FCC / ISED Test Report

For

SiXSHOCK / SiXFLOOD

Report #: 47216

FCC ID: CFS8DL6SHK
IC ID: 573F-6SHK

Report Completion Date: 2018-02-22

Prepared by and for:
Honeywell International Inc.
2 Corporate Center Dr.
Suite 100 PO Box 9040
Melville, NY 11747

Testing
NVLAP Lab Code: 600110

Document Introduction

Honeywell tested the above equipment in accordance with the requirements set forth in the listed standards. All indications of Pass/Fail in the report are opinions expressed by Honeywell based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

This document is a record of the FCC/ISED Test Report for Honeywell products. It demonstrates the data required to be analyzed to certify a product according to the requirements of the FCC & ISED.

The results in the report reflect only the model of the items under test unless noted otherwise. This document may not be altered or revised in any way unless done so my Honeywell and all revisions are duly noted in the revisions section. Any alterations of this document not carried out by Honeywell will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Test Report Revision History

Revision	Prepared By	Reviewed By	Revision Detail	Release Date
---	M. Antola	A. Roussin	Original Release	2018-02-22
A	M. Antola	A. Roussin	Misc. updates to page 25 & 46 for clarification. Removed Radiated Emissions (Unintentional) section	2018-02-26

Report Authorization

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Contents

Applicable Test Standards/Limits

Test Standards/Limits	Result	Dates Tested
ANSI C63.4: 2014	Compliant	1/22/18 – 2/21/18
ANSI C63.10: 2013	Compliant	1/22/18 – 2/21/18
ICES-003 Issue 6: 2016	Compliant	1/22/18 – 2/21/18
RSS-247, Issue 2, Section 5	Compliant	1/22/18 – 2/21/18
RSS-GEN, Issue 4	Compliant	1/22/18 – 2/21/18
CFR 47 Pt 15 Subpart B, Section 15.107/109	Compliant	1/22/18 – 2/21/18
CFR 47 Pt 15 Subpart C, Section 15.207/209	Compliant	1/22/18 – 2/21/18
CFR 47 Pt 15 Subpart C, Section 15.247	Compliant	1/22/18 – 2/21/18

Deviations from Test Methods

#	Deviation Description
0	None

Facilities and Accreditation

The test site and measurement facility used to collect data are located at 2 Corporate Center Dr., Melville, NY 11747, USA. Honeywell International is accredited by NVLAP, Laboratory Code 600110-0. The full scope of accreditation can be viewed at the NVLAP website.

Test Item Description

The SiXSHOCK is a 3-zone wireless shock/door/window sensor intended for use with Honeywell controls that support SiX™ series devices. It provides a reed switch/magnet zone, external wired contact zone, tamper switch, and built-in shock sensor zone. Typical shock protection area is 10 - 12 sq. ft. / 5 - 6 foot radius (3.05m – 3.66m / 1.52m – 1.83m radius). The coverage area can vary depending on the mounting surface

The SiXFLOOD is a wireless flood sensor with external probe (FP280) intended for use with Honeywell controls that support SiX™ series devices. The sensor sends an alarm or trouble signal (depending on zone type selected; ex. Monitor Zone or 24hr Aux) when the probe contacts water. The sensor also features a cover tamper switch.

The SiXSHOCK & SiXFLOOD are battery operated and wireless, employing a 2.4 GHz IEEE 802.15.4-compliant transceiver. The module uses the Honeywell SiX™ RF protocol to send alert messages to an existing Honeywell security system to alert to a shock event, door/window event, or zone event. In addition, the devices send a regular supervision or check-in RF message, no more often than once per hour.

The SiXSHOCK & SiXFLOOD contains two (2) printed “F” antennas, each having a gain of 2.0 dBi.

Worse-Case Configuration & Mode

Radiated emissions was performed with the EUT set to transmit at the channel with the highest output power as worst-case scenario. The EUT was tested in all three orthogonal planes in order to determine the worst-case emissions. It was determined that the Y axis orientation was the worst-case orientation. Therefore, all final radiated test was performed with the EUT in the Y axis orientation.

Since both devices utilize the identical radio, all conducted measurements were performed on a single sample. Radiated spurious testing was performed on both devices.

Test Sample Identification

Sample ID Number	Sample Serial Number	Date Received
MEL-419	Non-serialized production unit	1/19/18
MEL-420	Non-serialized production unit	1/19/18
MEL-422	Non-serialized production unit	1/24/18

Calibration & Measurement Uncertainty

- Measuring Instrument Calibration – The measuring equipment utilized to perform the tests documented in this report have been calibrated in accordance with the manufacturer's recommendations and is traceable to recognized national standards.

- Sample Calculation – Where relevant, the following sample calculation is provided:

  Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB)

  [i.e.] 37 dBuV/m = 30 dBuV + 18.5 dB/m + 0.5 dB – 12 dB

- Uncertainty - Figures are valid to a confidence level of 95%.

Test	Standard Uncertainty
Radiated Emissions (30-200MHz Horizontal)	+/- 5.05 dB
Radiated Emissions (30-200MHz Vertical)	+/- 5.28 dB
Radiated Emissions (200-1000MHz Horizontal)	+/- 10.21 dB
Radiated Emissions (200-1000MHz Vertical)	+/- 10.36 dB
Radiated Emissions (Above 1GHz)	+/- 9.70 dB
Conducted Emissions (150KHz-30MHz)	+/- 4.36 dB

Opinions / Interpretations

None

Test Summary

All tests described below are required, unless otherwise noted. Notes should be described in detail in the "Additional notes" section.

#	Test Description	Status
1	99% Bandwidth	PASS
2	6 dB Occupied Bandwidth	PASS
3	Maximum Conducted Output Power	PASS
4	Maximum Power Spectral Density	PASS
5	Band Edge / Conducted Spurious Emissions	PASS
6	Radiated Emissions (Unintentional)	PASS
7	Radiated Emissions (Intentional)	PASS

Honeywell International **Document #: 800-23065, Rev. 1.3**
2 Corporate Center Dr., Melville, NY 11747 **TEL: (516) 577-2000**

6dB Occupied Bandwidth (DTS Bandwidth)

Test Description

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 6 dB relative to the maximum level measured in the fundamental emission. Refer to KDB 558074 D01 DTS Meas Guidance v04.

Test Criteria

Reference	Limit
CFR 47 Subpart C 15.247 (a)(2) RSS-247 Section 5.2 (a)	≥ 500kHz

Test Information

Tester	Test Location	Date	Temperature (°C)	Humidity (%RH)	Pressure (mbar)	Results (P/F)
CL	RF Lab	01/26/18	22.4	15.5	1012	P

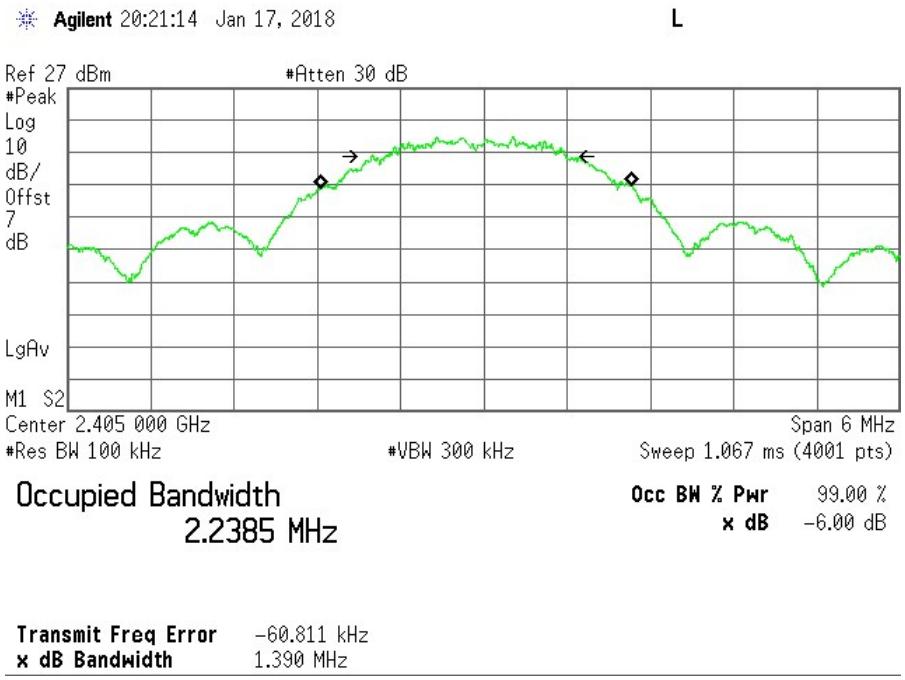
Equipment List

Instrument Type	ID #	Serial #	Manufacturer	Model	Cal Date	Cal Due Date
Spectrum Analyzer	11549	MY46187211	Agilent	E4440A	06/06/17	06/06/19
Environmental Meter	11548	A078188	Extech Instruments	SD700	04/24/17	04/24/18

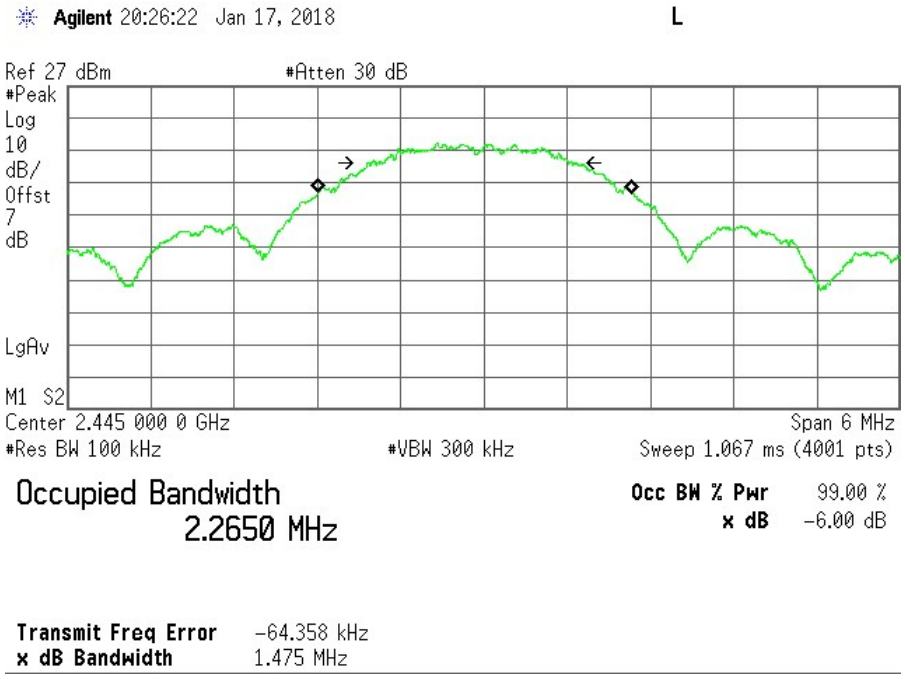
Test Results

Channel	Frequency (GHz)	6dB Bandwidth (in MHz)	
		Antenna 1	Antenna 2
Low	2405	1.390	1.281
Mid	2445	1.475	1.555
High	2475	1.574	1.565

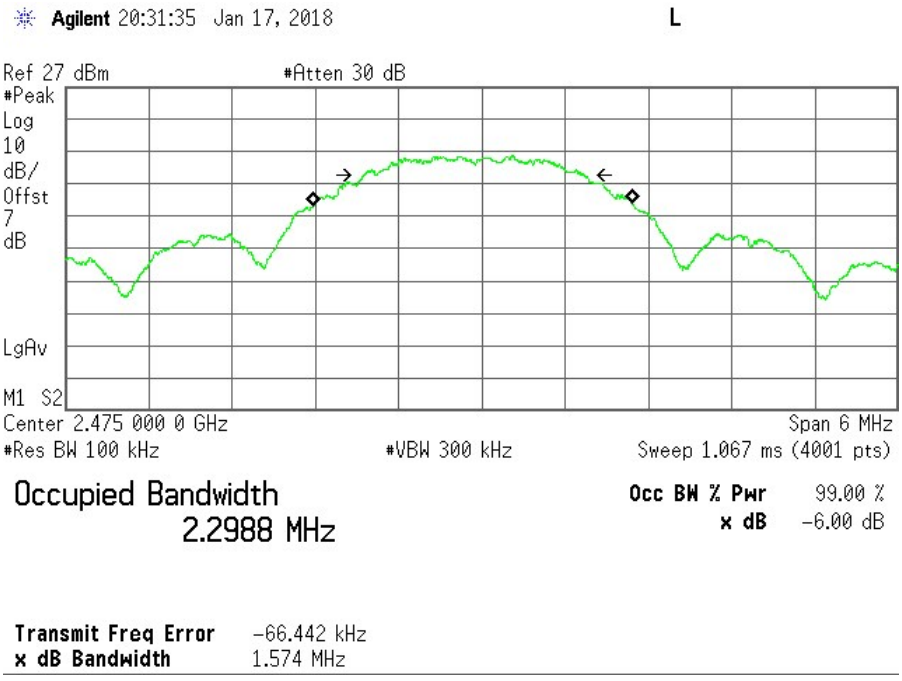
6dB Bandwidth



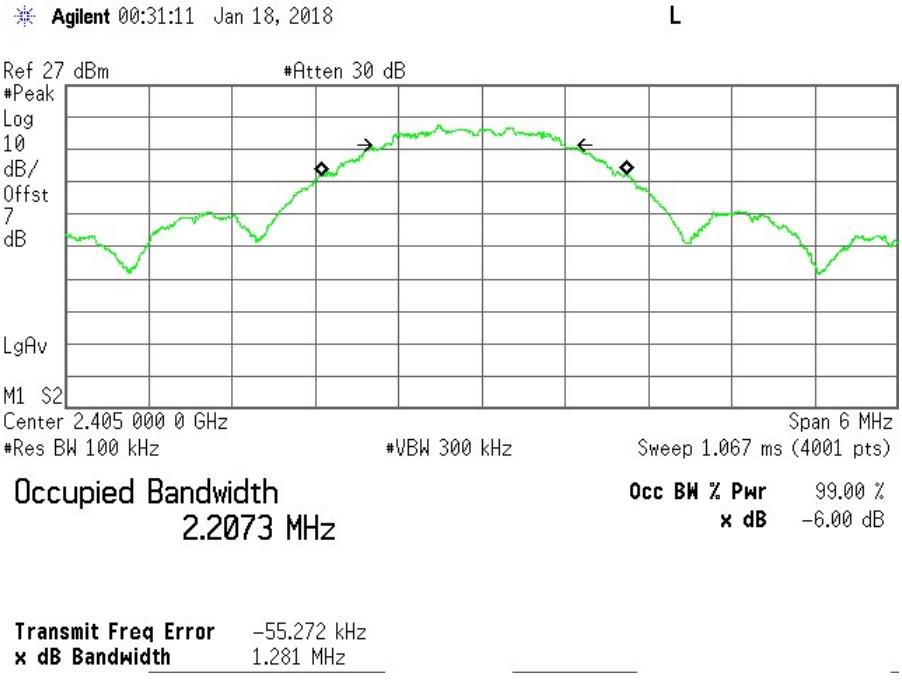
Antenna 1: Low Channel - Plot



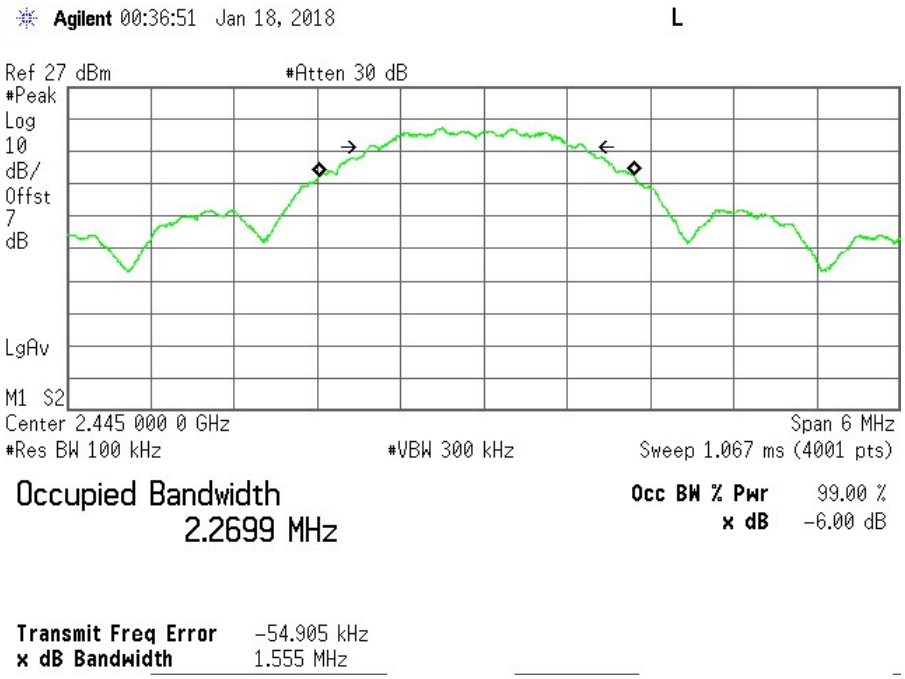
Antenna 1: Mid Channel - Plot



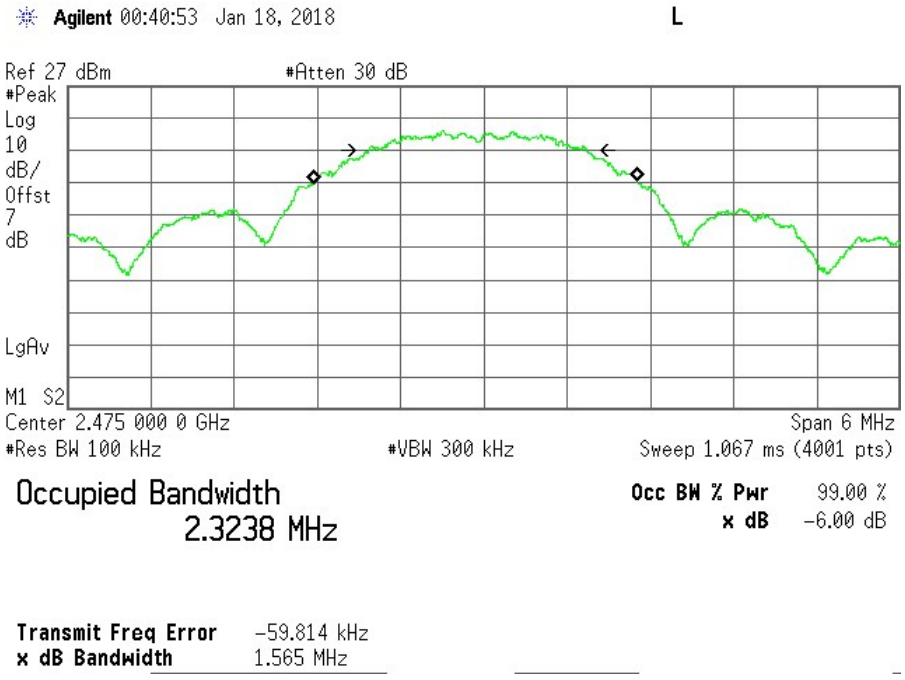
Antenna 1: High Channel – Plot



Antenna 2: Low Channel - Plot



Antenna 2: Mid Channel – Plot



Antenna 2: High Channel - Plot

99% Bandwidth

Test Description

The emission bandwidth (x dB) is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated x dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.
When the occupied bandwidth limit is not stated in the applicable RSS or reference measurement method, the transmitted signal bandwidth shall be reported as the 99% emission bandwidth, as calculated or measured.

Test Criteria

Reference	Limit
RSS-GEN, Section 6.6	N/A

Test Information

Tester	Test Location	Date	Temperature (ºC)	Humidity (%RH)	Pressure (mbar)	Results (P/F)
CL	RF Lab	01/26/18	22.4	15.5	1012	P

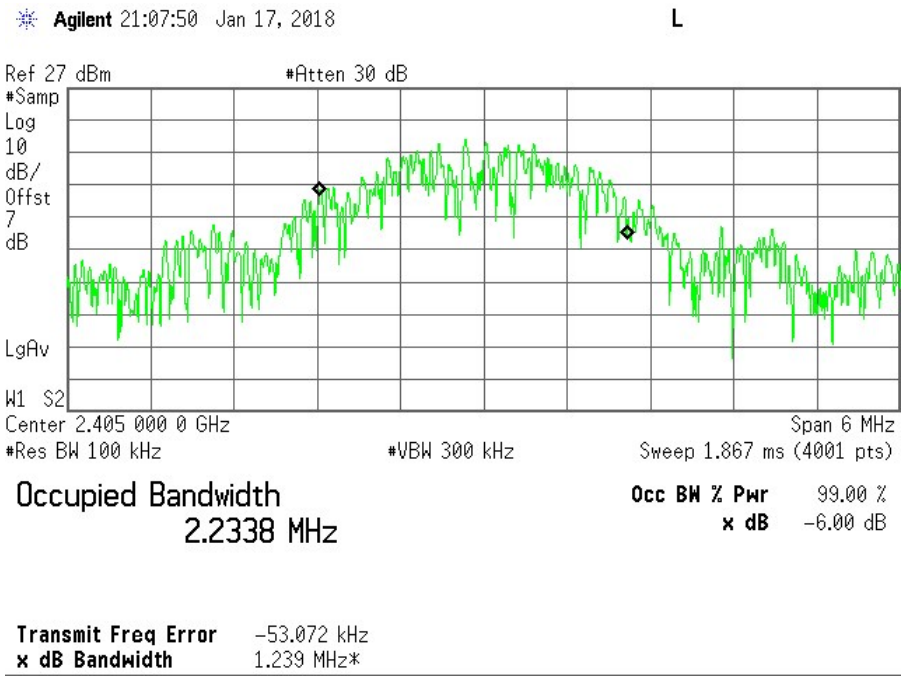
Equipment List

Instrument Type	ID #	Serial #	Manufacturer	Model	Cal Date	Cal Due Date
Spectrum Analyzer	11549	MY46187211	Agilent	E4440A	06/06/17	06/06/19
Environmental Meter	11548	A078188	Extech Instruments	SD700	04/24/17	04/24/18

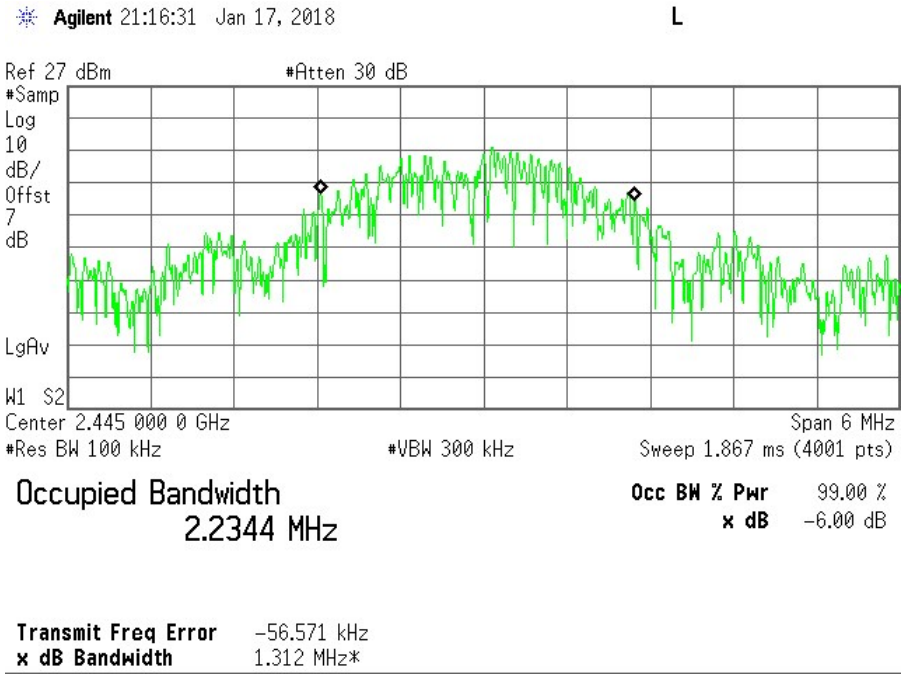
Test Results

Channel	Frequency (GHz)	99% Bandwidth (in MHz)	
		Antenna 1	Antenna 2
Low	2045	2.234	2.225
Mid	2445	2.234	2.235
High	2475	2.258	2.267

