

Honeywell Home

FCC / ISED Test Report

For

GRIP 5" AIO Panel

Report #: 50346-A6

FCC ID: CFS8DL-GRIPAI05

IC ID: 573F-GRIPAI05

Report Completion Date: 2018-12-07

Prepared by and for:

Ademco Inc.

2 Corporate Center Dr.

Suite 100 PO Box 9040

Melville, NY 11747



Testing

NVLAP Lab Code: 600110

Document Introduction

Ademco Inc. 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 Ademco Inc. 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 Ademco Inc. 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 by Ademco Inc. and all revisions are duly noted in the revisions section. Any alterations of this document not carried out by Ademco Inc. 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	2018-12-07

Report Authorization

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Applicable Test Standards/Limits

Test Standards/Limits	Result	Dates Tested
ANSI C63.10: 2013	Compliant	11/01/2018 – 12/05/2018
RSS-247, Issue 2, Section 5	Compliant	11/01/2018 – 12/05/2018
RSS-GEN, Issue 4	Compliant	11/01/2018 – 12/05/2018
CFR 47 Pt 15 Subpart C, Section 15.207/209	Compliant	11/01/2018 – 12/05/2018
CFR 47 Pt 15 Subpart C, Section 15.247	Compliant	11/01/2018 – 12/05/2018

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. Ademco Inc. 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 Global Residential Intrusion Platform (GRIP) 5" All-In-One (AIO) solution consists of a panel with a built-in touch screen display. The panel consists of a main PCB board that contains components (Display, camera, microphones, speaker) to support features such as video and audio, interfaces to external devices/sensors (sensors, devices, and cameras) and wireless communicators. The EUT is AC powered with a battery back-up.

There are three (3) on-board radios - Bluetooth (LE), RF6 and Wiselink. Plug-in modules can support WiFi, Z-Wave and cellular communications. This report will cover the Wiselink portion of the EUT. This report contains only radiated data. Conducted data is being leveraged from a previous certification (FCC ID: CFS8DL-GRIPAI07, IC: 573F-GRIPAI07) based on similarities. See test report exhibit titled "AIO 7-INCH EXHIBIT 5-3A FCC_ISED Test Report Wiselink" for details.

The Wiselink circuitry contains a single integral PCB antenna with a gain of 4.7dBi.

Worse-Case Configuration & Mode

Radiated emissions was performed with the EUT set to transmit at the low/mid/high channels with the highest output power as worst-case scenario. The EUT has a typical installation orientation of vertical (i.e. wall-mounted or standing upright on desktop). Therefore, all final radiated test was performed with the EUT in the vertical orientation. See setup photos for details. The AC powered configuration proved to be the worse-case configuration and was tested as such.

Test Sample Identification

Sample ID Number	Sample Serial Number	Date Received
MEL-576	Non-serialized production unit	10/08/2018

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	Radiated Emissions (Intentional)	PASS
2	Conducted Emissions (Mains)	PASS

Test & Measurement Equipment

The following test and measurement equipment was utilized for the tests documented in this report:

Equipment List

Instrument Type	ID #	Serial #	Manufacturer	Model	Cal Date	Cal Due Date
RF Lab (RF power & Conducted Measurements)						
Spectrum Analyzer	11531	MY41000078	Agilent	E4440A	06/06/17	06/06/19
Power Sensor	11568	105317	Rohde & Schwarz	NRP-Z81	10/02/18	10/02/19
Attenuator	-	1624	Pasternack	PE7087-6	*	*
RF Chamber						
Spectrum Analyzer	11496	100303	Rohde & Schwarz	FSU26	04/11/18	04/11/19
Loop Antenna (9kHz-30MHz)	11535	121080	Com-Power	AL-130R	10/29/18	10/29/19
Bilog Antenna (30MHz-5GHz)	11311	A022406	Sunol	JB5	02/01/18	02/01/19
Horn Antenna (1-18GHz)	2319	2317	EMCO	3115	01/10/18	01/10/19
Horn Antenna (18-40GHz)	11472	151	EMCO	EM-6963	02/14/18	02/14/19
Preamp (10-4200MHz)	11537	1603006	Mini Circuits	TVA-11-422	*	*
Preamp (500MHz-18GHz)	11557	18040034	Com-Power	PAM-118A	*	*
Preamp (18-40GHz)	11541	160911	Amplical	AMP18G40-35	*	*
Band Reject Filter	11553	G041	Micro-tronics	BRM50702-01	*	*
RF Cable	-	-	Mini-Circuits	RDE#2	*	*
RF Cable	-	-	Insulated Wire	SMA#8	*	*
OATS						
Spectrum Analyzer	11545	103125	Rohde & Schwarz	FSW26	02/21/18	02/21/19
Bilog Antenna (30MHz-6GHz)	11534	A012816	Sunol	JB6	03/27/18	03/27/19
Horn Antenna (1-18GHz)	2973	3127	EMCO	RGA-60	01/22/18	01/22/19
Horn Antenna (18-40GHz)	11472	151	EMCO	EM-6963	02/14/18	02/14/19
Preamp (100kHz-1.3GHz)	11540	2443AUF555	HP	8447D	*	*
Preamp (1-18GHz)	11539	160362	Amplical	AMP1G18-35	*	*
Preamp	11541	160911	Amplical	AMP18G40-35	*	*

(18-40GHz)						
High Pass Filter	11552	G018	Micro-tronics	HPM50111-01	*	*
RF Cable	-	-	Pasternack	RDE#1	*	*
RF Cable	-	-	MegaPhase	EMC2-S1S1-360	*	*
Shield Room						
EMI Receiver	11566	102484	Rohde & Schwarz	ESR3	09/19/18	09/19/19
LISN	11527	241259	Com-Power	LIN-120A	01/10/18	01/10/19
Misc.						
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

*-Passive devices & Preamps are characterized in-house, not calibrated.

