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Report On

Radio Testing of the
DICKY-John, Corp.
RVS III Radar Sensor, Model: 46783

FCC Part 15 Subpart C §15.245
IC RSS-210 Issue 8 December 2010

Report No. SD72107714-0715B

October 2015



America

TÜV SÜD America Inc., 10040 Mesa Rim Road, San Diego, CA 92121
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REPORT ON	Radio Testing of the DICKY-John, Corp. RVS III Radar Sensor
TEST REPORT NUMBER	SD72107714-0715B
PREPARED FOR	DICKY-John, Corp. 5200 DICKY-John Road Auburn, IL 62615
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PREPARED BY	 _____ Nikolay Shtin Name Authorized Signatory Title: EMC/Wireless Test Engineer
APPROVED BY	 _____ Juan Manuel Gonzalez Name Authorized Signatory Title: Commercial/Wireless EMC Lab Manager
DATED	_____ October 19, 2015



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Revision History

SD72107714-0715B
DICKY-John, Corp.
RVS III Radar Sensor

DATE	OLD REVISION	NEW REVISION	REASON	PAGES AFFECTED	APPROVED BY
10/19/15	Initial Release				Juan M. Gonzalez

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SECTION 1

REPORT SUMMARY

Radio Testing of the
DICKY-John, Corp.
RVS III Radar Sensor
Model: 46783



1.1 INTRODUCTION

The information contained in this report is intended to show verification of the DICKEY-John, Corp. Radar Velocity Sensor to the requirements of FCC Part 15 Subpart C §15.245 and IC RSS-210 Issue 8 December 2010.

Objective	To perform Radio Testing to determine the Equipment Under Test's (EUT's) compliance with the Test Specification, for the series of tests carried out.
Manufacturer	DICKEY-John, Corp.
Product Name	RVSIII
Model Number(s)	46783
FCC ID Number	B7DJCRVSIII
IC Number	5682A-DJCRVSIII
Serial Number(s)	N/A
Number of Samples Tested	1
Test Specification/Issue/Date	• FCC Part 15 Subpart C §15.245 (October 1, 2013). • RSS-210 – License-exempt Radio Apparatus (All Frequency Bands): Category I Equipment (Issue 8, December 2010). • RSS-Gen - General Requirements and Information for the Certification of Radio Apparatus (Issue 3, December 2010).
Start of Test	September 4, 2015
Finish of Test	September 25, 2015
Name of Engineer(s)	Nikolay Shtin
Related Document(s)	None. Supporting documents for EUT certification are separate exhibits.



1.2 BRIEF SUMMARY OF RESULTS

A brief summary of the tests carried out in accordance with FCC Part 15 Subpart C §15.245 with cross-reference to the corresponding IC RSS standard is shown below.

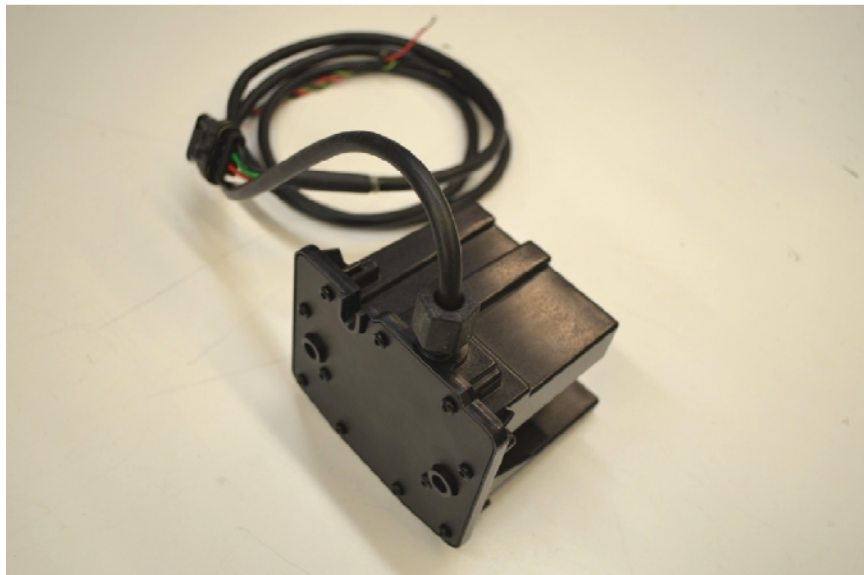
Section	Spec Clause	RSS	Test Description	Result	Comments/Base Standard
2.1		RSS-Gen 4.6.1	99% Emission Bandwidth	*N/A	
2.2	§15.245(b)	RSS-210 A7.1(1)	Field Strength Limits for Fundamental Emissions	Compliant	
2.3	§15.245(b)(1)	RSS-210 A7.1(2)(3)	Harmonic Emissions	Compliant	
2.4	§15.245(b)(3)	RSS-210 A7.1(4)	Spurious Radiated Emissions	Compliant	

*N/A EUT operates in CW mode

1.3 PRODUCT INFORMATION

1.3.1 Technical Description

The Equipment Under Test (EUT) was a DICKEY-John, Corp. Radar Velocity Sensor, Model 46783 as shown in the photograph below. The EUT is a third-generation ground speed sensor. The EUT operates on 24.125 GHz nominal frequency in the 24.075-24.175 GHz band.



Equipment Under Test



1.3.2 EUT General Description

EUT Description	Radar Velocity Sensor
Product Name	RVS III Radar Sensor
Model Number(s)	46783
Rated Voltage	12.0 VDC
Output Power	125.2 dBμV/m @ 3 meters
Frequency Range	24125 MHz in the 24075 MHz to 24175 MHz Band
Number of Operating Frequencies	1
Channels Verified	24125 MHz
Antenna Type (used during evaluation)	Integral (Complies with Part 15.203 requirements)

1.3.3 Antenna Details

Manufacturer	Dickey-john Corp.
Antenna Type	Planar array antenna
Antenna Gain	23 dBi
EUT Antenna Connector	N/A .
Maximum Dimensions	3.4" H x 3.325" W x 0.02" T

1.4 EUT TEST CONFIGURATION

1.4.1 Test Configuration Description

Test Configurations	Description
Default	Radiated only configuration. EUT transmitting through the integral antenna.

1.4.2 EUT Exercise Software

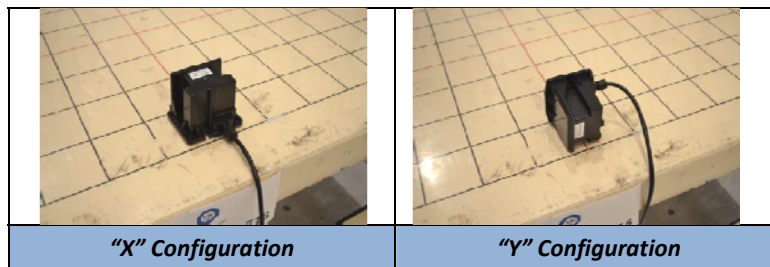
No test firmware is required.

1.4.3 Support Equipment and I/O cables

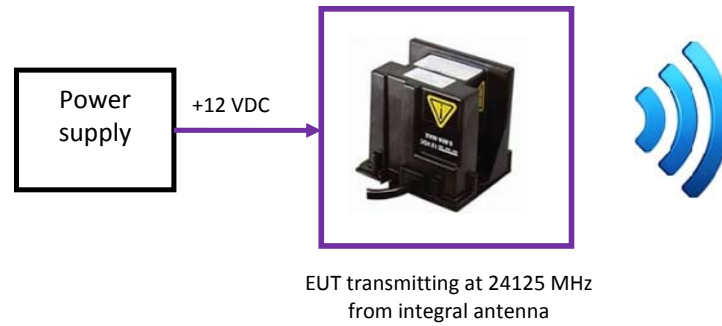
No support equipment is required.

1.4.4 Worst Case Configuration

For radiated measurements X and Y orientations were verified. Identical result obtained between these two orientations Verification performed using X orientation.



