UL LLC
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Project Number:	12U4357
FCC ID	V65C5155A1
Date:	April 27, 2012
Model:	C5155

Electromagnetic Compatibility Test Report

For

KYOCERA Communications, Inc.

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 25, 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	**V65C5155A1**
EUT Category:	**Transceiver**
Testing Start Date:	**April 18, 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.

Report Directory

Report Revision History

Revision Date	Description	Revised By	Revision Reviewed By
None			

1 G E N E R A L - Product Description

1.1 Equipment Description

FCC ID V65C5155A1 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:

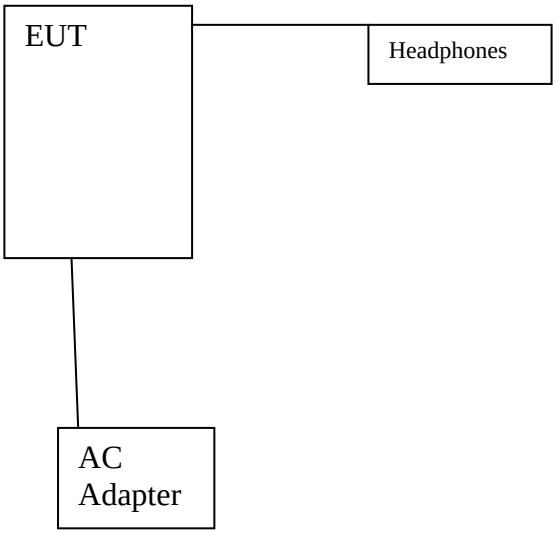
Frequency (MHz)	Description
2400	Wifi

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

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

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

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

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

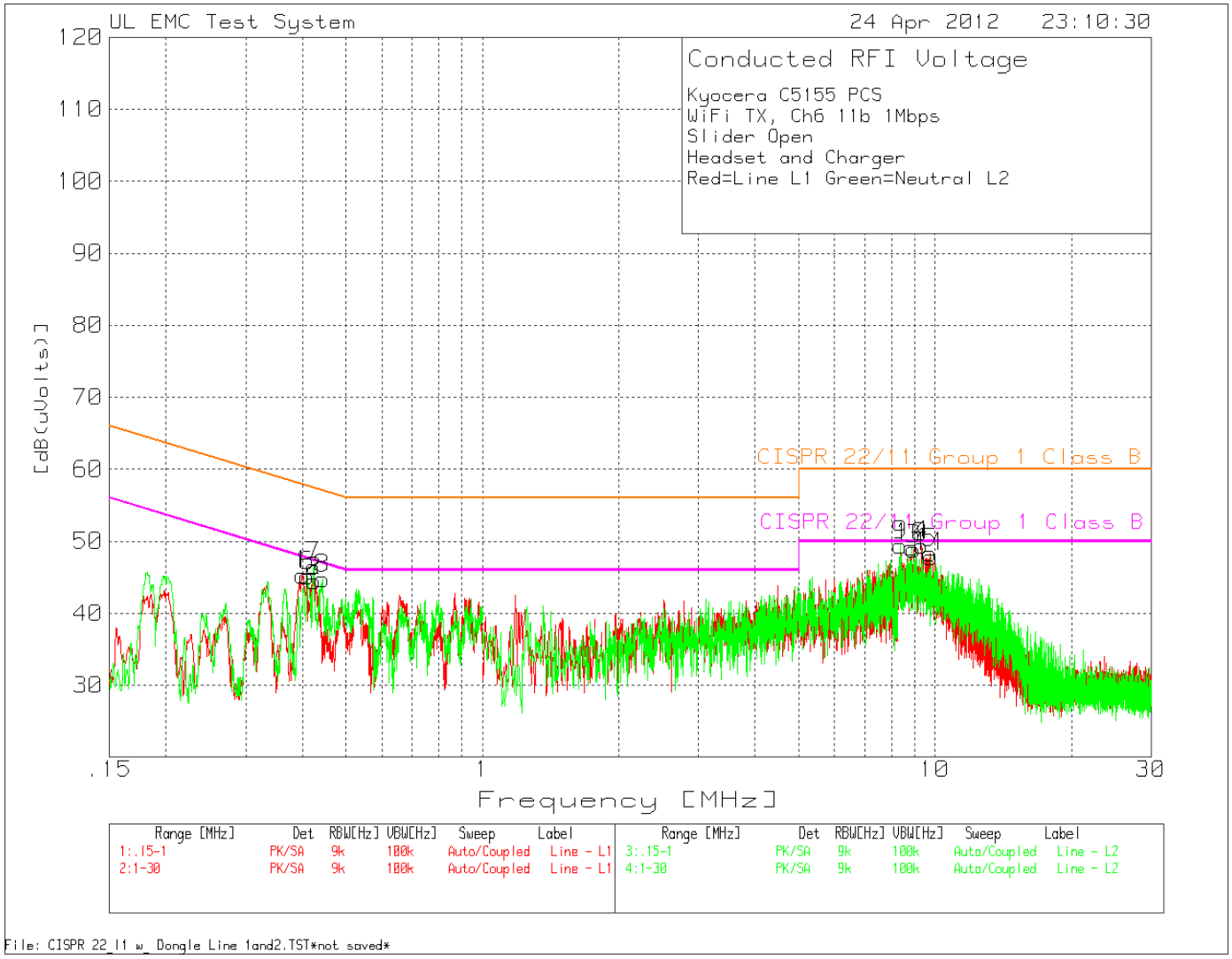


Table 3 Conducted Emissions Data Points

Kyocera C5155 PCS
WiFi TX, Ch6 11b 1Mbps
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 - L1 .15 - 1MHz											
1	.40088	34.52 PK	0	10.8	45.32	-	-	57.8	47.8	-	-
				Margin [dB]		-	-	-12.48	-2.48	-	-
2	.42562	33.74 PK	0	10.7	44.44	-	-	57.3	47.3	-	-
				Margin [dB]		-	-	-12.86	-2.86	-	-
Line - L1 1 - 30MHz											
3	8.97889	37.75 PK	.2	10.9	48.85	-	-	60	50	-	-
				Margin [dB]		-	-	-11.15	-1.15	-	-
4	9.34832	38.29 PK	.1	11	49.39	-	-	60	50	-	-
				Margin [dB]		-	-	-10.61	-.61	-	-
5	9.72499	37.23 PK	.1	11	48.33	-	-	60	50	-	-
				Margin [dB]		-	-	-11.67	-1.67	-	-
Line - L2 .15 - 1MHz											
6	.41075	34.35 PK	0	10.8	45.15	-	-	57.6	47.6	-	-
				Margin [dB]		-	-	-12.45	-2.45	-	-
7	.42392	35.65 PK	0	10.8	46.45	-	-	57.4	47.4	-	-
				Margin [dB]		-	-	-10.95	-.95	-	-
8	.44346	34.03 PK	0	10.7	44.73	-	-	57	47	-	-
				Margin [dB]		-	-	-12.27	-2.27	-	-
Line - L2 1 - 30MHz											
9	8.38491	38.18 PK	.2	11	49.38	-	-	60	50	-	-
				Margin [dB]		-	-	-10.62	-.62	-	-
10	8.87386	37.95 PK	.2	11	49.15	-	-	60	50	-	-
				Margin [dB]		-	-	-10.85	-.85	-	-
11	9.7757	36.76 PK	.1	11	47.86	-	-	60	50	-	-
				Margin [dB]		-	-	-12.14	-2.14	-	-

PK - Peak detector
LIMIT 3: CISPR 22/11 Group 1 Class B QP
LIMIT 4: CISPR 22/11 Group 1 Class B AV

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

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 - L1 .15 - 1MHz										
.39683	30.9 QP	0	10.8	41.7	-	-	57.92	47.92	-	-
			Margin [dB]:		-	-	-16.22	-6.22	-	-
.43027	28.94 QP	0	10.7	39.64	-	-	57.25	47.25	-	-
			Margin [dB]:		-	-	-17.61	-7.61	-	-
Line - L1 1 - 30MHz										
8.98268	31.18 QP	.2	10.9	42.28	-	-	60	50	-	-
			Margin [dB]:		-	-	-17.72	-7.72	-	-
9.34728	31.5 QP	.1	11	42.6	-	-	60	50	-	-
			Margin [dB]:		-	-	-17.4	-7.4	-	-
9.72327	30.27 QP	.1	11	41.37	-	-	60	50	-	-
			Margin [dB]:		-	-	-18.63	-8.63	-	-
Line - L2 .15 - 1MHz										
.40963	32.06 QP	0	10.8	42.86	-	-	57.66	47.66	-	-
			Margin [dB]:		-	-	-14.8	-4.8	-	-
.42523	32.93 QP	0	10.8	43.73	-	-	57.35	47.35	-	-
			Margin [dB]:		-	-	-13.62	-3.62	-	-
.43846	25.89 QP	0	10.8	36.69	-	-	57.09	47.09	-	-
			Margin [dB]:		-	-	-20.4	-10.4	-	-
Line - L2 1 - 30MHz										
8.38798	28.86 QP	.2	11	40.06	-	-	60	50	-	-
			Margin [dB]:		-	-	-19.94	-9.94	-	-
8.87507	28.19 QP	.2	11	39.39	-	-	60	50	-	-
			Margin [dB]:		-	-	-20.61	-10.61	-	-
9.77465	28.2 QP	.1	11	39.3	-	-	60	50	-	-
			Margin [dB]:		-	-	-20.7	-10.7	-	-

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

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

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 - L1 .15 - 1MHz										
.39683	21.62 Av	0	10.8	32.42	-	-	57.92	47.92	-	-
			Margin [dB]:		-	-	-25.5	-15.5	-	-
.43027	14.41 Av	0	10.7	25.11	-	-	57.25	47.25	-	-
			Margin [dB]:		-	-	-32.14	-22.14	-	-
Line - L1 1 - 30MHz										
8.98268	21.25 Av	.2	10.9	32.35	-	-	60	50	-	-
			Margin [dB]:		-	-	-27.65	-17.65	-	-
9.34728	21.09 Av	.1	11	32.19	-	-	60	50	-	-
			Margin [dB]:		-	-	-27.81	-17.81	-	-
9.72327	20.92 Av	.1	11	32.02	-	-	60	50	-	-
			Margin [dB]:		-	-	-27.98	-17.98	-	-
Line - L2 .15 - 1MHz										
.40963	18.37 Av	0	10.8	29.17	-	-	57.66	47.66	-	-
			Margin [dB]:		-	-	-28.49	-18.49	-	-
.42523	16.39 Av	0	10.8	27.19	-	-	57.35	47.35	-	-
			Margin [dB]:		-	-	-30.16	-20.16	-	-
.43846	10.81 Av	0	10.8	21.61	-	-	57.09	47.09	-	-
			Margin [dB]:		-	-	-35.48	-25.48	-	-
Line - L2 1 - 30MHz										
8.38798	18.8 Av	.2	11	30	-	-	60	50	-	-
			Margin [dB]:		-	-	-30	-20	-	-
8.87507	19.58 Av	.2	11	30.78	-	-	60	50	-	-
			Margin [dB]:		-	-	-29.22	-19.22	-	-
9.77465	19.1 Av	.1	11	30.2	-	-	60	50	-	-
			Margin [dB]:		-	-	-29.8	-19.8	-	-

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

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.

Emissions found near 1.9GHz is noise floor.

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

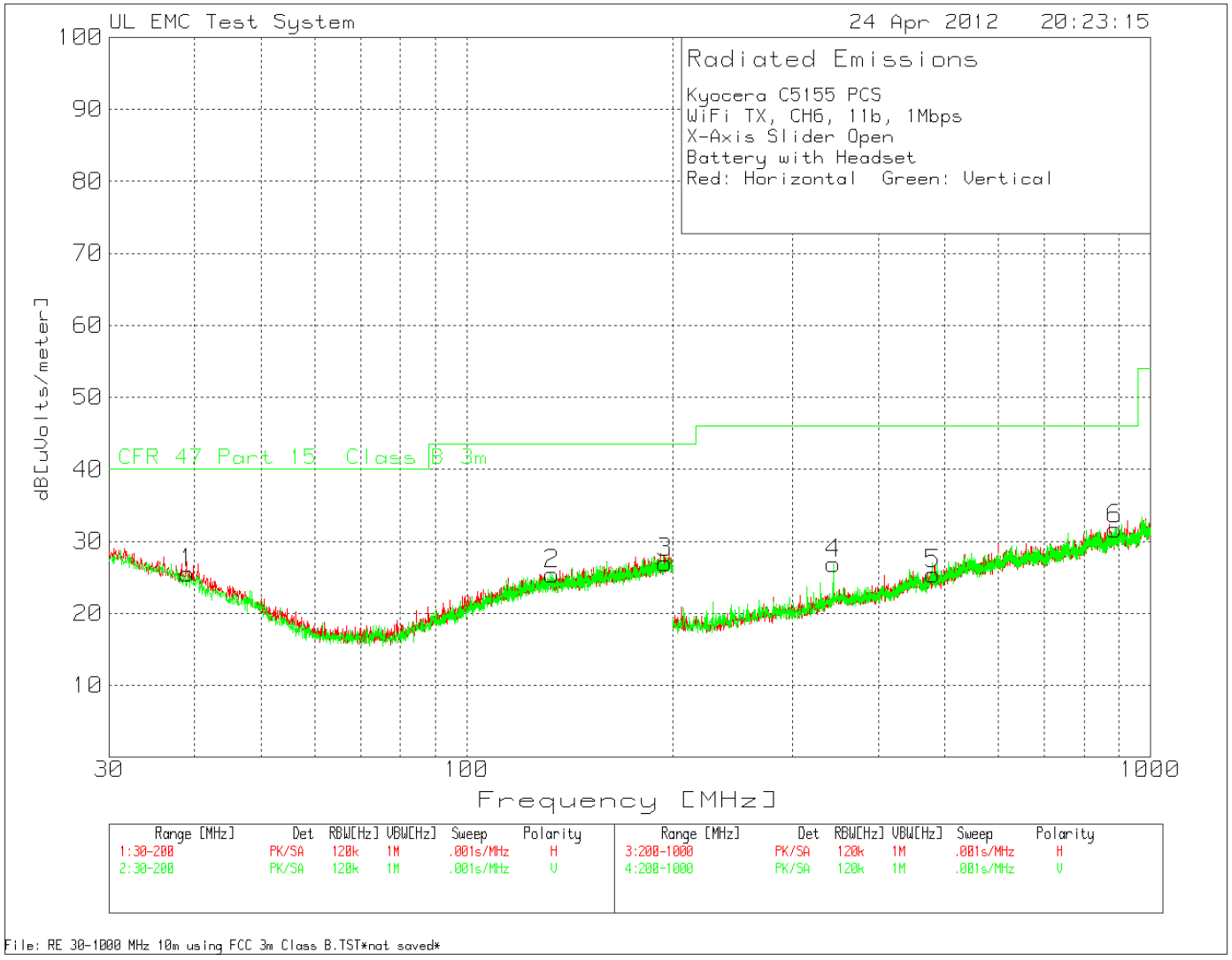
Description	Manufacturer	Model	Identifier	Cal Date	Cal Due
EMI Test Receiver	Rohde & Schwarz	ESU	EMC4323	12/27/11	12/27/12
Bicon Antenna	Chase	VBA6106A	EMC4078	1/17/12	1/31/13
Log-P Antenna	Chase	UPA6109	EMC4313	6/29/11	6/29/12
Spectrum Analyzer	Rhode & Schwarz	FSEK	EMC4182	12/27/11	12/31/12
Antenna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

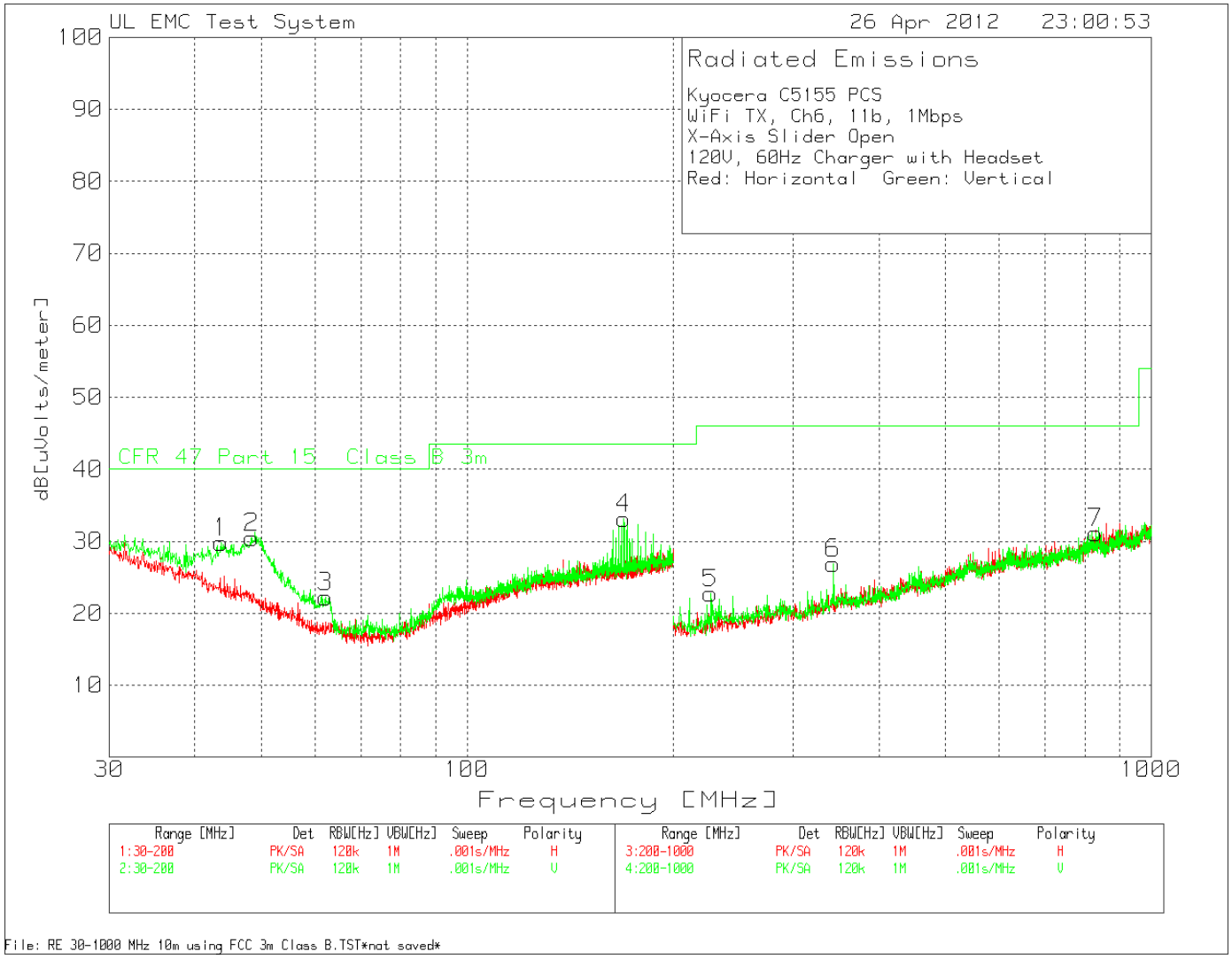
Figure 4 Radiated Emissions Graph X-Axis



