

ELITE ELECTRONIC ENGINEERING Inc.

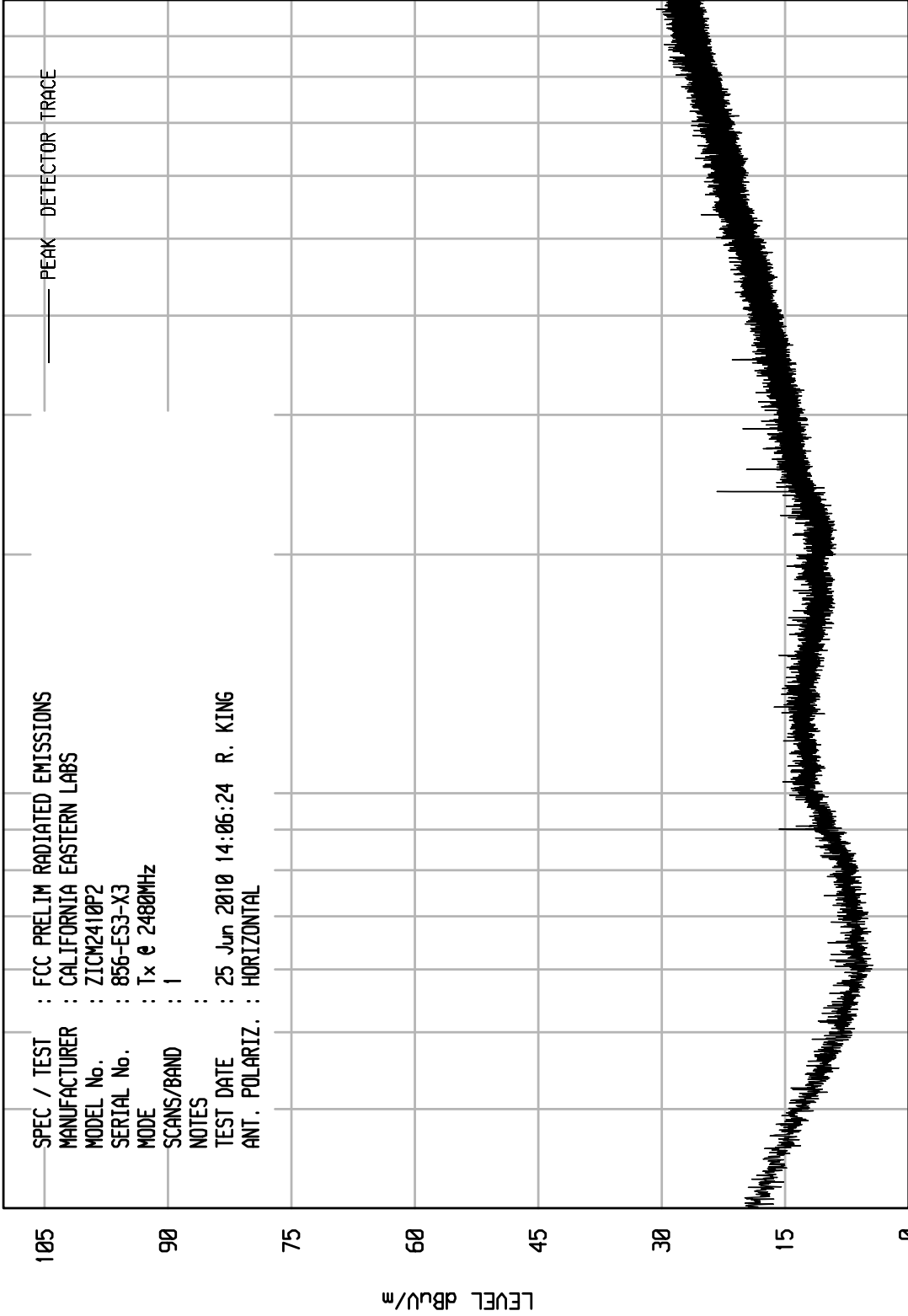
Downers Grove, Ill. 60515

UNIU RCU EMI RUN 17

UKA1 01/25/10

SPEC / TEST : FCC PRELIM RADIATED EMISSIONS
MANUFACTURER : CALIFORNIA EASTERN LABS
MODEL No. : ZICM2410P2
SERIAL No. : 856-ES3-X3
MODE : Tx @ 2480MHz
SCANS/BAND : 1
NOTES :
TEST DATE : 25 Jun 2010 14:06:24 R. KING
ANT. POLARIZ. : HORIZONTAL

— PEAK DETECTOR TRACE



START = 30

100

FREQUENCY MHz

STOP = 1000

ELITE ELECTRONIC ENGINEERING Inc.

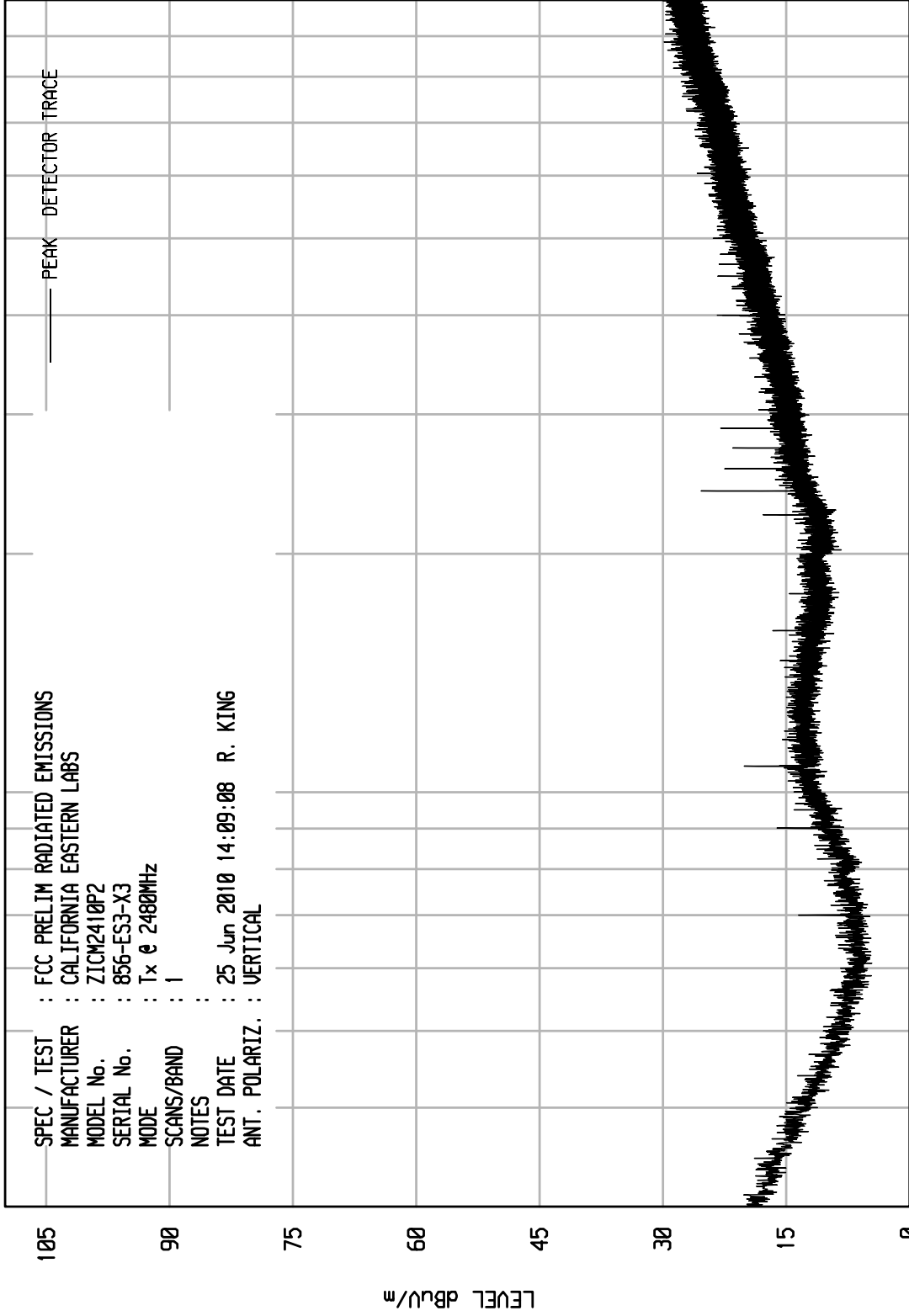
Downers Grove, Ill. 60515

UKA1 01/25/10

UNIV RCU EMI RUN 18

SPEC / TEST : FCC PRELIM RADIATED EMISSIONS
MANUFACTURER : CALIFORNIA EASTERN LABS
MODEL No. : ZICM2410P2
SERIAL No. : 856-ES3-X3
MODE : Tx @ 2480MHz
SCANS/BAND : 1
NOTES :
TEST DATE : 25 Jun 2010 14:09:08 R. KING
ANT. POLARIZ. : VERTICAL

— PEAK DETECTOR TRACE



START = 30

100

FREQUENCY MHz

STOP = 1000

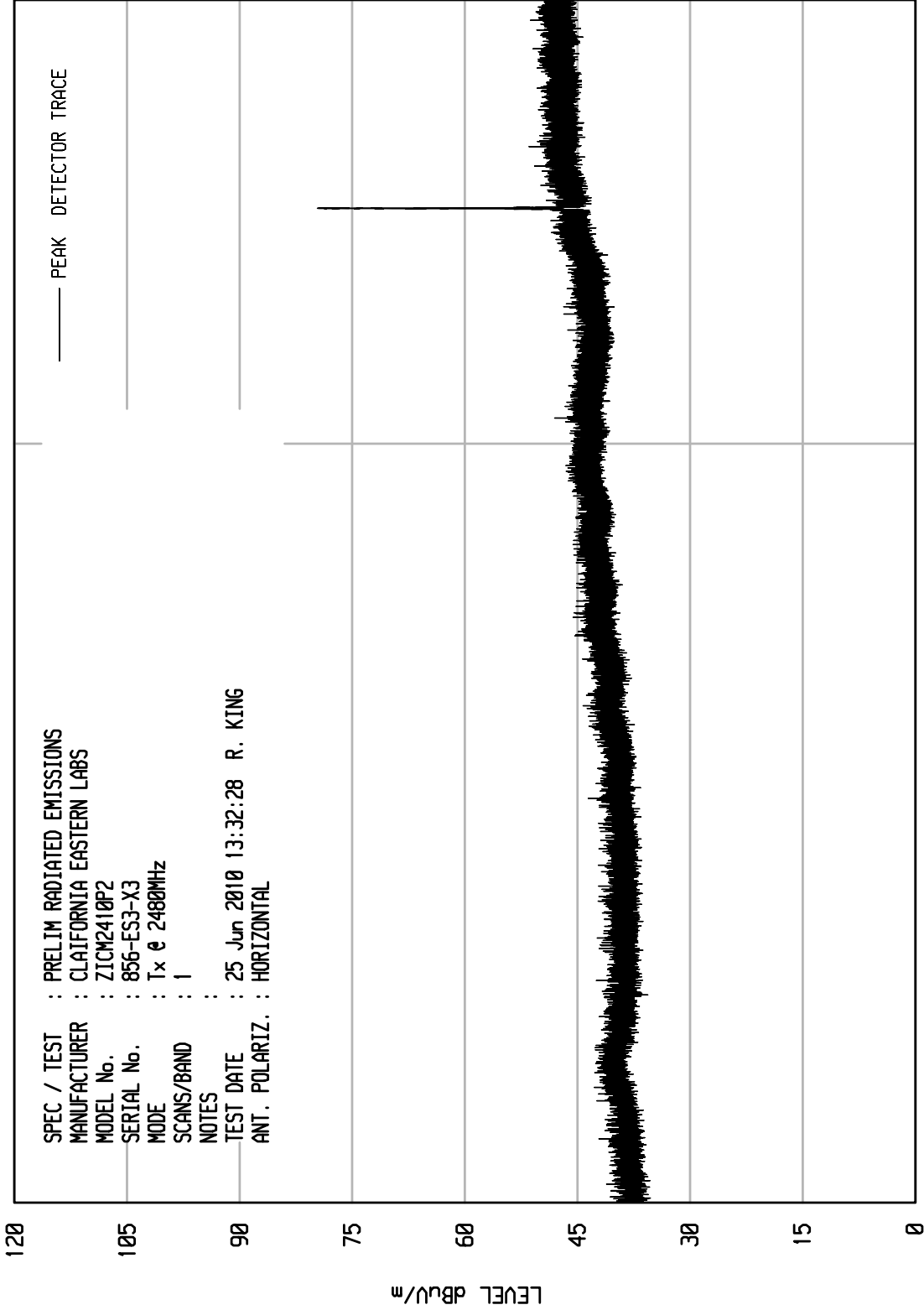
ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

UNIV RCU EMI RUN 8

UKA1 01/25/10

SPEC / TEST : PRELIM RADIATED EMISSIONS
MANUFACTURER : CALIFORNIA EASTERN LABS
MODEL No. : ZICM2410P2
SERIAL No. : 856-ES3-X3
MODE : Tx @ 2480MHz
SCANS/BAND : 1
NOTES :
TEST DATE : 25 Jun 2010 13:32:28 R. KING
ANT. POLARIZ. : HORIZONTAL



