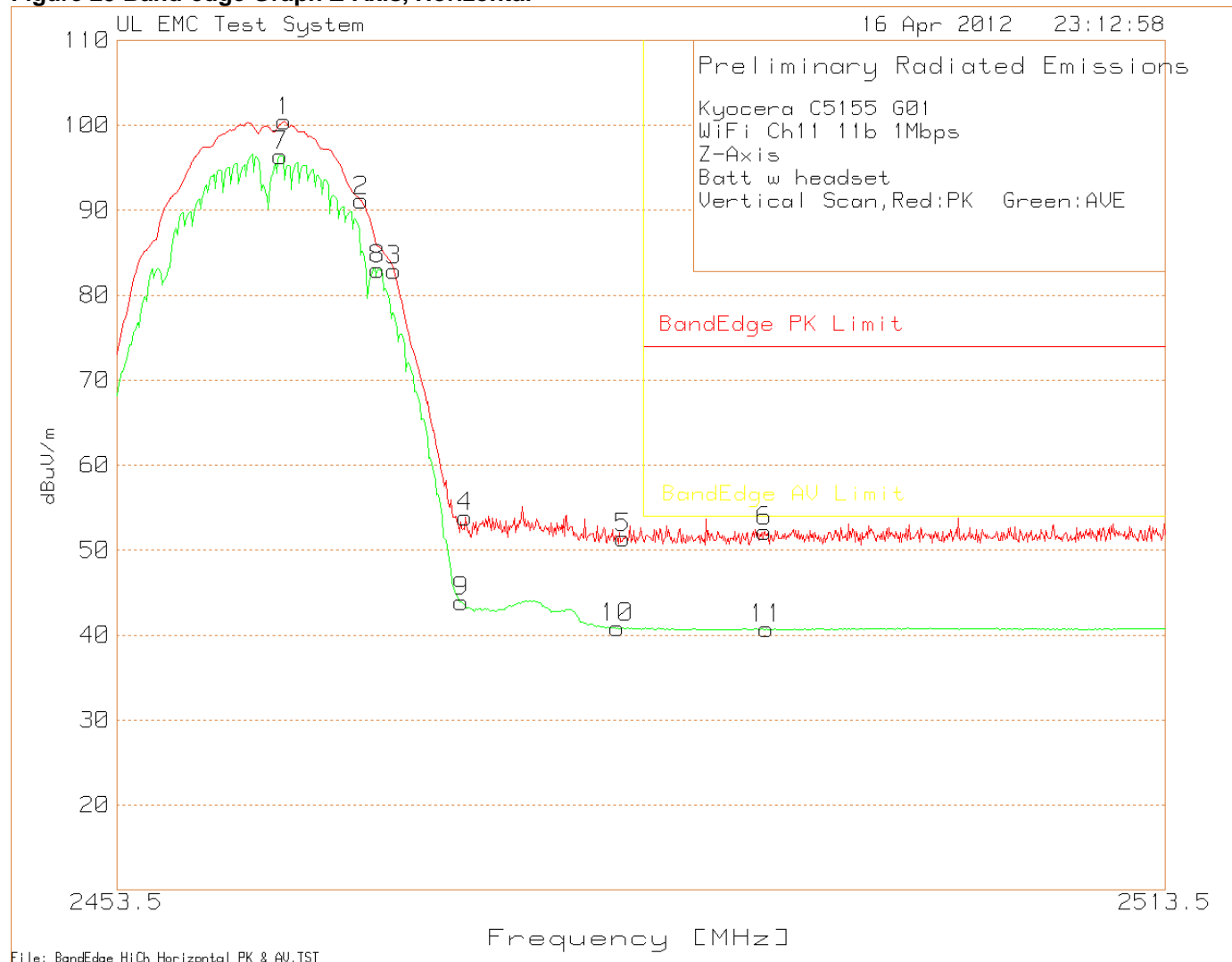


Table 17 Band-edge Data Z-Axis, Horizontal

Kyocera C5155 G01
WiFi Ch11 11b 1Mbps
Z-Axis
Batt w headset
Vertical Scan, Red:PK Green:AVE

Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain Factor dB	dBuV/m	BandEdge Limit	Margin	Height [cm]	Polarity
2490.437	26.25	PK	22.1	3.81	52.16	74	-21.84	100	Horz
2490.557	14.79	AV	22.1	3.82	40.71	54	-13.29	100	Horz

PK - Peak detector
Av - Average detector

Figure 30 Band-edge Graph X-Axis, Vertical

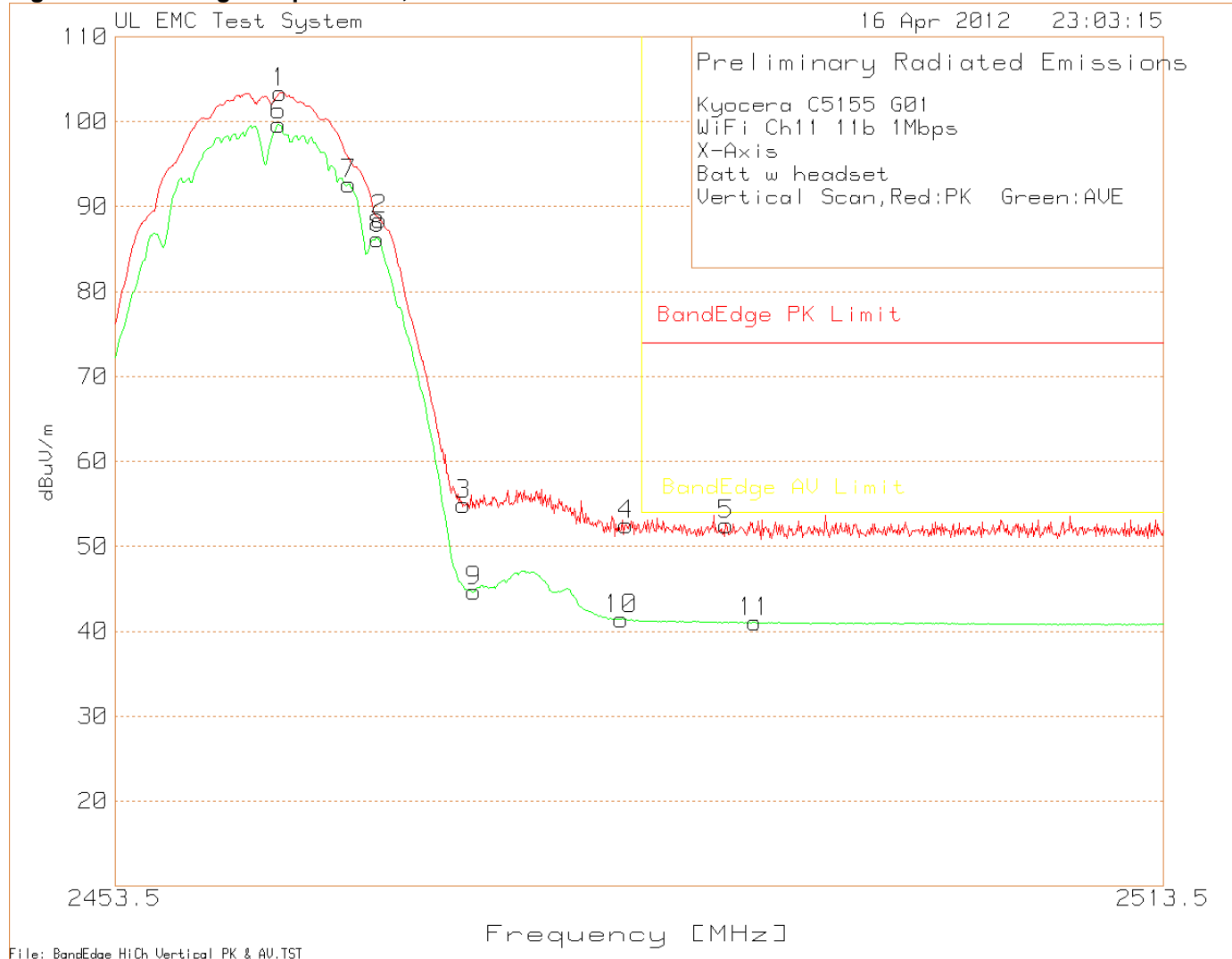


Table 18 Band-edge Data X-Axis, Vertical

Kyocera C5155 G01
WiFi Ch11 11b 1Mbps
X-Axis
Batt w headset
Vertical Scan, Red:PK Green:AUE

Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain Factor dB	dBuV/m	BandEdge Limit	Margin	Height [cm]	Polarity
2488.335	26.66	PK	22.1	3.78	52.54	74	-21.46	150	Vert
2489.956	15.13	AV	22.1	3.81	41.04	54	-12.96	150	Vert

PK - Peak detector
Av - Average detector

4.2.13 Band-edge, 802.11b, 11Mbps, High Channel

Figure 31 Band-edge Graph Z-Axis, Horizontal

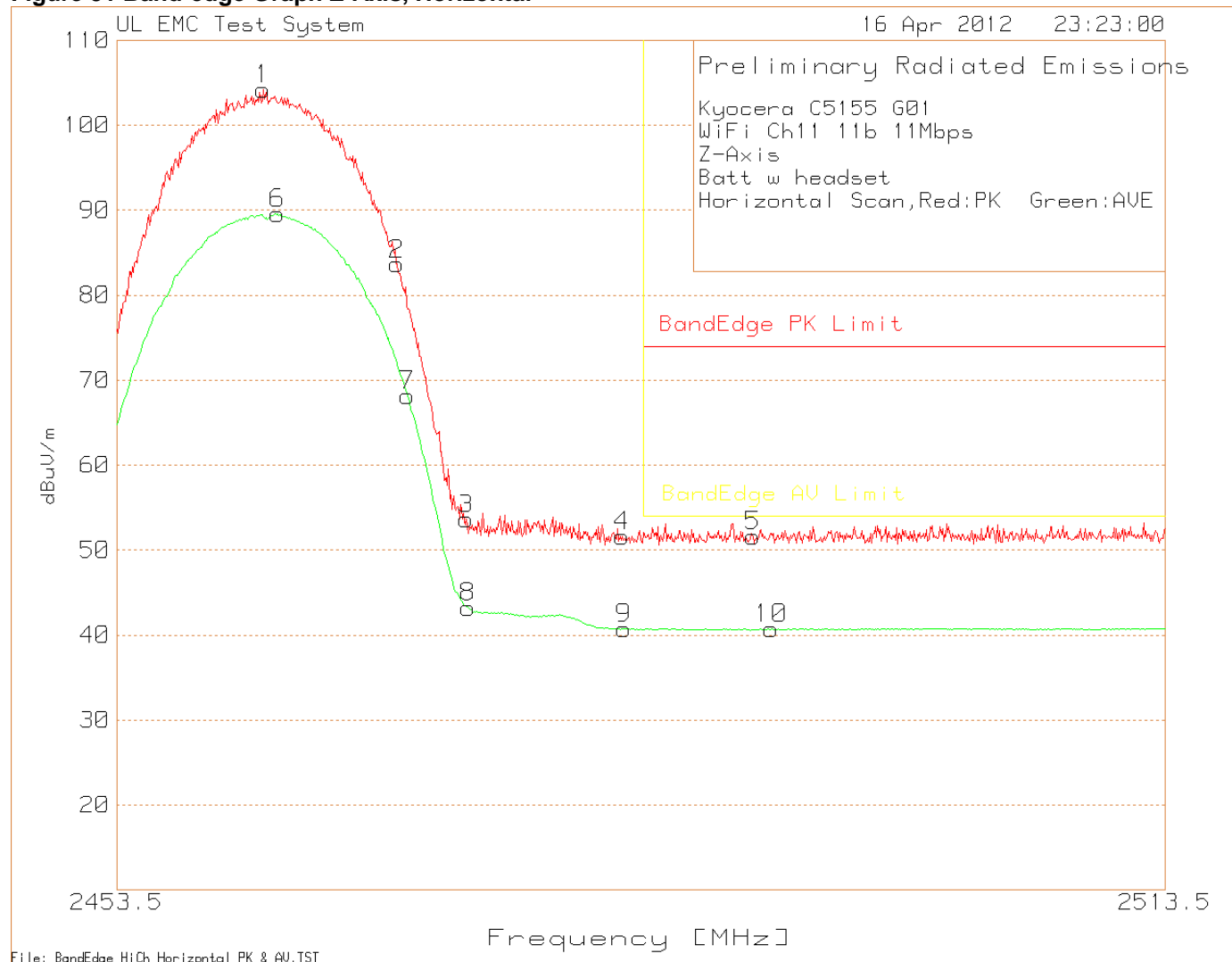


Table 19 Band-edge Data Z-Axis, Horizontal

Kyocera C5155 G01
WiFi Ch11 11g 6Mbps
Z-Axis
Batt w headset
Horizontal Scan, Red:PK Green:AVE

Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain Factor dB	dBuV/m	BandEdge Limit	Margin	Height [cm]	Polarity
2484.491	33.21	PK	22.1	3.77	59.08	74	-14.92	150	Horz
2490.857	30.24	PK	22.1	3.82	56.16	74	-17.84	100	Horz
2487.554	15.55	PK	22.1	3.77	41.42	54	-12.58	100	Horz

PK - Peak detector
Av - Average detector

Figure 32 Band-edge Graph X-Axis, Vertical

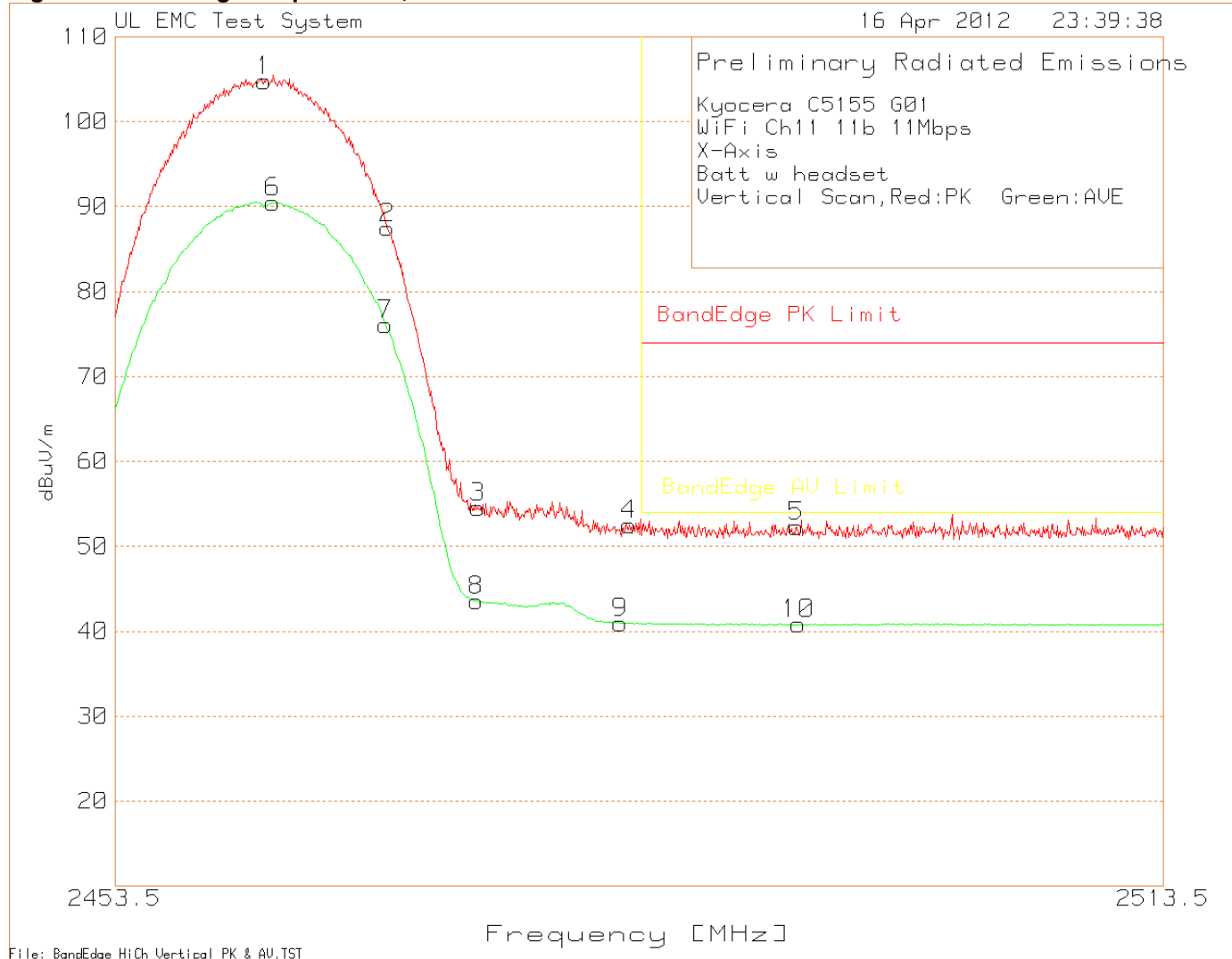


Table 20 Band-edge Data X-Axis, Vertical

Kyocera C5155 G01
WiFi Ch11 11b 11Mbps
X-Axis
Batt w headset
Vertical Scan, Red:PK Green:AVE

Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain Factor dB	dBuV/m	BandEdge Limit	Margin	Height [cm]	Polarity
2492.359	26.32	PK	22.1	3.84	52.26	74	-21.74	150	Vert
2492.479	14.89	AV	22.1	3.85	40.84	54	-13.16	150	Vert

PK - Peak detector
Av - Average detector

4.2.14 Band-edge, 802.11g, 6Mbps, High Channel

Figure 33 Band-edge Graph Z-Axis, Horizontal

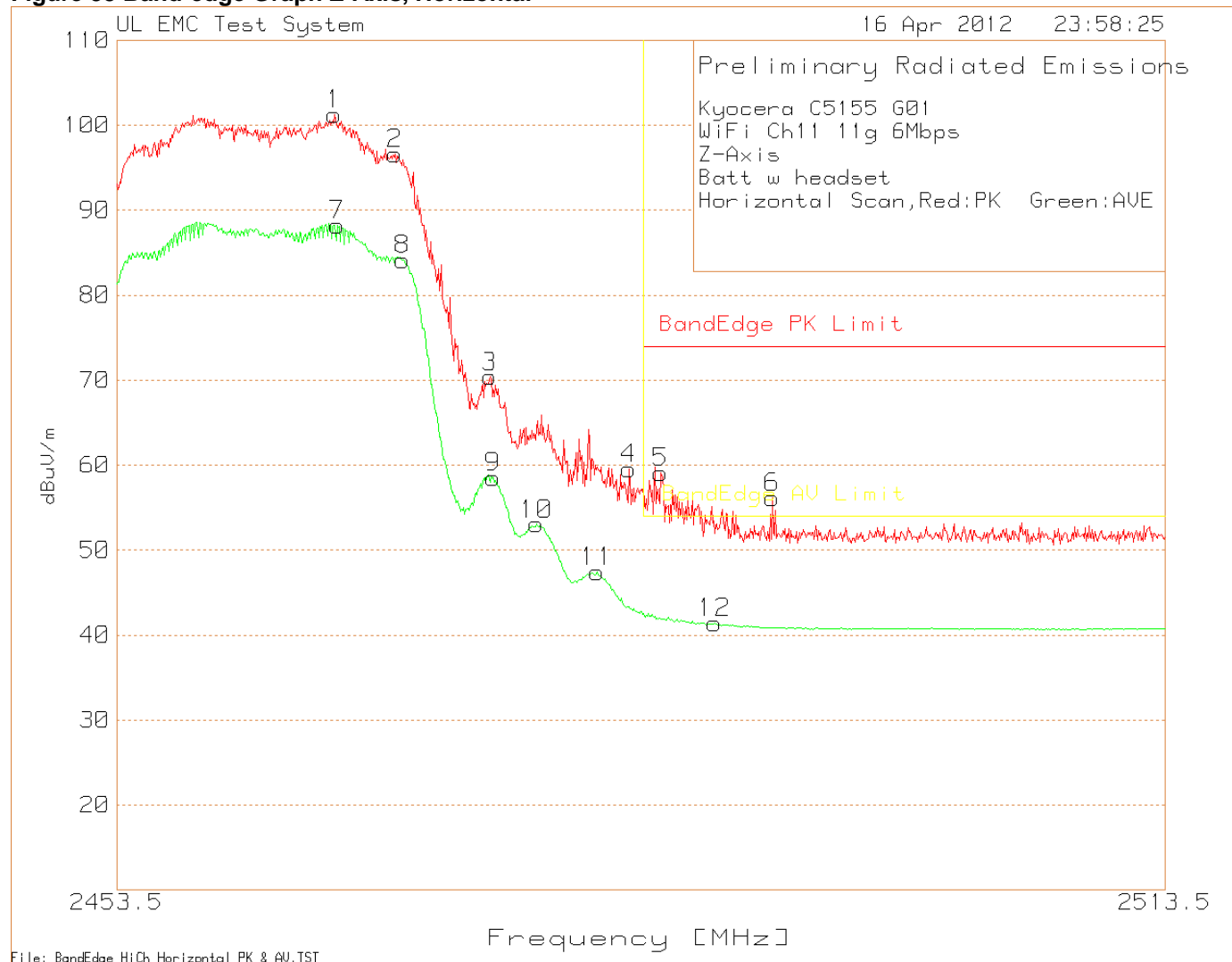


Table 21 Band-edge Data Z-Axis, Horizontal

Kyocera C5155 G01
WiFi Ch11 11g 6Mbps
Z-Axis
Batt w headset
Horizontal Scan, Red:PK Green:AVE

Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain Factor dB	dBuV/m	BandEdge Limit	Margin	Height [cm]	Polarity
2484.491	33.21	PK	22.1	3.77	59.08	74	-14.92	150	Horz
2490.857	30.24	PK	22.1	3.82	56.16	74	-17.84	100	Horz
2487.554	15.55	AV	22.1	3.77	41.42	54	-12.58	100	Horz

