

Test Report

Report No.: MTi241024014-01E1

Date of issue: 2024-11-14

Applicant: Shenzhen Topstar Industry Co., Ltd.

Product name: INIU SnapGo Pad, INIU SnapGo Stand

Model(s): W11, W21

FCC ID: 2A2ND-W21

Shenzhen Microtest Co., Ltd.

<http://www.mtitest.cn>

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Test Result Certification	
Applicant:	Shenzhen Topstar Industry Co., Ltd.
Address:	Jiaxiye Plaza 931, 328 Minzhi Avenue, Longhua District, Shenzhen City, Guangdong Province, China
Manufacturer:	Shenzhen Topstar Industry Co., Ltd.
Address:	Jiaxiye Plaza 931, 328 Minzhi Avenue, Longhua District, Shenzhen City, Guangdong Province, China
Product description	
Product name:	INIU SnapGo Pad, INIU SnapGo Stand
Trademark:	INIU
Model name:	W11
Series Model(s):	W21
Standards:	47 CFR Part 15C
Test Method:	ANSI C63.10-2013
Date of Test	
Date of test:	2024-10-31 to 2024-11-12
Test result:	Pass

Test Engineer	:	<i>Yanice Xie</i>
		(Yanice.Xie)
Reviewed By	:	<i>David. Lee</i>
		(David Lee)
Approved By	:	<i>Leon Chen</i>
		(Leon Chen)

1 General Description

1.1 Description of the EUT

Product name:	INIU SnapGo Pad, INIU SnapGo Stand
Model name:	W11
Series Model(s):	W21
Model difference:	All the models are the same circuit and module, except the product name, model name and accessories. INIU SnapGo Pad is W11, INIU SnapGo Stand is W21.
Electrical rating:	Input:DC9V/2.22A Output:5W/7.5W/15W
Accessories:	N/A
Hardware version:	V1.0
Software version:	V2.0
Test sample(s) number:	MTi241024014-01S1001
RF specification	
Operating frequency range:	115-205kHz(5W-7.5W) 360kHz(15W)
Modulation type:	ASK
Antenna(s) type:	Coil

1.2 Description of test modes

No.	Emission test modes
Mode1	Wireless Output(5W)
Mode2	Wireless Output(7.5W)
Mode3	Wireless Output(15W)
Mode4	Standby

1.3 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C ~ 35°C
Humidity:	20% RH ~ 75% RH
Atmospheric pressure:	98 kPa ~ 101 kPa

1.4 Description of support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Support equipment list			
Description	Model	Serial No.	Manufacturer
wireless charging load	YBZ1.1	/	YBZ
wireless charging load	YBZ3.0	/	YBZ
Lenovo Laptop Portable adapter	PA65Y	2S36005203PLA9F01830	Lenovo
Support cable list			
Description	Length (m)	From	To
/	/	/	/

1.5 Measurement uncertainty

Measurement	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	±3.1dB
Occupied channel bandwidth	±3 %
Radiated spurious emissions (9kHz~30MHz)	±4.3dB
Radiated spurious emissions (30MHz~1GHz)	±4.7dB
Temperature	±1 °C
Humidity	± 5 %

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2 Summary of Test Result

No.	Item	Standard	Requirement	Result
1	Antenna requirement	47 CFR Part 15C	47 CFR Part 15.203	Pass
2	Conducted Emission at AC power line	47 CFR Part 15C	47 CFR Part 15.207(a)	Pass
3	20dB Occupied Bandwidth	47 CFR Part 15C	47 CFR Part 15.215(c)	Pass
4	Emissions in frequency bands (below 30MHz)	47 CFR Part 15C	47 CFR Part 15.209	Pass
5	Emissions in frequency bands (30MHz - 1GHz)	47 CFR Part 15C	47 CFR Part 15.209	Pass

3 Test Facilities and accreditations

3.1 Test laboratory

Test laboratory:	Shenzhen Microtest Co., Ltd.
Test site location:	101, No.7, Zone 2, Xinxing Industrial Park, Fuhai Avenue, Xinhe Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Telephone:	(86-755)88850135
Fax:	(86-755)88850136
CNAS Registration No.:	CNAS L5868
FCC Registration No.:	448573
IC Registration No.:	21760
CABID:	CN0093

4 List of test equipment

No.	Equipment	Manufacturer	Model	Serial No.	Cal. date	Cal. Due
Conducted Emission at AC power line						
1	EMI Test Receiver	Rohde&schwarz	ESCI3	101368	2024-03-20	2025-03-19
2	Artificial mains network	Schwarzbeck	NSLK 8127	183	2024-03-21	2025-03-20
3	Artificial Mains Network	Rohde & Schwarz	ESH2-Z5	100263	2024-03-20	2025-03-19
20dB Occupied Bandwidth						
1	Wideband Radio Communication Tester	Rohde&schwarz	CMW500	149155	2024-03-20	2025-03-19
2	ESG Series Analog Ssignal Generator	Agilent	E4421B	GB40051240	2024-03-21	2025-03-20
3	PXA Signal Analyzer	Agilent	N9030A	MY51350296	2024-03-21	2025-03-20
4	Synthesized Sweeper	Agilent	83752A	3610A01957	2024-03-21	2025-03-20
5	MXA Signal Analyzer	Agilent	N9020A	MY50143483	2024-03-21	2025-03-20
6	RF Control Unit	Tonscend	JS0806-1	19D8060152	2024-03-21	2025-03-20
7	Band Reject Filter Group	Tonscend	JS0806-F	19D8060160	2024-03-21	2025-03-20
8	ESG Vector Signal Generator	Agilent	N5182A	MY50143762	2024-03-20	2025-03-19
9	DC Power Supply	Agilent	E3632A	MY40027695	2024-03-21	2025-03-20
Emissions in frequency bands (below 30MHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03-20	2025-03-19
2	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2025-03-22
3	Amplifier	Hewlett-Packard	8447F	3113A06184	2024-03-20	2025-03-19
Emissions in frequency bands (30MHz - 1GHz)						
1	EMI Test Receiver	Rohde&schwarz	ESCI7	101166	2024-03-20	2025-03-19
2	TRILOG Broadband Antenna	schwarabeck	VULB 9163	9163-1338	2023-06-11	2025-06-10
3	Active Loop Antenna	Schwarzbeck	FMZB 1519 B	00066	2024-03-23	2025-03-22
4	Amplifier	Hewlett-Packard	8447F	3113A06184	2024-03-20	2025-03-19

5 Evaluation Results (Evaluation)

5.1 Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.
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5.1.1 Conclusion:

The antenna of the EUT is permanently attached.
The EUT complies with the requirement of FCC PART 15.203.

6 Radio Spectrum Matter Test Results (RF)

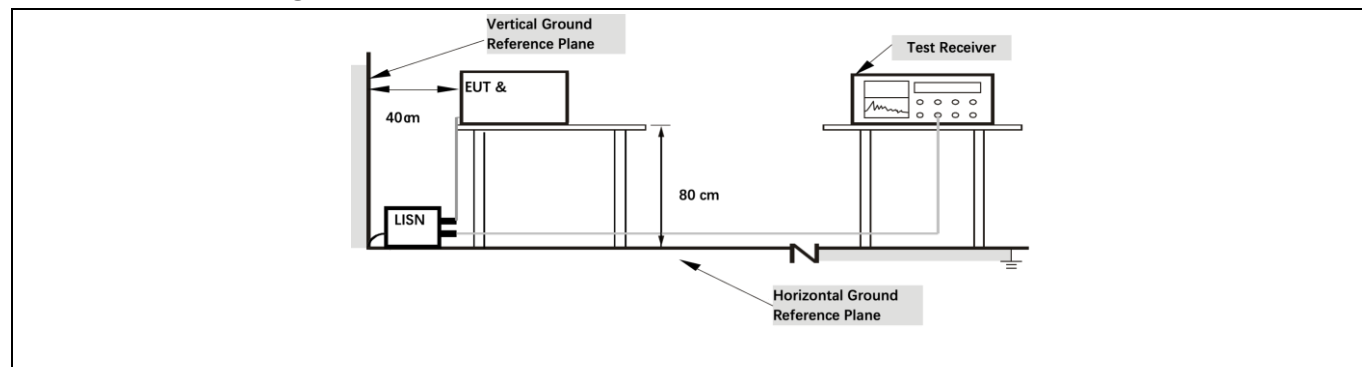
6.1 Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	ANSI C63.10-2013 section 6.2		
Procedure:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

