

**FCC PART 15, SUBPART B and C
TEST REPORT***for***RFID READER****MODEL: AVID1050**

Prepared for

**AVID IDENTIFICATION SYSTEMS, INC.
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DATE: MAY 5, 2023

	REPORT BODY	APPENDICES					TOTAL
		A	B	C	D	E	
PAGES	20	2	2	2	24	106	156

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GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product certification, approval or endorsement by NVLAP, NIST or any agency of the federal government.

Device Tested: RFID Reader
Model: AVID1050
S/N: E42E18184FFC

Product Description: The EUT is an RFID Reader that reads various tags and has a pre certified BLE Module.

Modifications: The EUT was not modified during the testing.

Customer: AVID Identification Systems, Inc.
3185 Hamner Avenue
Norco, California 92860

Test Dates: May 16, 17, 18, 20, and 22, 2023

Test Specifications covered by accreditation:

Emissions requirements
FCC Standard: CFR Title 47, Part 15, Subpart B and Subpart C
ISED Standard: RSS-210, Issue 10 and RSS-GEN, Issue 5



Test Procedure: ANSI C63.4:2014, ANSI C63.10: 2013

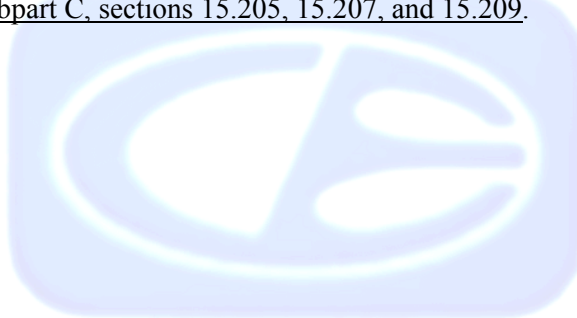
Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	Spurious Radiated RF Emissions, 9 kHz – 25000 MHz (Transmitter and Digital portion)	Complies with the Class B limits of CFR Title 47, Part 15 Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, section 15.205, and 15.209 Highest reading in relation to spec limit: 41.65 (QP) dBuV/m @ 240.50 MHz (*U = 3.19 dB)
2	Conducted RF Emissions, 150 kHz – 30 MHz	The EUT complies with the Class B limits of CFR Title 47, Part 15 Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, section 15.207 Highest reading in relation to spec limit: 46.52 (Avg) dBuV/m @ 0.154 MHz (*U = 2.72 dB)

1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the RFID Reader, Model: AVID1050. The emissions measurements were performed according to the measurement procedure described in ANSI C63.4 and ANSI C63.10. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.207, and 15.209.



2. ADMINISTRATIVE DATA

2.1 Location of Testing

The emissions tests described herein were performed at the test facility of Compatible Electronics, 114 Olinda Drive, Brea, California 92823 and 20621 Pascal Way Lake Forest, California 92630.

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

AVID Identification Systems, Inc.

Mark Blair Engineering Manager

Compatible Electronics Inc.

Kyle Fujimoto Sr. Test Engineer

James Ross Sr. Test Engineer

2.4 Date Test Sample was Received

The test sample was received prior to the initial test date.

2.5 Disposition of the Test Sample

The test sample has not been returned to AVID Identification Systems, Inc. as of the date of this test report.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

RF	Radio Frequency
EMI	Electromagnetic Interference
EUT	Equipment Under Test
P/N	Part Number
S/N	Serial Number
HP	Hewlett Packard
ITE	Information Technology Equipment
CML	Corrected Meter Limit
LISN	Line Impedance Stabilization Network
N/A	Not Applicable
BLE	Bluetooth Low Energy
USB	Universal Serial Bus

3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this emissions Test Report.

SPEC	TITLE
FCC Title 47, Part 15 Subpart C	FCC Rules - Radio frequency devices (including digital devices) – Intentional Radiators
FCC Title 47, Part 15 Subpart B	FCC Rules - Radio frequency devices (including digital devices) – Unintentional Radiators
ANSI C63.4 2014	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz
ANSI C63.10 2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
EN 50147-2 1997	Anechoic chambers, Alternative test site suitability with respect to site attenuation

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration

Battery Mode: The RFID Reader, Model: AVID1050 (EUT) was tested as a standalone unit.

USB Mode: The RFID Reader, Model: AVID1050 (EUT) was connected to a laptop via its USB port. The laptop was also connected to a mouse and AC Adapter via its USB and power ports, respectively.

The EUT was operating at 134.2 kHz and also transmitting BLE at the same time. The microSD card was also being exercised on a continuous basis.

The EUT contained a fully certified BLE Module.

The firmware inside the EUT allowed the EUT to continuously transmit or receive BLE and to transmit 134.2 kHz on a continuous basis in either modulated or continuous wave mode.

The firmware is stored on the company's servers.

The final radiated and conducted emissions data for the EUT was taken in the configurations described above. Please see Appendix E for the data sheets.

4.1.1 Cable Construction and Termination

Cable 1 (USB Mode)

This is a 1.5-meter shielded cable connecting the EUT to the laptop. The cable has a USB type 'A' connector at the laptop end and a USB type 'C' connector at the EUT end. The cable has a molded ferrite at the EUT end. The shield of the cable was grounded to the chassis via the connector.

Cable 2 (USB Mode)

This is a 2-meter shielded cable connecting the laptop to the mouse. The cable has a USB type 'A' connector at the laptop end and is hard wired into the mouse. The shield of the cable was grounded to the chassis via the connector.

Cable 3 (USB Mode)

This is a 2-meter cable connecting the AC adapter to the laptop. The cable has a one pin connector at the laptop end and is hard wired into the AC Adapter. The cable was bundled to a length of 1-meter.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT**5.1 EUT and Accessory List**

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
RFID READER (EUT)	AVID IDENTIFICATION SYSTEMS, INC.	AVID1050	E24E18184FFC	IOL-134-AV1050
FIRMWARE	AVID IDENTIFICATION SYSTEMS, INC.	999097799999901	N/A	N/A
LAPTOP	DELL	P89G	DQNH703	N/A
MOUSE	HEWLETT PACKARD	N910U	K9P02625630	N/A
AC ADAPTER	DELL	LA45NM140	CN-0KXTTW-LOC00	N/A
BLE MODULE	AVID IDENTIFICATION SYSTEMS, INC.	BT840F	N/A	IOL-BT840F

5.2 Emissions Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CAL. DATE	CAL. DUE DATE
RF RADIATED AND AC CONDUCTED EMISSIONS TEST EQUIPMENT					
TDK TestLab	TDK RF Solutions, Inc.	9.22	700145	N/A	N/A
EMI Receiver, 20 Hz – 26.5 GHz	Keysight Technologies, Inc.	N9038A	MY51210150	September 17, 2021	September 17, 2023
System Controller	Sunol Sciences Corporation	SC110V	112213-1	N/A	N/A
Turntable	Sunol Sciences Corporation	2011VS	N/A	N/A	N/A
Antenna-Mast	Sunol Sciences Corporation	TWR95-4	112213-3	N/A	N/A
Loop Antenna	Com-Power	AL-130R	121090	February 10, 2022	February 10, 2025
CombiLog Antenna	Com-Power	AC-220	61093	December 14, 2021	December 14, 2023
Horn Antenna	Com-Power	AH-118	10050113	December 16, 2021	December 16, 2023
Preamplifier	Com-Power	PA-118	181653	March 7, 2022	March 7, 2024
Preamplifier	Com-Power	PA-840	711013	April 8, 2022	April 8, 2024
Horn Antenna	Com-Power	AH-826	0071957	NCR	NCR
Below 1 GHz Conducted Cable	N/A	N/A	Asset #: 0009	October 3, 2022	October 3, 2023
Below 1 GHz Radiated Cable	N/A	N/A	Asset #: 0006	October 3, 2022	October 3, 2023
Above 1 GHz Cable	Suhner	Sucoflex 102EA	2291	August 2, 2021	August 2, 2023
Above 1 GHz Cable	Suhner	Sucoflex 102EA	501393	August 2, 2021	August 2, 2023
Above 1 GHz Cable	Suhner	Sucoflex 102EA	501394	August 2, 2021	August 2, 2023
Computer	Hewlett Packard	p6716f	MXX1030PX0	N/A	N/A
LCD Monitor	Hewlett Packard	52031a	3CQ046N3MG	N/A	N/A
Variable Autotransformer	Staco Energy Products	3PN2210	003	N/A	N/A
True RMS Multimeter	Fluke	115	36601149WS	November 21, 2021	November 21, 2023

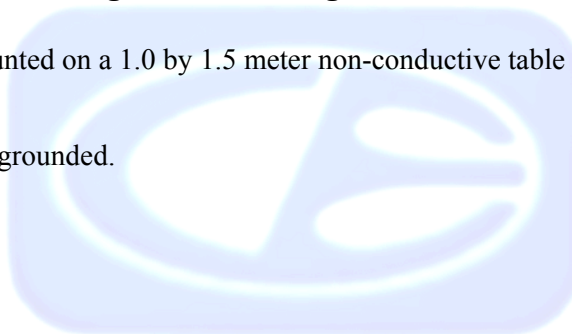
6. TEST SITE DESCRIPTION**6.1 Test Facility Description**

Please refer to section 2.1 of this report for emissions test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.



7. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

7.1 RF Emissions

7.1.1 Conducted Emissions Test

The EMI Receiver was used as a measuring meter. A 10 dB attenuator was used for the protection of the EMI Receiver input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the EMI Receiver. The output of a second LISN was terminated by a 50-ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding, and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by computer software. The final qualification data is located in Appendix E.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15 Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, section 15.207.

7.1.2 Radiated Emissions (Spurious and Harmonics) Test – Lab A

The EMI Receiver was used as a measuring meter. The measurement meter was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the measurement meter records the highest measured reading over all the sweeps. The following antenna and measurement bandwidths were used as specified in the following table.

The resolution bandwidths and transducers used for this test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
9 kHz to 150 kHz	200 Hz	Loop Antenna
150 kHz to 30 MHz	9 kHz	Loop Antenna

An open field, non-ground plane test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4. Please see section 6.2 of this report for mounting, bonding, and grounding of the EUT. The portable turntable supporting the EUT is remote controlled using a motor. The portable turntable permits EUT rotation of 360 degrees in order to maximize emissions. Data was collected in the worst case (highest emission) configuration of the EUT. At the transmit frequency band, the antenna height was 1 meter; the EUT was rotated 360 degrees; and the antenna was positioned in three orthogonal positions and the position with the highest emission level was recorded (for H field radiated field strength).

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. The EUT was tested at a 10-meter test distance to obtain final test data. The final qualification data is located in Appendix E.

The corrected spec limit at 10 meters is based on the following formula: $[(40) \text{ Log (spec test distance / actual test distance)}] + \text{spec limit}$. This is based on by using the square of an inverse linear distance extrapolation factor of 40 dB/decade per FCC 15.31 (f)(2).

The final qualification data sheets are located in Appendix E.

The e-field factor is derived from the magnetic field factor plus 51.5, which is the characteristic impedance of the medium. Please see Appendix D for a table of magnetic and electric field factors.

Test Results:

The EUT complies with the limits of CFR Title 47, Part 15, Subpart C, Sections 15.209 for radiated emissions. The worst case is when both the 134.2 kHz and BLE are transmitting simultaneously. The data sheets in Appendix E of this test report reflect the worst case mentioned in the previous sentence.

7.1.3 Radiated Emissions (Spurious and Harmonics) Test – Lab D

The EMI Receiver was used as the measuring meter. A built-in, internal preamplifier was used to increase the sensitivity of the instrument. The EMI Receiver was initially used with the Analyzer mode feature activated. In this mode, the EMI receiver can then record the actual frequency to be measured. This final reading is then taken accurately in the EMI Receiver mode, which takes into account the cable loss, amplifier gain and antenna factors, so that a true reading is compared to the true limit. The effective measurement bandwidth used for the radiated emissions test was according to the frequency measured (200 Hz for 9 kHz to 150 kHz, 9 kHz for 150 kHz to 30 MHz, 120 kHz for 30 MHz to 1 GHz and 1 MHz for 1 GHz to 25 GHz).

The frequencies 1 GHz and below were Quasi-Peaked using the Quasi-Peak detector function on the EMI Receiver.

The frequencies above 1 GHz were averaged using the RMS detector function on the EMI Receiver.

The EMI test chamber of Compatible Electronics, Inc. was used for radiated emissions testing. This test site is in full compliance with ANSI C63.4. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

The EUT was tested at a 3-meter test distance. The six highest emissions are listed in Table 1.0.

The measurement bandwidths and transducers used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
9 kHz to 150 kHz	200 Hz	Loop Antenna
150 kHz to 30 MHz	9 kHz	Loop Antenna
30 MHz to 1 GHz	120 kHz	CombiLog Antenna
1 GHz to 25 GHz	1 MHz	Horn Antenna

Test Results:

The EUT complies with the **Class B** limits of **CFR** Title 47, Part 15, Subpart B; Subpart C sections 15.205 and 15.209 for radiated emissions. Frequencies in the non-restricted bands do not need to meet FCC 15.209 limits, per FCC 15.247. See the certification for FCC ID: IOL-BT840F for further information.

7.1.4 RF Emissions Test ResultsTable 1.0 CONDUCTED EMISSION RESULTS
RFID Reader, Model: AVID1050

Frequency (MHz)	Average Emission Level* (dBuV)	Average Specification Limit (dBuV)	Delta (Emission – Spec. Limit) (dB)
0.154 (BL) (CW)	46.52	55.25	-15.03
0.454 (WL) (Modulated)	31.02	46.63	-15.61
0.462 (WL) (Modulated)	30.89	46.69	-15.80
0.458 (WL) (Modulated)	30.41	46.68	-16.27
0.174 (BL) (Modulated)	37.50	54.43	-16.94
0.194 (BL) (CW)	36.53	53.81	-17.28

Notes:

- * The complete emissions data is given in Appendix E of this report.
- (BL) Black Lead
- (WL) White Lead
- (CW) Continuous Wave

RF Emissions Test Results (Continued)Table 2.0 RADIATED EMISSION RESULTS
RFID Reader, Model: AVID1050

Frequency MHz	Corrected Reading* dBuV/m	Specification Limit dBuV/m	Delta (Cor. Reading – Spec. Limit) dB
0.1342 (Antenna X) (Y-Axis) (Battery Mode) (CW)	24.21	25.05	-0.84
0.1342 (Antenna X) (X-Axis) (Battery Mode) (CW)	23.43	25.05	-1.62
0.1342 (Antenna X) (X-Axis) (USB Mode) (CW)	22.54	25.05	-2.51
0.1342 (Antenna X) (Z-Axis) (Battery Mode) (CW)	22.34	25.05	-2.71
0.1342 (Antenna X) (Z-Axis) (USB Mode) (CW)	21.69	25.05	-3.36
0.1342 (Antenna Z) (Z-Axis) (USB Mode) (CW)	21.62	25.05	-3.43

Notes:

- * The complete emissions data is given in Appendix E of this report.
- (BL) Black Lead
- (WL) White Lead
- (V) Vertical
- (H) Horizontal
- (USB) Universal Serial Bus
- (CW) Continuous Wave

7.1.5 Sample Calculations

A correction factor for the antenna, cable, and a distance factor (if any) must be applied to the meter reading before a true field strength reading can be obtained. This Corrected Meter Reading is then compared to the specification limit in order to determine compliance with the limits.

Conversion to logarithmic terms: Specification limit ($\mu\text{V}/\text{m}$) $\log \times 20$ = Specification Limit in $\text{dB}\mu\text{V}/\text{m}$

To correct for distance when measuring at a distance other than the specification

For measurements below 30 MHz: (Specification distance / test distance) $\log \times 40$ = distance factor

For measurements above 30 MHz: (Specification distance / test distance) $\log \times 20$ = distance factor

Note: When using an Active Antenna, the Antenna factor shall be subtracted due to the combination of the internal amplification and antenna loss.

Corrected Meter Reading = meter reading + F – A + C

where: F = antenna factor
A = amplifier gain
C = cable loss

The correction factors for the antenna and the amplifier gain are attached in Appendix D of this report. The data sheets are attached in Appendix E.

The distance factor D is 0 when the test is performed at the required specification distance.

When the limit is in terms of magnetic field, the following equation applies:

$$H[\text{dB}(\mu\text{A}/\text{m})] = V[\text{dB}(\mu\text{V})] + L_C [\text{dB}] - G_{PA} [\text{dB}] + AF^H [\text{dB}(\text{S}/\text{m})]$$

where: H is the magnetic field strength (to be compared with the limit),
 V is the voltage level measured by the receiver or spectrum analyzer,
 L_C is the cable loss,
 G_{PA} is the gain of the preamplifier (if used), and
 AF^H is the magnetic antenna factor.

The G_{PA} term is only included in the equation when an external preamplifier is used in the measurement chain, in front of the receiver or spectrum analyzer. An external preamplifier is not usually necessary (or even advisable, due to risk of saturating the input mixer of the receiver) when an active loop antenna is used. In that case, the antenna factor of the loop already includes the gain of its built-in preamplifier.

Sample Calculations (Continued)

If the “electrical” antenna factor is used instead, the above equation becomes:

$$H[\text{dB}(\mu\text{A/m})] = V[\text{dB}(\mu\text{V})] + L_C[\text{dB}] - G_{PA}[\text{dB}] + AF^E[\text{dB}(\text{m}^{-1})] - 51.5[\text{dB}\Omega]$$

where: AF^E is the “electric” antenna factor, as provided by the antenna calibration laboratory.

When the limit is in terms of electric field, the following equation applies:

$$E[\text{dB}(\mu\text{V/m})] = V[\text{dB}(\mu\text{V})] + L_C[\text{dB}] - G_{PA}[\text{dB}] + AF^E[\text{dB}(\text{m}^{-1})]$$

or, if the magnetic antenna factor is used:

$$E[\text{dB}(\mu\text{V/m})] = V[\text{dB}(\mu\text{V})] + L_C[\text{dB}] - G_{PA}[\text{dB}] + AF^H[\text{dB}(\text{S/m})] + 51.5[\text{dB}\Omega]$$

The display of the receiver (or spectrum analyzer) **shall not** be configured in units of current, e.g. μA or $\text{dB}(\mu\text{A})$. That conversion is calculated inside the receiver (or spectrum analyzer) using its input impedance, which is $50\ \Omega$, while the magnetic field calculation is based on the free-space impedance of $377\ \Omega$.

7.1.6 Variation of the Input Power

The variation of the input power test was performed using the EMI Receiver. The EUT input power was varied between 85 % and 115 % of the nominal rated supply voltage. The carrier frequency was monitored for any change in amplitude.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart A section 15.31 (e). The variation of the input voltage was varied from 85% to 115% on the laptop providing the power to the EUT in USB mode. It was determined that this did not change the amplitude nor the frequency of the fundamental emissions.

This test was not performed when the EUT was in battery mode.

8. CONCLUSIONS

The RFID Reader, Model: AVID1050, as tested, meets all of the specification limits defined in FCC Title 47, Part 15, Subpart B and Subpart C, sections 15.205, 15.207, and 15.209.



APPENDIX A

LABORATORY ACCREDITATIONS AND RECOGNITIONS

LABORATORY ACCREDITATIONS AND RECOGNITIONS



NVLAP LAB CODE 200528-0



For US, Canada, Australia/New Zealand, Japan, Taiwan, Korea, and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025. **For the most up-to-date version of our scopes and certificates please visit <http://celectronics.com/quality/scope/>**

Quote from ISO-ILAC-IAF Communiqué on 17025:

"A laboratory's fulfilment of the requirements of ISO/IEC 17025:2005 means the laboratory meets both the technical competence requirements and management system requirements that are necessary for it to consistently deliver technically valid test results and calibrations. The management system requirements in ISO/IEC 17025:2005 (Section 4) are written in language relevant to laboratory operations and meet the principles of ISO 9001:2008 Quality Management Systems — Requirements."