PK - Peak detector
Av - Average detector

Figure 34 Band-edge Graph X-Axis, Vertical

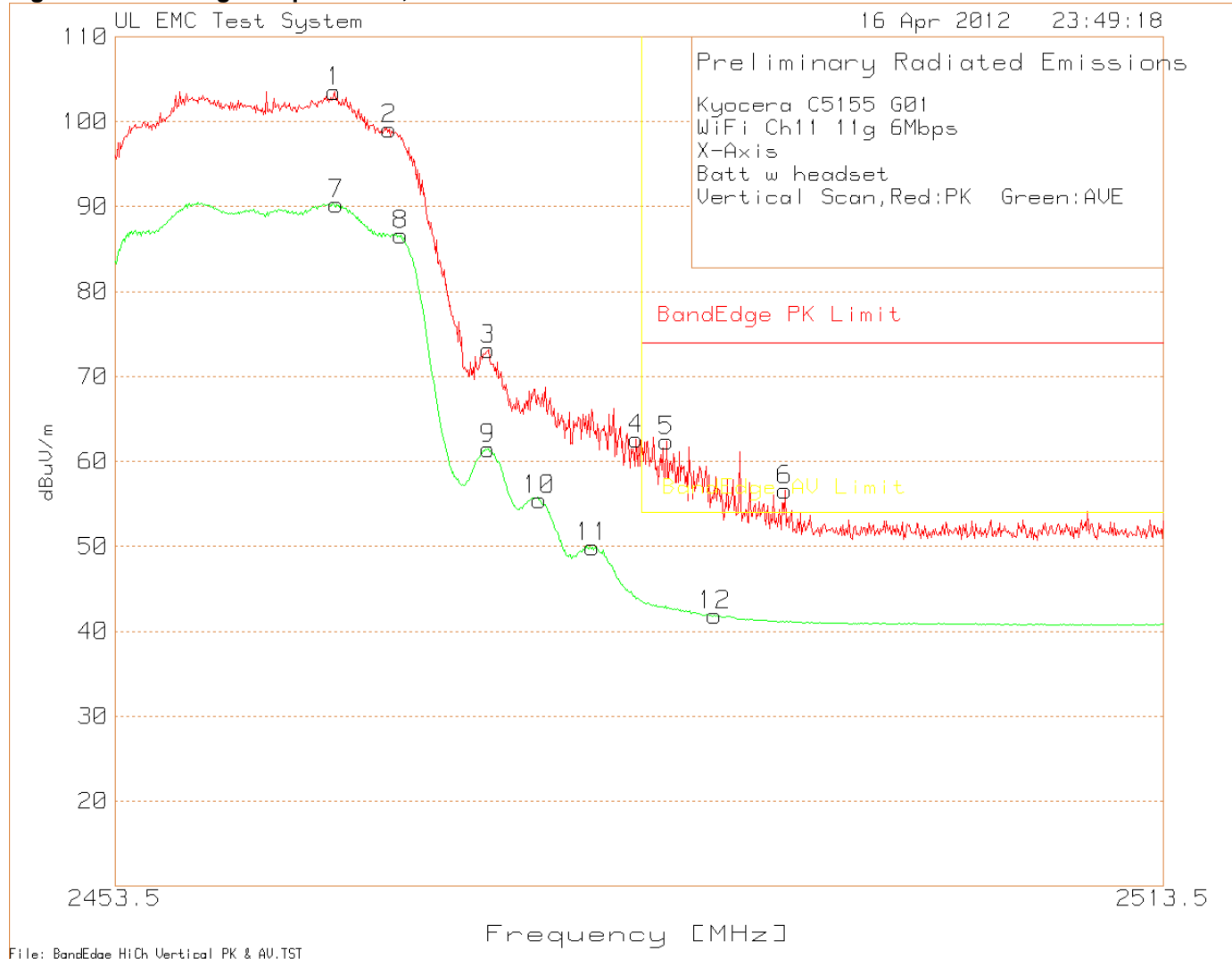


Table 22 Band-edge Data X-Axis, Vertical

Kyocera C5155 G01
WiFi Ch11 11g 6Mbps
X-Axis
Batt w headset
Vertical Scan, Red:PK Green:Ave

Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain Factor dB	dBuV/m	BandEdge Limit	Margin	Height [cm]	Polarity
2484.911	36.53	PK	22.1	3.77	62.4	74	-11.6	150	Vert
2491.698	30.65	PK	22.1	3.83	56.58	74	-17.42	100	Vert
2487.644	16.01	AV	22.1	3.77	41.88	54	-12.12	103	Vert

PK - Peak detector
Av - Average detector

4.2.15 Band-edge, 802.11g, 54Mbps, High Channel

Figure 35 Band-edge Graph Z-Axis, Horizontal

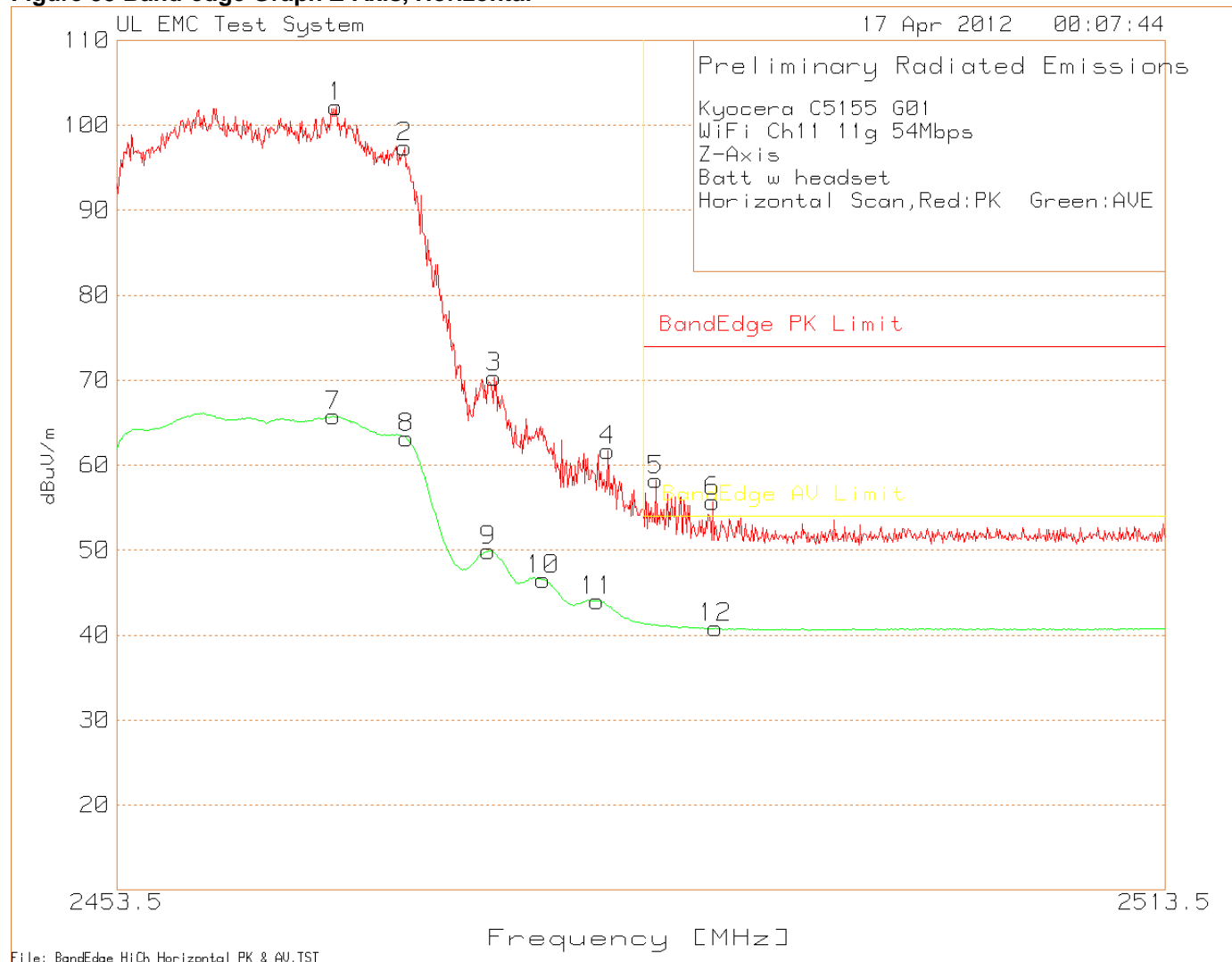


Table 23 Band-edge Data Z-Axis, Horizontal

Kyocera C5155 G01
WiFi Ch11 11g 54Mbps
Z-Axis
Batt w headset
Horizontal Scan, Red:PK Green:AVE

Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain Factor dB	dBuV/m	BandEdge Limit	Margin	Height [cm]	Polarity
2484.191	32.38	PK	22.1	3.77	58.25	74	-15.75	99	Horz
2487.434	29.79	PK	22.1	3.77	55.66	74	-18.34	99	Horz
2487.614	14.94	AV	22.1	3.77	40.81	54	-13.19	99	Horz