6.1.1 E.U.T. Operation:

Operating Environment:					
Temperature:	25.9 °C	Humidity:	44 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode3) is recorded in the report				

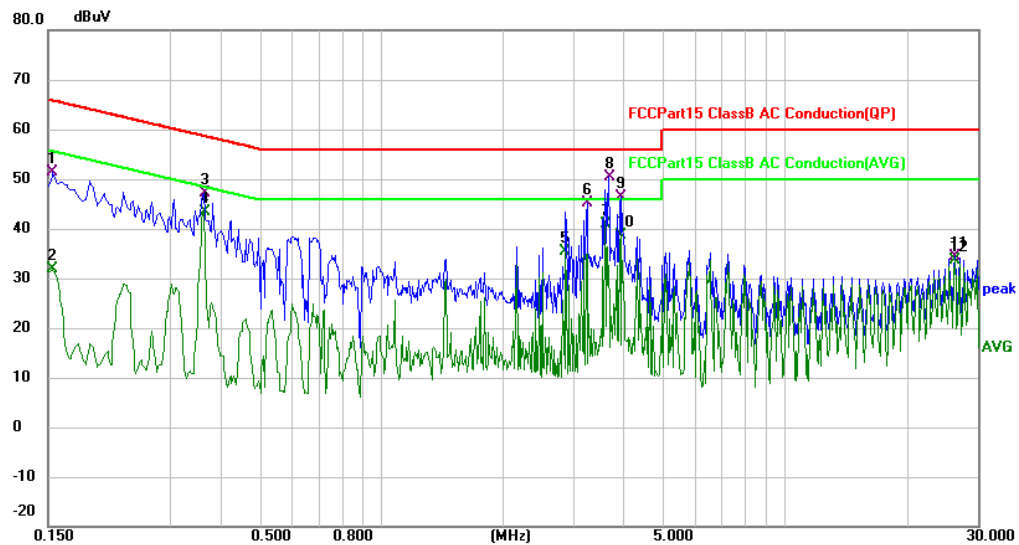
6.1.2 Test Setup Diagram:



6.1.3 Test Data:

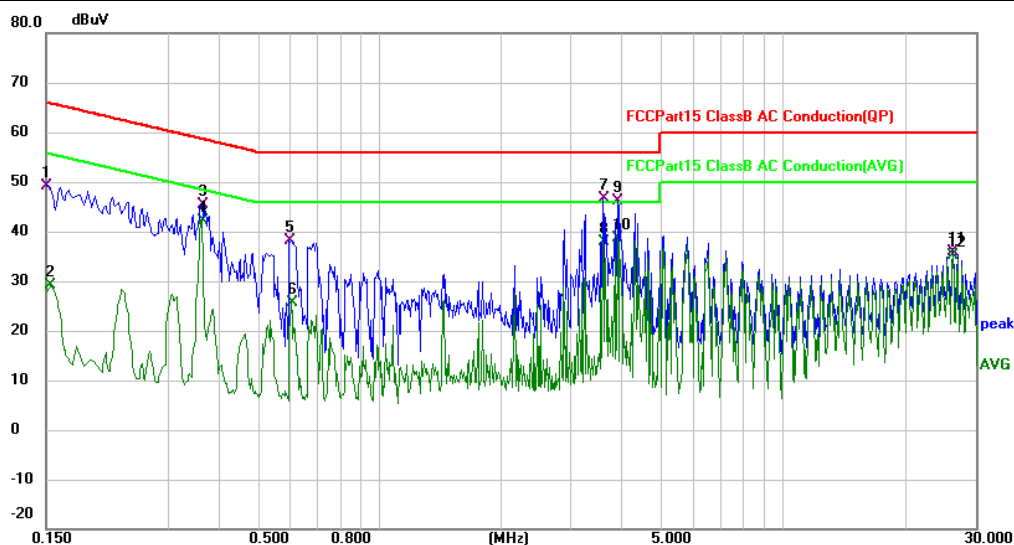
W11:

Mode3 / Line: Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	41.02	10.30	51.32	65.79	-14.47	QP	
2		0.1539	21.46	10.30	31.76	55.79	-24.03	AVG	
3		0.3620	36.79	10.38	47.17	58.68	-11.51	QP	
4		0.3620	33.00	10.38	43.38	48.68	-5.30	AVG	
5		2.8820	24.88	10.57	35.45	46.00	-10.55	AVG	
6		3.2420	34.62	10.56	45.18	56.00	-10.82	QP	
7	*	3.6020	30.20	10.56	40.76	46.00	-5.24	AVG	
8		3.6660	39.75	10.56	50.31	56.00	-5.69	QP	
9		3.9620	35.78	10.57	46.35	56.00	-9.65	QP	
10		3.9620	27.97	10.57	38.54	46.00	-7.46	AVG	
11		26.2820	23.49	10.93	34.42	60.00	-25.58	QP	
12		26.2820	22.61	10.93	33.54	50.00	-16.46	AVG	

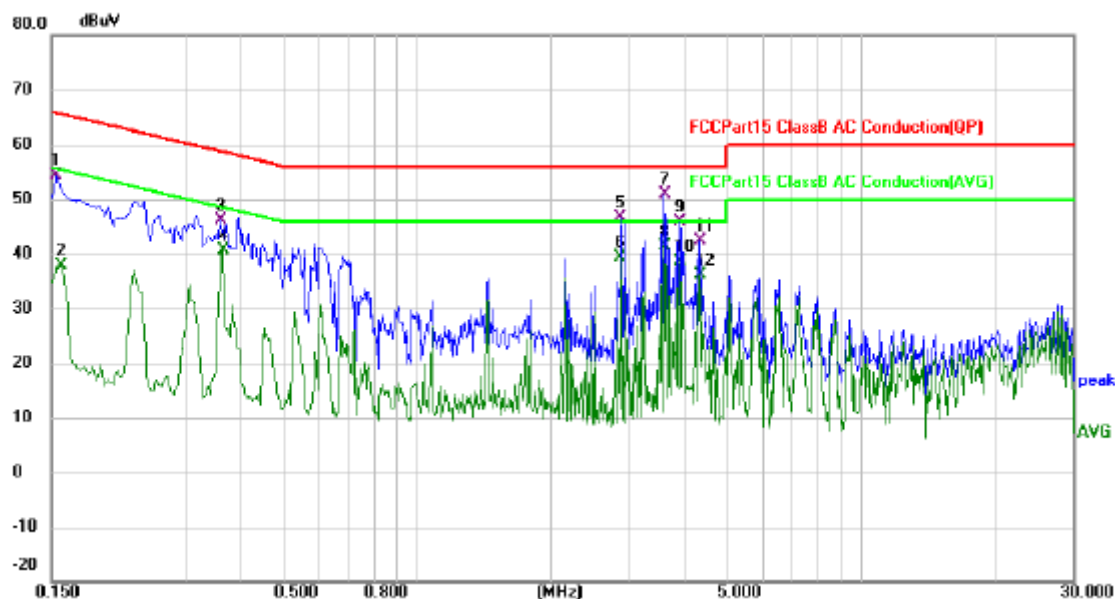
Mode3 / Line: Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	38.95	10.29	49.24	66.00	-16.76	QP	
2		0.1539	18.85	10.30	29.15	55.79	-26.64	AVG	
3		0.3620	34.91	10.38	45.29	58.68	-13.39	QP	
4	*	0.3620	31.69	10.38	42.07	48.68	-6.61	AVG	
5		0.5980	27.70	10.45	38.15	56.00	-17.85	QP	
6		0.6060	15.24	10.46	25.70	46.00	-20.30	AVG	
7		3.6020	36.12	10.56	46.68	56.00	-9.32	QP	
8		3.6020	27.41	10.56	37.97	46.00	-8.03	AVG	
9		3.9140	35.53	10.57	46.10	56.00	-9.90	QP	
10		3.9140	27.98	10.57	38.55	46.00	-7.45	AVG	
11		26.2820	25.04	10.93	35.97	60.00	-24.03	QP	
12		26.2820	24.27	10.93	35.20	50.00	-14.80	AVG	

