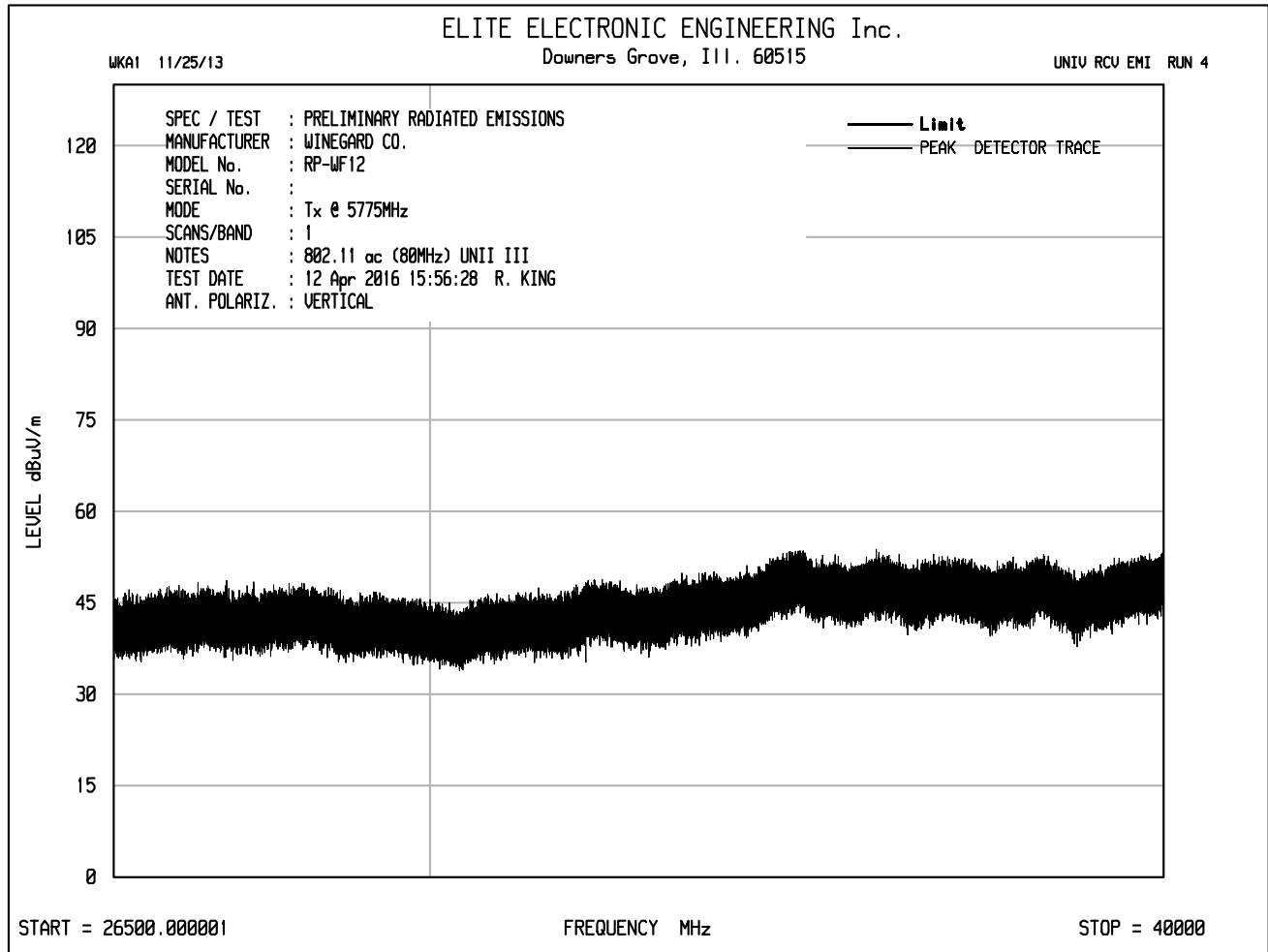
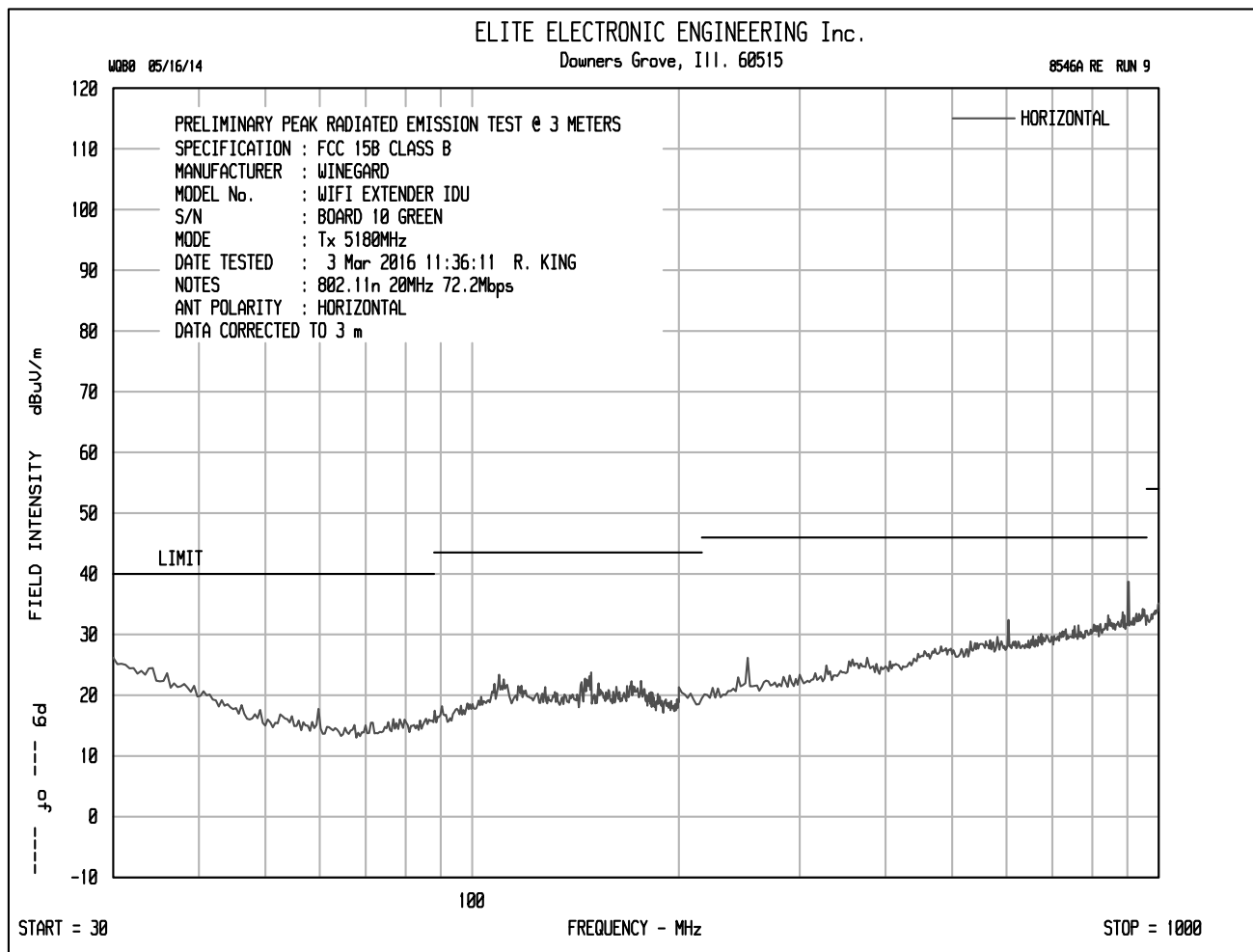
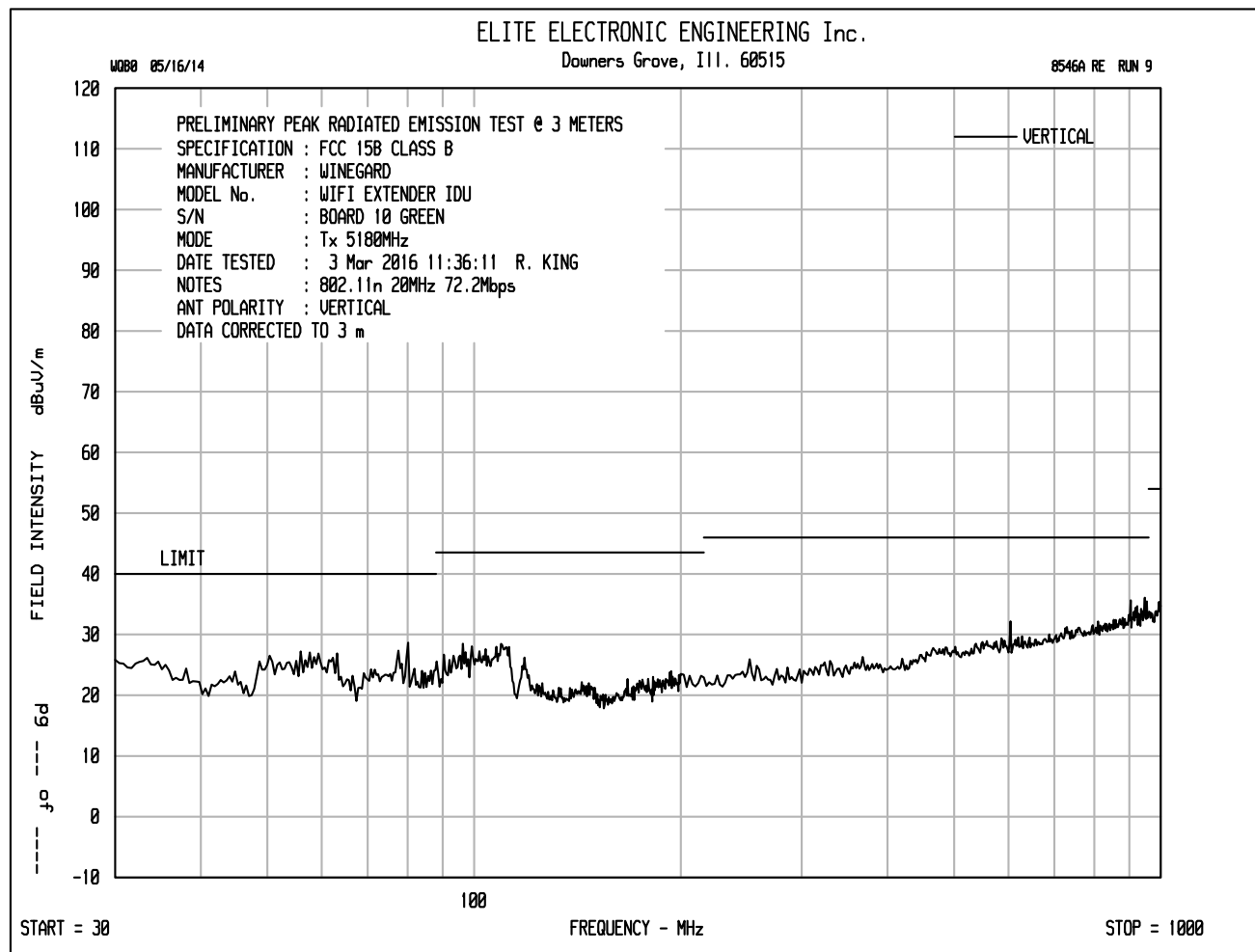
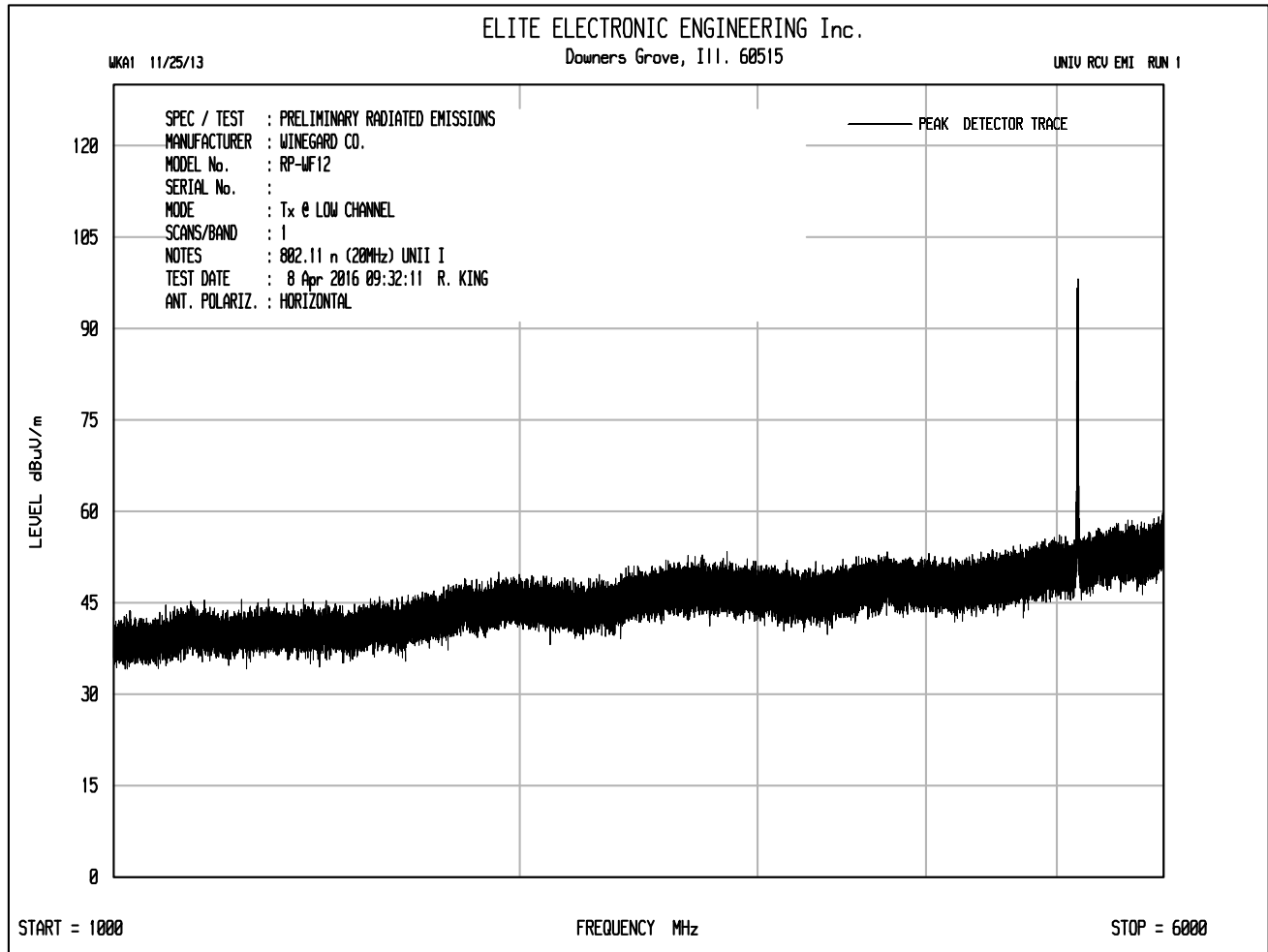
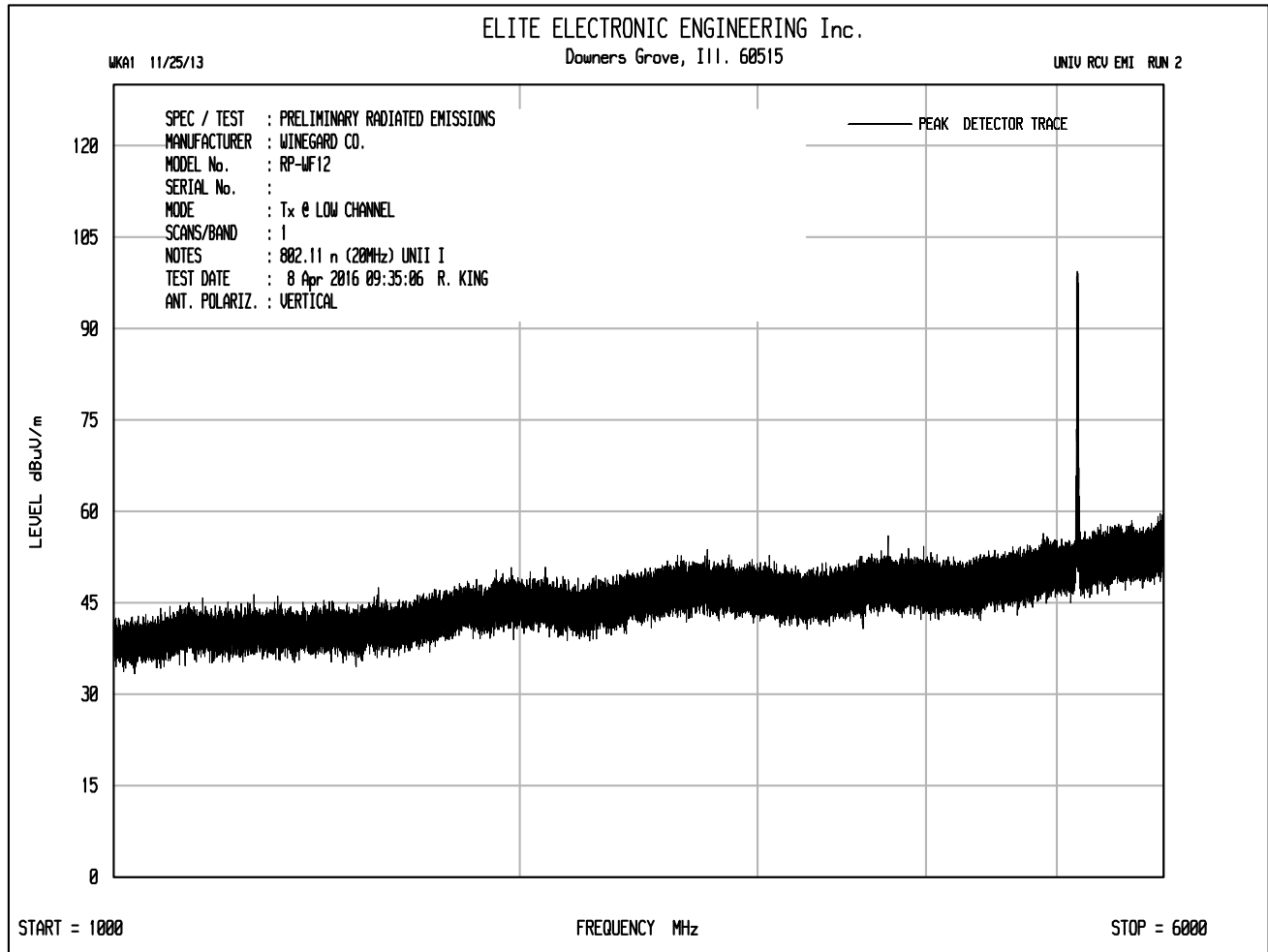