On Time and Duty Cycle

Test Description

Refer to KDB 558074 Zero-Span Analyzer Method.

Test Criteria

Reference	Limit
KDB 558074, Section 6	None, for reporting only

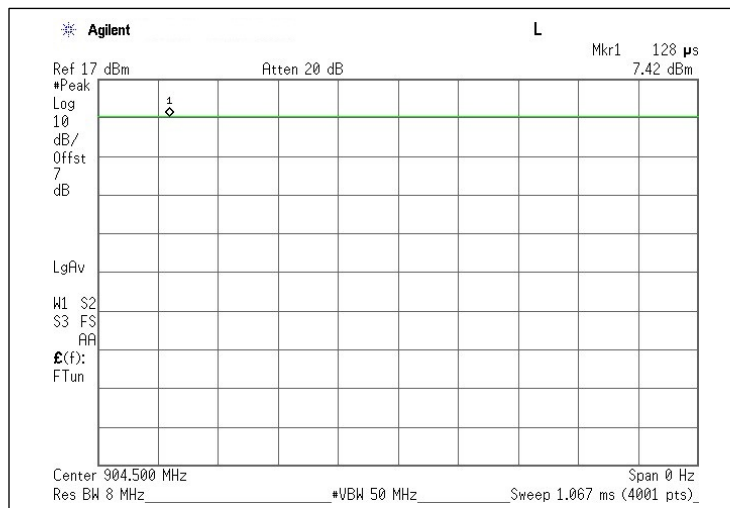
Test Information

Tester	Test Location	Date	Temperature (°C)	Humidity (%RH)	Pressure (mbar)	Results (P/F)
MA	RF Lab	12/10/18	23	14.6	1010	P

Test Results

On Time (usec)	Period (usec)	Duty Cycle	Duty Cycle (%)
128	128	1	100

Duty Cycle 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 10 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		
	Frequency Range (MHz)	Field Strength Limit (uV/m)	Measurement distance (meters)
CFR 47 Subpart C, 15.205 CFR 47 Subpart C, 15.209 RSS-GEN	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 (°C)	Humidity (%RH)	Pressure (mbar)	Results (P/F)
CL/JB	RF Chamber/OATS	11/06/18-12/04/18	28.3	54	1002	P

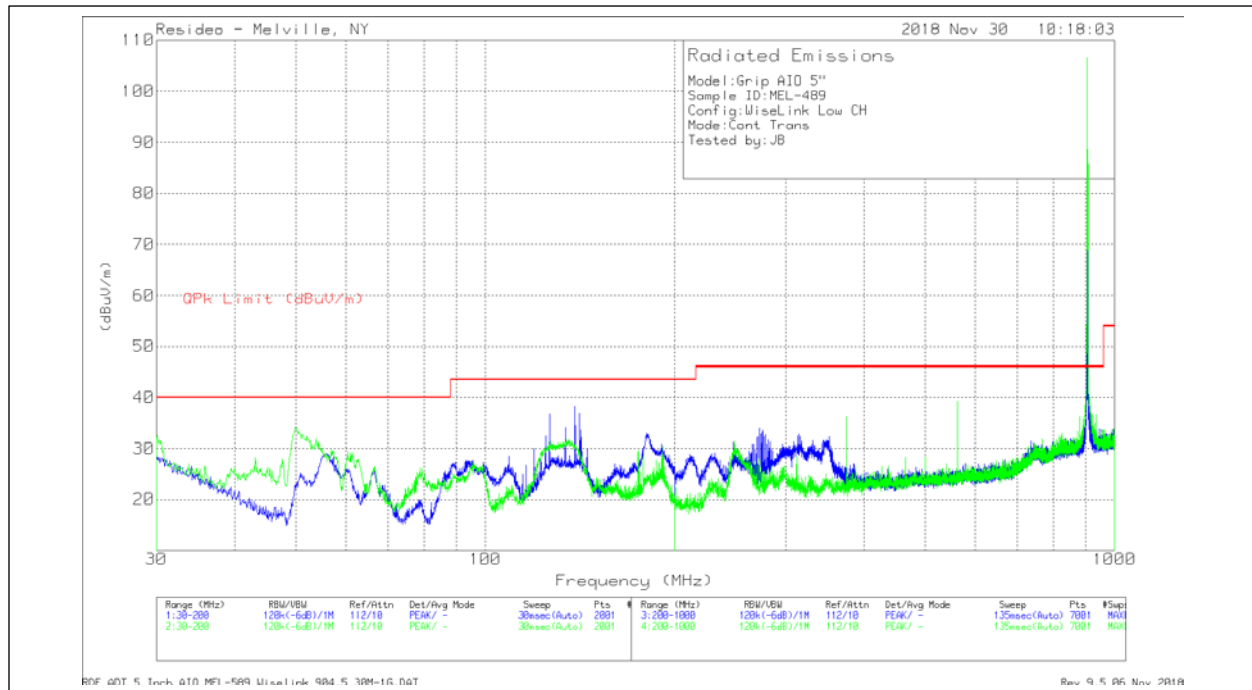
NOTE: Below 30MHz, pretesting showed that no emissions as a product of the EUT were detected within 20dB of the regulatory limit. Prescans performed in an anechoic chamber, final measurements performed on an OATS.

Since Wiselink/RF6/Bluetooth radios can transmit simultaneously, additional spurious scans are provided with all radios on and transmitting in their worse-case state.