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

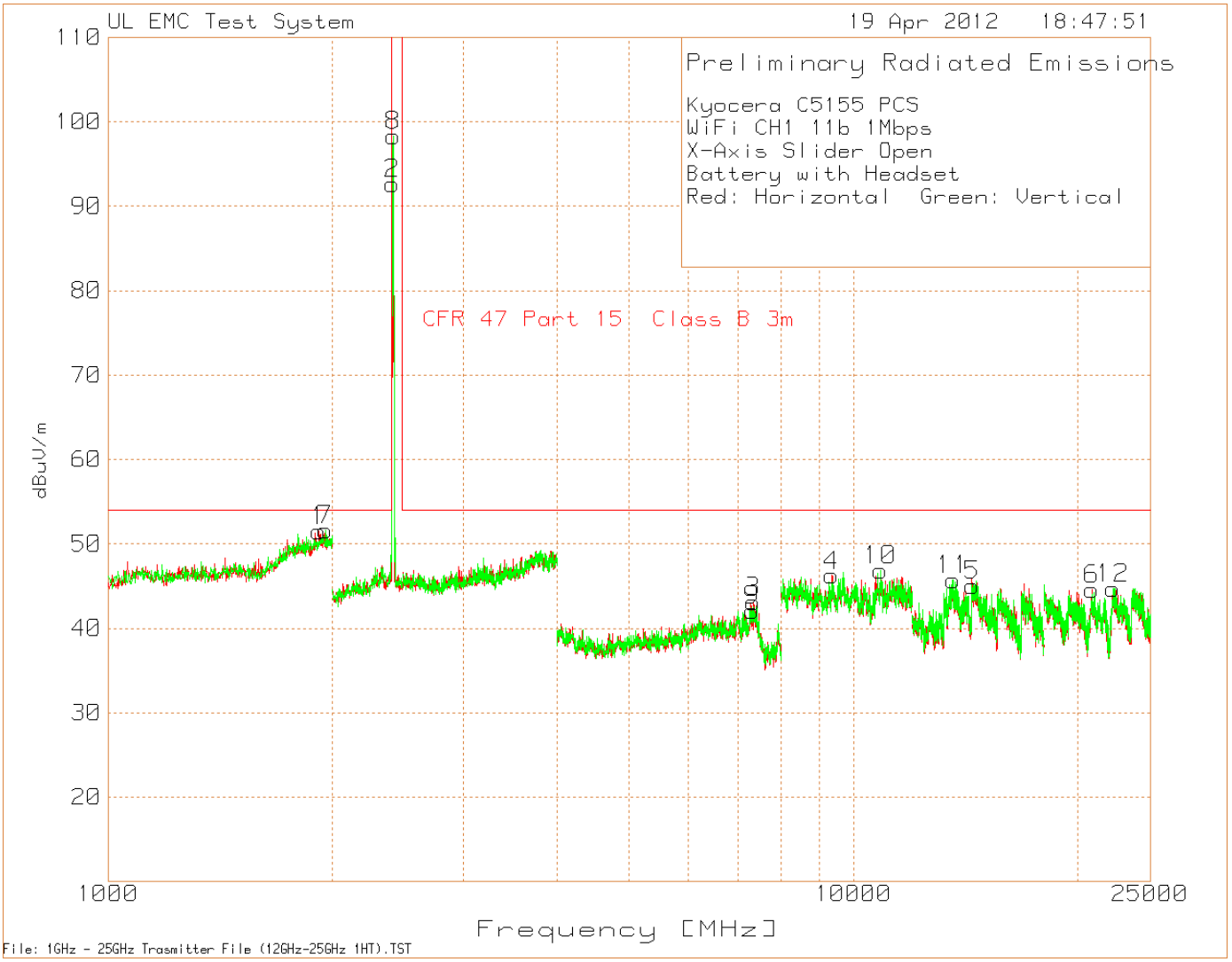


Table 6 Radiated Emissions Data Points X-Axis

Kyocera C5155 PCS
WiFi CH1 11b 1Mbps
X-Axis Slider Open
Battery with 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
1919.84	20.27	PK	27.4	3.83	51.5	54	-2.5	150	Horz
2410.41	66.93	PK	21.8	3.95	92.68	-	-	99	Horz
7335.557	58.81	PK	30.7	-46.4	43.11	54	-10.89	150	Horz
9355.57	59.68	PK	36.4	-49.84	46.24	54	-7.76	99	Horz
14448.98	44.99	PK	39.8	-39.72	45.07	54	-8.93	100	Horz
20921.57	60.37	PK	40.1	-55.87	44.6	54	-9.4	100	Horz
1959.92	20.43	PK	27.4	3.75	51.58	54	-2.42	100	Vert
2412.412	72.61	PK	21.8	3.87	98.28	-	-	150	Vert
7308.873	57.82	PK	30.5	-46.19	42.13	54	-11.87	101	Vert
10879.25	57.83	PK	36.3	-47.29	46.84	54	-7.16	150	Vert
13599.04	47.11	PK	39.8	-41.21	45.7	54	-8.3	100	Vert
22288.52	56.78	PK	40.5	-52.57	44.71	54	-9.29	100	Vert

PK - Peak detector

Figure 7 Radiated Emissions Graph Y-Axis

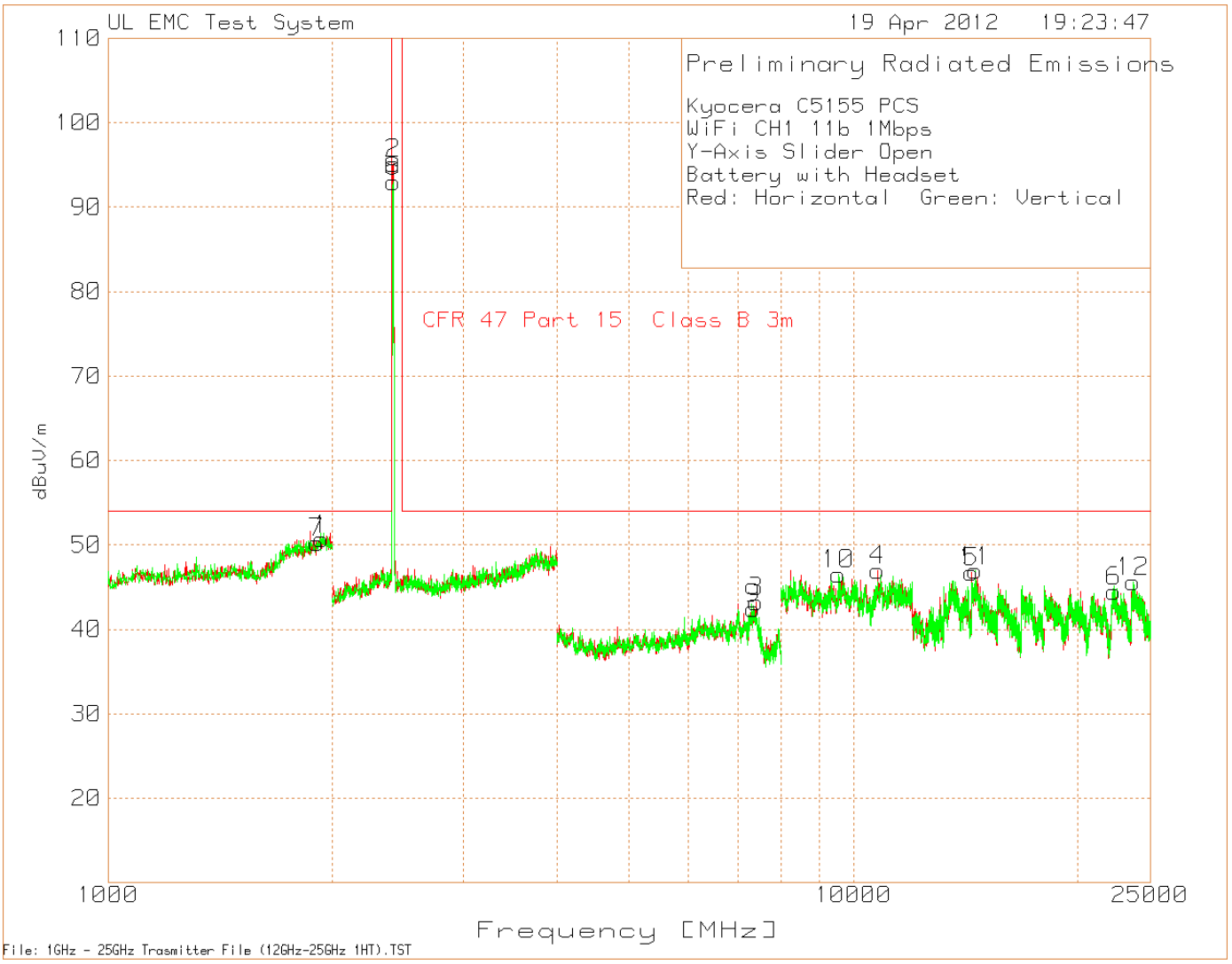


Table 7 Radiated Emissions Data Points Y-Axis

Kyocera C5155 PCS
WiFi CH1 11b 1Mbps
Y-Axis Slider Open
Battery with 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
1933.868	19.29	PK	27.4	3.97	50.66	54	-3.34	100	Horz
2412.412	69.47	PK	21.8	3.87	95.14	-	-	99	Horz
7404.937	59	PK	31.1	-46.85	43.25	54	-10.75	150	Horz
10791.19	58.92	PK	36.4	-48.39	46.93	54	-7.07	99	Horz
14405.76	46.24	PK	39.8	-39.25	46.79	54	-7.21	99	Horz
22364.15	56.45	PK	40.5	-52.5	44.45	54	-9.55	99	Horz
1905.812	19.14	PK	27.4	3.71	50.25	54	-3.75	150	Vert
2412.412	67.32	PK	21.8	3.87	92.99	-	-	101	Vert
7330.22	57.98	PK	30.7	-46.28	42.4	54	-11.6	102	Vert
9558.372	60.09	PK	36.4	-49.92	46.57	54	-7.43	150	Vert
14549.82	45.85	PK	39.8	-38.73	46.92	54	-7.08	101	Vert
23714.29	58.65	PK	40.3	-53.37	45.58	54	-8.42	101	Vert

PK - Peak detector

Figure 8 Radiated Emissions Graph Z-Axis

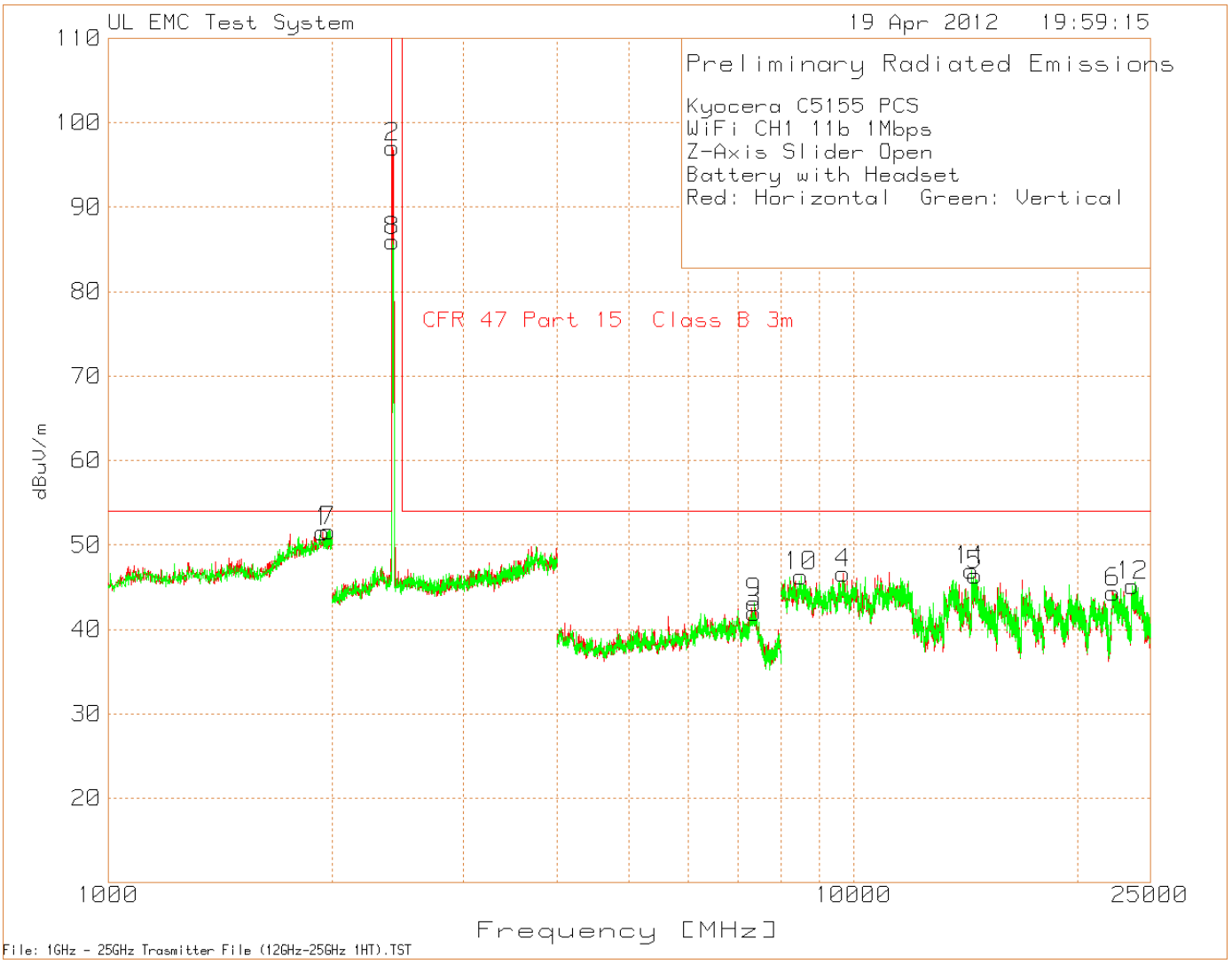


Table 8 Radiated Emissions Data Points Z-Axis

Kyocera C5155 PCS
WiFi CH1 11b 1Mbps
Z-Axis Slider Open
Battery with 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	20.18	PK	27.4	3.92	51.5	54	-2.5	101	Horz
2410.41	71.31	PK	21.8	3.95	97.06	-	-	99	Horz
7356.905	57.45	PK	30.9	-46.36	41.99	54	-12.01	99	Horz
9678.452	58.77	PK	36.4	-48.49	46.68	54	-7.32	150	Horz
14569.03	45.2	PK	39.8	-38.58	46.42	54	-7.58	99	Horz
22285.71	56.41	PK	40.5	-52.53	44.38	54	-9.62	99	Horz
1973.948	20.24	PK	27.5	3.85	51.59	54	-2.41	101	Vert
2410.41	60.18	PK	21.8	3.95	85.93	-	-	101	Vert
7359.573	58.65	PK	30.9	-46.41	43.14	54	-10.86	101	Vert
8509.673	59.18	PK	36.7	-49.61	46.27	54	-7.73	101	Vert
14403.36	46.42	PK	39.8	-39.23	46.99	54	-7.01	101	Vert
23689.08	57.78	PK	40.3	-52.92	45.16	54	-8.84	101	Vert

PK - Peak detector

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

Figure 9 Radiated Emissions Graph X-Axis

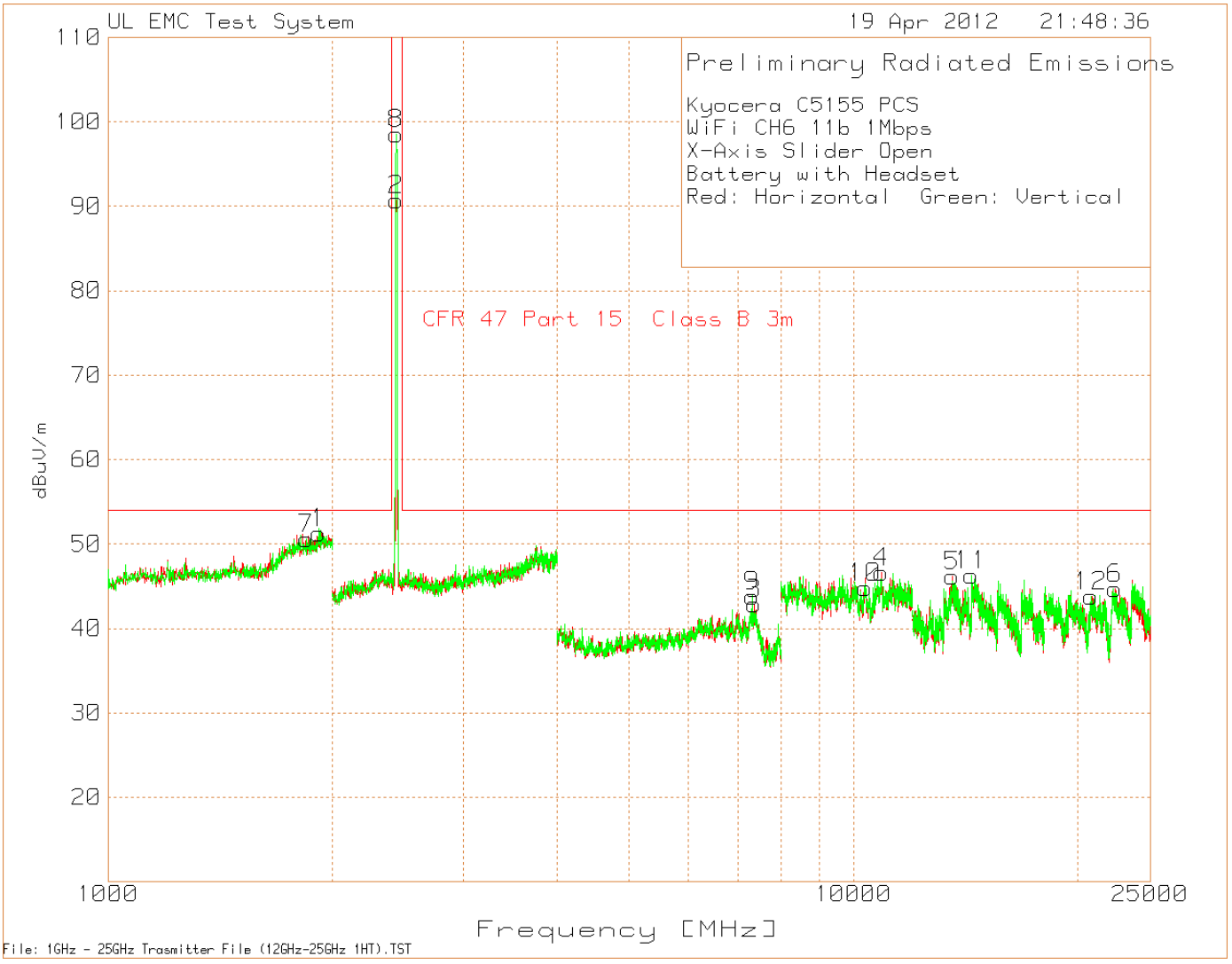


Table 9 Radiated Emissions Data Points X-Axis

Kyocera C5155 PCS
WiFi CH6 11b 1Mbps
X-Axis Slider Open
Battery with 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
1915.832	20.14	PK	27.4	3.78	51.32	54	-2.68	150	Horz
2435.435	64.76	PK	21.9	4.06	90.72	-	-	100	Horz
7354.236	58.33	PK	30.9	-46.31	42.92	54	-11.08	100	Horz
10900.6	57.63	PK	36.3	-47.34	46.59	54	-7.41	100	Horz
13575.03	47.06	PK	39.8	-40.65	46.21	54	-7.79	100	Horz
22428.57	56.37	PK	40.5	-52.11	44.76	54	-9.24	100	Horz
1847.695	19.51	PK	27.2	3.9	50.61	54	-3.39	100	Vert
2438.438	72.5	PK	21.9	4.18	98.58	-	-	100	Vert
7311.541	59.66	PK	30.5	-46.35	43.81	54	-10.19	100	Vert
10364.24	56.53	PK	36.2	-47.94	44.79	54	-9.21	100	Vert
14400.96	45.66	PK	39.8	-39.21	46.25	54	-7.75	100	Vert
20834.73	59.86	PK	40.2	-56.23	43.83	54	-10.17	100	Vert