START = 1000

FREQUENCY MHz

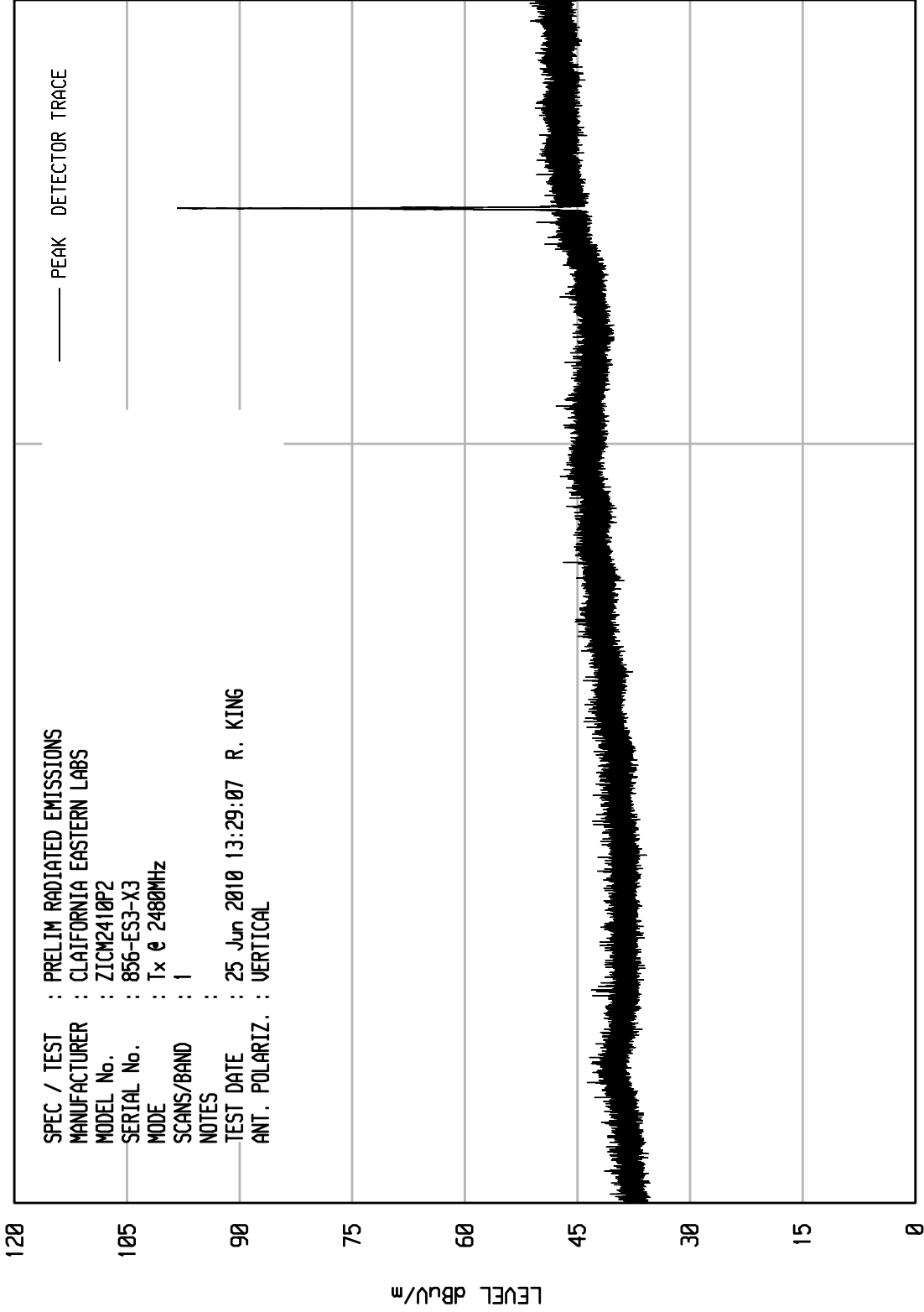
STOP = 3000

ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

UNIV RCU EMI RUN 7

UKA1 01/25/10



START = 1000

FREQUENCY MHz

STOP = 3000

ELITE ELECTRONIC ENGINEERING Inc.

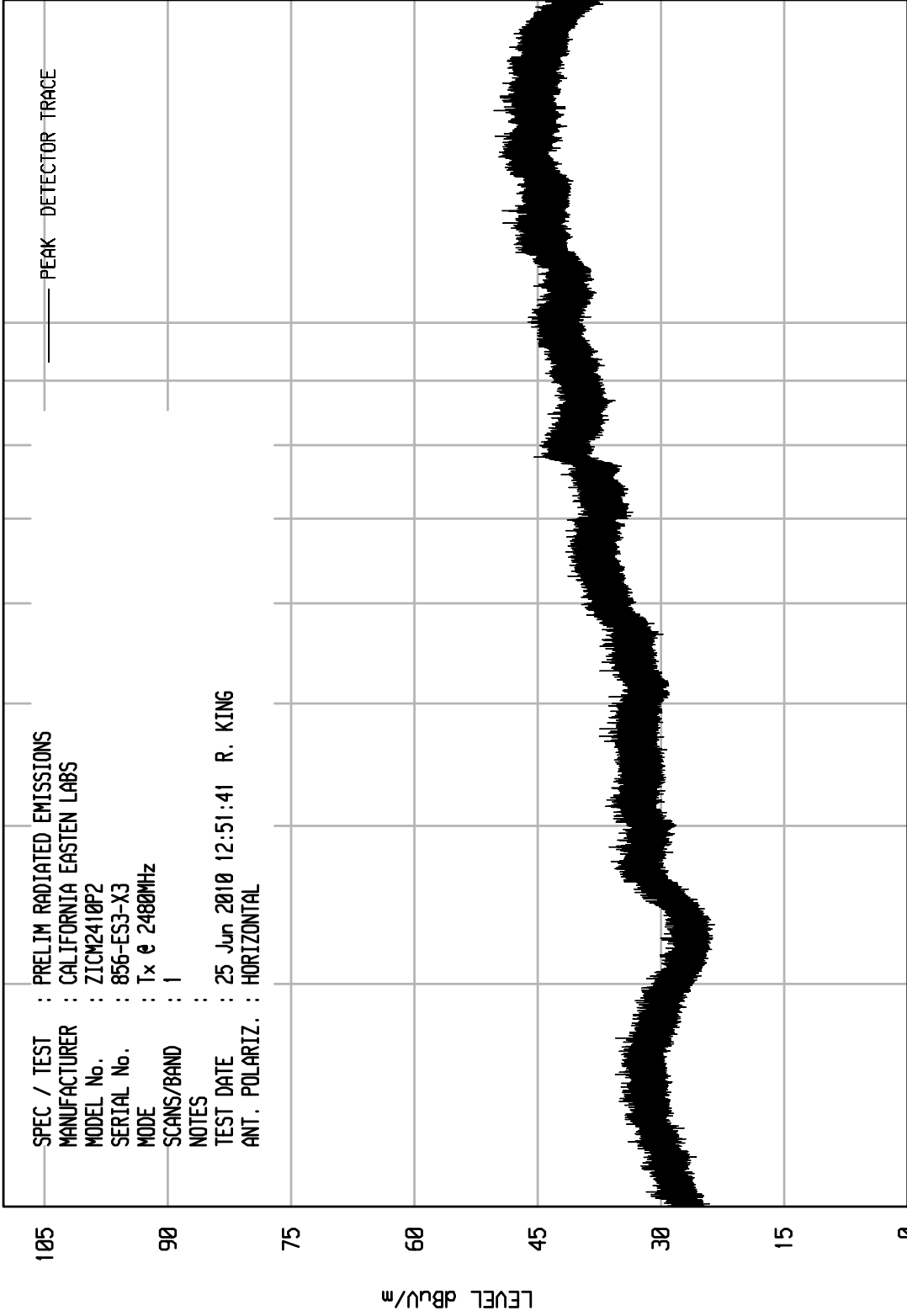
Downers Grove, Ill. 60515

UKA1 01/25/10

UNIV RCU EMI RUN 5

SPEC / TEST : PRELIM RADIATED EMISSIONS
MANUFACTURER : CALIFORNIA EASTEN LABS
MODEL No. : ZICM2410P2
SERIAL No. : 856-ES3-X3
MODE : Tx @ 2480MHz
SCANS/BAND : 1
NOTES :
TEST DATE : 25 Jun 2010 12:51:41 R. KING
ANT. POLARIZ. : HORIZONTAL

— PEAK DETECTOR TRACE



START = 2000

10000

FREQUENCY MHz

STOP = 18000

ELITE ELECTRONIC ENGINEERING Inc.

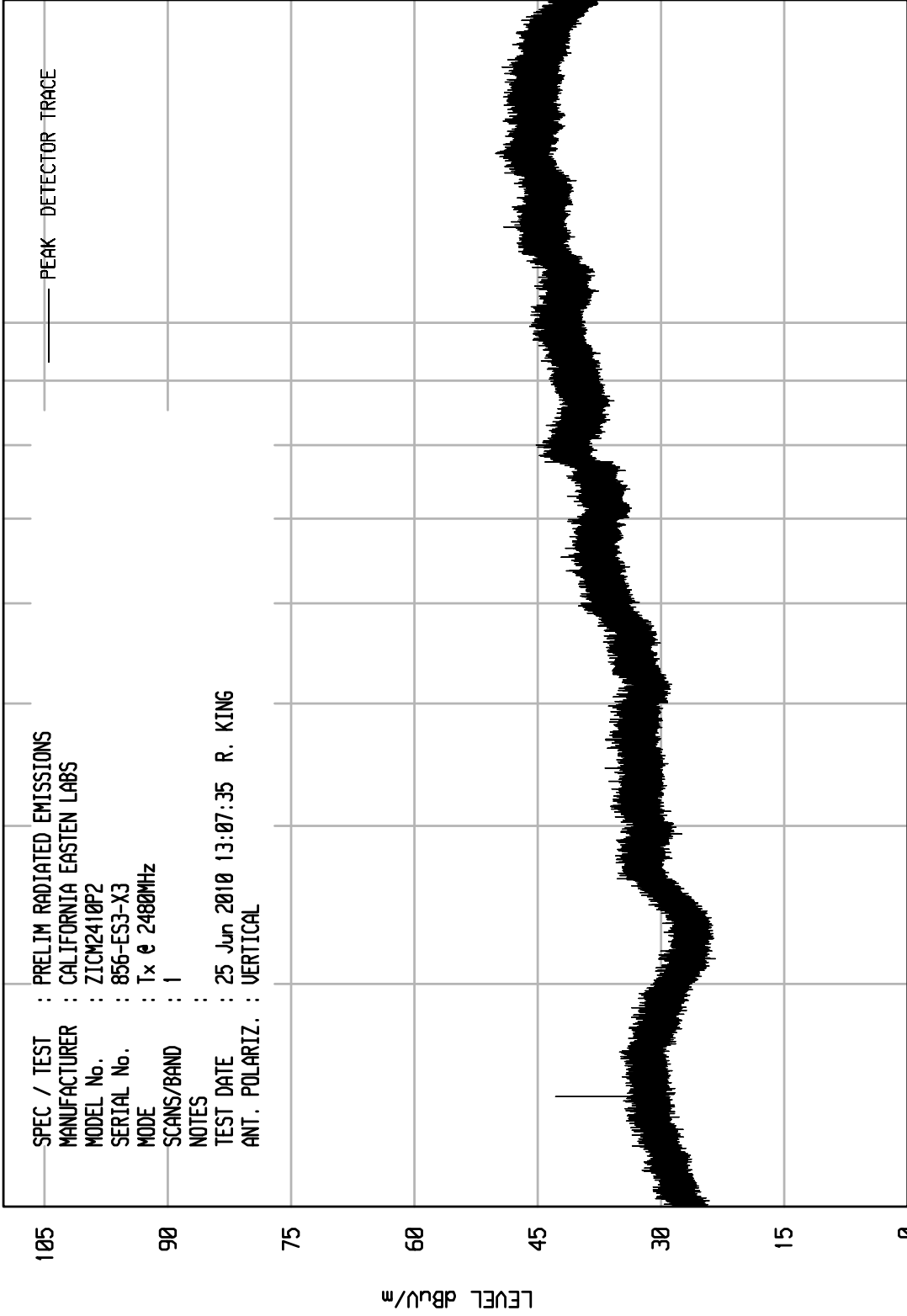
Downers Grove, Ill. 60515

UNIV RCU EMI RUN 6

UKA1 01/25/10

SPEC / TEST : PRELIM RADIATED EMISSIONS
MANUFACTURER : CALIFORNIA EASTEN LABS
MODEL No. : ZICM2410P2
SERIAL No. : 856-ES3-X3
MODE : Tx @ 2480MHz
SCANS/BAND : 1
NOTES :
TEST DATE : 25 Jun 2010 13:07:35 R. KING
ANT. POLARIZ. : VERTICAL