1.4.5 Simplified Test Configuration Diagram



For Illustration Purpose Only
Image presented may not represent the
actual EUT or support equipment



1.5 DEVIATIONS FROM THE STANDARD

No deviations from the applicable test standards or test plan were made during testing.

1.6 MODIFICATION RECORD

Description of Modification	Modification Fitted By	Date Modification Fitted
Serial Number N/A		
N/A		

The table above details modifications made to the EUT during the test programme. The modifications incorporated during each test (if relevant) are recorded on the appropriate test pages.

1.7 TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.4-2009, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

For conducted and radiated emissions the equipment under test (EUT) was configured to measure its highest possible emission level. This level was based on the maximized cable configuration from exploratory testing per ANSI C63.4-2009. The test modes were adapted according to the Operating Instructions provided by the manufacturer/client.

1.8 TEST FACILITY LOCATION

1.8.1 TÜV SÜD America Inc. (Mira Mesa)

10040 Mesa Rim Road, San Diego, CA 92121-2912 (32.901268,-117.177681). Phone: 858 678 1400 FAX: 858-546 0364

1.8.2 TÜV SÜD America Inc. (Rancho Bernardo)

Sony Electronics Inc., Building #8 16530 Via Esprillo, San Diego, CA 92127-1708 (33.018644,-117.092409). Phone: 858 942 5542 FAX: 858-546 0364



1.9 TEST FACILITY REGISTRATION

1.9.1 FCC – Registration No.: US1146

TUV SUD America Inc. (San Diego), is an accredited test facility with the site description report on file and has met all the requirements specified in §2.498 of the FCC rules. The acceptance letter from the FCC is maintained in our files and the Registration is US1146.

1.9.2 Industry Canada (IC) Registration No.: 3067A

The 10m Semi-anechoic chamber of TUV SUD America Inc. (San Diego) has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No. 3067A.



SECTION 2

TEST DETAILS

Radio Testing of the
DICKY-John, Corp.
RVS III Radar Sensor
Model: 46783



2.1 FIELD STRENGTH LIMITS FOR FUNDAMENTAL AND HARMONICS

2.1.1 Specification Reference

Part 15 Subpart C §15.245(a)

2.1.2 Standard Applicable

(b) The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (millivolts/meter)
902–928 MHz	500	1.6
2400–2483.5 MHz	500	1.6
5725–5875 MHz	500	1.6
10500–10550 MHz	2500	25
24075–24175 MHz	2500	25

(1) Regardless of the limits shown in the above table, harmonic emissions in the restricted bands below 17.7 GHz, as specified in § 15.205, shall not exceed the field strength limits shown in § 15.209. Harmonic emissions in the restricted bands at and above 17.7 GHz shall not exceed the following field strength limits:

(i) For the second and third harmonics of field disturbance sensors operating in the 24075–24175 MHz band and for other field disturbance sensors designed for use only within a building or to open building doors, 25.0 mV/m.

(ii) For all other field disturbance sensors, 7.5 mV/m.

(iii) Field disturbance sensors designed to be used in motor vehicles or aircraft must include features to prevent continuous operation unless their emissions in the restricted bands, other than the second and third harmonics from devices operating in the 24075–24175 MHz band, fully comply with the limits given in § 15.209. Continuous operation of field disturbance sensors designed to be used in farm equipment, vehicles such as forklifts that are intended primarily for use indoors or for very specialized operations, or railroad locomotives, railroad cars and other equipment which travels on fixed tracks is permitted. A field disturbance sensor will be considered not to be operating in a continuous mode if its operation is limited to specific activities of limited duration (e.g., putting a vehicle into reverse gear, activating a turn signal, etc.).

2.1.3 Equipment Under Test and Modification State

Serial No: N/A / Default Test Configuration

2.1.4 Date of Test/Initial of test personnel who performed the test

September 4 and September 25, 2015/NS

2.1.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.



2.1.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility

Ambient Temperature 23.0°C
 Relative Humidity 20.5%
 ATM Pressure 99.7 kPa

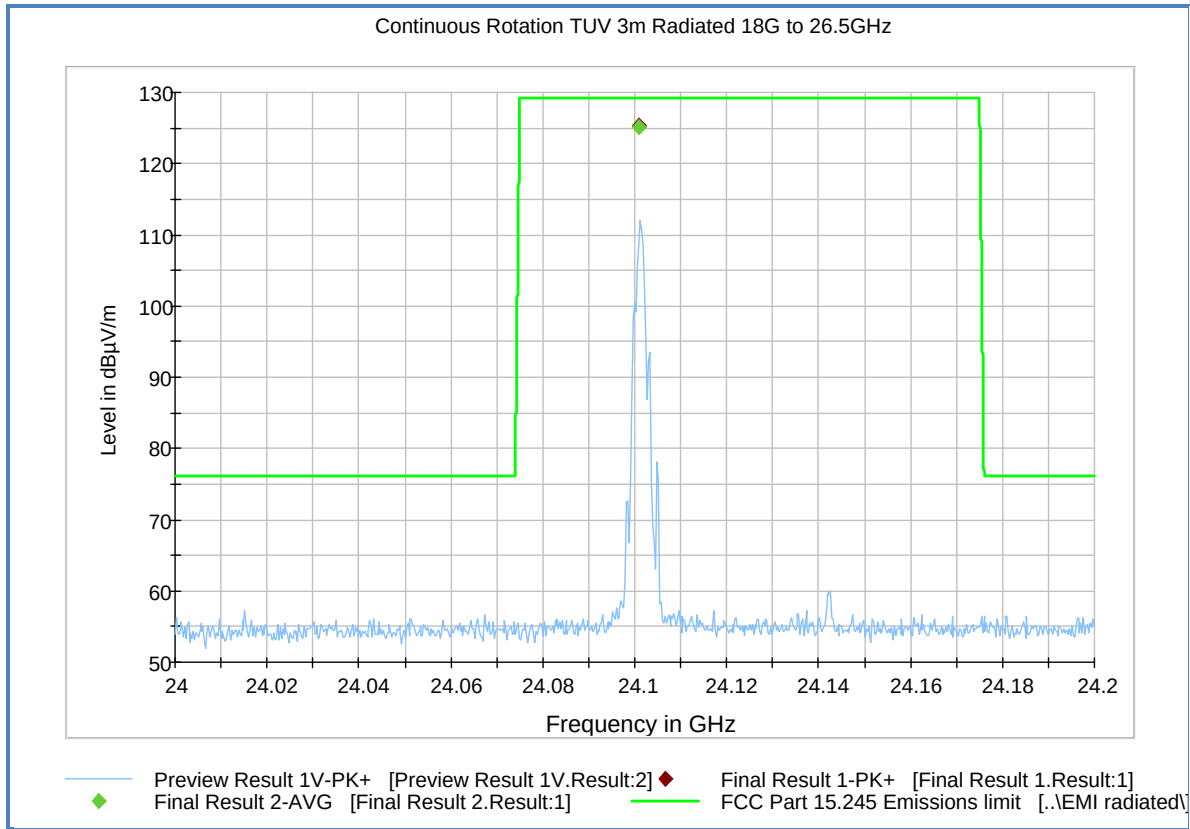
2.1.7 Additional Observations

- This is a radiated test. The spectrum was searched up to 4th harmonic (96.7 GHz), There are no harmonic emissions observed above 50 GHz (only 2nd Harmonic presented).
- Test distance of 3 m was used for the fundamental emissions measurement. The 2nd and 3rd harmonics emissions were evaluated at 0.4 m distance. For the 4th harmonic measurements, test distance was reduced to 0.2 m to assure that the noise floor is at least 10 dB below the applicable limit.
- Corrections factors of 17.5 dB and 23.5 dB were used to extrapolate the field strength measured at 0.4 metres and 0.2 meters to the 3 meters distance as specified in § 15.31.
- Fundamental emission measurement was done using EMC32 V8.53 automated software. Reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only. See Section 2.1.8 for sample computation.