PK - Peak detector

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

Figure 10 Radiated Emissions Graph X-Axis

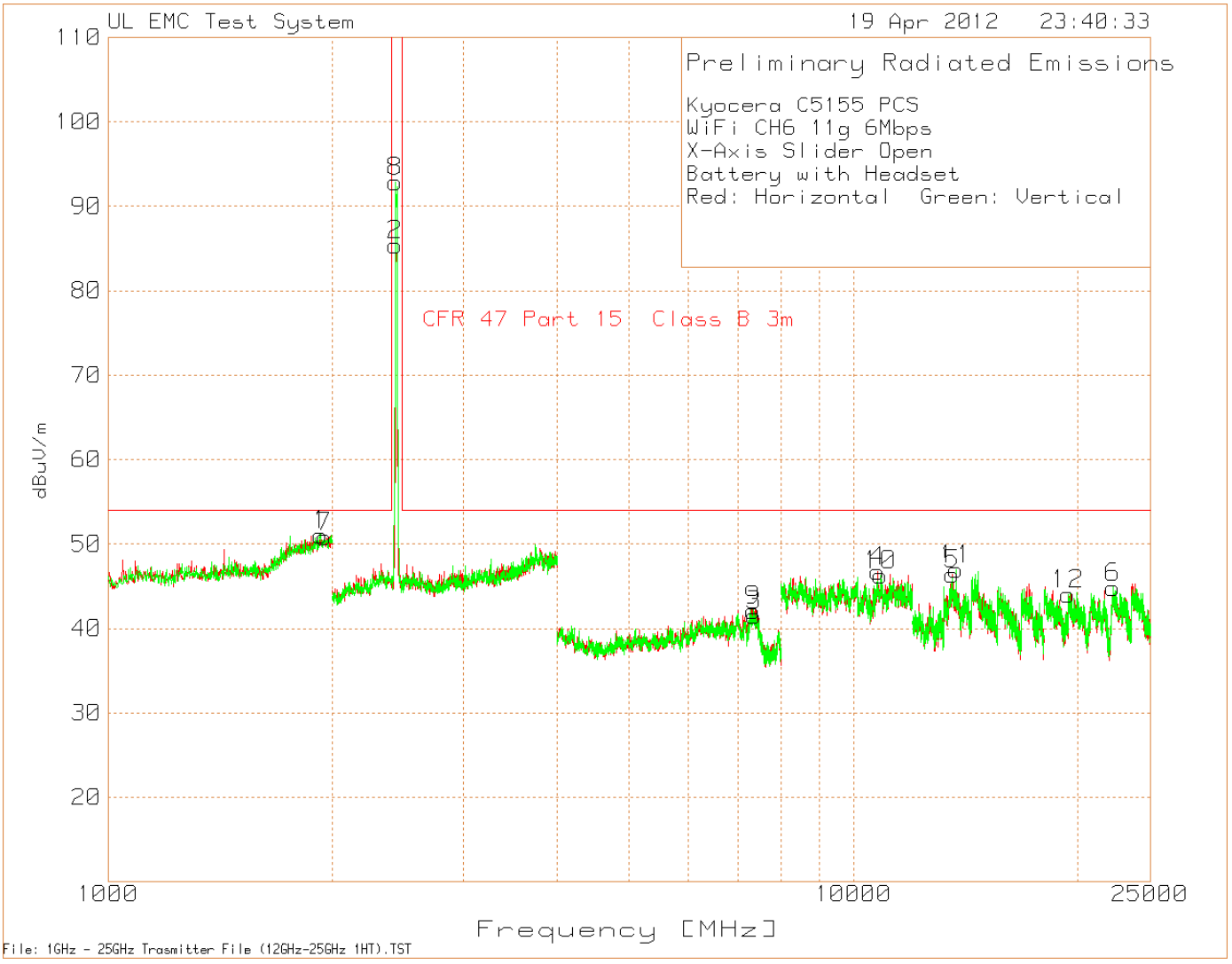


Table 10 Radiated Emissions Data Points X-Axis

Kyocera C5155 PCS
WiFi CH6 11g 6Mbps
X-Axis Slider Open
Battery with 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	19.72	PK	27.4	3.94	51.06	54	-2.94	100	Horz
2428.428	59.56	PK	21.9	3.92	85.38	-	-	100	Horz
7351.568	57.13	PK	30.8	-46.38	41.55	54	-12.45	150	Horz
10764.51	58.54	PK	36.4	-48.19	46.75	54	-7.25	100	Horz
13560.62	47.32	PK	39.8	-40.75	46.37	54	-7.63	100	Horz
22308.12	57.03	PK	40.5	-52.71	44.82	54	-9.18	100	Horz
1951.904	19.61	PK	27.4	3.81	50.82	54	-3.18	100	Vert
2432.432	67.02	PK	21.9	3.99	92.91	-	-	102	Vert
7330.22	57.67	PK	30.7	-46.28	42.09	54	-11.91	101	Vert
10884.59	57.27	PK	36.3	-47.26	46.31	54	-7.69	102	Vert
13733.49	47.14	PK	39.8	-39.97	46.97	54	-7.03	101	Vert
19428.57	64.82	PK	40.3	-61.12	44	54	-10	101	Vert

PK - Peak detector

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

Figure 11 Radiated Emissions Graph X-Axis

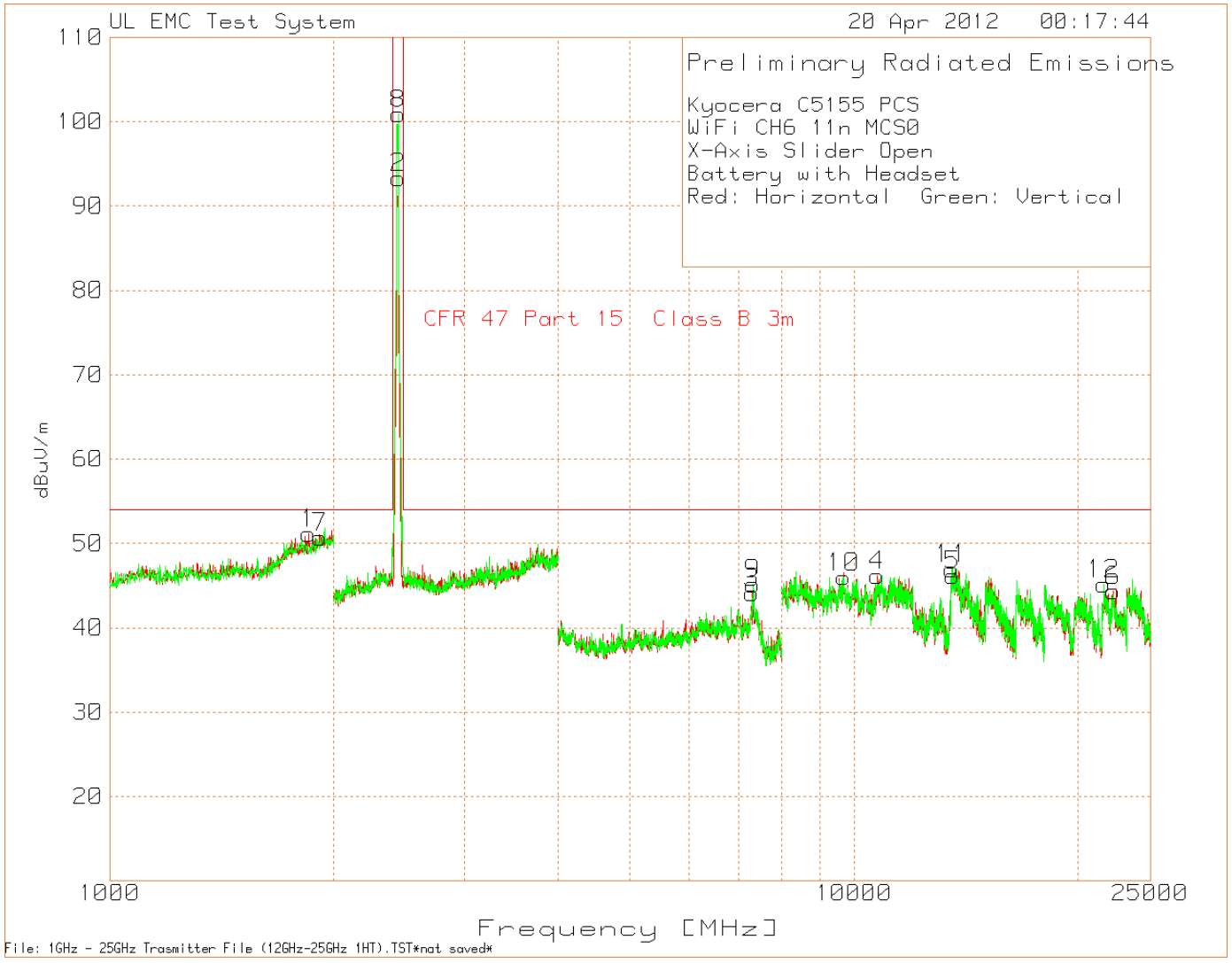


Table 11 Radiated Emissions Data Points X-Axis

Kyocera C5155 PCS
WiFi CH6 11n MCS0
X-Axis Slider Open
Battery with 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
1851.703	20.07	PK	27.2	3.86	51.13	54	-2.87	101	Horz
2444.444	67.02	PK	21.9	4.41	93.33	-	-	100	Horz
7300.867	59.29	PK	30.5	-45.68	44.11	54	-9.89	100	Horz
10740.49	58.77	PK	36.4	-48.99	46.18	54	-7.82	99	Horz
13572.79	47.01	PK	39.8	-40.62	46.19	54	-7.81	99	Horz
22296.65	56.53	PK	40.5	-52.69	44.34	54	-9.66	99	Horz
1919.84	19.51	PK	27.4	3.83	50.74	54	-3.26	150	Vert
2440.44	74.72	PK	21.9	4.25	100.87	-	-	101	Vert
7308.873	60.84	PK	30.5	-46.19	45.15	54	-8.85	100	Vert
9675.784	58.19	PK	36.4	-48.58	46.01	54	-7.99	100	Vert
13533.77	48.47	PK	39.8	-41.32	46.95	54	-7.05	100	Vert
21669.84	58.83	PK	40.4	-54.07	45.16	54	-8.84	100	Vert

PK - Peak detector

Figure 12 Radiated Emissions Graph Y-Axis

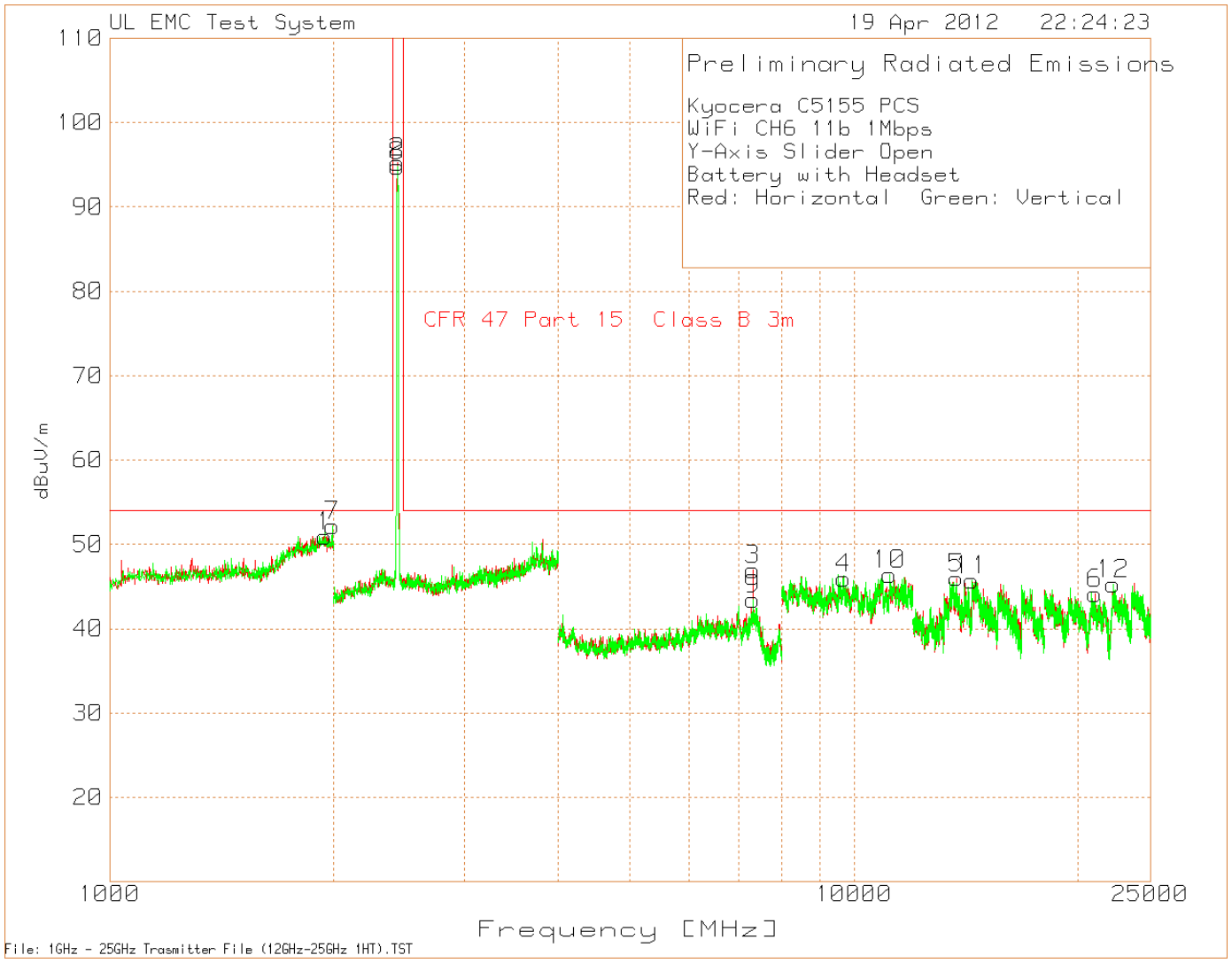


Table 12 Radiated Emissions Data Points Y-Axis

Kyocera C5155 PCS
WiFi CH6 11b 1Mbps
Y-Axis Slider Open
Battery with 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
1947.896	19.64	PK	27.4	3.86	50.9	54	-3.1	100	Horz
2435.435	69.3	PK	21.9	4.06	95.26	-	-	99	Horz
7311.541	62.81	PK	30.5	-46.35	46.96	54	-7.04	100	Horz
9675.784	58.09	PK	36.4	-48.58	45.91	54	-8.09	100	Horz
13750.3	46.27	PK	39.9	-40.16	46.01	54	-7.99	100	Horz
21072.83	59.24	PK	40.1	-55.16	44.18	54	-9.82	100	Horz
1991.984	20.64	PK	27.5	4.01	52.15	54	-1.85	150	Vert
2436.436	68.81	PK	21.9	4.1	94.81	-	-	100	Vert
7314.209	59.22	PK	30.6	-46.31	43.51	54	-10.49	100	Vert
11178.12	56.47	PK	36.7	-46.75	46.42	54	-7.58	100	Vert
14403.36	45.15	PK	39.8	-39.23	45.72	54	-8.28	101	Vert
22285.71	57.35	PK	40.5	-52.53	45.32	54	-8.68	101	Vert

PK - Peak detector

Figure 13 Radiated Emissions Graph Z-Axis

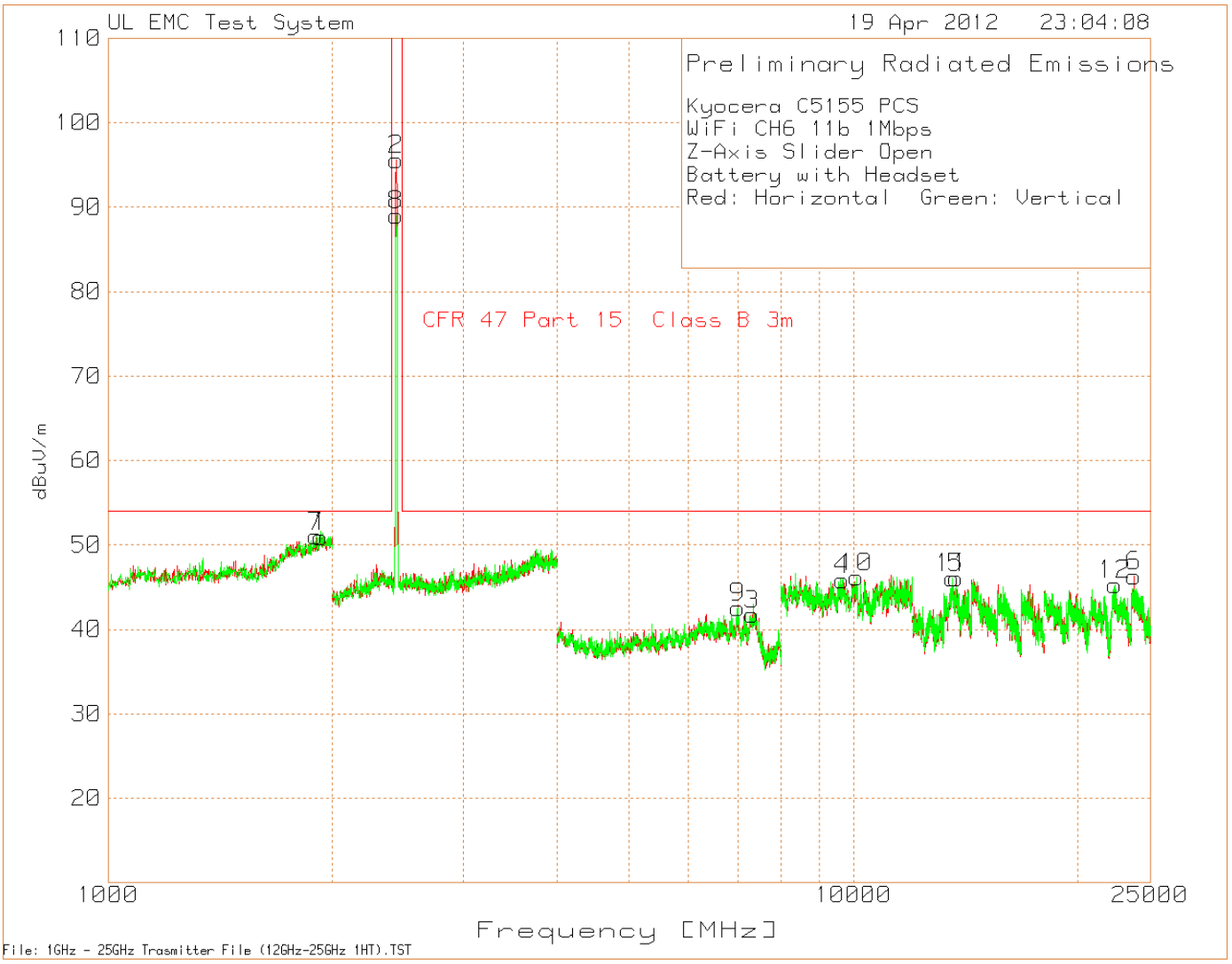


Table 13 Radiated Emissions Data Points Z-Axis

Kyocera C5155 PCS
WiFi CH6 11b 1Mbps
Z-Axis Slider Open
Battery with 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
1927.856	19.6	PK	27.4	3.92	50.92	54	-3.08	101	Horz
2434.434	69.65	PK	21.9	4.02	95.57	-	-	99	Horz
7324.883	57.35	PK	30.6	-46.24	41.71	54	-12.29	99	Horz
9646.431	58.8	PK	36.4	-49.31	45.89	54	-8.11	99	Horz
13726.29	46.16	PK	39.8	-39.85	46.11	54	-7.89	99	Horz
23778.71	60.22	PK	40.3	-54.22	46.3	54	-7.7	99	Horz
1899.8	19.86	PK	27.4	3.74	51	54	-3	150	Vert
2438.438	62.91	PK	21.9	4.18	88.99	-	-	150	Vert
6991.328	58.63	PK	29.3	-45.41	42.52	54	-11.48	150	Vert
10100.07	58.88	PK	36.3	-49.05	46.13	54	-7.87	150	Vert
13582.23	47.03	PK	39.8	-40.77	46.06	54	-7.94	100	Vert
22434.17	56.72	PK	40.5	-51.98	45.24	54	-8.76	100	Vert

