

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNI U RCU EMI RUN 7

WKA1 01/30/09

	SPEC / TEST	: PRELIMINARY RADIATED EMISSIONS
	MANUFACTURER	: CALIFORNIA EASTERN LABS
105	MODEL No.	: ZICM241BP2
	SERIAL No.	: 825-ES2-X3
	MODE	: Tx & 2405MHz
	SCANS/BAND	: 1
	NOTES	
90	TEST DATE	: 3 Nov 2009 05:54:55
	ANT. POLARIZ.	: VERTICAL

120

105

90

75

60

45

30

15

0

LEVEL dBUL/m

START = 18000

FREQUENCY MHz

STOP = 26000

## ELITE ELECTRONIC ENGINEERING Inc.

Owners Grove, Ill. 60515

WB80 11/26/07

8546A RE RUN 2

PRELIMINARY PEAK RADIATED EMISSION TEST @ 3 METERS

SPECIFICATION : FCC 15B CLASS B  
MANUFACTURER : CALIFORNIA EASTERN LABS

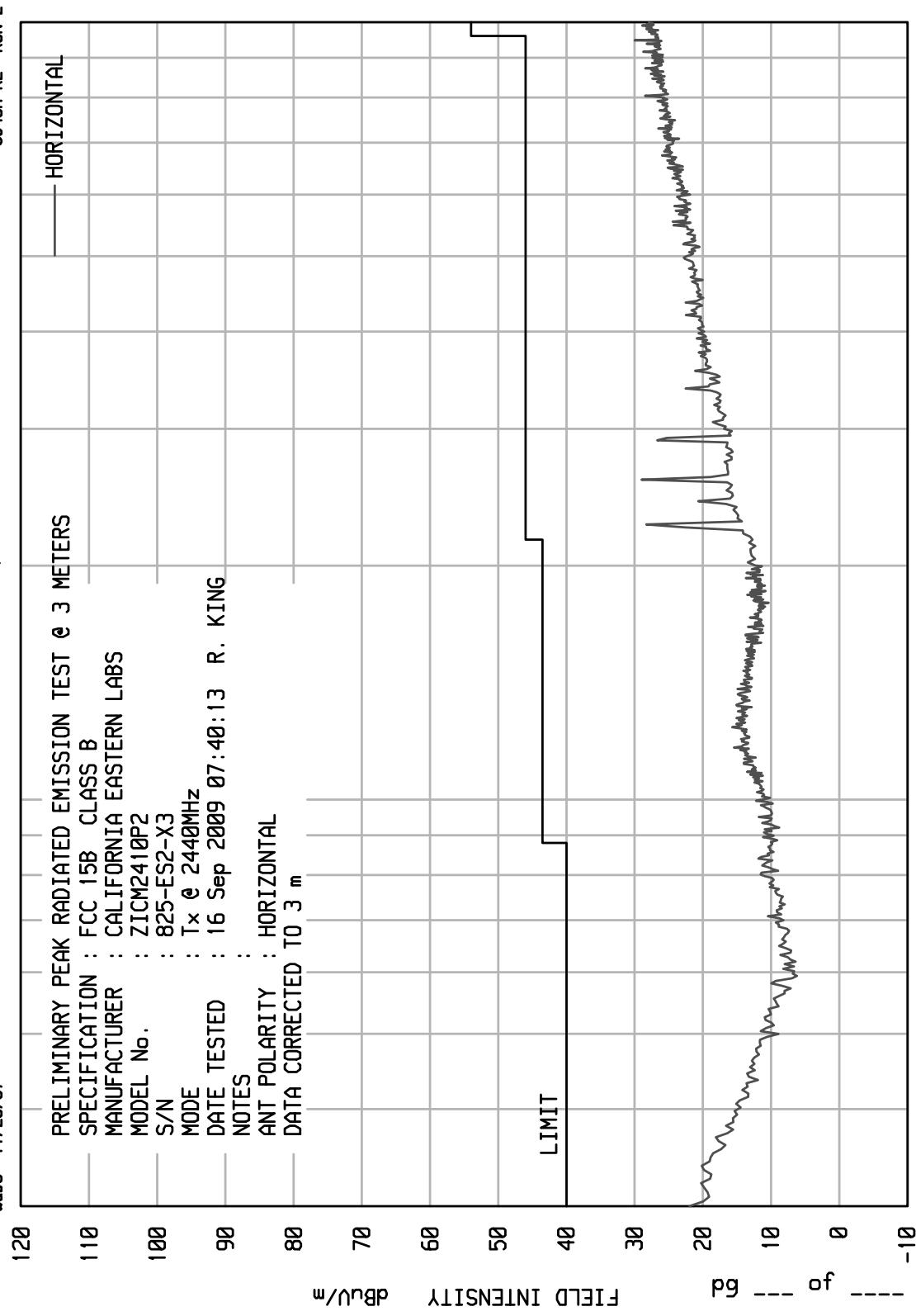
MODEL No.