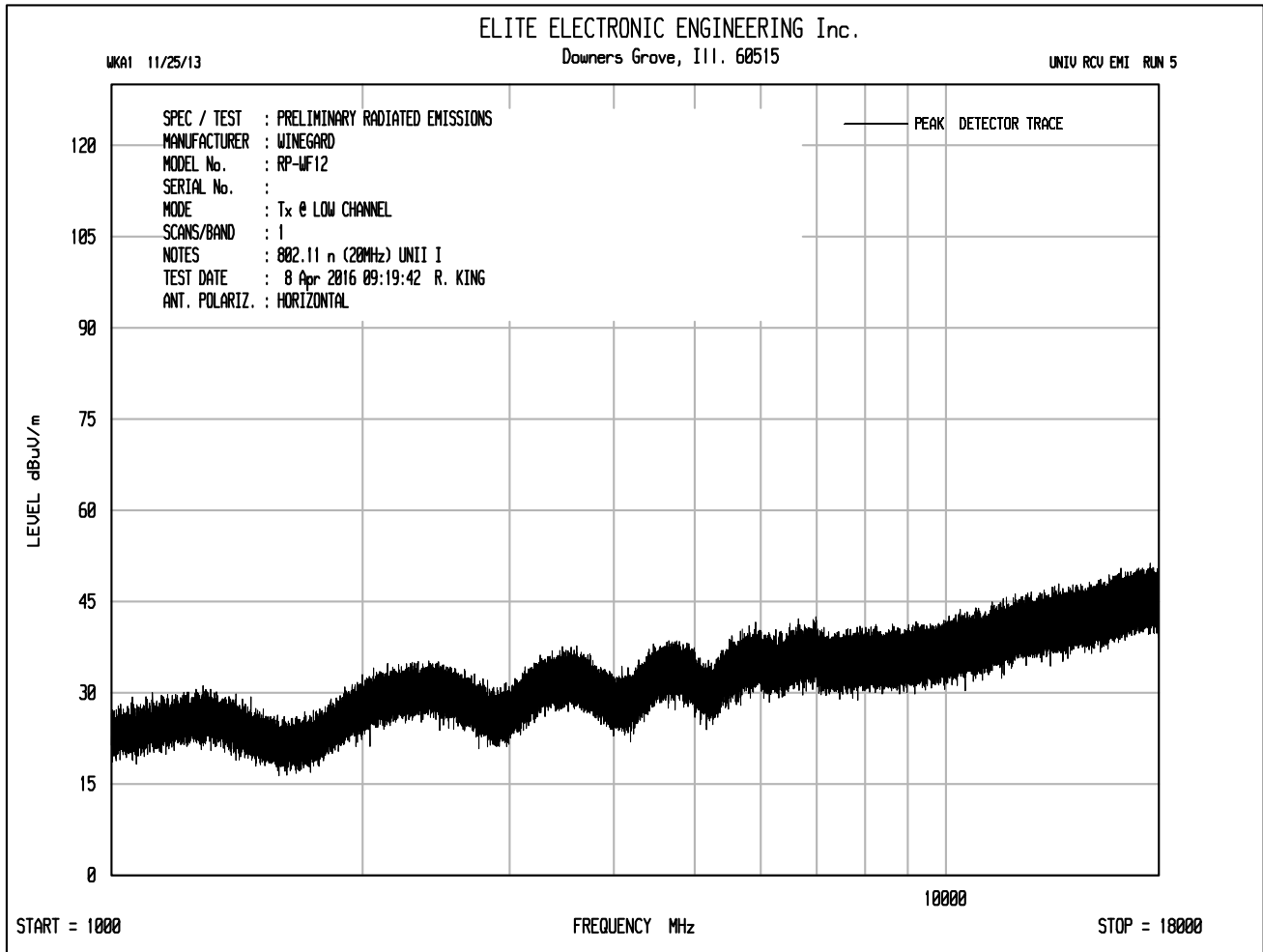


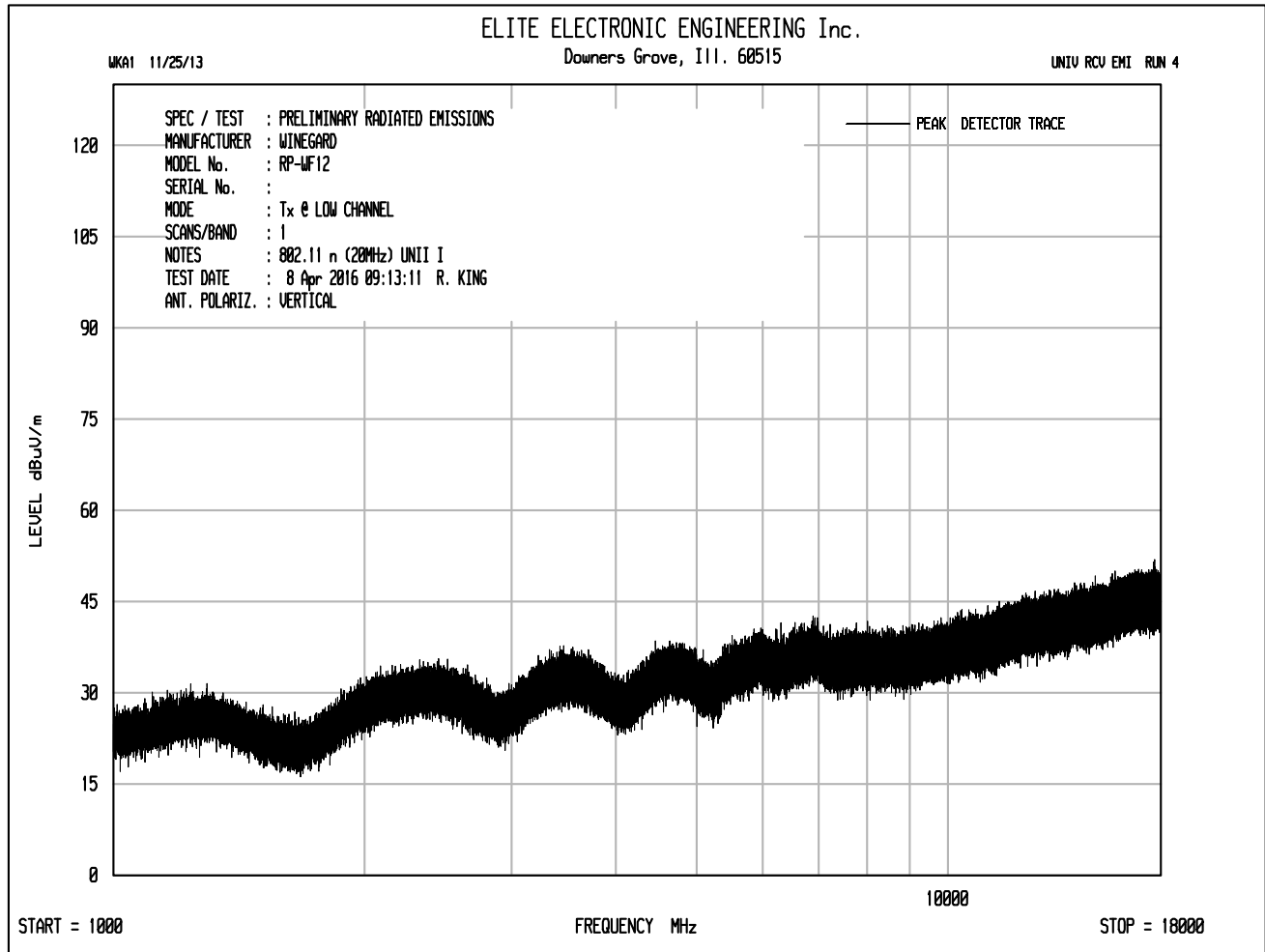


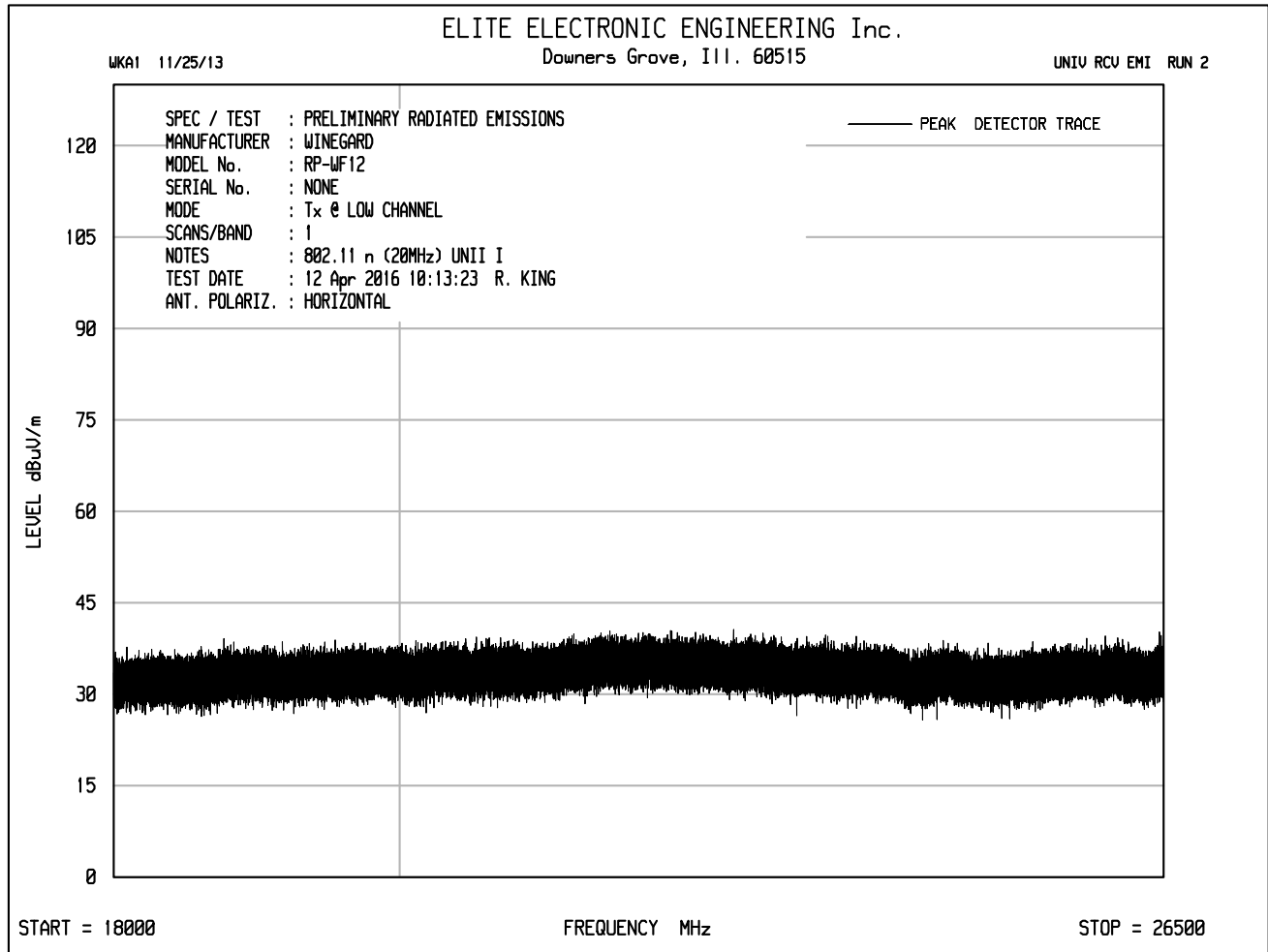


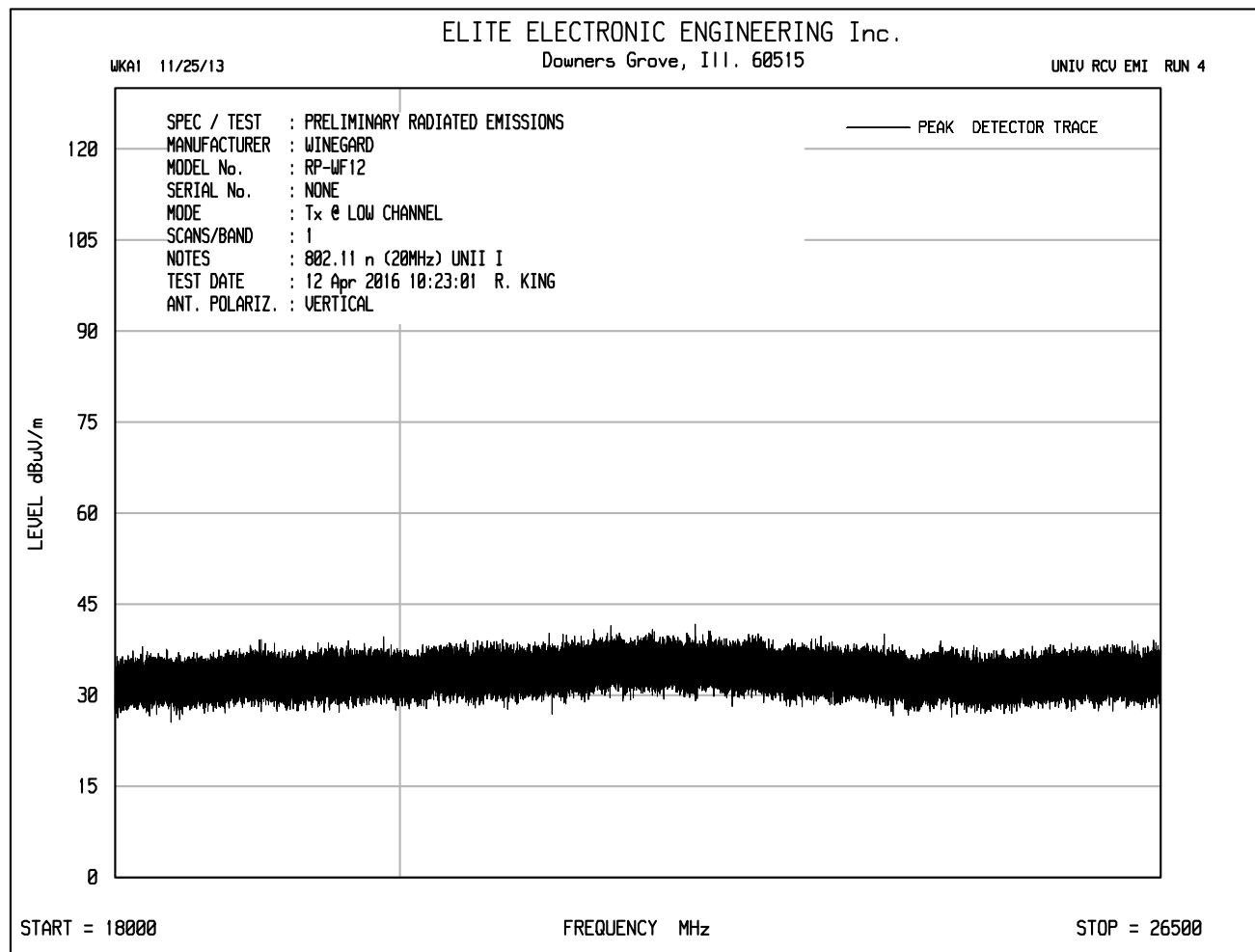


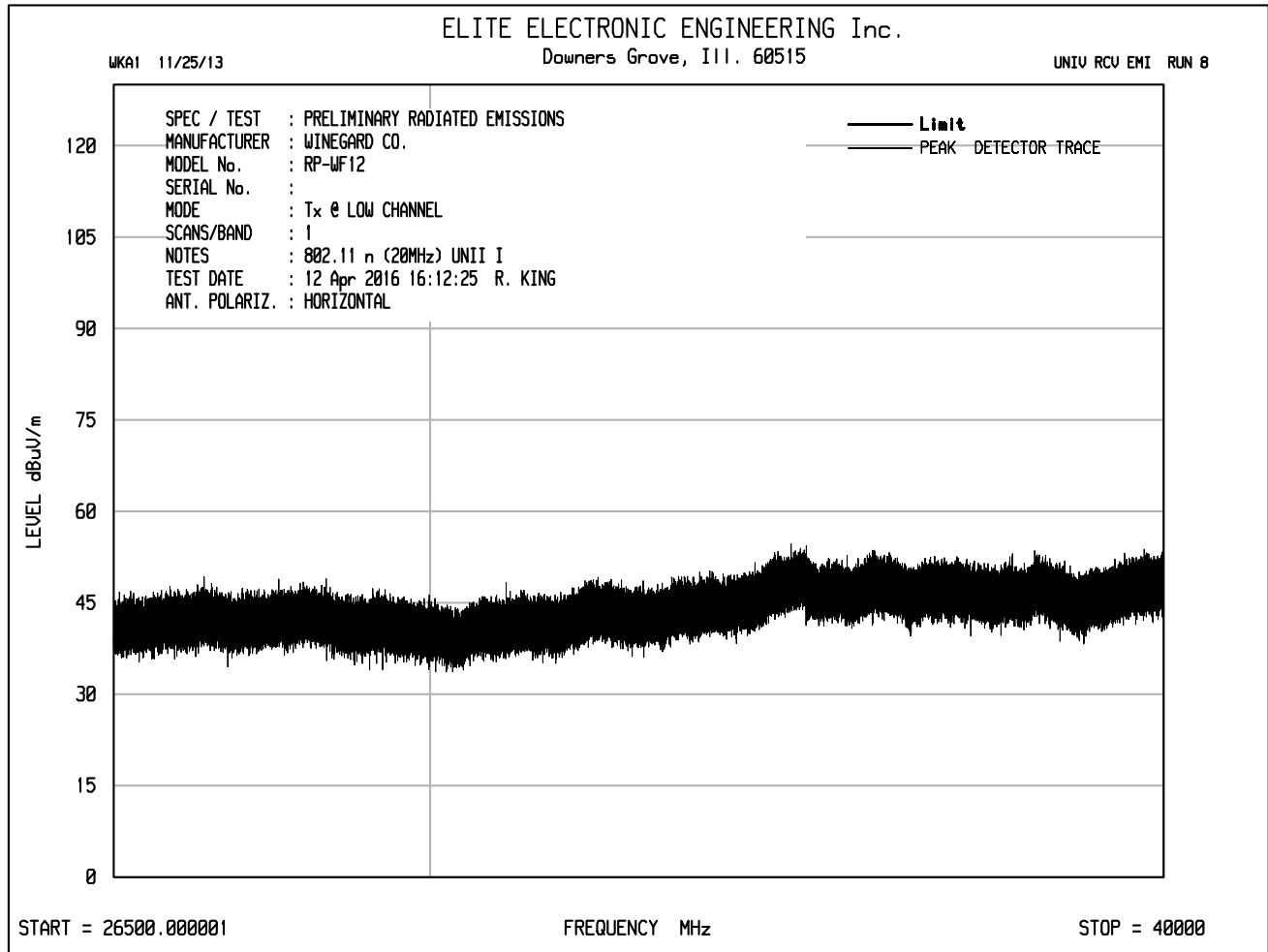


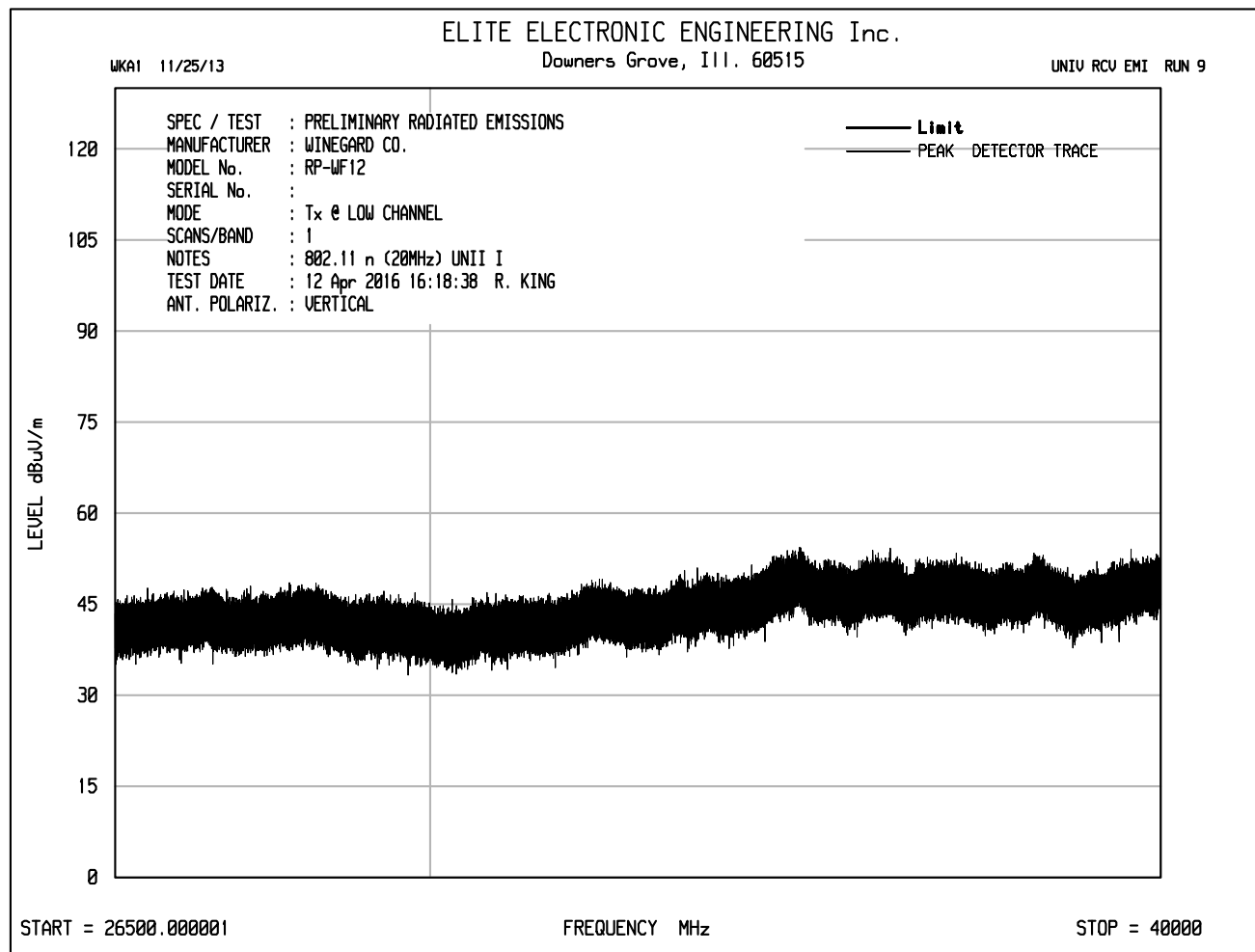


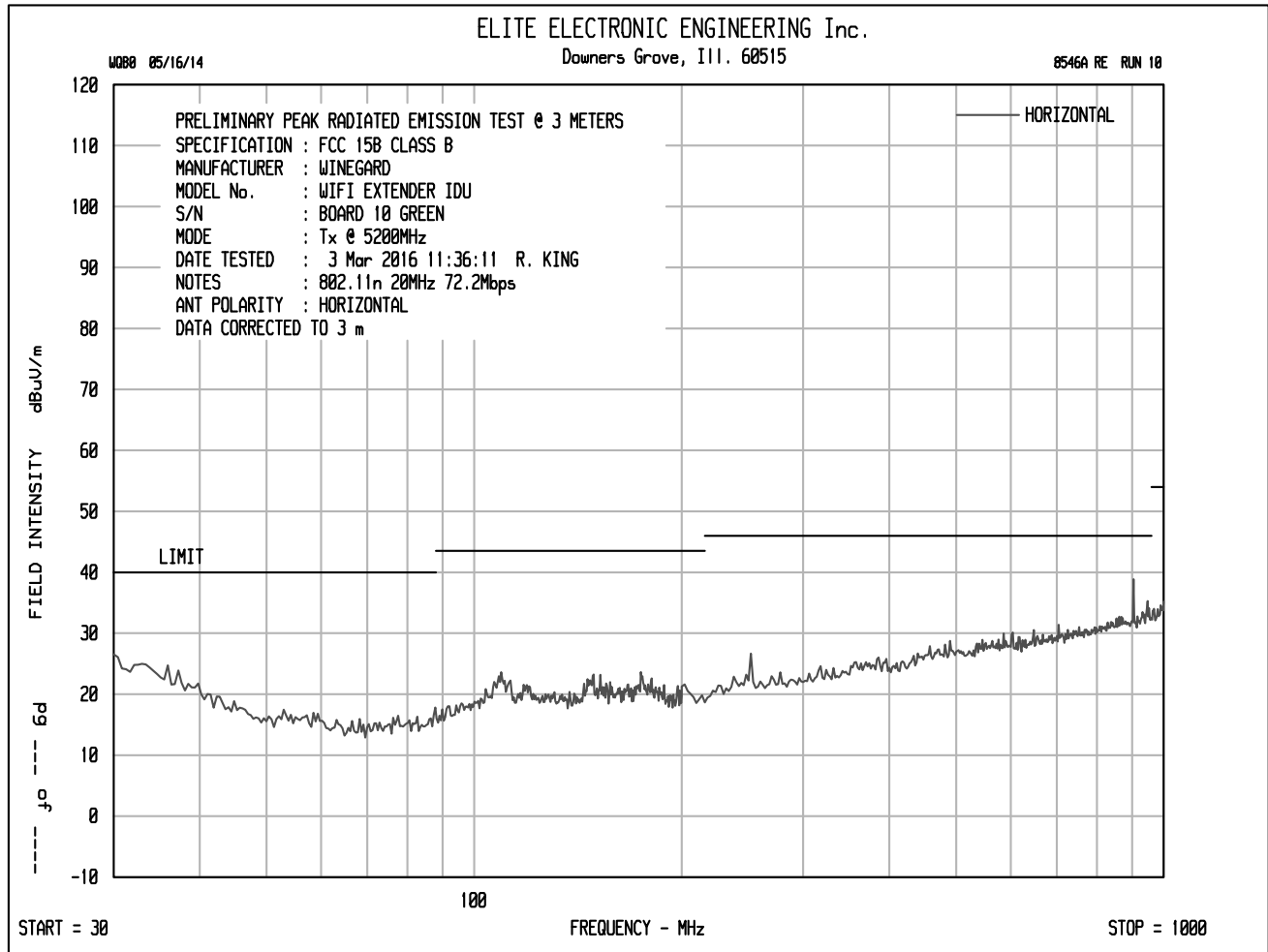


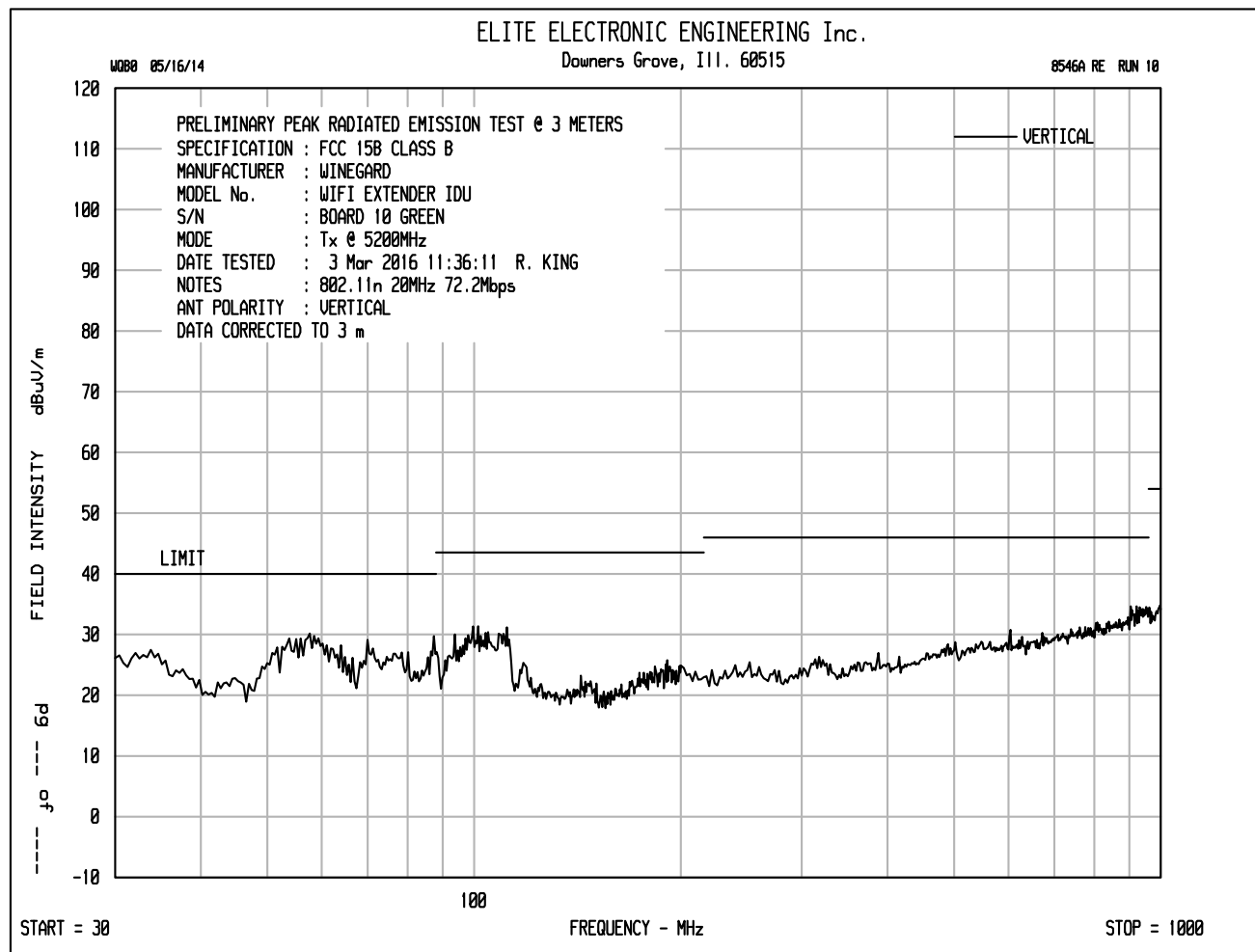


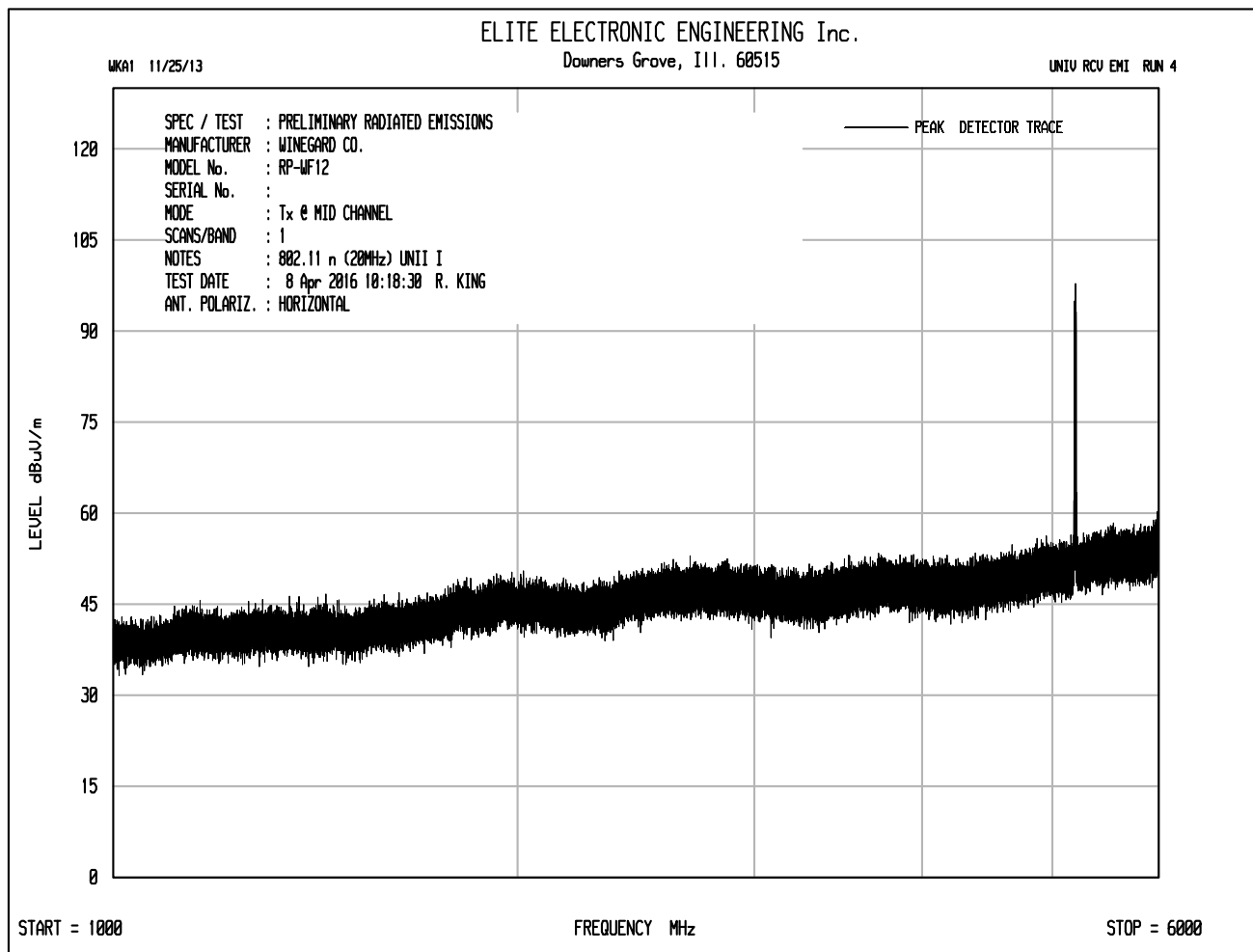


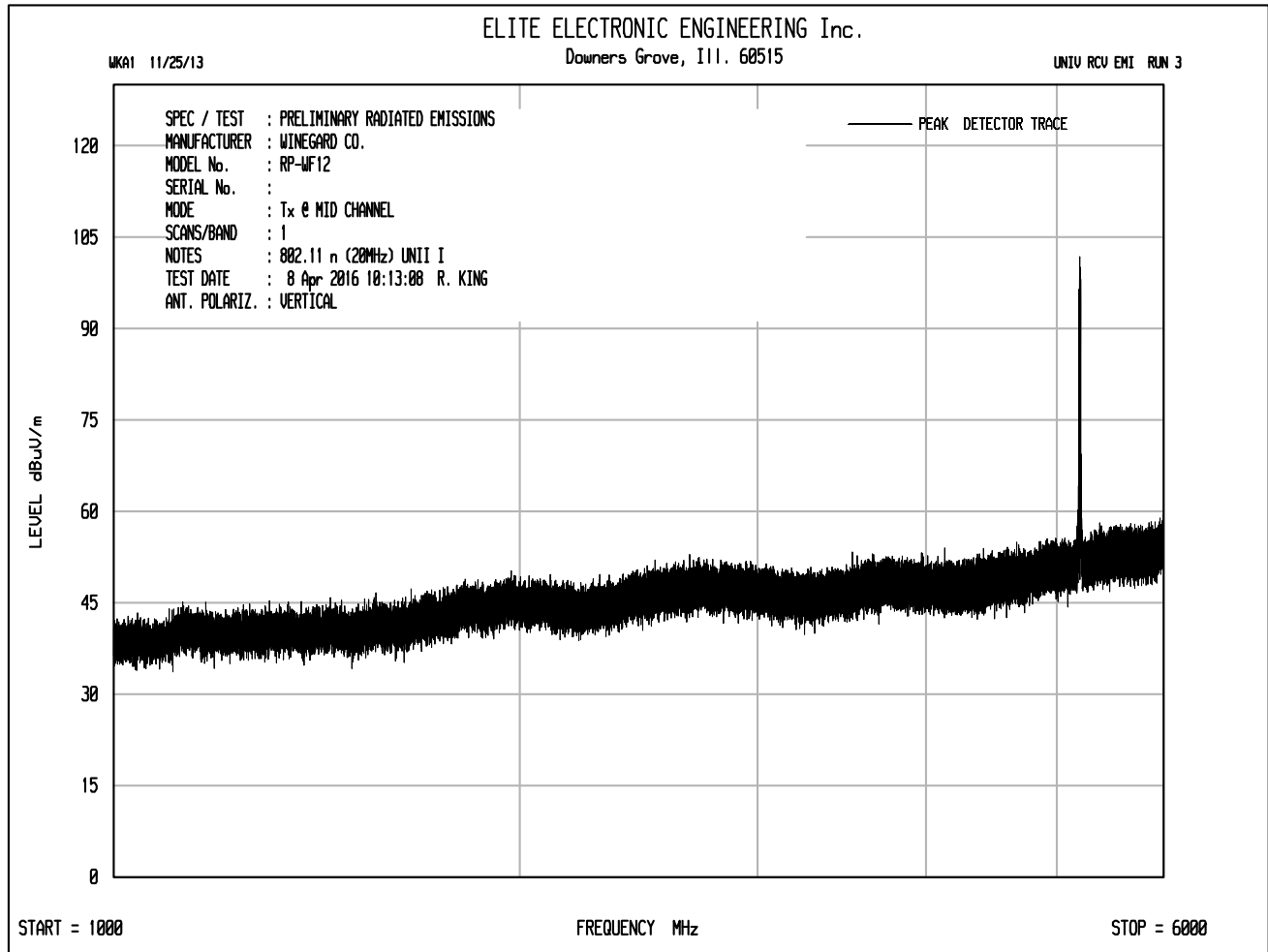


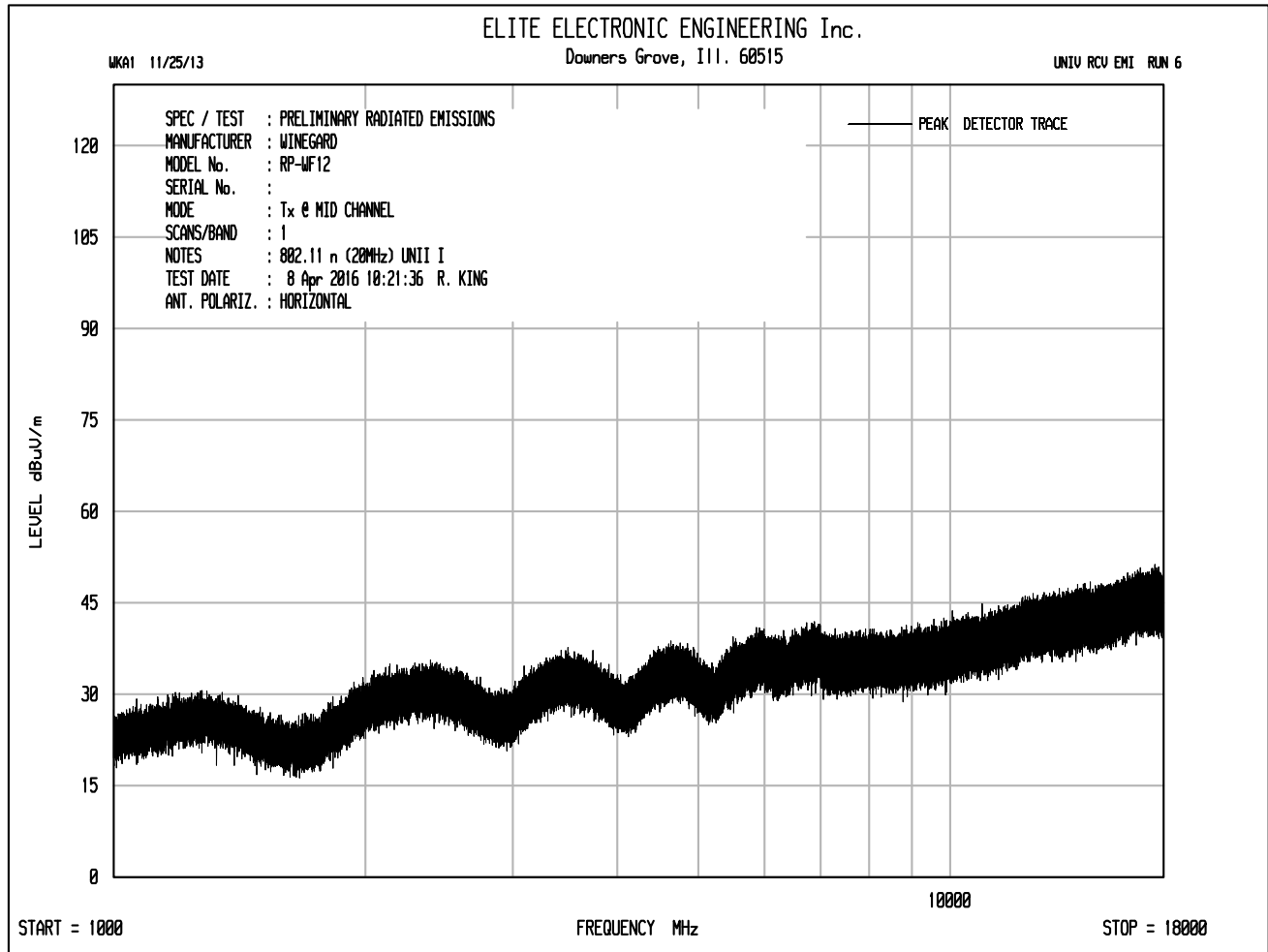


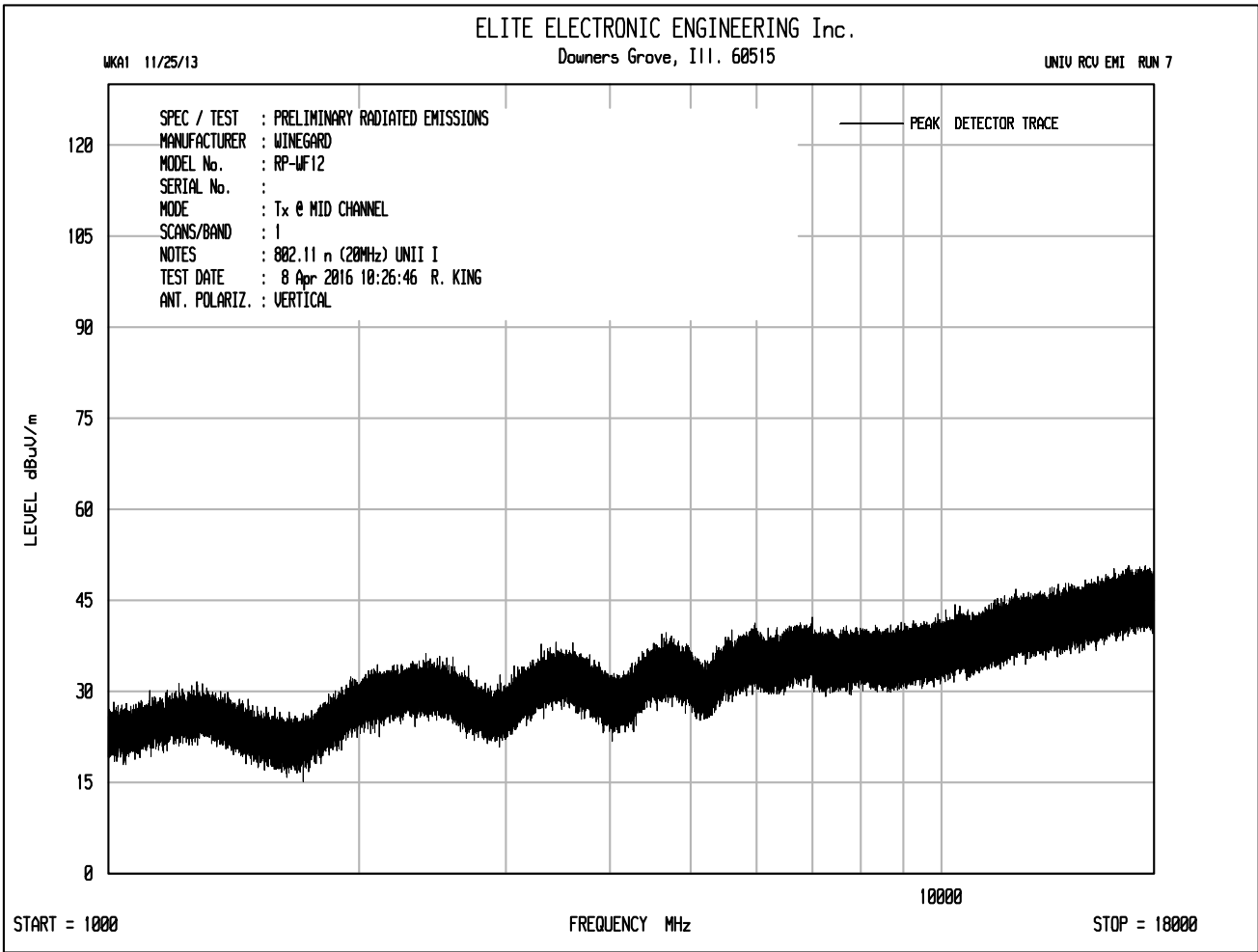


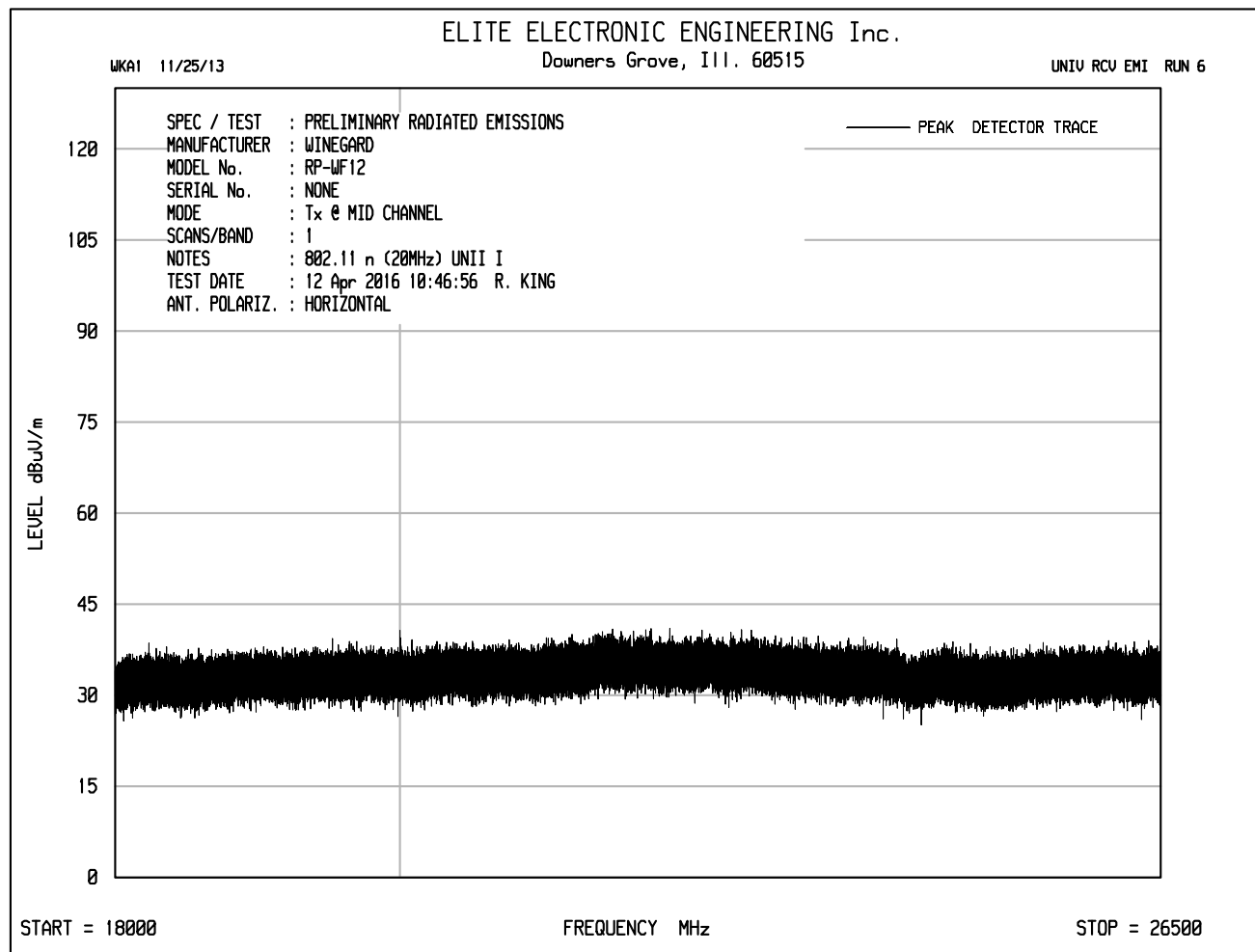


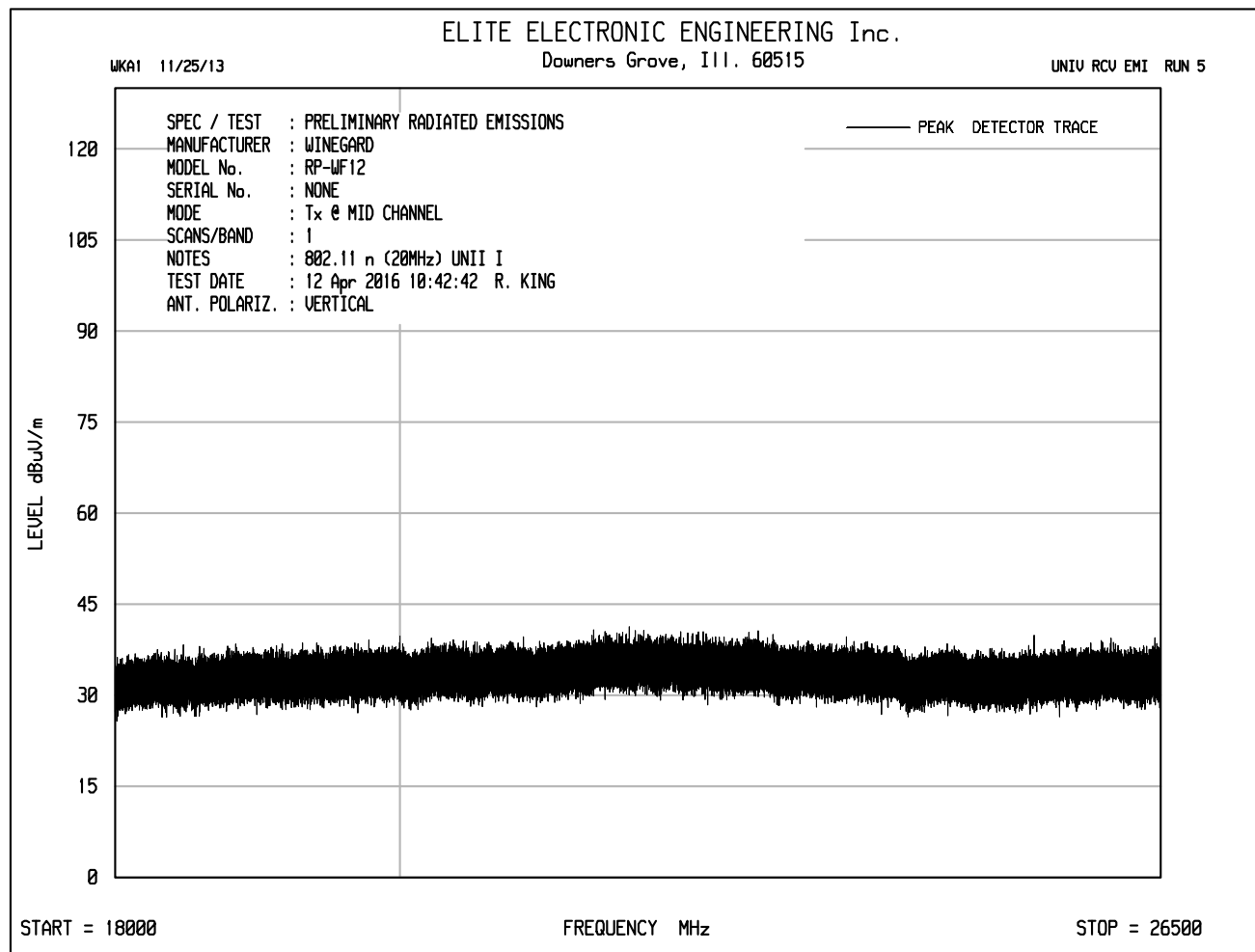


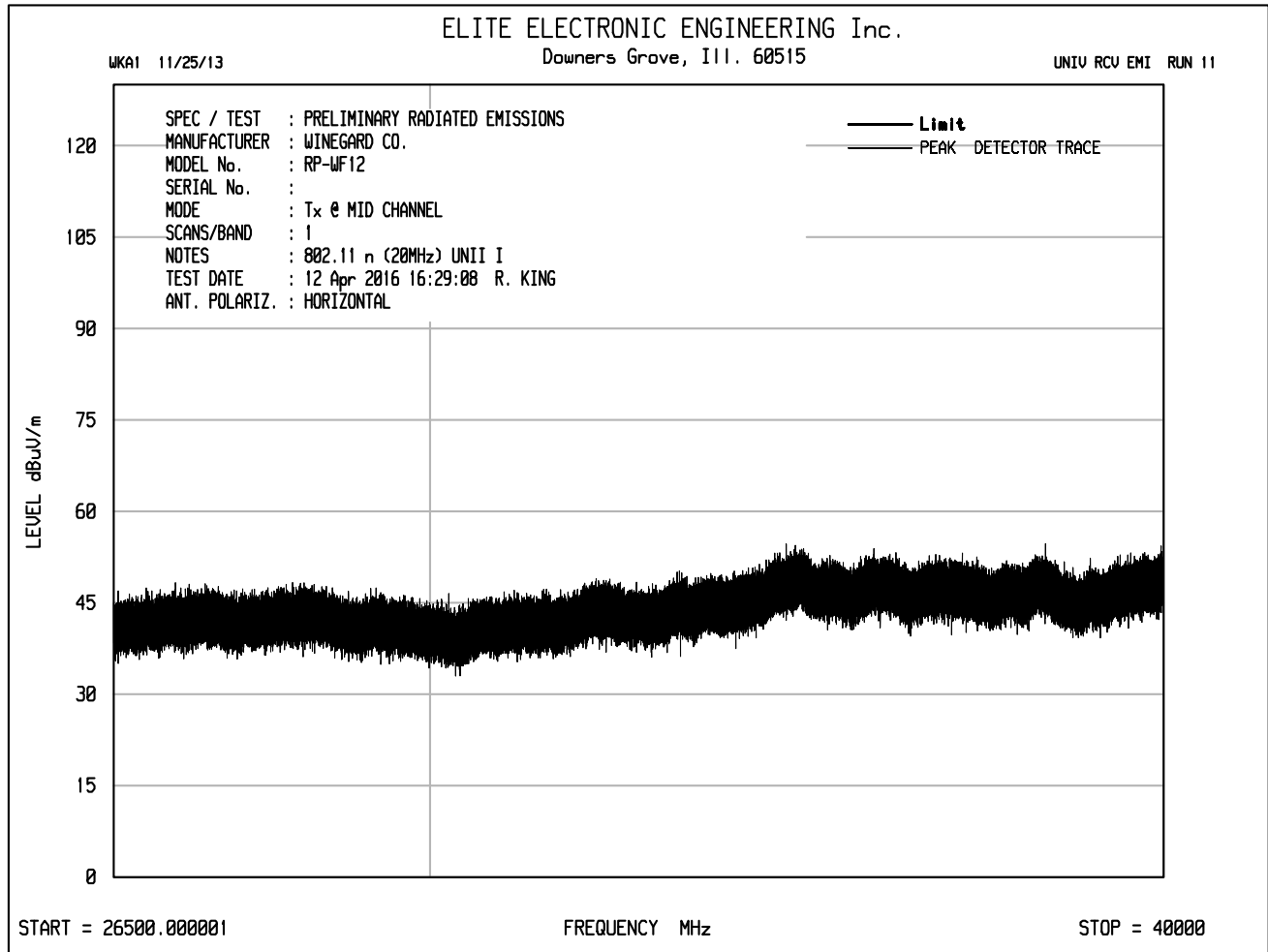


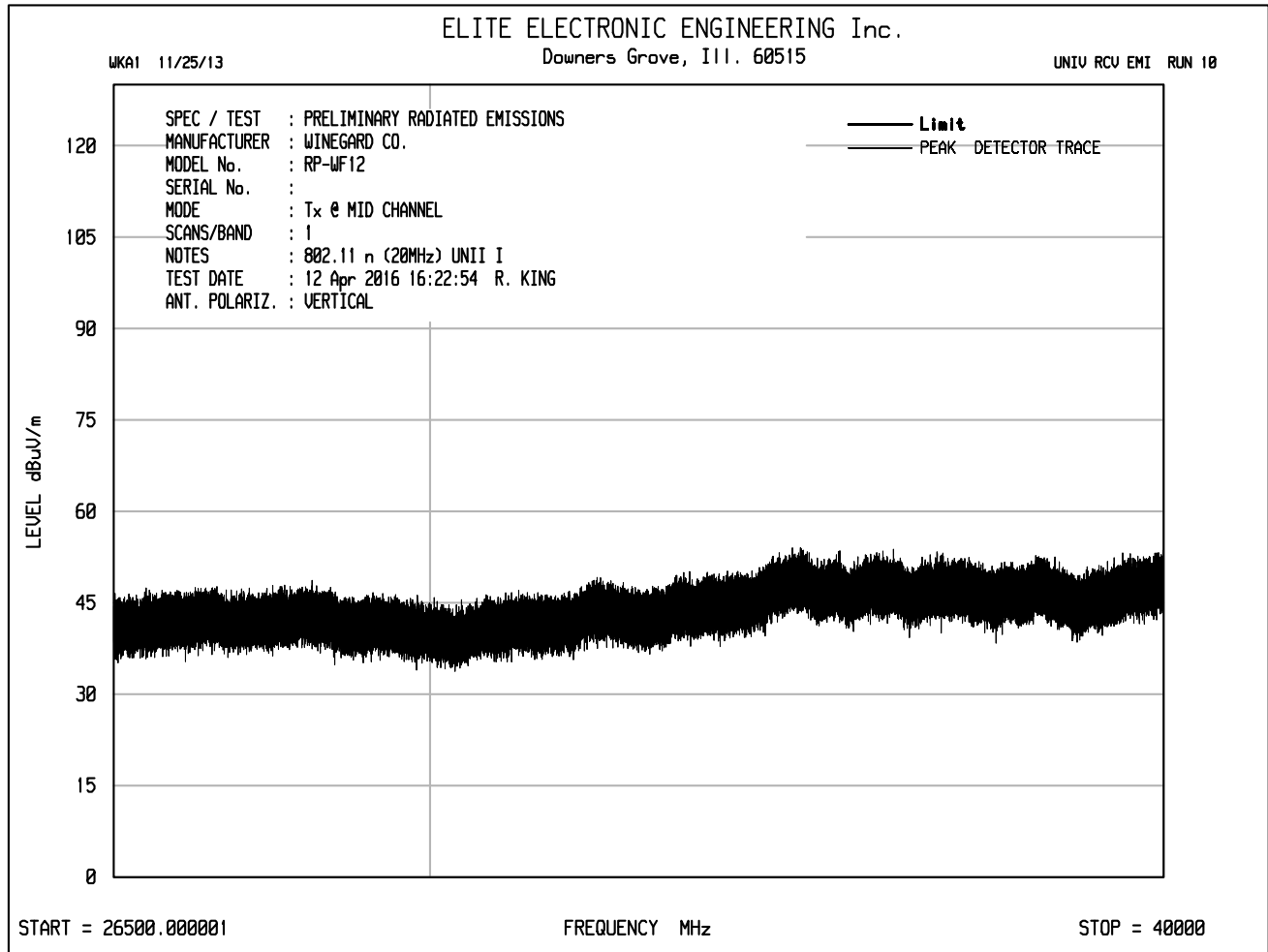


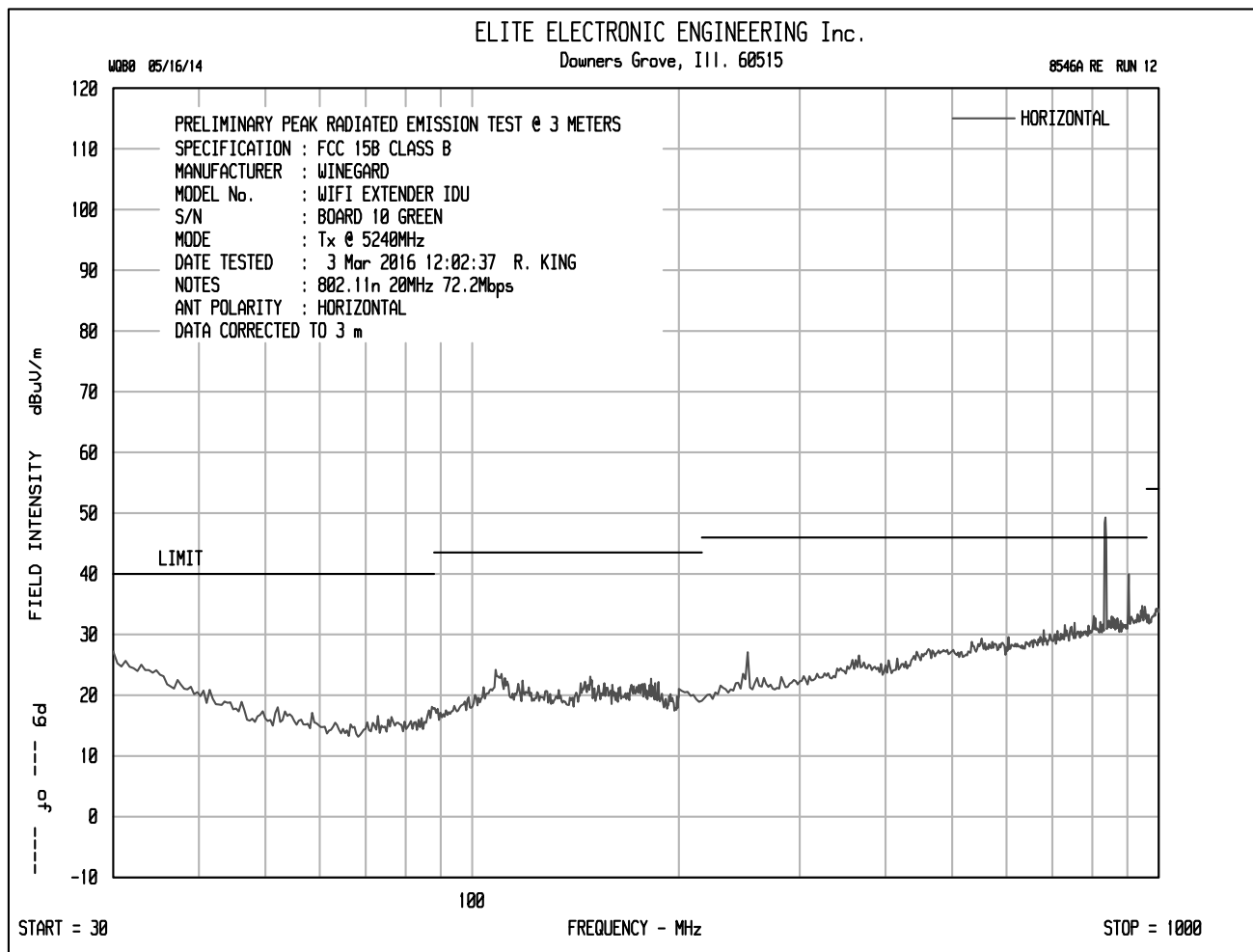


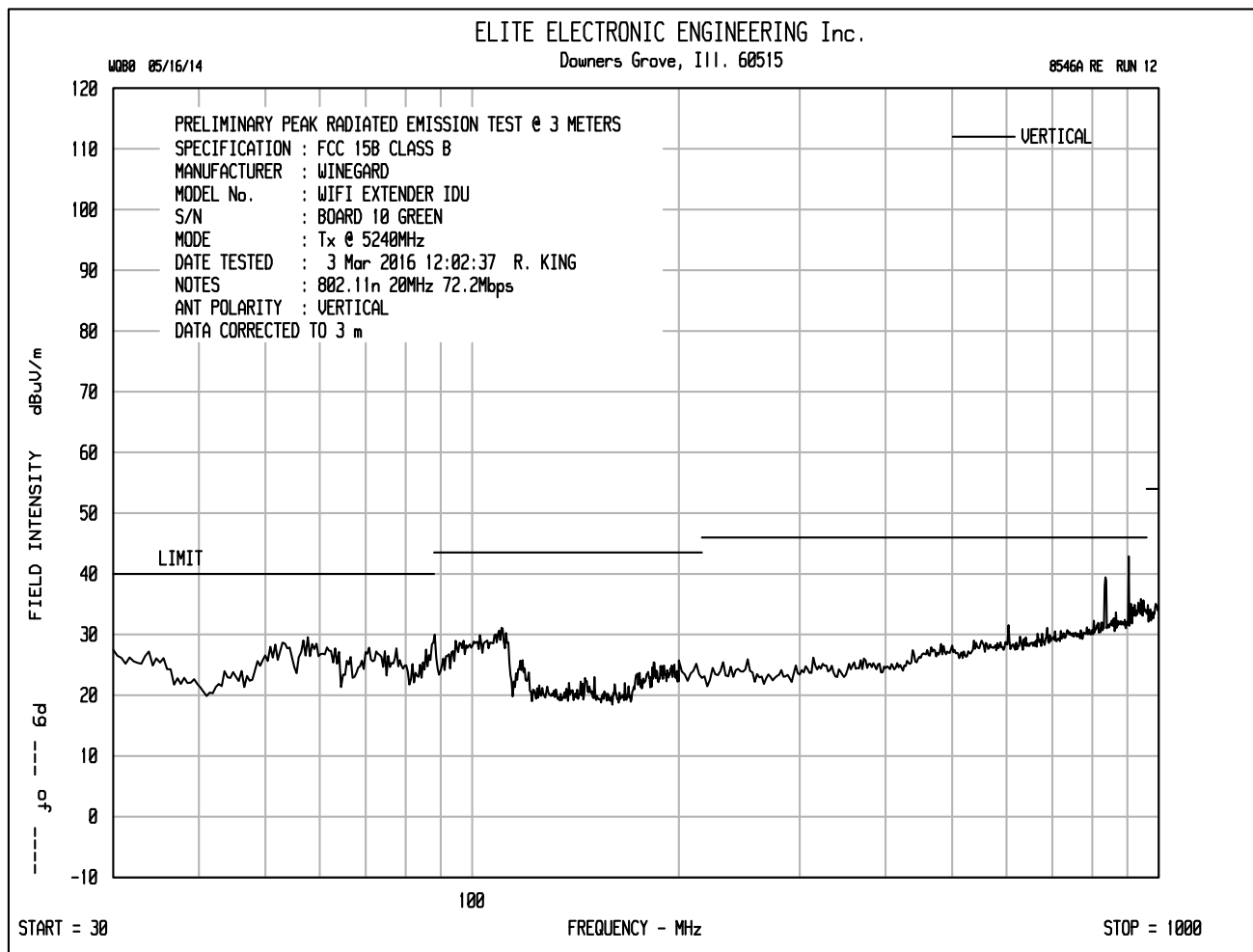












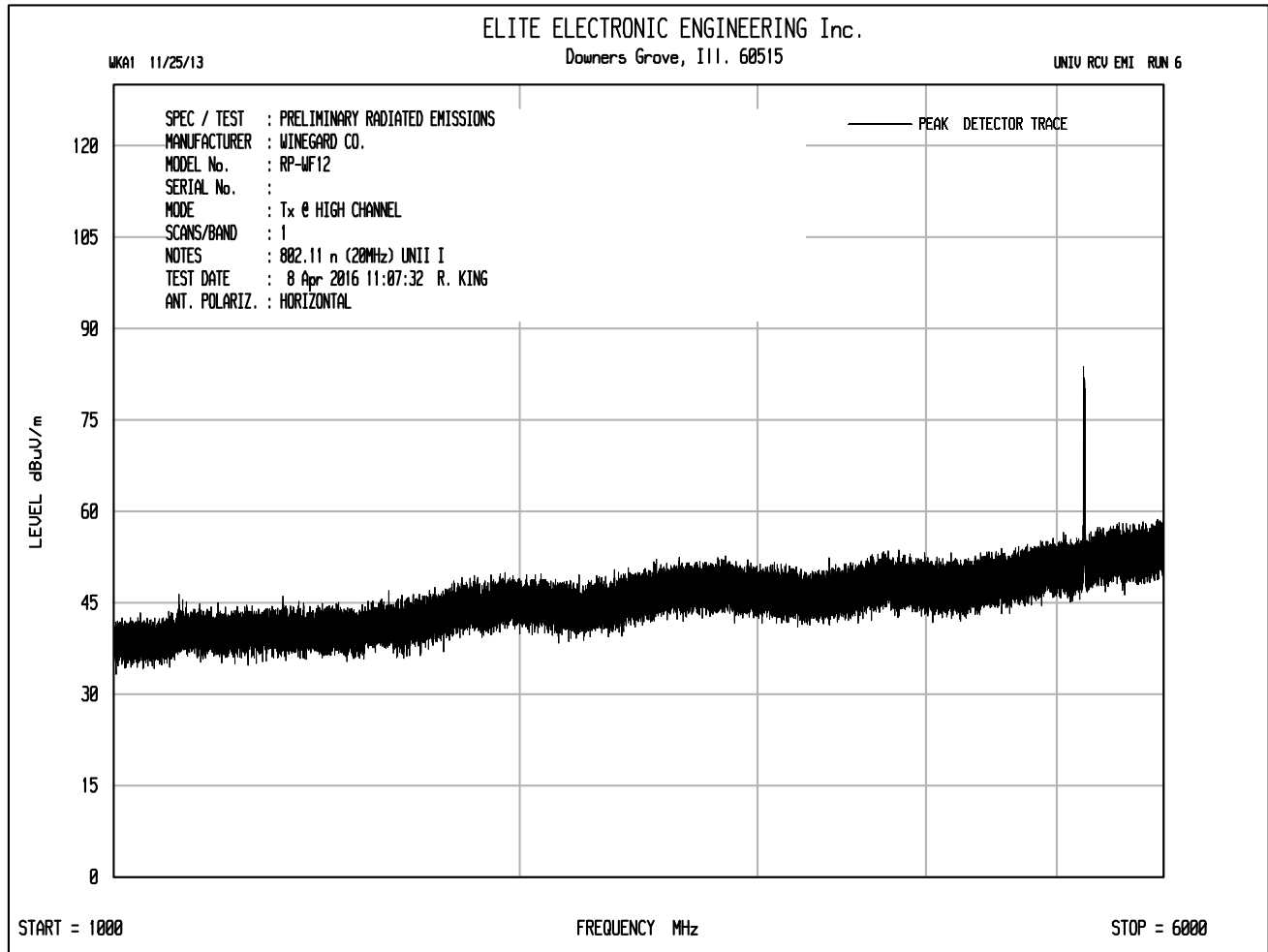
ETR No.
DATA SHEET8546A
TEST NO. 12

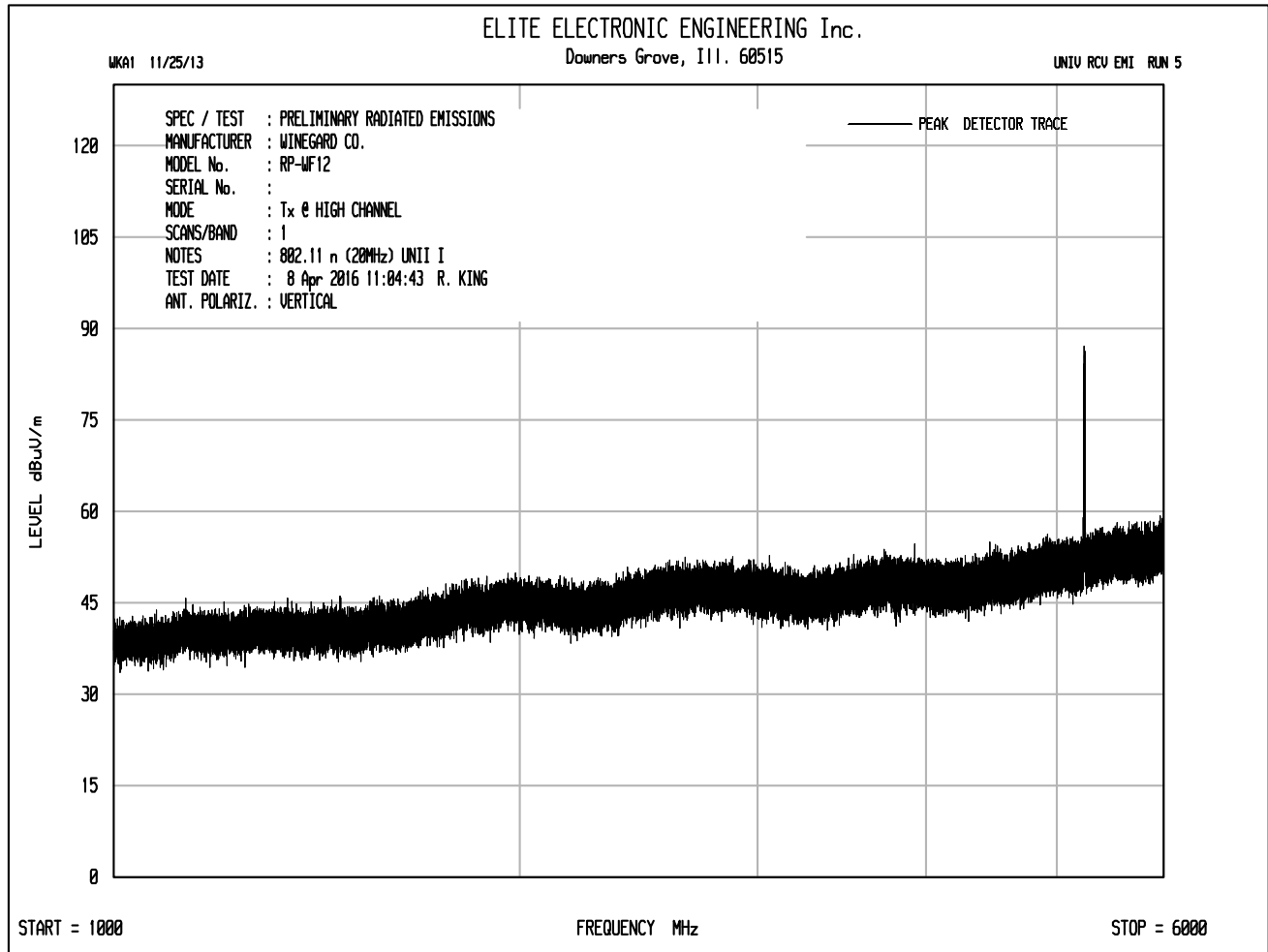
RADIATED QP EMISSION MEASUREMENTS in a 3 m SEMI-ANECHOIC ROOM

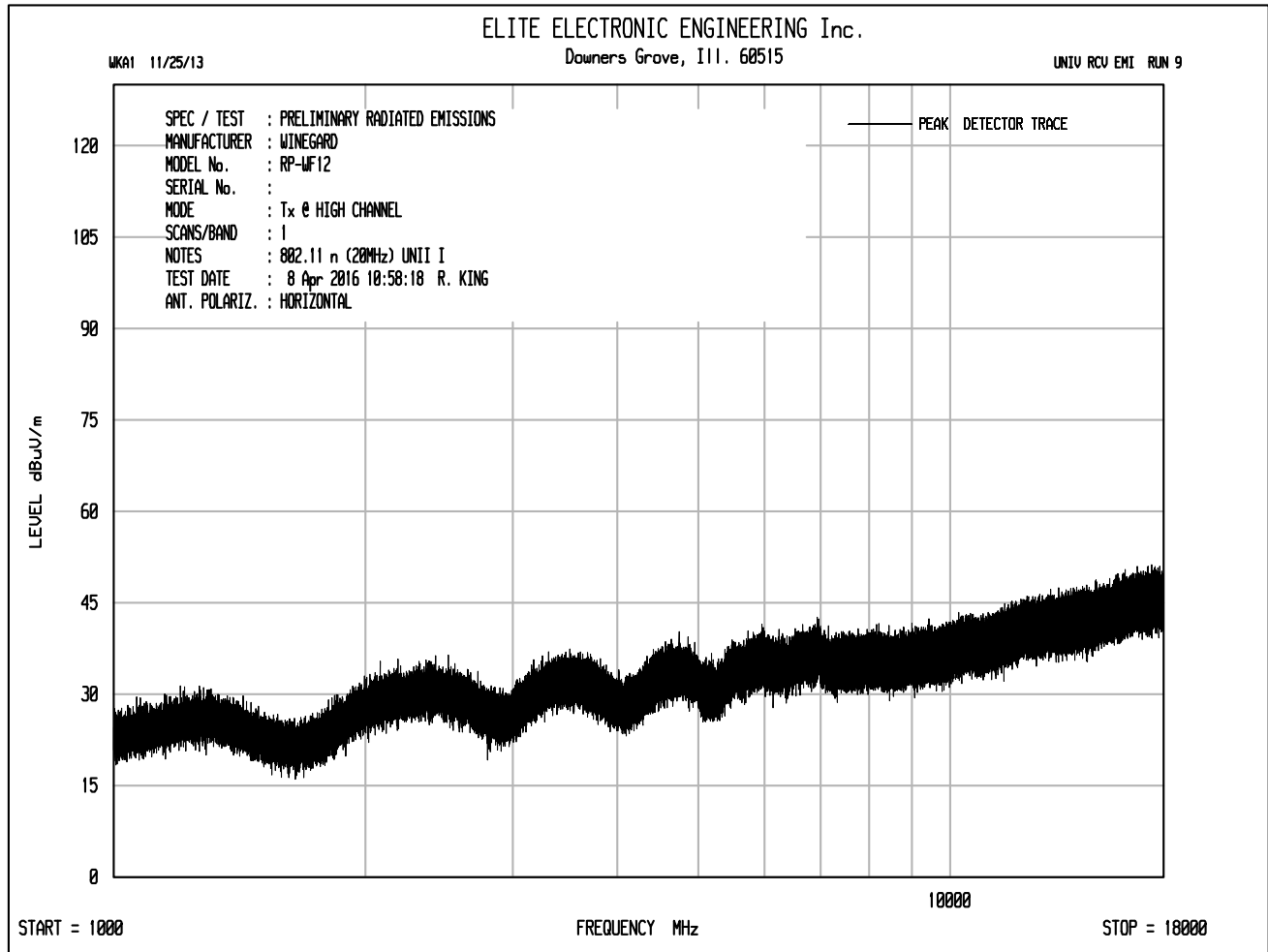
SPECIFICATION : FCC 15B CLASS B
MANUFACTURER : WINEGARD
MODEL NO. : WIFI EXTENDER IDU
SERIAL NO. : BOARD 10 GREEN
TEST MODE : Tx @ 5240MHz
NOTES : 802.11n 20MHz 72.2Mbps
TEST DATE : 3 Mar 2016 12:02:37
TEST DISTANCE : 3 m

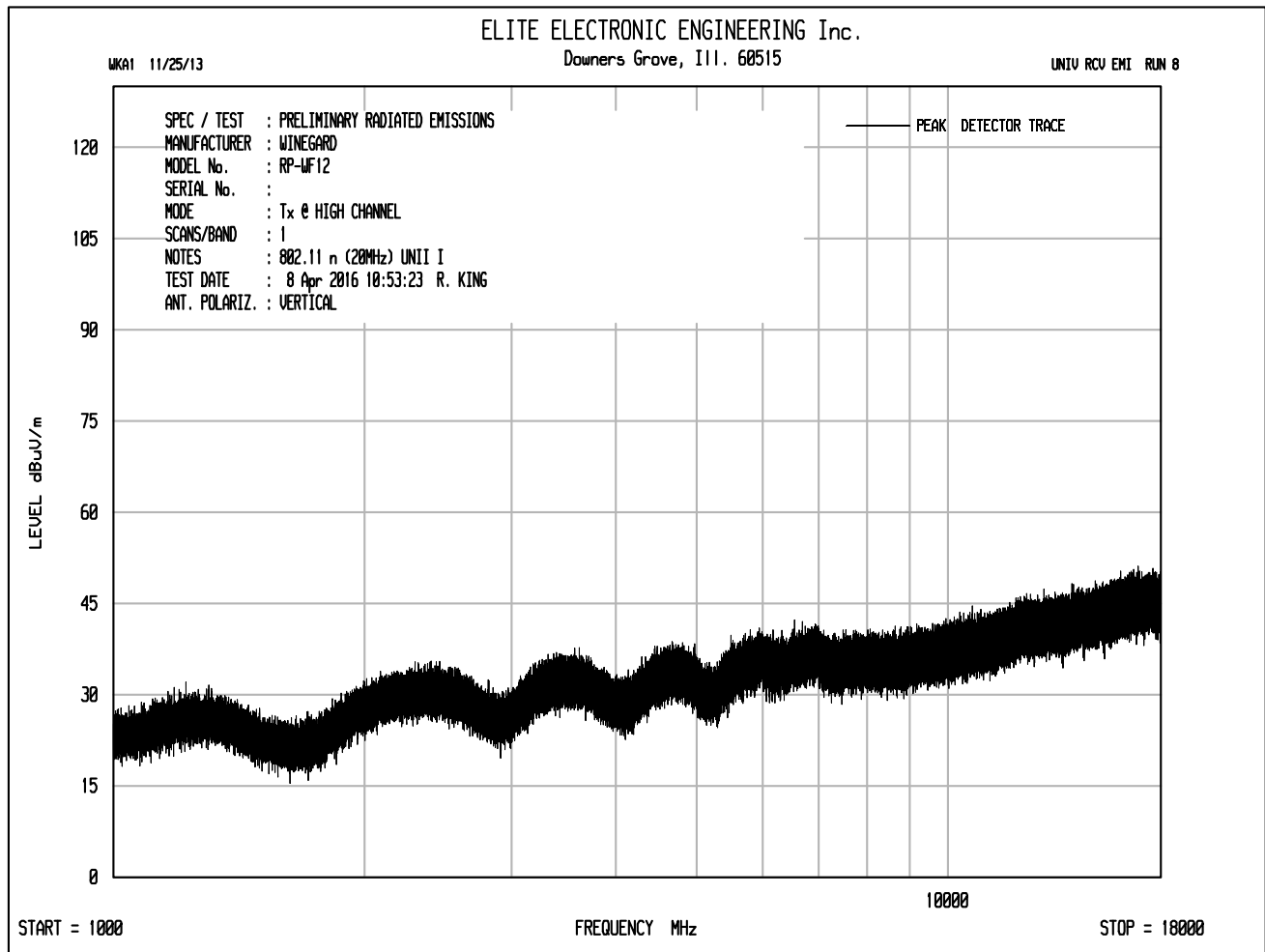
FREQUENCY MHz	QP READING dBuV	ANT FAC dB	CBL FAC dB	EXT ATTN dB	DIST FAC dB	TOTAL dBuV/m	QP LIMIT dBuV/m	AZ deg	ANT HT cm	ANT POL
50.44	9.0	13.8	.5	0.0	0.0	23.3	40.0	45	120	V
58.77	15.0	12.5	.5	0.0	0.0	28.0	40.0	315	120	V
86.95	11.6	14.4	.5	0.0	0.0	26.5	40.0	225	120	V
108.78	13.8	17.9	.6	0.0	0.0	32.3	43.5	180	120	V
143.92	-.3	16.8	.8	0.0	0.0	17.4	43.5	90	120	V
148.13	2.3	16.5	.8	0.0	0.0	19.7	43.5	135	340	H
184.50	4.6	15.2	.9	0.0	0.0	20.8	43.5	135	120	V
204.17	.9	15.3	1.0	0.0	0.0	17.1	43.5	90	340	V
369.01	-5.4	20.8	1.4	0.0	0.0	16.7	46.0	225	340	H
465.07	-6.2	23.1	1.5	0.0	0.0	18.5	46.0	45	200	V
552.21	-6.8	24.8	1.5	0.0	0.0	19.5	46.0	135	200	H
600.01	3.3	24.7	1.5	0.0	0.0	29.6	46.0	180	120	V
755.70	-5.5	25.7	1.9	0.0	0.0	22.1	46.0	135	120	H
837.96	-5.0	26.4	2.0	0.0	0.0	23.4	46.0	90	120	H
936.69	-1.5	27.0	2.0	0.0	0.0	27.5	46.0	135	200	V

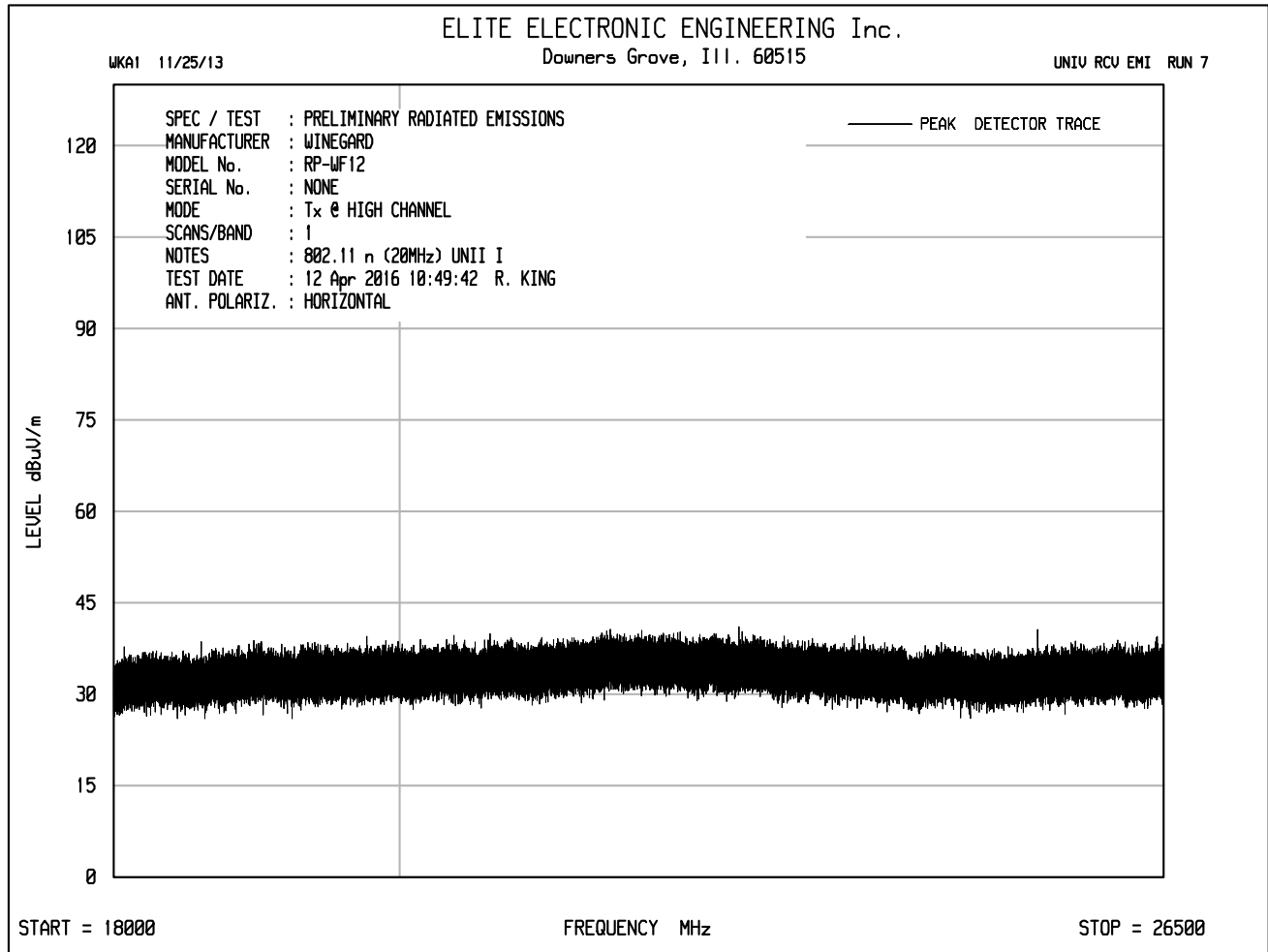
pg ____ of ____ tested by: _____
R. KING

