

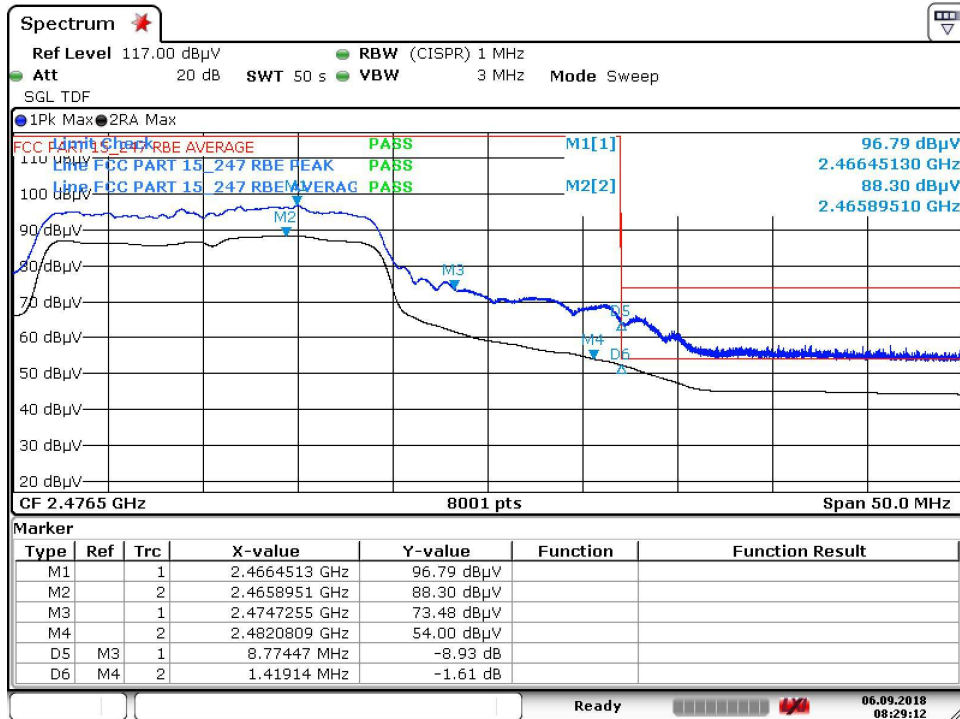


1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Radiated Emissions (Bandedge)

DNB Job Number:	86019	Date:	6 Sep 2017	Specification [X] 15.247 (c) [X] ANSI C63.10-2013
Customer:	Orbit Irrigation Products Inc.			
Model Number:	WT25			
Description:	WiFi Transmitter 802.11n20			

Radiated Corrected Band Edge - Upper Edge										
FREQ (Mhz)	Meter	Correction Factors (dB)			dBuV/m			Type		Polarity
		Ant	Cbl	Amp	Corr	Lim	Delta	Lim	Rdng	
2483.5	43.49	30.1	5.1	26.3	52.39	54.0	-1.61	Ave	Ave	Ver
2483.5	56.17	30.1	5.1	26.3	65.07	74.0	-8.93	Peak	Peak	Ver



Date: 6.SEP.2018 08:29:12



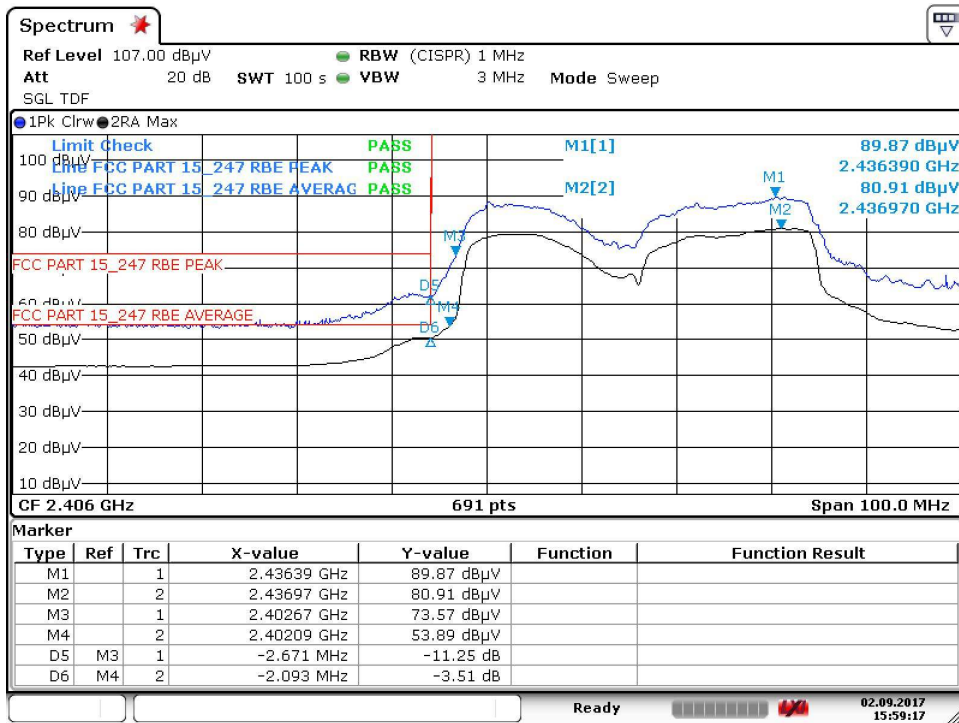
1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Radiated Emissions (Bandedge)

DNB Job Number:	86019	Date:	2 Sep 2017	Specification [X] 15.247 (c) [X] ANSI C63.10-2013
Customer:	Orbit Irrigation Products Inc.			
Model Number:	WT25			
Description:	WiFi Transmitter 802.11n40			

Radiated Corrected Band Edge - Lower Edge

FREQ (Mhz)	Meter	Correction Factors (dB)			dBuV/m			Type		Polarity
		Ant	Cbl	Amp	Corr	Lim	Delta	Lim	Rdng	
2400.0	41.99	29.8	5.0	26.3	50.49	54.0	-3.51	Ave	Ave	Hor
2400.0	54.25	29.8	5.0	26.3	62.75	74.0	-11.25	Peak	Peak	Hor



Date: 2.SEP.2017 15:59:17



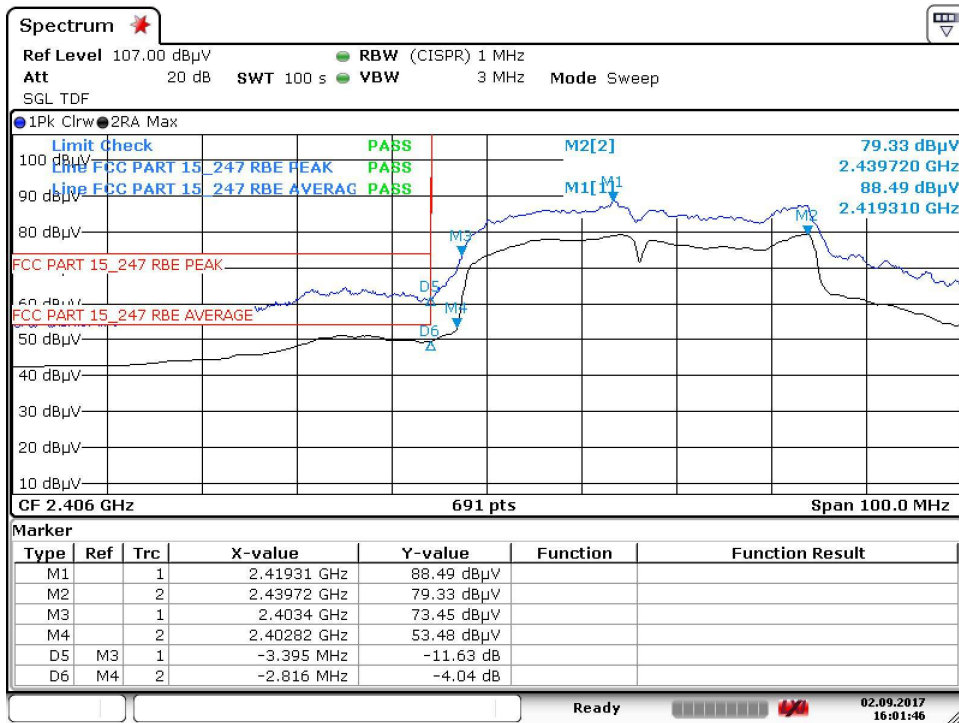
1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Radiated Emissions (Bandedge)