ZICM2410P2  
S/N : 825-ES2-X3

MODE : Tx @ 2440MHz

DATE TESTED : 16 Sep 2009 07:40:13 R. KING

NOTES

ANT POLARITY : HORIZONTAL  
DATA CORRECTED TO 3 m

START = 300

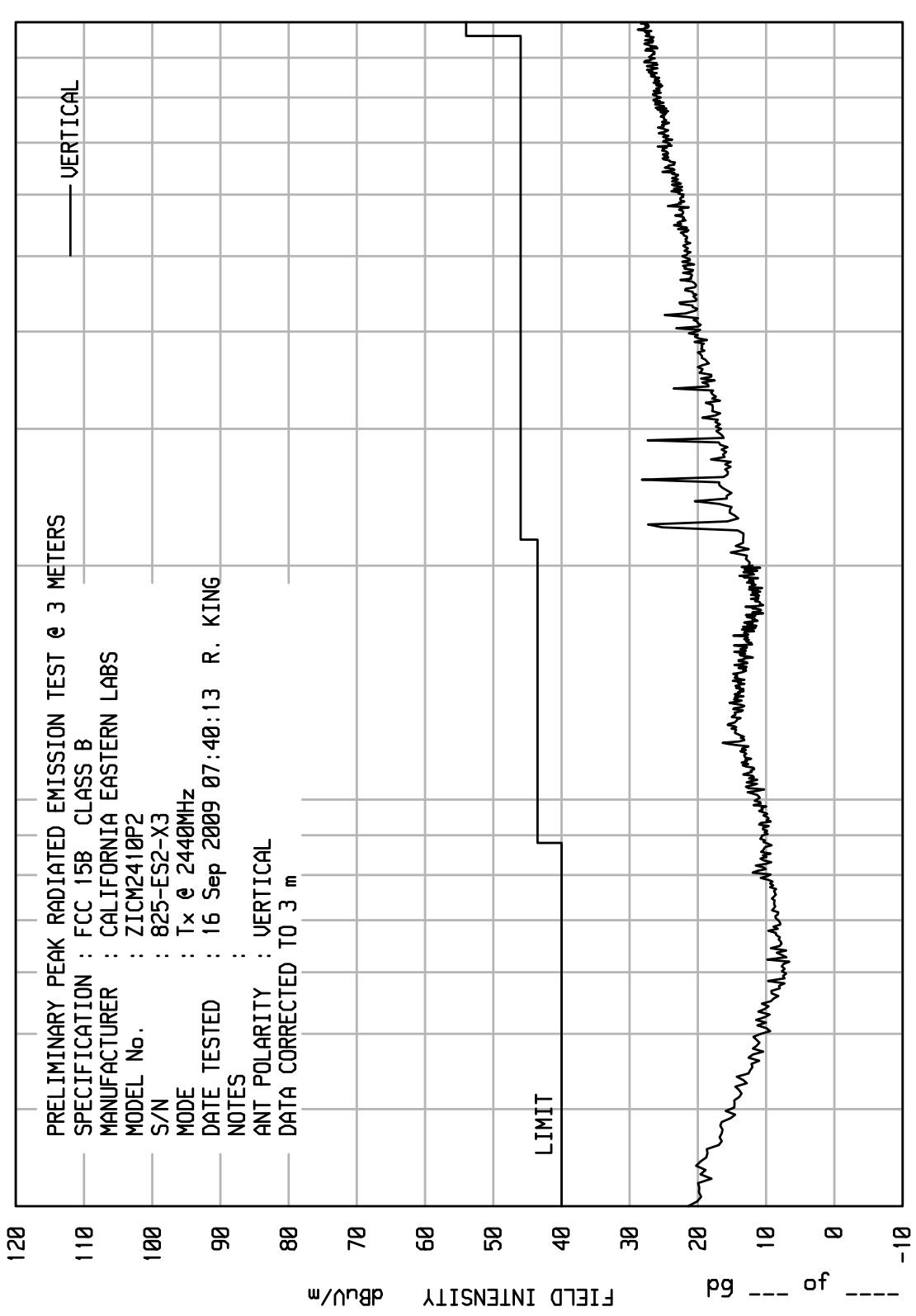
FREQUENCY - MHz

-10 0 10 20 30 40 50 60 70 80 90 100

ELITE ELECTRONIC ENGINEERING Inc.  
 Downers Grove, Ill. 60515

WB80 11/26/07

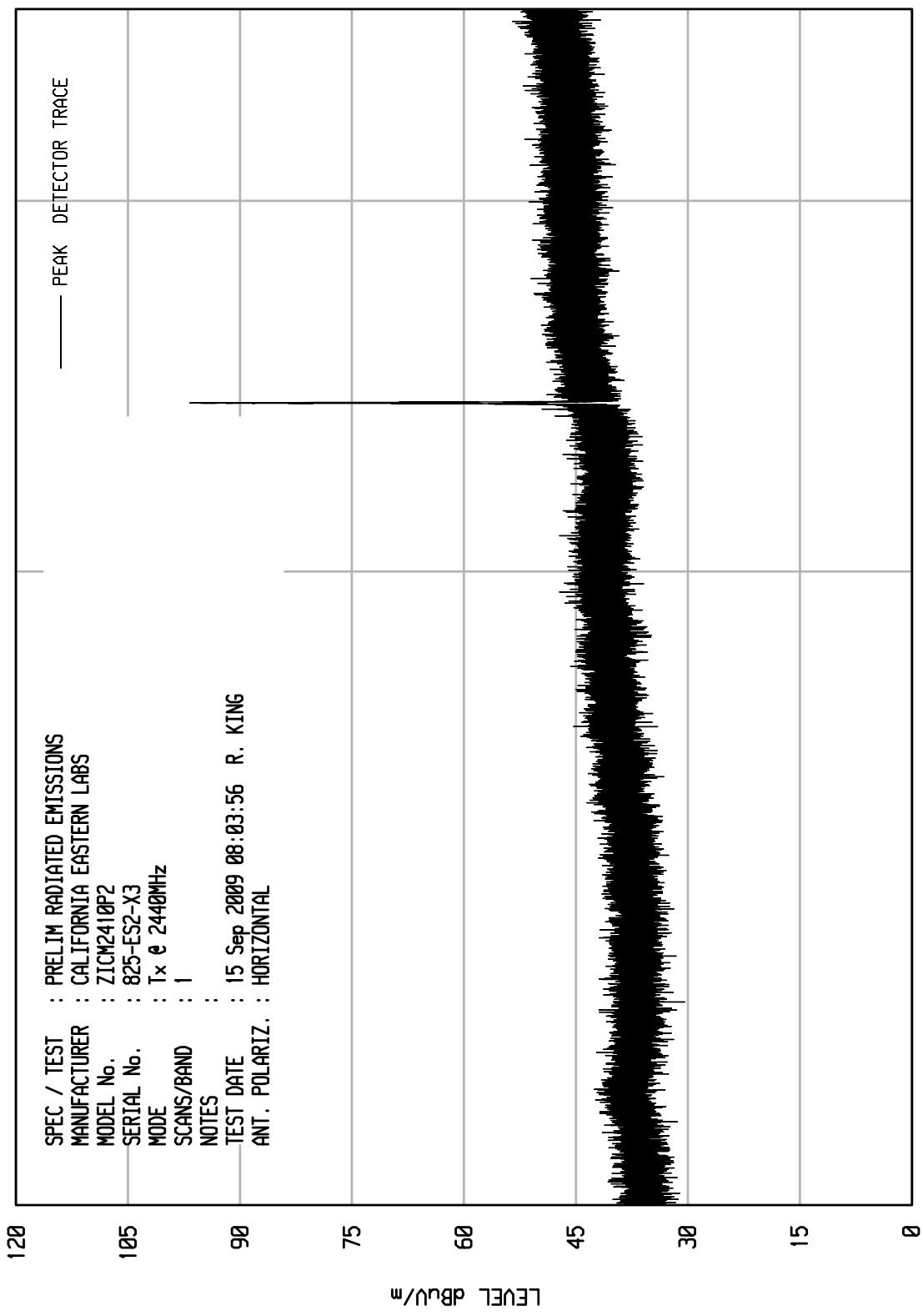
8546A RE RUN 2



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Downers Grove, Ill. 60515

WKA1 01/30/09

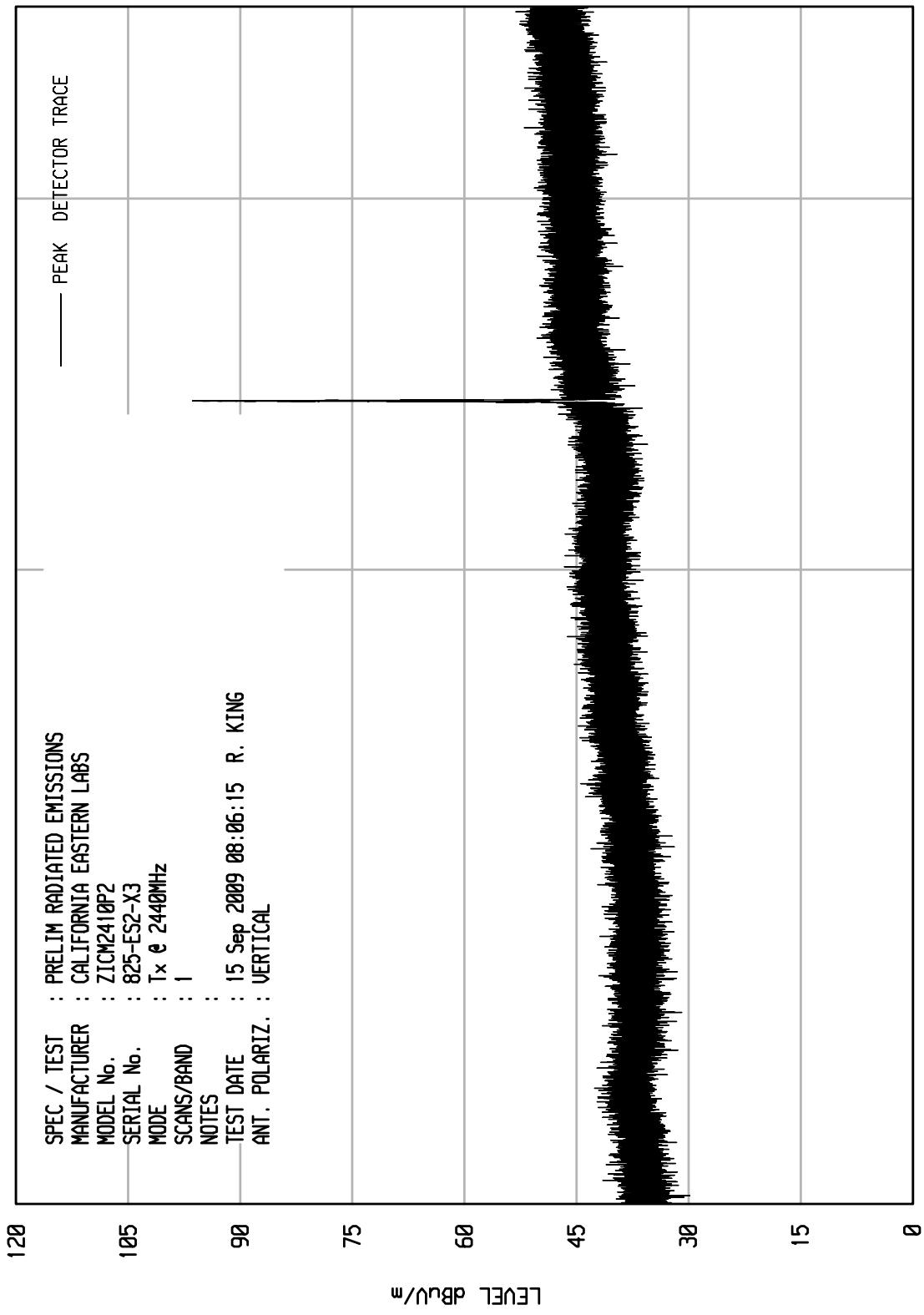
UNITU RCU EMI RUN 14



ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/30/09

UNITU RCU EMI RUN 15

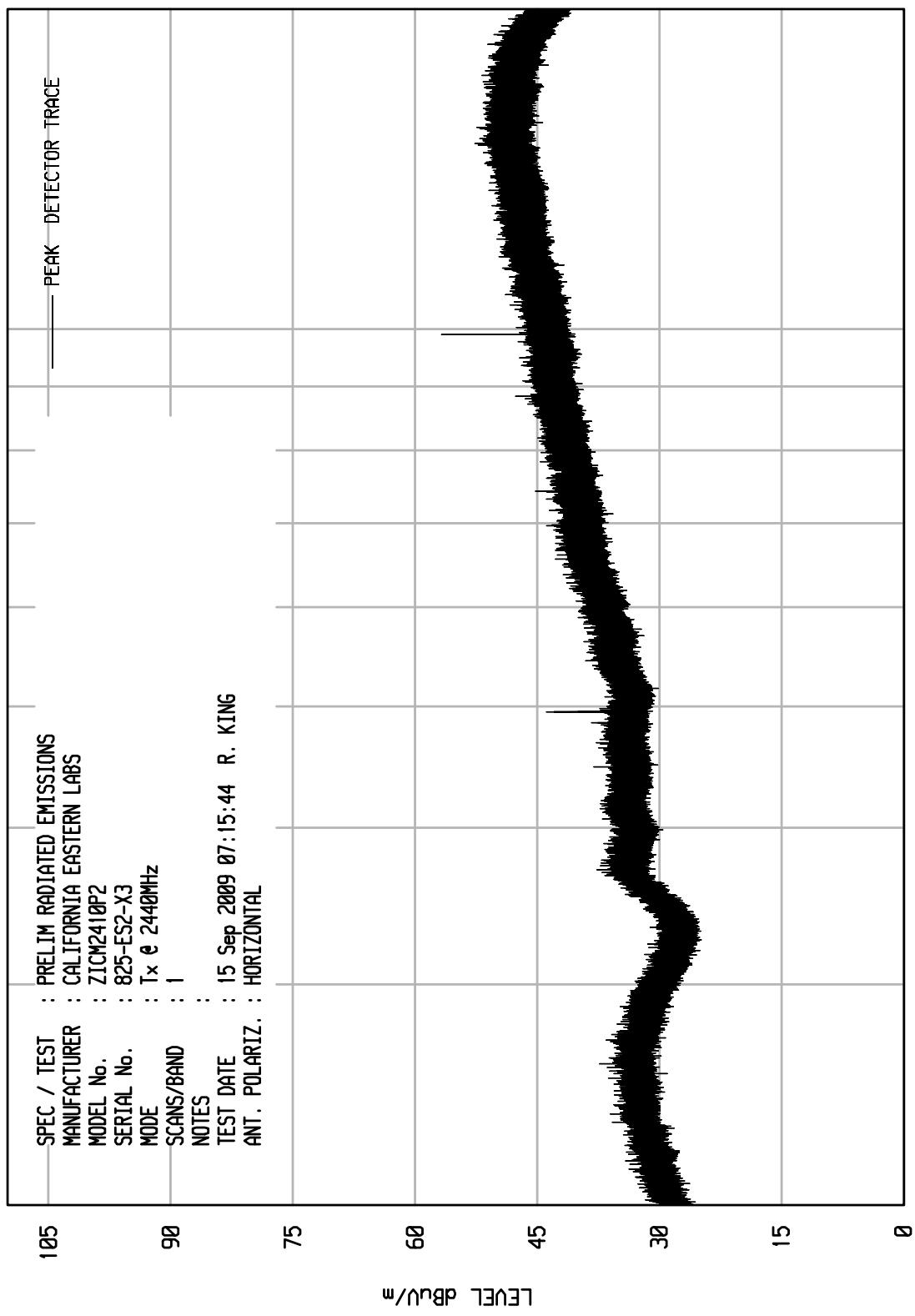


ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/30/09

UNIT RCU EMI RUN 7

SPEC / TEST	: PRELIM RADIATED EMISSIONS
MANUFACTURER	: CALIFORNIA EASTERN LABS
MODEL No.	: ZICM2410P2
SERIAL No.	: 825-ES2-X3
MODE	: Tx & 240MHz
SCANS/BAND	: 1
NOTES	
TEST DATE	: 15 Sep 2009 07:15:44
ANT. POLARIZ.	: HORIZONTAL



START = 20000

10000

FREQUENCY MHz

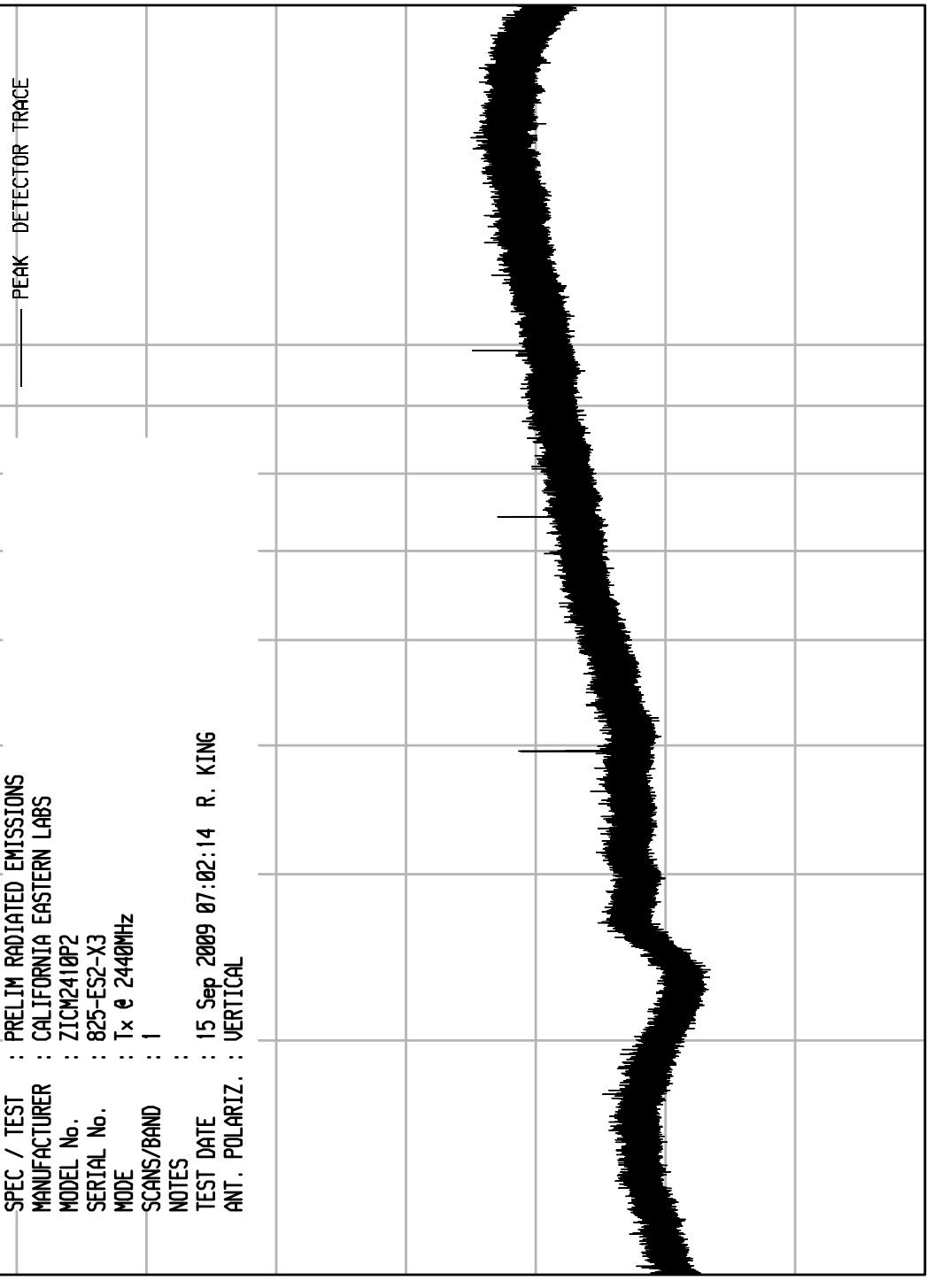
STOP = 18000

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/30/09

UNIT RCU EMI RUN 6

SPEC / TEST	: PRELIM RADIATED EMISSIONS
MANUFACTURER	: CALIFORNIA EASTERN LABS
MODEL No.	: ZICM2410P2
SERIAL No.	: 825-ES2-X3
MODE	: Tx @ 240MHz
SCANS/BAND	: 1
NOTES	
TEST DATE	: 15 Sep 2009 07:02:14
ANT. POLARIZ.	: VERTICAL

105  
90  
75LEVEL dB<sub>U/I</sub>60  
45  
30  
15  
0

START = 2000

10000

STOP = 18000

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNI U RCU EMI RUN 4

WKA1 01/30/09

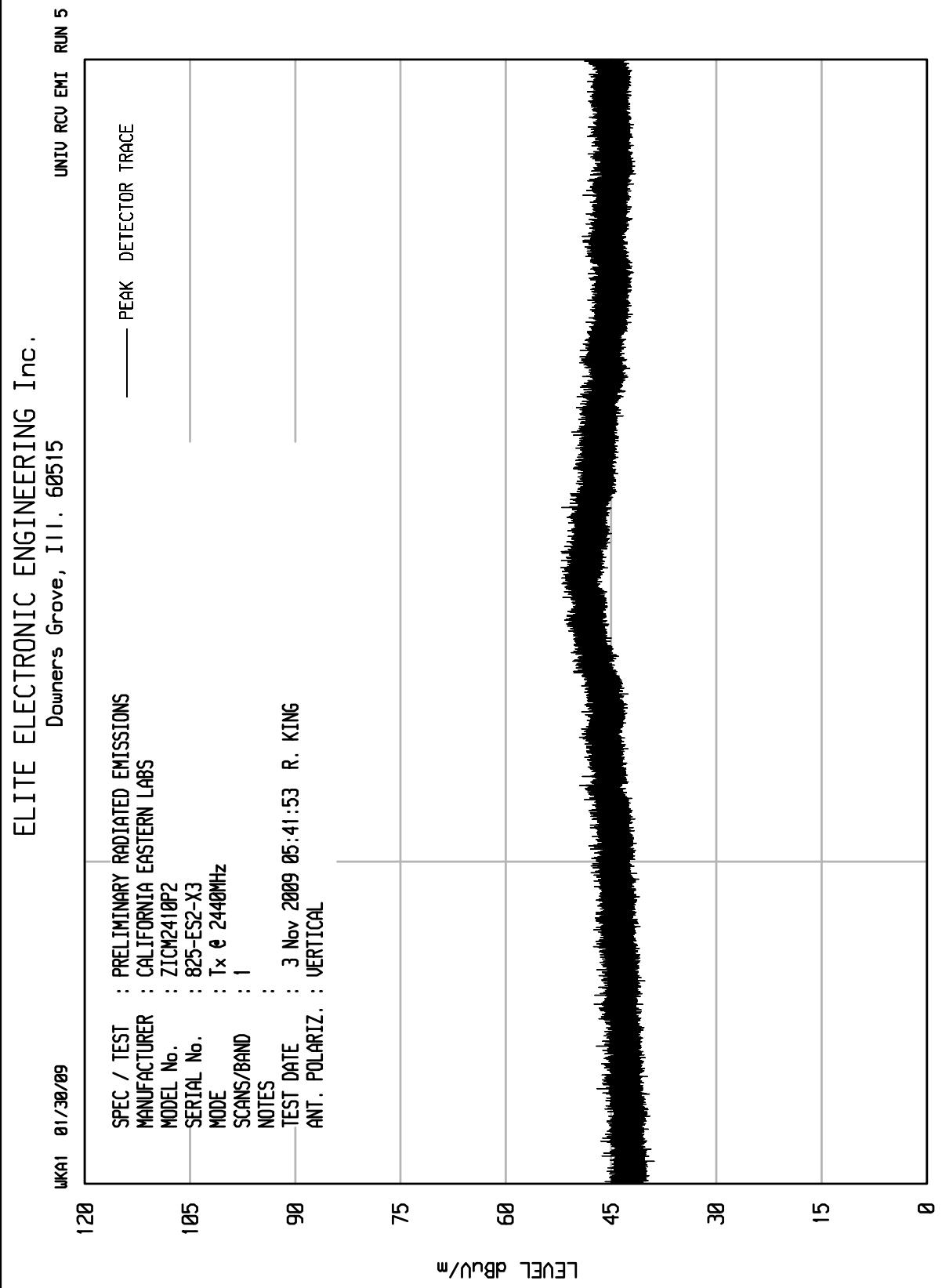
	SPEC / TEST	PRELIMINARY RADIATED EMISSIONS
	MANUFACTURER	CALIFORNIA EASTERN LABS
105	MODEL No.	ZICM241BP2
	SERIAL No.	825-ES2-X3
	MODE	Tx & 240MHz
	SCANS/BAND	1
	NOTES	
90	TEST DATE	3 Nov 2009 05:34:39 R. KING
	ANT. POLARIZ.	HORIZONTAL