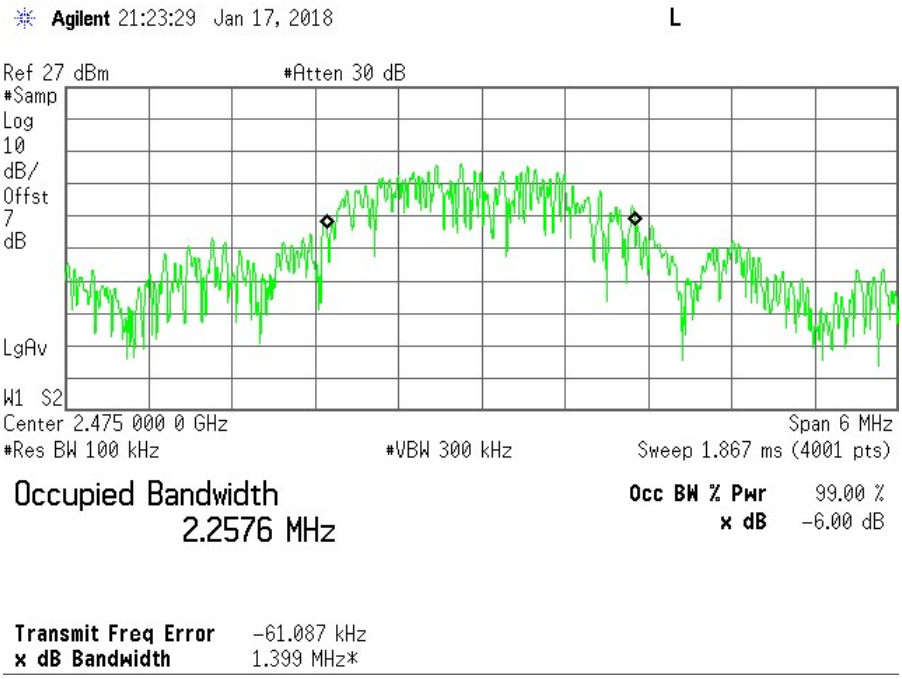
99% Bandwidth



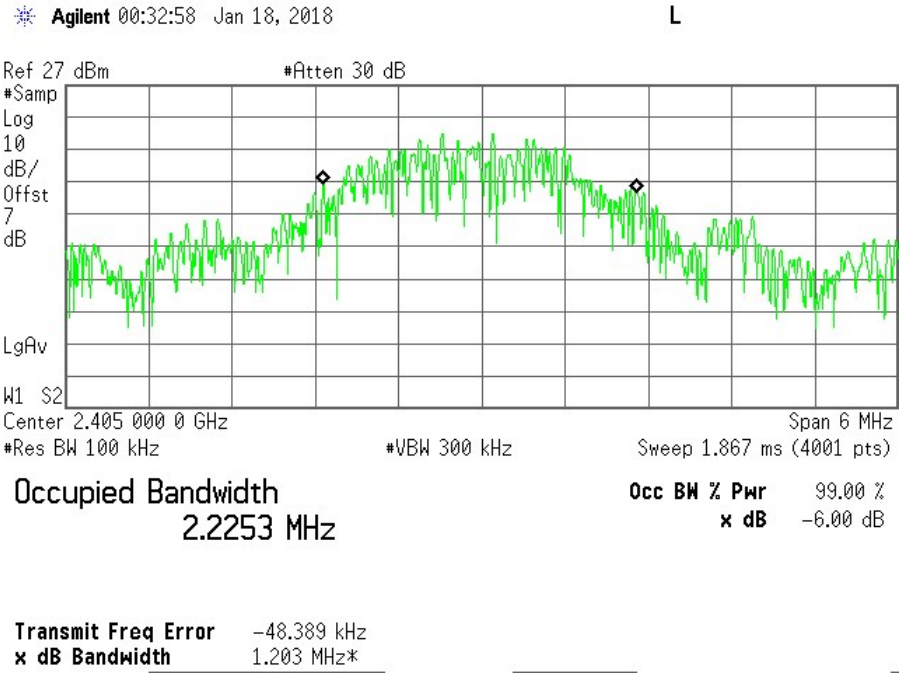
Antenna 1: Low Channel - Plot



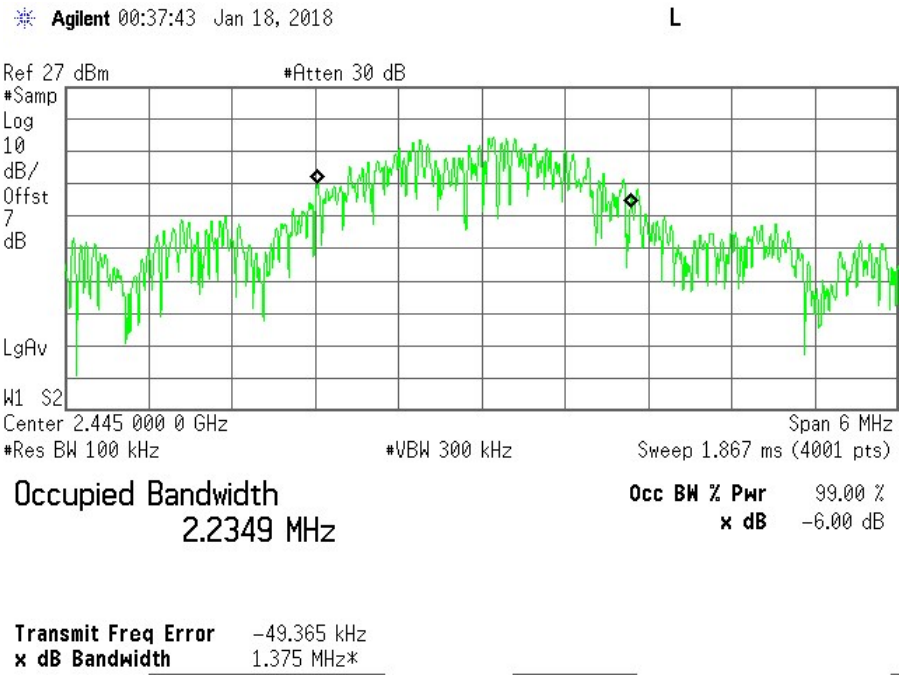
Antenna 1: Mid Channel - Plot



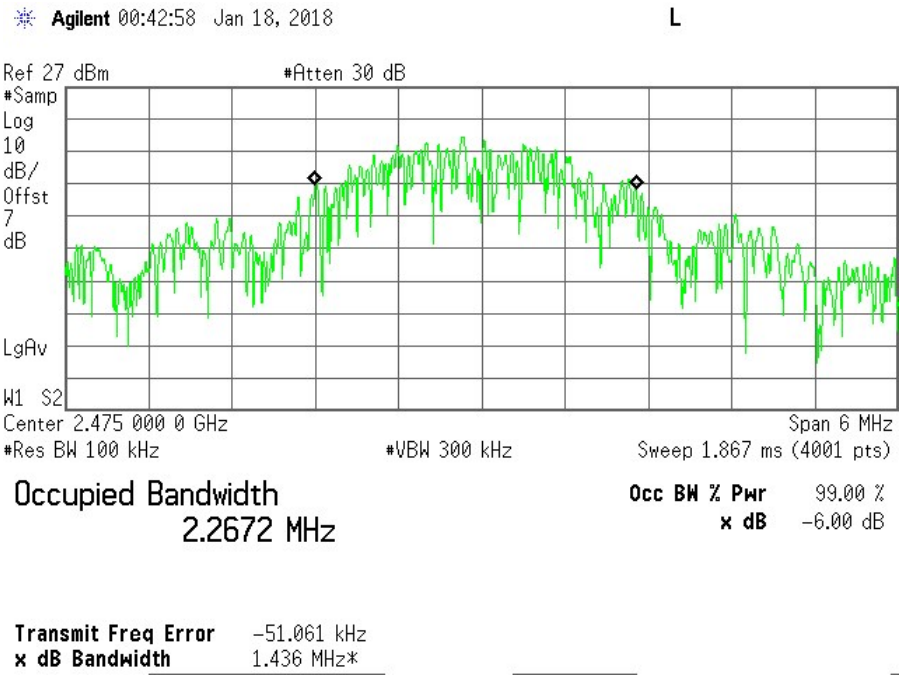
Antenna 1: High Channel – Plot



Antenna 2: Low Channel - Plot



Antenna 2: Mid Channel - Plot



Antenna 2: High Channel - Plot

Maximum Conducted Output Power

Test Description

For systems using digital modulation in the 902-928MHz, 2400-2483,5MHz and 5725-5850MHz bands, the conducted output power limit (specified below) is based on the use of antennas with directional gains that do not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Maximum conducted (average) output power was the method employed to determine fundamental emission output power.

Method AVGSA-1 per C63.10 and KDB 558074 was utilized for this test program.

Test Criteria

Reference	Limit
CFR 47 Subpart C 15.247 (b)(3) RSS-247 Section 5.4 (d)	1W (30dBm)

Test Information

Tester	Test Location	Date	Temperature (ºC)	Humidity (%RH)	Pressure (mbar)	Results (P/F)
CL	RF Lab	02/09/18	22.4	15.5	1012	P

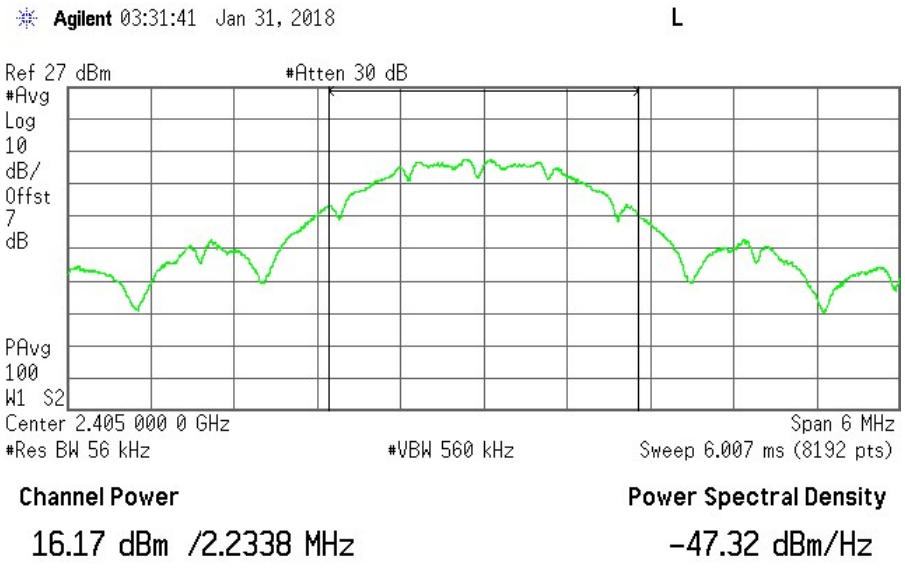
Equipment List

Instrument Type	ID #	Serial #	Manufacturer	Model	Cal Date	Cal Due Date
Spectrum Analyzer	11549	MY46187211	Agilent	E4440A	06/06/17	06/06/19
Environmental Meter	11548	A078188	Extech Instruments	SD700	04/24/17	04/24/18

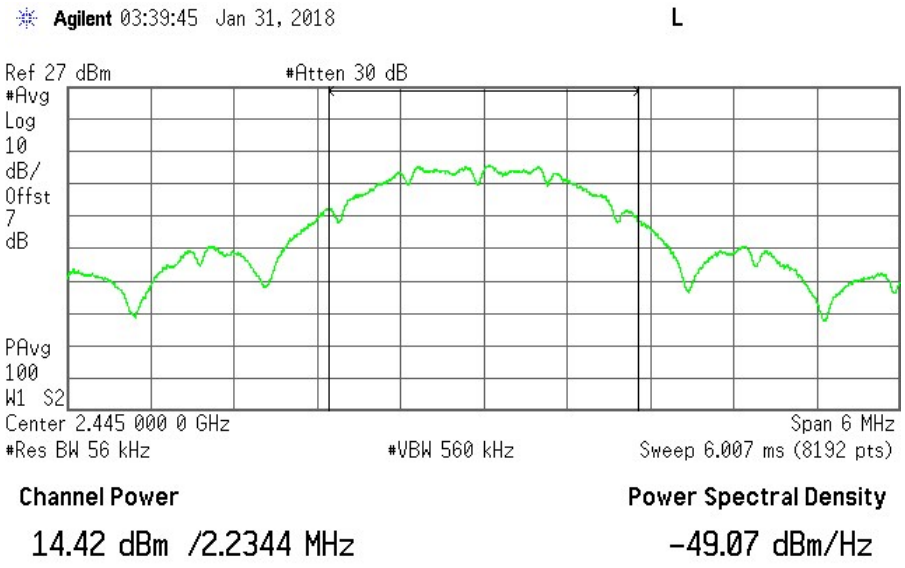
Test Results

Channel	Frequency (GHz)	Tx Channel BW Power (dBm)	
		Antenna 1	Antenna 2
Low	2405	16.17	16.60
Mid	2445	14.42	16.54
High	2475	10.77	15.66

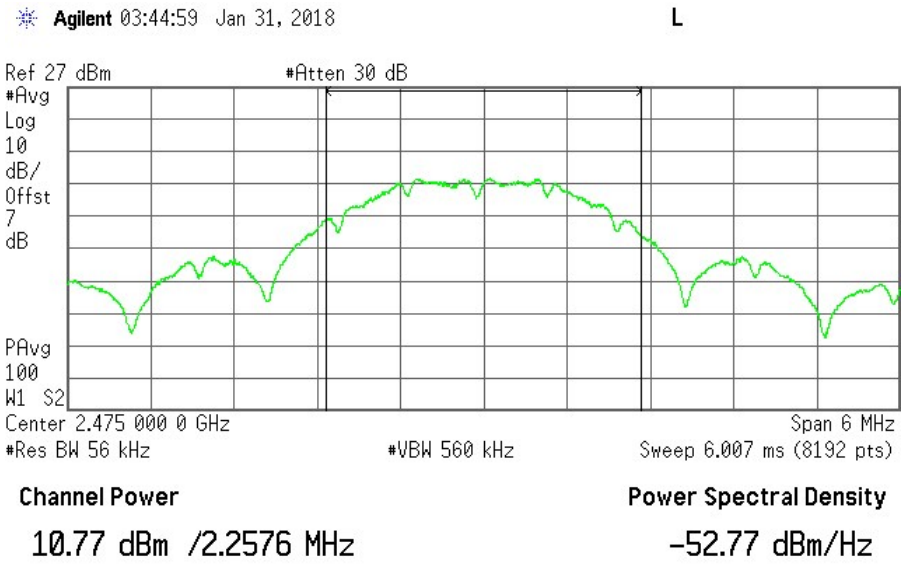
Output Power



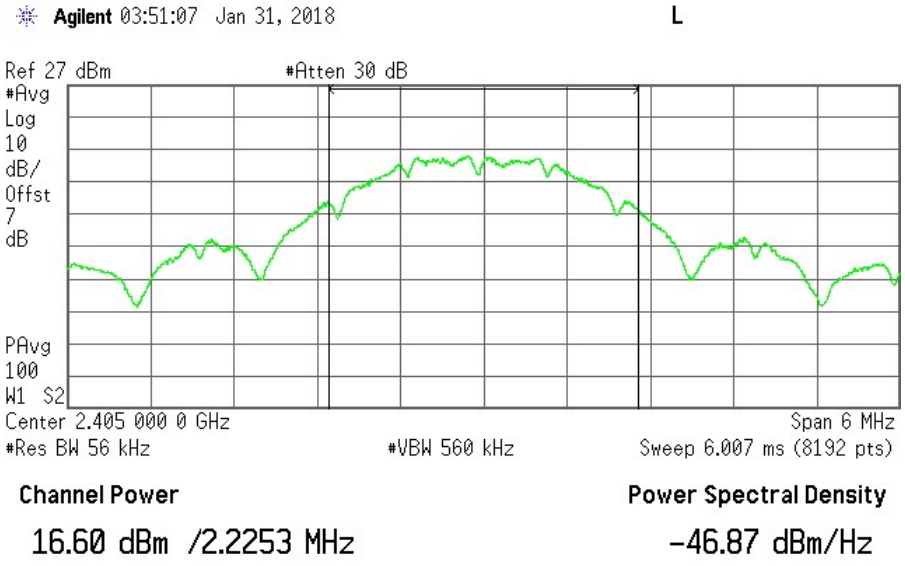
Antenna 1: Low Channel - Plot



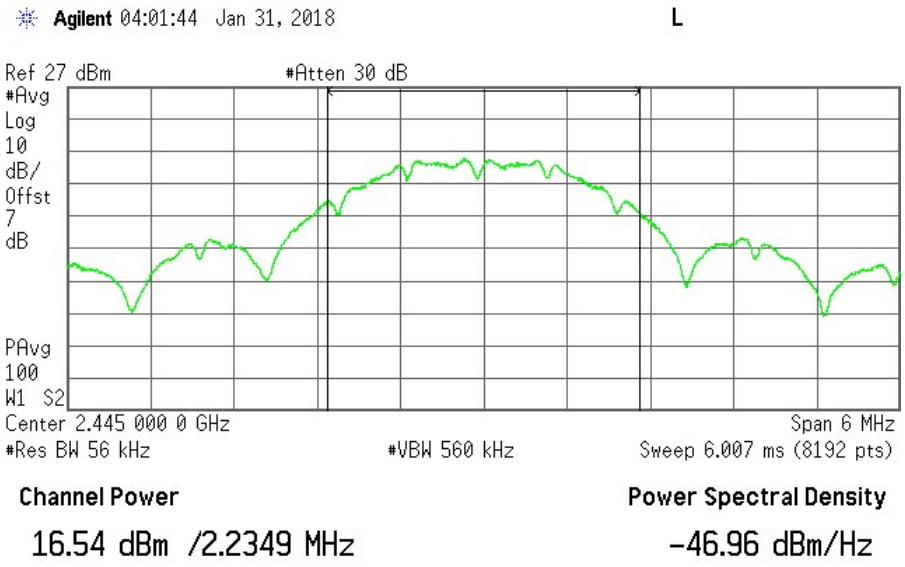
Antenna 1: Mid Channel - Plot



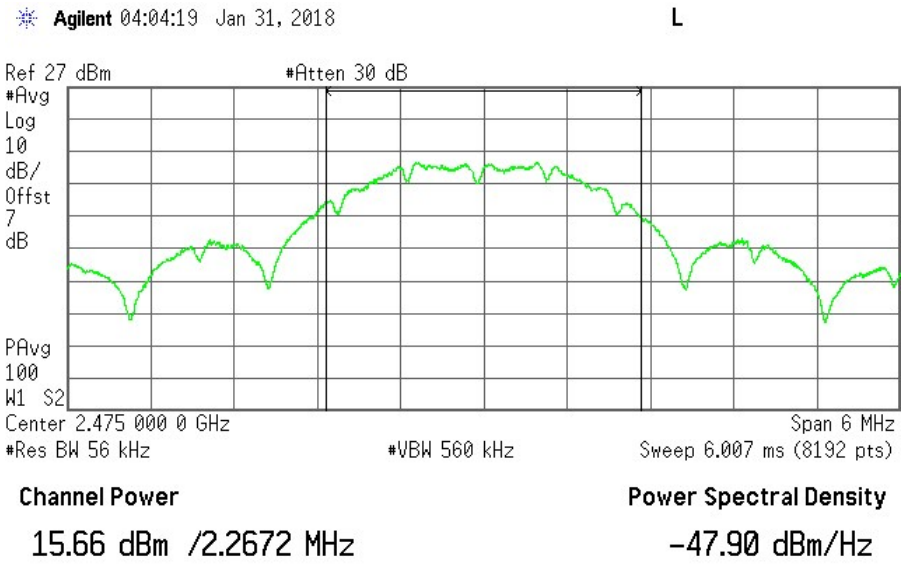
Antenna 1: High Channel – Plot



Antenna 2: Low Channel - Plot



Antenna 2: Mid Channel - Plot



Antenna 2: High Channel - Plot

Maximum Power Spectral Density

Test Description

The DTS rules specify a conducted PSD limit within the *DTS bandwidth* during any time interval of continuous transmission. Such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. Therefore, if maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used.

Since maximum conducted (average) output power was the method employed to determine fundamental emission output power, then the peak / average power spectral density method was utilized.

Method AVGPSD-1 per C63.10 and KDB 558074 was utilized for this test program.

Test Criteria

Reference	Limit
CFR 47 Subpart C 15.247 (e) RSS-247 Section 5.2 (b)	< 8 dBm in any 3 kHz Band

Test Information

Tester	Test Location	Date	Temperature (ºC)	Humidity (%RH)	Pressure (mbar)	Results (P/F)
CL	RF Lab	01/26/18	22.4	15.5	1012	P

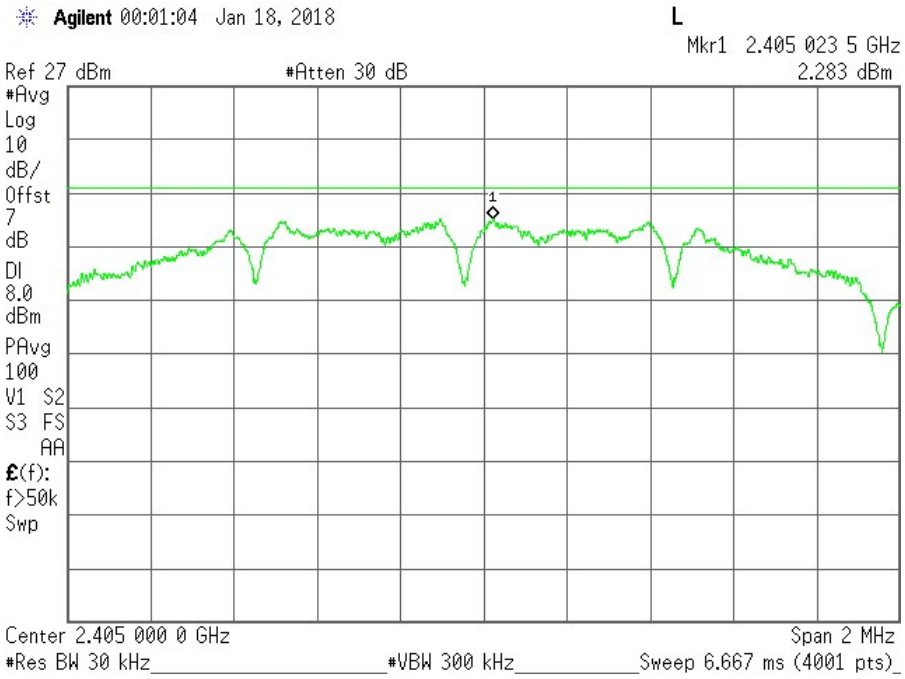
Equipment List

Instrument Type	ID #	Serial #	Manufacturer	Model	Cal Date	Cal Due Date
Spectrum Analyzer	11549	MY46187211	Agilent	E4440A	06/06/17	06/06/19
Environmental Meter	11548	A078188	Extech Instruments	SD700	04/24/17	04/24/18

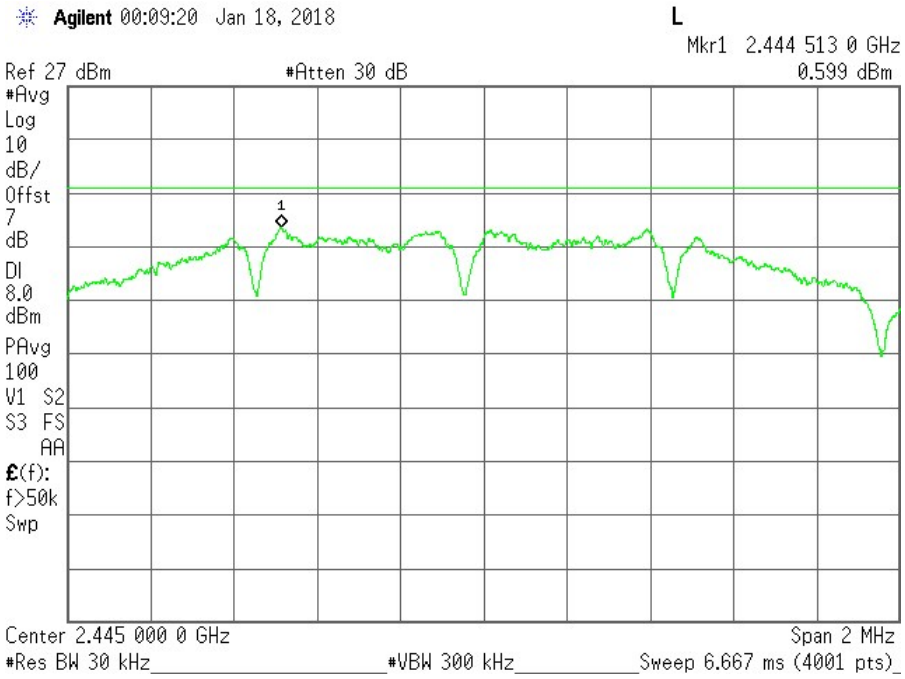
Test Results

Channel	Frequency (GHz)	Max Power (dBm)	
		Antenna 1	Antenna 2
Low	2405	2.283	2.972
Mid	2445	0.599	2.984
High	2475	-2.681	2.025