2.1.8 Sample Computation (Radiated Emission)

Measuring equipment raw measurement (dbµV) @ 24100.8666 MHz			106.4
Correction Factor (dB)	Asset# 8849 (cable)	11.6	18.8
	Asset# 115T1 (preamplifier)	-33.2	
	Asset# 1151 (antenna)	40.4	
Reported Peak Final Measurement (dbµV/m) @ 24100.8666 MHz			125.2

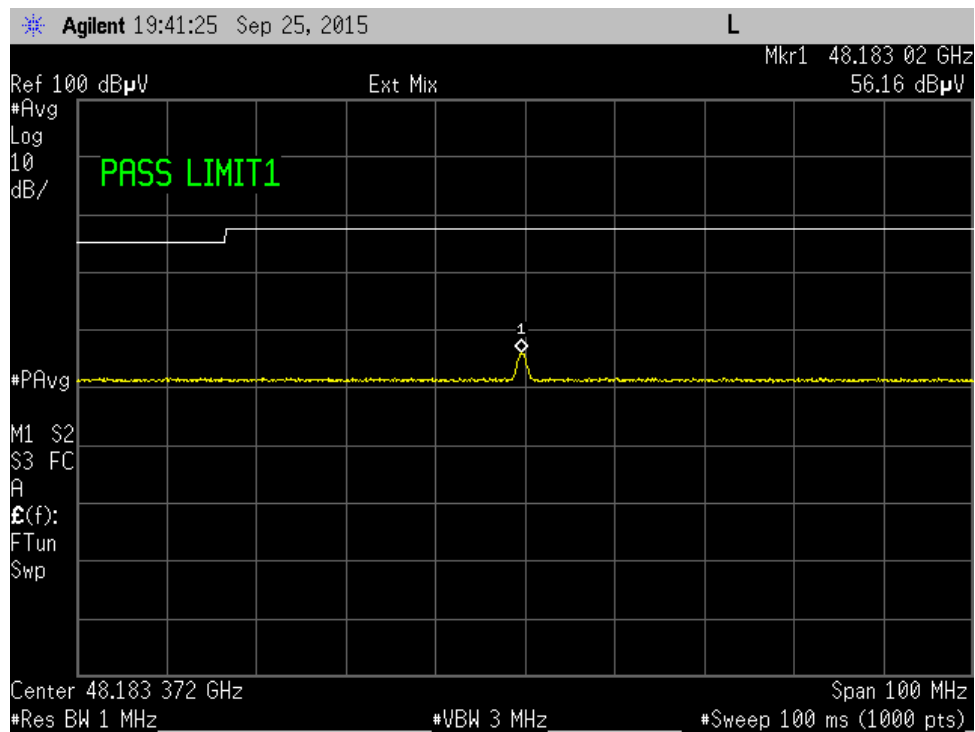
2.1.9 Test Results (Fundamental)



Average Data

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
24100.8666	125.2	1000.0	1000.000	100.0	H	1.0	18.8	4.0	129.2

2.1.10 Test Results (Harmonics)



2nd Harmonic



2.2 SPURIOUS RADIATED EMISSIONS

2.2.1 Specification Reference

Part 15 Subpart C §15.245(3)

2.2.2 Standard Applicable

(3) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.

2.2.3 Equipment Under Test and Modification State

Serial No: N/A / Default Test Configuration

2.2.4 Date of Test/Initial of test personnel who performed the test

September 4 and September 25, 2015/NS

2.2.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.2.6 Environmental Conditions/ Test Location

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility

Ambient Temperature	23.0°C
Relative Humidity	50.5%
ATM Pressure	99.1 kPa

2.2.7 Additional Observations

- This is a radiated test. The spectrum was searched from 30MHz to 100 GHz. There are no significant spurious emissions observed.
- Test distance of 3 m was used for the spurious emissions measurement below 40 GHz. The emissions in the range from 40 GHz to 75 GHz were evaluated at 0.4 m distance. For the measurements above 75 GHz, the test distance was reduced to 0.2 m to assure that the noise floor is at least 10 dB below the applicable limit.
- Corrections factors of 17.5 dB and 23.5 dB were used to extrapolate the field strengths measured at 0.4 metres and 0.2 meters to the 3 meters distance as specified in § 15.31.
- All the emissions below 40 GHz comply with the general radiated emission limits of §15.209.
- Measurement was done using EMC32 V8.53 automated software. Reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only. See Section 2.5.1 for sample computation.



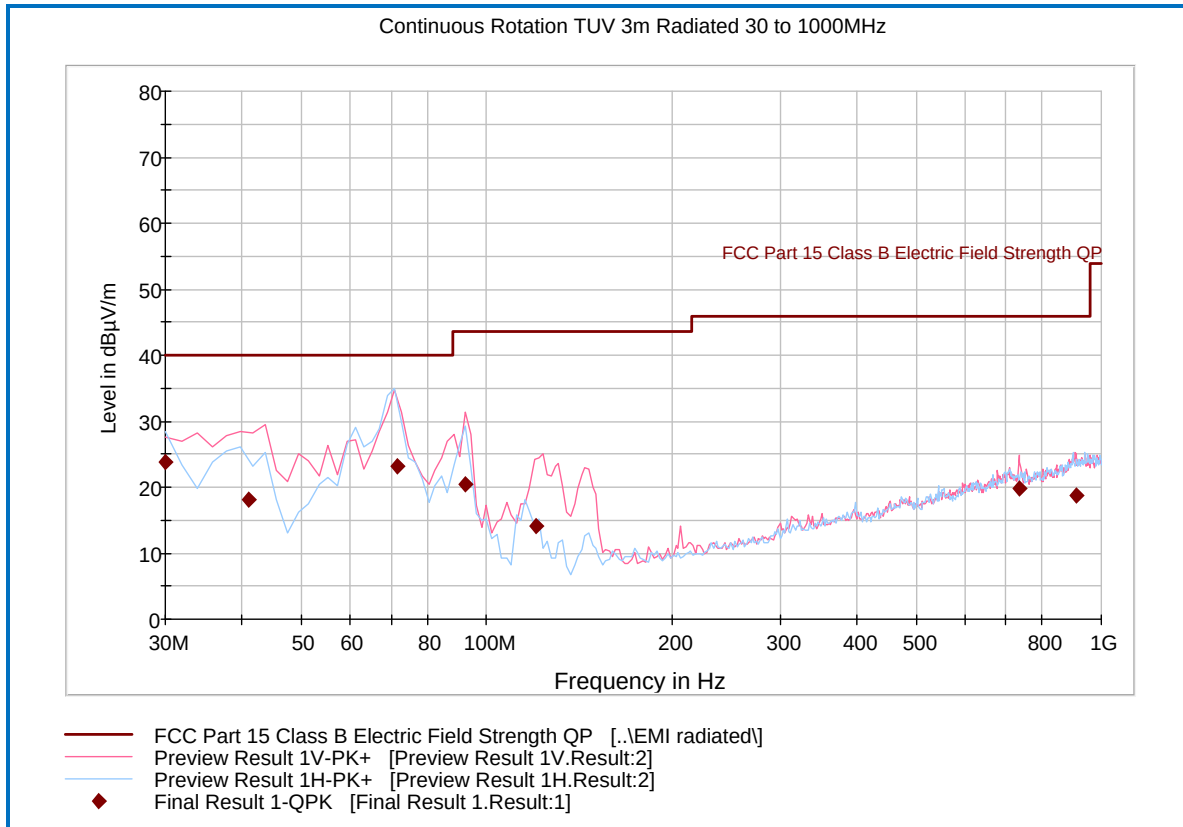
2.2.1 Sample Computation (Radiated Emission)

Measuring equipment raw measurement (db μ V) @ 30 MHz			24.4
Correction Factor (dB)	Asset# 1066 (cable)	0.3	-12.6
	Asset# 1172 (cable)	0.3	
	Asset# 1016 (preamplifier)	-30.7	
	Asset# 1175(cable)	0.3	
	Asset# 1002 (antenna)	17.2	
Reported QuasiPeak Final Measurement (db μ V/m) @ 30MHz			11.8

2.2.2 Test Results

See attached plots.