Test Results

Spurious Emissions

Below 1GHz



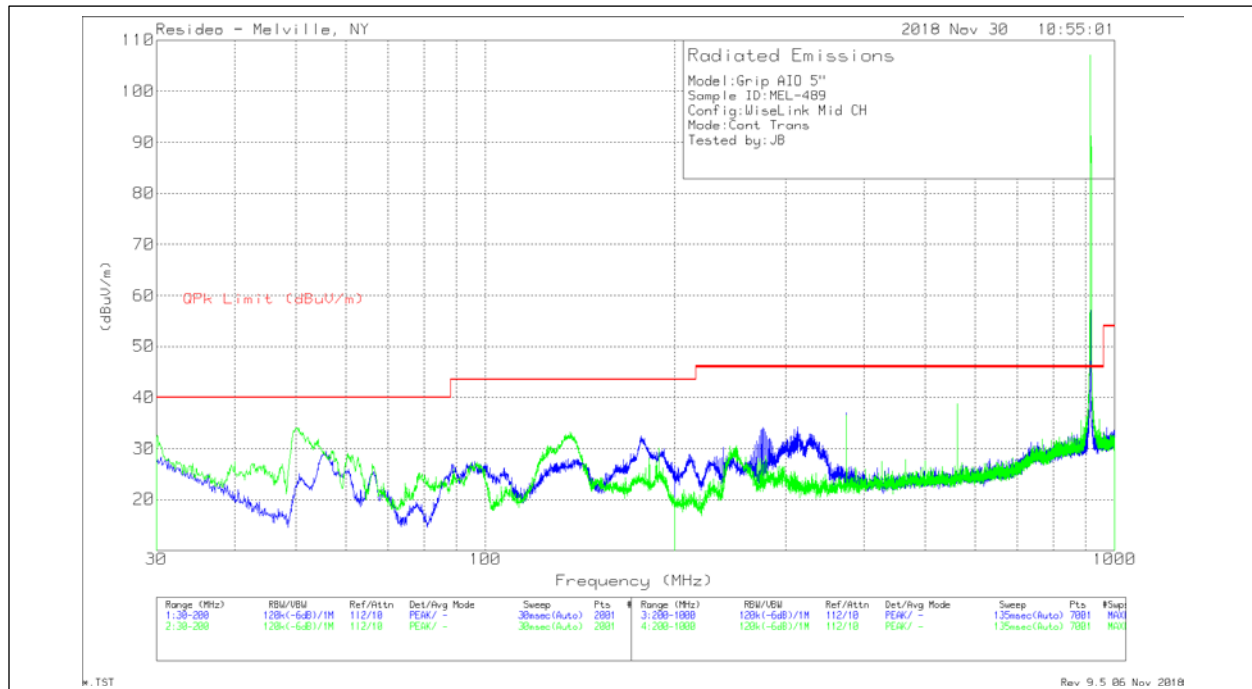
Low Channel - Plot

Frequency (MHz)	Meter Reading (dBuV)	Det	AF_JB6 [dB/m]	Cable 1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
* 126.475	6.37	Qp	17.6	1.8	25.77	43.52	-17.75	211	357	H
138.8035	5.54	Qp	17.2	1.9	24.64	43.52	-18.88	123	180	H
49.939	21.25	Qp	12.3	1.1	34.65	40	-5.35	298	265	V
562.4558	4.34	Qp	23	5.8	33.14	46.02	-12.88	163	325	H
375.001	5.55	Qp	19.1	3.8	28.45	46.02	-17.57	268	140	V
562.6081	4.25	Qp	23	5.8	33.05	46.02	-12.97	85	222	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Qp - Quasi-Peak detector

