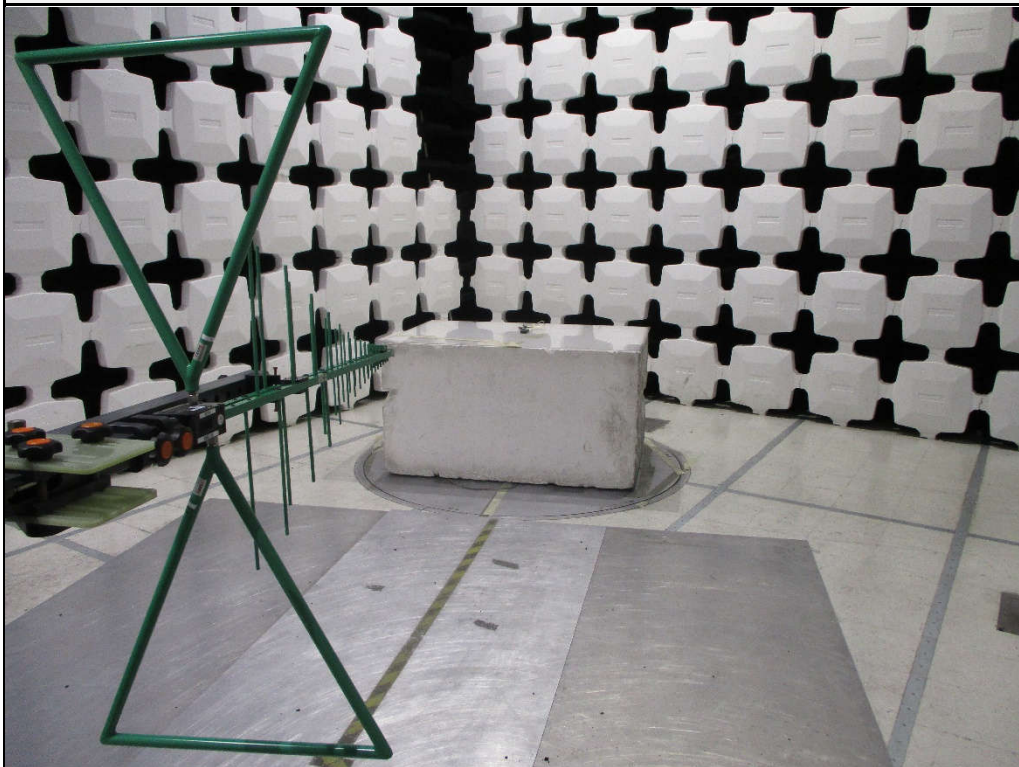
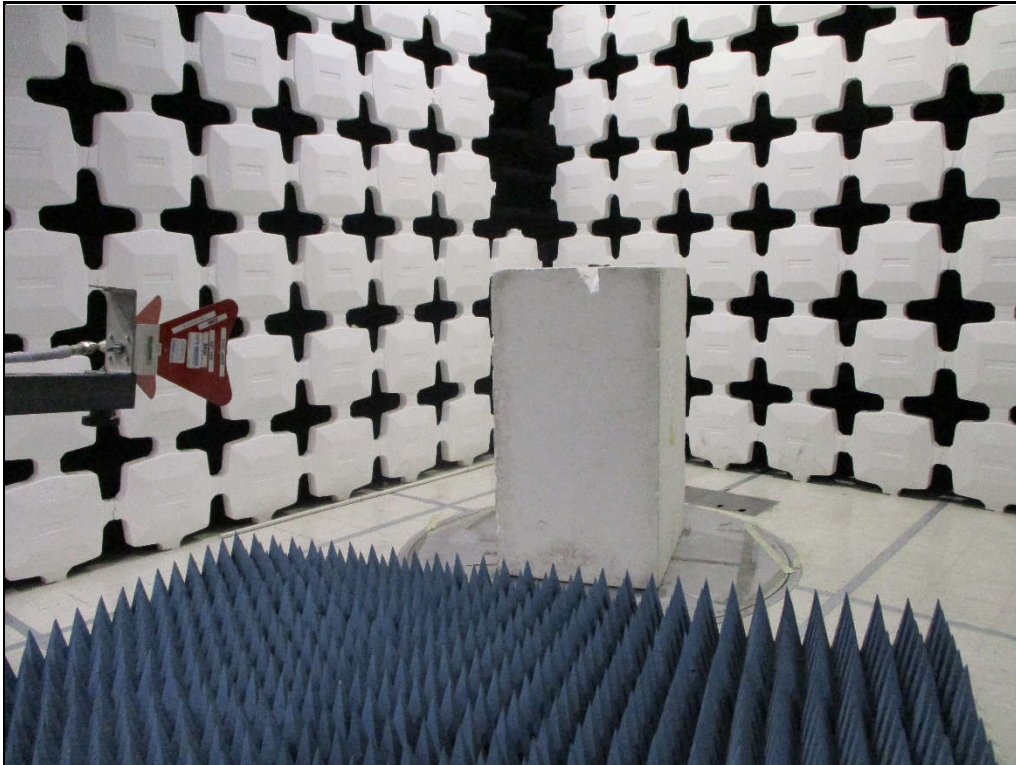


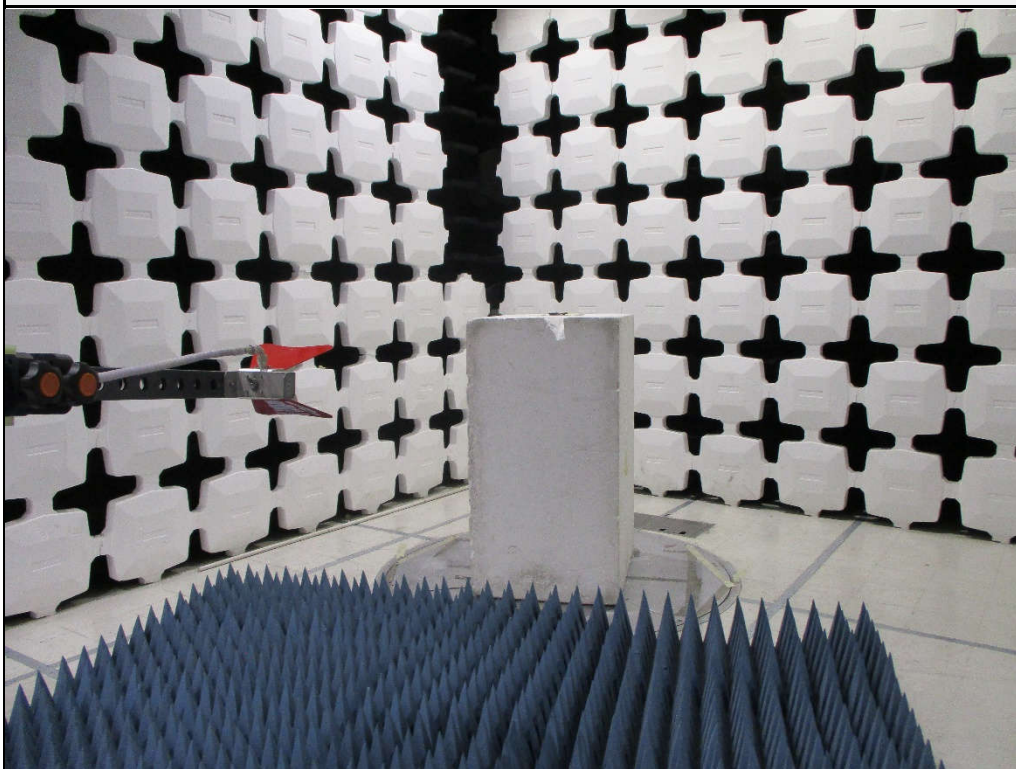
Test Setup for Spurious Radiated Emissions, 30-1000MHz – Antenna Polarization Horizontal



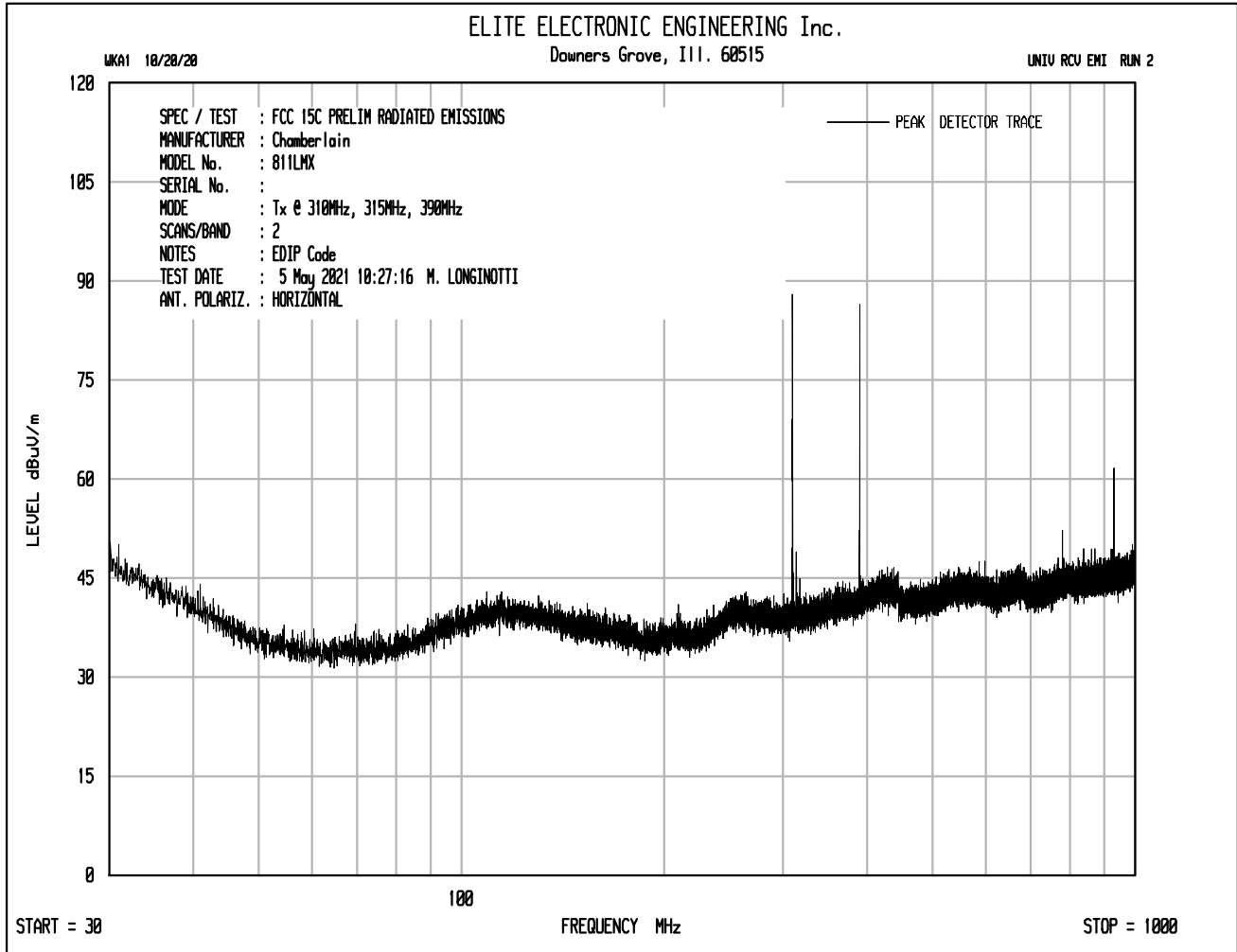
Test Setup for Spurious Radiated Emissions, 30-1000MHz – Antenna Polarization Vertical

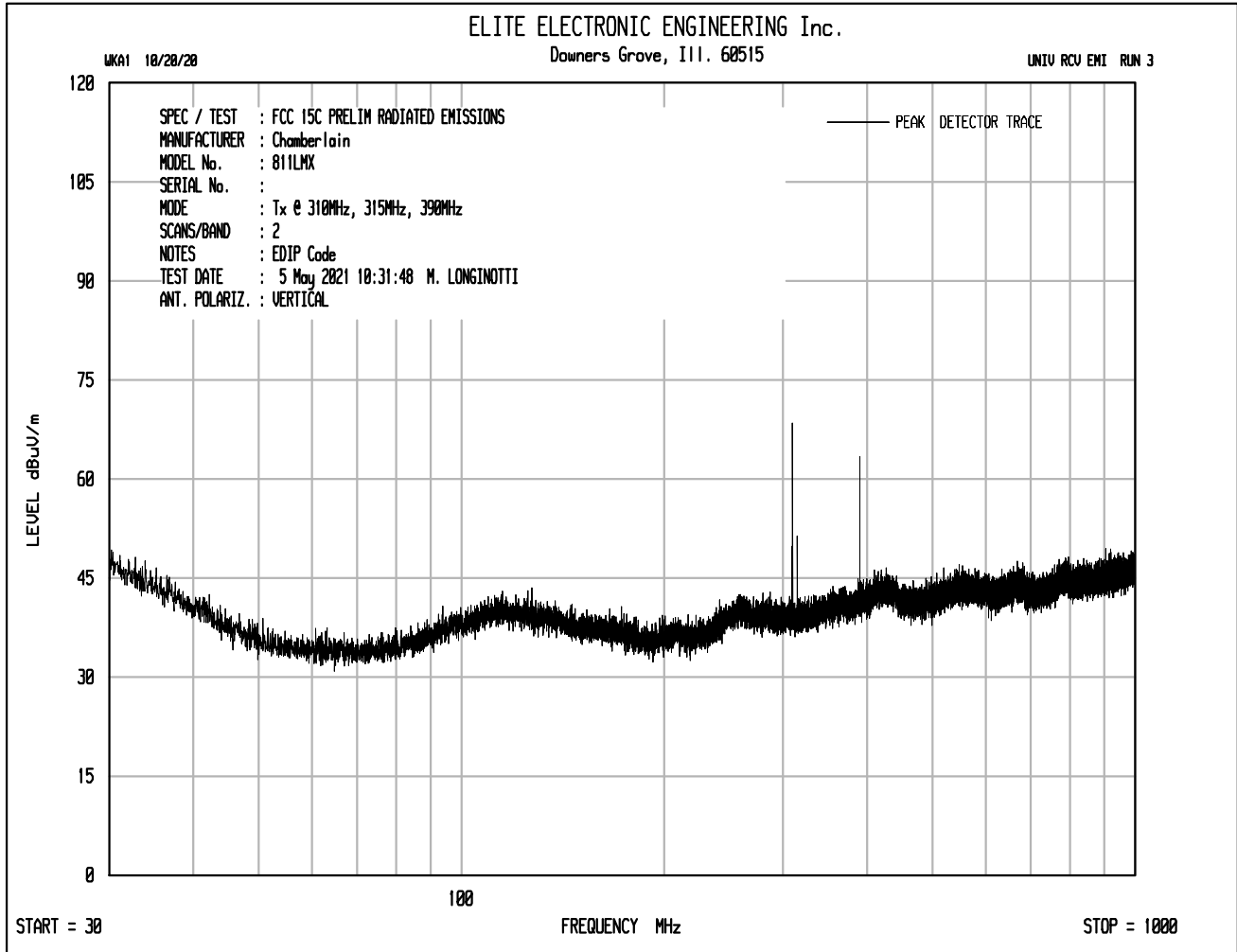


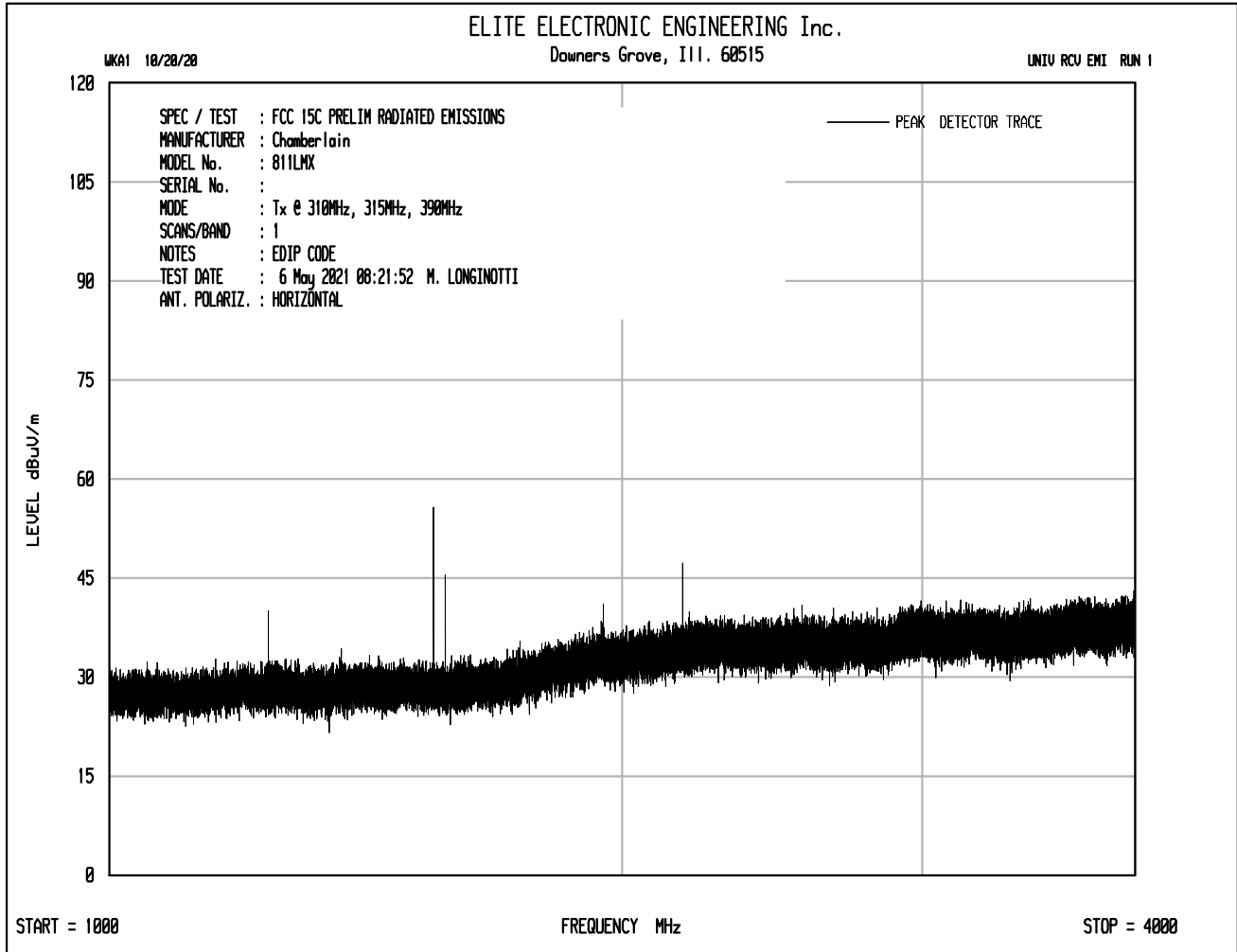
Test Setup for Spurious Radiated Emissions, Above 1GHz – Antenna Polarization Horizontal

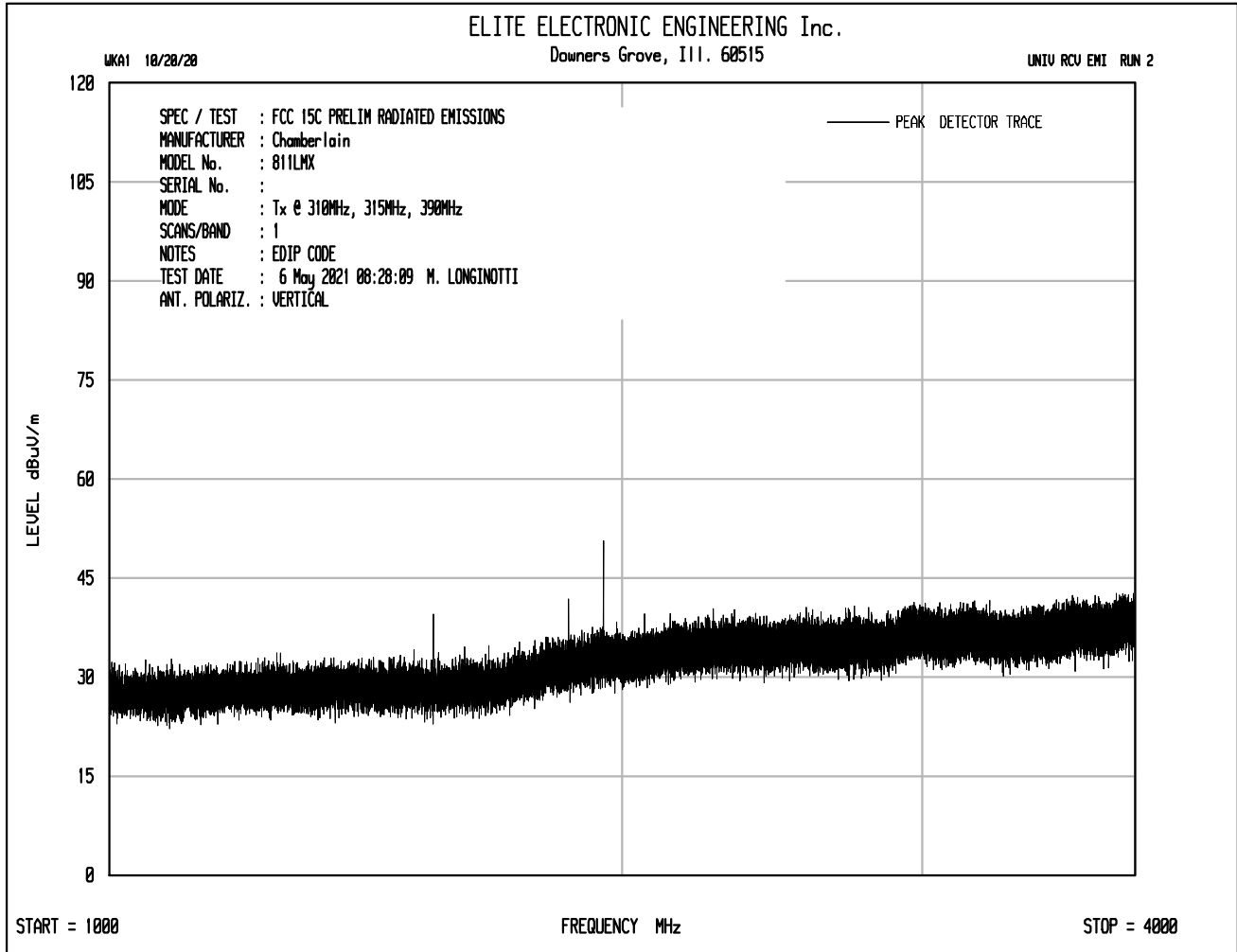


Test Setup for Spurious Radiated Emissions, Above 1GHz – Antenna Polarization Vertical









Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	811LMX
S/N	None Assigned
Mode	Continuous Transmission
Carrier Frequency	310MHz
Requirements	Field Strength of Carrier Limit = 5833.3µV/m
Notes	EDIP Code