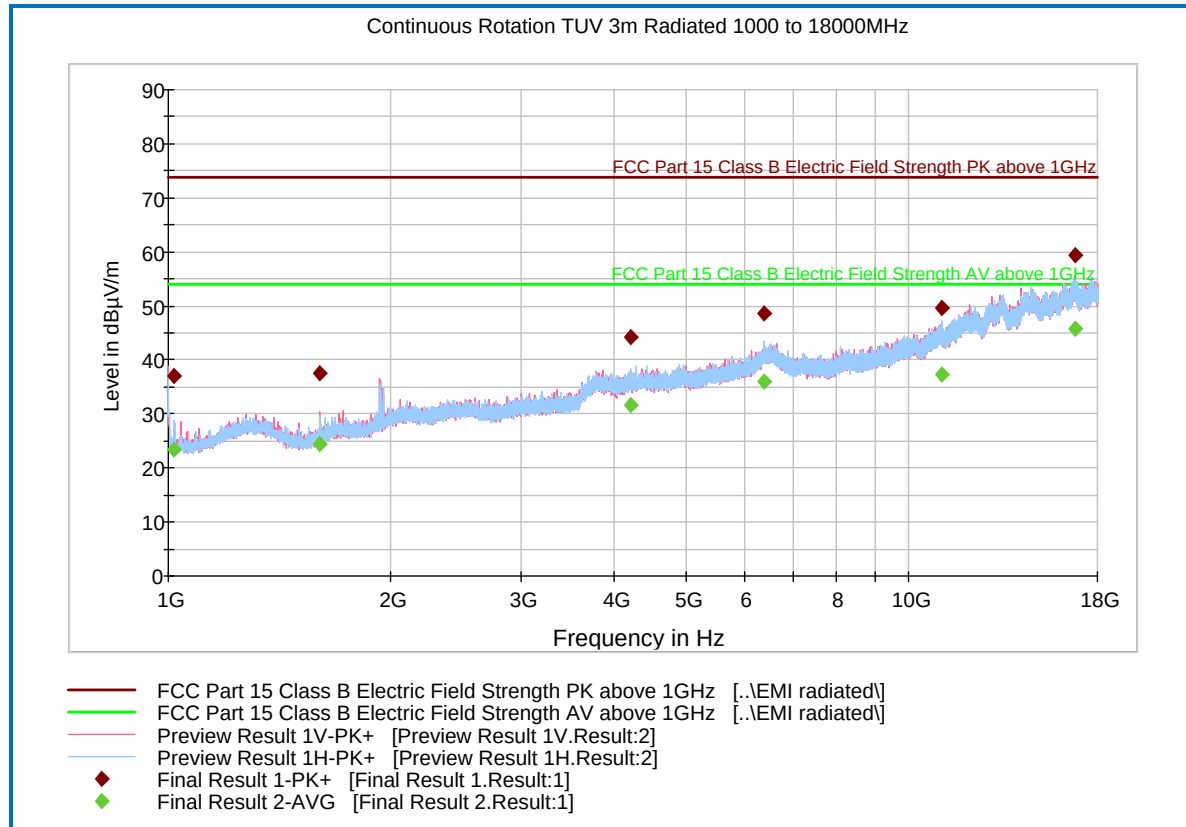
2.2.3 Test Results Below 1GHz



Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
30.040000	23.7	1000.0	120.000	116.0	H	153.0	-11.6	16.3	40.0
41.087214	18.1	1000.0	120.000	105.0	V	-3.0	-17.2	21.9	40.0
71.541643	23.2	1000.0	120.000	300.0	H	11.0	-22.4	16.8	40.0
92.204409	20.3	1000.0	120.000	105.0	V	-11.0	-20.4	23.2	43.5
120.306613	14.0	1000.0	120.000	110.0	V	-9.0	-20.4	29.5	43.5
736.191263	19.8	1000.0	120.000	100.0	V	80.0	-1.7	26.2	46.0
908.453387	18.8	1000.0	120.000	150.0	V	106.0	1.0	27.2	46.0

2.2.4 Test Results from 1 GHz to 18 GHz



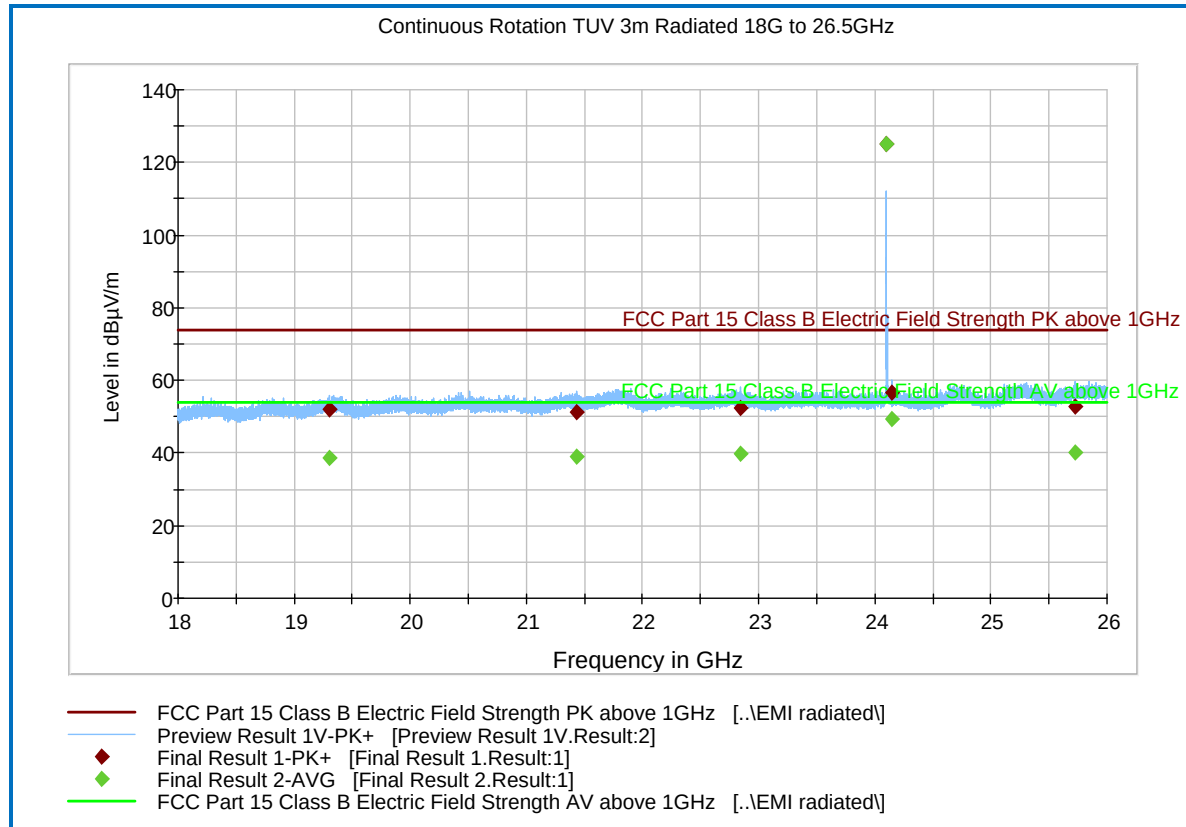
Peak Data

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1017.60000	37.0	1000.0	1000.000	246.3	H	152.0	-7.4	36.9	73.9
1599.50000	37.4	1000.0	1000.000	123.7	V	78.0	-5.6	36.5	73.9
4213.60000	44.3	1000.0	1000.000	198.5	H	238.0	5.4	29.6	73.9
6384.26666	48.6	1000.0	1000.000	407.6	H	20.0	11.4	25.3	73.9
11095.1666	49.6	1000.0	1000.000	103.7	H	57.0	15.0	24.3	73.9
16791.1000	59.3	1000.0	1000.000	101.7	V	275.0	24.7	14.6	73.9