DNB Job Number:	86019	Date:	2 Sep 2017	Specification [X] 15.247 (c) [X] ANSI C63.10-2013
Customer:	Orbit Irrigation Products Inc.			
Model Number:	WT25			
Description:	WiFi Transmitter 802.11n40			

Radiated Corrected Band Edge - Lower Edge

FREQ (Mhz)	Meter	Correction Factors (dB)			dBuV/m			Type		Polarity
		Ant	Cbl	Amp	Corr	Lim	Delta	Lim	Rdng	
2400.0	41.46	29.8	5.0	26.3	49.96	54.0	-4.04	Ave	Ave	Ver
2400.0	53.87	29.8	5.0	26.3	62.37	74.0	-11.63	Peak	Peak	Ver



Date: 2.SEP.2017 16:01:46



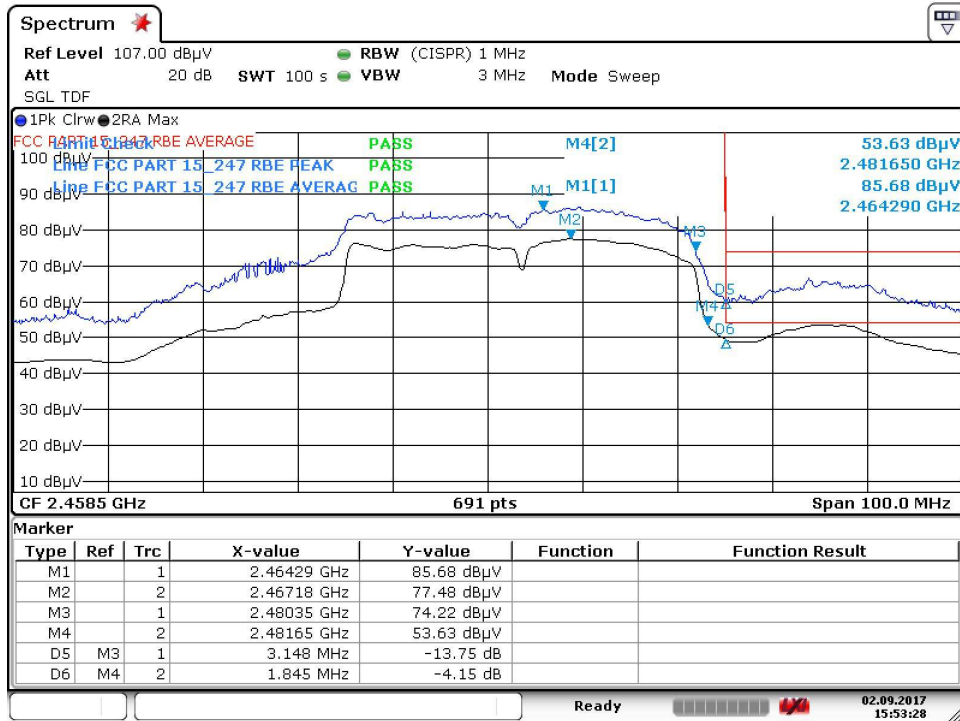
1100 E Chalk Creek Road
 Coalville, UT 84017
 (435) 336-4433
 FAX (435) 336-4436

Radiated Emissions (Bandedge)

DNB Job Number:	86019	Date:	2 Sep 2017	Specification [X] 15.247 (c) [X] ANSI C63.10-2013
Customer:	Orbit Irrigation Products Inc.			
Model Number:	WT25			
Description:	WiFi Transmitter 802.11n20			

Radiated Corrected Band Edge - Upper Edge

FREQ (Mhz)	Meter	Correction Factors (dB)			dBuV/m			Type		Polarity
		Ant	Cbl	Amp	Corr	Lim	Delta	Lim	Rdng	
2483.5	40.95	30.1	5.1	26.3	49.85	54.0	-4.15	Ave	Ave	Hor
2483.5	51.35	30.1	5.1	26.3	60.25	74.0	-13.75	Peak	Peak	Hor



Date: 2.SEP.2017 15:53:28

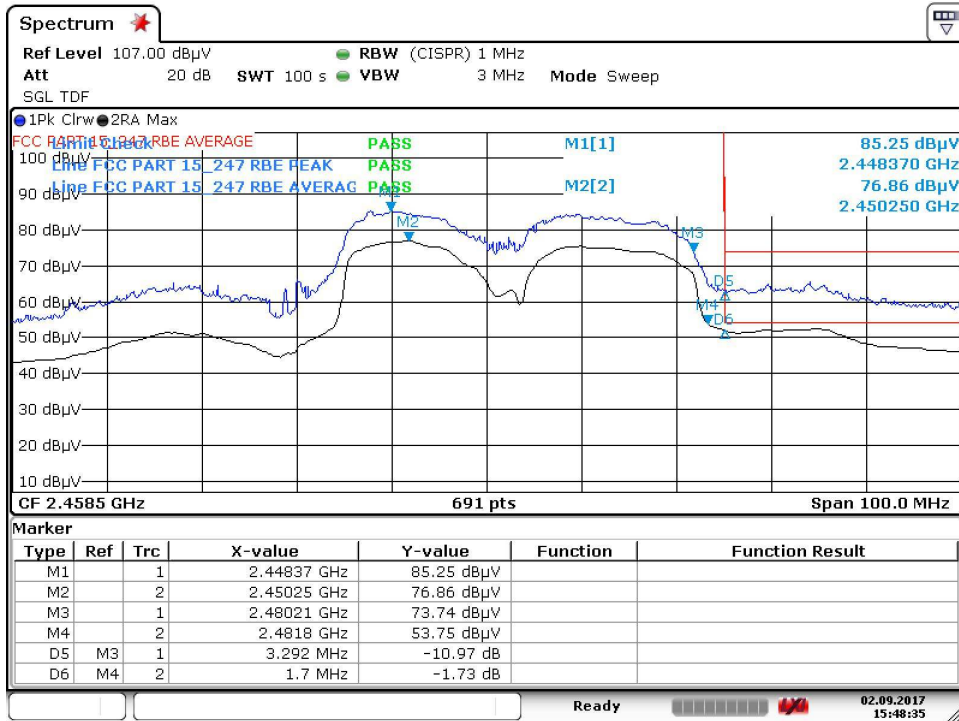


1100 E Chalk Creek Road
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 (435) 336-4433
 FAX (435) 336-4436

Radiated Emissions (Bandedge)

DNB Job Number:	86019	Date:	2 Sep 2017	Specification [X] 15.247 (c) [X] ANSI C63.10-2013
Customer:	Orbit Irrigation Products Inc.			
Model Number:	WT25			
Description:	WiFi Transmitter 802.11n40			

Radiated Corrected Band Edge - Upper Edge										
FREQ (Mhz)	Meter	Correction Factors (dB)			dBuV/m			Type		Polarity
		Ant	Cbl	Amp	Corr	Lim	Delta	Lim	Rdng	
2483.5	43.37	30.1	5.1	26.3	52.27	54.0	-1.73	Ave	Ave	Ver
2483.5	54.13	30.1	5.1	26.3	63.03	74.0	-10.97	Peak	Peak	Ver



Date: 2.SEP.2017 15:48:35

15.247 (a,2) 6 dB Bandwidth

Test Procedure: ANSI C63.10-2013

6 dB Bandwidth

Use the following spectrum analyzer settings:

Span = approximately 2 to 3 times the 6 dB bandwidth, centered on a hopping channel

RBW 1% of the 6 dB bandwidth

VBW RBW

Sweep = auto

Detector function = peak

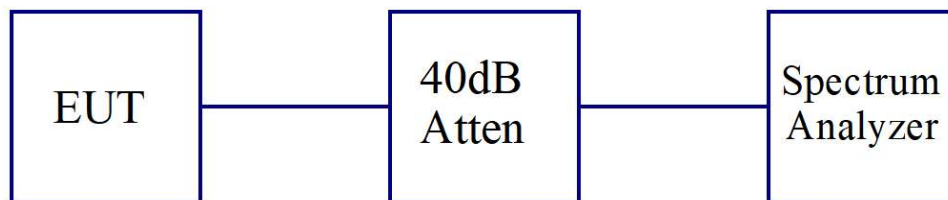
Trace = max hold


The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 6 dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 6 dB bandwidth of the emission. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subparagraphs of this Section. Submit this plot(s).

