



Engineering and Testing for EMC and Safety Compliance

## **Test Configuration Photograph Report**

**VEGA Grieshaber KG**

**Models: VEGAPULS 67  
VEGAPULS 68**

**FCC ID: O6QPS60XS1**

**Report No: 2009282-6768TP**

**August 12, 2010**

## Table of Contents

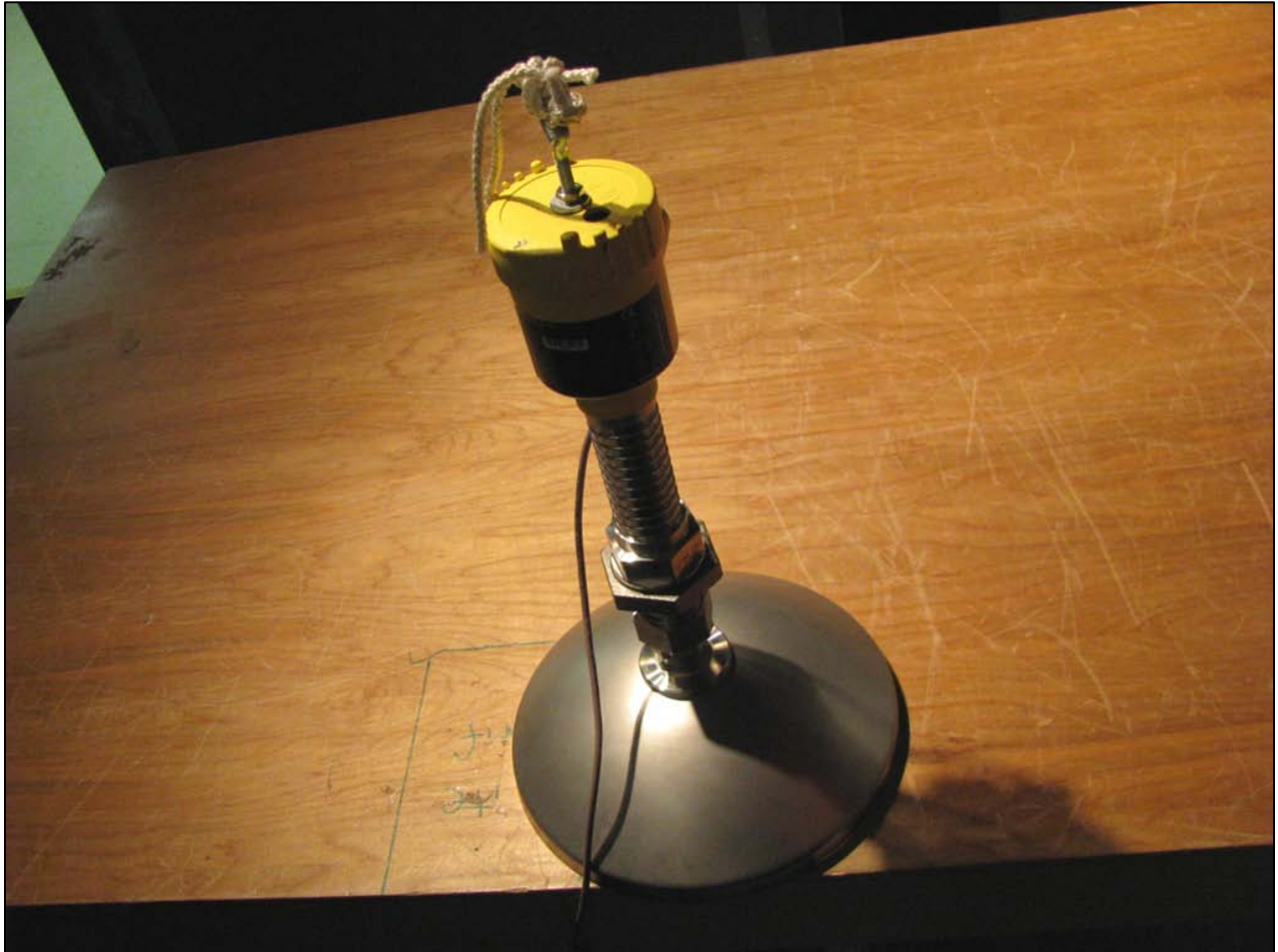
1	Conducted Emissions	4
Photograph 1:	Conducted Emissions EUT View A	4
Photograph 2:	Conducted Emissions EUT View B	5
2	Radiated Emissions	6
2.1	Radiated Emissions EUT in Metal Tank	6
Photograph 3:	245mm Horn Antenna Front View Metal Tank	6
Photograph 4:	245mm Horn Antenna Rear View Metal Tank	7
Photograph 5:	95mm Horn Antenna Front View Metal Tank	8
Photograph 6:	95mm Horn Antenna Rear View Metal Tank	9
Photograph 7:	40mm Horn Antenna Front View Metal Tank	10
Photograph 8:	40mm Horn Antenna Rear View Metal Tank	11
Photograph 9:	75mm Metal Antenna Front View Metal Tank	12
Photograph 10:	75mm Metal Antenna Rear View Metal Tank	13
Photograph 11:	48-mm Metal Antenna Front View Metal Tank	14
Photograph 12:	48-mm Metal Antenna Rear View Metal Tank	15
Photograph 13:	80mm Plastic Horn Antenna Front View Metal Tank	16
Photograph 14:	80mm Plastic Horn Antenna Rear View Metal Tank	17
Photograph 15:	½" Stub Antenna Front View Metal Tank	18
Photograph 16:	½" Stub Antenna Rear View Metal Tank	19
Photograph 17:	½" Standpipe Antenna Front View Metal Tank	20
Photograph 18:	½" Standpipe Antenna Front View Metal Tank	21
2.2	Radiated Emissions EUT in Concrete Tank	22
Photograph 19:	245mm Antenna Front View Concrete Tank	22
Photograph 20:	245mm Antenna Rear View Concrete Tank	23
Photograph 21:	95mm Antenna Front View Concrete Tank	24
Photograph 22:	95mm Antenna Rear View Concrete Tank	25
Photograph 23:	40mm Antenna Front View Concrete Tank	26
Photograph 24:	40mm Antenna Rear View Concrete Tank	27
Photograph 25:	75mm Metal Antenna Front View Concrete Tank	28
Photograph 26:	75mm Metal Antenna Rear View Concrete Tank	29
Photograph 27:	48mm Metal Antenna Front View Concrete Tank	30
Photograph 28:	48mm Metal Antenna Rear View Concrete Tank	31
Photograph 29:	80mm Plastic Antenna Front View Concrete Tank	32
Photograph 30:	80mm Plastic Antenna Rear View Concrete Tank	33
Photograph 31:	½" Stub Antenna Front View Concrete Tank	34