— PEAK DETECTOR TRACE



START = 2000

10000

FREQUENCY MHz

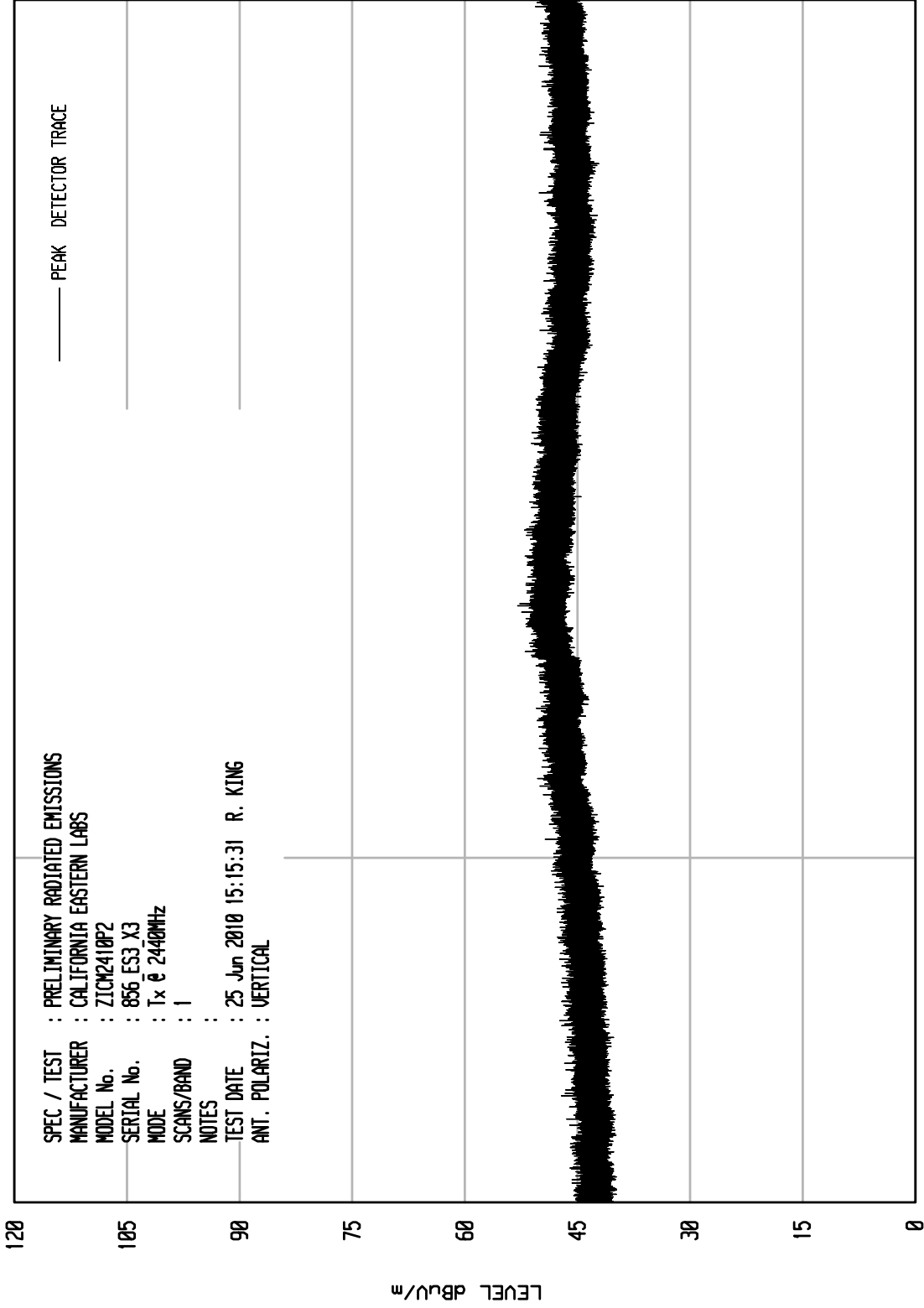
STOP = 18000

ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

UNIU RCU EMI RUN 1

UKA1 01/25/10



START = 18000

FREQUENCY MHz

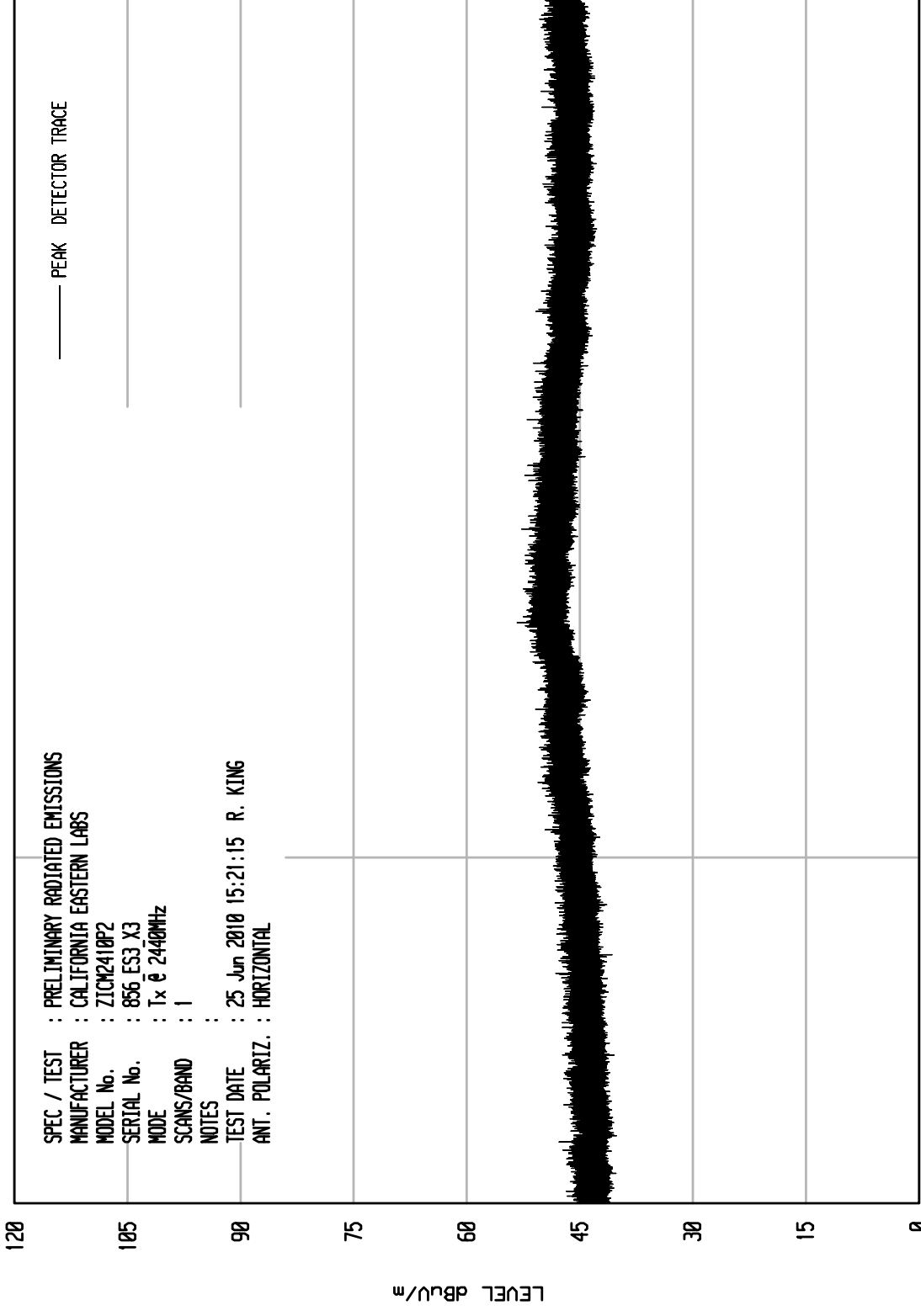
STOP = 26000

ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

UNIU RCU EMI RUN 2

UKA1 01/25/10



SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CALIFORNIA EASTERN LABS
MODEL No. : ZICM2410P2
SERIAL No. : 856_ES3_X3
MODE : Tx @ 2440MHz
SCANS/BAND : 1
NOTES :
TEST DATE : 25 Jun 2010 15:21:15 R. KING
ANT. POLARIZ. : HORIZONTAL

START = 18000

FREQUENCY MHz

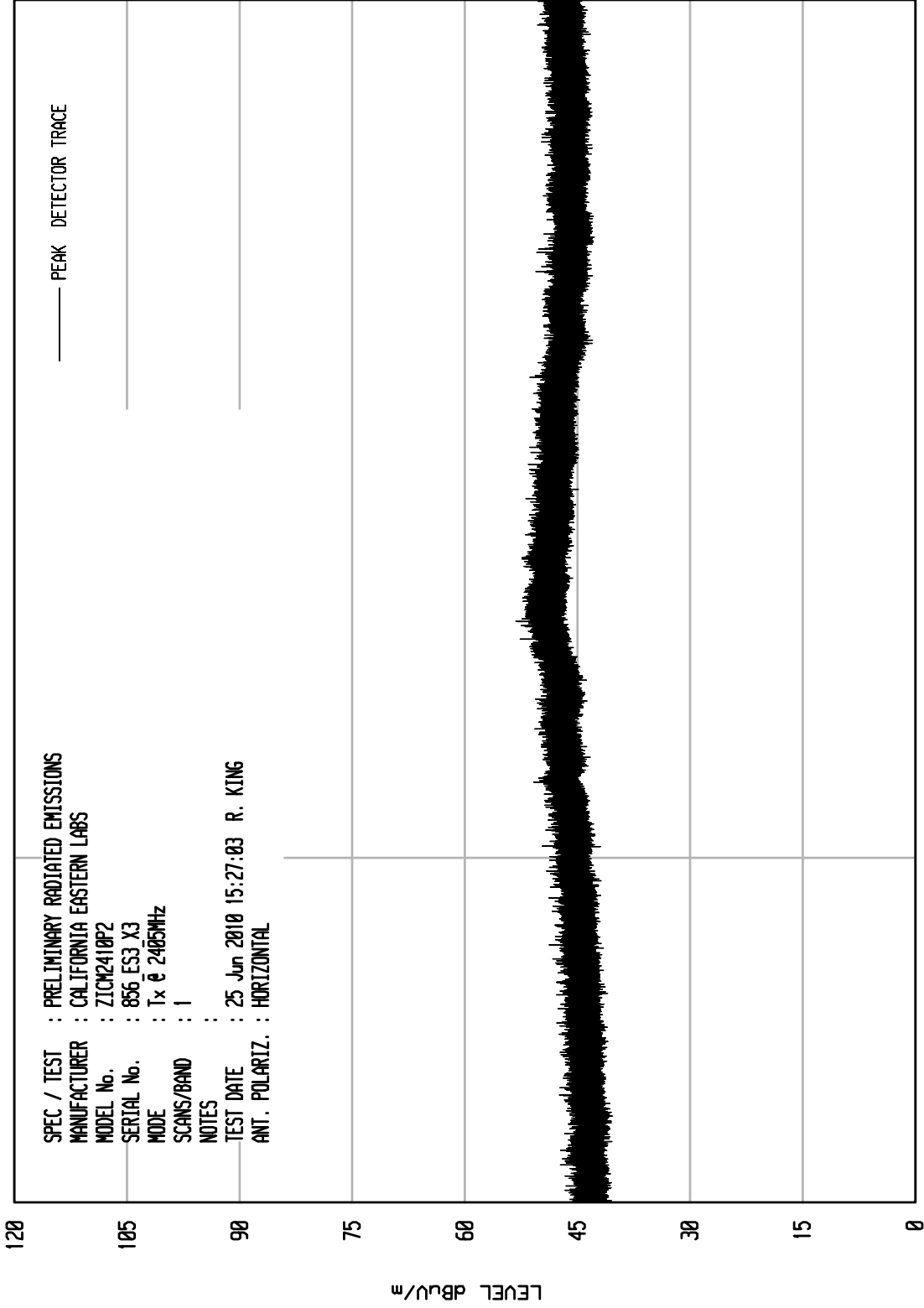
STOP = 26000

ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

UNIU RCU EMI RUN 3

UKA1 01/25/10



SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CALIFORNIA EASTERN LABS
MODEL No. : ZICM2410P2
SERIAL No. : 856 ES3 X3
MODE : Tx @ 2405MHz
SCANS/BAND : 1
NOTES :
TEST DATE : 25 Jun 2010 15:27:03 R. KING
ANT. POLARIZ. : HORIZONTAL