APPENDIX B

MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC Subpart B and FCC Subpart C specifications.

All the rework described below was implemented during the test in a method that could be reproduced in all the units by the manufacturer.

No modifications were made to the EUT during the testing.



APPENDIX C

ADDITIONAL MODELS

ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

RFID Reader
Model: AVID1050
S/N: N/A

ADDITIONAL MODELS COVERED UNDER THIS REPORT:

There were no additional models covered under this report.



APPENDIX D

DIAGRAMS AND CHARTS

FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED SITE
LAB A

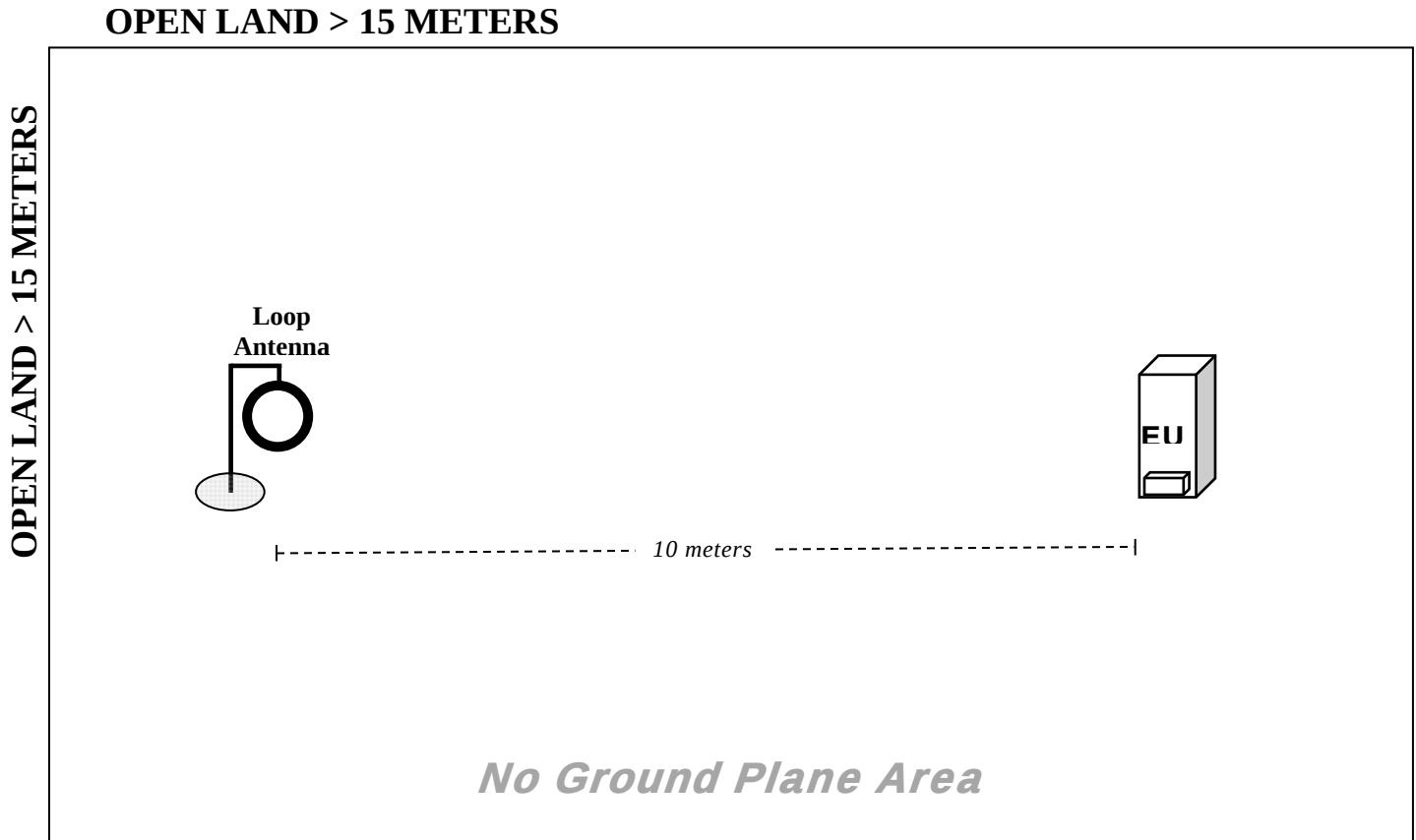


FIGURE 2: LAYOUT OF THE SEMI-ANECHOIC TEST CHAMBER

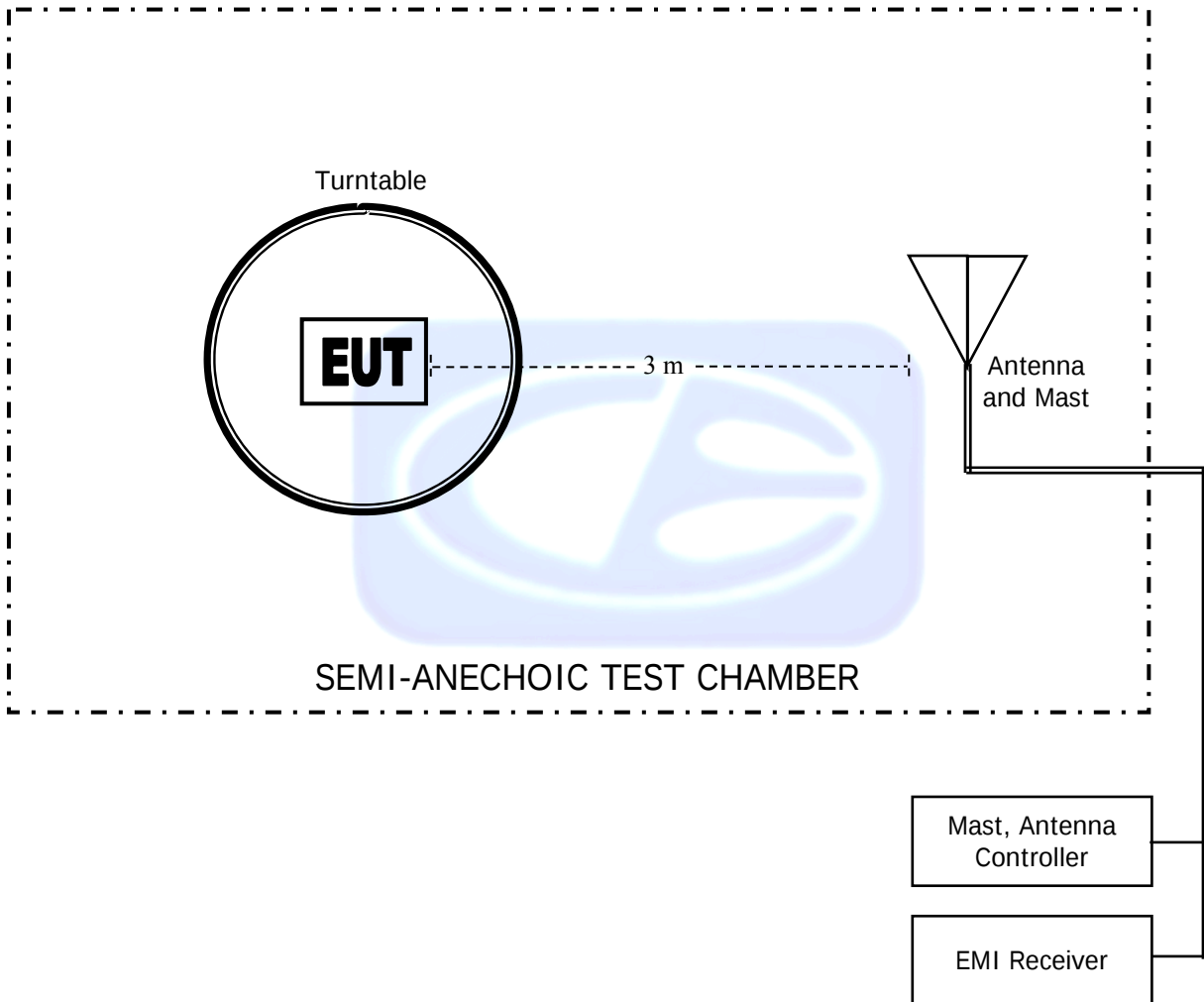
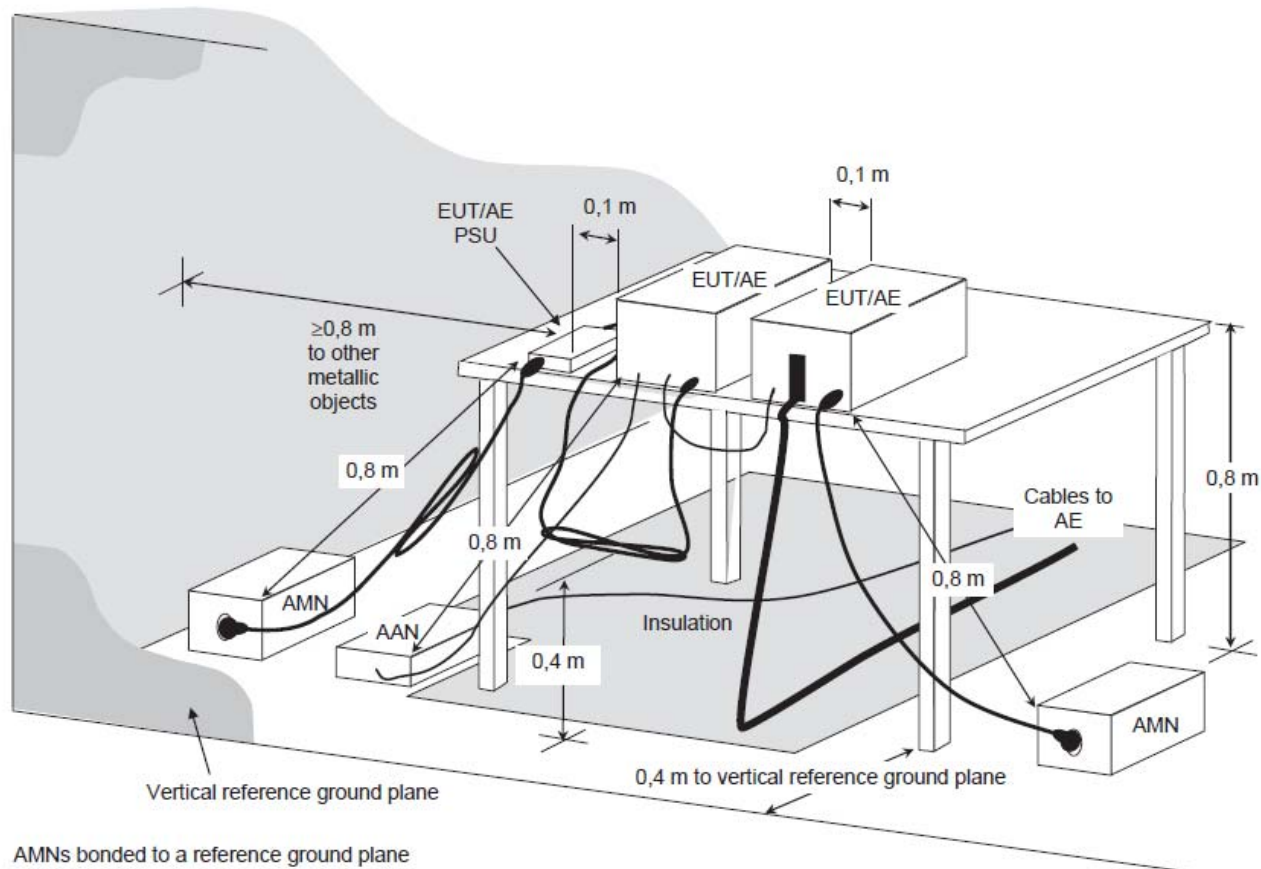


FIGURE 3: CONDUCTED EMISSIONS TEST SETUP



COM-POWER AL-130R**LOOP ANTENNA**

S/N: 121090

CALIBRATION DATE: FEBRUARY 10, 2022

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	15.6	-35.8
0.01	15.8	-35.6
0.02	14.8	-36.6
0.03	15.6	-35.9
0.04	15.0	-36.5
0.05	14.4	-37.1
0.06	14.6	-36.9
0.07	14.3	-37.2
0.08	14.3	-37.2
0.09	14.4	-37.0
0.10	14.1	-37.4
0.20	14.1	-37.4
0.30	14.0	-37.5
0.40	13.9	-37.6
0.50	14.1	-37.3
0.60	14.1	-37.3
0.70	14.2	-37.3
0.80	14.2	-37.3
0.90	14.2	-37.2
1.00	14.4	-37.0
2.00	14.6	-36.9
3.00	14.6	-36.8
4.00	14.9	-36.6
5.00	14.9	-36.7
6.00	14.8	-36.7
7.00	14.6	-36.8
8.00	14.5	-37.0
9.00	14.3	-37.2
10.00	14.5	-37.0
11.00	14.6	-36.9
12.00	14.7	-36.7
13.00	14.9	-36.6
14.00	15.0	-36.5
15.00	14.9	-36.6
16.00	14.9	-36.6
17.00	14.6	-36.8
18.00	14.4	-37.1
19.00	14.5	-37.0
20.00	14.5	-37.0
21.00	14.2	-37.3
22.00	13.9	-37.5
23.00	13.9	-37.5
24.00	13.8	-37.7
25.00	13.4	-38.0
26.00	13.2	-38.2
27.00	13.2	-38.3
28.00	12.7	-38.7
29.00	12.7	-38.8
30.00	12.4	-39.0

COM-POWER AC-220**COMBILOG ANTENNA****S/N: 61093****CALIBRATION DATE: DECEMBER 14, 2021**

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	22.50	200	16.00
35	21.40	250	17.40
40	21.00	300	19.70
45	20.60	350	20.00
50	19.70	400	22.20
60	16.10	450	22.40
70	12.80	500	23.10
80	12.50	550	23.40
90	14.20	600	24.90
100	15.40	650	25.30
120	16.50	700	25.40
125	16.80	750	26.40
140	15.90	800	26.70
150	16.60	850	27.10
160	18.50	900	27.90
175	15.90	950	28.00
180	15.50	1000	28.00

COM POWER AH-118**HORN ANTENNA****S/N: 10050113****CALIBRATION DATE: DECEMBER 16, 2021**

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	23.86	10.0	38.91
1.5	25.67	10.5	39.94
2.0	28.25	11.0	39.10
2.5	29.17	11.5	39.70
3.0	29.78	12.0	40.29
3.5	30.88	12.5	41.93
4.0	31.21	13.0	41.34
4.5	32.96	13.5	40.57
5.0	33.30	14.0	40.23
5.5	34.24	14.5	42.25
6.0	34.57	15.0	43.63
6.5	35.61	15.5	39.96
7.0	36.60	16.0	40.38
7.5	37.49	16.5	40.56
8.0	37.44	17.0	40.93
8.5	37.98	17.5	42.27
9.0	38.01	18.0	43.77
9.5	38.53		

COM-POWER AH-826**HORN ANTENNA**

S/N: 71957

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
18.0	33.5	22.5	35.5
18.5	33.5	23.0	35.9
19.0	34.0	23.5	35.7
19.5	34.0	24.0	35.6
20.0	34.3	24.5	36.0
20.5	34.9	25.0	36.2
21.0	34.7	25.5	36.1
21.5	35.0	26.0	36.2
22.0	35.0	26.5	35.7

COM-POWER PAM-118**PREAMPLIFIER****S/N: 181653****CALIBRATION DATE: MARCH 7, 2022**

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	40.02	6.0	38.84
1.1	39.72	6.5	39.20
1.2	39.93	7.0	39.46
1.3	39.98	7.5	39.67
1.4	39.99	8.0	39.28
1.5	40.20	8.5	38.63
1.6	40.05	9.0	38.96
1.7	40.15	9.5	39.33
1.8	40.20	10.0	39.58
1.9	40.33	11.0	38.25
2.0	40.33	12.0	40.03
2.5	40.60	13.0	40.55
3.0	40.76	14.0	40.36
3.5	40.87	15.0	39.34
4.0	40.39	16.0	37.34
4.5	39.55	17.0	42.14
5.0	40.34	18.0	42.54
5.5	39.45		

COM-POWER PA-840

MICROWAVE PREAMPLIFIER

S/N: 711013

CALIBRATION DATE: APRIL 8, 2022

FREQUENCY (GHz)	FACTOR (dB)
18.0	24.85
19.0	24.25
20.0	22.69
21.0	22.17
22.0	22.78
23.0	23.23
24.0	23.72
25.0	24.13
26.0	24.28
26.5	25.06



FRONT VIEW

AVID IDENTIFICATION SYSTEMS, INC.

RFID READER

MODEL: AVID1050

BATTERY MODE

FCC SUBPART C – RADIATED EMISSIONS – BELOW 30 MHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



REAR VIEW

AVID IDENTIFICATION SYSTEMS, INC.

RFID READER

MODEL: AVID1050

BATTERY MODE

FCC SUBPART C – RADIATED EMISSIONS – BELOW 30 MHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



FRONT VIEW

AVID IDENTIFICATION SYSTEMS, INC.

RFID READER

MODEL: AVID1050

USB MODE

FCC SUBPART C – RADIATED EMISSIONS – BELOW 30 MHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



REAR VIEW

AVID IDENTIFICATION SYSTEMS, INC.

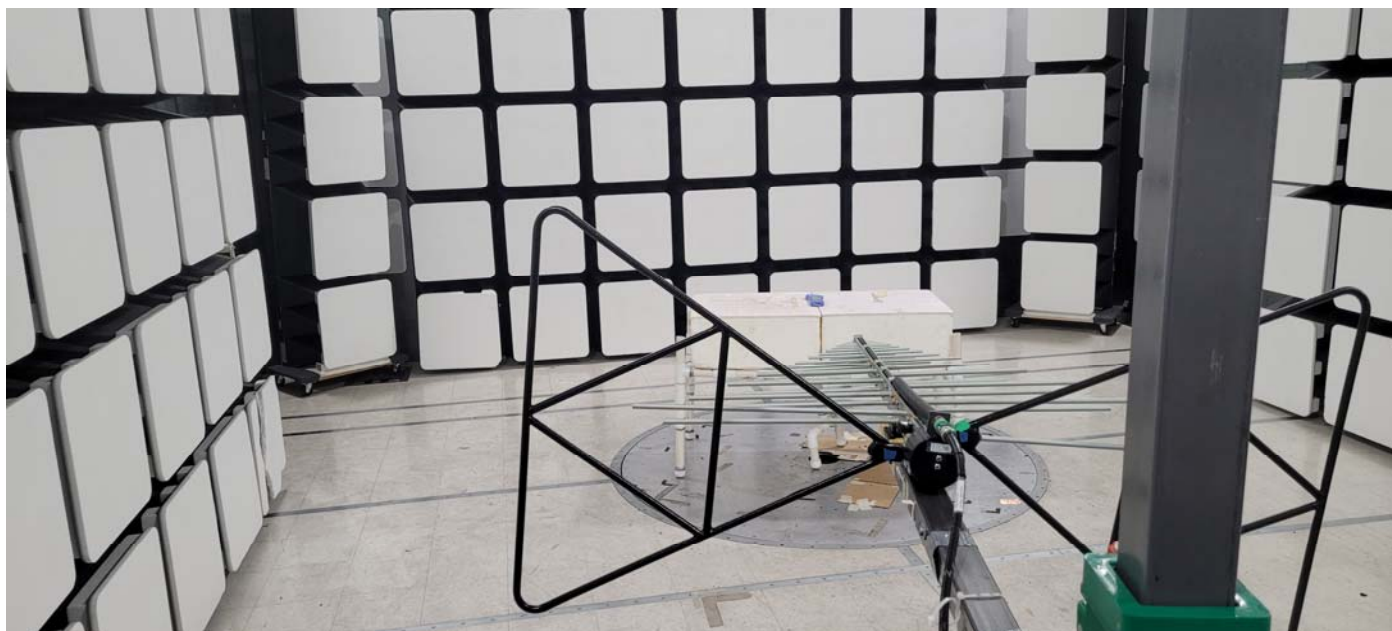
RFID READER

MODEL: AVID1050

USB MODE

FCC SUBPART C – RADIATED EMISSIONS – BELOW 30 MHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



FRONT VIEW

AVID IDENTIFICATION SYSTEMS, INC.