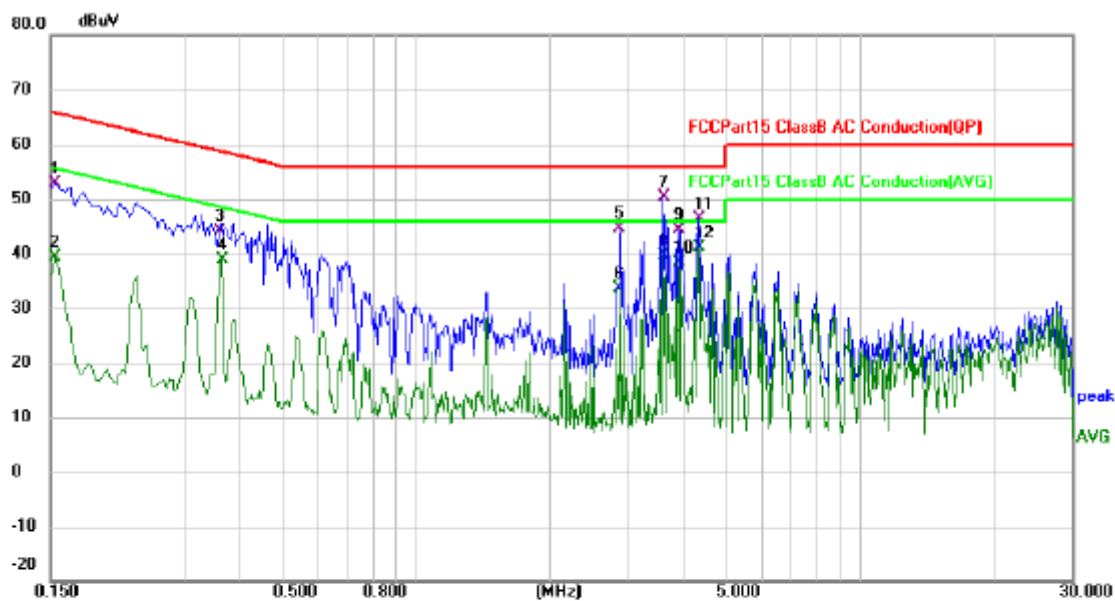
W21:

Mode3 / Line: Line



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	43.64	10.74	54.38	65.79	-11.41	QP	
2		0.1580	27.17	10.74	37.91	55.57	-17.66	AVG	
3		0.3580	35.43	10.72	46.15	58.77	-12.62	QP	
4		0.3620	29.95	10.72	40.67	48.68	-8.01	AVG	
5		2.8820	35.73	10.80	46.53	56.00	-9.47	QP	
6		2.8820	28.68	10.80	39.48	46.00	-6.52	AVG	
7		3.6020	39.98	10.82	50.80	56.00	-5.20	QP	
8	*	3.6020	30.62	10.82	41.44	46.00	-4.56	AVG	
9		3.9140	35.05	10.83	45.88	56.00	-10.12	QP	
10		3.9140	27.85	10.83	38.68	46.00	-7.32	AVG	
11		4.3220	31.46	10.84	42.30	56.00	-13.70	QP	
12		4.3220	25.35	10.84	36.19	46.00	-9.81	AVG	

Mode3 / Line: Neutral



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	42.14	10.77	52.91	65.79	-12.88	QP	
2		0.1539	28.56	10.77	39.33	55.79	-16.46	AVG	
3		0.3580	33.51	10.74	44.25	58.77	-14.52	QP	
4		0.3620	28.06	10.74	38.80	48.68	-9.88	AVG	
5		2.8820	33.77	10.82	44.59	56.00	-11.41	QP	
6		2.8820	22.85	10.82	33.67	46.00	-12.33	AVG	
7		3.6020	39.58	10.84	50.42	56.00	-5.58	QP	
8		3.6020	28.67	10.84	39.51	46.00	-6.49	AVG	
9		3.9140	33.51	10.85	44.36	56.00	-11.64	QP	
10		3.9140	27.41	10.85	38.26	46.00	-7.74	AVG	
11		4.3180	35.47	10.86	46.33	56.00	-9.67	QP	
12	*	4.3180	30.32	10.86	41.18	46.00	-4.82	AVG	

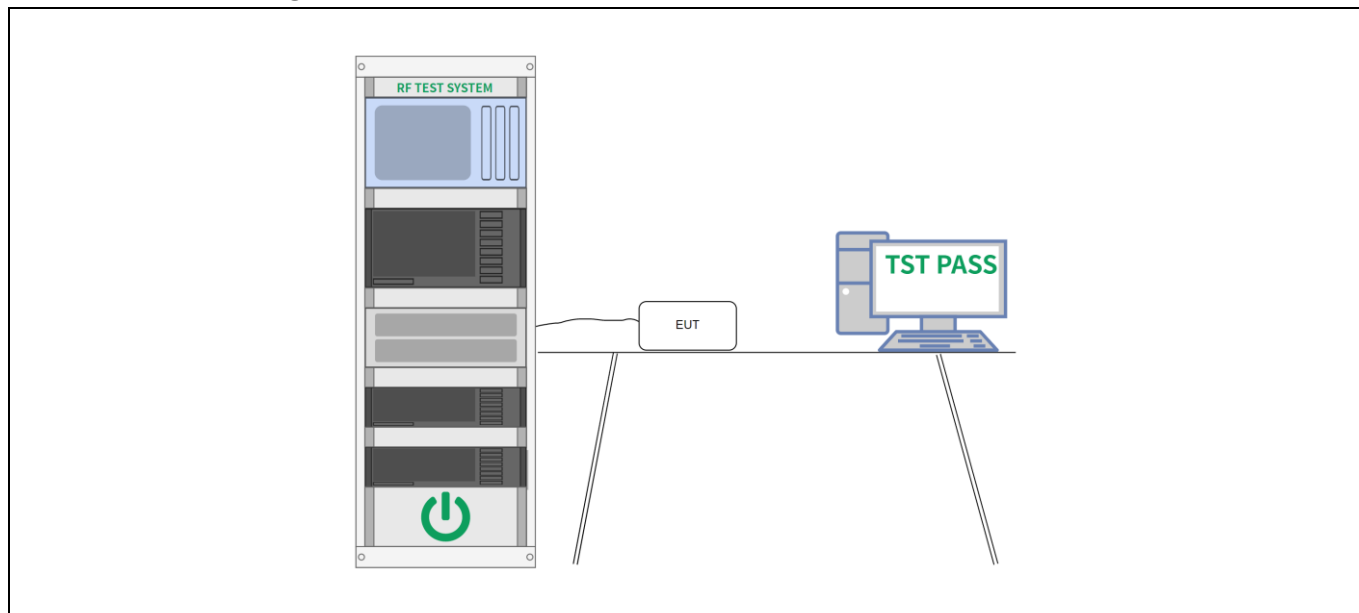
6.2 20dB Occupied Bandwidth

Test Requirement:	47 CFR Part 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2013, section 6.9.2
Procedure:	<p>a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.</p> <p>b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.</p> <p>c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.</p> <p>d) Steps a) through c) might require iteration to adjust within the specified tolerances.</p> <p>e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.</p> <p>f) Set detection mode to peak and trace mode to max hold.</p> <p>g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).</p> <p>h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - \text{xx}]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.</p> <p>i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).</p> <p>j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.</p> <p>k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).</p>