START = 18000

FREQUENCY MHz

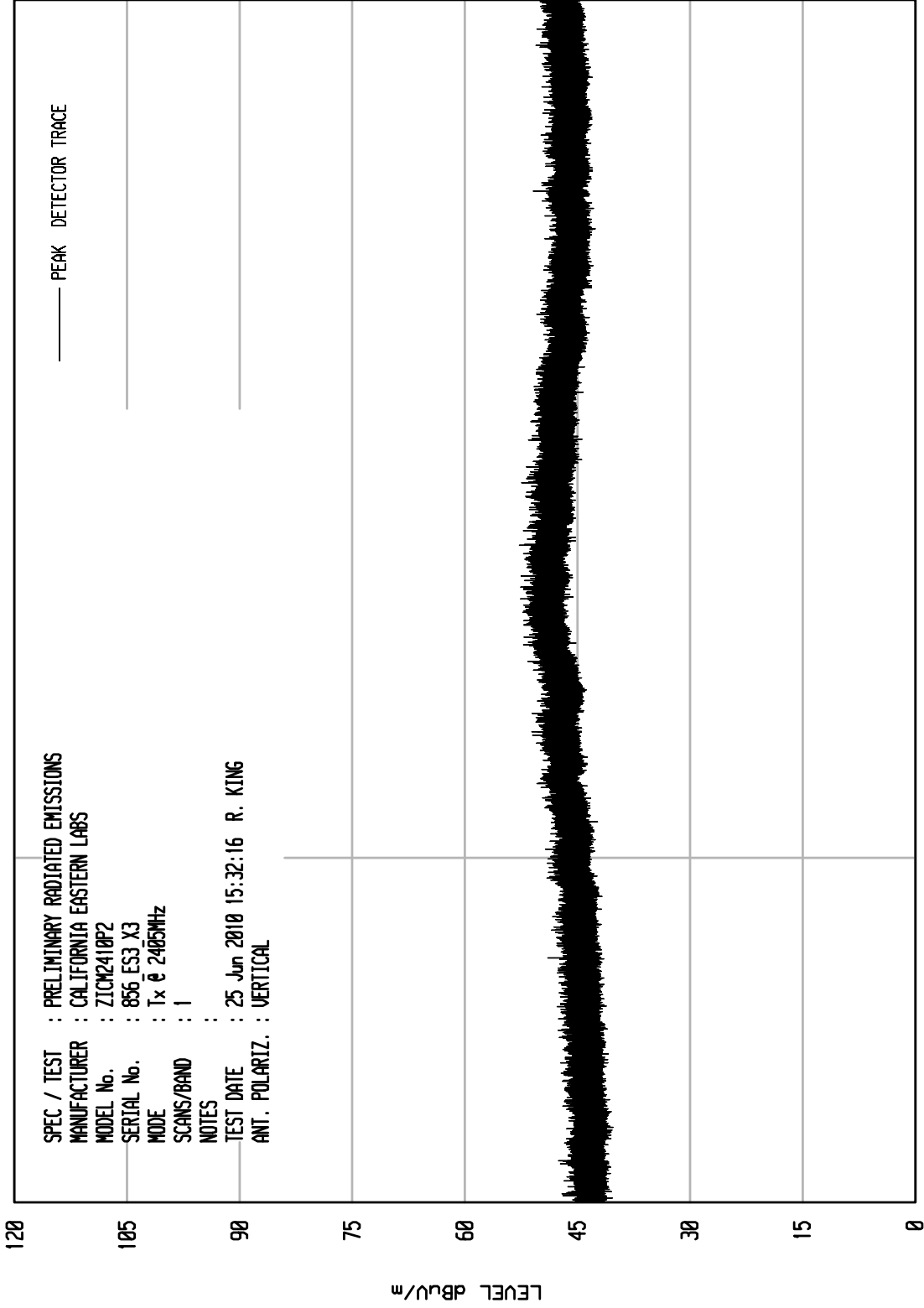
STOP = 26000

ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

UNIU RCU EMI RUN 4

UKA1 01/25/10



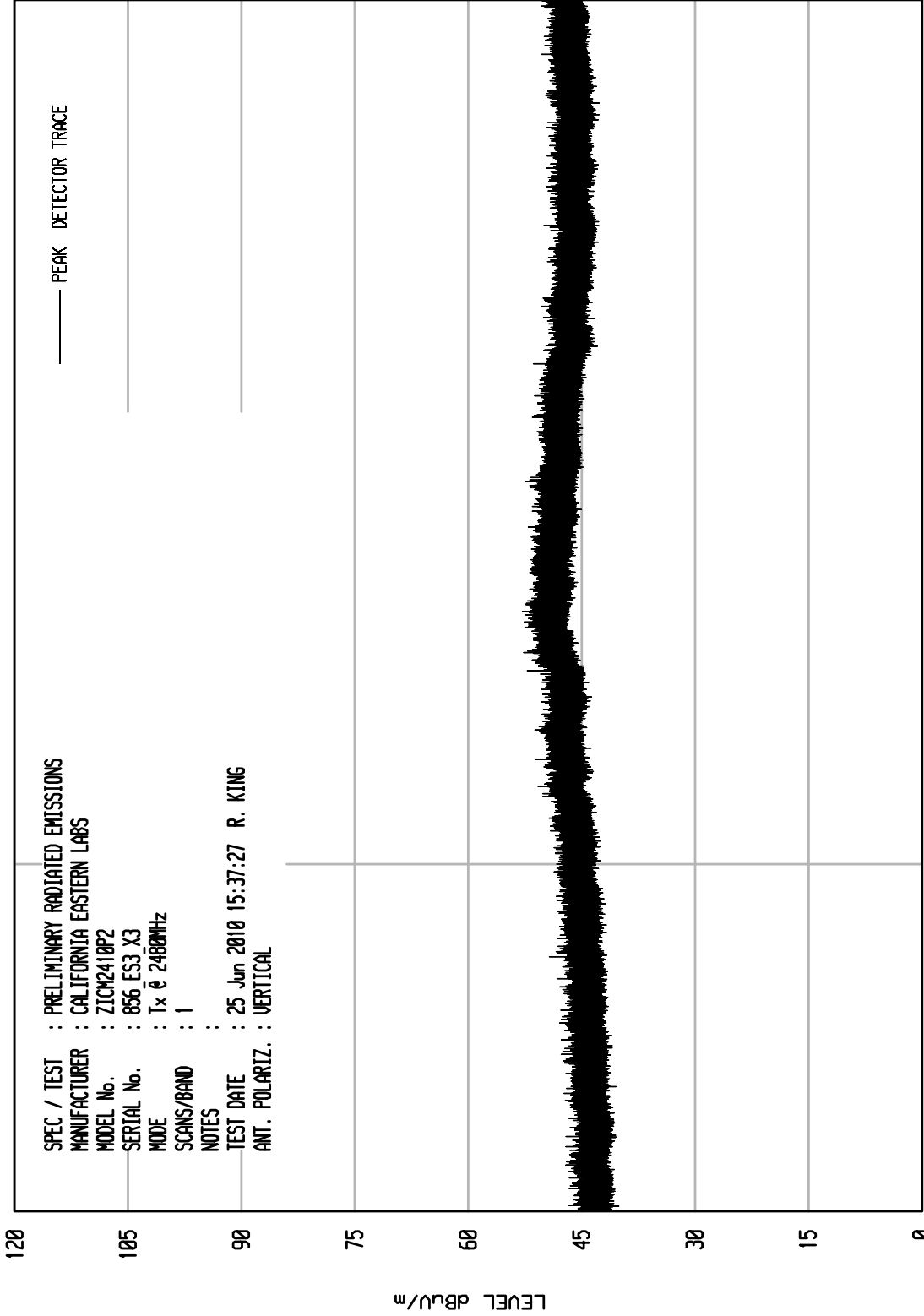
SPEC / TEST : PRELIMINARY RADIATED EMISSIONS
MANUFACTURER : CALIFORNIA EASTERN LABS
MODEL No. : ZICM2410P2
SERIAL No. : 856 ES3 X3
MODE : Tx @ 2405MHz
SCANS/BAND : 1
NOTES :
TEST DATE : 25 Jun 2010 15:32:16 R. KING
ANT. POLARIZ. : VERTICAL

ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

UNIU RCU EMI RUN 5

UKA1 01/25/10



START = 18000

FREQUENCY MHz

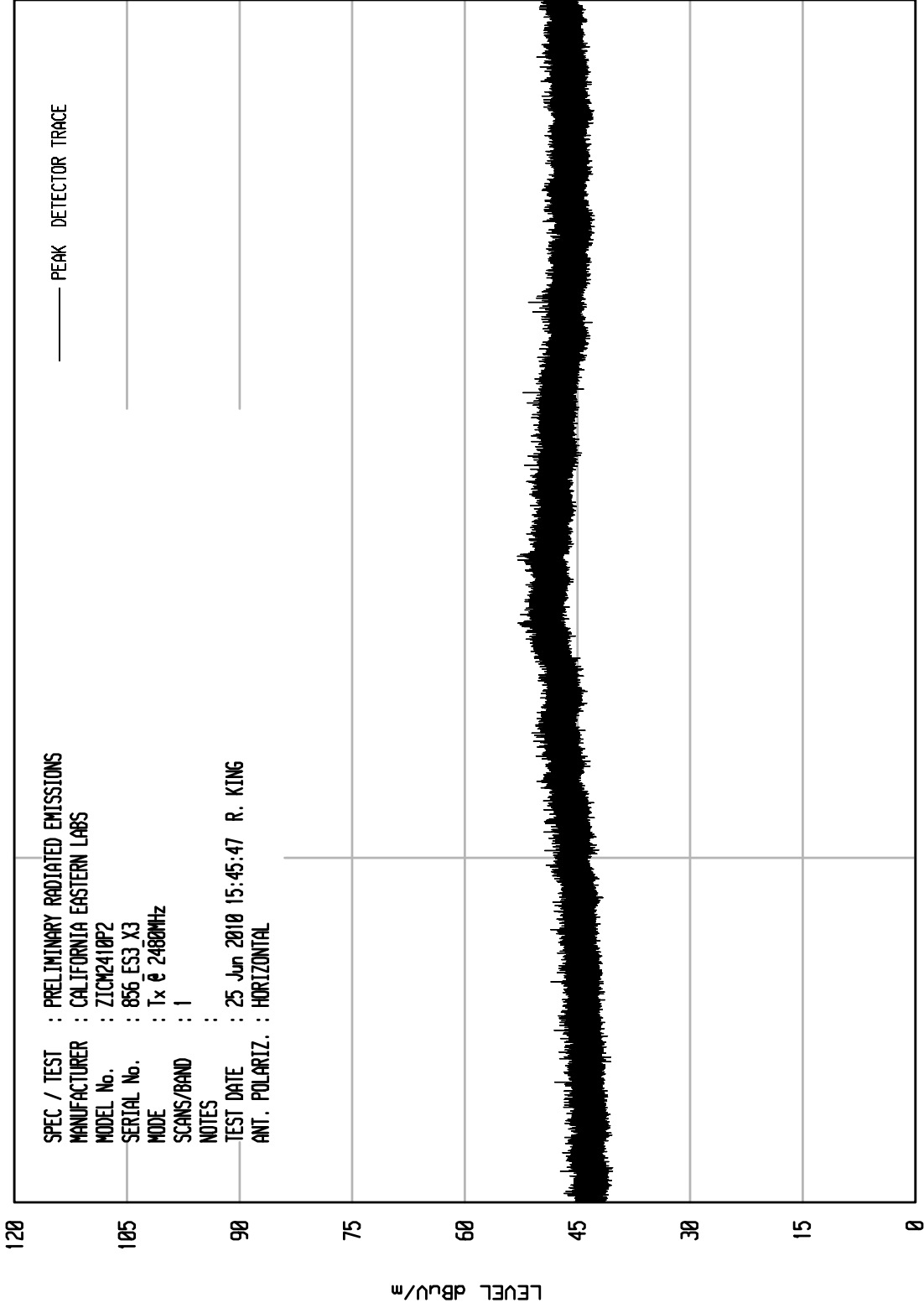
STOP = 26000

ELITE ELECTRONIC ENGINEERING Inc.

Downers Grove, Ill. 60515

UNIU RCU EMI RUN 6

UKA1 01/25/10



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 : June 24 and 25, 2010
 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	86.8	3.8	30.3	0.0	120.9	1109174.8		
2405.0	V	75.4	3.8	30.3	0.0	109.5	1109174.8		
4810.0	H	48.4	5.7	34.5	-37.3	51.3	366	5000	-22.7
4810.0	V	49.5	5.7	34.5	-37.3	52.4	415	5000	-21.6
7215.0	H	45.6	7.6	38.0	-37.4	53.8	491	110917	-47.1
7215.0	V	44.2	7.6	38.0	-37.4	52.5	422	110917	-48.4
9620.0	H	47.1	8.6	39.8	-37.6	57.9	781	110917	-43.0
9620.0	V	44.0	8.6	39.8	-37.6	54.8	549	110917	-46.1
12025.0	H	46.7	9.8	41.4	-37.3	60.6	1067	5000	-13.4
12025.0	V	46.6	9.8	41.4	-37.3	60.5	1055	5000	-13.5
14430.0	H	31.3	10.9	43.7	-37.2	48.7	271	110917	-52.2
14430.0	V	30.4	10.9	43.7	-37.2	47.8	245	110917	-53.1
16835.0	H	27.5	11.6	44.6	-37.2	46.6	214	110917	-54.3
16835.0	V	28.3	11.6	44.6	-37.2	47.4	233	110917	-53.5
19240.0	H	34.6	2.2	40.4	-37.3	39.9	98	5000	-34.1
19240.0	V	34.6	2.2	40.4	-37.3	39.9	98	5000	-34.1
21645.0	H	34.7	2.2	40.6	-26.2	51.2	365	110917	-49.7
21645.0	V	34.7	2.2	40.6	-26.2	51.2	365	110917	-49.7
24050.0	H	34.8	2.2	40.6	-27.4	50.3	325	110917	-50.6
24050.0	V	34.8	2.2	40.6	-27.4	50.3	325	110917	-50.6

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 : June 24 and 25, 2010
 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)
4810.0	H	38.7	5.7	34.5	-37.3	41.5	119.2	500	-12.5
4810.0	V	40.8	5.7	34.5	-37.3	43.7	152.9	500	-10.3
12025.0	H	34.4	9.8	41.4	-37.3	48.2	257.8	500	-5.8
12025.0	V	34.4	9.8	41.4	-37.3	48.2	257.5	500	-5.8
19240.0	H	34.8	2.2	40.4	-37.3	40.1	100.7	500	-13.9
19240.0	V	34.8	2.2	40.4	-37.3	40.1	100.7	500	-13.9

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 : June 24 and 25, 2010
 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	85.4	3.8	31.3	0.0	120.6	1071519.3		
2440.0	V	74.7	3.8	30.4	0.0	108.9	1071519.3		
4880.0	H	52.1	5.7	34.5	-37.3	55.0	560.5	5000	-19.0
4880.0	V	49.9	5.7	34.5	-37.3	52.8	437.6	5000	-21.2
7320.0	H	53.1	7.7	38.1	-37.4	61.4	1169.4	5000	-12.6
7320.0	V	53.6	7.7	38.1	-37.4	61.9	1244.4	5000	-12.1
9760.0	H	47.0	8.6	39.9	-37.6	57.9	781.4	107152	-42.7
9760.0	V	49.1	8.6	39.9	-37.6	59.9	991.6	107152	-40.7
12200.0	H	46.8	9.9	41.4	-37.1	60.9	1110.5	5000	-13.1
12200.0	V	46.9	9.9	41.4	-37.1	61.0	1123.4	5000	-13.0
14640.0	H	31.3	1.5	44.1	-37.1	39.7	96.9	107152	-60.9
14640.0	V	30.4	1.5	44.1	-37.1	38.8	87.4	107152	-61.8
17080.0	H	27.5	1.9	44.5	-36.8	37.1	71.3	107152	-63.5
17080.0	V	28.3	1.9	44.5	-36.8	37.9	78.2	107152	-62.7
19520.0	H	35.5	2.2	40.4	-27.2	50.9	351.1	5000	-23.1
19520.0	V	35.5	2.2	40.4	-27.2	50.9	351.1	5000	-23.1
21960.0	H	33.1	2.2	40.6	-26.9	49.0	280.7	107152	-51.6
21960.0	V	34.2	2.2	40.6	-26.9	50.1	318.6	107152	-50.5
24400.0	H	35.2	2.2	40.6	-27.5	50.6	338.4	107152	-50.0
24400.0	V	35.2	2.2	40.6	-27.5	50.6	338.4	107152	-50.0

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 : June 24 and 25, 2010
 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)
4880.0	H	44.6	5.7	34.5	-37.3	47.5	237.7	500	-6.5
4880.0	V	40.4	5.7	34.5	-37.3	43.3	146.1	500	-10.7
7320.0	H	44.3	7.7	38.1	-37.4	52.6	426.5	500	-1.4
7320.0	V	44.6	7.7	38.1	-37.4	52.9	439.5	500	-1.1
12200.0	H	33.8	9.9	41.4	-39.4	45.5	189.4	500	-8.4
12200.0	V	33.3	9.9	41.4	-39.4	45.0	178.2	500	-9.0
19520.0	H	35.5	2.2	40.4	-27.2	50.9	351.1	500	-3.1
19520.0	V	35.5	2.2	40.4	-27.2	50.9	351.1	500	-3.1

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 : June 24 and 25, 2010
 Mode : Transmit @ 2480MHz
 Test Distance : 3 meters
 Notes :