Photograph 32:	½" Stub Antenna Rear View Concrete Tank	35
Photograph 33:	½" Standpipe Antenna Front View Concrete Tank	36
Photograph 34:	½" Standpipe Antenna Rear View Concrete Tank	37
2.3	Radiated Emissions EUT in Reinforced Fiberglass Tank	38
Photograph 35:	245mm Antenna Front View Fiberglass Tank	38
Photograph 36:	245mm Antenna Rear View Fiberglass Tank	39
Photograph 37:	95mm Antenna Front View Fiberglass Tank	40
Photograph 38:	95mm Antenna Rear View Fiberglass Tank	41
Photograph 39:	40mm Antenna Front View Fiberglass Tank	42
Photograph 40:	40mm Antenna Rear View Fiberglass Tank	43
Photograph 41:	75mm Metal Antenna Front View Fiberglass Tank	44
Photograph 42:	75mm Metal Antenna Rear View Fiberglass Tank	45
Photograph 43:	48mm Metal Antenna Front View Fiberglass Tank	46
Photograph 44:	48mm Metal Antenna Rear View Fiberglass Tank	47
Photograph 45:	80mm Plastic Antenna Front View Fiberglass Tank	48
Photograph 46:	80mm Plastic Antenna Rear View Fiberglass Tank	49
Photograph 47:	½" Stub Antenna Front View Fiberglass Tank	50
Photograph 48:	½" Stub Antenna Rear View Fiberglass Tank	51
Photograph 49:	½" Standpipe Antenna Front View Fiberglass Tank	52
Photograph 50:	½" Standpipe Antenna Rear View Fiberglass Tank	53