PK - Peak detector

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

Figure 14 Radiated Emissions Graph X-Axis

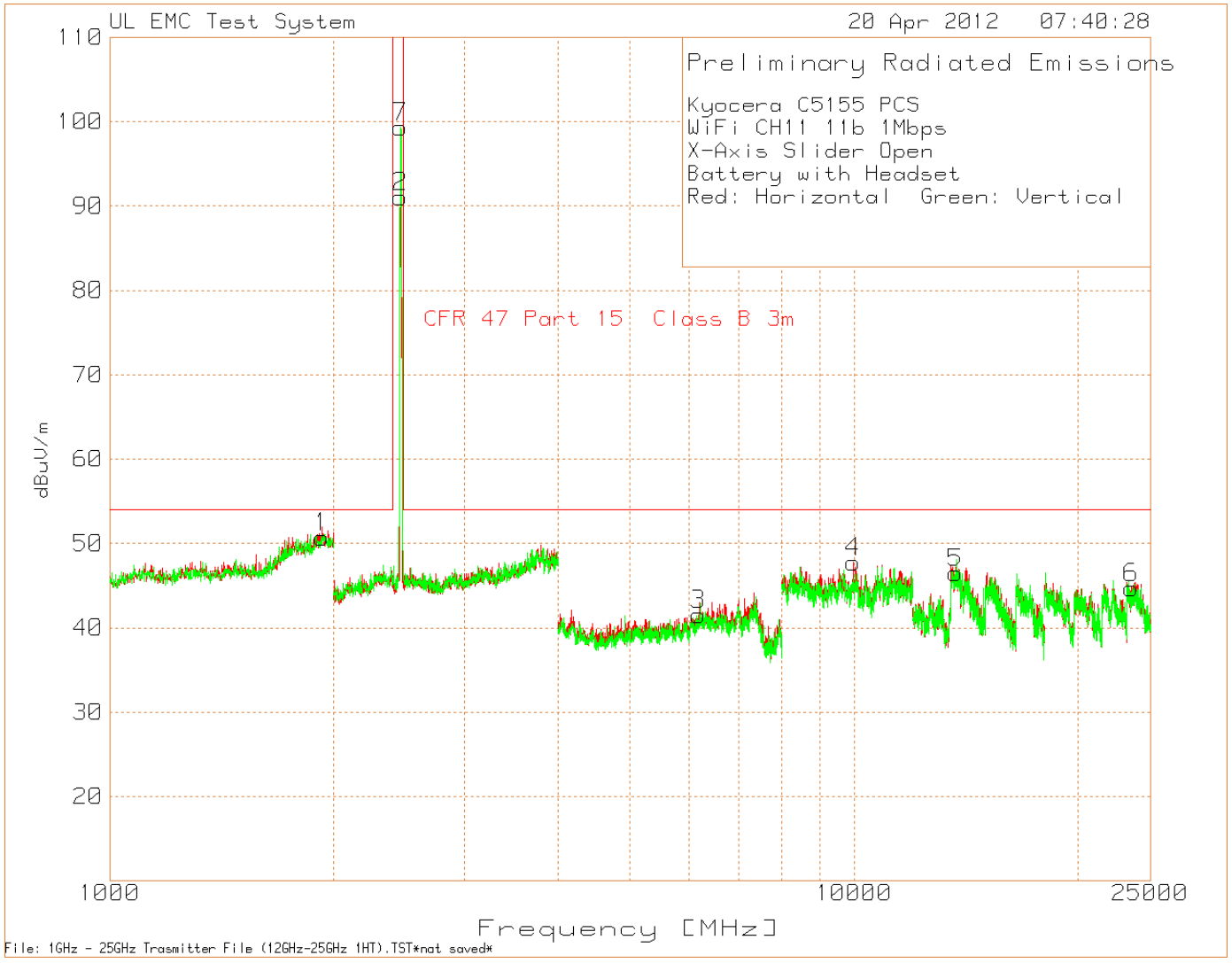


Table 14 Radiated Emissions Data Points X-Axis

Kyocera C5155 PCS
WiFi CH11 11b 1Mbps
X-Axis Slider Open
Battery with 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
1927.856	19.43	PK	27.4	3.92	50.75	54	-3.25	100	Horz
2460.46	64.93	PK	22	4.14	91.07	-	-	100	Horz
6185.457	60.54	PK	29.2	-48.2	41.54	54	-12.46	99	Horz
9977.318	60.76	PK	36.4	-49.41	47.75	54	-6.25	100	Horz
13689.85	47.18	PK	39.8	-40.51	46.47	54	-7.53	100	Horz
23595.8	57.07	PK	40.3	-52.63	44.74	54	-9.26	100	Horz
2460.46	73.19	PK	22	4.14	99.33	-	-	102	Vert

PK - Peak detector

Figure 15 Radiated Emissions Graph Y-Axis

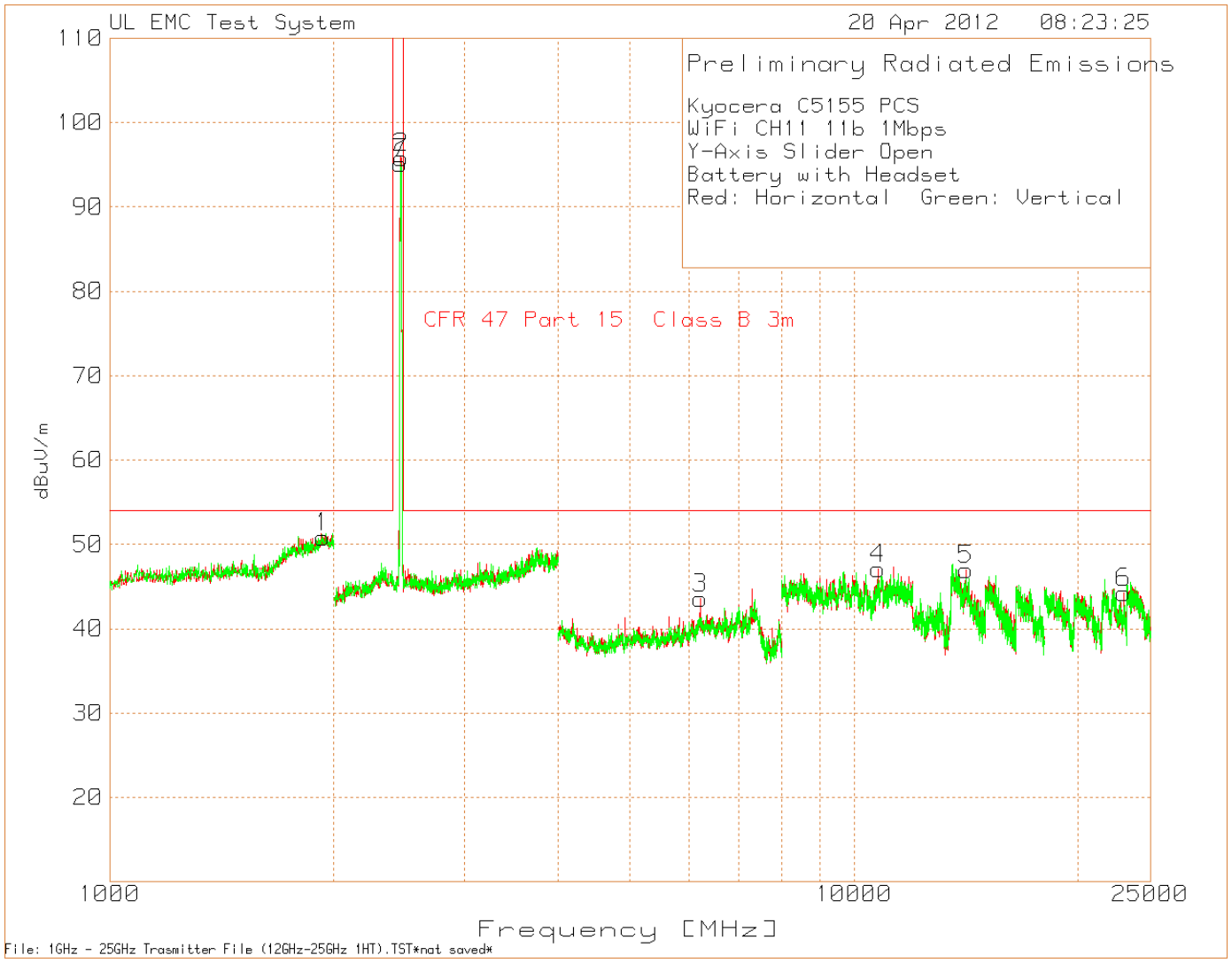


Table 15 Radiated Emissions Data Points Y-Axis

Kyocera C5155 PCS
WiFi CH11 11b 1Mbps
Y-Axis Slider Open
Battery with 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
1935.872	19.49	PK	27.4	3.97	50.86	54	-3.14	100	Horz
2462.462	69.71	PK	22	4.09	95.8	-	-	100	Horz
6217.478	62.1	PK	29.2	-47.76	43.54	54	-10.46	99	Horz
10761.84	58.95	PK	36.4	-48.28	47.07	54	-6.93	100	Horz
14125.06	46.14	PK	39.9	-39.05	46.99	54	-7.01	99	Horz
23028.51	55.09	PK	40.3	-51.15	44.24	54	-9.76	99	Horz
2460.46	68.98	PK	22	4.14	95.12	-	-	150	Vert

PK - Peak detector

Figure 16 Radiated Emissions Graph Z-Axis

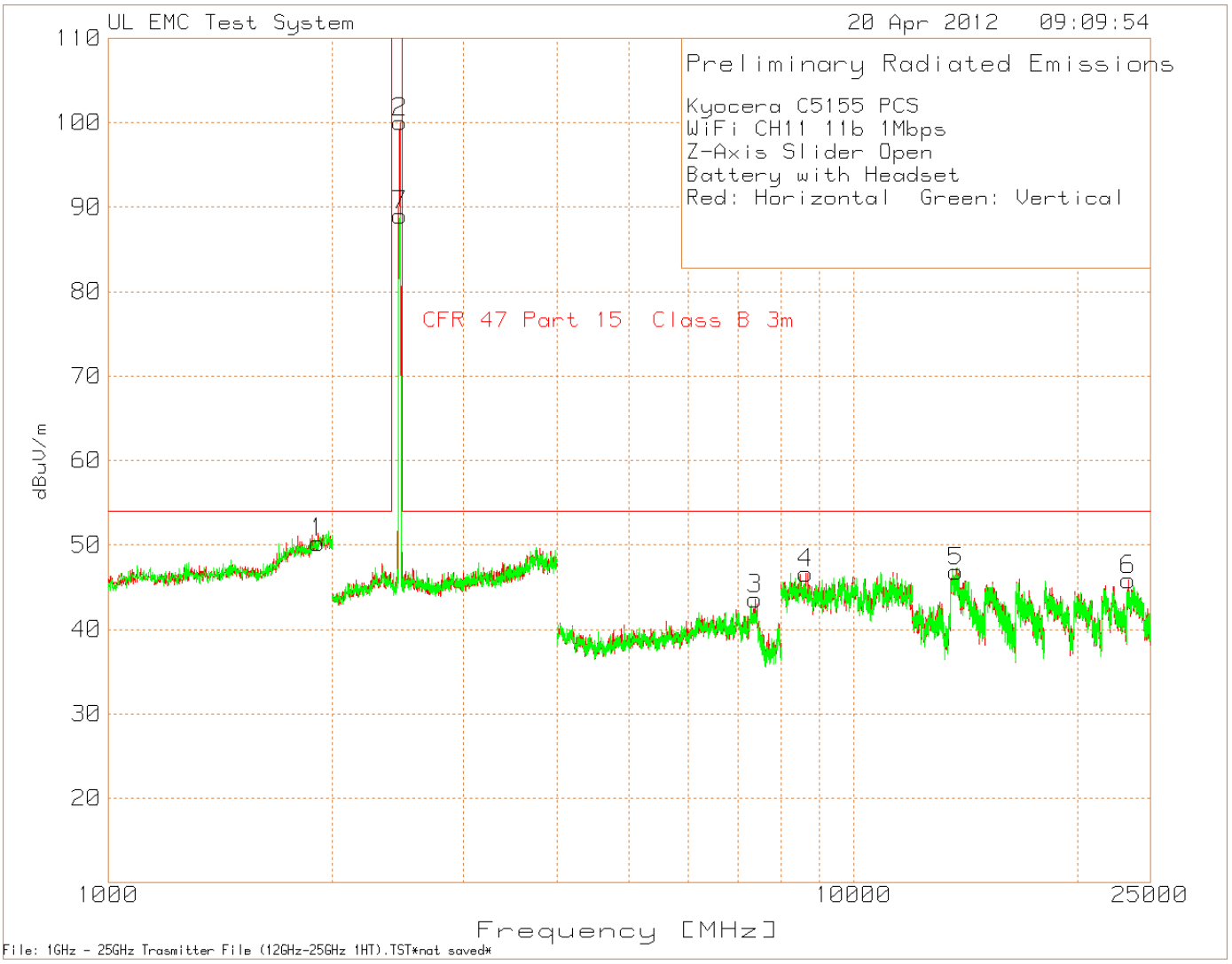


Table 16 Radiated Emissions Data Points Z-Axis

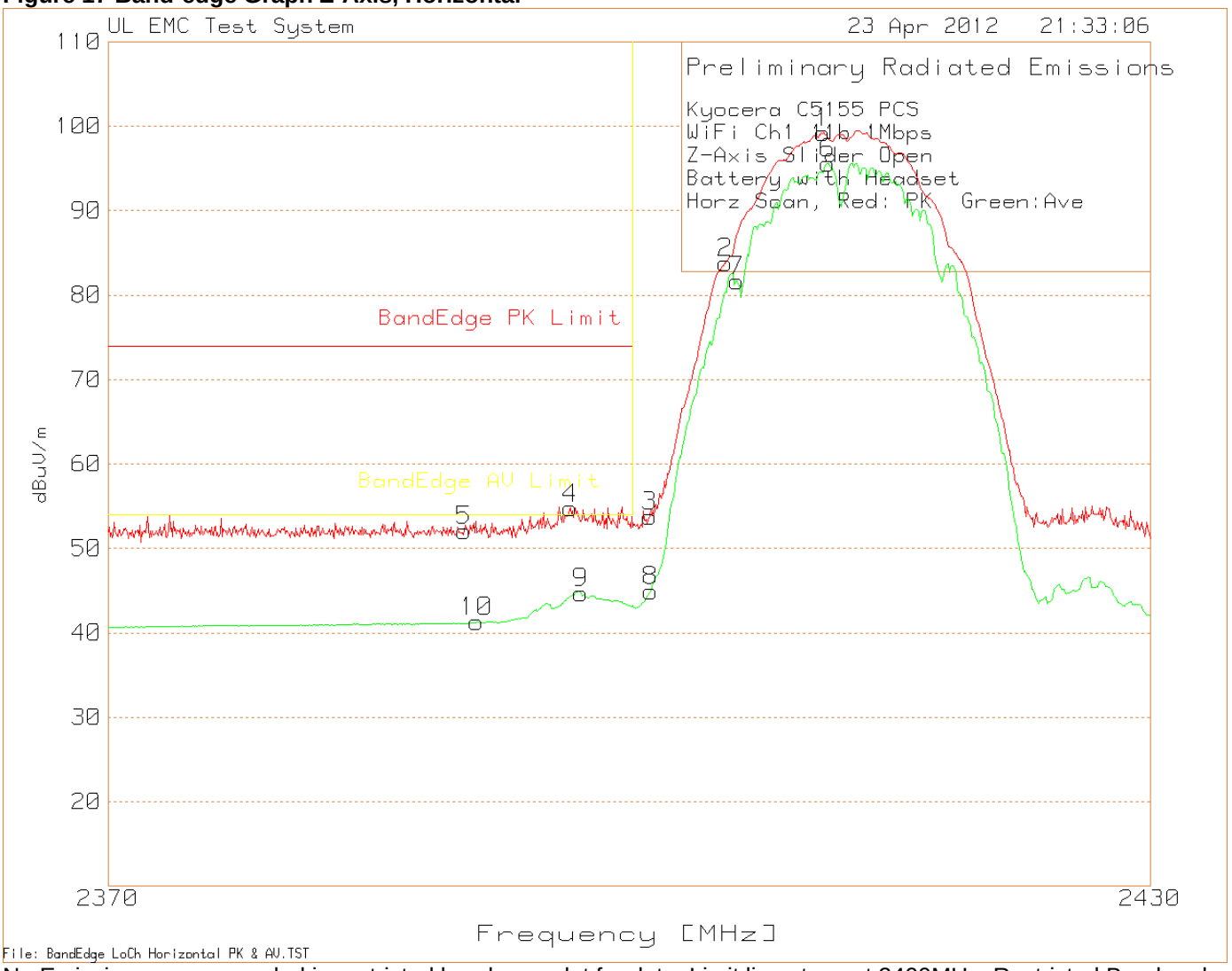
Kyocera C5155 PCS
WiFi CH11 11b 1Mbps
Z-Axis Slider Open
Battery with Headset
RED: Horizontal GRN: Vertical

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
1909.82	19.14	PK	27.4	3.73	50.27	54	-3.73	100	Horz
2462.462	73.98	PK	22	4.09	100.07	-	-	100	Horz
7380.921	58.88	PK	31.1	-46.4	43.58	54	-10.42	100	Horz
8629.753	60.24	PK	36.4	-49.99	46.65	54	-7.35	99	Horz
13731.87	46.88	PK	39.8	-39.87	46.81	54	-7.19	100	Horz
23392.7	57.3	PK	40.3	-51.77	45.83	54	-8.17	100	Horz
2462.462	62.91	PK	22	4.09	89	-	-	100	Vert

PK - Peak detector

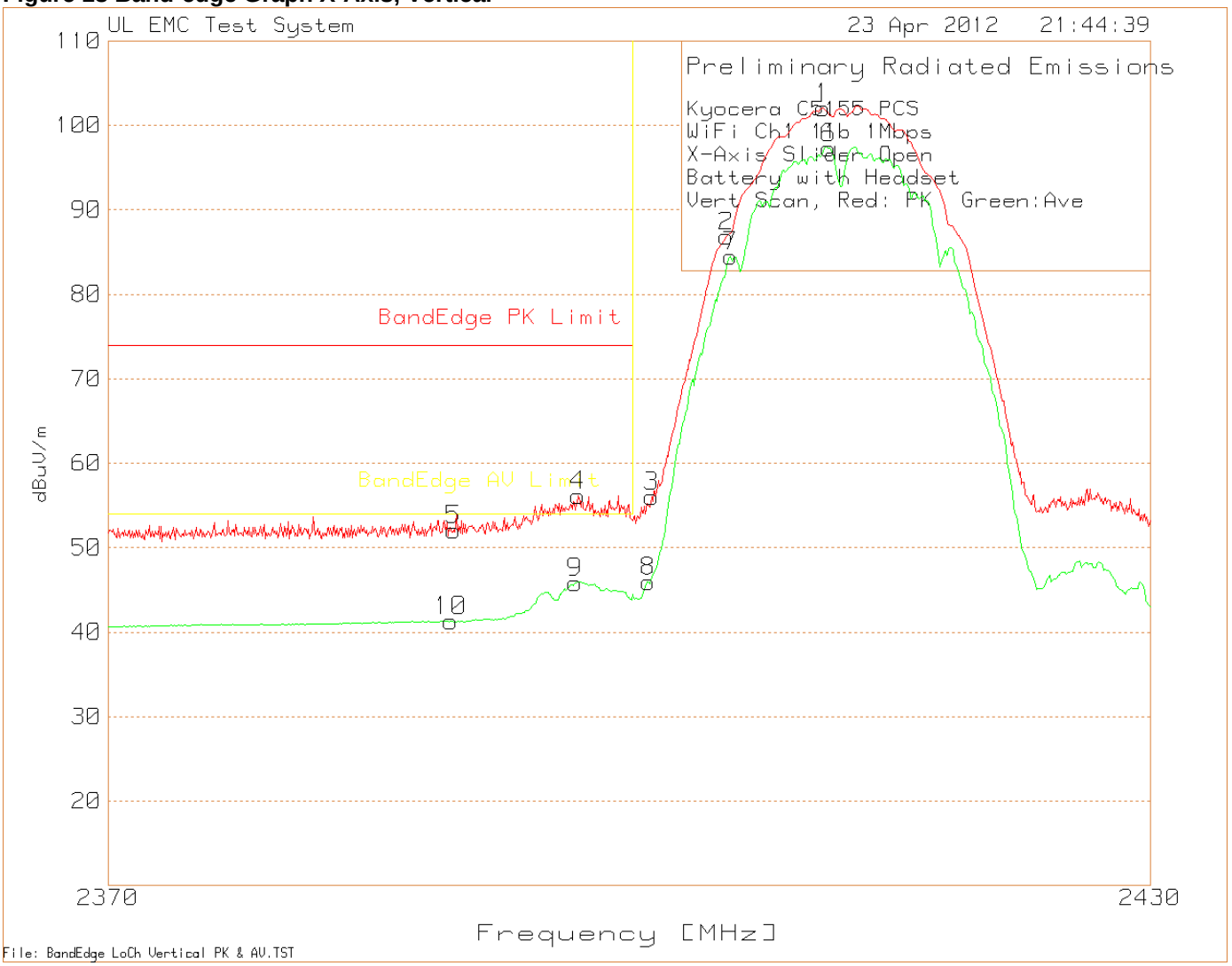
4.2.6 Band-edge, 802.11b, 1Mbps, Low Channel