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	66.3	3.8	29.5	0.0	99.6	95499.3		
2480.0	V	62.7	3.8	29.5	0.0	96.0	95499.3		
4960.0	H	43.4	5.8	34.5	-37.3	46.3	207.4	5000.0	-27.6
4960.0	V	42.9	5.8	34.5	-37.3	45.8	195.8	5000.0	-28.1
7440.0	H	43.7	7.7	38.1	-37.5	52.0	400.2	5000.0	-21.9
7440.0	V	44.1	7.7	38.1	-37.5	52.5	419.5	5000.0	-21.5
9920.0	H	31.0	8.5	40.0	-37.7	41.9	124.8	9549.9	-37.7
9920.0	V	31.3	8.5	40.0	-37.7	42.2	128.2	9549.9	-37.4
12400.0	H	46.7	9.9	41.3	-36.9	61.1	1133.3	5000.0	-12.9
12400.0	V	46.9	9.9	41.3	-36.9	61.3	1159.7	5000.0	-12.7
14880.0	H	28.0	11.2	44.5	-37.0	46.7	215.8	9549.9	-32.9
14880.0	V	28.6	11.2	44.5	-37.0	47.2	230.2	9549.9	-32.4
17360.0	H	28.4	11.8	44.4	-36.6	48.0	251.6	9549.9	-31.6
17360.0	V	29.0	11.8	44.4	-36.6	48.6	270.5	9549.9	-31.0
19840.0	H	34.1	2.2	40.4	-36.8	40.0	99.5	5000.0	-34.0
19840.0	V	34.1	2.2	40.4	-36.8	40.0	99.5	5000.0	-34.0
22320.0	H	35.2	2.2	40.6	-27.1	50.9	351.9	5000.0	-23.1
22320.0	V	35.2	2.2	40.6	-27.1	50.9	351.9	5000.0	-23.1
24800.0	H	34.4	2.2	40.7	-27.2	50.1	318.1	9549.9	-29.5
24800.0	V	34.4	2.2	40.7	-27.2	50.1	318.1	9549.9	-29.5

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 : June 24 and 25, 2010
 Mode : Transmit @ 2480MHz
 Test Distance : 3 meters
 Notes : none

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

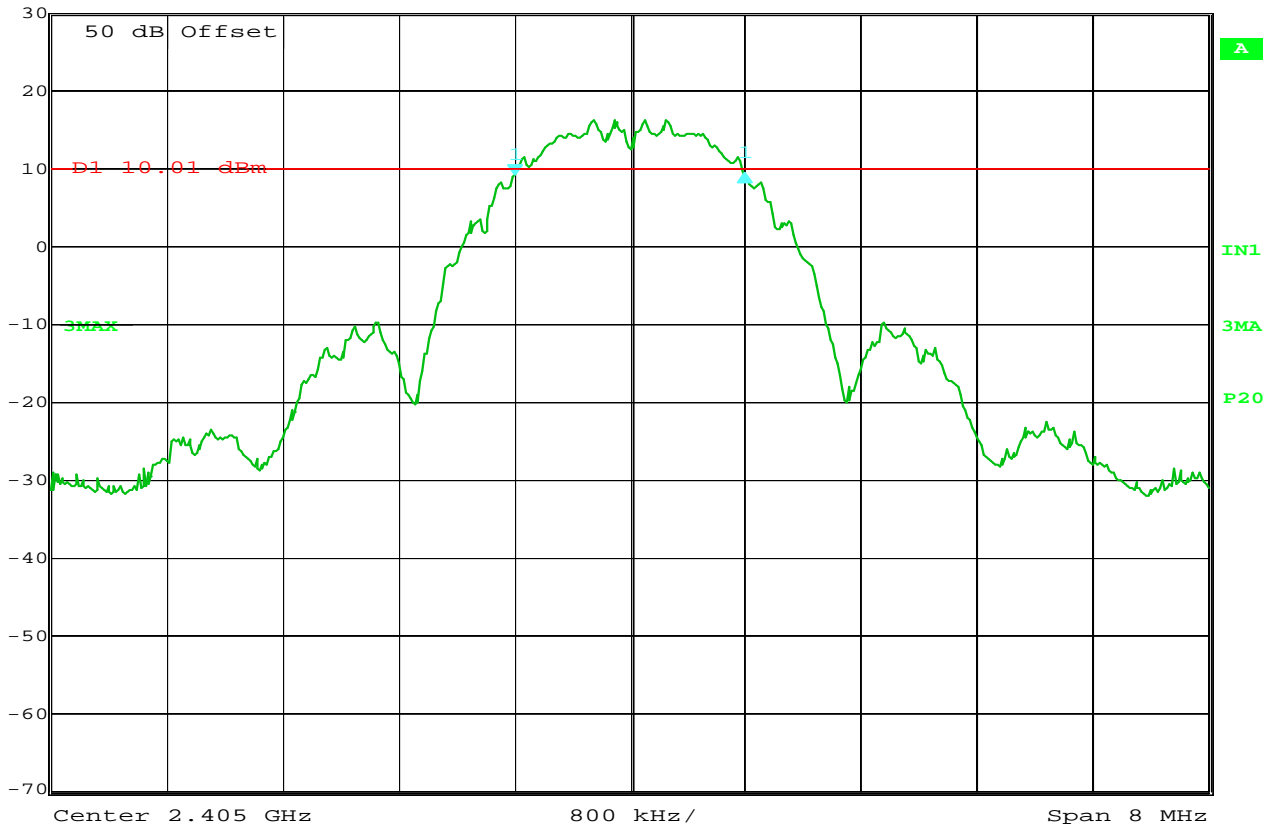
Freq (MHz)	Ant Pol	Meter Reading (dBUV)	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Total dBuV/m at 3M	Total uV/m at 3M	Limit uV/m at 3M	Margin (dB)
4960.0	H	29.5	5.8	34.5	-37.3	32.5	42.1	500.0	-21.5
4960.0	V	29.5	5.8	34.5	-37.3	32.5	42.1	500.0	-21.5
7440.0	H	30.7	7.7	38.1	-37.5	39.0	89.1	500.0	-15.0
7440.0	V	30.7	7.7	38.1	-37.5	39.0	89.1	500.0	-15.0
12400.0	H	33.9	9.9	41.3	-36.9	48.3	259.6	500.0	-5.7
12400.0	V	33.8	9.9	41.3	-36.9	48.2	256.7	500.0	-5.8
19840.0	H	34.1	2.2	40.4	-36.8	40.0	99.5	500.0	-14.0
19840.0	V	34.1	2.2	40.4	-36.8	40.0	99.5	500.0	-14.0
22320.0	H	35.2	2.2	40.6	-27.1	50.9	352.2	500.0	-3.0
22320.0	V	35.2	2.2	40.6	-27.1	50.9	352.2	500.0	-3.0

Checked BY Richard E. King :

Richard E. King



Delta 1 [T3] RBW 100 kHz RF Att 20 dB
 Ref Lvl 0.42 dB VBW 1 MHz
 30 dBm 1.58717435 MHz SWT 5 ms Unit dBm



Date: 24.JUN.2010 12:26:10

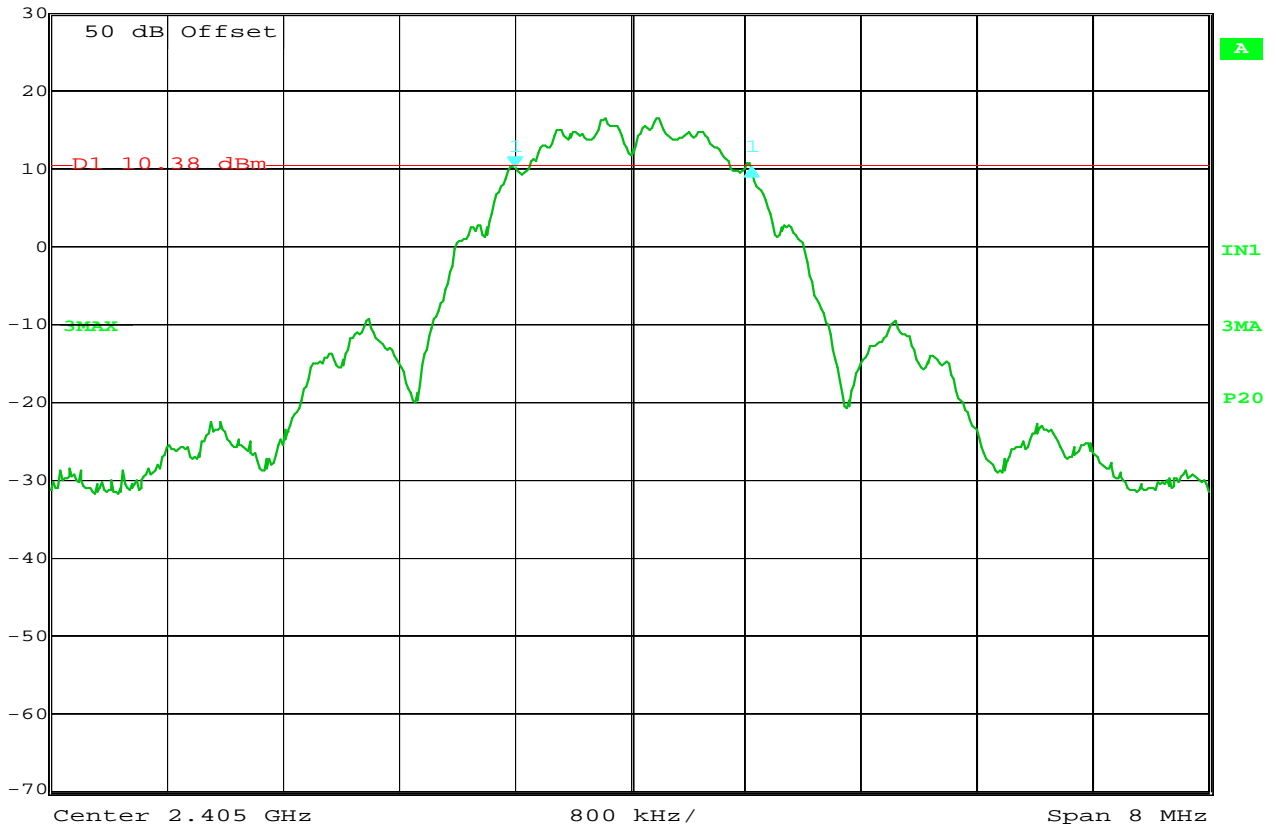
FCC 15.247 6dB Bandwidth

MANUFACTURER : California Eastern Labs
 TEST ITEM : Zigbee Transceiver
 MODEL NUMBER : ZICM2410P2
 SERIAL NUMBER : 853-ES3-X3
 TEST MODE : Transmit @ 2405MHz
 TEST PARAMETERS : 6dB bandwidth at 2405MHz
 DATA RATE : 250kHz
 NOTES :

NOTES



Delta 1 [T3] RBW 100 kHz RF Att 20 dB
 Ref Lvl 0.03 dB VBW 1 MHz
 30 dBm 1.63527054 MHz SWT 5 ms Unit dBm



Date: 24.JUN.2010 12:25:04

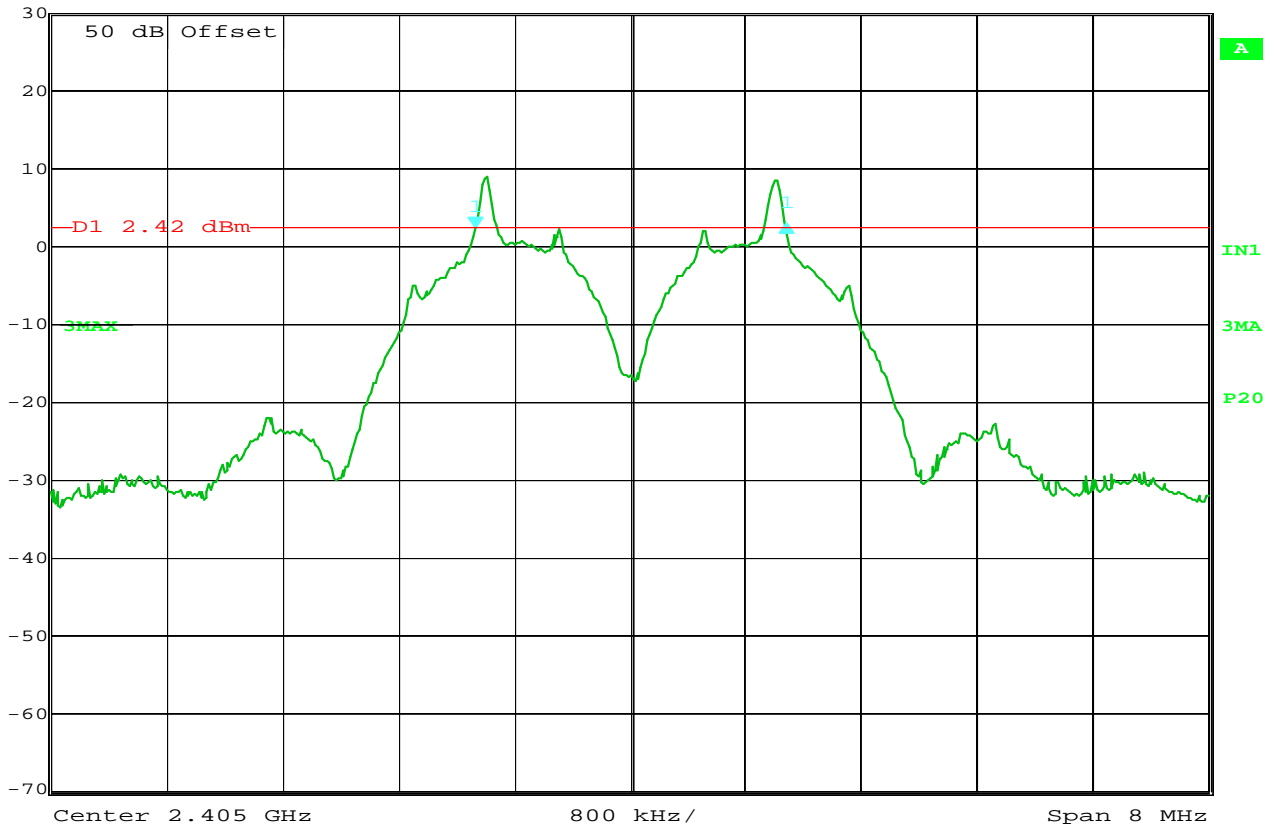
FCC 15.247 6dB Bandwidth

MANUFACTURER : California Eastern Labs
 TEST ITEM : Zigbee Transceiver
 MODEL NUMBER : ZICM2410P2
 SERIAL NUMBER : 853-ES3-X3
 TEST MODE : Transmit @ 2405MHz
 TEST PARAMETERS : 6dB bandwidth at 2405MHz
 DATA RATE : 500kHz
 NOTES :