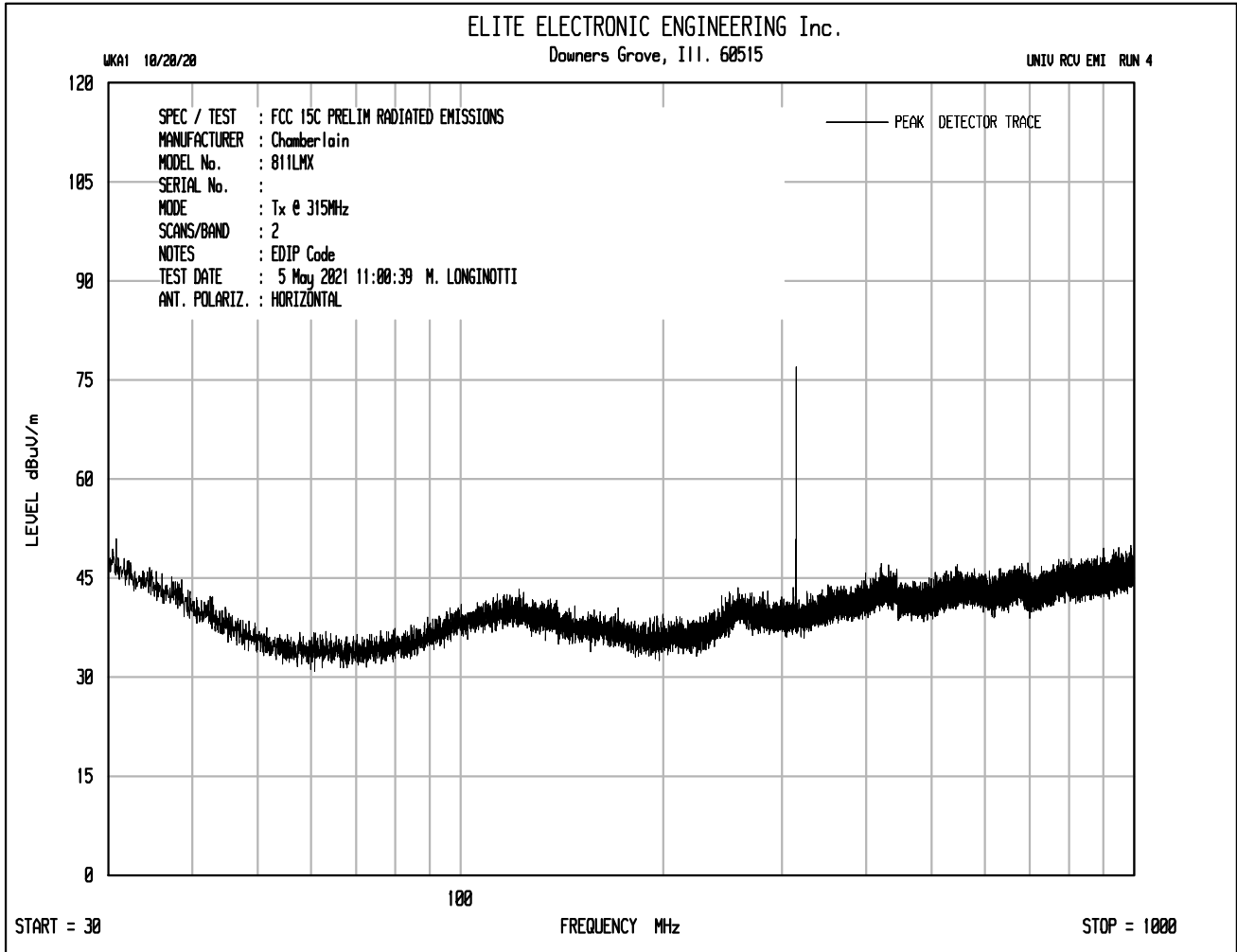
Freq. MHz	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBUV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
310.000	H	68.5		0.9	19.2	0.0	-13.3	75.3	5826.7	5833.3	0.0
310.000	V	50.8		0.9	19.2	0.0	-13.3	57.6	759.3	5833.3	-17.7
620.000	H	14.3		1.3	24.5	0.0	-13.3	26.8	21.8	583.3	-28.5
620.000	V	10.3		1.3	24.5	0.0	-13.3	22.8	13.8	583.3	-32.5
930.000	H	33.5		1.6	26.7	0.0	-13.3	48.5	265.6	583.3	-6.8
930.000	V	27.2		1.6	26.7	0.0	-13.3	42.2	128.6	583.3	-13.1
1240.000	H	18.4		1.8	29.8	0.0	-13.3	36.8	69.0	500.0	-17.2
1240.000	V	18.6		1.8	29.8	0.0	-13.3	37.0	70.6	500.0	-17.0
1550.000	H	26.4		2.1	29.1	0.0	-13.3	44.3	164.7	500.0	-9.6
1550.000	V	24.2		2.1	29.1	0.0	-13.3	42.1	127.8	500.0	-11.8
1860.000	H	23.6		2.3	31.9	0.0	-13.3	44.5	168.2	583.3	-10.8
1860.000	V	19.5		2.3	31.9	0.0	-13.3	40.4	104.9	583.3	-14.9
2170.000	H	23.5		2.5	32.5	0.0	-13.3	45.2	182.0	583.3	-10.1
2170.000	V	19.9		2.5	32.5	0.0	-13.3	41.6	120.3	583.3	-13.7
2480.000	H	18.2	Ambient	2.7	33.2	0.0	-13.3	40.8	110.1	583.3	-14.5
2480.000	V	17.4	Ambient	2.7	33.2	0.0	-13.3	40.0	100.4	583.3	-15.3
2790.000	H	19.4	Ambient	2.8	33.6	0.0	-13.3	42.6	134.5	500.0	-11.4
2790.000	V	17.4	Ambient	2.8	33.6	0.0	-13.3	40.6	106.8	500.0	-13.4
3100.000	H	17.9	Ambient	3.0	33.4	0.0	-13.3	41.0	112.2	583.3	-14.3
3100.000	V	11.3	Ambient	3.0	33.4	0.0	-13.3	34.4	52.5	583.3	-20.9

Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	811LMX
S/N	None Assigned
Mode	Continuous Transmission
Carrier Frequency	315MHz
Requirements	Field Strength of Carrier Limit = 6041.7µV/m
Notes	EDIP Code

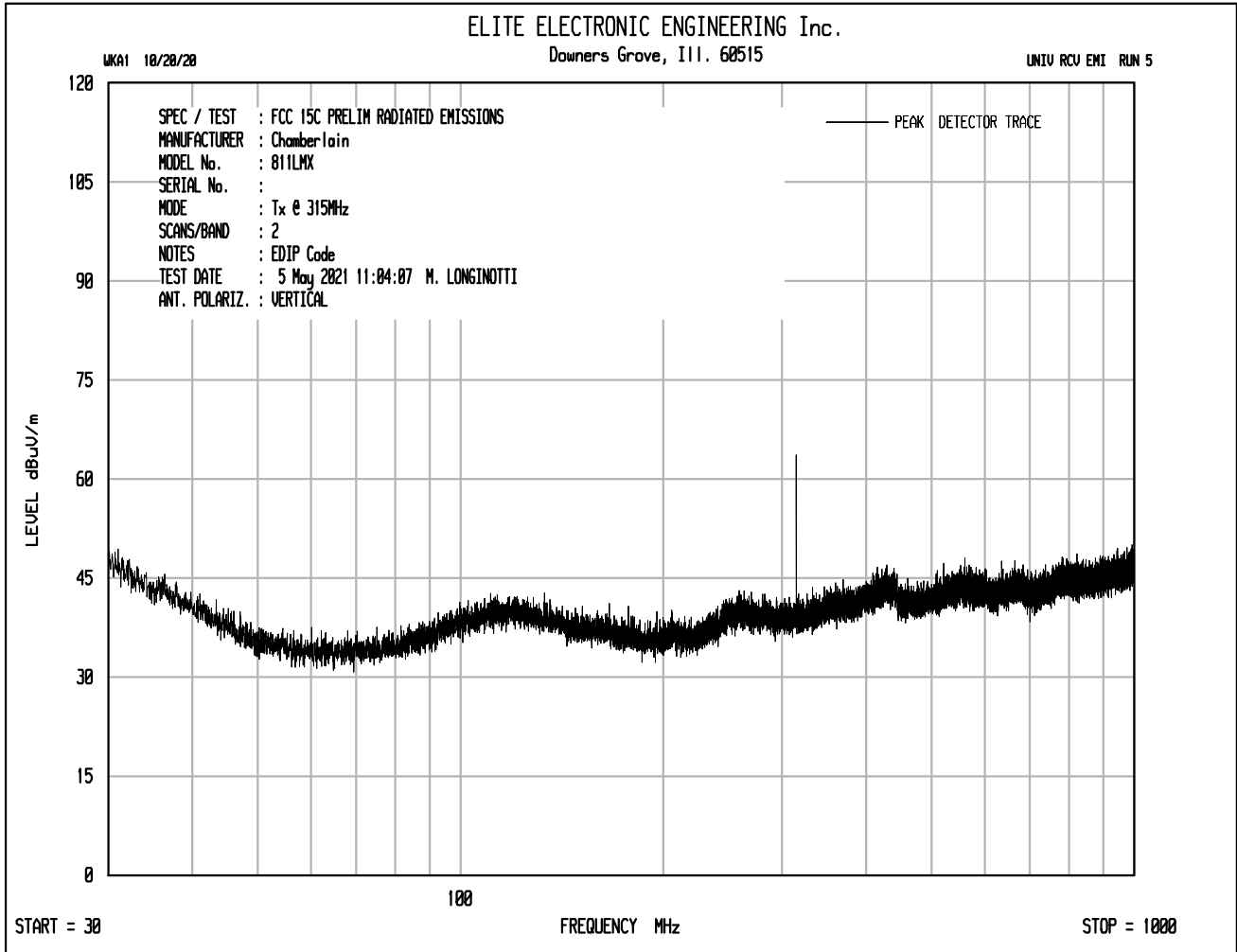
Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
315.000	H	67.4		0.9	19.3	0.0	-13.2	74.5	5279.8	6041.7	-1.2
315.000	V	53.5		0.9	19.3	0.0	-13.2	60.6	1065.7	6041.7	-15.1
630.000	H	7.1		1.3	25.0	0.0	-13.2	20.3	10.3	604.2	-35.4
630.000	V	6.4		1.3	25.0	0.0	-13.2	19.6	9.5	604.2	-36.1
945.000	H	24.9		1.6	27.0	0.0	-13.2	40.3	103.1	604.2	-15.4
945.000	V	15.5		1.6	27.0	0.0	-13.2	30.9	35.0	604.2	-24.8
1260.000	H	14.5	Ambient	1.9	29.8	0.0	-13.2	33.0	44.6	604.2	-22.6
1260.000	V	14.7	Ambient	1.9	29.8	0.0	-13.2	33.2	45.6	604.2	-22.4
1575.000	H	21.1		2.1	29.3	0.0	-13.2	39.3	92.5	500.0	-14.7
1575.000	V	17.5		2.1	29.3	0.0	-13.2	35.7	61.1	500.0	-18.3
1890.000	H	19.4	Ambient	2.3	32.3	0.0	-13.2	40.8	109.2	604.2	-14.9
1890.000	V	16.1	Ambient	2.3	32.3	0.0	-13.2	37.5	74.7	604.2	-18.2
2205.000	H	17.4	Ambient	2.5	32.5	0.0	-13.2	39.2	91.5	500.0	-14.8
2205.000	V	17.4	Ambient	2.5	32.5	0.0	-13.2	39.2	91.5	500.0	-14.8
2520.000	H	16.3	Ambient	2.7	33.6	0.0	-13.2	39.4	93.2	604.2	-16.2
2520.000	V	16.1	Ambient	2.7	33.6	0.0	-13.2	39.2	91.1	604.2	-16.4
2835.000	H	17.2	Ambient	2.9	33.2	0.0	-13.2	40.1	101.5	500.0	-13.9
2835.000	V	16.7	Ambient	2.9	33.2	0.0	-13.2	39.6	95.8	500.0	-14.4
3150.000	H	17.0	Ambient	3.0	33.7	0.0	-13.2	40.5	106.0	604.2	-15.1
3150.000	V	17.3	Ambient	3.0	33.7	0.0	-13.2	40.8	109.7	604.2	-14.8

Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	811LMX
S/N	None Assigned
Mode	Continuous Transmission
Carrier Frequency	390MHz
Requirements	Field Strength of Carrier Limit = 9166.7 μ V/m
Notes	EDIP Code

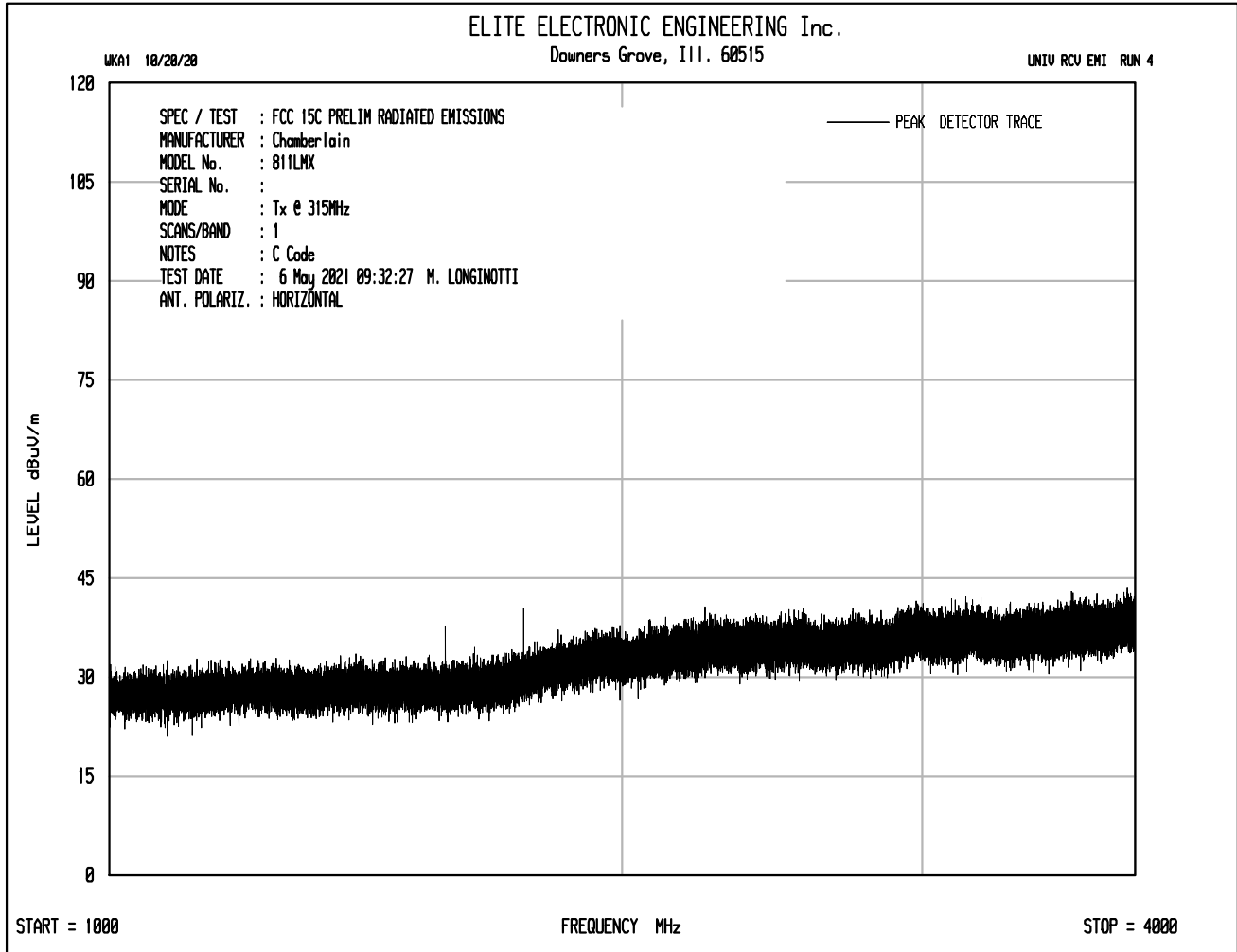
Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
390.000	H	65.5		1.0	21.5	0.0	-13.3	74.7	5461.0	9166.7	-4.5
390.000	V	43.2		1.0	21.5	0.0	-13.3	52.4	419.1	9166.7	-26.8
780.000	H	25.1		1.4	25.9	0.0	-13.3	39.1	90.0	916.7	-20.2
780.000	V	21.8		1.4	25.9	0.0	-13.3	35.8	61.6	916.7	-23.5
1170.000	H	30.2		1.8	29.3	0.0	-13.3	48.0	249.8	500.0	-6.0
1170.000	V	23.6		1.8	29.3	0.0	-13.3	41.4	116.8	500.0	-12.6
1560.000	H	18.4		2.1	29.2	0.0	-13.3	36.4	65.8	500.0	-17.6
1560.000	V	14.7	Ambient	2.1	29.2	0.0	-13.3	32.7	43.0	500.0	-21.3
1950.000	H	22.4		2.3	33.1	0.0	-13.3	44.5	167.0	916.7	-14.8
1950.000	V	20.1		2.3	33.1	0.0	-13.3	42.2	128.1	916.7	-17.1
2340.000	H	16.2	Ambient	2.6	32.5	0.0	-13.3	38.0	79.2	500.0	-16.0
2340.000	V	16.3	Ambient	2.6	32.5	0.0	-13.3	38.1	80.1	500.0	-15.9
2730.000	H	18.3	Ambient	2.8	33.7	0.0	-13.3	41.5	119.2	500.0	-12.5
2730.000	V	17.4	Ambient	2.8	33.7	0.0	-13.3	40.6	107.4	500.0	-13.4
3120.000	H	17.6	Ambient	3.0	33.5	0.0	-13.3	40.8	109.4	916.7	-18.5
3120.000	V	17.2	Ambient	3.0	33.5	0.0	-13.3	40.4	104.5	916.7	-18.9
3510.000	H	17.6	Ambient	3.2	34.1	0.0	-13.3	41.6	119.7	916.7	-17.7
3510.000	V	16.8	Ambient	3.2	34.1	0.0	-13.3	40.8	109.1	916.7	-18.5
3900.000	H	18.6	Ambient	3.4	34.3	0.0	-13.3	43.0	140.6	500.0	-11.0
3900.000	V	18.6	Ambient	3.4	34.3	0.0	-13.3	43.0	140.6	500.0	-11.0

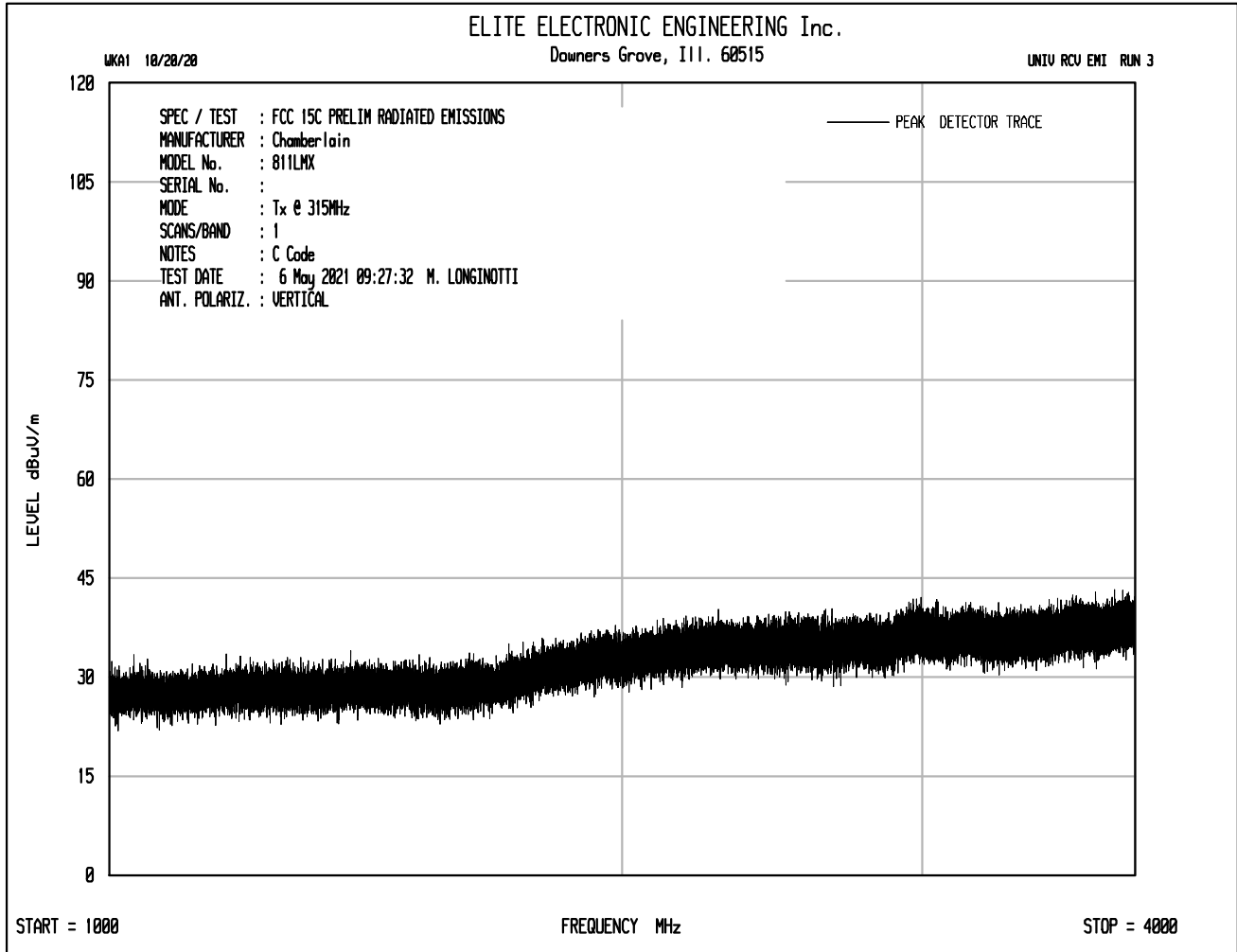


Notes should read "C Code" not EDIP Code



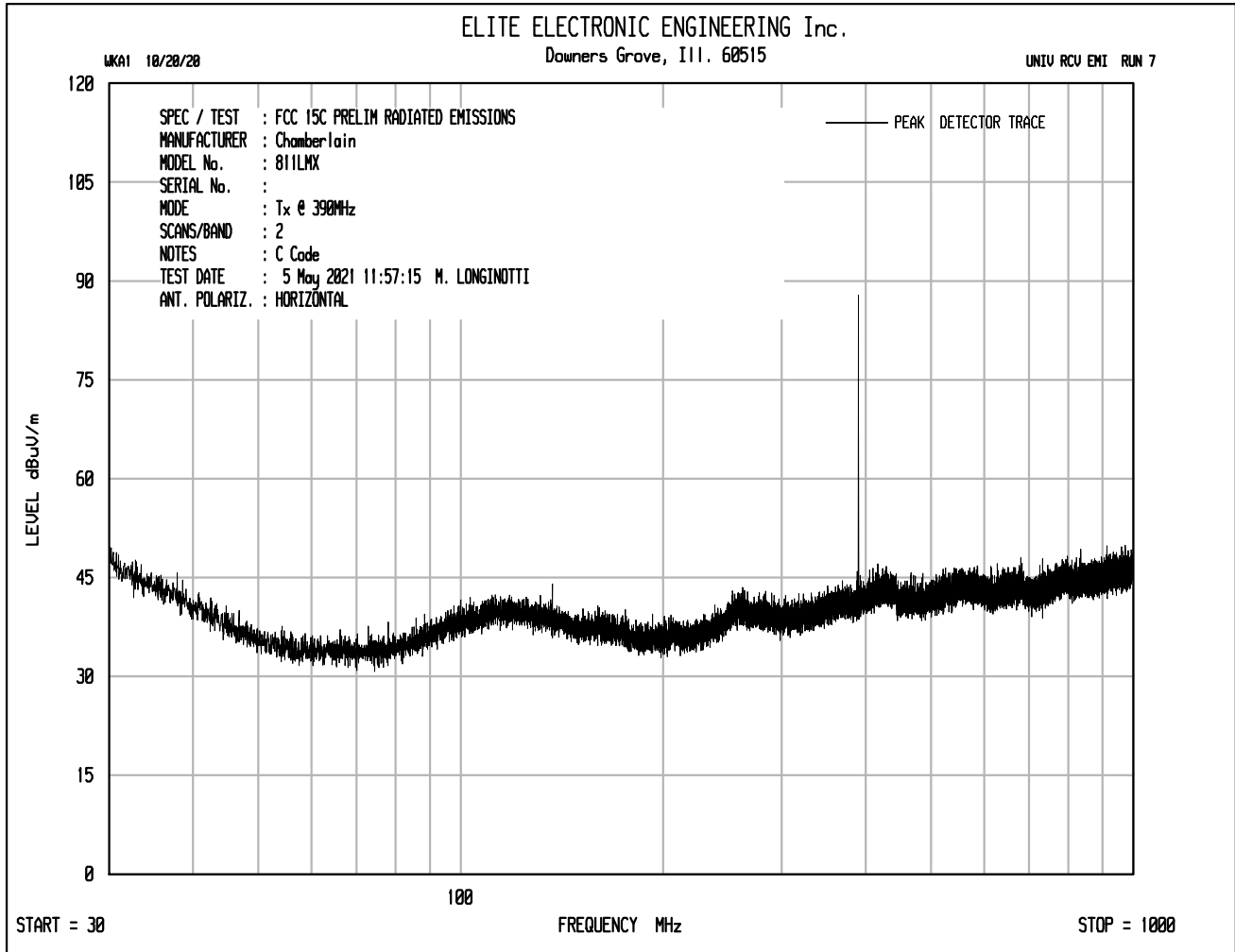
Notes should read "C Code" not EDIP Code