START = 18000

STOP = 26000

PEAK DETECTOR TRACE

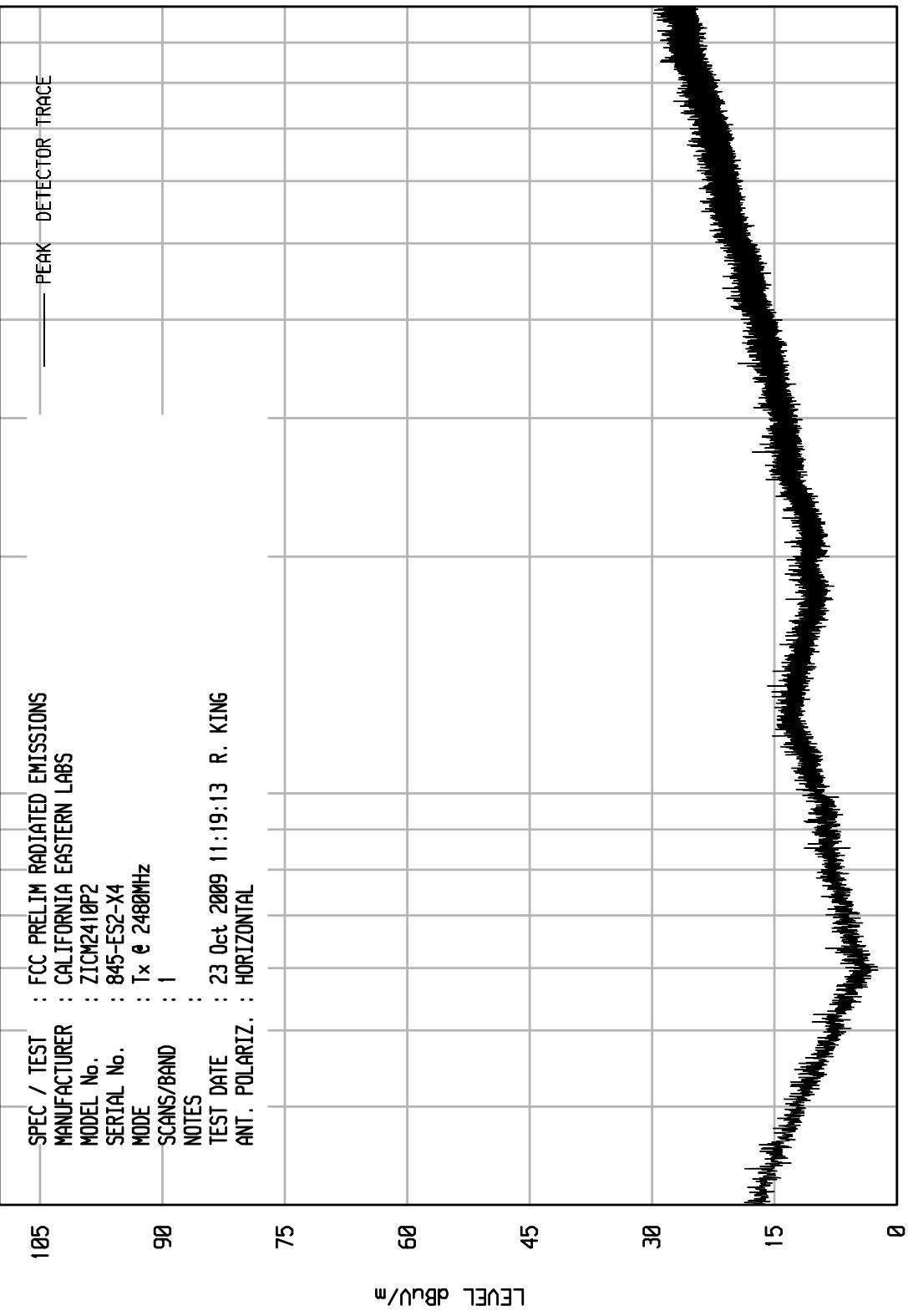


ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/30/09

UNIT RCU EMI RUN 8

SPEC / TEST	FCC PRELIM RADIATED EMISSIONS
MANUFACTURER	CALIFORNIA EASTERN LABS
MODEL No.	ZICM2410P2
SERIAL No.	845-ES2-X4
MODE	Tx & 248MHz
SCANS/BAND	1
NOTES	
TEST DATE	23 Oct 2009 11:19:13
ANT. POLARIZ.	HORIZONTAL



START = 30

100

FREQUENCY MHz

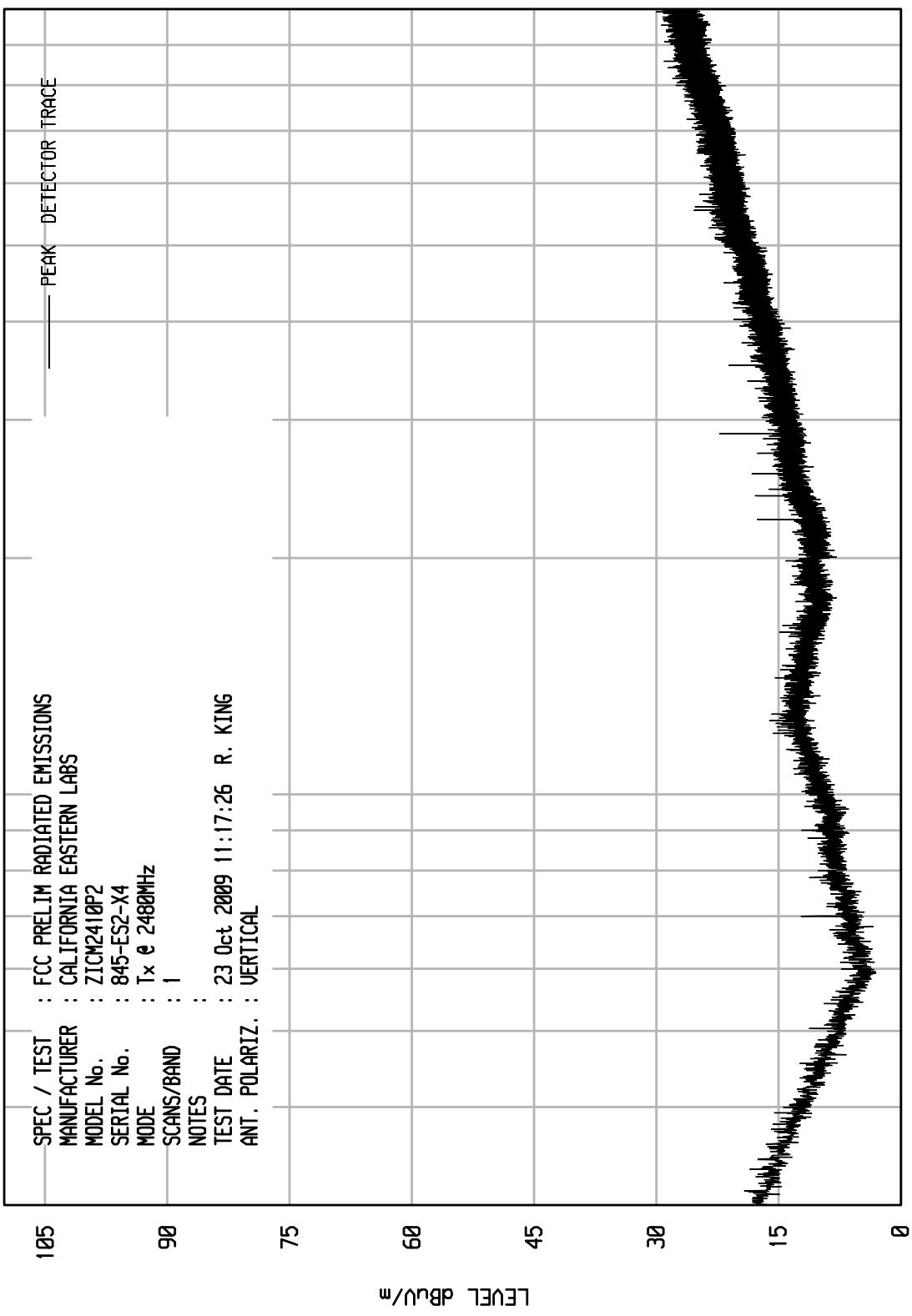
STOP = 1000

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/30/09

UNIT RCU EMI RUN 7

SPEC / TEST	FCC PRELIM RADIATED EMISSIONS
MANUFACTURER	CALIFORNIA EASTERN LABS
MODEL No.	ZICM2410P2
SERIAL No.	845-ES2-X4
MODE	Tx & 248MHz
SCANS/BAND	1
NOTES	
TEST DATE	23 Oct 2009 11:17:26
ANT. POLARIZ.	VERTICAL



START = 30

100

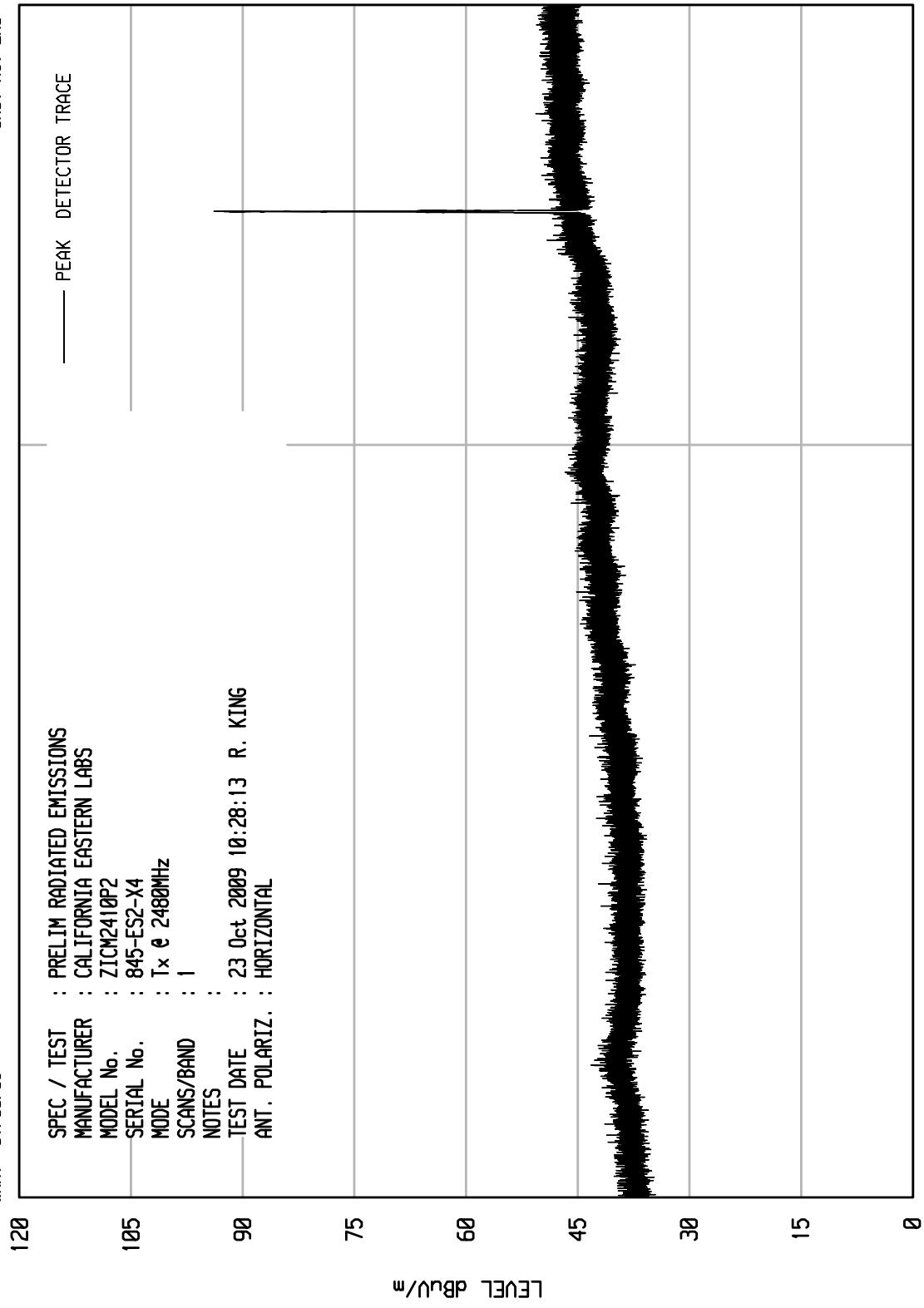
FREQUENCY MHz

STOP = 1000

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNI U RCU EMI RUN 3

WKA1 01/30/09



START = 1000

STOP = 3000

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNI U RCU EMI RUN 2

WKA1 01/30/09

	SPEC / TEST	PRELIM RADIATED EMISSIONS
	MANUFACTURER	CALIFORNIA EASTERN LABS
105	MODEL No.	ZICM2410P2
	SERIAL No.	845-ES2-X4
	MODE	Tx & 248MHz
	SCANS/BAND	1
	NOTES	
90	TEST DATE	23 Oct 2009 10:25:16 R. KING
	ANT. POLARIZ.	VERTICAL