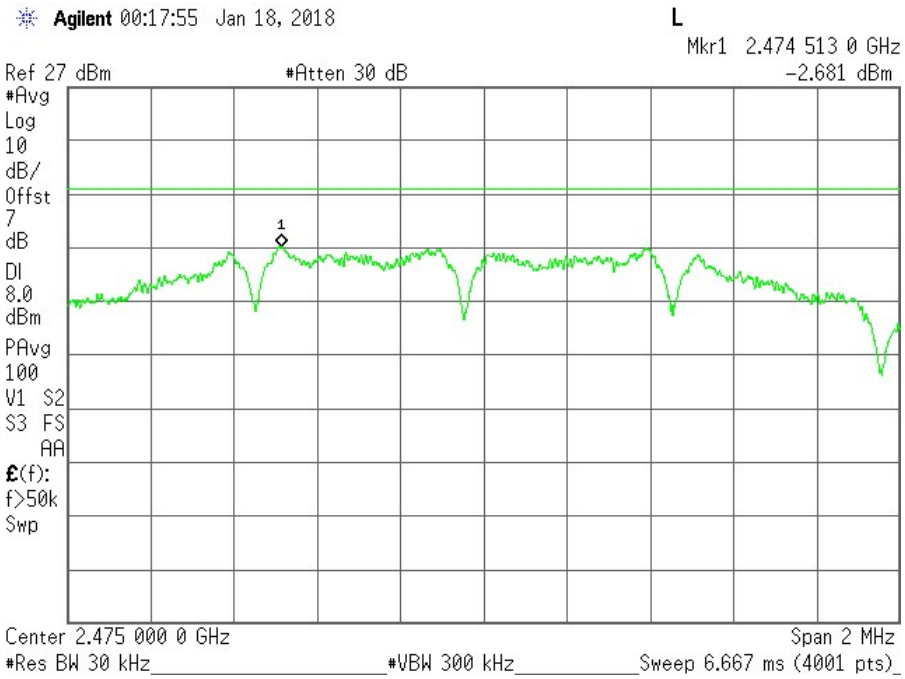
PSD



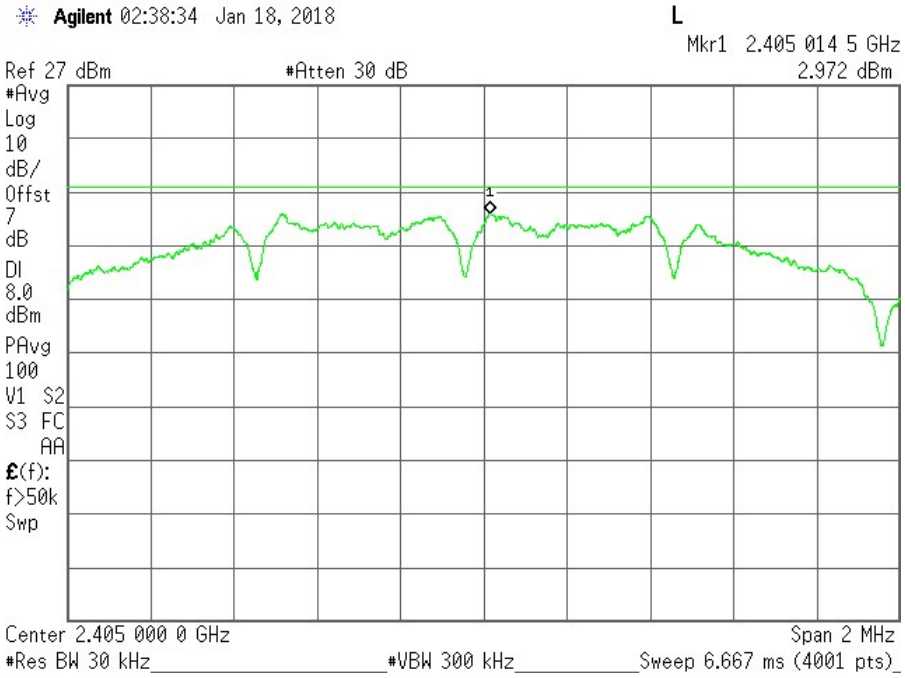
Antenna 1: Low Channel - Plot



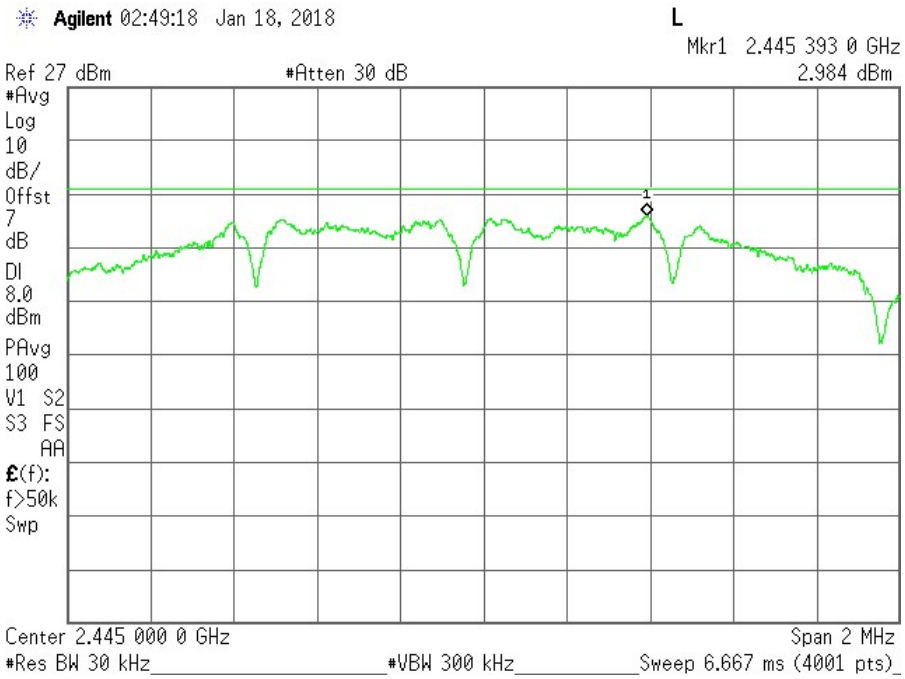
Antenna 1: Mid Channel - Plot



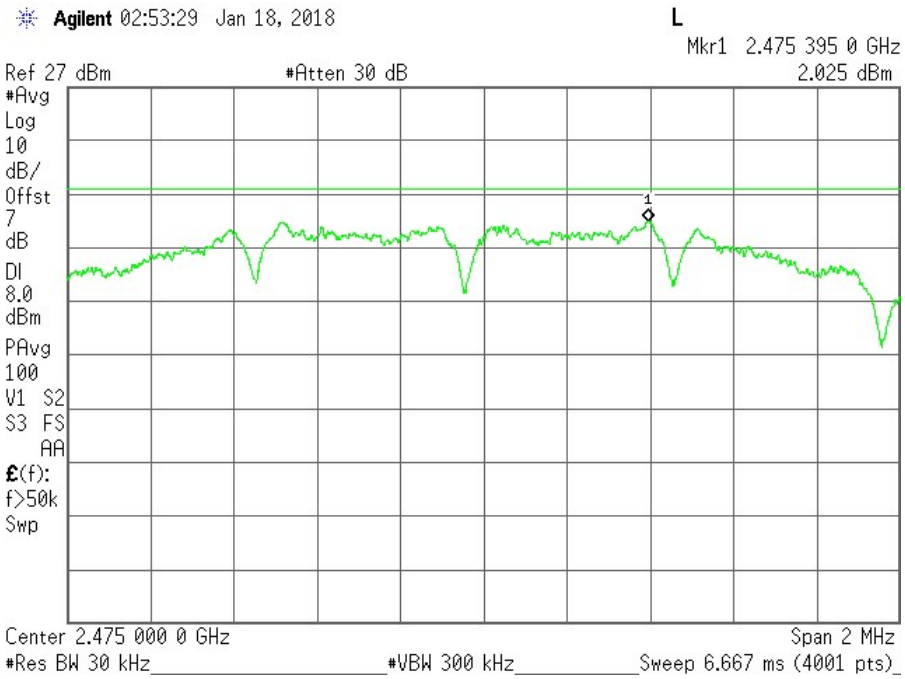
Antenna 1: High Channel – Plot



Antenna 2: Low Channel - Plot



Antenna 2: Mid Channel - Plot



Antenna 2: High Channel - Plot

Authorized Band Edge / Conducted Spurious Emissions

Test Description

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

Note: KDB558074 v04, Section 11.2 is observed for the reference level measurement. For each antenna, the highest level of in-band power, used to calculate the power limit, is established by the center channel.

Test Criteria

Reference	Limit
CFR 47 Subpart C 15.247 (d) RSS-247, Section 5.5	30dB Below the Fundamental

Test Information

Tester	Test Location	Date	Temperature (ºC)	Humidity (%RH)	Pressure (mbar)	Results (P/F)
CL	RF Lab	01/26/18	22.4	15.5	1012	P

Equipment List

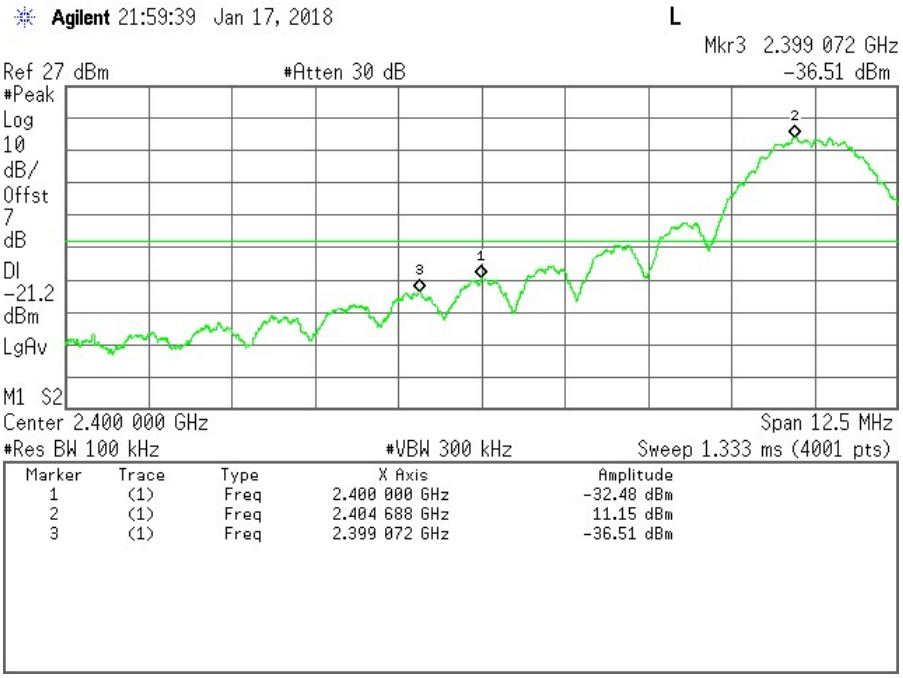
Instrument Type	ID #	Serial #	Manufacturer	Model	Cal Date	Cal Due Date
Spectrum Analyzer	11549	MY46187211	Agilent	E4440A	06/06/17	06/06/19
Environmental Meter	11548	A078188	Extech Instruments	SD700	04/24/17	04/24/18

Test Results

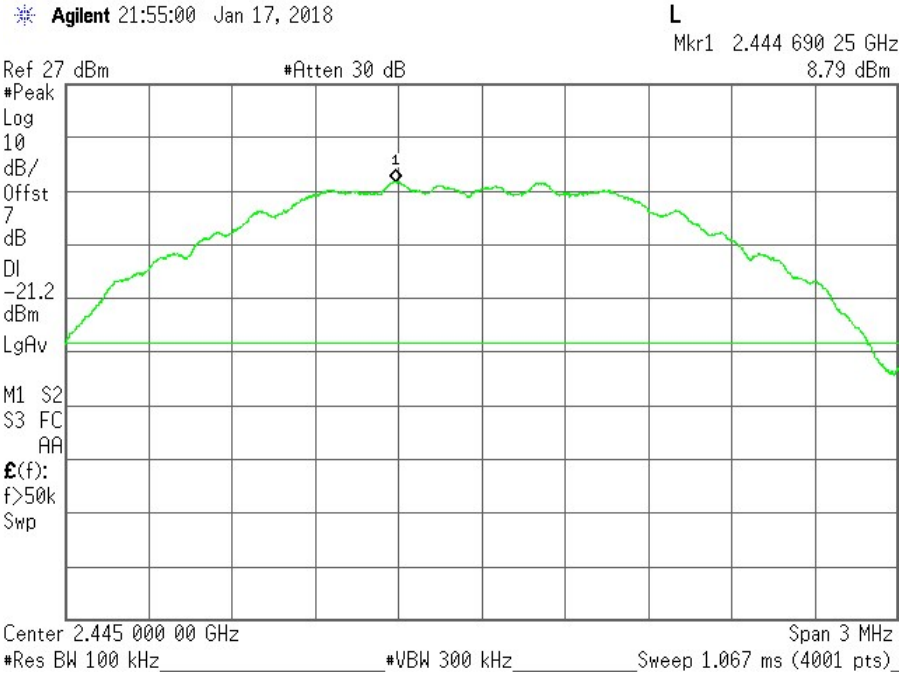
Authorized Band Edge			
Channel	Frequency (GHz)	Delta from limit at Band edge (dB)	
		Antenna 1	Antenna 2
Low	2405	-11.28	-13.93
High	2475	-35.39	-34.6

Conducted Spurious			
Channel	Frequency (GHz)	Highest Spurious Emission Delta from limit (dB)	
		Antenna 1	Antenna 2
Low	2405	-13.44	-27.61
Mid	2445	-9.62	-18.23
High	2475	-12.37	-30.65

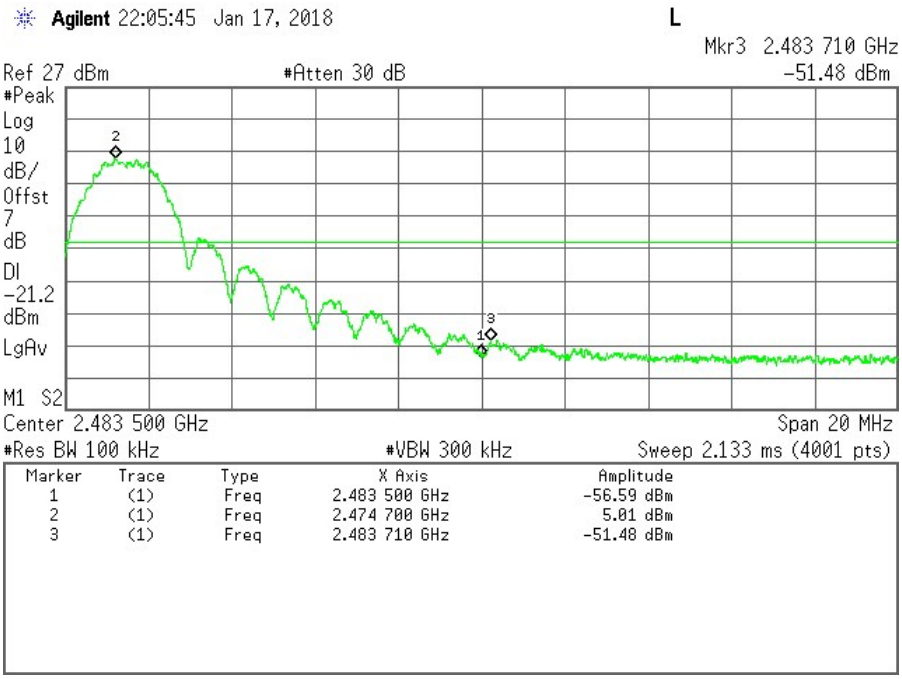
Band Edge



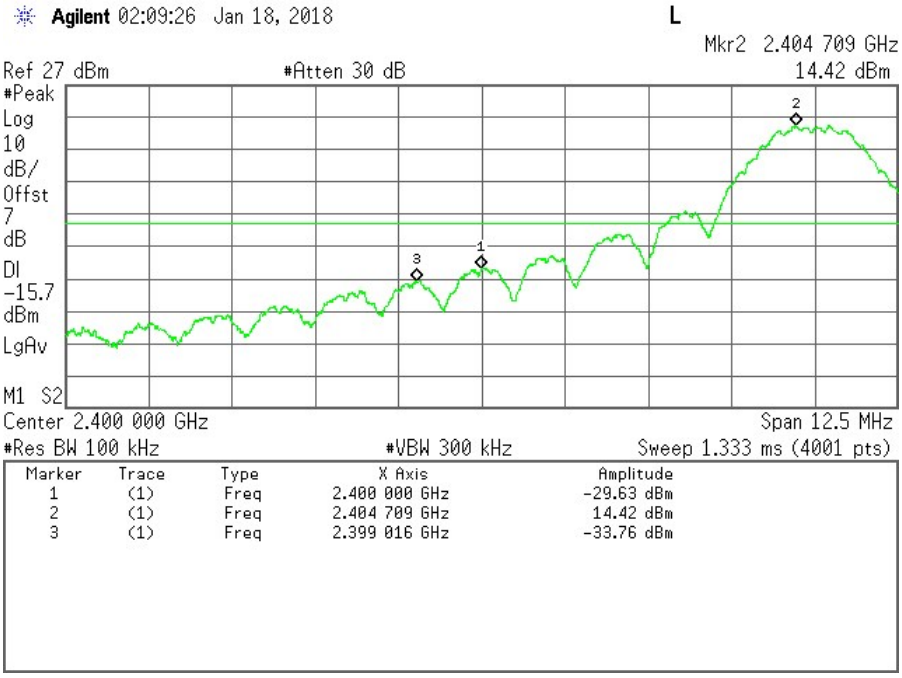
Antenna 1: Low Channel - Plot



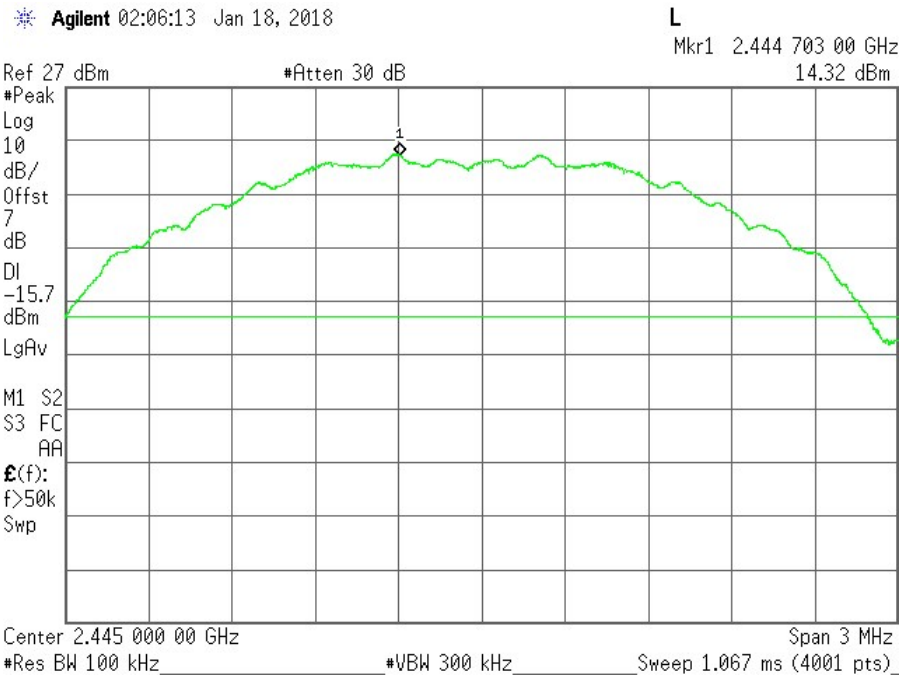
Antenna 1: Mid (Reference) Channel - Plot