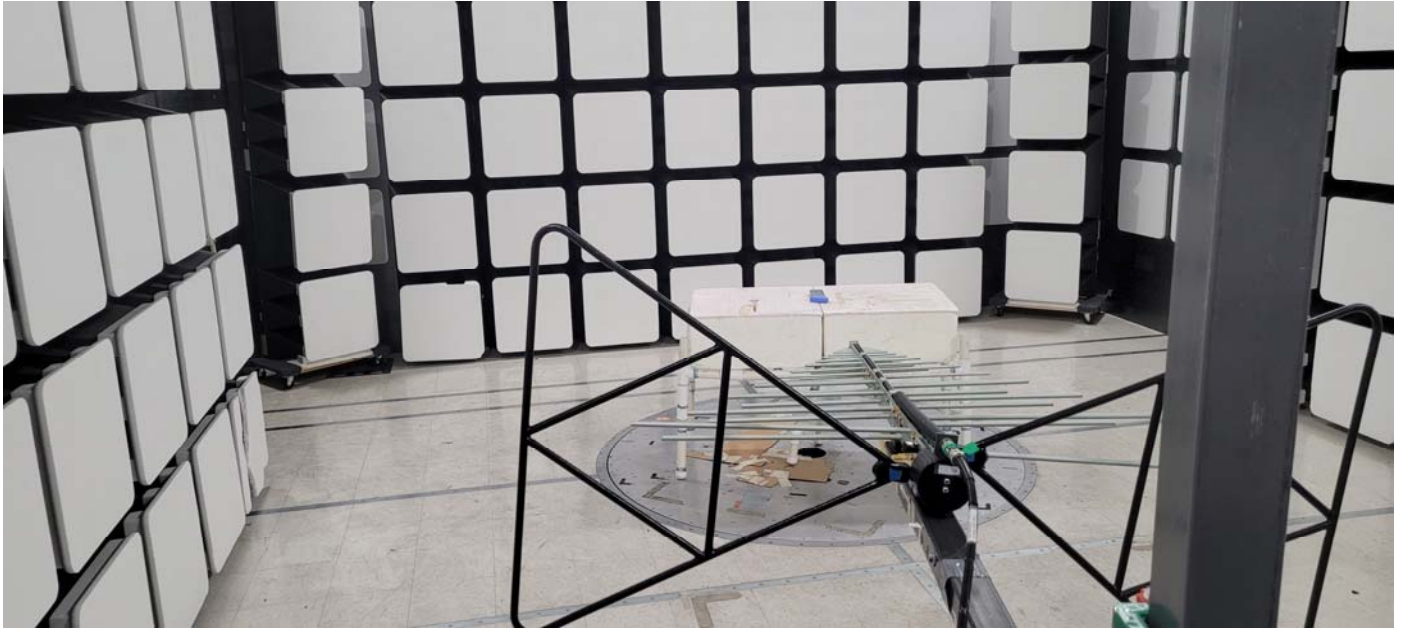
RFID READER

MODEL: AVID1050

BATTERY MODE

FCC SUBPART B AND C – RADIATED EMISSIONS – 30 MHz to 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



REAR VIEW

AVID IDENTIFICATION SYSTEMS, INC.

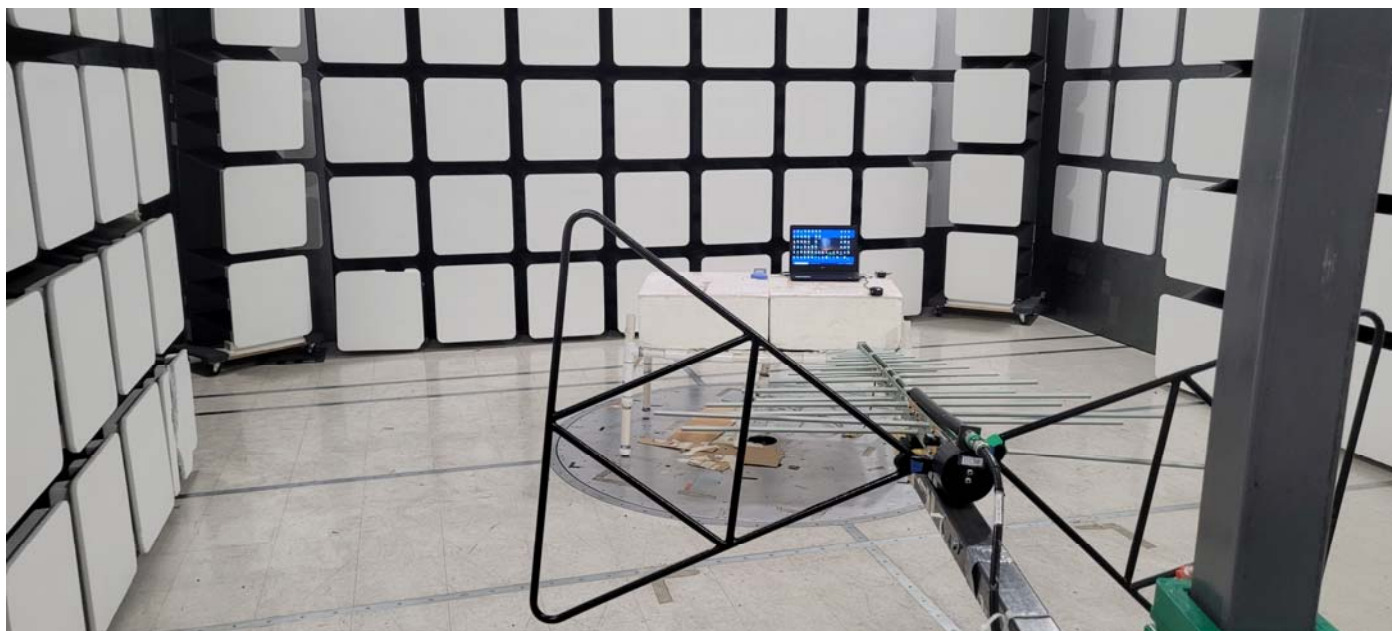
RFID READER

MODEL: AVID1050

BATTERY MODE

FCC SUBPART B AND C – RADIATED EMISSIONS – 30 MHz TO 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



FRONT VIEW

AVID IDENTIFICATION SYSTEMS, INC.

RFID READER

MODEL: AVID1050

USB MODE

FCC SUBPART B AND C – RADIATED EMISSIONS – 30 MHz TO 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



REAR VIEW

AVID IDENTIFICATION SYSTEMS, INC.

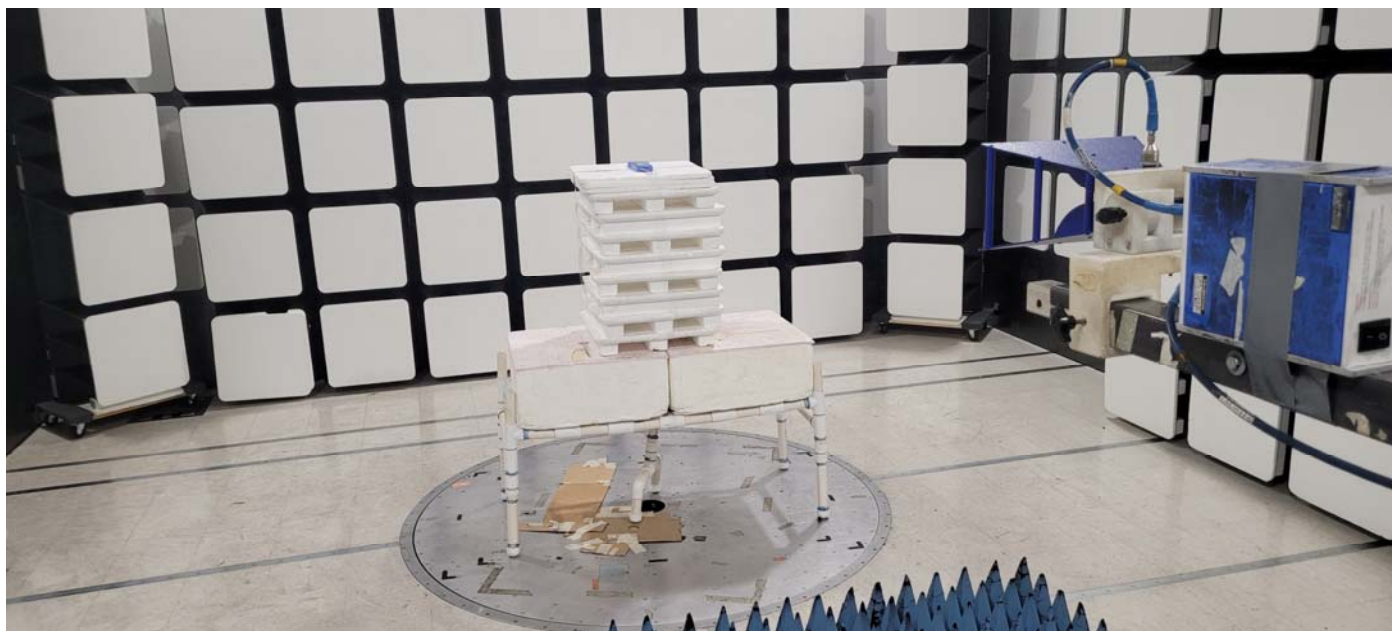
RFID READER

MODEL: AVID1050

USB MODE

FCC SUBPART B AND C – RADIATED EMISSIONS – 30 MHz TO 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



FRONT VIEW

AVID IDENTIFICATION SYSTEMS, INC.

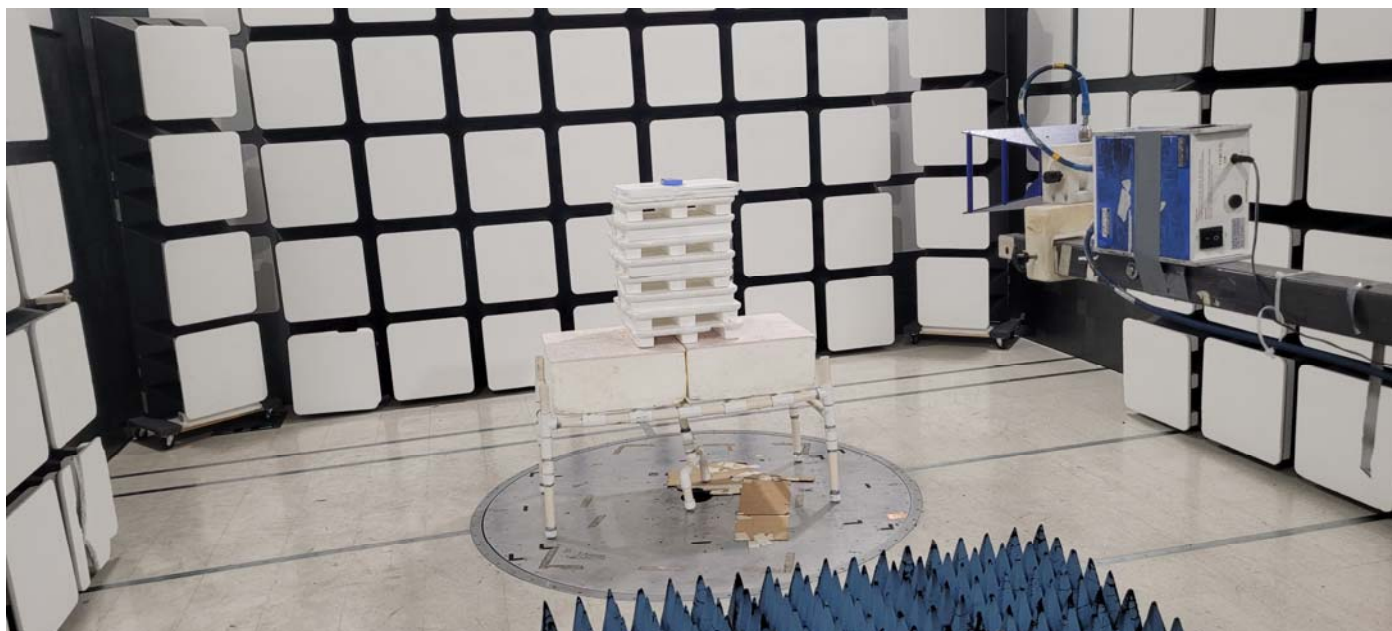
RFID READER

MODEL: AVID1050

BATTERY MODE

FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



REAR VIEW

AVID IDENTIFICATION SYSTEMS, INC.

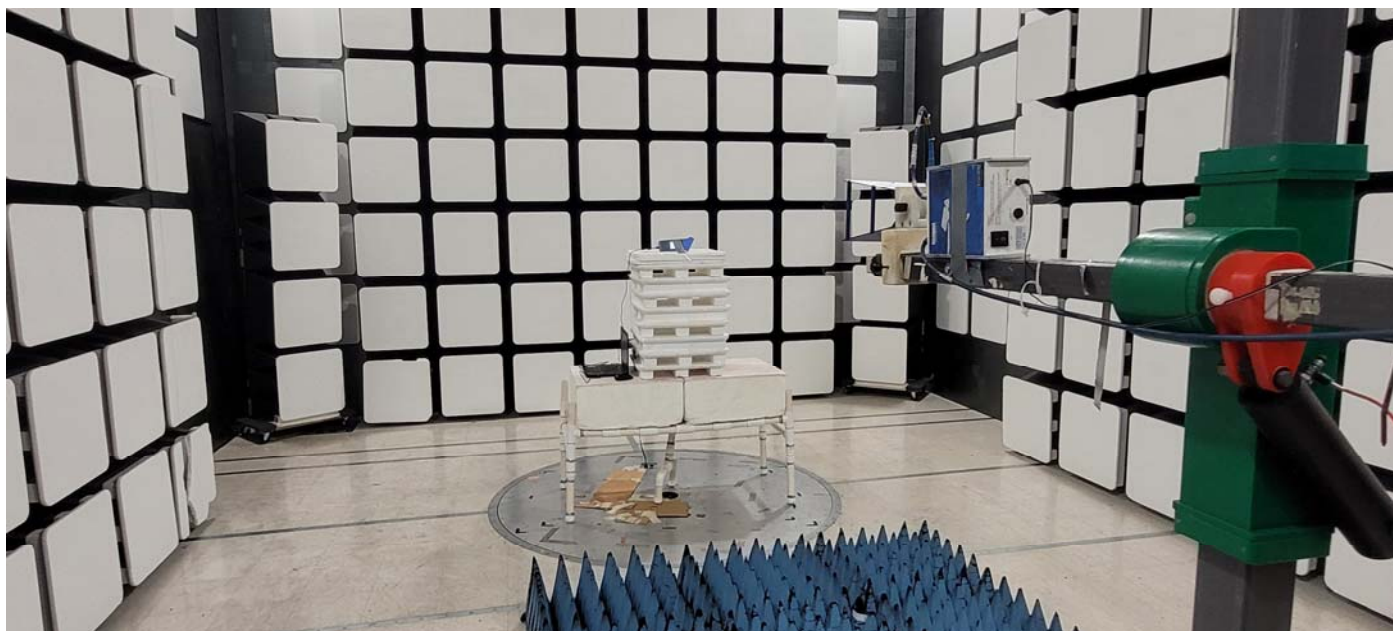
RFID READER

MODEL: AVID1050

BATTERY MODE

FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



FRONT VIEW

AVID IDENTIFICATION SYSTEMS, INC.

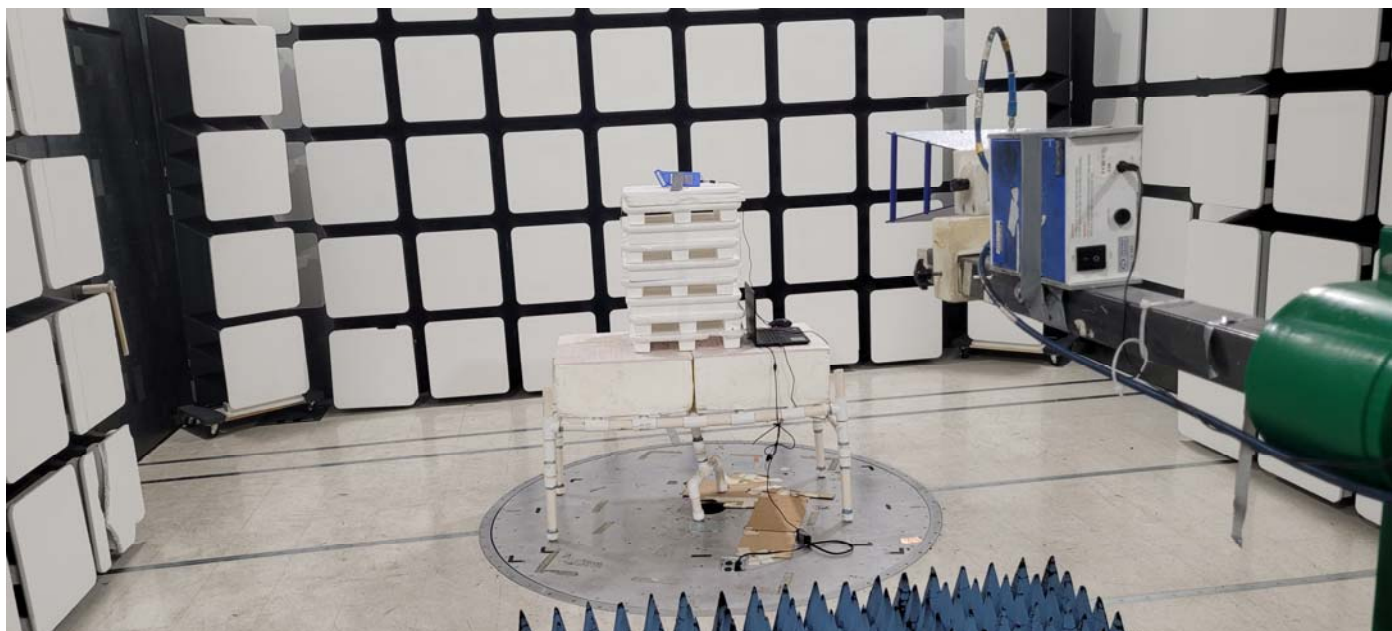
RFID READER

MODEL: AVID1050

USB MODE

FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



REAR VIEW

AVID IDENTIFICATION SYSTEMS, INC.