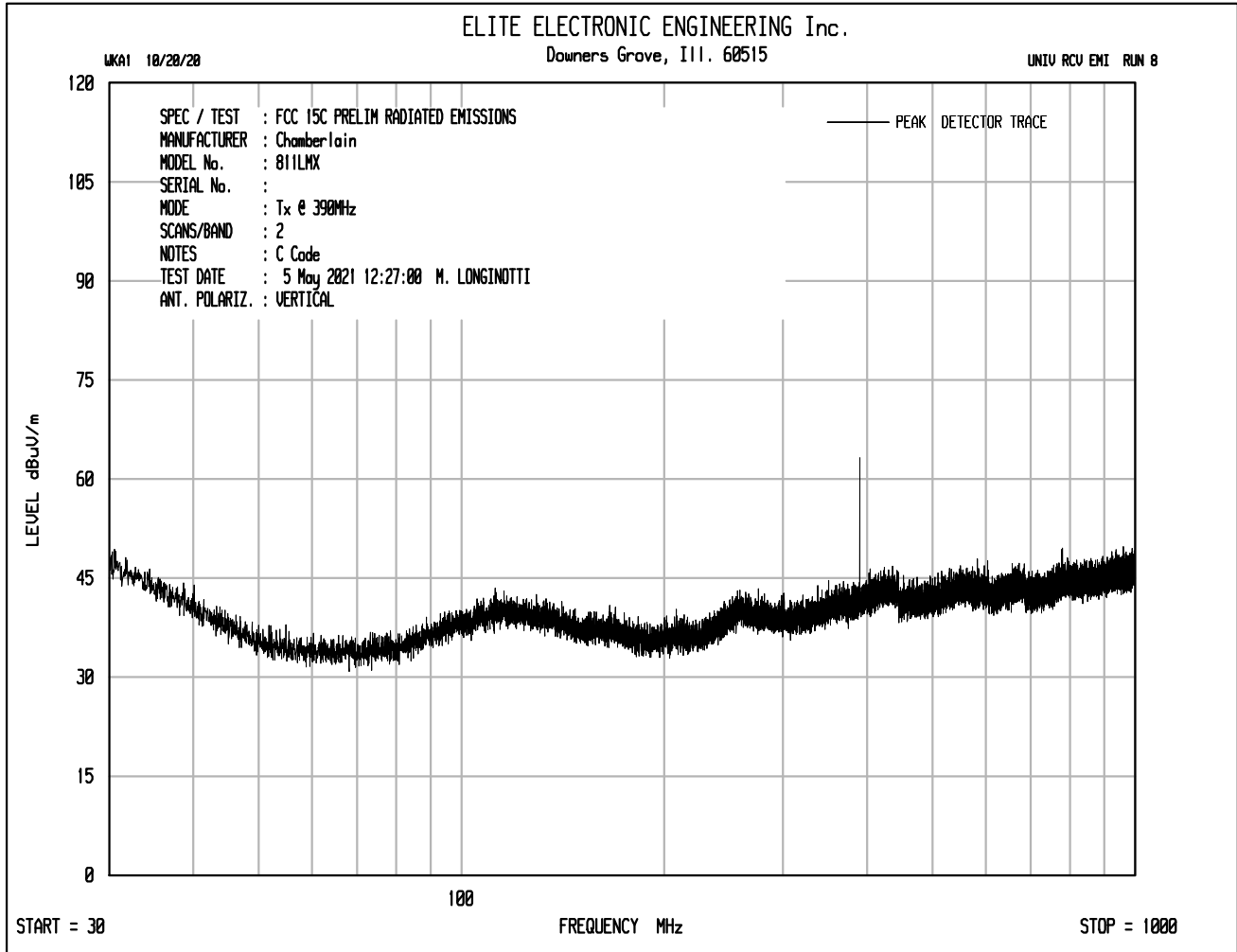


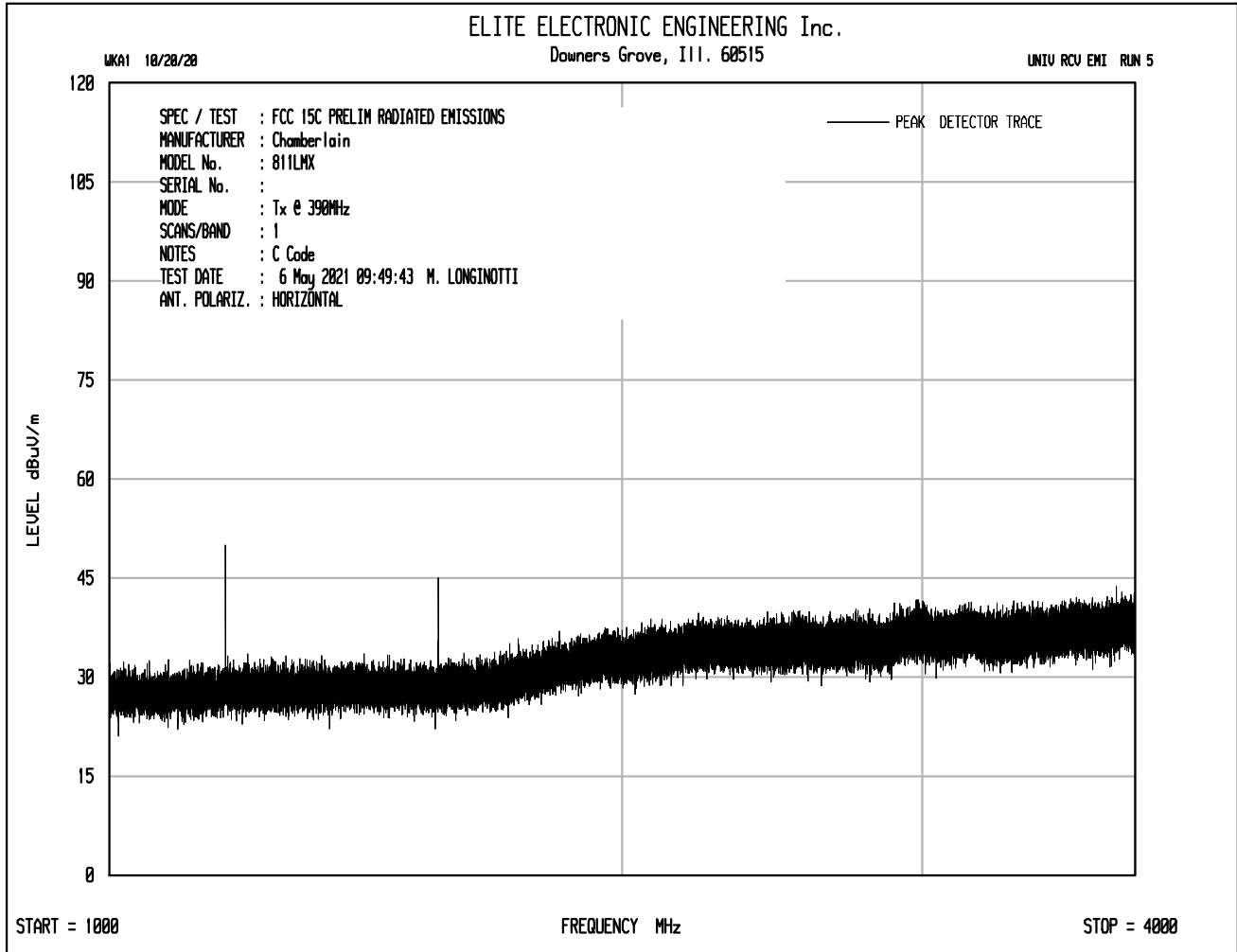


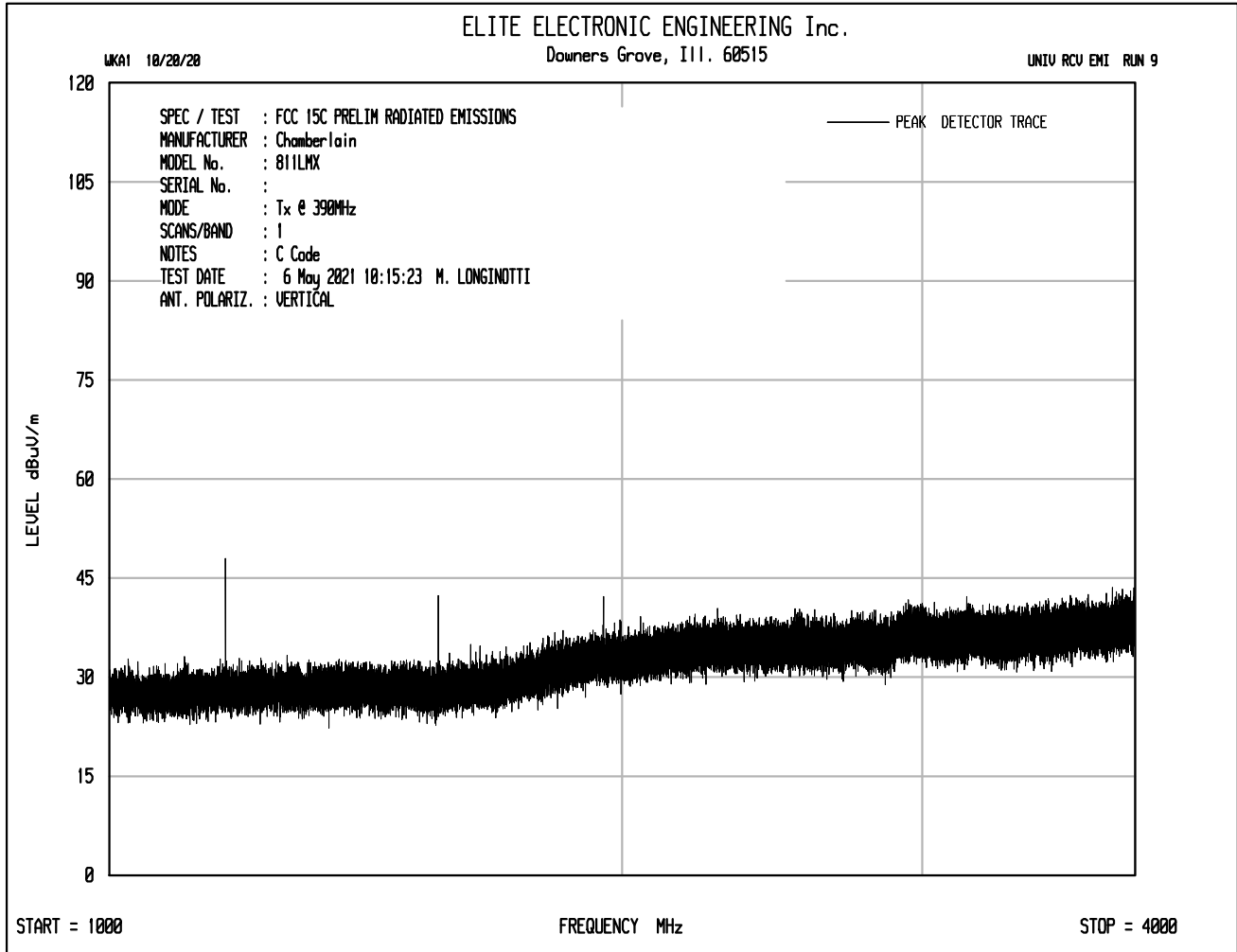
Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	811LMX
S/N	None Assigned
Mode	Continuous Transmission
Carrier Frequency	315MHz
Requirements	Field Strength of Carrier Limit = 6041.7µV/m
Notes	C Code

Freq. MHz	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBUV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
315.000	H	57.7		0.9	19.3	0.0	-11.9	66.1	2016.6	6041.7	-9.5
315.000	V	45.2		0.9	19.3	0.0	-11.9	53.6	478.2	6041.7	-22.0
630.000	H	5.4	Ambient	1.3	25.0	0.0	-11.9	19.9	9.9	604.2	-35.7
630.000	V	5.1	Ambient	1.3	25.0	0.0	-11.9	19.6	9.5	604.2	-36.0
945.000	H	16.0		1.6	27.0	0.0	-11.9	32.7	43.2	604.2	-22.9
945.000	V	9.7		1.6	27.0	0.0	-11.9	26.4	20.9	604.2	-29.2
1260.000	H	14.4	Ambient	1.9	29.8	0.0	-11.9	34.2	51.4	604.2	-21.4
1260.000	V	14.4	Ambient	1.9	29.8	0.0	-11.9	34.2	51.4	604.2	-21.4
1575.000	H	16.7		2.1	29.3	0.0	-11.9	36.3	65.1	500.0	-17.7
1575.000	V	14.8	Ambient	2.1	29.3	0.0	-11.9	34.4	52.3	500.0	-19.6
1890.000	H	16.1	Ambient	2.3	32.3	0.0	-11.9	38.8	87.1	604.2	-16.8
1890.000	V	15.7	Ambient	2.3	32.3	0.0	-11.9	38.4	83.2	604.2	-17.2
2205.000	H	16.3	Ambient	2.5	32.5	0.0	-11.9	39.5	94.1	500.0	-14.5
2205.000	V	15.8	Ambient	2.5	32.5	0.0	-11.9	39.0	88.8	500.0	-15.0
2520.000	H	16.3	Ambient	2.7	33.6	0.0	-11.9	40.7	108.7	604.2	-14.9
2520.000	V	16.2	Ambient	2.7	33.6	0.0	-11.9	40.6	107.5	604.2	-15.0
2835.000	H	16.8	Ambient	2.9	33.2	0.0	-11.9	41.1	113.1	500.0	-12.9
2835.000	V	16.9	Ambient	2.9	33.2	0.0	-11.9	41.2	114.4	500.0	-12.8
3150.000	H	17.5	Ambient	3.0	33.7	0.0	-11.9	42.3	131.0	604.2	-13.3
3150.000	V	17.1	Ambient	3.0	33.7	0.0	-11.9	41.9	125.1	604.2	-13.7



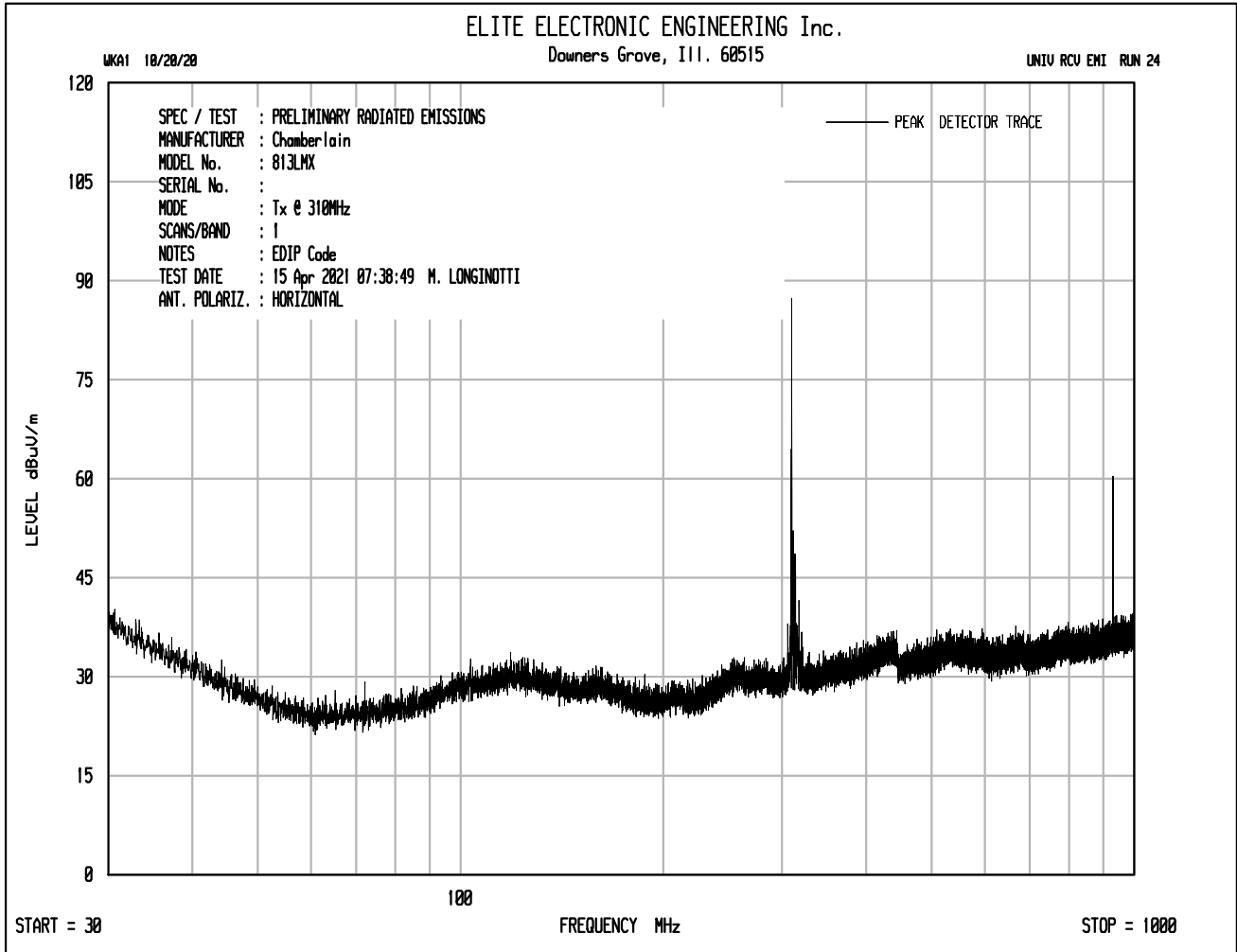


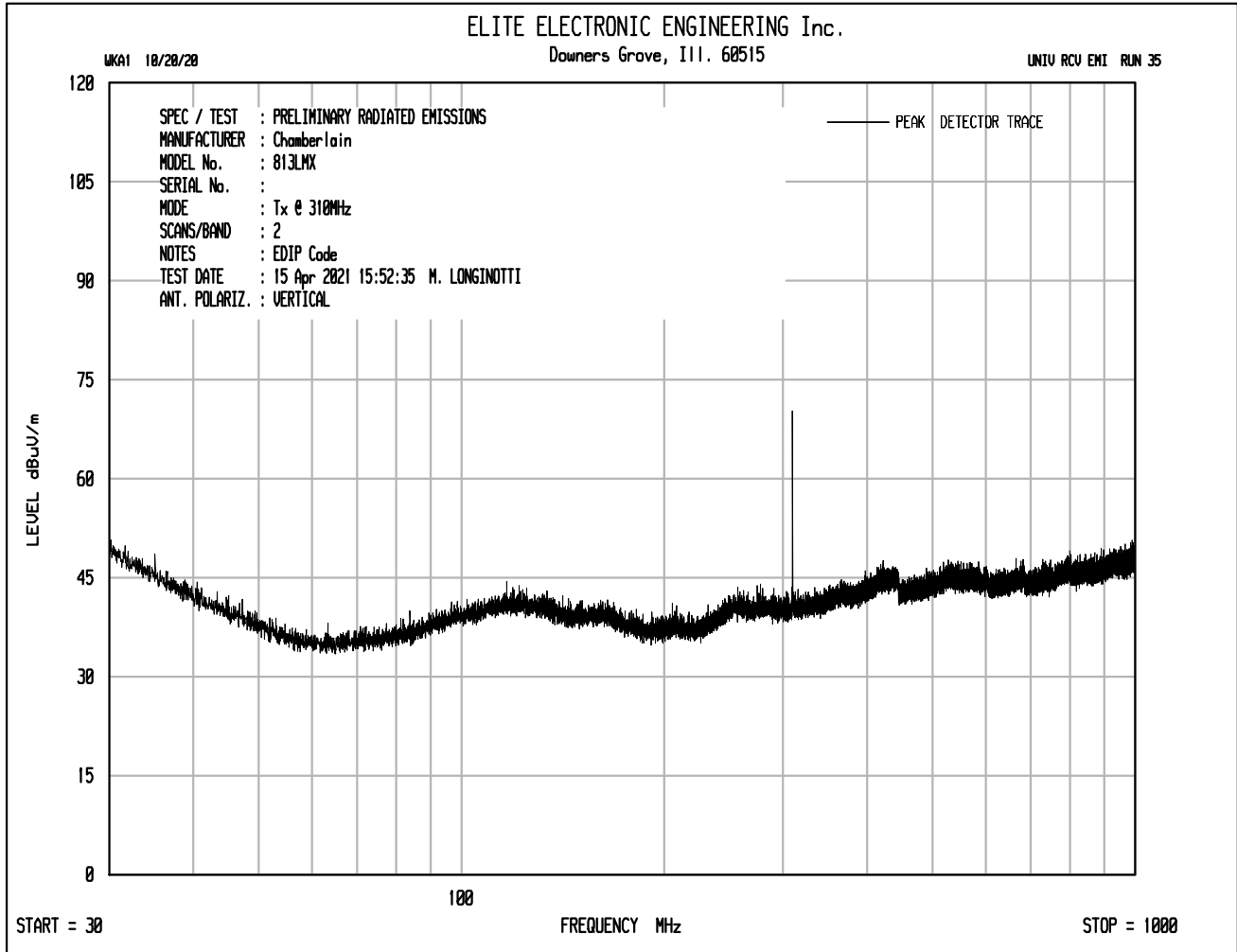


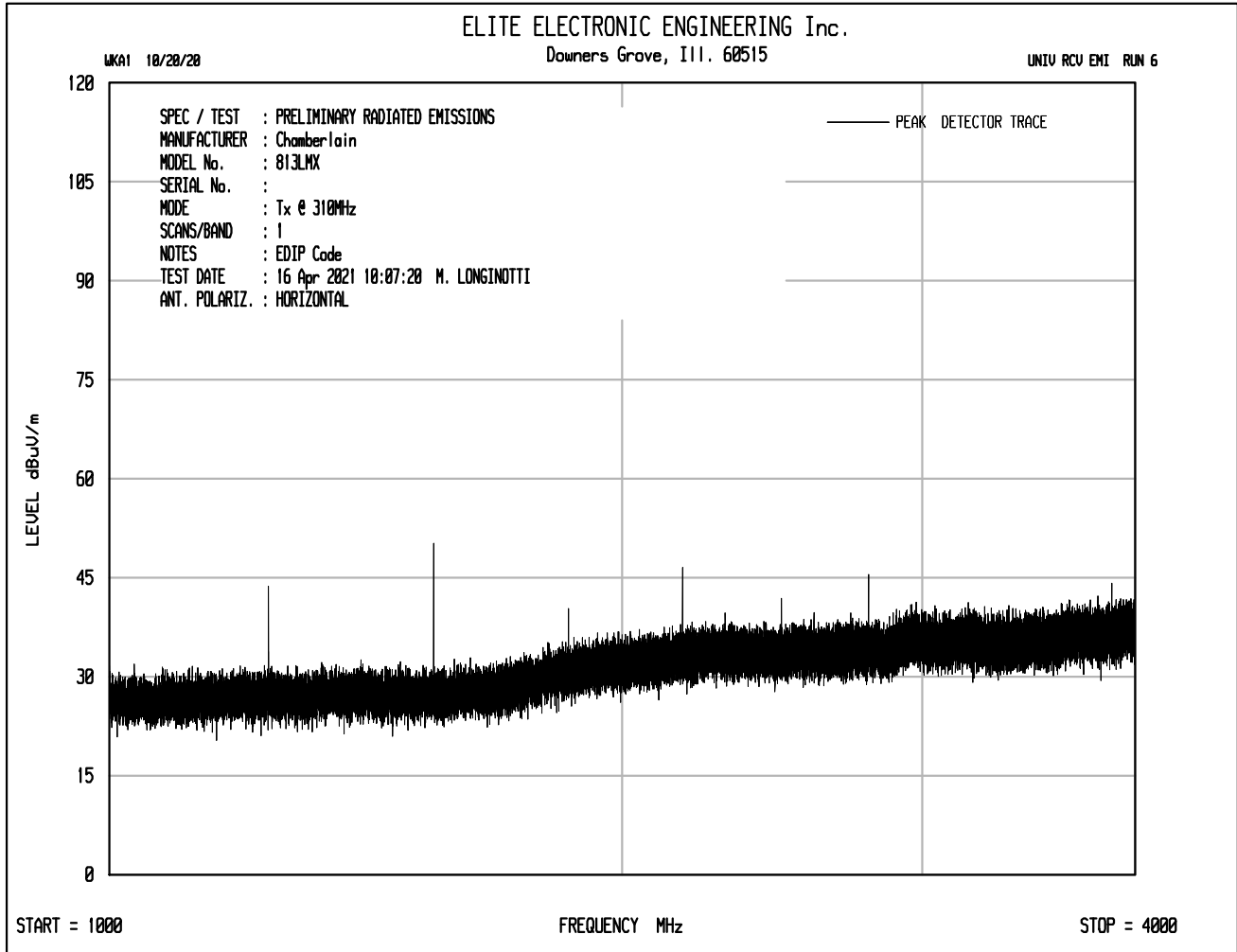


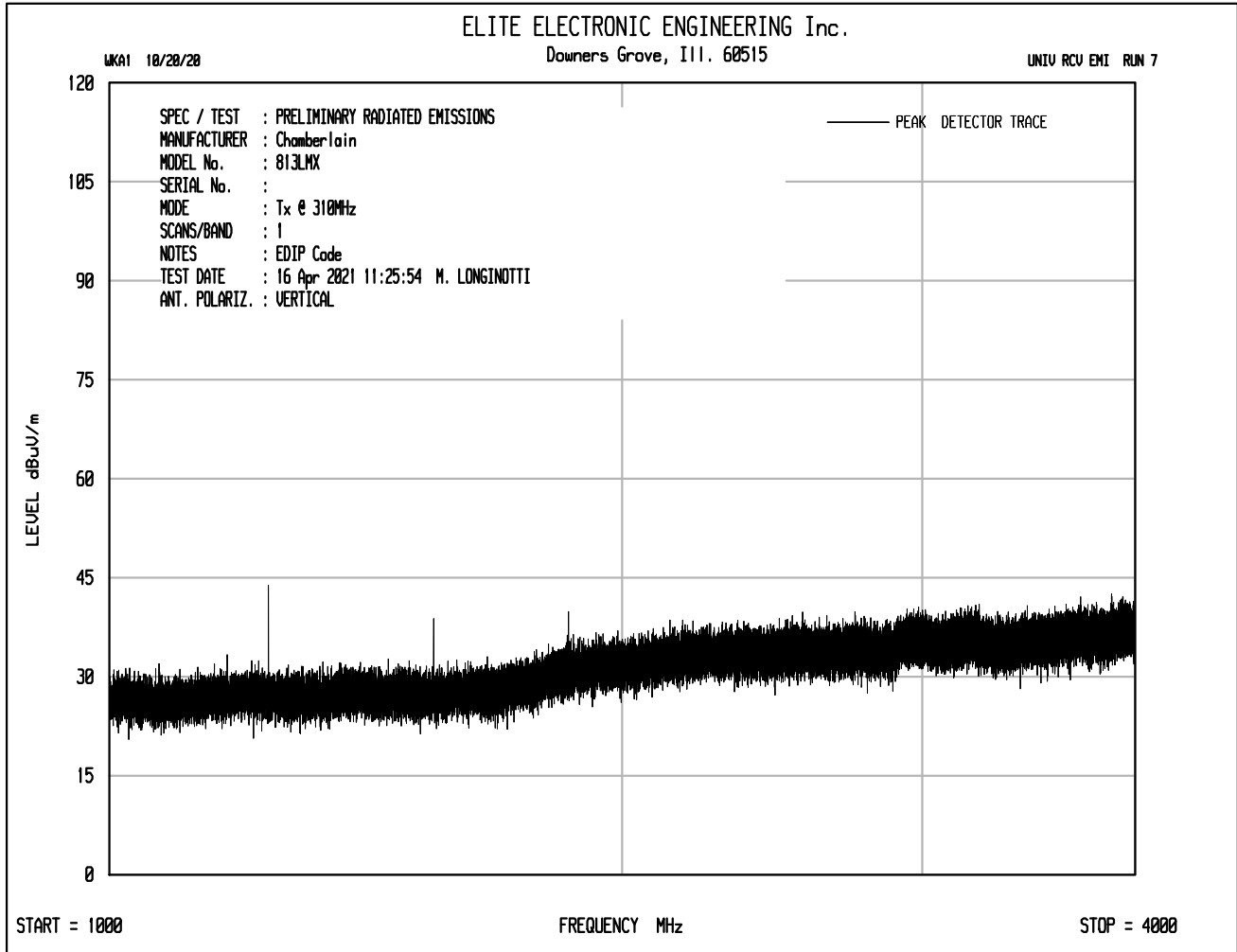
Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	811LMX
S/N	None Assigned
Mode	Continuous Transmission
Carrier Frequency	390MHz
Requirements	Field Strength of Carrier Limit = 9166.7µV/m
Notes	C Code