Low Channel - Data



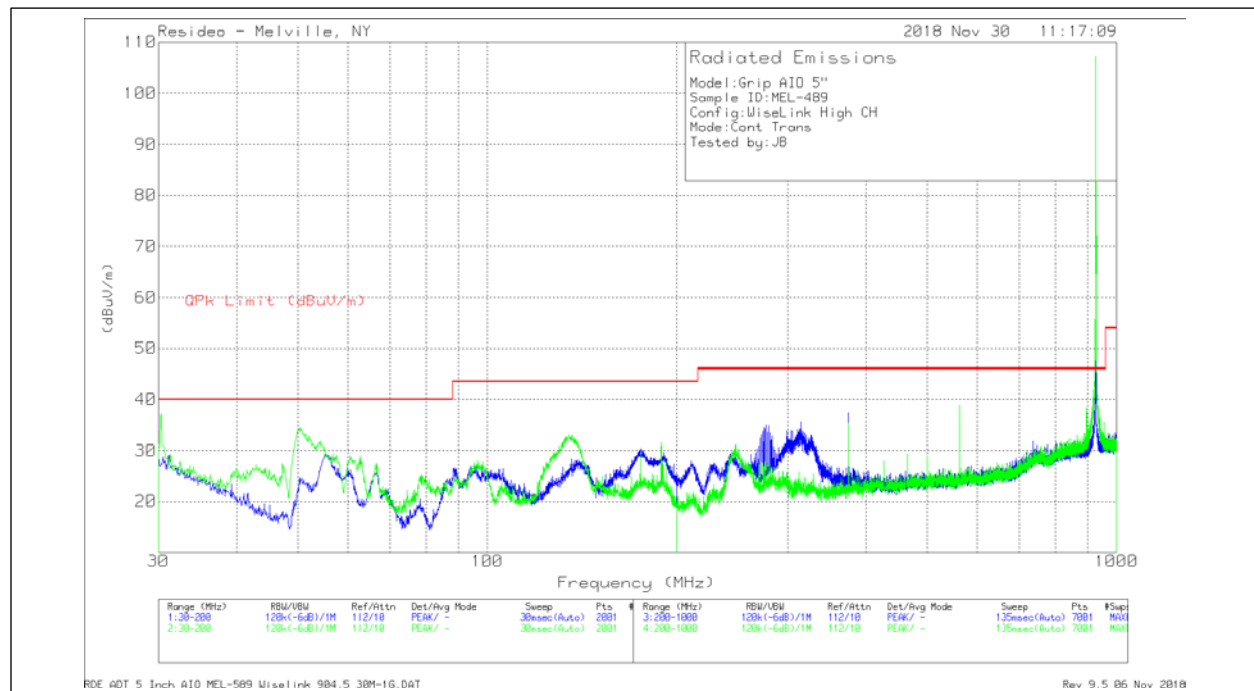
Mid Channel - Plot

Frequency (MHz)	Meter Reading (dBuV)	Det	AF_JB6 [dB/m]	Cable 1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
177.5762	16.03	Qp	15.5	2.1	33.63	43.52	-9.89	79	382	H
50.166	21.78	Qp	12.3	1.1	35.18	40	-4.82	26	391	V
375.0074	4.44	Qp	19.1	3.8	27.34	46.02	-18.68	64	278	H
562.5796	4.23	Qp	23	5.8	33.03	46.02	-12.99	241	211	H
375.0024	6.27	Qp	19.1	3.8	29.17	46.02	-16.85	218	333	V
562.4737	4.38	Qp	23	5.8	33.18	46.02	-12.84	162	196	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Qp - Quasi-Peak detector

Mid Channel - Data



High Channel - Plot

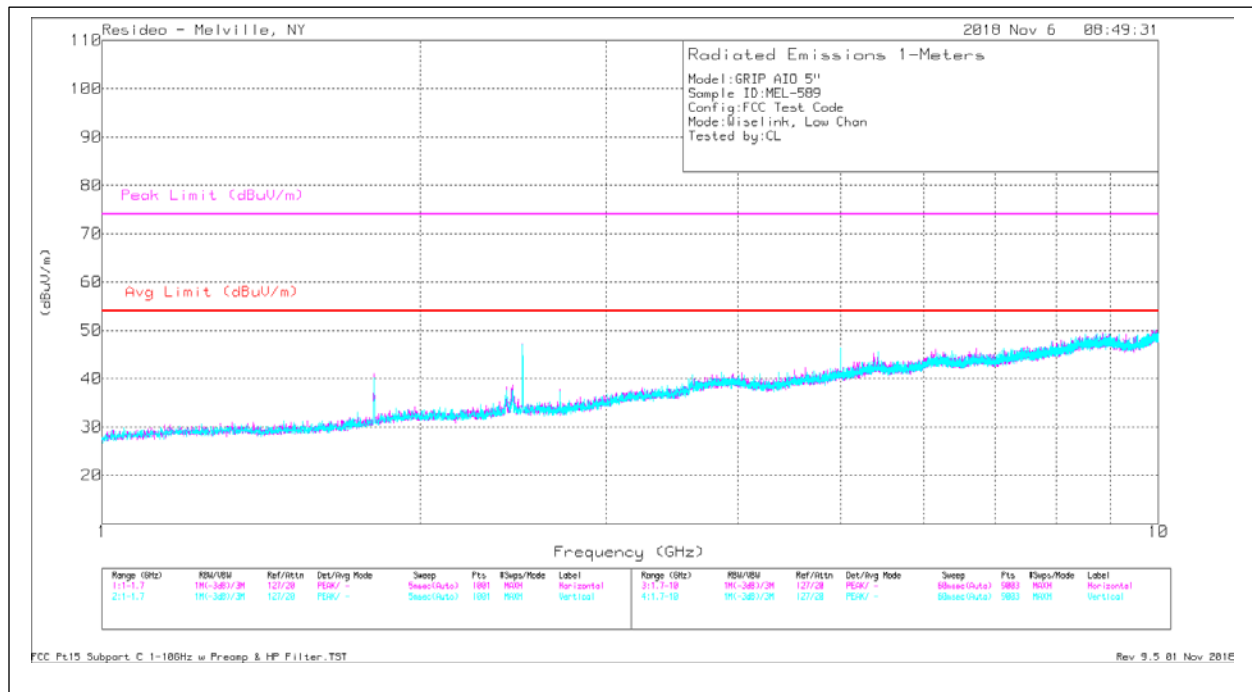
Frequency (MHz)	Meter Reading (dBuV)	Det	AF JB6 [dB/m]	Cable 1 [dB]	Corrected Reading (dBuV/m)	QPk Limit (dBuV/m)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
30.3372	11.07	Qp	24.6	.9	36.57	40	-3.43	53	166	H
30.4215	11.07	Qp	24.5	.9	36.47	40	-3.53	246	356	V
50.3644	20.91	Qp	12.3	1.1	34.31	40	-5.69	197	375	V
* 278.6338	4.62	Qp	17.6	3.1	25.32	46.02	-20.7	312	246	H
374.9339	4.49	Qp	19.1	3.8	27.39	46.02	-18.63	72	139	H
562.6121	4.33	Qp	23	5.8	33.13	46.02	-12.89	57	387	H
562.5577	4.37	Qp	23	5.8	33.17	46.02	-12.85	258	335	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