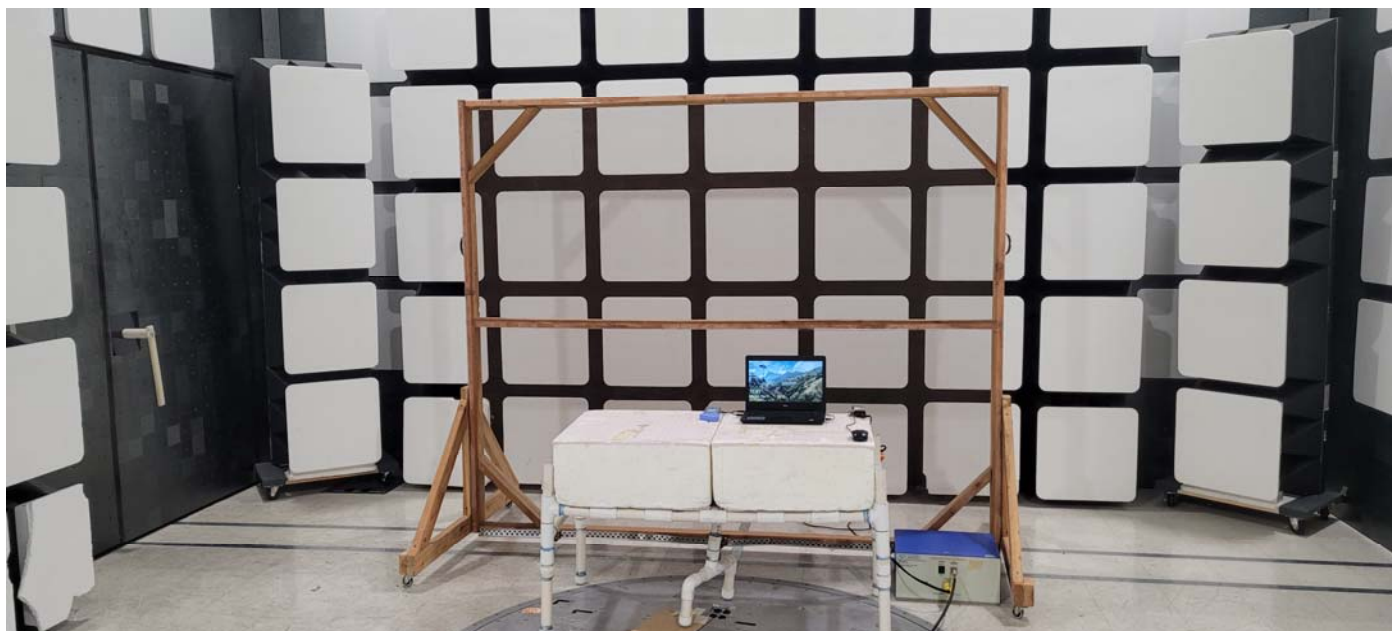
RFID READER

MODEL: AVID1050

USB MODE

FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



FRONT VIEW

AVID IDENTIFICATION SYSTEMS, INC.

RFID READER

MODEL: AVID1050

USB MODE

FCC SUBPART B AND C – CONDUCTED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**



REAR VIEW

AVID IDENTIFICATION SYSTEMS, INC.
RFID READER
MODEL: AVID1050
USB MODE
FCC SUBPART B AND C – CONDUCTED EMISSIONS

**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

APPENDIX E
DATA SHEETS

RADIATED EMISSIONS

DATA SHEETS

FCC 15.209
Avid Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2023
Lab: A
Tested By: Kyle FujimotoCW Mode - Antenna X-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	82.517	23.43	X	25.05	-1.62	Peak	1.00	180.00	See Note #1 Below
268.40	57.796	-1.29	X	19.03	-20.32	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Detected
536.80									No Emission Detected
671.00									No Emission Detected
805.20									No Emission Detected
939.40									No Emission Detected
1073.60									No Emission Detected
1207.80									No Emission Detected
1342.00									No Emission Detected

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
 $\text{dBuV/m} = 20 \text{ Log (uV/m)}$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209Avid Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2023
Lab: A
Tested By: Kyle FujimotoCW Mode - Antenna X-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	83.294	24.21	Y	25.05	-0.84	Peak	1.00	0.00	See Note #1 Below
268.40	58.256	-0.83	Y	19.03	-19.86	Peak	1.00	180.00	See Note #1 Below
402.60									No Emission Detected
536.80									No Emission Detected
671.00									No Emission Detected
805.20									No Emission Detected
939.40									No Emission Detected
1073.60									No Emission Detected
1207.80									No Emission Detected
1342.00									No Emission Detected

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = 20 Log (uV/m)

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209Avid Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2023
Lab: A
Tested By: Kyle FujimotoCW Mode - Antenna X-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	81.424	22.34	Z	25.05	-2.71	Peak	1.00	180.00	See Note #1 Below
268.40	60.61	1.53	Z	19.03	-17.50	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Detected
536.80									No Emission Detected
671.00									No Emission Detected
805.20									No Emission Detected
939.40									No Emission Detected
1073.60									No Emission Detected
1207.80									No Emission Detected
1342.00									No Emission Detected

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = $20 \log(uV/m)$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209
Avid Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2023
Lab: A
Tested By: Kyle FujimotoCW Mode - Antenna Y-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	79.217	20.13	X	25.05	-4.92	Peak	1.00	180.00	See Note #1 Below
268.40	56.659	-2.43	X	19.03	-21.45	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Detected
536.80									No Emission Detected
671.00									No Emission Detected
805.20									No Emission Detected
939.40									No Emission Detected
1073.60									No Emission Detected
1207.80									No Emission Detected
1342.00									No Emission Detected

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = $20 \log(uV/m)$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209
Avid Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2023
Lab: A
Tested By: Kyle FujimotoCW Mode - Antenna Y-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	77.91	18.83	Y	25.05	-6.22	Peak	1.00	0.00	See Note #1 Below
268.40	57.234	-1.85	Y	19.03	-20.88	Peak	1.00	180.00	See Note #1 Below
402.60									No Emission Detected
536.80									No Emission Detected
671.00									No Emission Detected
805.20									No Emission Detected
939.40									No Emission Detected
1073.60									No Emission Detected
1207.80									No Emission Detected
1342.00									No Emission Detected

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = $20 \log(uV/m)$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209
Avid Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2023
Lab: A
Tested By: Kyle FujimotoCW Mode - Antenna Y-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	74.927	15.84	Z	25.05	-9.21	Peak	1.00	180.00	See Note #1 Below
268.40	58.432	-0.65	Z	19.03	-19.68	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Detected
536.80									No Emission Detected
671.00									No Emission Detected
805.20									No Emission Detected
939.40									No Emission Detected
1073.60									No Emission Detected
1207.80									No Emission Detected
1342.00									No Emission Detected

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = 20 Log (uV/m)

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209
Avid Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/16/2023
Lab: A
Tested By: Kyle Fujimoto

CW Mode - Antenna Z-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	71.126	12.04	X	25.05	-13.01	Peak	1.00	180.00	See Note #1 Below
268.40	57.207	-1.88	X	19.03	-20.91	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Detected
536.80									No Emission Detected
671.00									No Emission Detected
805.20									No Emission Detected
939.40									No Emission Detected
1073.60									No Emission Detected
1207.80									No Emission Detected
1342.00									No Emission Detected

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = 20 Log (uV/m)

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209Avid Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2023
Lab: A
Tested By: Kyle FujimotoCW Mode - Antenna Z-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	77.529	18.44	Y	25.05	-6.61	Peak	1.00	0.00	See Note #1 Below
268.40	58.235	-0.85	Y	19.03	-19.88	Peak	1.00	180.00	See Note #1 Below
402.60									No Emission Detected
536.80									No Emission Detected
671.00									No Emission Detected
805.20									No Emission Detected
939.40									No Emission Detected
1073.60									No Emission Detected
1207.80									No Emission Detected
1342.00									No Emission Detected

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = 20 Log (uV/m)

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209

Avid Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2023
Lab: A
Tested By: Kyle FujimotoCW Mode - Antenna Z-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	79.771	20.69	Z	25.05	-4.36	Peak	1.00	180.00	See Note #1 Below
268.40	58.235	-0.85	Z	19.03	-19.88	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Detected
536.80									No Emission Detected
671.00									No Emission Detected
805.20									No Emission Detected
939.40									No Emission Detected
1073.60									No Emission Detected
1207.80									No Emission Detected
1342.00									No Emission Detected

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = $20 \log(uV/m)$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209
AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2013
Lab: A
Tested By: Kyle FujimotoCW Mode - Antenna X-Axis
USB Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	81.62	22.54	X	25.05	-2.51	Peak	1.00	180.00	See Note #1 Below
268.40	56.934	-2.15	X	19.03	-21.18	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = 20 Log (uV/m)

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209
AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2013
Lab: A
Tested By: Kyle FujimotoCW Mode - Antenna X-Axis
USB Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	79.751	20.67	Y	25.05	-4.38	Peak	1.00	0.00	See Note #1 Below
268.40	57.265	-1.82	Y	19.03	-20.85	Peak	1.00	180.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = $20 \log(uV/m)$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209
AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2013
Lab: A
Tested By: Kyle FujimotoCW Mode - Antenna X-Axis
USB Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	80.77	21.69	Z	25.05	-3.36	Peak	1.00	180.00	See Note #1 Below
268.40	61.232	2.15	Z	19.03	-16.88	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in $\mu\text{V/m}$ = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in $\mu\text{V/m}$ = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
 $\text{dBuV/m} = 20 \text{ Log } (\mu\text{V/m})$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/16/2013

Lab: A

Tested By: Kyle Fujimoto

CW Mode - Antenna Y-Axis

USB Powered

Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	78.749	19.66	X	25.05	-5.39	Peak	1.00	180.00	See Note #1 Below
268.40	55.265	-3.82	X	19.03	-22.85	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz

Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHzLimit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHzdBuV/m = 20 Log (uV/m)

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209
AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2013
Lab: A
Tested By: Kyle FujimotoCW Mode - Antenna Y-Axis
USB Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	78.798	19.71	Y	25.05	-5.34	Peak	1.00	0.00	See Note #1 Below
268.40	53.585	-5.50	Y	19.03	-24.53	Peak	1.00	180.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = 20 Log (uV/m)

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209
AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2013
Lab: A
Tested By: Kyle FujimotoCW Mode - Antenna Y-Axis
USB Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	72.58	13.50	Z	25.05	-11.55	Peak	1.00	180.00	See Note #1 Below
268.40	60.258	1.17	Z	19.03	-17.86	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in $\mu\text{V/m}$ = $2400/\text{F}$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in $\mu\text{V/m}$ = $24000/\text{F}$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
 $\text{dBuV/m} = 20 \text{ Log } (\mu\text{V/m})$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/16/2013

Lab: A

Tested By: Kyle Fujimoto

CW Mode - Antenna Z-Axis
USB Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	73.123	14.04	X	25.05	-11.01	Peak	1.00	180.00	See Note #1 Below
268.40	54.268	-4.82	X	19.03	-23.85	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = 20 Log (uV/m)

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2013
Lab: A
Tested By: Kyle FujimotoCW Mode - Antenna Z-Axis
USB Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	76.126	17.04	Y	25.05	-8.01	Peak	1.00	0.00	See Note #1 Below
268.40	52.587	-6.50	Y	19.03	-25.53	Peak	1.00	180.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in $\mu\text{V/m}$ = $2400/\text{F}$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in $\mu\text{V/m}$ = $24000/\text{F}$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
 $\text{dBuV/m} = 20 \text{ Log } (\mu\text{V/m})$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/16/2013

Lab: A

Tested By: Kyle Fujimoto

CW Mode - Antenna Z-Axis

USB Powered

Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	80.706	21.62	Z	25.05	-3.43	Peak	1.00	180.00	See Note #1 Below
268.40	59.268	0.18	Z	19.03	-18.85	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz

Limit in $\mu\text{V/m}$ = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHzLimit in $\mu\text{V/m}$ = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz $\text{dBuV/m} = 20 \text{ Log } (\mu\text{V/m})$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209

Avid Identification Systems, Inc.

RFID Reader

Model: AVID1050

Date: 05/16/2023

Lab: A

Tested By: Kyle Fujimoto

Modulated Mode - Antenna X-Axis

Battery Powered

Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	67.169	8.08	X	25.05	-16.97	Peak	1.00	180.00	See Note #1 Below
268.40	48.356	-10.73	X	19.03	-29.76	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Detected
536.80									No Emission Detected
671.00									No Emission Detected
805.20									No Emission Detected
939.40									No Emission Detected
1073.60									No Emission Detected
1207.80									No Emission Detected
1342.00									No Emission Detected

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz

Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHzLimit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHzdBuV/m = $20 \log(uV/m)$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209

Avid Identification Systems, Inc.

RFID Reader

Model: AVID1050

Date: 05/16/2023

Lab: A

Tested By: Kyle Fujimoto

Modulated Mode - Antenna X-Axis

Battery Powered

Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	67.802	8.72	Y	25.05	-16.33	Peak	1.00	0.00	See Note #1 Below
268.40	47.562	-11.52	Y	19.03	-30.55	Peak	1.00	180.00	See Note #1 Below
402.60									No Emission Detected
536.80									No Emission Detected
671.00									No Emission Detected
805.20									No Emission Detected
939.40									No Emission Detected
1073.60									No Emission Detected
1207.80									No Emission Detected
1342.00									No Emission Detected

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz

Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHzLimit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHzdBuV/m = 20 Log (uV/m)

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209Avid Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2023
Lab: A
Tested By: Kyle FujimotoModulated Mode - Antenna X-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	66.12	7.04	Z	25.05	-18.01	Peak	1.00	180.00	See Note #1 Below
268.40	49.564	-9.52	Z	19.03	-28.55	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Detected
536.80									No Emission Detected
671.00									No Emission Detected
805.20									No Emission Detected
939.40									No Emission Detected
1073.60									No Emission Detected
1207.80									No Emission Detected
1342.00									No Emission Detected

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = $20 \log(uV/m)$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209Avid Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2023
Lab: A
Tested By: Kyle FujimotoModulated Mode - Antenna Y-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	64.501	5.42	X	25.05	-19.63	Peak	1.00	180.00	See Note #1 Below
268.40	43.256	-15.83	X	19.03	-34.86	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = $20 \log(uV/m)$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209Avid Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2023
Lab: A
Tested By: Kyle FujimotoModulated Mode - Antenna Y-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	62.863	3.78	Y	25.05	-21.27	Peak	1.00	0.00	See Note #1 Below
268.40	45.632	-13.45	Y	19.03	-32.48	Peak	1.00	180.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in $\mu\text{V/m}$ = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in $\mu\text{V/m}$ = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
 $\text{dBuV/m} = 20 \text{ Log } (\mu\text{V/m})$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209
Avid Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2023
Lab: A
Tested By: Kyle FujimotoModulated Mode - Antenna Y-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	59.392	0.31	Z	25.05	-24.74	Peak	1.00	180.00	See Note #1 Below
268.40	47.321	-11.76	Z	19.03	-30.79	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in $\mu\text{V/m}$ = $2400/\text{F}$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in $\mu\text{V/m}$ = $24000/\text{F}$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
 $\text{dBuV/m} = 20 \text{ Log } (\mu\text{V/m})$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2023
Lab: A
Tested By: Kyle FujimotoModulated Mode - Antenna Z-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	57.759	-1.33	X	25.05	-26.38	Peak	1.00	180.00	See Note #1 Below
268.40	47.565	-11.52	X	19.03	-30.55	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
 $\text{dBuV/m} = 20 \text{ Log (uV/m)}$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209
AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2023
Lab: A
Tested By: Kyle FujimotoModulated Mode - Antenna Z-Axis
Battery Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	63.036	3.95	Y	25.05	-21.10	Peak	1.00	0.00	See Note #1 Below
268.40	45.652	-13.43	Y	19.03	-32.46	Peak	1.00	180.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in $\mu\text{V/m}$ = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in $\mu\text{V/m}$ = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
 $\text{dBuV/m} = 20 \text{ Log } (\mu\text{V/m})$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/16/2023

Lab: A

Tested By: Kyle Fujimoto

Modulated Mode - Antenna Z-Axis**Battery Powered****Test Distance: 10 Meters**

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	66.28	7.20	Z	25.05	-17.85	Peak	1.00	180.00	See Note #1 Below
268.40	46.532	-12.55	Z	19.03	-31.58	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz

Limit in $\mu\text{V/m}$ = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHzLimit in $\mu\text{V/m}$ = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz $\text{dBuV/m} = 20 \text{ Log } (\mu\text{V/m})$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2013
Lab: A
Tested By: Kyle Fujimoto**Modulated Mode - Antenna X-Axis**
USB Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	65.953	6.87	X	25.05	-18.18	Peak	1.00	180.00	See Note #1 Below
268.40	44.268	-14.82	X	19.03	-33.85	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
 $\text{dBuV/m} = 20 \text{ Log (uV/m)}$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209
AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2013
Lab: A
Tested By: Kyle FujimotoTransmit Mode - Antenna X-Axis
Modulated Mode - USB Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	61.526	2.44	Y	25.05	-22.61	Peak	1.00	0.00	See Note #1 Below
268.40	43.254	-15.83	Y	19.03	-34.86	Peak	1.00	180.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in $\mu\text{V/m}$ = $2400/\text{F}$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in $\mu\text{V/m}$ = $24000/\text{F}$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
 $\text{dBuV/m} = 20 \text{ Log } (\mu\text{V/m})$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2013
Lab: A
Tested By: Kyle FujimotoTransmit Mode - Antenna X-Axis
Modulated Mode - USB Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	65.223	6.14	Z	25.05	-18.91	Peak	1.00	180.00	See Note #1 Below
268.40	45.268	-13.82	Z	19.03	-32.85	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in $\mu\text{V/m}$ = $2400/\text{F}$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in $\mu\text{V/m}$ = $24000/\text{F}$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
 $\text{dBuV/m} = 20 \text{ Log } (\mu\text{V/m})$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209

AVID Identification Systems, Inc.

RFID Reader

Model: AVID1050

Date: 05/16/2013

Lab: A

Tested By: Kyle Fujimoto

Modulated Mode - Antenna Y-Axis

USB Powered

Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	63.274	4.19	X	25.05	-20.86	Peak	1.00	180.00	See Note #1 Below
268.40	43.596	-15.49	X	19.03	-34.52	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz

Limit in uV/m = 2400/F (kHz) at 300 Meters from 9 kHz to 490 kHz

Limit in uV/m = 24000/F (kHz) at 30 Meters from 490 kHz to 1705 kHz

dBuV/m = 20 Log (uV/m)

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/16/2013

Lab: A

Tested By: Kyle Fujimoto

Modulated Mode - Antenna Y-Axis
USB Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	62.154	3.07	Y	25.05	-21.98	Peak	1.00	0.00	See Note #1 Below
268.40	44.263	-14.82	Y	19.03	-33.85	Peak	1.00	180.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = 20 Log (uV/m)

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209
AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2013
Lab: A
Tested By: Kyle FujimotoModulated Mode - Antenna Y-Axis
USB Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	57.547	-1.54	Z	25.05	-26.59	Peak	1.00	180.00	See Note #1 Below
268.40	48.568	-10.52	Z	19.03	-29.55	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in $\mu\text{V/m}$ = $2400/\text{F}$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in $\mu\text{V/m}$ = $24000/\text{F}$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
 $\text{dBuV/m} = 20 \text{ Log } (\mu\text{V/m})$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2013
Lab: A
Tested By: Kyle Fujimoto**Modulated Mode - Antenna Z-Axis**
USB Powered
Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	58.937	-0.15	X	25.05	-25.20	Peak	1.00	180.00	See Note #1 Below
268.40	42.568	-16.52	X	19.03	-35.55	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = $20 \log(uV/m)$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209

AVID Identification Systems, Inc.