NOTES



Delta 1 [T3] RBW 100 kHz RF Att 20 dB
 Ref Lvl 0.58 dB VBW 1 MHz
 30 dBm 2.14829659 MHz SWT 5 ms Unit dBm



Date: 24.JUN.2010 12:22:46

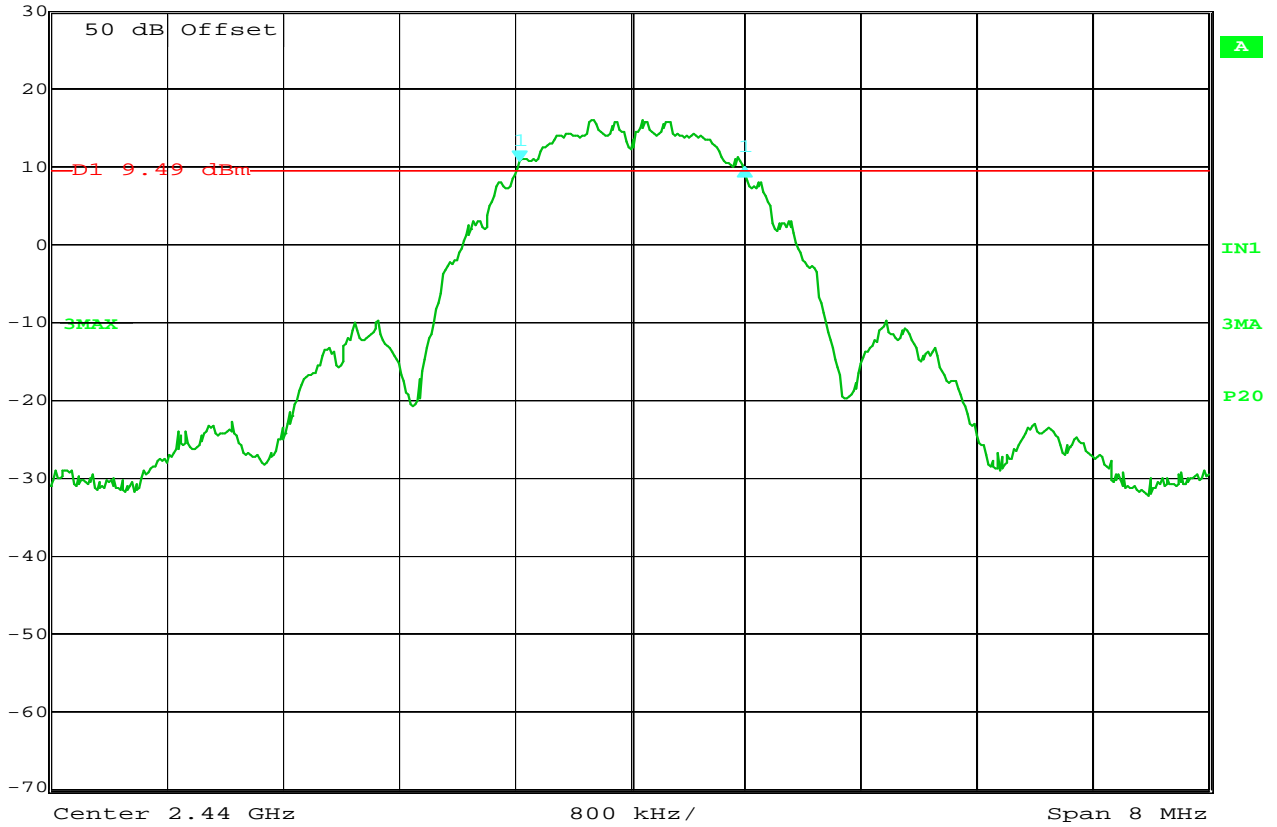
FCC 15.247 6dB Bandwidth

MANUFACTURER : California Eastern Labs
 TEST ITEM : Zigbee Transceiver
 MODEL NUMBER : ZICM2410P2
 SERIAL NUMBER : 853-ES3-X3
 TEST MODE : Transmit @ 2405MHz
 TEST PARAMETERS : 6dB bandwidth at 2405MHz
 DATA RATE : 1MBPS
 NOTES :

NOTES



Delta 1 [T3] RBW 100 kHz RF Att 20 dB
 Ref Lvl -0.91 dB VBW 1 MHz
 30 dBm 1.55511022 MHz SWT 5 ms Unit dBm



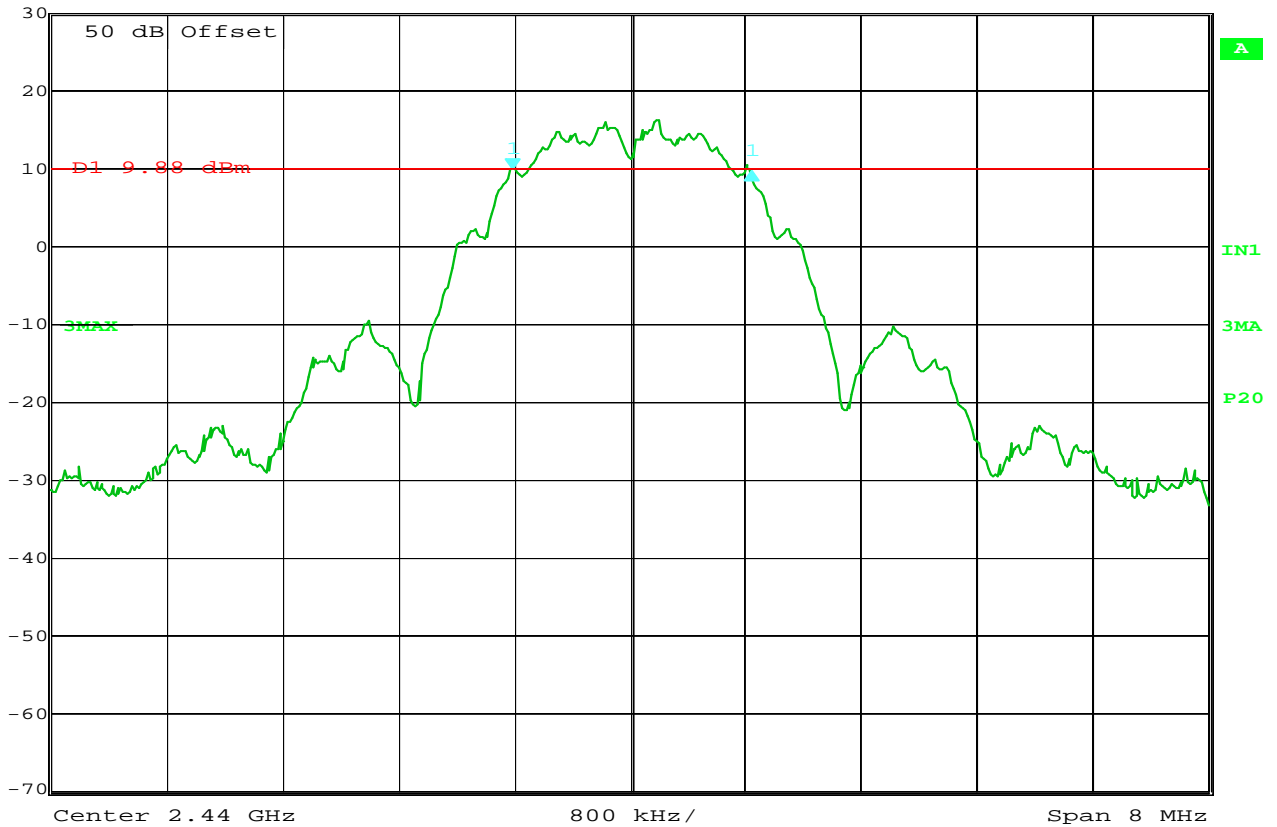
Date: 24.JUN.2010 12:28:26

FCC 15.247 6dB Bandwidth

MANUFACTURER : California Eastern Labs
 TEST ITEM : Zigbee Transceiver
 MODEL NUMBER : ZICM2410P2
 SERIAL NUMBER : 853-ES3-X3
 TEST MODE : Transmit @ 2440MHz
 TEST PARAMETERS : 6dB bandwidth at 2440MHz
 DATA RATE : 250kHz
 NOTES :



Delta 1 [T3] RBW 100 kHz RF Att 20 dB
 Ref Lvl -0.13 dB VBW 1 MHz
 30 dBm 1.65130261 MHz SWT 5 ms Unit dBm



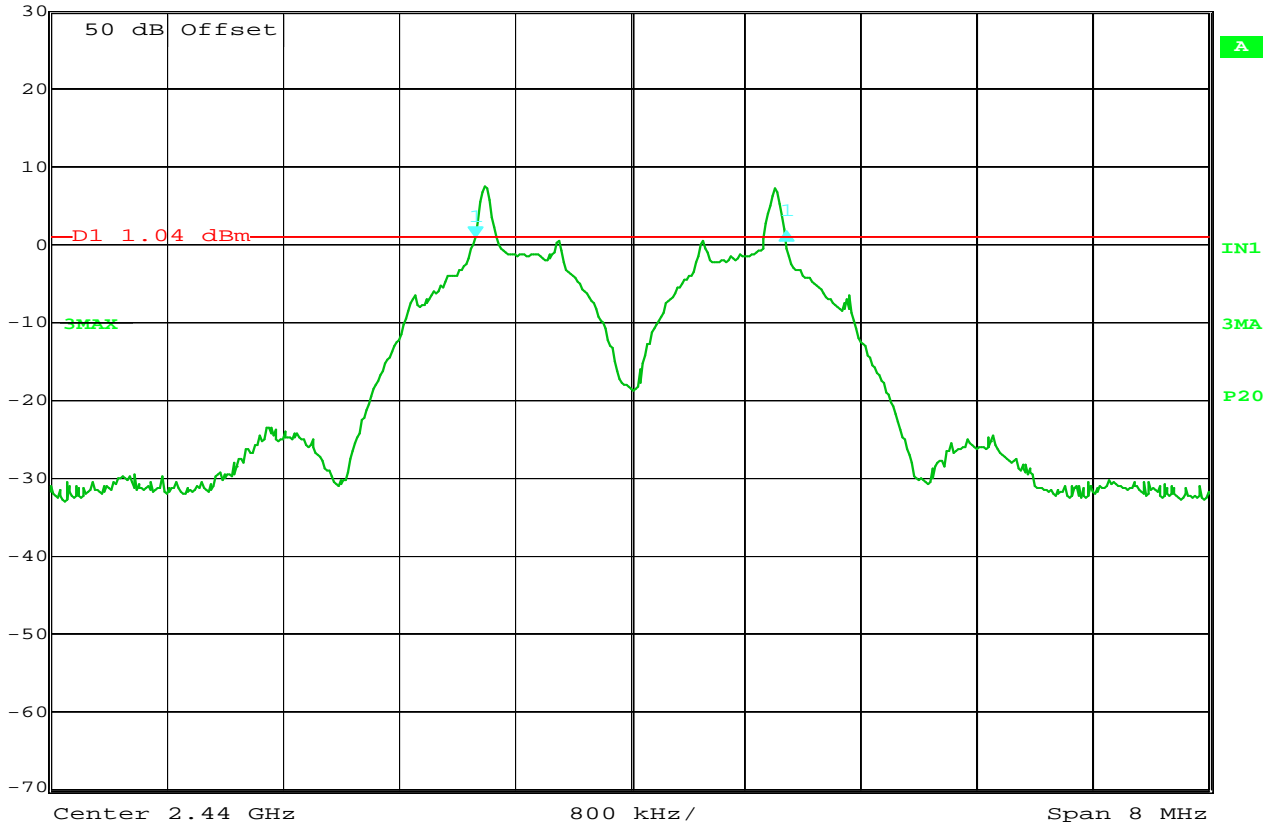
Date: 24.JUN.2010 12:29:56

FCC 15.247 6dB Bandwidth

MANUFACTURER : California Eastern Labs
 TEST ITEM : Zigbee Transceiver
 MODEL NUMBER : ZICM2410P2
 SERIAL NUMBER : 853-ES3-X3
 TEST MODE : Transmit @ 2440MHz
 TEST PARAMETERS : 6dB bandwidth at 2440MHz
 DATA RATE : 500kHz
 NOTES :



Delta 1 [T3] RBW 100 kHz RF Att 20 dB
 Ref Lvl 0.59 dB VBW 1 MHz
 30 dBm 2.14829659 MHz SWT 5 ms Unit dBm