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

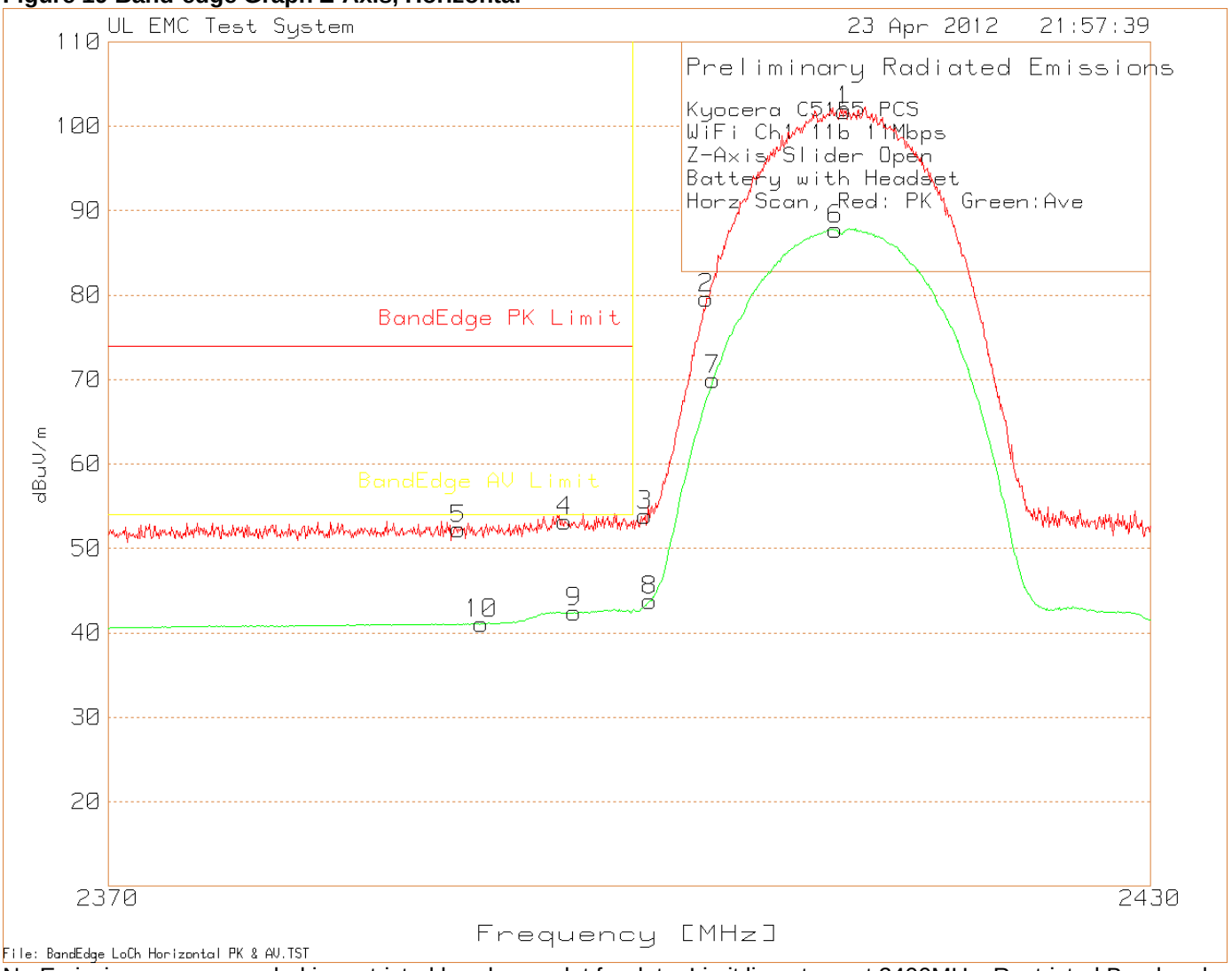
Figure 18 Band-edge Graph X-Axis, Vertical



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

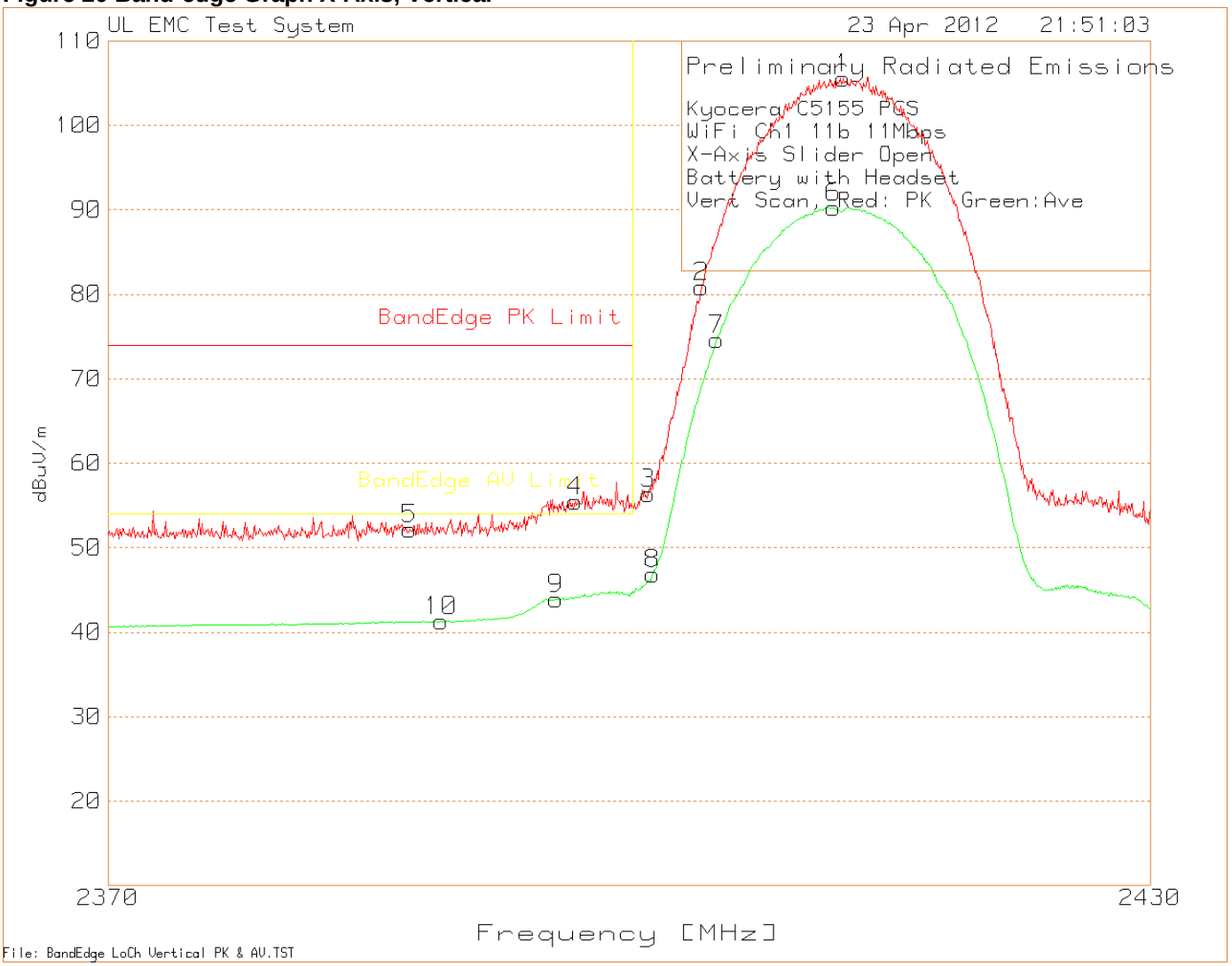
4.2.7 Band-edge, 802.11b, 11Mbps, Low Channel

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

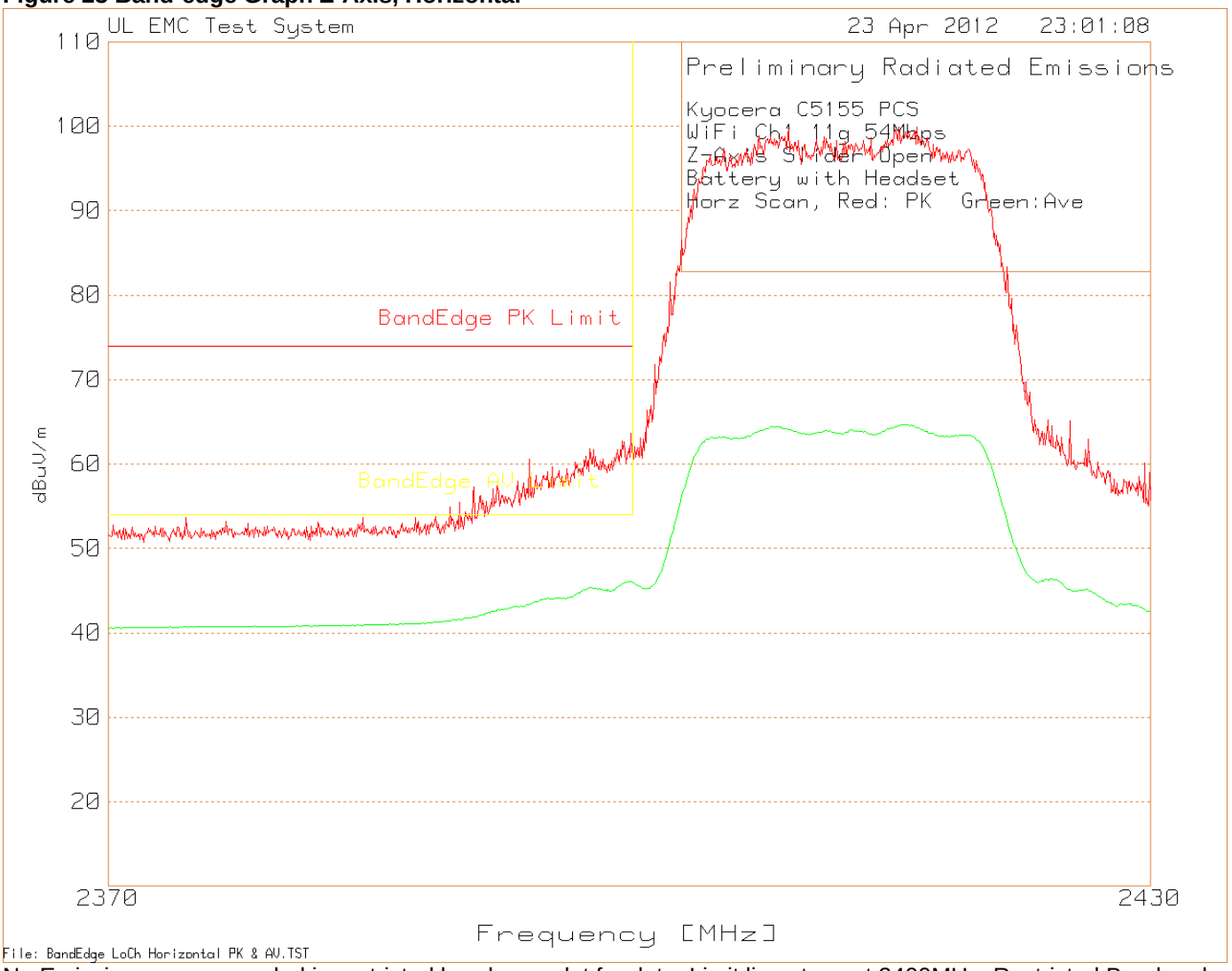
No Emissions were recorded in restricted band, see plot for data. Limit line stops at 2400MHz. Restricted Band ends 2390MHz

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

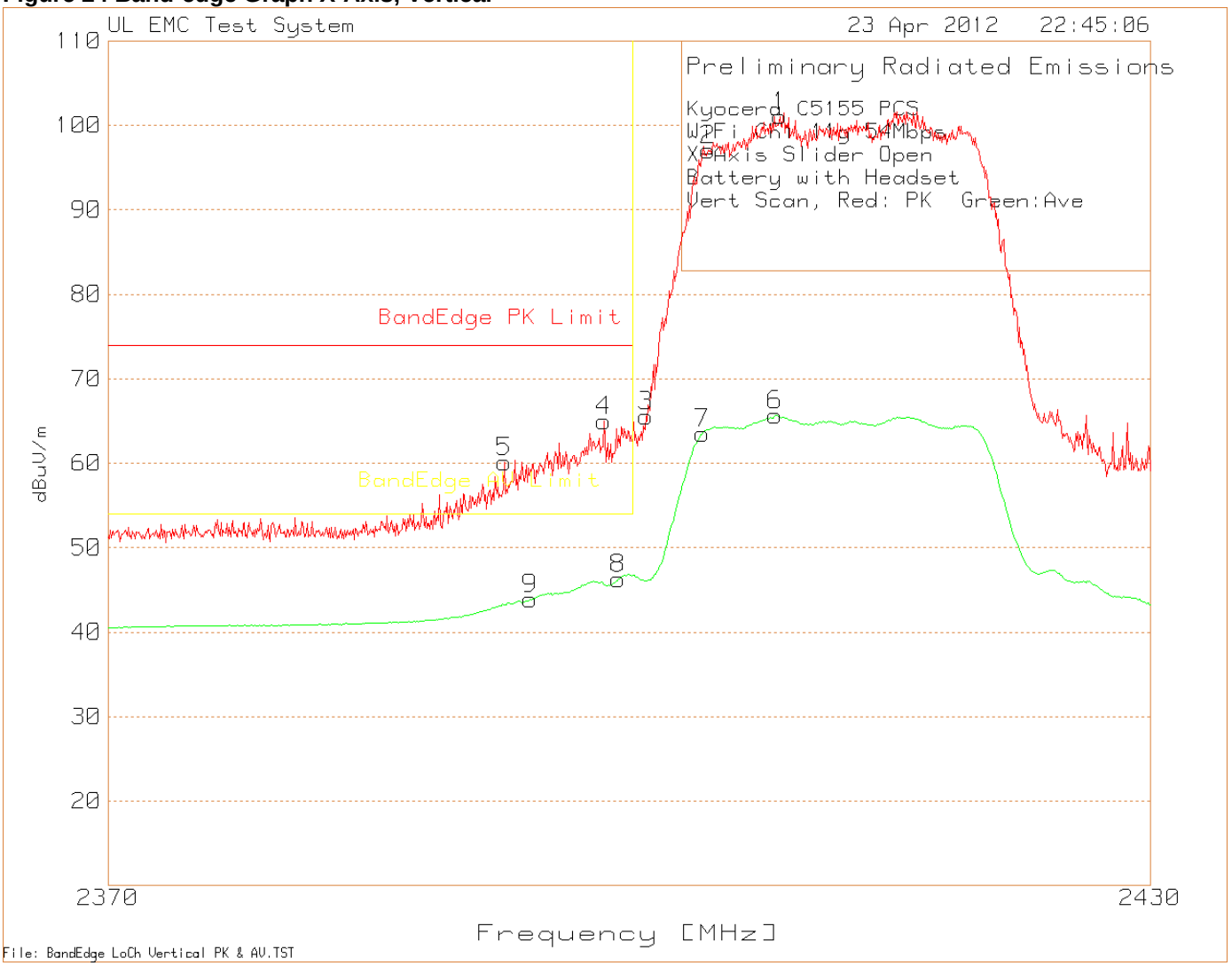
4.2.9 Band-edge, 802.11g, 54Mbps, Low Channel

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

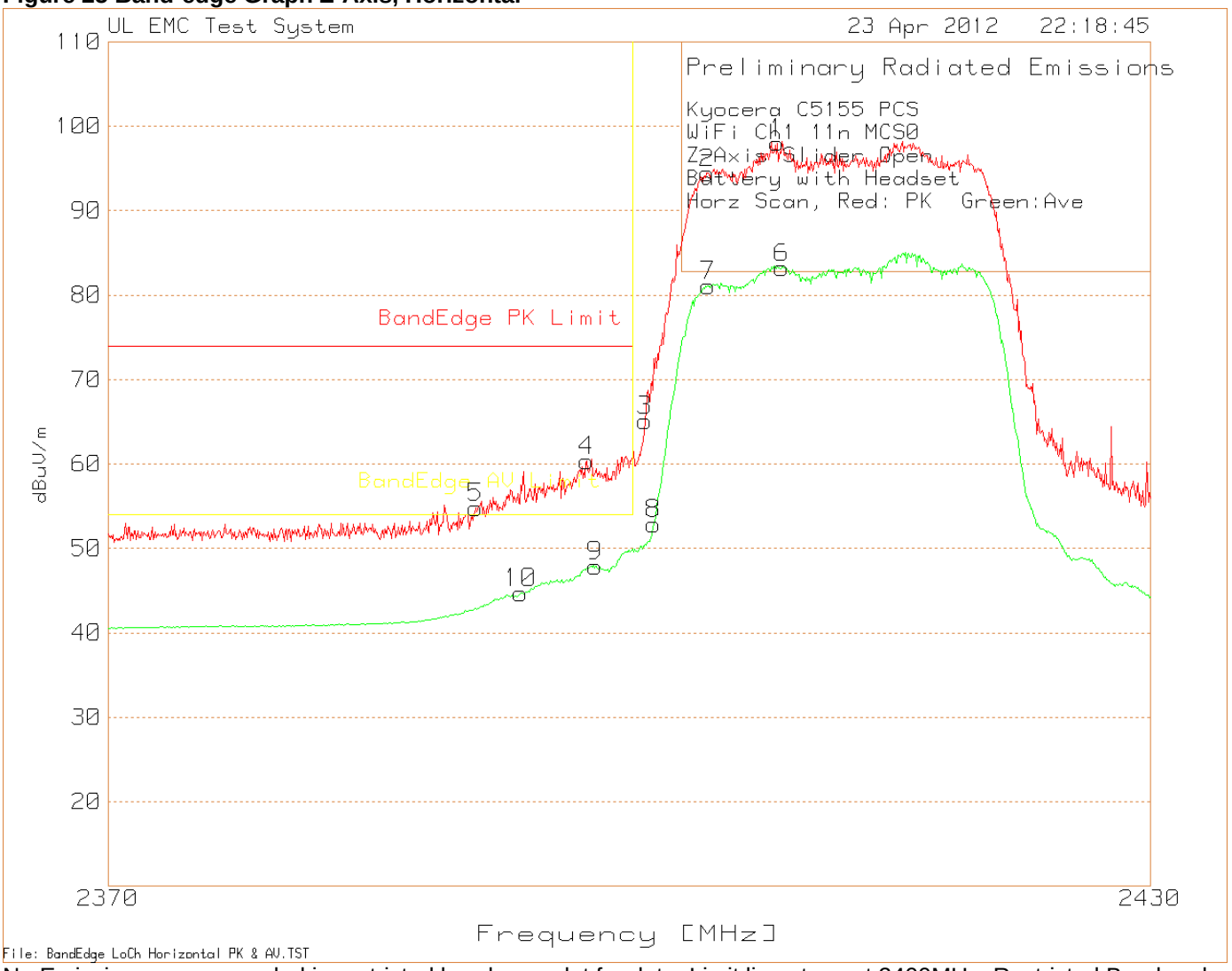
Figure 24 Band-edge Graph X-Axis, Vertical