Qp - Quasi-Peak detector

High Channel - Data

Above 1GHz



Low Channel – Plot

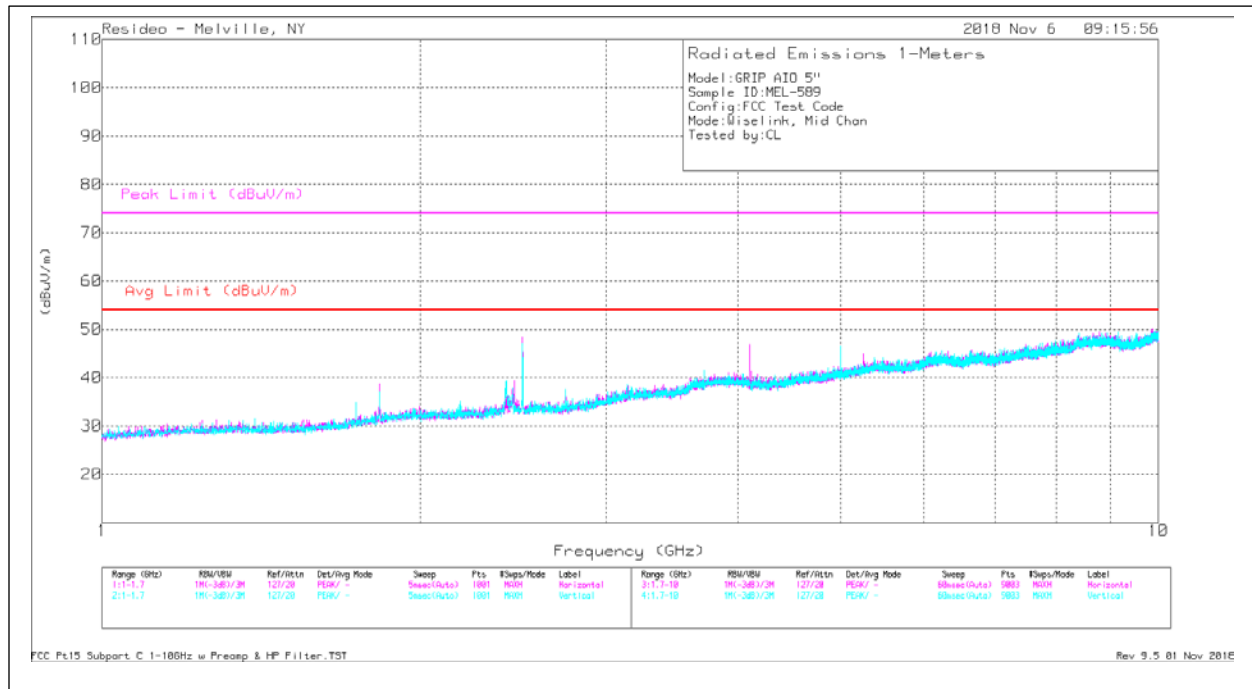
Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX1 [dB]	SMA7 [dB]	SMA5 [dB]	HPF [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.809	49.8	PKFH	26.8	-42.4	2.3	2.2	.5	39.2	-	-	74	-34.8	160	168	H
1.809	45.7	VA1T	26.8	-42.4	2.3	2.2	.5	35.1	54	-18.9	-	-	160	168	H
* 2.5	57.41	PKFH	28.7	-43.3	2.7	2.6	.3	48.41	-	-	74	-25.59	141	131	H
* 2.5	55.95	VA1T	28.7	-43.3	2.7	2.6	.3	46.95	54	-7.05	-	-	141	131	H
* 5	47.55	PKFH	33.3	-41.1	3.8	3.7	.2	47.45	-	-	74	-26.55	86	304	H
* 5	42.63	VA1T	33.3	-41.1	3.8	3.7	.2	42.53	54	-11.47	-	-	86	304	H
1.809	52.12	PKFH	26.8	-42.4	2.3	2.2	.5	41.52	-	-	74	-32.48	267	382	V
1.809	48.26	VA1T	26.8	-42.4	2.3	2.2	.5	37.66	54	-16.34	-	-	267	382	V
2.5	58.43	PKFH	28.7	-43.3	2.7	2.6	.3	49.43	-	-	74	-24.57	128	115	V
2.5	56.9	VA1T	28.7	-43.3	2.7	2.6	.3	47.9	54	-6.1	-	-	128	115	V
* 5	48.74	PKFH	33.3	-41.1	3.8	3.7	.2	48.64	-	-	74	-25.36	15	193	V
* 5	44.58	VA1T	33.3	-41.1	3.8	3.7	.2	44.48	54	-9.52	-	-	15	193	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=10Hz