Freq. MHz	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBUV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
390.000	H	66.2		1.0	21.5	0.0	-11.9	76.9	6962.6	9166.7	-2.4
390.000	V	48.9		1.0	21.5	0.0	-11.9	59.6	950.1	9166.7	-19.7
780.000	H	26.8		1.4	25.9	0.0	-11.9	42.2	128.8	916.7	-17.0
780.000	V	24.8		1.4	25.9	0.0	-11.9	40.2	102.3	916.7	-19.0
1170.000	H	31.5		1.8	29.3	0.0	-11.9	50.7	341.2	500.0	-3.3
1170.000	V	26.1		1.8	29.3	0.0	-11.9	45.3	183.2	500.0	-8.7
1560.000	H	24.3		2.1	29.2	0.0	-11.9	43.7	152.7	500.0	-10.3
1560.000	V	20.9		2.1	29.2	0.0	-11.9	40.3	103.3	500.0	-13.7
1950.000	H	22.3		2.3	33.1	0.0	-11.9	45.8	194.2	916.7	-13.5
1950.000	V	20.6		2.3	33.1	0.0	-11.9	44.1	159.7	916.7	-15.2
2340.000	H	16.5	Ambient	2.6	32.5	0.0	-11.9	39.7	96.4	500.0	-14.3
2340.000	V	16.4	Ambient	2.6	32.5	0.0	-11.9	39.6	95.3	500.0	-14.4
2730.000	H	20.2		2.8	33.7	0.0	-11.9	44.8	174.4	500.0	-9.1
2730.000	V	18.6		2.8	33.7	0.0	-11.9	43.2	145.1	500.0	-10.7
3120.000	H	17.4	Ambient	3.0	33.5	0.0	-11.9	42.0	125.8	916.7	-17.3
3120.000	V	17.4	Ambient	3.0	33.5	0.0	-11.9	42.0	125.8	916.7	-17.3
3510.000	H	17.2	Ambient	3.2	34.1	0.0	-11.9	42.6	134.4	916.7	-16.7
3510.000	V	17.3	Ambient	3.2	34.1	0.0	-11.9	42.7	136.0	916.7	-16.6
3900.000	H	18.0	Ambient	3.4	34.3	0.0	-11.9	43.8	154.3	500.0	-10.2
3900.000	V	18.7	Ambient	3.4	34.3	0.0	-11.9	44.5	167.3	500.0	-9.5



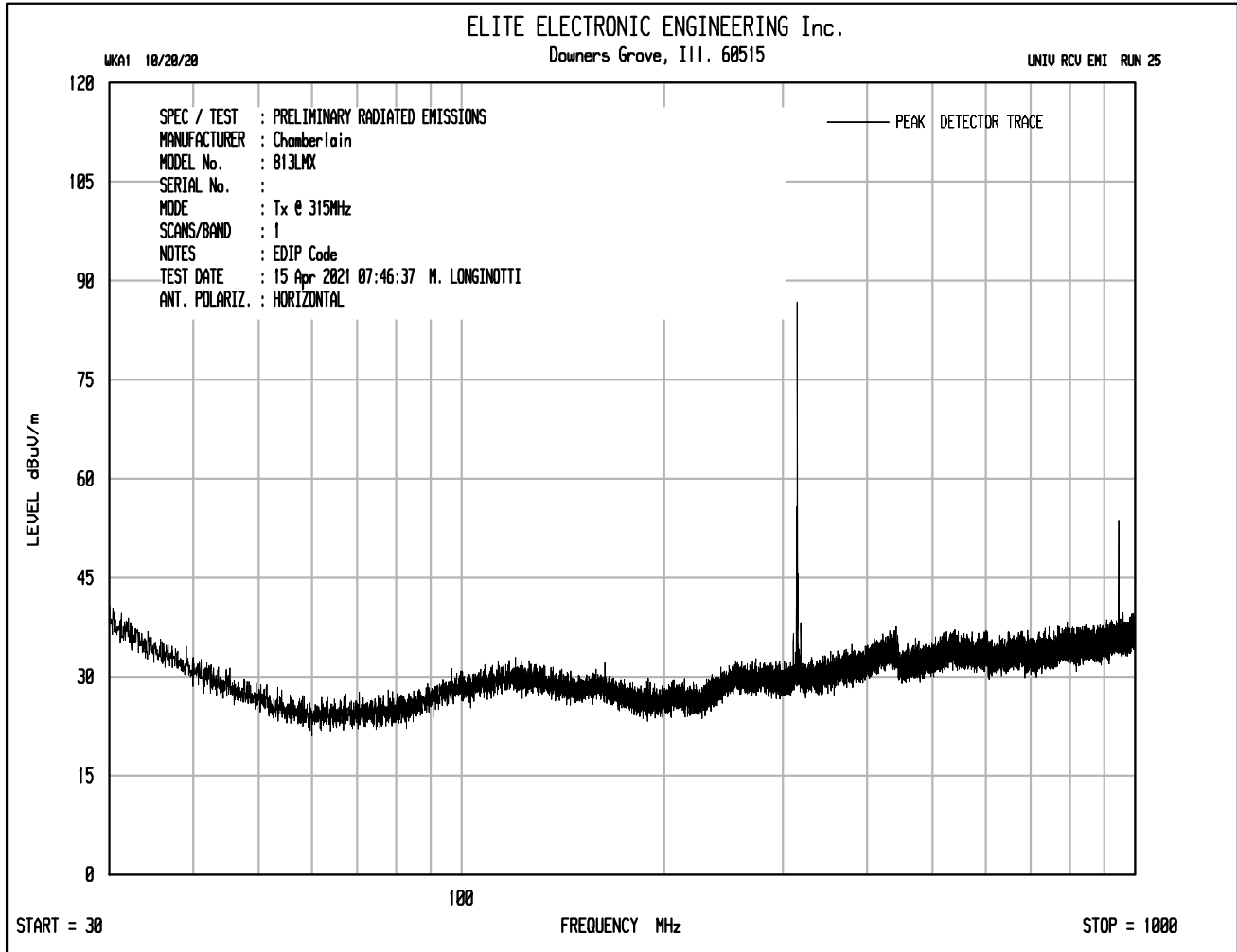


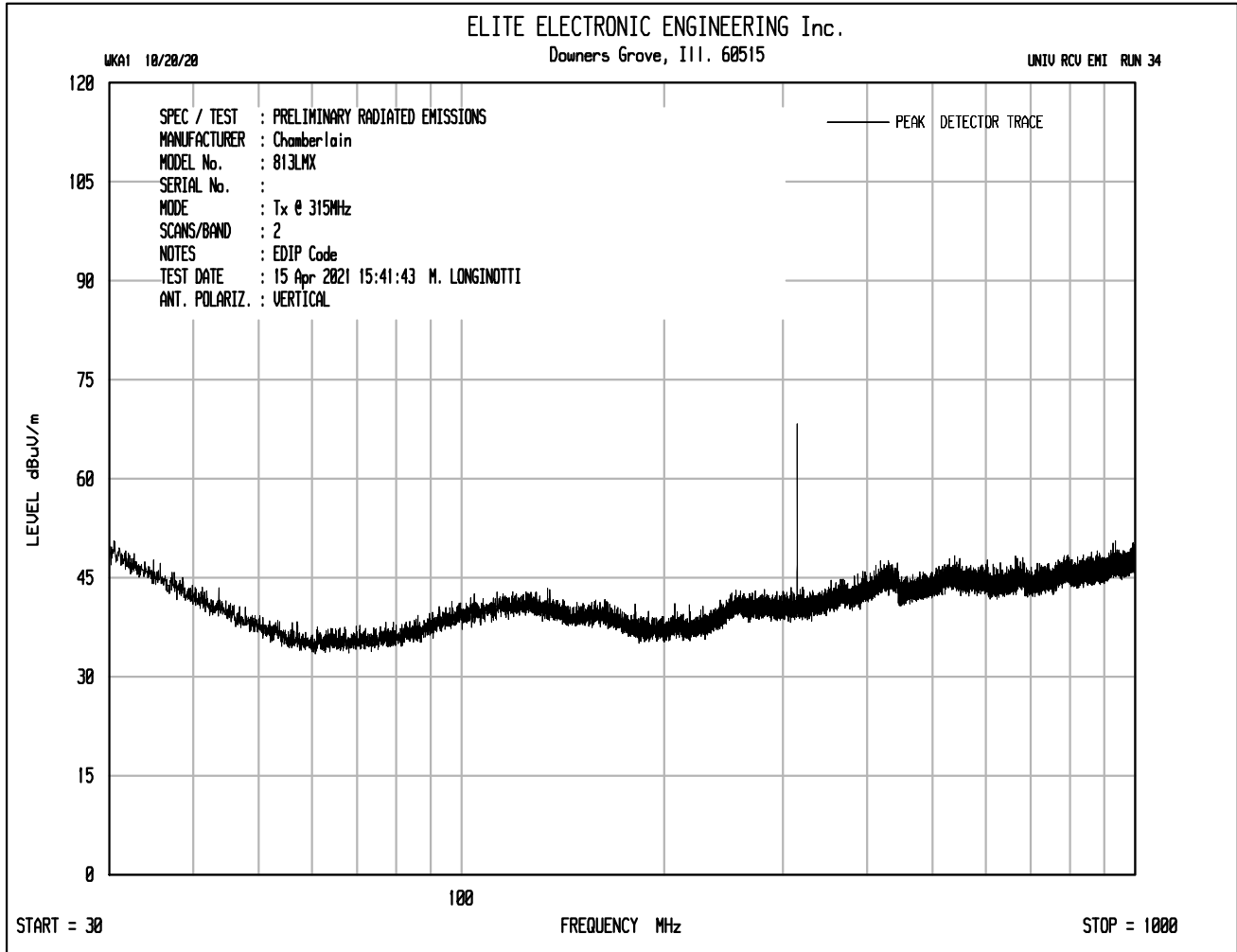


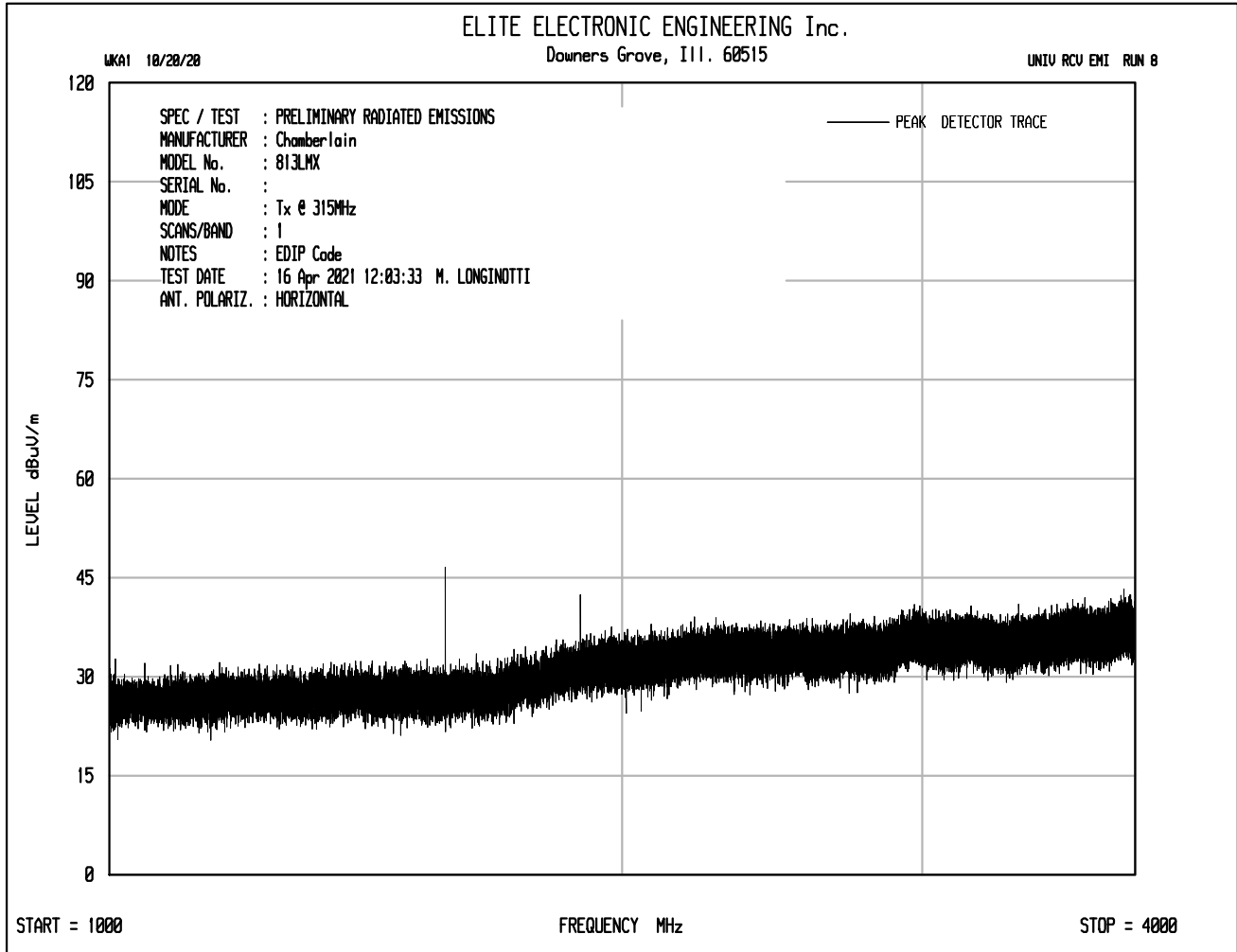


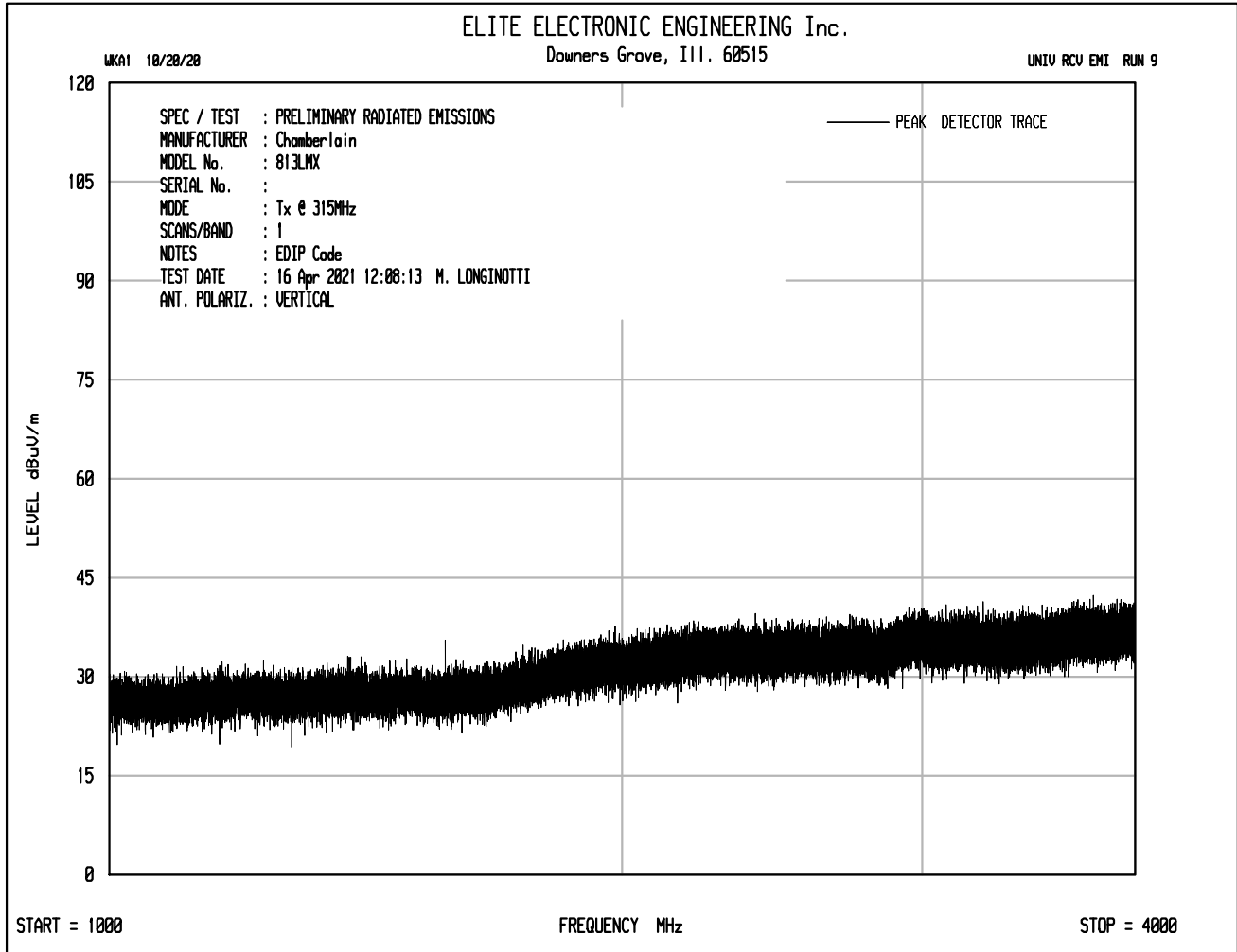
Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	813LMX
S/N	None Assigned
Mode	Continuous Transmission
Carrier Frequency	310MHz
Requirements	Field Strength of Carrier Limit = 5833.3µV/m
Notes	EDIP Code

Freq. MHz	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBUV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
310.000	H	67.6		0.9	19.3	0.0	-13.3	74.6	5355.2	5833.3	-0.7
310.000	V	49.4		0.9	19.3	0.0	-13.3	56.4	658.8	5833.3	-18.9
620.000	H	12.3		1.3	24.9	0.0	-13.3	25.2	18.2	583.3	-30.1
620.000	V	10.1		1.3	24.9	0.0	-13.3	23.0	14.1	583.3	-32.3
930.000	H	33.2		1.6	26.9	0.0	-13.3	48.4	262.2	583.3	-6.9
930.000	V	27.0		1.6	26.9	0.0	-13.3	42.2	128.4	583.3	-13.1
1240.000	H	19.1		1.8	29.8	0.0	-13.3	37.5	74.8	500.0	-16.5
1240.000	V	18.4		1.8	29.8	0.0	-13.3	36.8	69.0	500.0	-17.2
1550.000	H	29.4		2.1	29.1	0.0	-13.3	47.3	232.6	500.0	-6.6
1550.000	V	24.7		2.1	29.1	0.0	-13.3	42.6	135.4	500.0	-11.3
1860.000	H	21.4		2.3	31.9	0.0	-13.3	42.3	130.5	583.3	-13.0
1860.000	V	19.1		2.3	31.9	0.0	-13.3	40.0	100.2	583.3	-15.3
2170.000	H	19.6		2.5	32.5	0.0	-13.3	41.3	116.2	583.3	-14.0
2170.000	V	21.4		2.5	32.5	0.0	-13.3	43.1	142.9	583.3	-12.2
2480.000	H	18.4	Ambient	2.7	33.2	0.0	-13.3	41.0	112.7	583.3	-14.3
2480.000	V	17.7	Ambient	2.7	33.2	0.0	-13.3	40.3	104.0	583.3	-15.0
2790.000	H	19.5	Ambient	2.8	33.6	0.0	-13.3	42.7	136.1	500.0	-11.3
2790.000	V	17.9	Ambient	2.8	33.6	0.0	-13.3	41.1	113.2	500.0	-12.9
3100.000	H	17.8	Ambient	3.0	33.4	0.0	-13.3	40.9	110.9	583.3	-14.4
3100.000	V	17.7	Ambient	3.0	33.4	0.0	-13.3	40.8	109.7	583.3	-14.5