Average Data

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1017.60000	23.4	1000.0	1000.000	246.3	H	152.0	-7.4	30.5	53.9
1599.50000	24.5	1000.0	1000.000	123.7	V	78.0	-5.6	29.4	53.9
4213.60000	31.7	1000.0	1000.000	198.5	H	238.0	5.4	22.2	53.9
6384.26666	36.0	1000.0	1000.000	407.6	H	20.0	11.4	17.9	53.9
11095.1666	37.2	1000.0	1000.000	103.7	H	57.0	15.0	16.7	53.9
16791.1000	45.8	1000.0	1000.000	101.7	V	275.0	24.7	8.1	53.9

2.2.5 Test Results from 18 GHz to 26 GHz



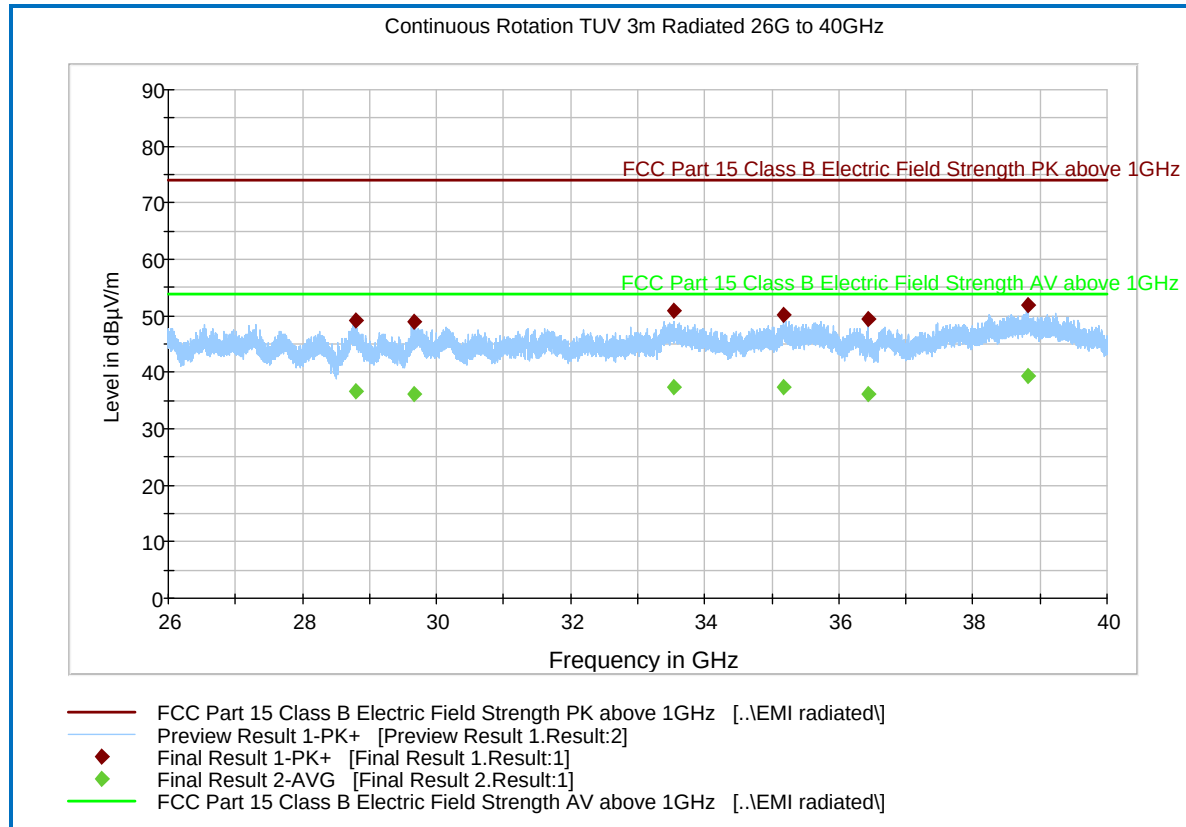
Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
19298.6666	52.2	1000.0	1000.000	100.0	H	286.0	16.9	21.7	73.9
21434.8666	51.4	1000.0	1000.000	100.0	H	40.0	18.2	22.5	73.9
22847.3333	52.5	1000.0	1000.000	100.0	H	177.0	18.6	21.4	73.9
24100.8666	125.2	1000.0	1000.000	100.0	H	1.0	18.8	Fundamental	
24141.8000	56.6	1000.0	1000.000	100.0	H	0.0	18.7	17.3	73.9
25724.0666	52.9	1000.0	1000.000	100.0	H	-10.0	19.9	21.0	73.9

Average Data

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
19298.6666	38.6	1000.0	1000.000	100.0	H	286.0	16.9	15.3	53.9
21434.8666	38.9	1000.0	1000.000	100.0	H	40.0	18.2	15.0	53.9
22847.3333	39.7	1000.0	1000.000	100.0	H	177.0	18.6	14.2	53.9
24100.8666	125.2	1000.0	1000.000	100.0	H	1.0	18.8	Fundamental	
24141.8000	49.4	1000.0	1000.000	100.0	H	0.0	18.7	4.5	53.9
25724.0666	40.0	1000.0	1000.000	100.0	H	-10.0	19.9	13.9	53.9

2.2.6 Test Results from 26 GHz to 40 GHz



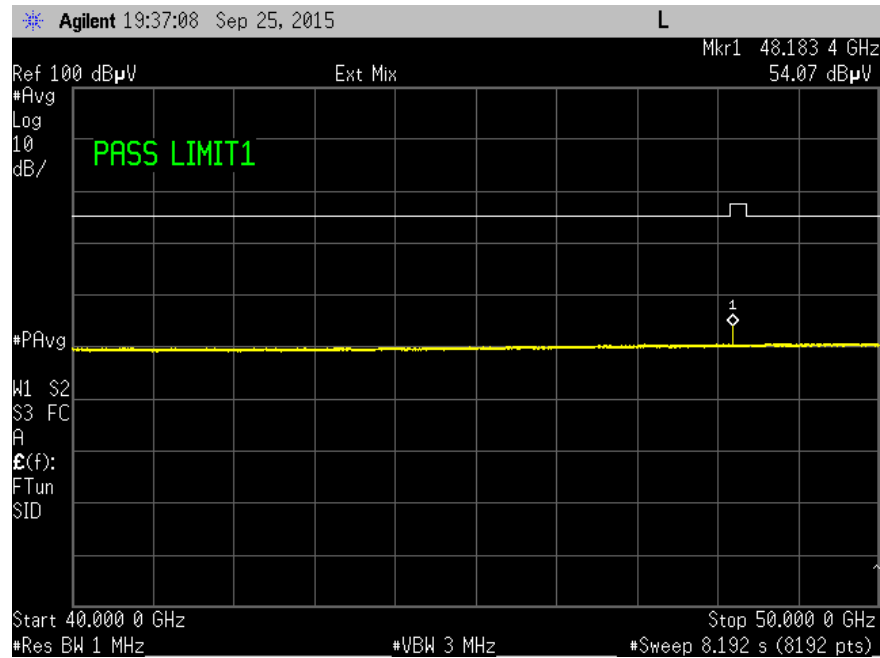
Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
28798.8666	49.3	1000.0	1000.000	100.7	H	314.0	7.0	24.6	73.9
29666.5333	49.0	1000.0	1000.000	100.7	H	186.0	8.1	24.9	73.9
33542.5333	50.9	1000.0	1000.000	100.7	H	304.0	9.9	23.0	73.9
35170.0666	50.1	1000.0	1000.000	100.7	H	156.0	10.6	23.8	73.9
36443.8000	49.3	1000.0	1000.000	100.7	H	211.0	10.1	24.6	73.9
38826.0666	51.8	1000.0	1000.000	100.7	H	11.0	13.4	22.1	73.9