Low Channel - Data



Mid Channel – Plot

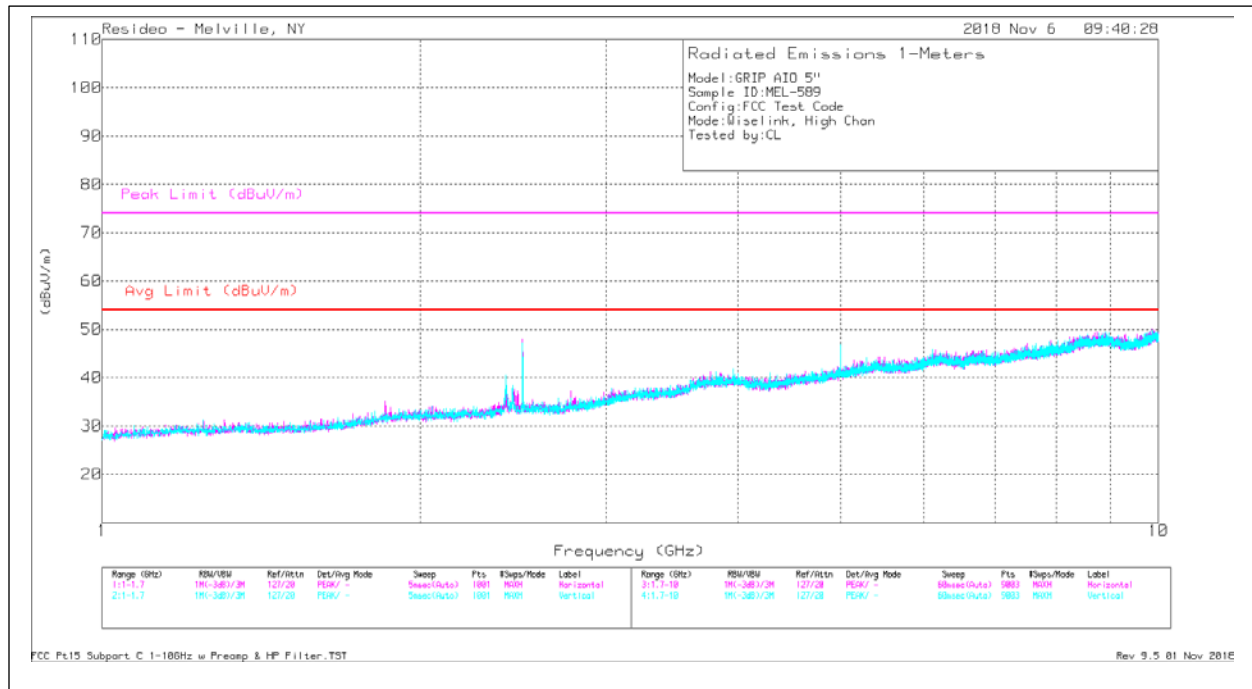
Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX1 [dB]	SMA7 [dB]	SMA5 [dB]	HPF [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1.831	49.96	PKFH	27.1	-42.4	2.3	2.2	.5	39.66	-	-	74	-34.34	221	395	H
1.831	44.93	VA1T	27.1	-42.4	2.3	2.2	.5	34.63	54	-19.37	-	-	221	395	H
2.5	57.54	PKFH	28.7	-43.3	2.7	2.6	.3	48.54	-	-	74	-25.46	171	386	H
2.5	55.92	VA1T	28.7	-43.3	2.7	2.6	.3	46.92	54	-7.08	-	-	171	386	H
* 4.1	41.82	PKFH	32.5	-40.6	3.5	3.3	.2	40.72	-	-	74	-33.28	267	385	H
* 4.1	28.06	VA1T	32.5	-40.6	3.5	3.3	.2	26.96	54	-27.04	-	-	267	385	H
1.831	47.96	PKFH	27.1	-42.4	2.3	2.2	.5	37.66	-	-	74	-36.34	42	115	V
1.831	41.39	VA1T	27.1	-42.4	2.3	2.2	.5	31.09	54	-22.91	-	-	42	115	V
2.5	58.41	PKFH	28.7	-43.3	2.7	2.6	.3	49.41	-	-	74	-24.59	126	151	V
2.5	56.7	VA1T	28.7	-43.3	2.7	2.6	.3	47.7	54	-6.3	-	-	126	151	V
* 5	51.2	PKFH	33.3	-41.1	3.8	3.7	.2	51.1	-	-	74	-22.9	358	190	V
* 5	48.11	VA1T	33.3	-41.1	3.8	3.7	.2	48.01	54	-5.99	-	-	358	190	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=10Hz

Mid Channel - Data



High Channel - Plot

Frequency (GHz)	Meter Reading (dBuV)	Det	AF [dB/m]	SWBOX1 [dB]	SMA7 [dB]	SMA5 [dB]	HPF [dB]	Corrected Reading (dBuV/m)	Avg Limit (dBuV/m)	Margin (dB)	Peak Limit (dBuV/m)	PK Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
2.5	57.88	PKFH	28.7	-43.3	2.7	2.6	.3	48.88	-	-	74	-25.12	184	202	H
2.5	56.06	VA1T	28.7	-43.3	2.7	2.6	.3	47.06	54	-6.94	-	-	184	202	H
* 5	49.57	PKFH	33.3	-41.1	3.8	3.7	.2	49.47	-	-	74	-24.53	61	296	H
* 5	45.67	VA1T	33.3	-41.1	3.8	3.7	.2	45.57	54	-8.43	-	-	61	296	H
8.752	37.59	PKFH	37.7	-39.2	5.2	5	.2	46.49	-	-	74	-27.51	261	291	H
8.75	24.64	VA1T	37.7	-39.2	5.2	5	.2	33.54	54	-20.46	-	-	261	291	H
2.5	56.38	PKFH	28.7	-43.3	2.7	2.6	.3	47.38	-	-	74	-26.62	57	284	V
2.5	54.47	VA1T	28.7	-43.3	2.7	2.6	.3	45.47	54	-8.53	-	-	57	284	V
* 5	51.36	PKFH	33.3	-41.1	3.8	3.7	.2	51.26	-	-	74	-22.74	347	168	V
* 5	48.53	VA1T	33.3	-41.1	3.8	3.7	.2	48.43	54	-5.57	-	-	347	168	V
8.908	38.47	PKFH	37.8	-39.4	5.2	5.1	.2	47.37	-	-	74	-26.63	109	362	V
8.909	24.24	VA1T	37.8	-39.4	5.2	5.1	.2	33.14	54	-20.86	-	-	109	362	V