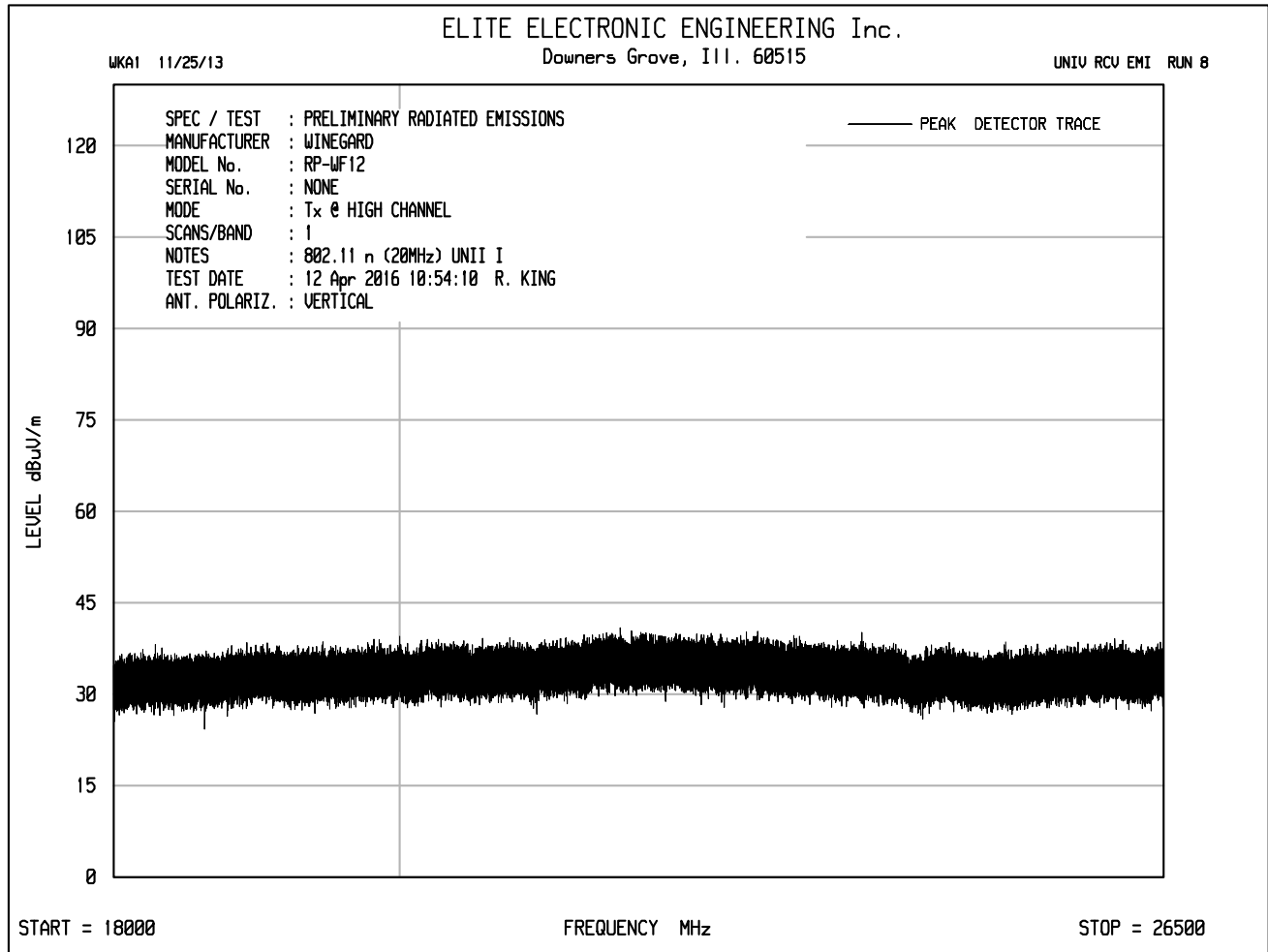


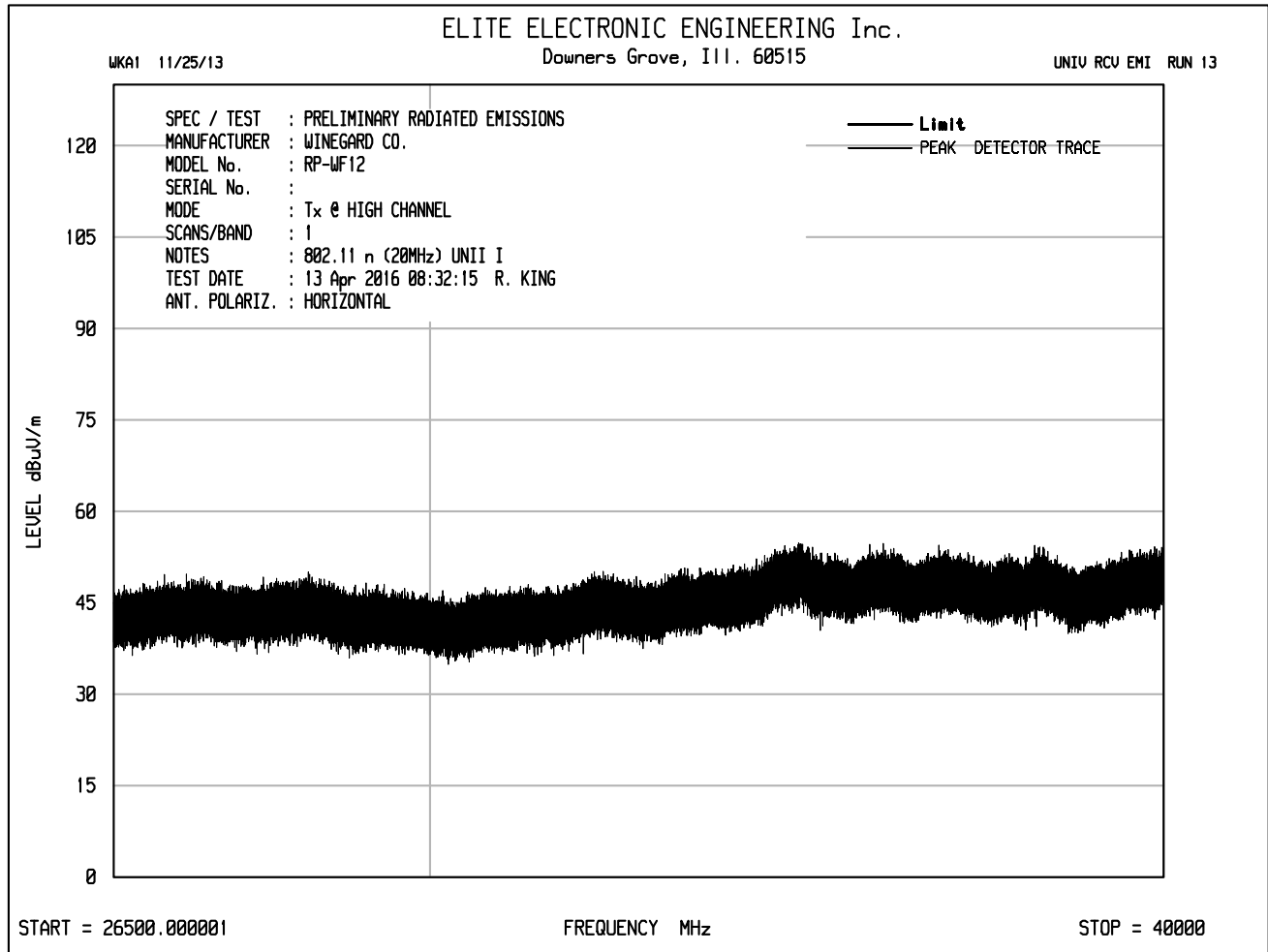


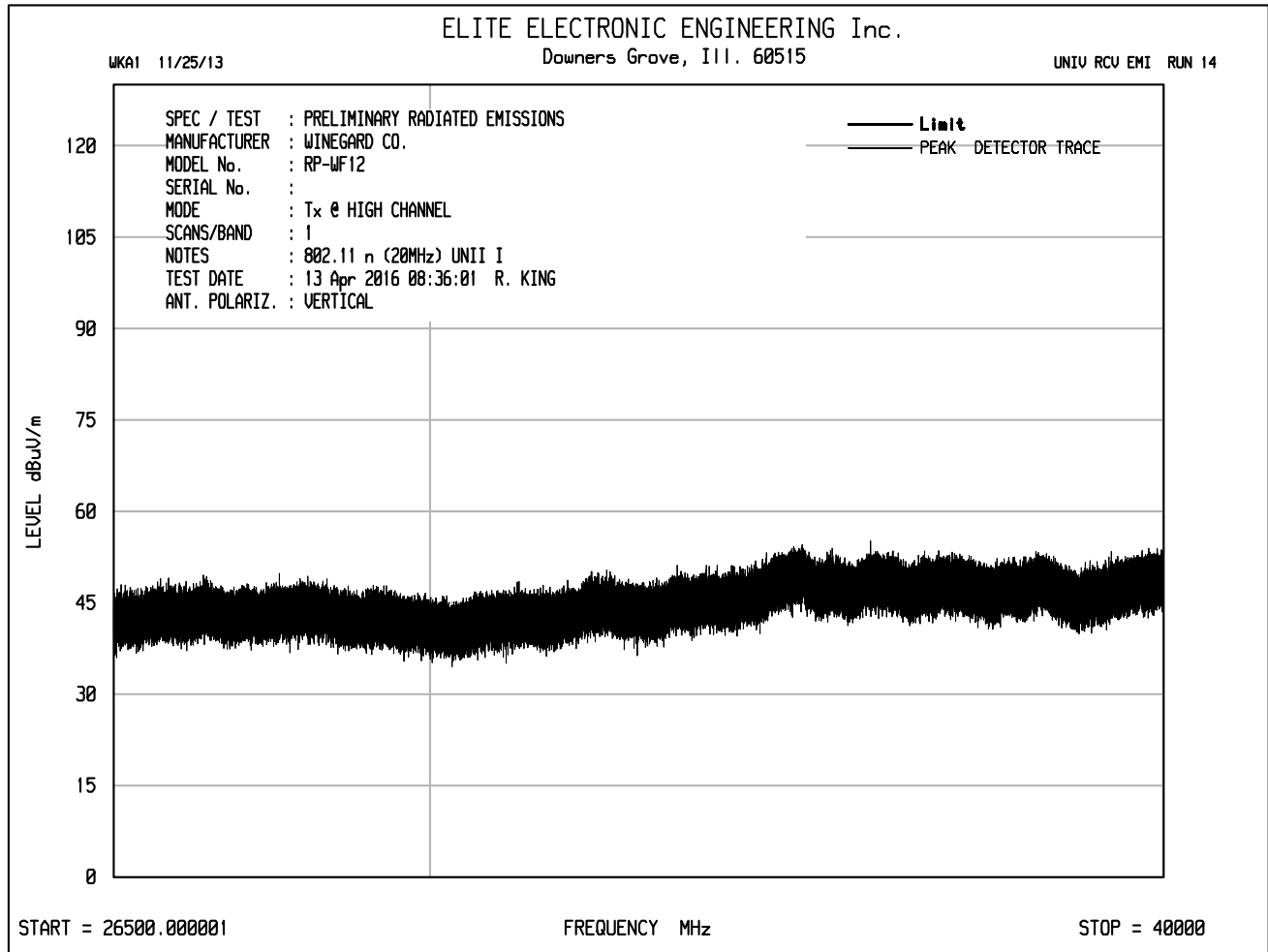


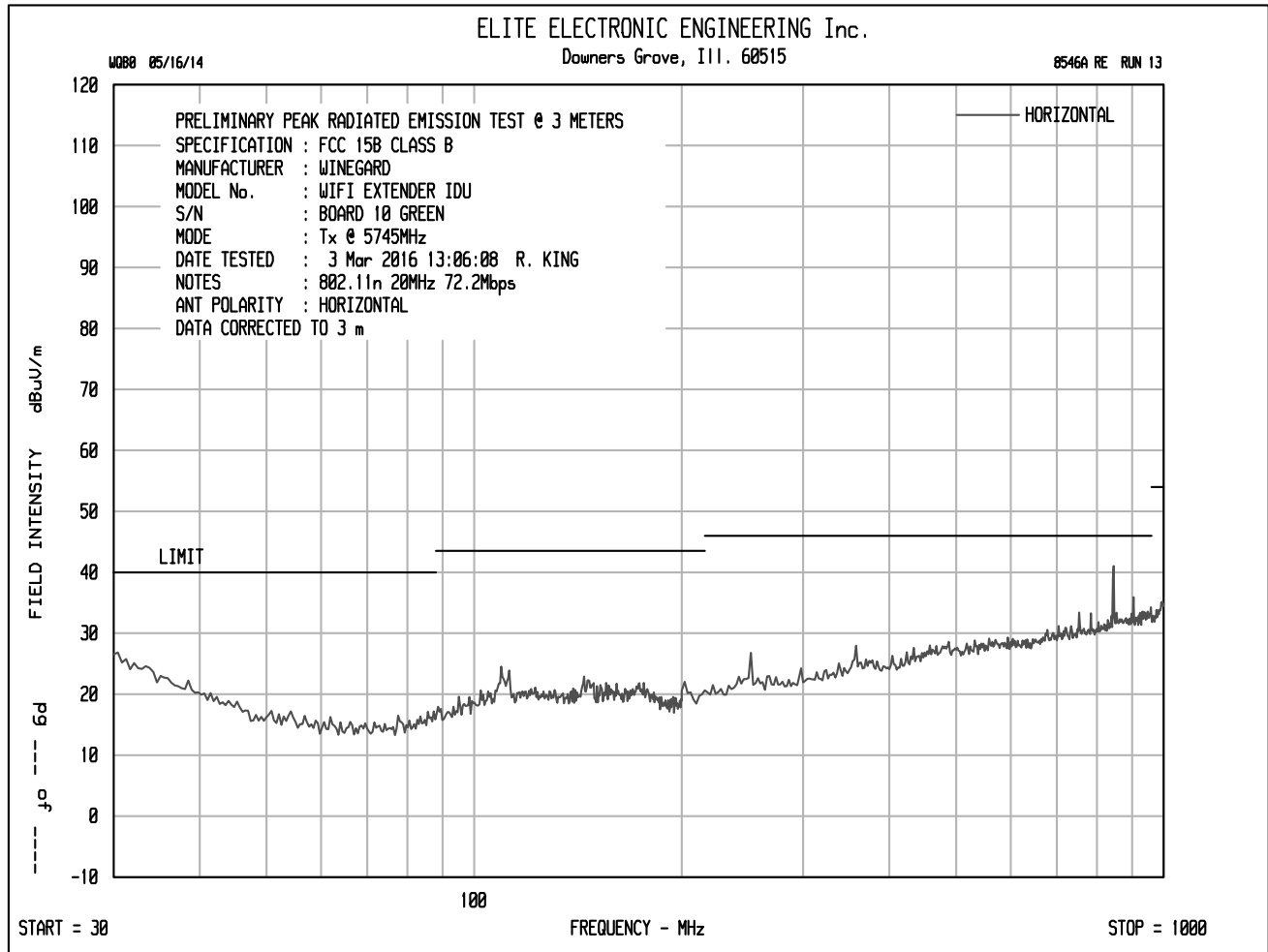


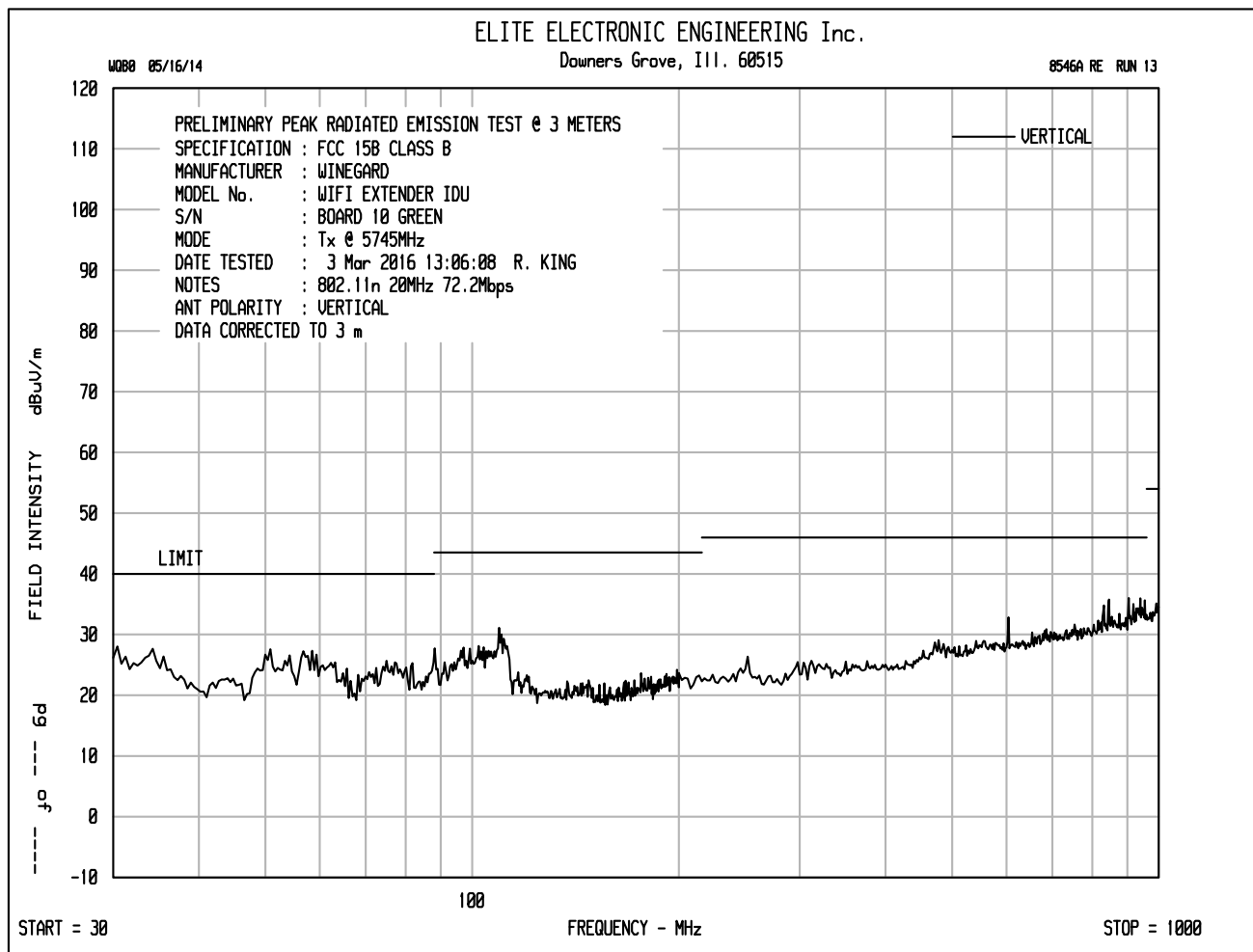


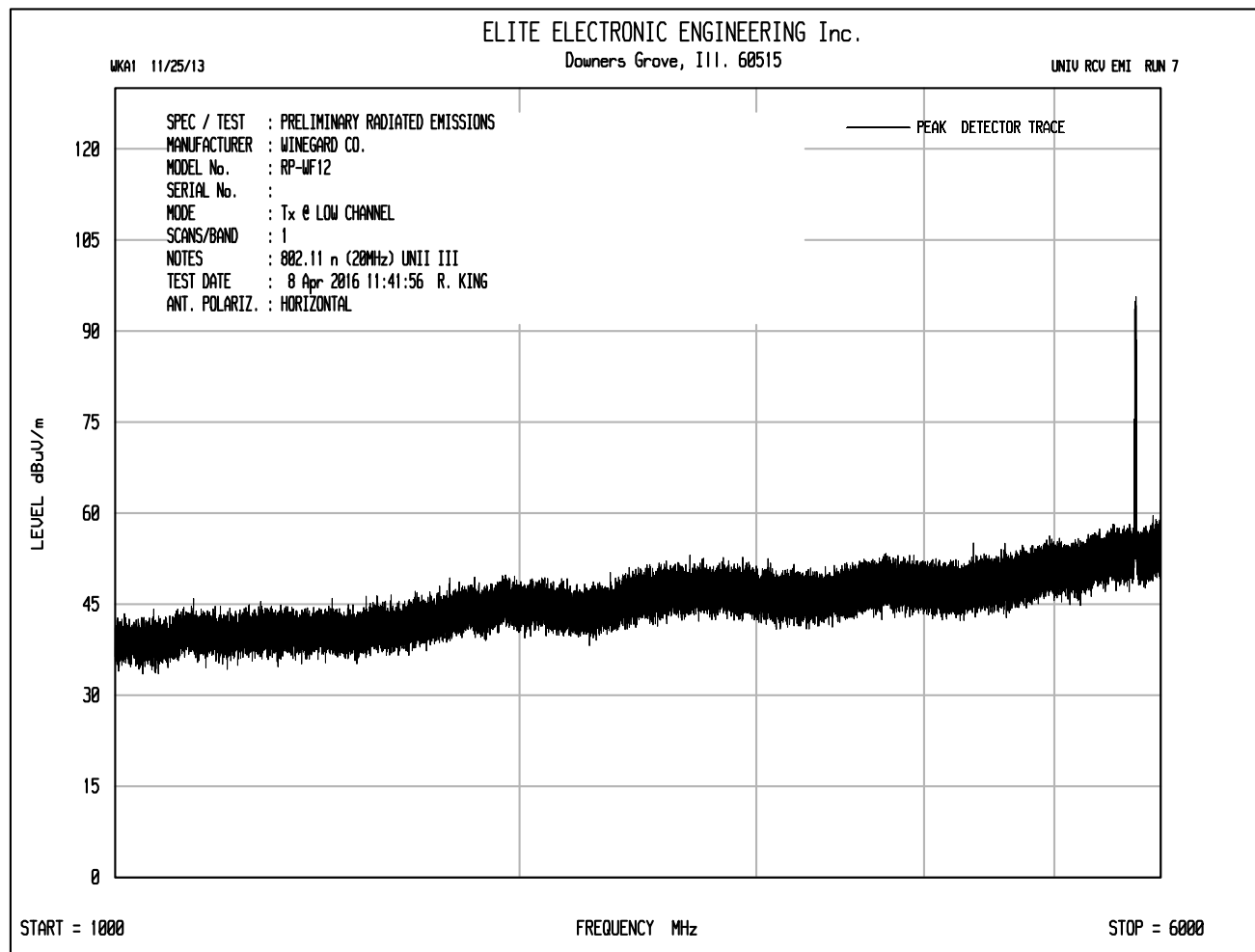


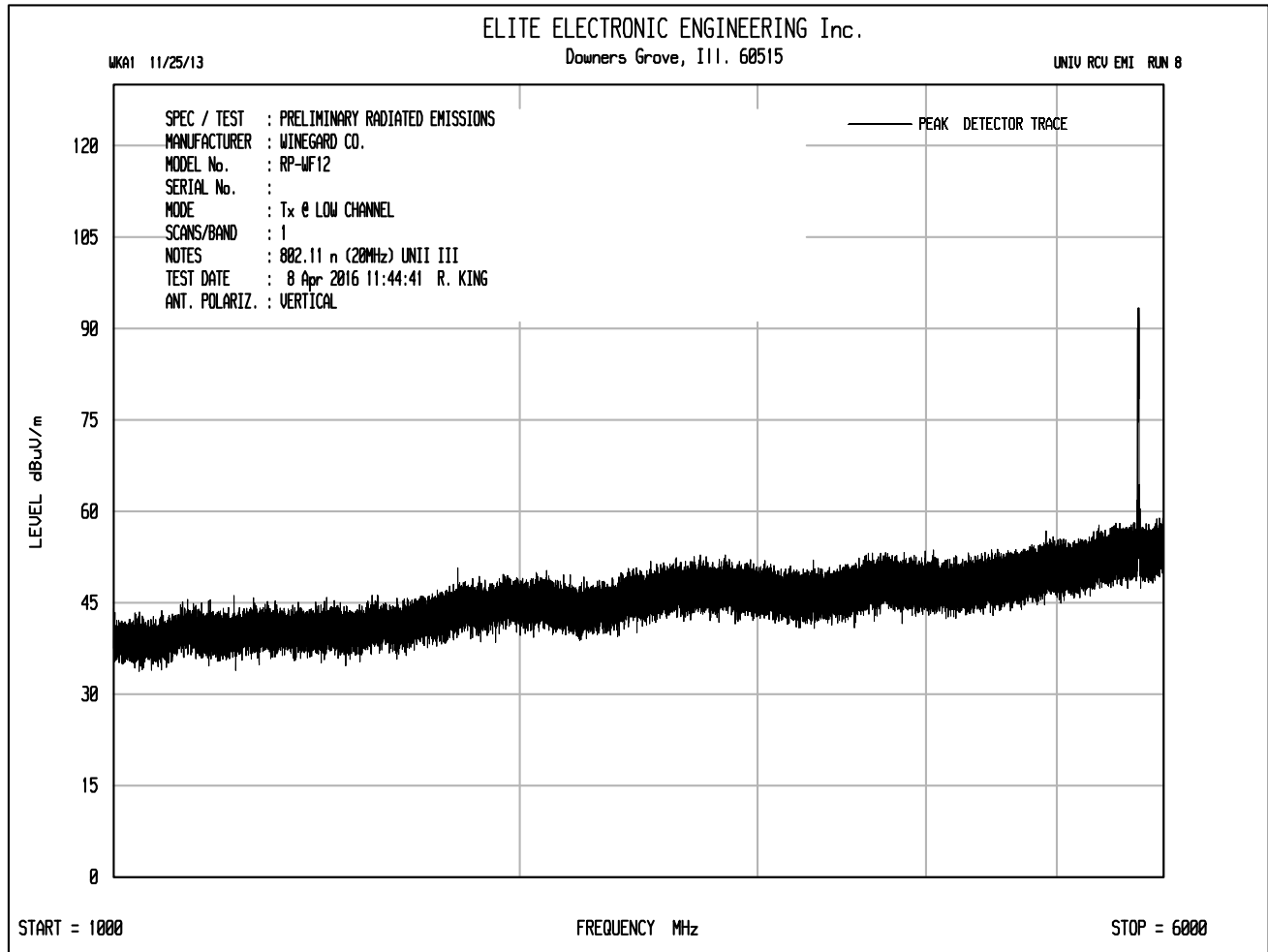


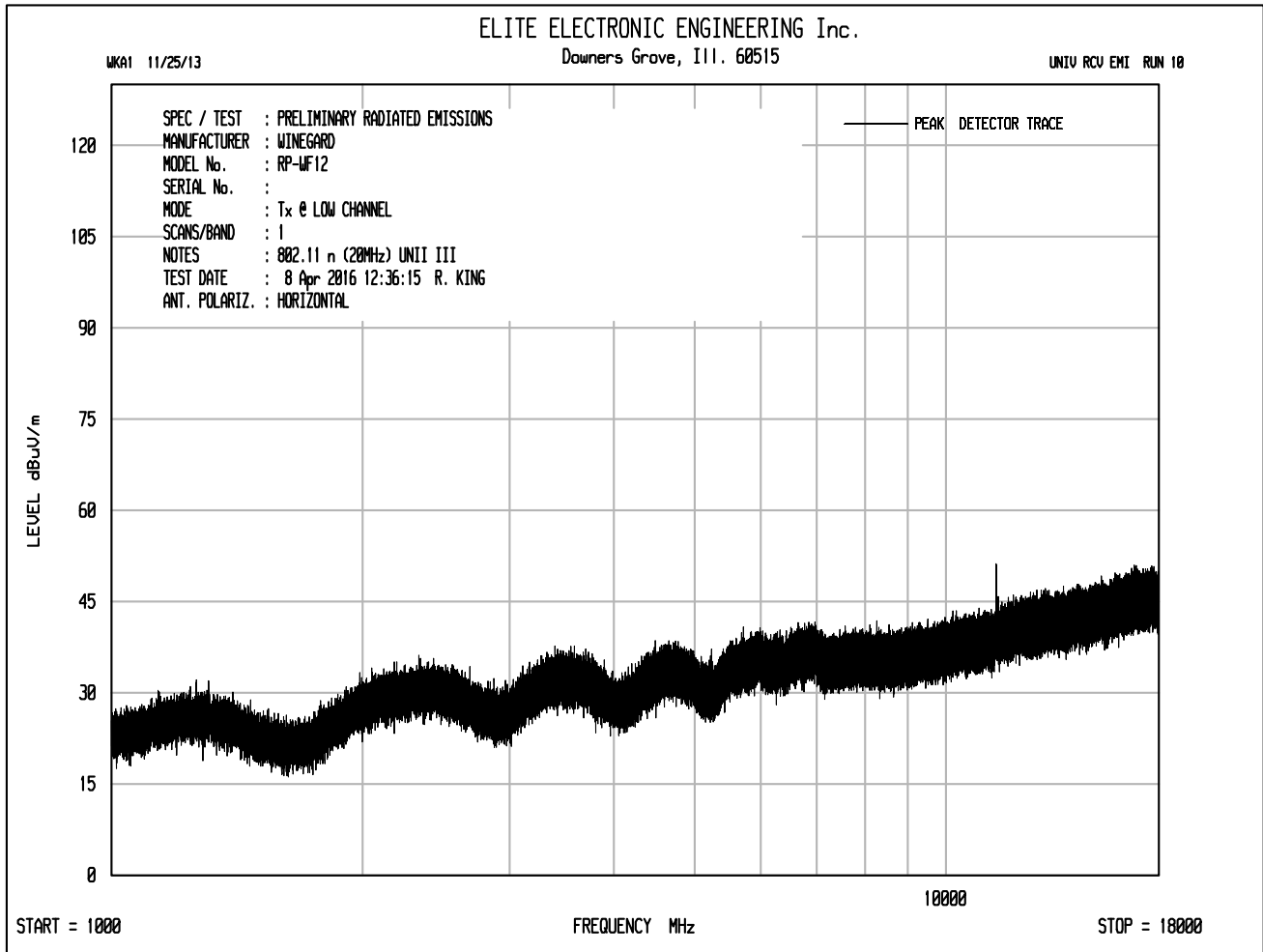


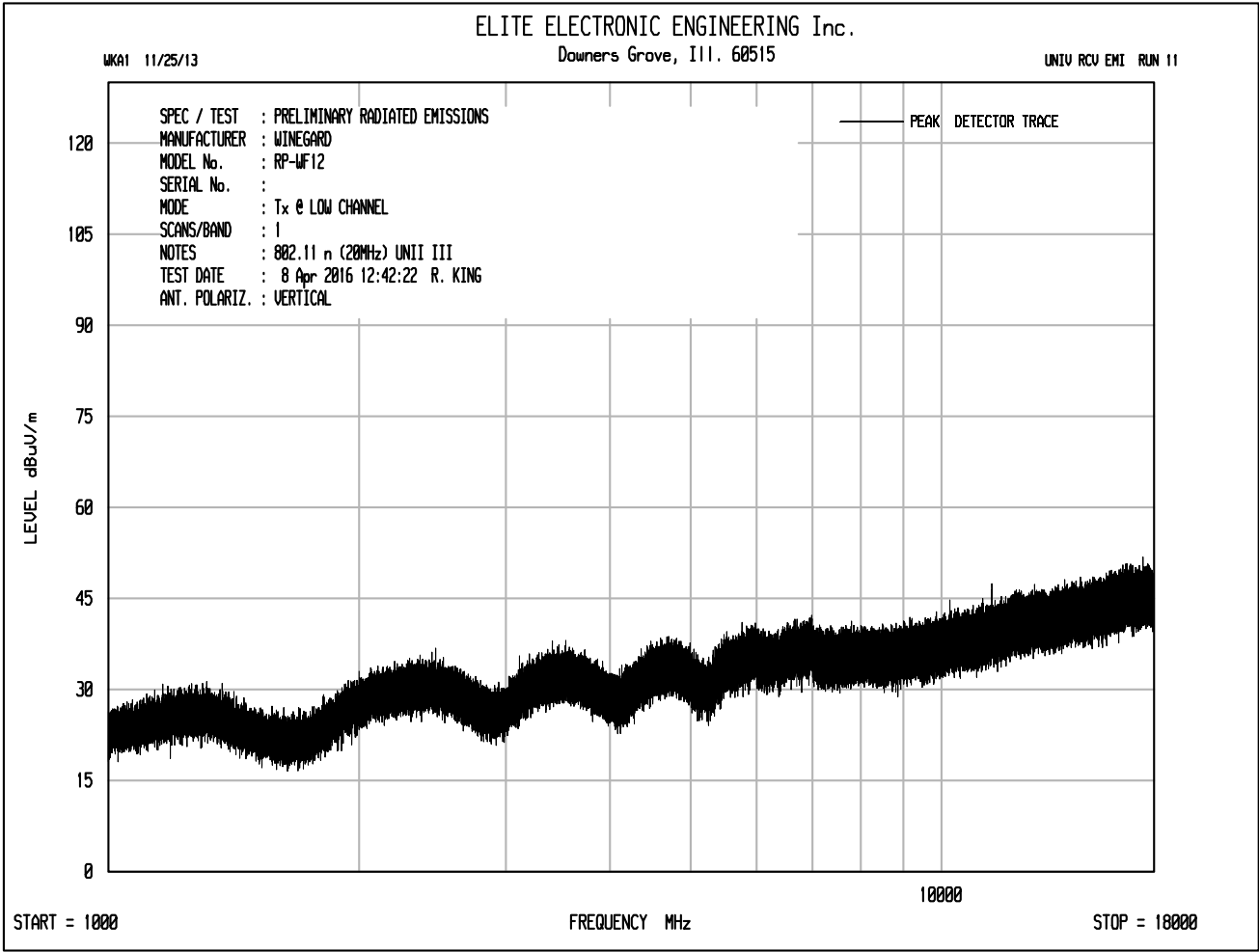


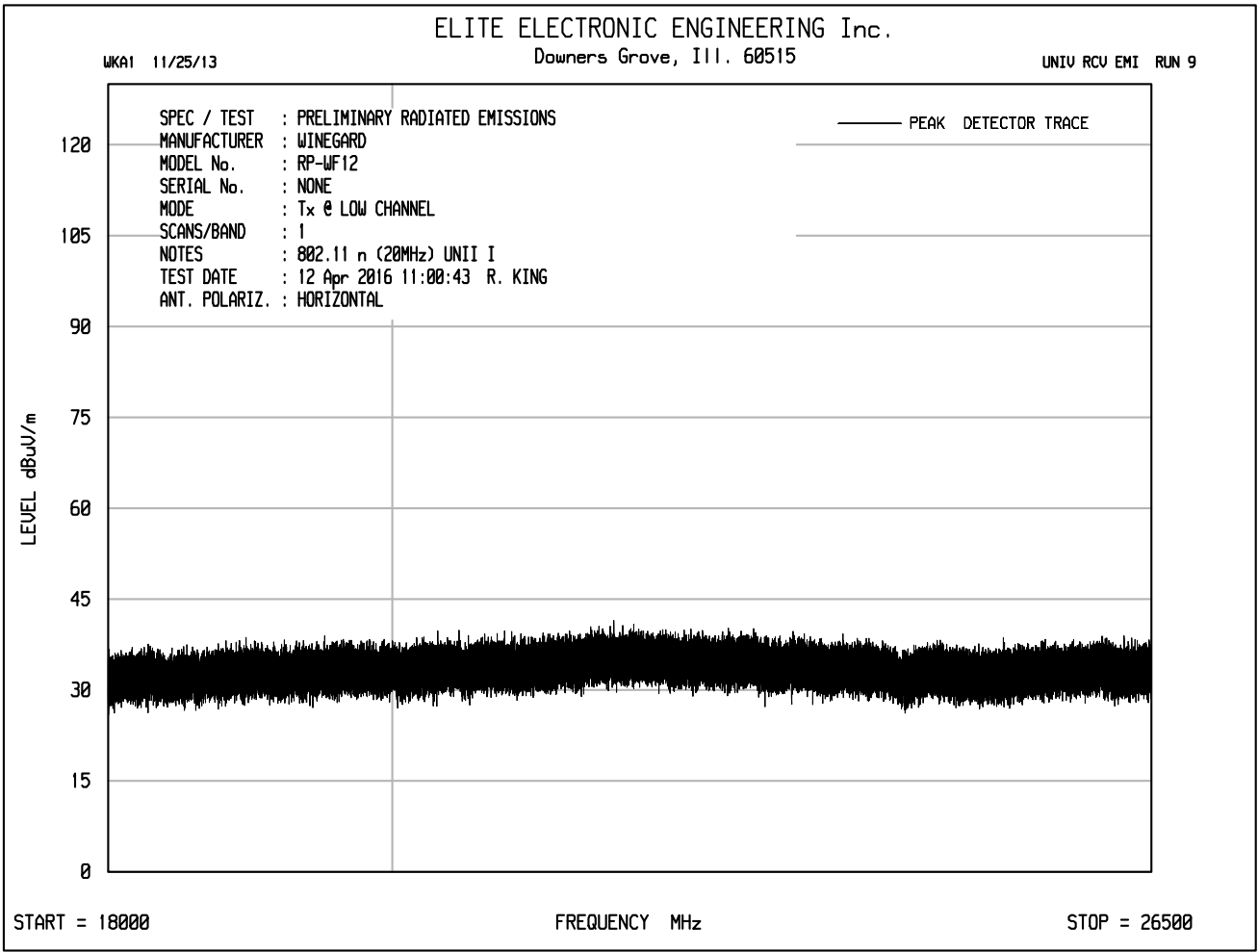


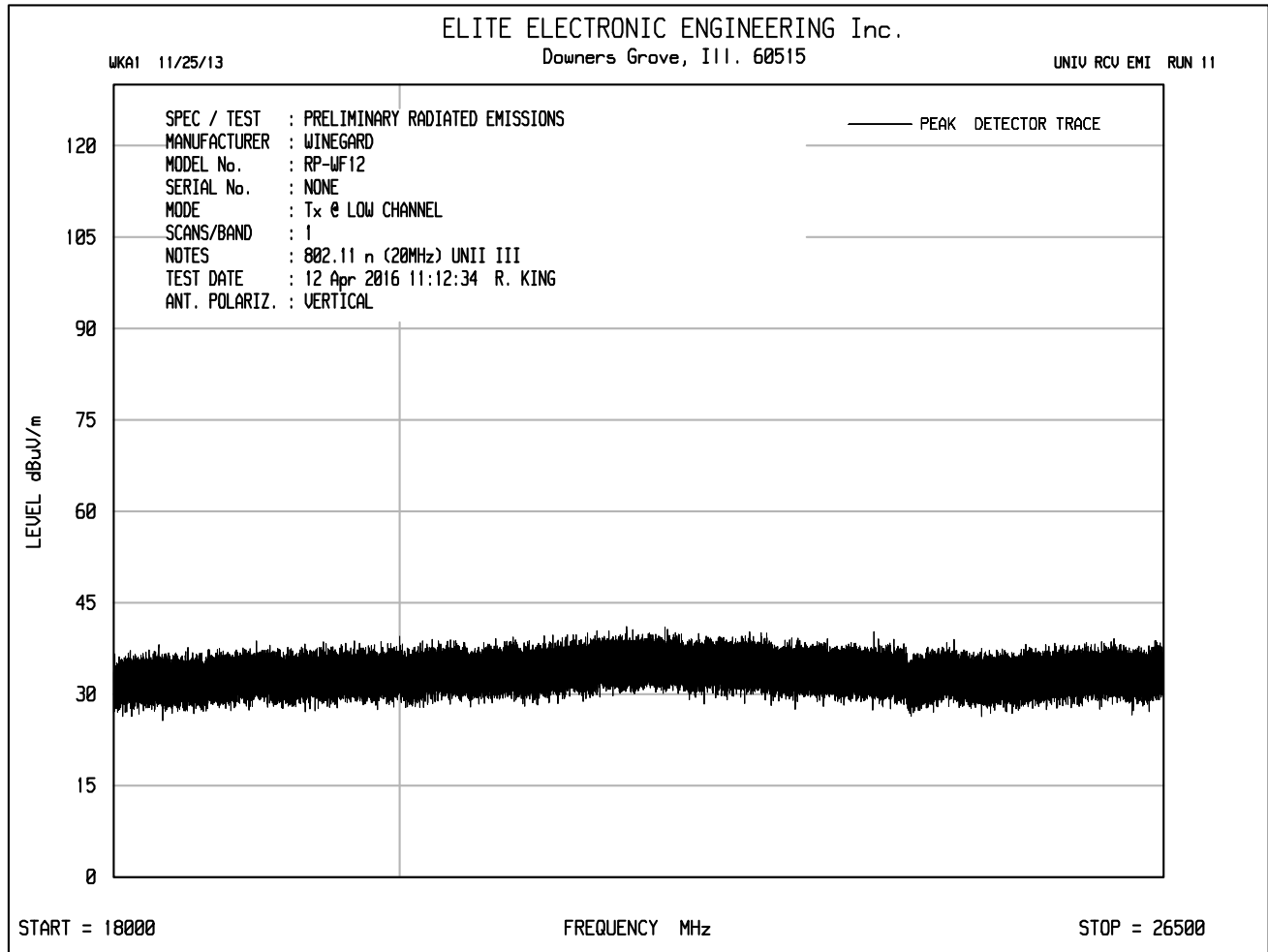


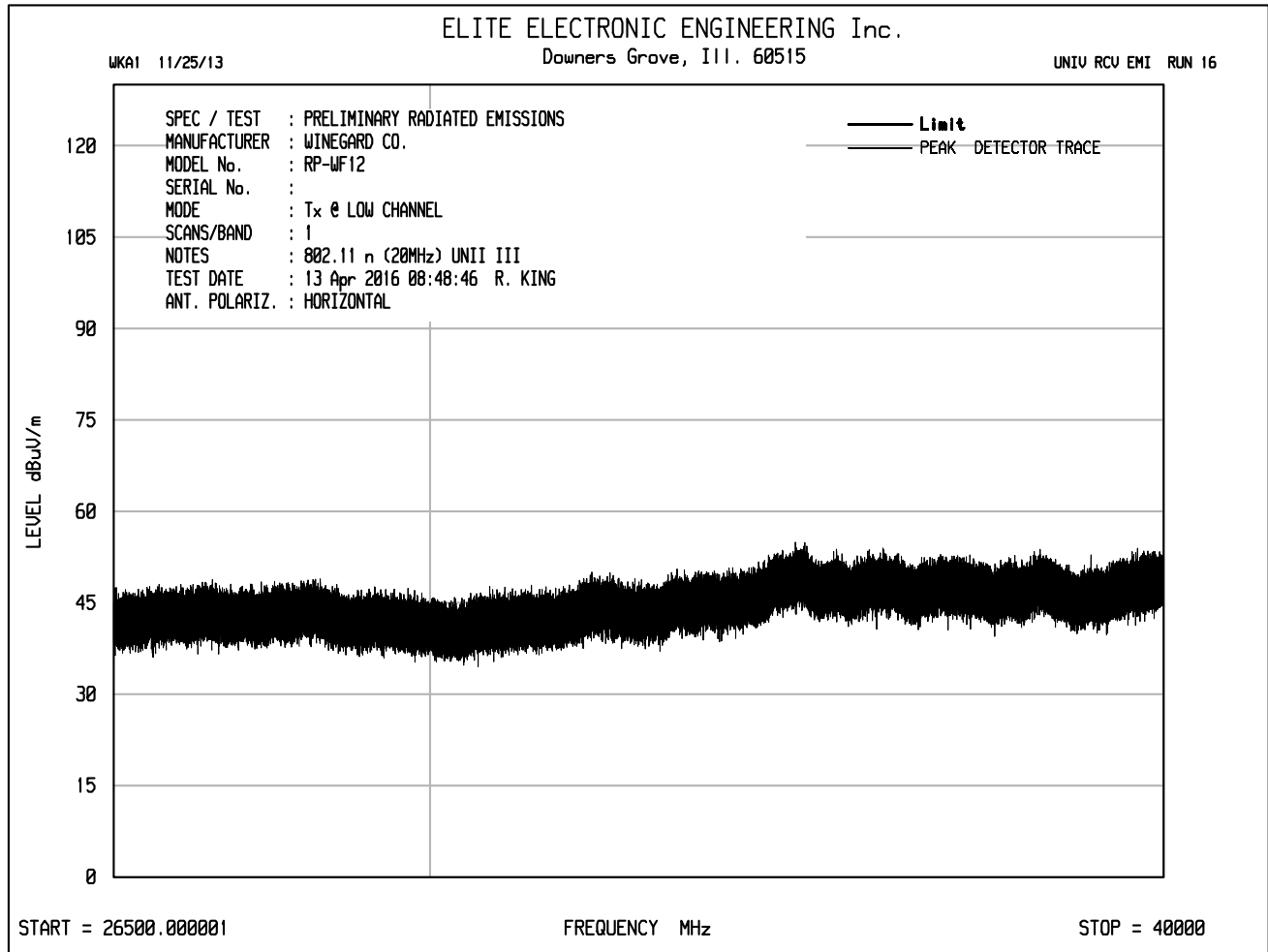


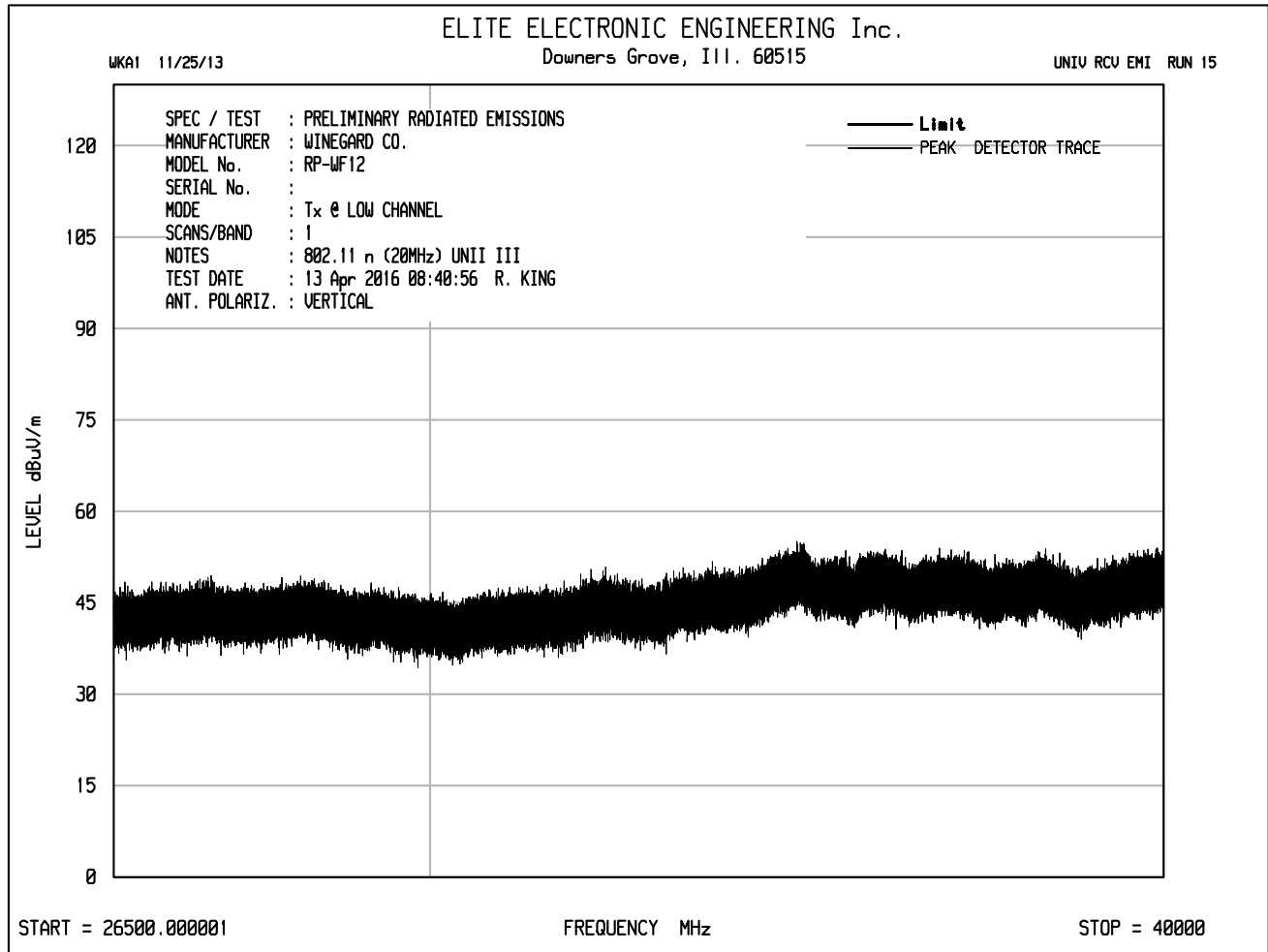


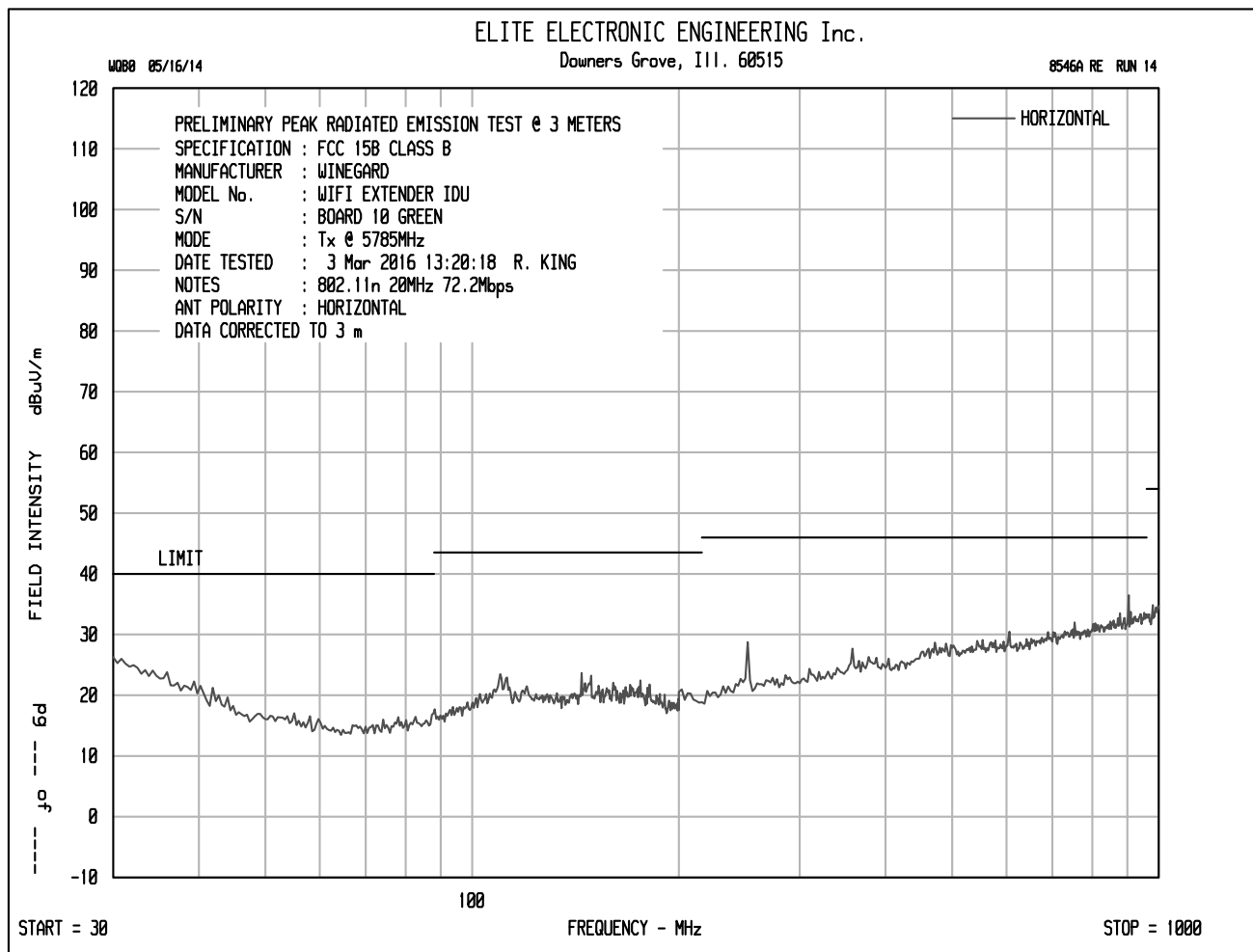


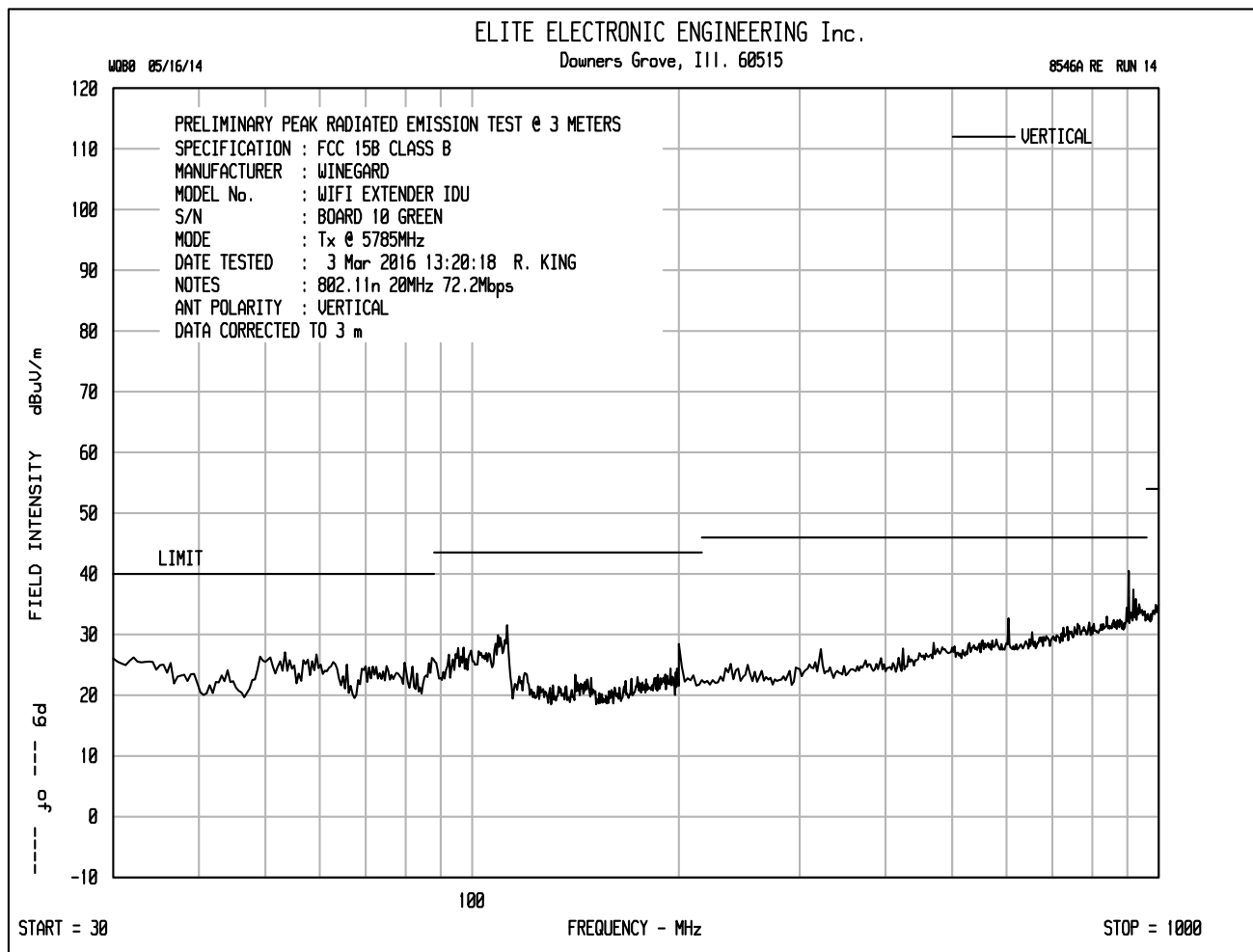


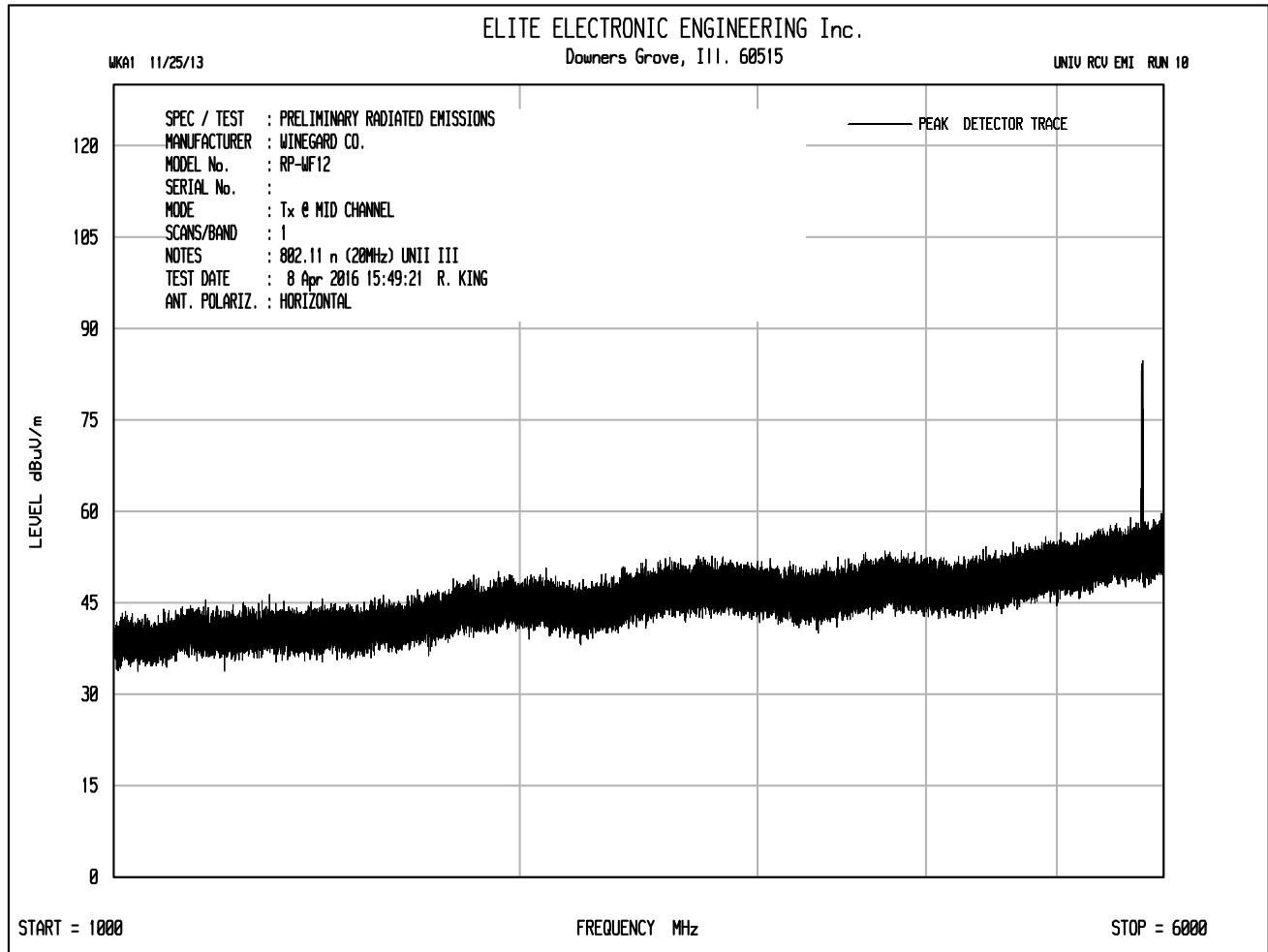


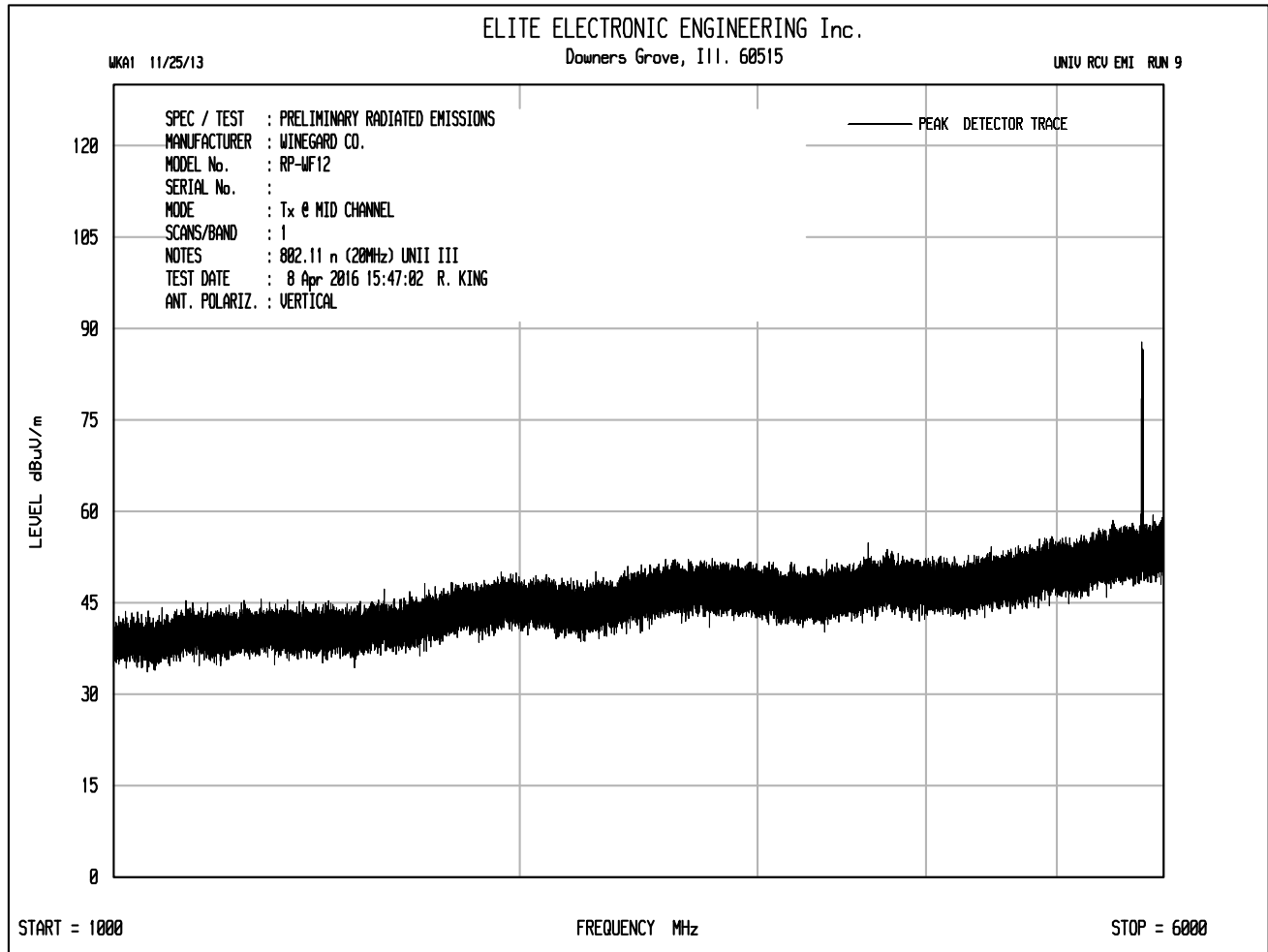


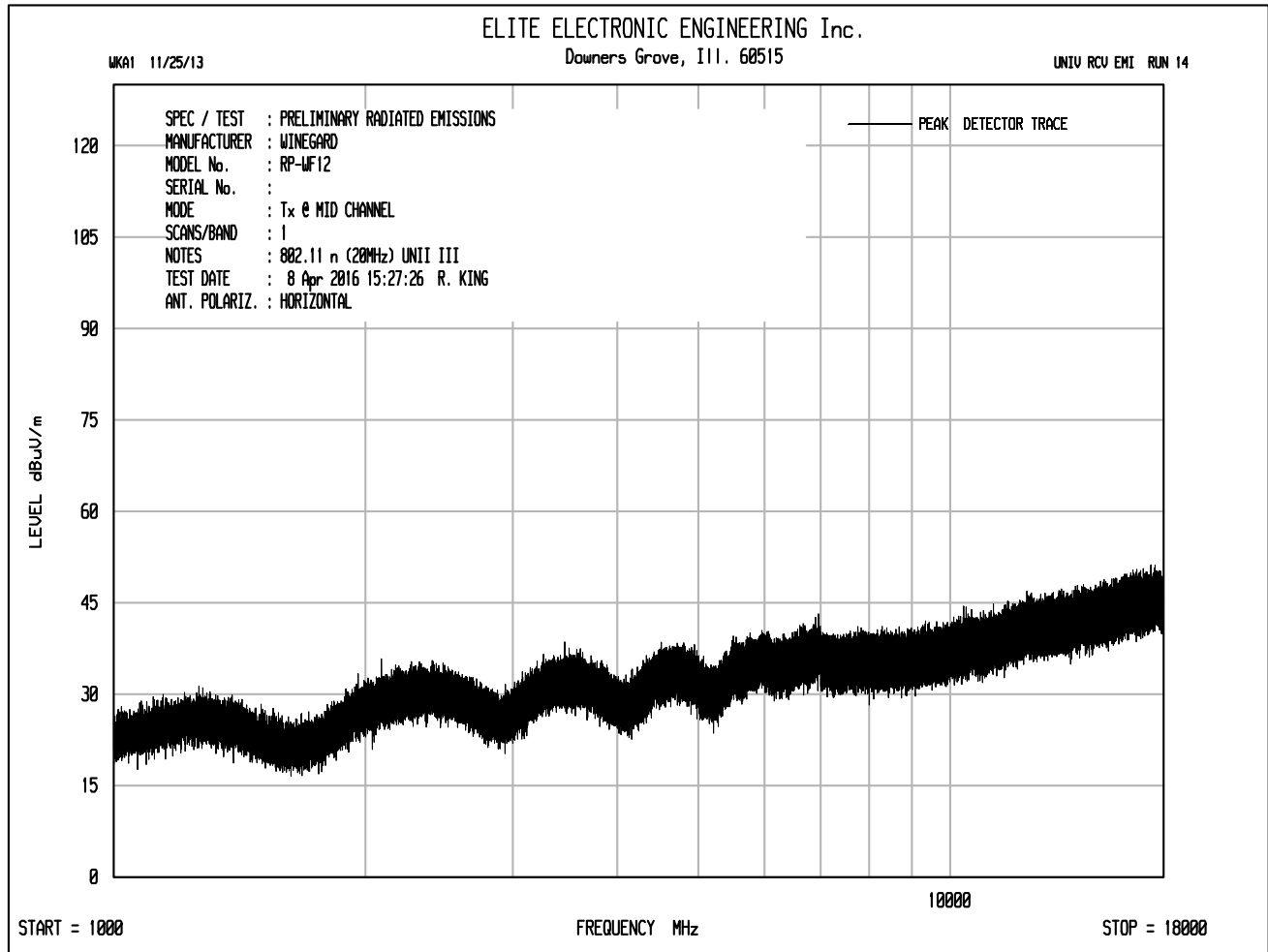


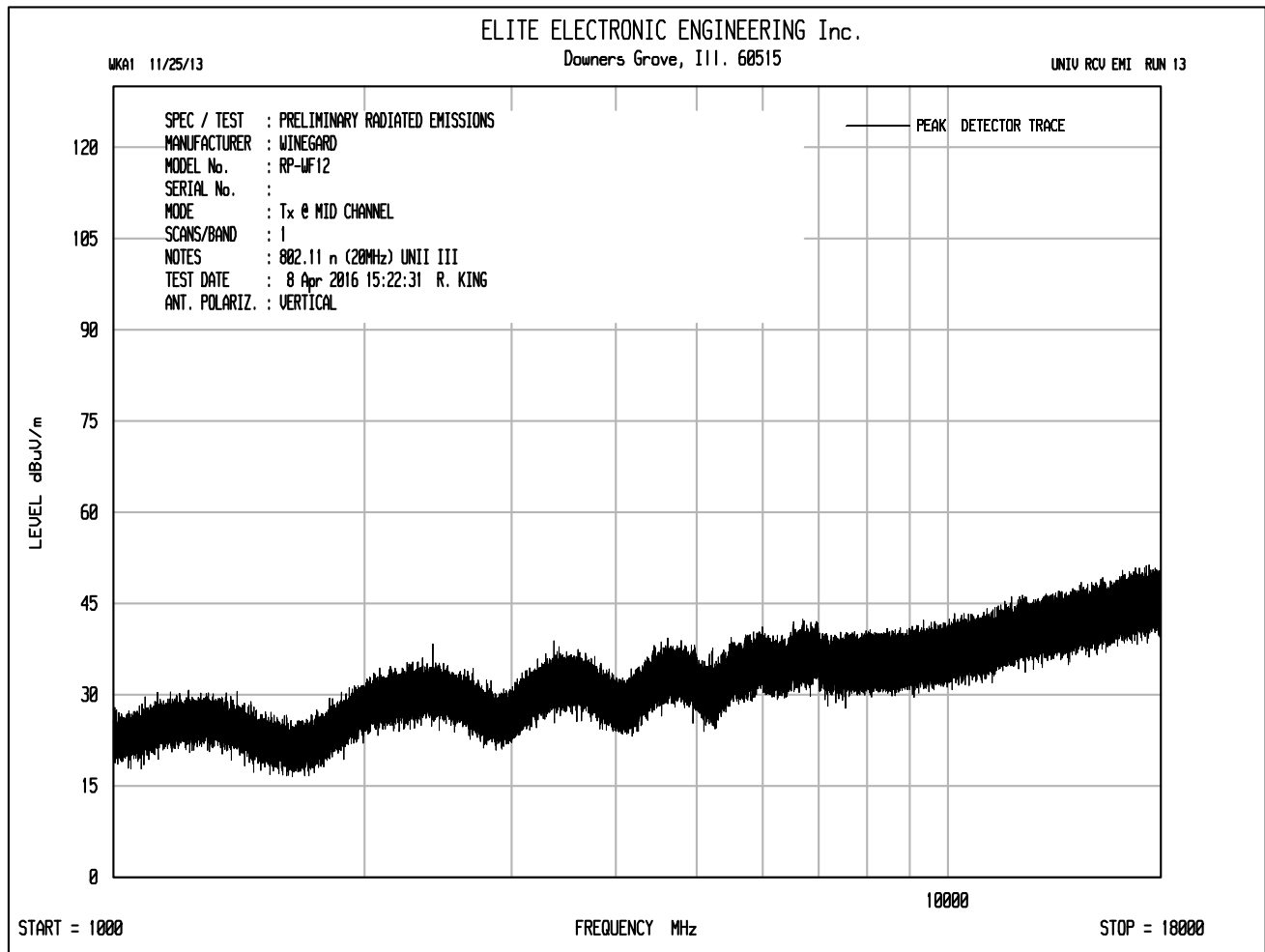


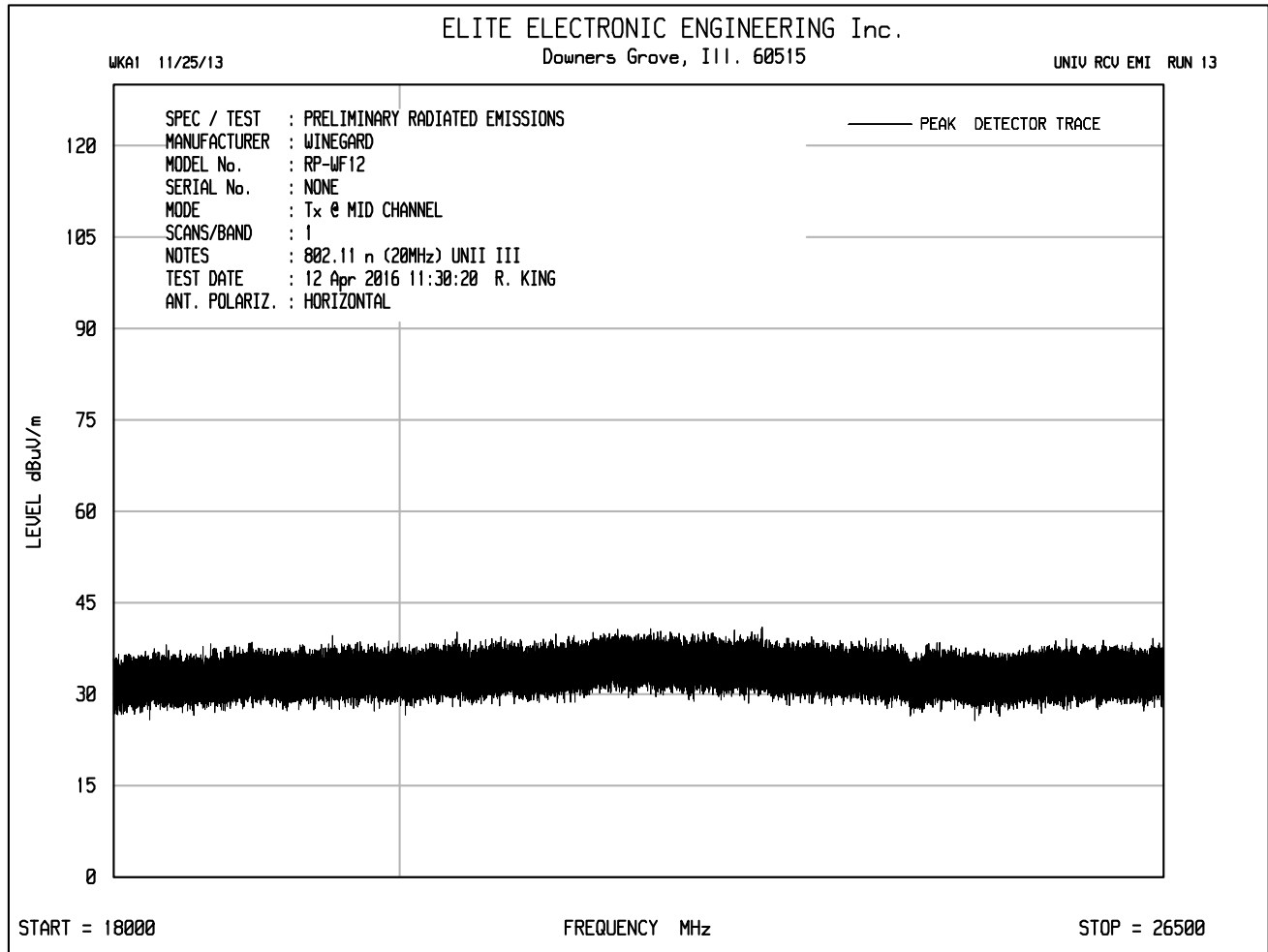


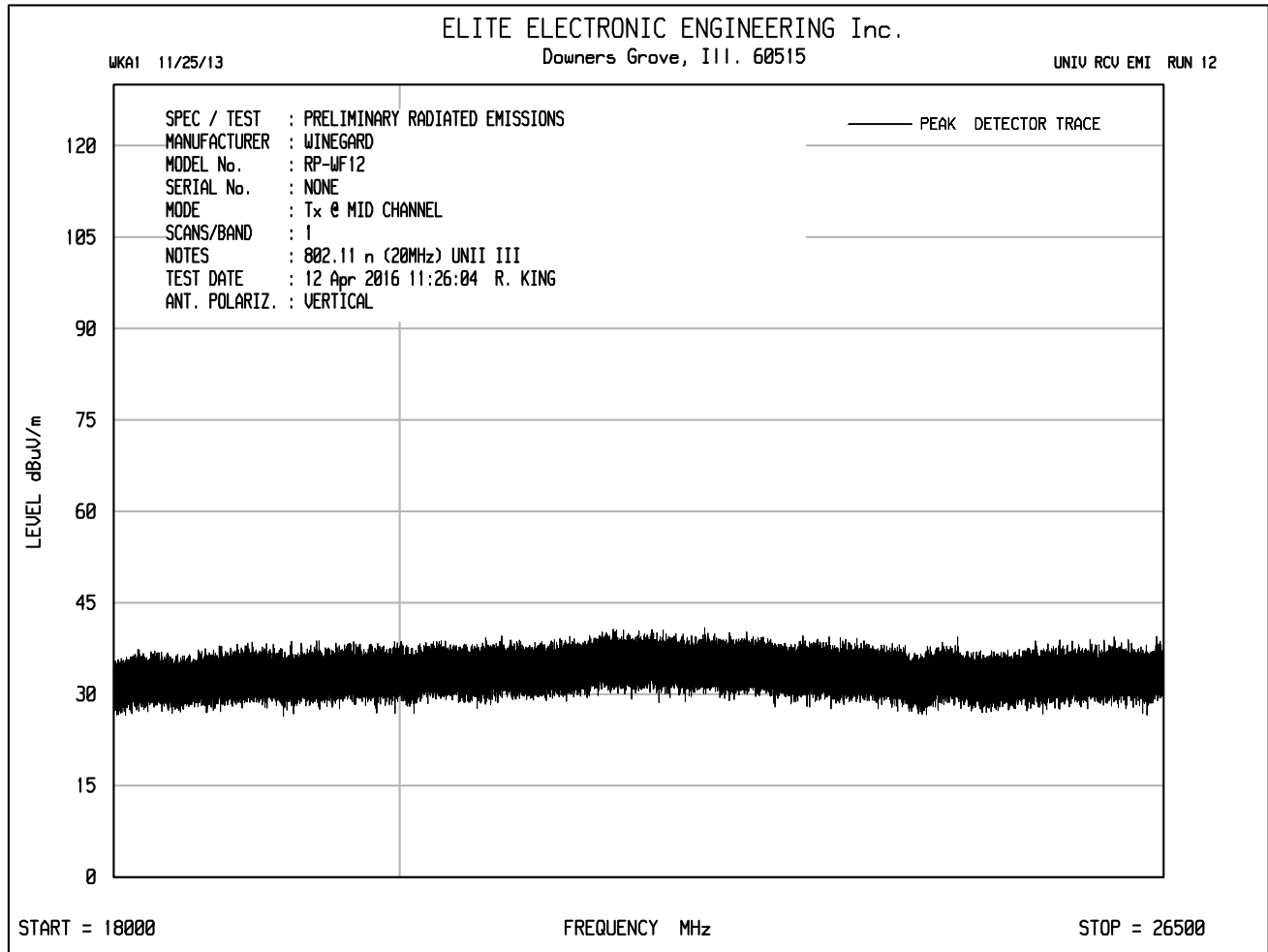


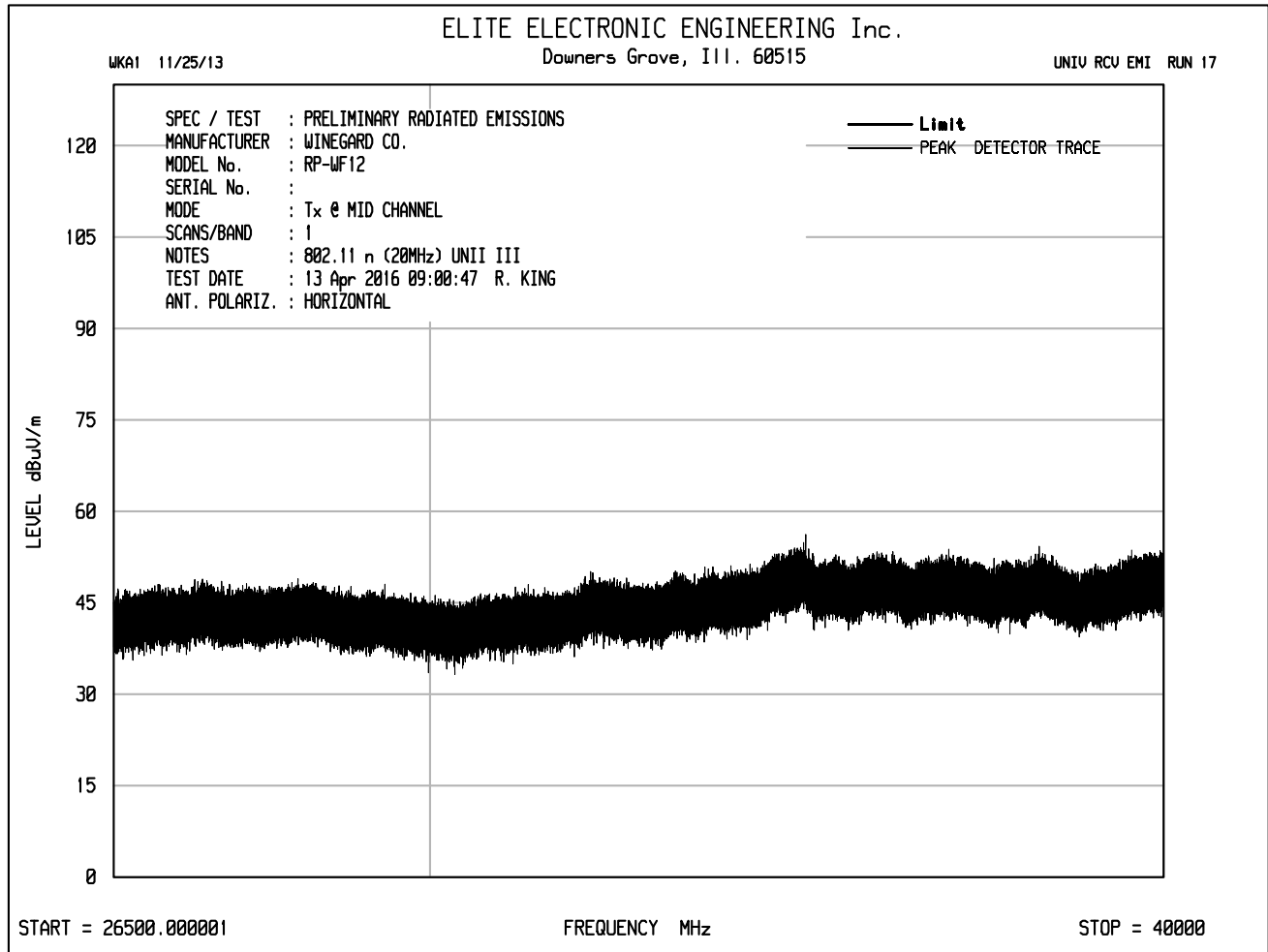


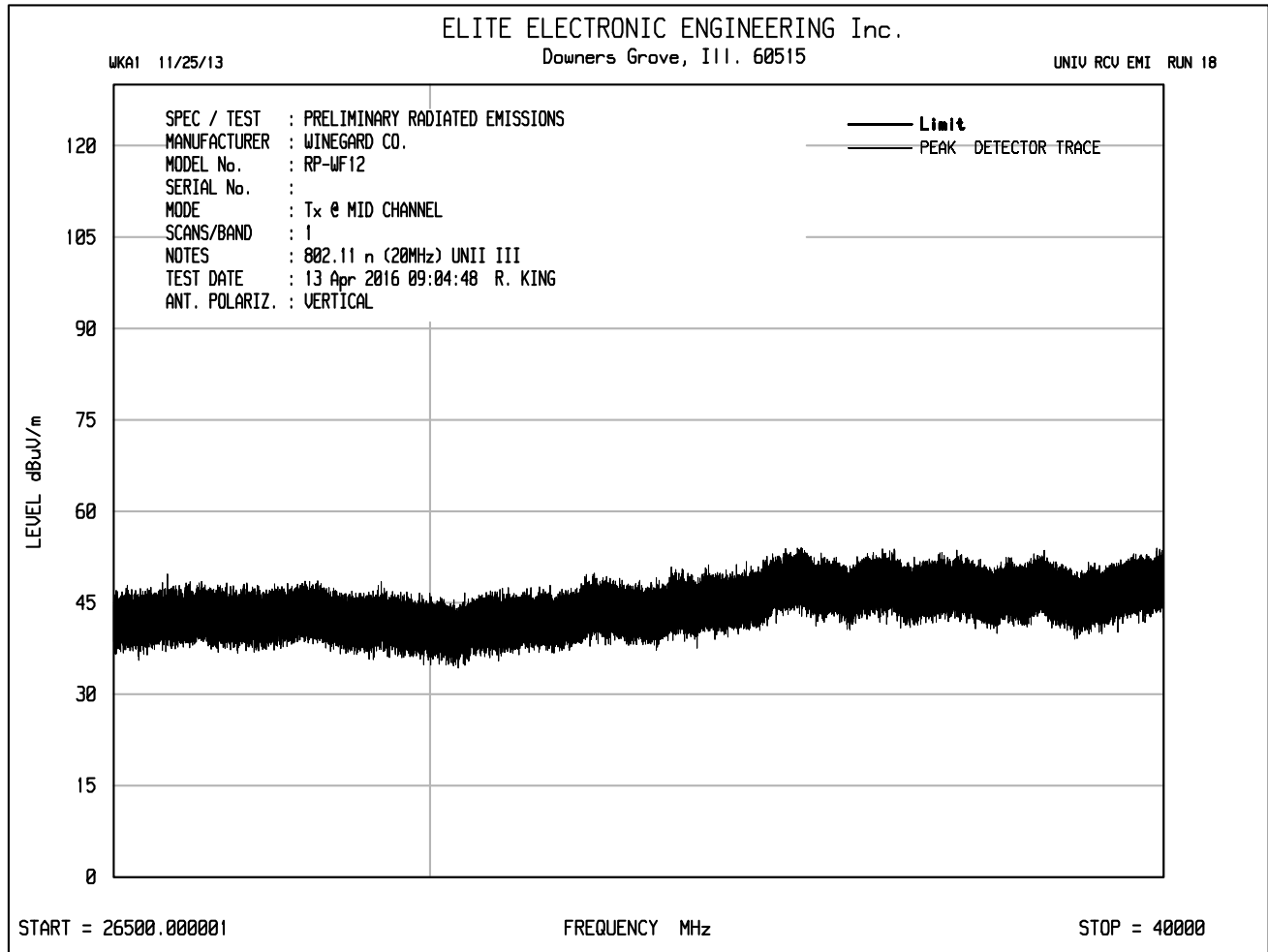


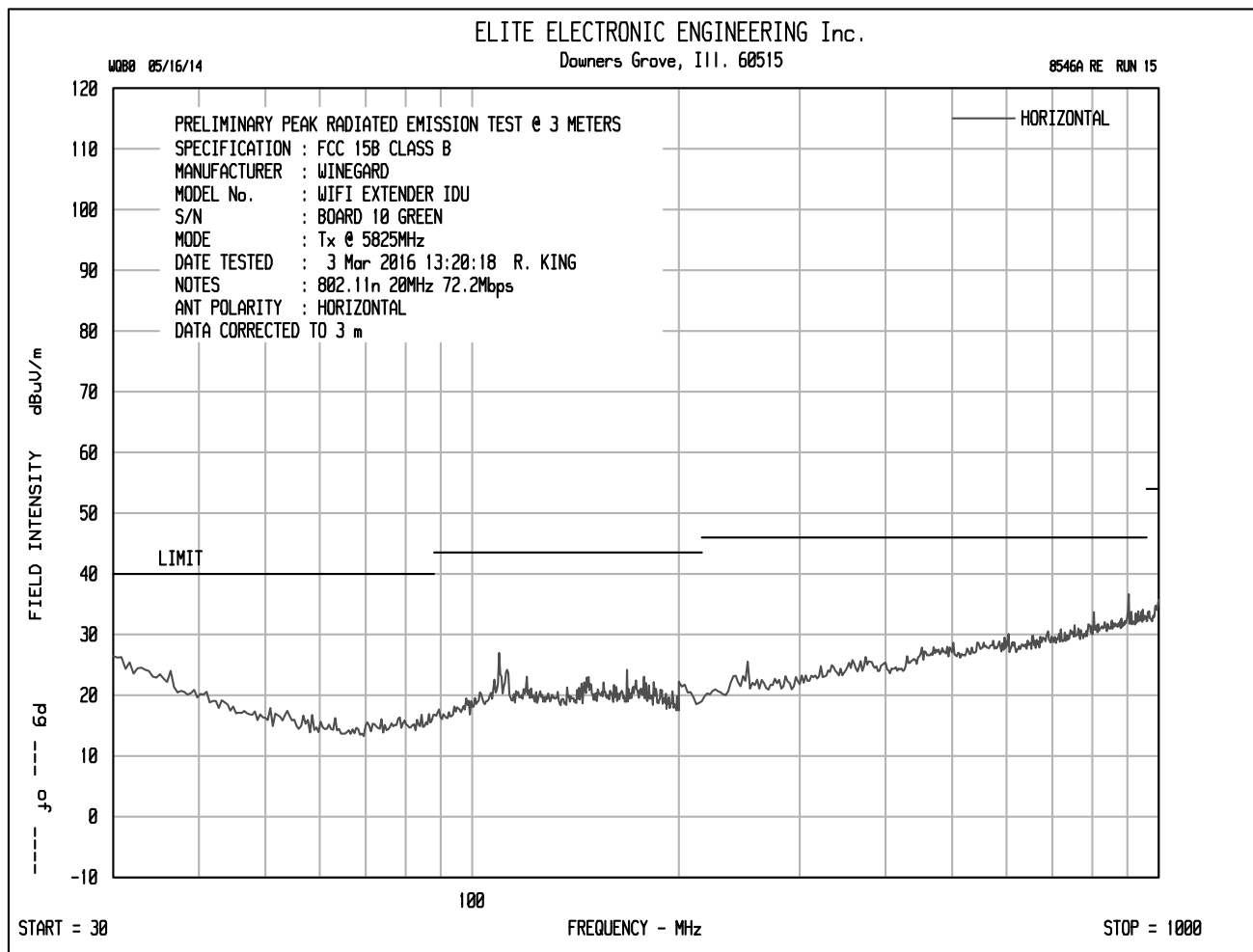


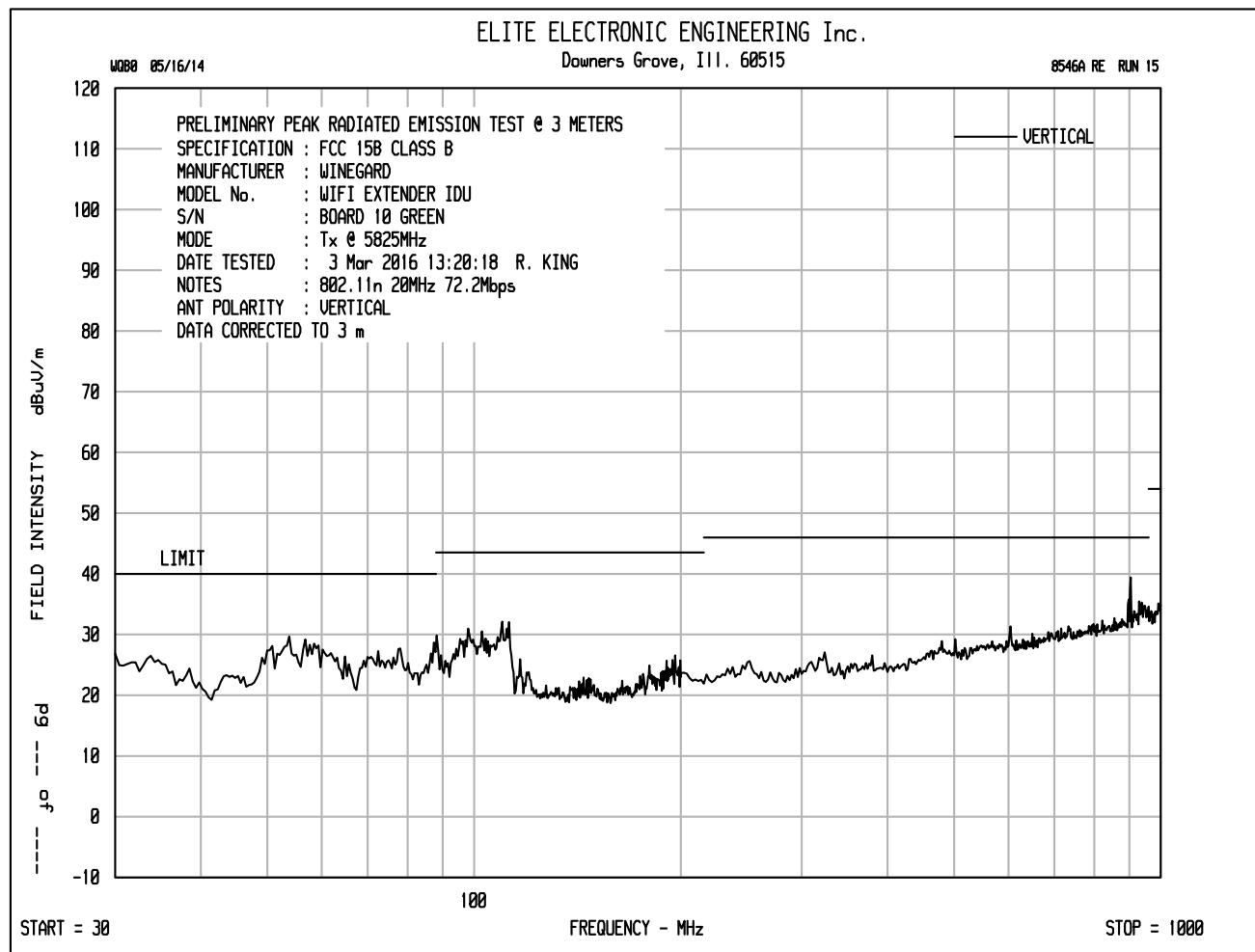


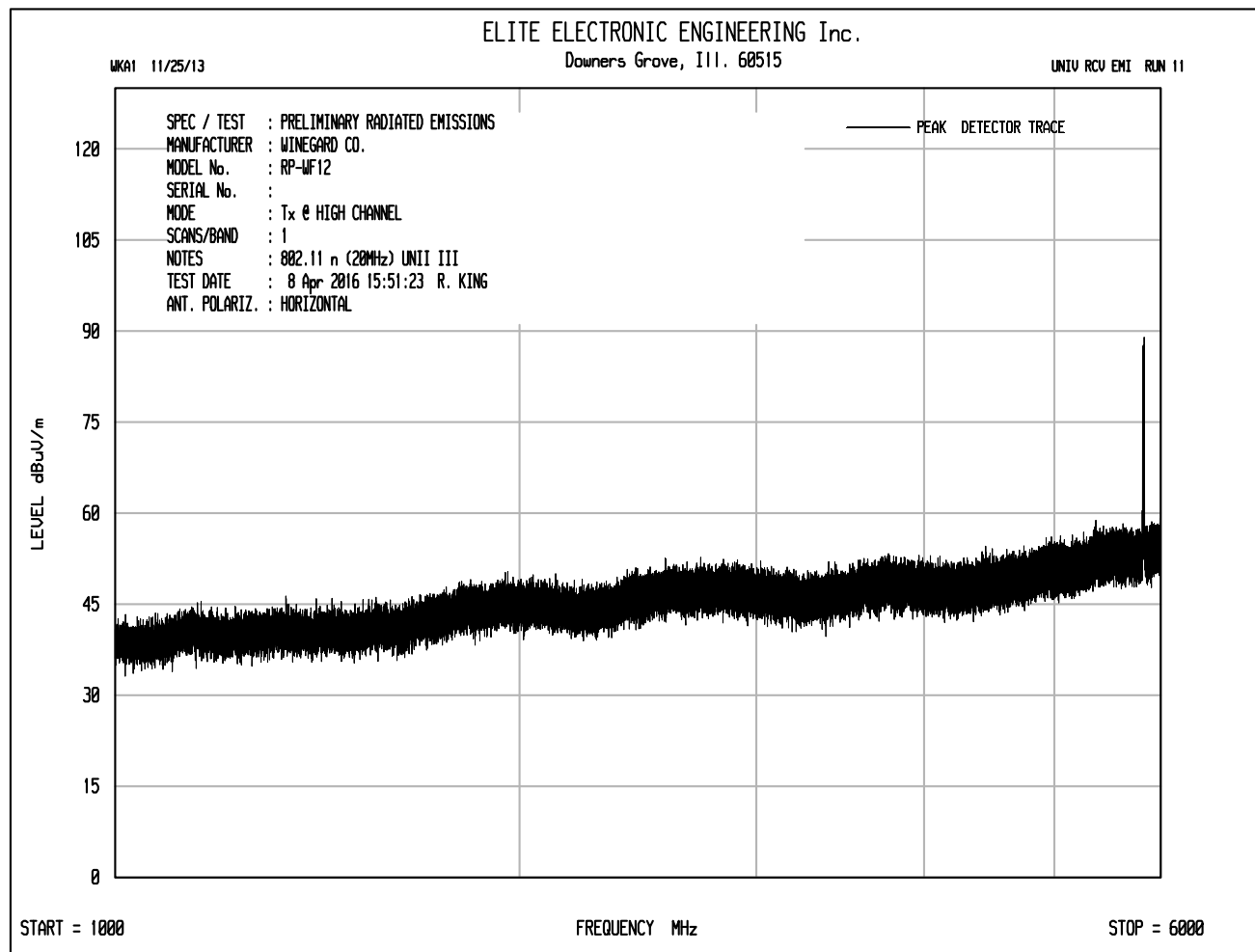


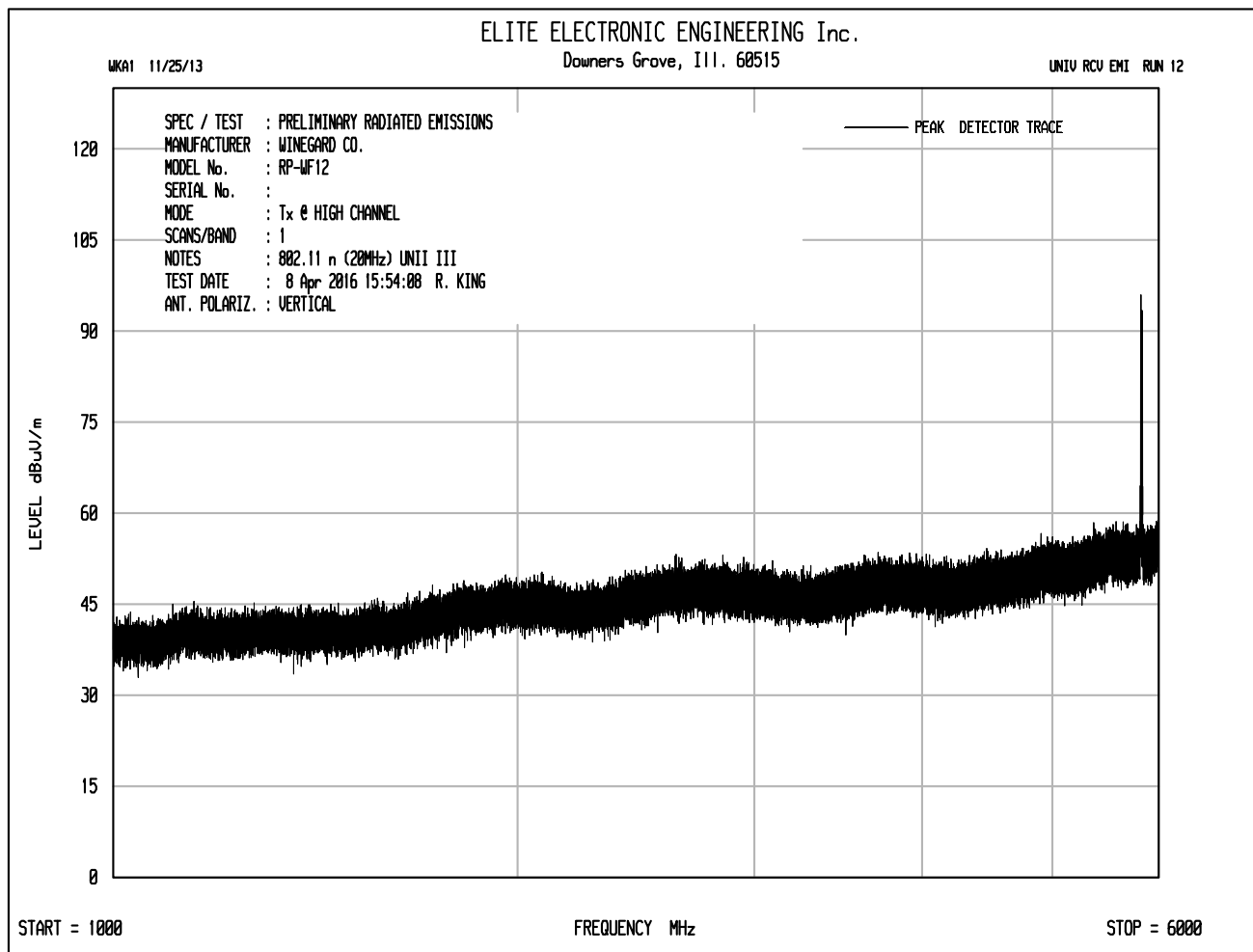


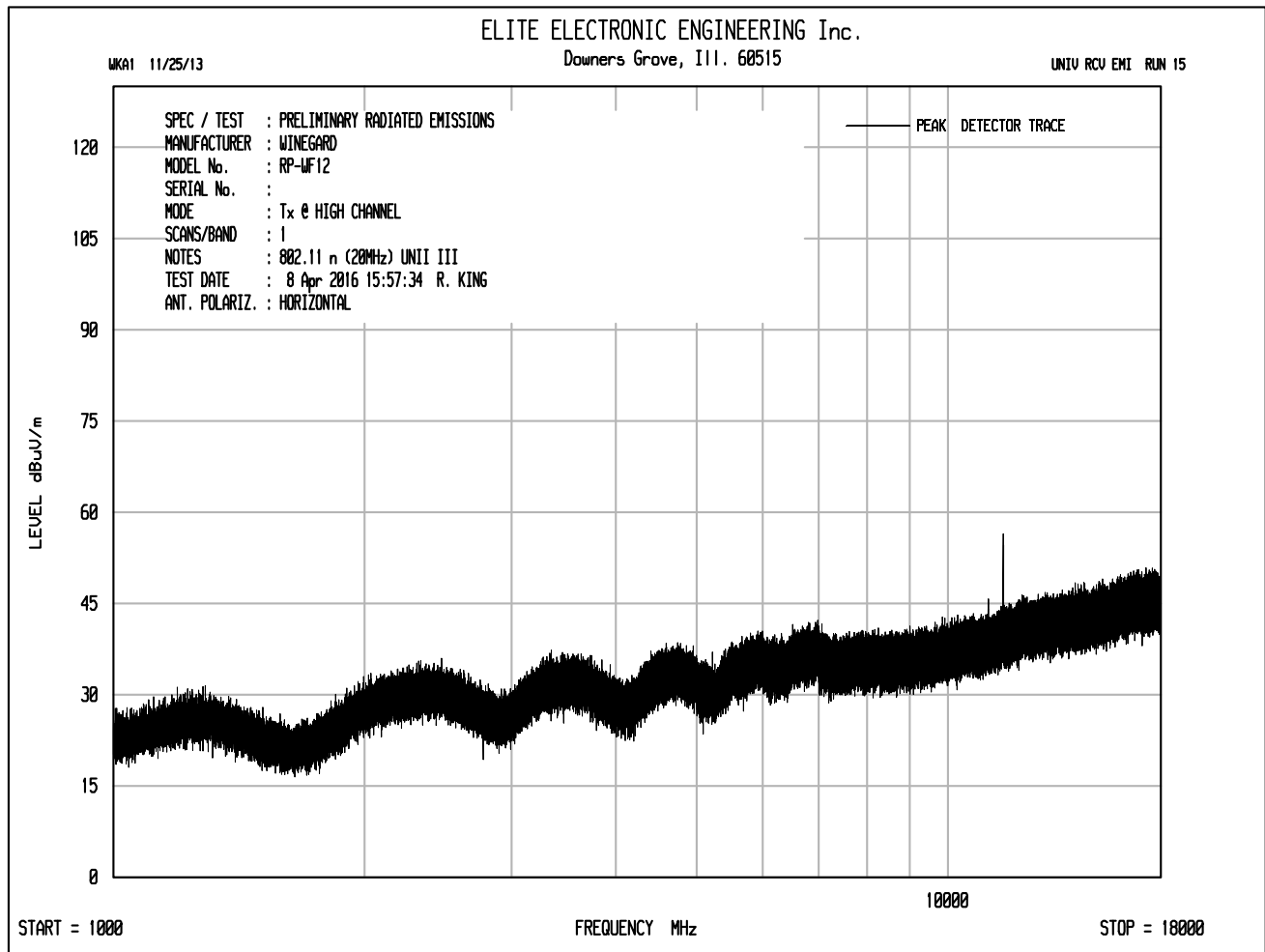


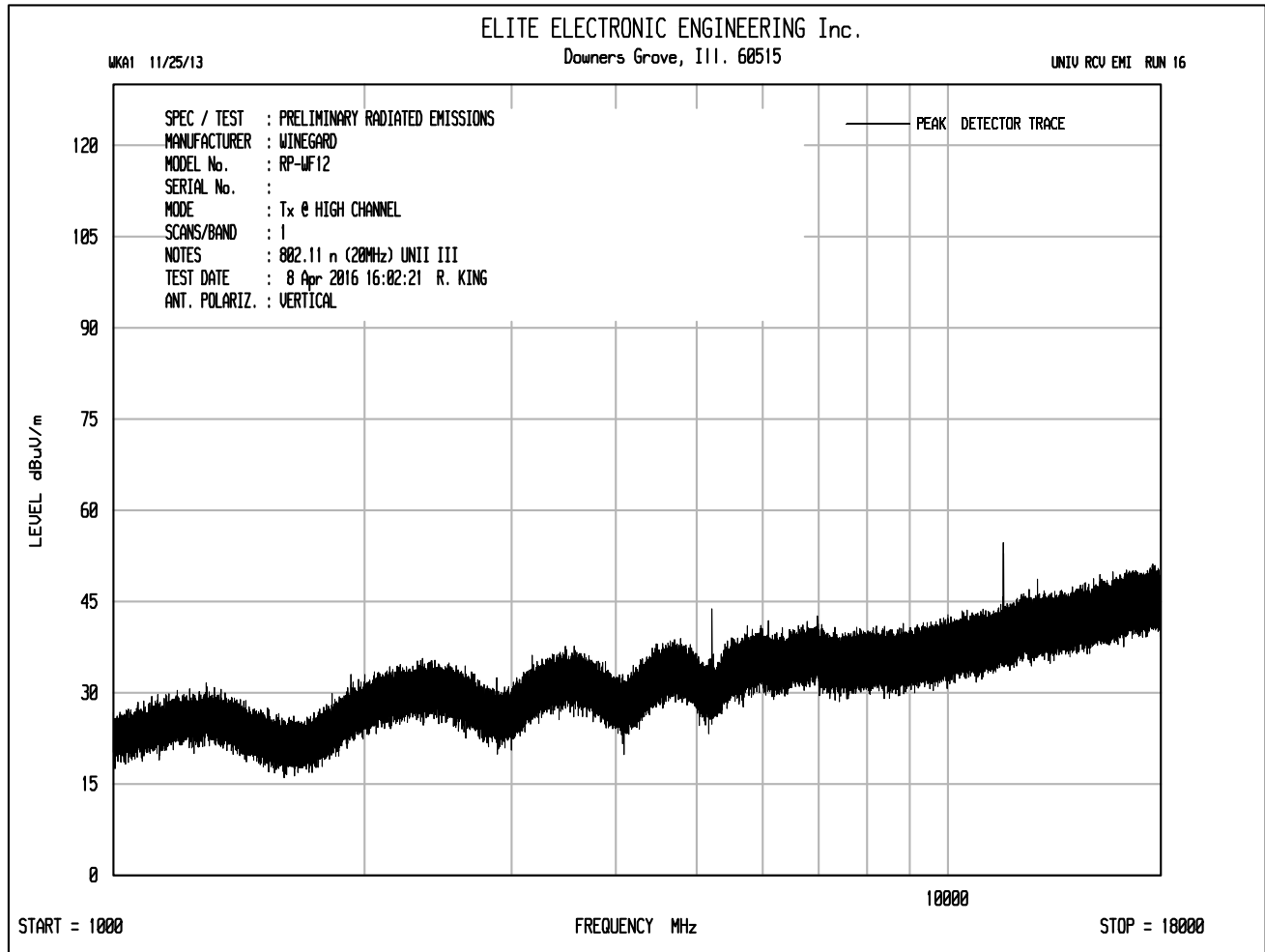


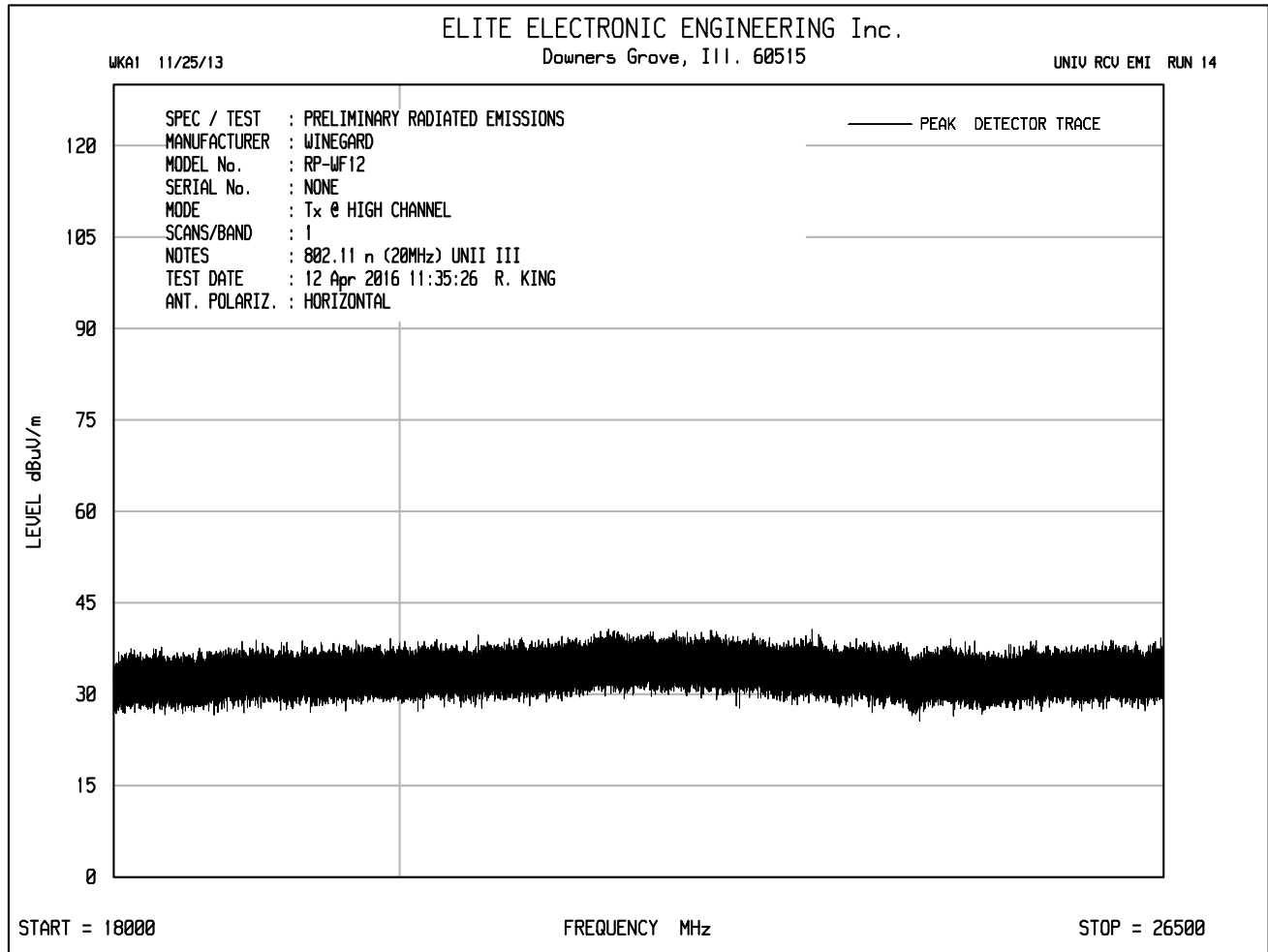


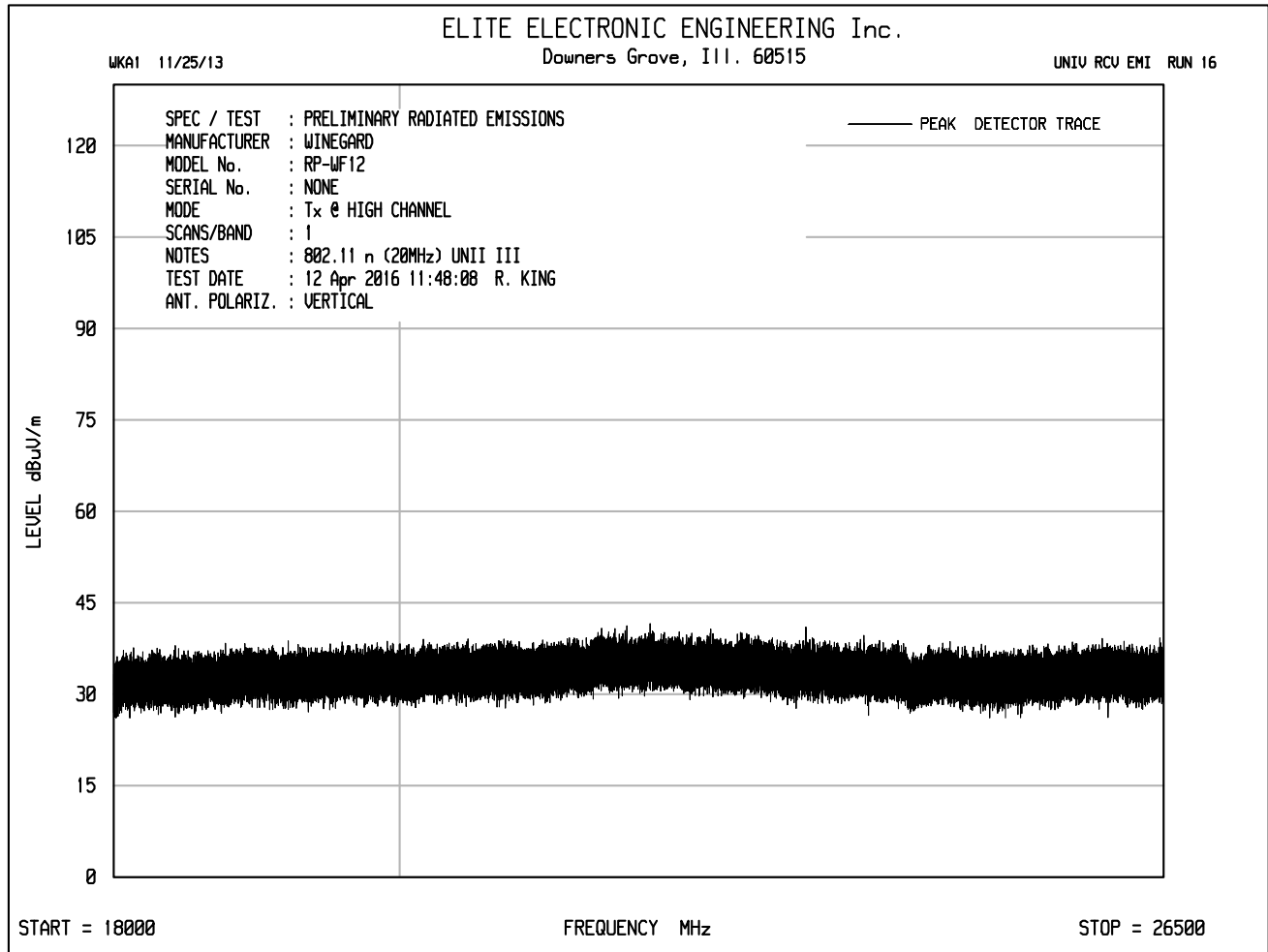


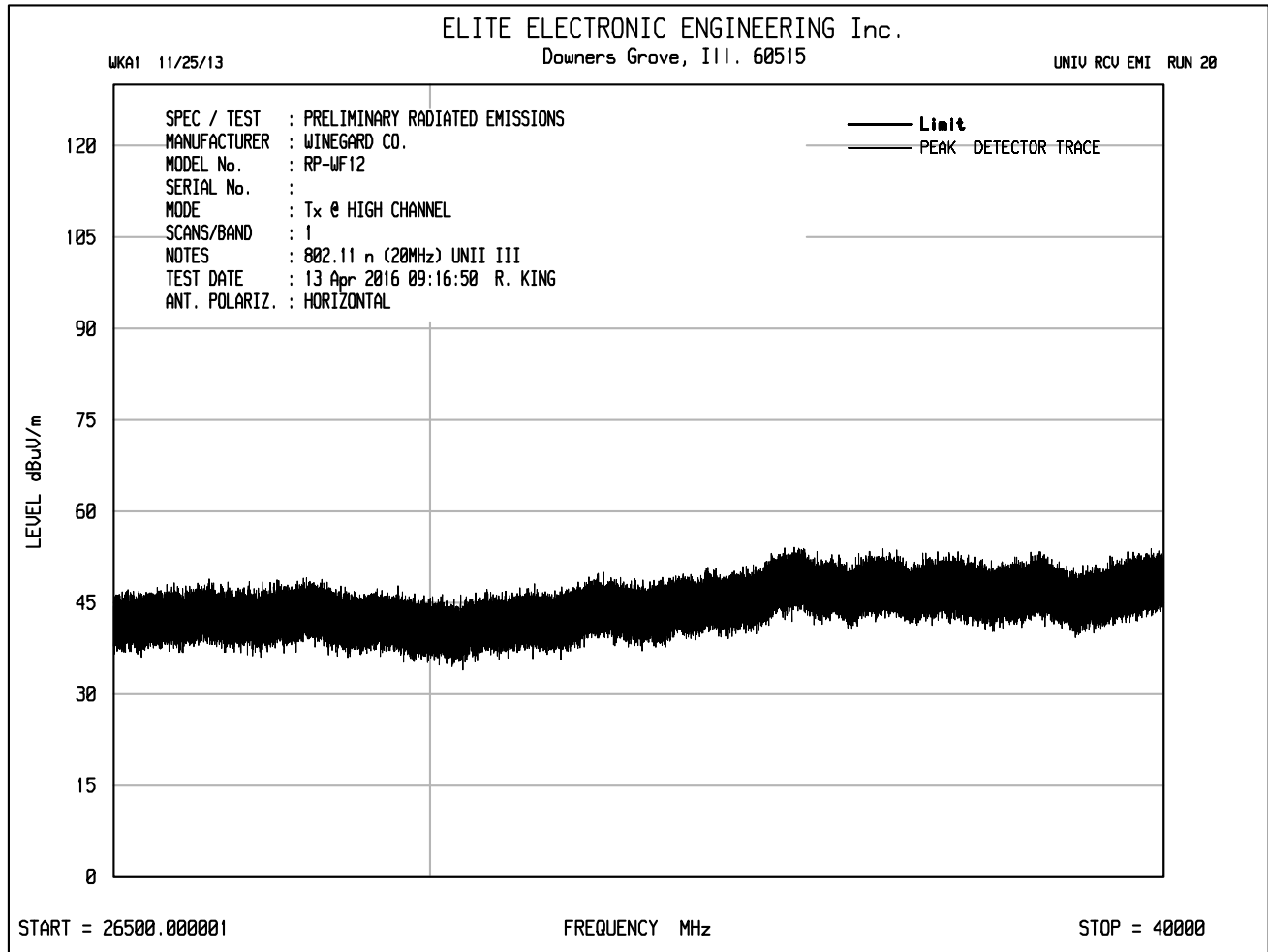


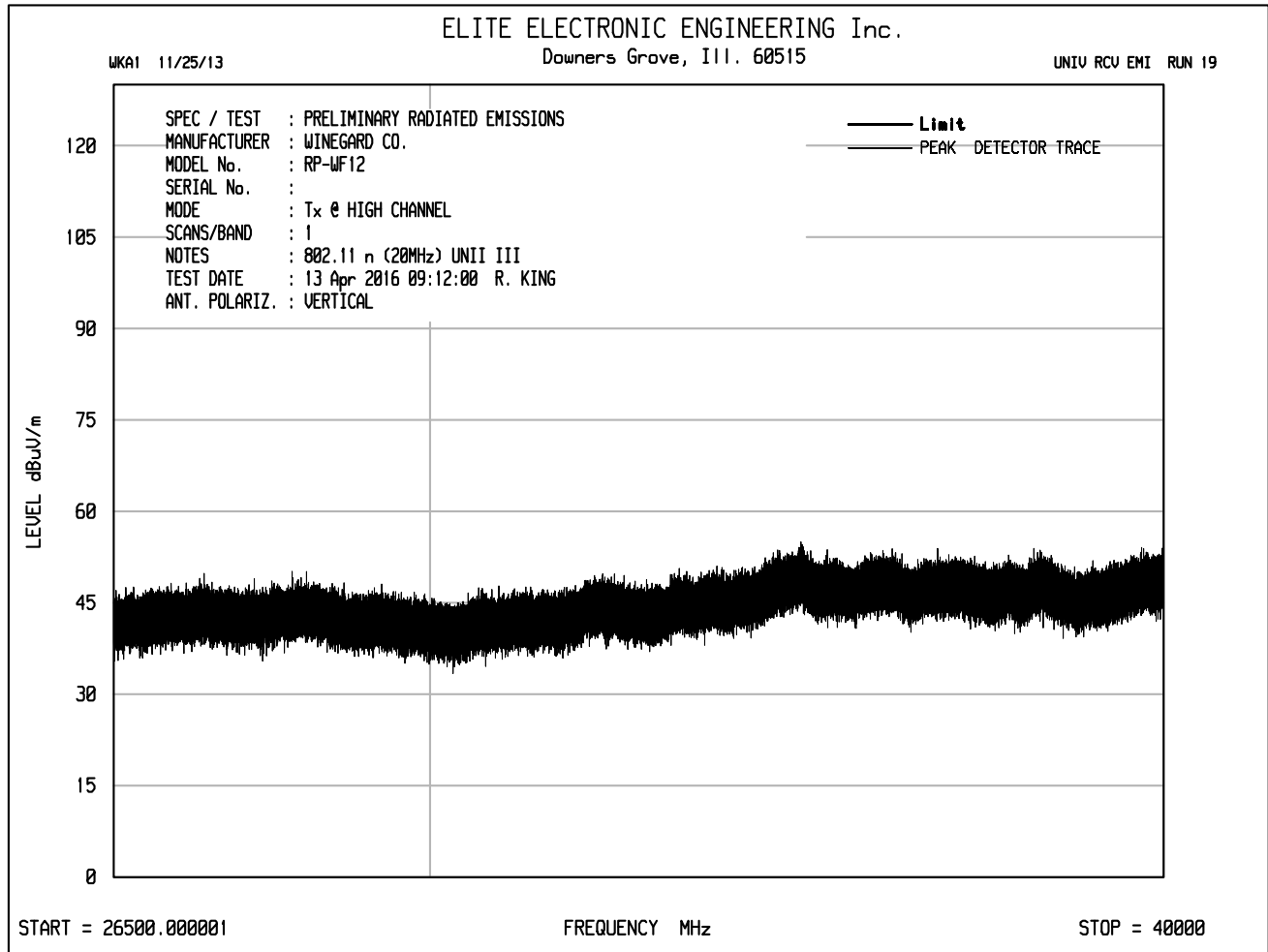


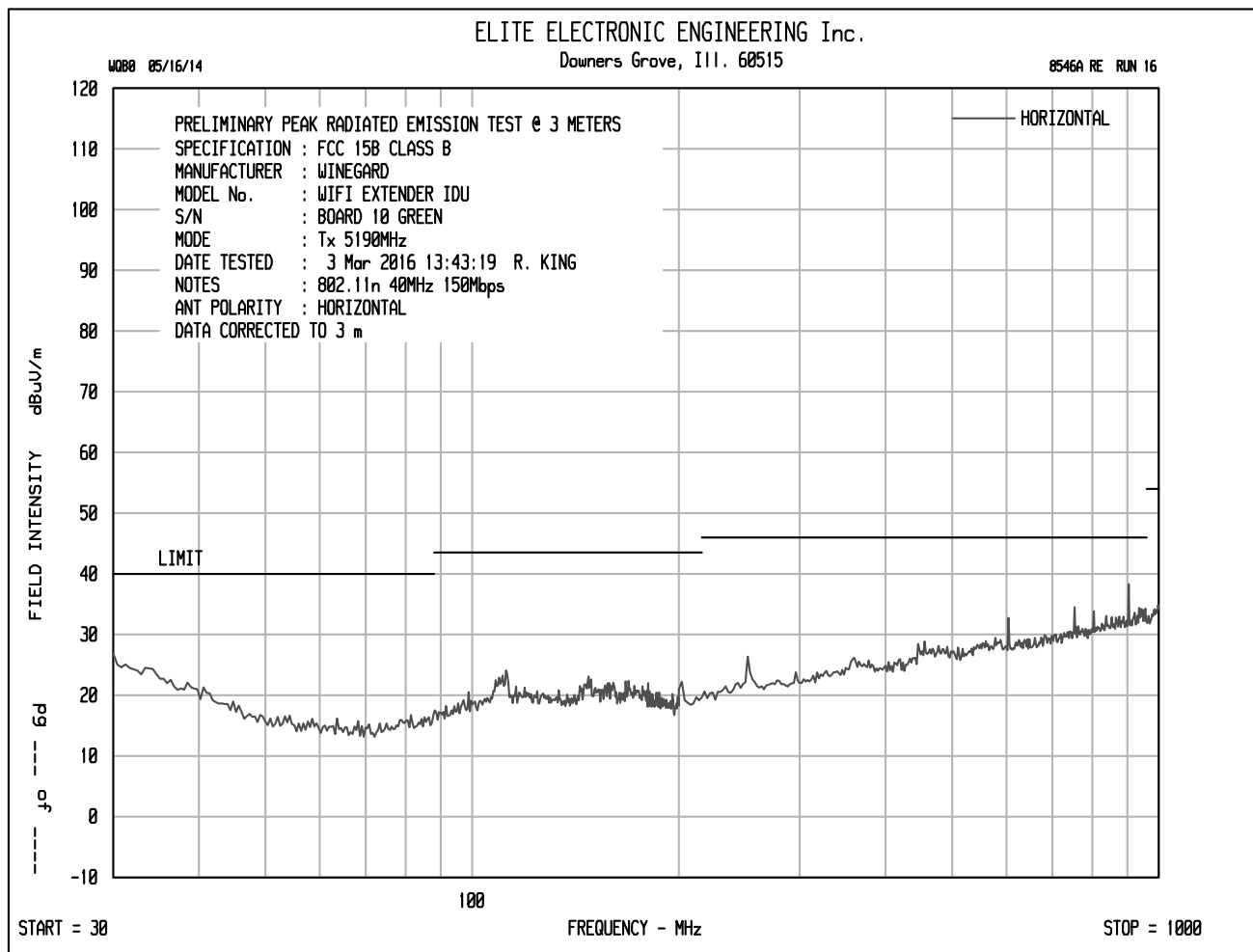


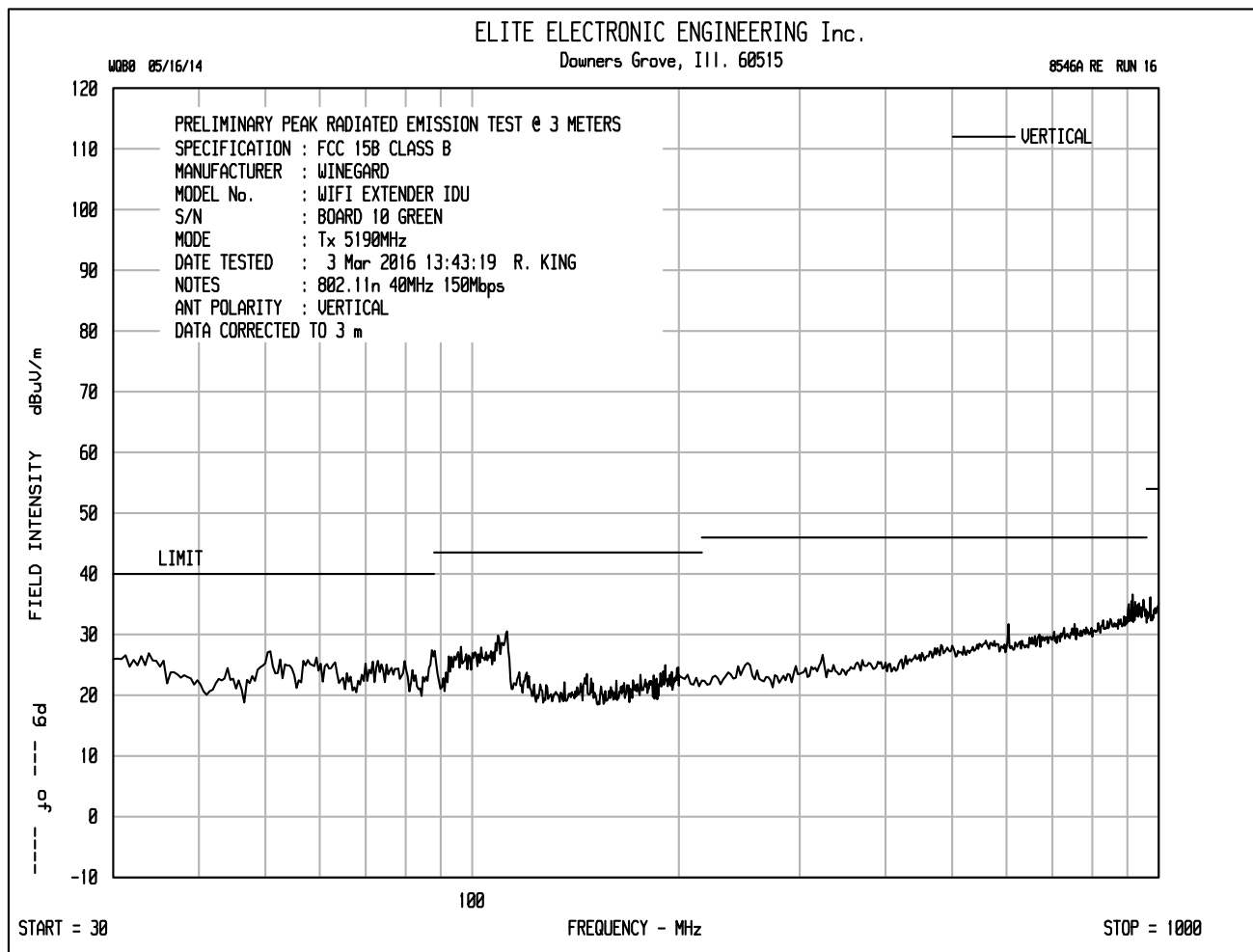


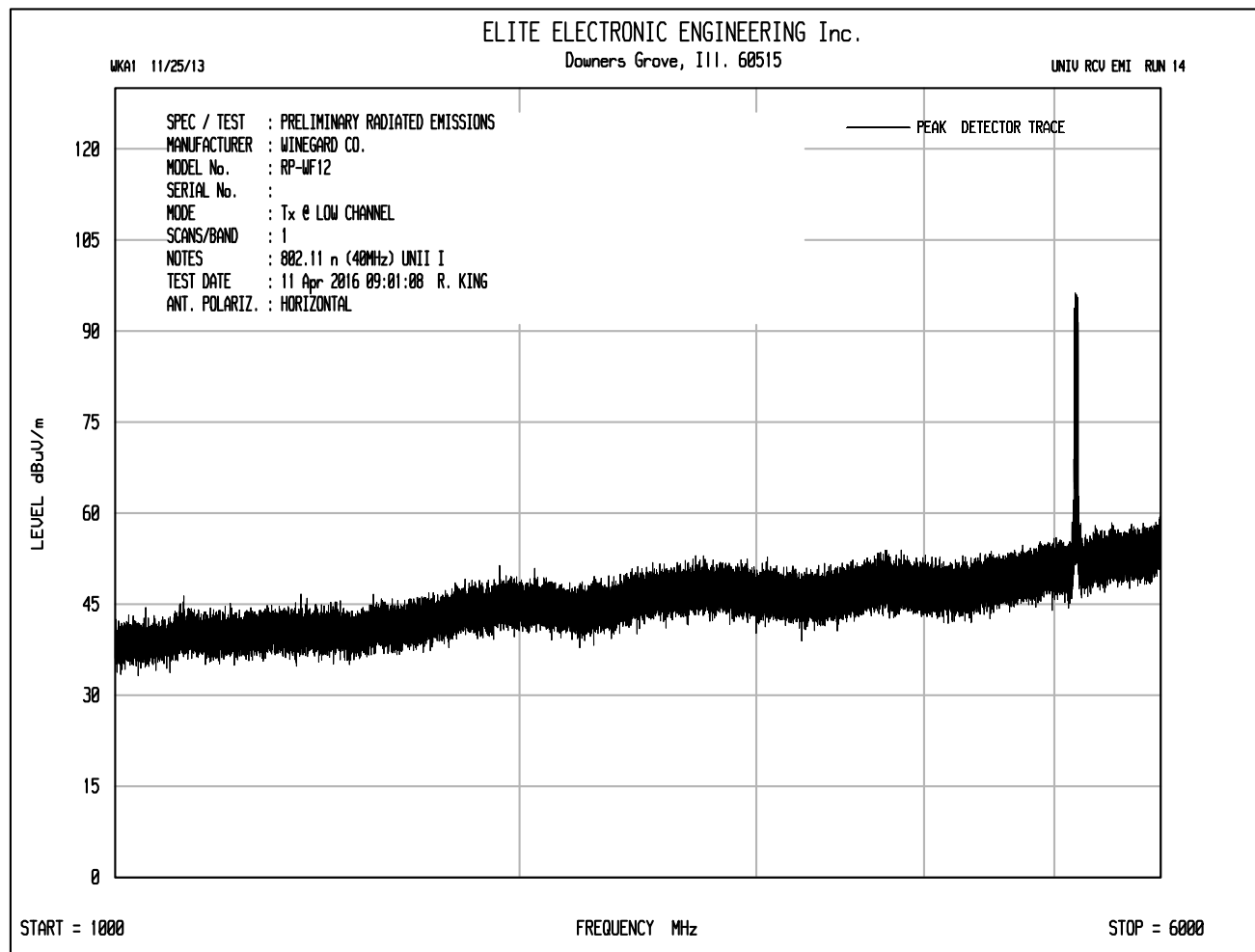


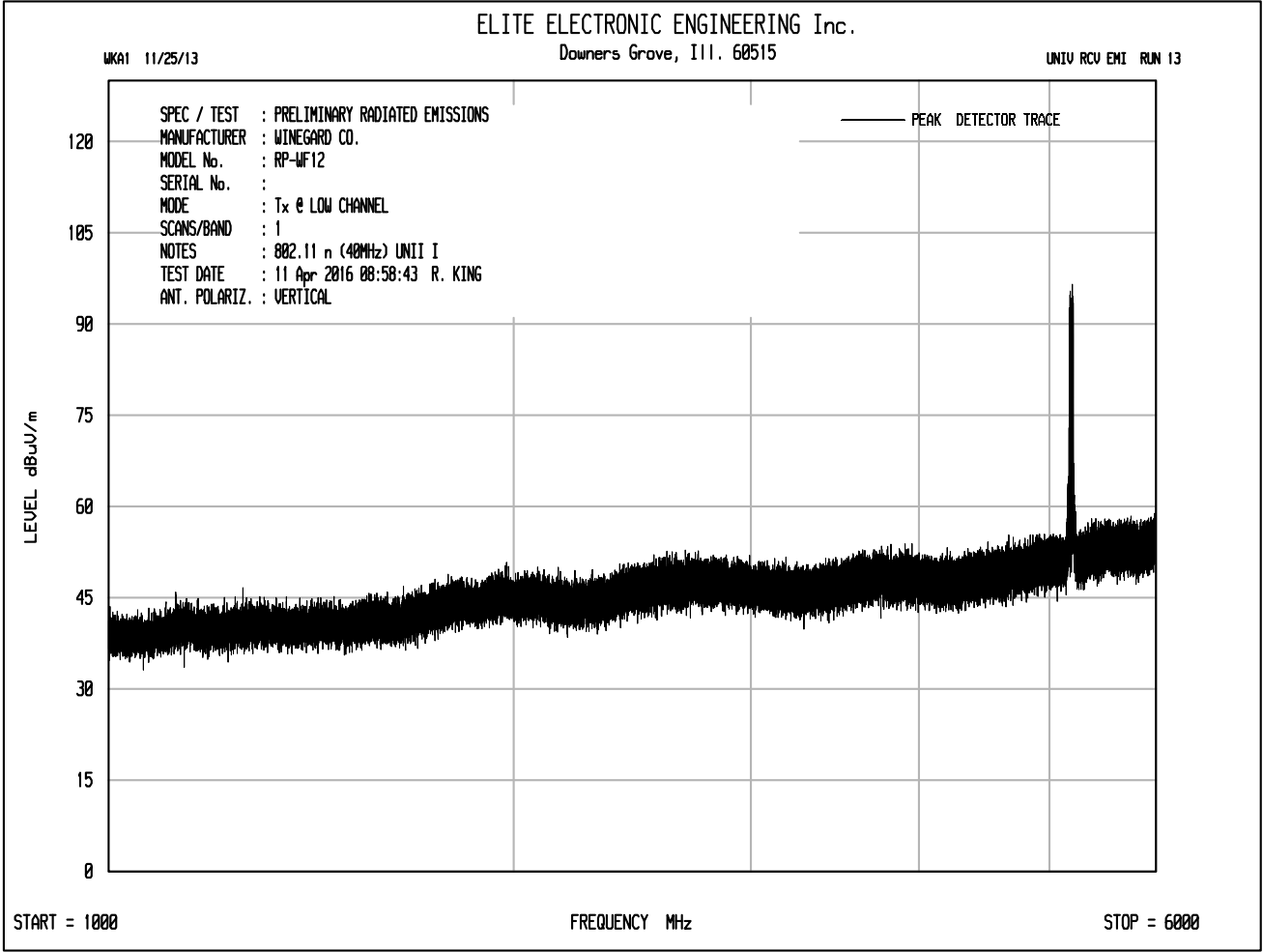


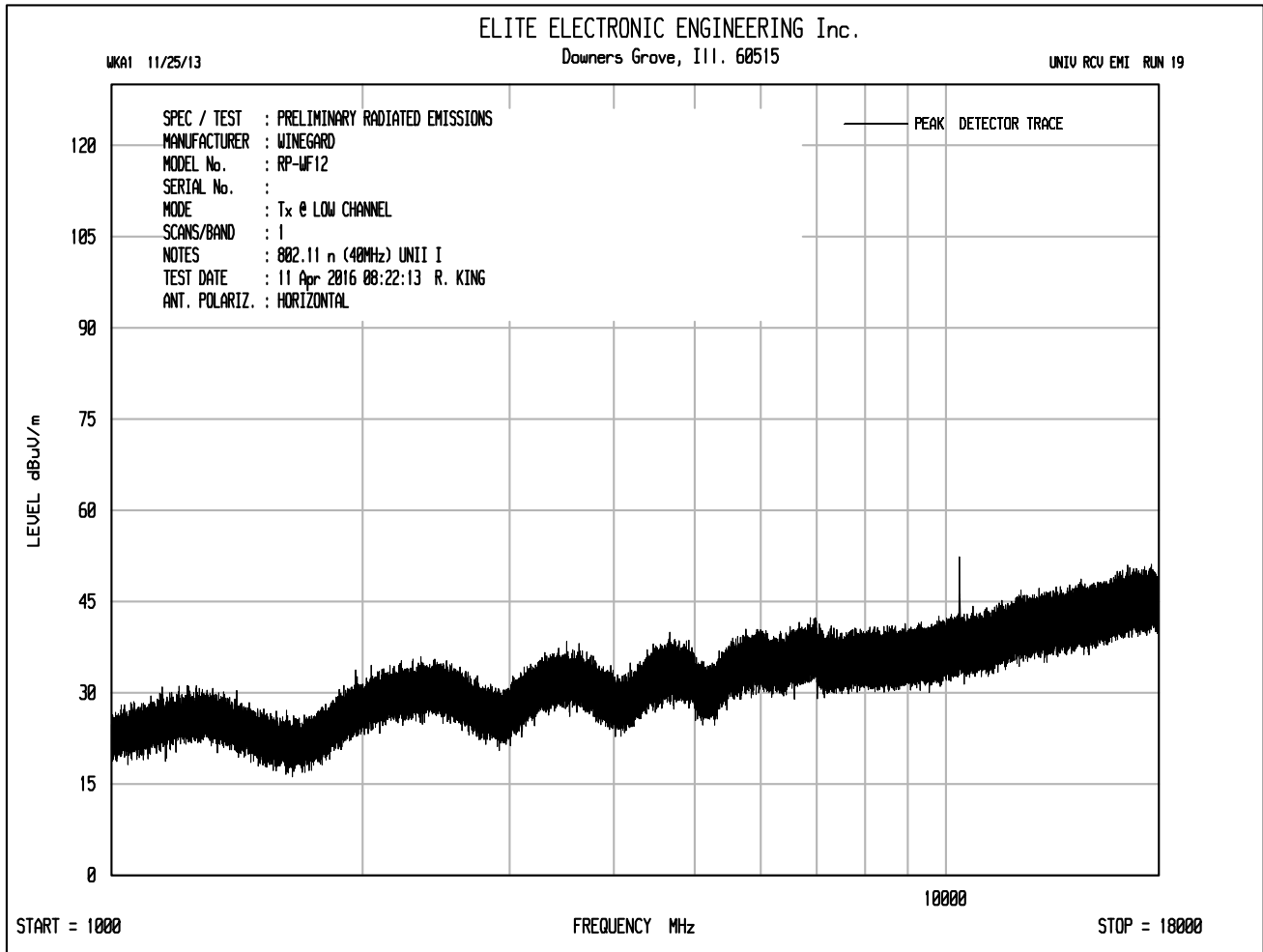


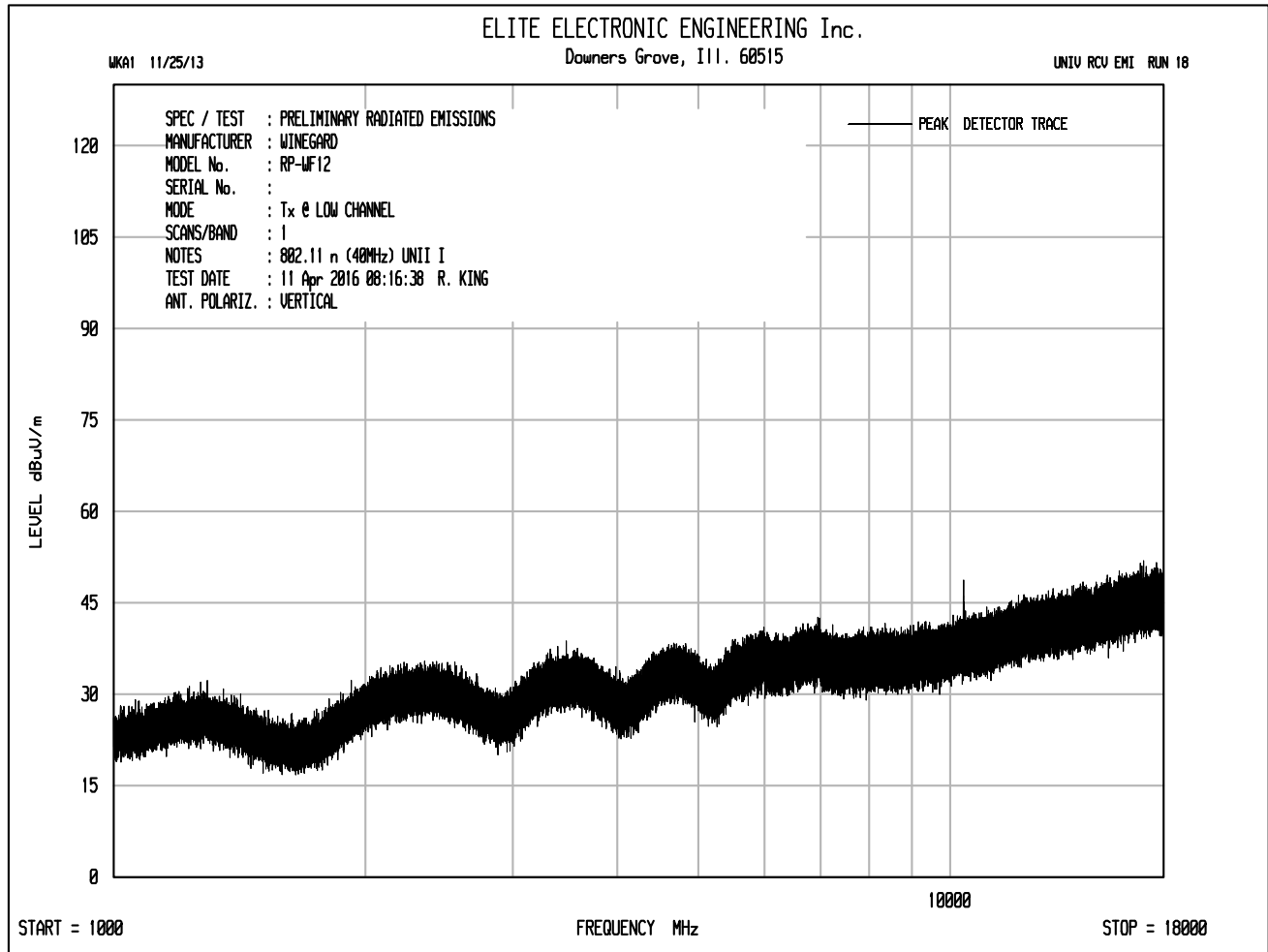


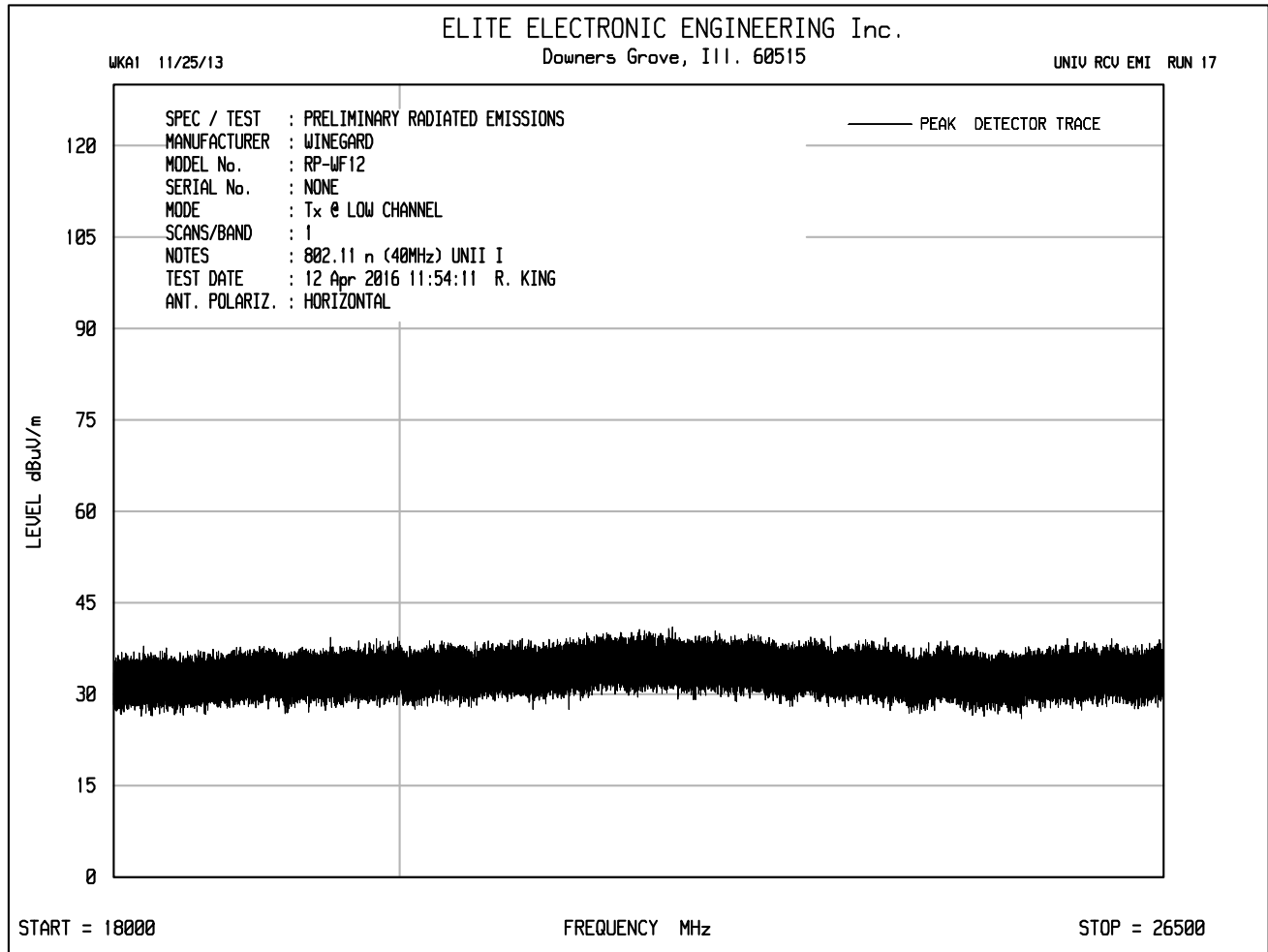


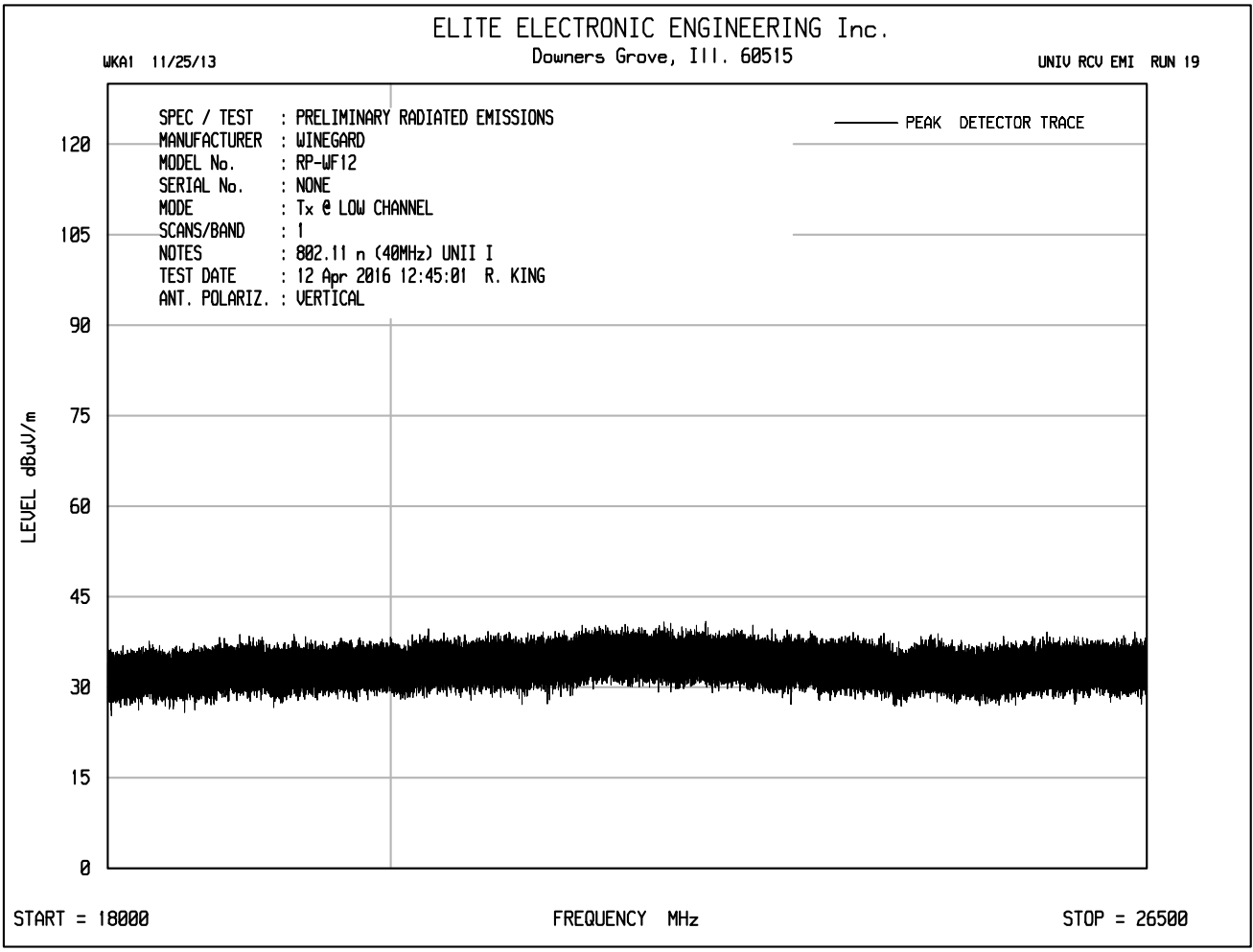


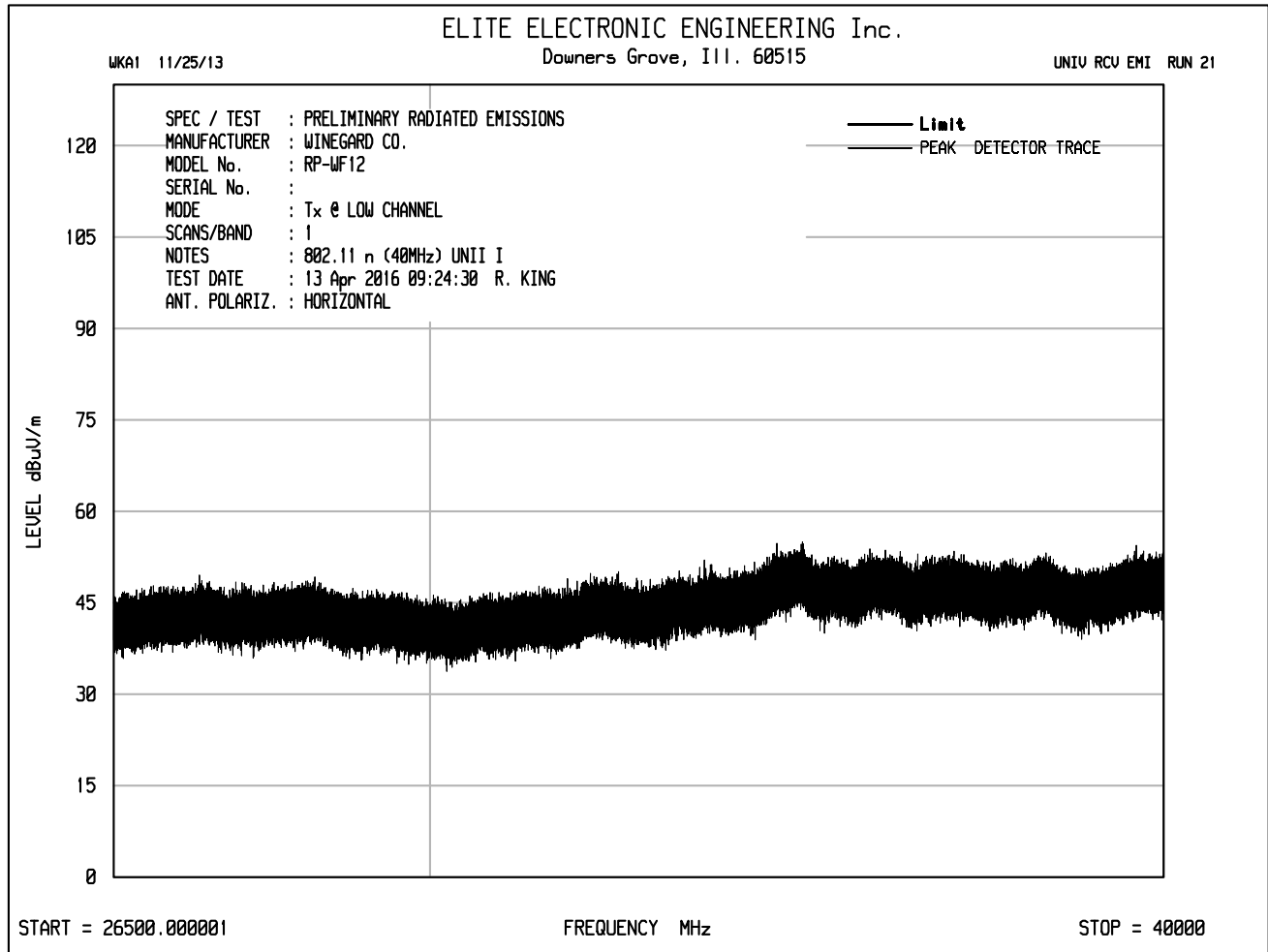


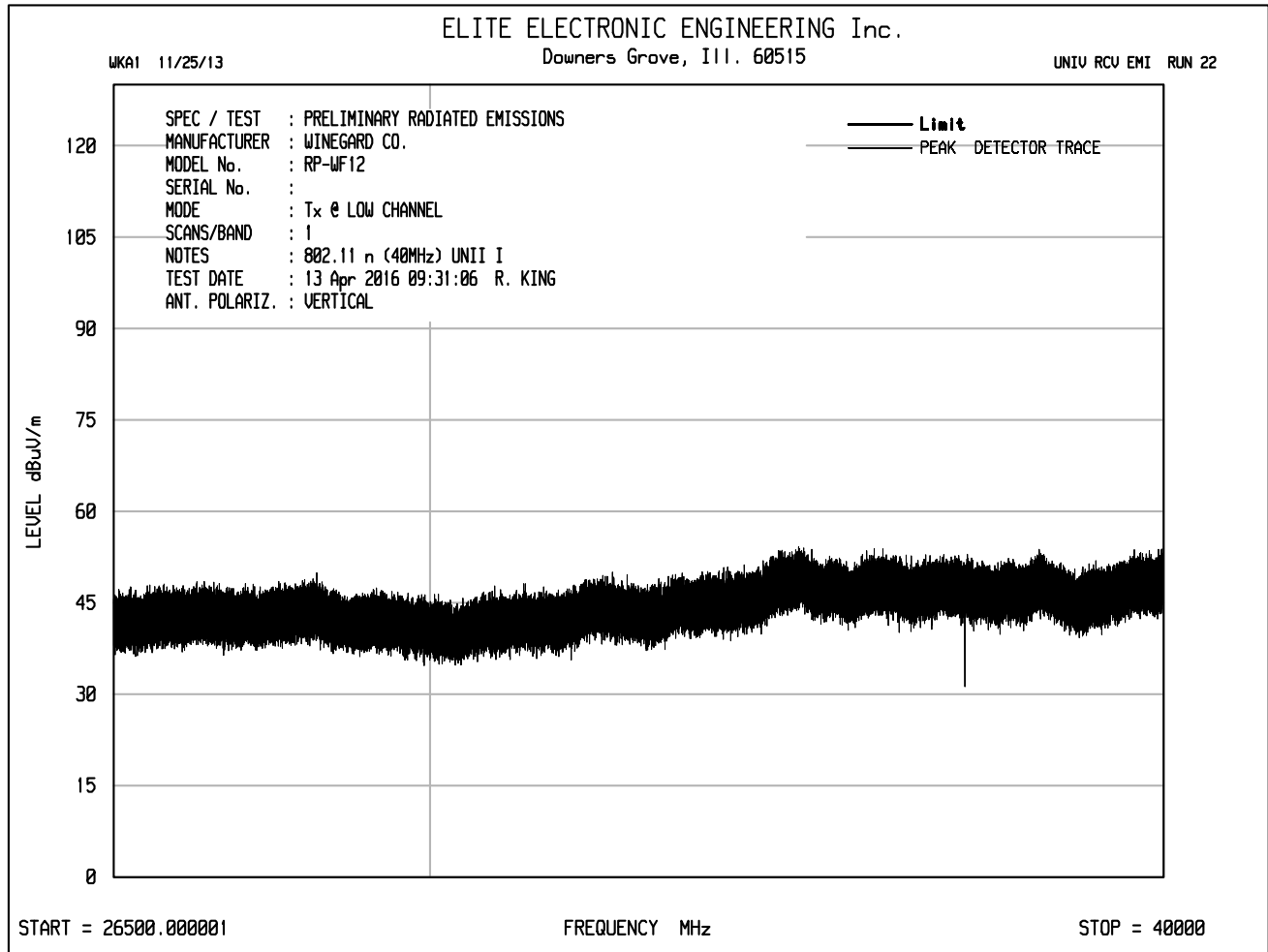


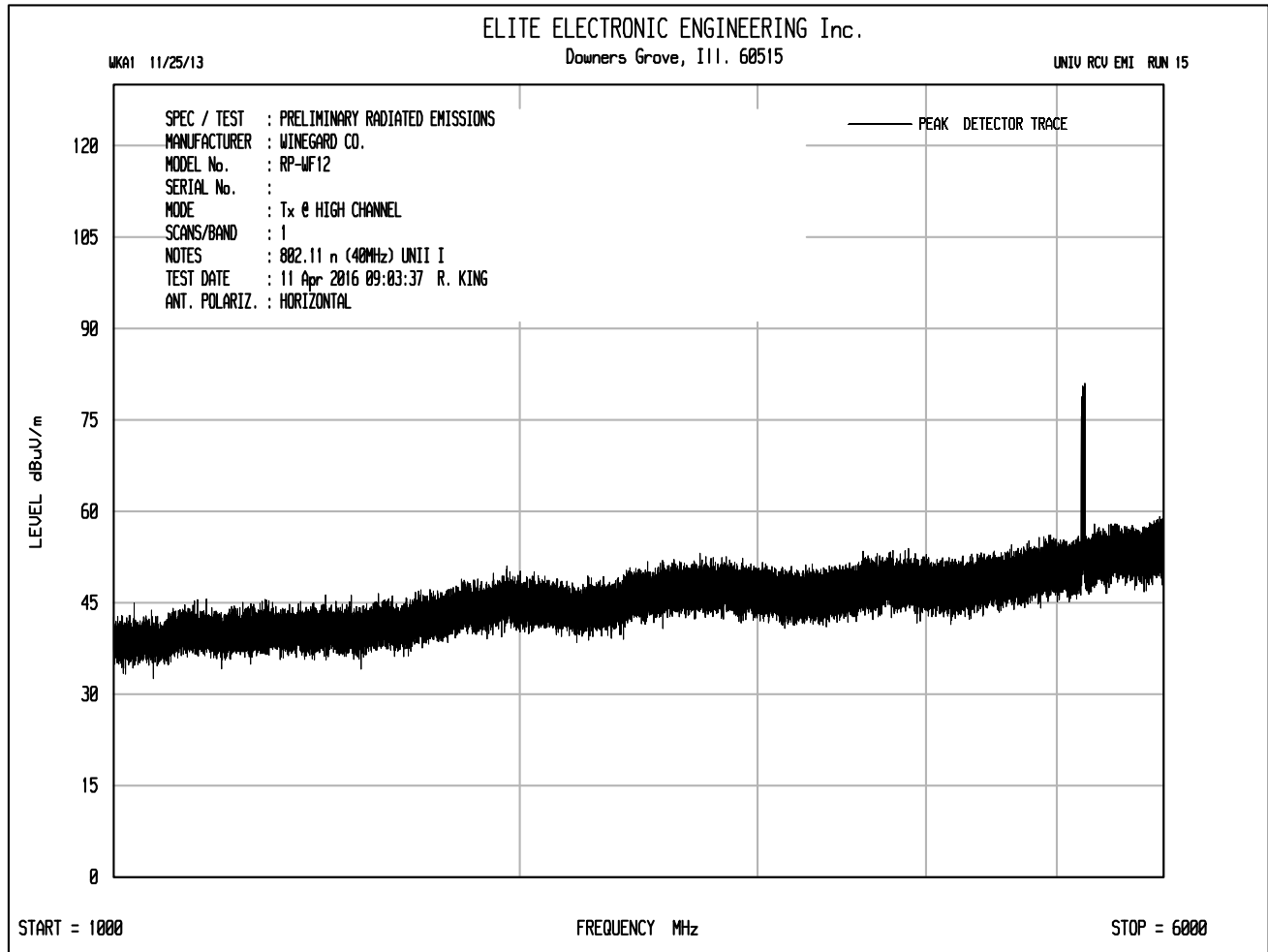