RFID Reader

Model: AVID1050

Date: 05/16/2013

Lab: A

Tested By: Kyle Fujimoto

Modulated Mode - Antenna Z-Axis

USB Powered

Test Distance: 10 Meters

Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	63.125	4.04	Y	25.05	-21.01	Peak	1.00	0.00	See Note #1 Below
268.40	43.596	-15.49	Y	19.03	-34.52	Peak	1.00	180.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz

Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHzLimit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHzdBuV/m = $20 \log(uV/m)$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

FCC 15.209
AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/16/2013
Lab: A
Tested By: Kyle FujimotoModulated Mode - Antenna Z-Axis
USB Powered
Test Distance: 10 Meters

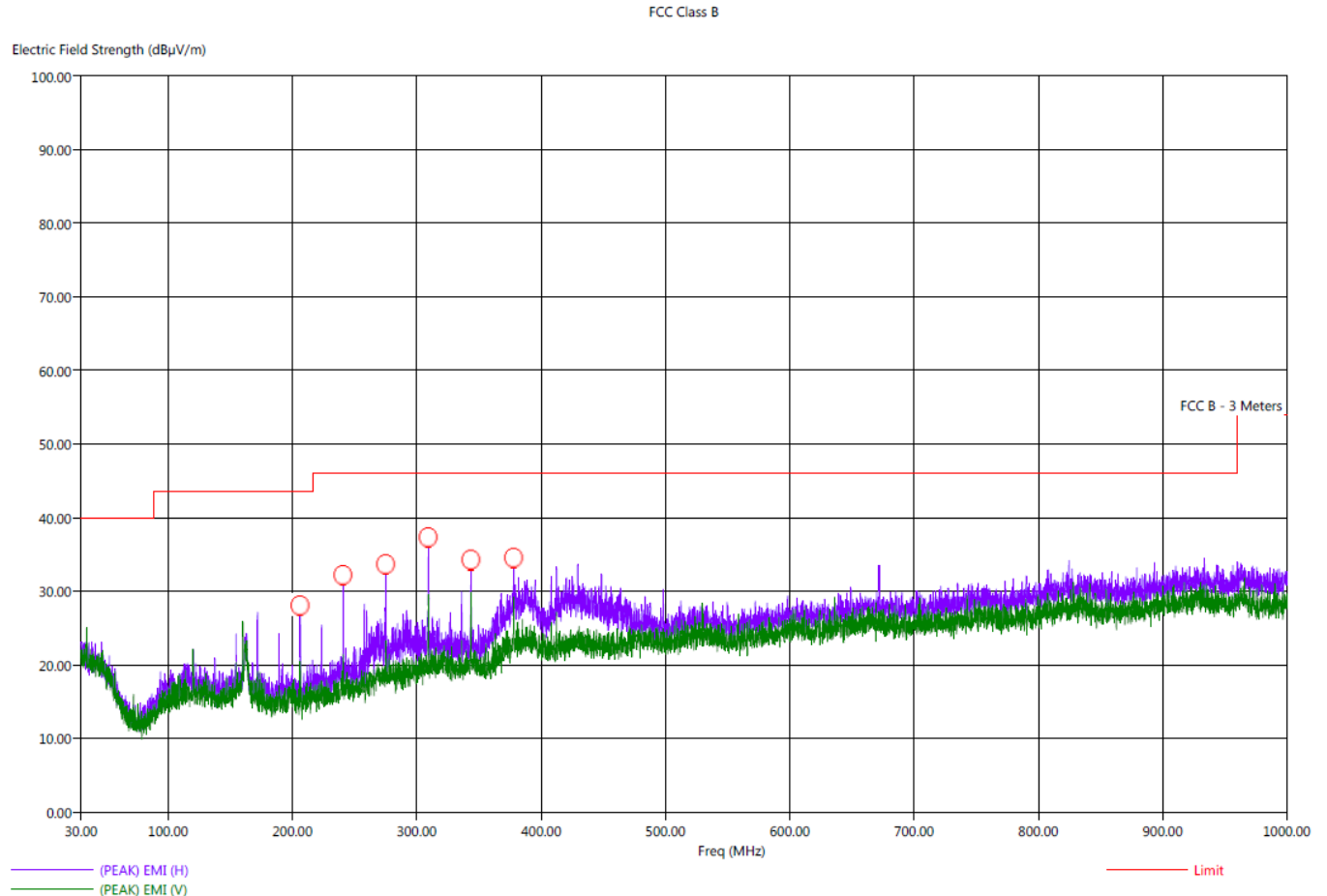
Freq. (kHz)	Level at 10 Meters (dBuV/m)	Corrected Level at Limit Distance* (dBuV/m)	EUT Axis (x/y/z)	Spec Limit per FCC 15.209	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
134.20	65.714	6.63	Z	25.05	-18.42	Peak	1.00	180.00	See Note #1 Below
268.40	50.215	-8.87	Z	19.03	-27.90	Peak	1.00	0.00	See Note #1 Below
402.60									No Emission Found
536.80									No Emission Found
671.00									No Emission Found
805.20									No Emission Found
939.40									No Emission Found
1073.60									No Emission Found
1207.80									No Emission Found
1342.00									No Emission Found

*300 Meters from 9 kHz to 490 kHz and 30 Meters above 490 kHz
Limit in uV/m = $2400/F$ (kHz) at 300 Meters from 9 kHz to 490 kHz
Limit in uV/m = $24000/F$ (kHz) at 30 Meters from 490 kHz to 1705 kHz
dBuV/m = $20 \log(uV/m)$

Note #1: Equation (4) of ANSI C63.10: 2013 was used to obtain the corrected level at 300 Meters

Title: Pre-Scan - FCC Class B
File: 1 - LF - Pre-Scan - Battery Mode - X-Axis - CW Mode - FCC Class B - 30 MHz to 1000 MHz - 05-16-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in CW Mode and BLE at 2402 MHz
Company: Avid Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FFC
X-Axis - Battery Mode

5/16/2023 3:31:39 PM
Sequence: Preliminary Scan



Title: Radiated Final - FCC Class B
File: 1 - LF - Final Scan - Battery Mode - X-Axis - CW Mode - FCC Class B - 30 MHz to 1000 MHz - 05-16-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in CW Mode and BLE at 2402 MHz
Company: AVID Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FFC
X-Axis - Battery Mode

5/16/2023 4:05:05 PM
Sequence: Final Measurements

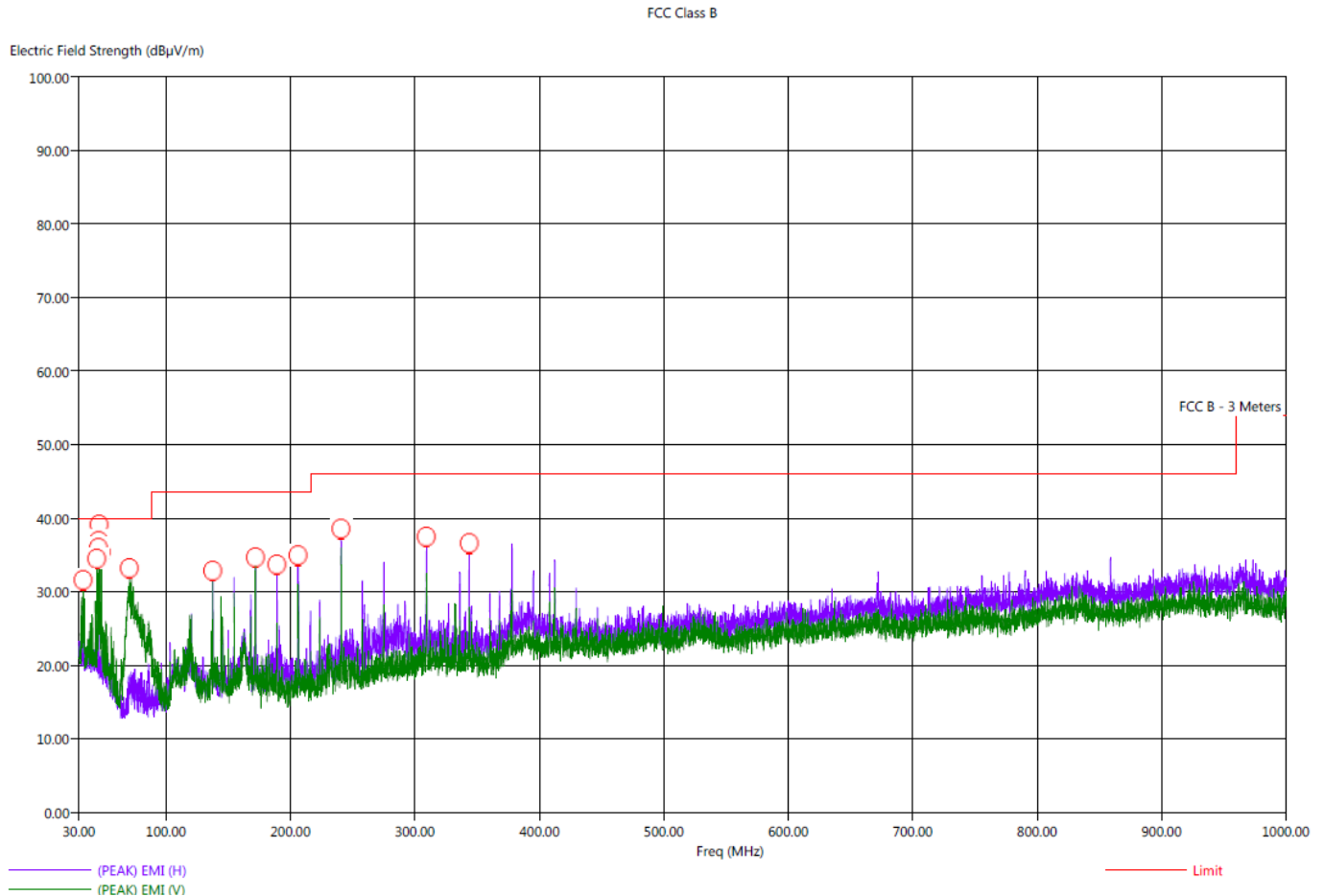
FCC Class B

Freq (MHz)	Pol	(PEAK) EMI (dBµV/m)	(OP) EMI (dBµV/m)	(PEAK) Margin (dB)	(QP) Margin (dB)	Limit (dBµV/m)	Transducer (dB)	Cable (dB)	Ttbl Aql (deg)	Twr Ht (cm)
206.10	H	29.89	28.73	-13.61	-14.77	43.50	15.70	1.09	94.00	127.02
240.50	H	34.03	33.29	-11.97	-12.71	46.00	17.25	1.12	291.25	111.32
274.90	H	35.82	32.99	-10.18	-13.01	46.00	19.00	1.26	91.50	111.68
309.20	H	38.35	37.32	-7.65	-8.68	46.00	20.12	1.38	94.00	111.62
343.50	H	35.85	34.20	-10.15	-11.80	46.00	20.30	1.44	269.50	111.32
377.90	H	35.97	33.46	-10.03	-12.54	46.00	22.69	1.51	251.75	255.08



Title: Pre-Scan - FCC Class B
File: 2 - LF - Pre-Scan - USB Mode - X-Axis - CW Mode and BLE - FCC Class B - 30 MHz to 1000 MHz - 05-17-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in CW Mode and BLE at 2402 MHz
Company: Avid Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FPC
X-Axis - USB Mode

5/17/2023 8:17:09 AM
Sequence: Preliminary Scan



Title: Radiated Final - FCC Class B
File: 2 - LF - Final Scan - USB Mode - X-Axis - CW Mode and BLE - FCC Class B - 30 MHz to 1000 MHz - 05-17-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in CW Mode and BLE at 2402 MHz
Company: AVID Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FFC
X-Axis - USB Mode

5/17/2023 8:28:09 AM
Sequence: Final Measurements

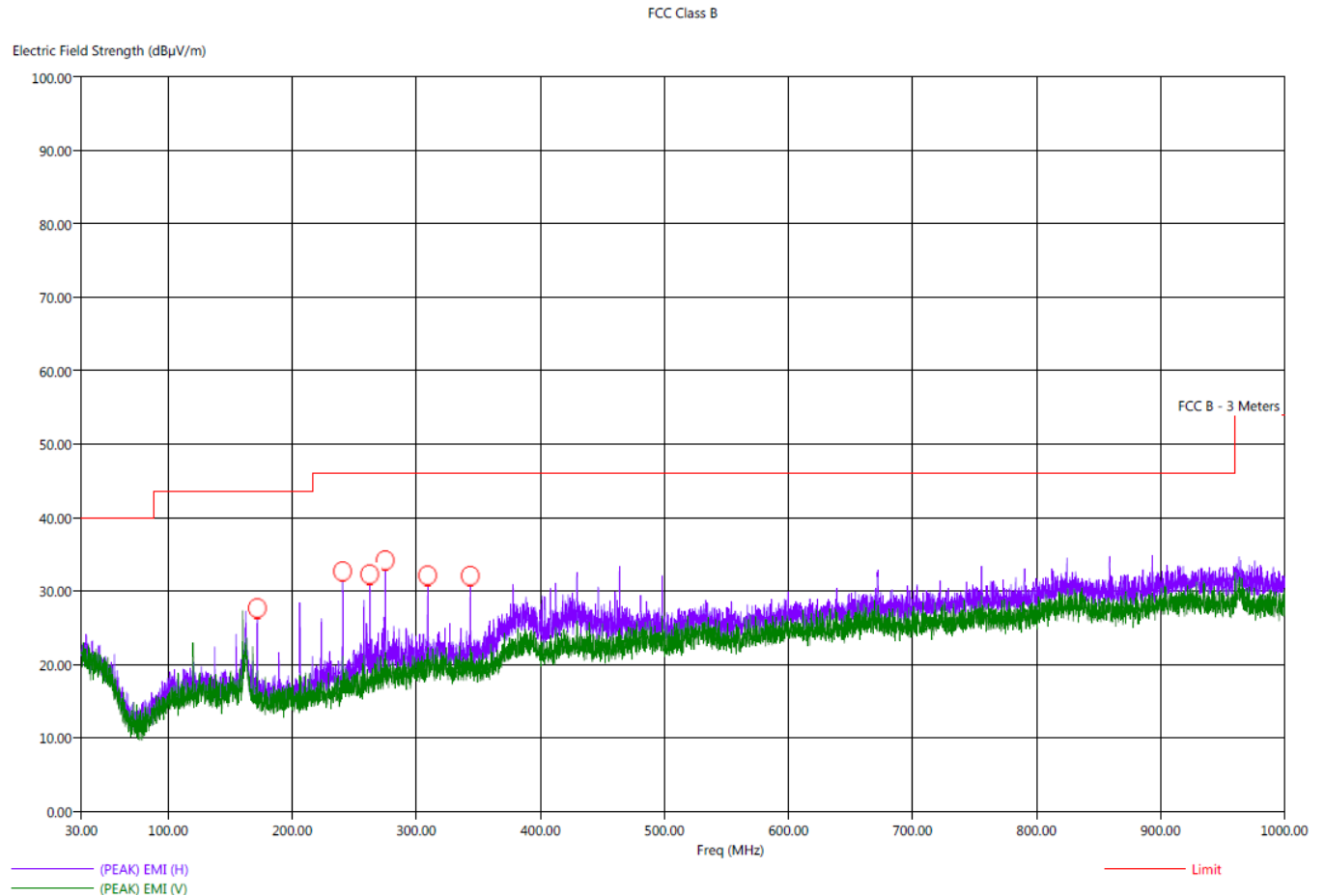
FCC Class B

Freq (MHz)	Pol	(PEAK) EMI (dBμV/m)	(QP) EMI (dBμV/m)	(PEAK) Margin (dB)	(QP) Margin (dB)	Limit (dBμV/m)	Transducer (dB)	Cable (dB)	TtBl Aql (deg)	Twr Ht (cm)
33.30	V	34.64	28.87	-5.36	-11.13	40.00	21.70	0.38	358.75	127.32
44.30	V	33.01	26.67	-6.99	-13.33	40.00	20.67	0.44	264.25	143.02
45.60	V	39.45	33.12	-0.55	-6.88	40.00	20.44	0.44	255.75	143.14
45.80	V	38.45	32.27	-1.55	-7.73	40.00	20.44	0.44	280.75	175.08
46.20	V	40.64	33.11	0.64	-6.89	40.00	20.42	0.45	278.75	111.38
47.90	V	41.47	35.04	1.47	-4.96	40.00	20.11	0.45	282.50	143.26
70.40	V	33.77	29.08	-6.23	-10.92	40.00	12.71	0.59	262.75	111.20
137.40	V	34.37	32.84	-9.13	-10.66	43.50	16.06	0.86	235.50	111.26
171.80	H	37.01	36.22	-6.49	-7.28	43.50	16.00	0.97	49.50	111.26
189.00	H	34.67	33.74	-8.83	-9.76	43.50	15.50	1.03	359.25	159.26
206.10	H	37.20	36.50	-6.30	-7.00	43.50	15.70	1.09	344.00	127.26
240.50	H	42.45	41.65	-3.55	-4.35	46.00	17.25	1.12	320.50	111.38
309.20	H	38.60	37.19	-7.40	-8.81	46.00	20.12	1.38	69.50	111.32
343.60	H	37.72	36.31	-8.28	-9.69	46.00	20.30	1.44	76.00	111.20



Title: Pre-Scan - FCC Class B
File: 3 - LF - Pre-Scan - Battery Mode - X-Axis - Modulated Mode and BLE - FCC Class B - 30 MHz to 1000 MHz - 05-17-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in Modulated Mode and BLE at 2480 MHz
Company: Avid Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FFC
X-Axis - Battery Mode

5/17/2023 9:52:36 AM
Sequence: Preliminary Scan



Title: Radiated Final - FCC Class B
File: 3 - LF - Final Scan - Battery Mode - X-Axis - Modulated Mode and BLE - FCC Class B - 30 MHz to 1000 MHz - 05-17-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in Modulated Mode and BLE at 2480 MHz
Company: AVID Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FFC
X-Axis - Battery Mode

5/17/2023 10:07:48 AM
Sequence: Final Measurements

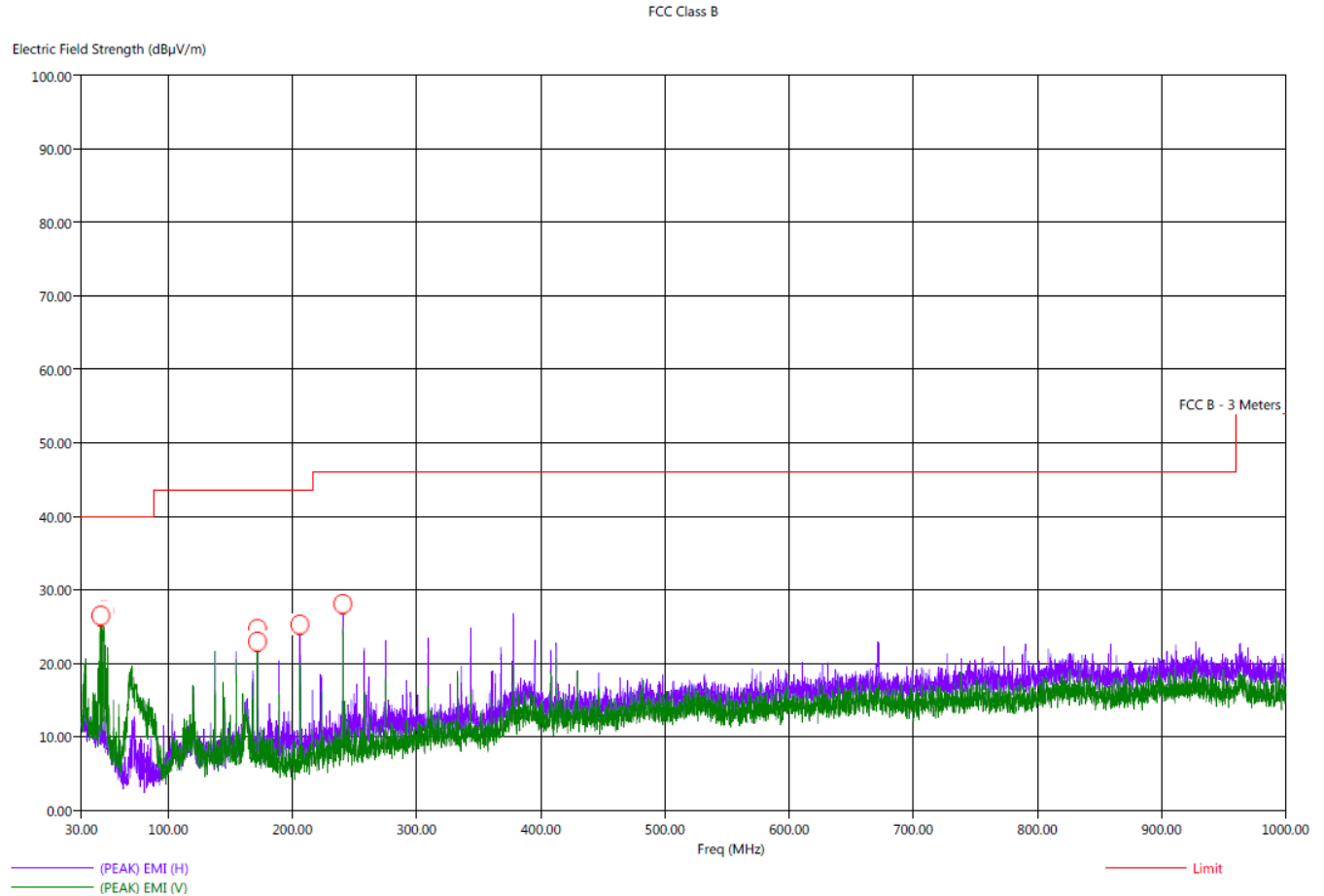
FCC Class B

Freq (MHz)	Pol	(PEAK) EMI (dBµV/m)	(QP) EMI (dBµV/m)	(PEAK) Margin (dB)	(QP) Margin (dB)	Limit (dBµV/m)	Transducer (dB)	Cable (dB)	Ttbl Aql (da)	Twr Ht (cm)
171.80	H	29.40	27.59	-14.10	-15.91	43.50	16.00	0.97	105.25	222.67
240.50	H	34.07	32.91	-11.93	-13.09	46.00	17.25	1.12	273.50	111.32
262.50	H	29.40	20.22	-16.60	-25.78	46.00	18.16	1.18	272.25	143.20
274.90	H	34.82	33.21	-11.18	-12.79	46.00	19.00	1.26	89.50	111.50
309.20	H	34.79	33.19	-11.21	-12.81	46.00	20.12	1.38	240.50	111.08
343.50	H	32.55	29.89	-13.45	-16.11	46.00	20.30	1.44	247.00	111.38