## 1 Conducted Emissions



**Photograph 1:**                      **Conducted Emissions EUT View A**



**Photograph 2:**

**Conducted Emissions EUT View B**

## 2 Radiated Emissions

### 2.1 Radiated Emissions EUT in Metal Tank



Photograph 3: 245mm Horn Antenna Front View Metal Tank



**Photograph 4: 245mm Horn Antenna Rear View Metal Tank**

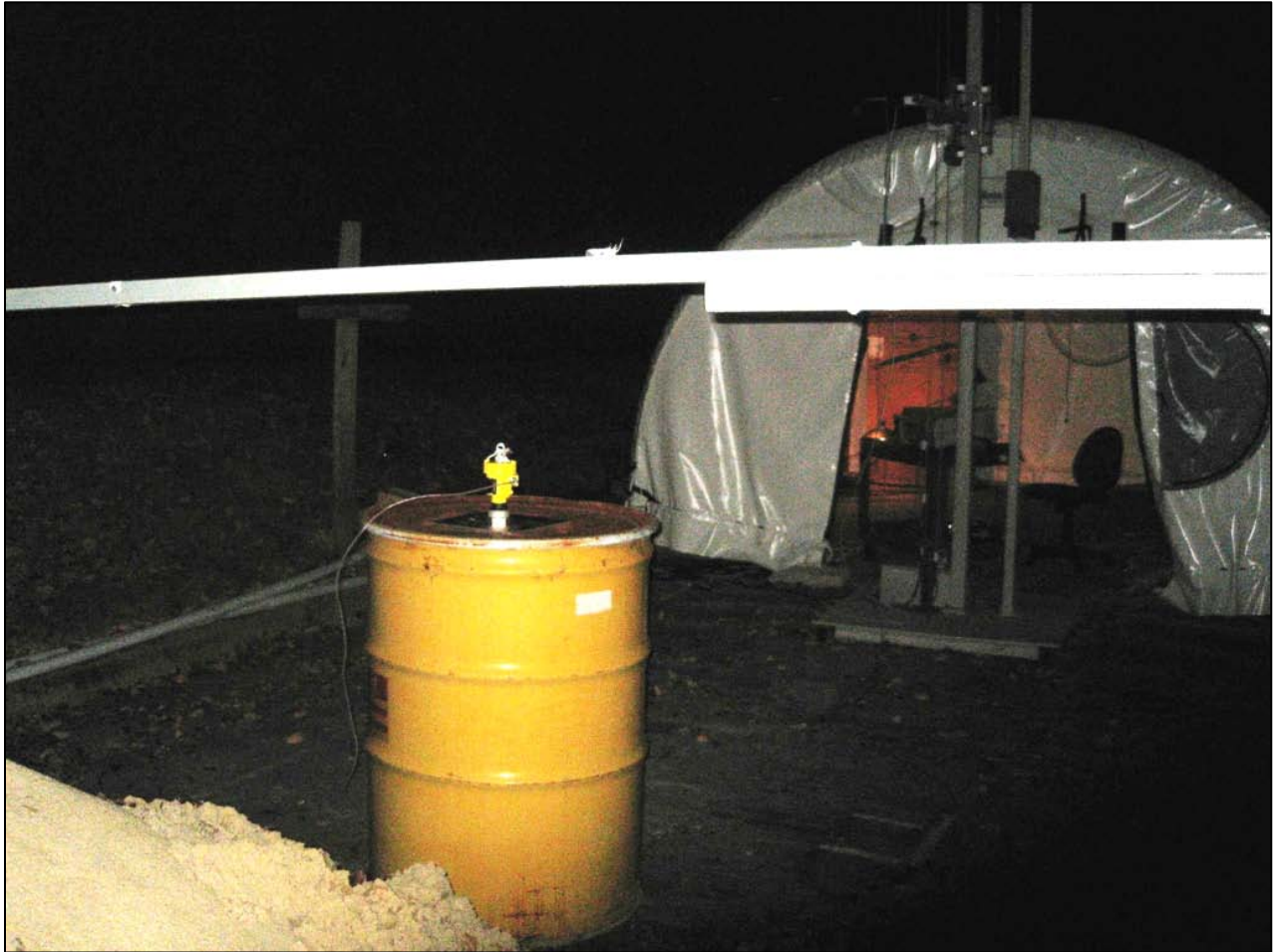


**Photograph 5: 95mm Horn Antenna Front View Metal Tank**





**Photograph 6: 95mm Horn Antenna Rear View Metal Tank**



**Photograph 7: 40mm Horn Antenna Front View Metal Tank**



**Photograph 8: 40mm Horn Antenna Rear View Metal Tank**



**Photograph 9: 75mm Metal Antenna Front View Metal Tank**



**Photograph 10: 75mm Metal Antenna Rear View Metal Tank**



**Photograph 11: 48-mm Metal Antenna Front View Metal Tank**



**Photograph 12: 48-mm Metal Antenna Rear View Metal Tank**



**Photograph 13: 80mm Plastic Horn Antenna Front View Metal Tank**





**Photograph 14: 80mm Plastic Horn Antenna Rear View Metal Tank**



**Photograph 15:**      **1/2" Stub Antenna Front View Metal Tank**



**Photograph 16:**      **1/2" Stub Antenna Rear View Metal Tank**



**Photograph 17:      1/2" Standpipe