PK - Peak detector
Av - Average detector

Figure 36 Band-edge Graph X-Axis, Vertical

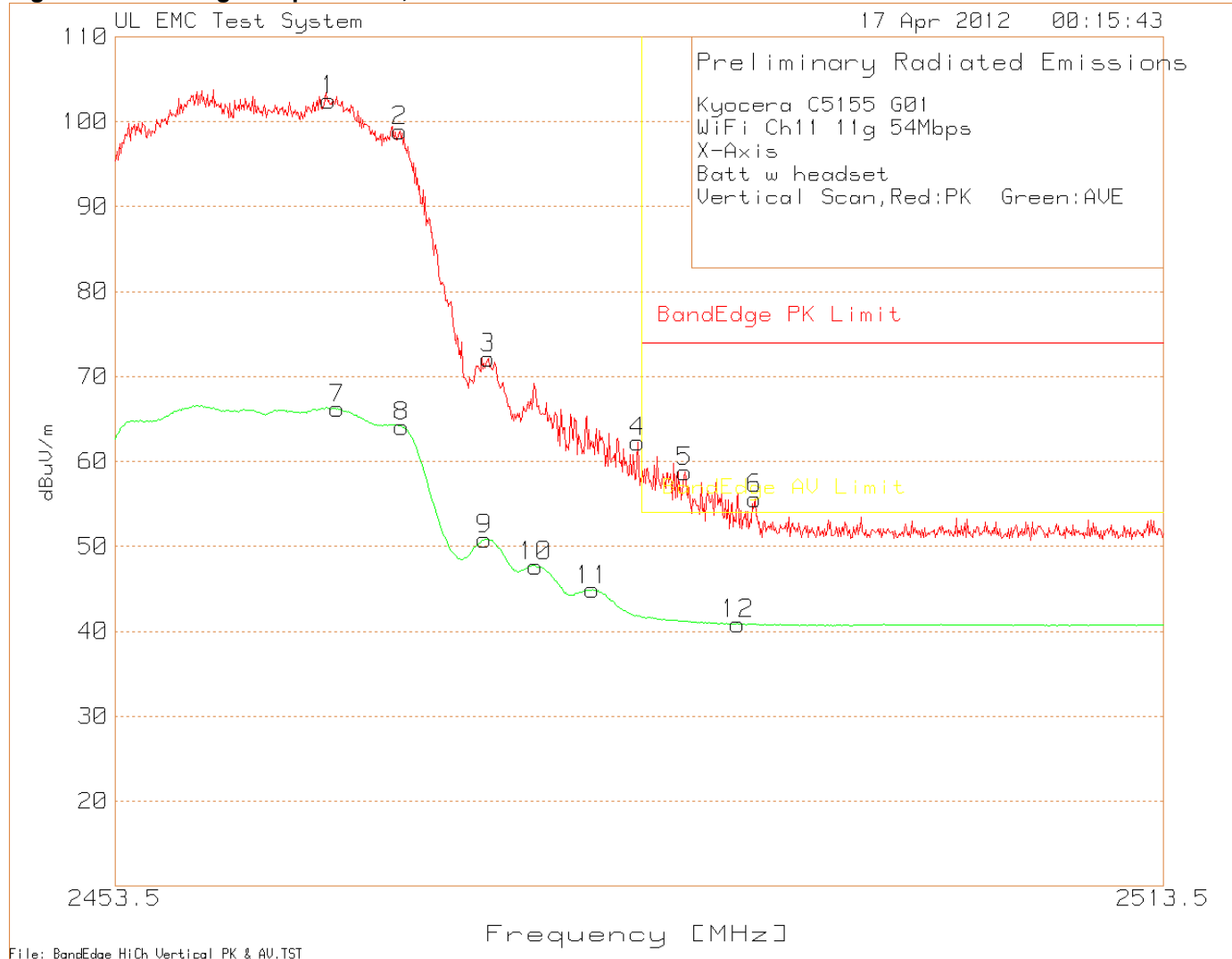


Table 24 Band-edge Data X-Axis, Vertical

Kyocera C5155 G01
WiFi Ch11 11g 54Mbps
X-Axis
Batt w headset
Vertical Scan, Red:PK Green:AVE

Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain Factor dB	dBuV/m	BandEdge Limit	Margin	Height [cm]	Polarity
2485.932	32.88	PK	22.1	3.77	58.75	74	-15.25	100	Vert
2489.956	29.64	PK	22.1	3.81	55.55	74	-18.45	150	Vert
2488.995	14.97	AV	22.1	3.79	40.86	54	-13.14	100	Vert

PK - Peak detector
Av - Average detector

4.2.16 Band-edge, 802.11n, MCS0, High Channel

Figure 37 Band-edge Graph Z-Axis, Horizontal

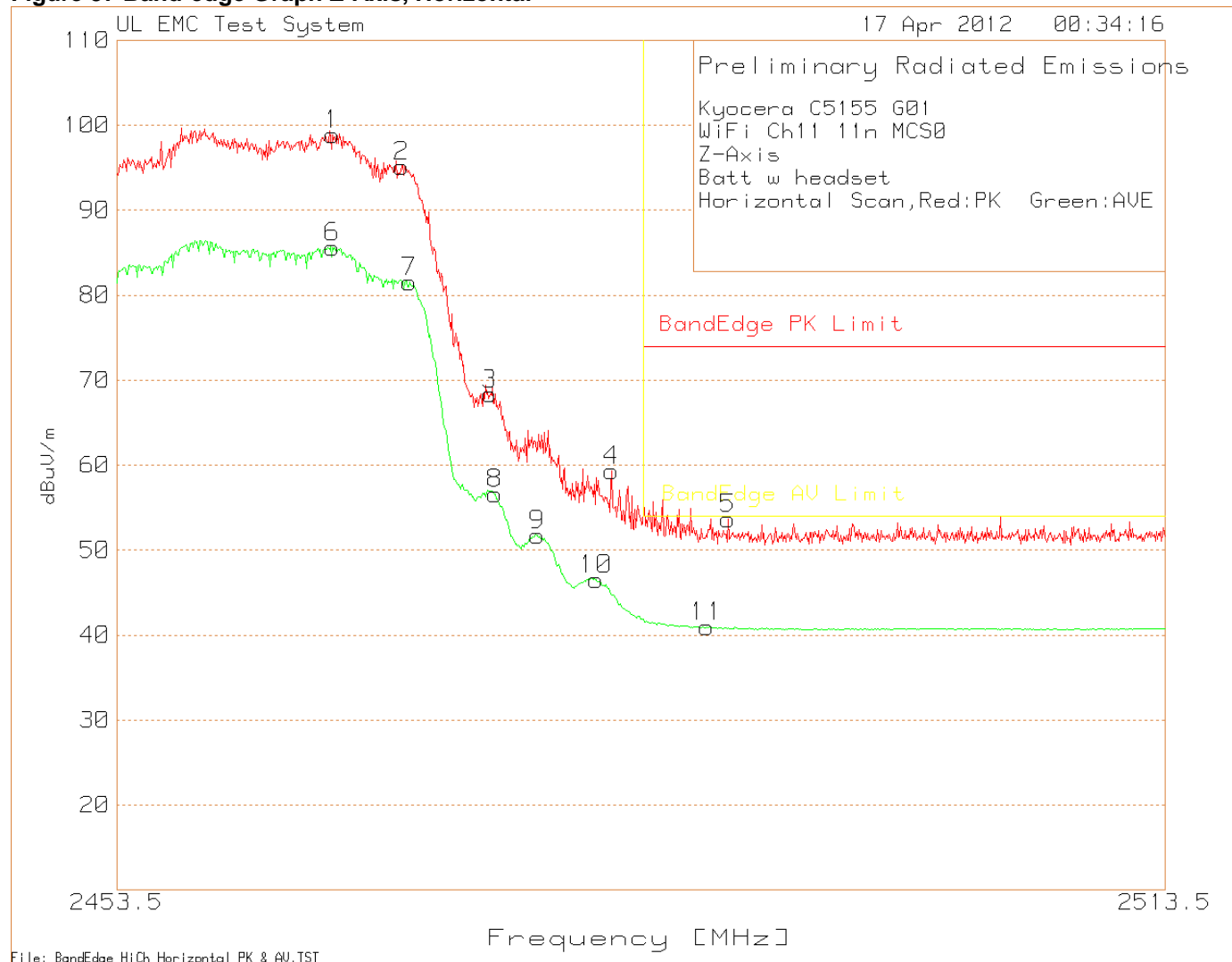


Table 25 Band-edge Data Z-Axis, Horizontal

Kyocera C5155 G01
WiFi Ch11 11n MCS0
Z-Axis
Batt w headset
Horizontal Scan, Red:PK Green:AVE

Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain Factor dB	dBuV/m	BandEdge Limit	Margin	Height [cm]	Polarity
2488.335	27.74	PK	22.1	3.78	53.62	74	-20.38	99	Horz
2487.134	15.05	AV	22.1	3.77	40.92	54	-13.08	99	Horz