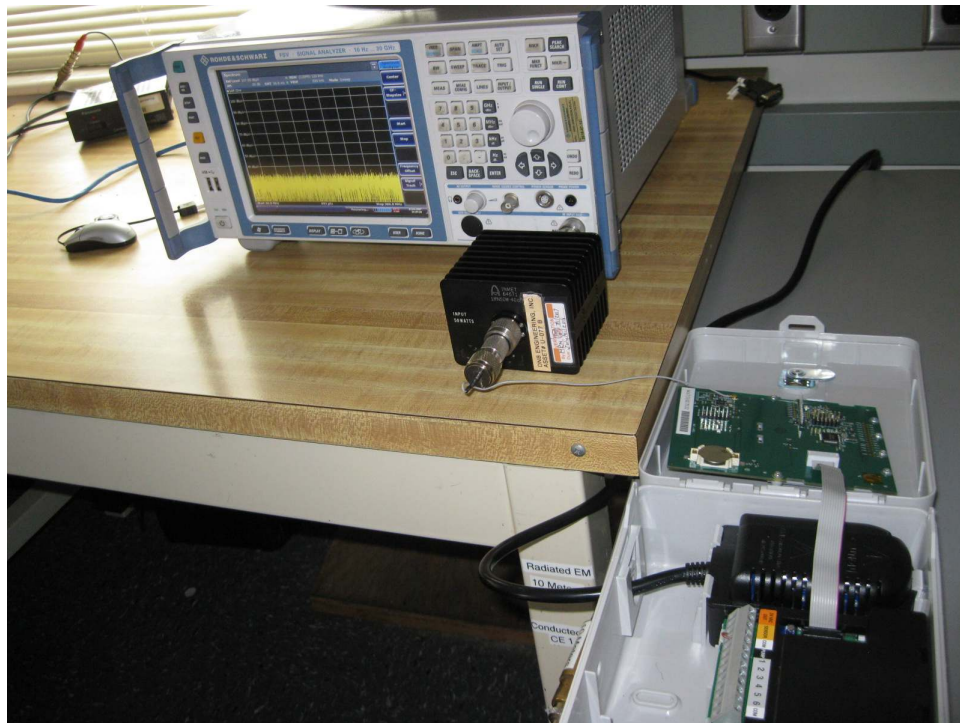
EUT operating conditions:


The software provided by the client to enable the EUT to transmit continuously.

Test Set Up: (Note following set up was used for all antenna conducted measurements)



	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		Measurement Test Set Up	
DNB Job Number:	86019	Date:	16 Aug 2017	Conformance Standard FCC Part 15 Clause 15.247
Customer:	Orbit Irrigation Products Inc.			
Model Number:	WT25			
Description:	WiFi Transmitter			Clause 15.247
Antenna Conducted Measurement Set Up				




	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
DNB Job Number:	86019	Date:	16 Aug 2017	Conformance Standard FCC Part 15
Customer:	Orbit Irrigation Products Inc.			
Model Number:	WT25			
Description:	WiFi Transmitter			Clause 15.247(a,2)
	Test Procedure			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
21 °C		25 %		101.2 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>				

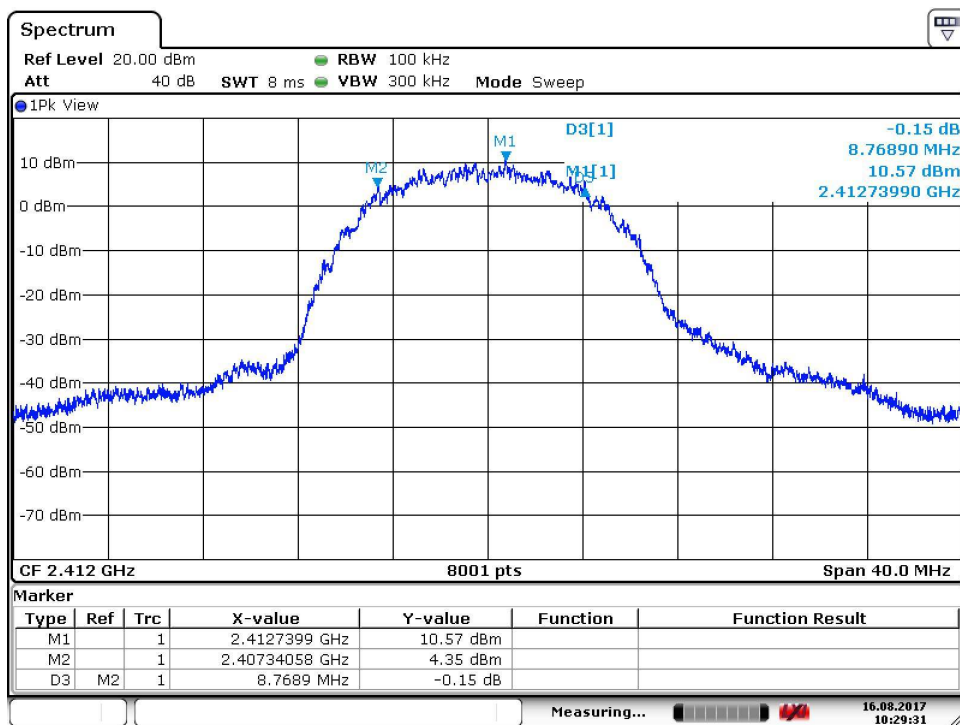
6 dB Bandwidth

ANSI C63.10-2013 Clause 11.8.1


The steps are as follows:

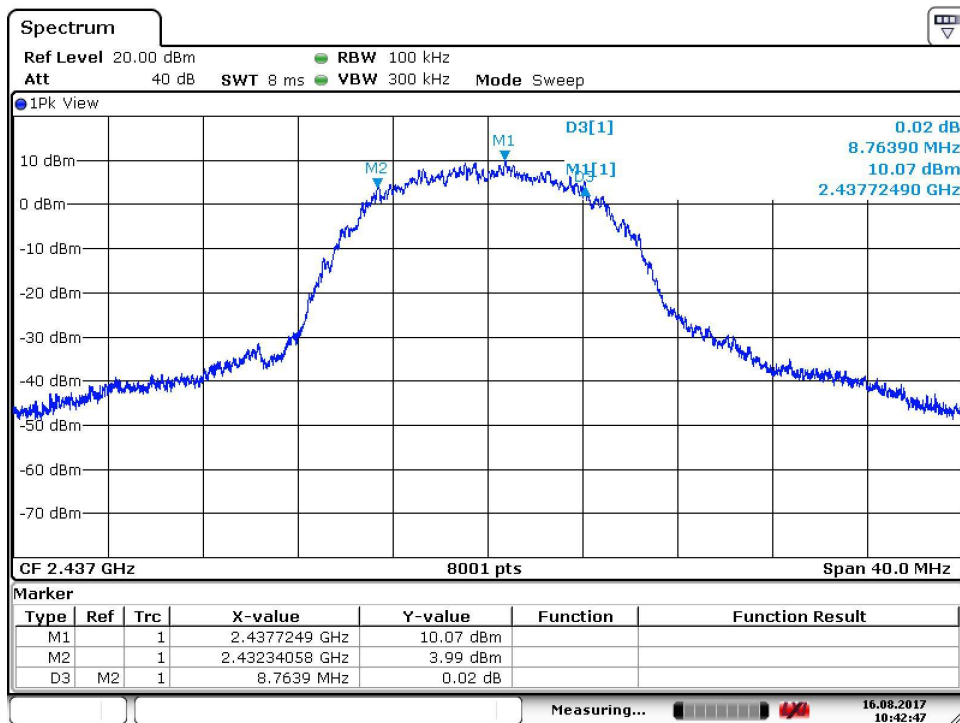
- a) Set RBW = 100 kHz
- b) Set the VBW \geq [3 x RBW]
* per ANSI C63.10-2013 clause 6.9.2 Set the span to 2 to 5 times the OBW
- c) Detector = peak
- d) Trace mode = max hold
- e) Sweep = auto couple
- f) Allow trace to stabilize
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6dB relative to the maximum level measured in the fundamental emission.
- h) Submit this plot(s).

