



# Rohrerstown Elementary School

## RF Emissions Testing Results - 2019

Engineer: Jacob Hartwig  
Meter: Narda NBM-550  
Probe: EA5091 Electric Field Probe  
Calibration Due: April 1, 2021  
Test Date: May 9, 2019

## Introduction

V-COMM, L.L.C. has been commissioned by the Hempfield School District to perform an Electro Magnetic Energy (EME) field measurements survey to ensure that the existing radio facility complies with Federal Communications Commission (FCC) regulations as required by the Telecommunications Act of 1996.

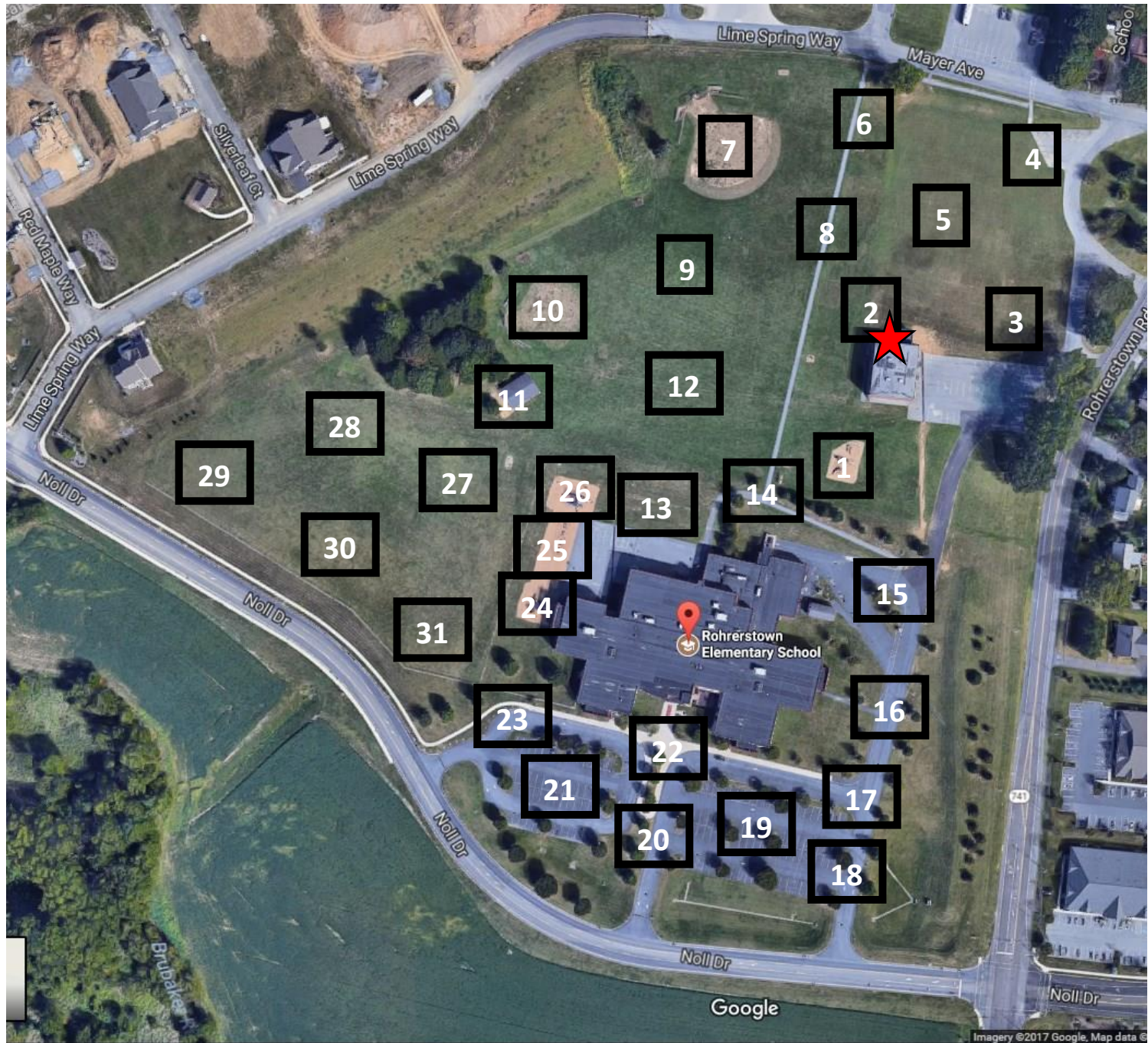
The evaluation of this site has been completed through on-site survey. This report will show that the RF strength measurements of the radio facility in question is in compliance with all appropriate Federal regulations in regards to Radio Frequency (RF) Emissions.