PK - Peak detector
Av - Average detector

Figure 38 Band-edge Graph X-Axis, Vertical

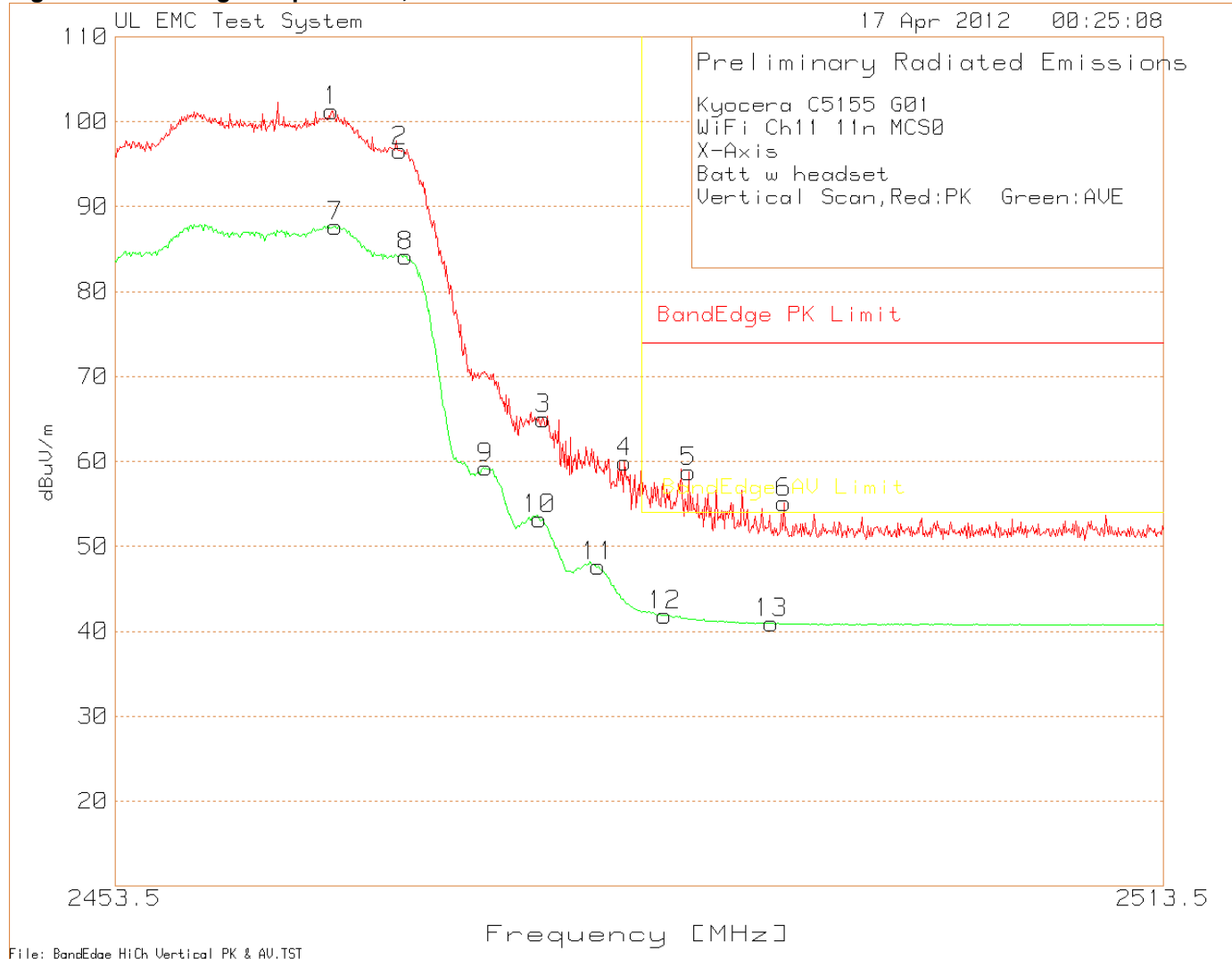


Table 26 Band-edge Data X-Axis, Vertical

Kyocera C5155 G01
WiFi Ch11 11n MCS0
X-Axis
Batt w headset
Vertical Scan, Red:PK Green:AVE

Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain Factor dB	dBuV/m	BandEdge Limit	Margin	Height [cm]	Polarity
2486.173	32.91	PK	22.1	3.77	58.78	74	-15.22	150	Vert
2491.638	29.18	PK	22.1	3.83	55.11	74	-18.89	100	Vert
2484.791	15.99	AV	22.1	3.77	41.86	54	-12.14	100	Vert
2490.917	15.03	AV	22.1	3.82	40.95	54	-13.05	100	Vert

PK - Peak detector
Av - Average detector

4.2.17 Band-edge, 802.11n, MCS7, High Channel

Figure 39 Band-edge Graph Z-Axis, Horizontal



Table 27 Band-edge Data Z-Axis, Horizontal

Kyocera C5155 G01
WiFi Ch11 11n MCS7
Z-Axis
Batt w headset
Horizontal Scan, Red:PK Green:AVE

Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain Factor dB	dBuV/m	BandEdge Limit	Margin	Height [cm]	Polarity
2490.617	25.61	PK	22.1	3.82	51.53	74	-22.47	150	Horz
2488.335	14.76	AV	22.1	3.78	40.64	54	-13.36	99	Horz