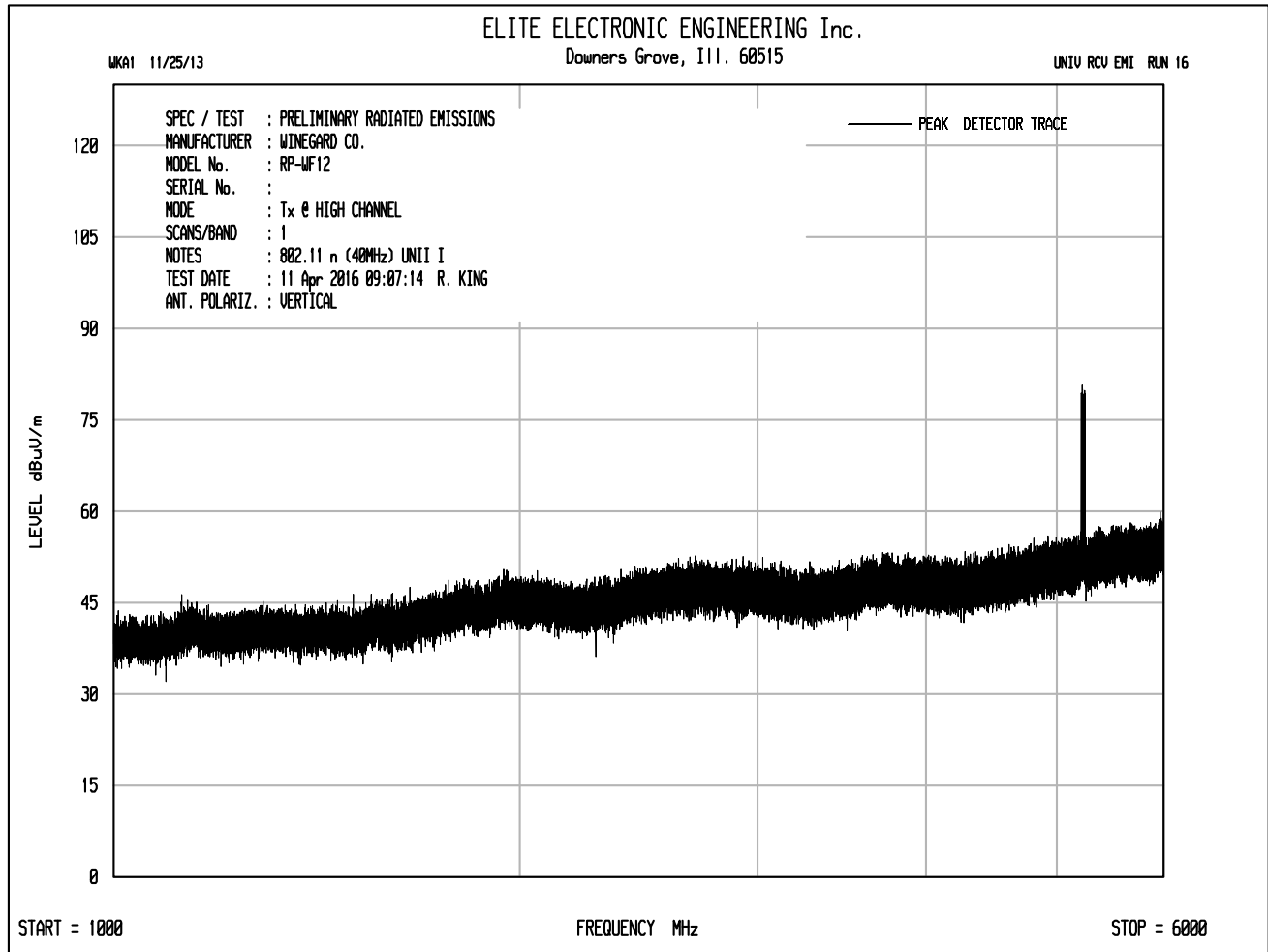


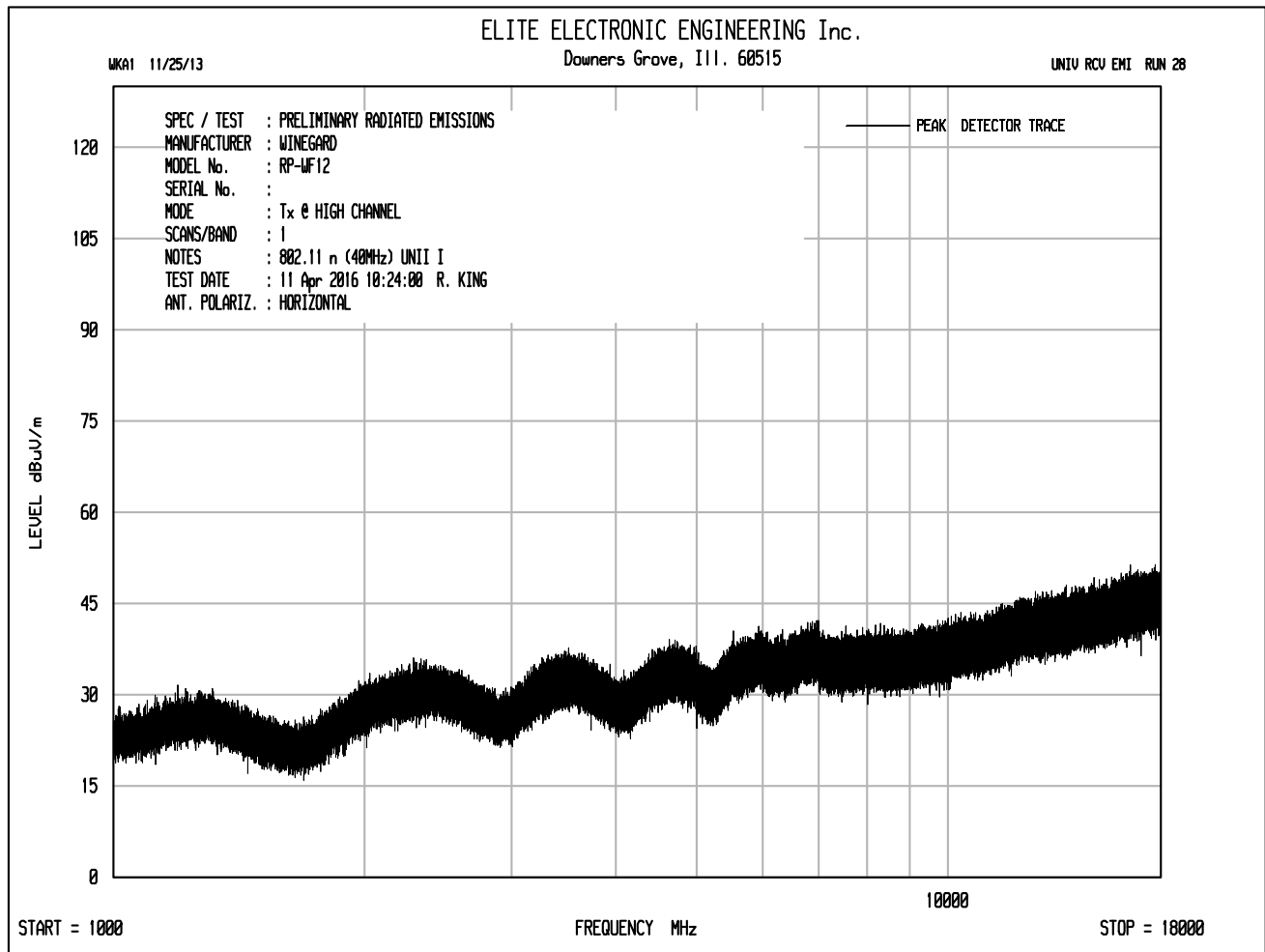


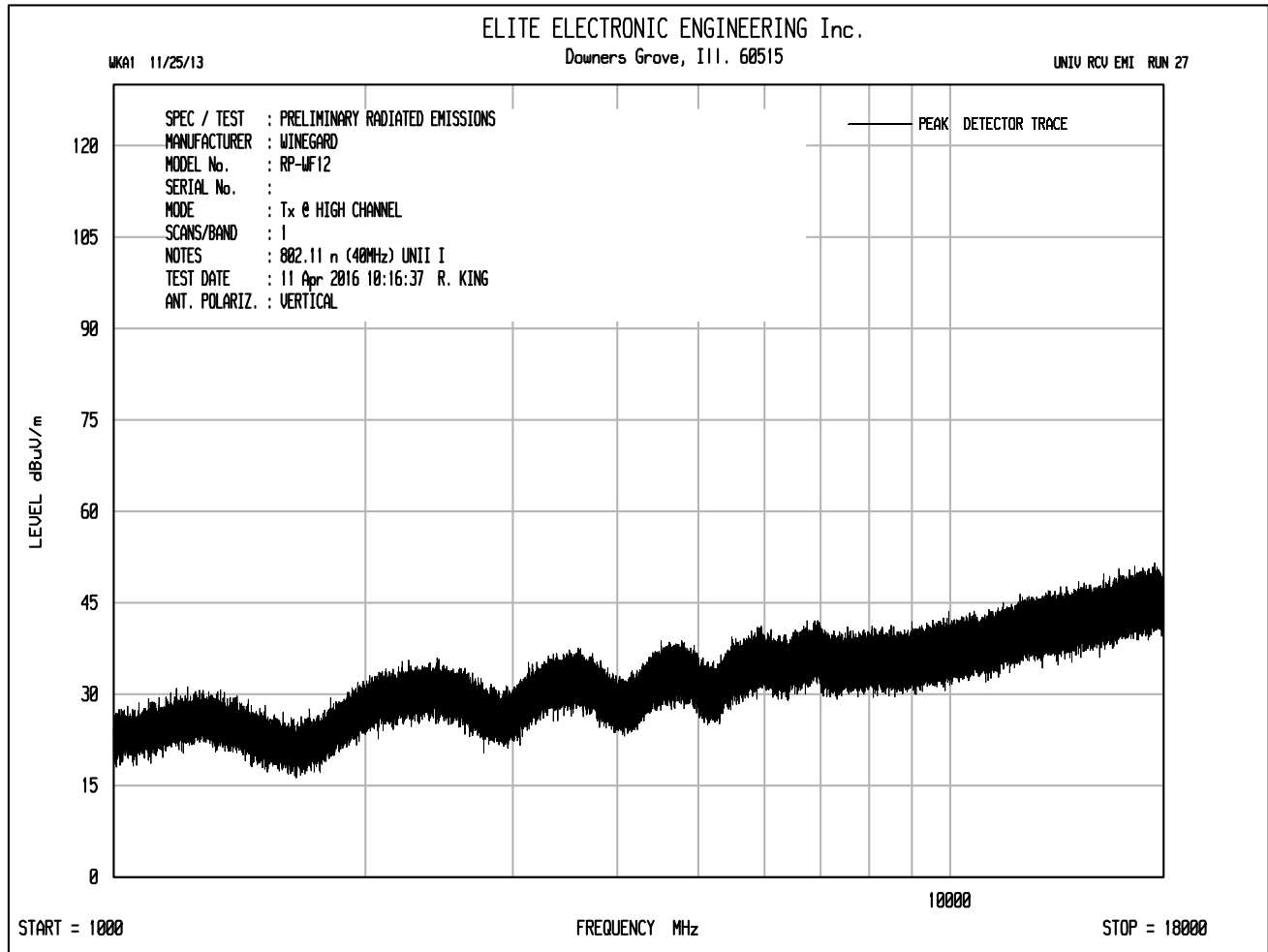


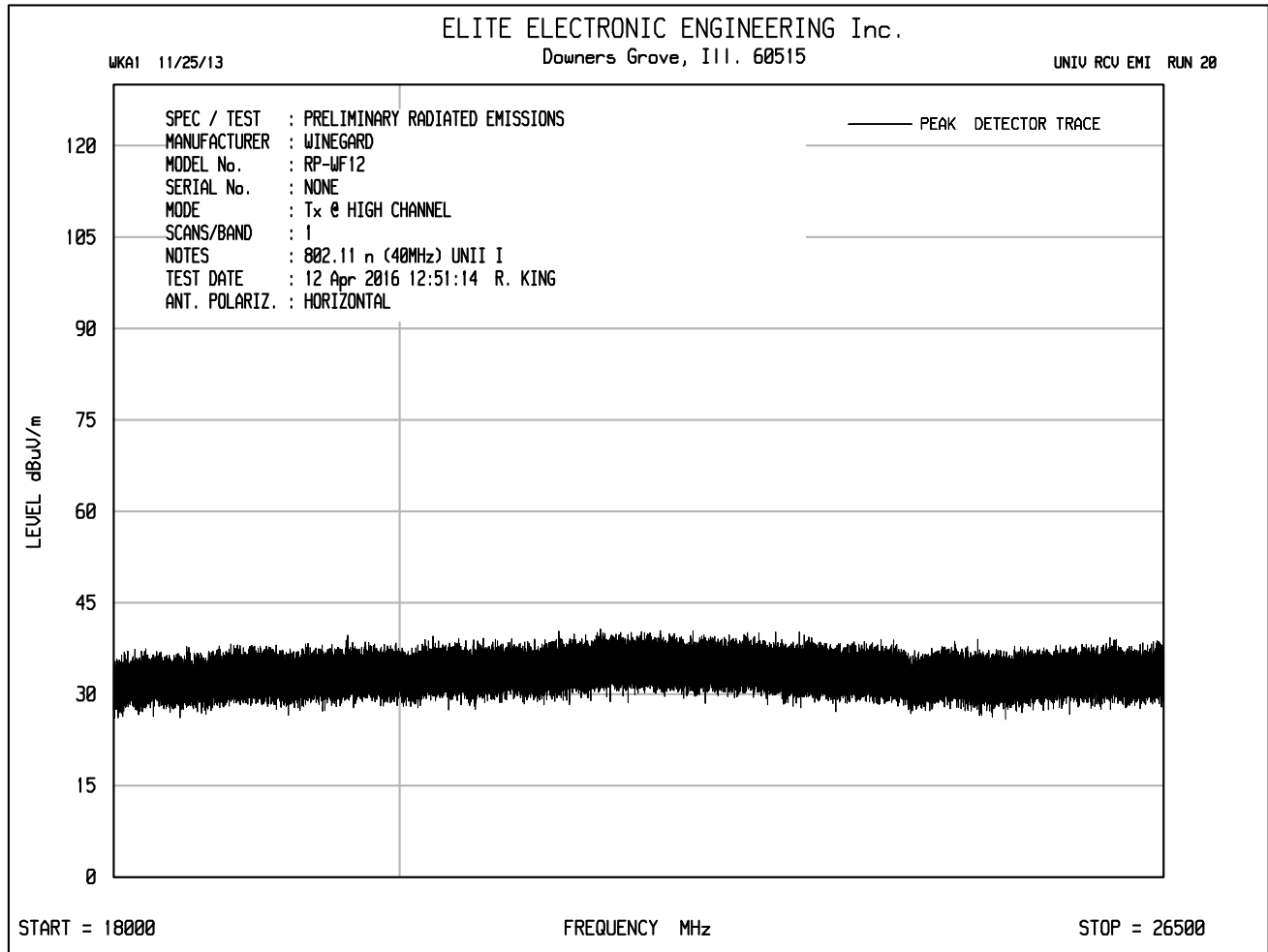


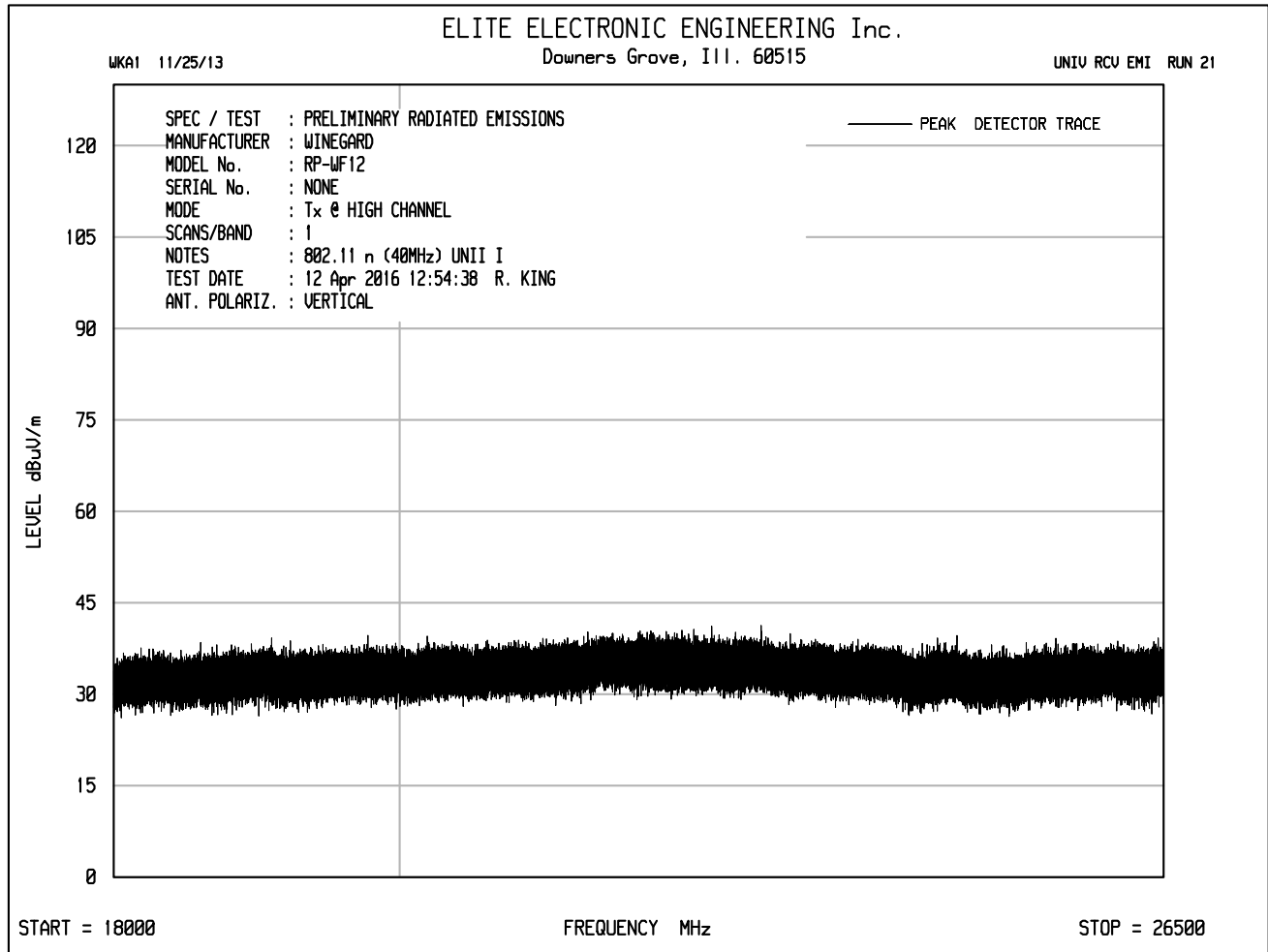


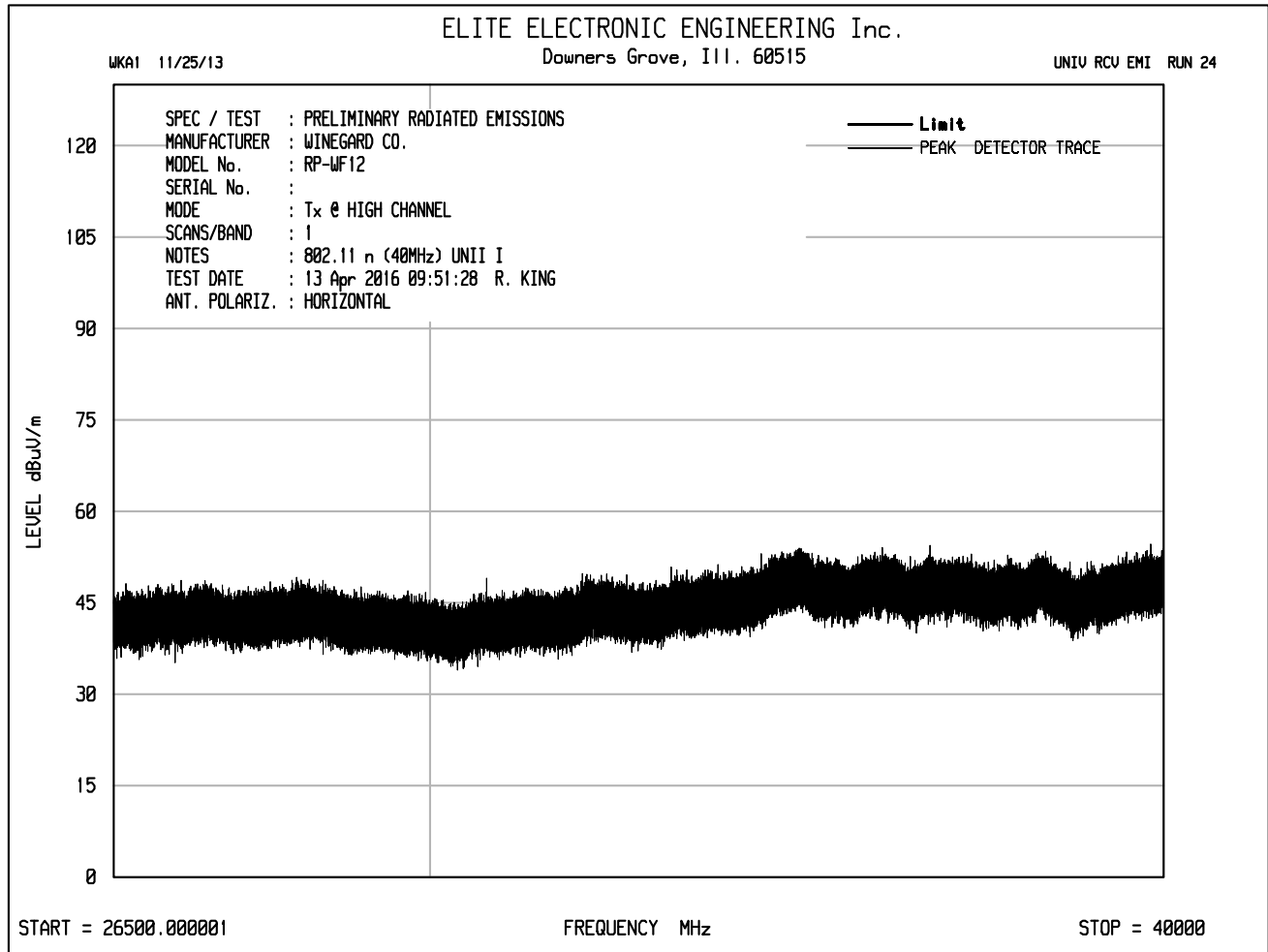


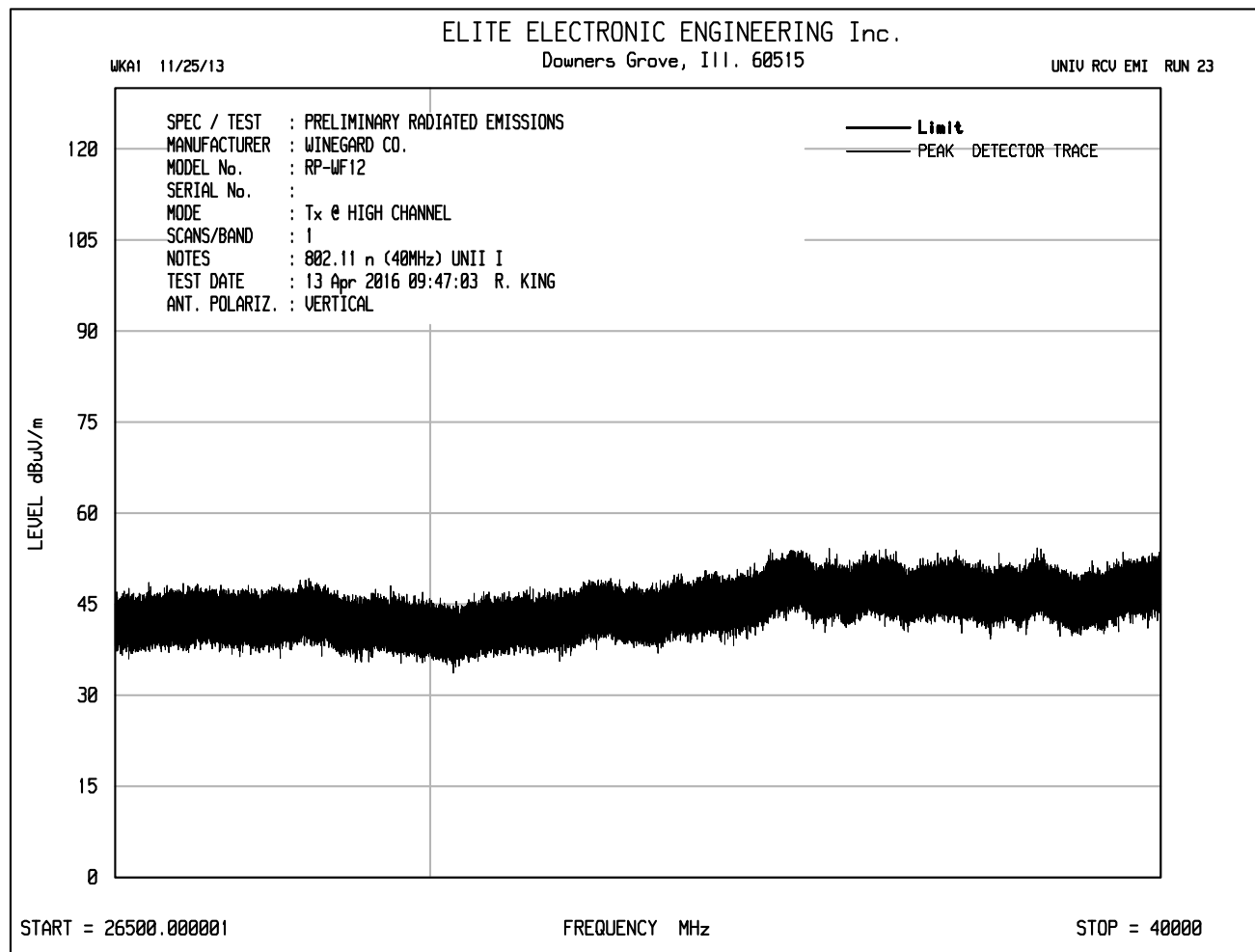


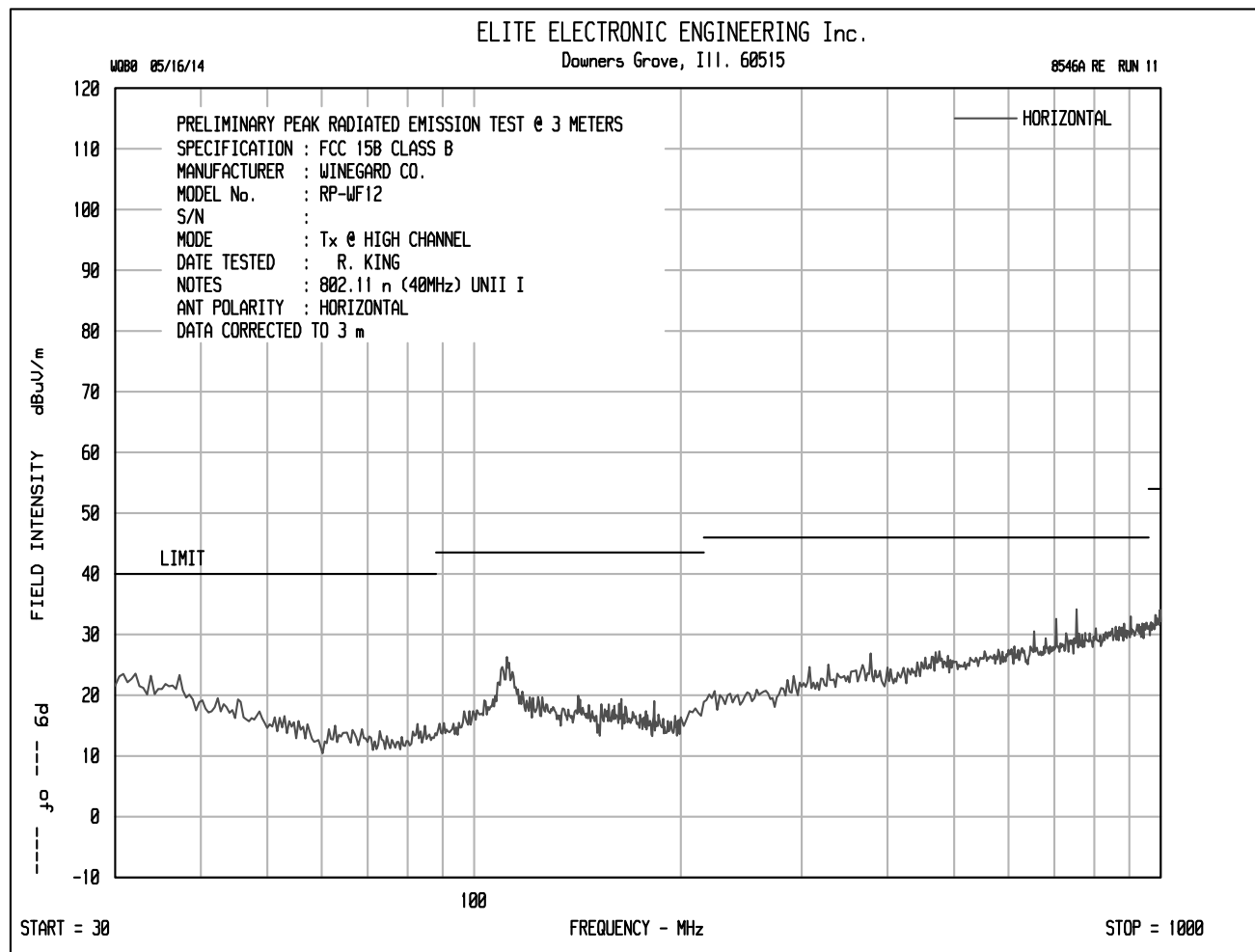


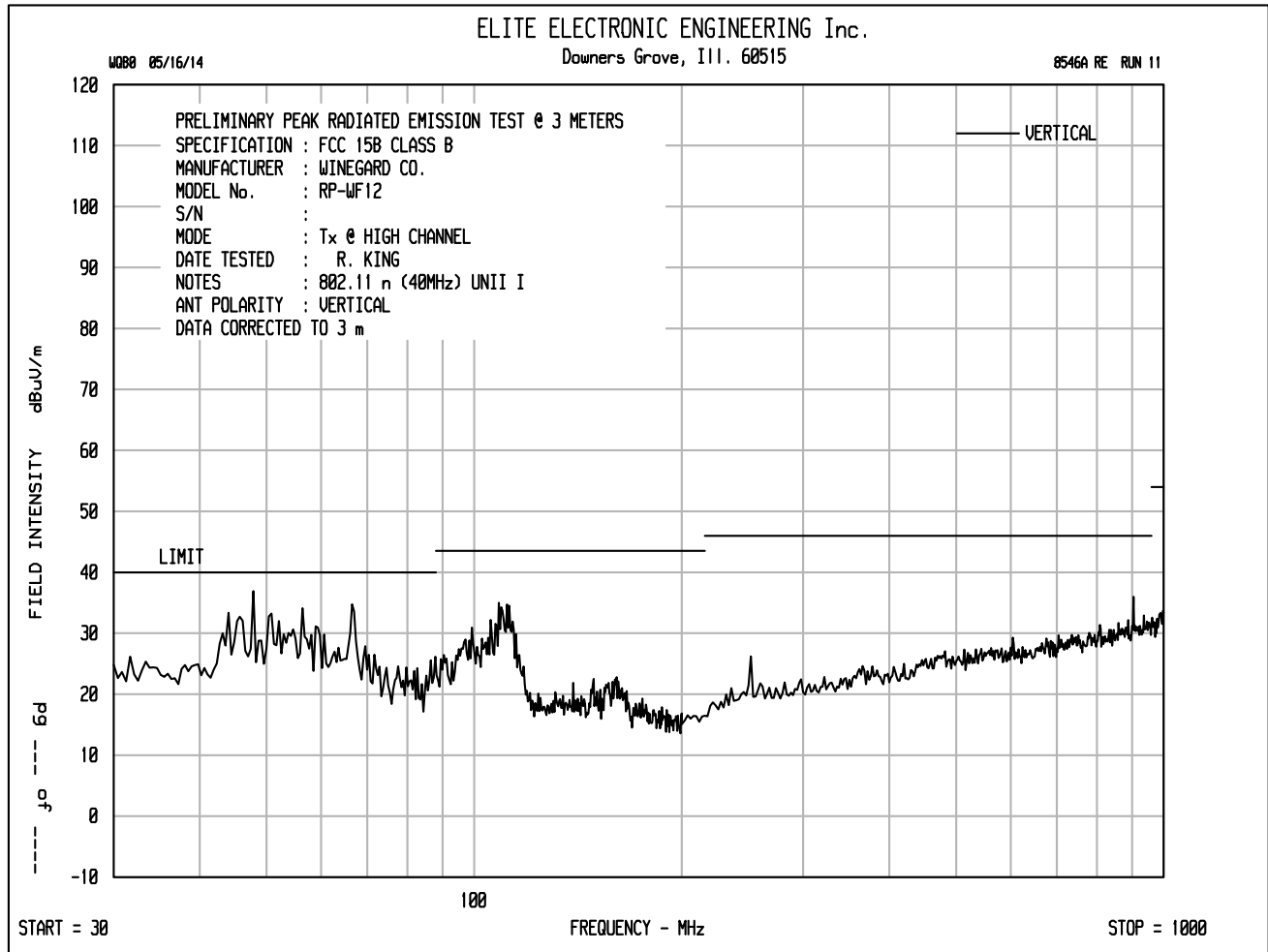


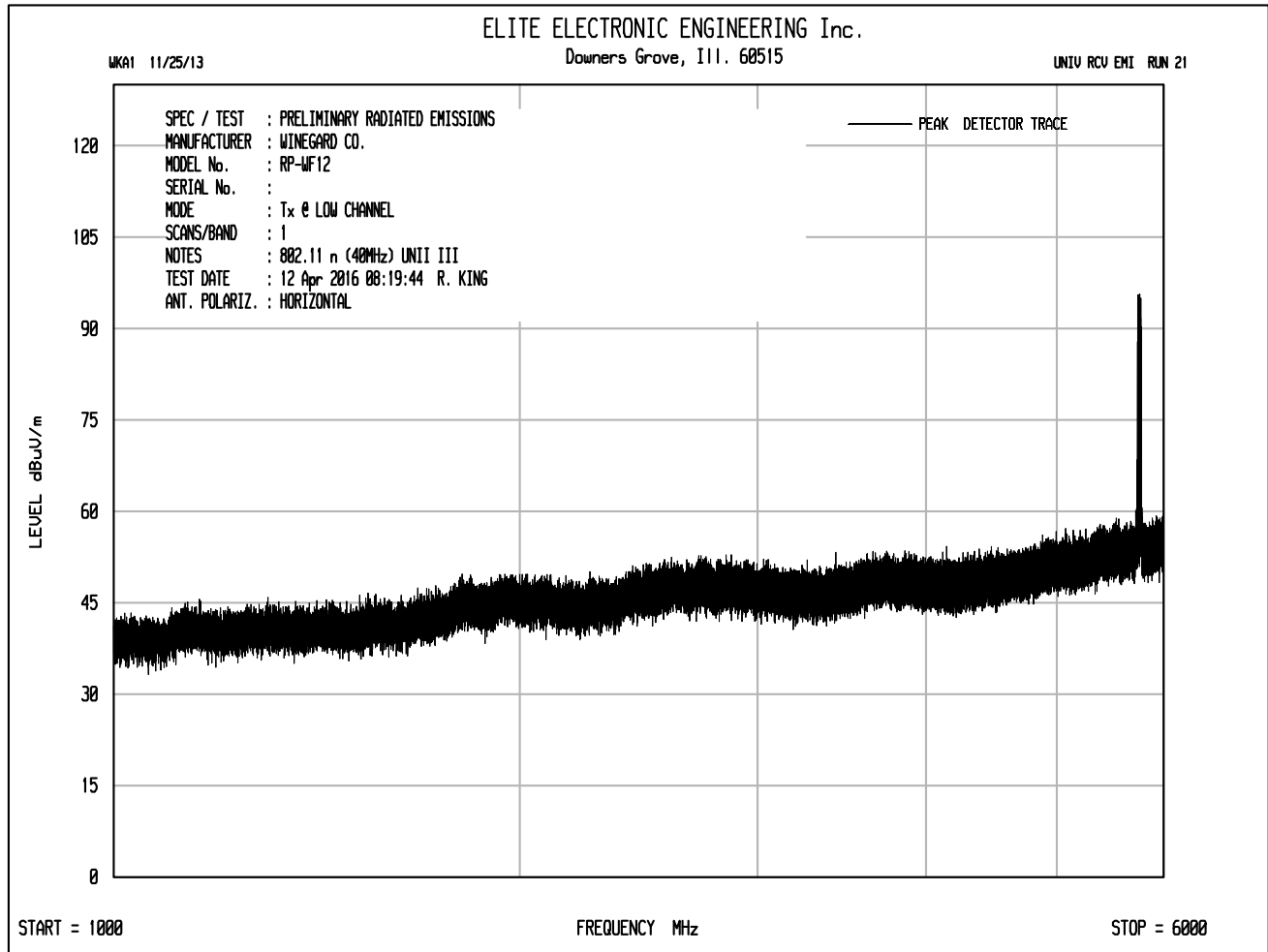


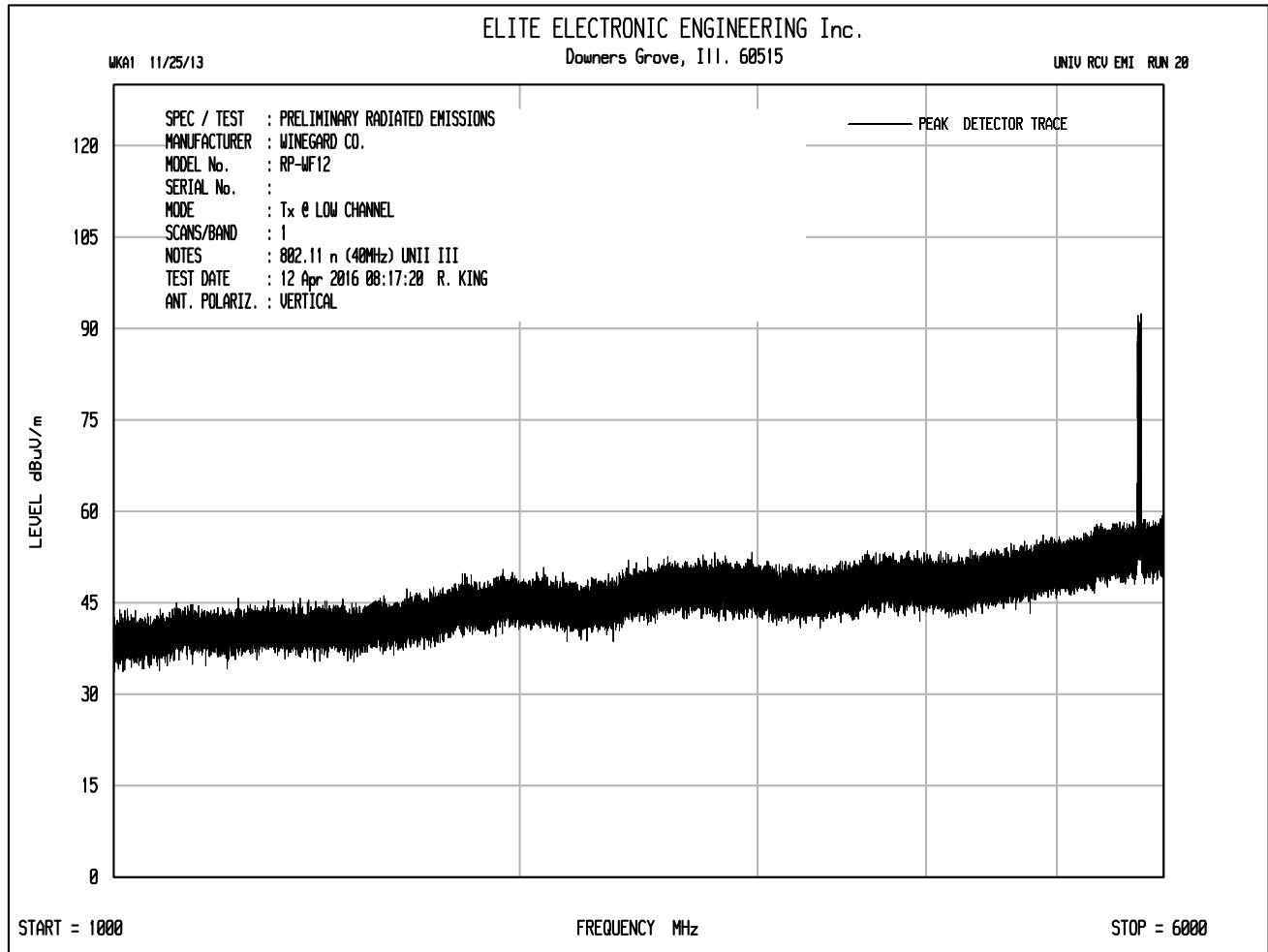


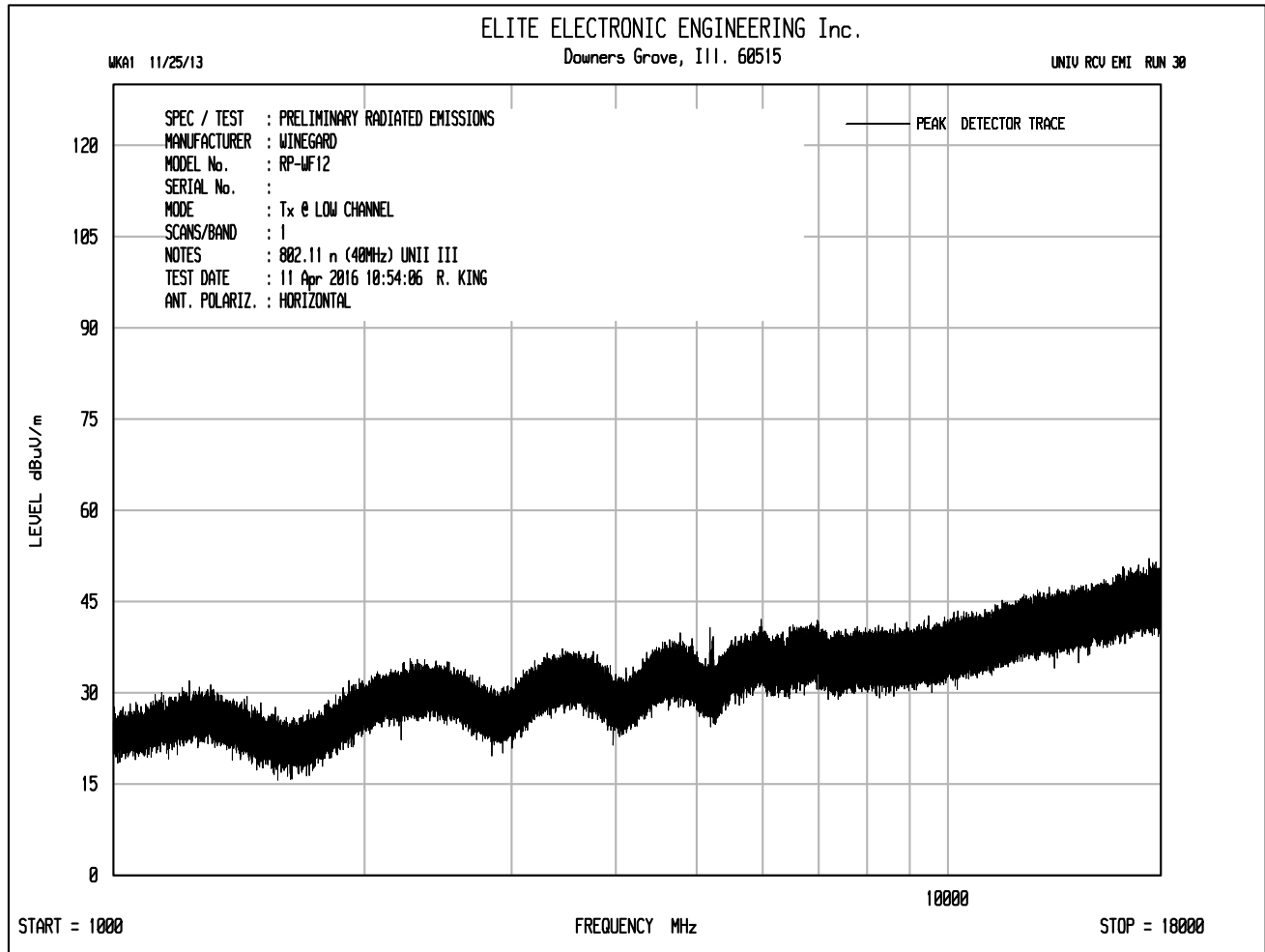


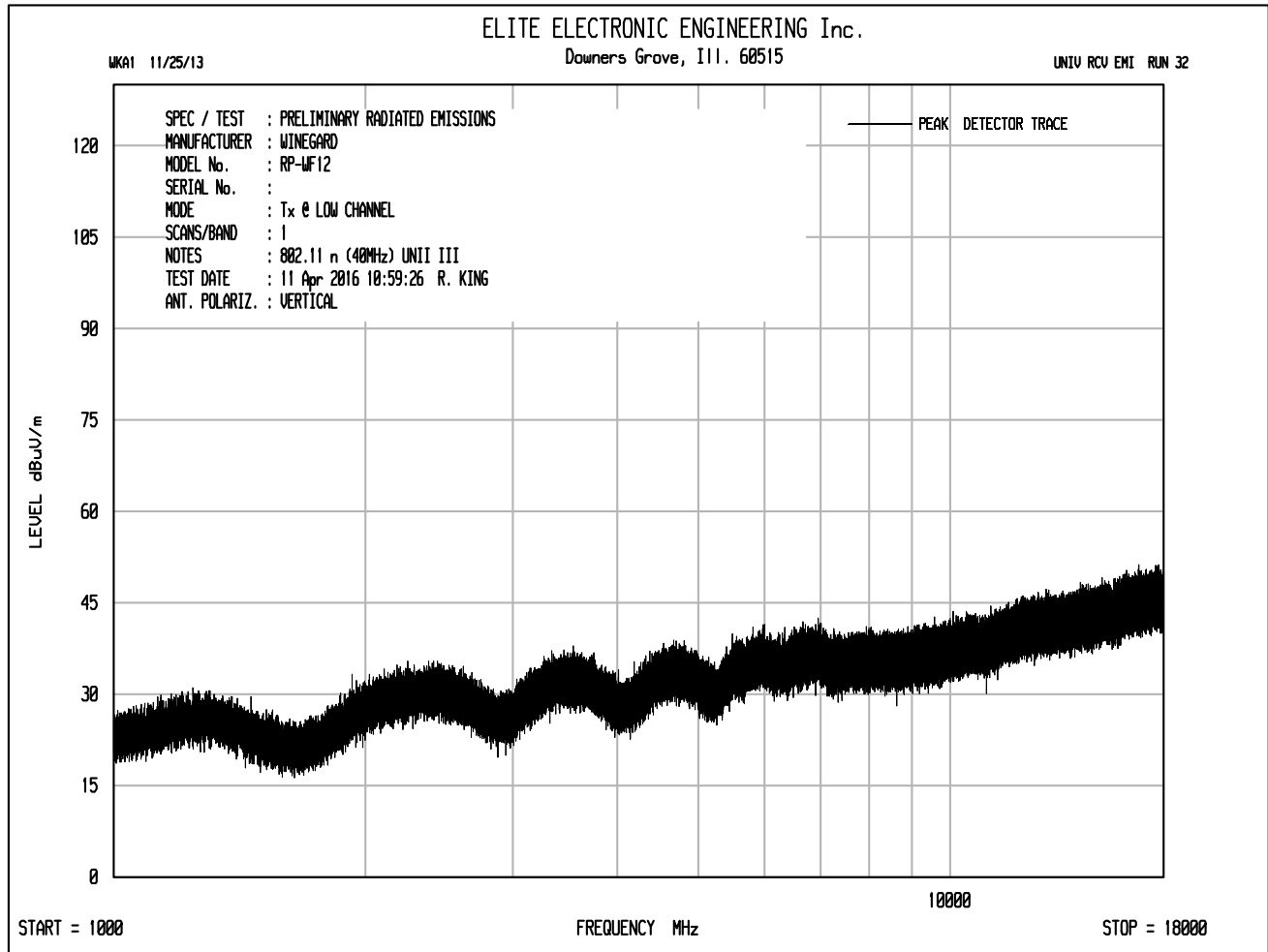


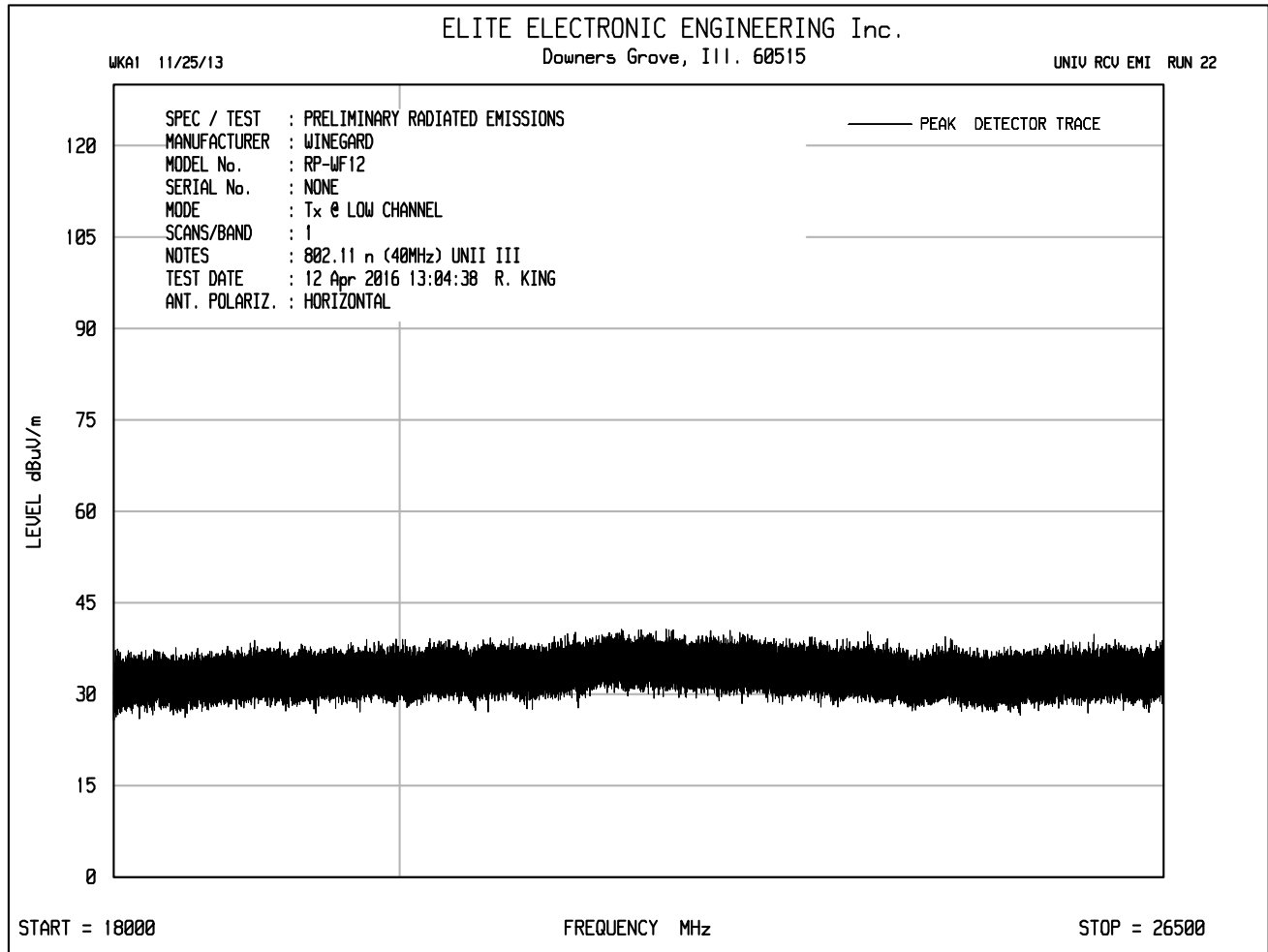


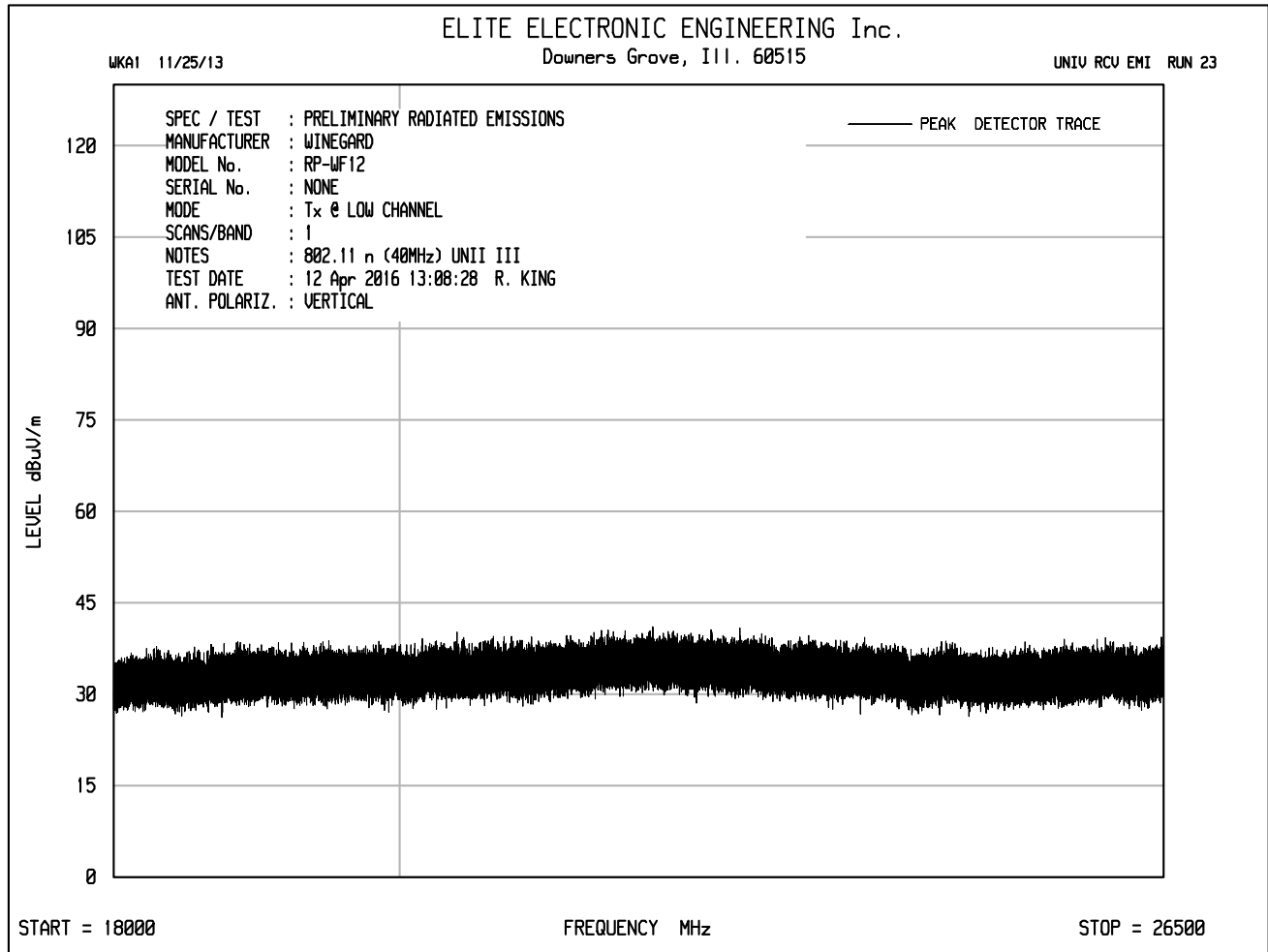


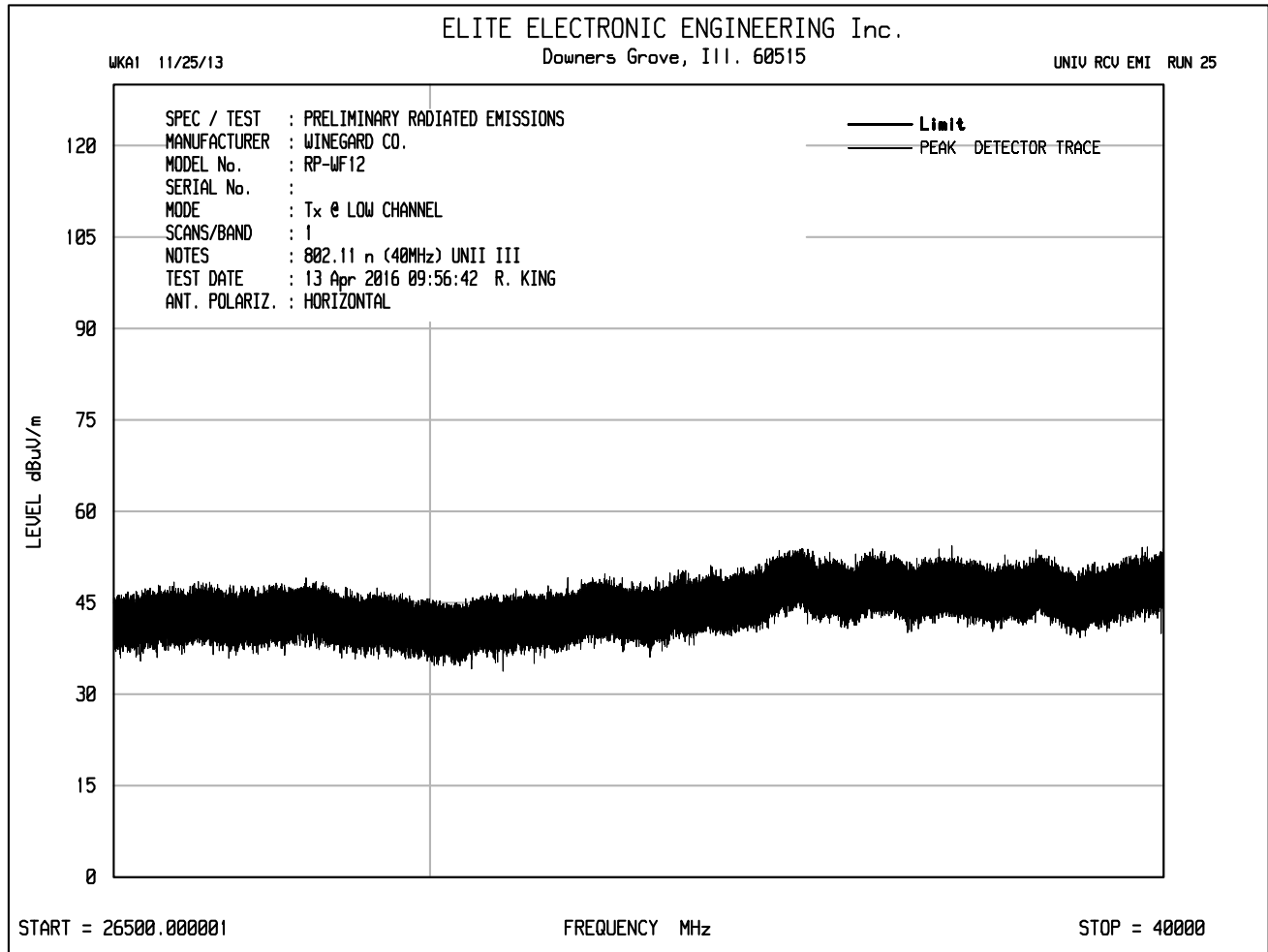


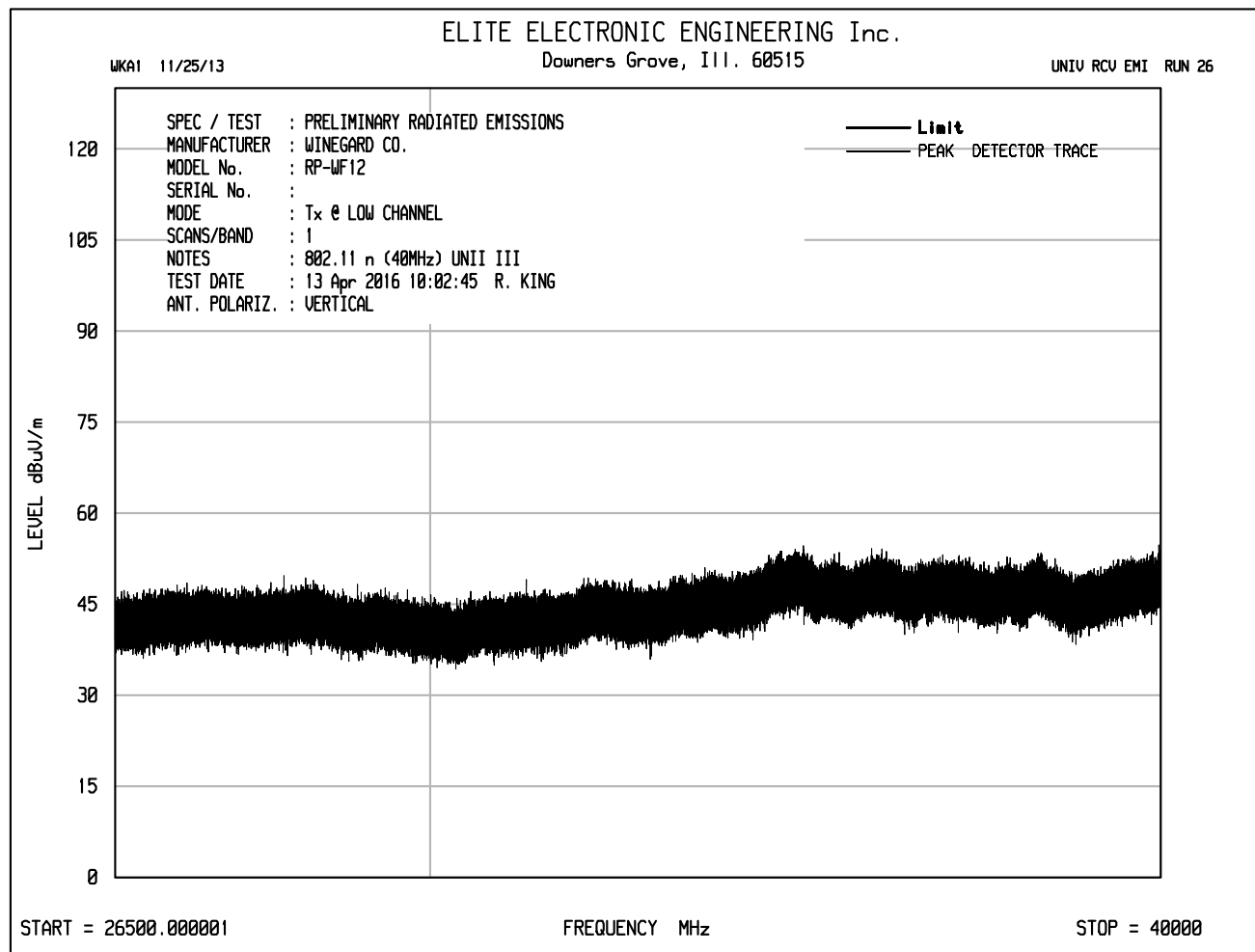


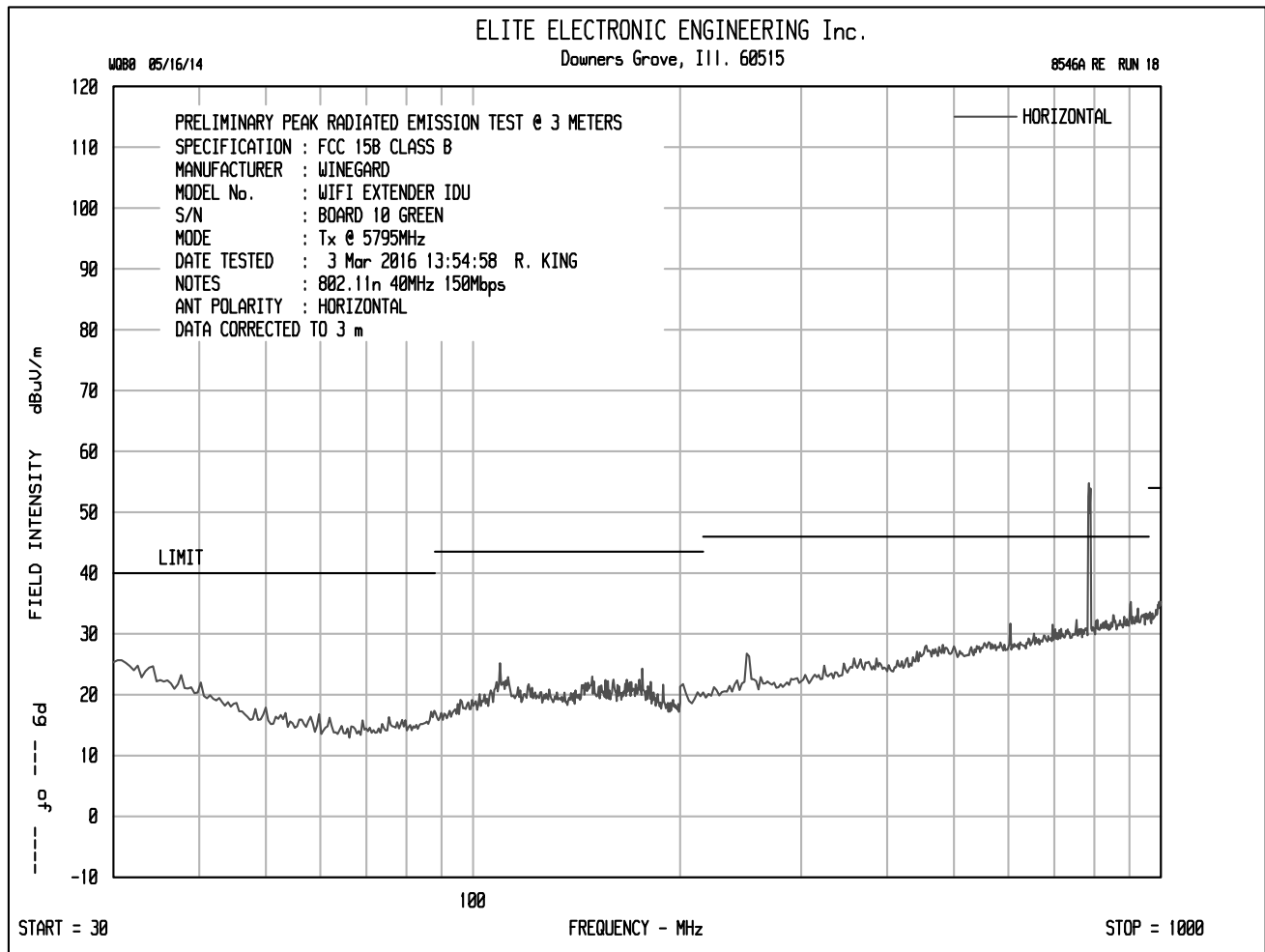


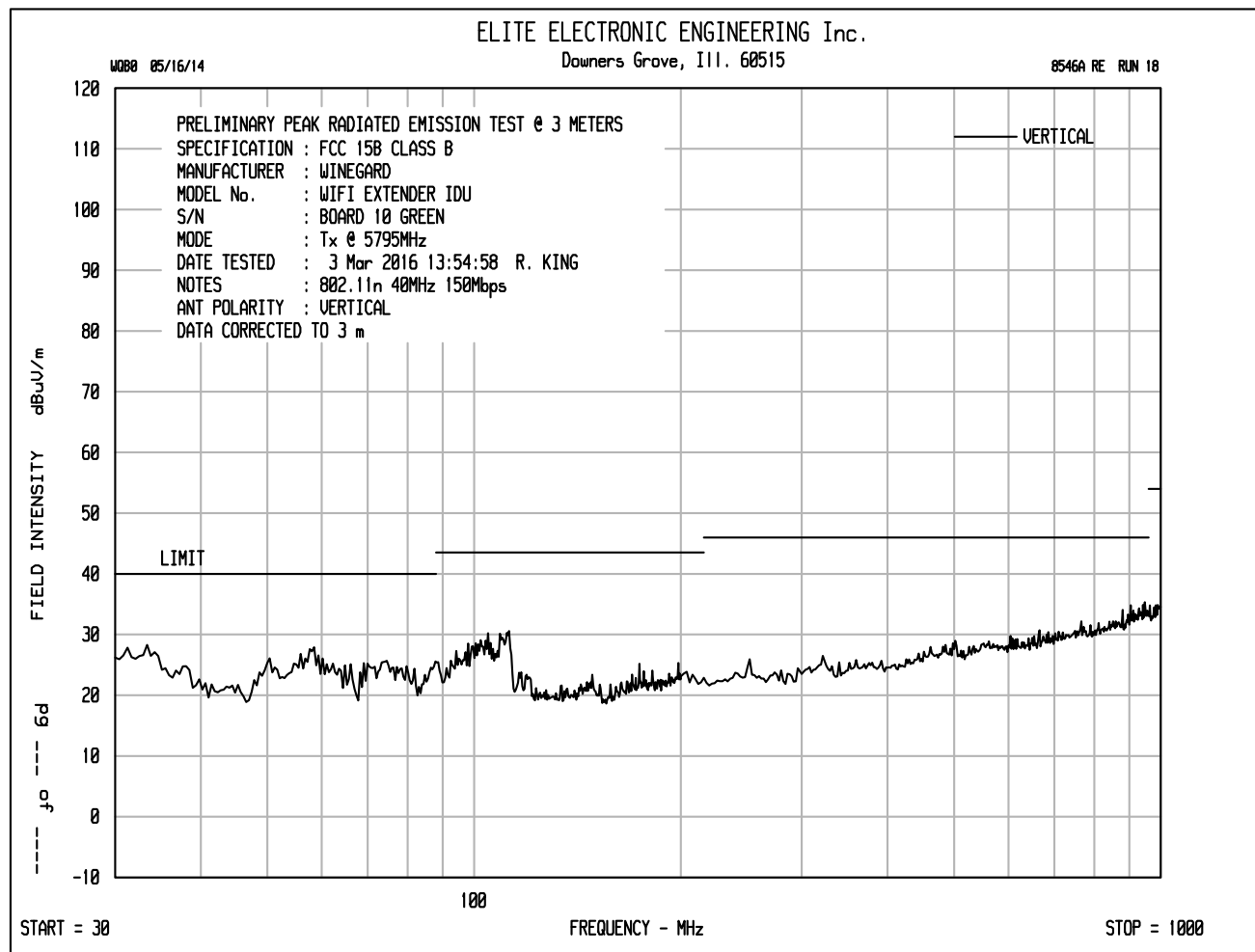














ETR No.

8546A

DATA SHEET

TEST NO. 18

RADIATED QP EMISSION MEASUREMENTS in a 3 m SEMI-ANECHOIC ROOM

SPECIFICATION : FCC 15B CLASS B

MANUFACTURER : WINEGARD

MODEL NO. : WIFI EXTENDER IDU

SERIAL NO. : BOARD 10 GREEN

TEST MODE : Tx @ 5795MHz

NOTES : 802.11n 40MHz 150Mbps

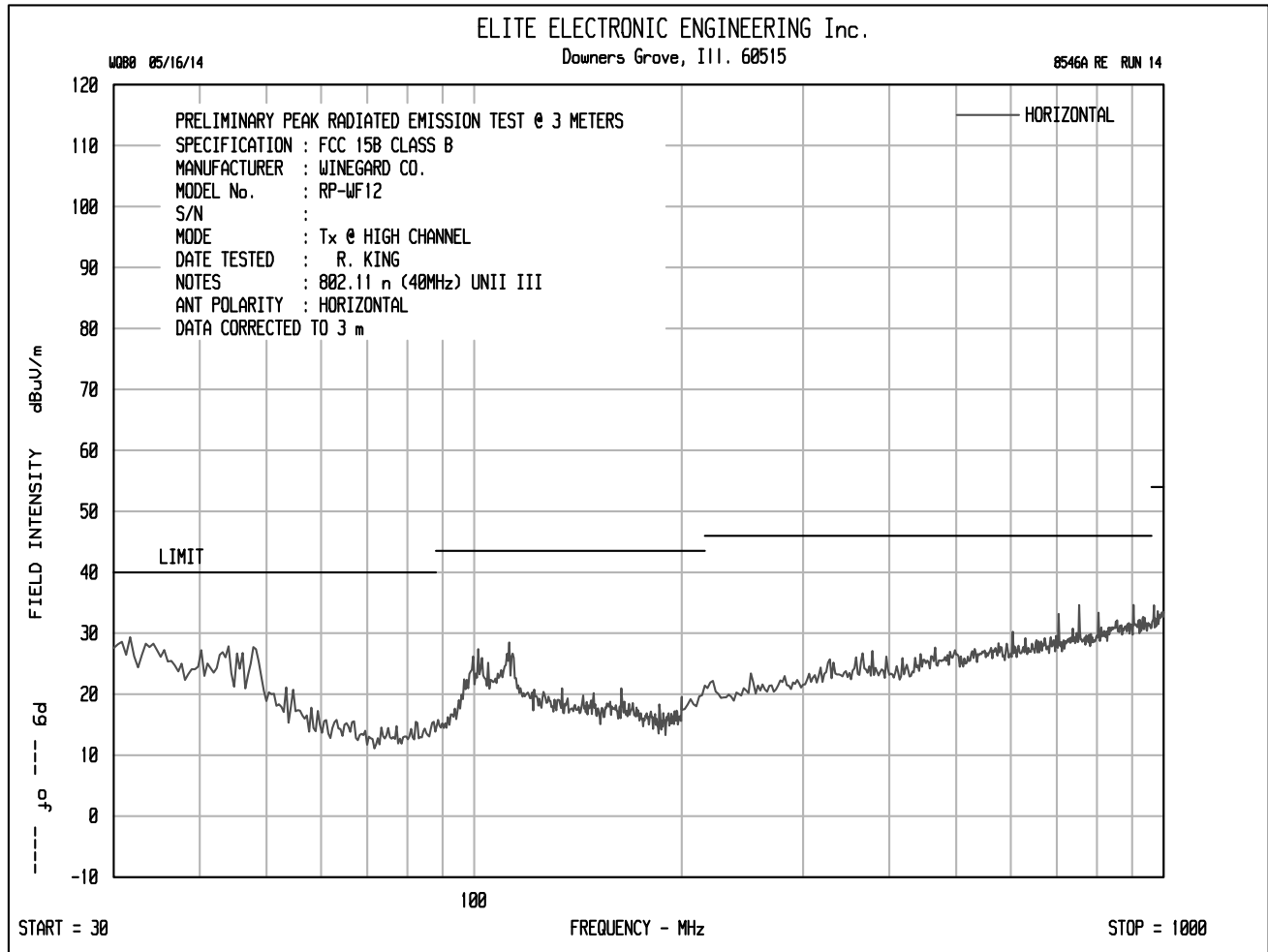
TEST DATE : 3 Mar 2016 13:54:58

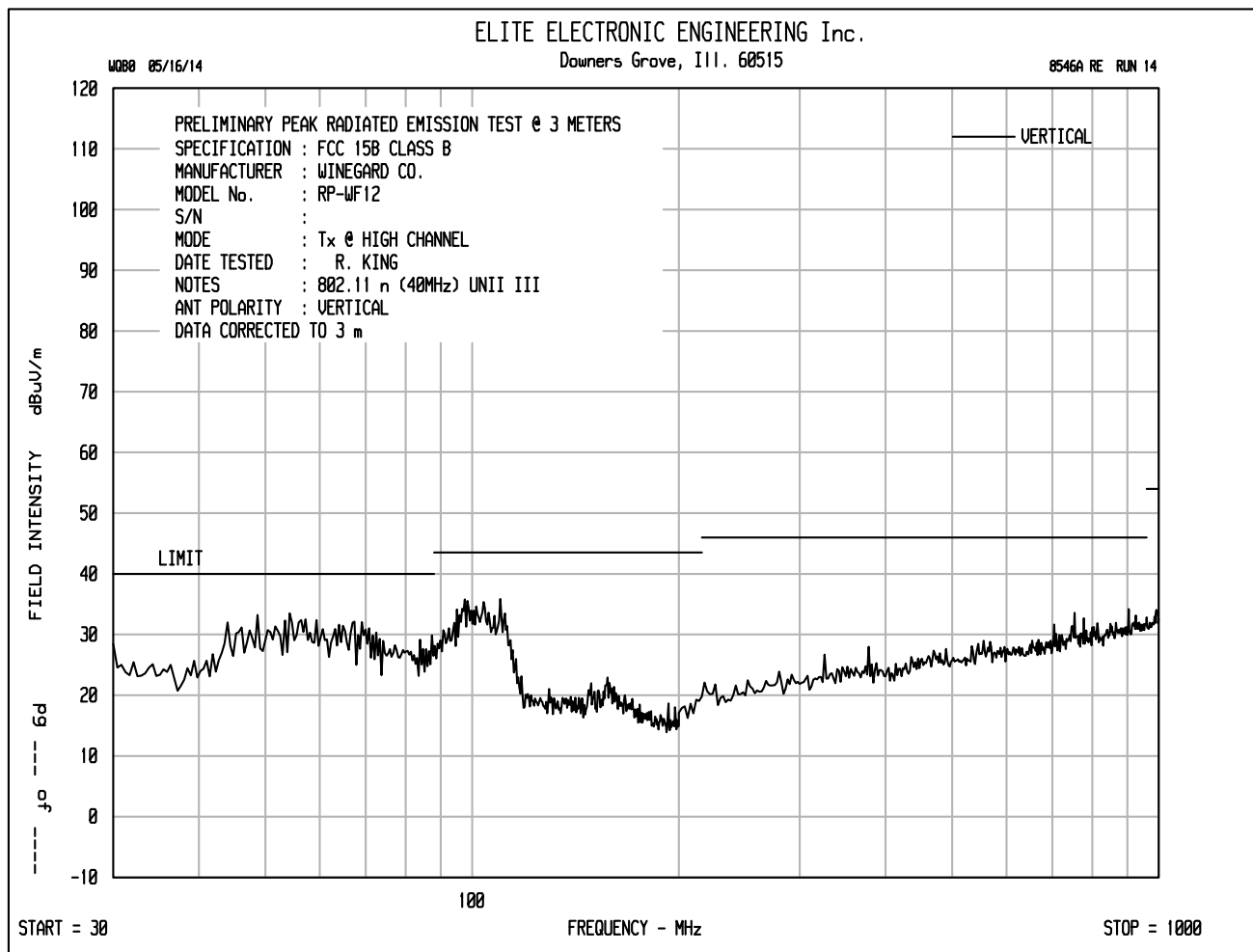
TEST DISTANCE : 3 m

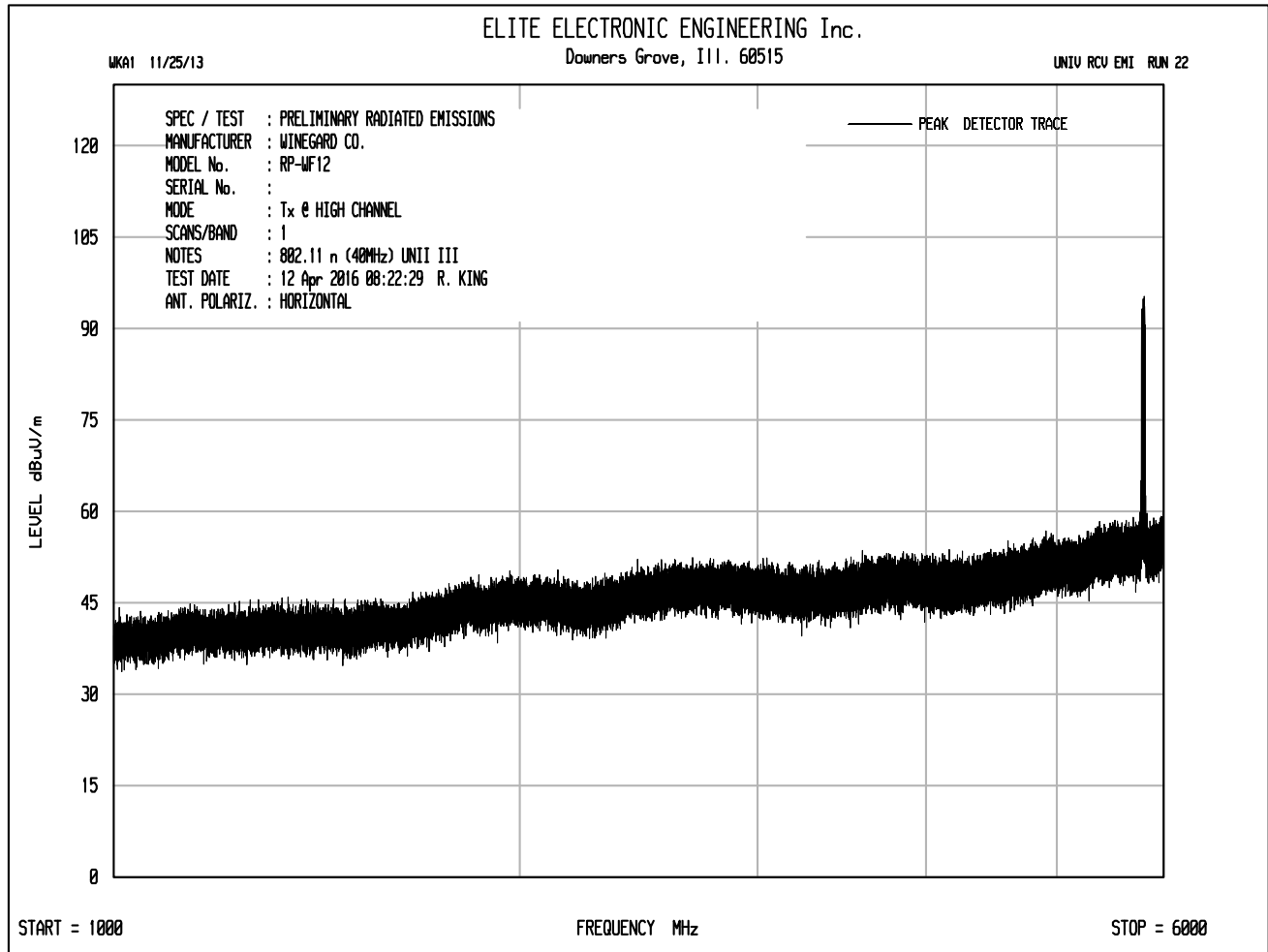
FREQUENCY	QP	ANT	CBL	EXT	DIST	TOTAL	QP	AZ	ANT	
MHz	READING	FAC	FAC	ATTN	FAC	dBuV/m	LIMIT	deg	HT	ANT
	dBuV	dB	dB	dB	dB		dBuV/m		cm	POL
33.45	-3.3	22.0	.5	0.0	0.0	19.2	40.0	225	120	V
87.62	8.5	14.6	.5	0.0	0.0	23.6	40.0	225	120	V
109.57	11.8	18.0	.6	0.0	0.0	30.3	43.5	180	121	V
142.70	-.7	17.0	.8	0.0	0.0	17.0	43.5	135	120	V
146.65	1.6	16.6	.8	0.0	0.0	19.0	43.5	135	120	V
176.02	2.6	15.6	.9	0.0	0.0	19.2	43.5	180	340	V
197.51	4.3	15.1	1.0	0.0	0.0	20.4	43.5	135	120	V
320.31	-.5	19.6	1.1	0.0	0.0	20.3	46.0	135	200	V
462.05	-6.4	23.1	1.5	0.0	0.0	18.1	46.0	315	340	H
498.13	-6.1	23.5	1.5	0.0	0.0	18.9	46.0	225	120	V