The radio facility is located on an existing tower at Rohrerstown Elementary School located at 2200 Noll Dr, Lancaster, PA 17603.

## Conclusion

All results were well within acceptable limits based on the FCC guidelines for EMF exposure and are in line with the previous measurements taken.

### Rohrerstown Elementary School Outdoor RF Emissions Testing Locations



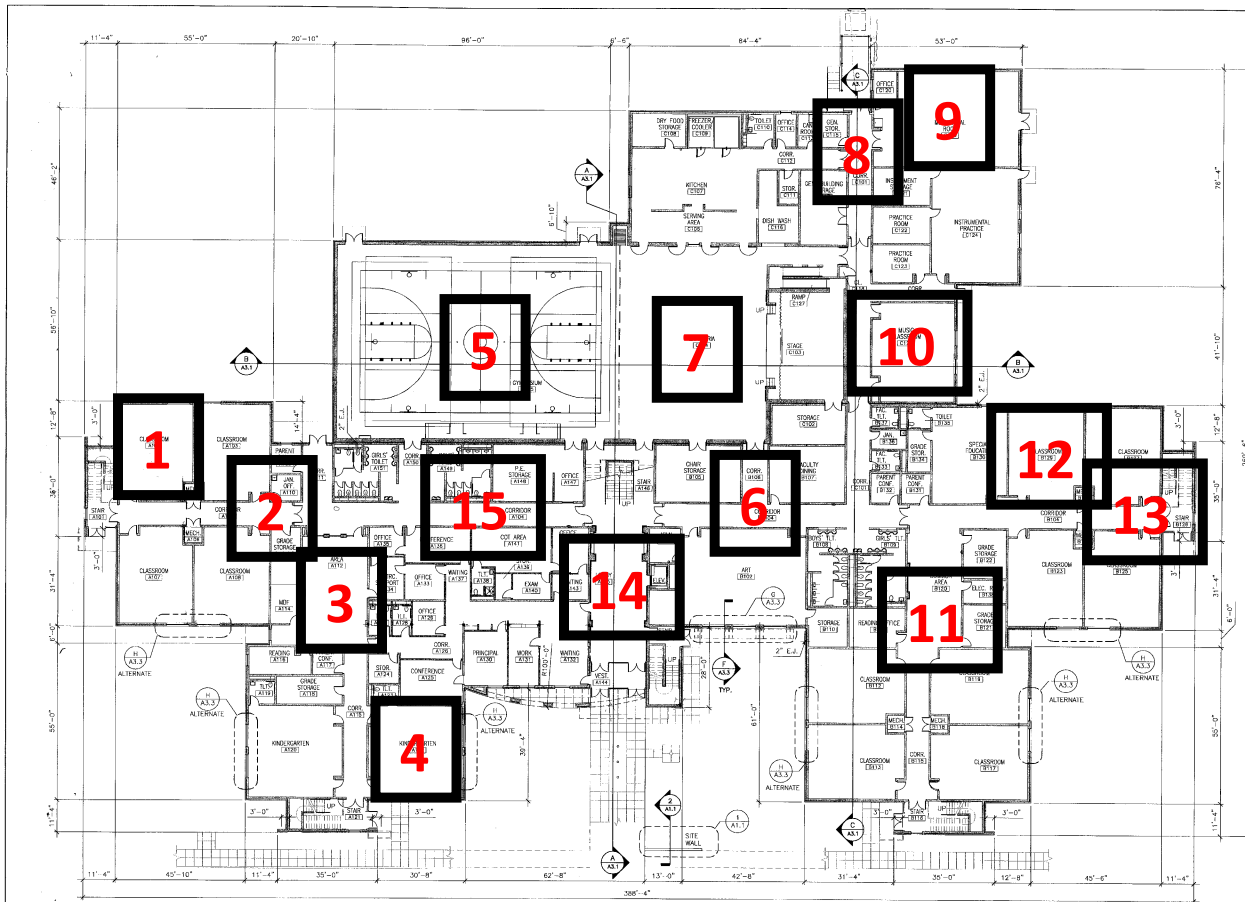
## Rohrerstown Elementary School Outdoor RF Emissions Testing Data