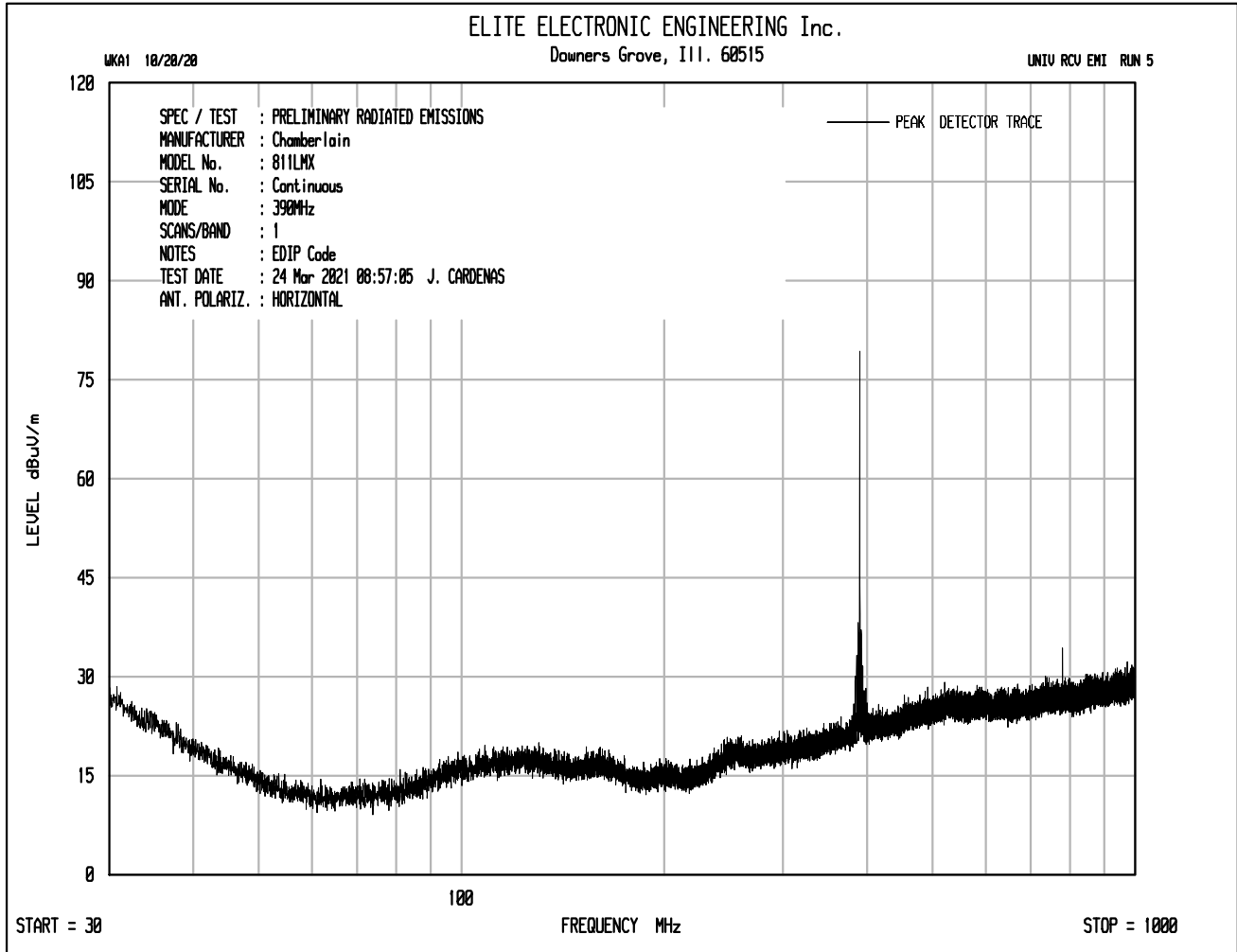


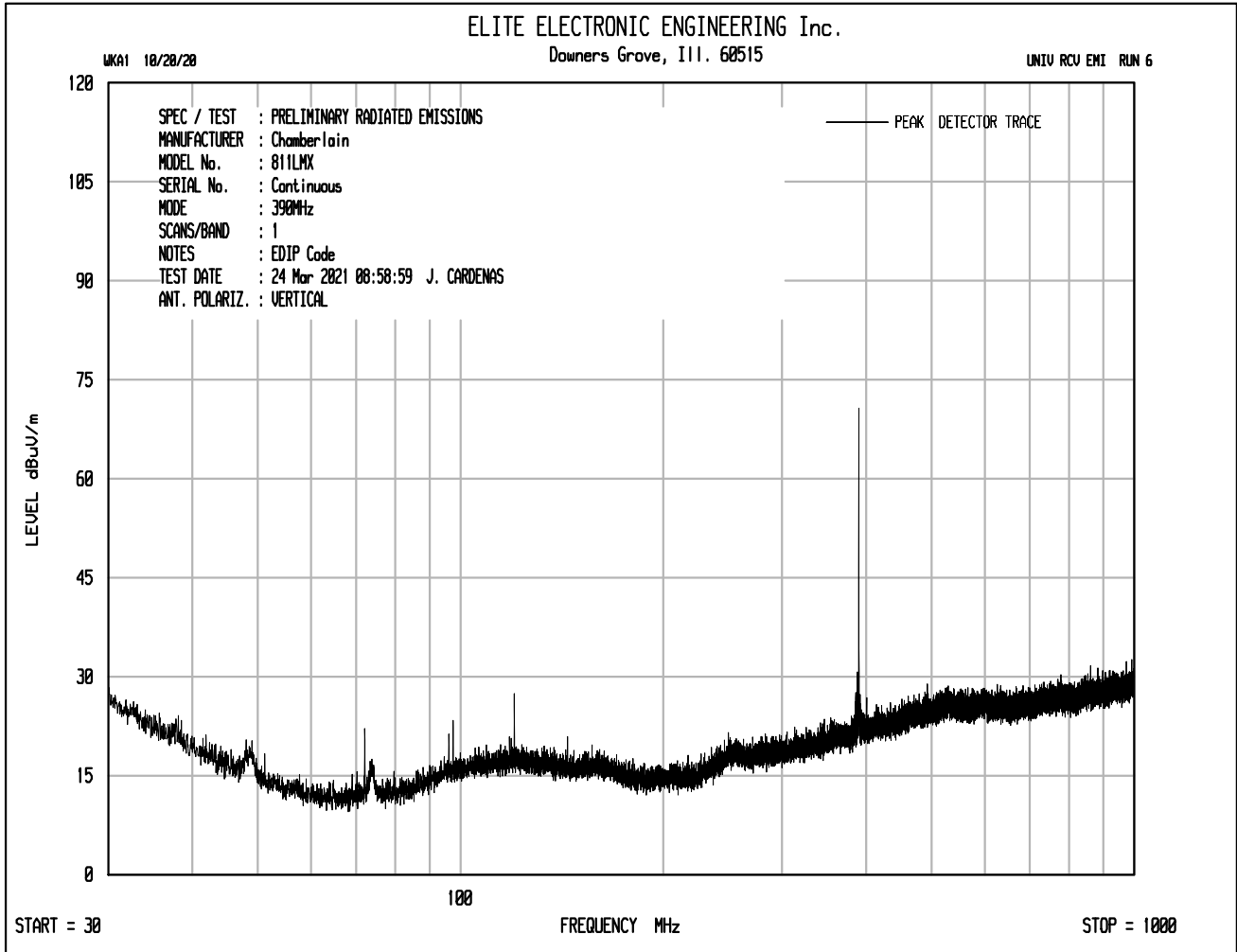


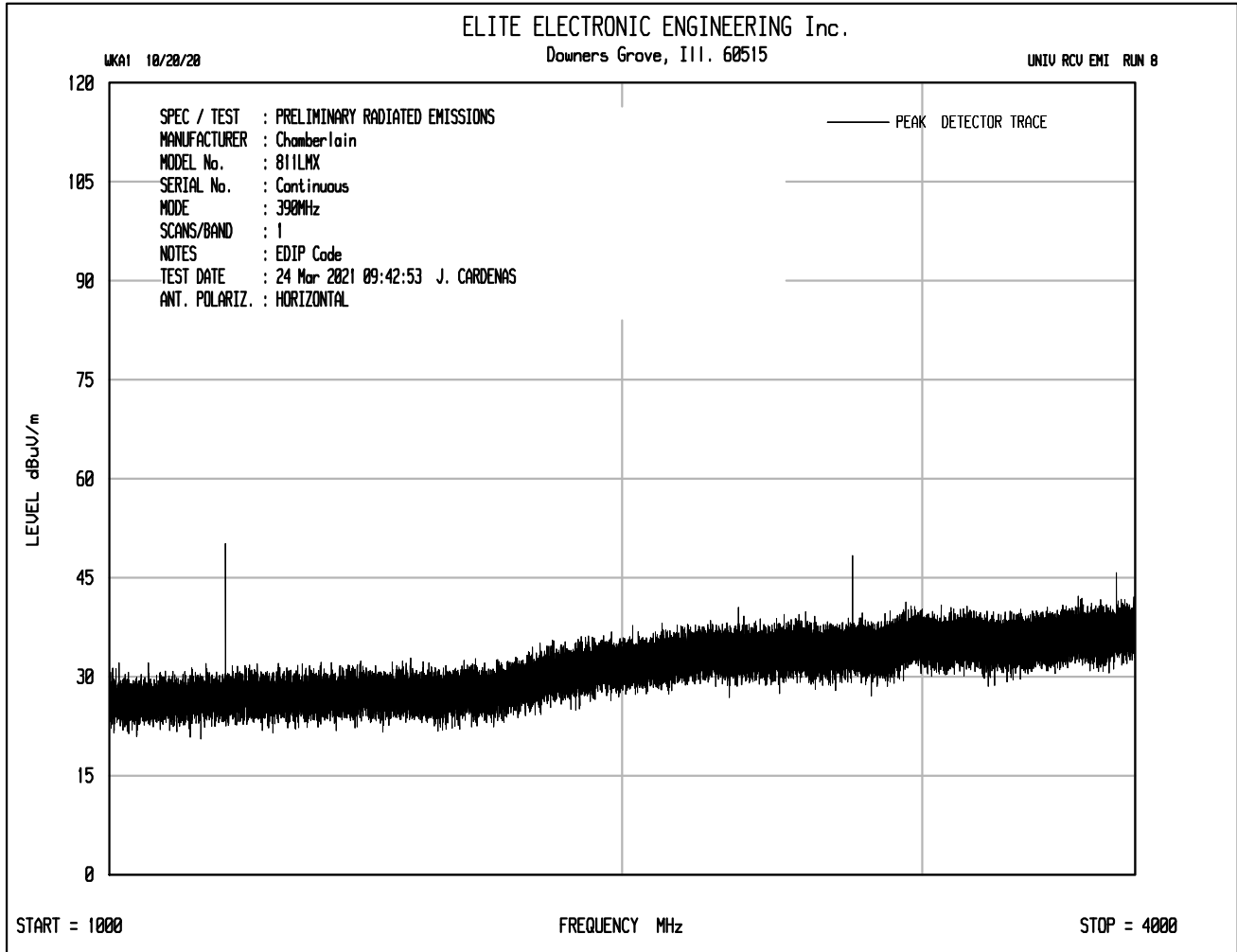


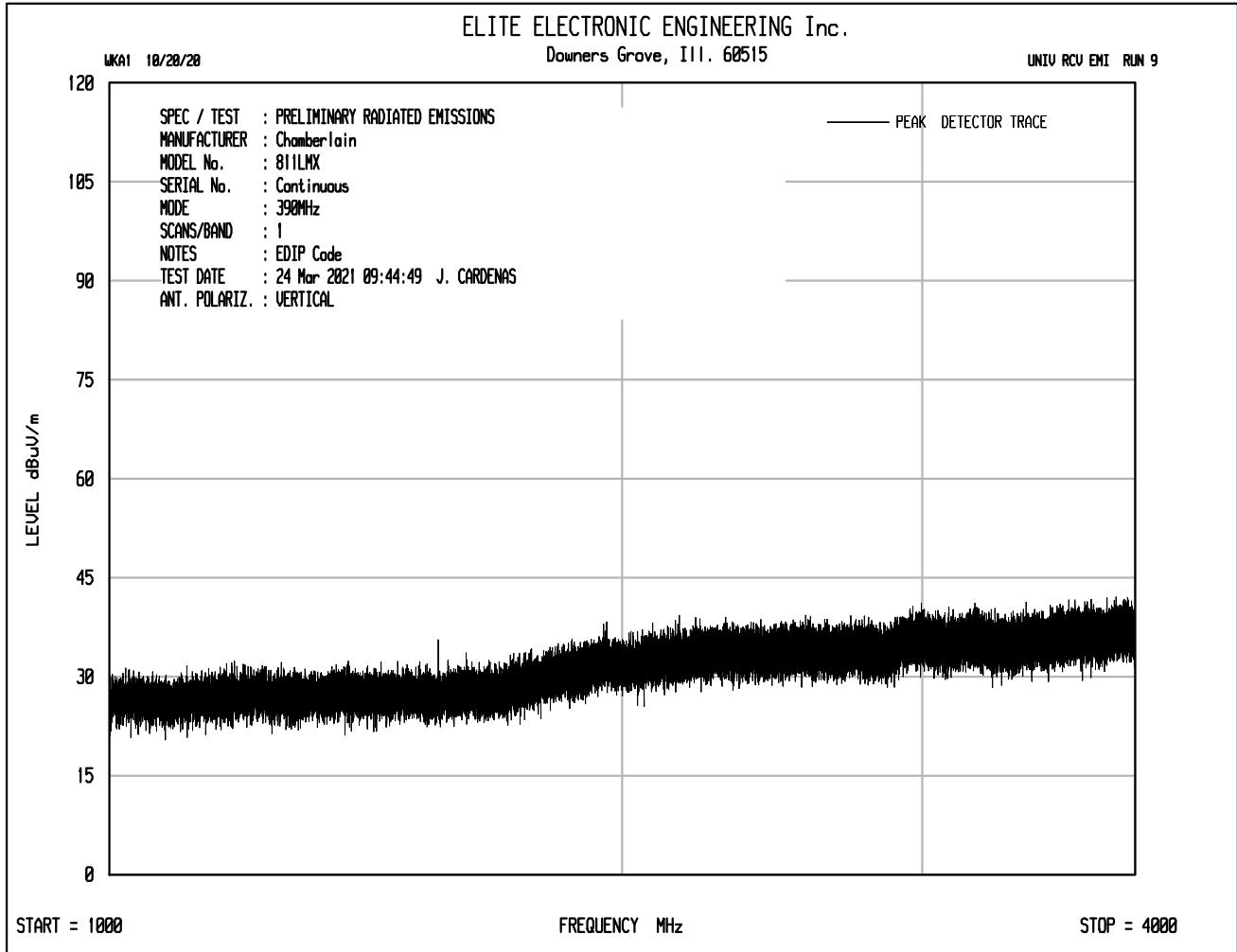
Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	813LMX
S/N	None Assigned
Mode	Continuous Transmission
Carrier Frequency	315MHz
Requirements	Field Strength of Carrier Limit = 6041.7 μ V/m
Notes	EDIP Code

Freq. MHz	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBUV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
315.000	H	66.6		0.9	19.4	0.0	-13.2	73.8	4876.3	6041.7	-1.9
315.000	V	49.9		0.9	19.4	0.0	-13.2	57.1	713.0	6041.7	-18.6
630.000	H	7.7	Ambient	1.3	24.9	0.0	-13.2	20.8	10.9	604.2	-34.9
630.000	V	6.5	Ambient	1.3	24.9	0.0	-13.2	19.6	9.5	604.2	-36.1
945.000	H	25.9		1.6	27.0	0.0	-13.2	41.3	116.0	604.2	-14.3
945.000	V	21.0		1.6	27.0	0.0	-13.2	36.4	66.0	604.2	-19.2
1260.000	H	15.9		1.9	29.8	0.0	-13.2	34.4	52.4	604.2	-21.2
1260.000	V	15.7		1.9	29.8	0.0	-13.2	34.2	51.2	604.2	-21.4
1575.000	H	21.0		2.1	29.3	0.0	-13.2	39.2	91.5	500.0	-14.8
1575.000	V	16.5		2.1	29.3	0.0	-13.2	34.7	54.5	500.0	-19.3
1890.000	H	18.4		2.3	32.3	0.0	-13.2	39.8	97.3	604.2	-15.9
1890.000	V	16.7	Ambient	2.3	32.3	0.0	-13.2	38.1	80.0	604.2	-17.6
2205.000	H	17.3	Ambient	2.5	32.5	0.0	-13.2	39.1	90.4	500.0	-14.9
2205.000	V	16.5	Ambient	2.5	32.5	0.0	-13.2	38.3	82.5	500.0	-15.7
2520.000	H	16.5	Ambient	2.7	33.6	0.0	-13.2	39.6	95.4	604.2	-16.0
2520.000	V	16.0	Ambient	2.7	33.6	0.0	-13.2	39.1	90.0	604.2	-16.5
2835.000	H	16.5	Ambient	2.9	33.2	0.0	-13.2	39.4	93.6	500.0	-14.6
2835.000	V	16.9	Ambient	2.9	33.2	0.0	-13.2	39.8	98.0	500.0	-14.2
3150.000	H	17.4	Ambient	3.0	33.7	0.0	-13.2	40.9	110.9	604.2	-14.7
3150.000	V	17.4	Ambient	3.0	33.7	0.0	-13.2	40.9	110.9	604.2	-14.7



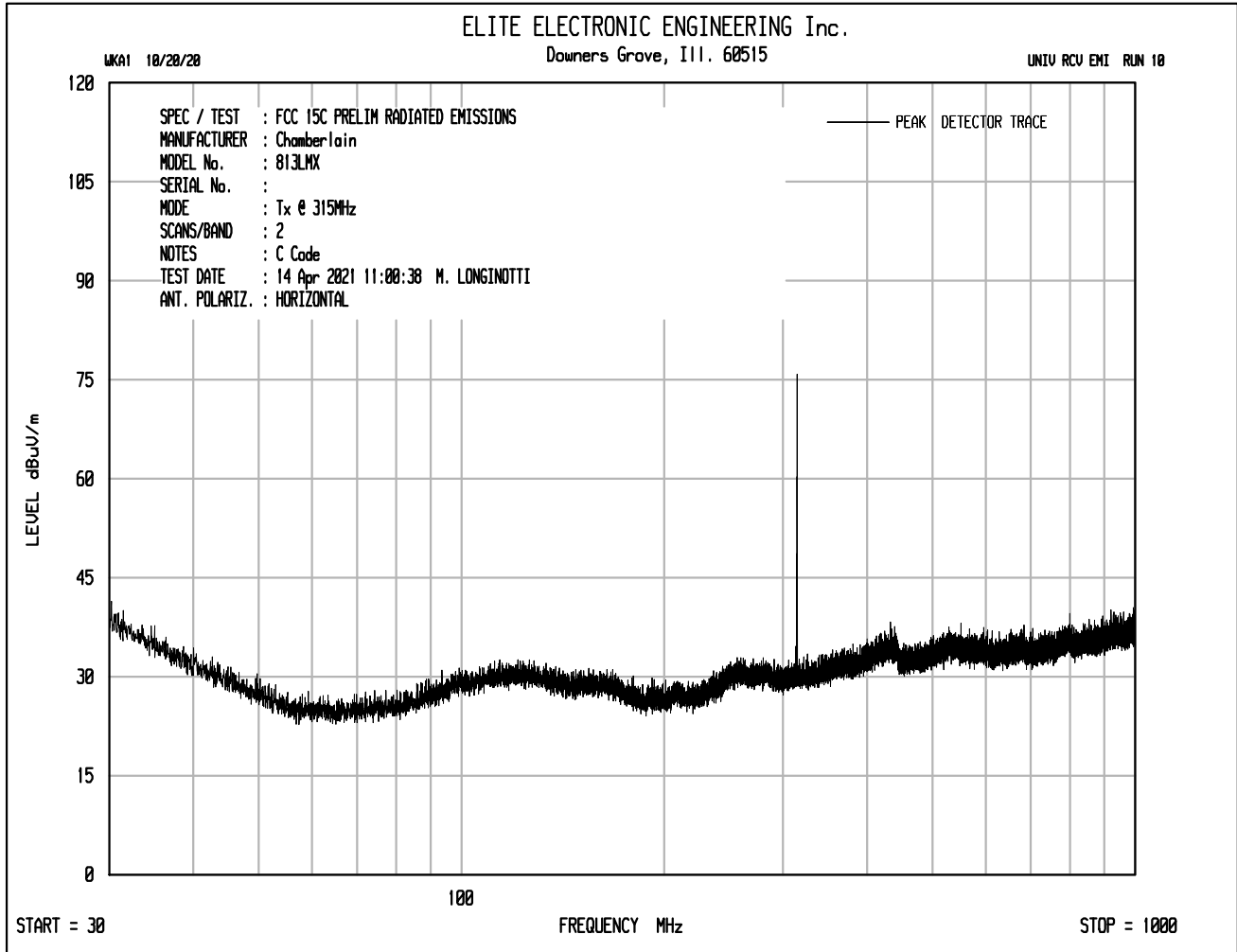


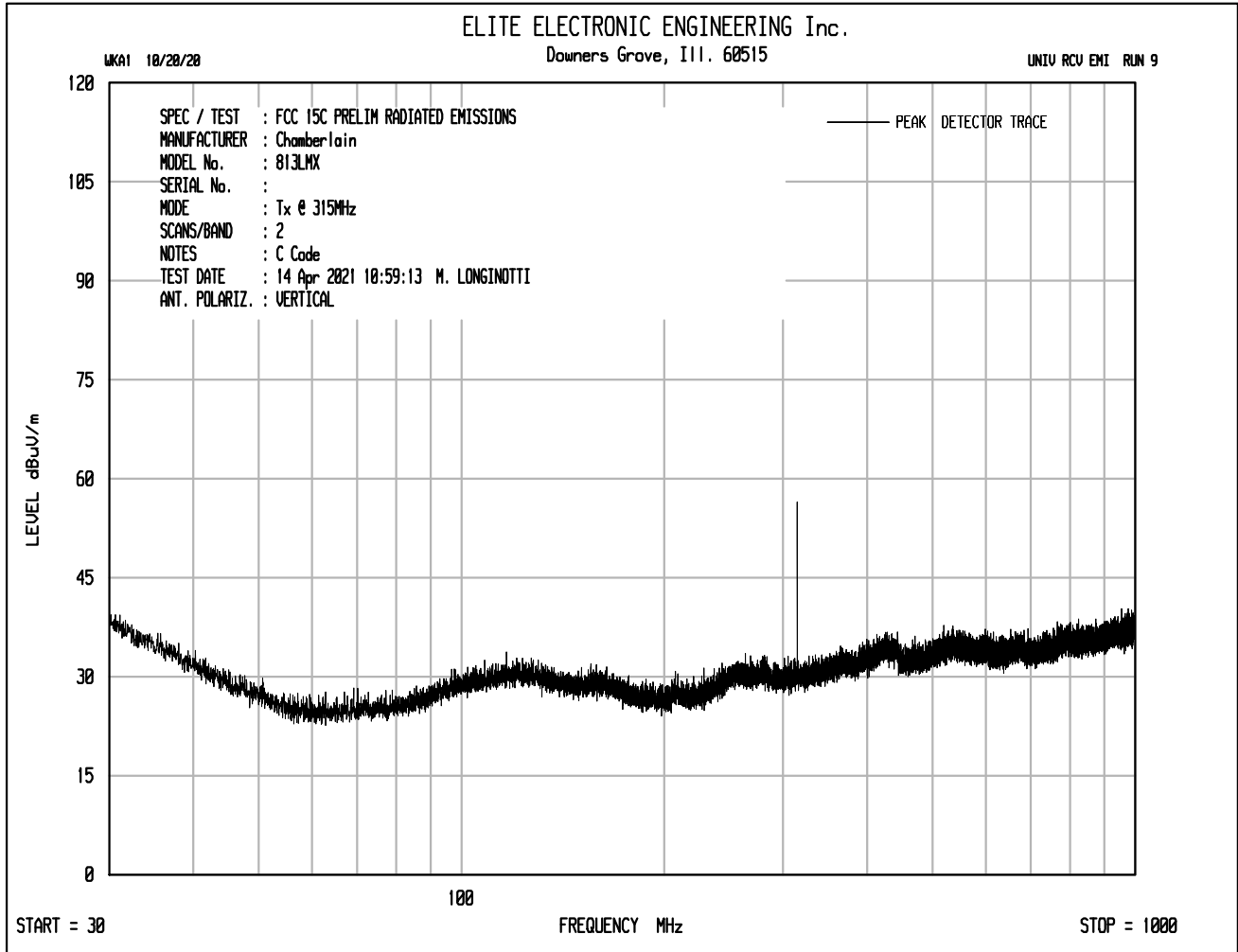




Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	813LMX
S/N	None Assigned
Mode	Continuous Transmission
Carrier Frequency	390MHz
Requirements	Field Strength of Carrier Limit = 9166.7 μ V/m
Notes	EDIP Code

Freq. MHz	Ant Pol	Meter Reading (dBuV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBuV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
390.000	H	60.5		1.0	21.6	0.0	-13.3	69.8	3106.3	9166.7	-9.4
390.000	V	57.1		1.0	21.6	0.0	-13.3	66.4	2090.5	9166.7	-12.8
780.000	H	16.4		1.4	25.8	0.0	-13.3	30.3	32.8	916.7	-28.9
780.000	V	12.5		1.4	25.8	0.0	-13.3	26.4	20.8	916.7	-32.9
1170.000	H	28.0		1.8	29.3	0.0	-13.3	45.8	194.5	500.0	-8.2
1170.000	V	24.8		1.8	29.3	0.0	-13.3	42.5	133.7	500.0	-11.5
1560.000	H	26.8		2.1	29.2	0.0	-13.3	44.7	172.2	500.0	-9.3
1560.000	V	25.0		2.1	29.2	0.0	-13.3	43.0	140.6	500.0	-11.0
1950.000	H	22.1		2.3	33.1	0.0	-13.3	44.1	160.4	916.7	-15.1
1950.000	V	23.2		2.3	33.1	0.0	-13.3	45.3	183.7	916.7	-14.0
2340.000	H	15.4		2.6	32.5	0.0	-13.3	37.2	72.2	500.0	-16.8
2340.000	V	16.3		2.6	32.5	0.0	-13.3	38.1	80.4	500.0	-15.9
2730.000	H	20.2		2.8	33.7	0.0	-13.3	43.4	147.6	500.0	-10.6
2730.000	V	17.1		2.8	33.7	0.0	-13.3	40.3	103.4	500.0	-13.7
3120.000	H	16.5	*	3.0	33.5	0.0	-13.3	39.7	96.5	916.7	-19.6
3120.000	V	17.4	*	3.0	33.5	0.0	-13.3	40.6	106.5	916.7	-18.7
3510.000	H	18.1	*	3.2	34.1	0.0	-13.3	42.0	126.6	916.7	-17.2
3510.000	V	17.5	*	3.2	34.1	0.0	-13.3	41.5	118.8	916.7	-17.7
3900.000	H	18.6		3.4	34.3	0.0	-13.3	43.0	141.1	500.0	-11.0
3900.000	V	17.7		3.4	34.3	0.0	-13.3	42.0	126.3	500.0	-11.9