600.02	3.7	24.7	1.5	0.0	0.0	29.9	46.0	225	200	H
783.47	-5.4	25.8	2.0	0.0	0.0	22.4	46.0	270	340	H
940.26	-.9	27.1	2.0	0.0	0.0	28.1	46.0	135	200	V

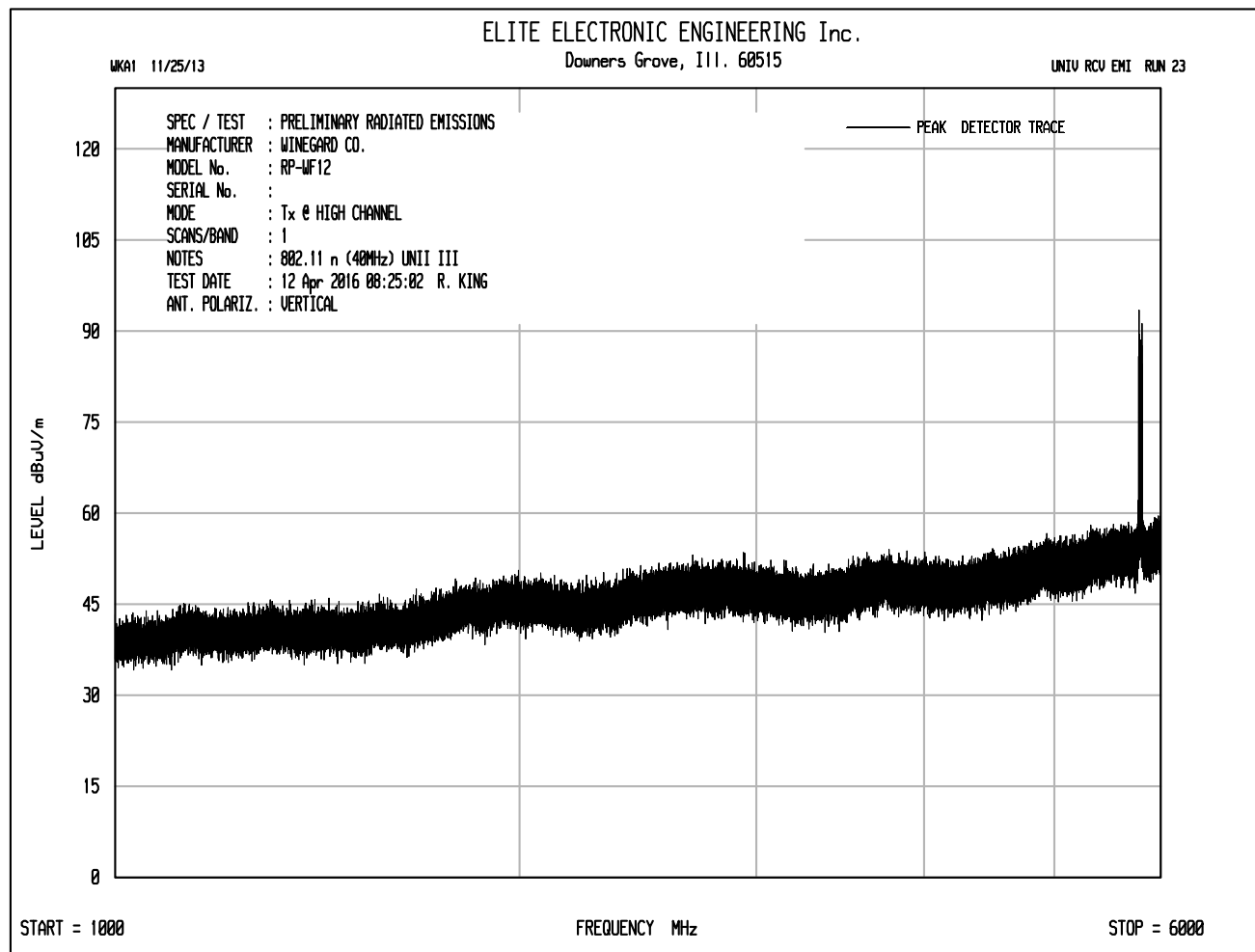
QP TESTS WERE PREMATURELY ABORTED

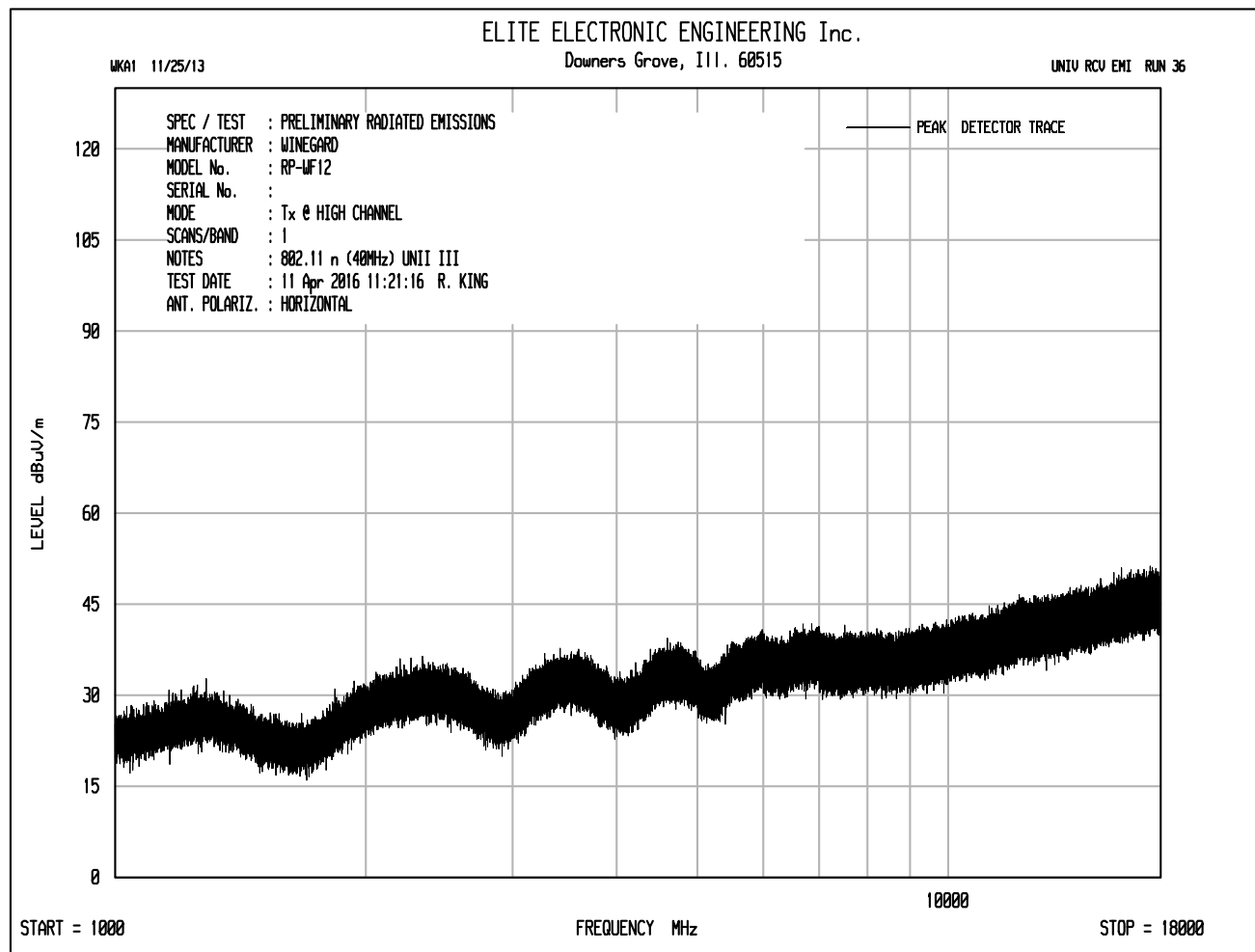
pg ____ of ____ tested by: _____
R. KING

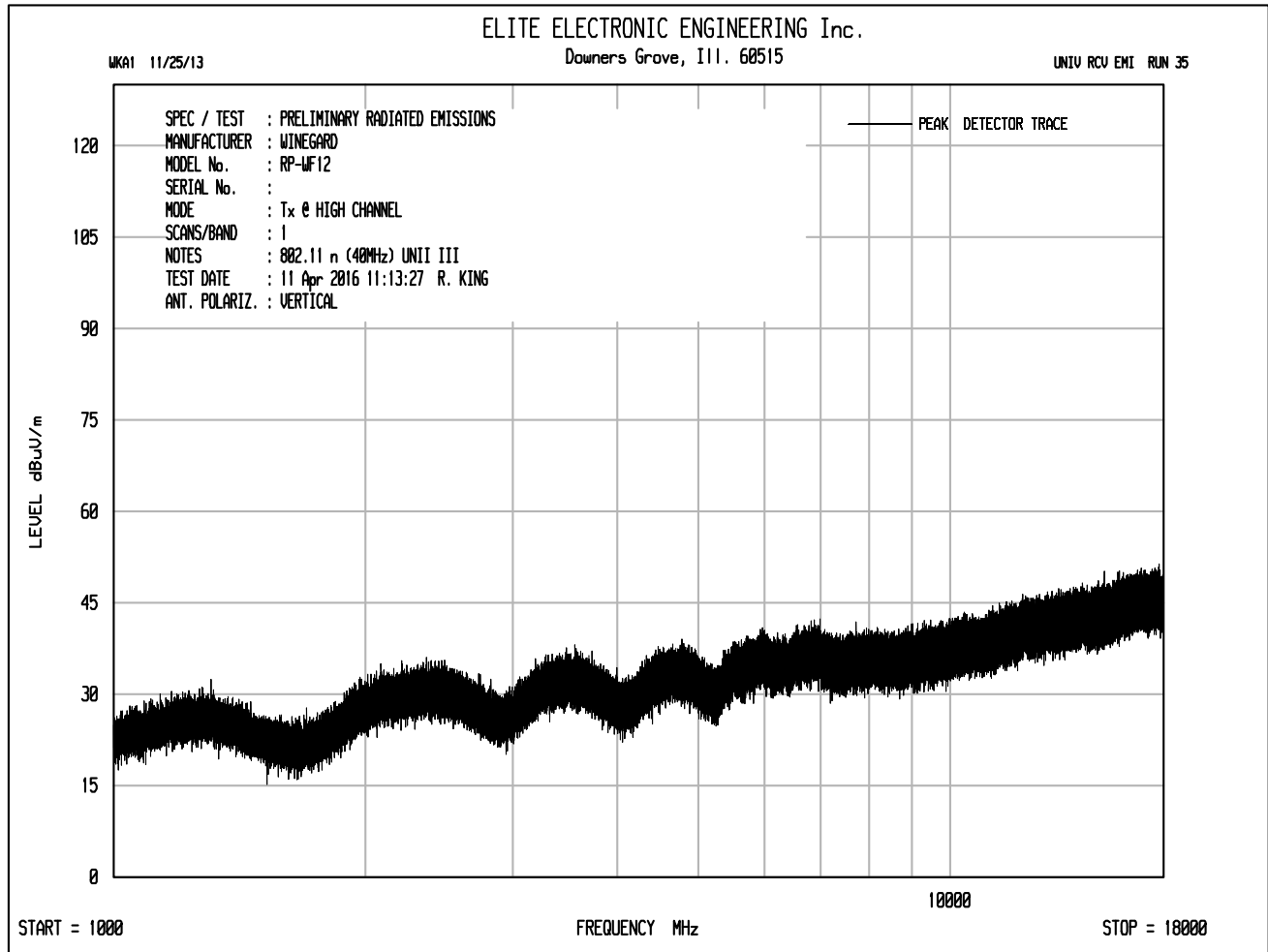


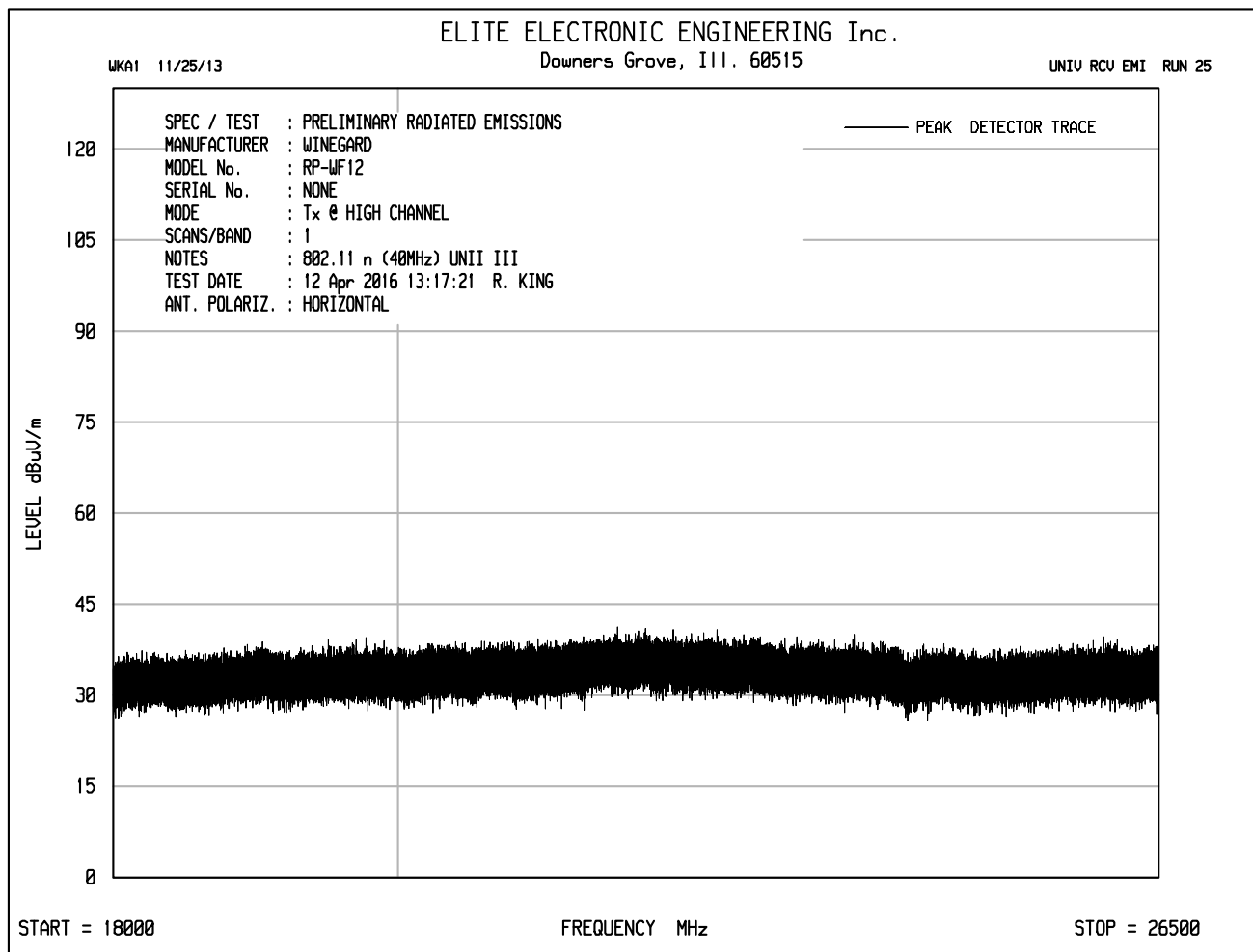


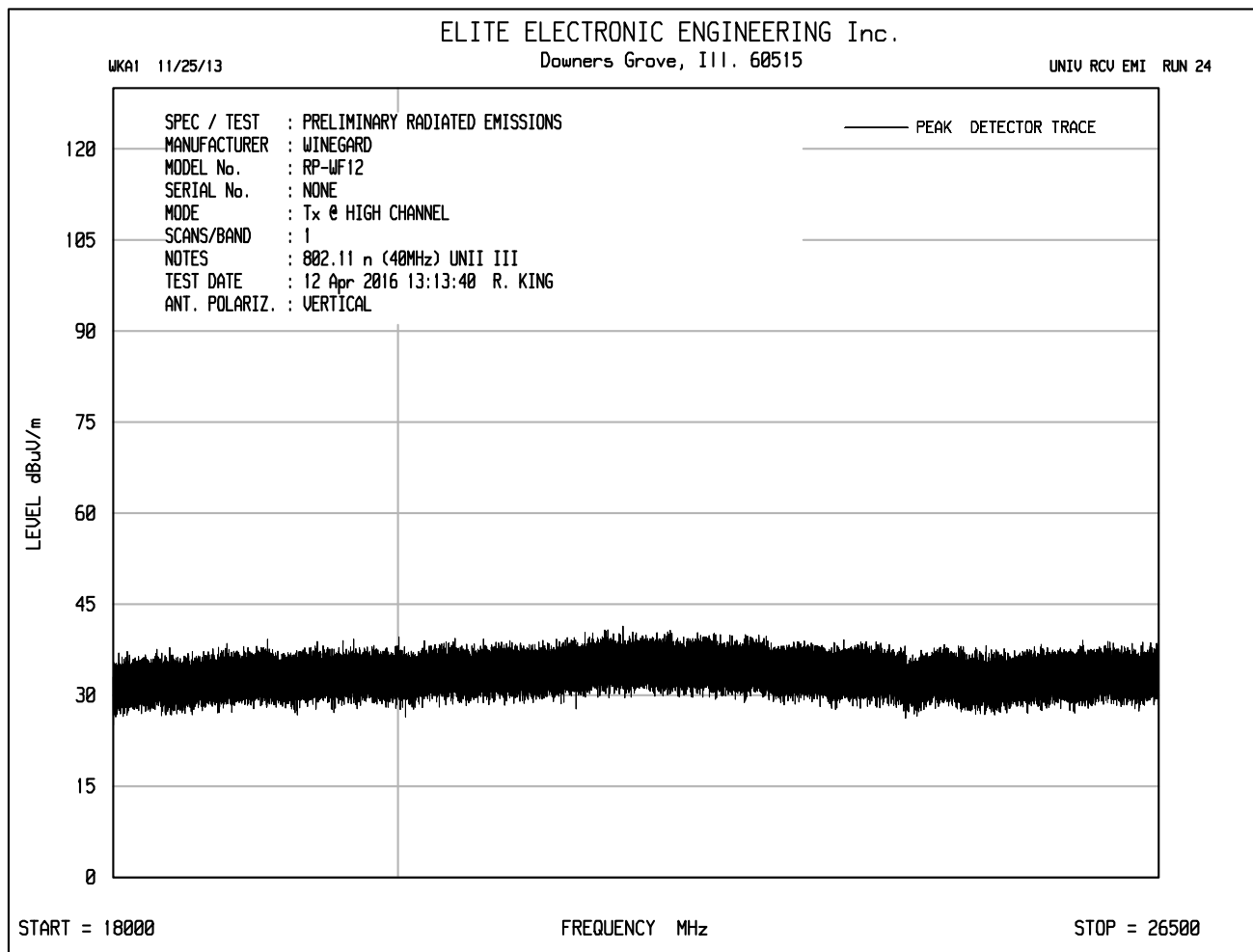


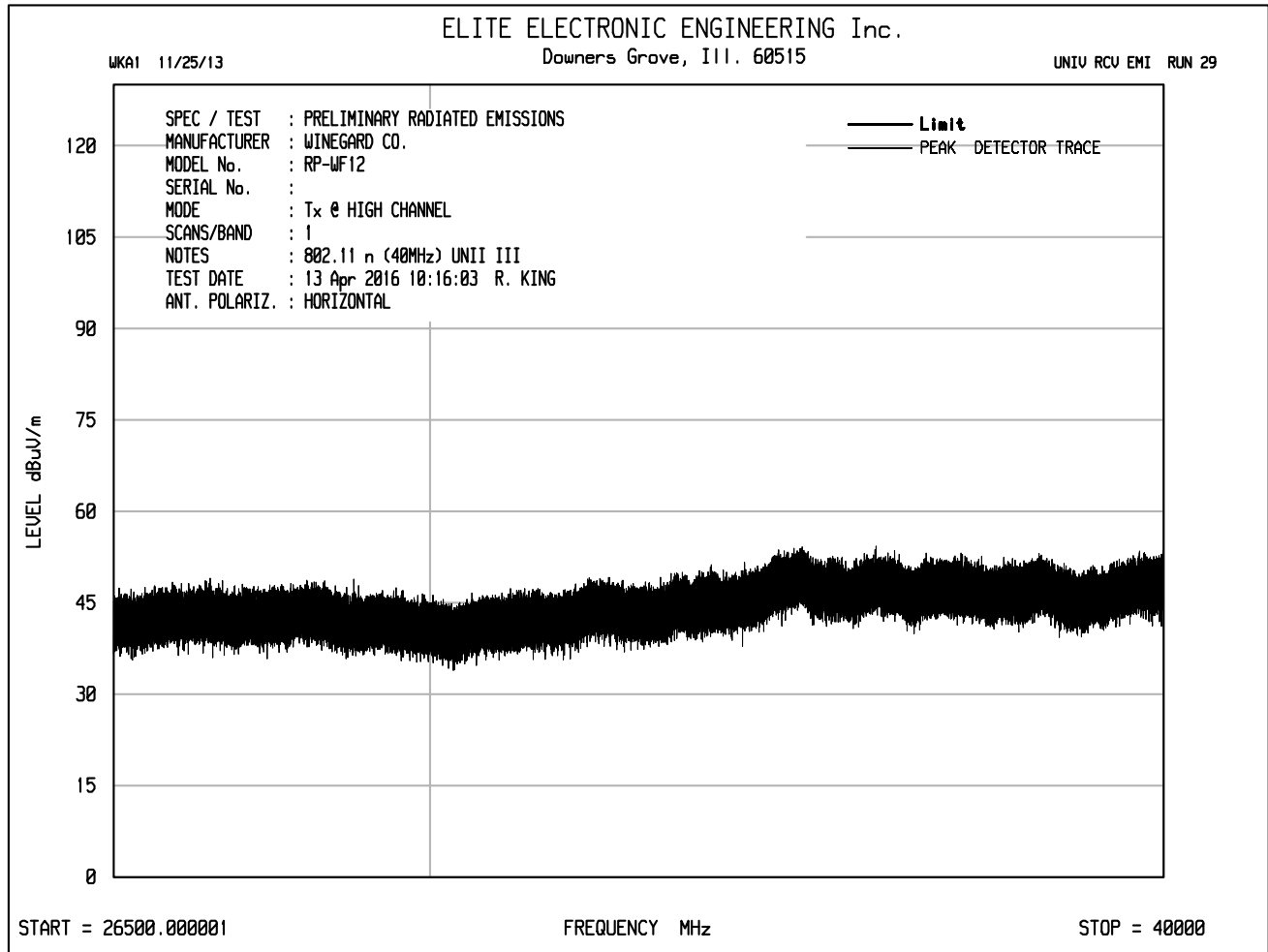


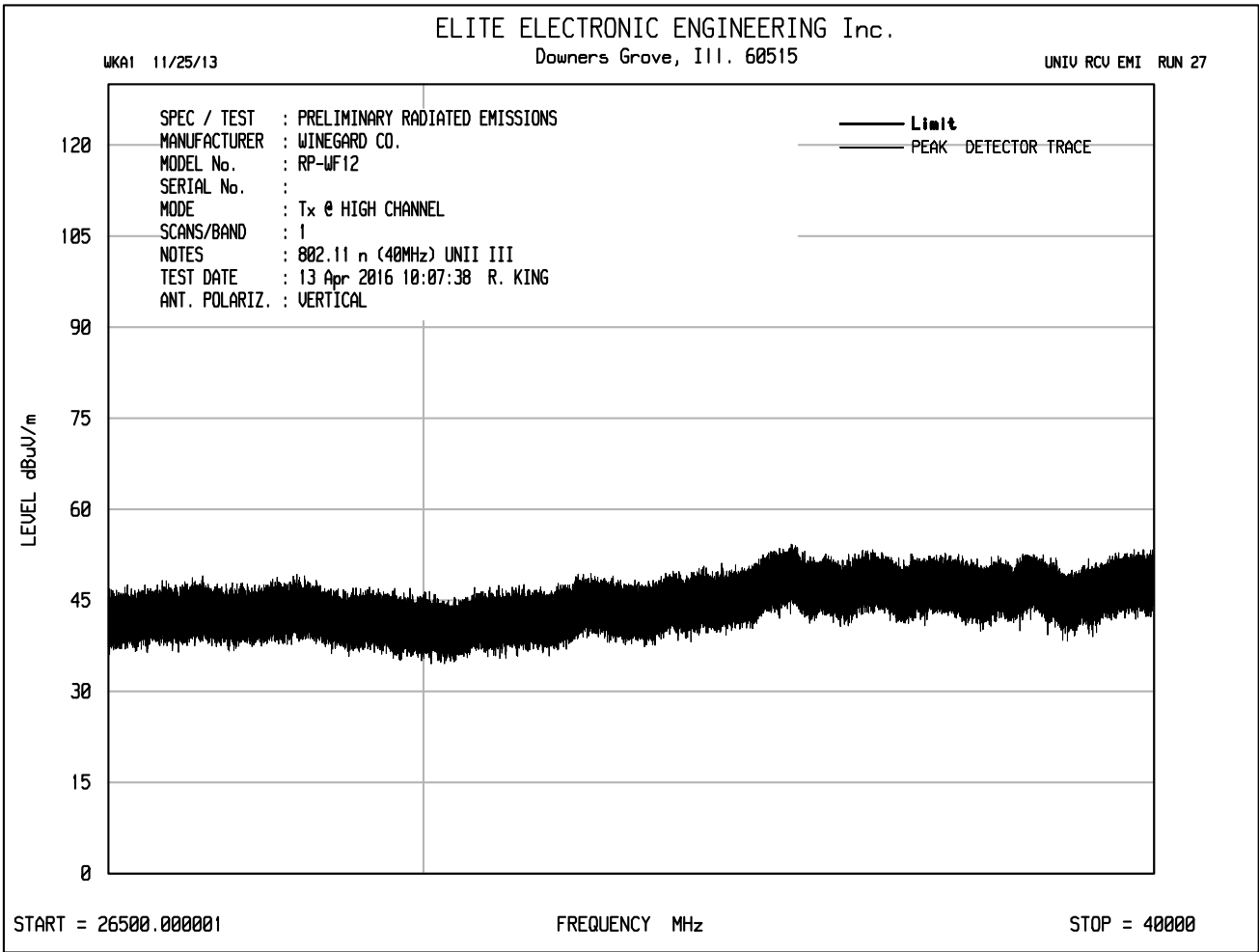














Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5180MHz, 802.11ac, UNII I
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
10360.00	H	46.8	*	7.2	37.5	-39.2	52.3	410.4	5000.0	-21.7
10360.00	V	46.8	*	7.2	37.5	-39.2	52.3	410.4	5000.0	-21.7
15540.00	H	45.8	*	9.0	40.9	-37.7	58.0	793.1	5000.0	-16.0
15540.00	V	45.9	*	9.0	40.9	-37.7	58.1	801.4	5000.0	-15.9
20720.00	H	34.5	*	1.7	40.1	-28.4	47.9	247.3	5000.0	-26.1
20720.00	V	34.5	*	1.7	40.1	-28.4	47.9	247.3	5000.0	-26.1
25900.00	H	32.3	*	1.7	40.7	-29.7	44.9	176.6	5000.0	-29.0
25900.00	V	32.3	*	1.7	40.7	-29.7	44.9	176.6	5000.0	-29.0
31080.00	H	42.9	*	1.9	43.9	-31.5	57.2	723.1	5000.0	-16.8
31080.00	V	42.9	*	1.9	43.9	-31.5	57.2	723.1	5000.0	-16.8
36260.00	H	40.0	*	2.1	44.1	-27.1	59.1	896.5	5000.0	-14.9
36260.00	V	40.0	*	2.1	44.1	-27.1	59.1	896.5	5000.0	-14.9

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5180MHz, 802.11ac, UNII I
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
10360.00	H	34.8	*	7.2	37.5	-39.2	40.3	103.2	500.0	-13.7
10360.00	V	34.8	*	7.2	37.5	-39.2	40.3	103.2	500.0	-13.7
15540.00	H	33.2	*	9.0	40.9	-37.7	45.4	186.1	500.0	-8.6
15540.00	V	33.2	*	9.0	40.9	-37.7	45.4	186.1	500.0	-8.6
20720.00	H	22.3	*	1.7	40.1	-28.4	35.7	60.6	500.0	-18.3
20720.00	V	22.3	*	1.7	40.1	-28.4	35.7	61.0	500.0	-18.3
25900.00	H	21.3	*	1.7	40.7	-29.7	33.9	49.8	500.0	-20.0