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
	DNB Job Number:	86019	Date:	16 Aug 2017
Customer:	Orbit Irrigation Products Inc.			Conformance Standard
Model Number:	WT25			FCC Part 15
Description:	WiFi Transmitter			Clause 15.247(a,2)
	802.11b			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>				
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail
Low	2412	8768.900	> 500 kHz	Pass




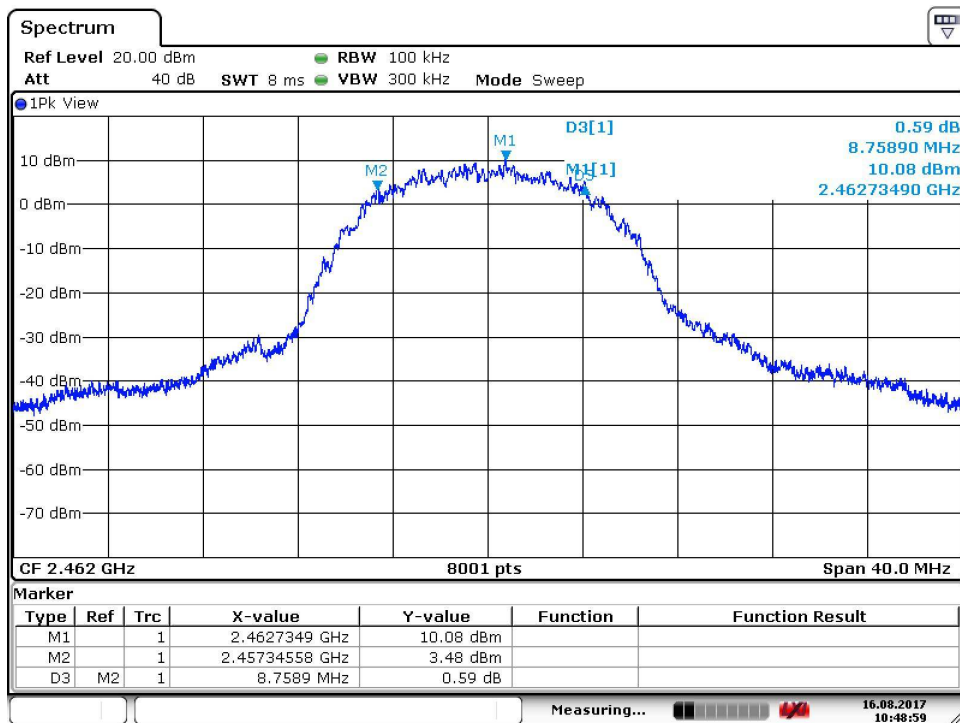
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	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
DNB Job Number:	86019	Date:	16 Aug 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	WT25			
Description:	WiFi Transmitter 802.11b			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>				
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail
Middle	2437	8763.900	> 500 kHz	Pass




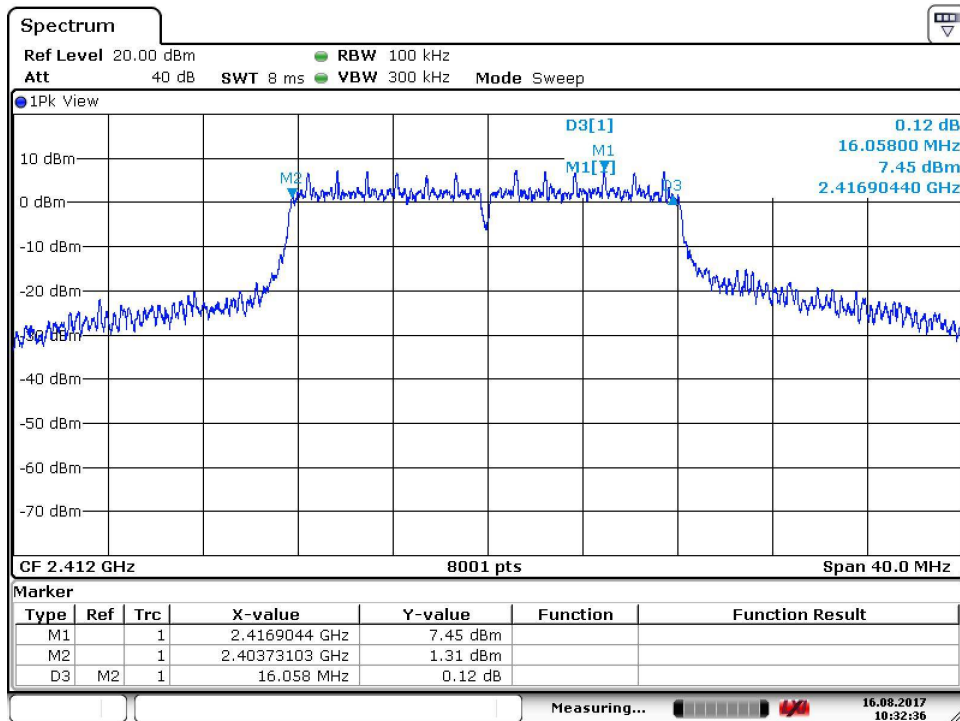
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	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
DNB Job Number:	86019	Date:	16 Aug 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2)
Customer:	Orbit Irrigation Products Inc.			
Model Number:	WT25			
Description:	WiFi Transmitter 802.11b			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>				
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail
High	2462	8758.900	> 500 kHz	Pass




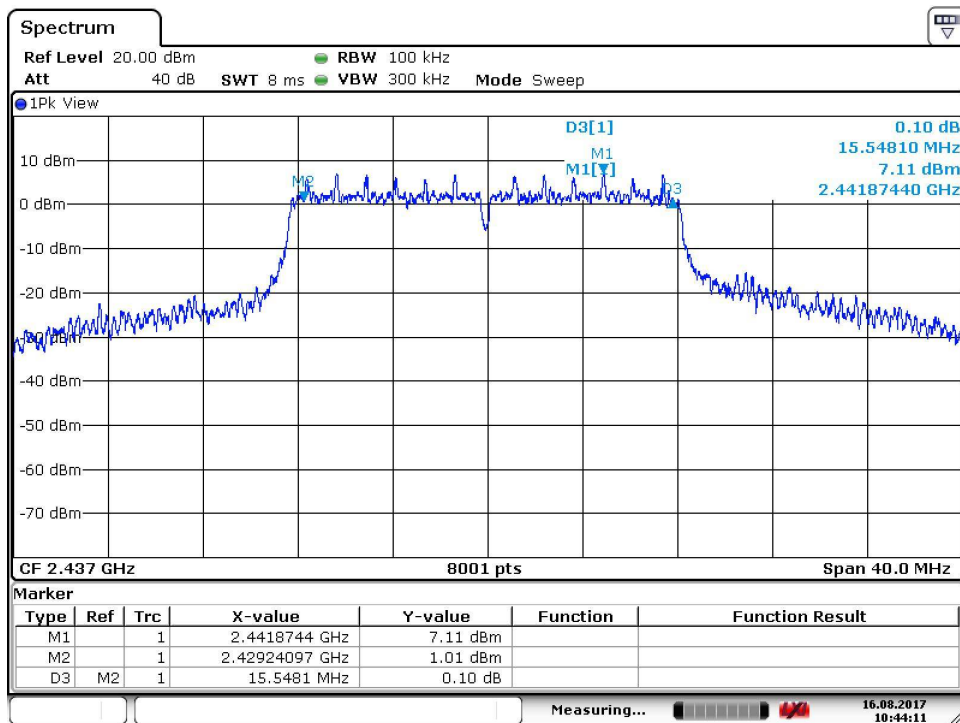
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	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
	DNB Job Number:	86019	Date:	16 Aug 2017
Customer:	Orbit Irrigation Products Inc.			Conformance Standard
Model Number:	WT25			FCC Part 15
Description:	WiFi Transmitter			Clause 15.247(a,2)
	802.11g			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>				
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail
Low	2412	16058.000	> 500 kHz	Pass




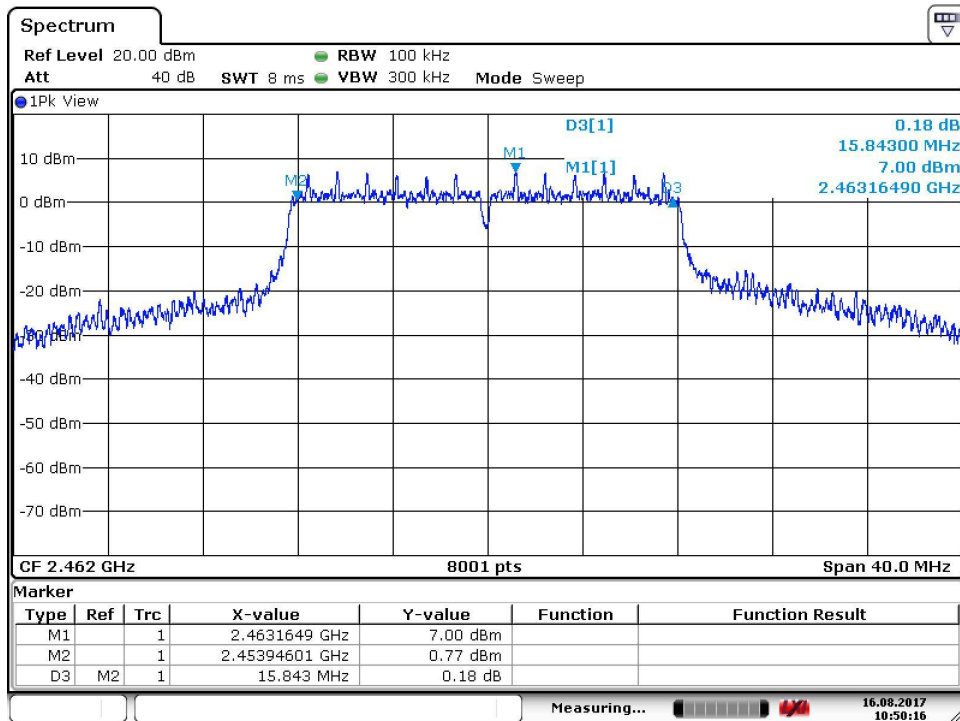
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	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
	DNB Job Number:	86019	Date:	16 Aug 2017
Customer:	Orbit Irrigation Products Inc.			Conformance Standard
Model Number:	WT25			FCC Part 15
Description:	WiFi Transmitter			Clause 15.247(a,2)
	802.11g			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>				
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail
Middle	2437	15548.100	> 500 kHz	Pass