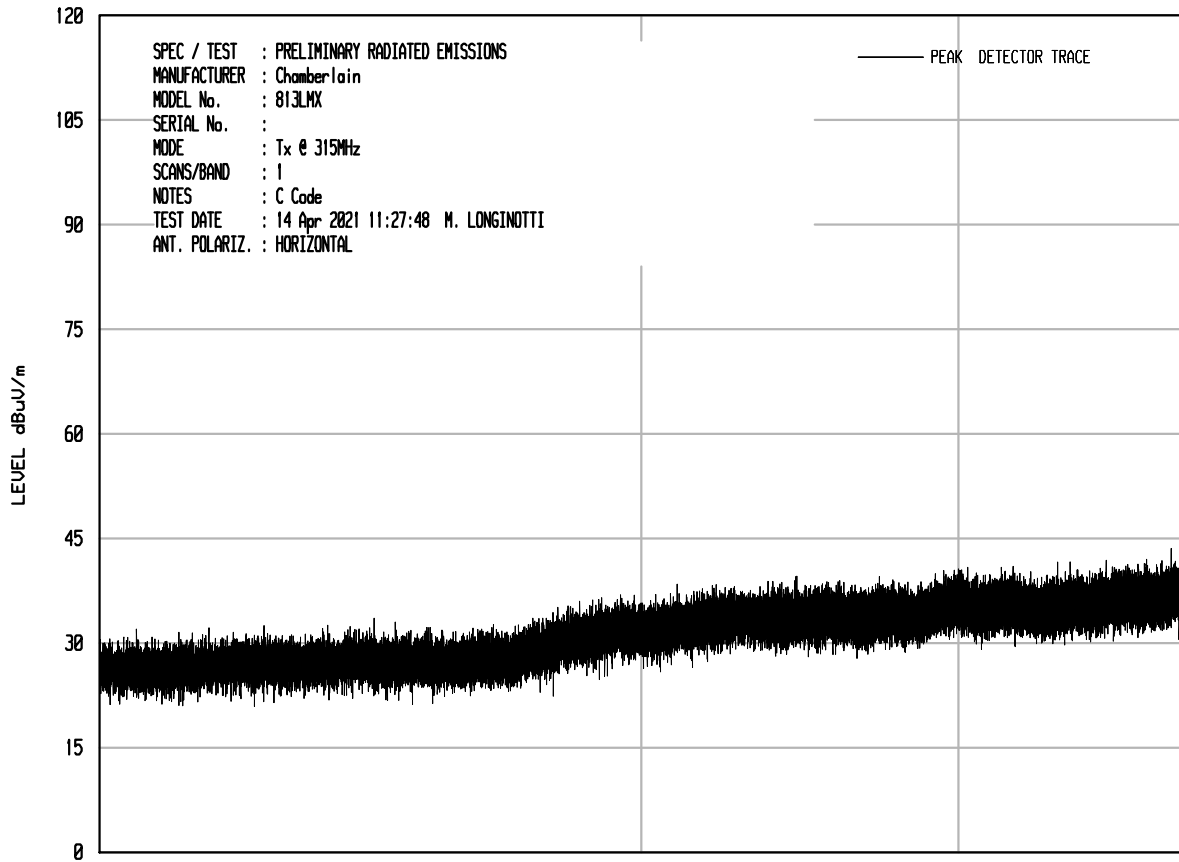




ELITE ELECTRONIC ENGINEERING Inc.
Downers Grove, Ill. 60515

WKAI 10/20/20

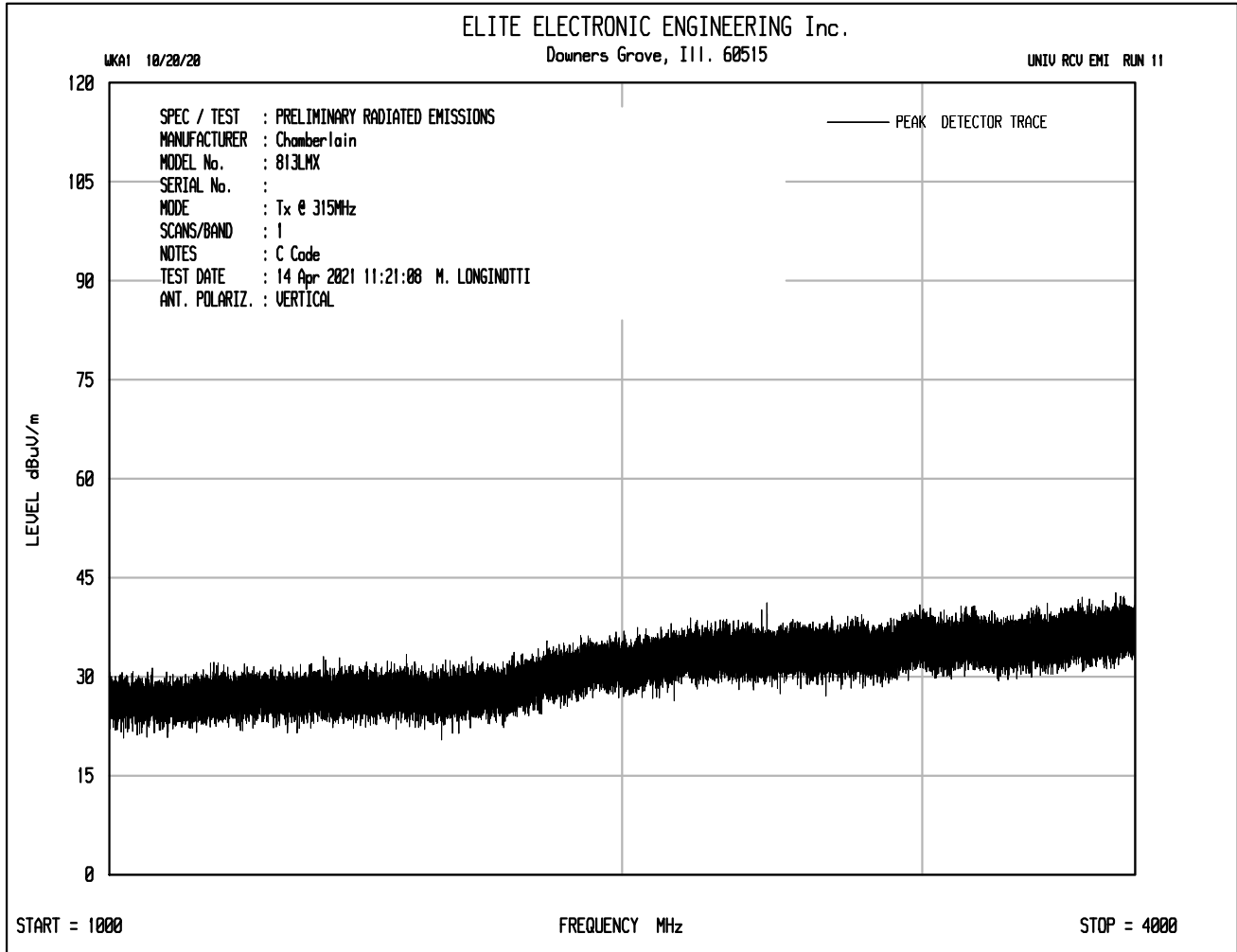
UNIU RCU EMI RUN 12



START = 1000

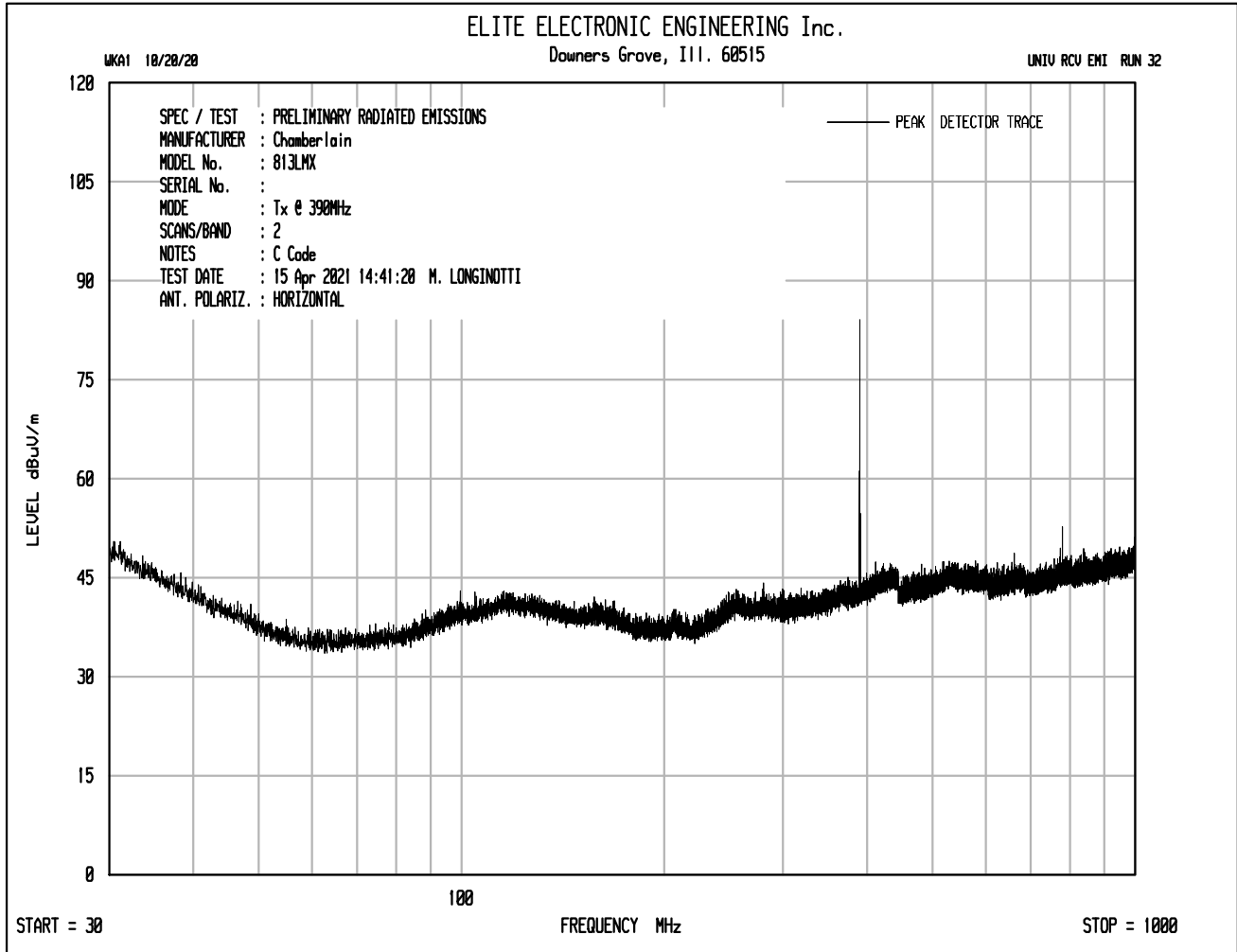
FREQUENCY MHz

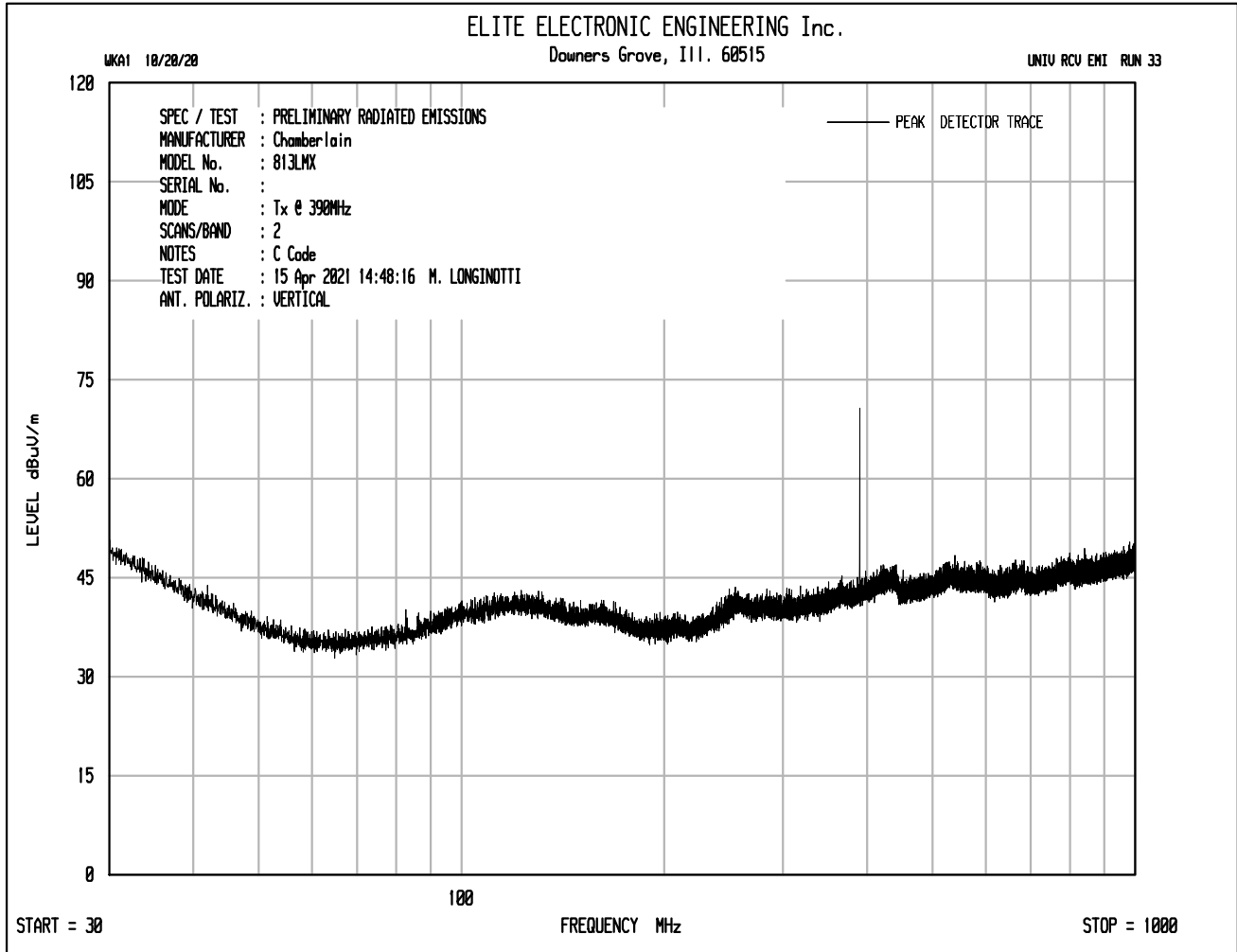
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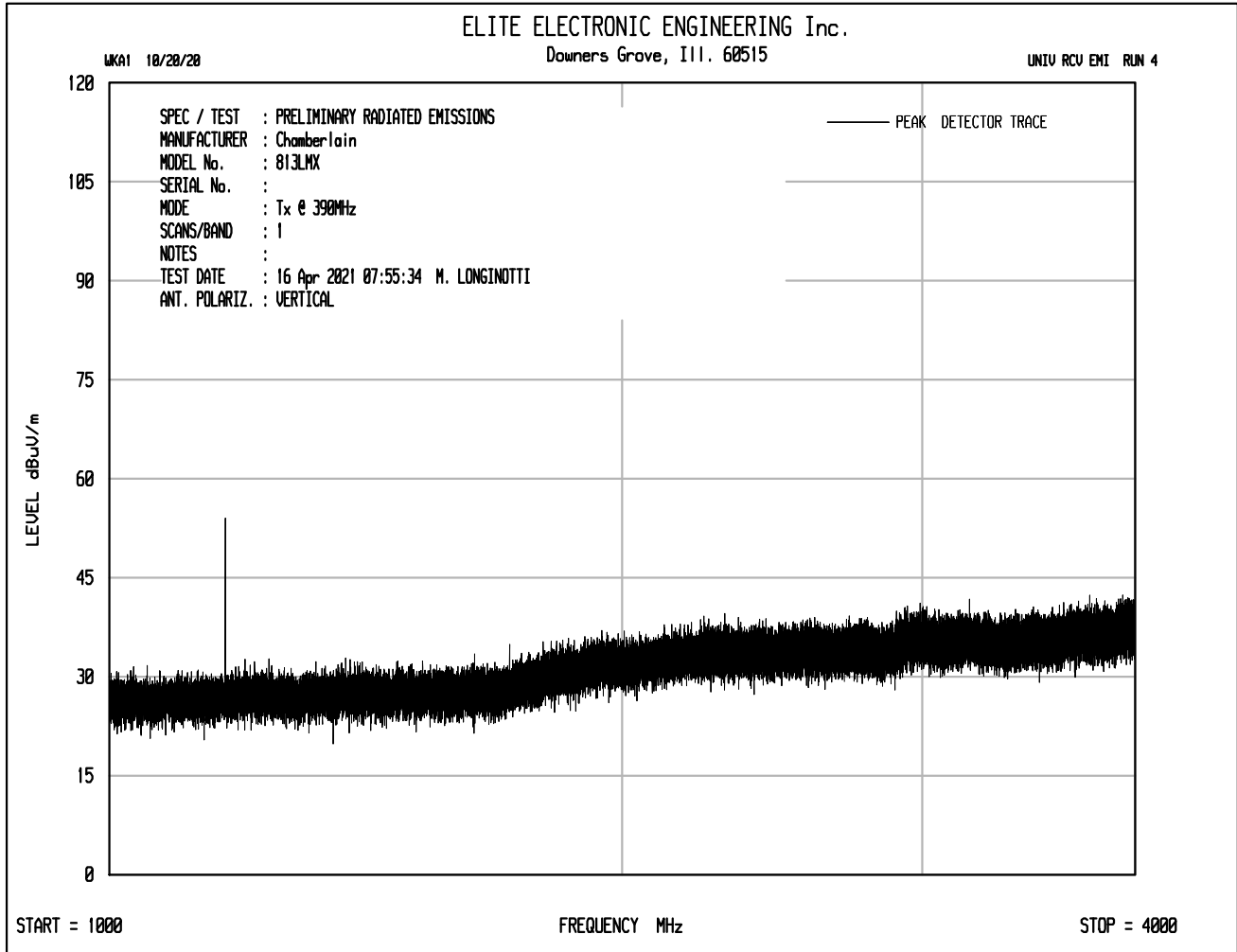


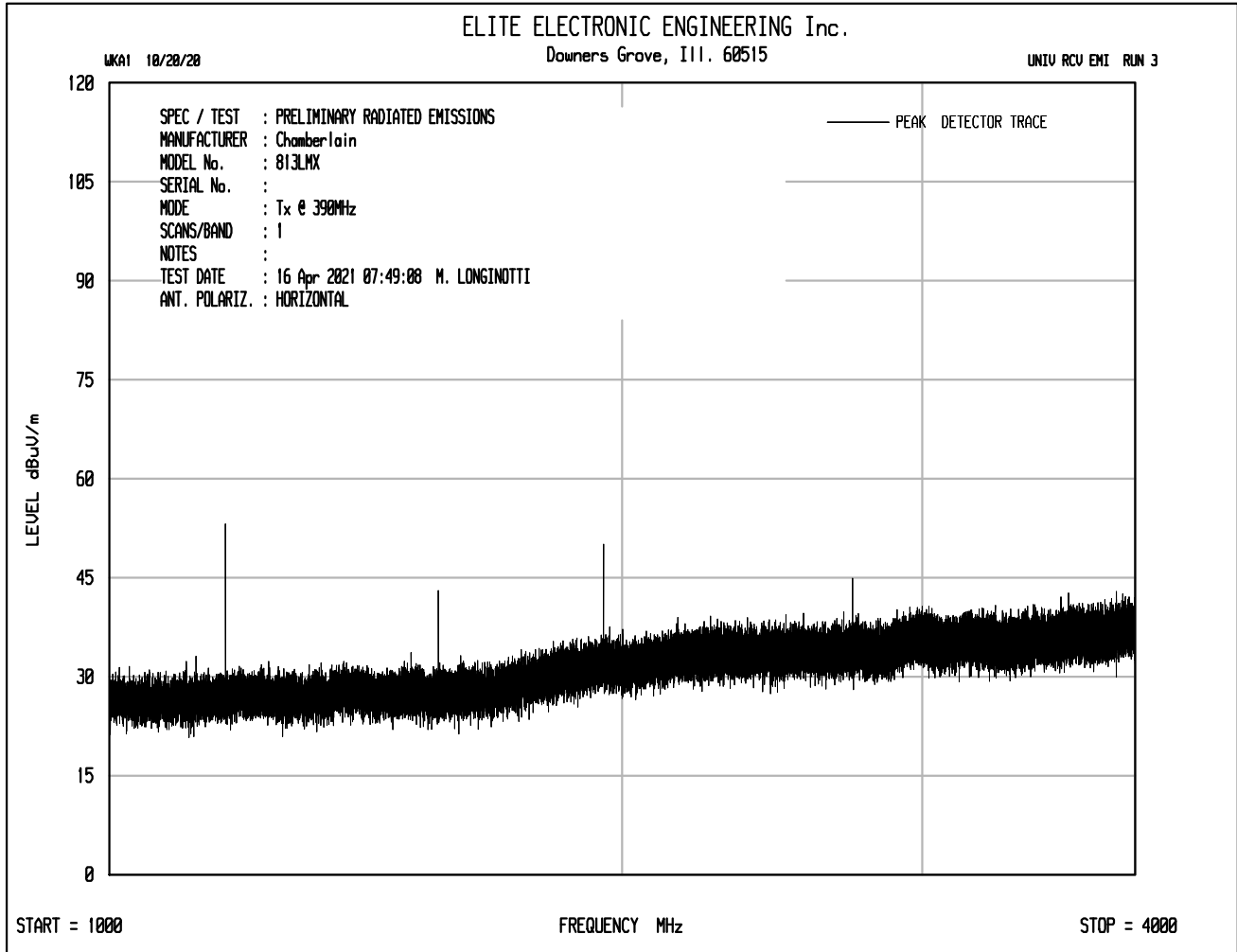
Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	811LMX
S/N	None Assigned
Mode	Continuous Transmission
Carrier Frequency	315MHz
Requirements	Field Strength of Carrier Limit = 6041.7 μ V/m
Notes	C Code

Freq. MHz	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBUV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
315.000	H	56.1		0.9	19.4	0.0	-11.9	64.6	1698.6	6041.7	-11.0
315.000	V	37.9		0.9	19.4	0.0	-11.9	46.4	209.0	6041.7	-29.2
630.000	H	9.5	Ambient	1.3	24.9	0.0	-11.9	23.9	15.7	604.2	-31.7
630.000	V	8.9	Ambient	1.3	24.9	0.0	-11.9	23.3	14.6	604.2	-32.3
945.000	H	14.8		1.6	27.0	0.0	-11.9	31.5	37.7	604.2	-24.1
945.000	V	10.8		1.6	27.0	0.0	-11.9	27.5	23.8	604.2	-28.1
1260.000	H	14.5	Ambient	1.9	29.8	0.0	-11.9	34.3	52.0	604.2	-21.3
1260.000	V	14.8	Ambient	1.9	29.8	0.0	-11.9	34.6	53.8	604.2	-21.0
1575.000	H	16.3		2.1	29.3	0.0	-11.9	35.9	62.1	500.0	-18.1
1575.000	V	15.1		2.1	29.3	0.0	-11.9	34.7	54.1	500.0	-19.3
1890.000	H	15.6	Ambient	2.3	32.3	0.0	-11.9	38.3	82.3	604.2	-17.3
1890.000	V	15.9	Ambient	2.3	32.3	0.0	-11.9	38.6	85.1	604.2	-17.0
2205.000	H	15.6	Ambient	2.5	32.5	0.0	-11.9	38.8	86.8	500.0	-15.2
2205.000	V	16.4	Ambient	2.5	32.5	0.0	-11.9	39.6	95.1	500.0	-14.4
2520.000	H	15.9	Ambient	2.7	33.6	0.0	-11.9	40.3	103.9	604.2	-15.3
2520.000	V	16.3	Ambient	2.7	33.6	0.0	-11.9	40.7	108.7	604.2	-14.9
2835.000	H	16.5	Ambient	2.9	33.2	0.0	-11.9	40.8	109.2	500.0	-13.2
2835.000	V	16.5	Ambient	2.9	33.2	0.0	-11.9	40.8	109.2	500.0	-13.2
3150.000	H	17.2	Ambient	3.0	33.7	0.0	-11.9	42.0	126.5	604.2	-13.6
3150.000	V	17.1	Ambient	3.0	33.7	0.0	-11.9	41.9	125.1	604.2	-13.7









Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	811LMX
S/N	None Assigned
Mode	Continuous Transmission
Carrier Frequency	390MHz
Requirements	Field Strength of Carrier Limit = 9166.7 μ V/m
Notes	C Code

Freq. MHz	Ant Pol	Meter Reading (dBUV)	Ambient	CBL Fac (dB)	Ant Fac (dB/m)	Pre Amp (dB)	Duty Cycle (dB)	Total (dBUV/m)	Total (uV/m)	Limit (uV/m)	Margin (dB)
390.000	H	62.2		1.0	21.6	0.0	-11.9	72.9	4428.4	9166.7	-6.3
390.000	V	48.9		1.0	21.6	0.0	-11.9	59.6	957.7	9166.7	-19.6
780.000	H	25.2		1.4	25.8	0.0	-11.9	40.5	106.3	916.7	-18.7
780.000	V	22.5		1.4	25.8	0.0	-11.9	37.8	77.9	916.7	-21.4
1170.000	H	27.8		1.8	29.3	0.0	-11.9	47.0	222.9	500.0	-7.0
1170.000	V	28.3		1.8	29.3	0.0	-11.9	47.5	236.1	500.0	-6.5
1560.000	H	21.8		2.1	29.2	0.0	-11.9	41.2	114.5	500.0	-12.8
1560.000	V	21.2		2.1	29.2	0.0	-11.9	40.6	106.9	500.0	-13.4
1950.000	H	25.7		2.3	33.1	0.0	-11.9	49.2	287.2	916.7	-10.1
1950.000	V	22.2		2.3	33.1	0.0	-11.9	45.7	192.0	916.7	-13.6
2340.000	H	16.5	Ambient	2.6	32.5	0.0	-11.9	39.7	96.4	500.0	-14.3
2340.000	V	17.1	Ambient	2.6	32.5	0.0	-11.9	40.3	103.3	500.0	-13.7
2730.000	H	17.7	ambient	2.8	33.7	0.0	-11.9	42.3	130.8	500.0	-11.6
2730.000	V	19.3	Ambient	2.8	33.7	0.0	-11.9	43.9	157.3	500.0	-10.0
3120.000	H	17.3	Ambient	3.0	33.5	0.0	-11.9	41.9	124.3	916.7	-17.4
3120.000	V	17.2	Ambient	3.0	33.5	0.0	-11.9	41.8	122.9	916.7	-17.5
3510.000	H	17.2	Ambient	3.2	34.1	0.0	-11.9	42.6	134.4	916.7	-16.7
3510.000	V	17.7	Ambient	3.2	34.1	0.0	-11.9	43.1	142.4	916.7	-16.2
3900.000	H	18.5	Ambient	3.4	34.3	0.0	-11.9	44.3	163.5	500.0	-9.7
3900.000	V	17.7	Ambient	3.4	34.3	0.0	-11.9	43.5	149.1	500.0	-10.5

23. Occupied Bandwidth Measurements

Test Information	
Manufacturer	Chamberlain Group, Inc.
Product	Door and Gate Operator
Model	813LMX
Serial No	None Assigned
Mode	Normal Operation
Test Date	March 23 to 24, 2021

Test Setup Details	
Setup Format	Tabletop
Height of Support	NA
Type of Test Site	Shielded Enclosure
Notes	None