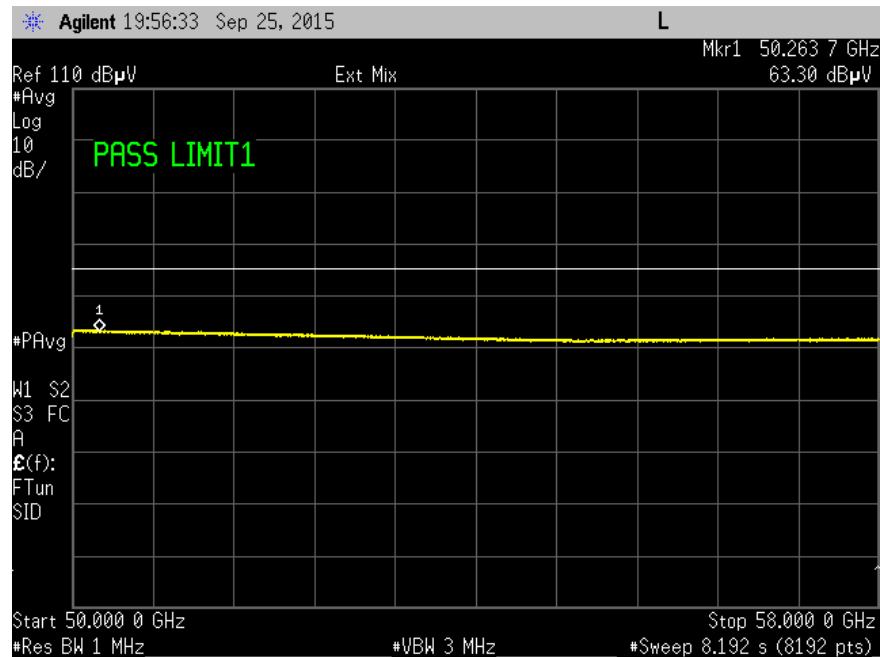
Average Data

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
28798.8666	36.6	1000.0	1000.000	100.7	H	314.0	7.0	17.3	53.9
29666.5333	36.2	1000.0	1000.000	100.7	H	186.0	8.1	17.7	53.9
33542.5333	37.3	1000.0	1000.000	100.7	H	304.0	9.9	16.6	53.9
35170.0666	37.4	1000.0	1000.000	100.7	H	156.0	10.6	16.5	53.9
36443.8000	36.3	1000.0	1000.000	100.7	H	211.0	10.1	17.6	53.9
38826.0666	39.2	1000.0	1000.000	100.7	H	11.0	13.4	14.7	53.9

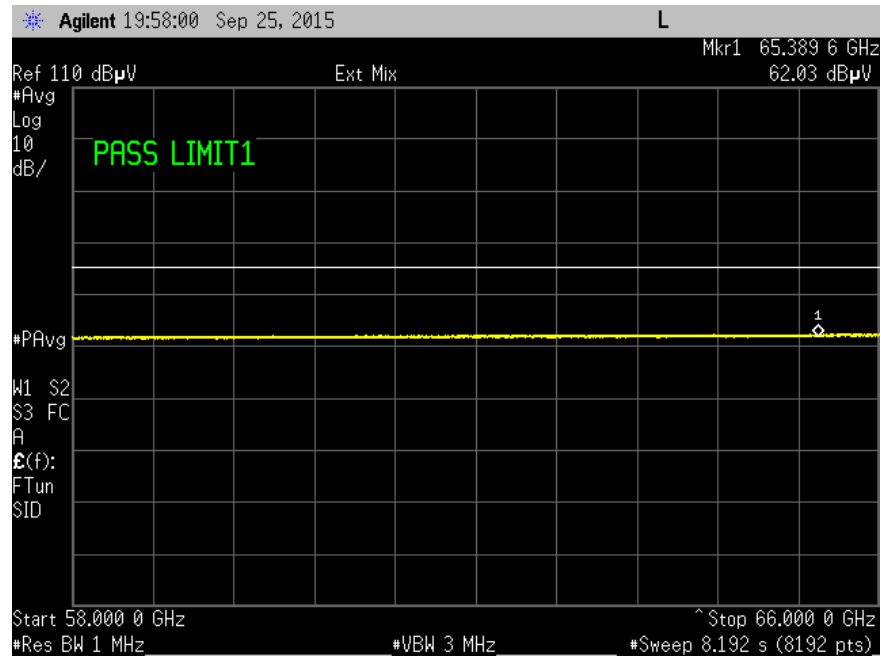
2.2.7 Test Results from 40 GHz to 110 GHz



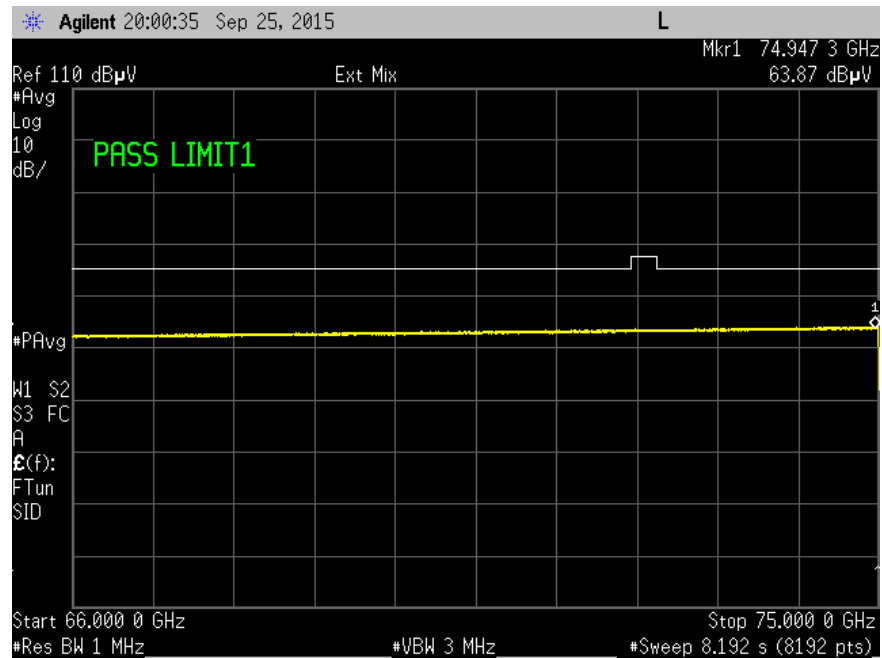
Spurious emissions from 40 GHz to 50 GHz



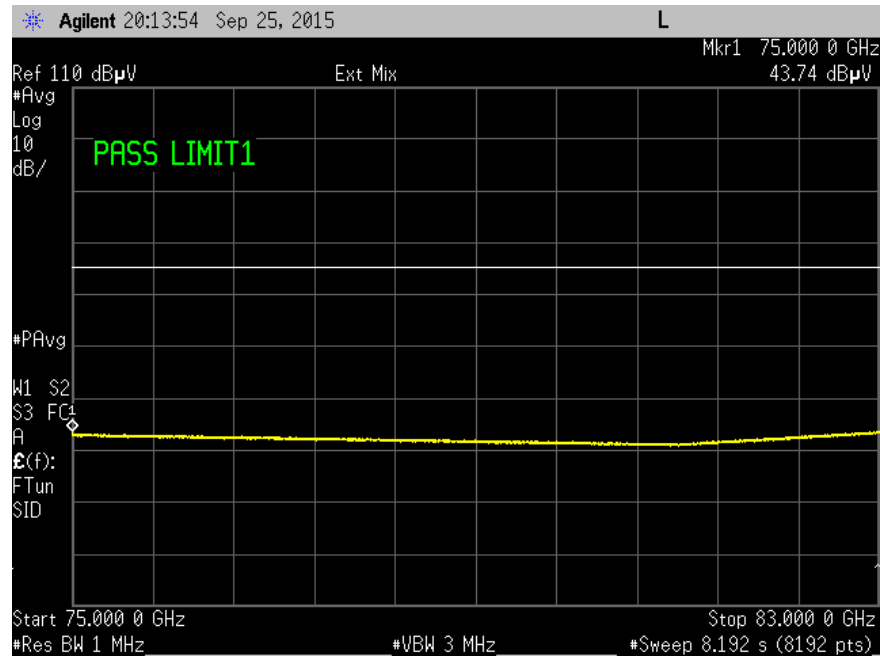
Spurious emissions from 50 GHz to 58 GHz