Index	Date and Time	E-Field % Controlled Standard	E-Field % Uncontrolled Standard
1	5/9/2019 9:07:02	0.01	0.05
2	5/9/2019 9:07:32	0.01	0.05
3	5/9/2019 9:08:35	0.02	0.10
4	5/9/2019 9:10:02	0.01	0.05
5	5/9/2019 9:10:51	0.02	0.10
6	5/9/2019 9:11:45	0.02	0.10
7	5/9/2019 9:12:47	0.01	0.05
8	5/9/2019 9:13:37	0.02	0.10
9	5/9/2019 9:14:35	0.02	0.10
10	5/9/2019 9:16:02	0.02	0.10
11	5/9/2019 9:17:06	0.01	0.05
12	5/9/2019 9:18:21	0.01	0.05
13	5/9/2019 9:19:18	0.02	0.10
14	5/9/2019 9:20:14	0.02	0.10
15	5/9/2019 9:21:59	0.01	0.05
16	5/9/2019 9:23:39	0.03	0.15

Index	Date and Time	E-Field % Controlled Standard	E-Field % Uncontrolled Standard
17	5/9/2019 9:25:01	0.03	0.15
18	5/9/2019 9:26:04	0.03	0.15
19	5/9/2019 9:26:47	0.04	0.20
20	5/9/2019 9:27:51	0.05	0.25
21	5/9/2019 9:28:55	0.09	0.45
22	5/9/2019 9:29:55	0.09	0.45
23	5/9/2019 9:30:38	0.10	0.50
24	5/9/2019 9:31:52	0.08	0.40
25	5/9/2019 10:01:57	0.07	0.35
26	5/9/2019 10:02:11	0.03	0.15
27	5/9/2019 10:03:00	0.02	0.10
28	5/9/2019 10:04:12	0.02	0.10
29	5/9/2019 10:05:15	0.03	0.15
30	5/9/2019 10:06:40	0.01	0.05
31	5/9/2019 10:08:09	0.01	0.05

Note: The EA5091 Electric Field Probe is calibrated to the FCC Occupational Standard. The unit conversion to the FCC General Public Standard is to multiply by 5. At multiple emitter sites, such as the Verizon Tower, the total detected field strength of each emitter (to its limit, at its frequency) is summed within the probe to display the result in “% of Std.”

# Rohrerstown Elementary School First Floor RF Emissions Testing Locations



SUN SCREEN ALT.  
NOT ACCEPTED  
AT 6.0 DATE

**KEY PLAN**

**REVISIONS**

NO.	DESCRIPTION OF CHANGE

**CRABTREE ROHRBAUGH & ASSOCIATES ARCHITECTS**  
 401 E. WINDING HILL ROAD • MECHANICSBURG PA 17055  
 717-458-0272 FAX 717-458-0047 www.cra-architects.com