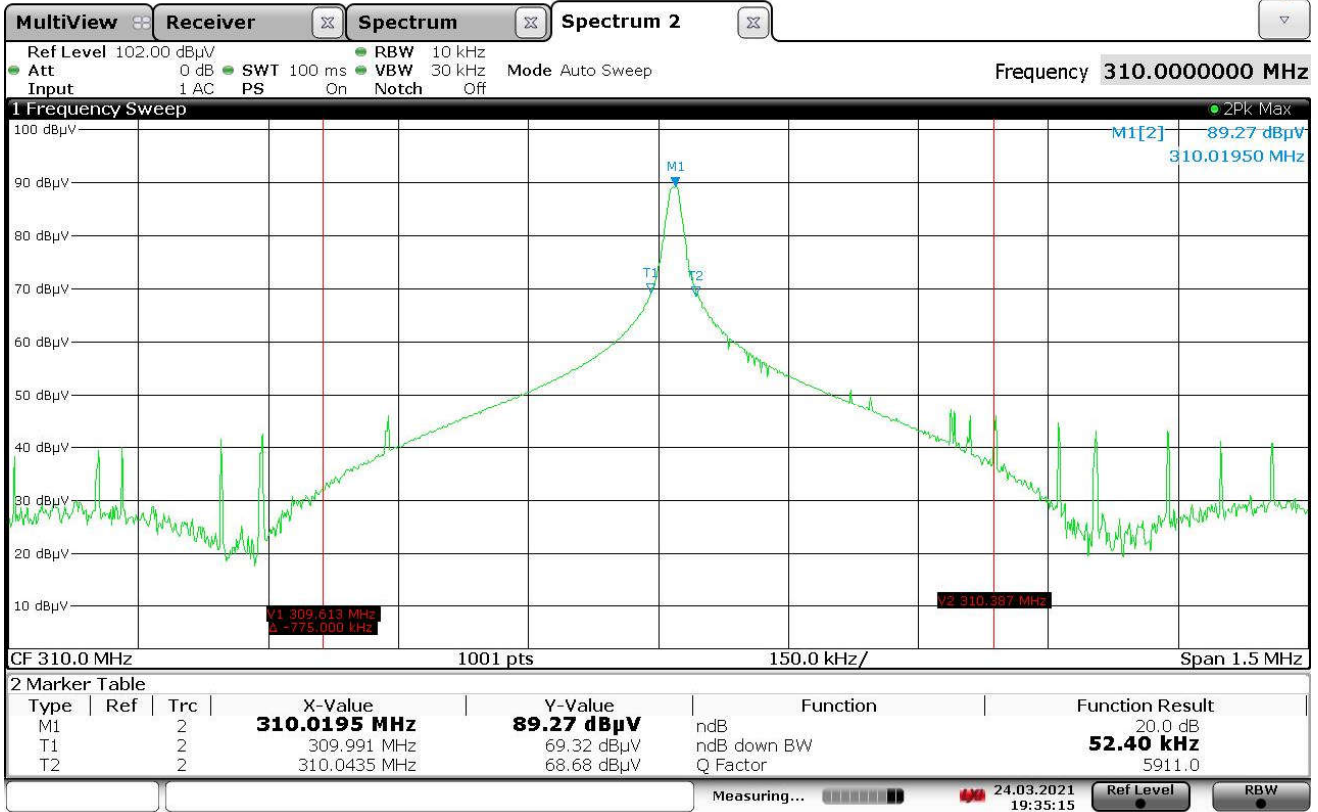
Measurement Uncertainty	
Measurement Type	Expanded Measurement Uncertainty
Radiated disturbance (electric field strength on an open area test site or alternative test site) (30 MHz – 1000 MHz)	4.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (1 GHz – 6 GHz)	3.1
Radiated disturbance (electric field strength on an open area test site or alternative test site) (6 GHz – 18 GHz)	3.2
Radiated disturbance (electric field strength on an open area test site or alternative test site) (18 GHz – 26.5 GHz)	3.3
Radiated disturbance (electric field strength on an open area test site or alternative test site) (26.5 GHz – 40 GHz)	3.4

Requirements
<p>FCC 15.231(c):</p> <p>The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.</p> <p>Additionally, the occupied bandwidth (99% Bandwidth) of momentarily operated devices shall be less than or equal to 0.25% of the center frequency for devices operating between 70 MHz and 900 MHz. For devices operating above 900 MHz, the occupied bandwidth shall be less than or equal to 0.5% of the center frequency.</p>

Procedures

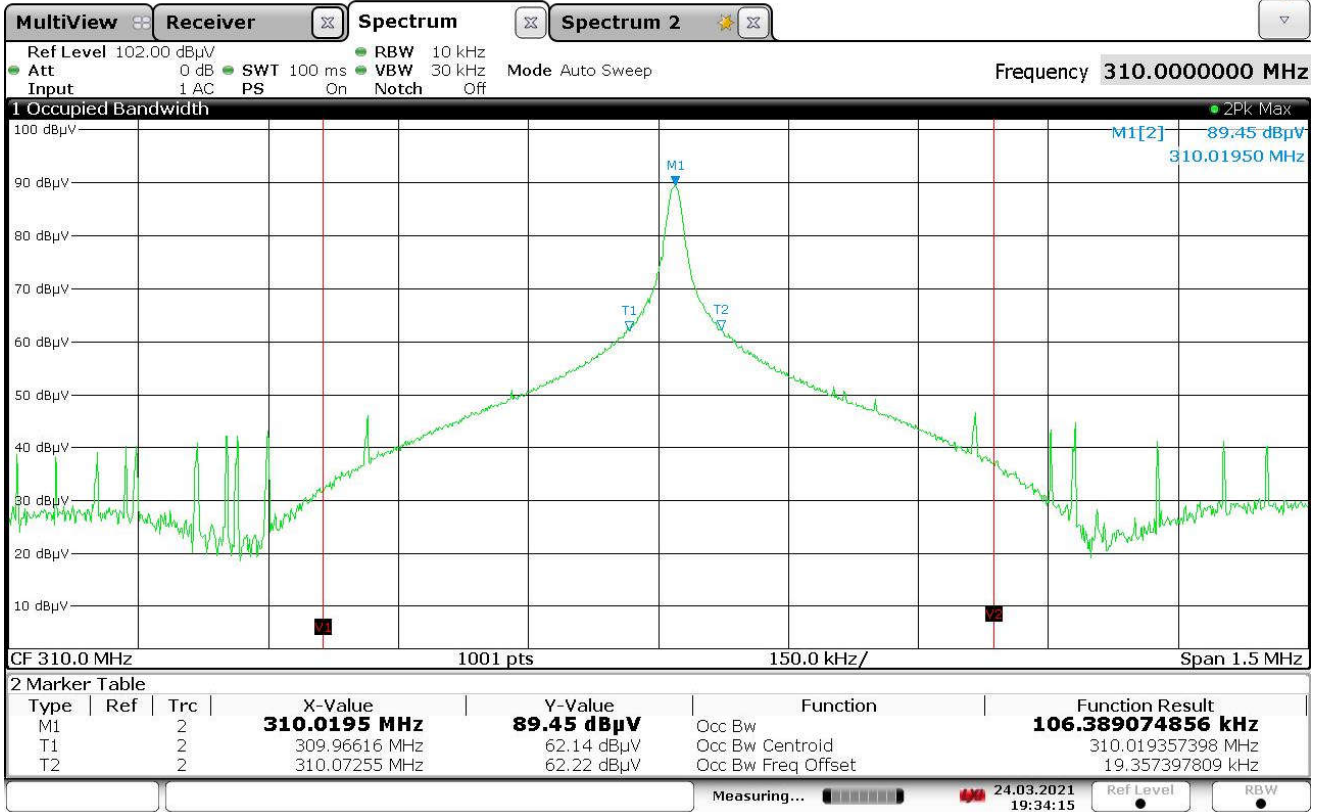
The EUT was placed on an 80cm high non-conductive stand. The unit was set to transmit continuously. With an antenna positioned nearby, occupied bandwidth emissions were displayed on the spectrum analyzer. The resolution bandwidth was set to 10kHz and span was set to 1.5MHz. A screen capture was taken of the frequency spectrum near the carrier using a screen dump function on the spectrum analyzer.

Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	813LMX
S/N	None Assigned
Mode	Normal Operation
Carrier Frequency	310MHz
Parameters	20dB BW = 52.40kHz
Notes	EDIP Code



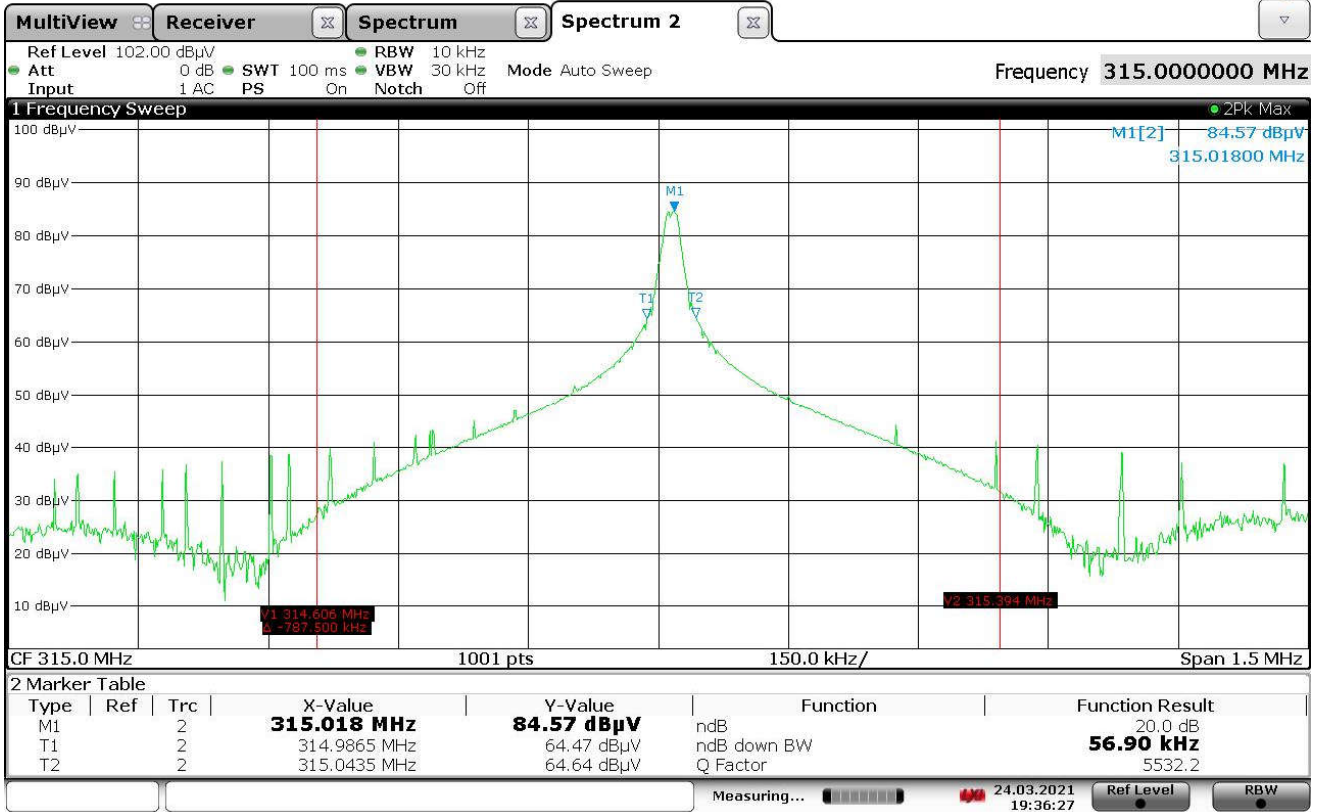
19:35:15 24.03.2021

Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	813LMX
S/N	None Assigned
Mode	Normal Operation
Carrier Frequency	310MHz
Parameters	99% BW = 106.39kHz
Notes	EDIP Code



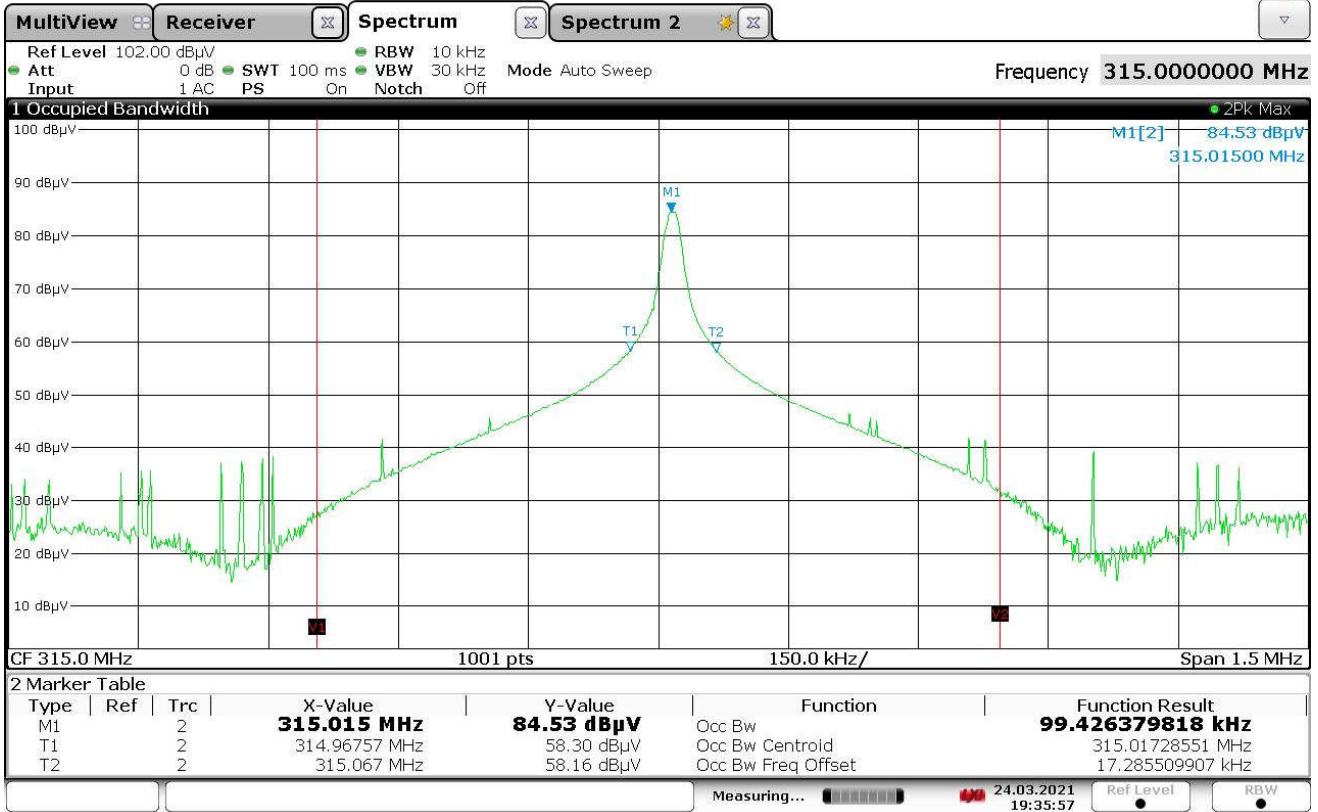
19:34:15 24.03.2021

Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	813LMX
S/N	None Assigned
Mode	Normal Operation
Carrier Frequency	315MHz
Parameters	20dB BW = 56.90kHz
Notes	EDIP Code



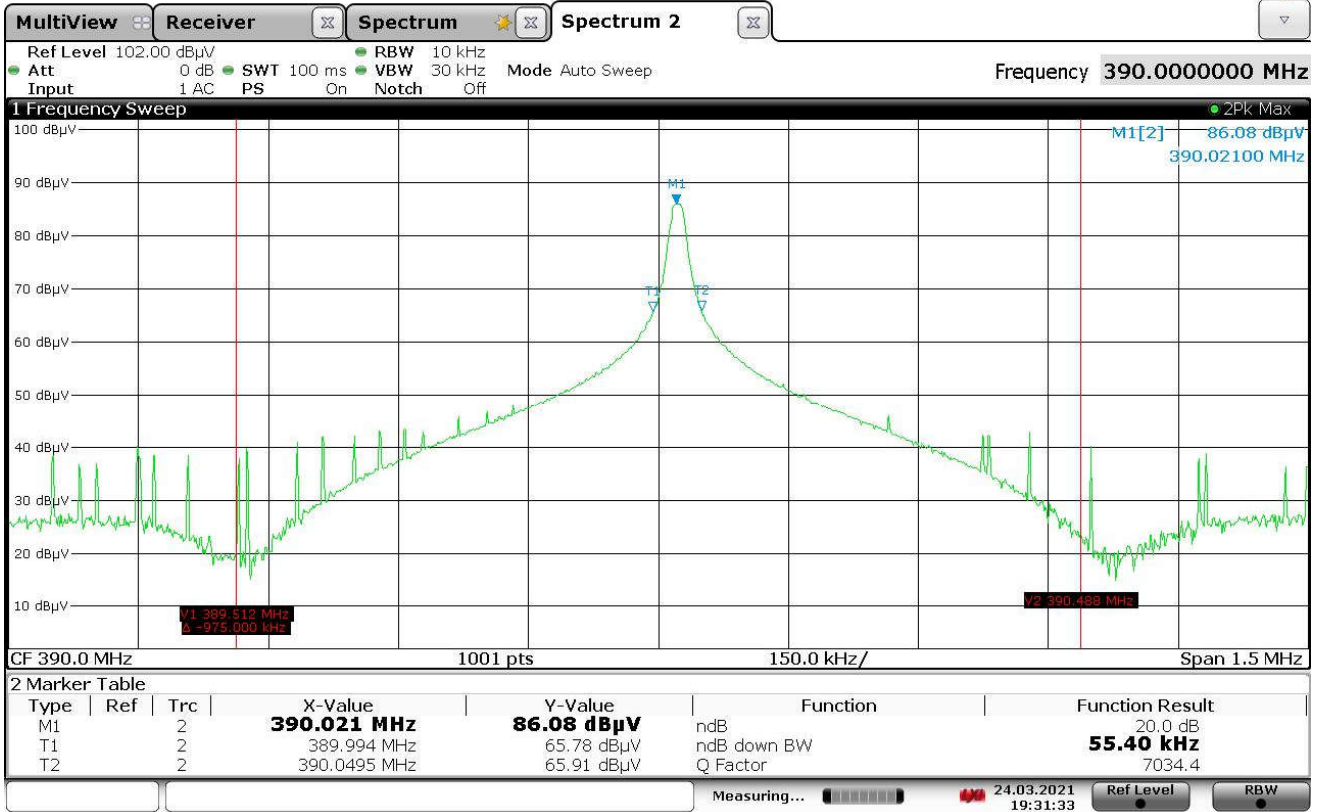
19:36:27 24.03.2021

Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	813LMX
S/N	None Assigned
Mode	Normal Operation
Carrier Frequency	315MHz
Parameters	99% BW = 99.43kHz
Notes	EDIP Code



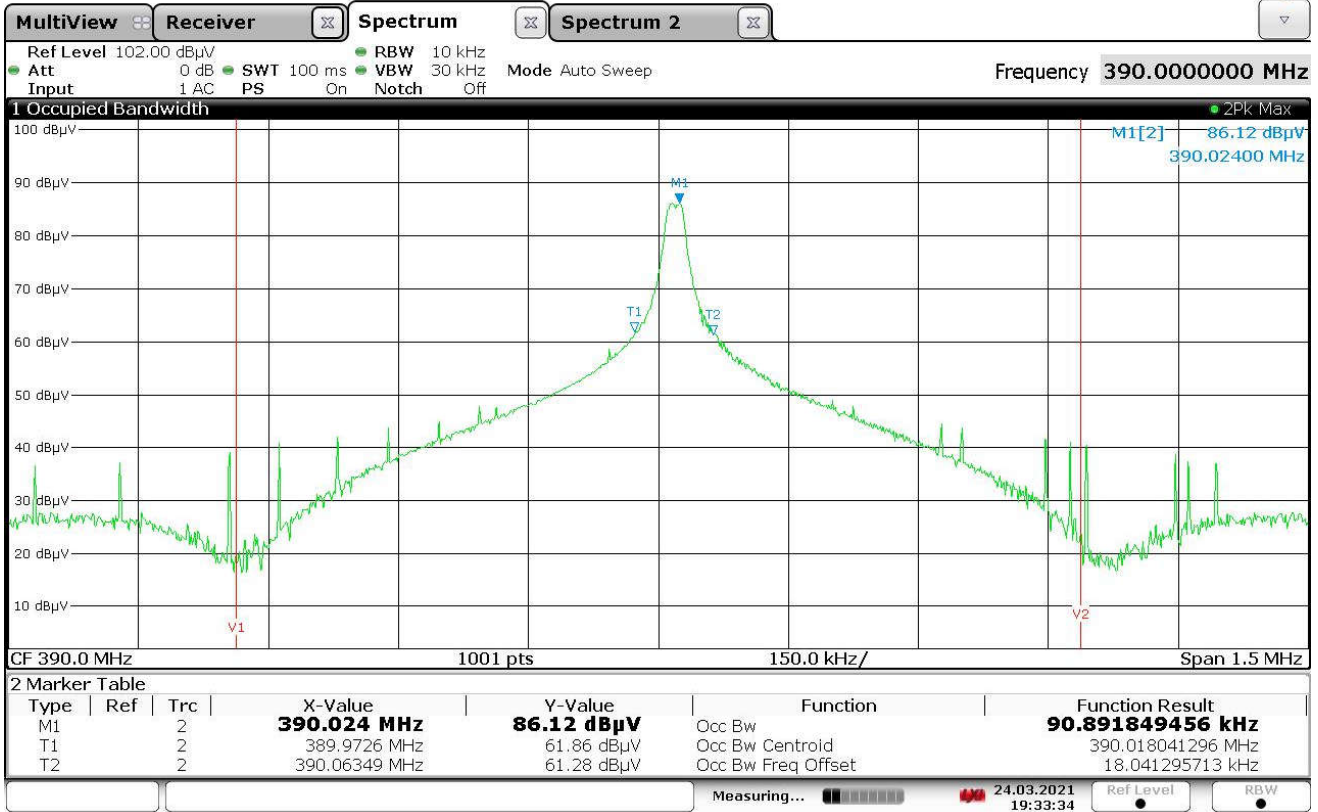
19:35:58 24.03.2021

Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	813LMX
S/N	None Assigned
Mode	Normal Operation
Carrier Frequency	390MHz
Parameters	20dB BW = 55.40kHz
Notes	EDIP Code



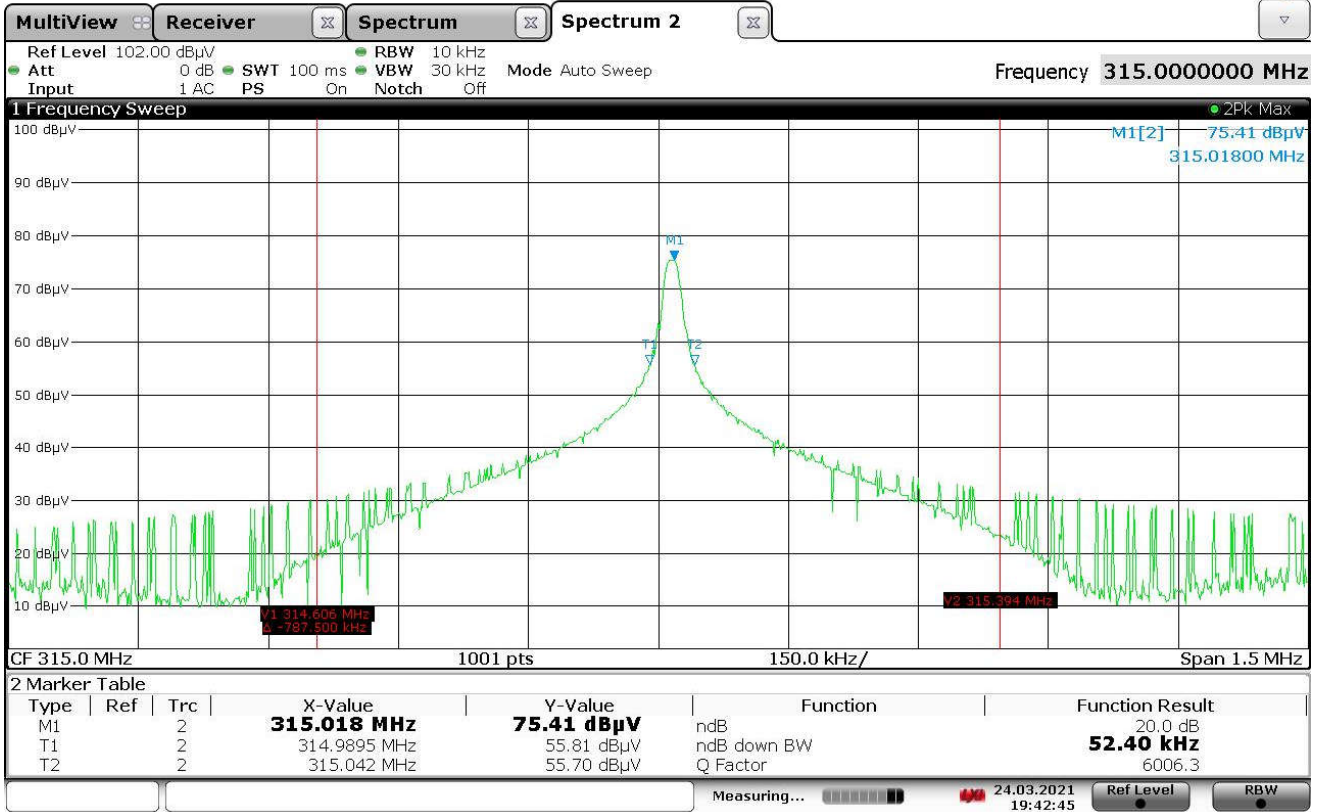
19:31:34 24.03.2021

Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	813LMX
S/N	None Assigned
Mode	Normal Operation
Carrier Frequency	390MHz
Parameters	99% BW = 90.89kHz
Notes	EDIP Code