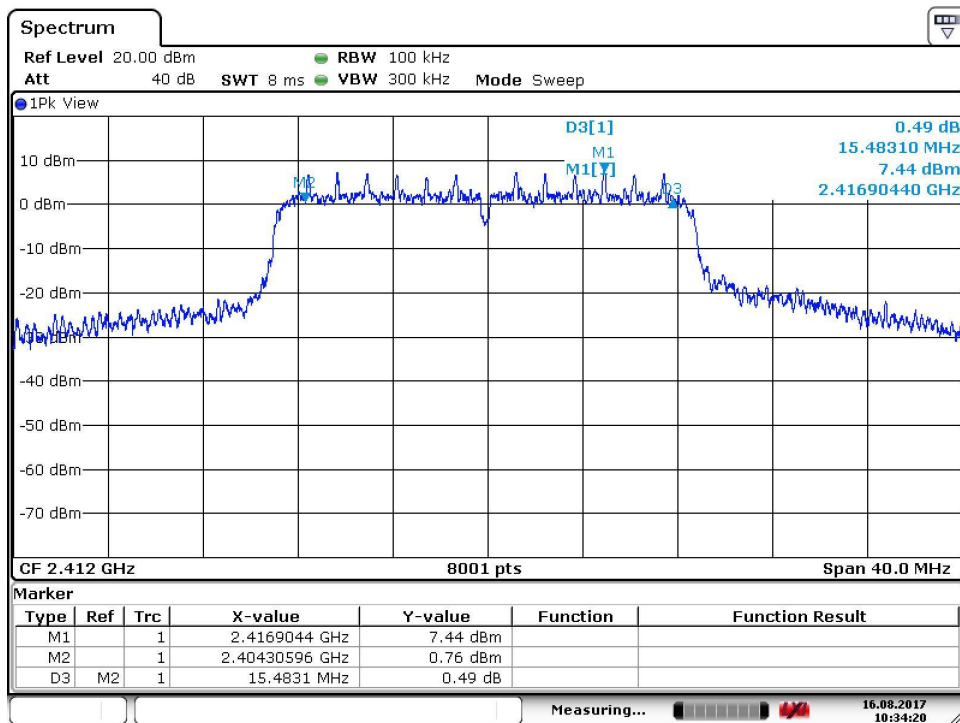
Date: 16.AUG.2017 10:44:11

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
	DNB Job Number:	86019	Date:	16 Aug 2017
Customer:	Orbit Irrigation Products Inc.			Conformance Standard
Model Number:	WT25			FCC Part 15
Description:	WiFi Transmitter			Clause 15.247(a,2)
	802.11g			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>				
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail
High	2462	15843.000	> 500 kHz	Pass




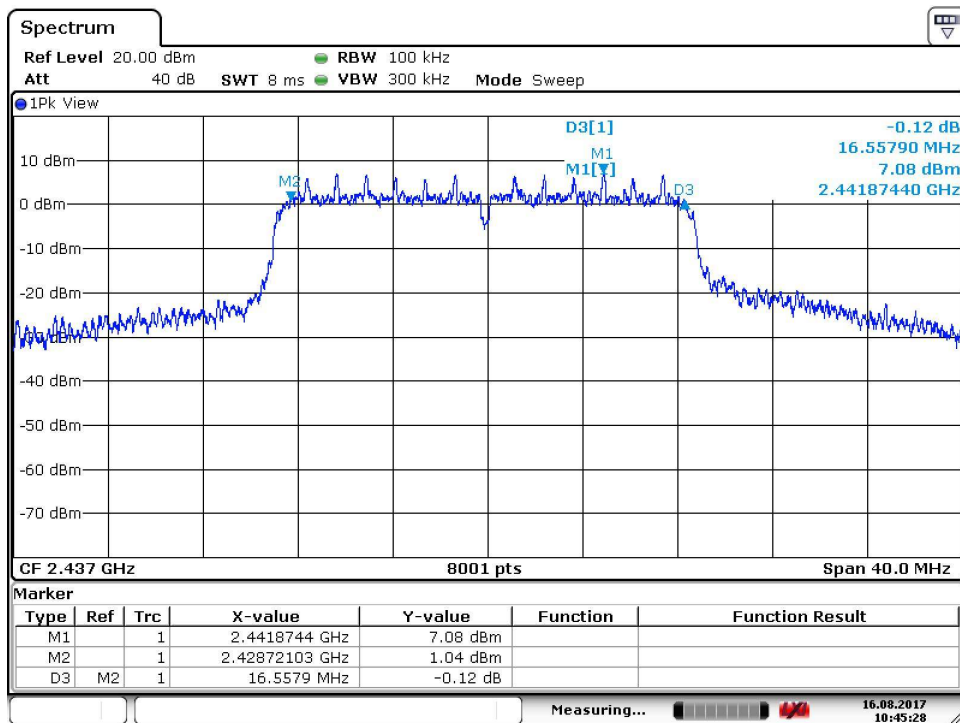
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	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
	DNB Job Number:	86019	Date:	16 Aug 2017
Customer:	Orbit Irrigation Products Inc.			Conformance Standard
Model Number:	WT25			FCC Part 15
Description:	WiFi Transmitter			Clause 15.247(a,2)
	802.11n20			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>				
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail
Low	2412	15483.100	> 500 kHz	Pass




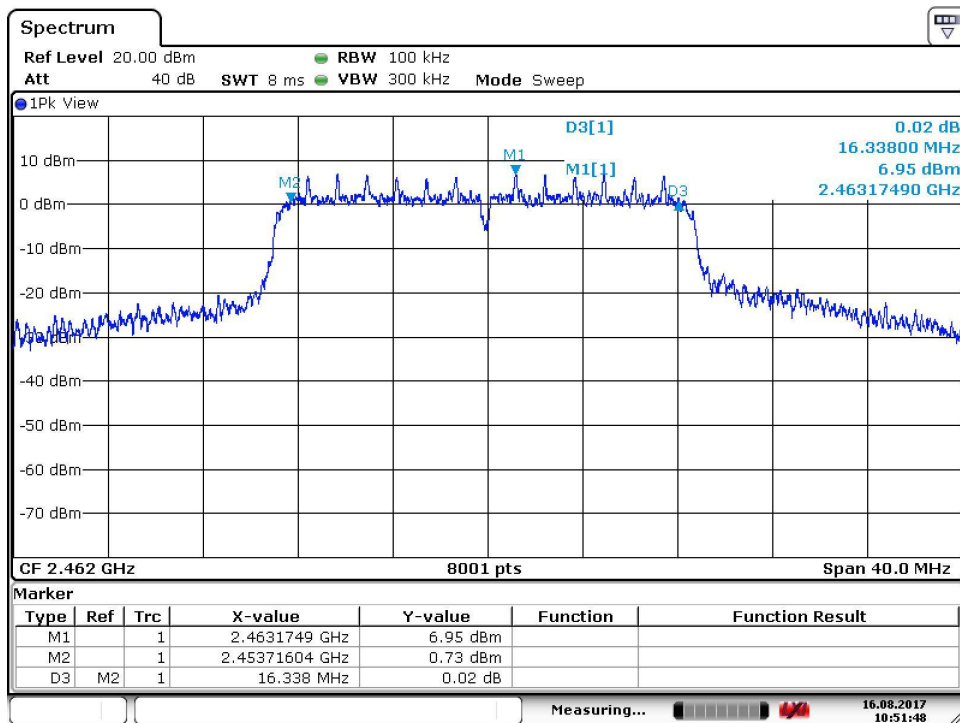
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	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
	DNB Job Number:	86019	Date:	16 Aug 2017
Customer:	Orbit Irrigation Products Inc.			Conformance Standard
Model Number:	WT25			FCC Part 15
Description:	WiFi Transmitter			Clause 15.247(a,2)
	802.11n20			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>				
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail
Middle	2437	16557.900	> 500 kHz	Pass