25900.00	V	21.3	*	1.7	40.7	-29.7	33.9	49.8	500.0	-20.0
31080.00	H	29.2	*	1.9	43.9	-31.5	43.5	150.0	500.0	-10.5
31080.00	V	29.2	*	1.9	43.9	-31.5	43.5	150.0	500.0	-10.5
36260.00	H	27.2	*	2.1	44.1	-27.1	46.3	205.4	500.0	-7.7
36260.00	V	27.2	*	2.1	44.1	-27.1	46.3	205.4	500.0	-7.7

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5200MHz, 802.11ac, UNII I
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
10400.00	H	46.8	*	7.2	37.5	-39.2	52.3	413.0	5000.0	-21.7
10400.00	V	46.8	*	7.2	37.5	-39.2	52.3	413.0	5000.0	-21.7
15600.00	H	46.2	*	9.0	41.1	-37.7	58.6	854.2	5000.0	-15.3
15600.00	V	44.9	*	9.0	41.1	-37.7	57.3	736.3	5000.0	-16.6
20800.00	H	35.1	*	1.7	40.1	-28.3	48.6	268.7	5000.0	-25.4
20800.00	V	35.1	*	1.7	40.1	-28.3	48.6	268.7	5000.0	-25.4
26000.00	H	33.3	*	1.7	40.7	-29.8	45.9	196.8	5000.0	-28.1
26000.00	V	33.3	*	1.7	40.7	-29.8	45.9	196.8	5000.0	-28.1
31200.00	H	41.3	*	1.9	43.9	-32.5	54.6	538.4	5000.0	-19.4
31200.00	V	41.3	*	1.9	43.9	-32.5	54.6	538.4	5000.0	-19.4
36400.00	H	40.0	*	2.1	44.1	-27.3	58.9	878.3	5000.0	-15.1
36400.00	V	40.0	*	2.1	44.1	-27.3	58.9	878.3	5000.0	-15.1

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5200MHz, 802.11ac, UNII I
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
10400.00	H	34.6	*	7.2	37.5	-39.2	40.1	101.4	500.0	-13.9
10400.00	V	34.6	*	7.2	37.5	-39.2	40.1	101.4	500.0	-13.9
15600.00	H	32.9	*	9.0	41.1	-37.7	45.3	184.7	500.0	-8.6
15600.00	V	33.7	*	9.0	41.1	-37.7	46.1	202.6	500.0	-7.8
20800.00	H	21.9	*	1.7	40.1	-28.3	35.4	58.9	500.0	-18.6
20800.00	V	21.9	*	1.7	40.1	-28.3	35.4	58.9	500.0	-18.6
26000.00	H	22.0	*	1.7	40.7	-29.8	34.6	53.6	500.0	-19.4
26000.00	V	22.0	*	1.7	40.7	-29.8	34.6	53.6	500.0	-19.4
31200.00	H	29.0	*	1.9	43.9	-32.5	42.3	130.7	500.0	-11.7
31200.00	V	29.0	*	1.9	43.9	-32.5	42.3	130.7	500.0	-11.7
36400.00	H	27.0	*	2.1	44.1	-27.3	45.9	196.6	500.0	-8.1
36400.00	V	27.0	*	2.1	44.1	-27.3	45.9	196.6	500.0	-8.1