6.2.1 E.U.T. Operation:

Operating Environment:					
Temperature:	24 °C	Humidity:	54 %	Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4				
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode2, Mode3) is recorded in the report				

6.2.2 Test Setup Diagram:

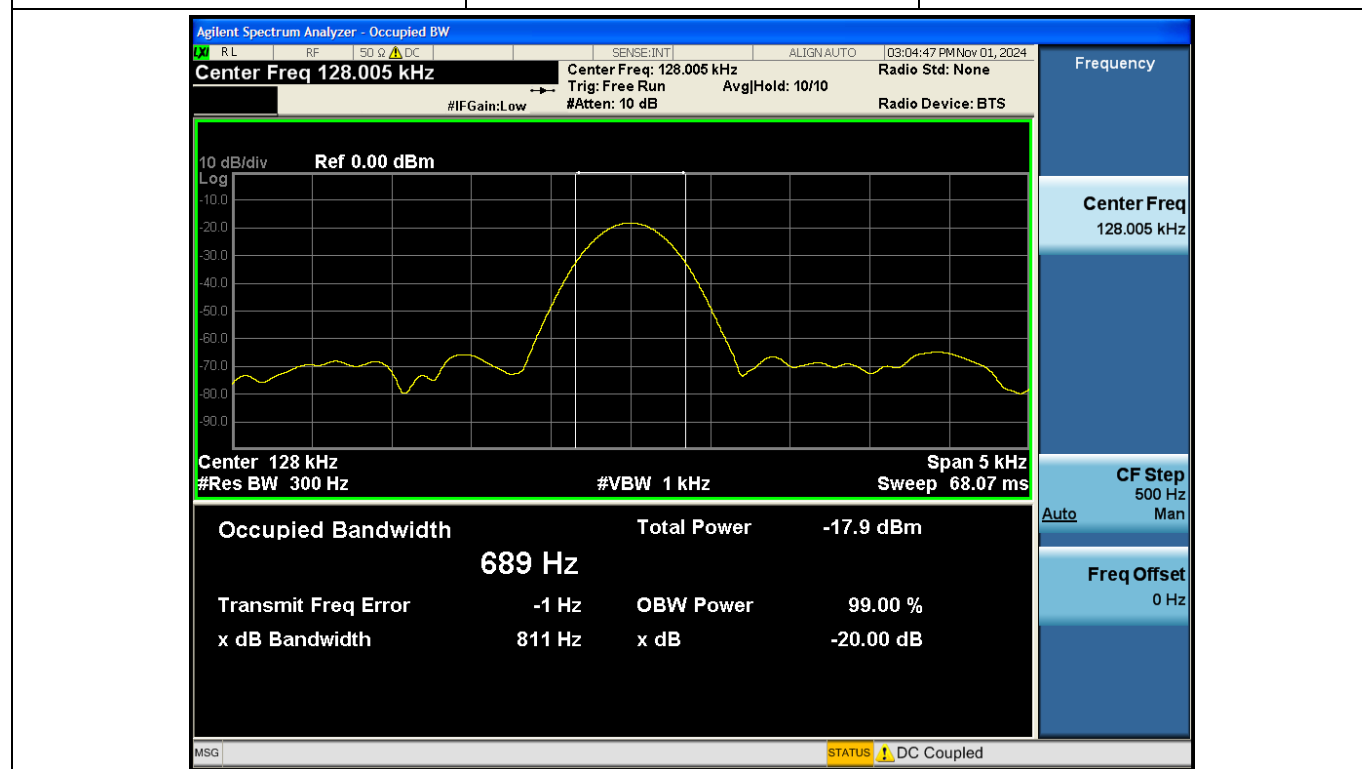


6.2.3 Test Data:

Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

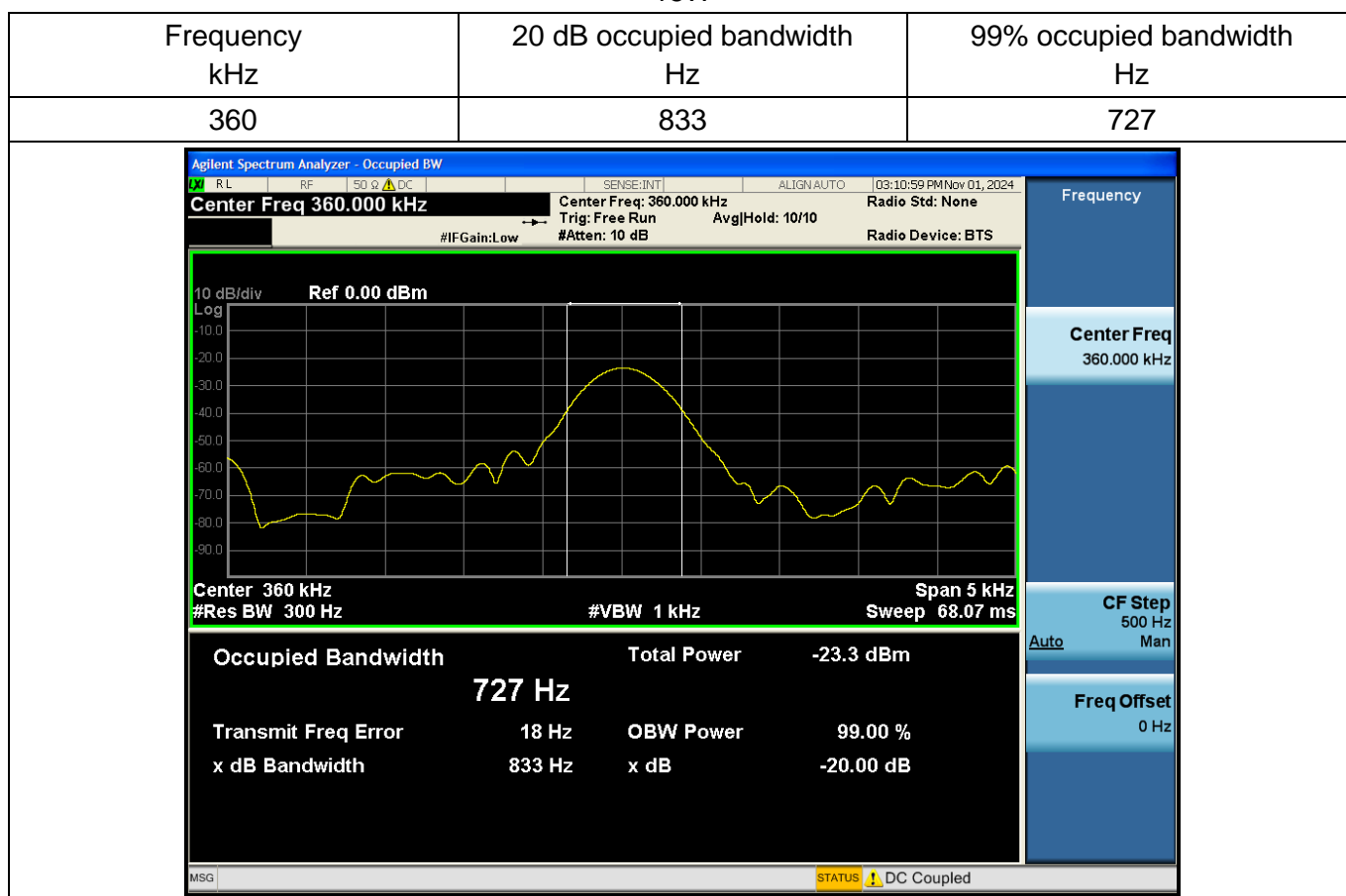
7.5W

Frequency kHz	20 dB occupied bandwidth Hz	99% occupied bandwidth Hz
128.005	811	689



Note: Because the measured signal is CW-like, adjusting the RBW per C63.10 would not be practical since measurement bandwidth will always follow the RBW. The RBW is set to 300 Hz to perform the occupied bandwidth test.