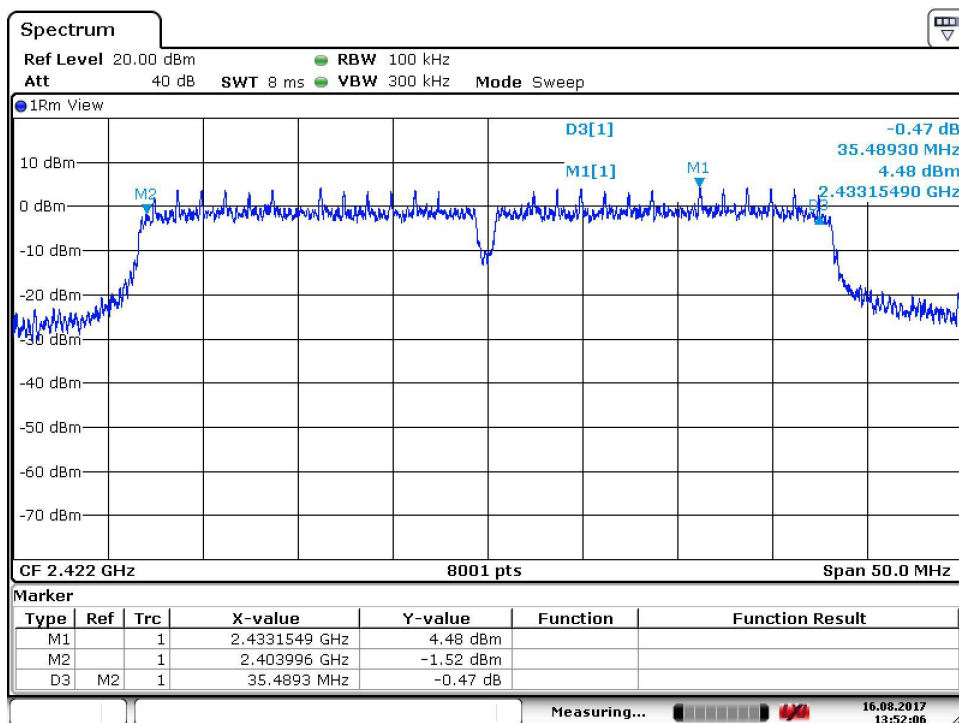
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		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
DNB Job Number:		86019		Date: 16 Aug 2017	
Customer:		Orbit Irrigation Products Inc.			
Model Number:		WT25			
Description:		WiFi Transmitter			
		802.11n20			
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>					
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail	
High	2462	16338.000	> 500 kHz	Pass	




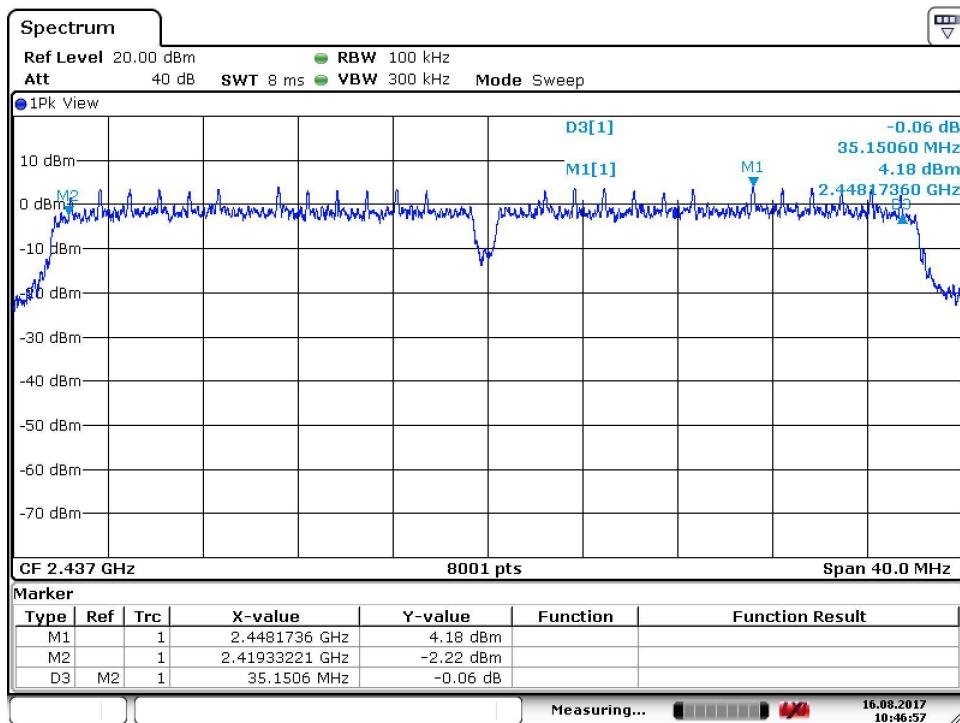
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	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
	DNB Job Number: 86019	Date: 16 Aug 2017	Conformance Standard FCC Part 15 Clause 15.247(a,2)	
Customer: Orbit Irrigation Products Inc.	Model Number: WT25			
Description: WiFi Transmitter 802.11n40				
Environmental Conditions				
Ambient Temperature 26 °C	Relative Humidity 30 %	Barometric Pressure 101.35 kPa		
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>				
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail
Low	2422	35489.300	> 500 kHz	Pass




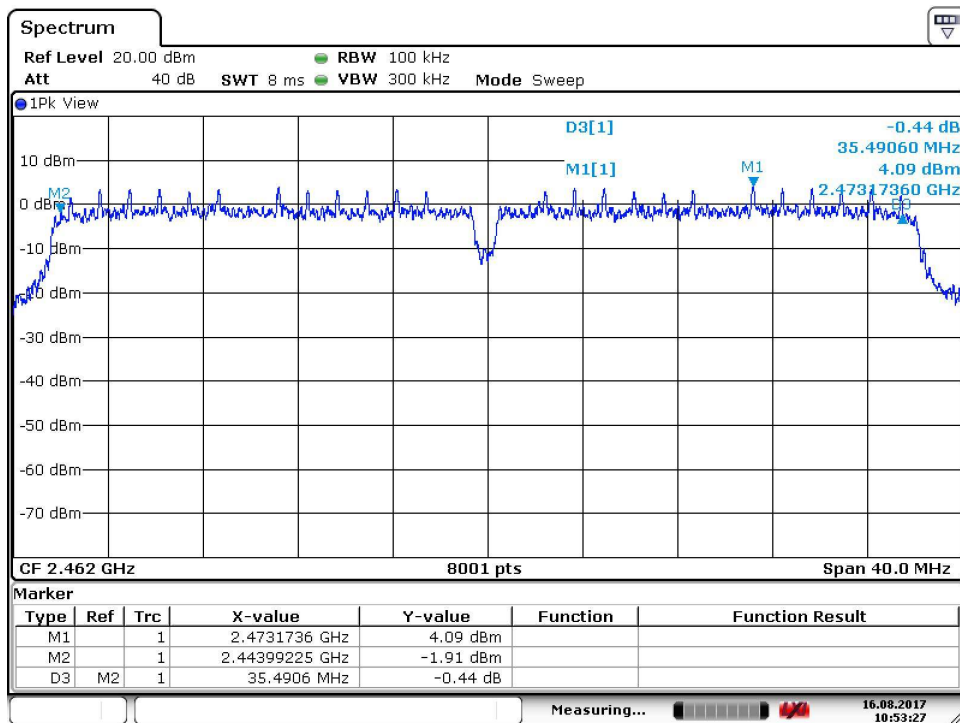
Date: 16.AUG.2017 13:52:06

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
	DNB Job Number:	86019	Date:	16 Aug 2017
Customer:	Orbit Irrigation Products Inc.			
Model Number:	WT25			
Description:	WiFi Transmitter			
	802.11n40			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>				
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail
Middle	2437	35150.600	> 500 kHz	Pass