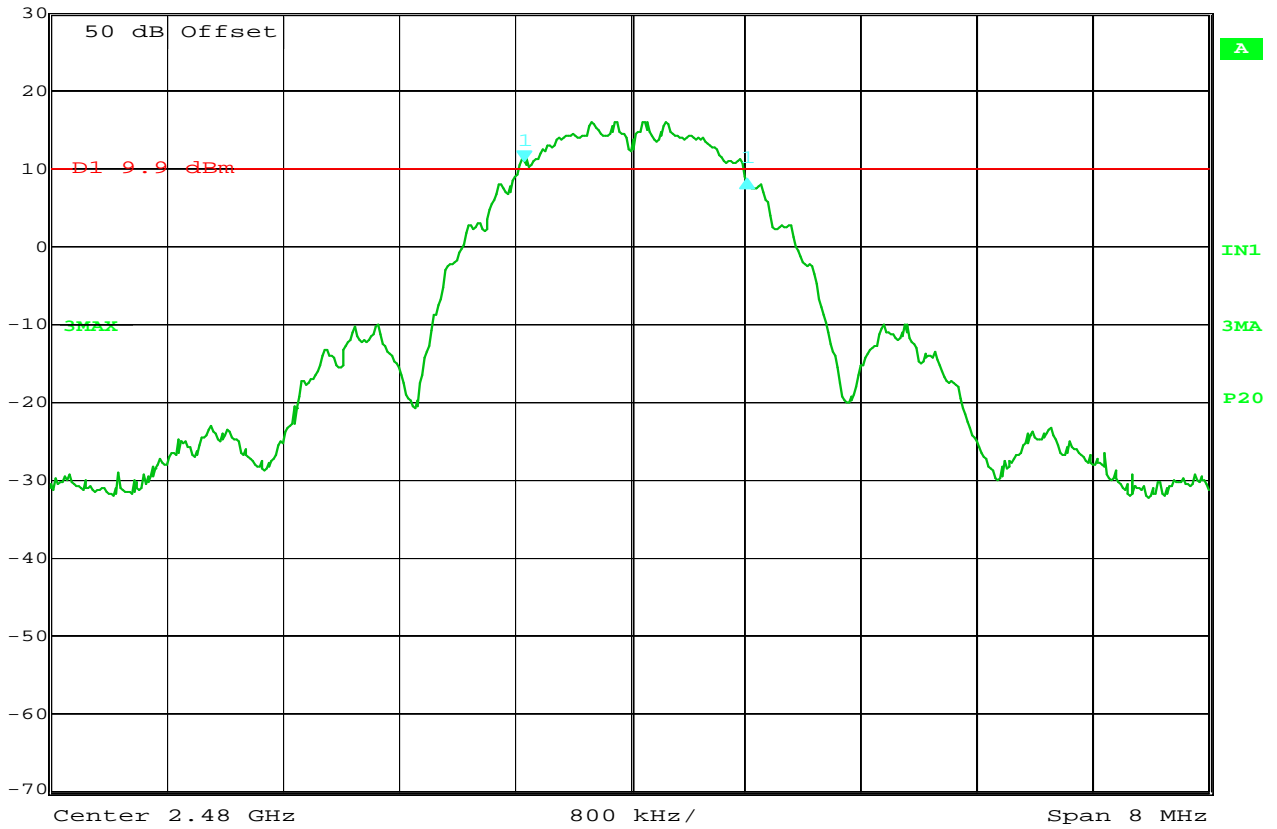
Date: 24.JUN.2010 12:31:37

FCC 15.247 6dB Bandwidth

MANUFACTURER : California Eastern Labs
 TEST ITEM : Zigbee Transceiver
 MODEL NUMBER : ZICM2410P2
 SERIAL NUMBER : 853-ES3-X3
 TEST MODE : Transmit @ 2440MHz
 TEST PARAMETERS : 6dB bandwidth at 2440MHz
 DATA RATE : 1MBPS
 NOTES :



Delta 1 [T3] RBW 100 kHz RF Att 20 dB
 Ref Lvl -2.14 dB VBW 1 MHz
 30 dBm 1.53907816 MHz SWT 5 ms Unit dBm



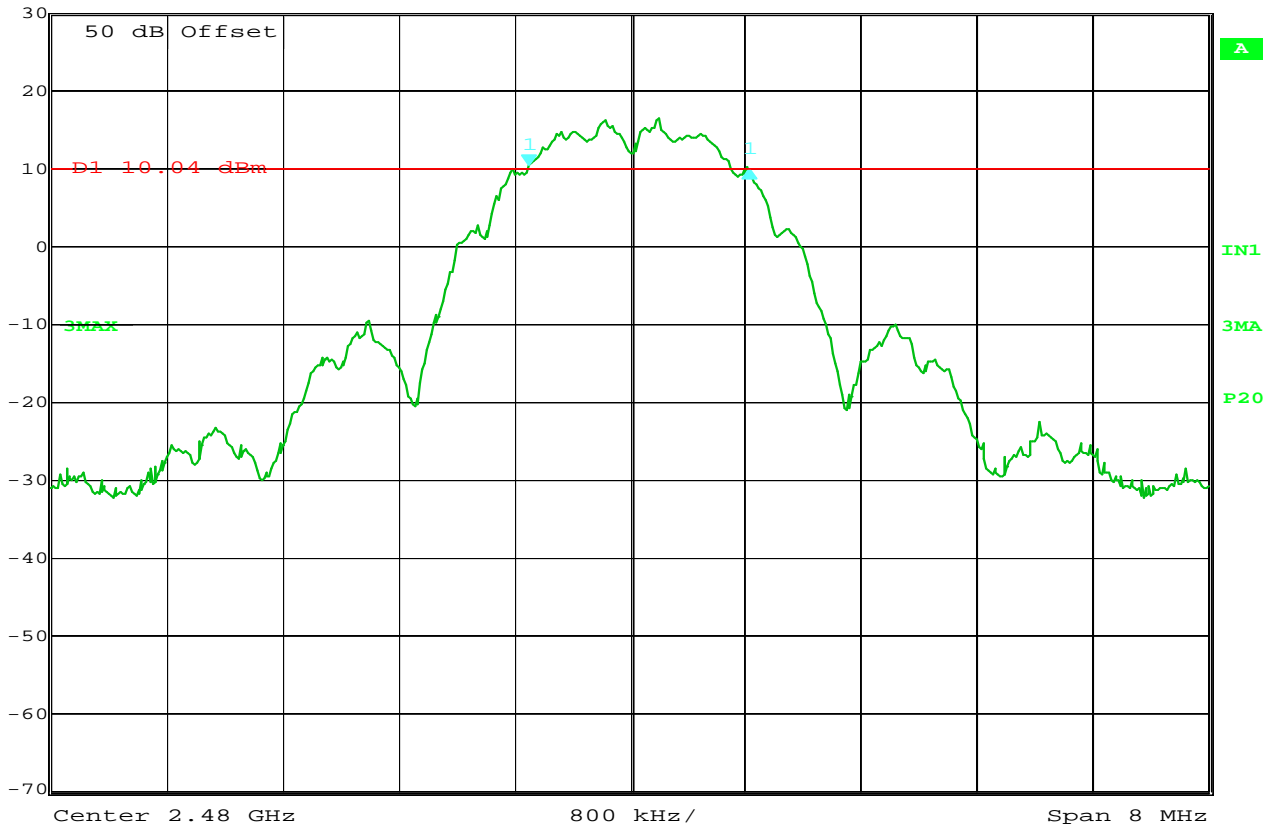
Date: 24.JUN.2010 12:37:20

FCC 15.247 6dB Bandwidth

MANUFACTURER : California Eastern Labs
 TEST ITEM : Zigbee Transceiver
 MODEL NUMBER : ZICM2410P2
 SERIAL NUMBER : 853-ES3-X3
 TEST MODE : Transmit @ 2480MHz
 TEST PARAMETERS : 6dB bandwidth at 2480MHz
 DATA RATE : 250kHz
 NOTES :



Delta 1 [T3] RBW 100 kHz RF Att 20 dB
 Ref Lvl -0.27 dB VBW 1 MHz
 30 dBm 1.52304609 MHz SWT 5 ms Unit dBm



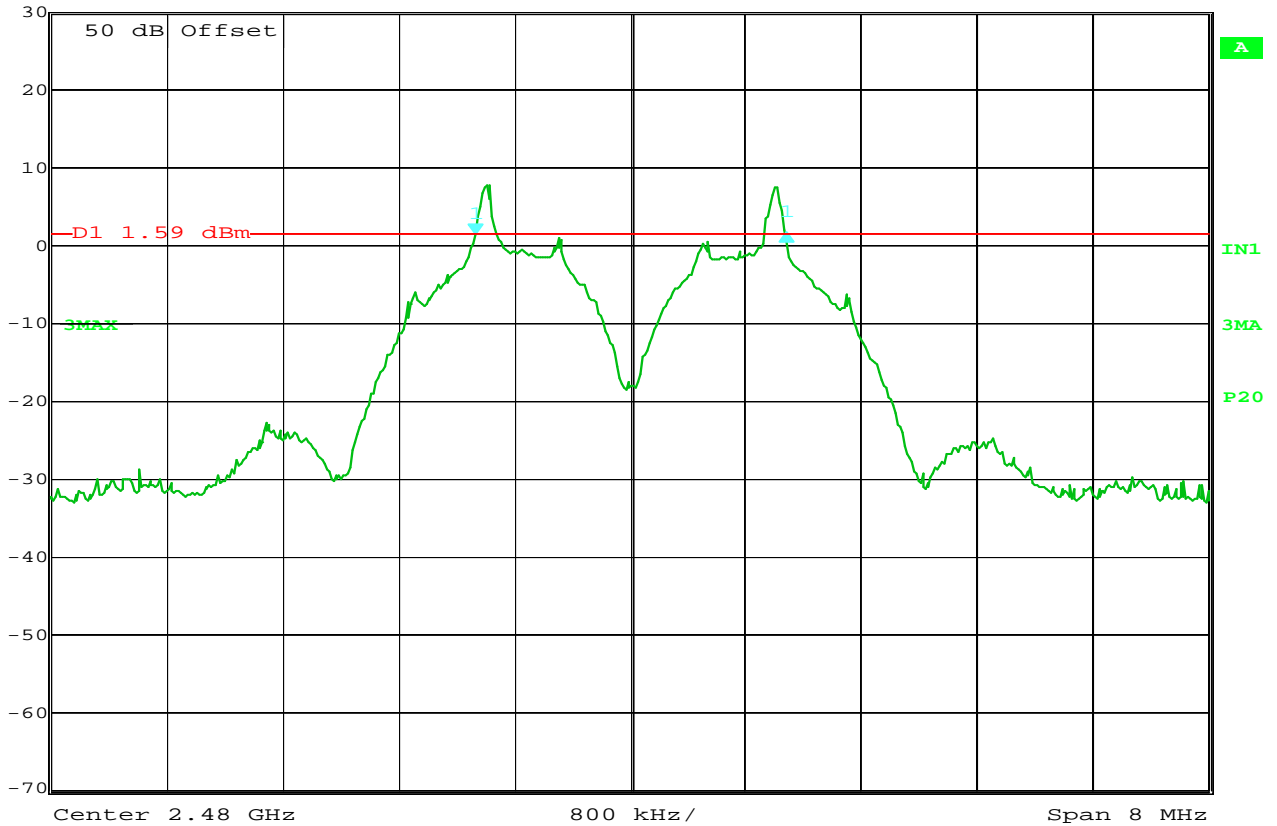
Date: 24.JUN.2010 12:35:10

FCC 15.247 6dB Bandwidth

MANUFACTURER : California Eastern Labs
 TEST ITEM : Zigbee Transceiver
 MODEL NUMBER : ZICM2410P2
 SERIAL NUMBER : 853-ES3-X3
 TEST MODE : Transmit @ 2480MHz
 TEST PARAMETERS : 6dB bandwidth at 2480MHz
 DATA RATE : 500kHz
 NOTES :



Delta 1 [T3] RBW 100 kHz RF Att 20 dB
 Ref Lvl 0.08 dB VBW 1 MHz
 30 dBm 2.14829659 MHz SWT 5 ms Unit dBm



Date: 24.JUN.2010 12:33:32

FCC 15.247 6dB Bandwidth

MANUFACTURER : California Eastern Labs
 TEST ITEM : Zigbee Transceiver
 MODEL NUMBER : ZICM2410P2
 SERIAL NUMBER : 853-ES3-X3
 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 : June 24, 2010
 Notes :

Freq (MHz)	Total (dBm)	Total (Watts)	Limit (dBm)	Limit (Watts)
2405.0	20.29	0.107	30	1
2440.0	20.20	0.105	30	1
2480.0	9.89	0.010	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 : June 24, 2010
 Notes : EIRP = Matched Signal - Cable Loss + Antenna Gain

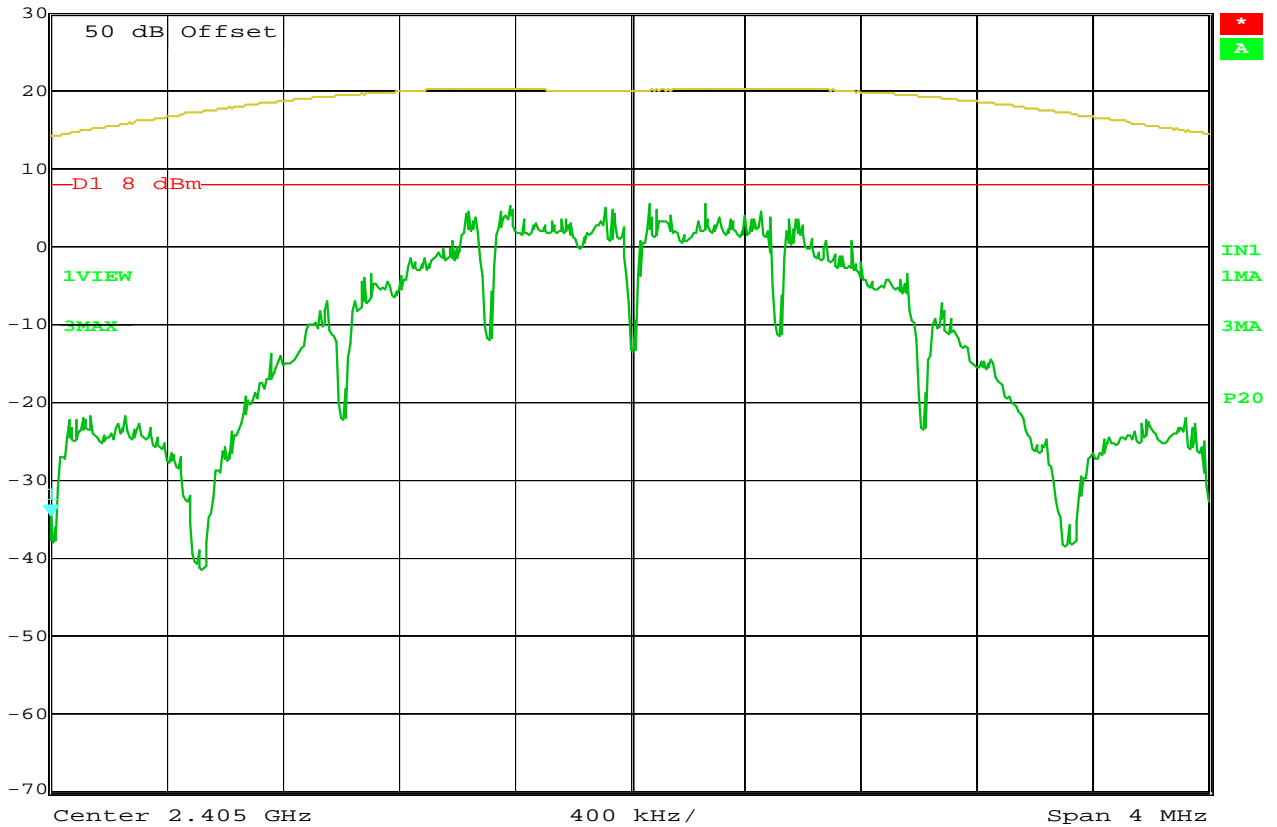
Freq (MHz)	Ant Pol	Meter Reading (dBuV)	Matched SIG. GEN. (dB)	Ant Gain (dB)	CBL (dB)	Total (dBm)	Limit
2405.0	H	90.8	18.6	5.3	3.0	20.9	36
2405.0	V	79.4	6.4	5.3	3.0	8.7	36
2440.0	H	89.4	18.1	5.4	3.1	20.4	36
2440.0	V	78.7	6.5	5.4	3.1	8.8	36
2480.0	H	70.3	9.5	5.4	3.1	11.8	36
2480.0	V	66.7	8.4	5.4	3.1	10.7	36