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

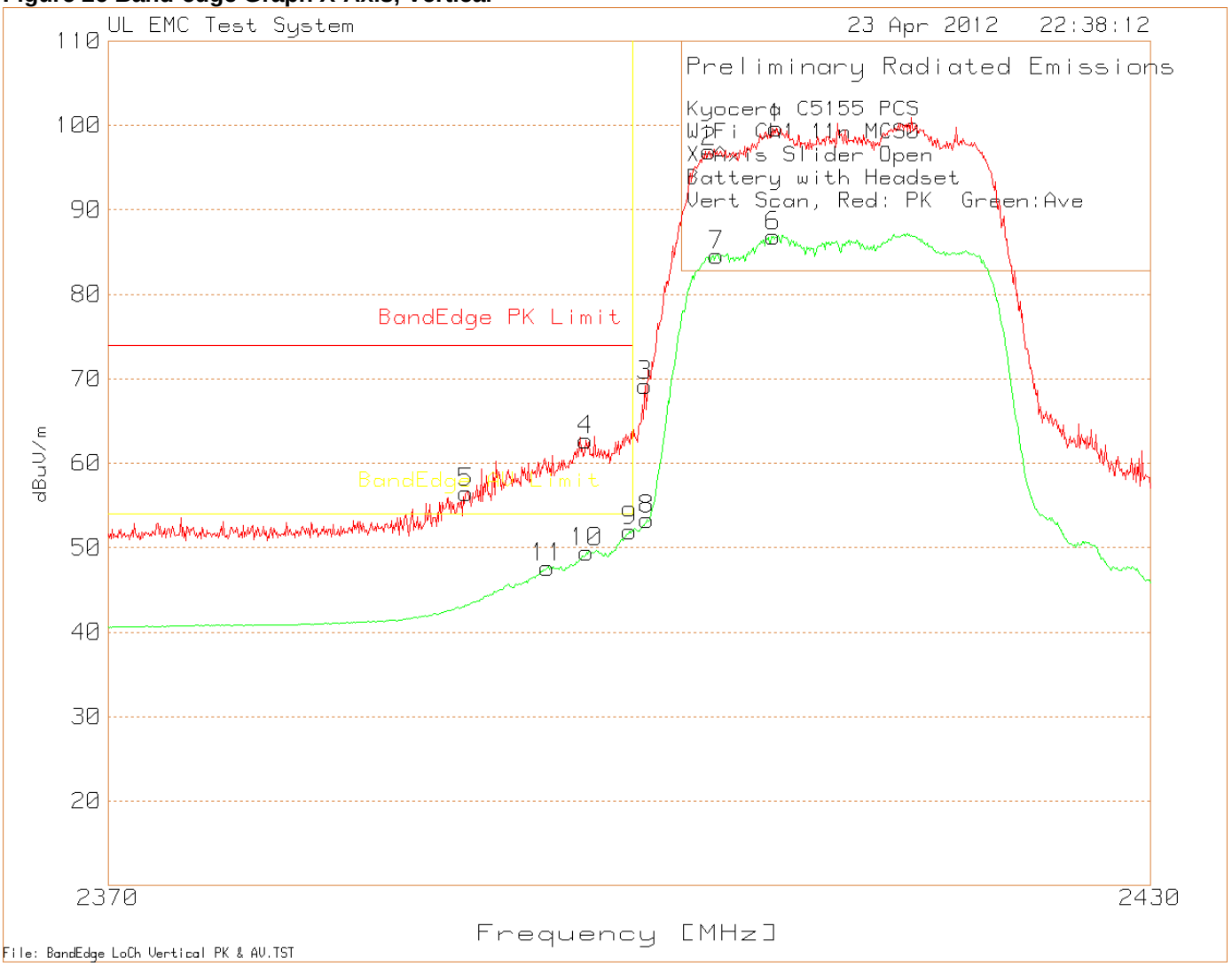
4.2.10 Band-edge, 802.11n, MCS0, Low Channel

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

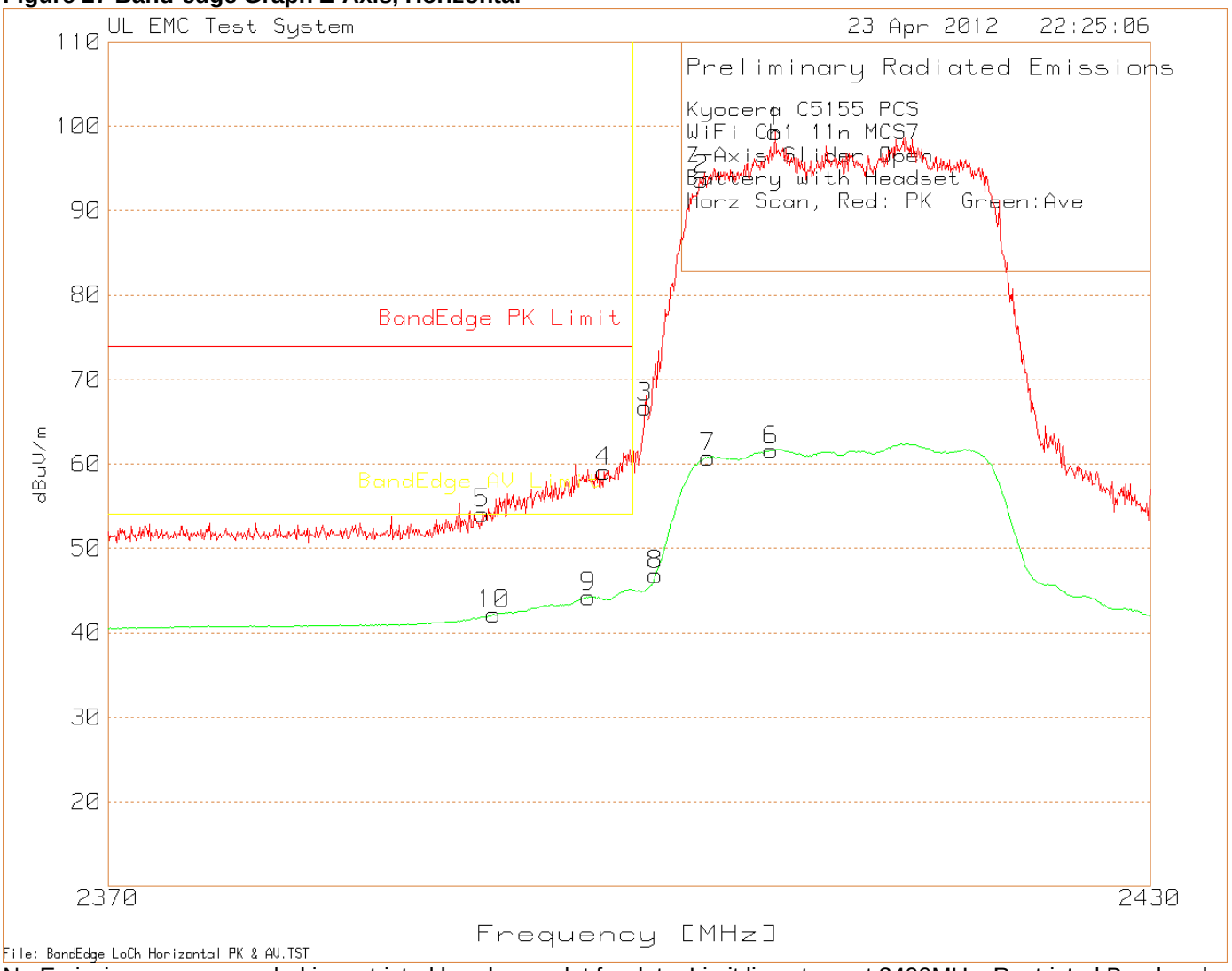
Figure 26 Band-edge Graph X-Axis, Vertical



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

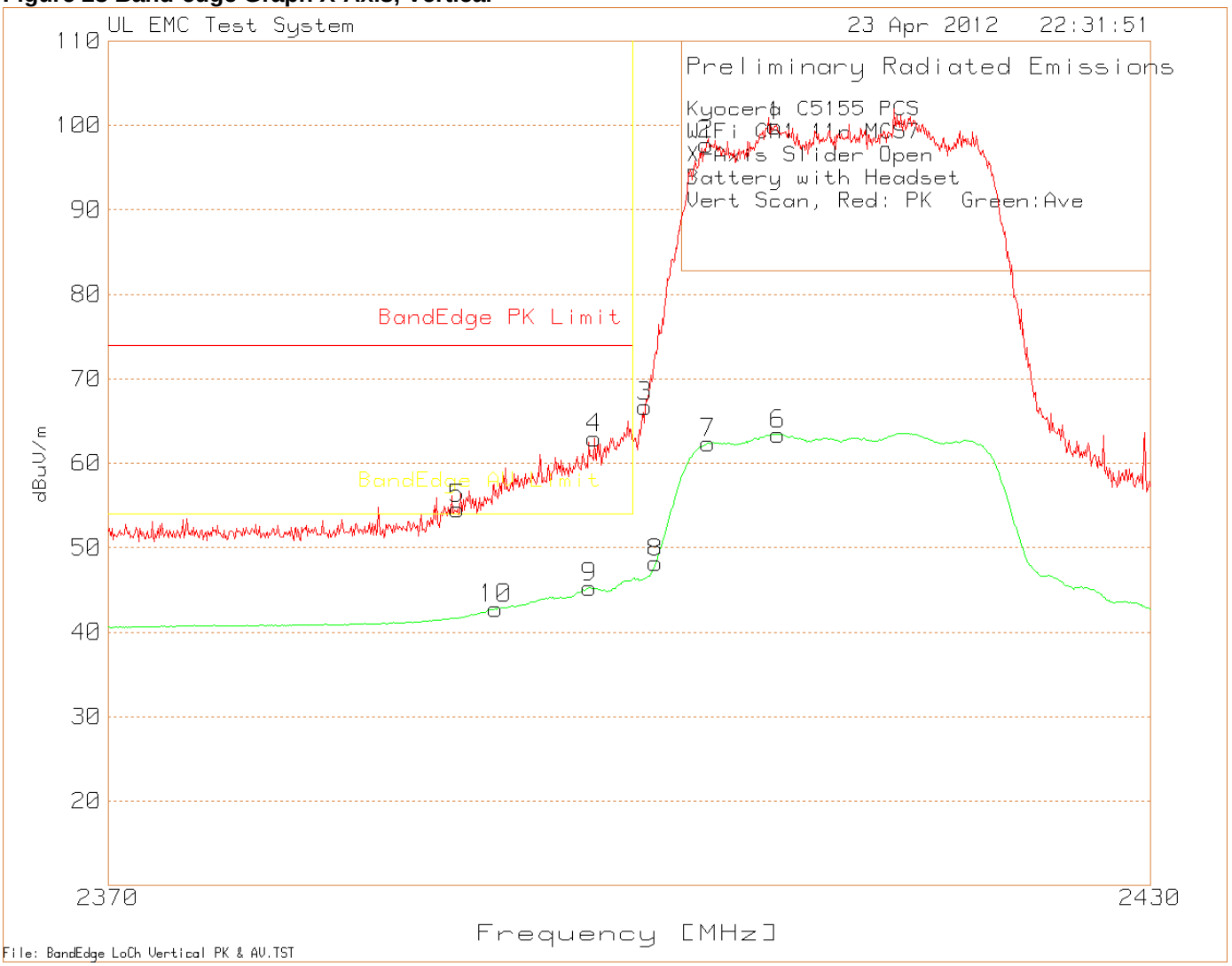
4.2.11 Band-edge, 802.11n, MCS7, Low Channel

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

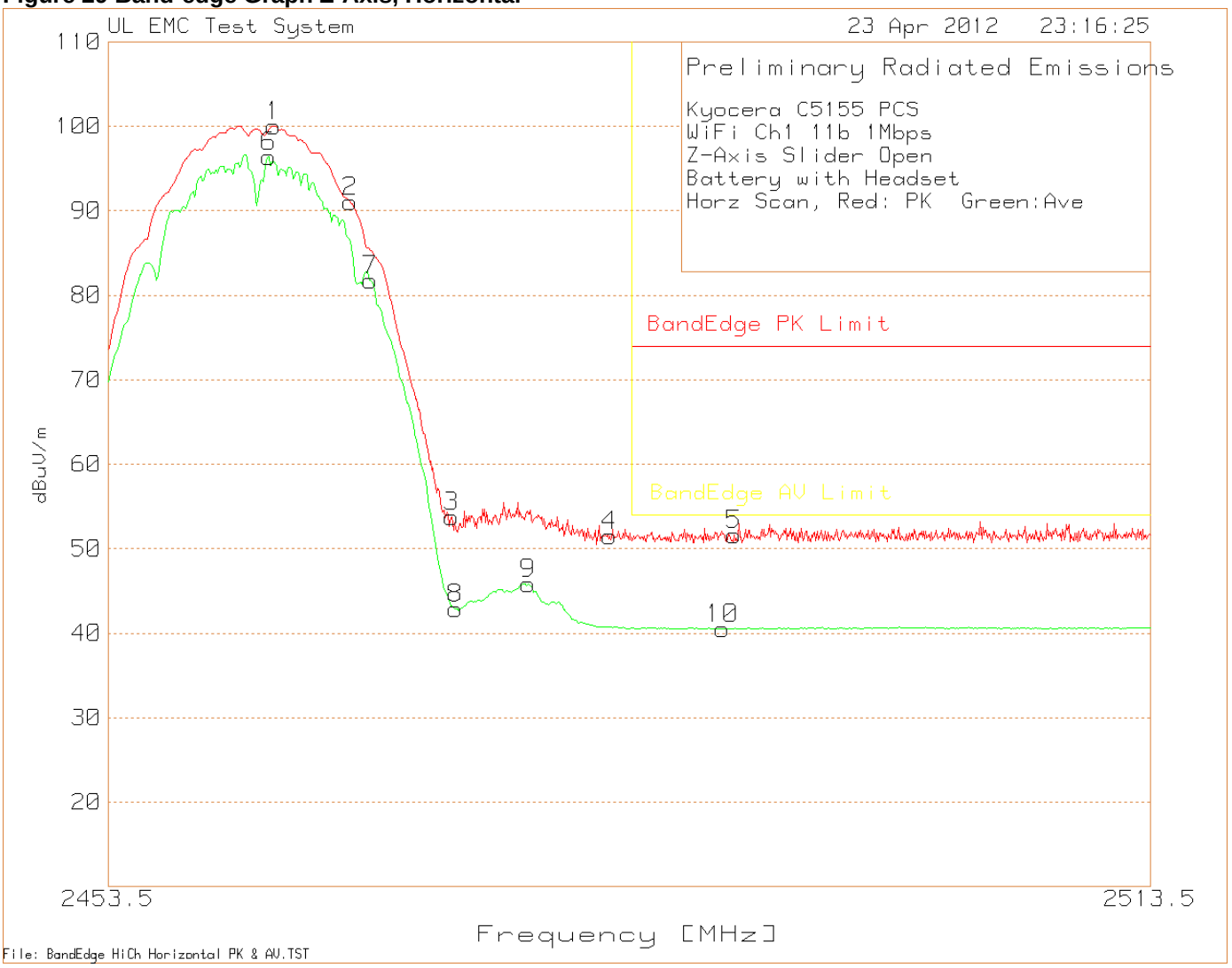


Table 17 Band-edge Data Z-Axis, Horizontal

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

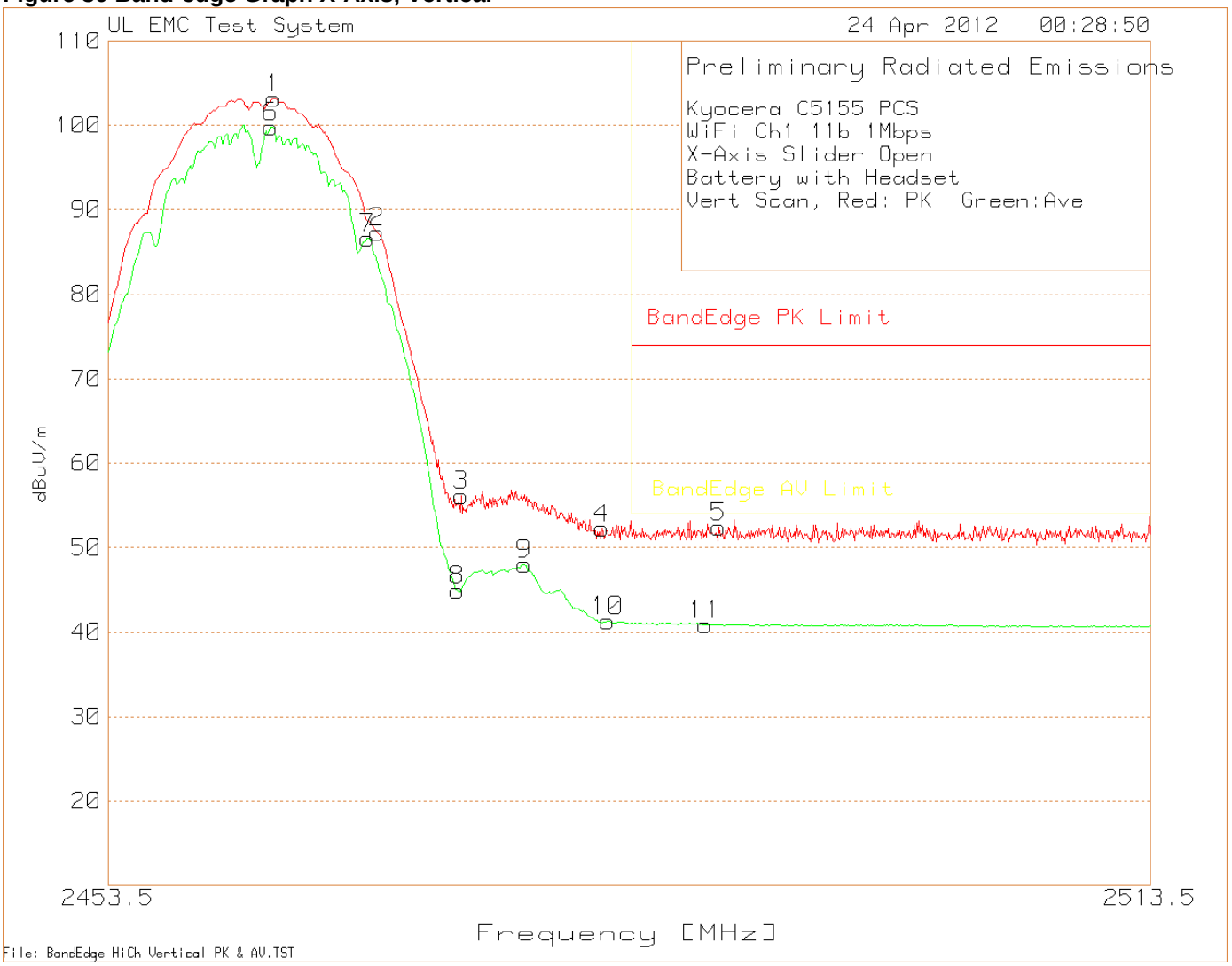


Table 18 Band-edge Data X-Axis, Vertical

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

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

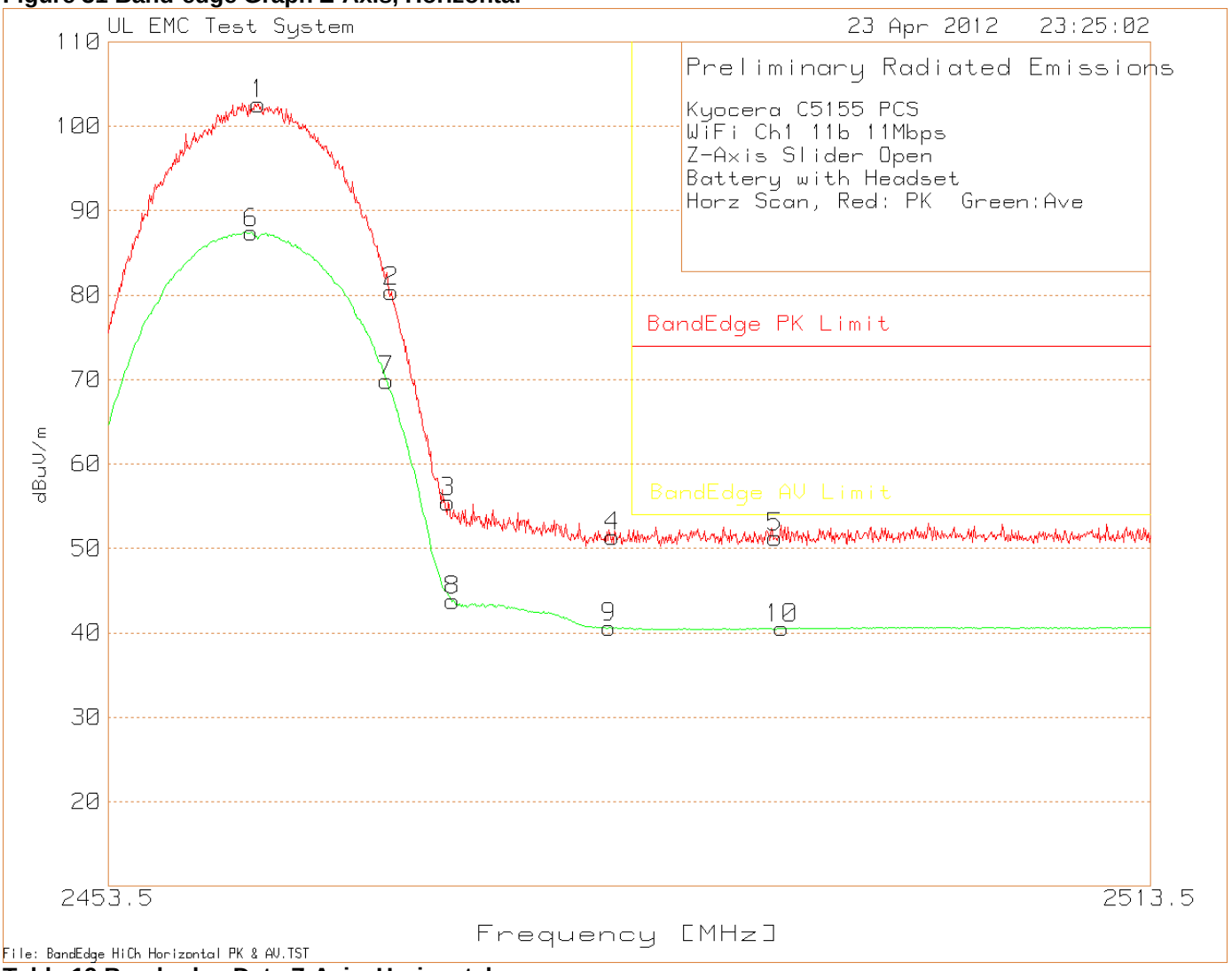


Table 19 Band-edge Data Z-Axis, Horizontal

Kyocera C5155 PCS
WiFi Ch1 11b 11Mbps
Z-Axis Slider Open
Battery with Headset
Horz 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
2491.758	25.35	PK	22.1	3.84	51.29	74	-22.71	100	Horz
2492.119	14.63	AV	22.1	3.84	40.57	54	-13.43	99	Horz