ROHRERSTOWN ELEMENTARY SCHOOL  
 LANGCASTER, PA  
 HEMPFIELD SCHOOL DISTRICT

**CR**

OSGALL FREE FLOORPLAN  
 DATE: 1-10-19  
 NAME:  
 DRAWING NO.:  
 DATE:  
 FEBRUARY 08, 2022

PRC 1539  
**A1**

**OVERALL FIRST FLOOR PLAN**  
 SCALE: 1/8" = 1'-0"

**SCHOOL NAME ELEMENTARY SCHOOL**

NOTE: "SCHOOL NAME" TO BE REPLACED WITH ROHRERSTOWN AT ROHRERSTOWN SITE AND MOUNTVILLE AT MOUNTVILLE SITE

**SITE WALL ELEVATION**  
 SCALE: 1/8" = 1'-0"

**SITE WALL DETAIL**  
 SCALE: 1/8" = 1'-0"

1. Drawing A1.1.  
 1. Detail 2(A) 1: Bottom of footing shall be placed 3'-0" below grade. Provide 16"x24" footing, two #5 longitudinal bars w/ 3" concrete cover from bottom of footing, #4 transverse bars at 48" o/c.

**WALL TYPE LEGEND**

<p><b>WALL TYPE</b> ◊</p> <p>6" METAL STUDS                  5/8" C.M.B. - EACH SIDE                  SOUND BATT INSULATION</p>	<p><b>WALL TYPE</b> ◊</p> <p>6" METAL STUDS                  5/8" IMPACT RESISTANT G.W.B. - EACH SIDE                  SOUND BATT INSULATION</p>	<p><b>WALL TYPE</b> ◊</p> <p>6" METAL STUDS                  3/8" MOISTURE RESISTANT G.W.B. - ONE SIDE                  SOUND BATT INSULATION</p>	<p><b>WALL TYPE</b> ◊</p> <p>8" C.M.U.                  7/8" INT CHANNEL - EACH SIDE                  SOUND BATT INSULATION</p>	<p><b>WALL TYPE</b> ◊</p> <p>8" C.M.U.                  7/8" INT CHANNEL - ONE SIDE                  5/8" G.W.B. - ONE SIDE</p>	<p><b>WALL TYPE</b> ◊</p> <p>4" MASONRY VENEER                  6" C.M.U.                  4" MASONRY VENEER                  10" C.M.U.</p>	<p><b>WALL TYPE</b> ◊</p> <p>4" MASONRY VENEER                  4" MASONRY VENEER                  10" C.M.U.                  2" CAVITY                  4" MASONRY VENEER</p>	<p><b>WALL TYPE</b> ◊</p> <p>4" MASONRY VENEER                  4" MASONRY VENEER                  10" C.M.U.                  2" CAVITY                  4" MASONRY VENEER</p>
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**NOTES:**