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5240MHz, 802.11ac, UNII I
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
10480.00	H	46.8	*	7.3	37.6	-39.2	52.4	418.2	5000.0	-21.6
10480.00	V	46.8	*	7.3	37.6	-39.2	52.4	418.2	5000.0	-21.6
15720.00	H	45.4		9.0	41.5	-37.6	58.3	820.0	5000.0	-15.7
15720.00	V	44.6	*	9.0	41.5	-37.6	57.5	752.1	5000.0	-16.5
20960.00	H	34.2	*	1.7	40.0	-28.5	47.4	233.5	5000.0	-26.6
20960.00	V	34.2	*	1.7	40.0	-28.5	47.4	233.5	5000.0	-26.6
26200.00	H	33.0	*	1.7	40.7	-30.0	45.4	186.1	5000.0	-28.6
26200.00	V	33.0	*	1.7	40.7	-30.0	45.4	186.1	5000.0	-28.6
31440.00	H	41.3	*	1.9	43.9	-31.5	55.6	602.8	5000.0	-18.4
31440.00	V	41.3	*	1.9	43.9	-31.5	55.6	602.8	5000.0	-18.4
36680.00	H	40.0	*	2.1	44.1	-26.4	59.8	975.0	5000.0	-14.2
36680.00	V	40.0	*	2.1	44.1	-26.4	59.8	975.0	5000.0	-14.2

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5240MHz, 802.11ac, UNII I
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
10480.00	H	34.8	*	7.3	37.6	-39.2	40.4	105.1	500.0	-13.6
10480.00	V	34.8	*	7.3	37.6	-39.2	40.4	105.1	500.0	-13.6
15720.00	H	32.98	*	9.0	41.5	-37.6	45.9	196.5	500.0	-8.1
15720.00	V	33.0	*	9.0	41.5	-37.6	45.9	197.6	500.0	-8.1
20960.00	H	22.1	*	1.7	40.0	-28.5	35.3	58.4	500.0	-18.7
20960.00	V	22.1	*	1.7	40.0	-28.5	35.3	58.4	500.0	-18.7
26200.00	H	21.5	*	1.7	40.7	-30.0	33.9	49.5	500.0	-20.1
26200.00	V	21.5	*	1.7	40.7	-30.0	33.9	49.5	500.0	-20.1
31440.00	H	37.8	*	1.9	43.9	-31.5	52.1	402.9	500.0	-1.9
31440.00	V	37.8	*	1.9	43.9	-31.5	52.1	402.9	500.0	-1.9
36680.00	H	27.6	*	2.1	44.1	-26.4	47.4	233.9	500.0	-6.6
36680.00	V	27.6	*	2.1	44.1	-26.4	47.4	233.9	500.0	-6.6

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5180MHz, 802.11n, UNII I
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
10360.00	H	46.8	*	7.2	37.5	-39.2	52.3	410.4	5000.0	-21.7
10360.00	V	46.8	*	7.2	37.5	-39.2	52.3	410.4	5000.0	-21.7
15540.00	H	45.8	*	9.0	40.9	-37.7	58.0	793.1	5000.0	-16.0
15540.00	V	45.9	*	9.0	40.9	-37.7	58.1	801.4	5000.0	-15.9
20720.00	H	34.5	*	1.7	40.1	-28.4	47.9	247.3	5000.0	-26.1
20720.00	V	34.5	*	1.7	40.1	-28.4	47.9	247.3	5000.0	-26.1
25900.00	H	32.3	*	1.7	40.7	-29.7	44.9	176.6	5000.0	-29.0
25900.00	V	32.3	*	1.7	40.7	-29.7	44.9	176.6	5000.0	-29.0
31080.00	H	42.9	*	1.9	43.9	-31.5	57.2	723.1	5000.0	-16.8
31080.00	V	42.9	*	1.9	43.9	-31.5	57.2	723.1	5000.0	-16.8
36260.00	H	40.0	*	2.1	44.1	-27.1	59.1	896.5	5000.0	-14.9
36260.00	V	40.0	*	2.1	44.1	-27.1	59.1	896.5	5000.0	-14.9

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5180MHz, 802.11n, UNII I
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
10360.00	H	34.8	*	7.2	37.5	-39.2	40.3	103.2	500.0	-13.7
10360.00	V	34.8	*	7.2	37.5	-39.2	40.3	103.2	500.0	-13.7
15540.00	H	33.2	*	9.0	40.9	-37.7	45.4	186.1	500.0	-8.6
15540.00	V	33.2	*	9.0	40.9	-37.7	45.4	186.1	500.0	-8.6
20720.00	H	22.3	*	1.7	40.1	-28.4	35.7	60.6	500.0	-18.3
20720.00	V	22.3	*	1.7	40.1	-28.4	35.7	61.0	500.0	-18.3
25900.00	H	21.3	*	1.7	40.7	-29.7	33.9	49.8	500.0	-20.0
25900.00	V	21.3	*	1.7	40.7	-29.7	33.9	49.8	500.0	-20.0
31080.00	H	29.2	*	1.9	43.9	-31.5	43.5	150.0	500.0	-10.5
31080.00	V	29.2	*	1.9	43.9	-31.5	43.5	150.0	500.0	-10.5
36260.00	H	27.2	*	2.1	44.1	-27.1	46.3	205.4	500.0	-7.7
36260.00	V	27.2	*	2.1	44.1	-27.1	46.3	205.4	500.0	-7.7

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5200MHz, 802.11n, UNII I
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
10400.00	H	46.8	*	7.2	37.5	-39.2	52.3	413.0	5000.0	-21.7
10400.00	V	46.8	*	7.2	37.5	-39.2	52.3	413.0	5000.0	-21.7
15600.00	H	46.2	*	9.0	41.1	-37.7	58.6	854.2	5000.0	-15.3
15600.00	V	44.9	*	9.0	41.1	-37.7	57.3	736.3	5000.0	-16.6
20800.00	H	35.1	*	1.7	40.1	-28.3	48.6	268.7	5000.0	-25.4
20800.00	V	35.1	*	1.7	40.1	-28.3	48.6	268.7	5000.0	-25.4
26000.00	H	33.3	*	1.7	40.7	-29.8	45.9	196.8	5000.0	-28.1
26000.00	V	33.3	*	1.7	40.7	-29.8	45.9	196.8	5000.0	-28.1
31200.00	H	41.3	*	1.9	43.9	-32.5	54.6	538.4	5000.0	-19.4
31200.00	V	41.3	*	1.9	43.9	-32.5	54.6	538.4	5000.0	-19.4
36400.00	H	40.0	*	2.1	44.1	-27.3	58.9	878.3	5000.0	-15.1
36400.00	V	40.0	*	2.1	44.1	-27.3	58.9	878.3	5000.0	-15.1

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5200MHz, 802.11n, UNII I
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
10400.00	H	34.6	*	7.2	37.5	-39.2	40.1	101.4	500.0	-13.9
10400.00	V	34.6	*	7.2	37.5	-39.2	40.1	101.4	500.0	-13.9
15600.00	H	32.9	*	9.0	41.1	-37.7	45.3	184.7	500.0	-8.6
15600.00	V	33.7	*	9.0	41.1	-37.7	46.1	202.6	500.0	-7.8
20800.00	H	21.9	*	1.7	40.1	-28.3	35.4	58.9	500.0	-18.6
20800.00	V	21.9	*	1.7	40.1	-28.3	35.4	58.9	500.0	-18.6
26000.00	H	22.0	*	1.7	40.7	-29.8	34.6	53.6	500.0	-19.4
26000.00	V	22.0	*	1.7	40.7	-29.8	34.6	53.6	500.0	-19.4
31200.00	H	29.0	*	1.9	43.9	-32.5	42.3	130.7	500.0	-11.7
31200.00	V	29.0	*	1.9	43.9	-32.5	42.3	130.7	500.0	-11.7
36400.00	H	27.0	*	2.1	44.1	-27.3	45.9	196.6	500.0	-8.1
36400.00	V	27.0	*	2.1	44.1	-27.3	45.9	196.6	500.0	-8.1

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5240MHz, 802.11n, UNII I
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
10480.00	H	46.8	*	7.3	37.6	-39.2	52.4	418.2	5000.0	-21.6
10480.00	V	46.8	*	7.3	37.6	-39.2	52.4	418.2	5000.0	-21.6
15720.00	H	45.4		9.0	41.5	-37.6	58.3	820.0	5000.0	-15.7
15720.00	V	44.6	*	9.0	41.5	-37.6	57.5	752.1	5000.0	-16.5
20960.00	H	34.2	*	1.7	40.0	-28.5	47.4	233.5	5000.0	-26.6
20960.00	V	34.2	*	1.7	40.0	-28.5	47.4	233.5	5000.0	-26.6
26200.00	H	33.0	*	1.7	40.7	-30.0	45.4	186.1	5000.0	-28.6
26200.00	V	33.0	*	1.7	40.7	-30.0	45.4	186.1	5000.0	-28.6
31440.00	H	41.3	*	1.9	43.9	-31.5	55.6	602.8	5000.0	-18.4
31440.00	V	41.3	*	1.9	43.9	-31.5	55.6	602.8	5000.0	-18.4
36680.00	H	40.0	*	2.1	44.1	-26.4	59.8	975.0	5000.0	-14.2
36680.00	V	40.0	*	2.1	44.1	-26.4	59.8	975.0	5000.0	-14.2

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5240MHz, 802.11n, UNII I
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
10480.00	H	34.8	*	7.3	37.6	-39.2	40.4	105.1	500.0	-13.6
10480.00	V	34.8	*	7.3	37.6	-39.2	40.4	105.1	500.0	-13.6
15720.00	H	32.9	*	9.0	41.5	-37.6	45.9	196.5	500.0	-8.1
15720.00	V	33.0	*	9.0	41.5	-37.6	45.9	197.6	500.0	-8.1
20960.00	H	22.1	*	1.7	40.0	-28.5	35.3	58.4	500.0	-18.7
20960.00	V	22.1	*	1.7	40.0	-28.5	35.3	58.4	500.0	-18.7
26200.00	H	21.5	*	1.7	40.7	-30.0	33.9	49.5	500.0	-20.1
26200.00	V	21.5	*	1.7	40.7	-30.0	33.9	49.5	500.0	-20.1
31440.00	H	37.8	*	1.9	43.9	-31.5	52.1	402.9	500.0	-1.9
31440.00	V	37.8	*	1.9	43.9	-31.5	52.1	402.9	500.0	-1.9
36680.00	H	27.6	*	2.1	44.1	-26.4	47.4	233.9	500.0	-6.6
36680.00	V	27.6	*	2.1	44.1	-26.4	47.4	233.9	500.0	-6.6

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5785MHz, 802.11ac, UNII III
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth
Notes :

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
11570.00	H	60.7		7.8	38.6	-39.2	67.9	2486.0	5000.0	-6.1
11570.00	V	48.7	*	7.8	38.6	-39.2	55.9	624.5	5000.0	-18.1
17355.00	H	46.2	*	9.7	41.8	-37.7	60.0	998.0	5000.0	-14.0
17355.00	V	46.2	*	9.7	41.8	-37.7	60.0	998.0	5000.0	-14.0
23140.00	H	35.5	*	1.7	40.6	-29.8	48.0	252.2	5000.0	-25.9
23140.00	V	35.5	*	1.7	40.6	-29.8	48.0	252.2	5000.0	-25.9
28925.00	H	33.4	*	1.8	43.8	-29.8	49.1	286.5	5000.0	-24.8
28925.00	V	33.4	*	1.8	43.8	-29.8	49.1	286.5	5000.0	-24.8
34710.00	H	40.1	*	2.0	44.1	-26.7	59.4	934.8	5000.0	-14.6
34710.00	V	40.1	*	2.0	44.1	-26.7	59.4	934.8	5000.0	-14.6

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY Richard E. King :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5785MHz, 802.11ac, UNII III
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Total dBUV/m at 3m	Total uV/m at 3 m	Limit uV/m at 3 m	Margin (dB)
11570.00	H	41.3		7.8	38.6	-39.2	0.0	48.6	267.6	500.0	-5.4
11570.00	V	34.5	*	7.8	38.6	-39.2	0.0	41.7	121.6	500.0	-12.3
17355.00	H	33.0	*	9.7	41.8	-37.7	0.0	46.8	218.3	500.0	-7.2
17355.00	V	33.0	*	9.7	41.8	-37.7	0.0	46.8	218.3	500.0	-7.2
23140.00	H	22.6	*	1.7	40.6	-29.8	0.0	35.1	57.1	500.0	-18.9
23140.00	V	22.6	*	1.7	40.6	-29.8	0.0	35.1	57.1	500.0	-18.9
28925.00	H	29.0	*	1.8	43.8	-29.8	0.0	44.7	172.6	500.0	-9.2
28925.00	V	29.0	*	1.8	43.8	-29.8	0.0	44.7	172.6	500.0	-9.2
34710.00	H	27.0	*	2.0	44.1	-26.7	0.0	46.3	206.9	500.0	-7.7
34710.00	V	27.0	*	2.0	44.1	-26.7	0.0	46.3	206.9	500.0	-7.7

Average Total (dBUV/m) = Meter Reading (dBUV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBUV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5825MHz, 802.11ac, UNII III
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
11650.00	H	54.2	*	7.8	38.7	-39.2	61.5	1189.4	5000.0	-12.5
11650.00	V	54.7	*	7.8	38.7	-39.2	62.0	1262.8	5000.0	-12.0
17475.00	H	46.0	*	9.7	41.6	-37.8	59.6	952.1	5000.0	-14.4
17475.00	V	46.0	*	9.7	41.6	-37.8	59.6	952.1	5000.0	-14.4
23300.00	H	35.3	*	1.7	40.6	-29.5	48.1	253.8	5000.0	-25.9
23300.00	V	35.3	*	1.7	40.6	-29.5	48.1	253.8	5000.0	-25.9
29125.00	H	41.0	*	1.8	43.8	-29.9	56.7	681.1	5000.0	-17.3
29125.00	V	41.0	*	1.8	43.8	-29.9	56.7	681.1	5000.0	-17.3
34950.00	H	40.0	*	2.0	44.1	-27.7	58.4	833.8	5000.0	-15.6
34950.00	V	40.0	*	2.0	44.1	-27.7	58.4	833.8	5000.0	-15.6

Peak Total (dBuV/m) = Meter Reading (dBuV) including MIMO + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5825MHz, 802.11ac, UNII III
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
11650.00	H	41.2	*	7.8	38.7	-39.2	48.5	267.2	500.0	-5.4
11650.00	V	39.7	*	7.8	38.7	-39.2	47.0	223.8	500.0	-7.0
17475.00	H	33.0	*	9.7	41.6	-37.8	46.6	213.2	500.0	-7.4
17475.00	V	33.0	*	9.7	41.6	-37.8	46.6	213.2	500.0	-7.4
23300.00	H	22.1	*	1.7	40.6	-29.5	34.9	55.5	500.0	-19.1
23300.00	V	22.1	*	1.7	40.6	-29.5	34.9	55.5	500.0	-19.1
29125.00	H	21.0	*	1.8	43.8	-29.9	36.7	68.1	500.0	-17.3
29125.00	V	21.0	*	1.8	43.8	-29.9	36.7	68.1	500.0	-17.3
34950.00	H	27.5	*	2.0	44.1	-27.7	45.9	197.7	500.0	-8.1
34950.00	V	27.5	*	2.0	44.1	-27.7	45.9	197.7	500.0	-8.1

Average Total (dBuV/m) = Meter Reading (dBuV) including MIMO + Cable Factor (dB) + Antenna Factor (dB)
+ Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5745MHz, 802.11ac, UNII III
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
11490.00	H	54.4	*	7.8	38.5	-39.2	61.5	1187.5	5000.0	-12.5
11490.00	V	55.0	*	7.8	38.5	-39.2	62.1	1273.9	5000.0	-11.9
17235.00	H	45.8	*	9.6	42.0	-37.7	59.8	975.7	5000.0	-14.2
17235.00	V	45.8	*	9.6	42.0	-37.7	59.8	975.7	5000.0	-14.2
22980.00	H	35.6	*	1.7	40.6	-29.9	48.0	251.2	5000.0	-26.0
22980.00	V	35.6	*	1.7	40.6	-29.9	48.0	251.4	5000.0	-26.0
28725.00	H	33.2	*	1.8	43.8	-29.2	49.6	302.2	5000.0	-24.4
28725.00	V	33.2	*	1.8	43.8	-29.2	49.6	302.2	5000.0	-24.4
34470.00	H	40.0	*	2.0	44.1	-27.5	58.5	841.7	5000.0	-15.5
34470.00	V	40.0	*	2.0	44.1	-27.5	58.5	841.7	5000.0	-15.5

Peak Total (dBuV/m) = Meter Reading (dBuV) including MIMO + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY Richard E. King :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5745MHz, 802.11ac, UNII III
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
11490.00	H	41.8	*	7.8	38.5	-39.2	48.8	276.5	500.0	-5.1
11490.00	V	41.0	*	7.8	38.5	-39.2	48.0	251.9	500.0	-6.0
17235.00	H	33.00	*	9.6	42.0	-37.7	47.0	223.5	500.0	-7.0
17235.00	V	33.0	*	9.6	42.0	-37.7	47.0	223.5	500.0	-7.0
22980.00	H	23.0	*	1.7	40.6	-29.9	35.4	59.0	500.0	-18.6
22980.00	V	23.0	*	1.7	40.6	-29.9	35.4	59.0	500.0	-18.6
28725.00	H	21.0	*	1.8	43.8	-29.2	37.4	74.2	500.0	-16.6
28725.00	V	21.0	*	1.8	43.8	-29.2	37.4	74.2	500.0	-16.6
34470.00	H	27.0	*	2.0	44.1	-27.5	45.5	188.4	500.0	-8.5
34470.00	V	27.0	*	2.0	44.1	-27.5	45.5	188.4	500.0	-8.5

Average Total (dBuV/m) = Meter Reading (dBuV) including MIMO + Cable Factor (dB) + Antenna Factor (dB)
+ Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5745MHz, 802.11n, UNII III
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBUV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
11490.00	H	49.0	*	7.8	38.5	-39.2	56.1	639.2	5000.0	-17.9
11490.00	V	46.3	*	7.8	38.5	-39.2	53.4	465.7	5000.0	-20.6
17235.00	H	46.1	*	9.6	42.0	-37.7	60.1	1009.9	5000.0	-13.9
17235.00	V	46.1	*	9.6	42.0	-37.7	60.1	1009.9	5000.0	-13.9
22980.00	H	35.5	*	1.7	40.6	-29.9	47.9	247.7	5000.0	-26.1
22980.00	V	35.5	*	1.7	40.6	-29.9	47.9	248.0	5000.0	-26.1
28725.00	H	33.8	*	1.8	43.8	-29.2	50.2	323.8	5000.0	-23.8
28725.00	V	33.8	*	1.8	43.8	-29.2	50.2	323.8	5000.0	-23.8
34470.00	H	41.2	*	2.0	44.1	-27.5	59.7	966.4	5000.0	-14.3
34470.00	V	41.2	*	2.0	44.1	-27.5	59.7	966.4	5000.0	-14.3

Peak Total (dBUV/m) = Meter Reading (dBUV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBUV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5745MHz, 802.11n, UNII III
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
11490.00	H	40.8	*	7.8	38.5	-39.2	47.9	248.7	500.0	-6.1
11490.00	V	34.0	*	7.8	38.5	-39.2	41.1	113.5	500.0	-12.9
17235.00	H	33.80	*	9.6	42.0	-37.7	47.8	245.1	500.0	-6.2
17235.00	V	33.8	*	9.6	42.0	-37.7	47.8	245.1	500.0	-6.2
22980.00	H	22.9	*	1.7	40.6	-29.9	35.3	58.2	500.0	-18.7
22980.00	V	22.9	*	1.7	40.6	-29.9	35.3	58.2	500.0	-18.7
28725.00	H	21.0	*	1.8	43.8	-29.2	37.4	74.2	500.0	-16.6
28725.00	V	21.0	*	1.8	43.8	-29.2	37.4	74.2	500.0	-16.6
34470.00	H	27.0	*	2.0	44.1	-27.5	45.5	188.4	500.0	-8.5
34470.00	V	27.0	*	2.0	44.1	-27.5	45.5	188.4	500.0	-8.5

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5785MHz, 802.11n, UNII III
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
11570.00	H	55.1	*	7.8	38.6	-39.2	62.3	1298.7	5000.0	-11.7
11570.00	V	51.3	*	7.8	38.6	-39.2	58.5	842.4	5000.0	-15.5
17355.00	H	46.0	*	9.7	41.8	-37.7	59.8	975.3	5000.0	-14.2
17355.00	V	46.0	*	9.7	41.8	-37.7	59.8	975.3	5000.0	-14.2
23140.00	H	34.8	*	1.7	40.6	-29.8	47.3	231.6	5000.0	-26.7
23140.00	V	34.8	*	1.7	40.6	-29.8	47.3	231.6	5000.0	-26.7
28925.00	H	32.6	*	1.8	43.8	-29.8	48.3	261.3	5000.0	-25.6
28925.00	V	32.6	*	1.8	43.8	-29.8	48.3	261.3	5000.0	-25.6
34710.00	H	40.0	*	2.0	44.1	-26.7	59.3	924.1	5000.0	-14.7
34710.00	V	40.0	*	2.0	44.1	-26.7	59.3	924.1	5000.0	-14.7

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. King :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5785MHz, 802.11n, UNII III
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
11570.00	H	41.3	*	7.8	38.6	-39.2	48.5	267.0	500.0	-5.4
11570.00	V	37.6	*	7.8	38.6	-39.2	44.8	173.8	500.0	-9.2
17355.00	H	33.00	*	9.7	41.8	-37.7	46.8	218.3	500.0	-7.2
17355.00	V	33.0	*	9.7	41.8	-37.7	46.8	218.3	500.0	-7.2
23140.00	H	22.7	*	1.7	40.6	-29.8	35.2	57.5	500.0	-18.8
23140.00	V	22.7	*	1.7	40.6	-29.8	35.2	57.5	500.0	-18.8
28925.00	H	20.9	*	1.8	43.8	-29.8	36.6	67.9	500.0	-17.3
28925.00	V	20.9	*	1.8	43.8	-29.8	36.6	67.9	500.0	-17.3
34710.00	H	29.2	*	2.0	44.1	-26.7	48.5	266.5	500.0	-5.5
34710.00	V	29.2	*	2.0	44.1	-26.7	48.5	266.5	500.0	-5.5

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5825MHz, 802.11n, UNII III
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
11650.00	H	60.7		7.8	38.7	-39.2	68.1	2537.1	5000.0	-5.9
11650.00	V	49.7	*	7.8	38.7	-39.2	57.0	707.7	5000.0	-17.0
17475.00	H	47.3	*	9.7	41.6	-37.8	60.9	1105.8	5000.0	-13.1
17475.00	V	47.3	*	9.7	41.6	-37.8	60.9	1105.8	5000.0	-13.1
23300.00	H	34.2	*	1.7	40.6	-29.5	47.0	223.6	5000.0	-27.0
23300.00	V	34.2	*	1.7	40.6	-29.5	47.0	223.6	5000.0	-27.0
29125.00	H	30.0	*	1.8	43.8	-29.9	45.7	192.0	5000.0	-28.3
29125.00	V	31.0	*	1.8	43.8	-29.9	46.7	215.4	5000.0	-27.3
34950.00	H	40.0	*	2.0	44.1	-27.7	58.4	833.8	5000.0	-15.6
34950.00	V	40.3	*	2.0	44.1	-27.7	58.7	863.1	5000.0	-15.3

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. King :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5825MHz, 802.11n, UNII III
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
11650.00	H	41.3		7.8	38.7	-39.2	48.6	269.4	500.0	-5.4
11650.00	V	36.1		7.8	38.7	-39.2	43.4	148.0	500.0	-10.6
17475.00	H	33.20	*	9.7	41.6	-37.8	46.8	218.1	500.0	-7.2
17475.00	V	33.2	*	9.7	41.6	-37.8	46.8	218.1	500.0	-7.2
23300.00	H	21.8	*	1.7	40.6	-29.5	34.6	53.6	500.0	-19.4
23300.00	V	21.8	*	1.7	40.6	-29.5	34.6	53.6	500.0	-19.4
29125.00	H	28.8	*	1.8	43.8	-29.9	44.5	167.2	500.0	-9.5
29125.00	V	28.8	*	1.8	43.8	-29.9	44.5	167.2	500.0	-9.5
34950.00	H	27.5	*	2.0	44.1	-27.7	45.9	197.7	500.0	-8.1
34950.00	V	27.5	*	2.0	44.1	-27.7	45.9	197.7	500.0	-8.1

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5190MHz, 802.11ac, UNII I, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
10380.00	H	46.3	*	7.2	37.5	-39.2	51.8	388.7	5000.0	-22.2
10380.00	V	46.3	*	7.2	37.5	-39.2	51.8	388.7	5000.0	-22.2
15570.00	H	45.8	*	9.0	41.0	-37.7	58.1	800.2	5000.0	-15.9
15570.00	V	44.8	*	9.0	41.0	-37.7	57.1	715.7	5000.0	-16.9
20760.00	H	34.8	*	1.7	40.1	-28.4	48.3	259.6	5000.0	-25.7
20760.00	V	34.8	*	1.7	40.1	-28.4	48.3	259.6	5000.0	-25.7
25950.00	H	33.2	*	1.7	40.7	-29.7	45.8	195.2	5000.0	-28.2
25950.00	V	33.2	*	1.7	40.7	-29.7	45.8	195.2	5000.0	-28.2
31140.00	H	41.0	*	1.9	43.9	-31.9	54.9	557.5	5000.0	-19.1
31140.00	V	41.0	*	1.9	43.9	-31.9	54.9	557.5	5000.0	-19.1
36330.00	H	40.0	*	2.1	44.1	-27.3	58.9	879.6	5000.0	-15.1
36330.00	V	40.0	*	2.1	44.1	-27.3	58.9	879.6	5000.0	-15.1

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5190MHz, 802.11ac, UNII I, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
10380.00	H	34.5	*	7.2	37.5	-39.2	40.0	99.9	500.0	-14.0
10380.00	V	34.5	*	7.2	37.5	-39.2	40.0	99.9	500.0	-14.0
15570.00	H	33.09	*	9.0	41.0	-37.7	45.4	186.1	500.0	-8.6
15570.00	V	33.1	*	9.0	41.0	-37.7	45.4	186.5	500.0	-8.6
20760.00	H	22.0	*	1.7	40.1	-28.4	35.4	59.2	500.0	-18.5
20760.00	V	22.0	*	1.7	40.1	-28.4	35.4	59.2	500.0	-18.5
25950.00	H	21.0	*	1.7	40.7	-29.7	33.6	47.9	500.0	-20.4
25950.00	V	21.0	*	1.7	40.7	-29.7	33.6	47.9	500.0	-20.4
31140.00	H	29.0	*	1.9	43.9	-31.9	42.9	140.0	500.0	-11.1
31140.00	V	29.0	*	1.9	43.9	-31.9	42.9	140.0	500.0	-11.1
36330.00	H	27.0	*	2.1	44.1	-27.3	45.9	196.9	500.0	-8.1
36330.00	V	27.0	*	2.1	44.1	-27.3	45.9	196.9	500.0	-8.1

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5230MHz, 802.11ac, UNII I, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
10460.00	H	47.2	*	7.2	37.6	-39.2	52.8	436.6	5000.0	-21.2
10460.00	V	47.2	*	7.2	37.6	-39.2	52.8	436.6	5000.0	-21.2
15690.00	H	46.8	*	9.0	41.4	-37.6	59.5	947.3	5000.0	-14.4
15690.00	V	48.3	*	9.0	41.4	-37.6	61.1	1135.0	5000.0	-12.9
20920.00	H	34.6	*	1.7	40.0	-28.5	47.9	247.4	5000.0	-26.1
20920.00	V	34.6	*	1.7	40.0	-28.5	47.9	247.4	5000.0	-26.1
26150.00	H	33.5	*	1.7	40.7	-29.9	45.9	197.8	5000.0	-28.1
26150.00	V	33.5	*	1.7	40.7	-29.9	45.9	197.8	5000.0	-28.1
31380.00	H	41.0	*	1.9	43.9	-31.7	55.1	570.7	5000.0	-18.9
31380.00	V	41.0	*	1.9	43.9	-31.7	55.1	570.7	5000.0	-18.9
36610.00	H	40.2	*	2.1	44.1	-26.4	60.0	998.7	5000.0	-14.0
36610.00	V	40.2	*	2.1	44.1	-26.4	60.0	998.7	5000.0	-14.0

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5230MHz, 802.11ac, UNII I, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Total dBuV/m at 3m	Total uV/m at 3 m	Limit uV/m at 3 m	Margin (dB)
10460.00	H	34.8	*	7.2	37.6	-39.2	40.4	104.7	500.0	-13.6
10460.00	V	34.8	*	7.2	37.6	-39.2	40.4	104.7	500.0	-13.6
15690.00	H	34.7	*	9.0	41.4	-37.6	47.5	237.7	500.0	-6.5
15690.00	V	34.2	*	9.0	41.4	-37.6	47.0	223.1	500.0	-7.0
20920.00	H	21.6	*	1.7	40.0	-28.5	34.9	55.5	500.0	-19.1
20920.00	V	21.6	*	1.7	40.0	-28.5	34.9	55.5	500.0	-19.1
26150.00	H	21.4	*	1.7	40.7	-29.9	33.8	49.1	500.0	-20.2
26150.00	V	21.4	*	1.7	40.7	-29.9	33.8	49.1	500.0	-20.2
31380.00	H	29.3	*	1.9	43.9	-31.7	43.4	148.4	500.0	-10.6
31380.00	V	29.3	*	1.9	43.9	-31.7	43.4	148.4	500.0	-10.6
36610.00	H	27.4	*	2.1	44.1	-26.4	47.2	228.8	500.0	-6.8
36610.00	V	27.4	*	2.1	44.1	-26.4	47.2	228.8	500.0	-6.8

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5190MHz, 802.11n, UNII I, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
10380.00	H	45.6	*	7.2	37.5	-39.2	51.1	358.6	5000.0	-22.9
10380.00	V	45.6	*	7.2	37.5	-39.2	51.1	358.6	5000.0	-22.9
15570.00	H	46.0		9.0	41.0	-37.7	58.3	823.6	5000.0	-15.7
15570.00	V	45.3	*	9.0	41.0	-37.7	57.6	762.4	5000.0	-16.3
20760.00	H	34.8	*	1.7	40.1	-28.4	48.3	259.6	5000.0	-25.7
20760.00	V	34.9	*	1.7	40.1	-28.4	48.3	260.2	5000.0	-25.7
25950.00	H	33.5	*	1.7	40.7	-29.7	46.1	202.1	5000.0	-27.9
25950.00	V	33.5	*	1.7	40.7	-29.7	46.1	202.1	5000.0	-27.9
31140.00	H	41.6	*	1.9	43.9	-31.9	55.5	597.4	5000.0	-18.5
31140.00	V	41.6	*	1.9	43.9	-31.9	55.5	597.4	5000.0	-18.5
36330.00	H	40.1	*	2.1	44.1	-27.3	59.0	889.8	5000.0	-15.0
36330.00	V	40.1	*	2.1	44.1	-27.3	59.0	889.8	5000.0	-15.0

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5190MHz, 802.11n, UNII I, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
10380.00	H	34.8	*	7.2	37.5	-39.2	40.3	103.4	500.0	-13.7
10380.00	V	34.8	*	7.2	37.5	-39.2	40.3	103.4	500.0	-13.7
15570.00	H	33.09	*	9.0	41.0	-37.7	45.4	186.1	500.0	-8.6
15570.00	V	33.1	*	9.0	41.0	-37.7	45.4	186.5	500.0	-8.6
20760.00	H	22.0	*	1.7	40.1	-28.4	35.4	58.9	500.0	-18.6
20760.00	V	22.0	*	1.7	40.1	-28.4	35.4	58.9	500.0	-18.6
25950.00	H	21.0	*	1.7	40.7	-29.7	33.6	47.9	500.0	-20.4
25950.00	V	21.0	*	1.7	40.7	-29.7	33.6	47.9	500.0	-20.4
31140.00	H	29.0	*	1.9	43.9	-31.9	42.9	140.0	500.0	-11.1
31140.00	V	29.0	*	1.9	43.9	-31.9	42.9	140.0	500.0	-11.1
36330.00	H	27.0	*	2.1	44.1	-27.3	45.9	196.9	500.0	-8.1
36330.00	V	27.0	*	2.1	44.1	-27.3	45.9	196.9	500.0	-8.1

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5230MHz, 802.11n, UNII I, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
10460.00	H	46.8	*	7.2	37.6	-39.2	52.4	416.9	5000.0	-21.6
10460.00	V	46.8	*	7.2	37.6	-39.2	52.4	416.9	5000.0	-21.6
15690.00	H	47.2		9.0	41.4	-37.6	59.9	994.3	5000.0	-14.0
15690.00	V	45.0	*	9.0	41.4	-37.6	57.8	774.5	5000.0	-16.2
20920.00	H	34.8	*	1.7	40.0	-28.5	48.1	254.3	5000.0	-25.9
20920.00	V	34.8	*	1.7	40.0	-28.5	48.1	254.3	5000.0	-25.9
26150.00	H	33.2	*	1.7	40.7	-29.9	45.6	191.1	5000.0	-28.4
26150.00	V	33.2	*	1.7	40.7	-29.9	45.6	191.1	5000.0	-28.4
31380.00	H	41.0	*	1.9	43.9	-31.7	55.1	570.7	5000.0	-18.9
31380.00	V	41.0	*	1.9	43.9	-31.7	55.1	570.7	5000.0	-18.9
36610.00	H	40.0	*	2.1	44.1	-26.4	59.8	976.0	5000.0	-14.2
36610.00	V	40.0	*	2.1	44.1	-26.4	59.8	976.0	5000.0	-14.2

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5230MHz, 802.11n, UNII I, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Duty Cycle (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
10460.00	H	34.8	*	7.2	37.6	-39.2	0.0	40.4	104.7	500.0	-13.6
10460.00	V	34.8	*	7.2	37.6	-39.2	0.0	40.4	104.7	500.0	-13.6
15690.00	H	34.75	*	9.0	41.4	-37.6	0.0	47.5	237.7	500.0	-6.5
15690.00	V	32.7	*	9.0	41.4	-37.6	0.0	45.5	188.6	500.0	-8.5
20920.00	H	21.9	*	1.7	40.0	-28.5	0.0	35.1	57.1	500.0	-18.8
20920.00	V	21.9	*	1.7	40.0	-28.5	0.0	35.1	57.1	500.0	-18.8
26150.00	H	21.0	*	1.7	40.7	-29.9	0.0	33.4	46.9	500.0	-20.6
26150.00	V	21.0	*	1.7	40.7	-29.9	0.0	33.4	46.9	500.0	-20.6
31380.00	H	29.0	*	1.9	43.9	-31.7	0.0	43.1	143.4	500.0	-10.9
31380.00	V	29.0	*	1.9	43.9	-31.7	0.0	43.1	143.4	500.0	-10.9
36610.00	H	27.0	*	2.1	44.1	-26.4	0.0	46.8	218.5	500.0	-7.2
36610.00	V	27.0	*	2.1	44.1	-26.4	0.0	46.8	218.5	500.0	-7.2

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5755MHz, 802.11ac, UNII III, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
11510.00	H	53.8		7.8	38.5	-39.2	60.9	1112.6	5000.0	-13.1
11510.00	V	49.0		7.8	38.5	-39.2	56.1	641.7	5000.0	-17.8
17265.00	H	46.1	*	9.6	42.0	-37.7	60.0	1004.6	5000.0	-13.9
17265.00	V	46.1	*	9.6	42.0	-37.7	60.0	1004.6	5000.0	-13.9
23020.00	H	35.4	*	1.7	40.6	-30.0	47.7	242.6	5000.0	-26.3
23020.00	V	35.4	*	1.7	40.6	-30.0	47.7	242.6	5000.0	-26.3
28775.00	H	34.5	*	1.8	43.8	-29.6	50.5	335.4	5000.0	-23.5
28775.00	V	34.5	*	1.8	43.8	-29.6	50.5	335.4	5000.0	-23.5
34530.00	H	41.5	*	2.0	44.1	-27.4	60.1	1013.0	5000.0	-13.9
34530.00	V	41.5	*	2.0	44.1	-27.4	60.1	1013.0	5000.0	-13.9

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5755MHz, 802.11ac, UNII III, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
11510.00	H	39.7		7.8	38.5	-39.2	46.8	217.9	500.0	-7.2
11510.00	V	34.8	*	7.8	38.5	-39.2	41.9	124.0	500.0	-12.1
17265.00	H	33.20	*	9.6	42.0	-37.7	47.1	227.5	500.0	-6.8
17265.00	V	33.2	*	9.6	42.0	-37.7	47.1	227.5	500.0	-6.8
23020.00	H	22.9	*	1.7	40.6	-30.0	35.3	58.1	500.0	-18.7
23020.00	V	22.9	*	1.7	40.6	-30.0	35.3	58.1	500.0	-18.7
28775.00	H	21.0	*	1.8	43.8	-29.6	37.0	70.9	500.0	-17.0
28775.00	V	21.0	*	1.8	43.8	-29.6	37.0	70.9	500.0	-17.0
34530.00	H	27.0	*	2.0	44.1	-27.4	45.6	190.8	500.0	-8.4
34530.00	V	27.0	*	2.0	44.1	-27.4	45.6	190.8	500.0	-8.4

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5795MHz, 802.11ac, UNII III, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
11590.00	H	57.1		7.8	38.6	-39.2	64.4	1650.9	5000.0	-9.6
11590.00	V	53.5		7.8	38.6	-39.2	60.8	1094.5	5000.0	-13.2
17385.00	H	46.2	*	9.7	41.8	-37.7	59.9	992.0	5000.0	-14.0
17385.00	V	46.2	*	9.7	41.8	-37.7	59.9	992.0	5000.0	-14.0
23180.00	H	35.3	*	1.7	40.6	-29.7	47.9	247.7	5000.0	-26.1
23180.00	V	35.3	*	1.7	40.6	-29.7	47.9	247.7	5000.0	-26.1
28975.00	H	33.2	*	1.8	43.8	-30.0	48.8	276.5	5000.0	-25.1
28975.00	V	33.2	*	1.8	43.8	-30.0	48.8	276.5	5000.0	-25.1
34770.00	H	41.3	*	2.0	44.1	-27.2	60.2	1018.0	5000.0	-13.8
34770.00	V	41.3	*	2.0	44.1	-27.2	60.2	1018.0	5000.0	-13.8

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5795MHz, 802.11ac, UNII III, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
11590.00	H	40.9		7.8	38.6	-39.2	48.2	256.3	500.0	-5.8
11590.00	V	38.8		7.8	38.6	-39.2	46.0	199.4	500.0	-8.0
17385.00	H	33.00	*	9.7	41.8	-37.7	46.7	217.0	500.0	-7.2
17385.00	V	33.0	*	9.7	41.8	-37.7	46.7	217.0	500.0	-7.2
23180.00	H	21.0	*	1.7	40.6	-29.7	33.6	47.7	500.0	-20.4
23180.00	V	21.0	*	1.7	40.6	-29.7	33.6	47.7	500.0	-20.4
28975.00	H	25.0	*	1.8	43.8	-30.0	40.6	107.6	500.0	-13.3
28975.00	V	25.0	*	1.8	43.8	-30.0	40.6	107.6	500.0	-13.3
34770.00	H	29.0	*	2.0	44.1	-27.2	47.9	247.0	500.0	-6.1
34770.00	V	29.0	*	2.0	44.1	-27.2	47.9	247.0	500.0	-6.1

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5755MHz, 802.11n, UNII III, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
11510.00	H	44.5	*	7.8	38.5	-39.2	51.6	379.6	5000.0	-22.4
11510.00	V	44.6	*	7.8	38.5	-39.2	51.7	383.6	5000.0	-22.3
17265.00	H	46.2	*	9.6	42.0	-37.7	60.1	1016.2	5000.0	-13.8
17265.00	V	46.2	*	9.6	42.0	-37.7	60.1	1016.2	5000.0	-13.8
23020.00	H	36.1	*	1.7	40.6	-30.0	48.4	263.0	5000.0	-25.6
23020.00	V	36.1	*	1.7	40.6	-30.0	48.4	263.0	5000.0	-25.6
28775.00	H	41.0	*	1.8	43.8	-29.6	57.0	708.9	5000.0	-17.0
28775.00	V	41.0	*	1.8	43.8	-29.6	57.0	708.9	5000.0	-17.0
34530.00	H	40.5	*	2.0	44.1	-27.4	59.1	902.8	5000.0	-14.9
34530.00	V	40.5	*	2.0	44.1	-27.4	59.1	902.8	5000.0	-14.9

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5755MHz, 802.11n, UNII III, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
11510.00	H	32.7	*	7.8	38.5	-39.2	39.8	98.3	500.0	-14.1
11510.00	V	32.7	*	7.8	38.5	-39.2	39.8	97.2	500.0	-14.2
17265.00	H	33.50	*	9.6	42.0	-37.7	47.4	235.5	500.0	-6.5
17265.00	V	33.5	*	9.6	42.0	-37.7	47.4	235.5	500.0	-6.5
23020.00	H	23.2	*	1.7	40.6	-30.0	35.5	59.6	500.0	-18.5
23020.00	V	23.2	*	1.7	40.6	-30.0	35.5	59.6	500.0	-18.5
28775.00	H	28.8	*	1.8	43.8	-29.6	44.8	174.0	500.0	-9.2
28775.00	V	28.8	*	1.8	43.8	-29.6	44.8	174.0	500.0	-9.2
34530.00	H	29.5	*	2.0	44.1	-27.4	48.1	254.5	500.0	-5.9
34530.00	V	29.5	*	2.0	44.1	-27.4	48.1	254.5	500.0	-5.9

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5795MHz, 802.11n, UNII III, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
11590.00	H	58.2		7.8	38.6	-39.2	65.4	1865.2	5000.0	-8.6
11590.00	V	51.6		7.8	38.6	-39.2	58.9	879.5	5000.0	-15.1
17385.00	H	46.2	*	9.7	41.8	-37.7	59.9	992.0	5000.0	-14.0
17385.00	V	46.2	*	9.7	41.8	-37.7	59.9	992.0	5000.0	-14.0
23180.00	H	33.3	*	1.7	40.6	-29.7	45.9	196.7	5000.0	-28.1
23180.00	V	33.3	*	1.7	40.6	-29.7	45.9	196.7	5000.0	-28.1
28975.00	H	41.0	*	1.8	43.8	-30.0	56.6	678.7	5000.0	-17.3
28975.00	V	41.0	*	1.8	43.8	-30.0	56.6	678.7	5000.0	-17.3
34770.00	H	40.3	*	2.0	44.1	-27.2	59.2	907.3	5000.0	-14.8
34770.00	V	40.3	*	2.0	44.1	-27.2	59.2	907.3	5000.0	-14.8

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5795MHz, 802.11n, UNII III, 40MHz
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
11590.00	H	40.8		7.8	38.6	-39.2	48.0	251.0	500.0	-6.0
11590.00	V	38.8		7.8	38.6	-39.2	46.0	199.4	500.0	-8.0
17385.00	H	33.80	*	9.7	41.8	-37.7	47.5	238.0	500.0	-6.4
17385.00	V	33.8	*	9.7	41.8	-37.7	47.5	238.0	500.0	-6.4
23180.00	H	23.0	*	1.7	40.6	-29.7	35.6	60.1	500.0	-18.4
23180.00	V	23.0	*	1.7	40.6	-29.7	35.6	60.1	500.0	-18.4
28975.00	H	29.0	*	1.8	43.8	-30.0	44.6	170.5	500.0	-9.3
28975.00	V	29.0	*	1.8	43.8	-30.0	44.6	170.5	500.0	-9.3
34770.00	H	27.0	*	2.0	44.1	-27.2	45.9	196.2	500.0	-8.1
34770.00	V	27.0	*	2.0	44.1	-27.2	45.9	196.2	500.0	-8.1

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. King :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5210MHz, 802.11ac, UNII I, 80MHz
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
10420.00	H	46.2	*	7.2	37.5	-39.2	51.7	386.7	5000.0	-22.2
10420.00	V	46.2	*	7.2	37.5	-39.2	51.7	386.7	5000.0	-22.2
15630.00	H	44.9	*	9.0	41.2	-37.7	57.4	744.5	5000.0	-16.5
15630.00	V	44.9	*	9.0	41.2	-37.7	57.5	746.2	5000.0	-16.5
20840.00	H	34.8	*	1.7	40.1	-28.4	48.2	257.3	5000.0	-25.8
20840.00	V	34.8	*	1.7	40.1	-28.4	48.2	258.5	5000.0	-25.7
26050.00	H	33.0	*	1.7	40.7	-29.8	45.5	188.8	5000.0	-28.5
26050.00	V	33.0	*	1.7	40.7	-29.8	45.5	188.8	5000.0	-28.5
31260.00	H	41.0	*	1.9	43.9	-32.2	54.6	539.8	5000.0	-19.3
31260.00	V	41.0	*	1.9	43.9	-32.2	54.6	539.8	5000.0	-19.3
36470.00	H	40.1	*	2.1	44.1	-27.1	59.2	916.3	5000.0	-14.7
36470.00	V	40.1	*	2.1	44.1	-27.1	59.2	916.3	5000.0	-14.7

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5210MHz, 802.11ac, UNII I, 80MHz
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
10420.00	H	34.8	*	7.2	37.5	-39.2	40.3	104.1	500.0	-13.6
10420.00	V	34.8	*	7.2	37.5	-39.2	40.3	104.1	500.0	-13.6
15630.00	H	32.91	*	9.0	41.2	-37.7	45.4	187.2	500.0	-8.5
15630.00	V	33.7	*	9.0	41.2	-37.7	46.2	205.3	500.0	-7.7
20840.00	H	22.1	*	1.7	40.1	-28.4	35.5	59.6	500.0	-18.5
20840.00	V	22.1	*	1.7	40.1	-28.4	35.5	59.6	500.0	-18.5
26050.00	H	21.9	*	1.7	40.7	-29.8	34.4	52.6	500.0	-19.6
26050.00	V	21.9	*	1.7	40.7	-29.8	34.4	52.6	500.0	-19.6
31260.00	H	29.0	*	1.9	43.9	-32.2	42.6	135.6	500.0	-11.3
31260.00	V	29.0	*	1.9	43.9	-32.2	42.6	135.6	500.0	-11.3
36470.00	H	27.0	*	2.1	44.1	-27.1	46.1	202.8	500.0	-7.8
36470.00	V	27.0	*	2.1	44.1	-27.1	46.1	202.8	500.0	-7.8

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5755MHz, 802.11ac, UNII III, 80MHz
Notes : Test Distance is 3 meters
Notes : Maximized Peak Readings in a 1MHz bandwidth

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Peak Total dBuV/m at 3m	Peak Total uV/m at 3 m	Peak Limit uV/m at 3 m	Margin (dB)
11550.00	H	53.0		7.8	38.6	-39.2	60.2	1022.8	5000.0	-13.8
11550.00	V	49.0		7.8	38.6	-39.2	56.2	645.3	5000.0	-17.8
17325.00	H	45.8	*	9.7	41.9	-37.7	59.6	958.8	5000.0	-14.3
17325.00	V	45.8	*	9.7	41.9	-37.7	59.6	958.8	5000.0	-14.3
23100.00	H	33.6	*	1.7	40.6	-29.9	46.0	199.8	5000.0	-28.0
23100.00	V	33.6	*	1.7	40.6	-29.9	46.0	199.8	5000.0	-28.0
28875.00	H	40.3	*	1.8	43.8	-29.8	56.1	638.3	5000.0	-17.9
28875.00	V	40.3	*	1.8	43.8	-29.8	56.1	638.3	5000.0	-17.9
34650.00	H	41.2	*	2.0	44.1	-26.9	60.3	1036.2	5000.0	-13.7
34650.00	V	41.2	*	2.0	44.1	-26.9	60.3	1036.2	5000.0	-13.7

Peak Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB)

Peak Total uV/m = $10^{((\text{Peak Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



Manufacturer : Winegard Co.
Model No. : RP-WF12
Specification : FCC-15.407 Spurious Radiated Emissions
Date : March 3 through June 7, 2016
Mode : Tx @ 5755MHz, 802.11ac, UNII III, 80MHz
Notes : Test Distance is 3 meters
Notes : Maximized Average Readings

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB)	Pre Amp (dB)	Average Total dBuV/m at 3m	Average Total uV/m at 3 m	Average Limit uV/m at 3 m	Margin (dB)
11550.00	H	37.4		7.8	38.6	-39.2	44.6	169.5	500.0	-9.4
11550.00	V	34.4		7.8	38.6	-39.2	41.6	120.0	500.0	-12.4
17325.00	H	33.0	*	9.7	41.9	-37.7	46.8	219.7	500.0	-7.1
17325.00	V	33.0	*	9.7	41.9	-37.7	46.8	219.7	500.0	-7.1
23100.00	H	21.6	*	1.7	40.6	-29.9	34.0	50.2	500.0	-20.0
23100.00	V	21.6	*	1.7	40.6	-29.9	34.0	50.2	500.0	-20.0
28875.00	H	29.0	*	1.8	43.8	-29.8	44.8	173.8	500.0	-9.2
28875.00	V	29.0	*	1.8	43.8	-29.8	44.8	173.8	500.0	-9.2
34650.00	H	27.0	*	2.0	44.1	-26.9	46.1	202.1	500.0	-7.9
34650.00	V	27.0	*	2.0	44.1	-26.9	46.1	202.1	500.0	-7.9

Average Total (dBuV/m) = Meter Reading (dBuV) + Cable Factor (dB) + Antenna Factor (dB) + Pre Amp Gain (dB) + Duty Cycle Correction Factor (dB)

Average Total uV/m = $10^{((\text{Average Total (dBuV/m)})/20)}$

Checked BY RICHARD E. KING :

Richard E. King



MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : Band-edge Compliance
TEST DATE : June 7, 2016
TEST MODE : See below
DATA RATE : See below
NOTES : 20MHz UNII I

Total EIRP (dBm/MHz) = Meter Reading + duty cycle correction factor + cable factor + antenna factor - 95

PROTOCOL : n

Transmitter Freq. MHz	Band-edge Frequency MHz	Data Rate MBPs	Ant Pol	Meter Reading (dBuV)	Duty Cycle Correction Factor (dB)	CBL Fac (dB)	Ant Fac (dB)	Total EIRP dBm/MHz at 3 m	EIRP Limit dBm/MHz
5180	5150	43.3	H	12.5	0.27	5.0	34.6	-42.7	-27.0
5180	5150	43.3	V	13.0	0.27	5.0	34.6	-42.1	-27.0
5250	5250	28.9	H	23.4	0.84	5.1	34.7	-31.0	-27.0
5250	5250	28.9	V	22.1	0.84	5.1	34.7	-32.3	-27.0

PROTOCOL : ac

Transmitter Freq. MHz	Band-edge Frequency MHz	Data Rate MBPs	Ant Pol	Meter Reading (dBuV)	Duty Cycle Correction Factor (dB)	CBL Fac (dB)	Ant Fac (dB)	Total EIRP dBm/MHz at 3 m	EIRP Limit dBm/MHz
5180	5150	43.3	H	12.5	0.27	5.0	34.6	-42.7	-27.0
5180	5150	43.3	V	13.0	0.27	5.0	34.6	-42.1	-27.0
5240	5250	28.9	H	20.5	0.84	5.1	34.7	-34.0	-27.0
5240	5250	28.9	V	19.8	0.84	5.1	34.7	-34.6	-27.0

Checked BY RICHARD E. King :

Richard E. King



MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : Band-edge Compliance
TEST DATE : June 7, 2016
TEST MODE : See below
DATA RATE : See below
NOTES : 40MHz UNII I

Total EIRP (dBm/MHz) = Meter Reading + duty cycle correction factor + cable factor + antenna factor - 95

PROTOCOL : n

Transmitter Freq. MHz	Band-edge Frequency MHz	Data Rate MBPs	Ant Pol	Meter Reading (dBuV)	Duty Cycle Correction Factor (dB)	CBL Fac (dB)	Ant Fac (dB)	Total EIRP dBm/MHz at 3 m	EIRP Limit dBm/MHz
5190	5150	120.0	H	20.5	2.10	5.0	34.6	-32.8	-27.0
5190	5150	120.0	V	19.0	2.10	5.0	34.6	-34.3	-27.0
5230	5250	120.0	H	20.6	2.10	5.0	34.7	-32.6	-27.0
5230	5250	120.0	V	19.4	2.10	5.0	34.7	-33.8	-27.0

PROTOCOL : ac

Transmitter Freq. MHz	Band-edge Frequency MHz	Data Rate MBPs	Ant Pol	Meter Reading (dBuV)	Duty Cycle Correction Factor (dB)	CBL Fac (dB)	Ant Fac (dB)	Total EIRP dBm/MHz at 3 m	EIRP Limit dBm/MHz
5190	5150	200	H	20.5	2.41	5.0	34.6	-32.5	-27.0
5190	5150	200	V	19.6	2.41	5.0	34.6	-33.4	-27.0
5230	5250	200.0	H	20.2	2.54	5.0	34.7	-32.6	-27.0
5230	5250	200.0	V	19.0	2.54	5.0	34.7	-33.8	-27.0

Checked BY RICHARD E. King :

Richard E. King



MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : Band-edge Compliance
TEST DATE : June 7, 2016
TEST MODE : See below
DATA RATE : See below
NOTES : 80MHz UNII I

Total EIRP (dBm/MHz) = Meter Reading + duty cycle correction factor + cable factor + antenna factor - 95

PROTOCOL : ac

Transmitter Freq. MHz	Band-edge Frequency MHz	Data Rate MBPs	Ant Pol	Meter Reading (dBuV)	Duty Cycle Correction Factor (dB)	CBL Fac (dB)	Ant Fac (dB)	Total EIRP dBm/MHz at 3 m	EIRP Limit dBm/MHz
5210	5150	260.0	H	7.8	2.95	5.0	34.6	-44.6	-27.0
5210	5150	260.0	V	7.8	2.95	5.0	34.6	-44.6	-27.0
5230	5250	200.0	H	20.2	2.54	5.0	34.7	-32.6	-27.0
5230	5250	200.0	V	19.0	2.54	5.0	34.7	-33.8	-27.0

Checked BY RICHARD E. KING :

Richard E. King



MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : Band-edge Compliance
TEST DATE : March 3 through April 28, 2016
TEST MODE : See below
DATA RATE : See below
NOTES : UNII III

Total EIRP (dBm/MHz) = Meter Reading + MIMO + antenna gain + duty cycle correction factor

Transmitter Freq. MHz	Band edge Frequency	Protocol	Channel Bandwidth MHz	Data Rate MBPs	Meter Reading dBm/MHz	MIMO dB	Antenna Gain dB	Duty Cycle dB	EIRP Total dBm/MHz at 3 m	EIRP Limit dBm/MHz
5745	5725	n	20	43.3	-33.26	4.8	5	0.3	-23.2	-17.0
5825	5850	n	20	43.3	-33.26	4.8	5	0.3	-23.2	-17.0
5745	5725	ac	20	43.3	-32.67	4.8	5	0.3	-22.6	-17.0
5825	5850	ac	20	43.3	-32.06	4.8	5	0.3	-22.0	-17.0
5755	5725	n	40	135	-32.74	4.8	5	2.4	-20.6	-17.0
5795	5850	n	40	150	-36.37	4.8	5	2.4	-24.2	-17.0
5755	5725	ac	40	200	-32.43	4.8	5	2.5	-20.1	-17.0
5795	5850	ac	40	200	-36.31	4.8	5	2.5	-24.0	-17.0
5755	5725	ac	80	130	-32.88	4.8	5	2.2	-20.9	-17.0
5755	5850	ac	80	130	-37.36	4.8	5	2.2	-25.4	-17.0

Checked BY RICHARD E. King :

Richard E. King



MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : PSD
TEST DATE : March 28-29, 2016
TEST MODE : See below
PROTOCOL : See below
DATA RATE : See below
NOTES : 20MHz bandwidth
:

Lo/Mid/Hi	Channel	Frequency MHz	802.11 Protocol	Rate Mbps	MIMO dB	PSD dBm	PSD + MIMO+DC dBm
Lo	36	5180	n	7.2	4.77	9.19	14.23
Mid	40	5200	n	7.2	4.77	7.77	12.81
Hi	48	5240	n	7.2	4.77	-6.37	-1.33
Lo	36	5180	n	14.4	4.77	8.48	13.70
Mid	40	5200	n	14.4	4.77	7.78	13.00
Hi	48	5240	n	14.4	4.77	-6.14	-0.92
Lo	36	5180	n	21.7	4.77	8.43	13.94
Mid	40	5200	n	21.7	4.77	7.87	13.38
Hi	48	5240	n	21.7	4.77	-6.31	-0.80
Lo	36	5180	n	28.9	4.77	8.77	14.38
Mid	40	5200	n	28.9	4.77	8.45	14.06
Hi	48	5240	n	28.9	4.77	-5.41	0.20
Lo	36	5180	n	43.3	4.77	9.32	14.37
Mid	40	5200	n	43.3	4.77	8.94	13.99
Hi	48	5240	n	43.3	4.77	-5.12	-0.07
Lo	36	5180	n	57.8	4.77	8.59	14.81
Mid	40	5200	n	57.8	4.77	8.63	14.85
Hi	48	5240	n	57.8	4.77	-5.66	0.56
Lo	36	5180	n	65	4.77	9	15.31
Mid	40	5200	n	65	4.77	8.55	14.86
Hi	48	5240	n	65	4.77	-5.71	0.60
Lo	36	5180	n	72.2	4.77	9.32	15.69
Mid	40	5200	n	72.2	4.77	8.75	15.12
Hi	48	5240	n	72.2	4.77	-5.2	1.17

Checked BY RICHARD E. King :

Richard E. King



MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : PSD
TEST DATE : March 28-29, 2016
TEST MODE : See below
PROTOCOL : See below
DATA RATE : See below
NOTES : 20MHz bandwidth
:

Lo/Mid/Hi	Channel	Frequency MHz	802.11 Protocol	Rate Mbps	MIMO dB	PSD dBm	PSD + MIMO+DC dBm
Lo	36	5180	ac	7.2	4.77	8.25	13.29
Mid	40	5200	ac	7.2	4.77	8.15	13.19
Hi	48	5240	ac	7.2	4.77	-7.9	-2.86
Lo	36	5180	ac	14.4	4.77	8.66	13.88
Mid	40	5200	ac	14.4	4.77	8.92	14.14
Hi	48	5240	ac	14.4	4.77	-7.97	-2.75
Lo	36	5180	ac	21.7	4.77	8.48	13.99
Mid	40	5200	ac	21.7	4.77	8.35	13.86
Hi	48	5240	ac	21.7	4.77	-7.75	-2.24
Lo	36	5180	ac	28.9	4.77	9.04	14.65
Mid	40	5200	ac	28.9	4.77	8.92	14.53
Hi	48	5240	ac	28.9	4.77	-7.07	-1.46
Lo	36	5180	ac	43.3	4.77	8.84	13.89
Mid	40	5200	ac	43.3	4.77	9.44	14.49
Hi	48	5240	ac	43.3	4.77	-7.25	-2.20
Lo	36	5180	ac	57.8	4.77	8.66	14.88
Mid	40	5200	ac	57.8	4.77	8.64	14.86
Hi	48	5240	ac	57.8	4.77	-7.35	-1.13
Lo	36	5180	ac	65	4.77	8.81	15.12
Mid	40	5200	ac	65	4.77	8.99	15.30
Hi	48	5240	ac	65	4.77	-6.99	-0.68
Lo	36	5180	ac	72.2	4.77	9.04	15.41
Mid	40	5200	ac	72.2	4.77	8.97	15.34
Hi	48	5240	ac	72.2	4.77	-7.1	-0.73
Lo	36	5180	ac	86.7	4.77	8.91	15.28
Mid	40	5200	ac	86.7	4.77	9.67	16.04
Hi	48	5240	ac	86.7	4.77	-7.4	-1.03

Checked BY RICHARD E. King :

Richard E. King



MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : PSD
TEST DATE : March 28-29, 2016
TEST MODE : See below
PROTOCOL : See below
DATA RATE : See below
NOTES : 20MHz bandwidth
:

Lo/Mid/Hi	Channel	Frequency MHz	802.11 Protocol	Rate Mbps	MIMO dB	PSD dBm	PSD+MIMO+DC dBm
Lo	149	5745	n	7.2	4.77	0.46	5.50
Mid	157	5785	n	7.2	4.77	0.32	5.36
Hi	165	5825	n	7.2	4.77	2.15	7.19
Lo	149	5745	n	14.4	4.77	0.43	5.65
Mid	157	5785	n	14.4	4.77	0.59	5.81
Hi	165	5825	n	14.4	4.77	2.33	7.55
Lo	149	5745	n	21.7	4.77	0.29	5.80
Mid	157	5785	n	21.7	4.77	1.19	6.70
Hi	165	5825	n	21.7	4.77	2.41	7.92
Lo	149	5745	n	28.9	4.77	0.29	5.90
Mid	157	5785	n	28.9	4.77	1.72	7.33
Hi	165	5825	n	28.9	4.77	2.7	8.31
Lo	149	5745	n	43.3	4.77	0.26	5.31
Mid	157	5785	n	43.3	4.77	1.89	6.94
Hi	165	5825	n	43.3	4.77	2.66	7.71
Lo	149	5745	n	57.8	4.77	0.17	6.39
Mid	157	5785	n	57.8	4.77	1.51	7.73
Hi	165	5825	n	57.8	4.77	2.13	8.35
Lo	149	5745	n	65	4.77	-0.06	6.25
Mid	157	5785	n	65	4.77	1.44	7.75
Hi	165	5825	n	65	4.77	2.19	8.50
Lo	149	5745	n	72.2	4.77	0.03	6.40
Mid	157	5785	n	72.2	4.77	1.54	7.91
Hi	165	5825	n	72.2	4.77	2.1	8.47

Checked BY RICHARD E. King :

Richard E. King



MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : PSD
TEST DATE : March 28-29, 2016
TEST MODE : See below
PROTOCOL : See below
DATA RATE : See below
NOTES : 20MHz bandwidth
:

Lo/Mid/Hi	Channel	Frequency MHz	802.11 Protocol	Rate Mbps	MIMO dB	PSD dBm	PSD+MIMO+DC dBm
Lo	149	5745	ac	7.2	4.77	0.21	5.25
Mid	157	5785	ac	7.2	4.77	0.89	5.93
Hi	165	5825	ac	7.2	4.77	0.33	5.37
Lo	149	5745	ac	14.4	4.77	0.09	5.31
Mid	157	5785	ac	14.4	4.77	0.3	5.52
Hi	165	5825	ac	14.4	4.77	0.58	5.80
Lo	149	5745	ac	21.7	4.77	0.22	5.73
Mid	157	5785	ac	21.7	4.77	0.45	5.96
Hi	165	5825	ac	21.7	4.77	0.42	5.93
Lo	149	5745	ac	28.9	4.77	0.22	5.83
Mid	157	5785	ac	28.9	4.77	0.13	5.74
Hi	165	5825	ac	28.9	4.77	0.41	6.02
Lo	149	5745	ac	43.3	4.77	0.01	5.06
Mid	157	5785	ac	43.3	4.77	0.46	5.51
Hi	165	5825	ac	43.3	4.77	0.23	5.28
Lo	149	5745	ac	57.8	4.77	0.11	6.33
Mid	157	5785	ac	57.8	4.77	0.18	6.40
Hi	165	5825	ac	57.8	4.77	0.38	6.60
Lo	149	5745	ac	65	4.77	0.32	6.63
Mid	157	5785	ac	65	4.77	0.27	6.58
Hi	165	5825	ac	65	4.77	0.68	6.99
Lo	149	5745	ac	72.2	4.77	-0.12	6.25
Mid	157	5785	ac	72.2	4.77	0.58	6.95
Hi	165	5825	ac	72.2	4.77	0.59	6.96
Lo	149	5745	ac	86.7	4.77	-0.11	6.40
Mid	157	5785	ac	86.7	4.77	0.33	7.91
Hi	165	5825	ac	86.7	4.77	0.24	8.47

Checked BY RICHARD E. King :

Richard E. King



MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : PSD
TEST DATE : March 28-29, 2016
TEST MODE : See below
PROTOCOL : See below
DATA RATE : See below
NOTES : 40MHz bandwidth
:

Lo/Mid/Hi	Channel	Frequency MHz	802.11 Protocol	Rate Mbps	MIMO db	PSD dBm	PSD+MOMO+DC dBm
Lo	38	5190	n	15	4.77	4.43	9.69
Hi	46	5230	n	15	4.77	-11.04	-5.78
Lo	38	5190	n	30	4.77	4.4	10.06
Hi	46	5230	n	30	4.77	-10.77	-5.11
Lo	38	5190	n	45	4.77	4.59	10.43
Hi	46	5230	n	45	4.77	-10.84	-5.00
Lo	38	5190	n	60	4.77	5.07	11.23
Hi	46	5230	n	60	4.77	-10.2	-4.04
Lo	38	5190	n	90	4.77	5.73	12.32
Hi	46	5230	n	90	4.77	-10.09	-3.50
Lo	38	5190	n	120	4.77	5.86	12.73
Hi	46	5230	n	120	4.77	-9.67	-2.80
Lo	38	5190	n	135	4.77	5.62	12.80
Hi	46	5230	n	135	4.77	-10.03	-2.85
Lo	38	5190	n	150	4.77	6.15	13.31
Hi	46	5230	n	150	4.77	-9.58	-2.42