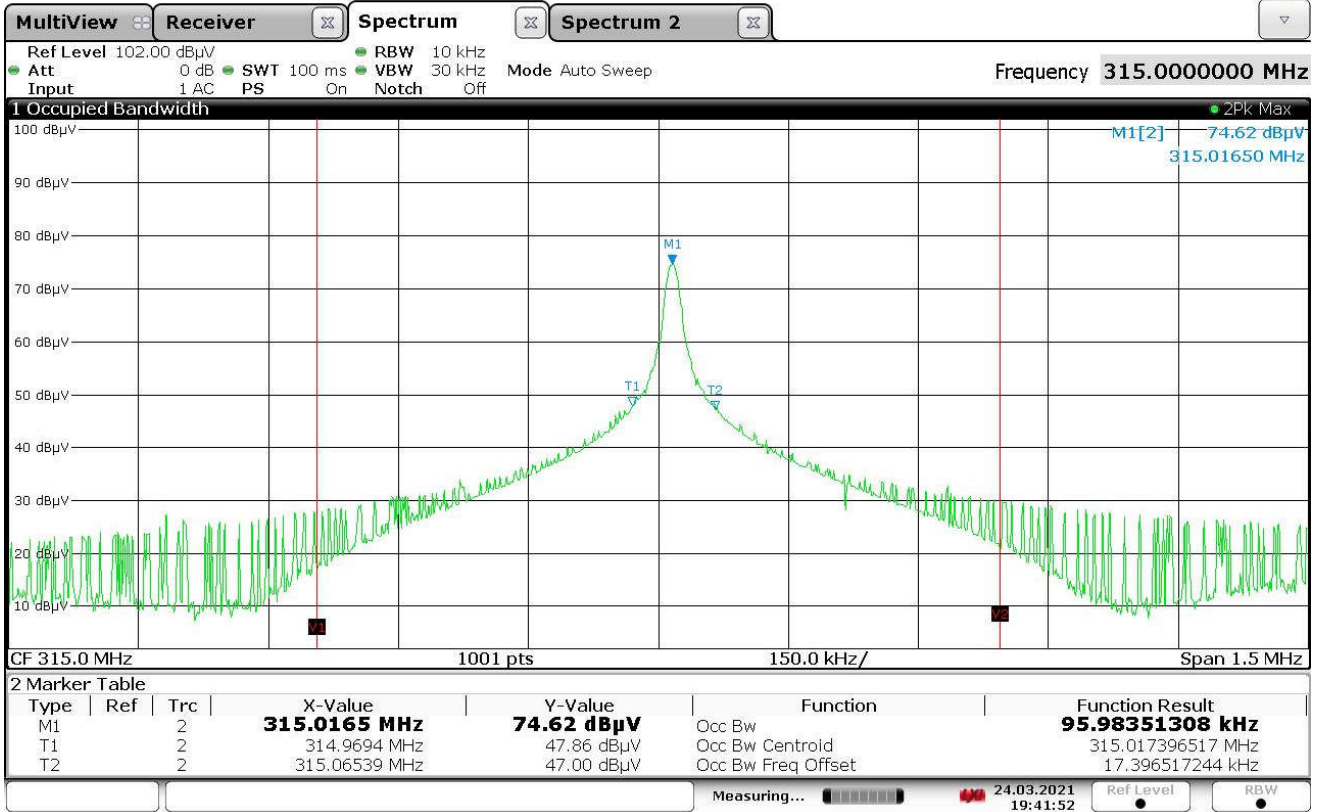
19:33:35 24.03.2021

Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	811LMX
S/N	None Assigned
Mode	Normal Operation
Carrier Frequency	315MHz
Parameters	20dB BW = 52.40kHz
Notes	C Code



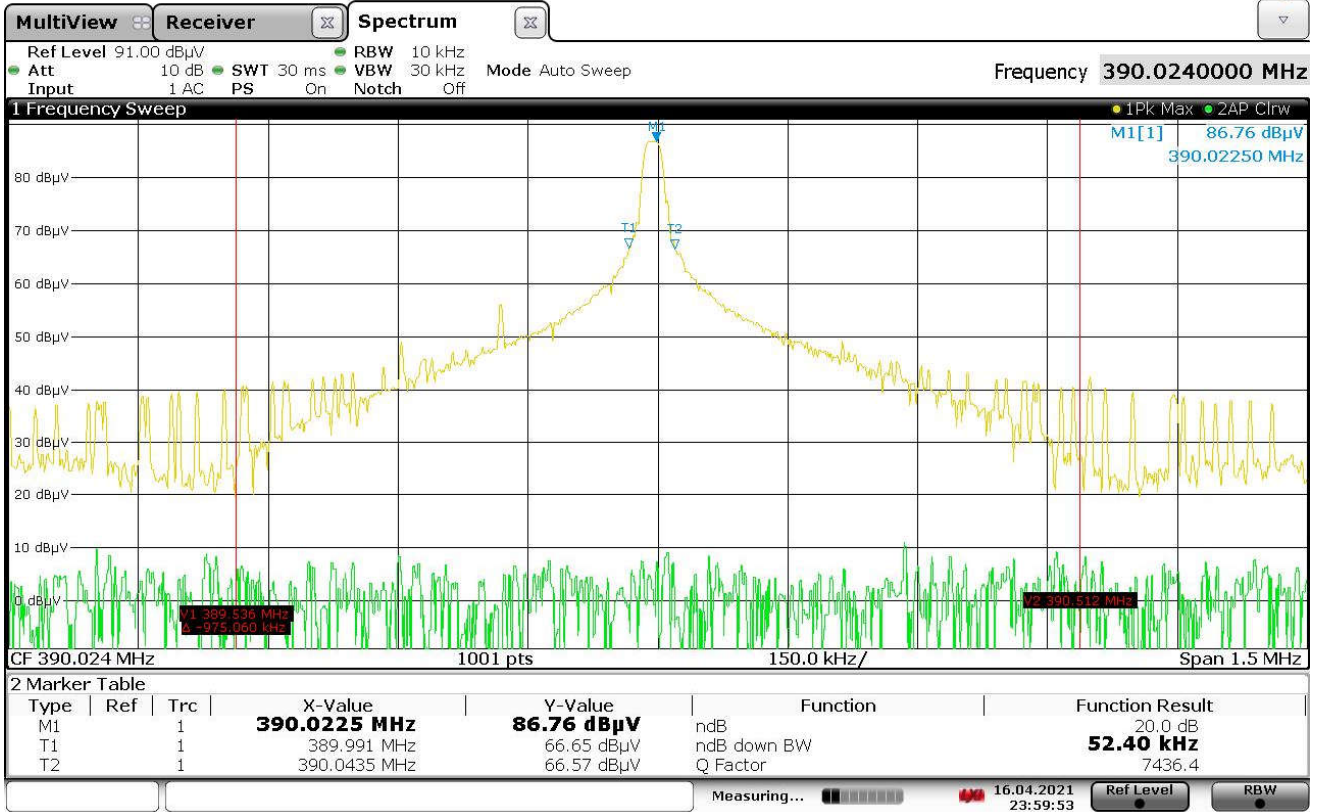
19:42:45 24.03.2021

Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	811LMX
S/N	None Assigned
Mode	Normal Operation
Carrier Frequency	315MHz
Parameters	99% BW = 95.98kHz
Notes	C Code



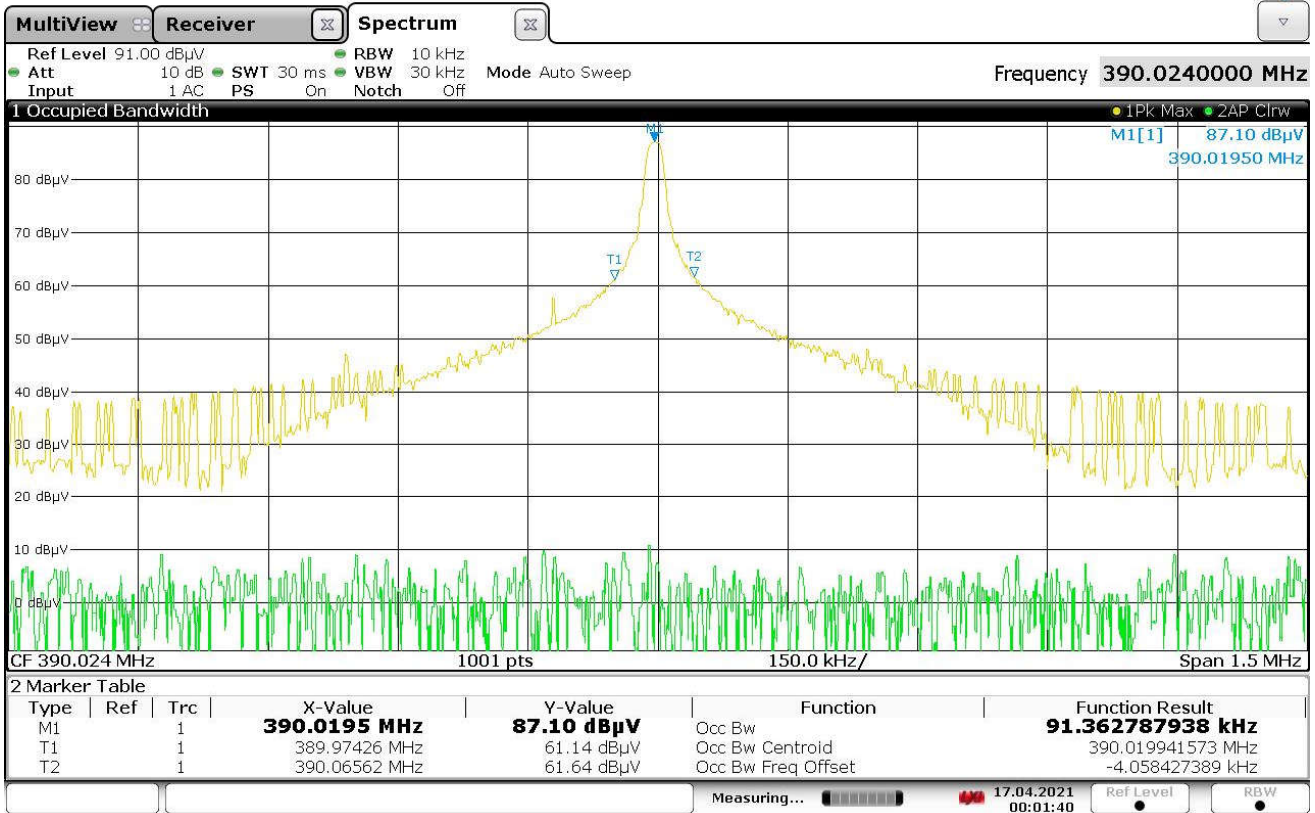
19:41:53 24.03.2021

Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	811LMX
S/N	None Assigned
Mode	Normal Operation
Carrier Frequency	390MHz
Parameters	20dB BW = 52.4kHz
Notes	C Code



23:59:54 16.04.2021

Test Details	
Manufacturer	Chamberlain Group, Inc.
Model	811LMX
S/N	None Assigned
Mode	Normal Operation
Carrier Frequency	390MHz
Parameters	99% BW = 91.36kHz
Notes	C Code



00:01:40 17.04.2021

24. Scope of Accreditation

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

ELITE ELECTRONIC ENGINEERING, INC.
1516 Centre Circle
Downers Grove, IL 60515
Robert Bugielski (QA Manager) Phone: 630 495 9770 ext. 168
Email: rbugielski@elitetest.com
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Richard King (FCC/Commercial Team Leader) Phone: 630 495 9770 ext. 123
Email: reking@elitetest.com
Website: www.elitetest.com

ELECTRICAL

Valid to: June 30, 2021

Certificate Number: 1786.01

In recognition of the successful completion of the A2LA Accreditation Program evaluation process, accreditation is granted to this laboratory to perform the following automotive electromagnetic compatibility and other electrical tests:

Test Technology:**Test Method(s) ¹:*****Transient Immunity***

ISO 7637-2 (including emissions); ISO 7637-3;
ISO 16750-2:2012, Sections 4.6.3 and 4.6.4;
CS-11979, Section 6.4; CS.00054, Section 5.9;
EMC-CS-2009.1 (CI220); FMC1278 (CI220, CI221, CI222);
GMW 3097, Section 3.5;
SAE J1113-11; SAE J1113-12;
ECE Regulation 10.06 Annex 10

Electrostatic Discharge (ESD)

ISO 10605 (2001, 2008);
CS-11979 Section 7.0; CS.00054, Section 5.10;
EMC-CS-2009.1 (CI 280); FMC1278 (CI280); SAE J1113-13;
GMW 3097 Section 3.6

Conducted Emissions

CISPR 25 (2002, 2008), Sections 6.2 and 6.3;
CISPR 25 (2016), Sections 6.3 and 6.4;
CS-11979, Section 5.1; CS.00054, Sections 5.6.1 and 5.6.2;
GMW 3097, Section 3.3.2;
EMC-CS-2009.1 (CE 420); FMC1278 (CE420, CE421)

(A2LA Cert. No. 1786.01) Revised 12/02/2020



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5202 Presidents Court, Suite 220 | Frederick, MD 21703-8515 | Phone: 301 644 3248 | Fax: 240 454 9449 | www.A2LA.org

Test Technology:

Test Method(s) ¹:

Radiated Emissions Anechoic

CISPR 25 (2002, 2008), Section 6.4;
 CISPR 25 (2016), Section 6.5;
 CS-11979, Section 5.3; CS.00054, Section 5.6.3;
 GMW 3097, Section 3.3.1;
 EMC-CS-2009.1 (RE 310); FMC1278 (RE310);
 ECE Regulation 10.06 Annex 7 (Broadband)
 ECE Regulation 10.06 Annex 8 (Narrowband)

Vehicle Radiated Emissions

CISPR 12; ICES-002; ECE Regulation 10.06 Annex 5

Bulk Current Injection (BCI)

ISO 11452-4;
 CS-11979, Section 6.1; CS.00054, Section 5.8.1;
 GMW 3097, Section 3.4.1;
 SAE J1113-4;
 EMC-CS-2009.1 (RII12); FMC1278 (RII12);
 ECE Regulation 10.06 Annex 9

*Bulk Current Injections (BCI)
 (Closed Loop Method)*

ISO 11452-4; SAE J1113-4

*Radiated Immunity Anechoic
 (Including Radar Pulse)*

ISO 11452-2; ISO 11452-5;
 CS-11979, Section 6.2; CS.00054, Section 5.8.2;
 GMW 3097, Section 3.4.2;
 EMC-CS-2009.1 (RII14); FMC1278 (RII14); SAE J1113-21;
 ECE Regulation 10.06 Annex 9

Radiated Immunity Magnetic Field

ISO 11452-8

Radiated Immunity Reverb

ISO/IEC 61000-4-21;
 GMW 3097, Section 3.4.3;
 EMC-CS-2009.1 (RII14); FMC1278 (RII14);
 ISO 11452-11

*Radiated Immunity
 (Portable Transmitters)*

ISO 11452-9;
 EMC-CS-2009.1 (RII15); FMC1278 (RII15)

Vehicle Radiated Immunity (ALSE)

ISO 11451-2; ECE Regulation 10.06 Annex 6

Electrical Loads

ISO 16750-2, Sections 4.2, 4.3, 4.4, 4.5, 4.6, 4.7,
 4.8, 4.9, 4.11, and 4.12

Dielectric Withstand Voltage

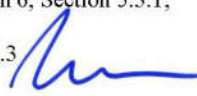
MIL-STD-202, Method 301;
 EIA-364-20D

Insulation Resistance

MIL-STD-202, Method 302;
 SAE/USCAR-2, Revision 6, Section 5.5.1;
 EIA-364-21D

Contact Resistance

MIL-STD-202, Method 307;
 SAE/USCAR-2, Revision 6, Section 5.3.1;
 EIA-364-23C;
 USCAR21-3 Section 4.5.3



Test Technology:

Test Method(s) ¹:

DC Resistance

MIL-STD-202, Method 303

Contact Chatter

MIL-STD-202, Method 310;
SAE/USCAR-2, Revision 6, Section 5.1.9

Voltage Drop

SAE/USCAR-2, Revision 6, Section 5.3.2;
USCAR21-3 Section 4.5.6

Emissions

Radiated and Conducted
(3m Semi-anechoic chamber,
up to 40 GHz)

47 CFR, FCC Part 15 B (using ANSI C63.4:2014);
47 CFR, FCC Part 18 (using FCC MP-5:1986);
ICES-001; ICES-003; ICES-005;
IEC/CISPR 11, Ed. 4.1 (2004-06); AS/NZS CISPR 11 (2004);
IEC/CISPR 11 Ed 5 (2009-05) + A1 (2010);
KN 11 (2008-5) with RRL Notice No. 2008-3 (May 20, 2008);
CISPR 11; EN 55011; KN 11; CNS 13803 (1997, 2003);
CISPR 14-1; EN 55014-1; AS/NZS CISPR 14.1; KN 14-1;
IEC/CISPR 22 (1997); EN 55022 (1998) + A1(2000);
EN 55022 (1998) + A1(2000) + A2(2003); EN 55022 (2006);
IEC/CISPR 22 (2008-09); AS/NZS CISPR 22 (2004);
AS/NZS CISPR 22, 3rd Edition (2006); KN 22 (up to 6 GHz);
CNS 13438 (up to 6 GHz); VCCI V-3 (up to 6 GHz);
CISPR 32; EN 55032; KN 32; ECE Regulation 10.06 Annex 14

Current Harmonics

IEC 61000-3-2; EN 61000-3-2; KN 61000-3-2;
ECE Regulation 10.06 Annex 11

Flicker and Fluctuations

IEC 61000-3-3; EN 61000-3-3; KN 61000-3-3;
ECE Regulation 10.06 Annex 12

Immunity

Electrostatic Discharge

IEC 61000-4-2, Ed. 1.2 (2001);
IEC 61000-4-2 (1995) + A1(1998) + A2(2000);
EN 61000-4-2 (1995); EN 61000-4-2 (2009-05);
KN 61000-4-2 (2008-5); RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-2; EN 61000-4-2; KN 61000-4-2;
IEEE C37.90.3 2001

Radiated Immunity

IEC 61000-4-3 (1995) + A1(1998) + A2(2000);
IEC 61000-4-3, Ed. 3.0 (2006-02);
IEC 61000-4-3, Ed. 3.2 (2010);
KN 61000-4-3 (2008-5); RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-3; EN 61000-4-3; KN 61000-4-3;
IEEE C37.90.2 2004

Electrical Fast Transient/Burst

IEC 61000-4-4, Ed. 2.0 (2004-07); IEC 61000-4-4, Ed. 2.1 (2011);
IEC 61000-4-4 (1995) + A1(2000) + A2(2001);
KN 61000-4-4 (2008-5); RRL Notice No. 2008-5 (May 20, 2008);
IEC 61000-4-4; EN 61000-4-4; KN 61000-4-4;
ECE Regulation 10.06 Annex 15



Test Technology:**Test Method(s) ¹:****Immunity (cont'd)**

Surge

IEC 61000-4-5 (1995) + A1(2000);
IEC 61000-4-5, Ed 1.1 (2005-11);
EN 61000-4-5 (1995) + A1(2001);
KN 61000-4-5 (2008-5); RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-5; EN 61000-4-5; KN 61000-4-5;
IEEE C37.90.1 2012; IEEE STD C62.41.2 2002;
ECE Regulation 10.06 Annex 16

Conducted Immunity

IEC 61000-4-6 (1996) + A1(2000);
IEC 61000-4-6, Ed 2.0 (2006-05);
IEC 61000-4-6 Ed. 3.0 (2008);
KN 61000-4-6 (2008-5); RRL Notice No. 2008-4 (May 20, 2008);
EN 61000-4-6 (1996) + A1(2001); IEC 61000-4-6; EN 61000-4-6;
KN 61000-4-6

Power Frequency Magnetic Field Immunity

IEC 61000-4-8 (1993) + A1(2000); IEC 61000-4-8 (2009);
EN 61000-4-8 (1994) + A1(2000);
KN 61000-4-8 (2008-5); RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-8; EN 61000-4-8; KN 61000-4-8

Voltage Dips, Short Interrupts, and Line Voltage Variations

IEC 61000-4-11, Ed. 2 (2004-03);
KN 61000-4-11 (2008-5);
RRL Notice No. 2008-4 (May 20, 2008);
IEC 61000-4-11; EN 61000-4-11; KN 61000-4-11

Ring Wave

IEC 61000-4-12, Ed. 2 (2006-09);
EN 61000-4-12:2006;
IEC 61000-4-12; EN 61000-4-12; KN 61000-4-12;
IEEE STD C62.41.2 2002

Generic and Product Specific EMC Standards

IEC/EN 61000-6-1; AS/NZS 61000-6-1; KN 61000-6-1;
IEC/EN 61000-6-2; AS/NZS 61000-6-2; KN 61000-6-2;
IEC/EN 61000-6-3; AS/NZS 61000-6-3; KN 61000-6-3;
IEC/EN 61000-6-4; AS/NZS 61000-6-4; KN 61000-6-4;
EN 50130-4; EN 61326-1;
IEC/CISPR 14-2; EN 55014-2; AS/NZS CISPR 14.2; KN 14-2;
IEC/CISPR 24; AS/NZS CISPR 24; EN 55024; KN 24;
IEC 60601-1-2; JIS T0601-1-2

TxRx EMC Requirements

EN 301 489-1; EN 301 489-3; EN 301 489-9; EN 301 489-17;
EN 301 489-19

European Radio Test Standards

ETSI EN 300 086-1; ETSI EN 300 086-2;
ETSI EN 300 113-1; ETSI EN 300 113-2;
ETSI EN 300 220-1; ETSI EN 300 220-2;
ETSI EN 300 330-1; ETSI EN 300 330-2;
ETSI EN 300 440-1; ETSI EN 300 440-2;
ETSI EN 300 422-1; ETSI EN 300 422-2;

Test Technology:

Test Method(s) ¹:

*European Radio Test Standards
(cont'd)*

ETSI EN 300 328; ETSI EN 301 893;
ETSI EN 301 511; ETSI EN 301 908-1;
ETSI EN 908-2; ETSI EN 908-13;
ETSI EN 303 413; ETSI EN 302 502

Canadian Radio Tests

RSS-102 (RF Exposure Evaluation only); RSS-111; RSS-112;
RSS-117; RSS-119; RSS-123; RSS-125; RSS-127; RSS-130;
RSS-131; RSS-132; RSS-133; RSS-134; RSS-135; RSS-137;
RSS-139; RSS-140; RSS-141; RSS-142; RSS-170; RSS-181;
RSS-182; RSS-191; RSS-192; RSS-194; RSS-195; RSS-196;
RSS-197; RSS-199; RSS-210; RSS-211; RSS-213; RSS-215;
RSS-216; RSS-220; RSS-222; RSS-236; RSS-238; RSS-243;
RSS-244; RSS-247; RSS-251; RSS-252; RSS-287;
RSS-288; RSS-310; RSS-GEN

Mexico Radio Tests

IFT-008-2015; NOM-208-SCFI-2016

Japan Radio Tests

Radio Law No. 131, Ordinance of MPT No. 37, 1981,
MIC Notification No. 88:2004, Table No. 22-11;
ARIB STD-T66, Regulation 18

Taiwan Radio Tests

LP-0002

Australia/New Zealand Radio Tests

AS/NZS 4268; Radiocommunications (Short Range Devices)
Standard (2014)

Hong Kong Radio Tests

HKCA 1039 Issue 6; HKCA 1042; HKCA 1033 Issue 7;
HKCA 1061; HKCA 1008; HKCA 1043; HKCA 1057;
HKCA 1073

Korean Radio Test Standards

KN 301 489-1; KN 301 489-3; KN 301 489-9; KN 301 489-17;
KN 301 489-52

*Unlicensed Radio Frequency Devices
(3 Meter Semi-Anechoic Room)*

47 CFR FCC Part 15C, 15D, 15E, 15F, 15G, 15H
(using ANSI C63.10:2013, ANSI C63.17:2013 and
FCC KDB 905462 D02 (v02))

Licensed Radio Service Equipment

47 CFR FCC Parts 20, 22, 24, 25, 27, 30, 73, 74, 80, 87,
90, 95, 96, 97, 101;
ANSI/TIA-603-E; TIA-102.CAAA-E; ANSI C63.26:2015;

OTA (Over the Air) Performance

GSM, GPRS, EGPRS
UMTS (W-CDMA)
LTE including CAT MI
A-GPS for UMTS/GSM
LTS A-GPS, A-GLONASS,
SIB8/SIB16
Large Device/Laptop/Tablet Testing
Integrated Device Testing
WiFi 802.11 a/b/g/n/a

CTIA Test Plan for Wireless Device Over-the-Air Performance
(Method for Measurement for Radiated Power and Receiver
Performance) V3.8.2;
CTIA Test Plan for RF Performance Evaluation of WiFi Mobile
Converged Devices V2.1.0