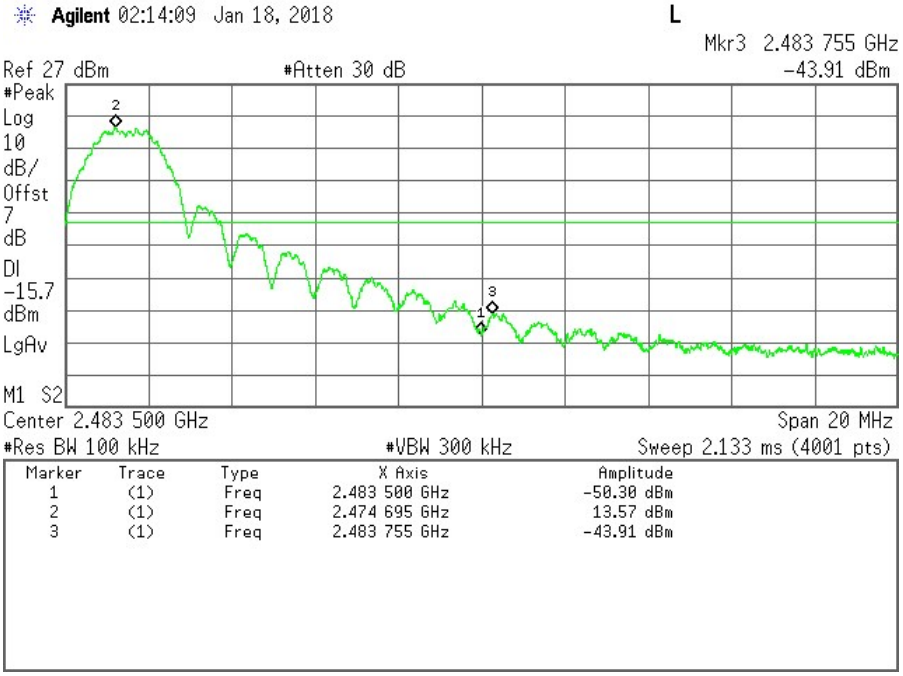
Antenna 1: High Channel – Plot



Antenna 2: Low Channel - Plot

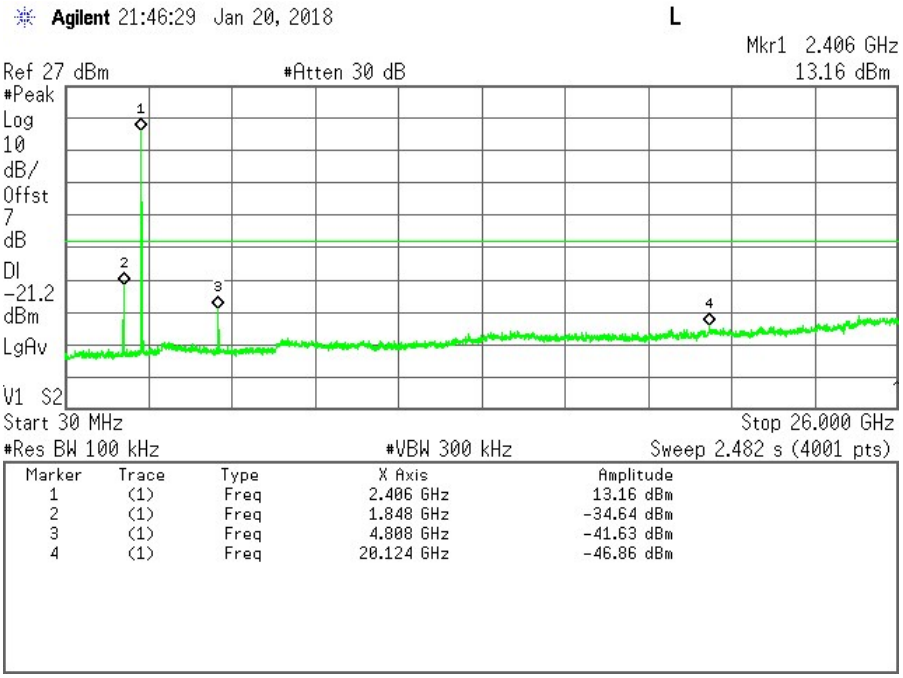


Antenna 2: Mid (Reference) Channel - Plot

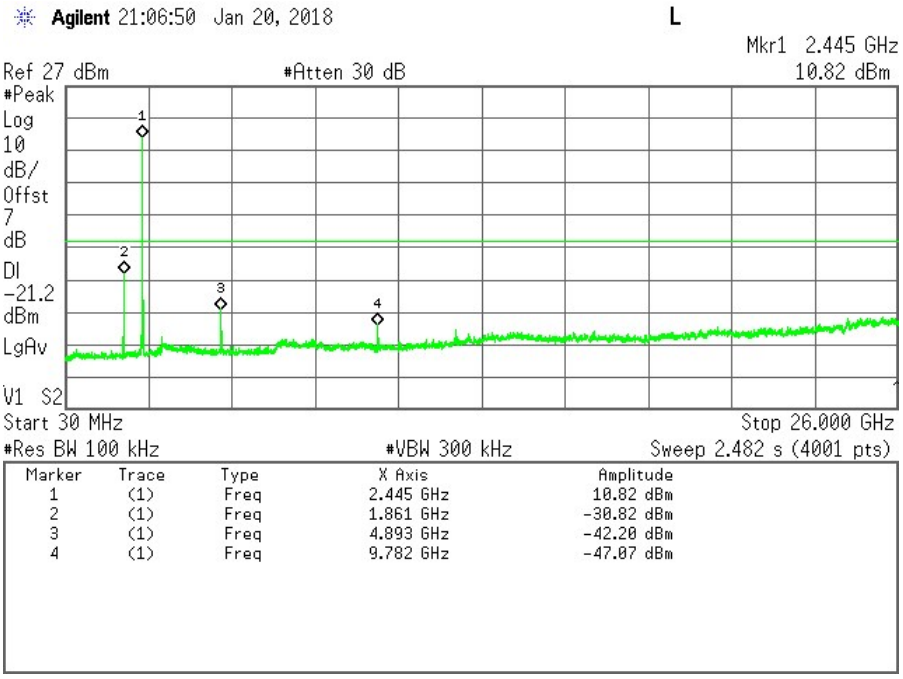


Antenna 2: High Channel - Plot

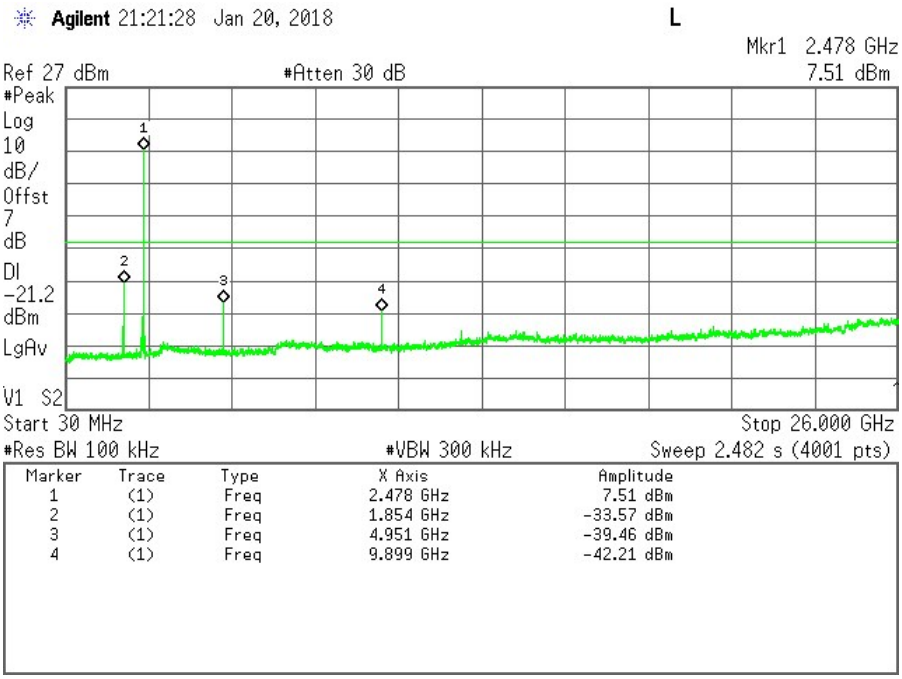
Conducted Spurious



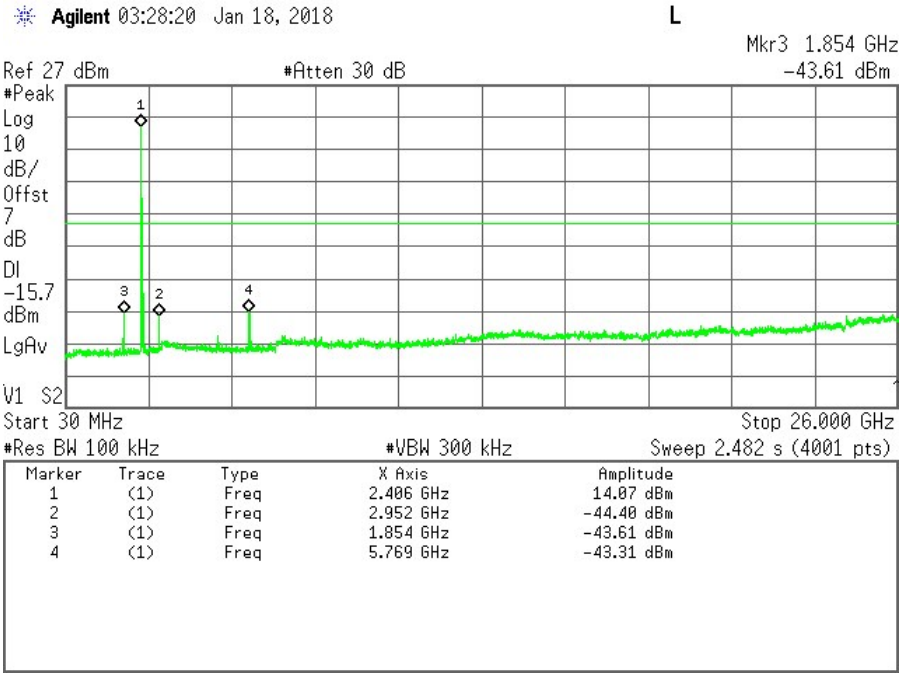
Antenna 1: Low Channel - Plot



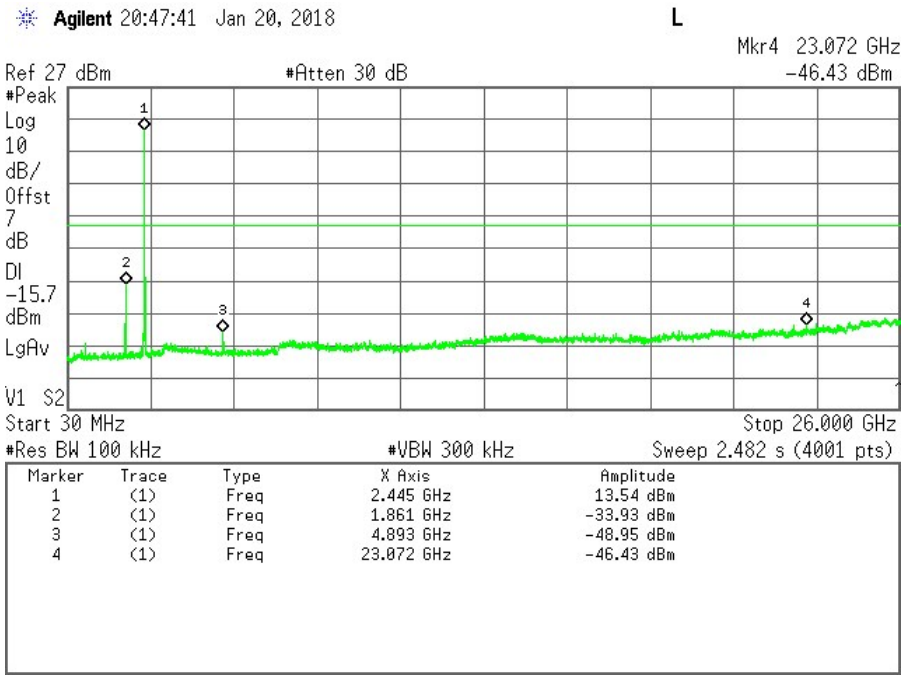
Antenna 1: Mid Channel - Plot



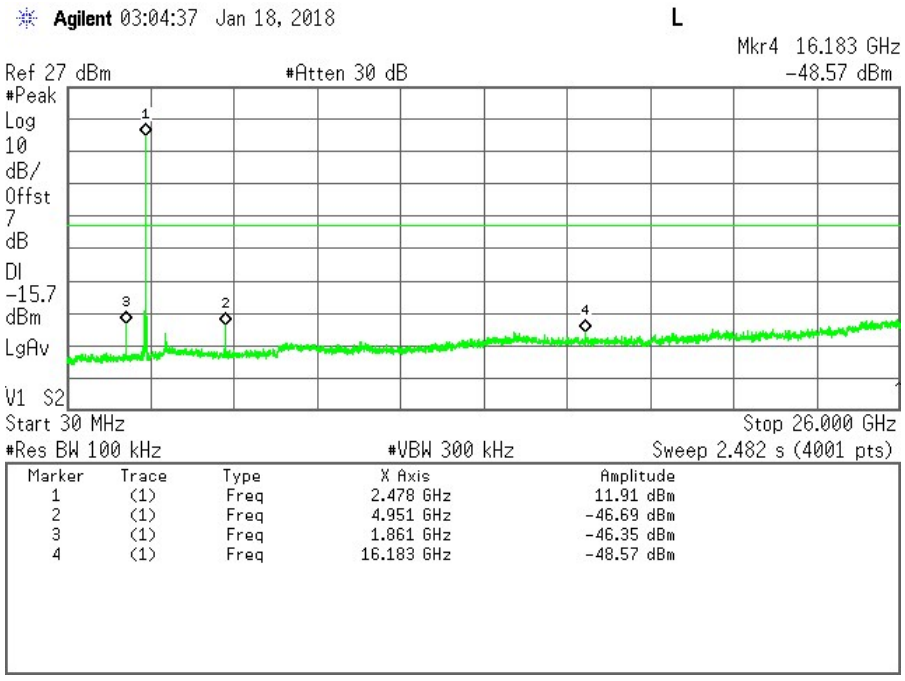
Antenna 1: High Channel – Plot



Antenna 2: Low Channel - Plot



Antenna 2: Mid Channel - Plot



Antenna 2: High Channel - Plot

Radiated Emissions (Intentional)

Test Description

Intentional Radiator Radiated Emissions are a test of the emissions, and harmonics on the EUT. The EUT is positioned to get the maximum emissions after a series of prescan measurements.
The EUT is placed on a non-conducting table 80 cm above the ground plane for below 1 GHz measurements and 1.5 m above the ground plane for above 1 GHz measurements. The antenna to EUT distance is 3 meters.
For measurements below 1 GHz the resolution bandwidth is set to 120 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz; the video bandwidth is set to 1 MHz for peak measurements and as applicable for average measurements.
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each applicable band.
The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

Test Criteria

Reference	Limit		
CFR 47 Subpart C, 15.205 CFR 47 Subpart C, 15.209 RSS-GEN	Frequency Range (MHz)	Field Strength Limit (uV/m)	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.

Test Information

Tester	Test Location	Date	Temperature (ºC)	Humidity (%RH)	Pressure (mbar)	Results (P/F)
CL/JB	RF Chamber/OATS	01/23/18-02/21/18	4.4	50	1001	P

NOTE: Below 30MHz, pretesting showed that no emissions as a product of the EUT were detected within 20dB of the regulatory limit. Worse-case plot/data reported from 30MHz - 1GHz, per antenna. Worse-case plots reported per antenna above 1GHz, however, all required numerical data is provided for each channel/antenna. Prescans performed in an anechoic chamber, final measurements performed on an OATS.

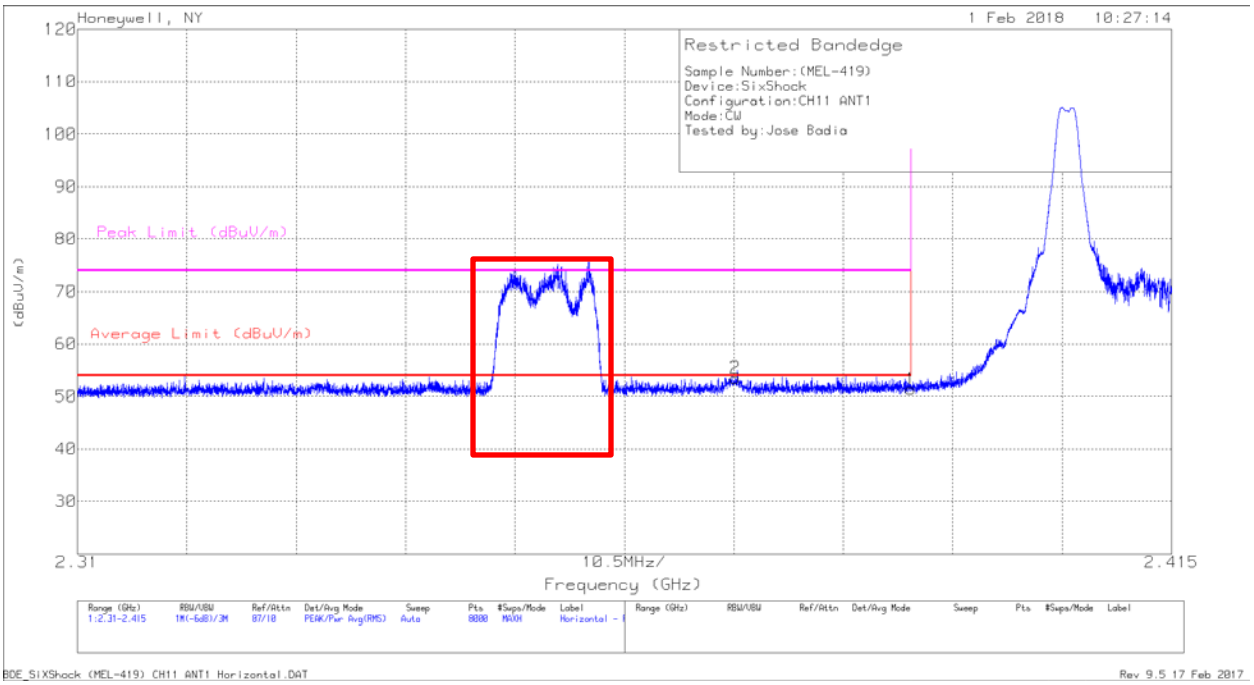
Honeywell International **Document #: 800-23065, Rev. 1.3**
2 Corporate Center Dr., Melville, NY 11747 **TEL: (516) 577-2000**

Equipment List

Instrument Type	ID #	Serial #	Manufacturer	Model	Cal Date	Cal Due Date
RF Chamber						
Spectrum Analyzer	11496	100303	Rohde & Schwarz	FSU26	04/10/17	04/10/18
Loop Antenna (9kHz-30MHz)	11535	121080	Com-Power	AL-130R	10/17/17	10/17/18
Bilog Antenna (30MHz-6GHz)	11534	A012816	Sunol	JB6	03/09/17	03/09/18
Horn Antenna (1-18GHz)	2319	2317	EMCO	3115	01/10/18	01/10/19
Horn Antenna (18-40GHz)	11472	151	EMCO	EM-6963	02/06/17	02/06/18
Preamp (30-1000MHz)	11537	1603006	Mini Circuits	TVA-11-422	N/A	N/A
Preamp (1-18GHz)	11539	160362	Amplical	AMP1G18-35	N/A	N/A
Preamp (18-40GHz)	11541	160911	Amplical	AMP18G40-35	N/A	N/A
Band Reject Filter	11553	G041	Micro-tronics	BRM50702-01	N/A	N/A
Measurement Software	11543	Version 9.5	UL	UL EMC	N/A	N/A
Environmental Meter	11548	A.078188	Extech Instruments	SD700	04/24/17	04/14/18
OATS						
Spectrum Analyzer	11545	103125	Rohde & Schwarz	FSW26	02/14/17	02/14/18
Spectrum Analyzer	11496	100303	Rohde & Schwarz	FSU26	04/10/17	04/10/18
Bilog Antenna (30MHz-6GHz)	11534	A012816	Sunol	JB6	03/09/17	03/09/18
Horn Antenna (1-18GHz)	2973	3127	EMCO	RGA-60	01/22/18	01/22/19
Horn Antenna (18-40GHz)	11472	151	EMCO	EM-6963	02/06/17	02/06/18
Preamp (1-18GHz)	11539	160362	Amplical	AMP1G18-35	N/A	N/A
Preamp (18-40GHz)	11541	160911	Amplical	AMP18G40-35	N/A	N/A
High Pass Filter	11552	G018	Micro-tronics	HPM50111-01	N/A	N/A
Measurement Software	11543	Version 9.5	UL	UL EMC	N/A	N/A
Environmental Meter	11533	A070144	Extech Instruments	SD700	08/21/17	08/21/20

Test Results

Restricted Band Edge



Antenna 1: Low Channel Horizontal – Plot

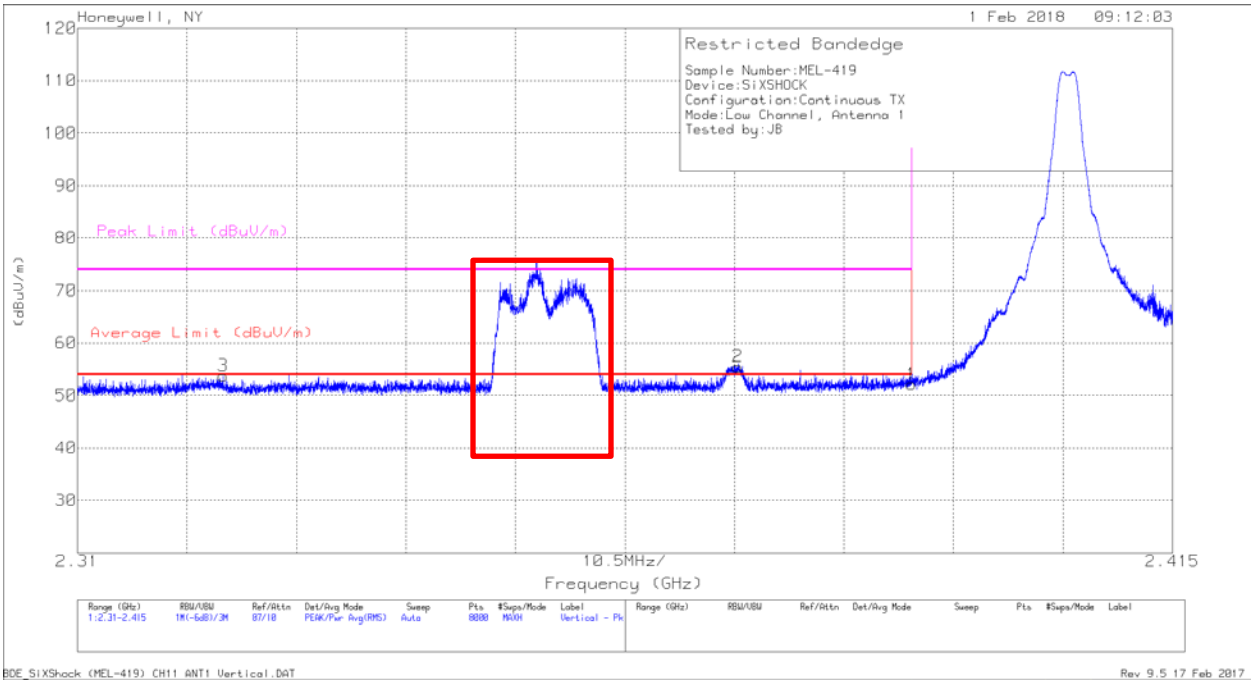
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX3 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	17.06	Pk	28.5	.7	2.6	2.5	-	51.36	74	-22.64	159	318	H
2	* 2.373	19.34	Pk	28.4	.7	2.6	2.5	-	53.54	74	-20.46	159	318	H
Marker	**Frequency (GHz)**	**Meter Reading (dBuV)**	**Det**	**AF [dB/m]**	**SWBOX3 [dB]**	**SMA7 [dB]**	**SMA5 [dB]**	**DC Corr (dB)**	**Corrected Reading (dBuV/m)**	**Average Limit (dBuV/m)**	**Margin (dB)**	**Azimuth (Degs)**	**Height (cm)**	**Polarity**
1	* 2.39	17.06	Av	28.5	.7	2.6	2.5	-23.1	28.26	54	-25.74	159	318	H
2	* 2.373	19.34	Av	28.4	.7	2.6	2.5	-23.1	30.44	54	-23.56	159	318	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: Low Channel Horizontal – Data

NOTE: Emissions highlighted in the plot above is OATS ambient and not a product of the transmitter



Antenna 1: Low Channel Vertical – Plot

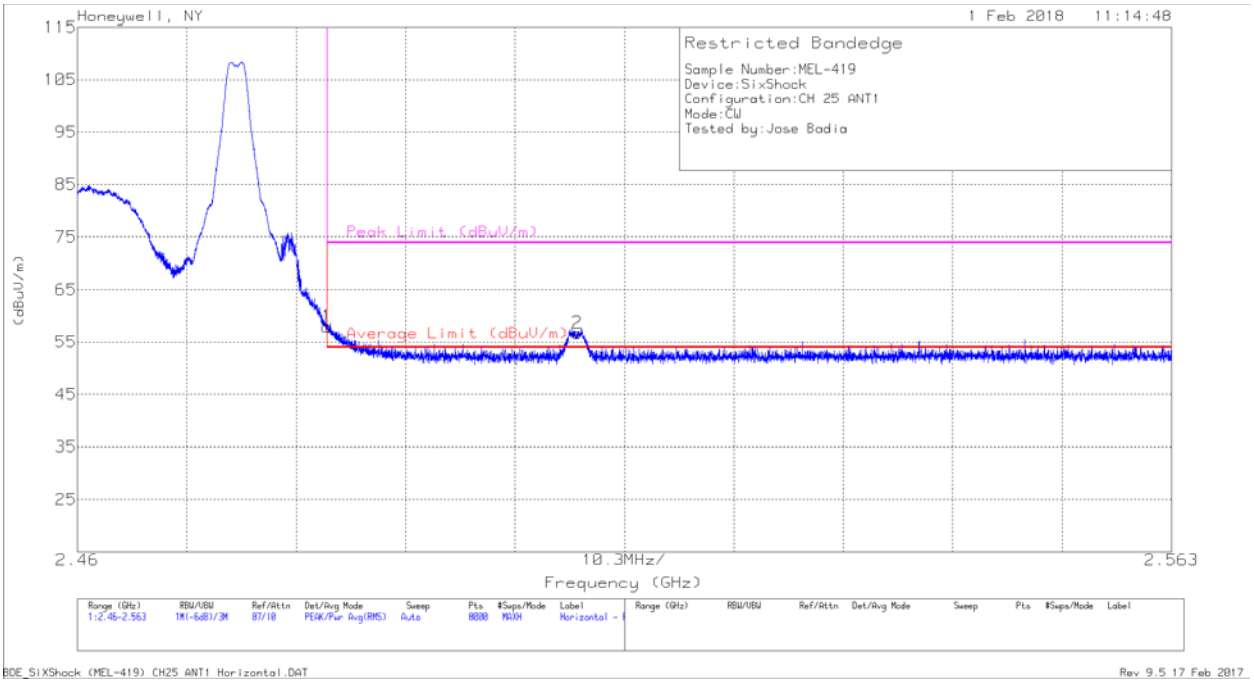
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX3 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	17.87	Pk	28.5	.7	2.6	2.5	-	52.17	74	-21.83	278	313	V
2	* 2.373	21.29	Pk	28.4	.7	2.6	2.5	-	55.49	74	-18.51	278	313	V
3	* 2.324	20	Pk	28	.7	2.5	2.5	-	53.7	74	-20.3	278	313	V
Marker	**Frequency (GHz)**	**Meter Reading (dBuV)**	**Det**	**AF [dB/m]**	**SWBOX3 [dB]**	**SMA7 [dB]**	**SMA5 [dB]**	**DC Corr (dB)**	**Corrected Reading (dBuV/m)**	**Average Limit (dBuV/m)**	**Margin (dB)**	**Azimuth (Degs)**	**Height (cm)**	**Polarity**
1	* 2.39	17.87	Av	28.5	.7	2.6	2.5	-23.1	29.07	54	-24.93	278	313	V
2	* 2.373	21.29	Av	28.4	.7	2.6	2.5	-23.1	32.39	54	-21.61	278	313	V
3	* 2.324	20	Av	28	.7	2.5	2.5	-23.1	30.6	54	-23.4	278	313	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: Low Channel Vertical – Data

NOTE: Emissions highlighted in the plot above is OATS ambient and not a product of the transmitter



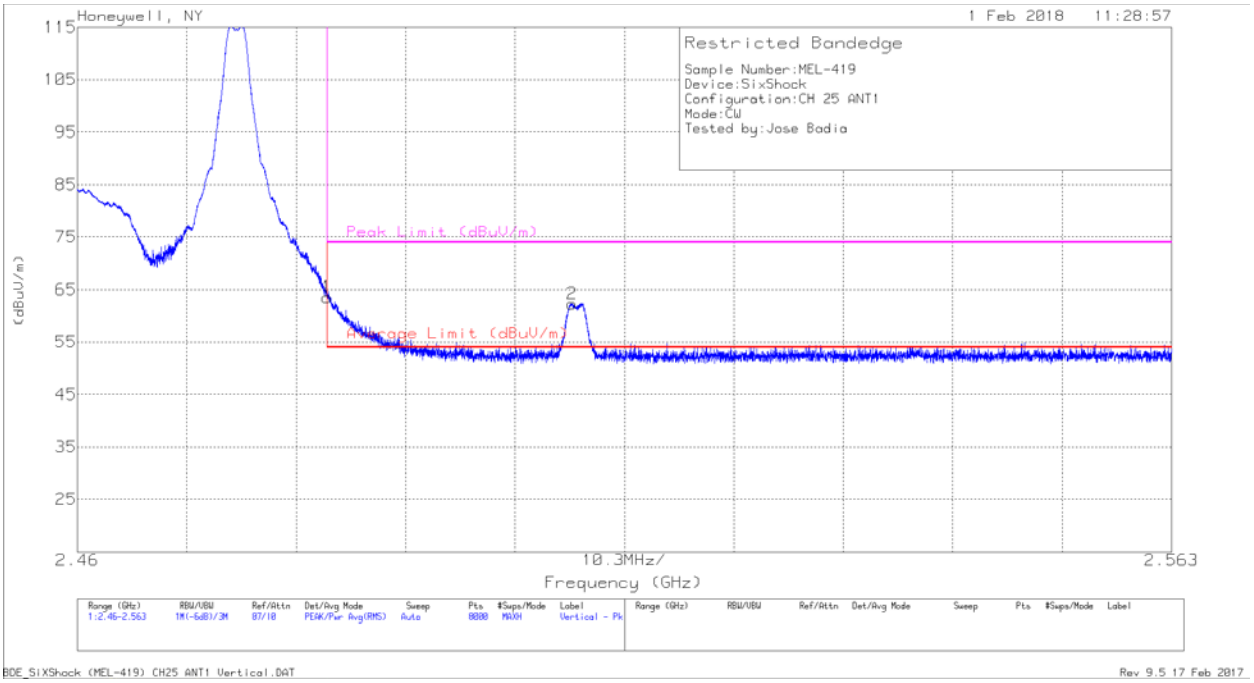
Antenna 1: High Channel Horizontal - Plot

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX3 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	23.3	Pk	28.7	.7	2.6	2.6	-	57.9	74	-16.1	145	336	H
2	2.507	21.84	Pk	28.8	.7	2.7	2.6	-	56.64	74	-17.36	145	336	H
Marker	**Frequency (GHz)**	**Meter Reading (dBuV)**	**Det**	**AF [dB/m]**	**SWBOX3 [dB]**	**SMA7 [dB]**	**SMA5 [dB]**	**DC Corr (dB)**	**Corrected Reading (dBuV/m)**	**Average Limit (dBuV/m)**	**Margin (dB)**	**Azimuth (Degs)**	**Height (cm)**	**Polarity**
1	* 2.484	23.3	Av	28.7	.7	2.6	2.6	-23.1	34.8	54	-19.2	145	336	H
2	2.507	21.84	Av	28.8	.7	2.7	2.6	-23.1	33.54	54	-20.46	145	336	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: High Channel Horizontal – Data