Title: Pre-Scan - FCC Class B
File: 4 - LF - Pre-Scan - USB Mode - X-Axis - Modulated Mode and BLE - FCC Class B - 30 MHz to 1000 MHz - 05-17-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in Modulated Mode and BLE at 2480 MHz
Company: Avid Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FFC
X-Axis - USB Mode

5/17/2023 9:13:31 AM
Sequence: Preliminary Scan



Title: Radiated Final - FCC Class B
File: 4 - LF - Final Scan - USB Mode - X-Axis - Modulated Mode and BLE - FCC Class B - 30 MHz to 1000 MHz - 05-17-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in Modulated Mode and BLE at 2480 MHz
Company: AVID Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FFC
X-Axis - USB Mode

5/17/2023 9:23:45 AM
Sequence: Final Measurements

FCC Class B

Freq (MHz)	Pol	(PEAK) EMI (dBµV/m)	(QP) EMI (dBµV/m)	(PEAK) Margin (dB)	(QP) Margin (dB)	Limit (dBµV/m)	Transducer (dB)	Cable (dB)	Ttbt Aql (deq)	Twr Ht (cm)
45.70	V	29.45	22.68	-10.55	-17.32	40.00	20.44	0.44	168.00	127.26
46.20	V	30.28	23.25	-9.72	-16.75	40.00	20.38	0.45	313.00	111.26
48.30	V	33.52	28.13	-6.48	-11.87	40.00	20.09	0.45	275.00	142.97
171.80	H	28.33	27.59	-15.17	-15.91	43.50	16.00	0.97	38.50	159.08
171.80	V	24.56	23.60	-18.94	-19.90	43.50	16.00	0.97	311.00	174.85
206.10	H	26.66	23.60	-16.84	-19.90	43.50	15.70	1.09	337.50	127.14
240.50	H	32.18	30.97	-13.82	-15.03	46.00	17.25	1.12	308.00	111.20



FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Low Channel - X-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	46.88	V	73.97	-27.09	Peak	75.00	111.44	
4804.00	34.65	V	53.97	-19.32	Avg	75.00	111.44	
7206.00								Not in Restricted Band
7206.00								
9608.00								Not in Restricted Band
9608.00								
12010.00	47.50	V	73.97	-26.47	Peak	317.50	159.68	
12010.00	35.60	V	53.97	-18.37	Avg	317.50	159.68	
14412.00								No Emission Detected
14412.00								
16814.00								No Emission Detected
16814.00								
19216.00								No Emission Detected
19216.00								
21618.00								No Emission Detected
21618.00								
24020.00								No Emission Detected
24020.00								

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Low Channel - Y-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	43.17	V	73.97	-30.80	Peak	91.00	207.74	
4804.00	30.46	V	53.97	-23.51	Avg	91.00	207.74	
7206.00								Not in Restricted Band
7206.00								
9608.00								Not in Restricted Band
9608.00								
12010.00	46.99	V	73.97	-26.98	Peak	42.75	207.20	
12010.00	35.52	V	53.97	-18.45	Avg	42.75	207.20	
14412.00								No Emission Detected
14412.00								
16814.00								No Emission Detected
16814.00								
19216.00								No Emission Detected
19216.00								
21618.00								No Emission Detected
21618.00								
24020.00								No Emission Detected
24020.00								

FCC 15.247

AVID Identification Systems, Inc.
 RFID Reader
 Model: AVID1050

Date: 05/18/2023
 Lab: D
 Tested By: Kyle Fujimoto

**Harmonics Low Channel - Z-Axis
 USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	42.72	V	73.97	-31.25	Peak	72.75	207.32	
4804.00	29.72	V	53.97	-24.25	Avg	72.75	207.32	
7206.00								Not in Restricted Band
7206.00								
9608.00								Not in Restricted Band
9608.00								
12010.00	47.11	V	73.97	-26.86	Peak	86.50	207.32	
12010.00	35.49	V	53.97	-18.48	Avg	86.50	207.32	
14412.00								No Emission Detected
14412.00								
16814.00								No Emission Detected
16814.00								
19216.00								No Emission Detected
19216.00								
21618.00								No Emission Detected
21618.00								
24020.00								No Emission Detected
24020.00								

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Low Channel - X-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	47.38	H	73.97	-26.59	Peak	26.50	143.08	
4804.00	35.67	H	53.97	-18.30	Avg	26.50	143.08	
7206.00								Not in Restricted Band
7206.00								
9608.00								Not in Restricted Band
9608.00								
12010.00	47.43	H	73.97	-26.54	Peak	319.75	239.38	
12010.00	35.58	H	53.97	-18.39	Avg	319.75	239.38	
14412.00								No Emission Detected
14412.00								
16814.00								No Emission Detected
16814.00								
19216.00								No Emission Detected
19216.00								
21618.00								No Emission Detected
21618.00								
24020.00								No Emission Detected
24020.00								

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Low Channel - Y-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	49.61	H	73.97	-24.36	Peak	155.25	111.14	
4804.00	38.30	H	53.97	-15.67	Avg	155.25	111.14	
7206.00								Not in Restricted Band
7206.00								
9608.00								Not in Restricted Band
9608.00								
12010.00	47.35	H	73.97	-26.62	Peak	95.75	175.32	
12010.00	35.60	H	53.97	-18.37	Avg	95.75	175.32	
14412.00								No Emission Detected
14412.00								
16814.00								No Emission Detected
16814.00								
19216.00								No Emission Detected
19216.00								
21618.00								No Emission Detected
21618.00								
24020.00								No Emission Detected
24020.00								

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Low Channel - Z-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	50.77	H	73.97	-23.20	Peak	163.00	111.20	
4804.00	36.85	H	53.97	-17.12	Avg	163.00	111.20	
7206.00								Not in Restricted Band
7206.00								
9608.00								Not in Restricted Band
9608.00								
12010.00	47.68	H	73.97	-26.29	Peak	160.25	159.62	
12010.00	35.62	H	53.97	-18.35	Avg	160.25	159.62	
14412.00								No Emission Detected
14412.00								
16814.00								No Emission Detected
16814.00								
19216.00								No Emission Detected
19216.00								
21618.00								No Emission Detected
21618.00								
24020.00								No Emission Detected
24020.00								

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AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Middle Channel - X-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	44.33	V	73.97	-29.64	Peak	93.00	112.46	
4880.00	31.99	V	53.97	-21.98	Avg	93.00	112.46	
7320.00	45.90	V	73.97	-28.07	Peak	184.00	110.91	
7320.00	32.84	V	53.97	-21.13	Avg	184.00	110.91	
9760.00								Not in Restricted Band
9760.00								
12200.00	48.07	V	73.97	-25.90	Peak	195.25	159.56	
12200.00	35.76	V	53.97	-18.21	Avg	195.25	159.56	
14640.00								No Emission
14640.00								Detected
17080.00								No Emission
17080.00								Detected
19520.00								No Emission
19520.00								Detected
21960.00								No Emission
21960.00								Detected
24400.00								No Emission
24400.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Middle Channel - Y-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	48.33	V	73.97	-25.64	Peak	326.50	127.32	
4880.00	36.90	V	53.97	-17.07	Avg	326.50	127.32	
7320.00	43.91	V	73.97	-30.06	Peak	350.25	127.50	
7320.00	32.24	V	53.97	-21.73	Avg	350.25	127.50	
9760.00								Not in Restricted Band
9760.00								
12200.00	47.81	V	73.97	-26.16	Peak	159.25	127.38	
12200.00	35.84	V	53.97	-18.13	Avg	159.26	127.38	
14640.00								No Emission
14640.00								Detected
17080.00								No Emission
17080.00								Detected
19520.00								No Emission
19520.00								Detected
21960.00								No Emission
21960.00								Detected
24400.00								No Emission
24400.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Middle Channel - Z-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	47.82	V	73.97	-26.15	Peak	310.25	111.50	
4880.00	36.19	V	53.97	-17.78	Avg	310.25	111.50	
7320.00	45.34	V	73.97	-28.63	Peak	303.25	175.26	
7320.00	33.06	V	53.97	-20.91	Avg	303.25	175.26	
9760.00								Not in Restricted Band
9760.00								
12200.00	47.37	V	73.97	-26.60	Peak	258.50	191.44	
12200.00	35.61	V	53.97	-18.36	Avg	258.50	191.44	
14640.00								No Emission
14640.00								Detected
17080.00								No Emission
17080.00								Detected
19520.00								No Emission
19520.00								Detected
21960.00								No Emission
21960.00								Detected
24400.00								No Emission
24400.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Middle Channel - X-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	46.71	H	73.97	-27.26	Peak	8.00	111.02	
4880.00	34.78	H	53.97	-19.19	Avg	8.00	111.02	
7320.00	48.39	H	73.97	-25.58	Peak	343.25	111.02	
7320.00	36.45	H	53.97	-17.52	Avg	343.25	111.02	
9760.00								Not in Restricted Band
9760.00								
12200.00	47.81	H	73.97	-26.16	Peak	29.25	223.32	
12200.00	35.87	H	53.97	-18.10	Avg	29.25	223.32	
14640.00								No Emission
14640.00								Detected
17080.00								No Emission
17080.00								Detected
19520.00								No Emission
19520.00								Detected
21960.00								No Emission
21960.00								Detected
24400.00								No Emission
24400.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Middle Channel - Y-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	47.92	H	73.97	-26.05	Peak	160.50	174.85	
4880.00	36.24	H	53.97	-17.73	Avg	160.50	174.85	
7320.00	48.39	H	73.97	-25.58	Peak	172.25	175.14	
7320.00	35.44	H	53.97	-18.53	Avg	172.25	175.14	
9760.00								Not in Restricted Band
9760.00								
12200.00	47.58	H	73.97	-26.39	Peak	56.75	175.38	
12200.00	35.81	H	53.97	-18.16	Avg	56.75	175.38	
14640.00								No Emission
14640.00								Detected
17080.00								No Emission
17080.00								Detected
19520.00								No Emission
19520.00								Detected
21960.00								No Emission
21960.00								Detected
24400.00								No Emission
24400.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Middle Channel - Z-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	48.97	H	73.97	-25.00	Peak	163.00	143.44	
4880.00	37.64	H	53.97	-16.33	Avg	163.00	143.44	
7320.00	50.52	H	73.97	-23.45	Peak	160.75	111.32	
7320.00	37.60	H	53.97	-16.37	Avg	160.75	111.32	
9760.00								Not in Restricted Band
9760.00								
12200.00	47.68	H	73.97	-26.29	Peak	264.25	143.14	
12200.00	35.95	H	53.97	-18.02	Avg	264.25	143.14	
14640.00								No Emission
14640.00								Detected
17080.00								No Emission
17080.00								Detected
19520.00								No Emission
19520.00								Detected
21960.00								No Emission
21960.00								Detected
24400.00								No Emission
24400.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics High Channel - X-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	43.99	V	73.97	-29.98	Peak	306.75	127.50	
4960.00	32.08	V	53.97	-21.89	Avg	306.75	127.50	
7440.00	46.62	V	73.97	-27.35	Peak	315.75	249.01	
7440.00	33.58	V	53.97	-20.39	Avg	315.75	249.01	
9920.00								Not in Restricted Band
9920.00								
12400.00	48.17	V	73.97	-25.80	Peak	274.50	159.38	
12400.00	36.02	V	73.97	-37.95	Peak	274.50	159.38	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics High Channel - Y-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	44.11	V	73.97	-29.86	Peak	314.75	111.56	
4960.00	32.09	V	53.97	-21.88	Avg	314.75	111.56	
7440.00	46.25	V	73.97	-27.72	Peak	312.25	127.50	
7440.00	33.34	V	53.97	-20.63	Avg	312.25	127.50	
9920.00								Not in Restricted Band
9920.00								
12400.00	47.55	V	73.97	-26.42	Peak	164.50	223.50	
12400.00	35.95	V	73.97	-38.02	Peak	164.50	223.50	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics High Channel - Z-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	41.45	V	73.97	-32.52	Peak	84.50	223.74	
4960.00	28.29	V	53.97	-25.68	Avg	84.50	223.74	
7440.00	46.00	V	73.97	-27.97	Peak	187.00	143.92	
7440.00	33.20	V	53.97	-20.77	Avg	187.00	143.92	
9920.00								Not in Restricted Band
9920.00								
12400.00	47.58	V	73.97	-26.39	Peak	105.75	239.62	
12400.00	35.94	V	73.97	-38.03	Peak	105.75	239.62	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics High Channel - X-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	46.09	H	73.97	-27.88	Peak	158.50	175.08	
4960.00	33.20	H	53.97	-20.77	Avg	158.50	175.08	
7440.00	48.72	H	73.97	-25.25	Peak	158.00	111.26	
7440.00	35.90	H	53.97	-18.07	Avg	158.00	111.26	
9920.00								Not in Restricted Band
9920.00								
12400.00	48.02	H	73.97	-25.95	Peak	294.75	159.14	
12400.00	35.90	H	73.97	-38.07	Peak	294.75	159.14	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics High Channel - Y-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	44.73	H	73.97	-29.24	Peak	339.75	111.74	
4960.00	30.33	H	53.97	-23.64	Avg	339.75	111.74	
7440.00	46.82	H	73.97	-27.15	Peak	14.25	111.32	
7440.00	33.98	H	53.97	-19.99	Avg	14.25	111.32	
9920.00								Not in Restricted Band
9920.00								
12400.00	48.50	H	73.97	-25.47	Peak	203.00	127.86	
12400.00	35.81	H	73.97	-38.16	Peak	203.00	127.86	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics High Channel - Z-Axis
USB Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	45.03	H	73.97	-28.94	Peak	12.50	143.50	
4960.00	32.53	H	53.97	-21.44	Avg	12.50	143.50	
7440.00	46.23	H	73.97	-27.74	Peak	13.50	111.50	
7440.00	33.71	H	53.97	-20.26	Avg	13.50	111.50	
9920.00								Not in Restricted Band
9920.00								
12400.00	47.88	H	73.97	-26.09	Peak	150.50	111.50	
12400.00	35.84	H	73.97	-38.13	Peak	150.50	111.50	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Low Channel - X-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	40.30	V	73.97	-33.67	Peak	204.00	111.20	
4804.00	28.25	V	53.97	-25.72	Avg	204.00	111.20	
7206.00								Not in Restricted Band
7206.00								
9608.00								Not in Restricted Band
9608.00								
12010.00	47.45	V	73.97	-26.52	Peak	9.75	223.26	
12010.00	35.54	V	53.97	-18.43	Avg	9.75	223.26	
14412.00								No Emission Detected
14412.00								
16814.00								No Emission Detected
16814.00								
19216.00								No Emission Detected
19216.00								
21618.00								No Emission Detected
21618.00								
24020.00								No Emission Detected
24020.00								

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Low Channel - Y-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	50.72	V	73.97	-23.25	Peak	168.25	111.08	
4804.00	38.70	V	53.97	-15.27	Avg	168.25	111.08	
7206.00								Not in Restricted Band
7206.00								
9608.00								Not in Restricted Band
9608.00								
12010.00	47.40	V	73.97	-26.57	Peak	333.50	207.08	
12010.00	35.50	V	53.97	-18.47	Avg	333.50	207.08	
14412.00								No Emission Detected
14412.00								
16814.00								No Emission Detected
16814.00								
19216.00								No Emission Detected
19216.00								
21618.00								No Emission Detected
21618.00								
24020.00								No Emission Detected
24020.00								

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Low Channel - Z-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	48.80	V	73.97	-25.17	Peak	131.75	175.08	
4804.00	36.72	V	53.97	-17.25	Avg	131.75	175.08	
7206.00								Not in Restricted Band
7206.00								
9608.00								Not in Restricted Band
9608.00								
12010.00	48.70	V	73.97	-25.27	Peak	276.25	159.32	
12010.00	35.61	V	53.97	-18.36	Avg	276.25	159.32	
14412.00								No Emission Detected
14412.00								
16814.00								No Emission Detected
16814.00								
19216.00								No Emission Detected
19216.00								
21618.00								No Emission Detected
21618.00								
24020.00								No Emission Detected
24020.00								

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Low Channel - X-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	45.36	H	73.97	-28.61	Peak	355.00	126.85	
4804.00	32.95	H	53.97	-21.02	Avg	355.00	126.85	
7206.00								Not in Restricted Band
7206.00								
9608.00								Not in Restricted Band
9608.00								
12010.00	48.39	H	73.97	-25.58	Peak	324.25	249.07	
12010.00	35.47	H	53.97	-18.50	Avg	324.25	249.07	
14412.00								No Emission Detected
14412.00								
16814.00								No Emission Detected
16814.00								
19216.00								No Emission Detected
19216.00								
21618.00								No Emission Detected
21618.00								
24020.00								No Emission Detected
24020.00								

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Low Channel - Y-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	44.27	H	73.97	-29.70	Peak	134.75	206.79	
4804.00	32.71	H	53.97	-21.26	Avg	134.75	206.79	
7206.00								Not in Restricted Band
7206.00								
9608.00								Not in Restricted Band
9608.00								
12010.00	47.21	H	73.97	-26.76	Peak	84.25	143.56	
12010.00	35.31	H	53.97	-18.66	Avg	84.25	143.56	
14412.00								No Emission Detected
14412.00								
16814.00								No Emission Detected
16814.00								
19216.00								No Emission Detected
19216.00								
21618.00								No Emission Detected
21618.00								
24020.00								No Emission Detected
24020.00								

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Low Channel - Z-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4804.00	47.41	H	73.97	-26.56	Peak	156.00	111.26	
4804.00	35.86	H	53.97	-18.11	Avg	156.00	111.26	
7206.00								Not in Restricted Band
7206.00								
9608.00								Not in Restricted Band
9608.00								
12010.00	47.29	H	73.97	-26.68	Peak	59.00	223.26	
12010.00	35.39	H	53.97	-18.58	Avg	59.00	223.26	
14412.00								No Emission Detected
14412.00								
16814.00								No Emission Detected
16814.00								
19216.00								No Emission Detected
19216.00								
21618.00								No Emission Detected
21618.00								
24020.00								No Emission Detected
24020.00								