Antenna Front View Metal Tank**



**Photograph 18:**      **1/2" Standpipe Antenna Front View Metal Tank**

## 2.2 Radiated Emissions EUT in Concrete Tank



**Photograph 19: 245mm Antenna Front View Concrete Tank**

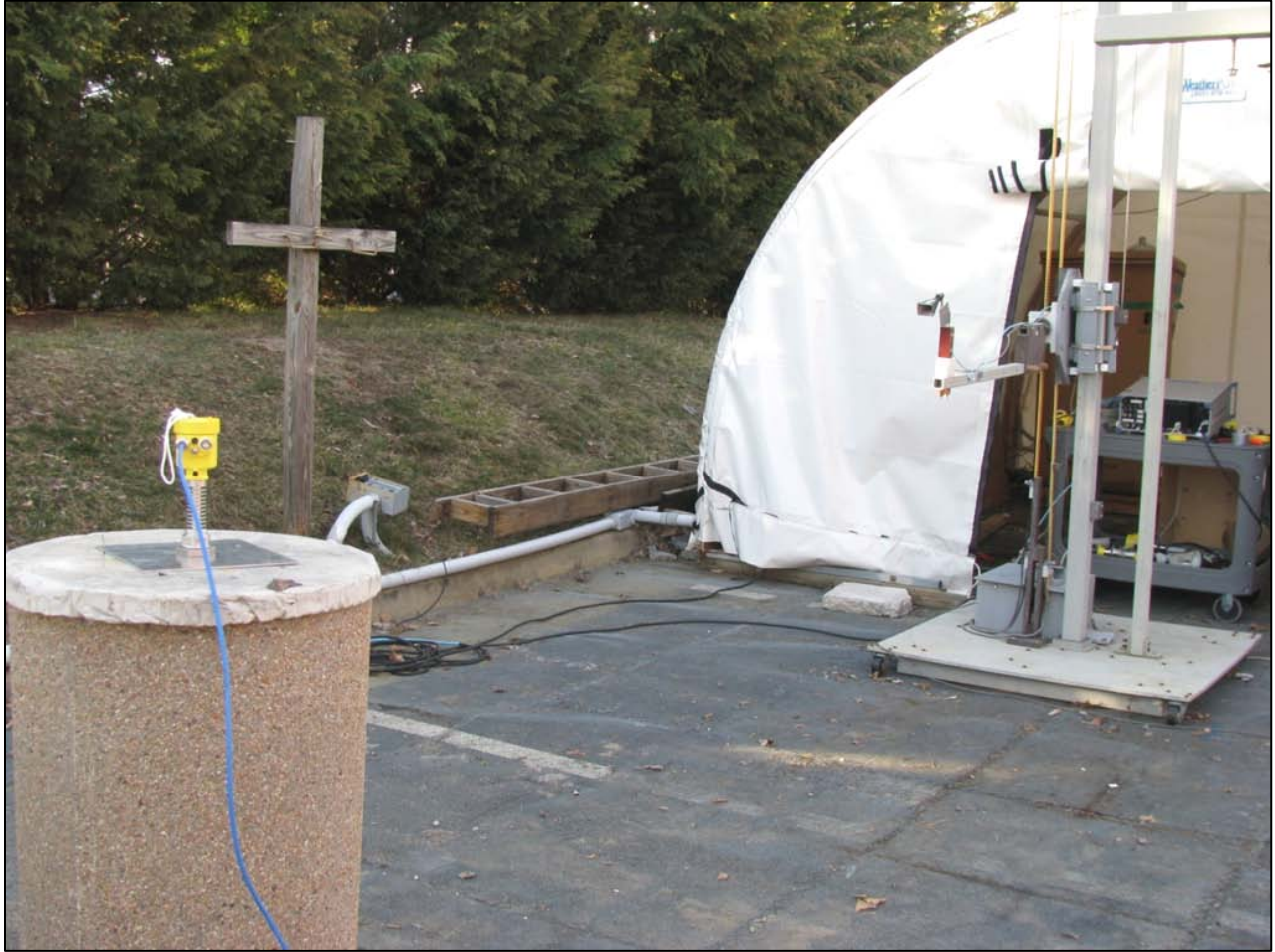


**Photograph 20: 245mm Antenna Rear View Concrete Tank**



**Photograph 21: 95mm Antenna Front View Concrete Tank**





**Photograph 22: 95mm Antenna Rear View Concrete Tank**



**Photograph 23: 40mm Antenna Front View Concrete Tank**



**Photograph 24:**      **40mm Antenna Rear View Concrete Tank**



**Photograph 25: 75mm Metal Antenna Front View Concrete Tank**



**Photograph 26: 75mm Metal Antenna Rear View Concrete Tank**



**Photograph 27: 48mm Metal Antenna Front View Concrete Tank**



**Photograph 28: 48mm Metal Antenna Rear View Concrete Tank**



**Photograph 29: 80mm Plastic Antenna Front View Concrete Tank**





**Photograph 30: 80mm Plastic Antenna Rear View Concrete Tank**



**Photograph 31:      1/2" Stub Antenna Front View Concrete Tank**



**Photograph 32:      1/2" Stub Antenna Rear View Concrete Tank**



**Photograph 33:      1/2" Standpipe Antenna Front View Concrete Tank**



**Photograph 34:**      **1/2" Standpipe Antenna Rear View Concrete Tank**

### 2.3 Radiated Emissions EUT in Reinforced Fiberglass Tank



**Photograph 35: 245mm Antenna Front View Fiberglass Tank**



**Photograph 36: 245mm Antenna Rear View Fiberglass Tank**



**Photograph 37: 95mm Antenna Front View Fiberglass Tank**





**Photograph 38: 95mm Antenna Rear View Fiberglass Tank**



**Photograph 39: 40mm Antenna Front View Fiberglass Tank**



**Photograph 40: 40mm Antenna Rear View Fiberglass Tank**



**Photograph 41: 75mm Metal Antenna Front View Fiberglass Tank**



**Photograph 42: 75mm Metal Antenna Rear View Fiberglass Tank**



**Photograph 43: 48mm Metal Antenna Front View Fiberglass Tank**



**Photograph 44: 48mm Metal Antenna Rear View Fiberglass Tank**



**Photograph 45: 80mm Plastic Antenna Front View Fiberglass Tank**





**Photograph 46: 80mm Plastic Antenna Rear View Fiberglass Tank**



**Photograph 47:        1/2" Stub Antenna Front View Fiberglass Tank**



**Photograph 48:**      **1/2" Stub Antenna Rear View Fiberglass Tank**



**Photograph 49:      ½” Standpipe Antenna Front View Fiberglass Tank**



**Photograph 50:**      **1/2" Standpipe Antenna Rear View Fiberglass Tank**