PK - Peak detector
Av - Average detector

Figure 32 Band-edge Graph X-Axis, Vertical

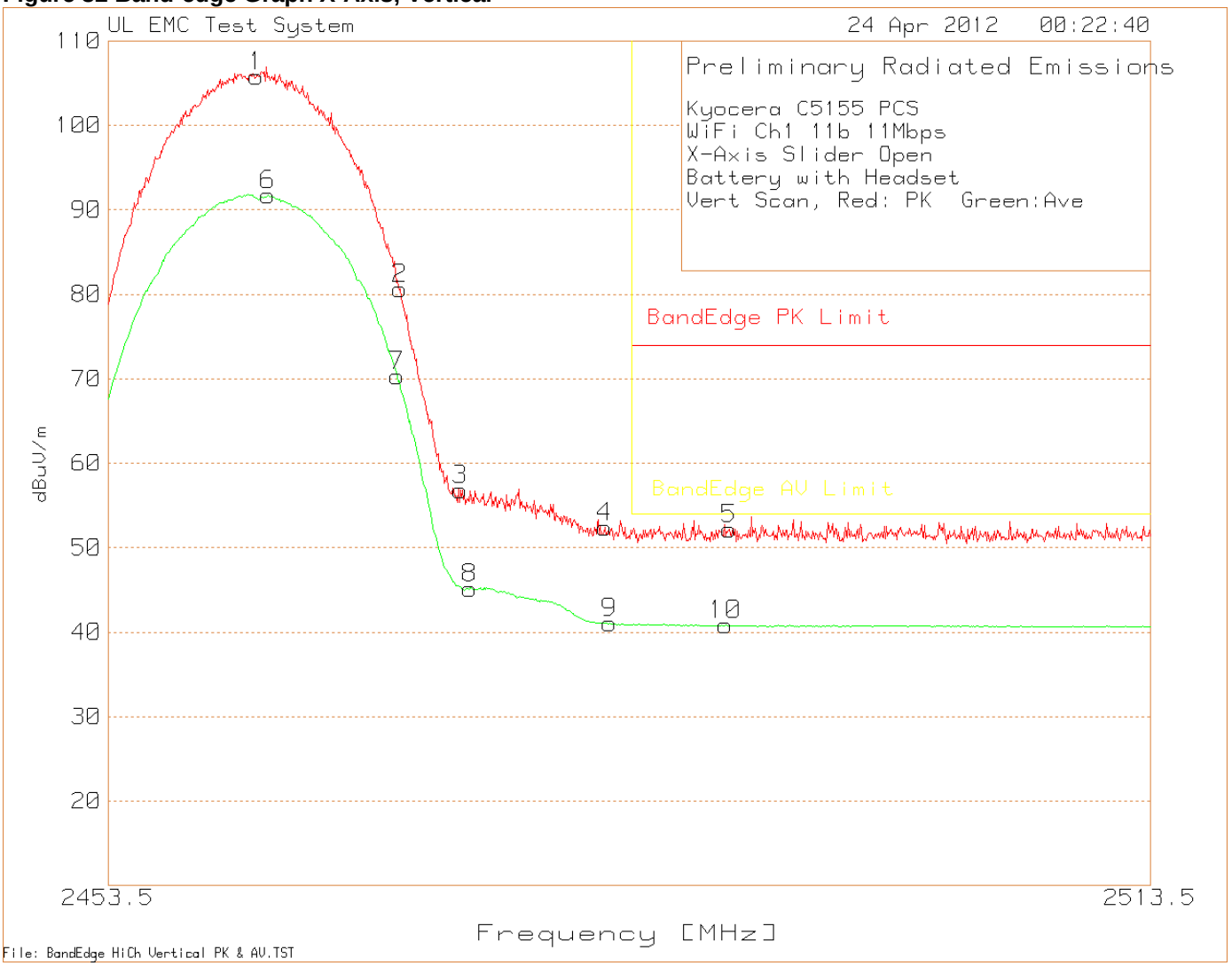


Table 20 Band-edge Data X-Axis, Vertical

Kyocera C5155 PCS
WiFi Ch1 11b 11Mbps
X-Axis Slider Open
Battery with Headset
Vert 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
2489.116	26.32	PK	22.1	3.79	52.21	74	-21.79	101	Vert
2488.875	14.92	AV	22.1	3.79	40.81	54	-13.19	150	Vert

PK - Peak detector
Av - Average detector

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

Figure 33 Band-edge Graph Z-Axis, Horizontal

Table 21 Band-edge Data Z-Axis, Horizontal

Kyocera C5155 PCS
WiFi Ch1 11g 6Mbps
Z-Axis Slider Open
Battery with Headset
Horz 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
2484.431	31.17	PK	22.1	3.77	57.04	74	-16.96	99	Horz
2489.116	26.28	PK	22.1	3.79	52.17	74	-21.83	99	Horz
2487.854	14.78	AV	22.1	3.77	40.65	54	-13.35	100	Horz

PK - Peak detector
Av - Average detector

Figure 34 Band-edge Graph X-Axis, Vertical

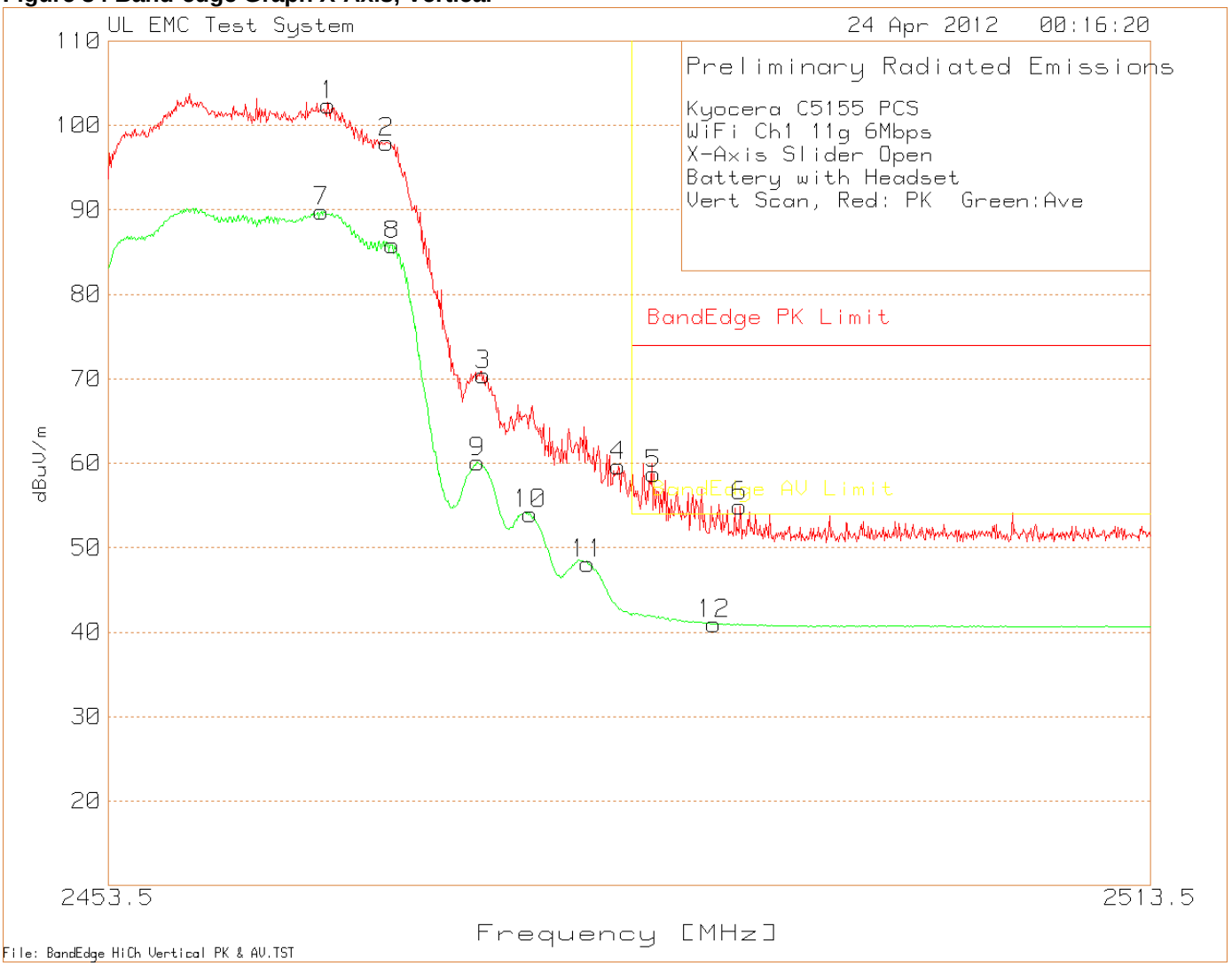


Table 22 Band-edge Data X-Axis, Vertical

Kyocera C5155 PCS
WiFi Ch1 11g 6Mbps
X-Axis Slider Open
Battery with Headset
Vert 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
2484.731	32.84	PK	22.1	3.77	58.71	74	-15.29	101	Vert
2489.716	29.04	PK	22.1	3.8	54.94	74	-19.06	150	Vert
2488.215	15.11	AV	22.1	3.78	40.99	54	-13.01	150	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

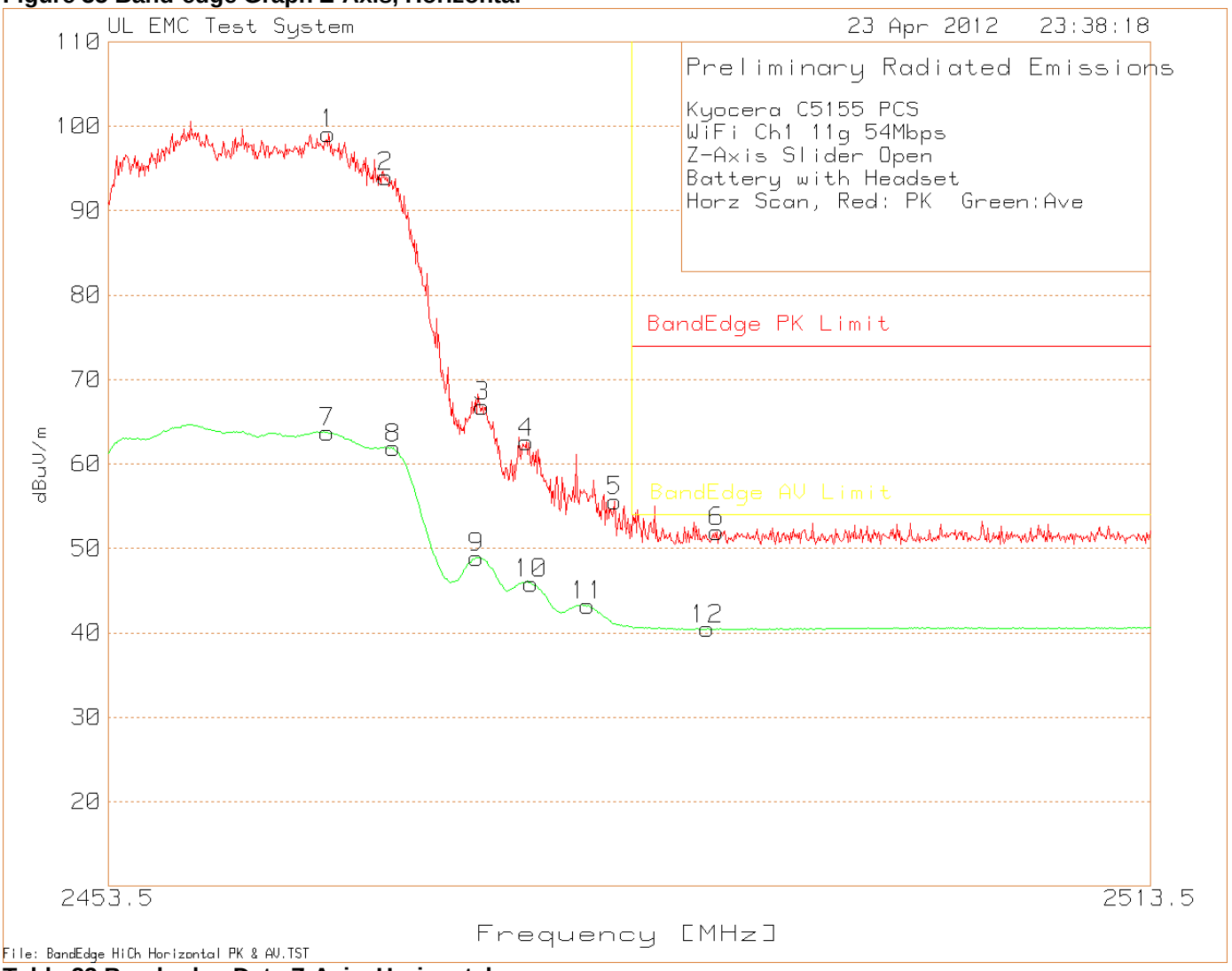


Table 23 Band-edge Data Z-Axis, Horizontal

Kyocera C5155 PCS
WiFi Ch1 11g 54Mbps
Z-Axis Slider Open
Battery with Headset
Horz 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
2488.395	26.1	PK	22.1	3.78	51.98	74	-22.02	150	Horz
2487.854	14.59	AV	22.1	3.77	40.46	54	-13.54	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 PCS
WiFi Ch1 11g 54Mbps
X-Axis Slider Open
Battery with Headset
Vert 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
2487.914	26.72	PK	22.1	3.78	52.6	74	-21.4	100	Vert
2487.164	14.8	AV	22.1	3.77	40.67	54	-13.33	150	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

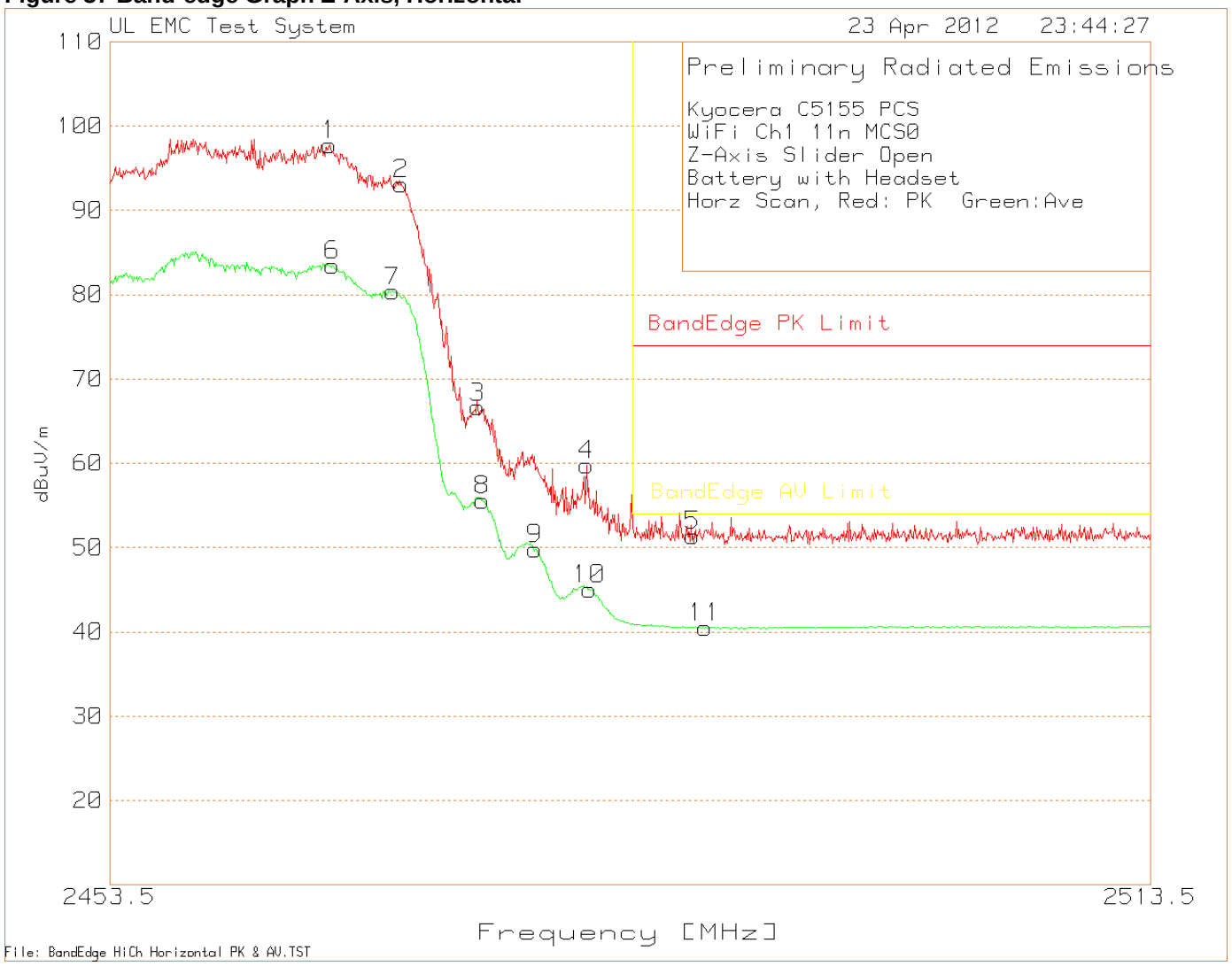


Table 25 Band-edge Data Z-Axis, Horizontal

Kyocera C5155 PCS
WiFi Ch1 11n MCS0
Z-Axis Slider Open
Battery with Headset
Horz 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
2486.953	25.55	PK	22.1	3.77	51.42	74	-22.58	100	Horz
2487.674	14.62	AV	22.1	3.77	40.49	54	-13.51	100	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 PCS
WiFi Ch1 11n MCS0
X-Axis Slider Open
Battery with Headset
Vert 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
2486.833	28.09	PK	22.1	3.77	53.96	74	-20.04	150	Vert
2486.893	15.28	AV	22.1	3.77	41.15	54	-12.85	150	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