120

105

90

75

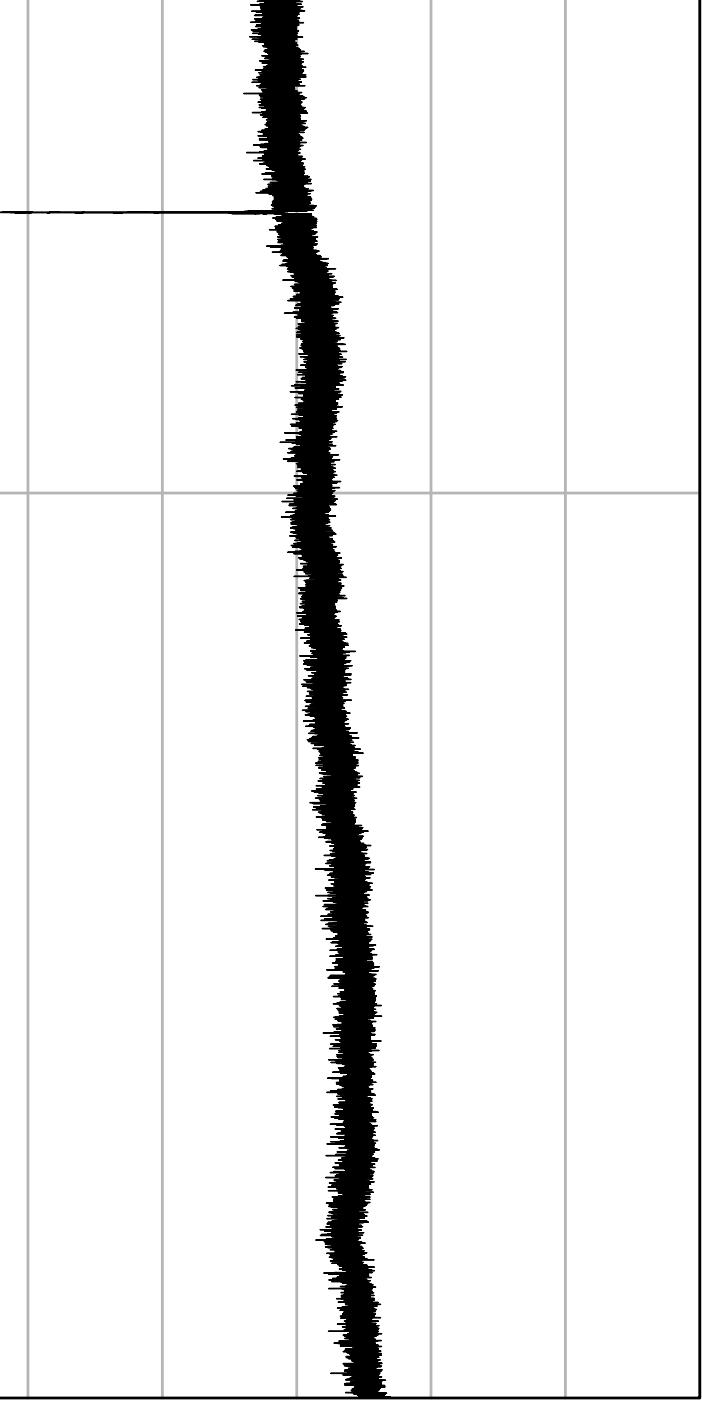
60

45

30

15

0

LEVEL dB<sub>U</sub>/<sub>m</sub>

START = 1000

FREQUENCY MHz

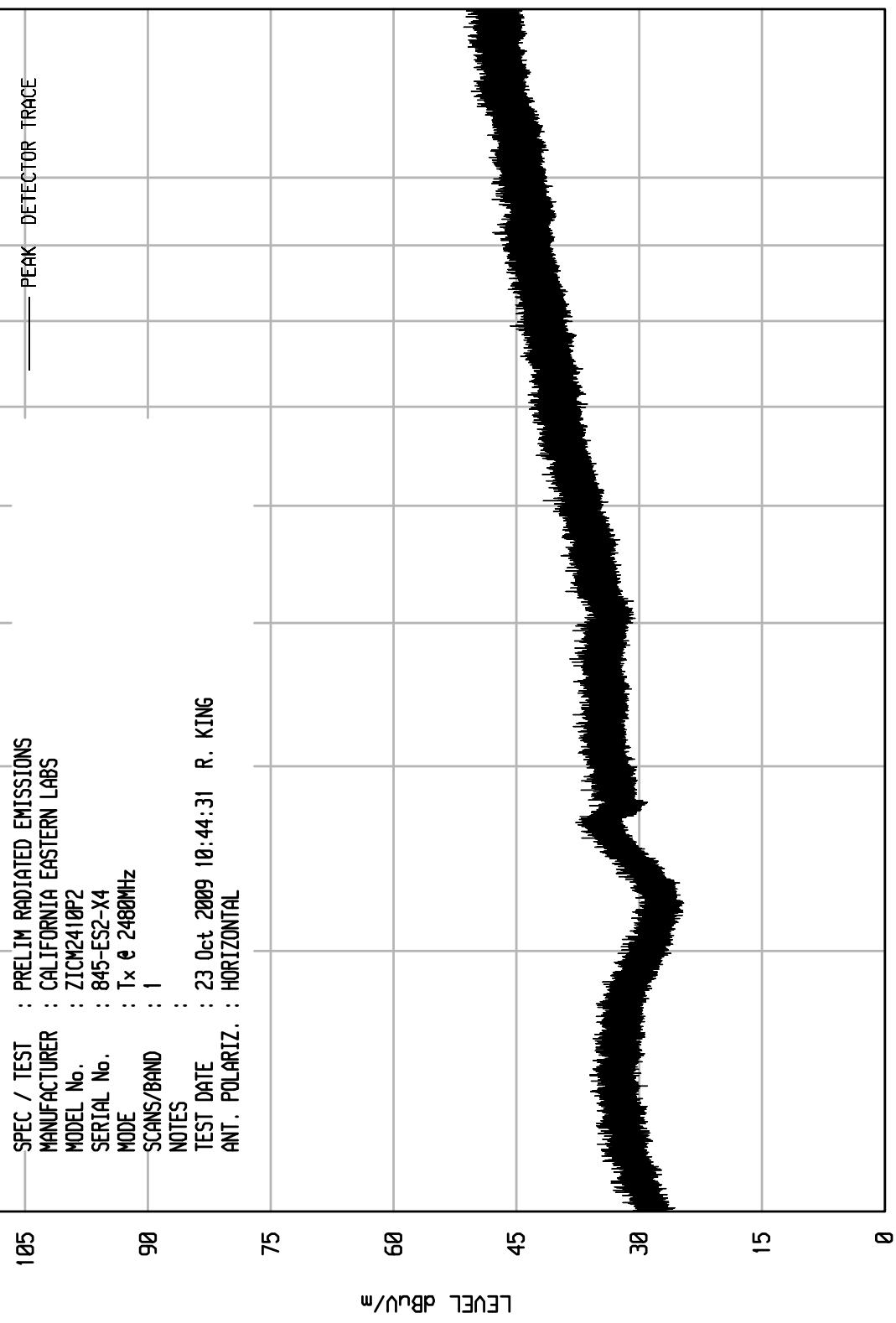
STOP = 30000

ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/30/09

UNIT RCU EMI RUN 5

SPEC / TEST	: PRELIM RADIATED EMISSIONS
MANUFACTURER	: CALIFORNIA EASTERN LABS
MODEL No.	: ZICM2410P2
SERIAL No.	: 845-ES2-X4
MODE	: Tx & 248MHz
SCANS/BAND	: 1
NOTES	
TEST DATE	: 23 Oct 2009 10:44:31
ANT. POLARIZ.	: HORIZONTAL

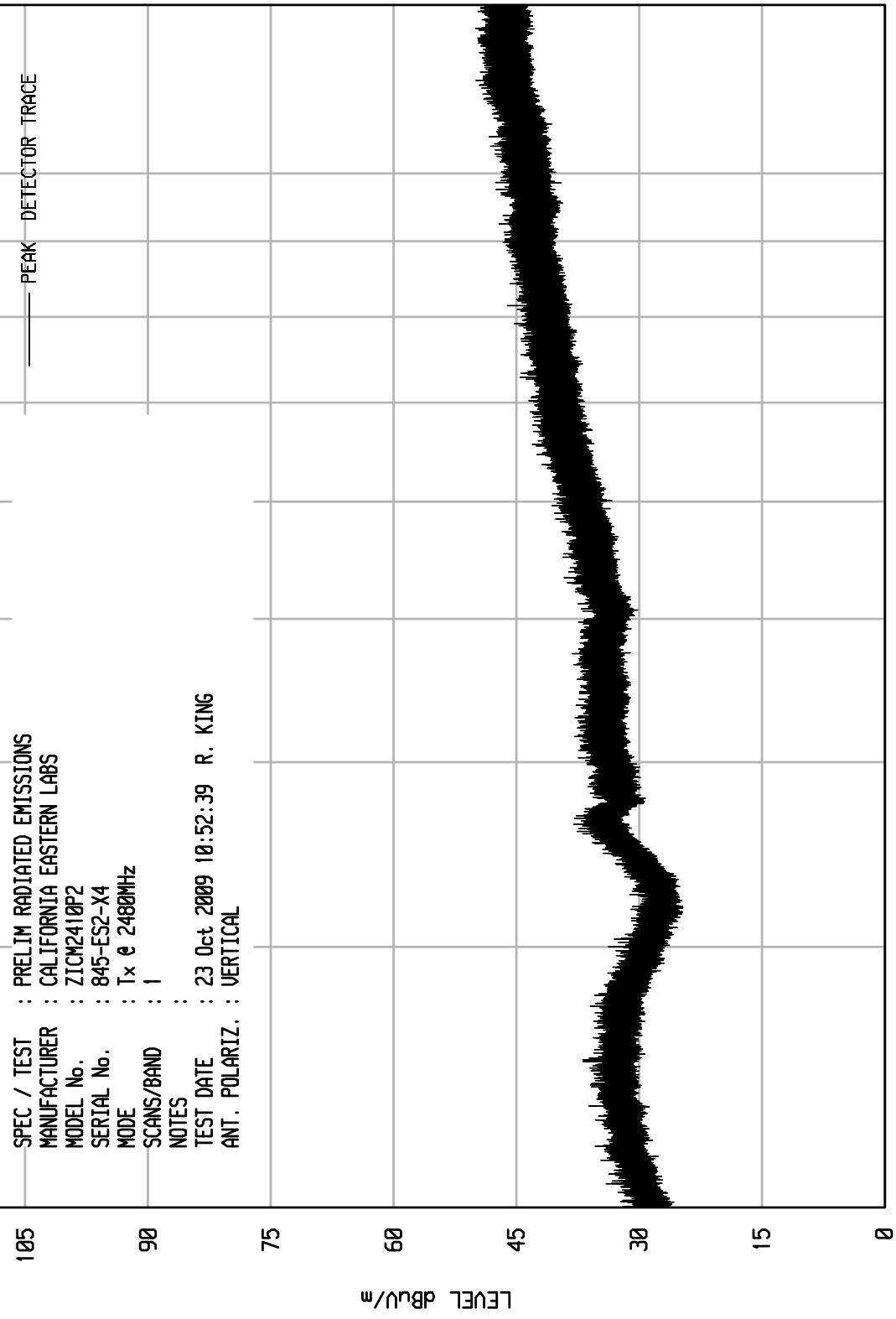


ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

WKA1 01/30/09

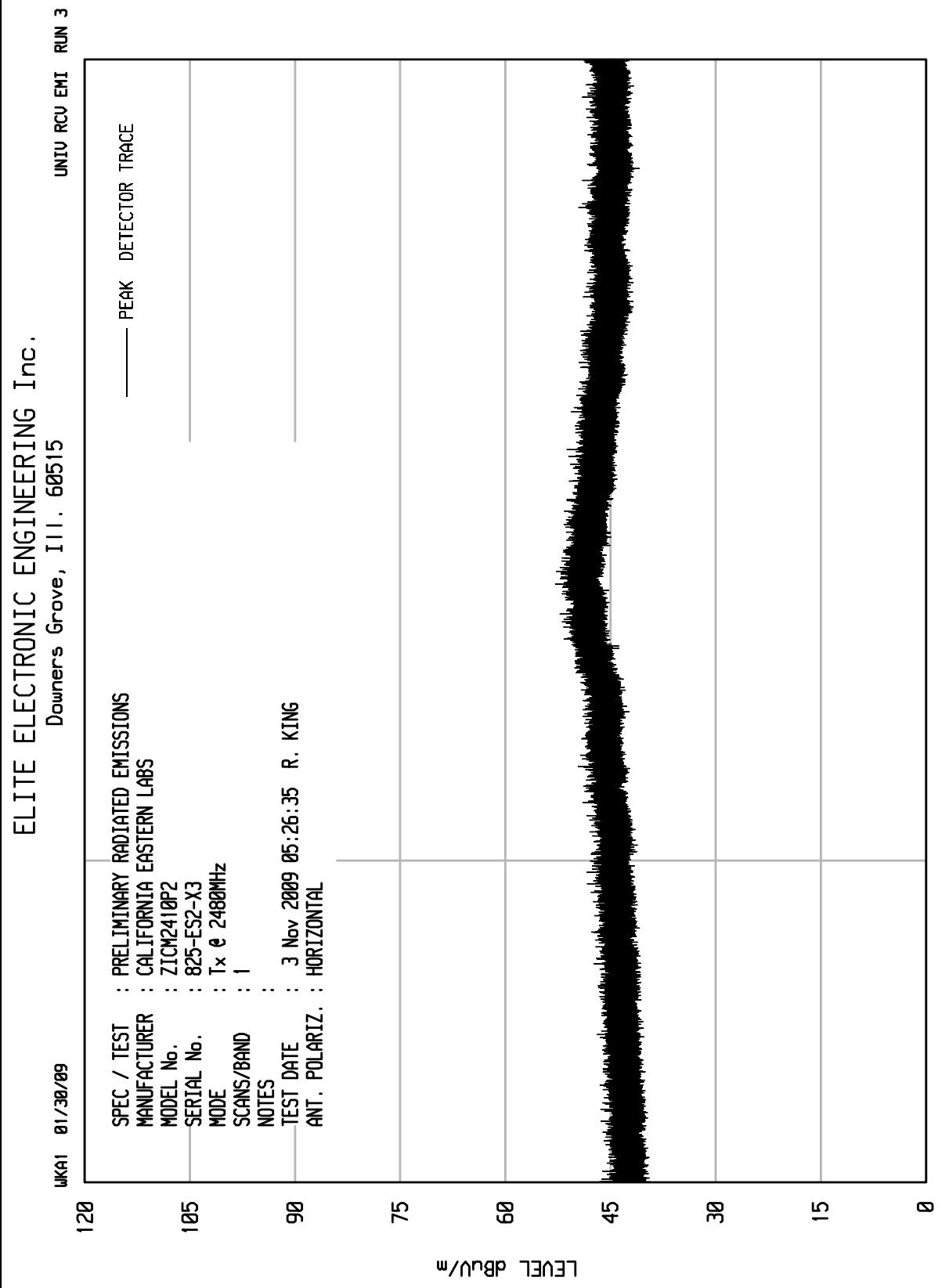
UNIT RCU EMI RUN 6

SPEC / TEST	: PRELIM RADIATED EMISSIONS
MANUFACTURER	: CALIFORNIA EASTERN LABS
MODEL No.	: ZICM2410P2
SERIAL No.	: 845-ES2-X4
MODE	: Tx & 248MHz
SCANS/BAND	: 1
NOTES	
TEST DATE	: 23 Oct 2009 10:52:39
ANT. POLARIZ.	: VERTICAL



START = 2000

STOP = 13000



ELITE ELECTRONIC ENGINEERING Inc.  
Downers Grove, Ill. 60515

UNI U RCU EMI RUN 2

WKA1 01/30/09

	SPEC / TEST	PRELIMINARY RADIATED EMISSIONS
	MANUFACTURER	CALIFORNIA EASTERN LABS
105	MODEL No.	ZICM2410P2
	SERIAL No.	825-ES2-X3
	MODE	Tx & 248MHz
	SCANS/BAND	1
90	NOTES	
	TEST DATE	3 Nov 2009 05:18:54 R. KING
	ANT. POLARIZ.	VERTICAL

120

105

90

15

0

LEVEL dBUL/m

75

60

45

30

15

0

START = 18000

FREQUENCY MHz

STOP = 26000



Manufacturer : California Eastern Labs  
Test Item : Zigbee Transceiver  
Model No. : ZICM2410P2  
Test Specification : FCC Part 15, Subpart C, Section 15.247, Radiated Emissions  
Date : September 14 through 25, 2009  
Mode : Transmit @ 2405MHz  
Test Distance : 3 meters  
Notes : none

Total = Meter Reading + Cable Loss + Antenna Factor + Preamp Gain

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
2405.0	H	86.5	3.8	30.3	0.0	120.6	1071519.3		
2405.0	V	78.4	3.8	30.3	0.0	112.5	1071519.3		
4810.0	H	54.3	5.7	34.5	-40.1	54.4	527	5000	-19.5
4810.0	V	55.3	5.7	34.5	-40.1	55.4	587	5000	-18.6
7215.0	H	47.5	7.6	38.0	-39.8	53.4	468	107152	-47.2
7215.0	V	45.6	7.6	38.0	-39.8	51.4	374	107152	-49.2
9620.0	H	45.5	8.6	39.8	-38.8	55.1	566	107152	-45.5
9620.0	V	52.2	8.6	39.8	-38.8	61.8	1229	107152	-38.8
12025.0	H	44.7	9.8	41.4	-39.6	56.3	650	5000	-17.7
12025.0	V	44.4	9.8	41.4	-39.6	56.0	631	5000	-18.0
14430.0	H	41.7	1.4	43.7	-39.9	47.0	223	107152	-53.6
14430.0	V	41.5	1.4	43.7	-39.9	46.7	217	107152	-53.9
16835.0	H	40.5	1.8	44.6	-38.7	48.2	258	107152	-52.4
16835.0	V	40.9	1.8	44.6	-38.7	48.6	270	107152	-52.0
19240.0	H	34.6	2.2	40.4	-27.5	49.7	305	5000	-24.3
19240.0	V	34.6	2.2	40.4	-27.5	49.7	305	5000	-24.3
21645.0	H	34.7	2.2	40.6	-26.2	51.2	365	107152	-49.4
21645.0	V	34.6	2.2	40.6	-26.2	51.1	361	107152	-49.5
24050.0	H	34.8	2.2	40.6	-27.4	50.3	326	107152	-50.3
24050.0	V	34.8	2.2	40.6	-27.4	50.3	327	107152	-50.3

Checked BY *Richard E. King* :

Richard E. King



Manufacturer : California Eastern Labs  
Test Item : Zigbee Transceiver  
Model No. : ZICM2410P2  
Test Specification : FCC Part 15, Subpart C, Section 15.247, Radiated Emissions  
Date : September 14 through 25, 2009  
Mode : Transmit @ 2405MHz  
Test Distance : 3 meters  
Notes : none

Total = Meter Reading + Cable Loss + Antenna Factor + Preamp Gain + Duty Cycle Factor

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
4810.0	H	54.3	5.7	34.5	-40.1	-11.1	43.4	147.6	500	-10.6
4810.0	V	55.3	5.7	34.5	-40.1	-11.1	44.3	164.4	500	-9.7
12025.0	H	44.7	9.8	41.4	-39.6	-11.1	45.2	182.0	500	-8.8
12025.0	V	44.4	9.8	41.4	-39.6	-11.1	44.9	176.6	500	-9.0
19240.0	H	34.6	2.2	40.4	-27.5	-11.1	38.6	85.3	500	-15.4
19240.0	V	34.6	2.2	40.4	-27.5	-11.1	38.6	85.4	500	-15.3

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : California Eastern Labs  
Test Item : Zigbee Transceiver  
Model No. : ZICM2410P2  
Test Specification : FCC Part 15, Subpart C, Section 15.247, Radiated Emissions  
Date : September 14 through 25, 2009  
Mode : Transmit @ 2440MHz  
Test Distance : 3 meters  
Notes : none