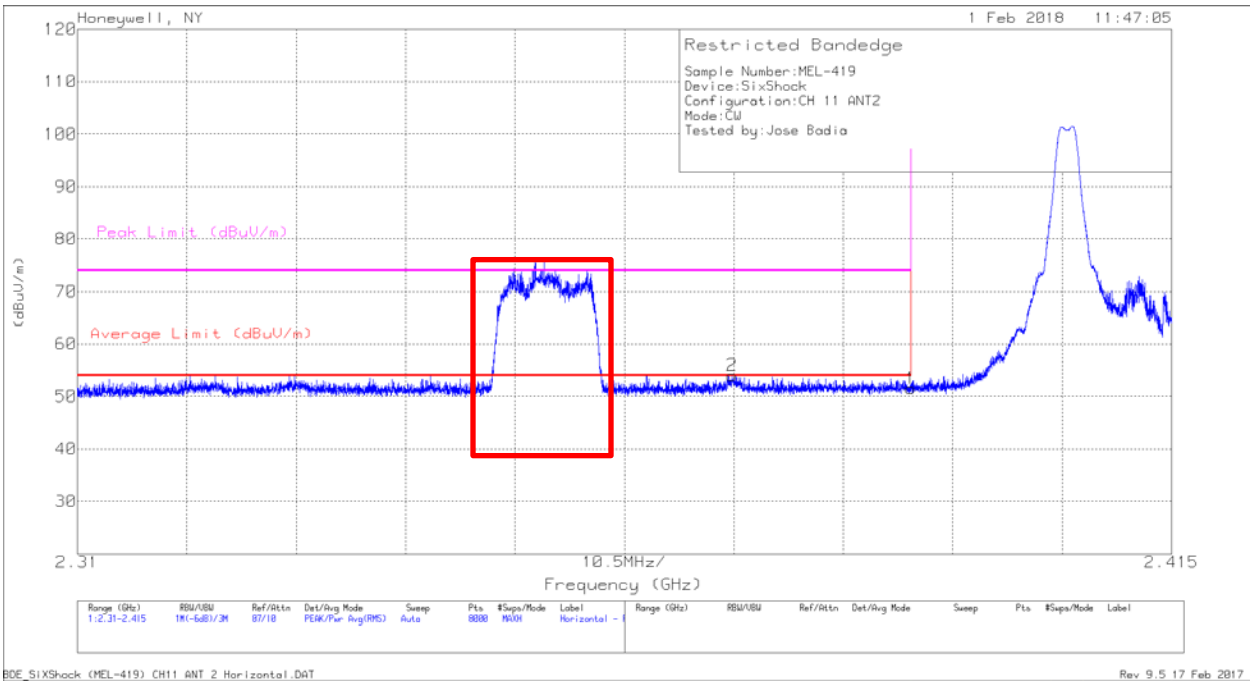
Antenna 1: High Channel Vertical - Plot

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX3 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	28.9	Pk	28.7	.7	2.6	2.6	-	63.5	74	-10.5	282	155	V
2	2.507	27.5	Pk	28.8	.7	2.7	2.6	-	62.3	74	-11.7	282	155	V
Marker	**Frequency (GHz)**	**Meter Reading (dBuV)**	**Det**	**AF [dB/m]**	**SWBOX3 [dB]**	**SMA7 [dB]**	**SMA5 [dB]**	**DC Corr (dB)**	**Corrected Reading (dBuV/m)**	**Average Limit (dBuV/m)**	**Margin (dB)**	**Azimuth (Degs)**	**Height (cm)**	**Polarity**
1	* 2.484	28.9	Av	28.7	.7	2.6	2.6	-23.1	40.4	54	-13.6	282	155	V
2	2.507	27.5	Av	28.8	.7	2.7	2.6	-23.1	39.2	54	-14.8	282	155	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: High Channel Vertical – Data



Antenna 2: Low Channel Horizontal – Plot

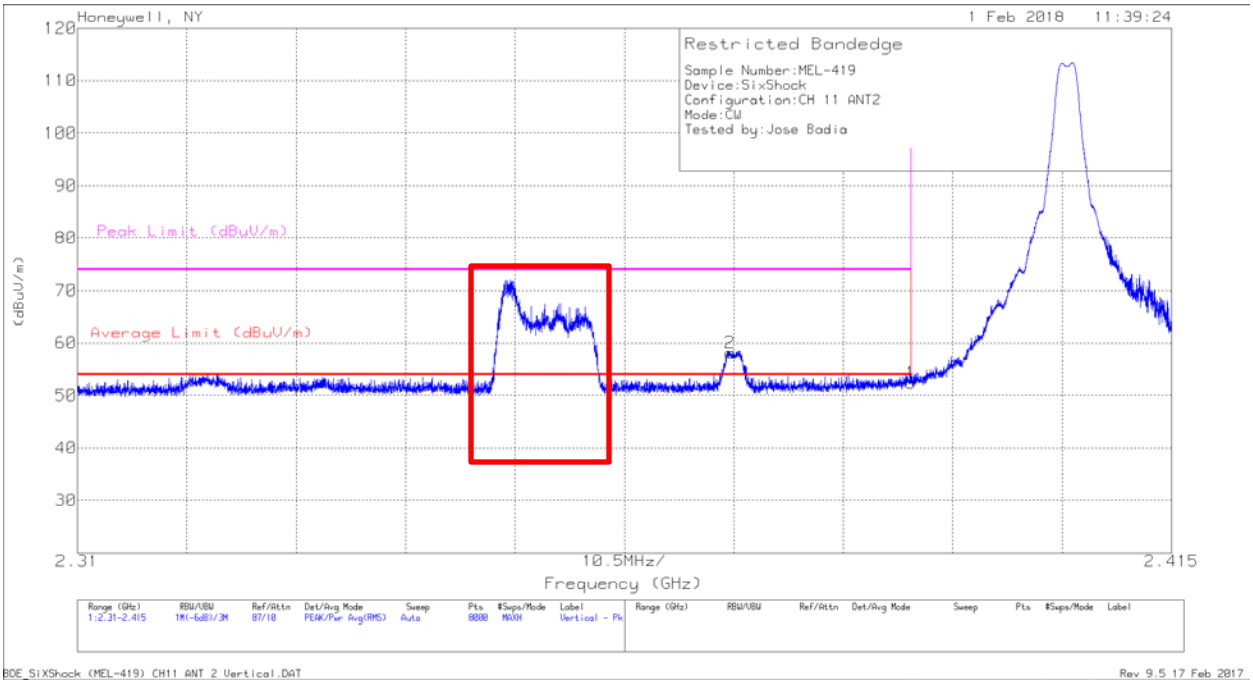
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX3 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	17.23	Pk	28.5	.7	2.6	2.5	-	51.53	74	-22.47	42	388	H
2	* 2.373	19.82	Pk	28.4	.7	2.6	2.5	-	54.02	74	-19.98	42	388	H
Marker	**Frequency (GHz)**	**Meter Reading (dBuV)**	**Det**	**AF [dB/m]**	**SWBOX3 [dB]**	**SMA7 [dB]**	**SMA5 [dB]**	**DC Corr (dB)**	**Corrected Reading (dBuV/m)**	**Average Limit (dBuV/m)**	**Av Margin (dB)**	**Azimuth (Degs)**	**Height (cm)**	**Polarity**
1	* 2.39	17.23	Av	28.5	.7	2.6	2.5	-23.1	28.4	54	-25.6	42	388	H
2	* 2.373	19.82	Av	28.4	.7	2.6	2.5	-23.1	30.89	54	-23.11	42	388	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: Low Channel Horizontal – Data

NOTE: Emissions highlighted in the plot above is OATS ambient and not a product of the transmitter



Antenna 2: Low Channel Vertical - Plot

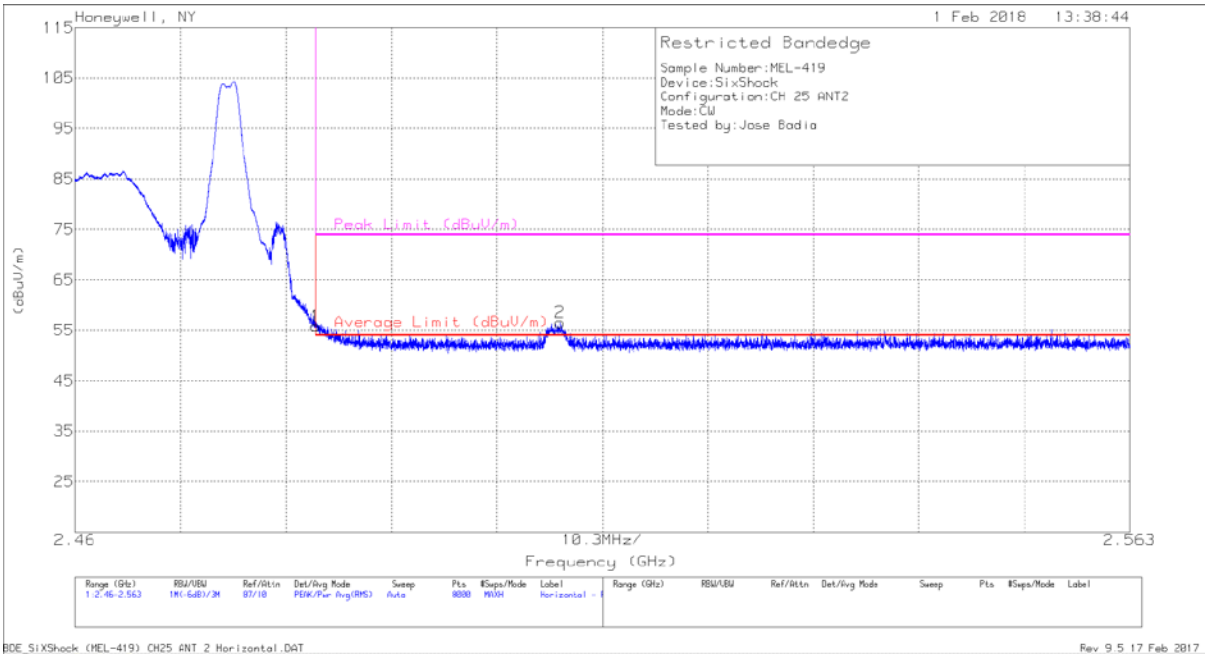
Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX3 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.39	18.02	Pk	28.5	.7	2.6	2.5	-	52.32	74	-21.68	36	140	V
2	* 2.373	23.83	Pk	28.4	.7	2.6	2.5	-	58.03	74	-15.97	36	140	V
Marker	**Frequency (GHz)**	**Meter Reading (dBuV)**	**Det**	**AF [dB/m]**	**SWBOX3 [dB]**	**SMA7 [dB]**	**SMA5 [dB]**	**DC Corr (dB)**	**Corrected Reading (dBuV/m)**	**Average Limit (dBuV/m)**	**Margin (dB)**	**Azimuth (Degs)**	**Height (cm)**	**Polarity**
1	* 2.39	18.02	Av	28.5	.7	2.6	2.5	-23.1	29.22	54	-24.78	36	140	V
2	* 2.373	23.83	Av	28.4	.7	2.6	2.5	-23.1	34.93	54	-19.07	36	140	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: Low Channel Vertical – Data

NOTE: Emissions highlighted in the plot above is OATS ambient and not a product of the transmitter



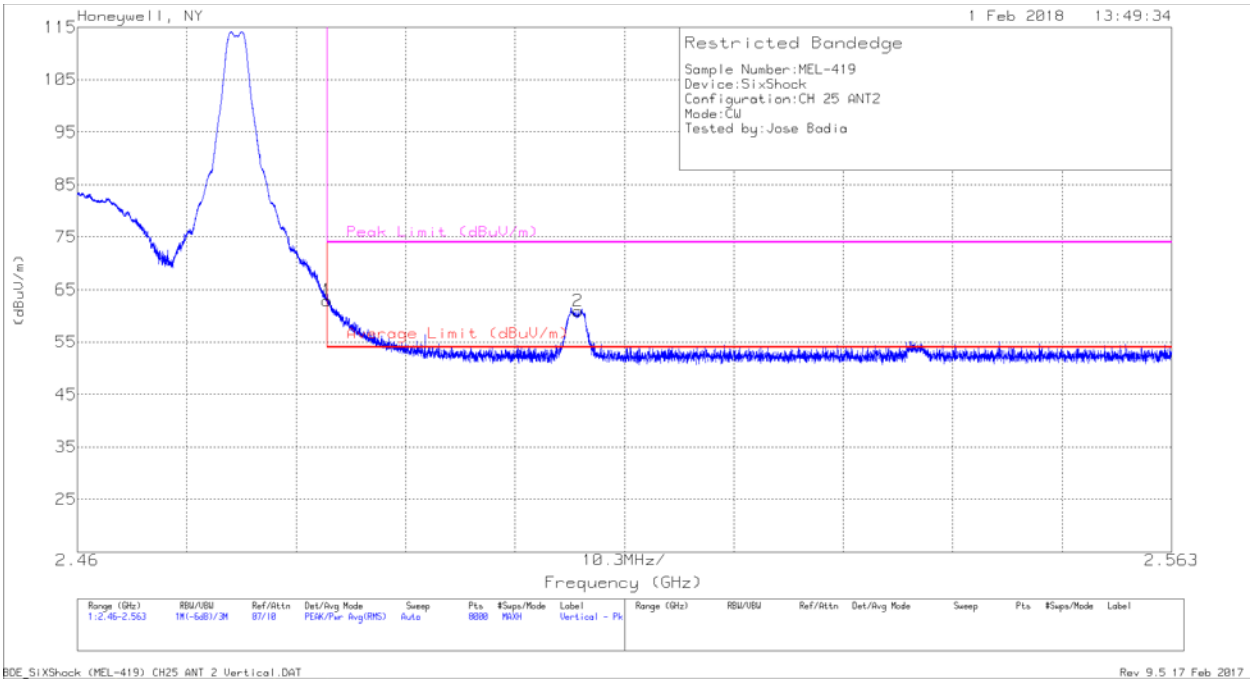
Antenna 2: High Channel Horizontal - Plot

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX3 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	21.21	Pk	28.7	.7	2.6	2.6	-	55.81	74	-18.19	3	398	H
2	2.507	21.81	Pk	28.8	.7	2.7	2.6	-	56.61	74	-17.39	3	398	H
Marker	**Frequency (GHz)**	**Meter Reading (dBuV)**	**Det**	**AF [dB/m]**	**SWBOX3 [dB]**	**SMA7 [dB]**	**SMA5 [dB]**	**DC Corr (dB)**	**Corrected Reading (dBuV/m)**	**Average Limit (dBuV/m)**	**Margin (dB)**	**Azimuth (Degs)**	**Height (cm)**	**Polarity**
1	* 2.484	21.21	Av	28.7	.7	2.6	2.6	-23.1	32.71	54	-21.29	3	398	H
2	2.507	21.81	Av	28.8	.7	2.7	2.6	-23.1	33.51	54	-20.49	3	398	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: High Channel Horizontal – Data



Antenna 2: High Channel Vertical - Plot

Marker	Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX3 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr (dB)	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	* 2.484	28.3	Pk	28.7	.7	2.6	2.6	-	62.9	74	-11.1	65	359	V
2	2.507	26.08	Pk	28.8	.7	2.7	2.6	-	60.88	74	-13.12	65	359	V
Marker	**Frequency (GHz)**	**Meter Reading (dBuV)**	**Det**	**AF [dB/m]**	**SWBOX3 [dB]**	**SMA7 [dB]**	**SMA5 [dB]**	**DC Corr (dB)**	**Corrected Reading (dBuV/m)**	**Average Limit (dBuV/m)**	**Margin (dB)**	**Azimuth (Degs)**	**Height (cm)**	**Polarity**
1	* 2.484	28.3	Av	28.7	.7	2.6	2.6	-23.1	39.8	54	-14.2	65	359	V
2	2.507	26.08	Av	28.8	.7	2.7	2.6	-23.1	37.78	54	-16.22	65	359	V

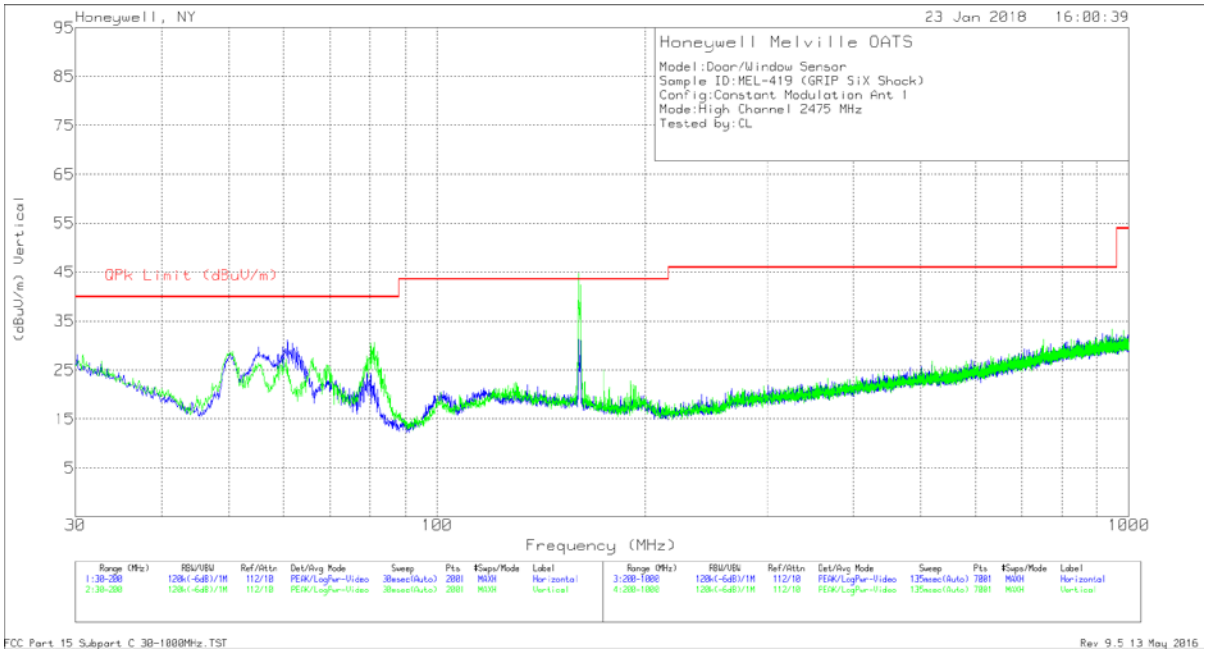
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Pk - Peak detector
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: High Channel Vertical - Data

Spurious Emissions - SiXSHOCK

Below 1GHz (Worse-case)

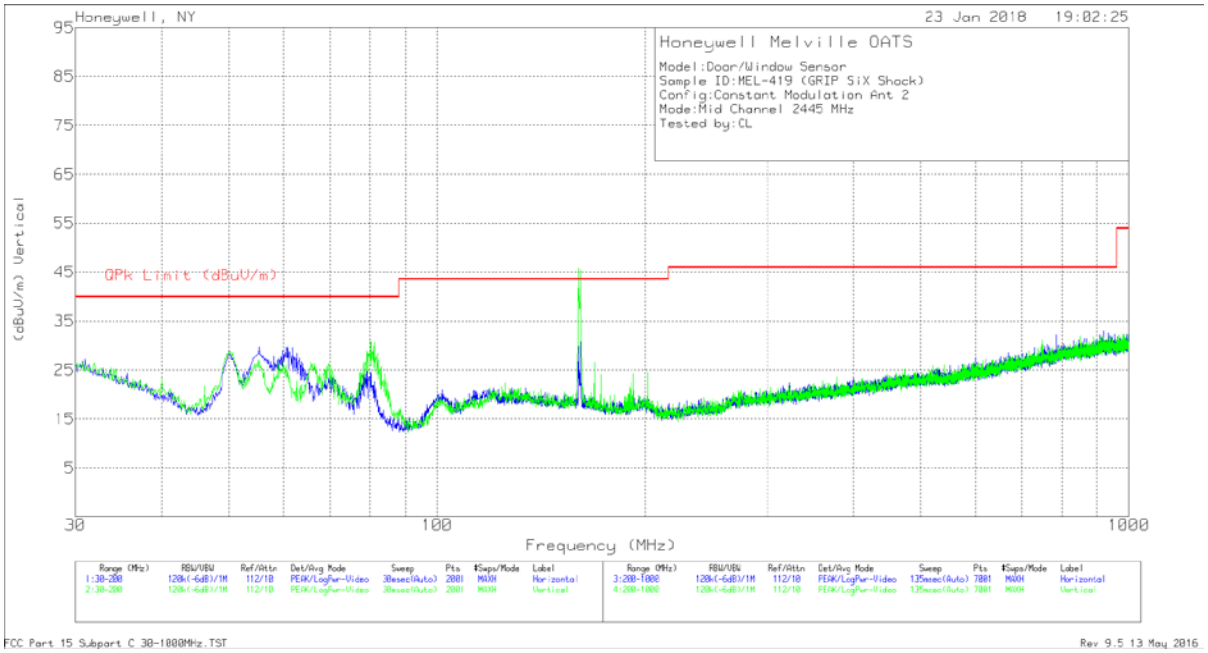


Antenna 1: High Channel - Plot

Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Cable 1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
60.32	1.48	Qp	11.9	1.2	14.58	40	-25.42	235	378	H
160.0059	6.35	Qp	17	2.1	25.45	43.52	-18.07	345	253	H
80.919	21.22	Qp	11.8	1.4	34.42	40	-5.58	306	366	V
159.9941	7.5	Qp	17	2.1	26.6	43.52	-16.92	103	234	V
957.1383	4.52	Qp	27.3	9.2	41.02	46.02	-5	79	323	H
* 983.2382	4.64	Qp	27.7	9	41.34	53.97	-12.63	53	275	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Qp - Quasi-Peak detector

Antenna 1: High Channel – Data



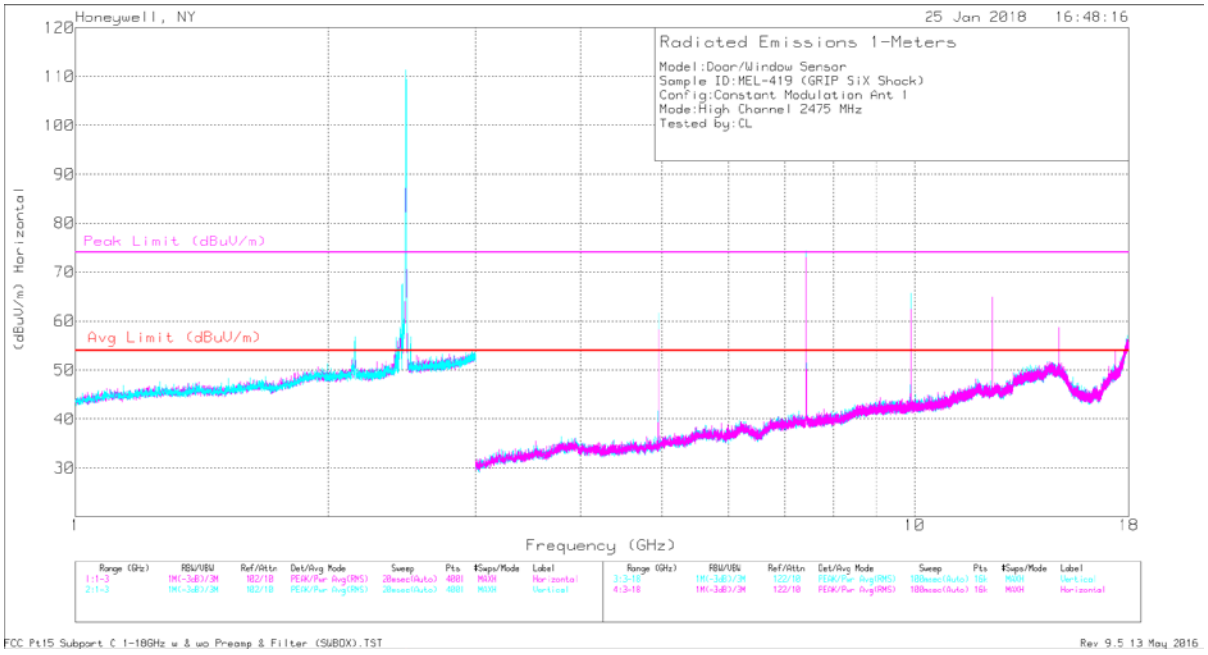
Antenna 2: Mid Channel - Plot

Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Cable 1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
60.3082	1.52	Qp	11.9	1.2	14.62	40	-25.38	66	399	H
161.4167	3.55	Qp	17	2	22.55	43.52	-20.97	49	263	H
80.0074	16.11	Qp	11.9	1.4	29.41	40	-10.59	304	377	V
160.2757	4.13	Qp	17	2.1	23.23	43.52	-20.29	66	100	V
* 968.872	4.55	Qp	27.7	9.2	41.45	53.97	-12.52	244	217	H
749.7102	3.16	Qp	25.5	7.5	36.16	46.02	-9.86	246	198	V

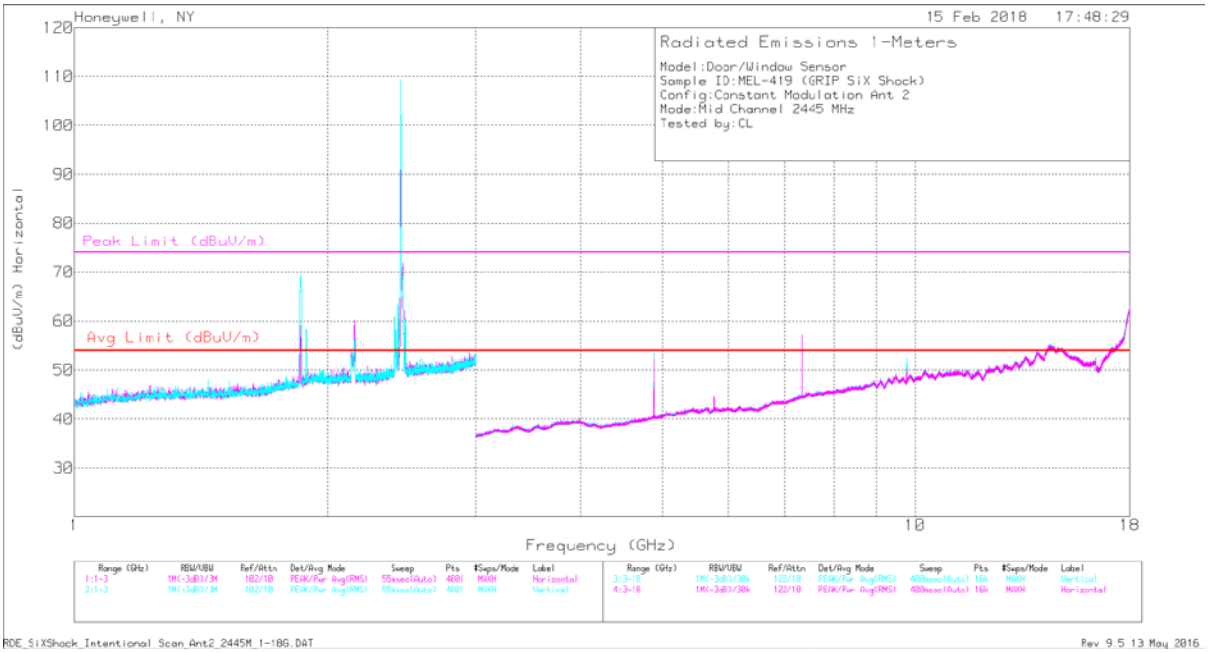
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
Qp - Quasi-Peak detector

Antenna 2: Mid Channel - Data

1-18GHz



Antenna 1: High Channel – Plot



Antenna 2: Mid Channel – Plot

Note: Emissions measured at ~ 1.8GHz and 2.1GHz were found to be ambient and not a product of the transmitter.