15W



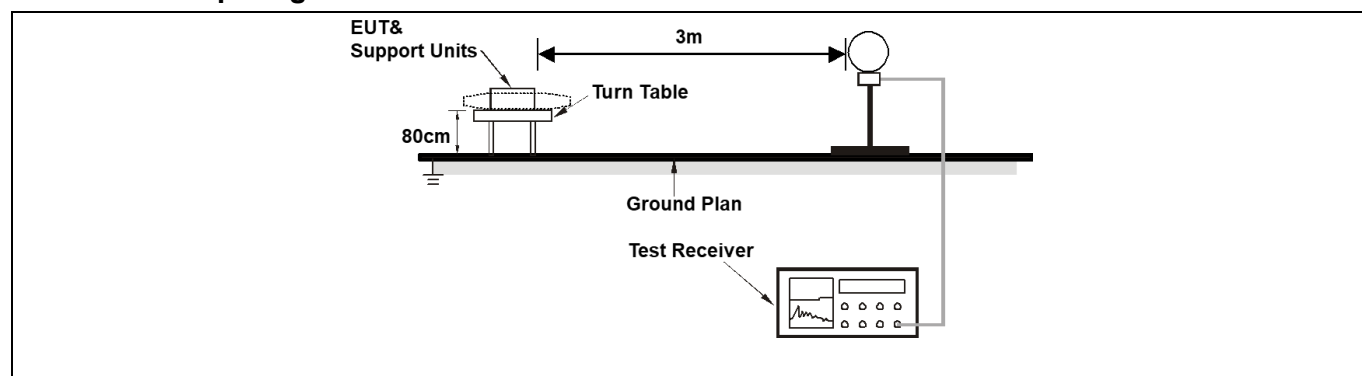
6.3 Emissions in frequency bands (below 30MHz)

Test Requirement:	47 CFR Part 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.			
Test Method:	ANSI C63.10-2013 section 6.4		
Procedure:	ANSI C63.10-2013 section 6.4		

6.3.1 E.U.T. Operation:

Operating Environment:			
Temperature:	22.5 °C	Humidity:	43 %
		Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4		
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode2, Mode3) is recorded in the report		

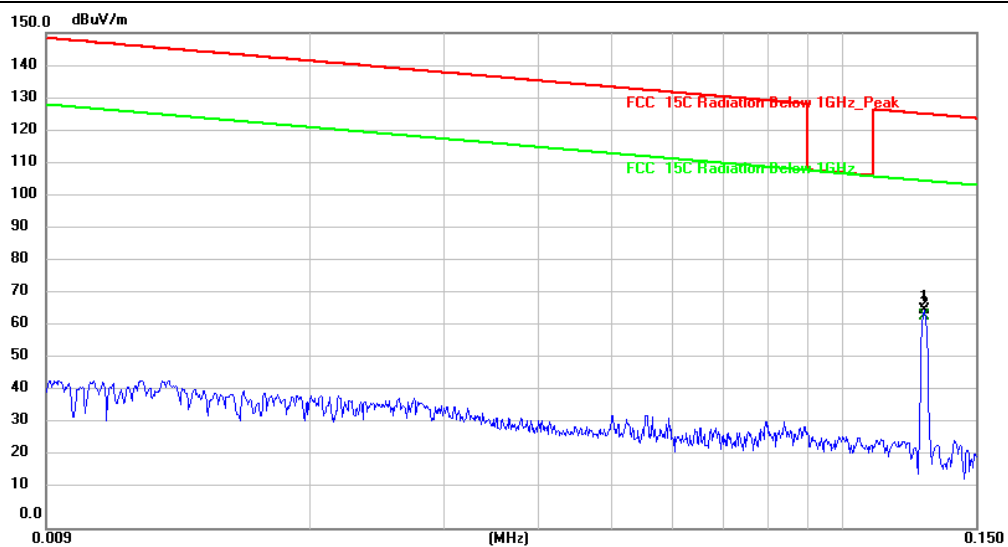
6.3.2 Test Setup Diagram:



6.3.3 Test Data:

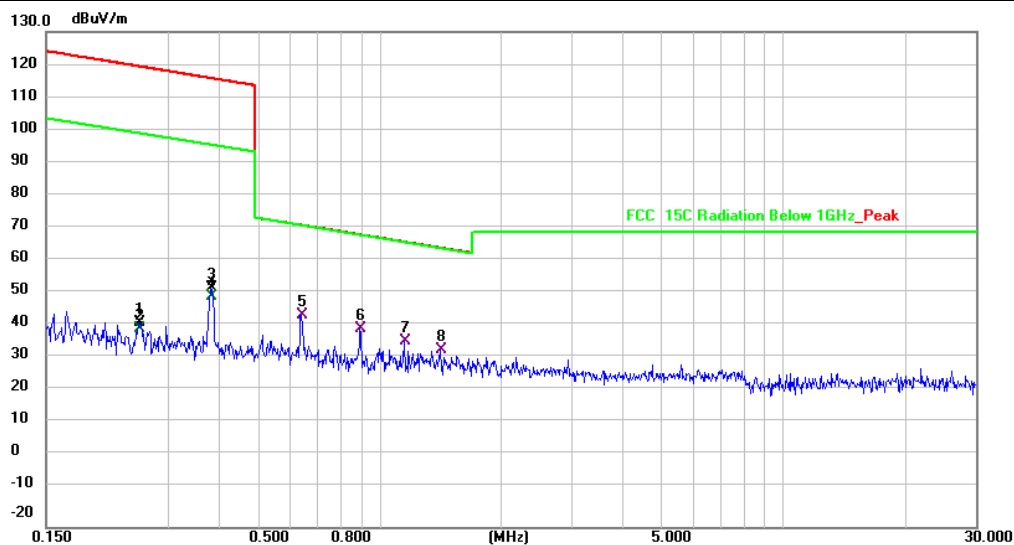
W11:

Mode2 / Polarization: Coplanar



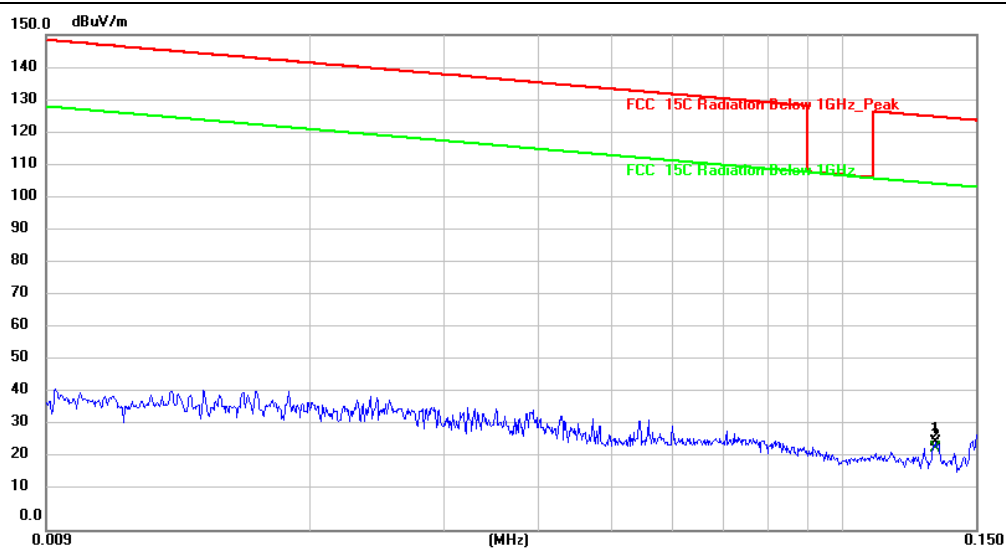
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.1281	45.74	20.47	66.21	125.47	-59.26	peak	
2	*	0.1281	43.73	20.47	64.20	105.47	-41.27	AVG	