Total = Meter Reading + Cable Loss + Antenna Factor + Preamp Gain

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
2440.0	H	80.6	3.8	31.3	0.0	115.7	609536.9		
2440.0	V	77.7	3.8	30.4	0.0	111.9	609536.9		
4880.0	H	56.8	5.7	34.5	-40.1	56.9	698.6	5000	-17.1
4880.0	V	55.6	5.7	34.5	-40.1	55.7	609.2	5000	-18.3
7320.0	H	57.0	7.7	38.1	-39.8	63.0	1410.2	5000	-11.0
7320.0	V	56.0	7.7	38.1	-39.8	62.0	1255.4	5000	-12.0
9760.0	H	43.6	8.6	39.9	-38.7	53.3	465.0	60954	-42.4
9760.0	V	49.6	8.6	39.9	-38.7	59.3	927.8	60954	-36.4
12200.0	H	43.9	9.9	41.4	-39.4	55.7	610.1	5000	-18.3
12200.0	V	46.3	9.9	41.4	-39.4	58.1	800.5	5000	-15.9
14640.0	H	42.6	1.5	44.1	-40.1	48.0	252.5	60954	-47.7
14640.0	V	42.6	1.5	44.1	-40.1	48.1	252.8	60954	-47.6
17080.0	H	41.9	1.9	44.5	-38.7	49.5	300.2	60954	-46.2
17080.0	V	41.9	1.9	44.5	-38.7	49.5	300.2	60954	-46.2
19520.0	H	35.5	2.2	40.4	-27.2	50.9	350.7	5000	-23.1
19520.0	V	35.5	2.2	40.4	-27.2	50.9	350.7	5000	-23.1
21960.0	H	33.1	2.2	40.6	-26.9	49.0	280.7	60954	-46.7
21960.0	V	35.4	2.2	40.6	-26.9	51.2	363.7	60954	-44.5
24400.0	H	35.2	2.2	40.6	-27.5	50.6	339.1	60954	-45.1
24400.0	V	35.2	2.2	40.6	-27.5	50.6	339.1	60954	-45.1

Checked BY *RICHARD E. KING* :

Richard E. King



Manufacturer : California Eastern Labs  
Test Item : Zigbee Transceiver  
Model No. : ZICM2410P2  
Test Specification : FCC Part 15, Subpart C, Section 15.247, Radiated Emissions  
Date : September 14 through 25, 2009  
Mode : Transmit @ 2440MHz  
Test Distance : 3 meters  
Notes : none

Total = Meter Reading + Cable Loss + Antenna Factor + Preamp Gain + Duty Cycle Factor

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
4880.0	H	56.8	5.7	34.5	-40.1	-11.1	45.8	195.6	500	-8.2
4880.0	V	55.6	5.7	34.5	-40.1	-11.1	44.6	170.5	500	-9.3
7320.0	H	57.0	7.7	38.1	-39.8	-11.1	51.9	394.7	500	-2.1
7320.0	V	56.0	7.7	38.1	-39.8	-11.1	50.9	351.4	500	-3.1
12200.0	H	43.9	9.9	41.4	-39.4	-11.1	44.6	170.8	500	-9.3
12200.0	V	46.3	9.9	41.4	-39.4	-11.1	47.0	224.1	500	-7.0
19520.0	H	35.5	2.2	40.4	-27.2	-11.1	39.8	98.2	500	-14.1
19520.0	V	35.5	2.2	40.4	-27.2	-11.1	39.8	98.2	500	-14.1

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : California Eastern Labs  
Test Item : Zigbee Transceiver  
Model No. : ZICM2410P2  
Test Specification : FCC Part 15, Subpart C, Section 15.247, Radiated Emissions  
Date : October 21 through 23, 2009  
Mode : Transmit @ 2480MHz  
Test Distance : 3 meters  
Notes : none

Total = Meter Reading + Cable Loss + Antenna Factor + Preamp Gain

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
2480.0	H	69.7	3.8	29.5	0.0	103.1	142889.4		
2480.0	V	65.6	3.8	29.5	0.0	98.9	142889.4		
4960.0	H	41.5	5.8	34.5	-40.2	41.6	120.4	5000.0	-32.4
4960.0	V	40.8	5.8	34.5	-40.2	40.9	111.2	5000.0	-33.1
7440.0	H	41.6	7.7	38.1	-39.7	47.7	241.9	5000.0	-26.3
7440.0	V	43.0	7.7	38.1	-39.7	49.1	285.2	5000.0	-24.9
9920.0	H	38.5	8.5	40.0	-38.6	48.4	264.1	14288.9	-34.7
9920.0	V	41.2	8.5	40.0	-38.6	51.1	360.4	14288.9	-32.0
12400.0	H	43.0	9.9	41.3	-39.3	55.0	563.2	5000.0	-19.0
12400.0	V	43.0	9.9	41.3	-39.3	55.0	561.2	5000.0	-19.0
14880.0	H	42.9	1.5	44.5	-40.3	48.7	270.8	14288.9	-34.4
14880.0	V	43.8	1.5	44.5	-40.3	49.5	299.0	14288.9	-33.6
17360.0	H	42.3	2.0	44.4	-39.0	49.6	302.8	14288.9	-33.5
17360.0	V	41.6	2.0	44.4	-39.0	48.9	279.6	14288.9	-34.2
19840.0	H	34.1	2.2	40.4	-26.9	49.8	309.4	5000.0	-24.2
19840.0	V	34.1	2.2	40.4	-26.9	49.8	309.4	5000.0	-24.2
22320.0	H	35.2	2.2	40.6	-27.1	50.9	352.7	5000.0	-23.0
22320.0	V	35.1	2.2	40.6	-27.1	50.8	347.1	5000.0	-23.2
24800.0	H	34.4	2.2	40.7	-27.2	50.1	319.6	14288.9	-33.0
24800.0	V	35.0	2.2	40.7	-27.2	50.6	338.9	14288.9	-32.5

Checked BY *RICHARD E. KING* :

Richard E. King



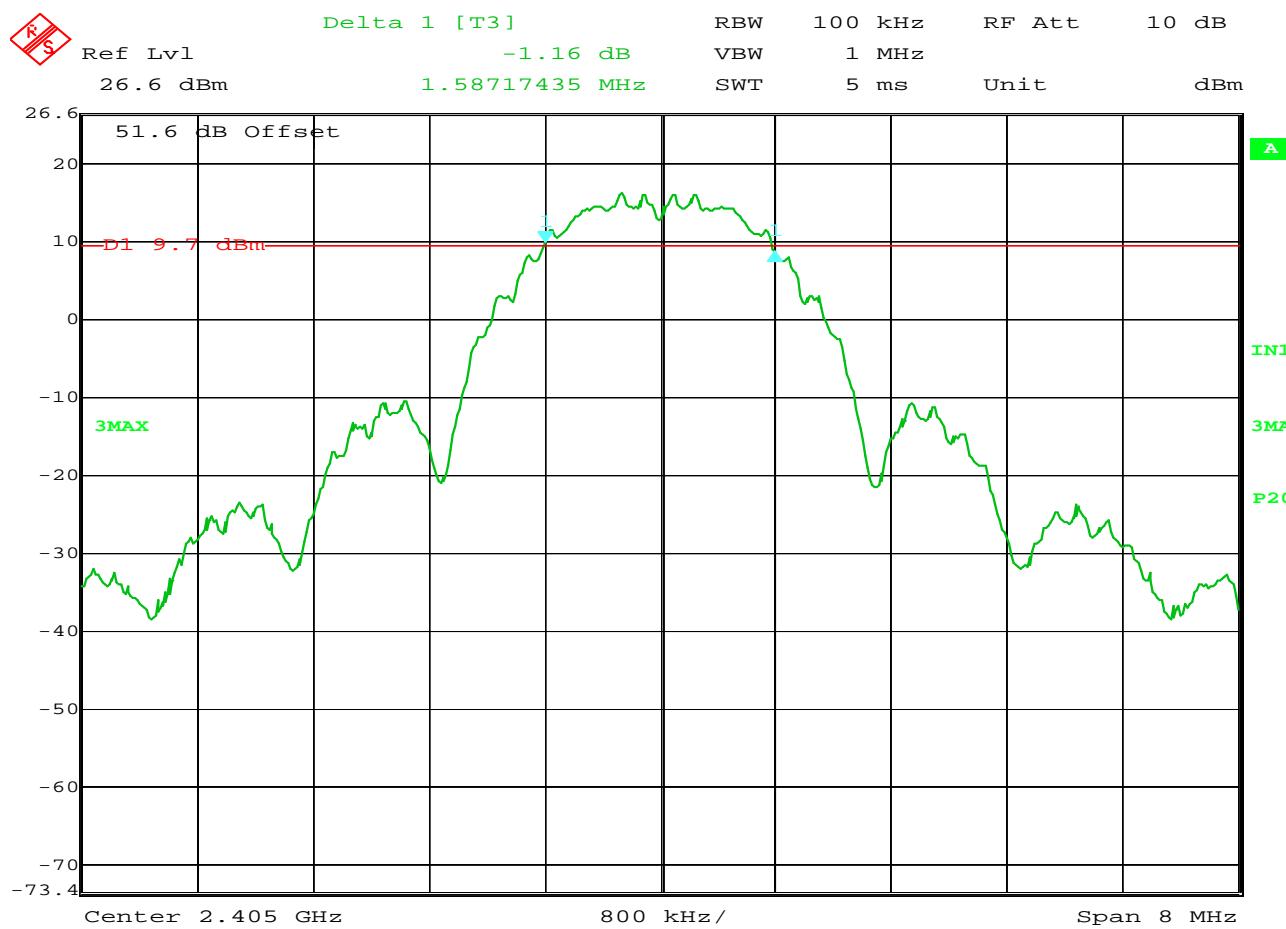
Manufacturer : California Eastern Labs  
Test Item : Zigbee Transceiver  
Model No. : ZICM2410P2  
Test Specification : FCC Part 15, Subpart C, Section 15.247, Radiated Emissions  
Date : October 21 through 23, 2009  
Mode : Transmit @ 2480MHz  
Test Distance : 3 meters  
Notes : none

Total = Meter Reading + Cable Loss + Antenna Factor + Preamp Gain + Duty Cycle Factor

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Total dBuV/m at 3 M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
4950.0	H	41.5	5.8	34.5	-40.2	-11.1	30.5	33.7	500.0	-23.4
4950.0	V	40.8	5.8	34.5	-40.2	-11.1	29.9	31.1	500.0	-24.1
7425.0	H	41.6	7.7	38.1	-39.7	-11.1	36.6	67.6	500.0	-17.4
7425.0	V	43.0	7.7	38.1	-39.7	-11.1	38.0	79.7	500.0	-15.9
12375.0	H	43.0	9.9	41.3	-39.3	-11.1	43.9	157.1	500.0	-10.1
12375.0	V	43.0	9.9	41.3	-39.3	-11.1	43.9	156.6	500.0	-10.1
19800.0	H	34.1	2.2	40.4	-26.9	-11.1	38.7	86.2	500.0	-15.3
19800.0	V	34.1	2.2	40.4	-26.9	-11.1	38.7	86.2	500.0	-15.3
22275.0	H	35.2	2.2	40.6	-27.1	-11.1	39.9	98.8	500.0	-14.1
22275.0	V	35.1	2.2	40.6	-27.1	-11.1	39.8	97.2	500.0	-14.2

Checked BY *RICHARD E. KING* :

Richard E. King



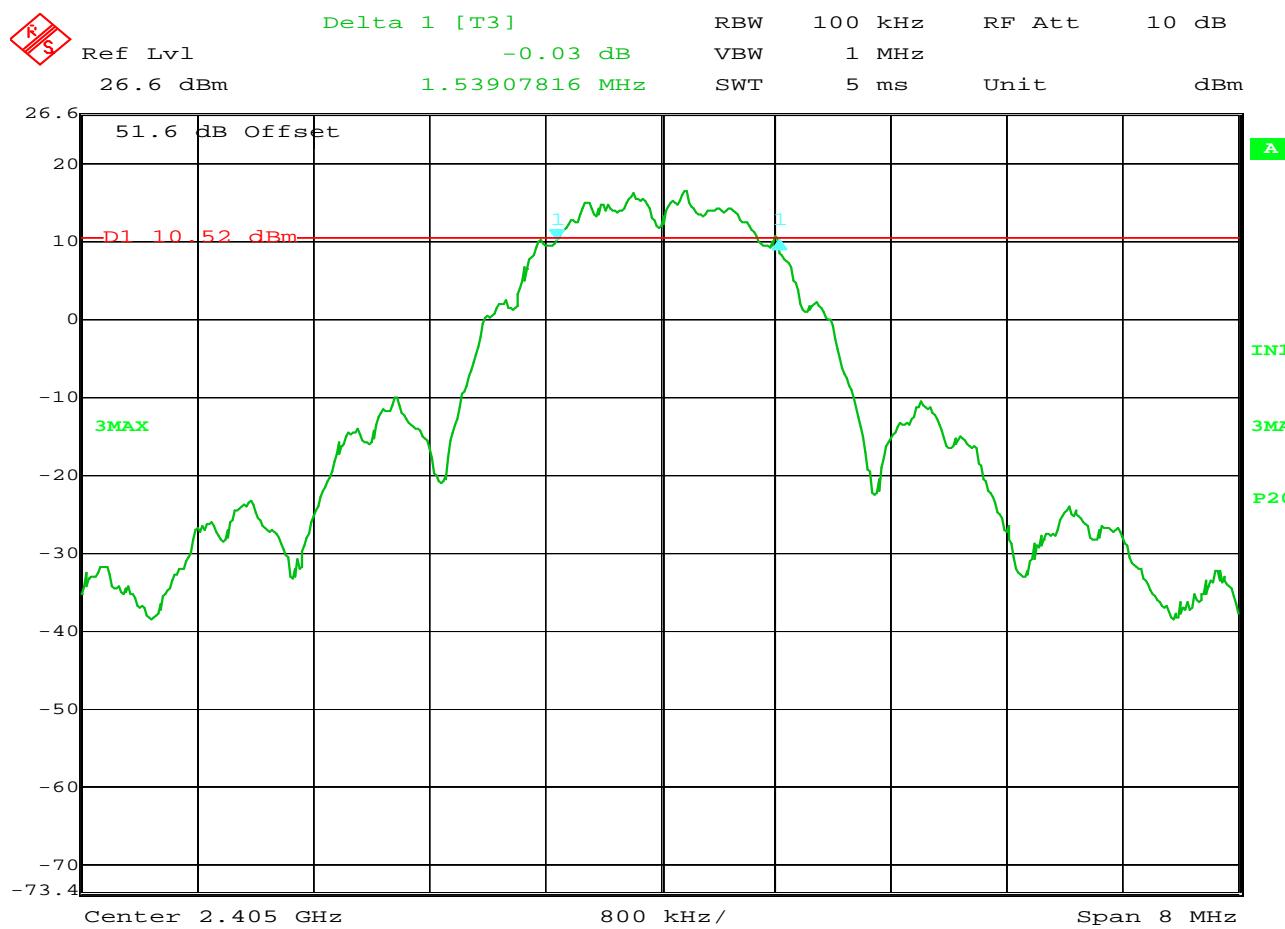
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#### FCC 15.247 6dB Bandwidth

MANUFACTURER	:	California Eastern Labs
TEST ITEM	:	Zigbee Transceiver
MODEL NUMBER	:	ZICM2410P2
TEST MODE	:	Transmit @ 2405MHz
TEST PARAMETERS	:	6dB bandwidth at 2405MHz
DATA RATE	:	250kHz
NOTES	:	