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.811	63.29	PK2	33.1	-41.2	3.7	3.7	62.59	74	-11.41	5	356	V
7.216	57.66	PK2	36.2	-39.5	4.7	4.5	63.56	74	-10.44	59	271	V
9.622	50.51	PK2	38	-39	5.6	5.2	60.31	74	-13.69	215	234	V
* 12.023	43.88	PK2	39.4	-37.3	6.5	5.6	58.08	74	-15.92	161	199	V
14.433	39.87	PK2	42.1	-36.9	6.8	6.4	58.27	74	-15.73	146	115	V
16.836	39.42	PK2	39.6	-38.1	7.5	7.1	55.52	74	-18.48	137	178	V
* 4.809	59.25	PK2	33.1	-41.2	3.7	3.7	58.55	74	-15.45	189	140	H
7.214	57.8	PK2	36.2	-39.5	4.7	4.5	63.7	74	-10.3	130	109	H
9.616	52.22	PK2	38	-39	5.6	5.2	62.02	74	-11.98	8	309	H
* 12.027	43.82	PK2	39.4	-37.3	6.5	5.6	58.02	74	-15.98	54	305	H
14.426	41.03	PK2	42.1	-36.9	6.8	6.4	59.43	74	-14.57	113	392	H
16.832	42.65	PK2	39.6	-38.1	7.4	7.1	58.65	74	-15.35	286	319	H

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.811	63.29	Av	33.1	-41.2	3.7	3.7	-23.1	39.49	54	-14.51	5	356	V
7.216	57.66	Av	36.2	-39.5	4.7	4.5	-23.1	40.46	54	-13.54	59	271	V
9.622	50.51	Av	38	-39	5.6	5.2	-23.1	37.21	54	-16.79	215	234	V
* 12.023	43.88	Av	39.4	-37.3	6.5	5.6	-23.1	34.98	54	-19.02	161	199	V
14.433	39.87	Av	42.1	-36.9	6.8	6.4	-23.1	35.17	54	-18.83	146	115	V
16.836	39.42	Av	39.6	-38.1	7.5	7.1	-23.1	32.42	54	-21.58	137	178	V
* 4.809	59.25	Av	33.1	-41.2	3.7	3.7	-23.1	35.45	54	-18.55	189	140	H
7.214	57.8	Av	36.2	-39.5	4.7	4.5	-23.1	40.6	54	-13.4	130	109	H
9.616	52.22	Av	38	-39	5.6	5.2	-23.1	38.92	54	-15.08	8	309	H
* 12.027	43.82	Av	39.4	-37.3	6.5	5.6	-23.1	34.92	54	-19.08	54	305	H
14.426	41.03	Av	42.1	-36.9	6.8	6.4	-23.1	36.33	54	-17.67	113	392	H
16.832	42.65	Av	39.6	-38.1	7.4	7.1	-23.1	35.55	54	-18.45	286	319	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av – Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: Low Channel - Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.891	60.61	PK2	33.2	-41.4	3.7	3.6	59.71	74	-14.29	37	189	H
* 7.333	58.19	PK2	36.6	-39.7	4.6	4.5	64.19	74	-9.81	330	222	H
9.782	44.76	PK2	38.1	-39.1	5.5	5.3	54.56	74	-19.44	316	284	H
* 12.227	43.8	PK2	39.2	-37.2	6.5	5.9	58.2	74	-15.8	116	255	H
14.672	41.04	PK2	42.6	-36.9	6.6	6.4	59.74	74	-14.26	153	148	H
17.111	41.19	PK2	41	-38.1	7.5	7	58.59	74	-15.41	24	260	H
* 4.891	65.47	PK2	33.2	-41.4	3.7	3.6	64.57	74	-9.43	227	395	V
* 7.336	56.53	PK2	36.6	-39.7	4.6	4.5	62.53	74	-11.47	203	245	V
9.778	48.22	PK2	38.1	-39.1	5.5	5.3	58.02	74	-15.98	211	207	V
* 12.223	45.07	PK2	39.2	-37.2	6.5	5.9	59.47	74	-14.53	166	178	V
14.669	40.81	PK2	42.6	-36.9	6.7	6.4	59.61	74	-14.39	359	304	V
17.118	41.08	PK2	41.1	-38.1	7.5	7	58.58	74	-15.42	207	142	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.891	60.61	Av	33.2	-41.4	3.7	3.6	-23.1	36.61	54	-17.39	37	189	H
* 7.333	58.19	Av	36.6	-39.7	4.6	4.5	-23.1	41.09	54	-12.91	330	222	H
9.782	44.76	Av	38.1	-39.1	5.5	5.3	-23.1	31.46	54	-22.54	316	284	H
* 12.227	43.8	Av	39.2	-37.2	6.5	5.9	-23.1	35.1	54	-18.9	116	255	H
14.672	41.04	Av	42.6	-36.9	6.6	6.4	-23.1	36.64	54	-17.36	153	148	H
17.111	41.19	Av	41	-38.1	7.5	7	-23.1	35.49	54	-18.51	24	260	H
* 4.891	65.47	Av	33.2	-41.4	3.7	3.6	-23.1	41.47	54	-12.53	227	395	V
* 7.336	56.53	Av	36.6	-39.7	4.6	4.5	-23.1	39.43	54	-14.57	203	245	V
9.778	48.22	Av	38.1	-39.1	5.5	5.3	-23.1	34.92	54	-19.08	211	207	V
* 12.223	45.07	Av	39.2	-37.2	6.5	5.9	-23.1	36.37	54	-17.63	166	178	V
14.669	40.81	Av	42.6	-36.9	6.7	6.4	-23.1	36.51	54	-17.49	359	304	V
17.118	41.08	Av	41.1	-38.1	7.5	7	-23.1	35.48	54	-18.52	207	142	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av – Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: Mid Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.949	60.67	PK2	33.2	-41.5	3.8	3.7	59.87	74	-14.13	39	194	H
* 7.426	57.93	PK2	36.7	-39.7	4.7	4.6	64.23	74	-9.77	158	361	H
9.902	43.45	PK2	38.2	-39.2	5.5	5.3	53.25	74	-20.75	22	384	H
* 12.377	43.58	PK2	38.9	-37.1	6.5	5.9	57.78	74	-16.22	153	185	H
14.849	41.14	PK2	42	-36.9	6.8	6.5	59.54	74	-14.46	228	236	H
17.321	41.18	PK2	42.4	-38.2	7.5	7.1	59.98	74	-14.02	294	122	H
* 4.949	63.9	PK2	33.2	-41.5	3.8	3.7	63.1	74	-10.9	163	369	V
* 7.423	59.62	PK2	36.7	-39.7	4.7	4.6	65.92	74	-8.08	221	272	V
9.902	43.9	PK2	38.2	-39.2	5.5	5.3	53.7	74	-20.3	151	264	V
* 12.378	43.08	PK2	38.9	-37.1	6.5	5.9	57.28	74	-16.72	119	268	V
14.845	41.36	PK2	42	-36.9	6.8	6.5	59.76	74	-14.24	240	227	V
17.325	40.65	PK2	42.4	-38.2	7.5	7.1	59.45	74	-14.55	249	278	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.949	60.67	Av	33.2	-41.5	3.8	3.7	-23.1	36.77	54	-17.23	39	194	H
* 7.426	57.93	Av	36.7	-39.7	4.7	4.6	-23.1	41.13	54	-12.87	158	361	H
9.902	43.45	Av	38.2	-39.2	5.5	5.3	-23.1	30.15	54	-23.85	22	384	H
* 12.377	43.58	Av	38.9	-37.1	6.5	5.9	-23.1	34.68	54	-19.32	153	185	H
14.849	41.14	Av	42	-36.9	6.8	6.5	-23.1	36.44	54	-17.56	228	236	H
17.321	41.18	Av	42.4	-38.2	7.5	7.1	-23.1	36.88	54	-17.12	294	122	H
* 4.949	63.9	Av	33.2	-41.5	3.8	3.7	-23.1	40	54	-14	163	369	V
* 7.423	59.62	Av	36.7	-39.7	4.7	4.6	-23.1	42.82	54	-11.18	221	272	V
9.902	43.9	Av	38.2	-39.2	5.5	5.3	-23.1	30.6	54	-23.4	151	264	V
* 12.378	43.08	Av	38.9	-37.1	6.5	5.9	-23.1	34.18	54	-19.82	119	268	V
14.845	41.36	Av	42	-36.9	6.8	6.5	-23.1	36.66	54	-17.34	240	227	V
17.325	40.65	Av	42.4	-38.2	7.5	7.1	-23.1	36.35	54	-17.65	249	278	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: High Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 12.03	34.26	PK2	39.4	-37.3	6.5	5.6	48.46	74	-25.54	161	202	V
* 4.811	59.74	PK2	33.1	-41.2	3.7	3.7	59.04	74	-14.96	329	257	H
7.216	58.6	PK2	36.2	-39.5	4.7	4.5	64.5	74	-9.5	4	236	H
9.621	44.83	PK2	38	-39	5.6	5.2	54.63	74	-19.37	134	267	H
* 12.023	42.47	PK2	39.4	-37.3	6.5	5.6	56.67	74	-17.33	328	242	H
14.434	41.18	PK2	42.1	-36.9	6.9	6.4	59.68	74	-14.32	70	216	H
16.832	41.56	PK2	39.6	-38.1	7.4	7.1	57.56	74	-16.44	11	188	H
* 4.809	58.86	PK2	33.1	-41.2	3.7	3.7	58.16	74	-15.84	94	186	V
7.216	54.4	PK2	36.2	-39.5	4.7	4.5	60.3	74	-13.7	331	197	V
9.622	52.96	PK2	38	-39	5.6	5.2	62.76	74	-11.24	352	195	V
14.428	41.56	PK2	42.1	-36.9	6.8	6.4	59.96	74	-14.04	113	111	V
16.84	41.13	PK2	39.6	-38.1	7.5	7.1	57.23	74	-16.77	341	185	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 12.03	34.26	Av	39.4	-37.3	6.5	5.6	-23.1	25.36	54	-28.64	161	202	V
* 4.811	59.74	Av	33.1	-41.2	3.7	3.7	-23.1	35.94	54	-18.06	329	257	H
7.216	58.6	Av	36.2	-39.5	4.7	4.5	-23.1	41.4	54	-12.6	4	236	H
9.621	44.83	Av	38	-39	5.6	5.2	-23.1	31.53	54	-22.47	134	267	H
* 12.023	42.47	Av	39.4	-37.3	6.5	5.6	-23.1	33.57	54	-20.43	328	242	H
14.434	41.18	Av	42.1	-36.9	6.9	6.4	-23.1	36.58	54	-17.42	70	216	H
16.832	41.56	Av	39.6	-38.1	7.4	7.1	-23.1	34.46	54	-19.54	11	188	H
* 4.809	58.86	Av	33.1	-41.2	3.7	3.7	-23.1	35.06	54	-18.94	94	186	V
7.216	54.4	Av	36.2	-39.5	4.7	4.5	-23.1	37.2	54	-16.8	331	197	V
9.622	52.96	Av	38	-39	5.6	5.2	-23.1	39.66	54	-14.34	352	195	V
14.428	41.56	Av	42.1	-36.9	6.8	6.4	-23.1	36.86	54	-17.14	113	111	V
16.84	41.13	Av	39.6	-38.1	7.5	7.1	-23.1	34.13	54	-19.87	341	185	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: Low Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.778	44.97	PK2	38.1	-39.1	5.5	5.3	54.77	74	-19.23	242	210	V
* 4.891	58.23	PK2	33.2	-41.4	3.7	3.6	57.33	74	-16.67	40	189	H
* 7.333	55.98	PK2	36.6	-39.7	4.6	4.5	61.98	74	-12.02	326	228	H
9.778	46.84	PK2	38.1	-39.1	5.5	5.3	56.64	74	-17.36	100	169	H
* 12.223	42.64	PK2	39.2	-37.2	6.5	5.9	57.04	74	-16.96	264	191	H
14.673	41.05	PK2	42.6	-36.9	6.6	6.4	59.75	74	-14.25	246	219	H
17.118	41.91	PK2	41.1	-38.1	7.5	7	59.41	74	-14.59	125	162	H
* 4.891	62.6	PK2	33.2	-41.4	3.7	3.6	61.7	74	-12.3	211	375	V
* 7.336	53.64	PK2	36.6	-39.7	4.6	4.5	59.64	74	-14.36	196	367	V
* 12.223	41.7	PK2	39.2	-37.2	6.5	5.9	56.1	74	-17.9	171	309	V
14.674	41.12	PK2	42.6	-36.9	6.6	6.4	59.82	74	-14.18	336	342	V
17.111	41.44	PK2	41.1	-38.1	7.5	7	58.94	74	-15.06	143	125	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
9.778	44.97	Av	38.1	-39.1	5.5	5.3	-23.1	31.67	54	-22.33	242	210	V
* 4.891	58.23	Av	33.2	-41.4	3.7	3.6	-23.1	34.23	54	-19.77	40	189	H
* 7.333	55.98	Av	36.6	-39.7	4.6	4.5	-23.1	38.88	54	-15.12	326	228	H
9.778	46.84	Av	38.1	-39.1	5.5	5.3	-23.1	33.54	54	-20.46	100	169	H
* 12.223	42.64	Av	39.2	-37.2	6.5	5.9	-23.1	33.94	54	-20.06	264	191	H
14.673	41.05	Av	42.6	-36.9	6.6	6.4	-23.1	36.65	54	-17.35	246	219	H
17.118	41.91	Av	41.1	-38.1	7.5	7	-23.1	36.31	54	-17.69	125	162	H
* 4.891	62.6	Av	33.2	-41.4	3.7	3.6	-23.1	38.6	54	-15.4	211	375	V
* 7.336	53.64	Av	36.6	-39.7	4.6	4.5	-23.1	36.54	54	-17.46	196	367	V
* 12.223	41.7	Av	39.2	-37.2	6.5	5.9	-23.1	33	54	-21	171	309	V
14.674	41.12	Av	42.6	-36.9	6.6	6.4	-23.1	36.72	54	-17.28	336	342	V
17.111	41.44	Av	41.1	-38.1	7.5	7	-23.1	35.84	54	-18.16	143	125	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: Mid Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 12.372	42.13	PK2	39	-37.1	6.5	5.9	56.43	74	-17.57	62	329	H
14.847	40.86	PK2	42	-36.9	6.8	6.5	59.26	74	-14.74	29	368	H
17.329	40.34	PK2	42.4	-38.2	7.5	7.1	59.14	74	-14.86	136	219	H
* 4.949	62.65	PK2	33.2	-41.5	3.8	3.7	61.85	74	-12.15	179	368	V
* 7.426	50.88	PK2	36.7	-39.7	4.7	4.6	57.18	74	-16.82	321	365	V
* 12.374	38.45	PK2	38.9	-37.1	6.5	5.9	52.65	74	-21.35	194	265	V
14.847	39.29	PK2	42	-36.9	6.8	6.5	57.69	74	-16.31	146	113	V
17.32	39.1	PK2	42.4	-38.2	7.5	7.1	57.9	74	-16.1	145	167	V
9.898	47.69	PK2	38.2	-39.2	5.5	5.2	57.39	74	-16.61	346	185	V
* 4.949	57.27	PK2	33.2	-41.5	3.8	3.7	56.47	74	-17.53	196	106	H
* 7.424	51.68	PK2	36.7	-39.7	4.7	4.6	57.98	74	-16.02	135	334	H
9.902	43.56	PK2	38.2	-39.2	5.5	5.3	53.36	74	-20.64	344	306	H

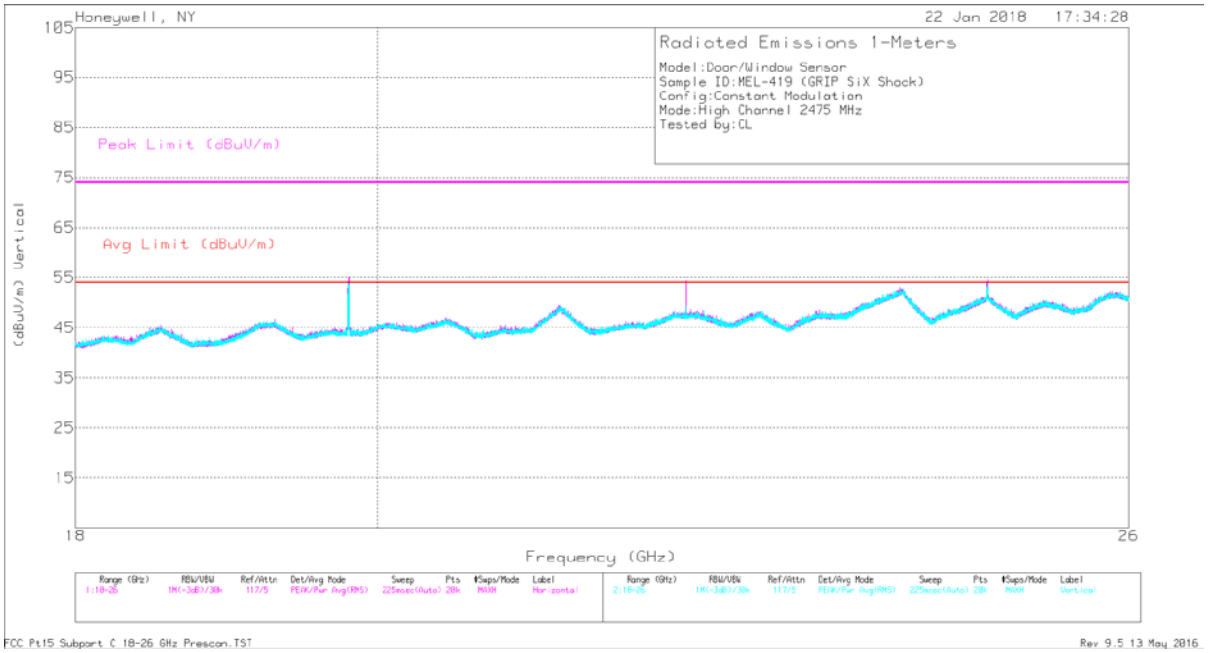
Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 12.372	42.13	Av	39	-37.1	6.5	5.9	-23.1	33.33	54	-20.67	62	329	H
14.847	40.86	Av	42	-36.9	6.8	6.5	-23.1	36.16	54	-17.84	29	368	H
17.329	40.34	Av	42.4	-38.2	7.5	7.1	-23.1	36.04	54	-17.96	136	219	H
* 4.949	62.65	Av	33.2	-41.5	3.8	3.7	-23.1	38.75	54	-15.25	179	368	V
* 7.426	50.88	Av	36.7	-39.7	4.7	4.6	-23.1	34.08	54	-19.92	321	365	V
* 12.374	38.45	Av	38.9	-37.1	6.5	5.9	-23.1	29.55	54	-24.45	194	265	V
14.847	39.29	Av	42	-36.9	6.8	6.5	-23.1	34.59	54	-19.41	146	113	V
17.32	39.1	Av	42.4	-38.2	7.5	7.1	-23.1	34.8	54	-19.2	145	167	V
9.898	47.69	Av	38.2	-39.2	5.5	5.2	-23.1	34.29	54	-19.71	346	185	V
* 4.949	57.27	Av	33.2	-41.5	3.8	3.7	-23.1	33.37	54	-20.63	196	106	H
* 7.424	51.68	Av	36.7	-39.7	4.7	4.6	-23.1	34.88	54	-19.12	135	334	H
9.902	43.56	Av	38.2	-39.2	5.5	5.3	-23.1	30.26	54	-23.74	344	306	H

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

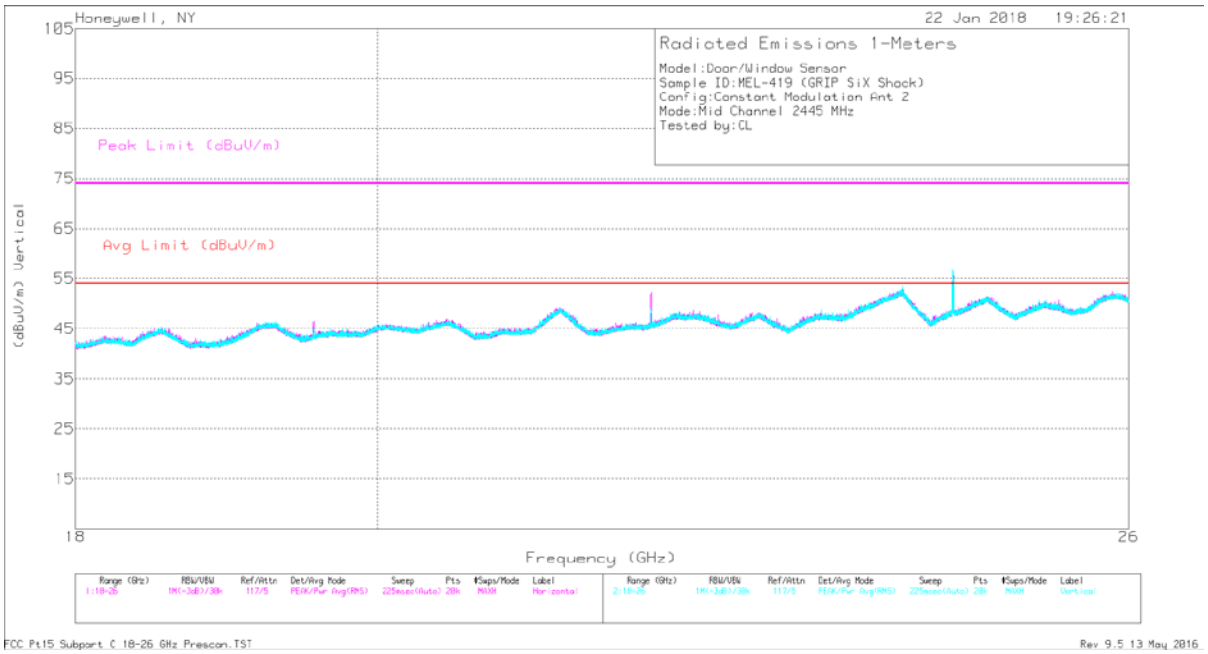
Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: High Channel – Data