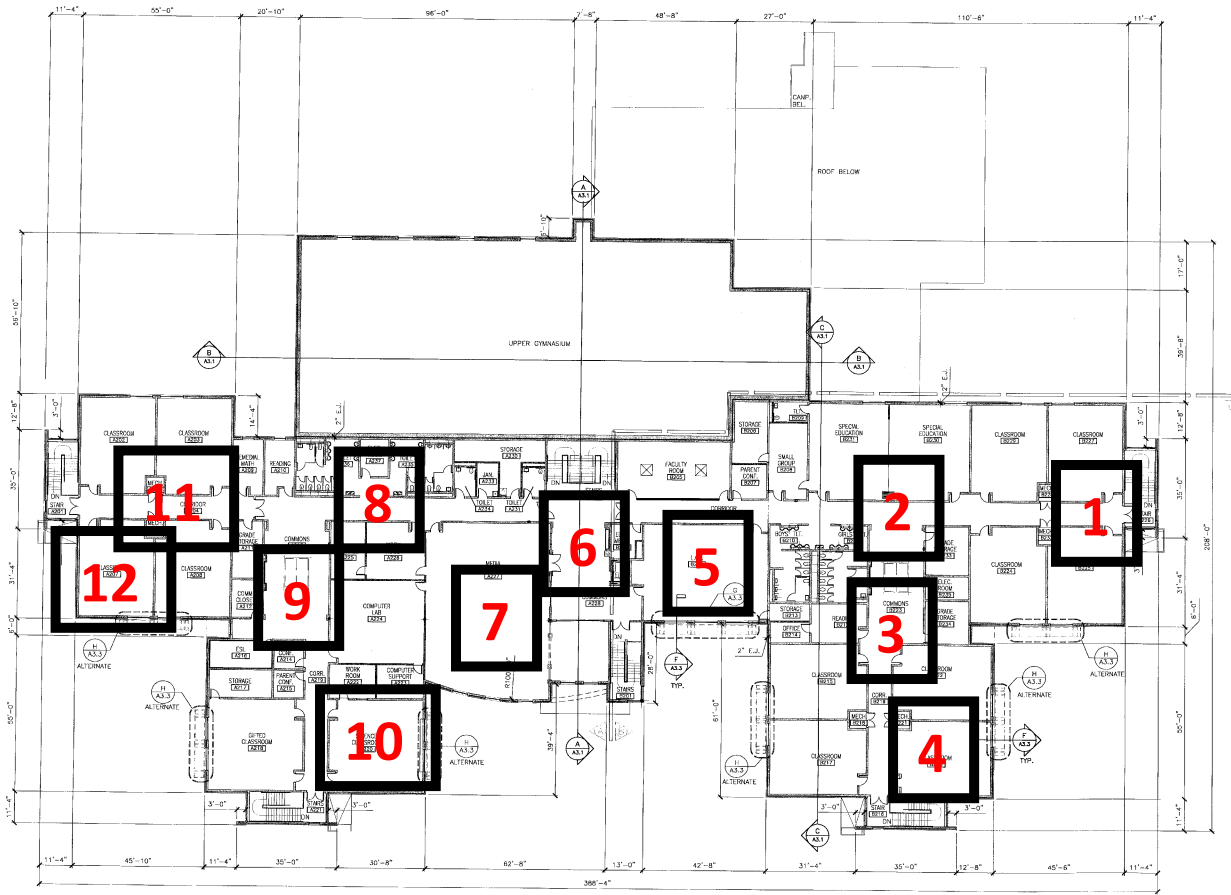
- ALL WALLS TO EXTEND TO UNKLOUSE OF DECK.
- ALL PENETRATIONS THROUGH FIRE-RATED WALLS AND FLOOR ASSEMBLIES INCLUDING, BUT NOT LIMITED TO, DRINK, DUCTWORK, GULLET DRAINS AND CONDENS. SHALL BE SEALED WITH APPROVED PRECAST SYSTEM. OPENINGS IN FIRE-RATED WALLS SHALL BE LIMITED TO MINIMUM SIZES TO ACCOMMODATE PENETRATIONS TO ENSURE MAXIMUM INTEGRITY OF THE WALL'S FIRE-RATING.
- REFER TO DRAWING A1.1 FOR LOCATION OF FIRE SEPARATION AND BATT ASSEMBLIES.

Rohrerstown Elementary School First Floor RF Emissions Testing Data

Index	Date and Time	E-Field % Controlled Standard	E-Field % Uncontrolled Standard
1	5/9/2019 8:14:11	0.03	0.15
2	5/9/2019 8:14:45	0.02	0.10
3	5/9/2019 8:15:24	0.01	0.05
4	5/9/2019 8:15:47	0.02	0.10
5	5/9/2019 8:16:19	0.01	0.05
6	5/9/2019 8:17:21	0.02	0.10
7	5/9/2019 8:18:07	0.01	0.05
8	5/9/2019 8:18:33	0.01	0.05
9	5/9/2019 8:19:32	0.01	0.05
10	5/9/2019 8:19:59	0.02	0.10
11	5/9/2019 8:21:54	0.02	0.10
12	5/9/2019 8:22:44	0.01	0.05
13	5/9/2019 8:23:48	0.01	0.05
14	5/9/2019 8:24:20	0.02	0.10
15	5/9/2019 8:25:26	0.02	0.10

Note: The EA5091 Electric Field Probe is calibrated to the FCC Occupational Standard. The unit conversion to the FCC General Public Standard is to multiply by 5. At multiple emitter sites, such as the Verizon Tower, the total detected field strength of each emitter (to its limit, at its frequency) is summed within the probe to display the result in “% of Std.”