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#### NOTES

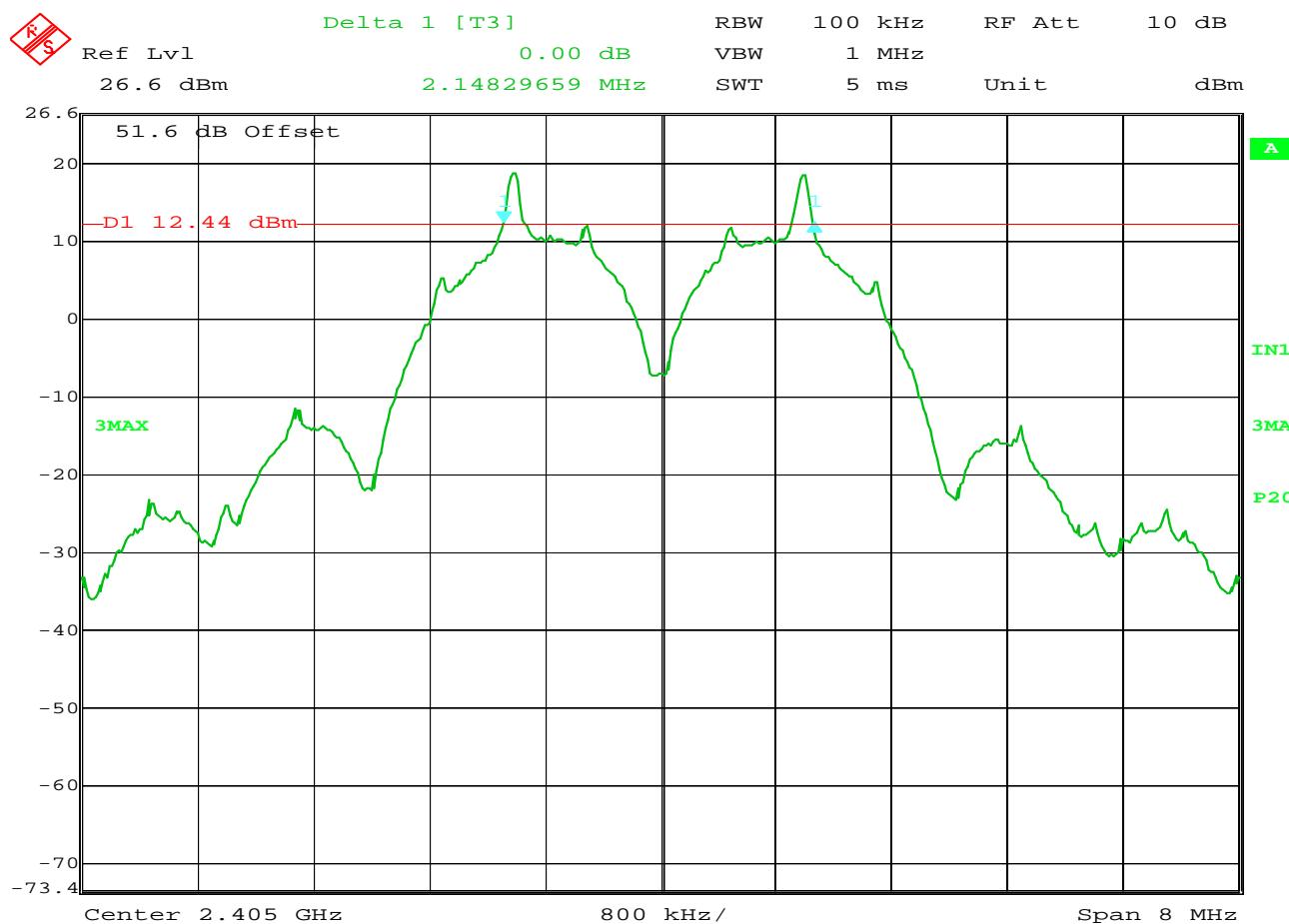


#### FCC 15.247 6dB Bandwidth

MANUFACTURER	:	California Eastern Labs
TEST ITEM	:	Zigbee Transceiver
MODEL NUMBER	:	ZICM2410P2
TEST MODE	:	Transmit @ 2405MHz
TEST PARAMETERS	:	6dB bandwidth at 2405MHz
DATA RATE	:	500kHz
NOTES	:	

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#### NOTES



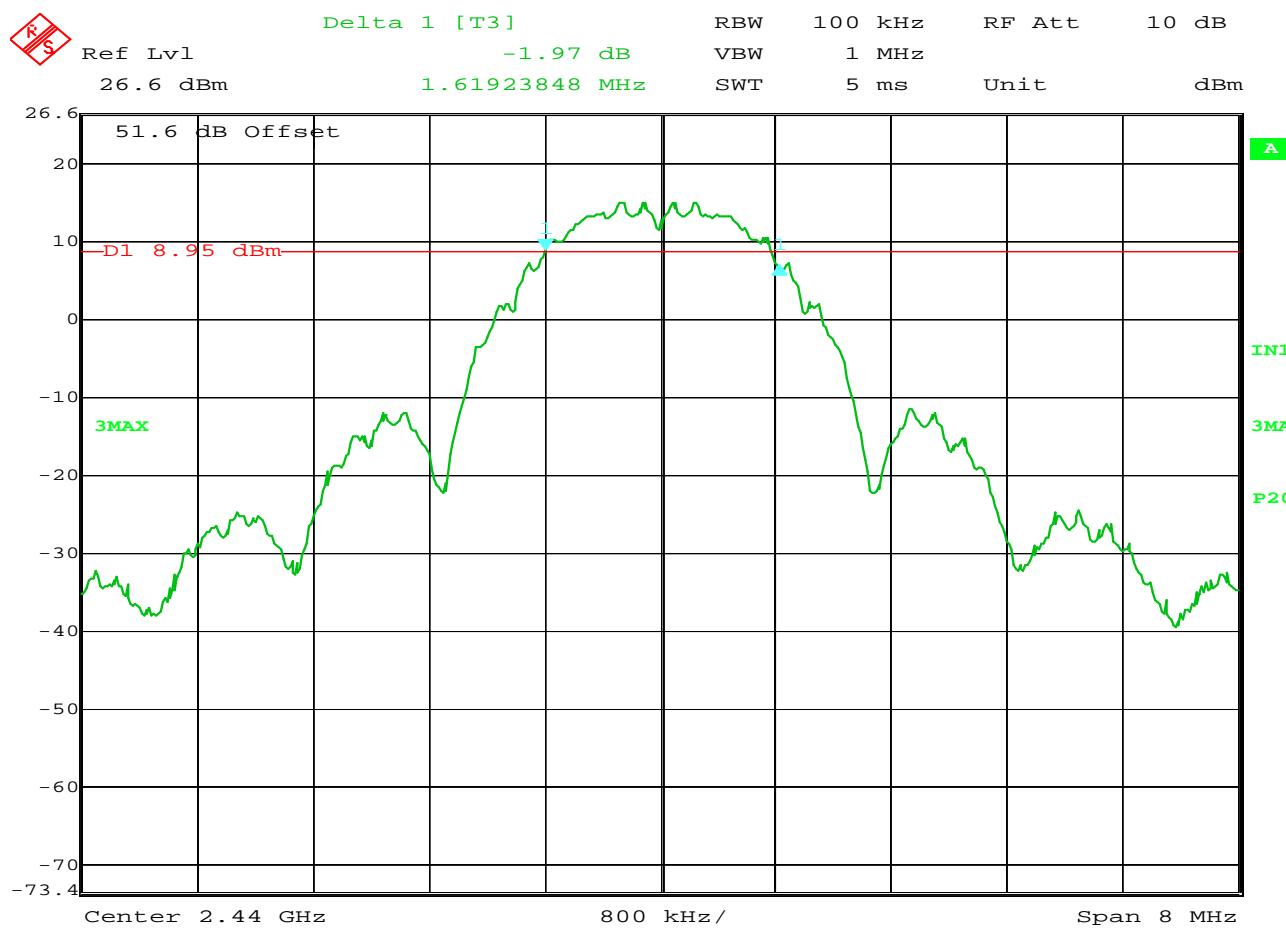
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### FCC 15.247 6dB Bandwidth

MANUFACTURER	: California Eastern Labs
TEST ITEM	: Zigbee Transceiver
MODEL NUMBER	: ZICM2410P2
TEST MODE	: Transmit @ 2405MHz
TEST PARAMETERS	: 6dB bandwidth at 2405MHz
DATA RATE	: 1MBPS
NOTES	:

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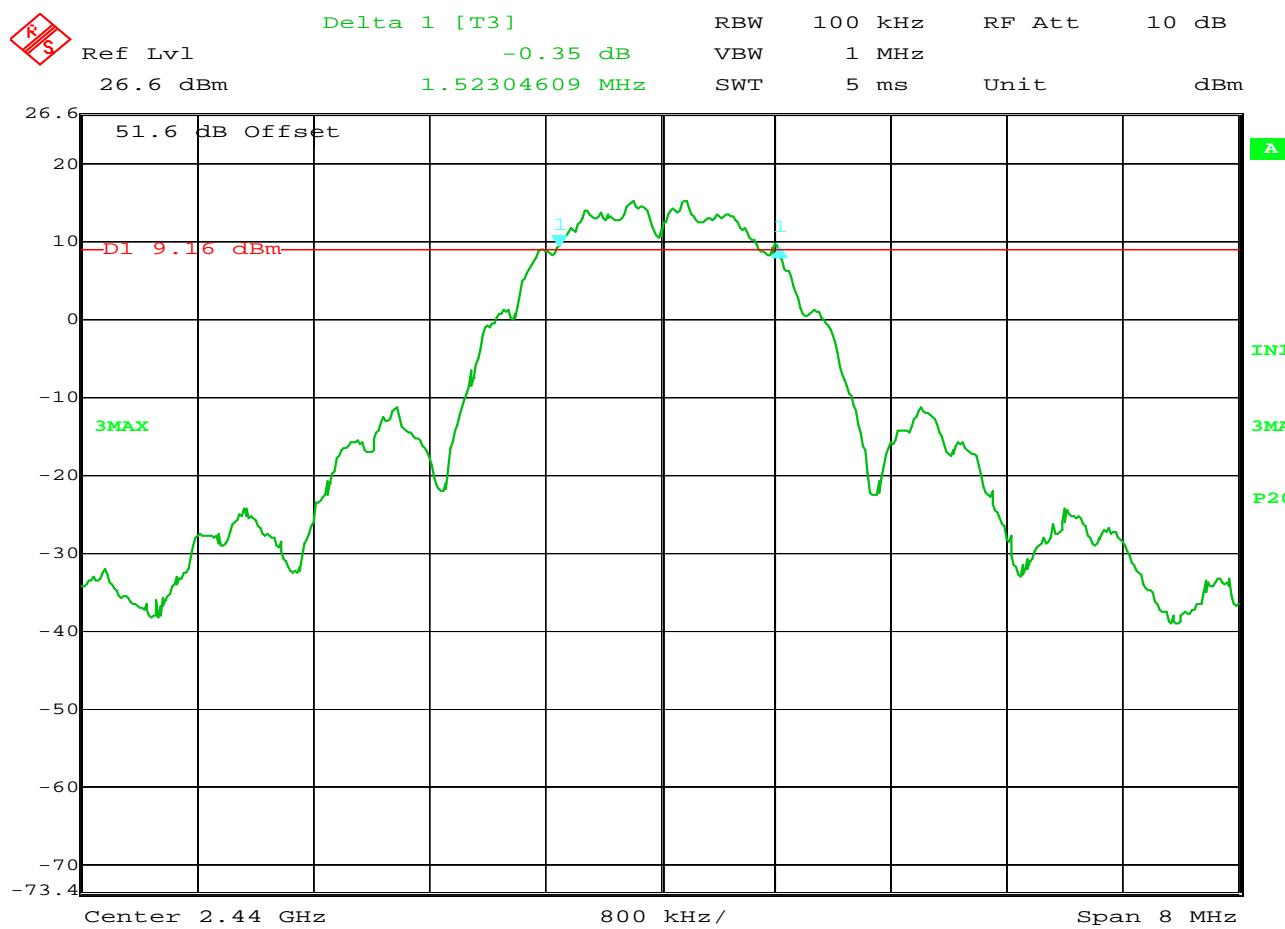
### NOTES



Date: 24.SEP.2009 22:47:18

#### FCC 15.247 6dB Bandwidth

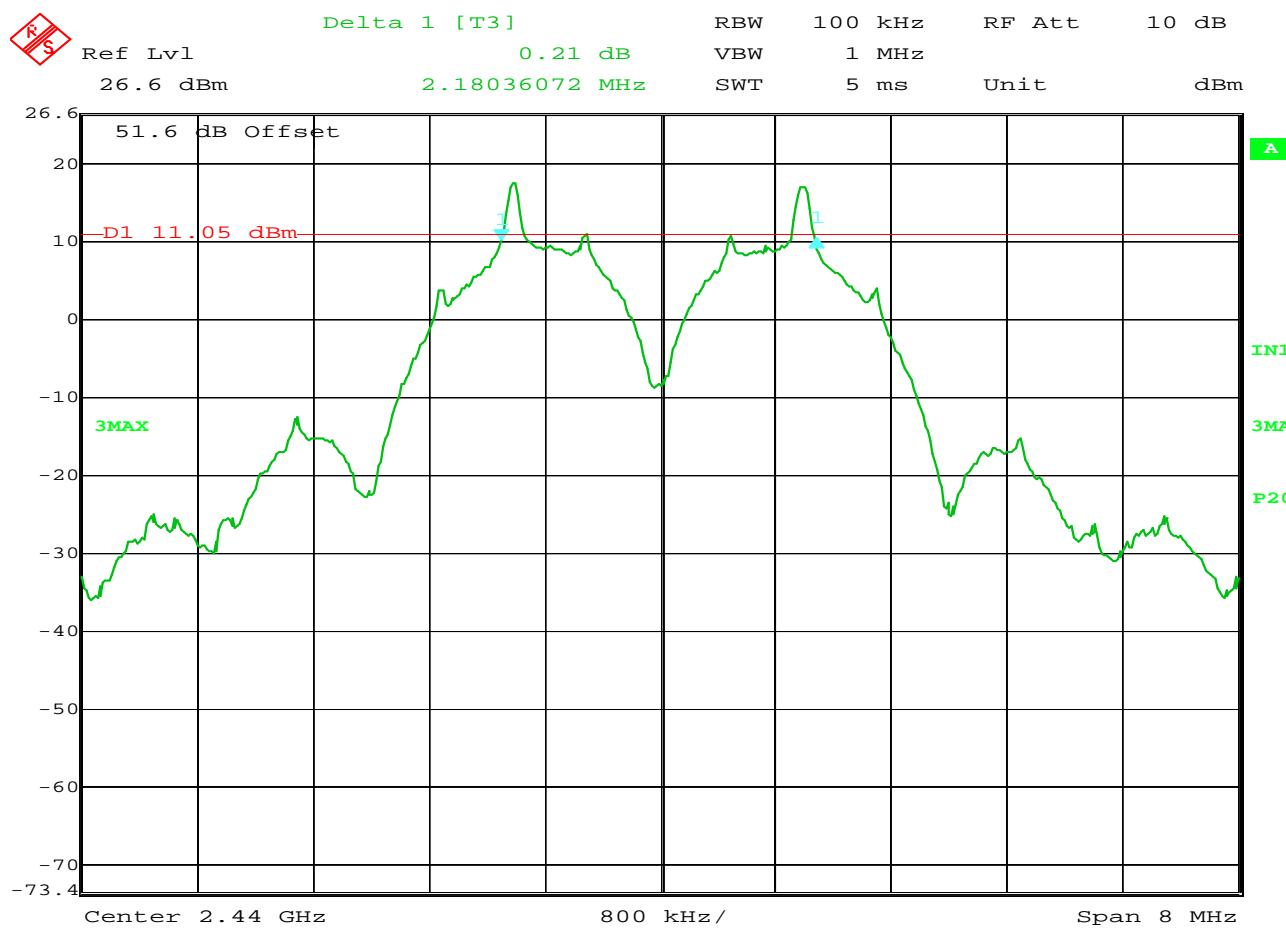
MANUFACTURER	: California Eastern Labs
TEST ITEM	: Zigbee Transceiver
MODEL NUMBER	: ZICM2410P2
TEST MODE	: Transmit @ 2440MHz
TEST PARAMETERS	: 6dB bandwidth at 2440MHz
DATA RATE	: 250kHz
NOTES	:



Date: 24.SEP.2009 22:46:16

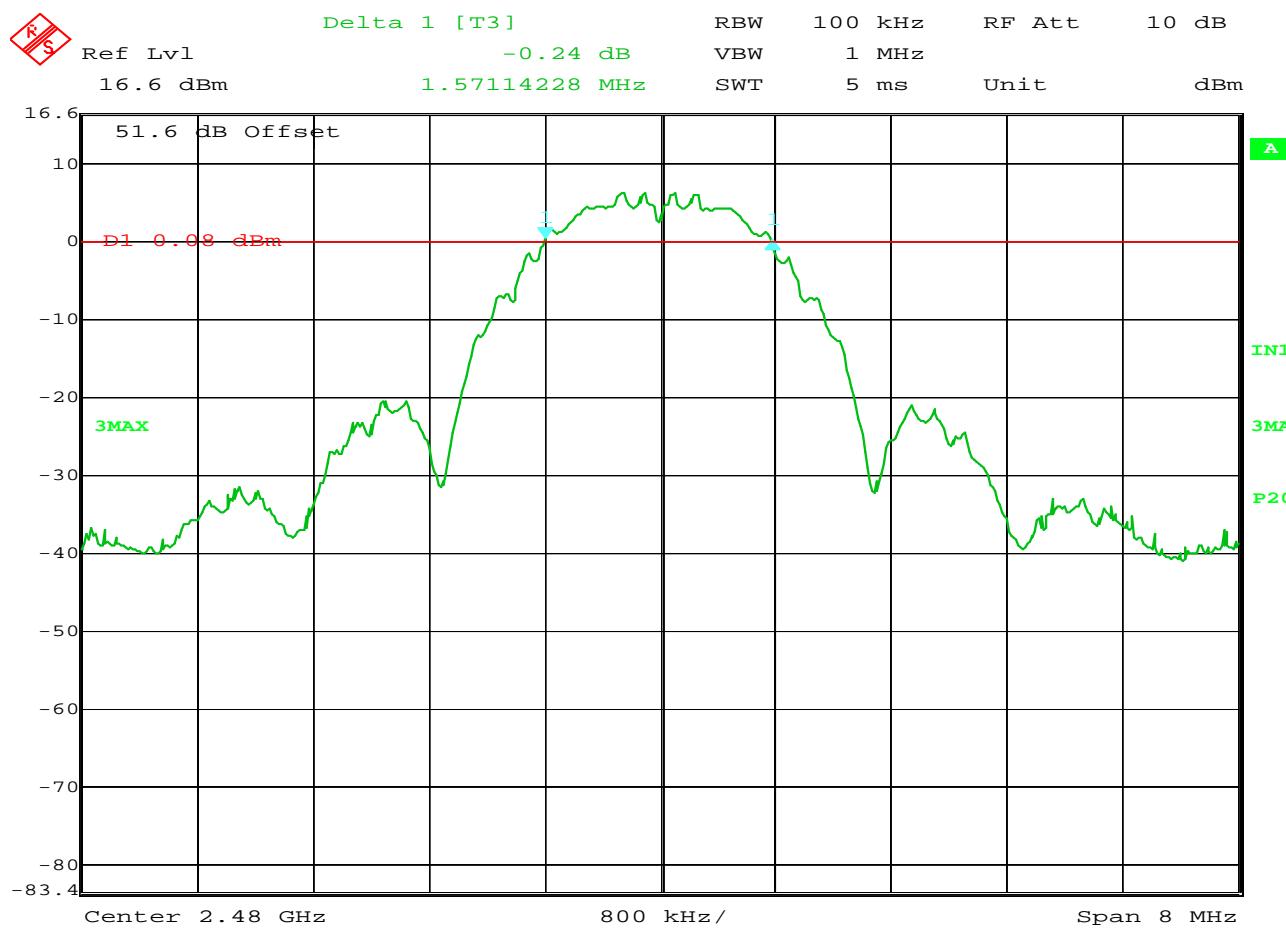
#### FCC 15.247 6dB Bandwidth

MANUFACTURER	: California Eastern Labs
TEST ITEM	: Zigbee Transceiver
MODEL NUMBER	: ZICM2410P2
TEST MODE	: Transmit @ 2440MHz
TEST PARAMETERS	: 6dB bandwidth at 2440MHz
DATA RATE	: 500kHz
NOTES	:



### FCC 15.247 6dB Bandwidth

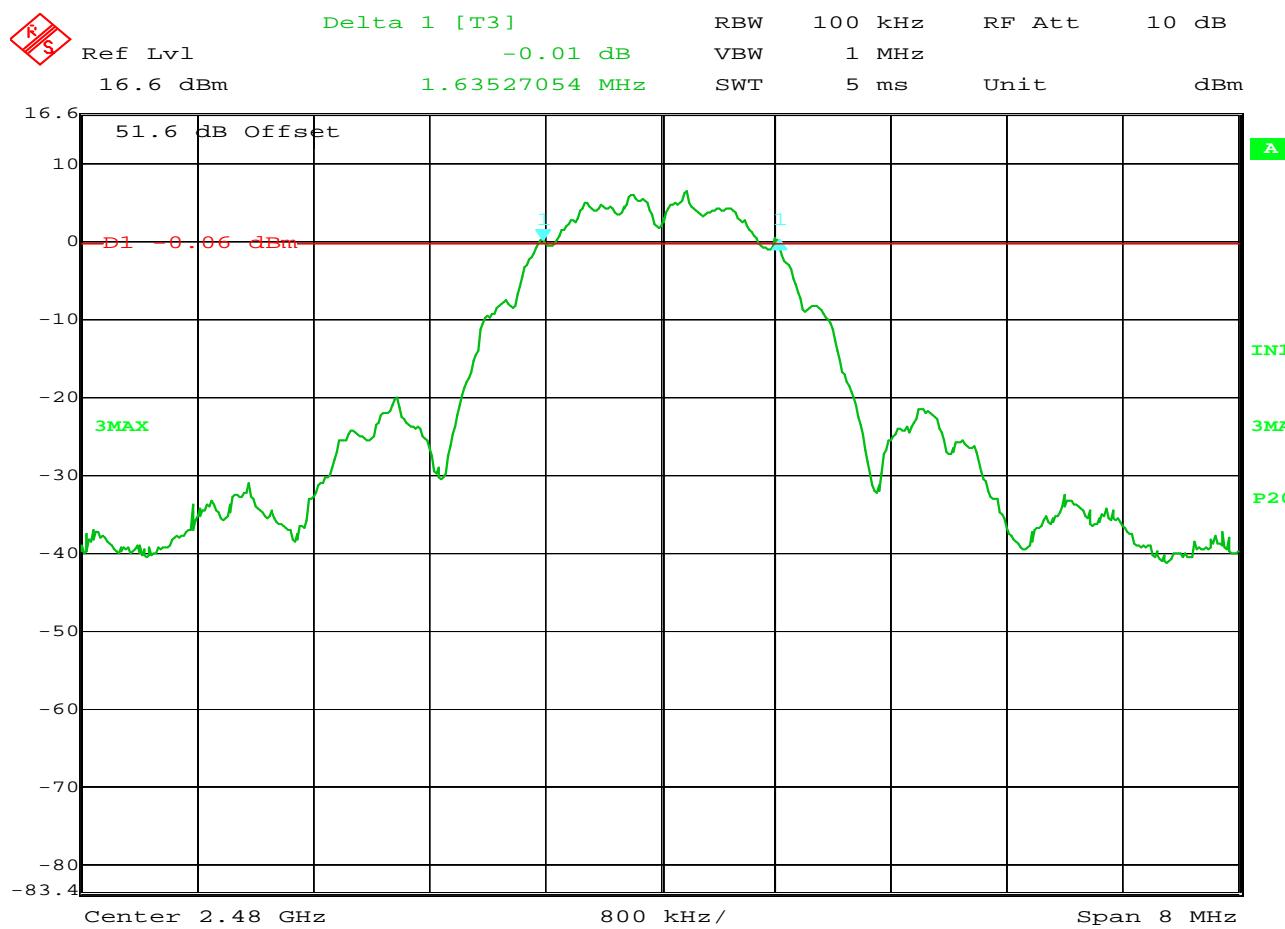
MANUFACTURER	:	California Eastern Labs
TEST ITEM	:	Zigbee Transceiver
MODEL NUMBER	:	ZICM2410P2
TEST MODE	:	Transmit @ 2440MHz
TEST PARAMETERS	:	6dB bandwidth at 2440MHz
DATA RATE	:	1MBPS
NOTES	:	



Date: 6.NOV.2009 07:29:28

### FCC 15.247 6dB Bandwidth

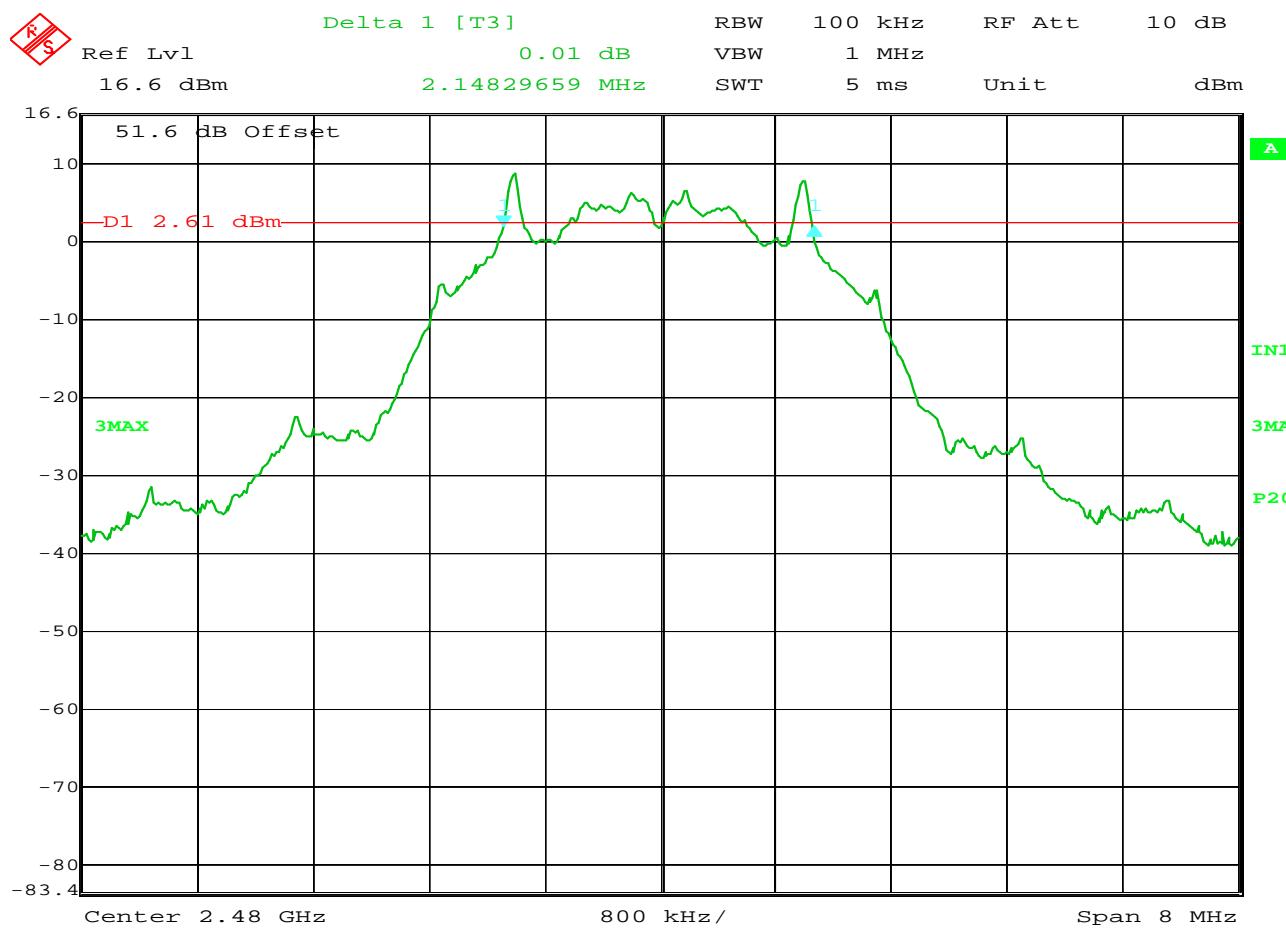
MANUFACTURER : California Eastern Labs  
TEST ITEM : Zigbee Transceiver  
MODEL NUMBER : ZICM2410P2  
TEST MODE : Transmit @ 2480MHz  
TEST PARAMETERS : 6dB bandwidth at 2480MHz  
DATA RATE : 250kHz  
NOTES :



Date: 6.NOV.2009 07:31:28

#### FCC 15.247 6dB Bandwidth

MANUFACTURER	:	California Eastern Labs
TEST ITEM	:	Zigbee Transceiver
MODEL NUMBER	:	ZICM2410P2
TEST MODE	:	Transmit @ 2480MHz
TEST PARAMETERS	:	6dB bandwidth at 2480MHz
DATA RATE	:	500kHz
NOTES	:	



Date: 6.NOV.2009 07:32:44

### FCC 15.247 6dB Bandwidth

MANUFACTURER	:	California Eastern Labs
TEST ITEM	:	Zigbee Transceiver
MODEL NUMBER	:	ZICM2410P2
TEST MODE	:	Transmit @ 2480MHz
TEST PARAMETERS	:	6dB bandwidth at 2480MHz
DATA RATE	:	1mbps
NOTES	:	



## DATA SHEET

Manufacturer : California Eastern Labs  
Test Item : Zigbee Transceiver  
Model No. : ZICM2410P2  
Test Specification : FCC Part 15, Subpart C, Section 15.247, Peak Output Power  
Date : September 14 through October 23, 2009  
Notes :

Freq (MHz)	Total (dBm)	Total (Watts)	Limit (dBm)	Limit (Watts)
2405.0	18.23	0.067	30	1
2440.0	15.77	0.038	30	1
2480.0	7.11	0.005	30	1

Checked BY *RICHARD E. KING* :

Richard E. King



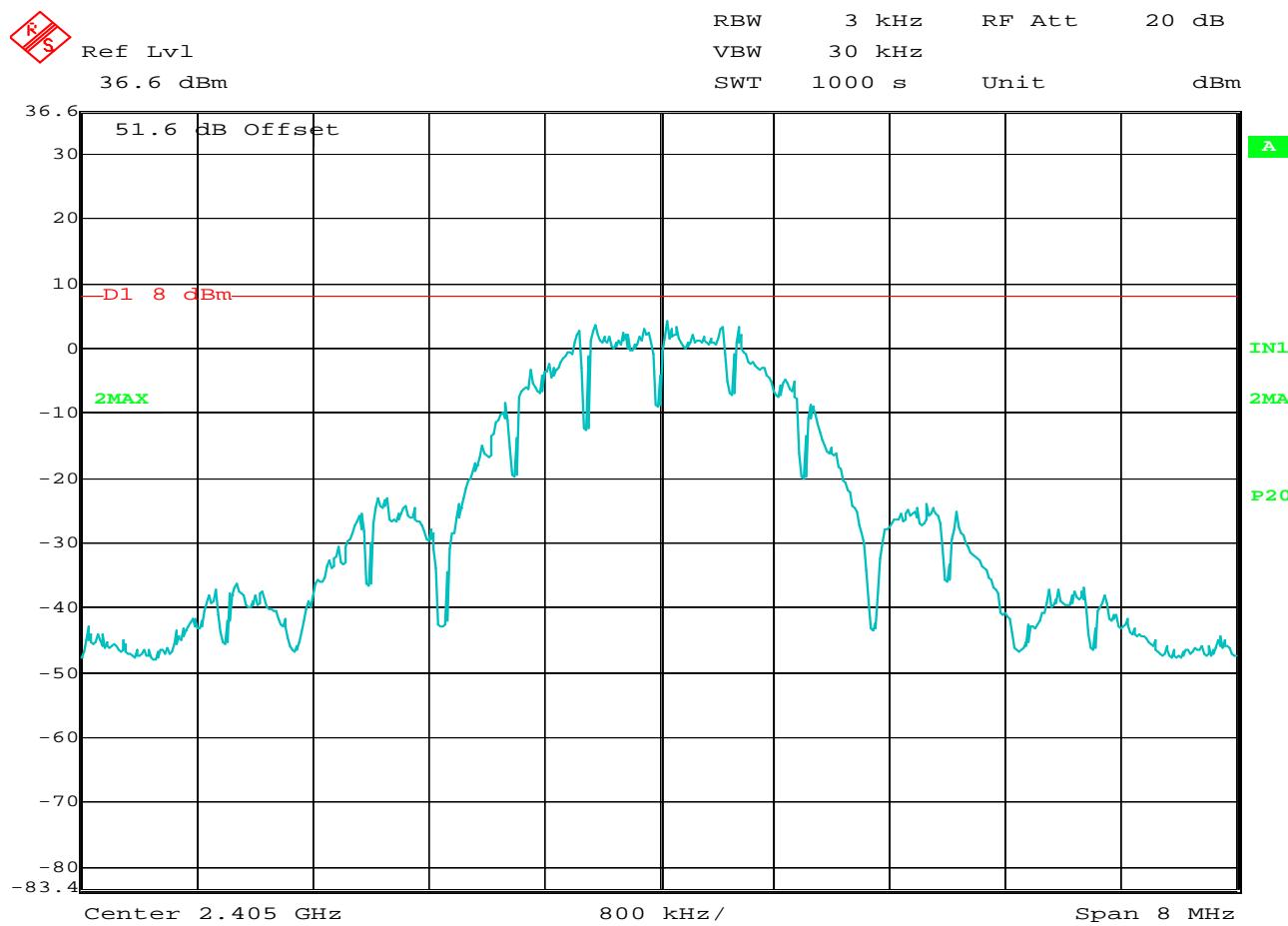
## DATA SHEET

Manufacturer : California Eastern Labs  
Test Item : Zigbee Transceiver  
Model No. : ZICM2410P2  
Test Specification : FCC Part 15, Subpart C, Section 15.247, Radiated Peak Output Power  
Date : September 14 through October 23, 2009  
Notes : EIRP = Matched Signal - Cable Loss + Antenna Gain