Mode2 / Polarization: Coplanar



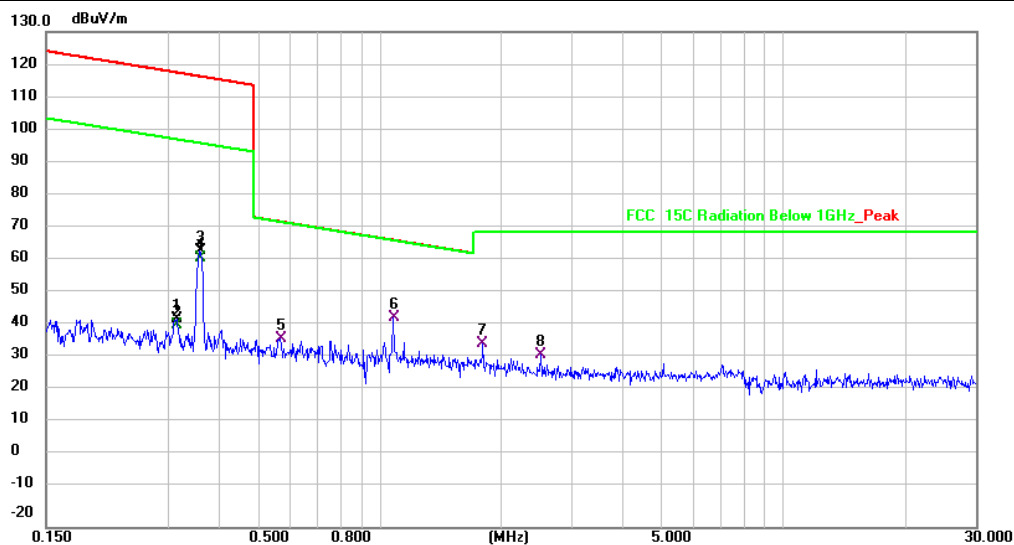
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.2535	21.24	20.83	42.07	119.53	-77.46	peak	
2		0.2535	19.37	20.83	40.20	99.53	-59.33	AVG	
3		0.3832	31.59	21.13	52.72	115.94	-63.22	peak	
4		0.3832	28.97	21.13	50.10	95.94	-45.84	AVG	
5	*	0.6406	22.61	21.74	44.35	71.48	-27.13	QP	
6		0.8944	17.70	22.34	40.04	68.59	-28.55	QP	
7		1.1534	13.57	22.91	36.48	66.39	-29.91	QP	
8		1.4107	10.55	23.44	33.99	64.64	-30.65	QP	

Mode3 / Polarization: Coplanar



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.1324	6.18	20.47	26.65	125.19	-98.54	peak	
2	*	0.1324	4.33	20.47	24.80	105.19	-80.39	AVG	

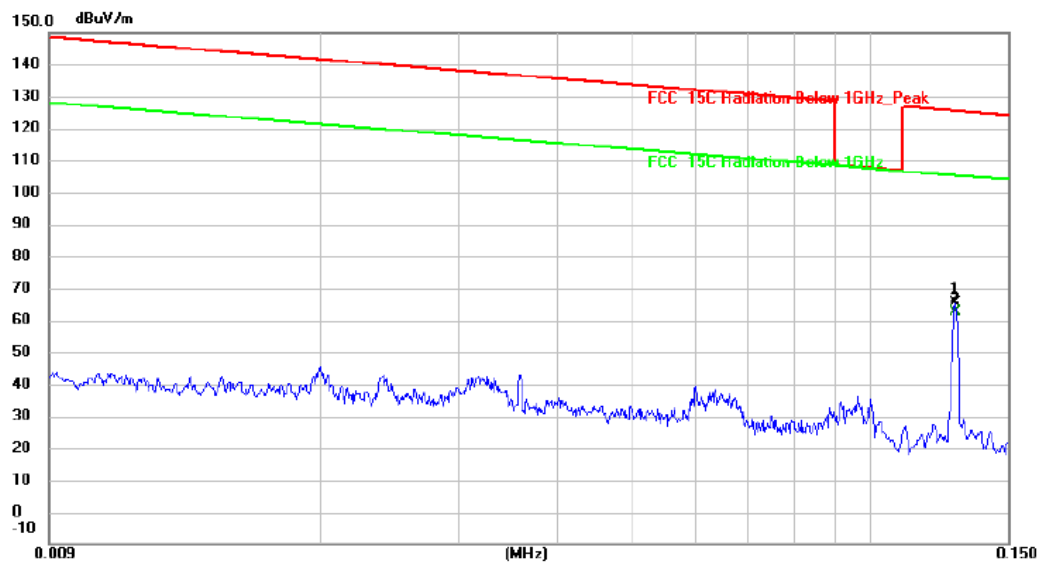
Mode3 / Polarization: Coplanar



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.3149	22.33	20.97	43.30	117.65	-74.35	peak	
2		0.3149	20.23	20.97	41.20	97.65	-56.45	AVG	
3		0.3596	42.73	21.08	63.81	116.49	-52.68	peak	
4		0.3596	40.32	21.08	61.40	96.49	-35.09	AVG	
5		0.5670	15.75	21.57	37.32	72.54	-35.22	QP	
6	*	1.0824	20.96	22.76	43.72	66.94	-23.22	QP	
7		1.8000	11.58	24.24	35.82	69.50	-33.68	QP	
8		2.5266	6.51	25.75	32.26	69.50	-37.24	QP	

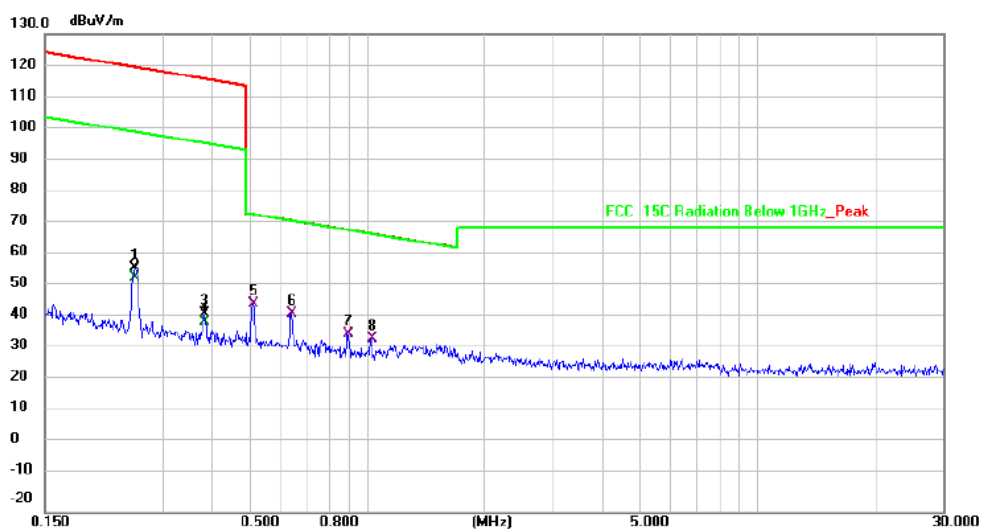
W21:

Mode2 / Polarization: Coplanar



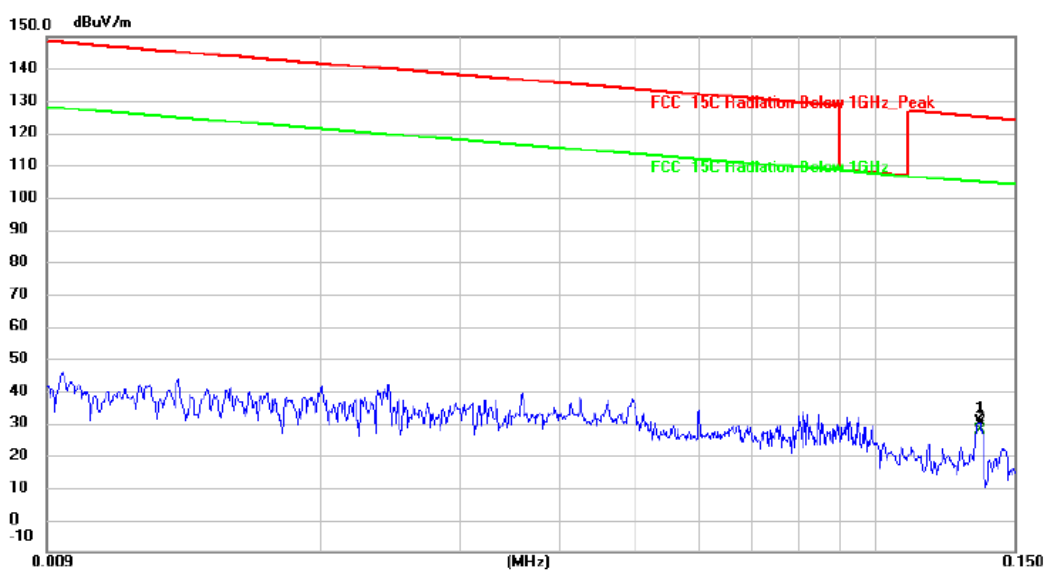
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.1281	45.96	19.50	65.46	125.47	-60.01	peak	
2	*	0.1281	43.07	19.50	62.57	105.47	-42.90	AVG	

Mode2 / Polarization: Coplanar



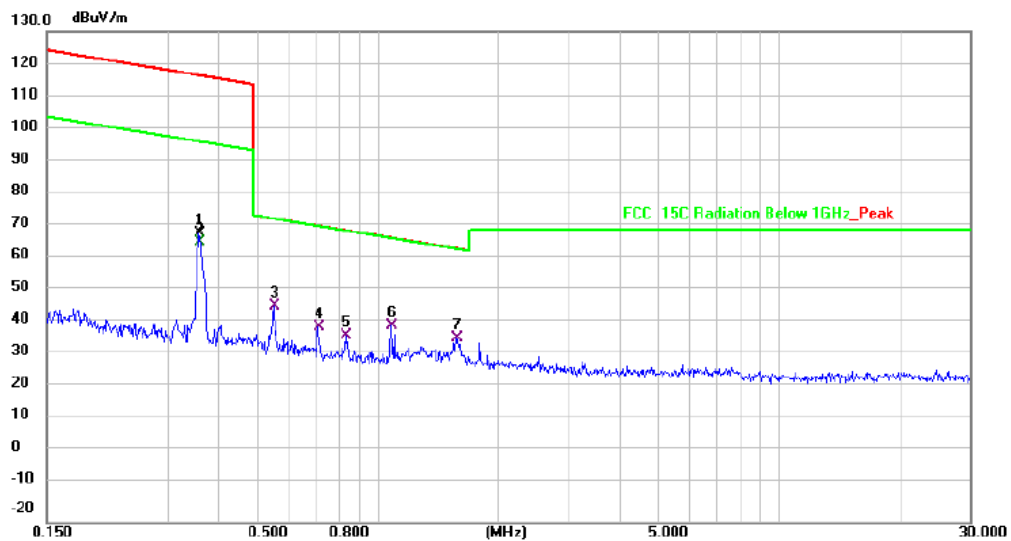
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		0.2548	37.37	19.35	56.72	119.49	-62.77	peak	
2		0.2548	34.49	19.35	53.84	99.49	-45.65	AVG	
3		0.3832	23.07	19.48	42.55	115.94	-73.39	peak	
4		0.3832	20.19	19.48	39.67	95.94	-56.27	AVG	
5	*	0.5101	25.78	19.70	45.48	73.45	-27.97	QP	
6		0.6406	22.57	19.74	42.31	71.48	-29.17	QP	
7		0.8944	16.52	19.70	36.22	68.59	-32.37	QP	
8		1.0265	14.66	19.80	34.46	67.39	-32.93	QP	

Mode3 / Polarization: Coplanar



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		0.1352	10.79	19.50	30.29	125.00	-94.71	peak	
2	*	0.1352	8.14	19.50	27.64	105.00	-77.36	AVG	

Mode3 / Polarization: Coplanar



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1		0.3596	48.99	19.46	68.45	116.49	-48.04	peak	
2		0.3596	46.27	19.46	65.73	96.49	-30.76	AVG	
3	*	0.5523	26.61	19.70	46.31	72.76	-26.45	QP	
4		0.7122	19.92	19.79	39.71	70.56	-30.85	QP	
5		0.8349	17.59	19.70	37.29	69.18	-31.89	QP	
6		1.0824	20.30	19.81	40.11	66.94	-26.83	QP	
7		1.5684	16.49	19.87	36.36	63.72	-27.36	QP	

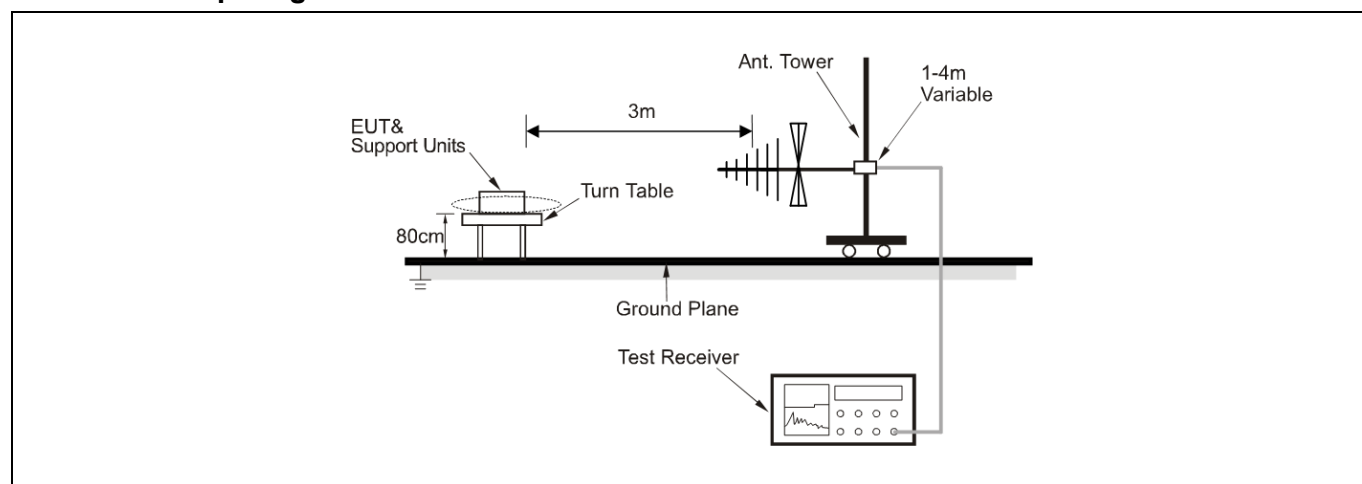
6.4 Emissions in frequency bands (30MHz - 1GHz)

Test Requirement:	47 CFR Part 15.209		
Test Limit:	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector. As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500 millivolts/meter at 3 meters along the antenna azimuth.			
Test Method:	ANSI C63.10-2013 section 6.5		
Procedure:	ANSI C63.10-2013 section 6.5		

6.4.1 E.U.T. Operation:

Operating Environment:			
Temperature:	22.5 °C	Humidity:	43 %
		Atmospheric Pressure:	101 kPa
Pre test mode:	Mode1, Mode2, Mode3, Mode4		
Final test mode:	All of the listed pre-test mode were tested, only the data of the worst mode (Mode2) is recorded in the report		