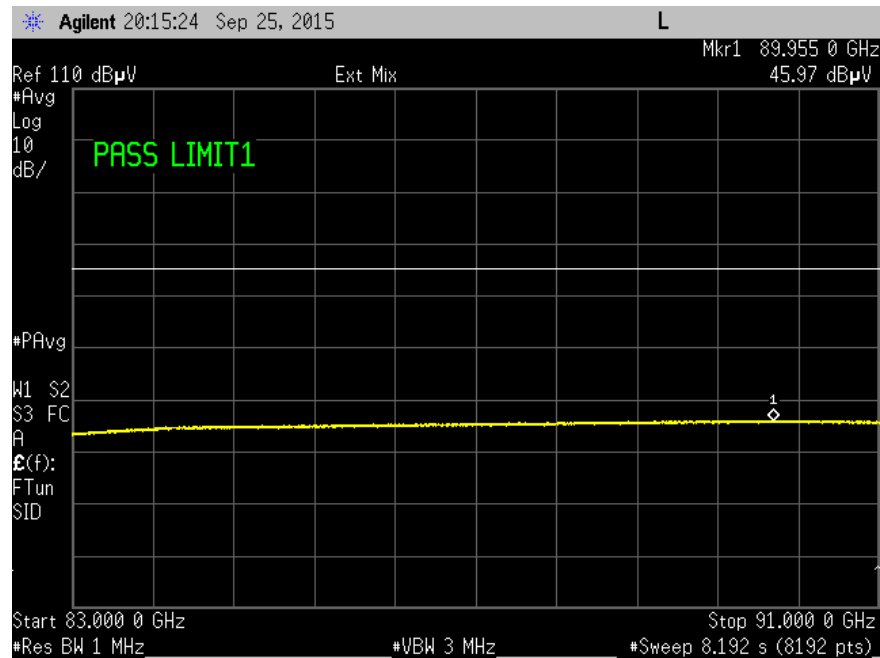
Spurious emissions from 58 GHz to 66 GHz



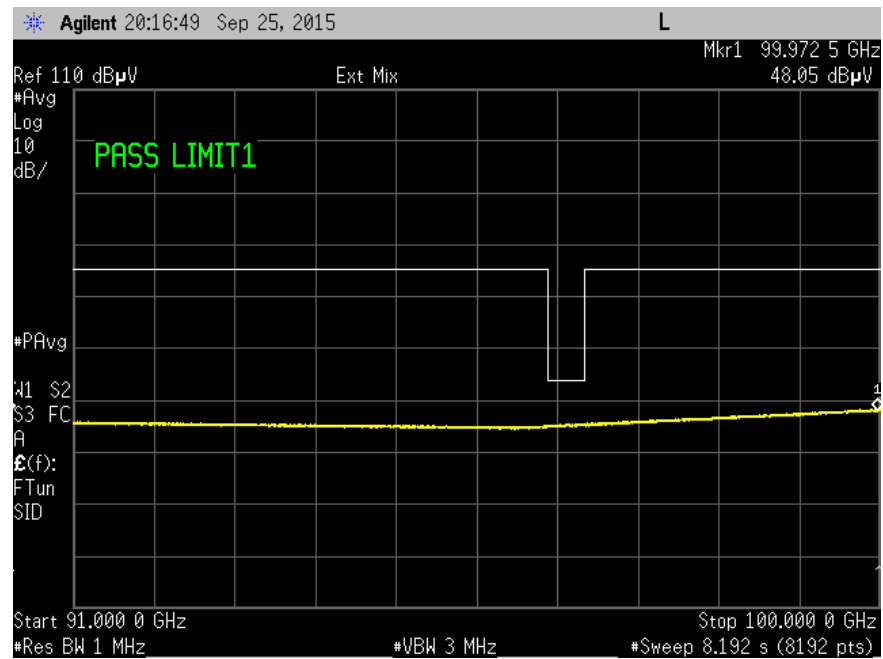
Spurious emissions from 66 GHz to 75 GHz



Spurious emissions from 75 GHz to 83 GHz



Spurious emissions from 83 GHz to 91 GHz



Spurious emissions from 91 GHz to 100 GHz



SECTION 3

TEST EQUIPMENT USED



3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

ID Number (SDGE/SDRB)	Test Equipment	Type	Serial Number	Manufacturer	Cal Date	Cal Due Date
Radiated Test Setup						
1003	Signal Generator	SMR-40	1104.0002.40	Rhode & Schwarz	04/29/15	04/29/16
7611	Signal/Spectrum Analyzer	FSW26	102017	Rhode & Schwarz	03/25/15	03/25/16
1002	Bilog Antenna	3142C	00058717	ETS-Lindgren	01/30/14	01/30/16
1016	Pre-amplifier	PAM-0202	187	PAM	12/10/14	12/10/15
1051	Double-ridged waveguide horn antenna	3115	9408-4329	EMCO	02/28/14	02/28/16
7618	Horn antenna (18-26.5 GHz)	3160-09	012054-004	ETS - Lindgren	07/10/2015	07/10/2017
9002	Horn antenna (26-40 GHz)	HO28S	102	Custom Microwaves	07/10/2015	07/10/2017
9003	Horn antenna (40-60 GHz)	HO19R	103	Custom Microwaves	Verified	
9004	Horn antenna (50-75 GHz)	HO15R	104	Custom Microwaves	Verified	
9005	Horn antenna (75-110 GHz)	HO10R	105	Custom Microwaves	Verified	
1049	EMI Test Receiver	ESU	100133	Rhode & Schwarz	03/11/15	03/11/16
8628	Pre-amplifier	QLJ 01182835-JO	8986002	QuinStar Technologies Inc.	03/20/15	03/20/16
1151	Pre-amplifier (18-26.5 GHz)	TS-PR26	3545.7014.03	Rhode & Schwarz	Verified by 1003 and 7611	
n/a	Pre-amplifier (18-40 GHz)	SLKka-30-6	15G27	Spacek Labs	Verified by 1003 and 7611	
n/a	Pre-amplifier (75-110 GHz)	FLNA-10-0005	FTL10839	Farran Technology Ltd.	Verified	
6823	Spectrum Analyzer	E4446A	US44300486	Keysight Technologies	10/11/14	10/11/15
7555	Harmonics mixer	11970U	n/a	Keysight Technologies	Verified	
7556	Harmonics mixer	11970V	n/a	Keysight Technologies	Verified	
7557	Harmonics mixer	11970W	n/a	Keysight Technologies	Verified	
1153	High-frequency cable	SucoFlex 100 SX	N/A	Suhner	Verified by 1003 and 7611	
8543	High-frequency cable	Micropore 19057793	N/A	United Microwave Products	Verified by 1003 and 7611	
8849	High-frequency cable	SAC-26G-6.1	363	A.H.Systems	01/14/15	01/14/16
Miscellaneous						
6792	Multimeter	3478A	2911A70964	Hewlett Packard	08/14/15	08/14/16
11312	Mini Environmental Quality Meter	850027	CF099-56010- 340	Sper Scientific	04/09/15	04/09/16
	Test Software	EMC32	V8.53	Rhode & Schwarz	N/A	

3.2 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:

3.2.1 Radiated Emission Measurements (Below 1GHz)

Contribution		Probability Distribution Type	Probability Distribution x_i	Standard Uncertainty $u(x_i)$	$[u(x_i)]^2$
1	Receiver/Spectrum Analyzer	Rectangular	0.45	0.26	0.07
2	Cables	Rectangular	0.50	0.29	0.08
3	Preamp	Rectangular	0.50	0.29	0.08
4	Antenna	Rectangular	0.75	0.43	0.19
5	Site	Rectangular	3.55	2.05	4.20
6	EUT Setup	Rectangular	1.00	0.58	0.33
Combined Uncertainty (u_c):					2.23
Coverage Factor (k):					2
Expanded Uncertainty:					4.45