PK - Peak detector
Av - Average detector

Figure 40 Band-edge Graph X-Axis, Vertical

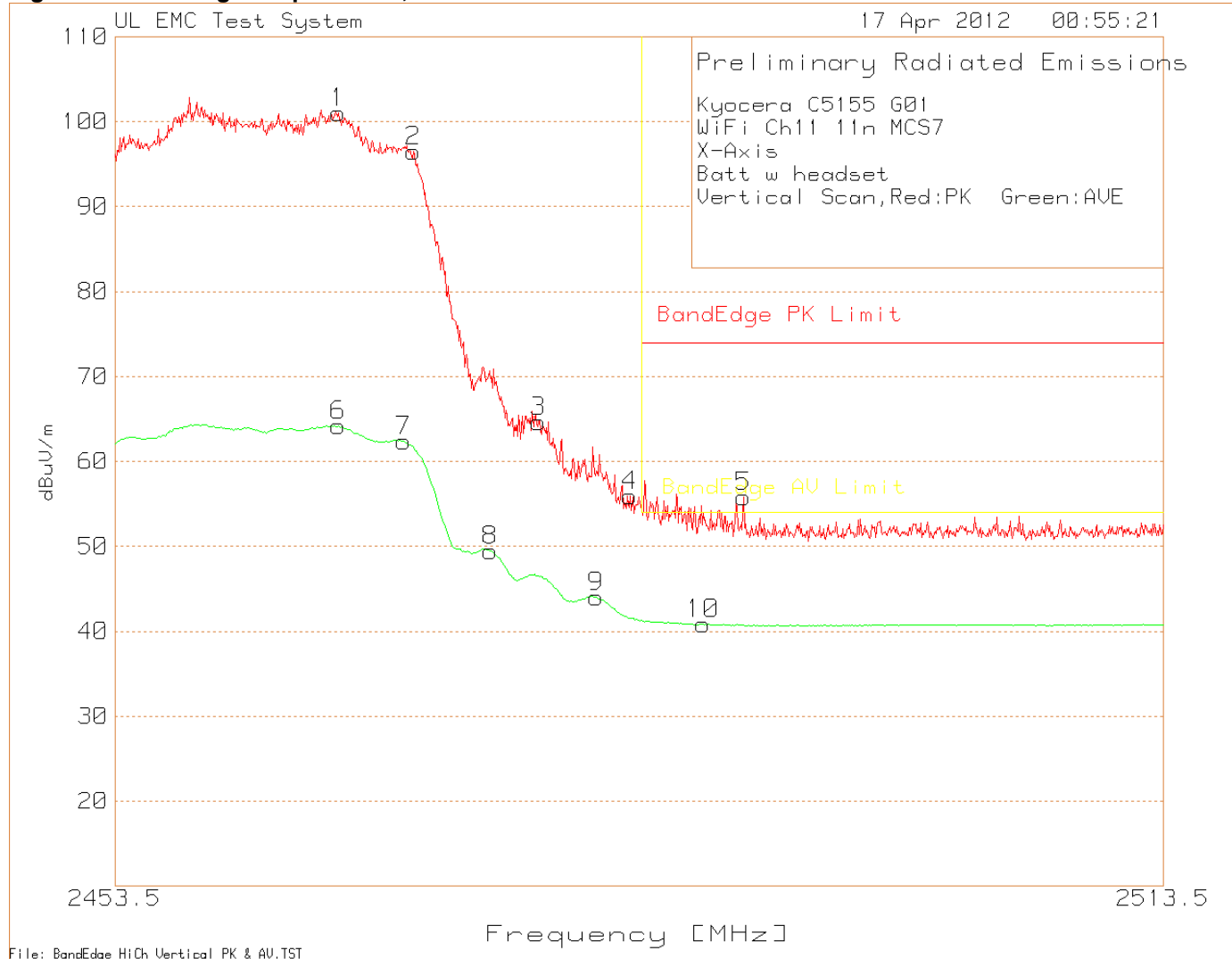


Table 28 Band-edge Data X-Axis, Vertical

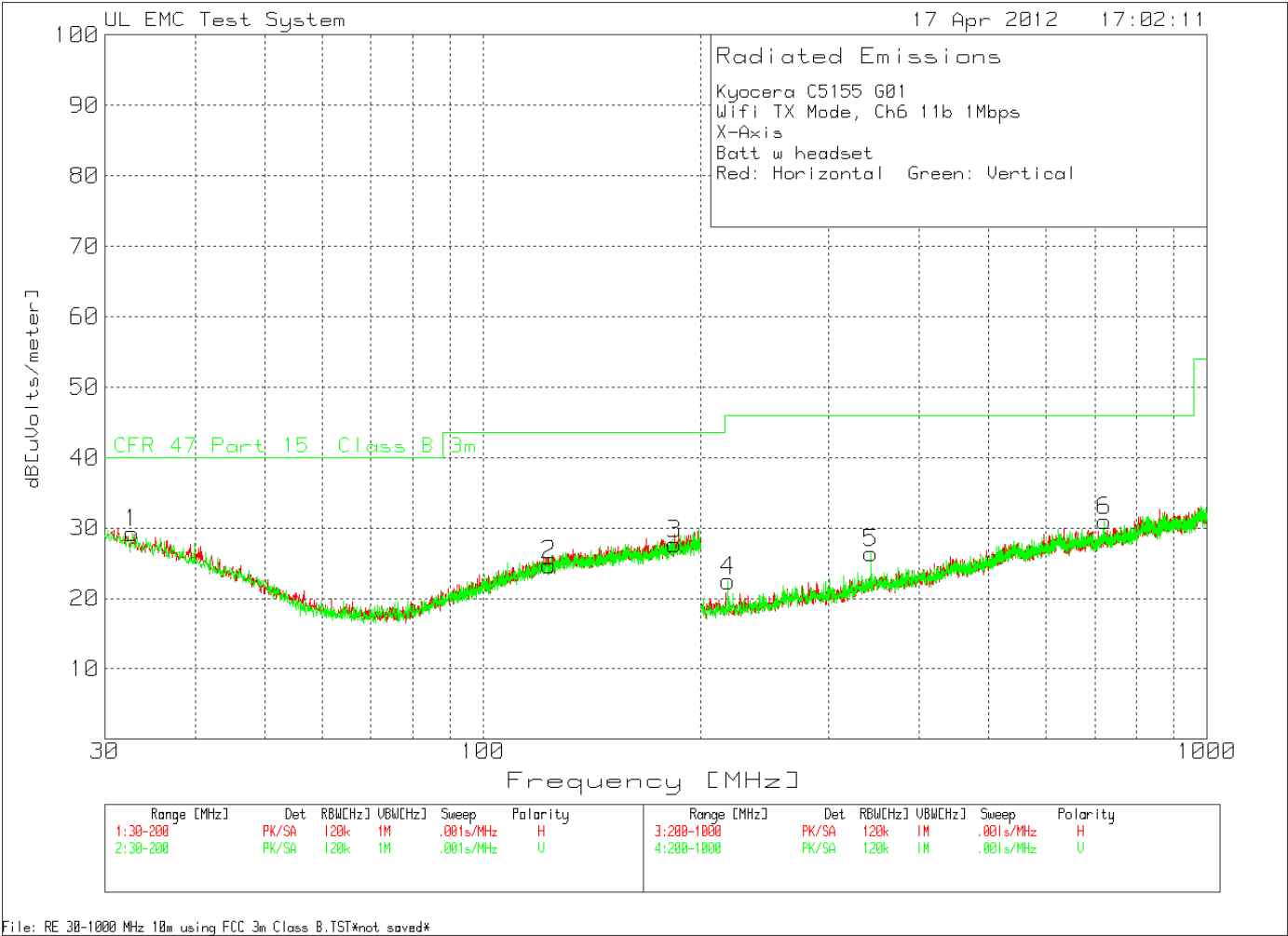
Kyocera C5155 G01
WiFi Ch11 11n MCS7
X-Axis
Batt w headset
Vertical Scan, Red:PK Green:AVE

Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain Factor dB	dBuV/m	BandEdge Limit	Margin	Height [cm]	Polarity
2489.296	29.9	PK	22.1	3.8	55.8	74	-18.2	102	Vert
2487.014	14.97	AV	22.1	3.77	40.84	54	-13.16	150	Vert