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Middle Channel - X-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	43.91	V	73.97	-30.06	Peak	166.75	249.25	
4880.00	31.10	V	53.97	-22.87	Avg	166.75	249.25	
7320.00	44.86	V	73.97	-29.11	Peak	259.75	160.40	
7320.00	32.54	V	53.97	-21.43	Avg	259.75	160.40	
9760.00								Not in Restricted Band
9760.00								
12200.00	47.30	V	73.97	-26.67	Peak	232.75	207.44	
12200.00	35.66	V	53.97	-18.31	Avg	232.75	207.44	
14640.00								No Emission
14640.00								Detected
17080.00								No Emission
17080.00								Detected
19520.00								No Emission
19520.00								Detected
21960.00								No Emission
21960.00								Detected
24400.00								No Emission
24400.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Middle Channel - Y-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	48.10	V	73.97	-25.87	Peak	333.00	111.32	
4880.00	36.96	V	53.97	-17.01	Avg	333.00	111.32	
7320.00	49.88	V	73.97	-24.09	Peak	27.50	127.62	
7320.00	37.08	V	53.97	-16.89	Avg	27.50	127.62	
9760.00								Not in Restricted Band
9760.00								
12200.00	47.30	V	73.97	-26.67	Peak	91.75	249.01	
12200.00	35.67	V	53.97	-18.30	Avg	91.75	249.01	
14640.00								No Emission
14640.00								Detected
17080.00								No Emission
17080.00								Detected
19520.00								No Emission
19520.00								Detected
21960.00								No Emission
21960.00								Detected
24400.00								No Emission
24400.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Middle Channel - Z-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	47.37	V	73.97	-26.60	Peak	134.75	111.26	
4880.00	35.80	V	53.97	-18.17	Avg	134.75	111.26	
7320.00	45.82	V	73.97	-28.15	Peak	124.50	111.62	
7320.00	32.60	V	53.97	-21.37	Avg	124.50	111.62	
9760.00								Not in Restricted Band
9760.00								
12200.00	45.26	V	73.97	-28.71	Peak	140.25	174.91	
12200.00	32.69	V	53.97	-21.28	Avg	140.25	174.91	
14640.00								No Emission
14640.00								Detected
17080.00								No Emission
17080.00								Detected
19520.00								No Emission
19520.00								Detected
21960.00								No Emission
21960.00								Detected
24400.00								No Emission
24400.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Middle Channel - X-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	47.03	H	73.97	-26.94	Peak	357.50	142.85	
4880.00	34.81	H	53.97	-19.16	Avg	357.50	142.85	
7320.00	48.78	H	73.97	-25.19	Peak	335.00	111.50	
7320.00	35.66	H	53.97	-18.31	Avg	335.00	111.50	
9760.00								Not in Restricted Band
9760.00								
12200.00	47.48	H	73.97	-26.49	Peak	24.75	143.44	
12200.00	35.54	H	53.97	-18.43	Avg	24.75	143.44	
14640.00								No Emission
14640.00								Detected
17080.00								No Emission
17080.00								Detected
19520.00								No Emission
19520.00								Detected
21960.00								No Emission
21960.00								Detected
24400.00								No Emission
24400.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Middle Channel - Y-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	46.72	H	73.97	-27.25	Peak	315.50	176.46	
4880.00	34.87	H	53.97	-19.10	Avg	315.25	176.46	
7320.00	44.93	H	73.97	-29.04	Peak	40.50	238.19	
7320.00	32.17	H	53.97	-21.80	Avg	40.50	238.19	
9760.00								Not in Restricted Band
9760.00								
12200.00	47.31	H	73.97	-26.66	Peak	359.50	207.32	
12200.00	35.47	H	53.97	-18.50	Avg	359.50	207.32	
14640.00								No Emission
14640.00								Detected
17080.00								No Emission
17080.00								Detected
19520.00								No Emission
19520.00								Detected
21960.00								No Emission
21960.00								Detected
24400.00								No Emission
24400.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics Middle Channel - Z-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4880.00	47.97	H	73.97	-26.00	Peak	330.75	159.02	
4880.00	34.31	H	53.97	-19.66	Avg	330.75	159.02	
7320.00	49.27	H	73.97	-24.70	Peak	335.25	175.02	
7320.00	36.28	H	53.97	-17.69	Avg	335.25	175.02	
9760.00								Not in Restricted Band
9760.00								
12200.00	47.91	H	73.97	-26.06	Peak	51.50	141.89	
12200.00	35.58	H	53.97	-18.39	Avg	51.50	141.89	
14640.00								No Emission
14640.00								Detected
17080.00								No Emission
17080.00								Detected
19520.00								No Emission
19520.00								Detected
21960.00								No Emission
21960.00								Detected
24400.00								No Emission
24400.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics High Channel - X-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	41.57	V	73.97	-32.40	Peak	339.75	249.07	
4960.00	27.84	V	53.97	-26.13	Avg	339.75	249.07	
7440.00	45.80	V	73.97	-28.17	Peak	86.00	127.08	
7440.00	32.65	V	53.97	-21.32	Avg	86.00	127.08	
9920.00								Not in Restricted Band
9920.00								
12400.00	48.00	V	73.97	-25.97	Peak	149.75	143.38	
12400.00	35.92	V	73.97	-38.05	Peak	149.75	143.38	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics High Channel - Y-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	45.10	V	73.97	-28.87	Peak	311.75	159.50	
4960.00	32.05	V	53.97	-21.92	Avg	311.75	159.50	
7440.00	48.78	V	73.97	-25.19	Peak	35.12	274.75	
7440.00	35.12	V	53.97	-18.85	Avg	35.12	274.75	
9920.00								Not in Restricted Band
9920.00								
12400.00	47.59	V	73.97	-26.38	Peak	136.00	223.08	
12400.00	35.91	V	73.97	-38.06	Peak	136.00	223.08	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics High Channel - Z-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	44.95	V	73.97	-29.02	Peak	215.50	111.20	
4960.00	30.75	V	53.97	-23.22	Avg	215.50	111.20	
7440.00	45.10	V	73.97	-28.87	Peak	228.00	191.26	
7440.00	32.73	V	53.97	-21.24	Avg	228.00	191.26	
9920.00								Not in Restricted Band
9920.00								
12400.00	48.42	V	73.97	-25.55	Peak	306.50	175.26	
12400.00	35.89	V	73.97	-38.08	Peak	306.50	175.26	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics High Channel - X-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	45.19	H	73.97	-28.78	Peak	275.00	159.38	
4960.00	31.31	H	53.97	-22.66	Avg	275.00	159.38	
7440.00	47.17	H	73.97	-26.80	Peak	265.50	143.44	
7440.00	34.09	H	53.97	-19.88	Avg	265.50	143.44	
9920.00								Not in Restricted Band
9920.00								
12400.00	47.62	H	73.97	-26.35	Peak	22.00	143.20	
12400.00	35.92	H	53.97	-18.05	Avg	22.00	143.20	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics High Channel - Y-Axis
Battery Mode**

Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	43.44	H	73.97	-30.53	Peak	257.50	175.38	
4960.00	29.04	H	53.97	-24.93	Avg	257.50	175.38	
7440.00	45.54	H	73.97	-28.43	Peak	273.75	207.26	
7440.00	32.11	H	53.97	-21.86	Avg	273.75	207.26	
9920.00								Not in Restricted Band
9920.00								
12400.00	47.61	H	73.97	-26.36	Peak	304.00	207.08	
12400.00	35.86	H	53.97	-18.11	Avg	304.00	207.08	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

FCC 15.247

AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050

Date: 05/18/2023
Lab: D
Tested By: Kyle Fujimoto

**Harmonics High Channel - Z-Axis
Battery Mode**

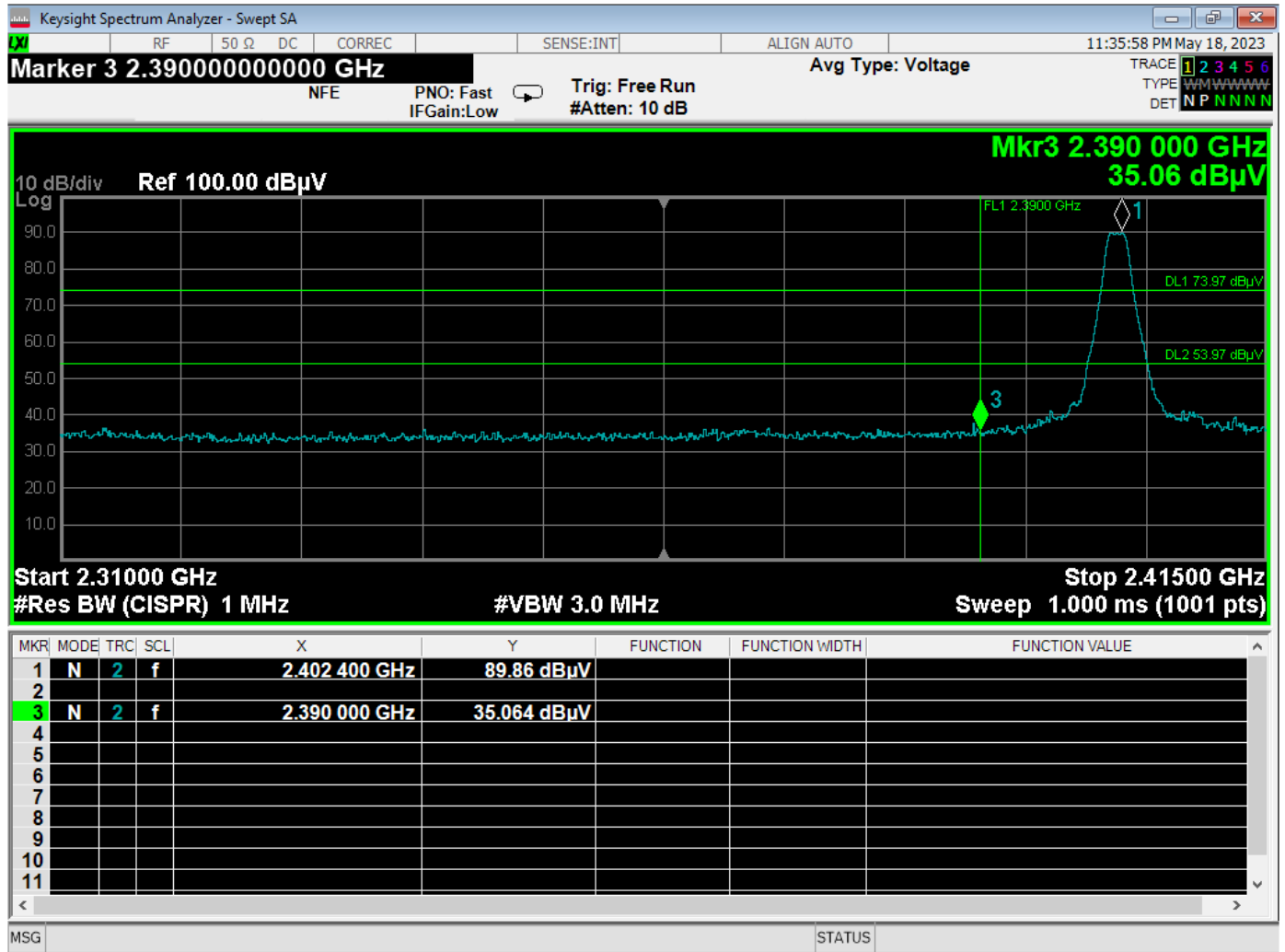
Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
4960.00	45.17	H	73.97	-28.80	Peak	262.75	127.56	
4960.00	32.08	H	53.97	-21.89	Avg	262.75	127.56	
7440.00	47.06	H	73.97	-26.91	Peak	256.25	159.38	
7440.00	33.67	H	53.97	-20.30	Avg	256.25	159.38	
9920.00								Not in Restricted Band
9920.00								
12400.00	47.72	H	73.97	-26.25	Peak	201.25	111.44	
12400.00	35.89	H	53.97	-18.08	Avg	201.25	111.44	
14880.00								No Emission
14880.00								Detected
17360.00								No Emission
17360.00								Detected
19840.00								No Emission
19840.00								Detected
22320.00								No Emission
22320.00								Detected
24800.00								No Emission
24800.00								Detected

BAND EDGES

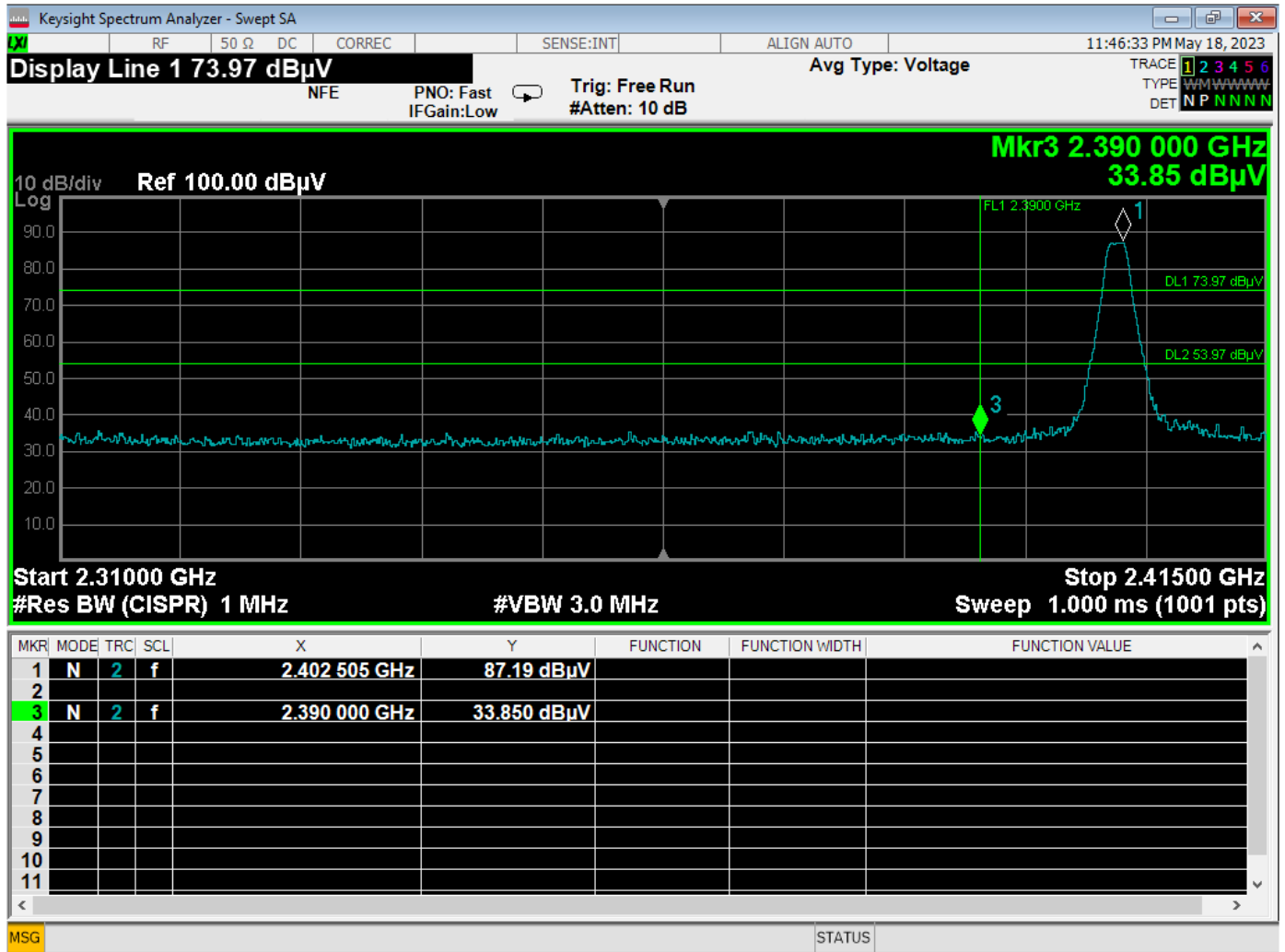
DATA SHEETS

FCC 15.247AVID Identification Systems, Inc.
RFID Reader
Model: AVID1050Date: 05/20/2023
Lab: D
Tested By: Kyle Fujimoto**Band Edges - Low Channel
Battery Mode**

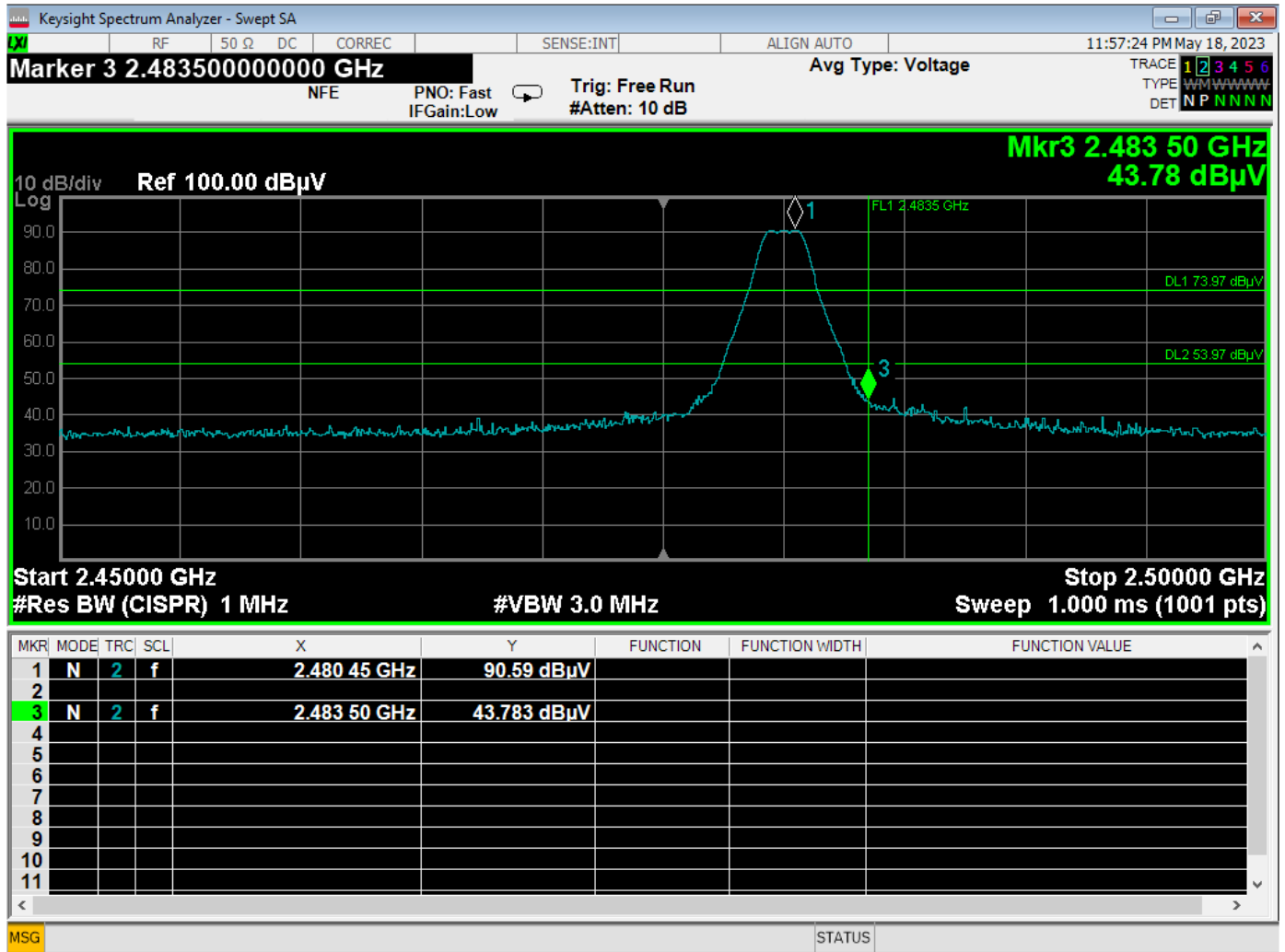
Freq. (MHz)	Level (dBuV/m)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Table Angle (deg)	Ant. Height (cm)	Comments
2402.00	89.86	H	--	--	Peak	231.75	114.73	Fundamental – X-Axis
2390.00	35.06	H	53.97	-18.91	Peak	231.75	114.73	Band Edge – X-Axis
2402.00	87.19	V	---	--	Peak	268.25	214.91	Fundamental – Y-Axis
2390.00	33.85	V	53.97	-20.12	Peak	268.25	214.91	Band Edge – Y-Axis