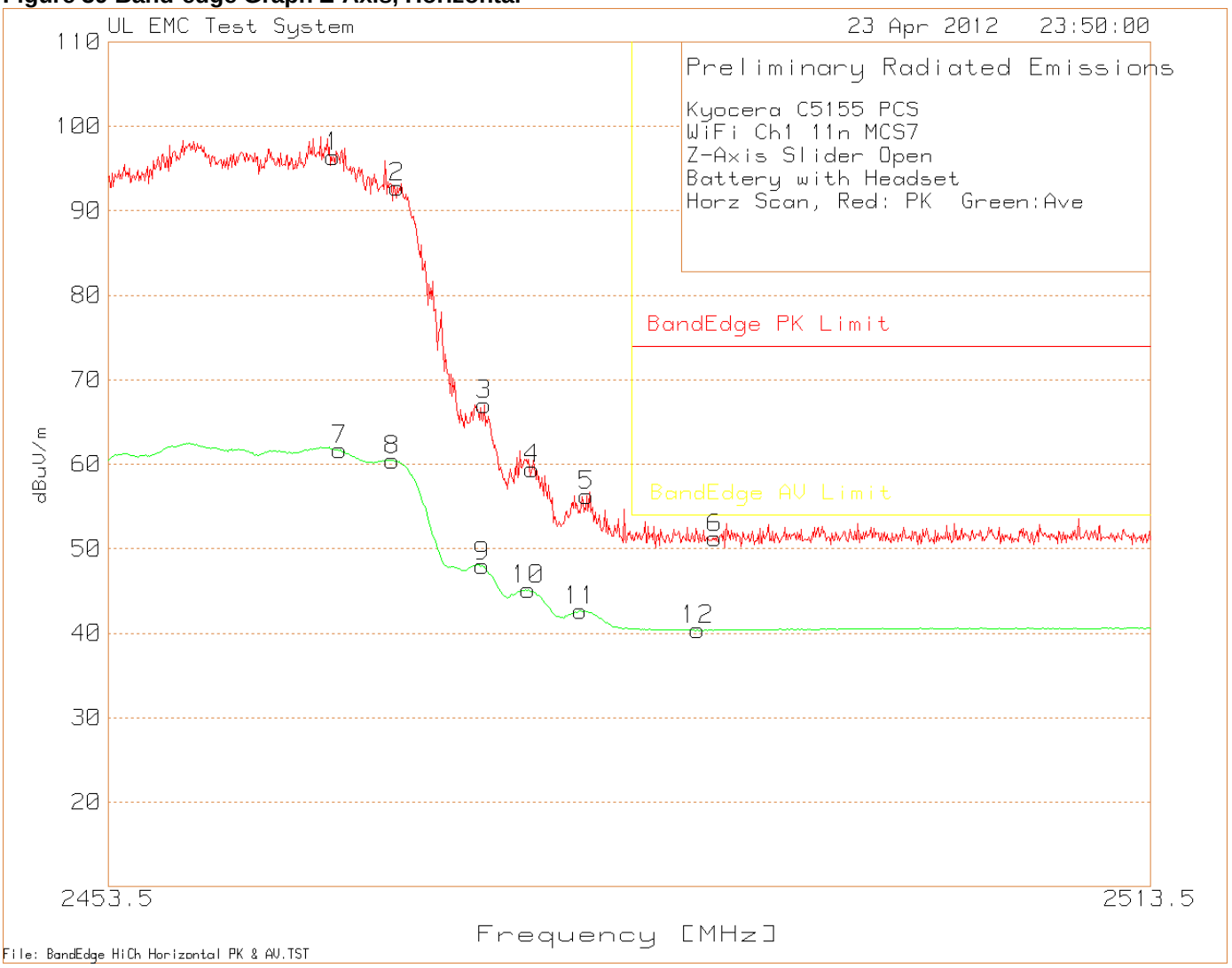


Table 27 Band-edge Data Z-Axis, Horizontal

Kyocera C5155 PCS
WiFi Ch1 11n MCS7
Z-Axis Slider Open
Battery with Headset
Horz 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
2488.275	25.35	PK	22.1	3.78	51.23	74	-22.77	100	Horz
2487.254	14.5	AV	22.1	3.77	40.37	54	-13.63	100	Horz

PK - Peak detector
Av - Average detector

Figure 40 Band-edge Graph X-Axis, Vertical

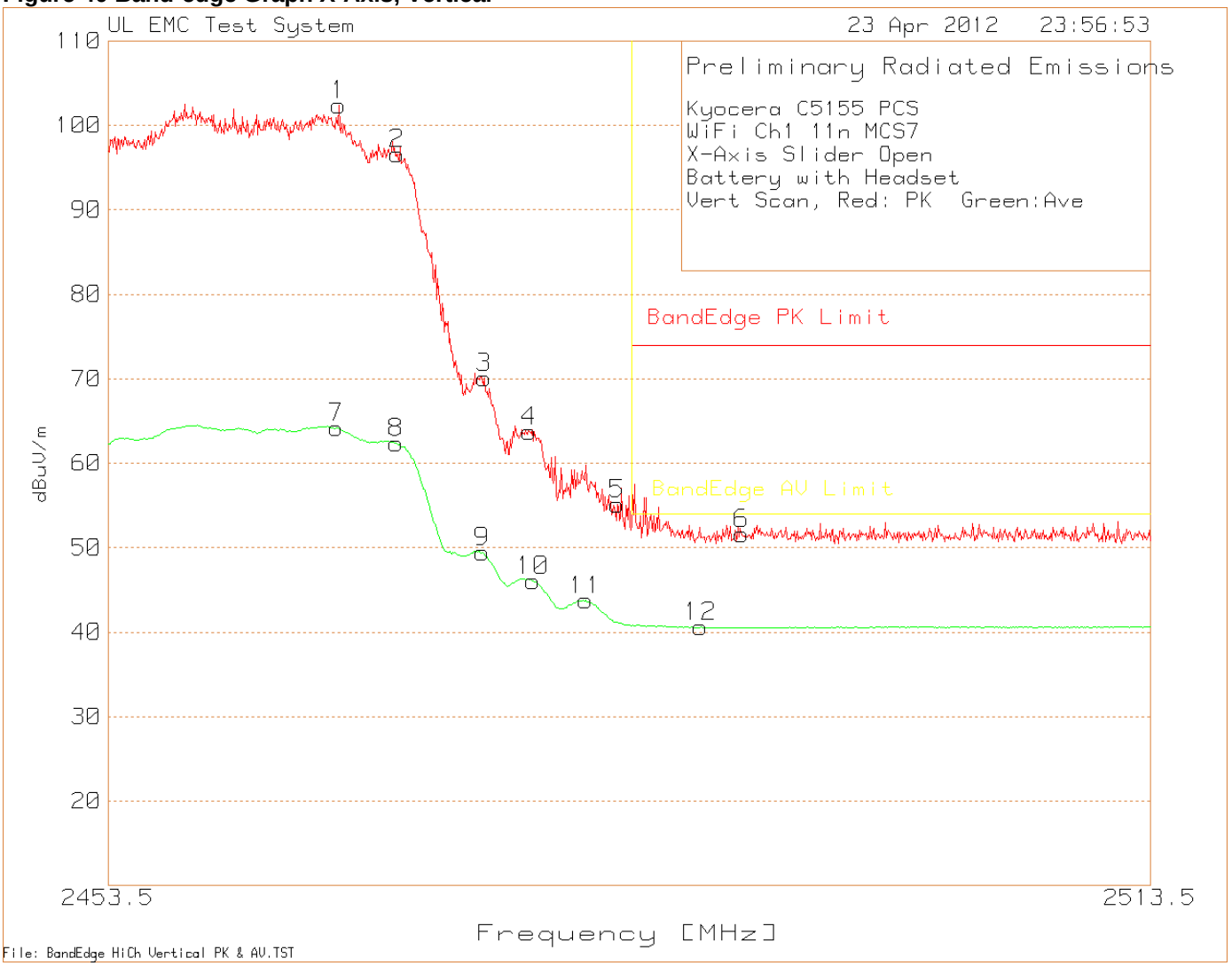


Table 28 Band-edge Data X-Axis, Vertical

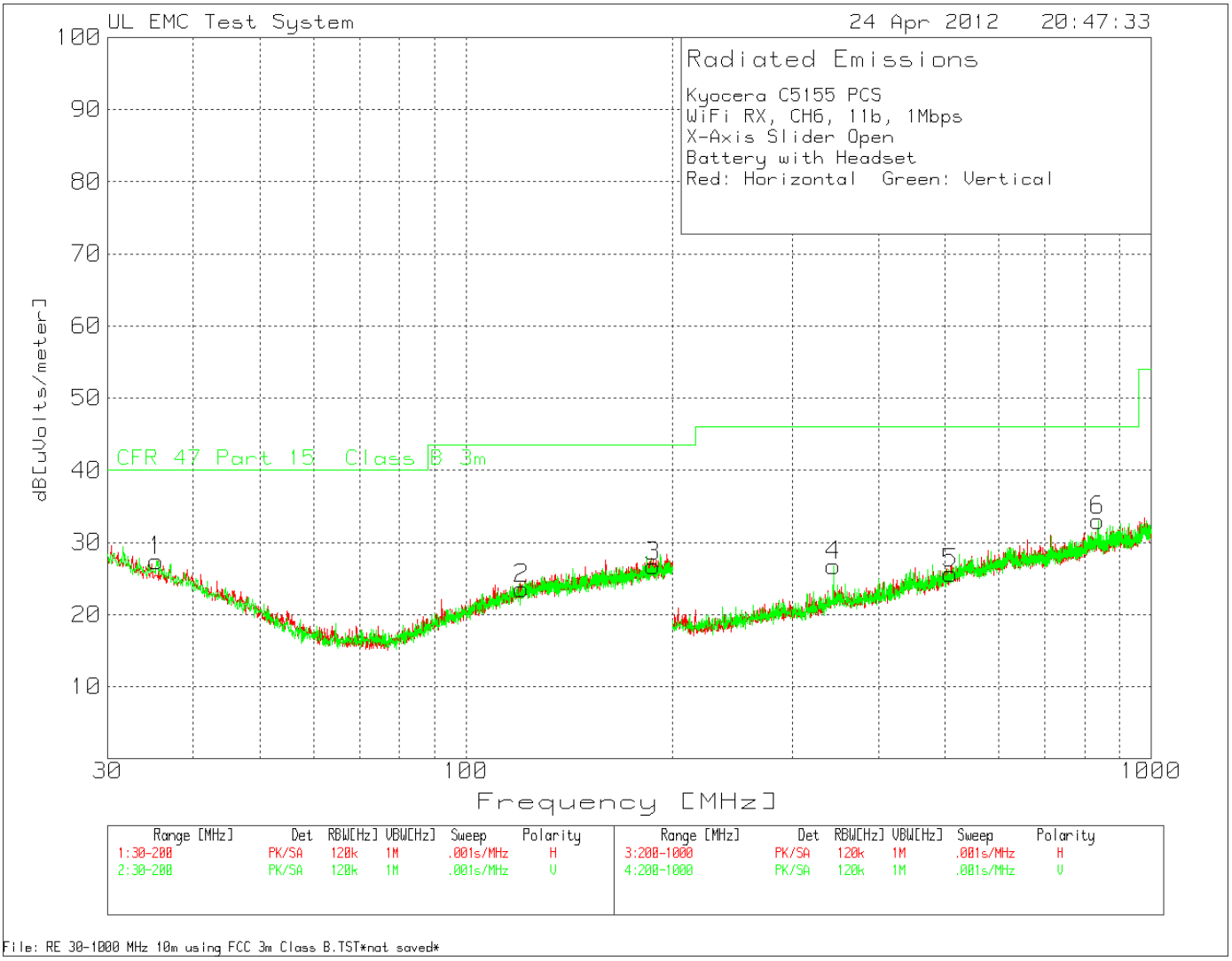
Kyocera C5155 PCS
WiFi Ch1 11n MCS7
X-Axis Slider Open
Battery with Headset
Vert Scan, Red: PK Green:Ave

Test Frequency	Meter Reading	Detector	Antenna Factor dB	Path Loss/Gain Factor dB	dBuV/m	BandEdge Limit	Margin	Height [cm]	Polarity
2489.836	25.68	PK	22.1	3.81	51.59	74	-22.41	100	Vert
2487.464	14.71	AV	22.1	3.77	40.58	54	-13.42	100	Vert

PK - Peak detector
Av - Average detector

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

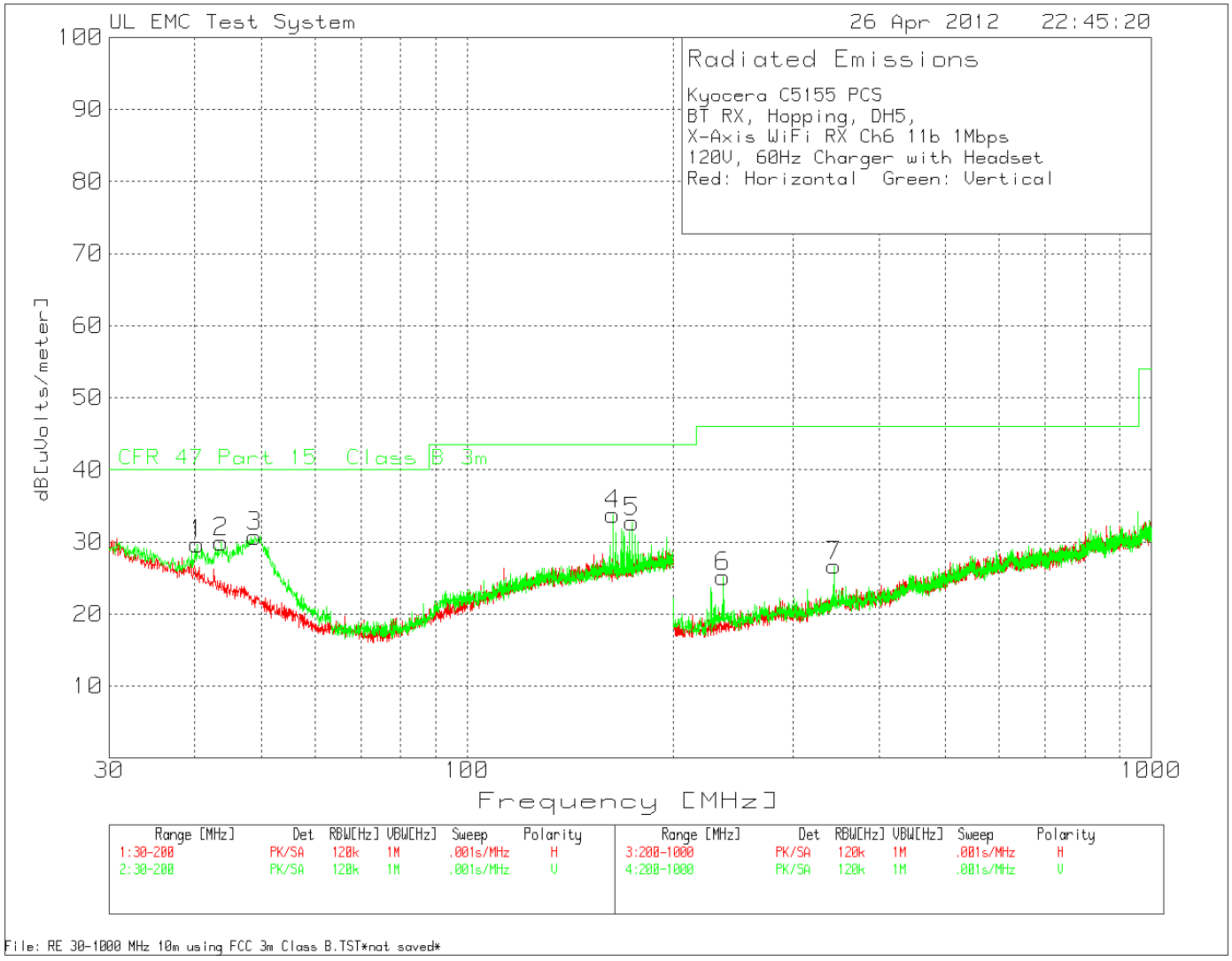
Figure 41 Radiated Emissions Graph



No Emissions found within 6dB to the limit

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

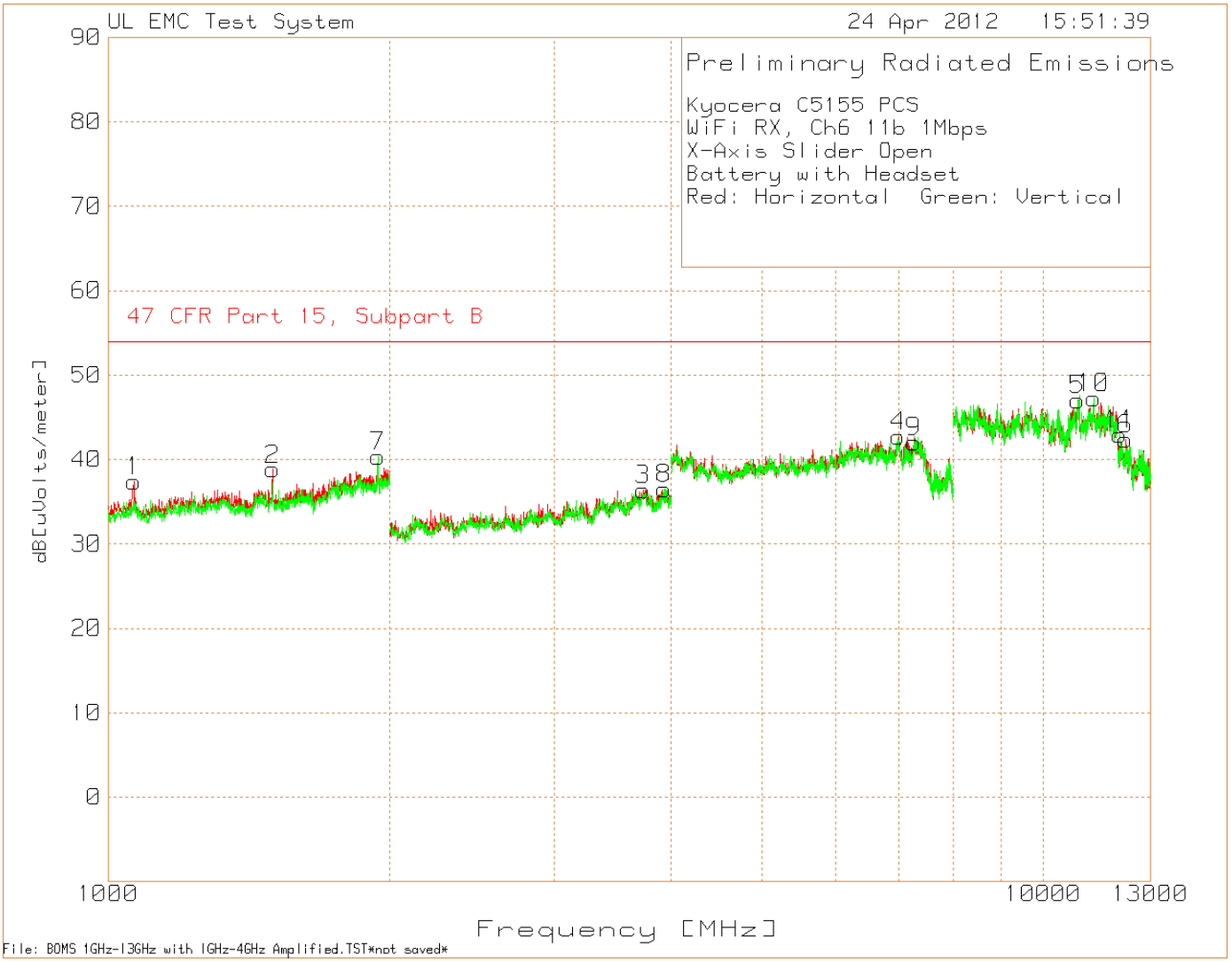
Figure 42 Radiated Emissions Graph



No Emissions found within 6dB to the limit

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

Figure 43 Radiated Emissions Graph



No Emissions detected above noise floor

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