18-26GHz



Antenna 1: High Channel - Plot



Antenna 2: Mid Channel - Plot

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.24	38.06	PK2	44.1	-34.9	7.8	8.1	-9.5	53.66	74	-20.34	106	310	H
21.645	37.49	PK2	44.4	-36.1	8.8	8	-9.5	53.09	74	-20.91	48	103	H
24.05	38.22	PK2	46.4	-31	8.8	8.4	-9.5	61.32	74	-12.68	226	200	H
* 19.245	37.53	PK2	44.1	-34.8	7.8	8.1	-9.5	53.23	74	-20.77	332	217	V
21.642	37.76	PK2	44.4	-36.1	8.8	8	-9.5	53.36	74	-20.64	241	285	V
24.048	38.65	PK2	46.4	-31	8.8	8.4	-9.5	61.75	74	-12.25	133	271	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.24	38.06	Av	44.1	-34.9	7.8	8.1	-9.5	-23.1	30.56	54	-23.44	106	310	H
21.645	37.49	Av	44.4	-36.1	8.8	8	-9.5	-23.1	29.99	54	-24.01	48	103	H
24.05	38.22	Av	46.4	-31	8.8	8.4	-9.5	-23.1	38.22	54	-15.78	226	200	H
* 19.245	37.53	Av	44.1	-34.8	7.8	8.1	-9.5	-23.1	30.13	54	-23.87	332	217	V
21.642	37.76	Av	44.4	-36.1	8.8	8	-9.5	-23.1	30.26	54	-23.74	241	285	V
24.048	38.65	Av	46.4	-31	8.8	8.4	-9.5	-23.1	38.65	54	-15.35	133	271	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: Low Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.56	37.38	PK2	44.3	-36.8	8.1	8.3	-9.5	51.78	74	-22.22	353	168	H
22.005	29.25	PK2	44.5	-35.9	8.5	8.4	-9.5	45.25	74	-28.75	121	165	H
24.45	39.33	PK2	46.5	-35.4	8.9	8.6	-9.5	58.43	74	-15.57	280	112	H
* 19.558	37.25	PK2	44.3	-36.8	8.1	8.3	-9.5	51.65	74	-22.35	325	135	V
22.001	23.48	PK2	44.5	-35.9	8.5	8.4	-9.5	39.48	74	-34.52	159	111	V
24.447	39.36	PK2	46.5	-35.4	8.9	8.6	-9.5	58.46	74	-15.54	212	297	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.56	37.38	Av	44.3	-36.8	8.1	8.3	-9.5	-23.1	28.68	54	-25.32	353	168	H
22.005	29.25	Av	44.5	-35.9	8.5	8.4	-9.5	-23.1	22.15	54	-31.85	121	165	H
24.45	39.33	Av	46.5	-35.4	8.9	8.6	-9.5	-23.1	35.33	54	-18.67	280	112	H
* 19.558	37.25	Av	44.3	-36.8	8.1	8.3	-9.5	-23.1	28.55	54	-25.45	325	135	V
22.001	23.48	Av	44.5	-35.9	8.5	8.4	-9.5	-23.1	16.38	54	-37.62	159	111	V
24.447	39.36	Av	46.5	-35.4	8.9	8.6	-9.5	-23.1	35.36	54	-18.64	212	297	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: Mid Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.796	37.21	PK2	44.2	-36.6	8	8.4	-9.5	51.71	74	-22.29	255	121	H
* 22.271	37.89	PK2	44.9	-34.5	8.2	8.5	-9.5	55.49	74	-18.51	247	103	H
24.753	39.74	PK2	46.7	-32.5	9.3	8.7	-9.5	62.44	74	-11.56	301	111	H
* 19.8	37.71	PK2	44.2	-36.6	8	8.4	-9.5	52.21	74	-21.79	247	305	V
* 22.275	37.96	PK2	44.9	-34.6	8.2	8.5	-9.5	55.46	74	-18.54	289	134	V
24.75	39.93	PK2	46.7	-32.4	9.3	8.7	-9.5	62.73	74	-11.27	252	100	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	DCorr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.796	37.21	Av	44.2	-36.6	8	8.4	-9.5	-23.1	28.61	54	-25.39	255	121	H
* 22.271	37.89	Av	44.9	-34.5	8.2	8.5	-9.5	-23.1	32.39	54	-21.61	247	103	H
24.753	39.74	Av	46.7	-32.5	9.3	8.7	-9.5	-23.1	39.34	54	-14.66	301	111	H
* 19.8	37.71	Av	44.2	-36.6	8	8.4	-9.5	-23.1	29.11	54	-24.89	247	305	V
* 22.275	37.96	Av	44.9	-34.6	8.2	8.5	-9.5	-23.1	32.36	54	-21.64	289	134	V
24.75	39.93	Av	46.7	-32.4	9.3	8.7	-9.5	-23.1	39.63	54	-14.37	252	100	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: High Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.239	37.56	PK2	44.1	-34.9	7.8	8.1	-9.5	53.16	74	-20.84	263	193	H
21.648	37.92	PK2	44.4	-36.1	8.8	8.1	-9.5	53.62	74	-20.38	277	277	H
24.048	38.55	PK2	46.4	-31	8.8	8.4	-9.5	61.65	74	-12.35	60	319	H
* 19.244	37.22	PK2	44.1	-34.8	7.8	8.1	-9.5	52.92	74	-21.08	180	276	V
21.644	37.85	PK2	44.4	-36.1	8.8	8	-9.5	53.45	74	-20.55	241	103	V
24.055	38.76	PK2	46.4	-31.1	8.8	8.4	-9.5	61.76	74	-12.24	282	164	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.239	37.56	Av	44.1	-34.9	7.8	8.1	-9.5	-23.1	30.06	54	-23.94	263	193	H
21.648	37.92	Av	44.4	-36.1	8.8	8.1	-9.5	-23.1	30.52	54	-23.48	277	277	H
24.048	38.55	Av	46.4	-31	8.8	8.4	-9.5	-23.1	38.55	54	-15.45	60	319	H
* 19.244	37.22	Av	44.1	-34.8	7.8	8.1	-9.5	-23.1	29.82	54	-24.18	180	276	V
21.644	37.85	Av	44.4	-36.1	8.8	8	-9.5	-23.1	30.35	54	-23.65	241	103	V
24.055	38.76	Av	46.4	-31.1	8.8	8.4	-9.5	-23.1	38.66	54	-15.34	282	164	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: Low Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.56	32.05	PK2	44.3	-36.8	8.1	8.3	-9.5	46.45	74	-27.55	300	121	H
22.005	38.53	PK2	44.5	-35.9	8.5	8.4	-9.5	54.53	74	-19.47	114	155	H
24.45	31	PK2	46.5	-35.4	8.9	8.6	-9.5	50.1	74	-23.9	298	148	H
* 19.56	37.36	PK2	44.3	-36.8	8.1	8.3	-9.5	51.76	74	-22.24	55	140	V
22.005	38.62	PK2	44.5	-35.9	8.5	8.4	-9.5	54.62	74	-19.38	313	115	V
24.45	39.63	PK2	46.5	-35.4	8.9	8.6	-9.5	58.73	74	-15.27	194	285	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.56	32.05	Av	44.3	-36.8	8.1	8.3	-9.5	-23.1	23.35	54	-30.65	300	121	H
22.005	38.53	Av	44.5	-35.9	8.5	8.4	-9.5	-23.1	31.43	54	-22.57	114	155	H
24.45	31	Av	46.5	-35.4	8.9	8.6	-9.5	-23.1	27	54	-27	298	148	H
* 19.56	37.36	Av	44.3	-36.8	8.1	8.3	-9.5	-23.1	28.66	54	-25.34	55	140	V
22.005	38.62	Av	44.5	-35.9	8.5	8.4	-9.5	-23.1	31.52	54	-22.48	313	115	V
24.45	39.63	Av	46.5	-35.4	8.9	8.6	-9.5	-23.1	35.63	54	-18.37	194	285	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: Mid Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.8	37.98	PK2	44.2	-36.6	8	8.4	-9.5	52.48	74	-21.52	289	329	H
* 22.275	38.21	PK2	44.9	-34.6	8.2	8.5	-9.5	55.71	74	-18.29	141	166	H
24.75	40.37	PK2	46.7	-32.4	9.3	8.7	-9.5	63.17	74	-10.83	286	130	H
* 19.8	38.29	PK2	44.2	-36.6	8	8.4	-9.5	52.79	74	-21.21	103	388	V
* 22.275	38.06	PK2	44.9	-34.6	8.2	8.5	-9.5	55.56	74	-18.44	83	380	V
24.75	40.22	PK2	46.6	-32.4	9.3	8.7	-9.5	62.92	74	-11.08	241	329	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.8	37.98	Av	44.2	-36.6	8	8.4	-9.5	-23.1	29.38	54	-24.62	289	329	H
* 22.275	38.21	Av	44.9	-34.6	8.2	8.5	-9.5	-23.1	32.61	54	-21.39	141	166	H
24.75	40.37	Av	46.7	-32.4	9.3	8.7	-9.5	-23.1	40.07	54	-13.93	286	130	H
* 19.8	38.29	Av	44.2	-36.6	8	8.4	-9.5	-23.1	29.69	54	-24.31	103	388	V
* 22.275	38.06	Av	44.9	-34.6	8.2	8.5	-9.5	-23.1	32.46	54	-21.54	83	380	V
24.75	40.22	Av	46.6	-32.4	9.3	8.7	-9.5	-23.1	39.82	54	-14.18	241	329	V

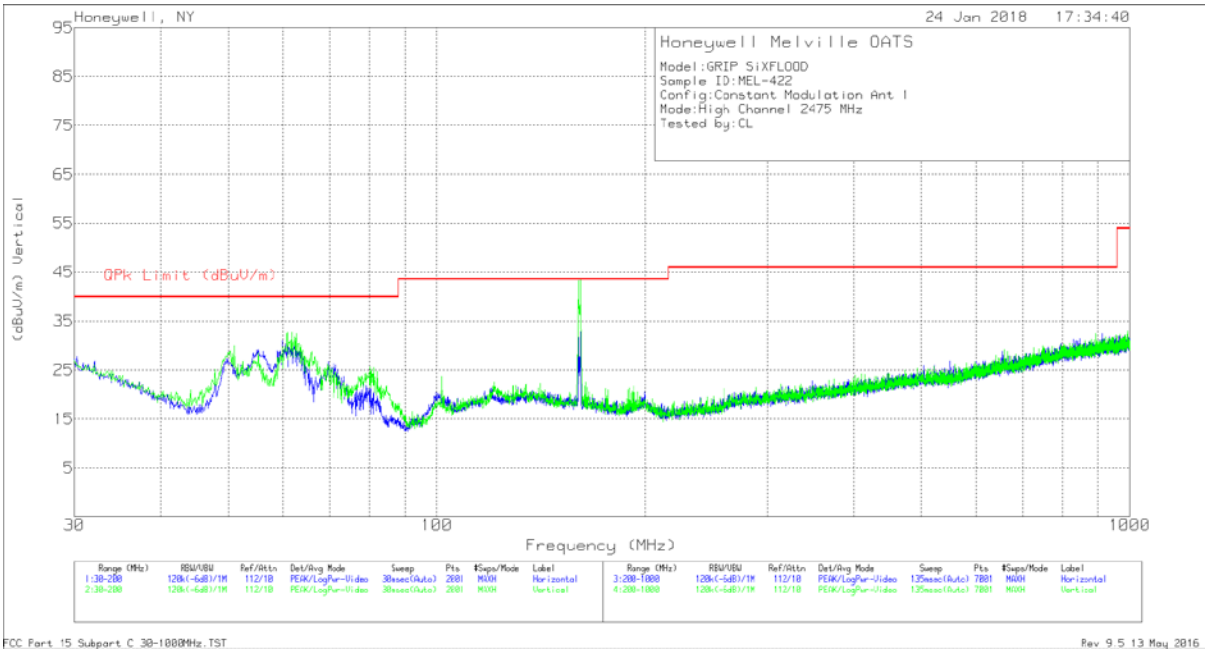
* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: High Channel – Data

Spurious Emissions - SiXFLOOD

Below 1GHz (Worse-case)

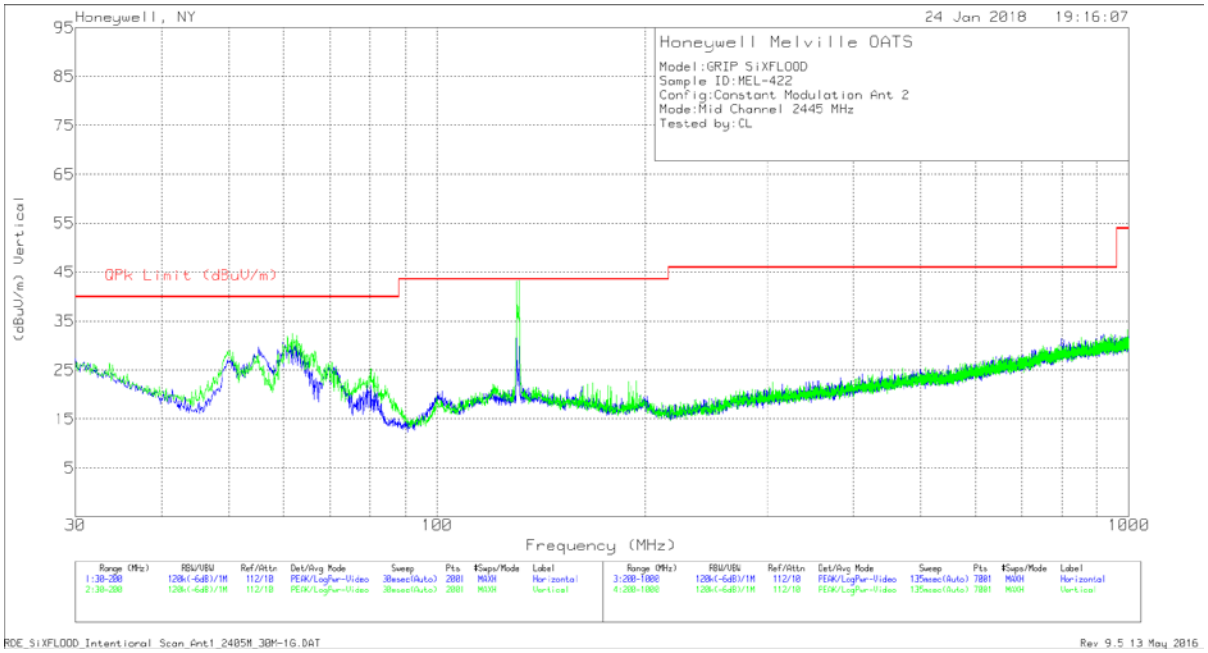


Antenna 1: High Channel - Plot

Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Cable 1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
60.294	.57	Qp	11.9	1.2	13.67	40	-26.33	34	352	H
161.2089	3.8	Qp	17	2.1	22.9	43.52	-20.62	292	313	H
62.1091	7.81	Qp	12	1.2	21.01	40	-18.99	317	157	V
161.5766	4.59	Qp	17	2	23.59	43.52	-19.93	83	284	V
951.415	4.43	Qp	27.4	9.2	41.03	46.02	-4.99	107	206	V
959.7134	4.49	Qp	27.3	9.2	40.99	46.02	-5.03	210	398	V

Qp - Quasi-Peak detector

Antenna 1: High Channel – Data



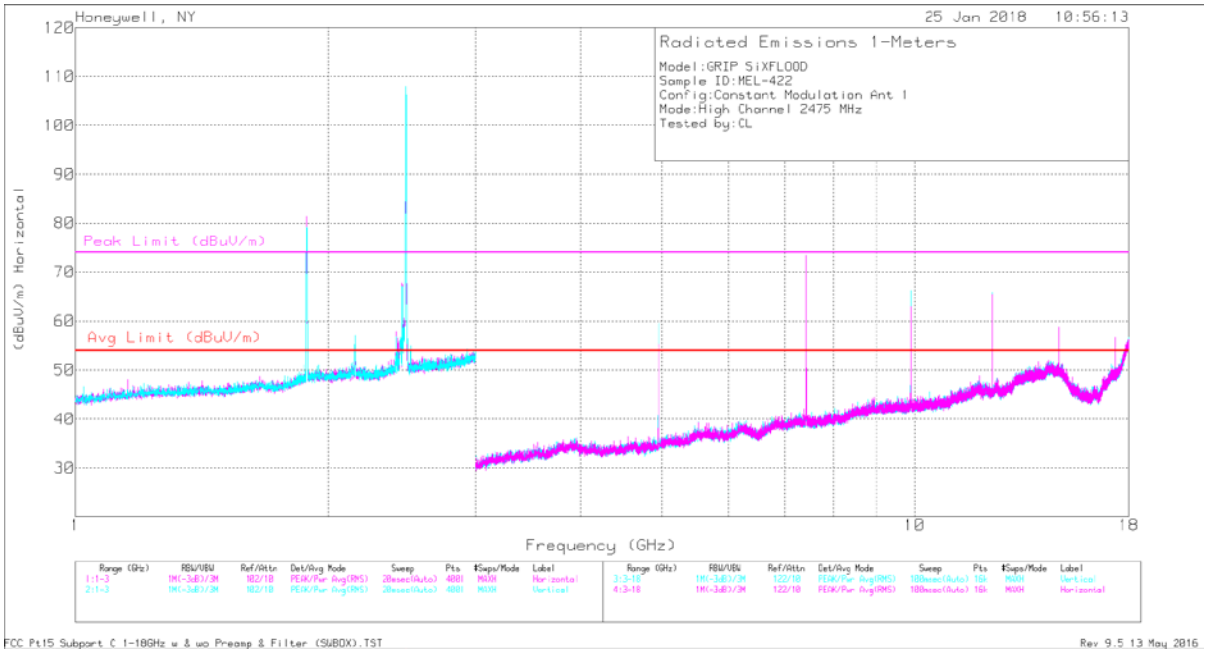
Antenna 2: Mid Channel - Plot

Frequency (MHz)	Meter Reading (dBuV)	Det	AF [dB/m]	Cable 1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
130.21	5.36	Qp	17.7	1.8	24.86	43.52	-18.66	64	182	H
60.34	2.65	Qp	11.9	1.2	15.75	40	-24.25	207	384	H
62.119	7.65	Qp	12	1.2	20.85	40	-19.15	359	158	V
131.1632	5.32	Qp	17.7	1.8	24.82	43.52	-18.7	256	111	V
956.2607	4.5	Qp	27.3	9.2	41	46.02	-5.02	117	284	H
950.9527	4.45	Qp	27.4	9.2	41.05	46.02	-4.97	193	309	V

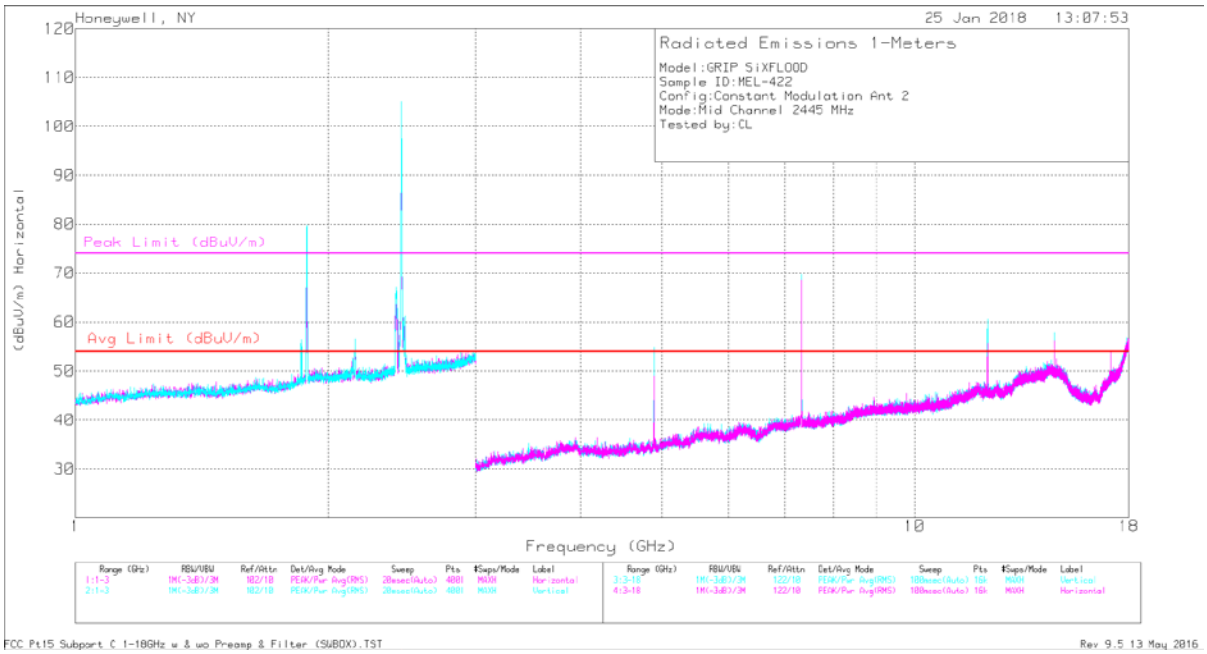
Qp - Quasi-Peak detector

Antenna 2: Mid Channel - Data

1-18GHz



Antenna 1: High Channel – Plot



Antenna 2: Mid Channel – Plot

Note: Emissions measured at ~ 1.8GHz and 2.1GHz were found to be ambient and not a product of the transmitter.