Checked BY RICHARD E. KING :

Richard E. King



MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : PSD
TEST DATE : March 28-29, 2016
TEST MODE : See below
PROTOCOL : See below
DATA RATE : See below
NOTES : 40MHz bandwidth
:

Lo/Mid/Hi	Channel	Frequency MHz	802.11 Protocol	Rate Mbps	MIMO dB	PSD dBm	PSD+MIMO+DC dBm
Lo	38	5190	ac	15	4.77	3.66	8.92
Hi	46	5230	ac	15	4.77	-11.6	-6.34
Lo	38	5190	ac	30	4.77	3.84	9.50
Hi	46	5230	ac	30	4.77	-11.72	-6.06
Lo	38	5190	ac	45	4.77	3.86	9.70
Hi	46	5230	ac	45	4.77	-11.31	-5.47
Lo	38	5190	ac	60	4.77	4.51	10.67
Hi	46	5230	ac	60	4.77	-11.03	-4.87
Lo	38	5190	ac	90	4.77	4.11	10.70
Hi	46	5230	ac	90	4.77	-10.89	-4.30
Lo	38	5190	ac	120	4.77	4.59	11.46
Hi	46	5230	ac	120	4.77	-10.23	-3.36
Lo	38	5190	ac	135	4.77	4.4	11.58
Hi	46	5230	ac	135	4.77	-10.51	-3.33
Lo	38	5190	ac	150	4.77	4.71	11.87
Hi	46	5230	ac	150	4.77	-10.56	-3.40
Lo	38	5190	ac	180	4.77	4.63	11.86
Hi	46	5230	ac	180	4.77	-10.09	-2.86
Lo	38	5190	ac	200	4.77	4.58	11.89
Hi	46	5230	ac	200	4.77	-10.3	-2.99

Checked BY RICHARD E. King :

Richard E. King



MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : PSD
TEST DATE : March 28-29, 2016
TEST MODE : See below
PROTOCOL : See below
DATA RATE : See below
NOTES : 40MHz bandwidth
:

Lo/Mid/Hi	Channel	Frequency MHz	802.11 Protocol	Rate Mbps	MIMO dB	PSD dBm	PSD+MIMO+DC dBm
Lo	151	5755	n	15	4.77	2.82	8.08
Hi	159	5795	n	15	4.77	2.81	8.07
Lo	151	5755	n	30	4.77	2.84	8.50
Hi	159	5795	n	30	4.77	2.78	8.44
Lo	151	5755	n	45	4.77	2.87	8.71
Hi	159	5795	n	45	4.77	2.84	8.68
Lo	151	5755	n	60	4.77	2.72	8.88
Hi	159	5795	n	60	4.77	2.69	8.85
Lo	151	5755	n	90	4.77	2.81	9.40
Hi	159	5795	n	90	4.77	2.79	9.38
Lo	151	5755	n	120	4.77	2.89	9.76
Hi	159	5795	n	120	4.77	3.05	9.92
Lo	151	5755	n	135	4.77	2.94	10.12
Hi	159	5795	n	135	4.77	3.01	10.19
Lo	151	5755	n	150	4.77	2.87	10.03
Hi	159	5795	n	150	4.77	2.98	10.14

Checked BY RICHARD E. KING :

Richard E. King



MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : PSD
TEST DATE : March 28-29, 2016
TEST MODE : See below
PROTOCOL : See below
DATA RATE : See below
NOTES : 40MHz bandwidth
:

Lo/Mid/Hi	Channel	Frequency MHz	802.11 Protocol	Rate Mbps	MIMO dB	PSD dBm	PSD+MIMO+DC dBm
Lo	151	5755	ac	15	4.77	-2.23	3.03
Hi	159	5795	ac	15	4.77	3.2	8.46
Lo	151	5755	ac	30	4.77	-2.14	3.52
Hi	159	5795	ac	30	4.77	3.29	8.95
Lo	151	5755	ac	45	4.77	-1.99	3.85
Hi	46	5795	ac	45	4.77	3.51	9.35
Lo	151	5755	ac	60	4.77	-2.15	4.01
Hi	159	5795	ac	60	4.77	3.25	9.41
Lo	151	5755	ac	90	4.77	-2.13	4.46
Hi	159	5795	ac	90	4.77	3.45	10.04
Lo	151	5755	ac	120	4.77	-2.3	4.57
Hi	159	5795	ac	120	4.77	3.48	10.35
Lo	151	5755	ac	135	4.77	-1.98	5.20
Hi	159	5795	ac	135	4.77	3.48	10.66
Lo	151	5755	ac	150	4.77	-2.19	4.97
Hi	159	5795	ac	150	4.77	3.38	10.54
Lo	151	5755	ac	180	4.77	-2.11	5.12
Hi	159	5795	ac	180	4.77	3.56	10.79
Lo	151	5755	ac	200	4.77	-2.19	5.12
Hi	159	5795	ac	200	4.77	3.51	10.82

Checked BY Richard E. King :

Richard E. King



MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : PSD
TEST DATE : March 28-29, 2016
TEST MODE : See below
PROTOCOL : See below
DATA RATE : See below
NOTES : 40MHz bandwidth
:

Lo/Mid/Hi	Channel	Frequency MHz	802.11 Protocol	Rate Mbps	MIMO dB	PSD dBm	PSD+MIMO+DC dBm
Lo	151	5755	ac	15	4.77	-2.23	3.03
Hi	159	5795	ac	15	4.77	3.2	8.46
Lo	151	5755	ac	30	4.77	-2.14	3.52
Hi	159	5795	ac	30	4.77	3.29	8.95
Lo	151	5755	ac	45	4.77	-1.99	3.85
Hi	46	5795	ac	45	4.77	3.51	9.35
Lo	151	5755	ac	60	4.77	-2.15	4.01
Hi	159	5795	ac	60	4.77	3.25	9.41
Lo	151	5755	ac	90	4.77	-2.13	4.46
Hi	159	5795	ac	90	4.77	3.45	10.04
Lo	151	5755	ac	120	4.77	-2.3	4.57
Hi	159	5795	ac	120	4.77	3.48	10.35
Lo	151	5755	ac	135	4.77	-1.98	5.20
Hi	159	5795	ac	135	4.77	3.48	10.66
Lo	151	5755	ac	150	4.77	-2.19	4.97
Hi	159	5795	ac	150	4.77	3.38	10.54
Lo	151	5755	ac	180	4.77	-2.11	5.12
Hi	159	5795	ac	180	4.77	3.56	10.79
Lo	151	5755	ac	200	4.77	-2.19	5.12
Hi	159	5795	ac	200	4.77	3.51	10.82

Checked BY RICHARD E. KING :

Richard E. King



MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : PSD
TEST DATE : March 28-29, 2016
TEST MODE : See below
PROTOCOL : See below
DATA RATE : See below
NOTES : 80MHz bandwidth
:

Channel	Frequency MHz	802.11 Protocol	Rate Mbps	MIMO dB	PSD dBm	PSD+MIMO+DC dBm
42	5210	ac	32.5	4.77	-11.95	-6.27
42	5210	ac	65	4.77	-12.38	-6.13
42	5210	ac	97.5	4.77	-11.93	-5.25
42	5210	ac	130	4.77	-10.86	-3.85
42	5210	ac	195	4.77	-11.36	-4.02
42	5210	ac	260	4.77	-12.5	-4.77
42	5210	ac	292.5	4.77	-12.59	-4.71
42	5210	ac	325	4.77	-13.06	-5.04
42	5210	ac	390	4.77	-13	-4.62
42	5210	ac	433.3	4.77	-13.14	-4.68

Checked BY RICHARD E. King :

Richard E. King

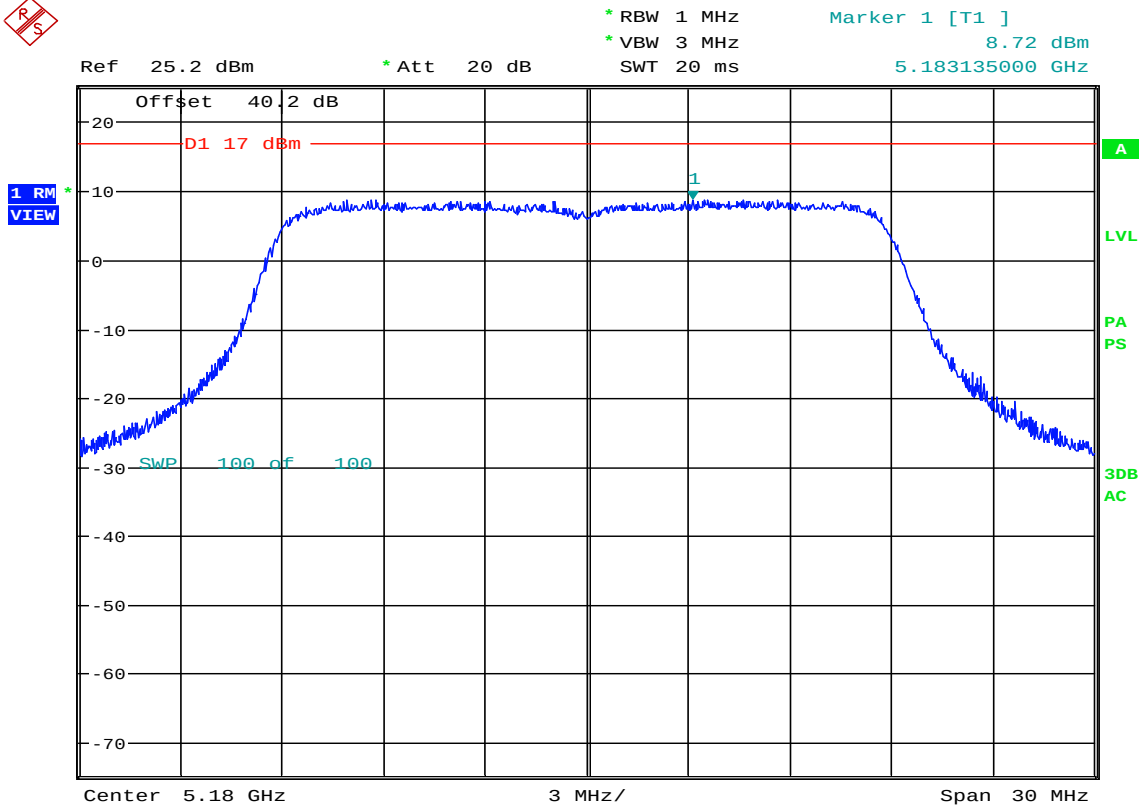


MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST PERFORMED : PSD
TEST DATE : March 28-29, 2016
TEST MODE : See below
PROTOCOL : See below
DATA RATE : See below
NOTES : 80MHz bandwidth
:

Channel	Frequency MHz	802.11 Protocol	Rate Mbps	MIMO dB	PSD dBm	PSD+MIMO+DC dBm
155	5775	ac	32.5	4.77	-3.6	2.08
155	5775	ac	65	4.77	-3.8	2.45
155	5775	ac	97.5	4.77	-3.81	2.87
155	5775	ac	130	4.77	-2.84	4.17
155	5775	ac	195	4.77	-3.45	3.89
155	5775	ac	260	4.77	-3.55	4.18
155	5775	ac	292.5	4.77	-3.78	4.10
155	5775	ac	325	4.77	-3.8	4.22
155	5775	ac	390	4.77	-3.53	4.85
155	5775	ac	433.3	4.77	-3.57	4.89

Checked BY RICHARD E. KING :

Richard E. King

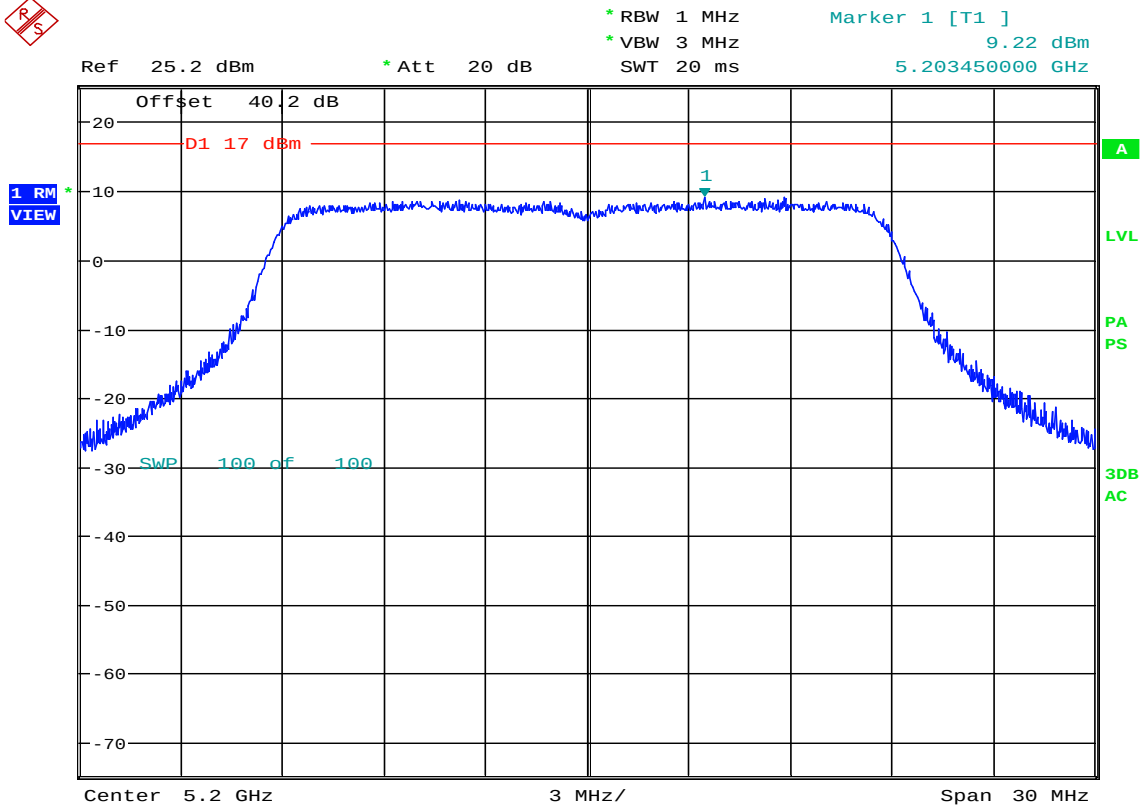


Date: 21.APR.2016 15:11:34

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST MODE : Tx @ LOW Channel UNII I
: RMS detector
NOTES : 802.11 ac (20 MHz)
NOTES : 28.9Mbps
NOTES :

NOTES

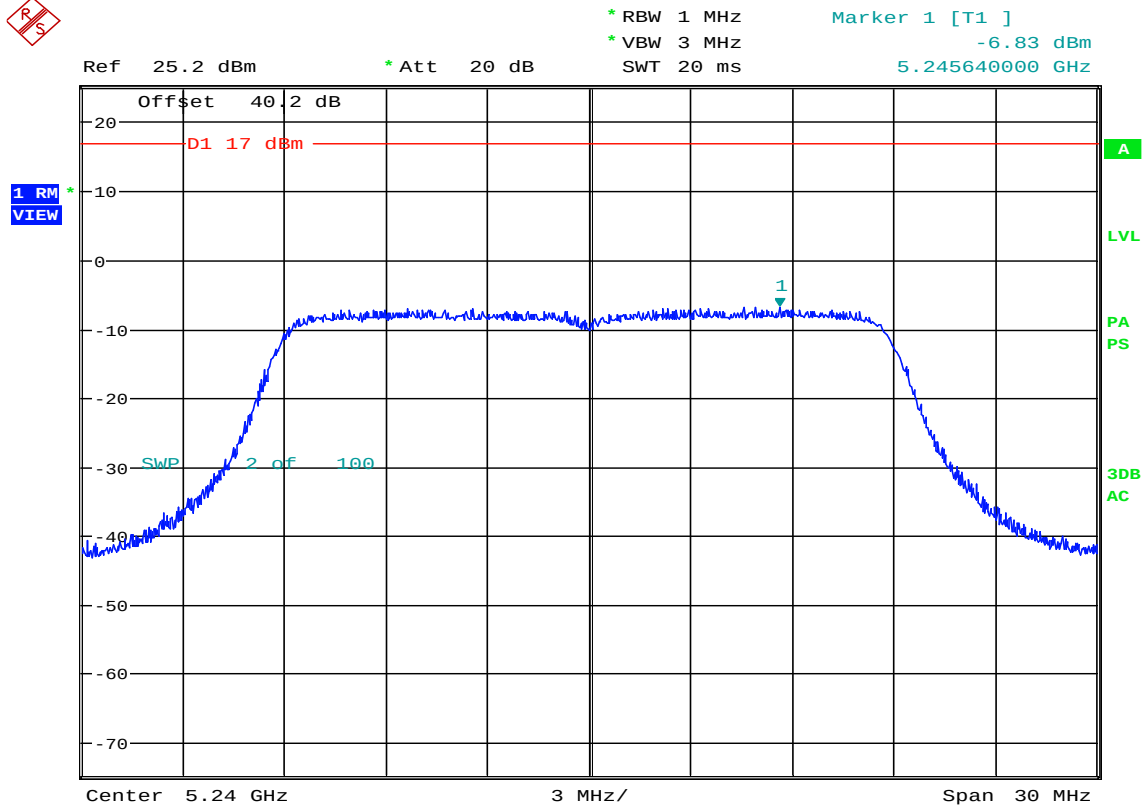


Date: 21.APR.2016 15:14:17

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST MODE : Tx @ MID Channel UNII I
: RMS detector
NOTES : 802.11 ac (20 MHz)
NOTES : 86.7Mbps
NOTES :

NOTES

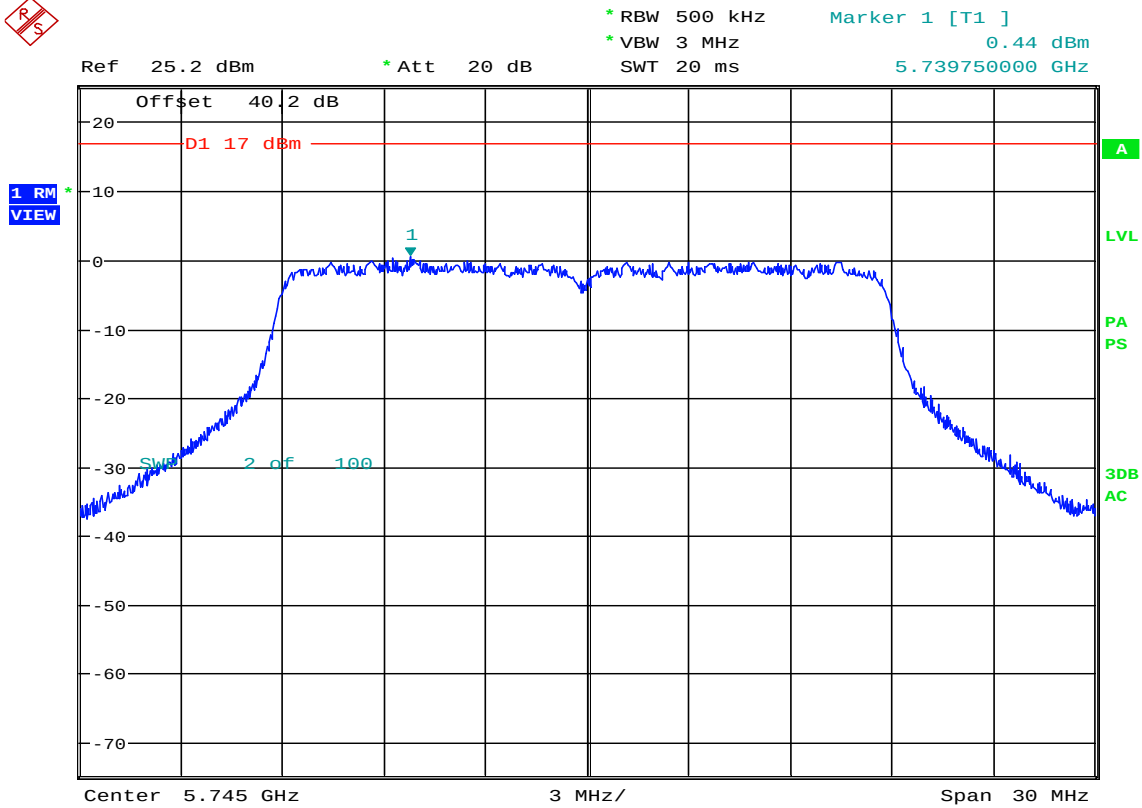


Date: 21.APR.2016 15:17:14

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST MODE : Tx @ HIGH Channel UNII I
: RMS detector
NOTES : 802.11 ac (20 MHz)
NOTES : 28.9Mbps
NOTES :

NOTES

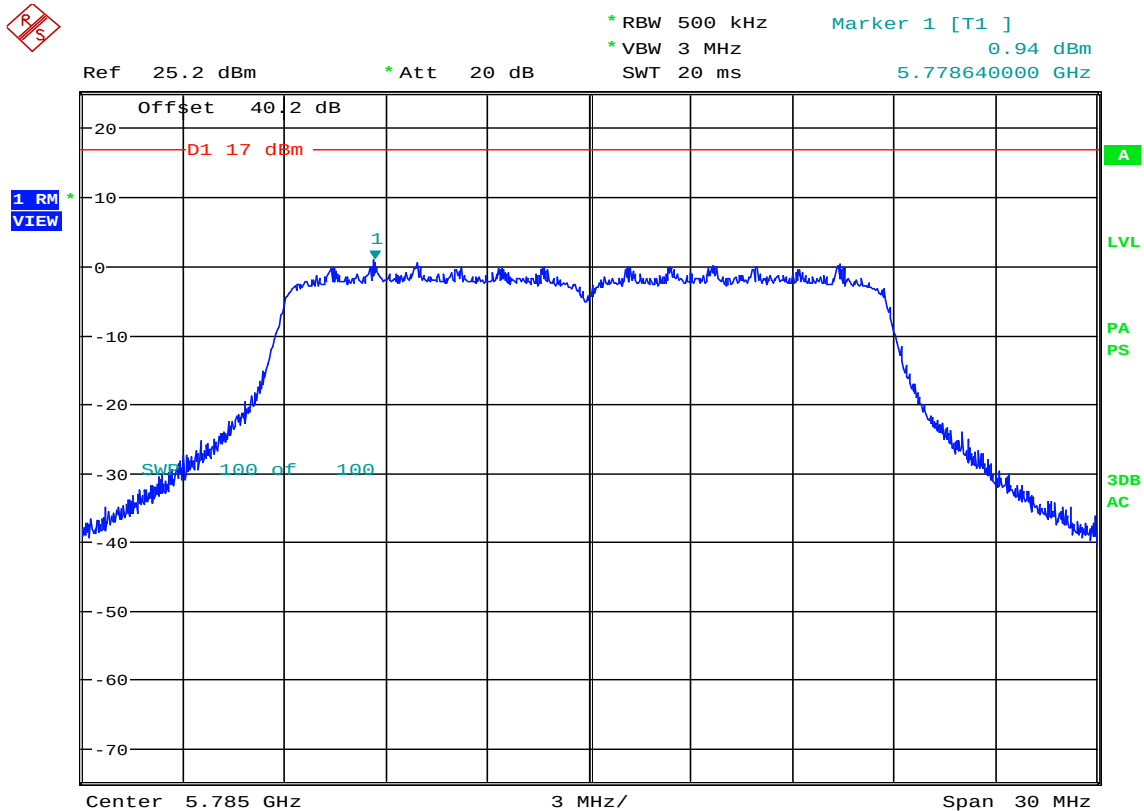


Date: 21.APR.2016 15:08:04

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST MODE : Tx @ LOW Channel UNII III
: RMS detector
NOTES : 802.11 ac (20 MHz)
NOTES : 65Mbps
NOTES :

NOTES

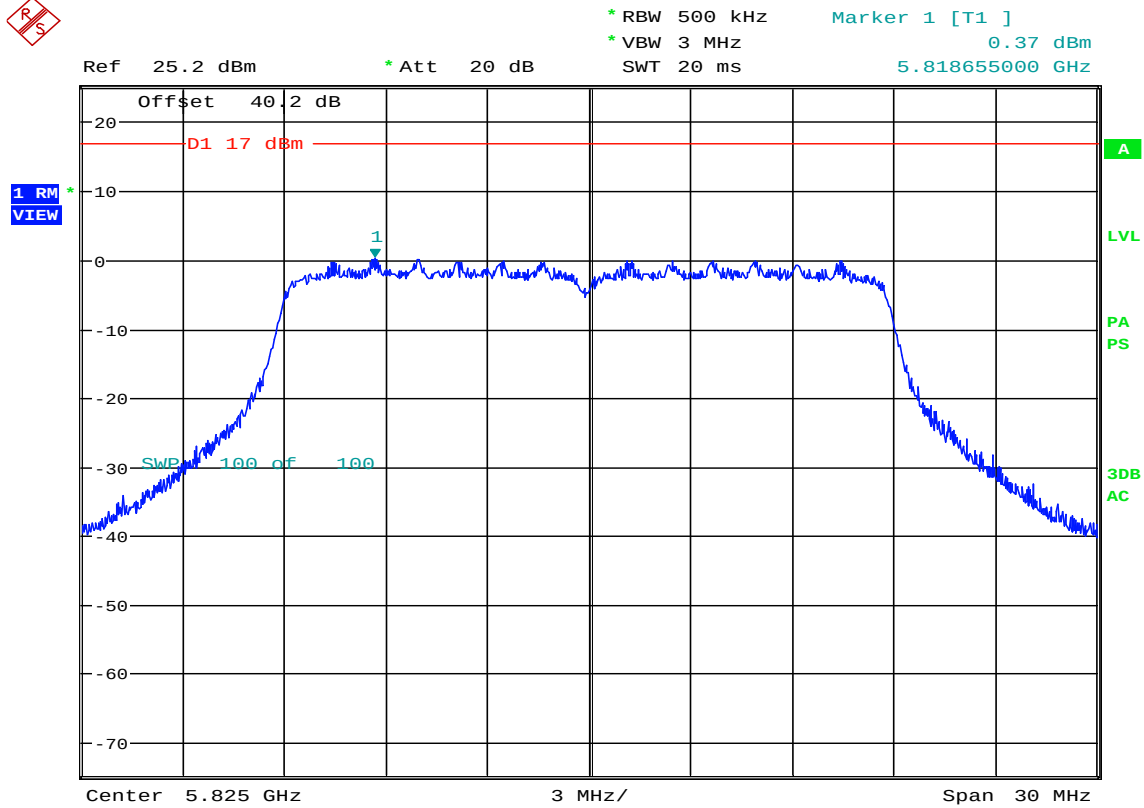


Date: 21.APR.2016 15:05:05

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
 MODEL NUMBER : RP-WF12
 TEST MODE : Tx @ MID Channel UNII III
 : RMS detector
 NOTES : 802.11 ac (20 MHz)
 NOTES : 7.2Mbps
 NOTES :

NOTES

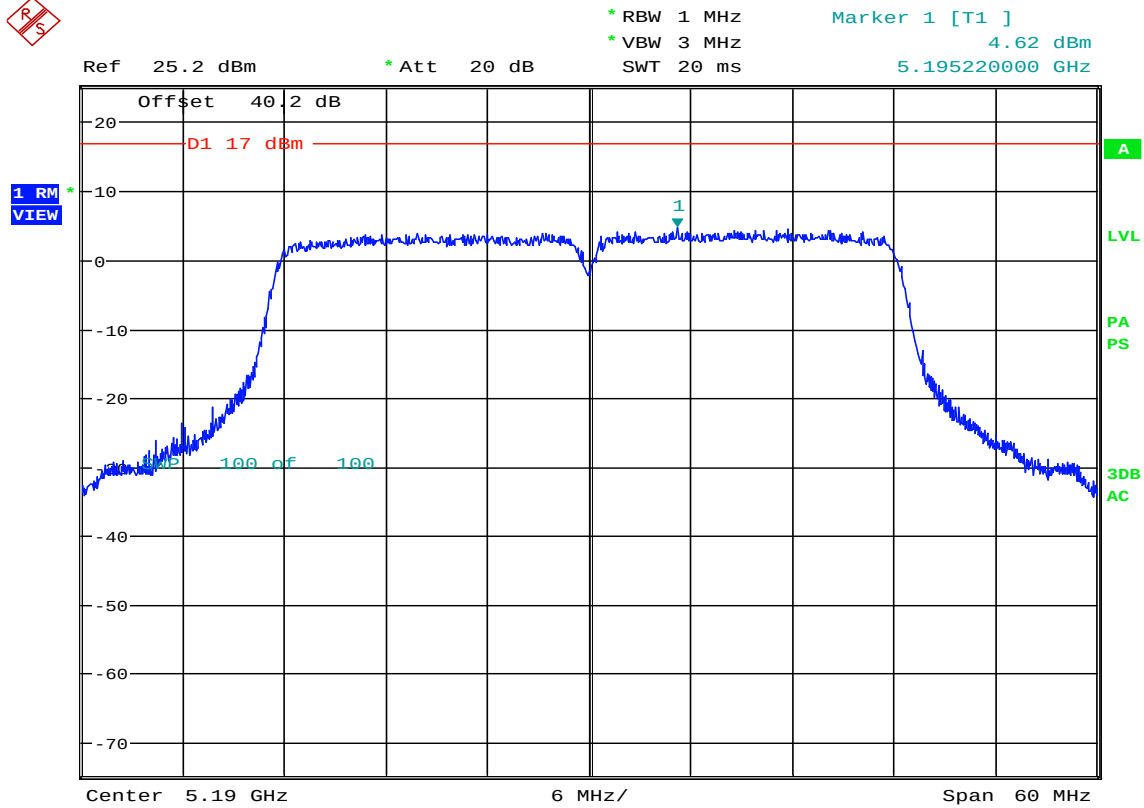


Date: 21.APR.2016 15:02:30

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST MODE : Tx @ HIGH Channel UNII III
: RMS detector
NOTES : 802.11 ac (20 MHz)
NOTES : 14.4Mbps
NOTES :

NOTES

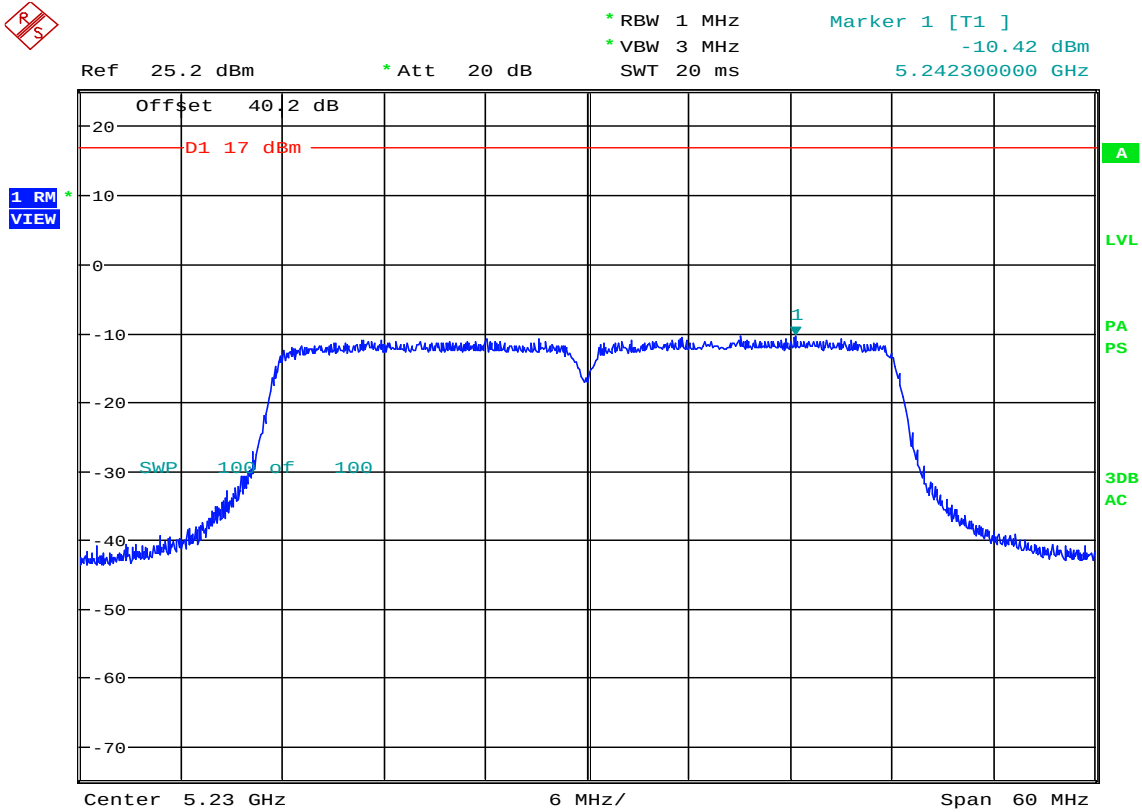


Date: 21.APR.2016 15:35:20

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST MODE : Tx @ LOW Channel UNII I
 : RMS detector
NOTES : 802.11 ac (40 MHz)
NOTES : 150Mbps
NOTES :

NOTES

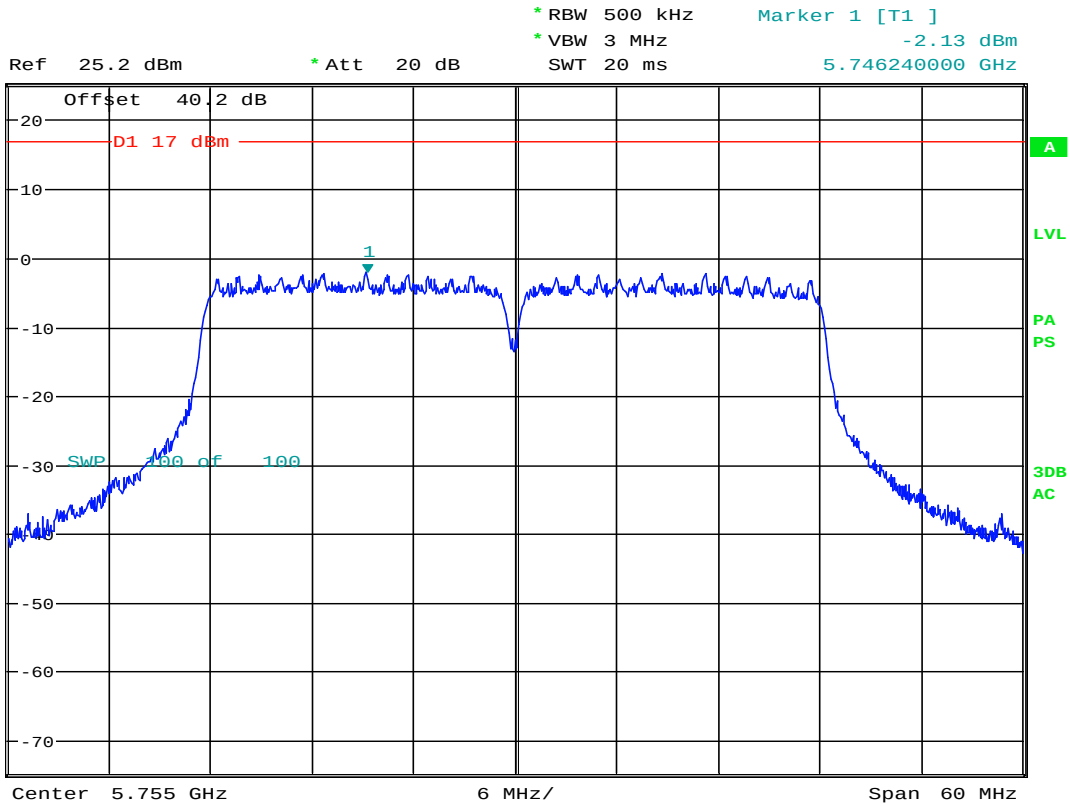


Date: 21.APR.2016 15:37:40

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST MODE : Tx @ HIGH Channel UNII I
: RMS detector
NOTES : 802.11 ac (40 MHz)
NOTES : 180Mbps
NOTES :

NOTES

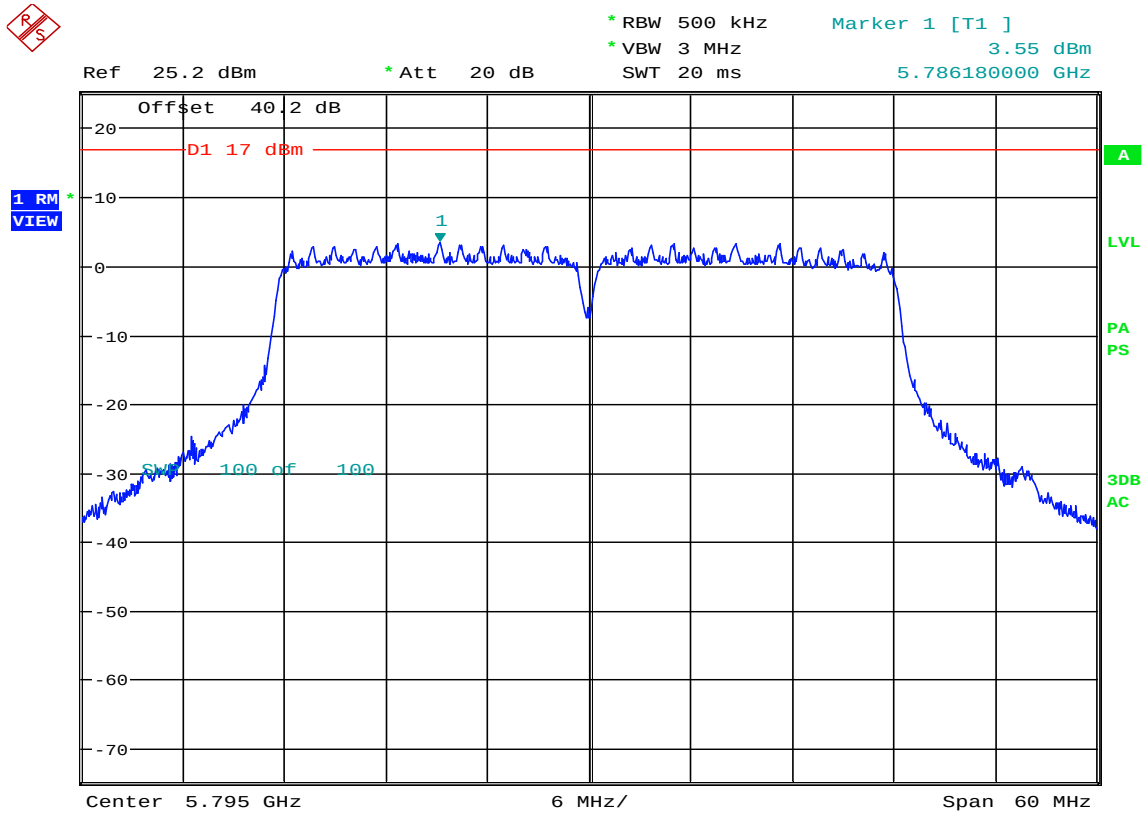


Date: 21.APR.2016 15:33:17

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
 MODEL NUMBER : RP-WF12
 TEST MODE : Tx @ LOW Channel UNII III
 : RMS detector
 NOTES : 802.11 ac (40 MHz)
 NOTES : 45Mbps
 NOTES :

NOTES

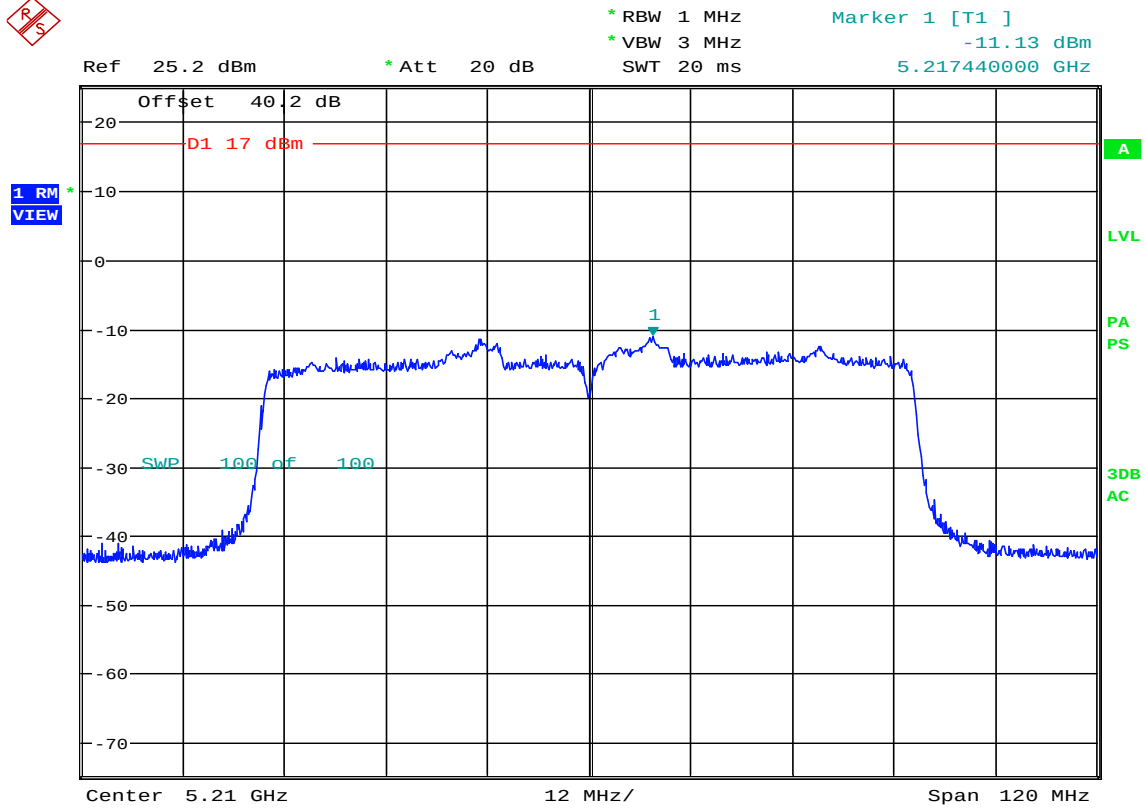


Date: 21.APR.2016 15:30:38

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
 MODEL NUMBER : RP-WF12
 TEST MODE : Tx @ HIGH Channel UNII III
 : RMS detector
 NOTES : 802.11 ac (40 MHz)
 NOTES : 45Mbps
 NOTES :

NOTES

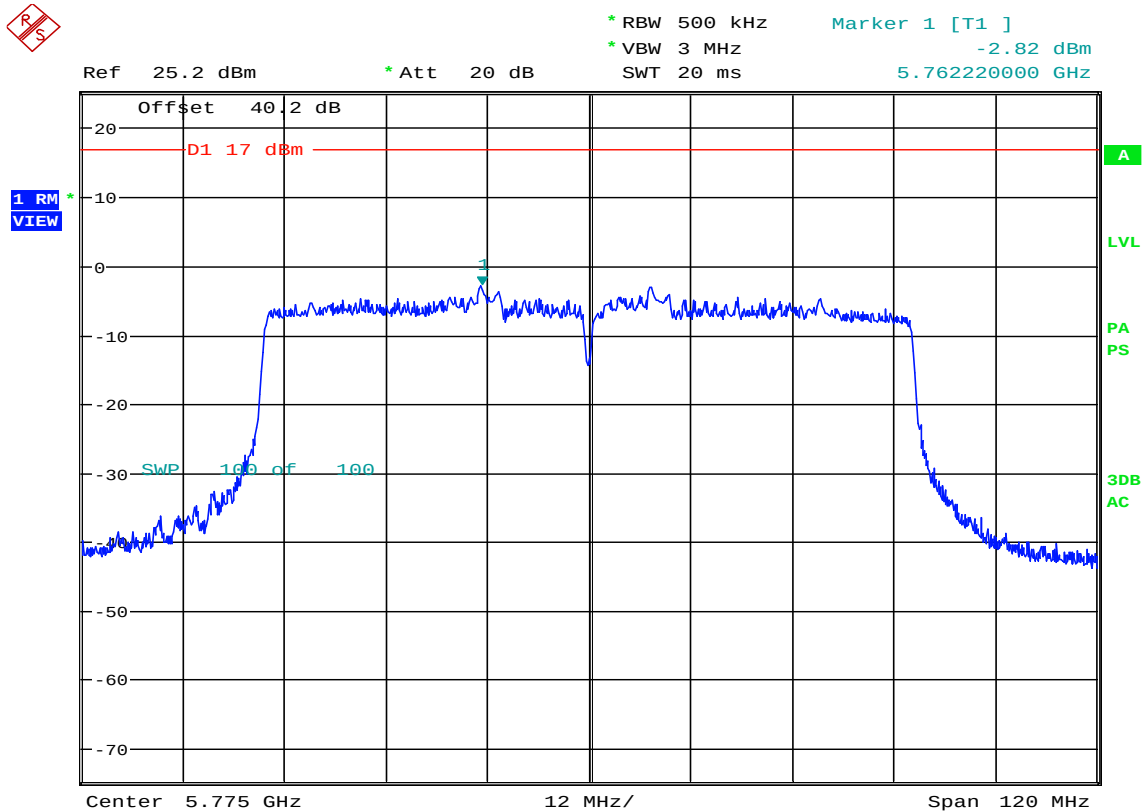


Date: 21.APR.2016 15:42:03

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST MODE : Tx @ 5210MHz UNII I
: RMS detector
NOTES : 802.11 ac (80 MHz)
NOTES : 130Mbps
NOTES :

NOTES

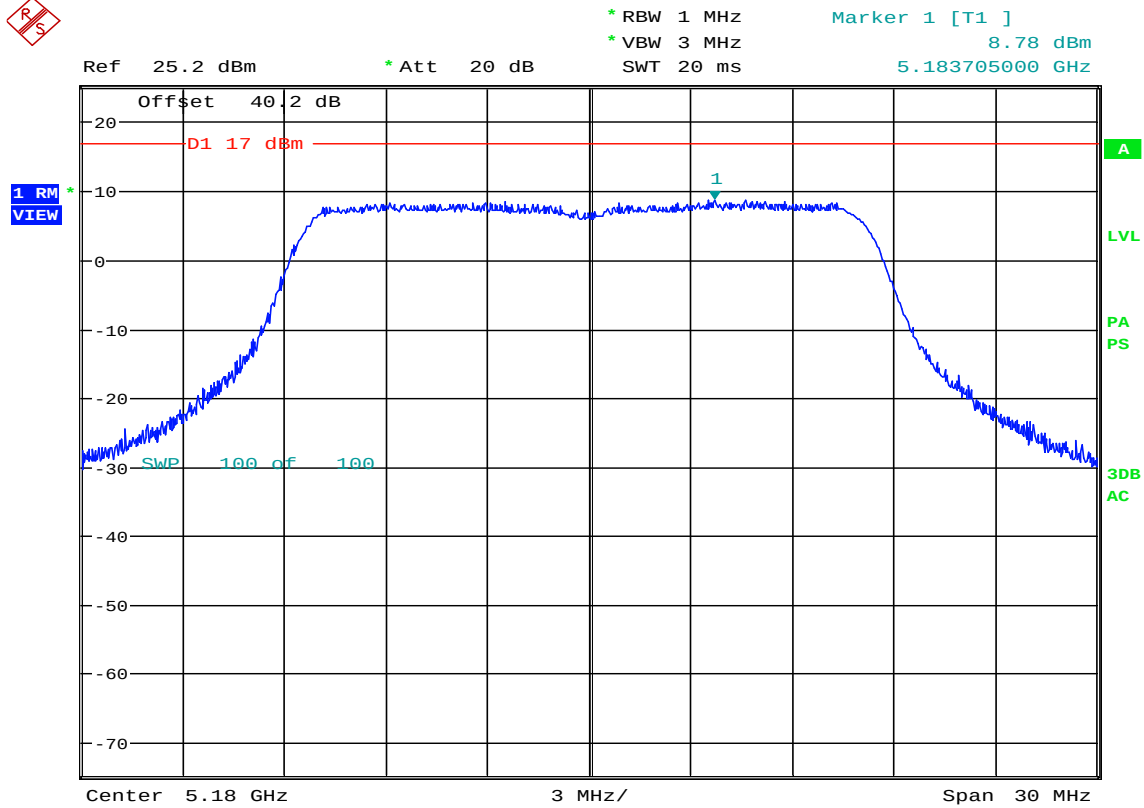


Date: 21.APR.2016 15:45:03

FCC 15C 15.407 / Power Spectral Density

```
MANUFACTURER      : Winegard Co.
MODEL NUMBER      : RP-WF12
TEST MODE         : Tx @ 5775MHz UNII I
                  : RMS detector
NOTES             : 802.11 ac (80 MHz)
NOTES             : 130Mbps
NOTES             :
```

NOTES

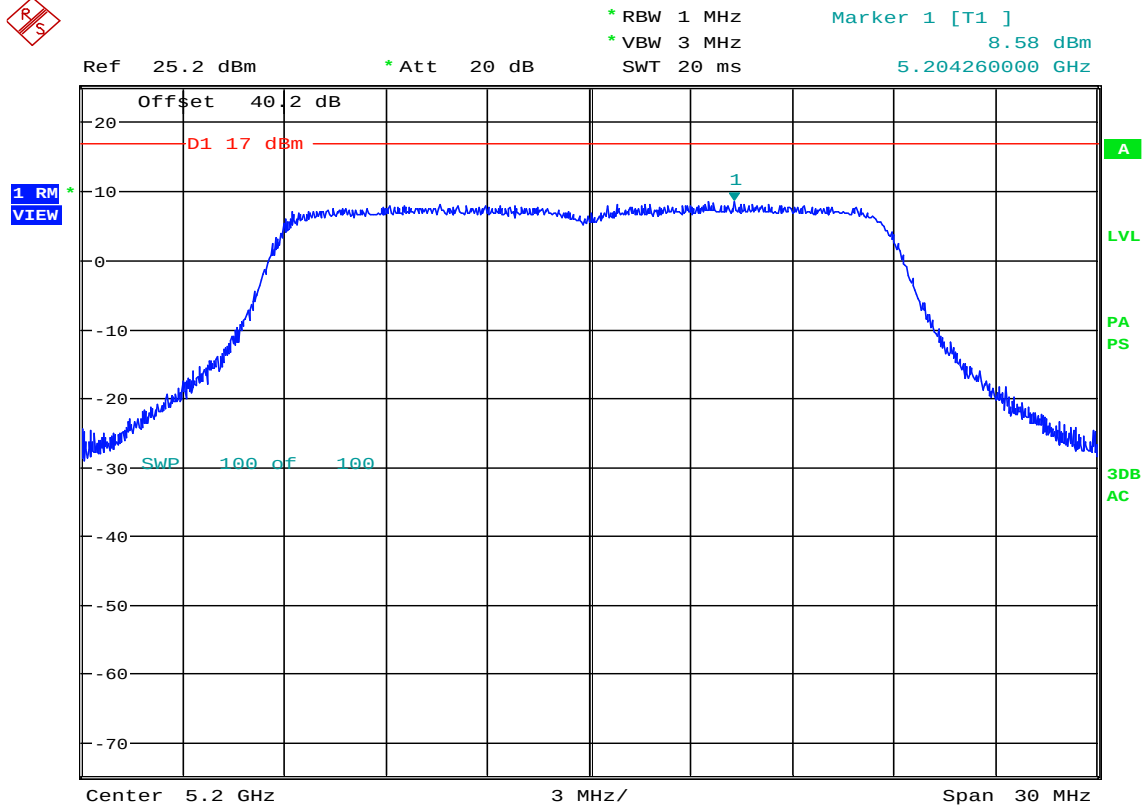


Date: 21.APR.2016 14:45:47

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST MODE : Tx @ LOW Channel UNII I
 : RMS detector
NOTES : 802.11 n (20 MHz)
NOTES : 43.3Mbps
NOTES :

NOTES

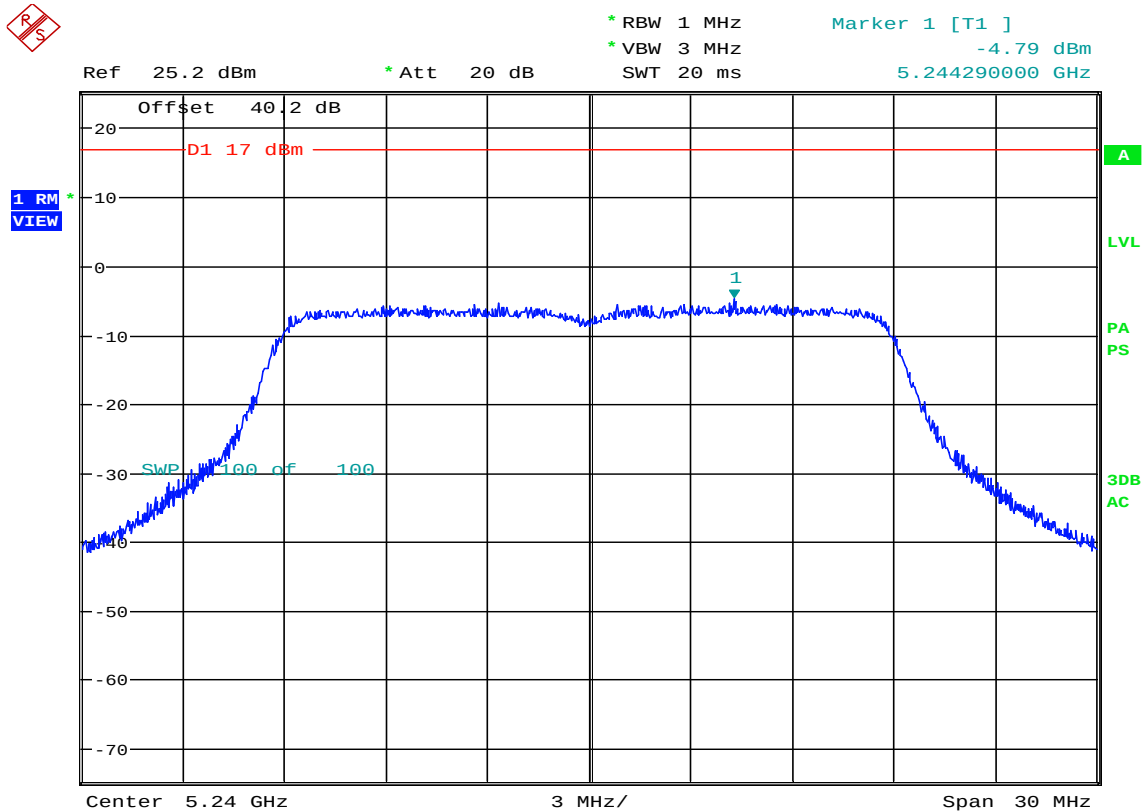


Date: 21.APR.2016 14:49:04

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST MODE : Tx @ MID Channel UNII I
 : RMS detector
NOTES : 802.11 n (20 MHz)
NOTES : 72.2Mbps
NOTES :

NOTES

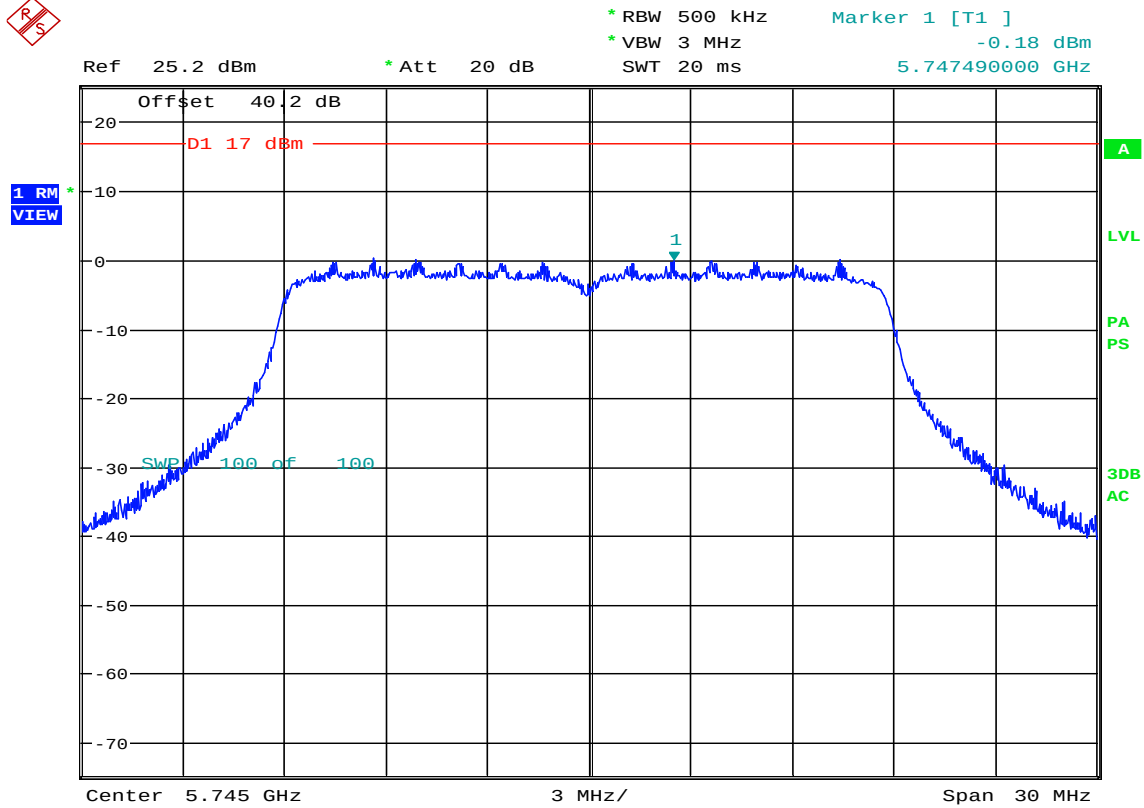


Date: 21.APR.2016 14:52:10

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST MODE : Tx @ HIGH Channel UNII I
: RMS detector
NOTES : 802.11 n (20 MHz)
NOTES : 72.2Mbps
NOTES :

NOTES

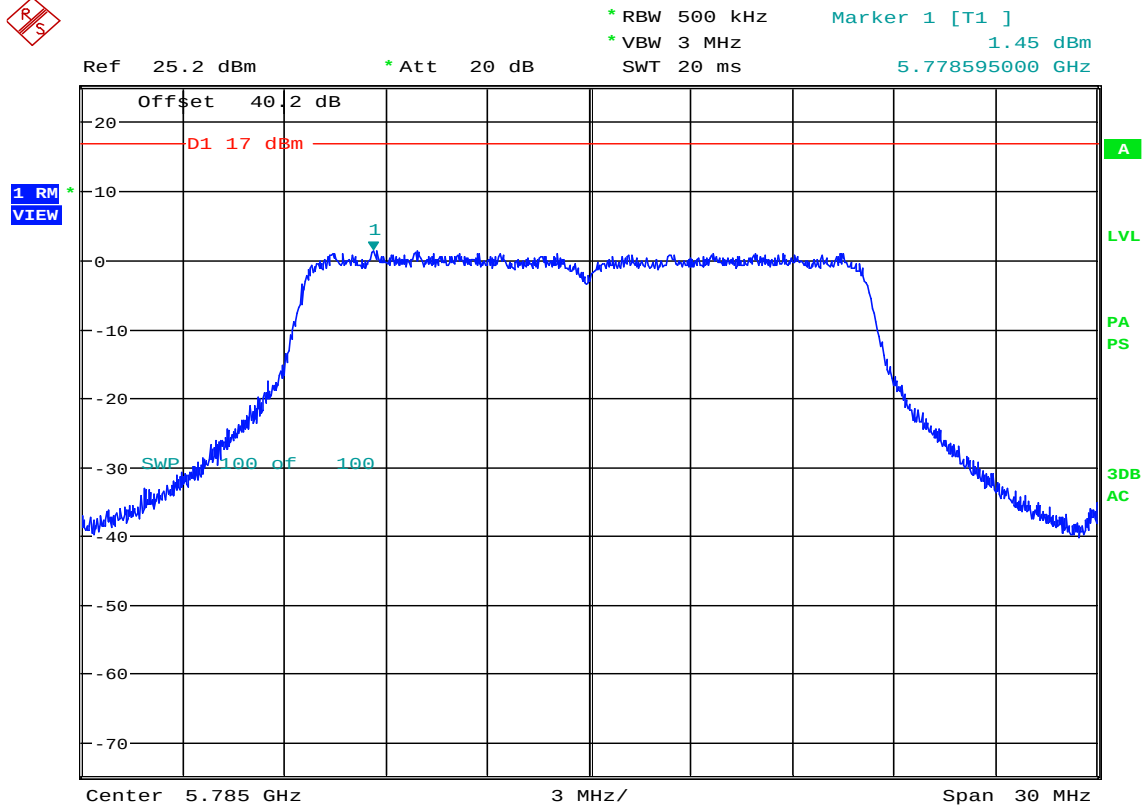


Date: 21.APR.2016 14:54:38

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST MODE : Tx @ LOW Channel UNII III
NOTES : RMS detector
NOTES : 802.11 n (20 MHz)
NOTES : 7.2Mbps
NOTES :

NOTES

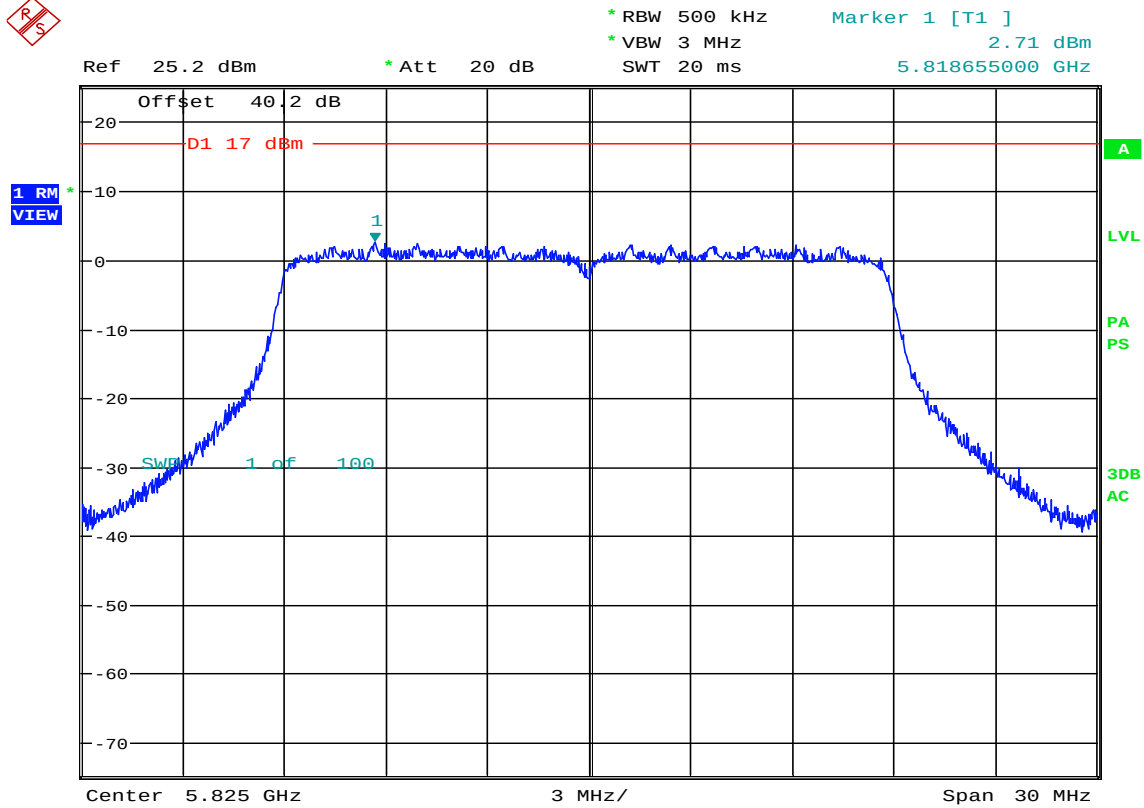


Date: 21.APR.2016 14:57:31

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST MODE : Tx @ MID Channel UNII III
: RMS detector
NOTES : 802.11 n (20 MHz)
NOTES : 43.3Mbps
NOTES :

NOTES



Date: 21.APR.2016 14:59:31

FCC 15C 15.407 / Power Spectral Density

MANUFACTURER : Winegard Co.
MODEL NUMBER : RP-WF12
TEST MODE : Tx @ HIGH Channel UNII III
: RMS detector
NOTES : 802.11 n (20 MHz)
NOTES : 28.9Mbps
NOTES :

NOTES