* - indicates frequency in CFR47 Pt 15 / IC RSS-Restricted Band

PKFH - FHSS: RB=100k/1MHz VB=3 x RB, Peak

VA1T - FHSS: Linear Voltage Average VB=10Hz

High Channel - Data

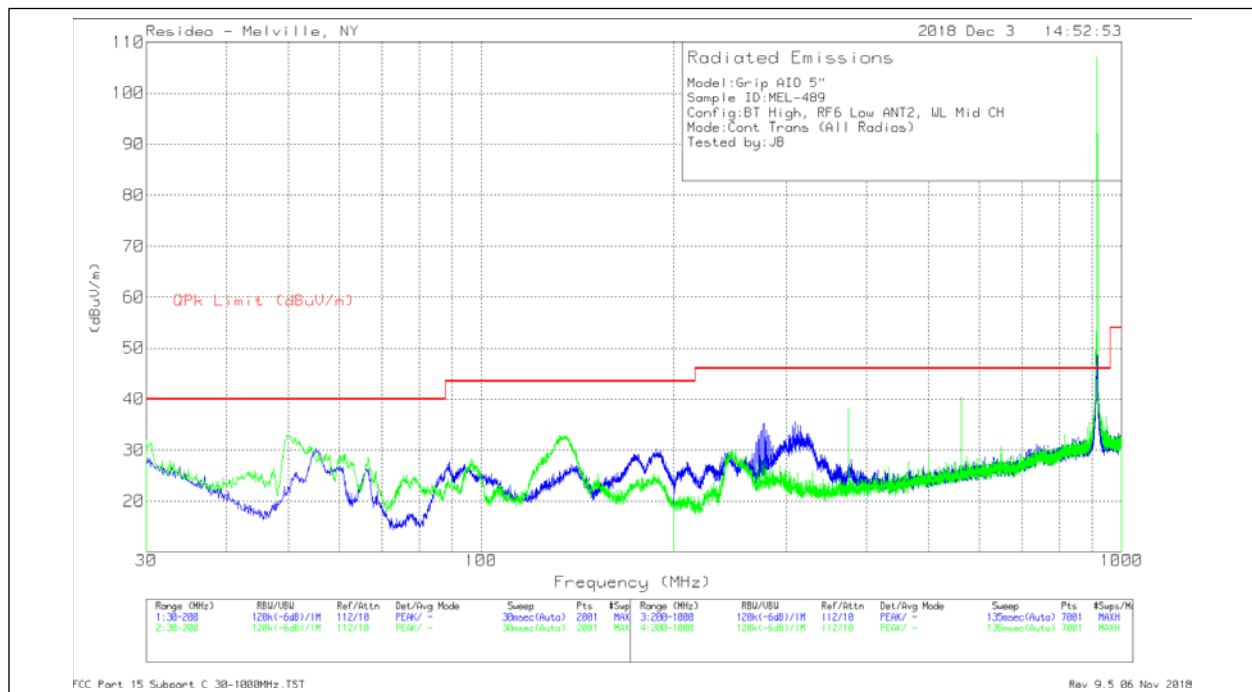
Simultaneous Transmission

Configuration (Worse-case):

RF6 – Antenna 2, Low Channel

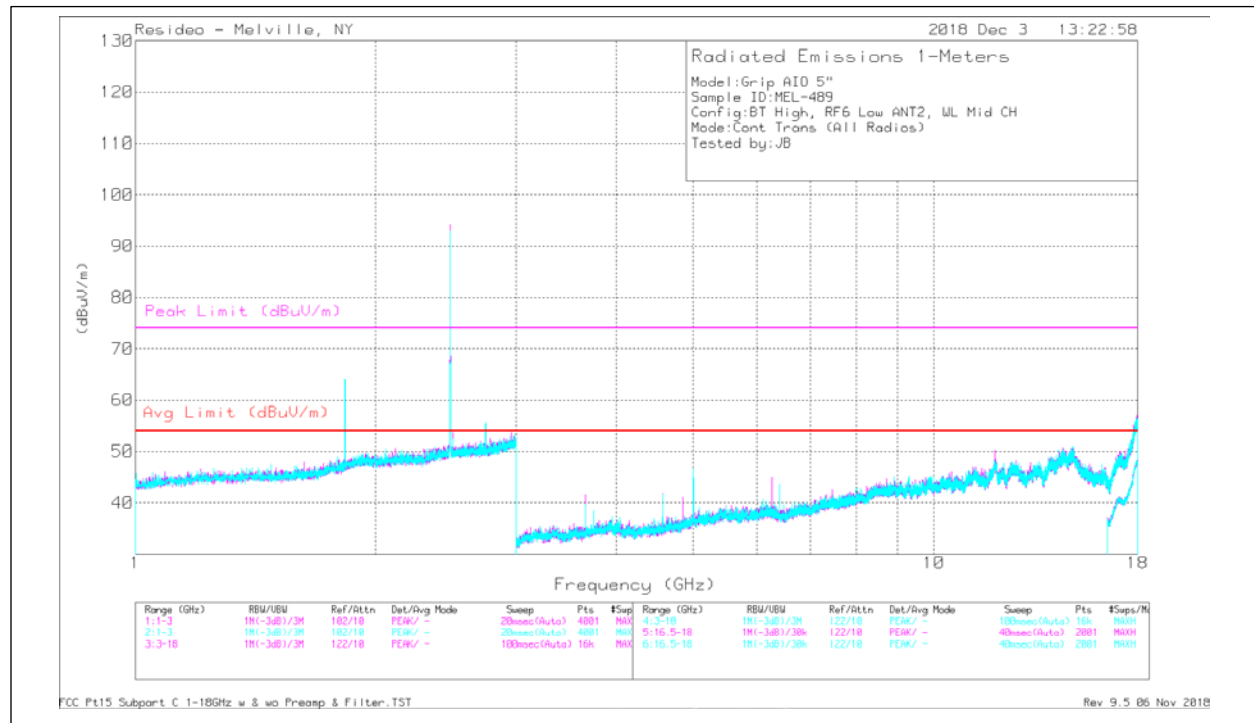
Wiselink – Mid Channel

Bluetooth (LE) – High Channel



30-1000MHz – Plot

Note: No additional emissions detected because of simultaneous transmission



1-18GHz – Plot

Note: No additional emissions detected because of simultaneous transmission

Conducted Emissions (Mains)

Test Description

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80 cm above the horizontal ground plane. The EUT is configured in accordance with ANSI C63.10 / C63.4.