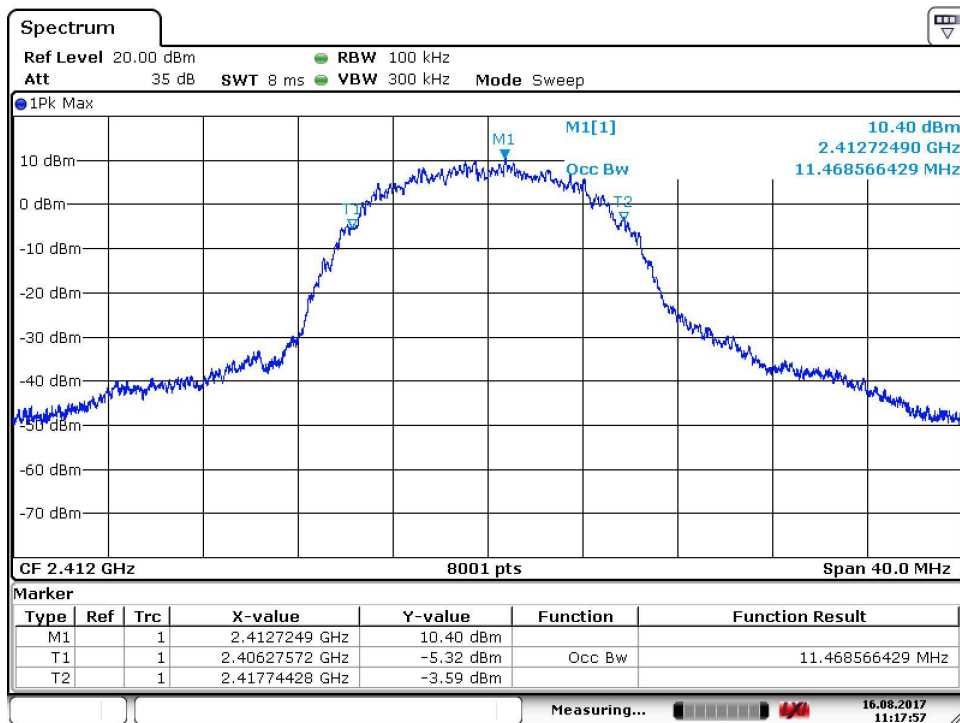
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	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		6 dB Single Channel Bandwidth	
	DNB Job Number:	86019	Date:	16 Aug 2017
Customer:	Orbit Irrigation Products Inc.			Conformance Standard
Model Number:	WT25			FCC Part 15
Description:	WiFi Transmitter			Clause 15.247(a,2)
	802.11n40			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>Les Payne</i>				
Channel	Chl Freq (MHz)	6dB BW (kHz)	Limit	Pass/Fail
High	2462	35490.600	> 500 kHz	Pass




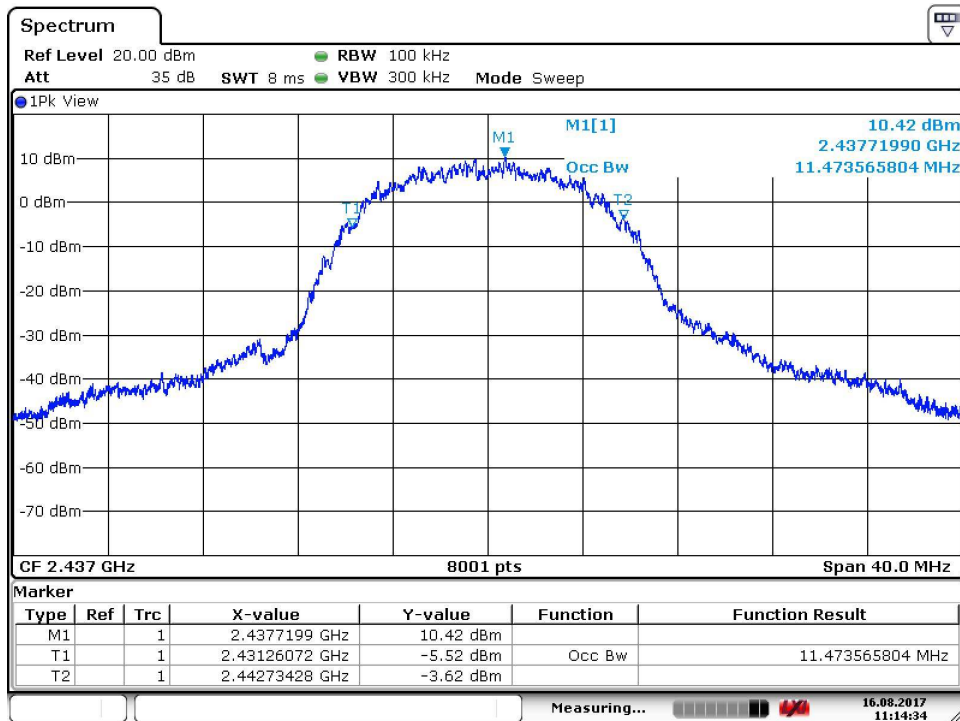
Date: 16.AUG.2017 10:53:26

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		99% Occupied Bandwidth	
	DNB Job Number:	86019	Date:	16 Aug 2017
Customer:	Orbit Irrigation Products Inc.			Conformance Standard
Model Number:	WT25			
Description:	WiFi Transmitter			RSS-Gen
	802.11b			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>CL Payne</i>				
Channel	Chl Freq (MHz)		99% BW (MHz)	
Low	2412		11.468566429	




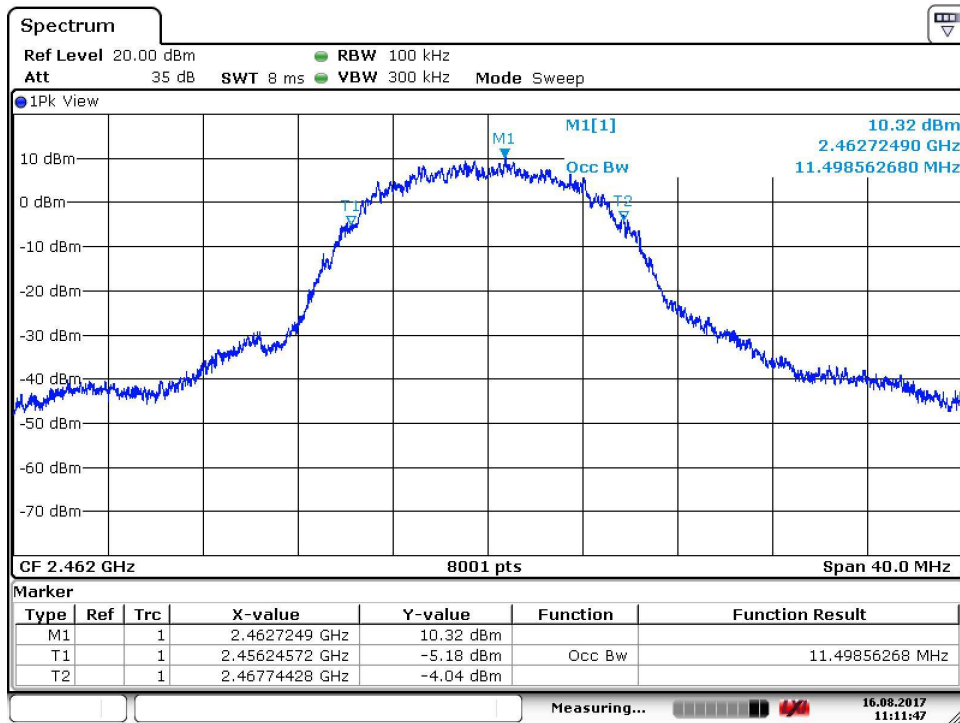
Date: 16.AUG.2017 11:17:57

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		99% Occupied Bandwidth	
DNB Job Number:	86019	Date:	16 Aug 2017	Conformance Standard RSS-Gen Clause Section 6.6
Customer:	Orbit Irrigation Products Inc.			
Model Number:	WT25			
Description:	WiFi Transmitter 802.11b			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>CL Payne</i>				
Channel	Chl Freq (MHz)	99% BW (MHz)		
Middle	2437	11.473565804		