3.2.2 Radiated Emission Measurements (Above 1GHz)

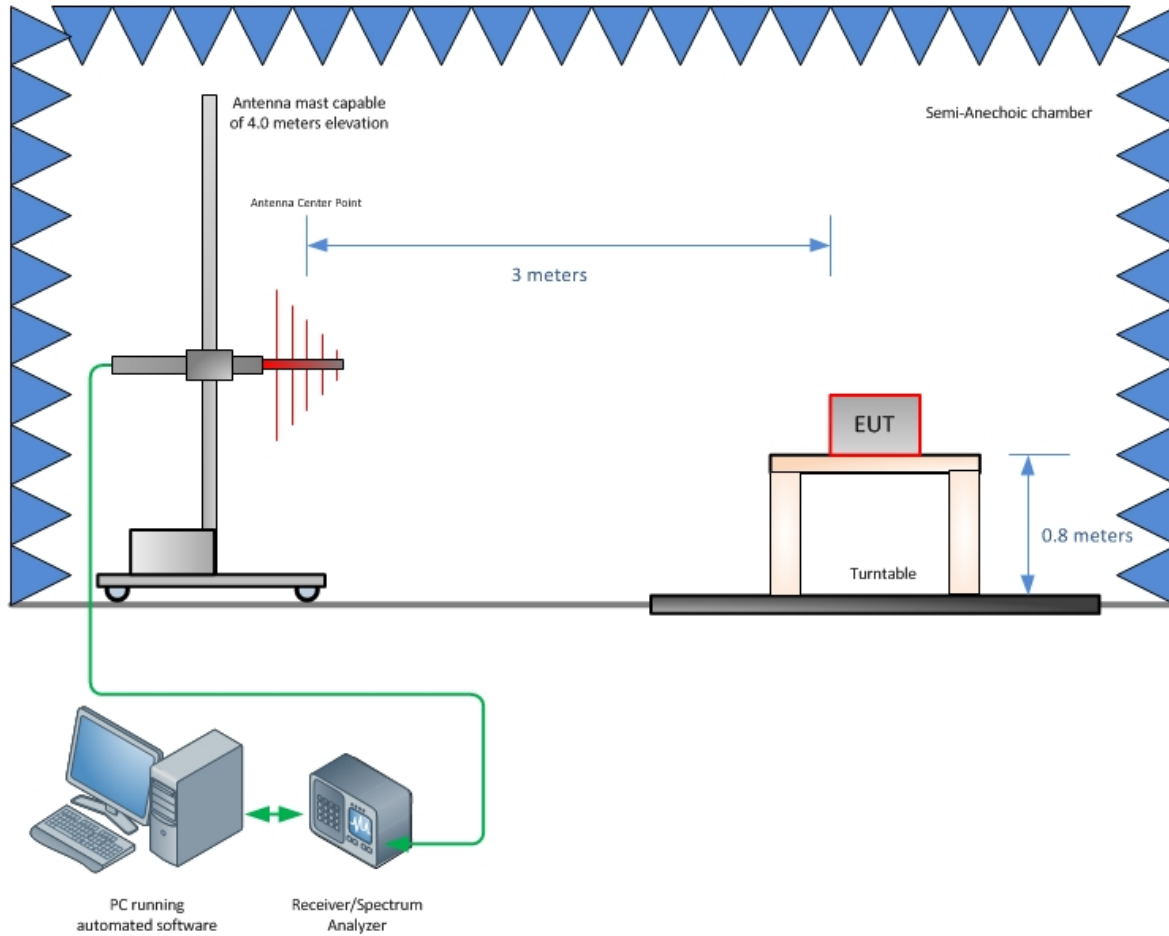
Contribution		Probability Distribution Type	Probability Distribution x_i	Standard Uncertainty $u(x_i)$	$[u(x_i)]^2$
1	Receiver/Spectrum Analyzer	Rectangular	0.57	0.33	0.11
2	Cables	Rectangular	0.70	0.40	0.16
3	Preamp	Rectangular	0.50	0.29	0.08
4	Antenna	Rectangular	0.37	0.21	0.05
5	Site	Rectangular	3.55	2.05	4.20
6	EUT Setup	Rectangular	1.00	0.58	0.33
Combined Uncertainty (u_c):					2.22
Coverage Factor (k):					2
Expanded Uncertainty:					4.44



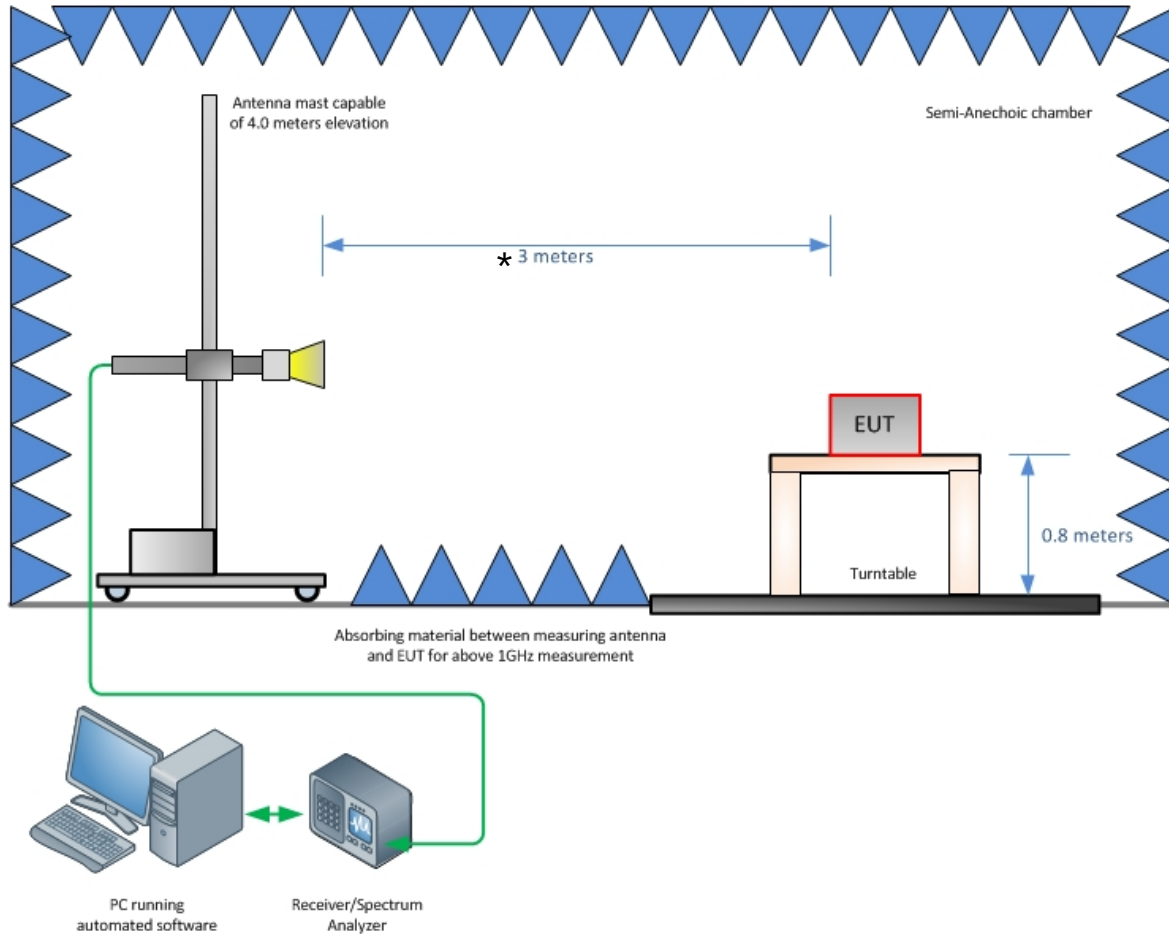
SECTION 4

DIAGRAM OF TEST SETUP

4.1 RADIATED EMISSION TEST SETUP (BELOW 1GHZ)



4.2 RADIATED EMISSION TEST SETUP (ABOVE 1GHZ)



*A test distance of 3 m was used for measurements below 40 GHz. The emissions in the range from 40 GHz to 75 GHz were evaluated at 0.4 m distance. For the measurements above 75 GHz, the test distance was reduced to 0.2 m to assure that the noise floor is at least 10 dB below the applicable limit.



SECTION 5

ACCREDITATION, DISCLAIMERS AND COPYRIGHT



5.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT

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