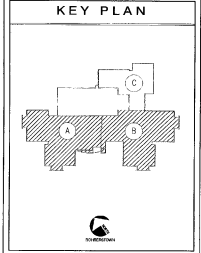
# Rohrerstown Elementary School Second Floor RF Emissions Testing Locations



**A** OVERALL SECOND FLOOR PLAN  
 SCALE: 1/8" = 1'-0"

See Screen  
 A1.1  
 NOT RECEIVED  
 AT BD DATE

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**REVISIONS**

NO.	DATE	DESCRIPTION OF CHANGE

**CRABTREE ROHRBAUGH & ASSOCIATES ARCHITECTS**  
 401 E. WINDING HILL ROAD • MECHANICSBURG, PA 17055  
 717-438-0272 FAX 717-438-0047 www.cra-architects.com

MOUNTVILLE ROHRERSTOWN  
 ELEMENTARY SCHOOL ELEMENTARY SCHOOL  
 MOUNTVILLE, PA LANCASTER, PA  
 HEMPFIELD SCHOOL DISTRICT



OVERALL SECOND FLOOR PLAN  
 SHEET NO. 1539 & 1540  
 DATE: 11/15/18  
 DRAWN BY: JCS  
 CHECKED BY: JCS  
 PROJECT: A1.2

Rohrerstown Elementary School Second Floor RF Emissions Testing Data

Index	Date and Time	E-Field % Controlled Standard	E-Field % Uncontrolled Standard
1	5/9/2019 8:27:05	0.29	1.45
2	5/9/2019 8:27:50	0.30	1.50
3	5/9/2019 8:28:21	0.22	1.10
4	5/9/2019 8:28:48	0.09	0.45
5	5/9/2019 8:29:32	0.08	0.40
6	5/9/2019 8:30:44	0.13	0.65
7	5/9/2019 8:31:30	0.16	0.80
8	5/9/2019 8:32:07	0.06	0.30
9	5/9/2019 8:32:42	0.05	0.25
10	5/9/2019 8:33:07	0.06	0.30
11	5/9/2019 8:33:40	0.10	0.50
12	5/9/2019 8:34:37	0.10	0.50

Note: The EA5091 Electric Field Probe is calibrated to the FCC Occupational Standard. The unit conversion to the FCC General Public Standard is to multiply by 5. At multiple emitter sites, such as the Verizon Tower, the total detected field strength of each emitter (to its limit, at its frequency) is summed within the probe to display the result in “% of Std.”



Rohrerstown Elementary School Rooftop RF Emissions Testing Locations



Rohrerstown Elementary School Indoor RF Emissions Testing Data

Index	Date and Time	E-Field % Controlled Standard	E-Field % Uncontrolled Standard
1	5/9/2019 8:40:06	0.04	0.20
2	5/9/2019 8:40:36	0.01	0.05
3	5/9/2019 8:41:05	0.02	0.10
4	5/9/2019 8:41:31	0.01	0.05
5	5/9/2019 8:41:57	0.02	0.10
6	5/9/2019 8:43:08	0.01	0.05
7	5/9/2019 8:43:49	0.01	0.05
8	5/9/2019 8:44:17	0.06	0.30
9	5/9/2019 8:44:54	0.04	0.20
10	5/9/2019 8:45:35	0.05	0.25
11	5/9/2019 8:46:03	0.19	0.95
12	5/9/2019 8:47:58	0.15	0.75
13	5/9/2019 8:49:28	0.21	1.05
14	5/9/2019 8:49:58	0.20	1.00
15	5/9/2019 8:50:58	0.21	1.05

Note: The EA5091 Electric Field Probe is calibrated to the FCC Occupational Standard. The unit conversion to the FCC General Public Standard is to multiply by 5. At multiple emitter sites, such as the Verizon Tower, the total detected field strength of each emitter (to its limit, at its frequency) is summed within the probe to display the result in “% of Std.”