PK - Peak detector
Av - Average detector

4.2.18Receiver and Digital Radiated Emissions, Battery Mode, 30MHz – 1GHz

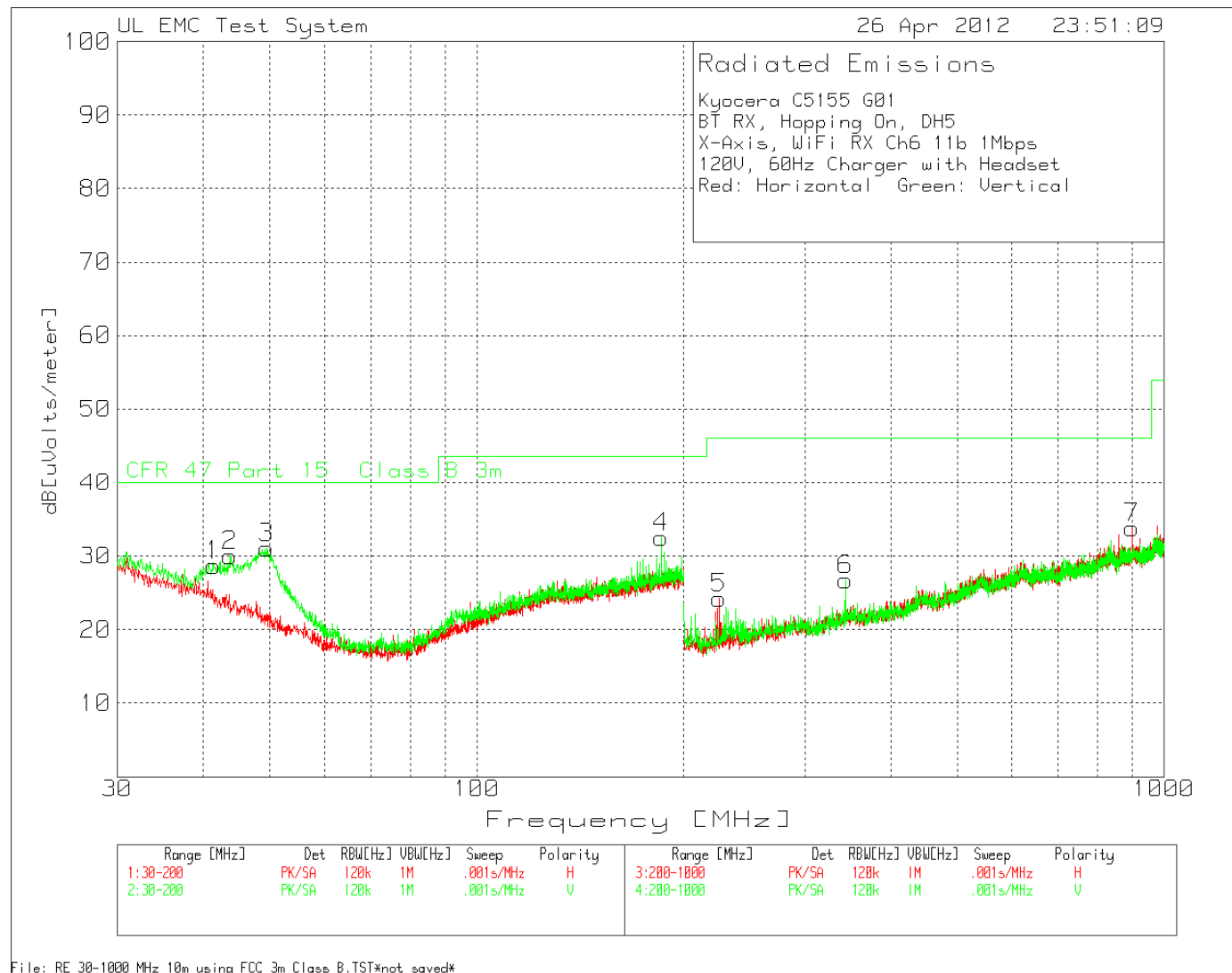
Figure 41 Radiated Emissions Graph



No Emissions found within 6dB to the limit

4.2.19 Receiver and Digital Radiated Emissions, Charging Mode, 30MHz – 1GHz

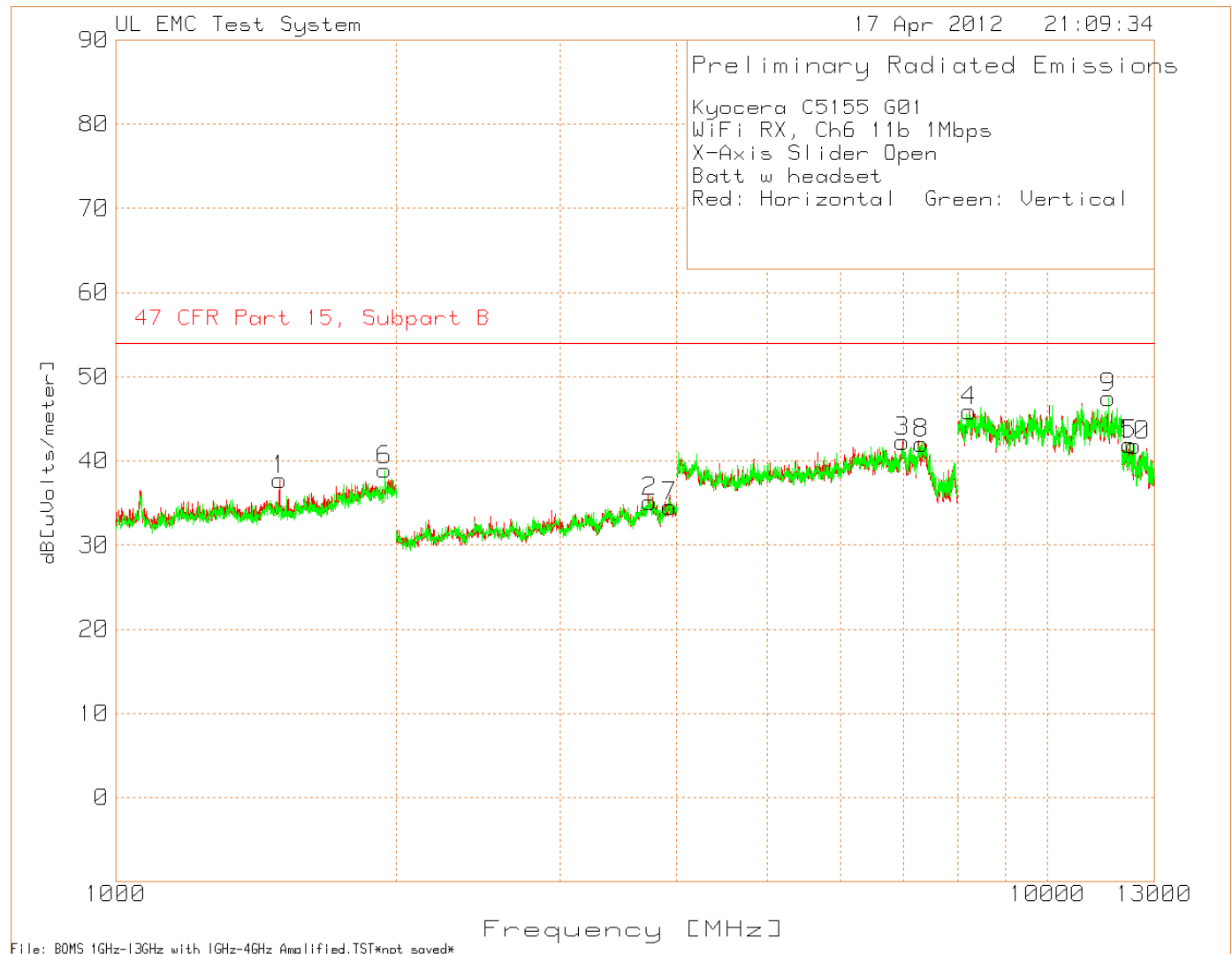
Figure 42 Radiated Emissions Graph



No Emissions found within 6dB to the limit

4.2.20Receiver and Digital Radiated Emissions, Battery Mode, 1GHz – 13GHz

Figure 43 Radiated Emissions Graph



No Emissions detected above noise floor

FCC ID: V65C5155
Model Number: C5155 G01
Client Name: Kyocera Communications

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5 IMMUNITY TEST RESULTS

Immunity tests are not required per the standard

Appendix A

Accreditations and Authorizations



NVLAP Lab code: 100414-0

NVLAP: The National Institute of Standards and Technology (NIST) administers the National Voluntary Laboratory Accreditation Program (NVLAP). NVLAP is comprised of laboratory accreditation programs (LAPs) which are established on the basis of requests and demonstrated need. Each LAP includes specific calibration and/or test standards and related methods and protocols assembled to satisfy the unique needs for accreditation in a field of testing or calibration. NVLAP accredits public and private laboratories based on evaluation of their technical qualifications and competence to carry out specific calibrations or tests. Accreditation criteria are established in accordance with the U.S. Code of Federal Regulations (CFR, Title 15, Part 285), NVLAP Procedures and General Requirements, and encompass the requirements of ISO/IEC 17025. For a full scope listing see <http://ts.nist.gov/standards/scopes/1004140.htm>



FCC: Details of the measurement facilities used for these tests have been filed with the Federal Communications Commission's Laboratory in Columbia, Maryland (Ref. No. 91044).



Industry Canada Industrie Canada

Industry of Canada: Accredited by Industry Canada for performance of radiated measurements. Our test site complies with RSP 100, Issue 7, Section 3.3. File #: IC 2180



VCCI: Accepted as an Associate Member to the VCCI. The measurement facilities detailed in this test report have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. Registration Nos.: Radiated Emissions R-621, Conducted Emissions C-642.



ICASA: ICASA (Independent Communications Authority of South Africa) has appointed UL as a Designated Test Laboratory to test Telecommunications equipment for type approval in compliance with CISPR 22 to assist in fulfilling its mandate under section 54(1) of the Telecommunications Act, 1996 (Act 103 of 1996).



NIST/CAB: Validated by the European Commission as a U.S. Conformity Assessment Body (CAB) of the U.S.-EU Mutual Recognition Agreement (MRA) for the Electromagnetic Compatibility - Council Directive 2004/108/EC, Annex III (2-3). Also validated for the Telecommunication Equipment-Council Directive 99/5/EC, Annex III and IV, Identification Number: 0983.

NIST/CAB: Provisioned to act as a U.S. Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the Asia Pacific Economic Cooperation (APEC) MRA between the American Institute in Taiwan (AIT) and the United States. Our laboratory is considered qualified to test equipment subject to the applicable EMC regulations of the Chinese Taipei Bureau of Standards, Metrology and Inspection (BSMI) which require testing to CNS 13438 (CISPR 22).

NIST/CAB: Recognized by the Infocomm Development Authority of Singapore (IDA) under the Asia Pacific Economic Cooperation Mutual Recognition Agreement (APEC MRA). Our laboratory is provisionally designated to act as a Conformity Assessment Body (CAB) under Appendix B, Phase I Procedures, of the APEC MRA. Our scope of designation includes IDA TS EMC (CISPR 22), IEC 61000-4-2, -4-3, -4-4, -4-5, and -4-6