Freq (MHz)	Ant Pol	Meter Reading (dBuV)	Matched			Total (dBm)	Limit
			SIG. GEN. (dB)	Ant Gain (dB)	CBL (dB)		
2405.0	H	90.5	17.8	5.3	3.0	20.1	36
2405.0	V	82.1	9.4	5.3	3.0	11.7	36
2440.0	H	84.9	15.7	5.4	3.1	18.0	36
2440.0	V	82.1	8.3	5.4	3.1	10.6	36
2480.0	H	73.9	11.5	5.4	3.1	13.8	36
2480.0	V	67.2	9.1	5.4	3.1	11.4	36

Checked BY *RICHARD E. KING* :

Richard E. King

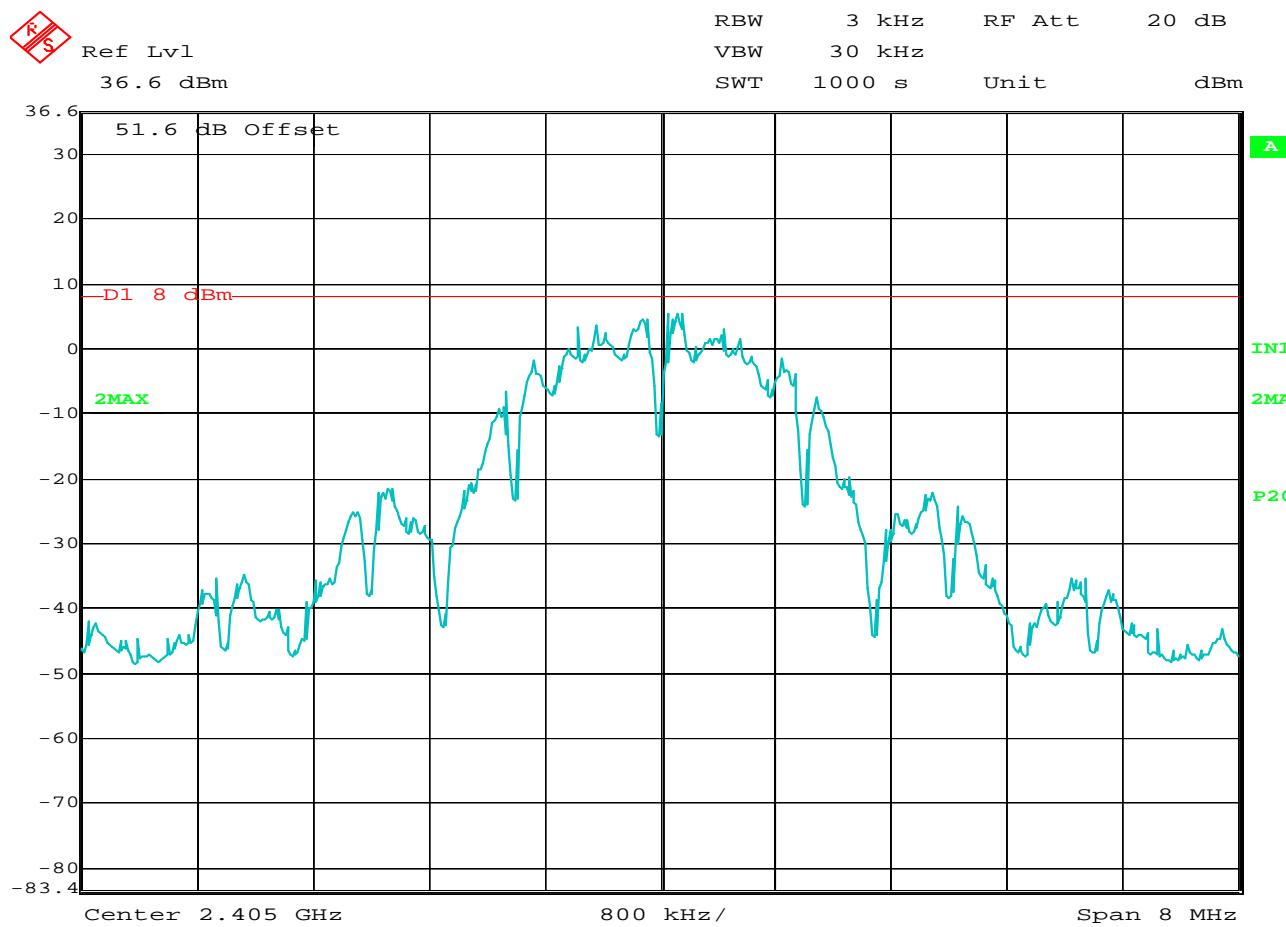


### FCC 15.247 Power Spectral Density

MANUFACTURER : California Eastern Labs  
 TEST ITEM : Zigbee Transceiver  
 MODEL NUMBER : ZICM2410P2  
 TEST MODE : Transmit @ 2405MHz  
 TEST PARAMETERS : Power Spectral Density at 2405MHz  
 NOTES : 250k data rate

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NOTES



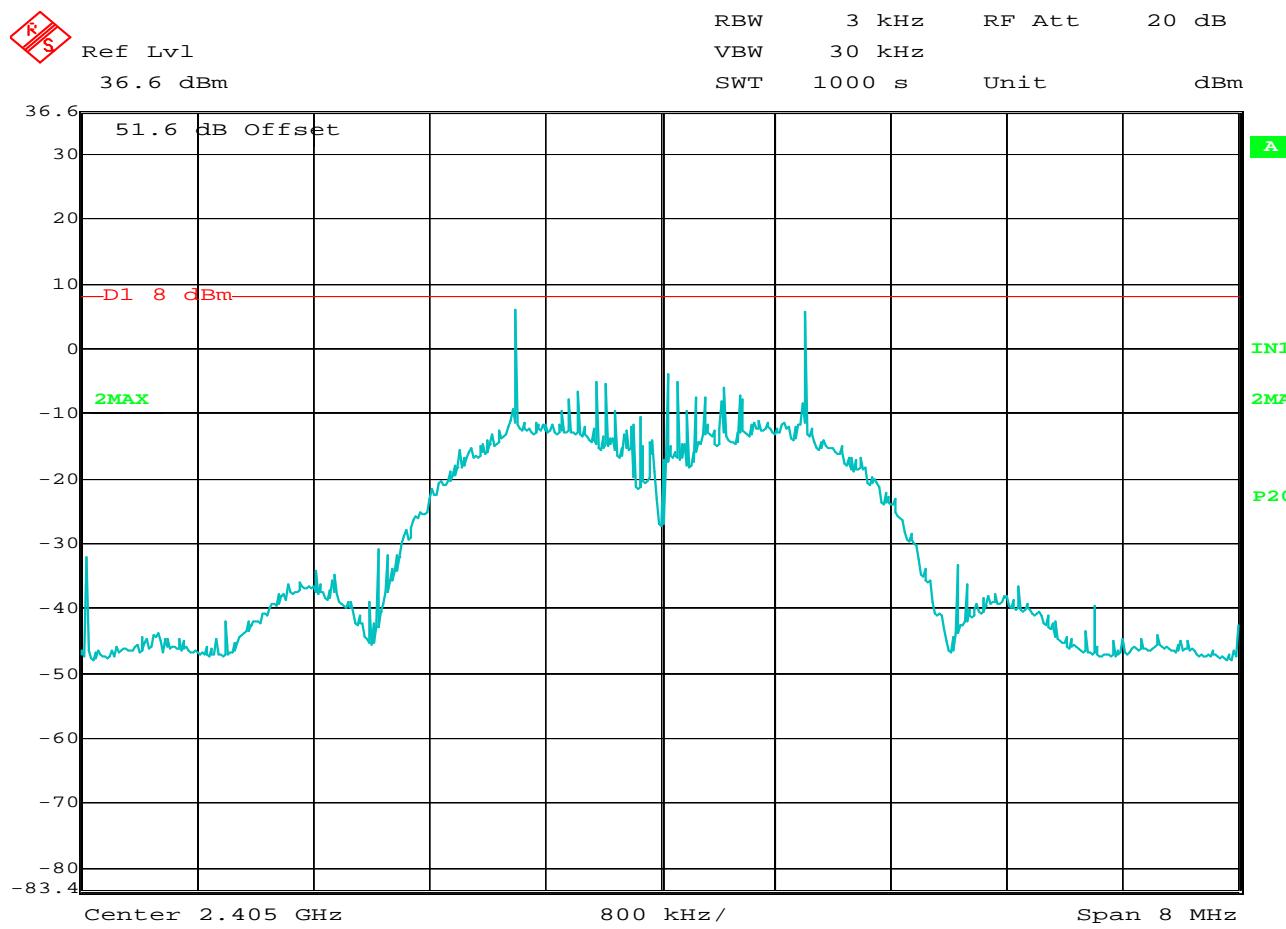
Date: 24.SEP.2009 21:43:31

### FCC 15.247 Power Spectral Density

MANUFACTURER : California Eastern Labs  
TEST ITEM : Zigbee Transceiver  
MODEL NUMBER : ZICM2410P2  
TEST MODE : Transmit @ 2405MHz  
TEST PARAMETERS : Power Spectral Density at 2405MHz  
NOTES : 500k data rate

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NOTES



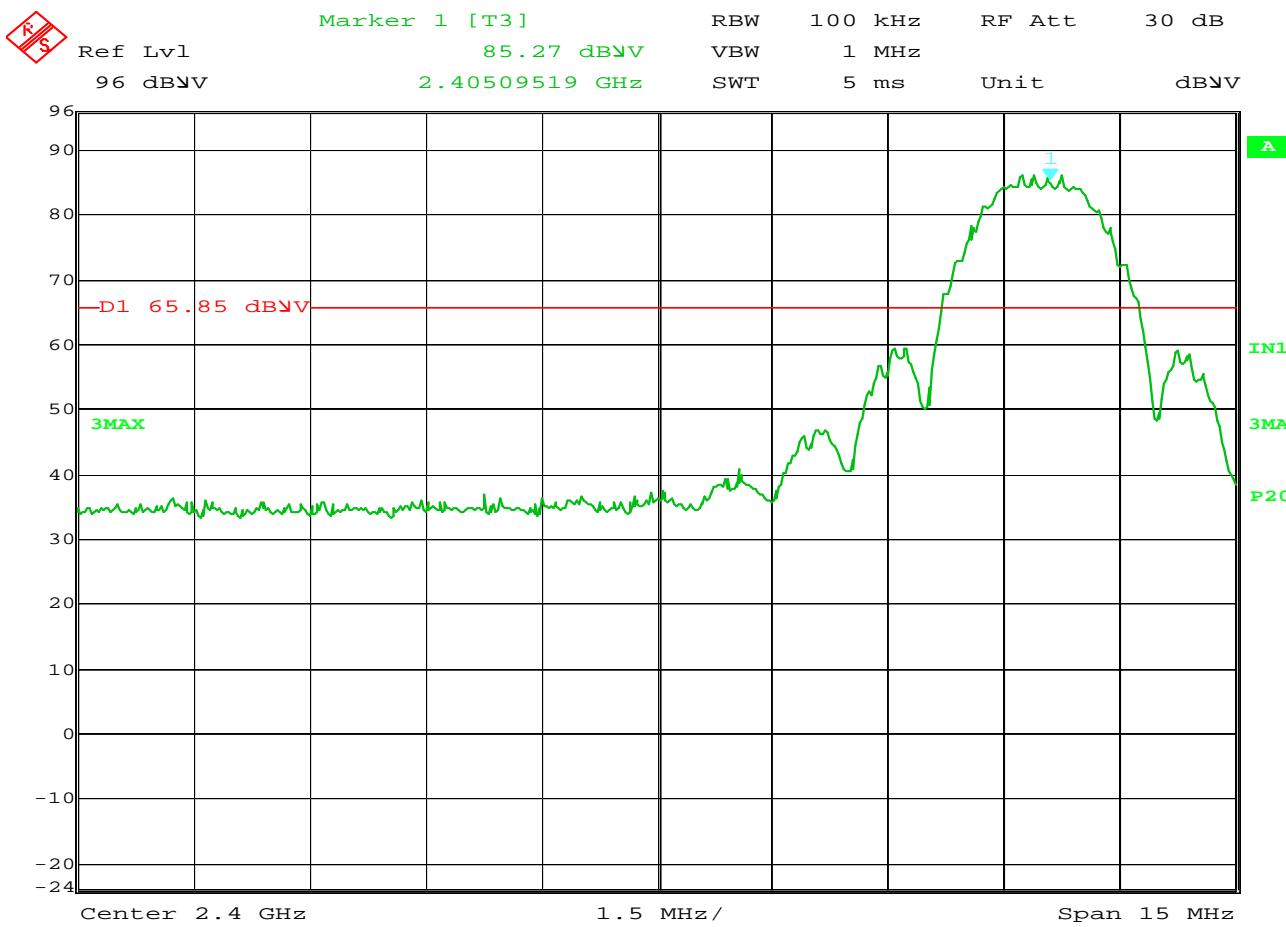
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### FCC 15.247 Power Spectral Density

MANUFACTURER : California Eastern Labs  
 TEST ITEM : Zigbee Transceiver  
 MODEL NUMBER : ZICM2410P2  
 TEST MODE : Transmit @ 2405MHz  
 TEST PARAMETERS : Power Spectral Density at 2405MHz  
 NOTES : 1Mbps data rate

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NOTES



Date: 14.SEP.2009 18:27:50

### FCC 15.247 Band Edge Compliance

MANUFACTURER : California Eastern Labs  
TEST ITEM : Zigbee Transceiver  
MODEL NUMBER : ZICM2410P2  
TEST MODE : Transmit @ 2405MHz  
TEST PARAMETERS : Band Edge Compliance at 2400MHz  
NOTES : Center is at 2400MHz

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### NOTES



Manufacturer : California Eastern Labs  
Test Item : Zigbee Transceiver  
Model No. : ZICM2410P2  
Test Specification : FCC Part 15, Subpart C, Section 15.247, Band-edge compliance  
Date : October 23, 2009  
Mode : Transmit @ 2480MHz  
Test Distance : 3 meters  
Notes : none

Frequency MHz	Antenna Polarity	Meter Reading dBuV	Amb	Cable Loss dB	Antenna Factor dB	Total dBuV/m	Total uV/m	Limit uV/m
2483.5	H	20.3		3.8	29.5	53.6	481.4	500
2483.5	V	18.4		3.8	29.5	51.8	388.1	500

Total = Meter Reading + Cable Loss + Antenna Factor

Checked BY RICHARD E. KING :

Richard E. King