Checked BY Richard E. King :

Richard E. King



Marker 1 [T3] RBW 3 kHz RF Att 20 dB
 Ref Lvl -34.61 dBm VBW 30 kHz
 30 dBm 2.4030000 GHz SWT 1350 s Unit dBm



Date: 24.JUN.2010 11:43:03

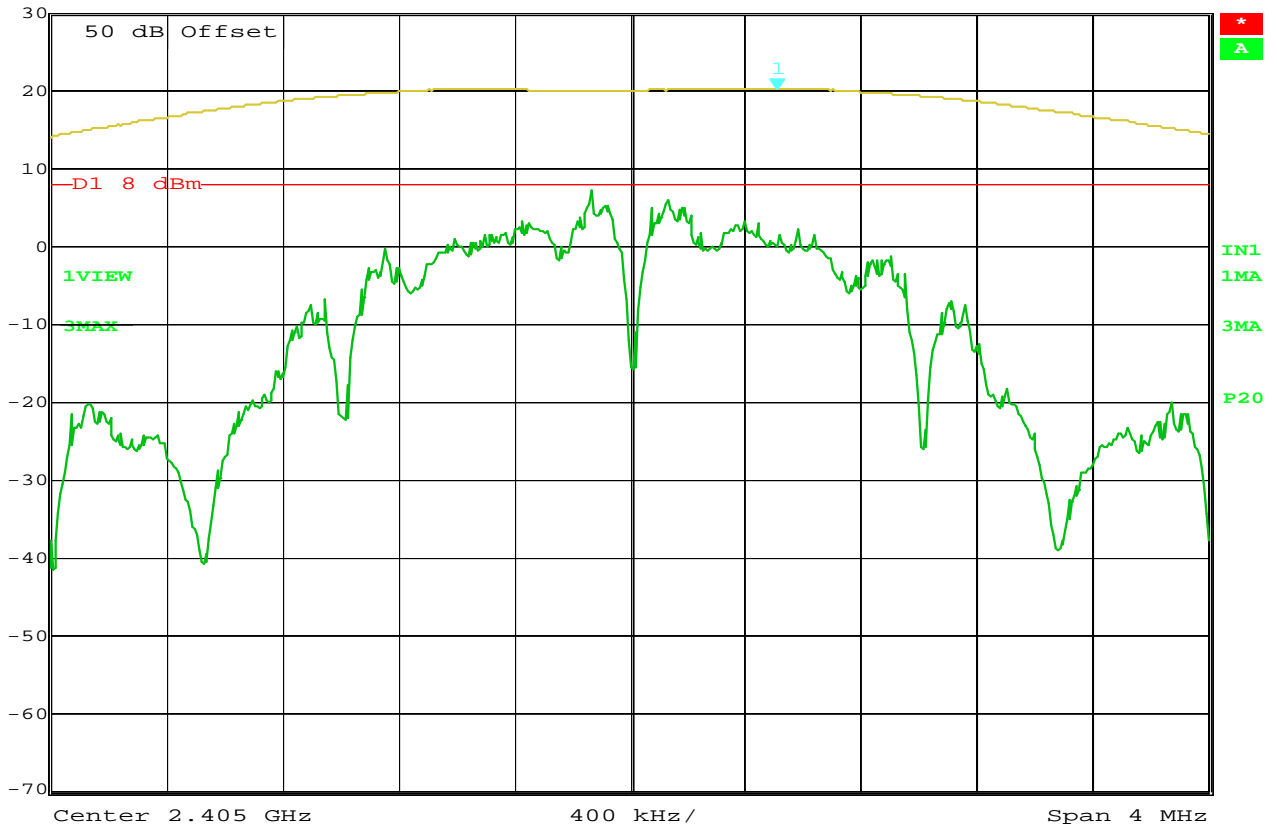
FCC 15.247 Power Spectral Density

MANUFACTURER : California Eastern Labs
 TEST ITEM : Zigbee Transceiver
 MODEL NUMBER : ZICM2410P2
 SERIAL NUMBER : 853-ES3-X3
 TEST MODE : Transmit @ 2405MHz
 TEST PARAMETERS : Power Spectral Density at 2405MHz
 NOTES : 250k data rate

NOTES



Marker 1 [T1] RBW 3 kHz RF Att 20 dB
 Ref Lvl 20.20 dBm VBW 30 kHz
 30 dBm 2.40550902 GHz SWT 1350 s Unit dBm



Date: 24.JUN.2010 11:17:51

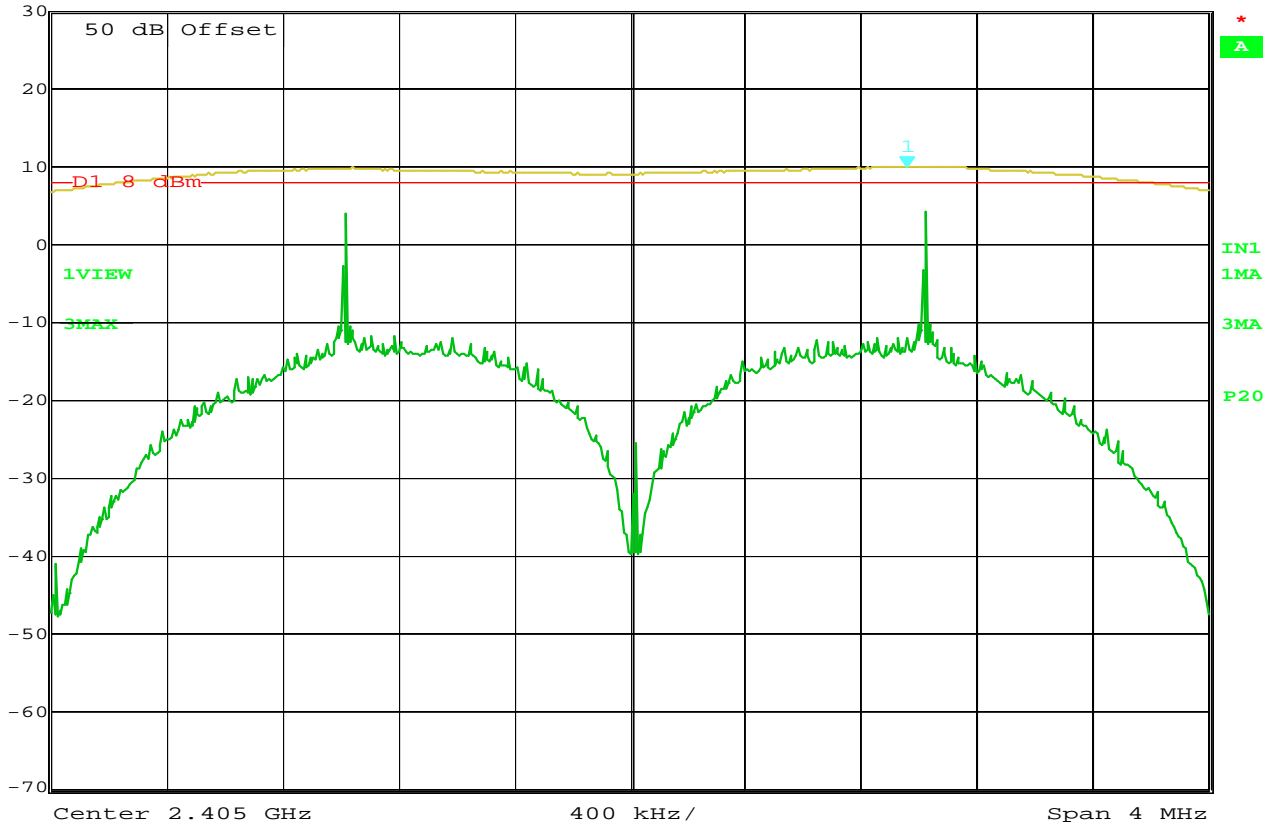
FCC 15.247 Power Spectral Density

MANUFACTURER : California Eastern Labs
 TEST ITEM : Zigbee Transceiver
 MODEL NUMBER : ZICM2410P2
 SERIAL NUMBER : 853-ES3-X3
 TEST MODE : Transmit @ 2405MHz
 TEST PARAMETERS : Power Spectral Density at 2405MHz
 NOTES : 500k data rate

NOTES



Marker 1 [T1] RBW 3 kHz RF Att 20 dB
 Ref Lvl 9.89 dBm VBW 30 kHz
 30 dBm 2.40595792 GHz SWT 1350 s Unit dBm



Date: 24.JUN.2010 12:19:40

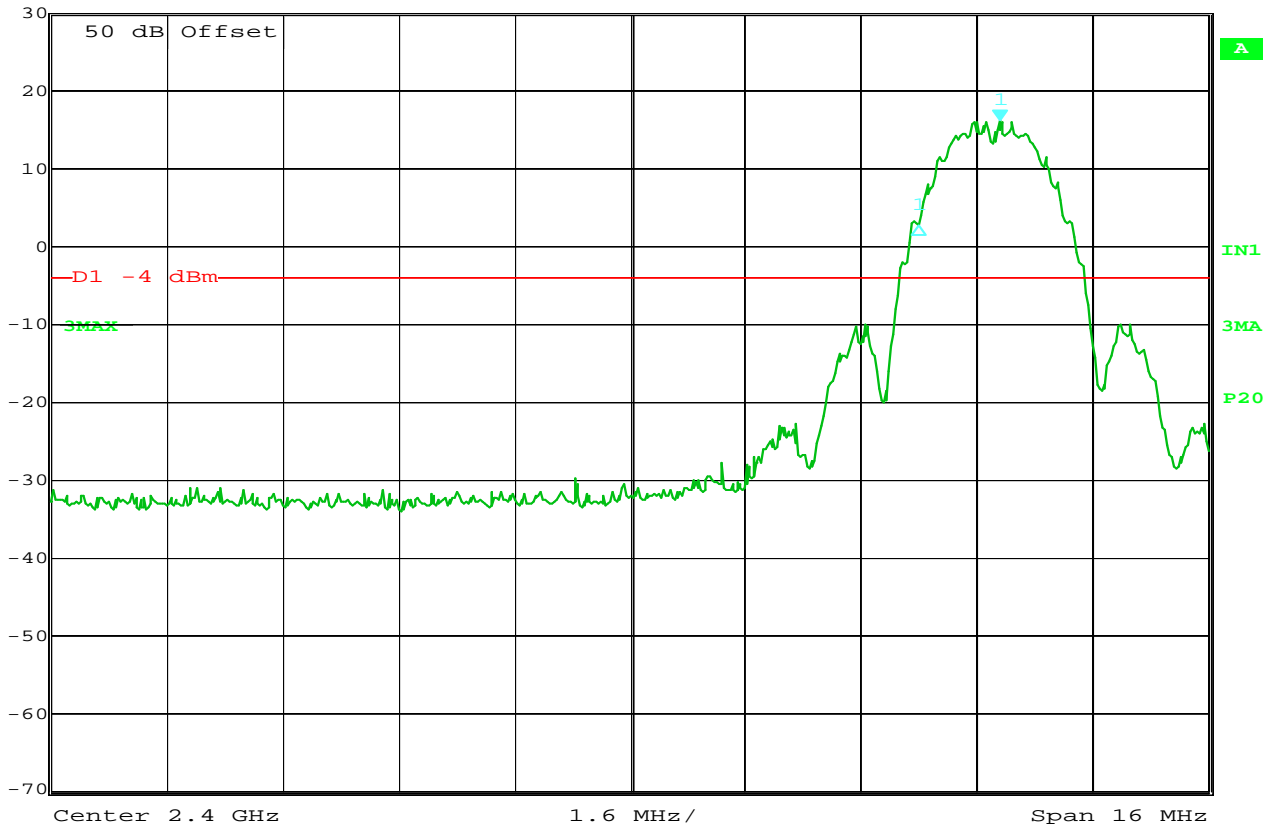
FCC 15.247 Power Spectral Density

MANUFACTURER : California Eastern Labs
 TEST ITEM : Zigbee Transceiver
 MODEL NUMBER : ZICM2410P2
 SERIAL NUMBER : 853-ES3-X3
 TEST MODE : Transmit @ 2405MHz
 TEST PARAMETERS : Power Spectral Density at 2405MHz
 NOTES : 1Mbpsdata rate

NOTES



Marker 1 [T3] RBW 100 kHz RF Att 20 dB
 Ref Lvl 16.00 dBm VBW 1 MHz
 30 dBm 2.40511423 GHz SWT 5 ms Unit dBm



Date: 24.JUN.2010 12:40:44

FCC 15.247 Band Edge Compliance

MANUFACTURER : California Eastern Labs
 TEST ITEM : Zigbee Transceiver
 MODEL NUMBER : ZICM2410P2
 SERIAL NUMBER : 853-ES3-X3
 TEST MODE : Transmit @ 2405MHz
 TEST PARAMETERS : Band Edge Compliance at 2400MHz
 NOTES : Center is at 2400MHz

NOTES

Manufacturer : California Eastern Labs
 Test Item : Zigbee Transceiver
 Model No. : ZICM2410P2
 Serial No. : 856-ES3-X3
 Test Specification : FCC Part 15, Subpart C, Section 15.247, Band-edge compliance
 Date : June 24 and 25, 2010
 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	11.7		3.8	31.4	46.9	221.5	500
2483.5	V	17.8		3.8	31.4	53.0	448.7	500

Total = Meter Reading + Cable Loss + Antenna Factor

Checked BY Richard E. King :

Richard E. King