The receiver is set to a resolution bandwidth of 9 kHz. Peak detection is used unless otherwise noted as quasi-peak or average.

Line conducted data is recorder for both NEUTRAL and HOT lines.

Test Criteria

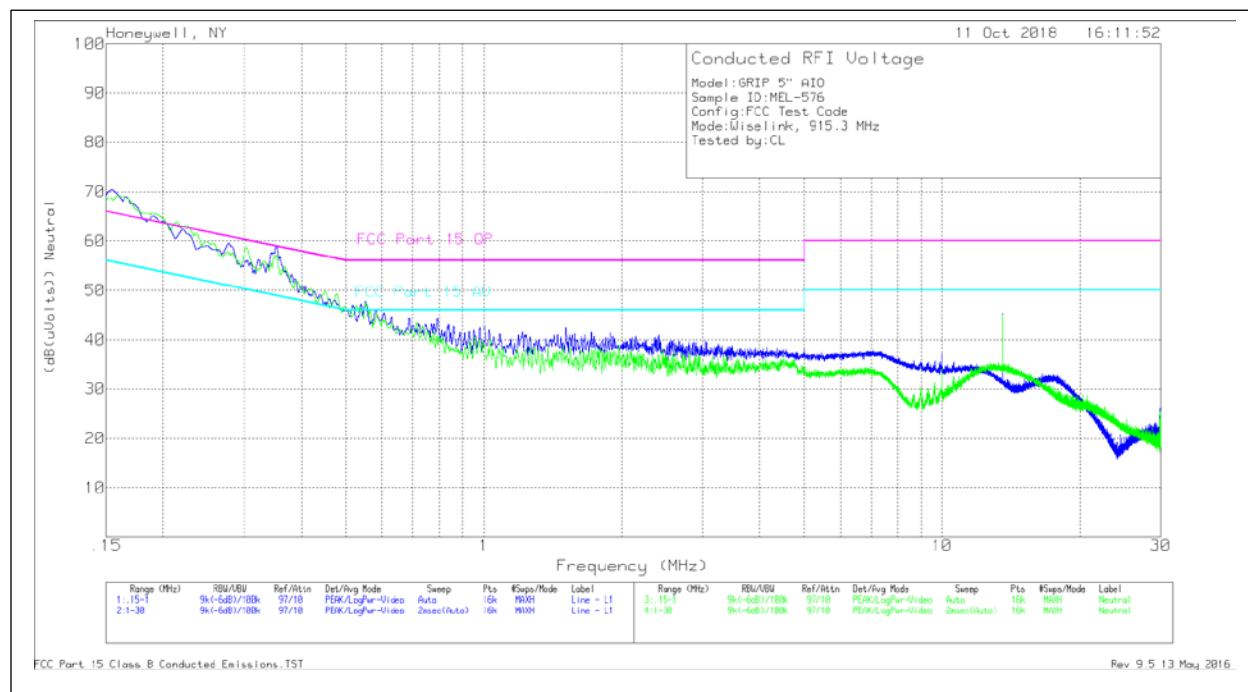
Reference	Limit (dBuV)		
	Frequency Range (MHz)	Quasi-Peak	Average
CFR 47 Subpart C, 15.207 RSS-GEN CFR 47 Subpart B, 15.107 ICES-003	0.15-0.5	66 to 56	56 to 46
	0.5-5	56	46
	5-30	60	50

Test Information

Tester	Test Location	Date	Temperature (°C)	Humidity (%RH)	Pressure (mbar)	Results (P/F)
CL	RF Lab	10/11/18	22.6	70.6	1004	P

Test Results

Intentional Mode (Worse-case)



Mid Channel Plot

Frequency (MHz)	Meter Reading (dBuV)	Det	LISN1 L1 [dB]	CDE Cable	Corrected Reading (dB(uVolts))	FCC Part 15 QP	Margin (dB)	FCC Part 15 AV	Margin (dB)
.1558	30.81	Ca	10.6	0	41.41	65.68	-24.27	55.68	-14.27
.22061	19.28	Ca	10.3	0	29.58	62.8	-33.22	52.8	-23.22
.3531	38.37	Ca	10	0	48.37	58.89	-10.52	48.89	-.52
.55373	19.45	Ca	9.9	0	29.35	56	-26.65	46	-16.65
.15599	30.64	Qp	10.6	0	41.24	65.67	-24.43	55.67	-14.43

Frequency (MHz)	Meter Reading (dBuV)	Det	LISN1 L2 [dB]	CDE Cable	Corrected Reading (dB(uVolts))	FCC Part 15 QP	Margin (dB)	FCC Part 15 AV	Margin (dB)
.16407	30.46	Ca	10.6	0	41.06	65.26	-24.2	55.26	-14.2
.22589	20.56	Ca	10.3	0	30.86	62.6	-31.74	52.6	-21.74
.35323	34.98	Ca	10.1	0	45.08	58.89	-13.81	48.89	-3.81
.55577	16.66	Ca	10	0	26.66	56	-29.34	46	-19.34
.16382	30.51	Qp	10.6	0	41.11	65.27	-24.16	55.27	-14.16
.22636	20.74	Qp	10.3	0	31.04	62.58	-31.54	52.58	-21.54

Ca - CISPR average detection

Qp - Quasi-Peak detector

Mid Channel Data

END OF REPORT