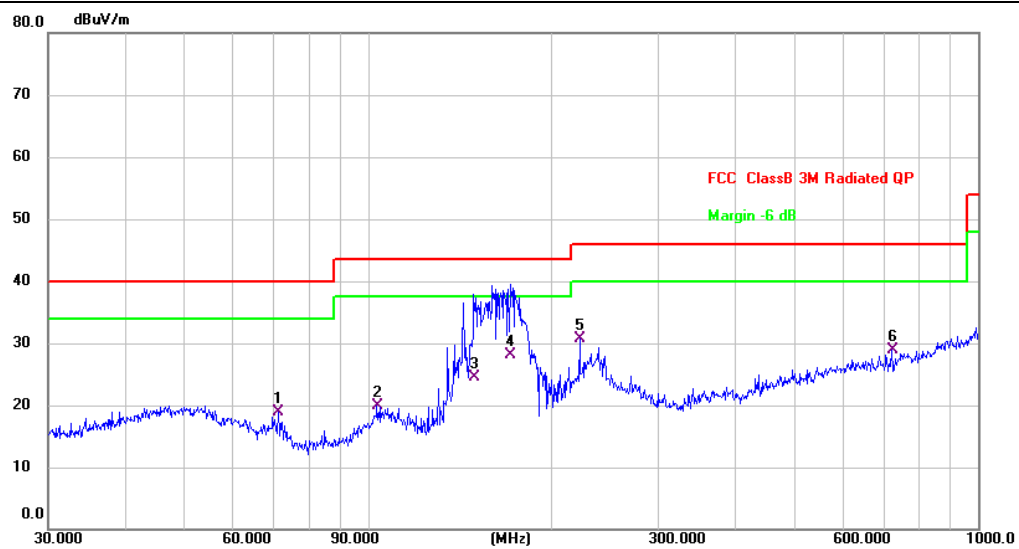
6.4.2 Test Setup Diagram:



6.4.3 Test Data:

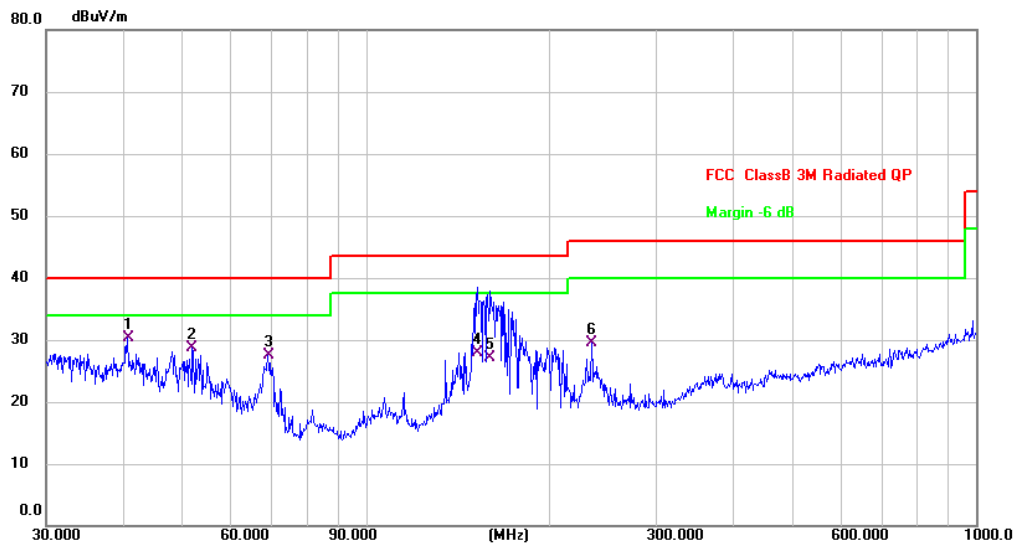
W11:

Mode2 / Polarization: Horizontal



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	71.3300	29.37	-10.43	18.94	40.00	-21.06	QP	
2	103.4421	27.64	-7.66	19.98	43.50	-23.52	QP	
3	148.9625	34.78	-10.28	24.50	43.50	-19.00	QP	
4 *	170.7926	38.34	-10.14	28.20	43.50	-15.30	QP	
5	222.9502	38.91	-8.23	30.68	46.00	-15.32	QP	
6	721.7259	27.26	1.69	28.95	46.00	-17.05	QP	

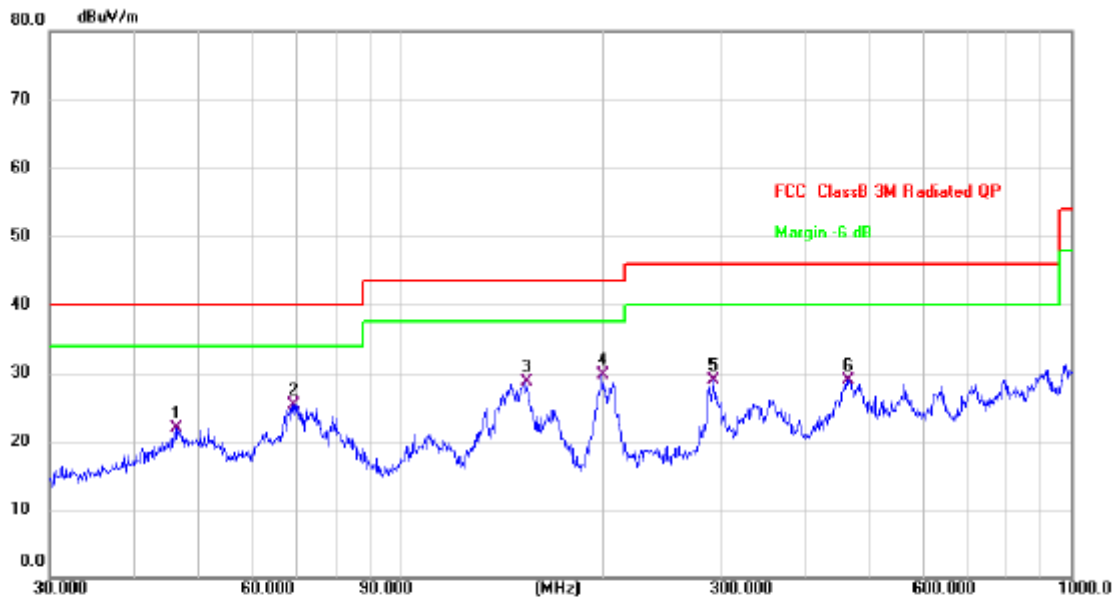
Mode2 / Polarization: Vertical



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	40.7016	37.97	-7.64	30.33	40.00	-9.67	QP	
2		52.0251	35.44	-6.80	28.64	40.00	-11.36	QP	
3		69.1141	37.57	-10.12	27.45	40.00	-12.55	QP	
4		152.1297	37.73	-9.83	27.90	43.50	-15.60	QP	
5		159.7844	36.86	-9.76	27.10	43.50	-16.40	QP	
6		234.9909	36.24	-6.76	29.48	46.00	-16.52	QP	

W21:

Mode2 / Polarization: Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		46.5030	29.32	-7.34	21.98	40.00	-18.02	QP	
2		69.3568	36.42	-11.03	25.39	40.00	-14.61	QP	
3		153.7385	39.40	-10.64	28.76	43.50	-14.74	QP	
4	*	199.9856	35.86	-6.11	29.75	43.50	-13.75	QP	
5		292.0583	33.97	-5.13	28.84	46.00	-17.16	QP	
6		465.5994	32.92	-4.07	28.85	46.00	-17.15	QP	

Mode2 / Polarization: Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over		
		MHz	Level	Factor	ment			Detector	Comment
			dBuV	dB	dBuV/m	dBuV/m	dB		
1		46.1779	36.86	-7.28	29.58	40.00	-10.42	QP	
2		51.1209	37.41	-7.26	30.15	40.00	-9.85	QP	
3	*	67.9129	47.08	-10.89	36.19	40.00	-3.81	QP	
4		128.1130	46.37	-12.08	34.29	43.50	-9.21	QP	
5		200.6881	38.64	-6.34	32.30	43.50	-11.20	QP	
6		472.1760	32.43	-4.18	28.25	46.00	-17.75	QP	

Photographs of the test setup

Refer to Appendix - Test Setup Photos

Photographs of the EUT

Refer to Appendix - EUT Photos

----End of Report----