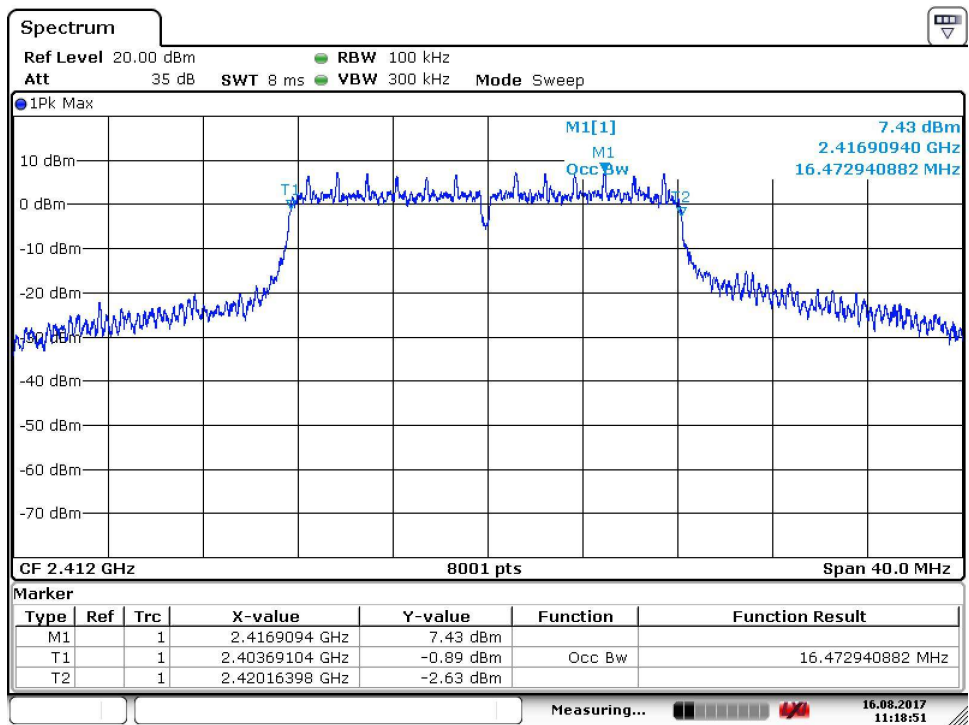
Date: 16.AUG.2017 11:14:34

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		99% Occupied Bandwidth	
	DNB Job Number:	86019	Date:	16 Aug 2017
Customer:	Orbit Irrigation Products Inc.			Conformance Standard
Model Number:	WT25			
Description:	WiFi Transmitter			RSS-Gen
	802.11b			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>CL Payne</i>				
Channel	Chl Freq (MHz)		99% BW (MHz)	
High	2462		11.498562680	




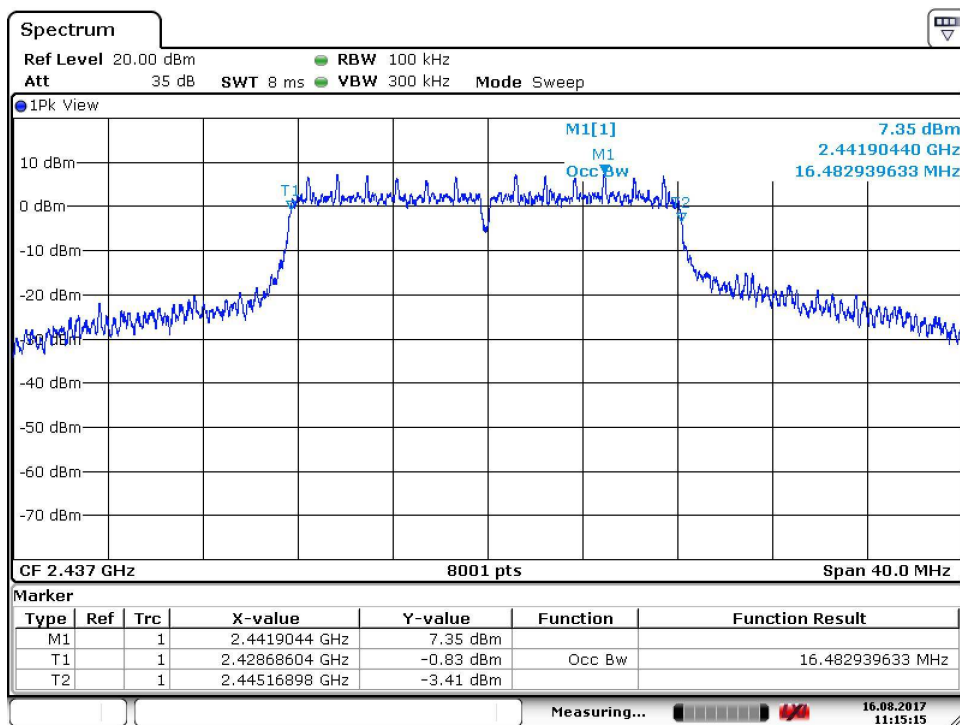
Date: 16.AUG.2017 11:11:47

		1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		99% Occupied Bandwidth	
DNB Job Number:	86019	Date:	16 Aug 2017	Conformance Standard RSS-Gen Clause Section 6.6	
Customer:	Orbit Irrigation Products Inc.				
Model Number:	WT25				
Description:	WiFi Transmitter				
	802.11g				
Environmental Conditions					
Ambient Temperature		Relative Humidity		Barometric Pressure	
26 °C		30 %		101.35 kPa	
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>CL Payne</i>					
Channel		Chl Freq (MHz)		99% BW (MHz)	
Low		2412		16.472940882	




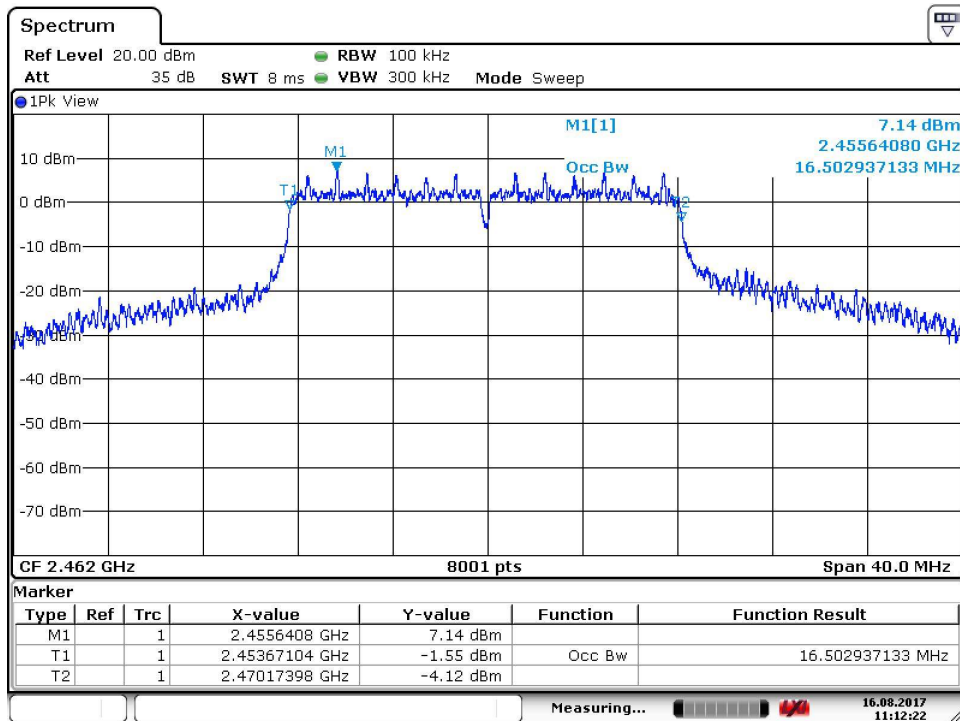
Date: 16.AUG.2017 11:18:51

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		99% Occupied Bandwidth	
	DNB Job Number: 86019	Date: 16 Aug 2017	Conformance Standard RSS-Gen Clause Section 6.6	
Customer: Orbit Irrigation Products Inc.	Model Number: WT25			
Description: WiFi Transmitter 802.11g				
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>CL Payne</i>				
Channel	Chl Freq (MHz)	99% BW (MHz)		
Middlev	2437	16.482939633		



Date: 16.AUG.2017 11:15:15

	1100 E Chalk Creek Road Coalville, UT 84017 (435) 336-4433 FAX (435) 336-4436		99% Occupied Bandwidth	
DNB Job Number:	86019	Date:	16 Aug 2017	Conformance Standard RSS-Gen Clause Section 6.6
Customer:	Orbit Irrigation Products Inc.			
Model Number:	WT25			
Description:	WiFi Transmitter 802.11g			
Environmental Conditions				
Ambient Temperature		Relative Humidity		Barometric Pressure
26 °C		30 %		101.35 kPa
EUT performed within the requirements of the applicable standard <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>CL Payne</i>				
Channel	Chl Freq (MHz)	99% BW (MHz)		
High	2462	16.502937133		



Date: 16.AUG.2017 11:12:21