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.811	53.99	PK2	33.1	-41.2	3.7	3.7	53.29	74	-20.71	295	135	H
7.213	60.96	PK2	36.2	-39.5	4.7	4.5	66.86	74	-7.14	229	111	H
9.618	44.48	PK2	38	-39	5.6	5.2	54.28	74	-19.72	250	118	H
* 12.027	42.94	PK2	39.4	-37.3	6.5	5.6	57.14	74	-16.86	249	151	H
14.431	39.39	PK2	42.1	-36.9	6.8	6.4	57.79	74	-16.21	24	147	H
16.83	40.63	PK2	39.6	-38.1	7.4	7.1	56.63	74	-17.37	91	334	H
* 4.811	62.64	PK2	33.1	-41.2	3.7	3.7	61.94	74	-12.06	174	379	V
7.216	60.6	PK2	36.2	-39.5	4.7	4.5	66.5	74	-7.5	213	247	V
9.618	35.98	PK2	38	-39	5.6	5.2	45.78	74	-28.22	279	232	V
* 12.022	40.68	PK2	39.4	-37.3	6.5	5.6	54.88	74	-19.12	298	137	V
14.426	39.66	PK2	42.1	-36.9	6.8	6.4	58.06	74	-15.94	83	209	V
16.839	39.52	PK2	39.6	-38.1	7.5	7.1	55.62	74	-18.38	66	341	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.811	53.99	Av	33.1	-41.2	3.7	3.7	-23.1	30.19	54	-23.81	295	135	H
7.213	60.96	Av	36.2	-39.5	4.7	4.5	-23.1	43.76	54	-10.24	229	111	H
9.618	44.48	Av	38	-39	5.6	5.2	-23.1	31.18	54	-22.82	250	118	H
* 12.027	42.94	Av	39.4	-37.3	6.5	5.6	-23.1	34.04	54	-19.96	249	151	H
14.431	39.39	Av	42.1	-36.9	6.8	6.4	-23.1	34.69	54	-19.31	24	147	H
16.83	40.63	Av	39.6	-38.1	7.4	7.1	-23.1	33.53	54	-20.47	91	334	H
* 4.811	62.64	Av	33.1	-41.2	3.7	3.7	-23.1	38.84	54	-15.16	174	379	V
7.216	60.6	Av	36.2	-39.5	4.7	4.5	-23.1	43.4	54	-10.6	213	247	V
9.618	35.98	Av	38	-39	5.6	5.2	-23.1	22.68	54	-31.32	279	232	V
* 12.022	40.68	Av	39.4	-37.3	6.5	5.6	-23.1	31.78	54	-22.22	298	137	V
14.426	39.66	Av	42.1	-36.9	6.8	6.4	-23.1	34.96	54	-19.04	83	209	V
16.839	39.52	Av	39.6	-38.1	7.5	7.1	-23.1	32.52	54	-21.48	66	341	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av – Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: Low Channel - Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.891	59.08	PK2	33.2	-41.4	3.7	3.6	58.18	74	-15.82	331	257	H
* 7.333	59.84	PK2	36.6	-39.7	4.6	4.5	65.84	74	-8.16	206	119	H
9.778	43.11	PK2	38.1	-39.1	5.5	5.3	52.91	74	-21.09	249	127	H
* 12.225	37.56	PK2	39.2	-37.2	6.5	5.9	51.96	74	-22.04	234	117	H
14.67	39.41	PK2	42.6	-36.9	6.7	6.4	58.21	74	-15.79	57	103	H
17.118	39.44	PK2	41.1	-38.1	7.5	7	56.94	74	-17.06	170	137	H
* 4.891	60.51	PK2	33.2	-41.4	3.7	3.6	59.61	74	-14.39	88	137	V
* 7.333	61.95	PK2	36.6	-39.7	4.6	4.5	67.95	74	-6.05	73	249	V
9.778	45.21	PK2	38.1	-39.1	5.5	5.3	55.01	74	-18.99	137	244	V
* 12.222	43.87	PK2	39.2	-37.2	6.5	5.9	58.27	74	-15.73	170	214	V
14.673	39.76	PK2	42.6	-36.9	6.6	6.4	58.46	74	-15.54	79	156	V
17.113	39.78	PK2	41.1	-38.1	7.5	7	57.28	74	-16.72	19	124	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.891	59.08	PK2	33.2	-41.4	3.7	3.6	-23.1	35.08	54	-18.92	331	257	H
* 7.333	59.84	PK2	36.6	-39.7	4.6	4.5	-23.1	42.74	54	-11.26	206	119	H
9.778	43.11	PK2	38.1	-39.1	5.5	5.3	-23.1	29.81	54	-24.19	249	127	H
* 12.225	37.56	PK2	39.2	-37.2	6.5	5.9	-23.1	28.86	54	-25.14	234	117	H
14.67	39.41	PK2	42.6	-36.9	6.7	6.4	-23.1	35.11	54	-18.89	57	103	H
17.118	39.44	PK2	41.1	-38.1	7.5	7	-23.1	33.84	54	-20.16	170	137	H
* 4.891	60.51	PK2	33.2	-41.4	3.7	3.6	-23.1	36.51	54	-17.49	88	137	V
* 7.333	61.95	PK2	36.6	-39.7	4.6	4.5	-23.1	44.85	54	-9.15	73	249	V
9.778	45.21	PK2	38.1	-39.1	5.5	5.3	-23.1	31.91	54	-22.09	137	244	V
* 12.222	43.87	PK2	39.2	-37.2	6.5	5.9	-23.1	35.17	54	-18.83	170	214	V
14.673	39.76	PK2	42.6	-36.9	6.6	6.4	-23.1	35.36	54	-18.64	79	156	V
17.113	39.78	PK2	41.1	-38.1	7.5	7	-23.1	34.18	54	-19.82	19	124	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av – Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: Mid Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.949	58.69	PK2	33.2	-41.5	3.8	3.7	57.89	74	-16.11	39	211	H
* 7.426	59.74	PK2	36.7	-39.7	4.7	4.6	66.04	74	-7.96	303	213	H
9.902	43.01	PK2	38.2	-39.2	5.5	5.3	52.81	74	-21.19	326	236	H
* 12.372	43.51	PK2	39	-37.1	6.5	5.9	57.81	74	-16.19	335	268	H
14.854	39.26	PK2	42	-36.9	6.8	6.5	57.66	74	-16.34	113	197	H
17.327	39.63	PK2	42.4	-38.2	7.5	7.1	58.43	74	-15.57	169	246	H
* 4.949	63.73	PK2	33.2	-41.5	3.8	3.7	62.93	74	-11.07	202	343	V
* 7.423	58.63	PK2	36.7	-39.7	4.7	4.6	64.93	74	-9.07	206	253	V
9.898	45.67	PK2	38.2	-39.2	5.5	5.2	55.37	74	-18.63	205	256	V
* 12.377	42.71	PK2	38.9	-37.1	6.5	5.9	56.91	74	-17.09	178	247	V
14.848	39.47	PK2	42	-36.9	6.8	6.5	57.87	74	-16.13	147	237	V
17.323	39.16	PK2	42.4	-38.2	7.5	7.1	57.96	74	-16.04	137	344	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.949	58.69	PK2	33.2	-41.5	3.8	3.7	-23.1	34.79	54	-19.21	39	211	H
* 7.426	59.74	PK2	36.7	-39.7	4.7	4.6	-23.1	42.94	54	-11.06	303	213	H
9.902	43.01	PK2	38.2	-39.2	5.5	5.3	-23.1	29.71	54	-24.29	326	236	H
* 12.372	43.51	PK2	39	-37.1	6.5	5.9	-23.1	34.71	54	-19.29	335	268	H
14.854	39.26	PK2	42	-36.9	6.8	6.5	-23.1	34.56	54	-19.44	113	197	H
17.327	39.63	PK2	42.4	-38.2	7.5	7.1	-23.1	35.33	54	-18.67	169	246	H
* 4.949	63.73	PK2	33.2	-41.5	3.8	3.7	-23.1	39.83	54	-14.17	202	343	V
* 7.423	58.63	PK2	36.7	-39.7	4.7	4.6	-23.1	41.83	54	-12.17	206	253	V
9.898	45.67	PK2	38.2	-39.2	5.5	5.2	-23.1	32.27	54	-21.73	205	256	V
* 12.377	42.71	PK2	38.9	-37.1	6.5	5.9	-23.1	33.81	54	-20.19	178	247	V
14.848	39.47	PK2	42	-36.9	6.8	6.5	-23.1	34.77	54	-19.23	147	237	V
17.323	39.16	PK2	42.4	-38.2	7.5	7.1	-23.1	34.86	54	-19.14	137	344	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: High Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.809	55.61	PK2	33.1	-41.2	3.7	3.7	54.91	74	-19.09	354	232	H
7.216	54.77	PK2	36.2	-39.5	4.7	4.5	60.67	74	-13.33	39	243	H
9.618	49.53	PK2	38	-39	5.6	5.2	59.33	74	-14.67	351	243	H
* 12.023	43.14	PK2	39.4	-37.3	6.5	5.6	57.34	74	-16.66	170	114	H
14.434	41.94	PK2	42.1	-36.9	6.8	6.4	60.34	74	-13.66	341	261	H
16.833	40.96	PK2	39.6	-38.1	7.4	7.1	56.96	74	-17.04	185	266	H
* 4.811	62.03	PK2	33.1	-41.2	3.7	3.7	61.33	74	-12.67	207	315	V
7.216	55.53	PK2	36.2	-39.5	4.7	4.5	61.43	74	-12.57	96	248	V
9.618	49.75	PK2	38	-39	5.6	5.2	59.55	74	-14.45	201	116	V
* 12.027	42.92	PK2	39.4	-37.3	6.5	5.6	57.12	74	-16.88	158	130	V
14.429	41.28	PK2	42.1	-36.9	6.8	6.4	59.68	74	-14.32	175	209	V
16.839	41	PK2	39.6	-38.1	7.5	7.1	57.1	74	-16.9	214	300	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.809	55.61	Av	33.1	-41.2	3.7	3.7	-23.1	31.81	54	-22.19	354	232	H
7.216	54.77	Av	36.2	-39.5	4.7	4.5	-23.1	37.57	54	-16.43	39	243	H
9.618	49.53	Av	38	-39	5.6	5.2	-23.1	36.23	54	-17.77	351	243	H
* 12.023	43.14	Av	39.4	-37.3	6.5	5.6	-23.1	34.24	54	-19.76	170	114	H
14.434	41.94	Av	42.1	-36.9	6.8	6.4	-23.1	37.24	54	-16.76	341	261	H
16.833	40.96	Av	39.6	-38.1	7.4	7.1	-23.1	33.86	54	-20.14	185	266	H
* 4.811	62.03	Av	33.1	-41.2	3.7	3.7	-23.1	38.23	54	-15.77	207	315	V
7.216	55.53	Av	36.2	-39.5	4.7	4.5	-23.1	38.33	54	-15.67	96	248	V
9.618	49.75	Av	38	-39	5.6	5.2	-23.1	36.45	54	-17.55	201	116	V
* 12.027	42.92	Av	39.4	-37.3	6.5	5.6	-23.1	34.02	54	-19.98	158	130	V
14.429	41.28	Av	42.1	-36.9	6.8	6.4	-23.1	36.58	54	-17.42	175	209	V
16.839	41	Av	39.6	-38.1	7.5	7.1	-23.1	34	54	-20	214	300	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: Low Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.889	56.76	PK2	33.2	-41.4	3.7	3.6	55.86	74	-18.14	181	312	H
* 7.333	51.66	PK2	36.6	-39.7	4.6	4.5	57.66	74	-16.34	83	326	H
9.778	47.1	PK2	38.1	-39.1	5.5	5.3	56.9	74	-17.1	319	370	H
* 12.227	28.42	PK2	39.2	-37.2	6.5	5.9	42.82	74	-31.18	127	385	H
14.669	40.99	PK2	42.6	-36.9	6.7	6.4	59.79	74	-14.21	107	196	H
17.112	41.04	PK2	41.1	-38.1	7.5	7	58.54	74	-15.46	298	307	H
* 4.891	62.11	PK2	33.2	-41.4	3.7	3.6	61.21	74	-12.79	207	272	V
* 7.336	49	PK2	36.6	-39.7	4.6	4.5	55	74	-19	182	400	V
9.778	47.39	PK2	38.1	-39.1	5.5	5.3	57.19	74	-16.81	248	374	V
* 12.228	41.87	PK2	39.2	-37.2	6.5	5.9	56.27	74	-17.73	221	397	V
14.673	33.65	PK2	42.6	-36.9	6.6	6.4	52.35	74	-21.65	162	342	V
17.12	41.46	PK2	41.1	-38.2	7.5	7	58.86	74	-15.14	316	256	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.889	56.76	Av	33.2	-41.4	3.7	3.6	-23.1	32.76	54	-21.24	181	312	H
* 7.333	51.66	Av	36.6	-39.7	4.6	4.5	-23.1	34.56	54	-19.44	83	326	H
9.778	47.1	Av	38.1	-39.1	5.5	5.3	-23.1	33.8	54	-20.2	319	370	H
* 12.227	28.42	Av	39.2	-37.2	6.5	5.9	-23.1	19.72	54	-34.28	127	385	H
14.669	40.99	Av	42.6	-36.9	6.7	6.4	-23.1	36.69	54	-17.31	107	196	H
17.112	41.04	Av	41.1	-38.1	7.5	7	-23.1	35.44	54	-18.56	298	307	H
* 4.891	62.11	Av	33.2	-41.4	3.7	3.6	-23.1	38.11	54	-15.89	207	272	V
* 7.336	49	Av	36.6	-39.7	4.6	4.5	-23.1	31.9	54	-22.1	182	400	V
9.778	47.39	Av	38.1	-39.1	5.5	5.3	-23.1	34.09	54	-19.91	248	374	V
* 12.228	41.87	Av	39.2	-37.2	6.5	5.9	-23.1	33.17	54	-20.83	221	397	V
14.673	33.65	Av	42.6	-36.9	6.6	6.4	-23.1	29.25	54	-24.75	162	342	V
17.12	41.46	Av	41.1	-38.2	7.5	7	-23.1	35.76	54	-18.24	316	256	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: Mid Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.949	56.56	PK2	33.2	-41.5	3.8	3.7	55.76	74	-18.24	5	205	H
* 7.424	39.94	PK2	36.7	-39.7	4.7	4.6	46.24	74	-27.76	354	212	H
9.898	45.36	PK2	38.2	-39.2	5.5	5.2	55.06	74	-18.94	352	349	H
* 12.378	30.62	PK2	38.9	-37.1	6.5	5.9	44.82	74	-29.18	15	145	H
14.85	40.94	PK2	42	-36.9	6.8	6.5	59.34	74	-14.66	137	284	H
17.322	27.81	PK2	42.4	-38.2	7.5	7.1	46.61	74	-27.39	79	145	H
* 4.951	62.89	PK2	33.2	-41.5	3.8	3.7	62.09	74	-11.91	181	279	V
* 7.423	54.21	PK2	36.7	-39.7	4.7	4.6	60.51	74	-13.49	210	263	V
9.898	46.63	PK2	38.2	-39.2	5.5	5.2	56.33	74	-17.67	218	281	V
* 12.372	40.76	PK2	39	-37.1	6.5	5.9	55.06	74	-18.94	147	103	V
14.854	40.79	PK2	42	-36.9	6.8	6.5	59.19	74	-14.81	216	197	V
17.326	41.83	PK2	42.4	-38.2	7.5	7.1	60.63	74	-13.37	194	304	V

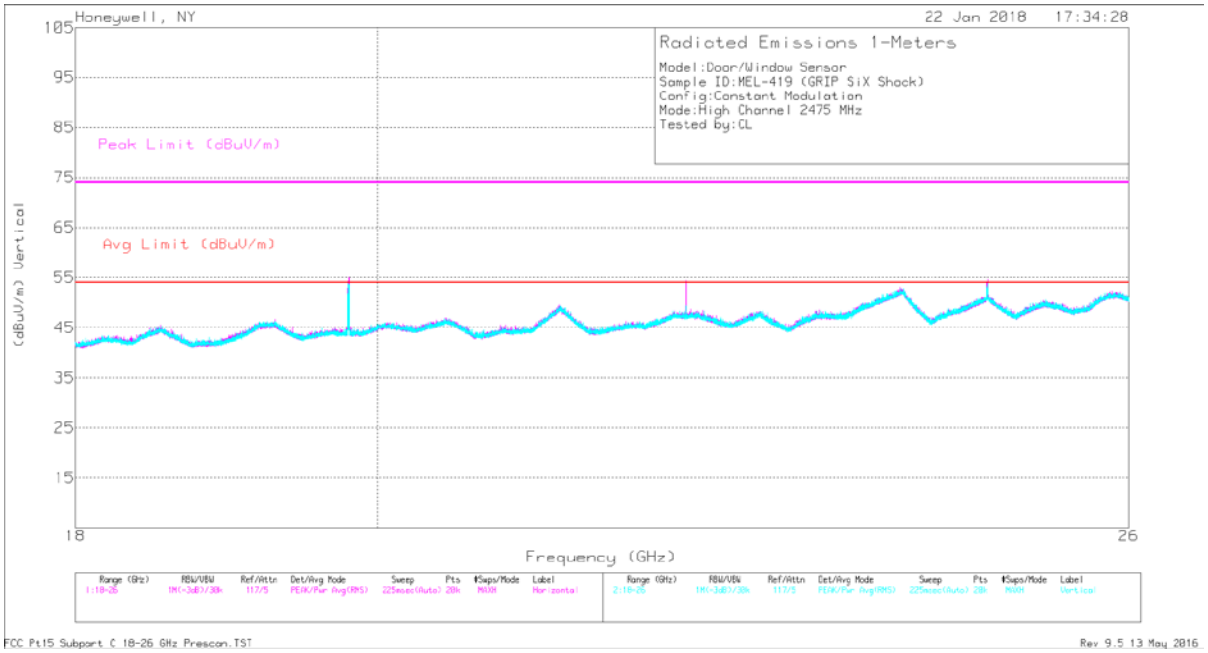
Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX2 [dB]	SMA7 [dB]	SMA5 [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 4.949	56.56	Av	33.2	-41.5	3.8	3.7	-23.1	32.66	54	-21.34	5	205	H
* 7.424	39.94	Av	36.7	-39.7	4.7	4.6	-23.1	23.14	54	-30.86	354	212	H
9.898	45.36	Av	38.2	-39.2	5.5	5.2	-23.1	31.96	54	-22.04	352	349	H
* 12.378	30.62	Av	38.9	-37.1	6.5	5.9	-23.1	21.72	54	-32.28	15	145	H
14.85	40.94	Av	42	-36.9	6.8	6.5	-23.1	36.24	54	-17.76	137	284	H
17.322	27.81	Av	42.4	-38.2	7.5	7.1	-23.1	23.51	54	-30.49	79	145	H
* 4.951	62.89	Av	33.2	-41.5	3.8	3.7	-23.1	38.99	54	-15.01	181	279	V
* 7.423	54.21	Av	36.7	-39.7	4.7	4.6	-23.1	37.41	54	-16.59	210	263	V
9.898	46.63	Av	38.2	-39.2	5.5	5.2	-23.1	33.23	54	-20.77	218	281	V
* 12.372	40.76	Av	39	-37.1	6.5	5.9	-23.1	31.96	54	-22.04	147	103	V
14.854	40.79	Av	42	-36.9	6.8	6.5	-23.1	36.09	54	-17.91	216	197	V
17.326	41.83	Av	42.4	-38.2	7.5	7.1	-23.1	37.53	54	-16.47	194	304	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

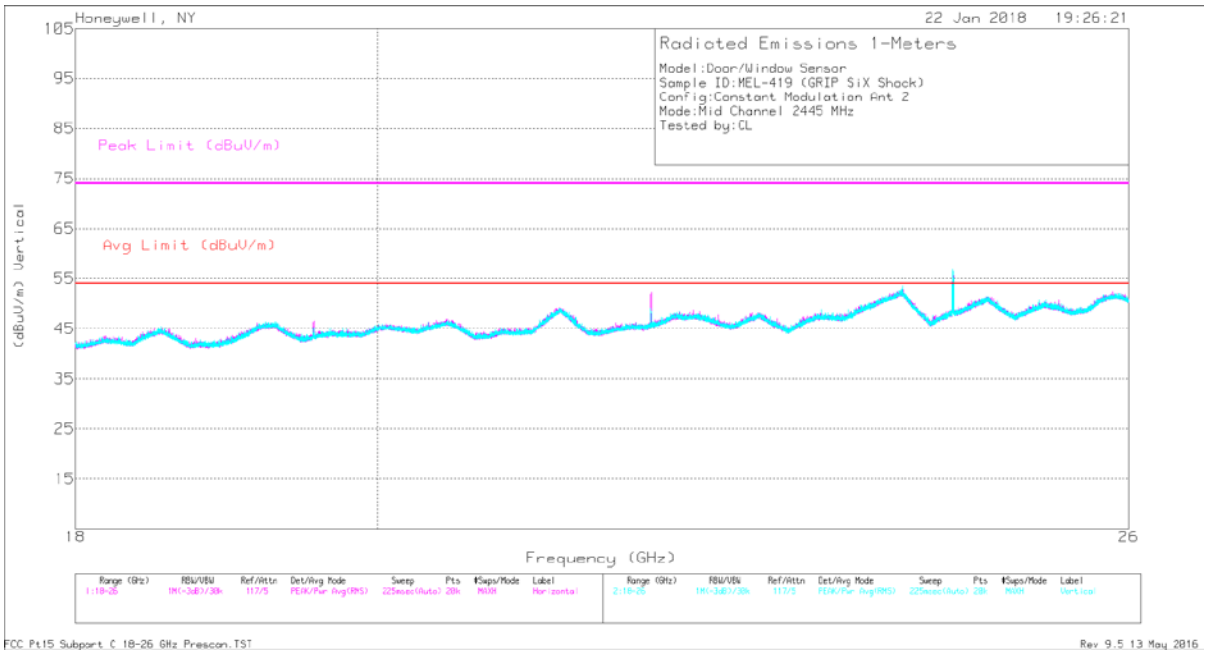
Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: High Channel – Data

18-26GHz



Antenna 1: High Channel - Plot



Antenna 2: Mid Channel - Plot

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.235	34.87	PK2	44.1	9	-34.9	8.1	-9.5	51.67	74	-22.33	241	162	H
21.639	36.33	PK2	44.4	9	-36.1	8	-9.5	52.13	74	-21.87	0	100	H
24.046	37.54	PK2	46.4	9.8	-30.9	8.4	-9.5	61.74	74	-12.26	175	100	H
* 19.244	34.81	PK2	44.1	9	-34.8	8.1	-9.5	51.71	74	-22.29	147	100	V
21.65	35.66	PK2	44.4	9.1	-36.1	8.1	-9.5	51.66	74	-22.34	202	100	V
24.046	38.17	PK2	46.4	9.8	-30.9	8.4	-9.5	62.37	74	-11.63	95	100	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.235	34.87	Av	44.1	9	-34.9	8.1	-9.5	-23.1	28.57	54	-25.43	241	162	H
21.639	36.33	Av	44.4	9	-36.1	8	-9.5	-23.1	29.03	54	-24.97	0	100	H
24.046	37.54	Av	46.4	9.8	-30.9	8.4	-9.5	-23.1	38.64	54	-15.36	175	100	H
* 19.244	34.81	Av	44.1	9	-34.8	8.1	-9.5	-23.1	28.61	54	-25.39	147	100	V
21.65	35.66	Av	44.4	9.1	-36.1	8.1	-9.5	-23.1	28.56	54	-25.44	202	100	V
24.046	38.17	Av	46.4	9.8	-30.9	8.4	-9.5	-23.1	39.27	54	-14.73	95	100	V

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PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: Low Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.553	35.31	PK2	44.3	-36.8	8.1	8.3	-9.5	49.71	74	-24.29	279	294	H
22.006	37.25	PK2	44.5	-35.9	8.5	8.4	-9.5	53.25	74	-20.75	165	200	H
24.45	38.88	PK2	46.5	-35.4	8.9	8.6	-9.5	57.98	74	-16.02	189	152	H
* 19.561	35.31	PK2	44.3	-36.8	8.1	8.3	-9.5	49.71	74	-24.29	330	309	V
22	37.11	PK2	44.5	-35.9	8.5	8.4	-9.5	53.11	74	-20.89	37	289	V
24.456	38.19	PK2	46.5	-35.3	8.9	8.6	-9.5	57.39	74	-16.61	198	116	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.553	35.31	Av	44.3	-36.8	8.1	8.3	-9.5	-23.1	26.61	54	-27.39	279	294	H
22.006	37.25	Av	44.5	-35.9	8.5	8.4	-9.5	-23.1	30.15	54	-23.85	165	200	H
24.45	38.88	Av	46.5	-35.4	8.9	8.6	-9.5	-23.1	34.88	54	-19.12	189	152	H
* 19.561	35.31	Av	44.3	-36.8	8.1	8.3	-9.5	-23.1	26.61	54	-27.39	330	309	V
22	37.11	Av	44.5	-35.9	8.5	8.4	-9.5	-23.1	30.01	54	-23.99	37	289	V
24.456	38.19	Av	46.5	-35.3	8.9	8.6	-9.5	-23.1	34.29	54	-19.71	198	116	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: Mid Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.798	35.73	PK2	44.2	-36.6	8	8.4	-9.5	50.23	74	-23.77	203	326	H
* 22.281	36.27	PK2	44.9	-34.6	8.2	8.5	-9.5	53.77	74	-20.23	224	108	H
24.75	39.68	PK2	46.7	-32.4	9.3	8.7	-9.5	62.48	74	-11.52	57	288	H
* 19.796	36.55	PK2	44.2	-36.6	8	8.4	-9.5	51.05	74	-22.95	64	330	V
* 22.275	36.27	PK2	44.9	-34.6	8.2	8.5	-9.5	53.77	74	-20.23	206	309	V
24.748	39.57	PK2	46.6	-32.4	9.3	8.7	-9.5	62.27	74	-11.73	59	327	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.798	35.73	PK2	44.2	-36.6	8	8.4	-9.5	-23.1	27.13	54	-26.87	203	326	H
* 22.281	36.27	PK2	44.9	-34.6	8.2	8.5	-9.5	-23.1	30.67	54	-23.33	224	108	H
24.75	39.68	PK2	46.7	-32.4	9.3	8.7	-9.5	-23.1	39.38	54	-14.62	57	288	H
* 19.796	36.55	PK2	44.2	-36.6	8	8.4	-9.5	-23.1	27.95	54	-26.05	64	330	V
* 22.275	36.27	PK2	44.9	-34.6	8.2	8.5	-9.5	-23.1	30.67	54	-23.33	206	309	V
24.748	39.57	PK2	46.6	-32.4	9.3	8.7	-9.5	-23.1	39.17	54	-14.83	59	327	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band
PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 1: High Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.239	34.93	PK2	44.1	-34.9	7.8	8.1	-9.5	50.53	74	-23.47	319	220	H
21.651	36.35	PK2	44.4	-36.1	8.8	8.1	-9.5	52.05	74	-21.95	166	384	H
24.051	37.59	PK2	46.4	-31	8.8	8.4	-9.5	60.69	74	-13.31	2	145	H
* 19.24	35.27	PK2	44.1	-34.9	7.8	8.1	-9.5	50.87	74	-23.13	277	159	V
21.65	36.75	PK2	44.4	-36.1	8.8	8.1	-9.5	52.45	74	-21.55	109	200	V
24.054	37.5	PK2	46.4	-31.1	8.8	8.4	-9.5	60.5	74	-13.5	280	385	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.239	34.93	Av	44.1	-34.9	7.8	8.1	-9.5	-23.1	27.43	54	-26.57	319	220	H
21.651	36.35	Av	44.4	-36.1	8.8	8.1	-9.5	-23.1	28.95	54	-25.05	166	384	H
24.051	37.59	Av	46.4	-31	8.8	8.4	-9.5	-23.1	37.59	54	-16.41	2	145	H
* 19.24	35.27	Av	44.1	-34.9	7.8	8.1	-9.5	-23.1	27.77	54	-26.23	277	159	V
21.65	36.75	Av	44.4	-36.1	8.8	8.1	-9.5	-23.1	29.35	54	-24.65	109	200	V
24.054	37.5	Av	46.4	-31.1	8.8	8.4	-9.5	-23.1	37.4	54	-16.6	280	385	V

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PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: Low Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.558	32.16	PK2	44.3	-36.8	8.1	8.3	-9.5	46.56	74	-27.44	183	282	H
22.001	37.71	PK2	44.5	-35.9	8.5	8.4	-9.5	53.71	74	-20.29	342	385	H
24.452	39.35	PK2	46.5	-35.4	8.9	8.6	-9.5	58.45	74	-15.55	213	188	H
* 19.563	37.28	PK2	44.3	-36.8	8.1	8.3	-9.5	51.68	74	-22.32	263	107	V
22.006	37.98	PK2	44.5	-35.9	8.5	8.4	-9.5	53.98	74	-20.02	69	207	V
24.446	39.28	PK2	46.5	-35.4	8.9	8.6	-9.5	58.38	74	-15.62	348	369	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.558	32.16	Av	44.3	-36.8	8.1	8.3	-9.5	-23.1	23.46	54	-30.54	183	282	H
22.001	37.71	Av	44.5	-35.9	8.5	8.4	-9.5	-23.1	30.61	54	-23.39	342	385	H
24.452	39.35	Av	46.5	-35.4	8.9	8.6	-9.5	-23.1	35.35	54	-18.65	213	188	H
* 19.563	37.28	Av	44.3	-36.8	8.1	8.3	-9.5	-23.1	28.58	54	-25.42	263	107	V
22.006	37.98	Av	44.5	-35.9	8.5	8.4	-9.5	-23.1	30.88	54	-23.12	69	207	V
24.446	39.28	Av	46.5	-35.4	8.9	8.6	-9.5	-23.1	35.28	54	-18.72	348	369	V

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PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: Mid Channel – Data

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	Corrected Reading (dBuV/m)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.801	37.94	PK2	44.2	-36.6	8.1	8.4	-9.5	52.54	74	-21.46	181	159	H
* 22.271	37.54	PK2	44.9	-34.5	8.2	8.5	-9.5	55.14	74	-18.86	343	147	H
24.754	28.83	PK2	46.7	-32.5	9.3	8.7	-9.5	51.53	74	-22.47	330	176	H
* 19.8	37.74	PK2	44.2	-36.6	8	8.4	-9.5	52.24	74	-21.76	110	382	V
* 22.275	37.89	PK2	44.9	-34.6	8.2	8.5	-9.5	55.39	74	-18.61	5	308	V
24.75	32.97	PK2	46.7	-32.4	9.3	8.7	-9.5	55.77	74	-18.23	258	152	V

Frequency (GHz)	Meter Reading (dBuV)	Det	AF EM-6963 [dB/m]	SMA7 [dB]	18-26G Preamp [dB]	SMA5 [dB]	Dist Corr [dB]	DC Corr [dB]	Corrected Reading (dBuV/m)	Average Limit (dBuV/m)	Av Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 19.801	37.94	Av	44.2	-36.6	8.1	8.4	-9.5	-23.1	29.44	54	-24.56	181	159	H
* 22.271	37.54	Av	44.9	-34.5	8.2	8.5	-9.5	-23.1	32.04	54	-21.96	343	147	H
24.754	28.83	Av	46.7	-32.5	9.3	8.7	-9.5	-23.1	28.43	54	-25.57	330	176	H
* 19.8	37.74	Av	44.2	-36.6	8	8.4	-9.5	-23.1	29.14	54	-24.86	110	382	V
* 22.275	37.89	Av	44.9	-34.6	8.2	8.5	-9.5	-23.1	32.29	54	-21.71	5	308	V
24.75	32.97	Av	46.7	-32.4	9.3	8.7	-9.5	-23.1	32.67	54	-21.33	258	152	V

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PK2 - KDB558074 Method: Maximum Peak
Av - Peak + DC Corr (Duty Cycle Correction Factor)

Duty Cycle = 6.976%, thus DC Corr = 20log(0.06976) = -23.1dB

Antenna 2: High Channel – Data

END OF REPORT