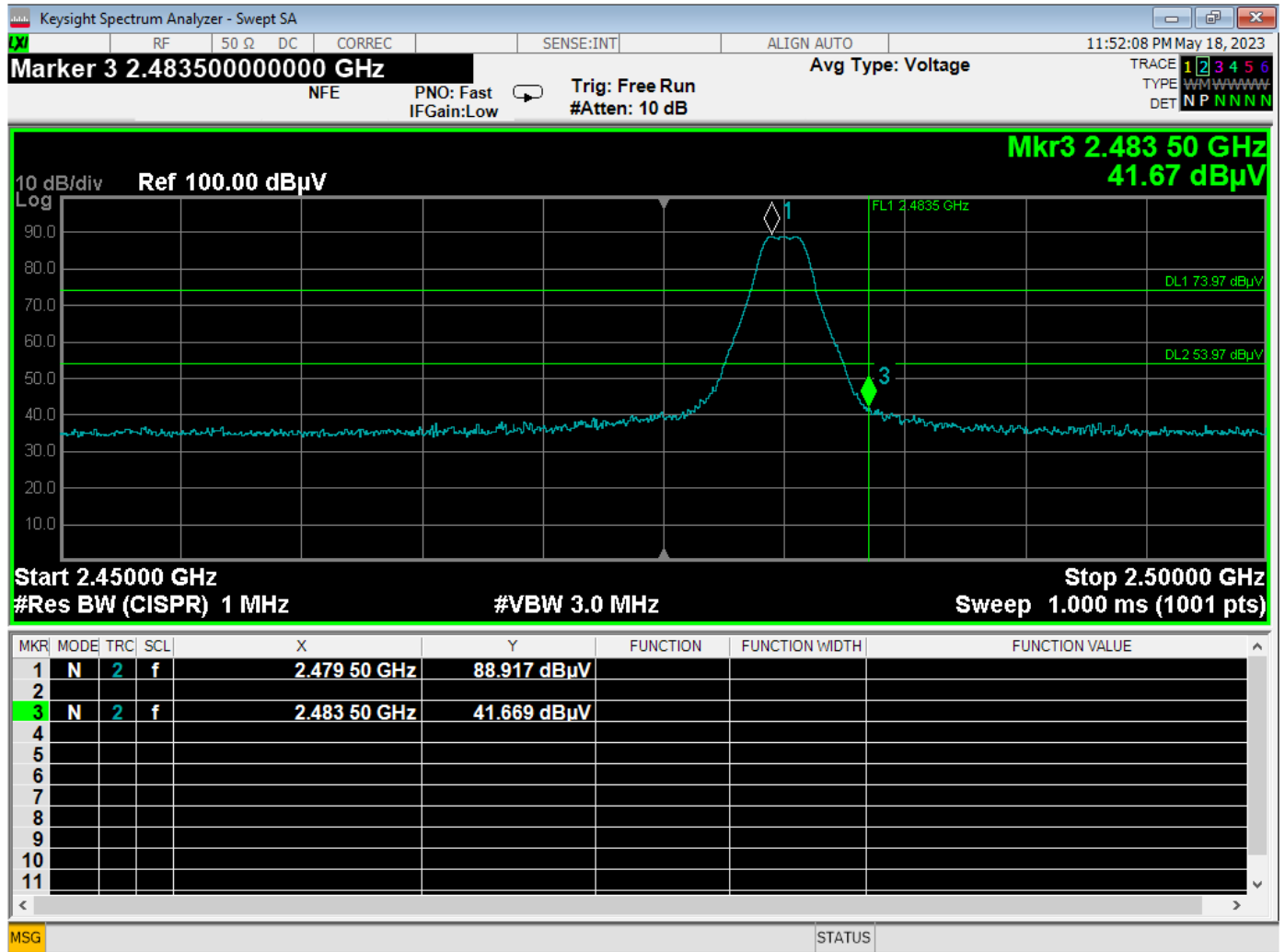
Band Edge – Low Channel – Horizontal Polarization – Battery Mode



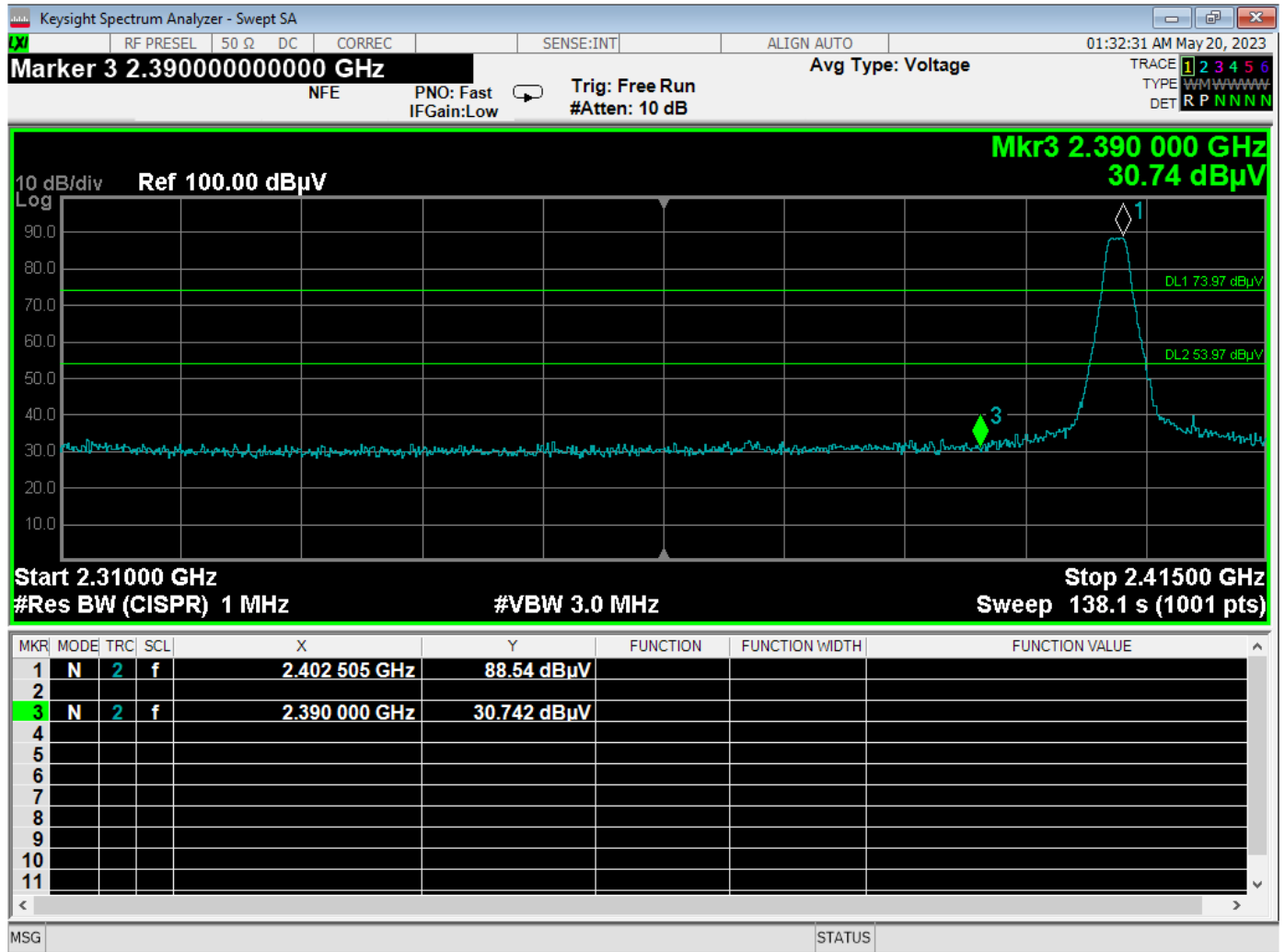
Band Edge – Low Channel – Vertical Polarization – Battery Mode



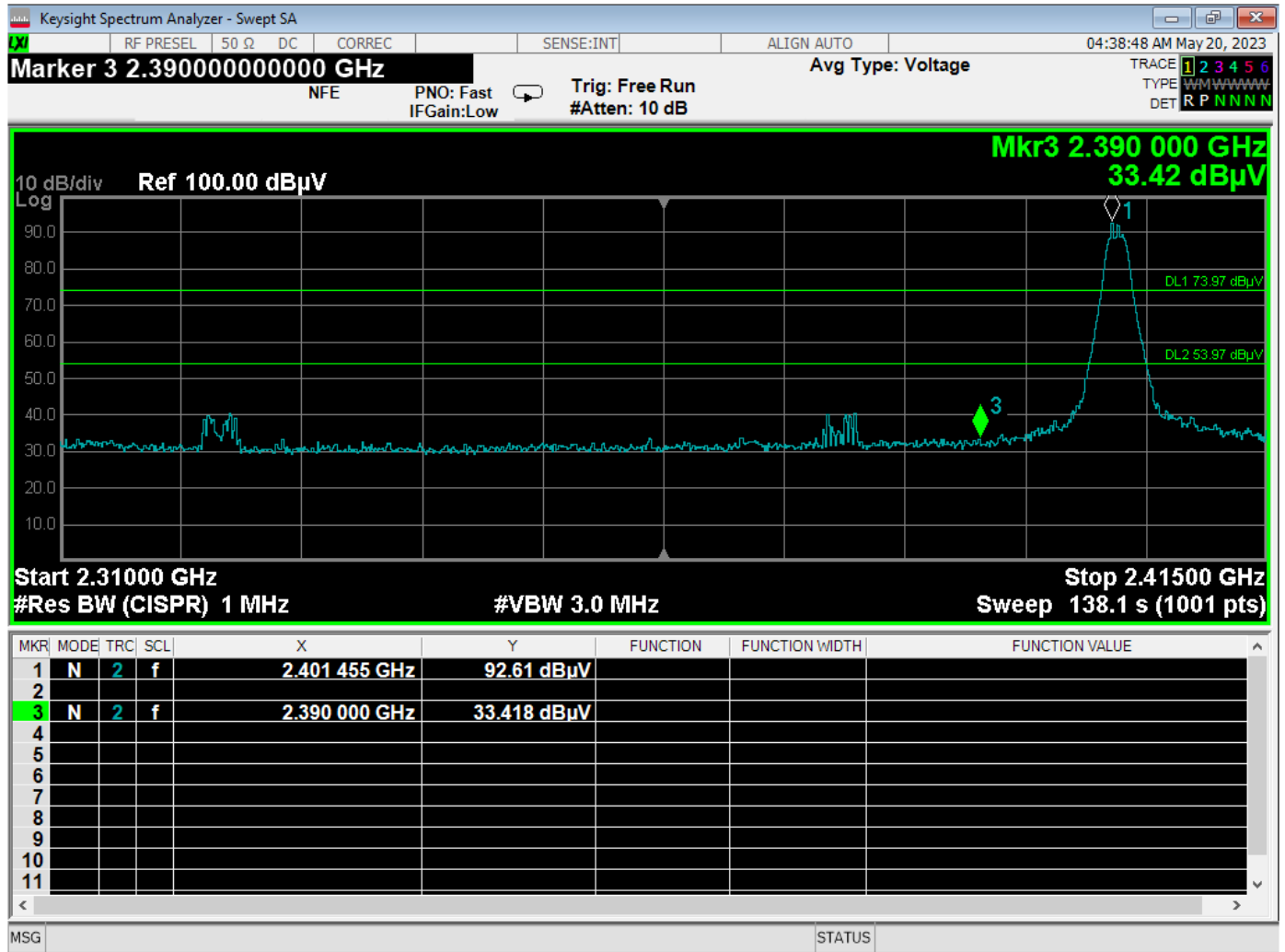
Band Edge – High Channel – Horizontal Polarization – Battery Mode



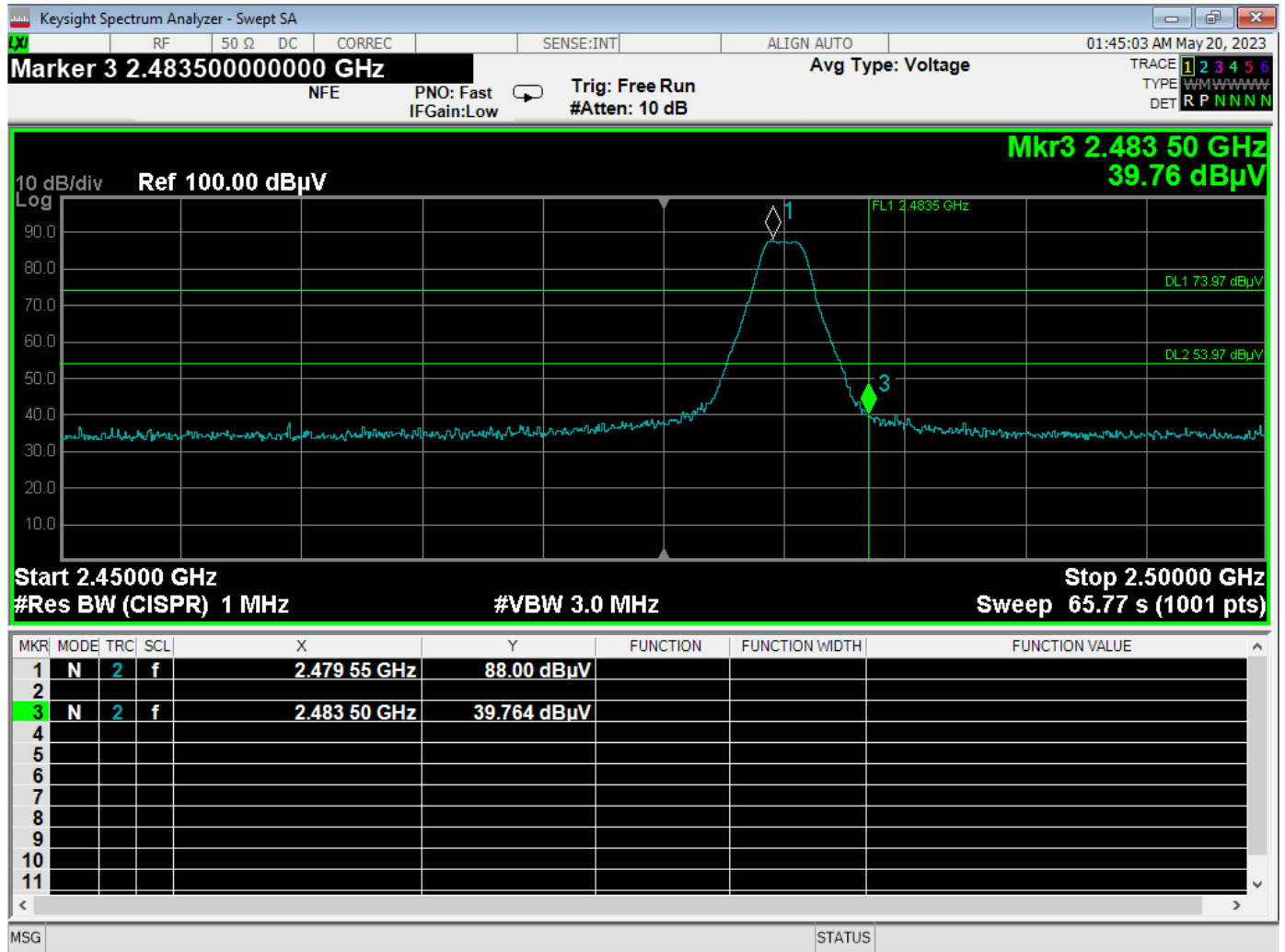
Band Edge – High Channel – Vertical Polarization – Battery Mode



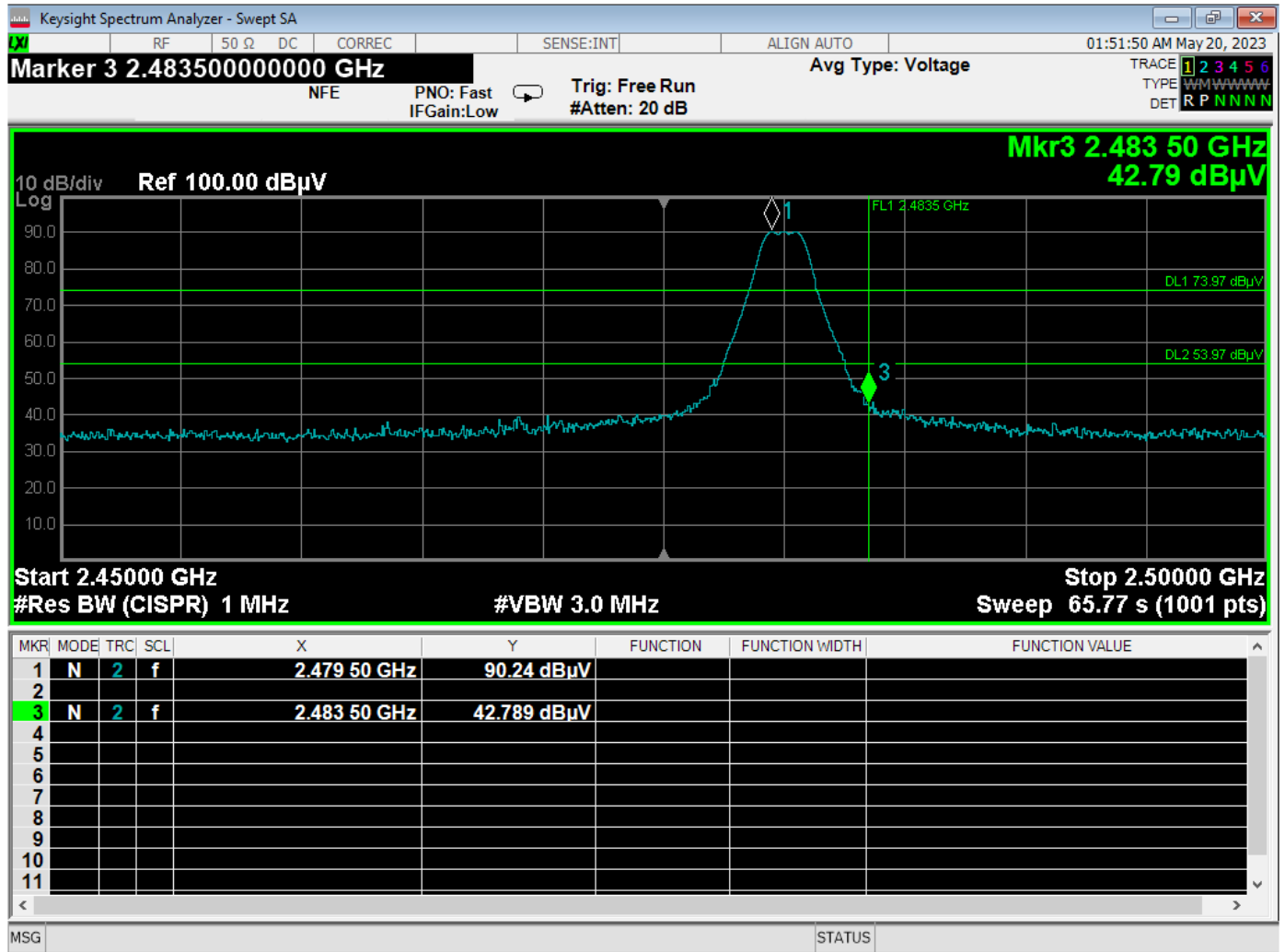
Band Edge – Low Channel – Horizontal Polarization – USB Mode



Band Edge – Low Channel – Vertical Polarization – USB Mode



Band Edge – High Channel – Horizontal Polarization – USB Mode



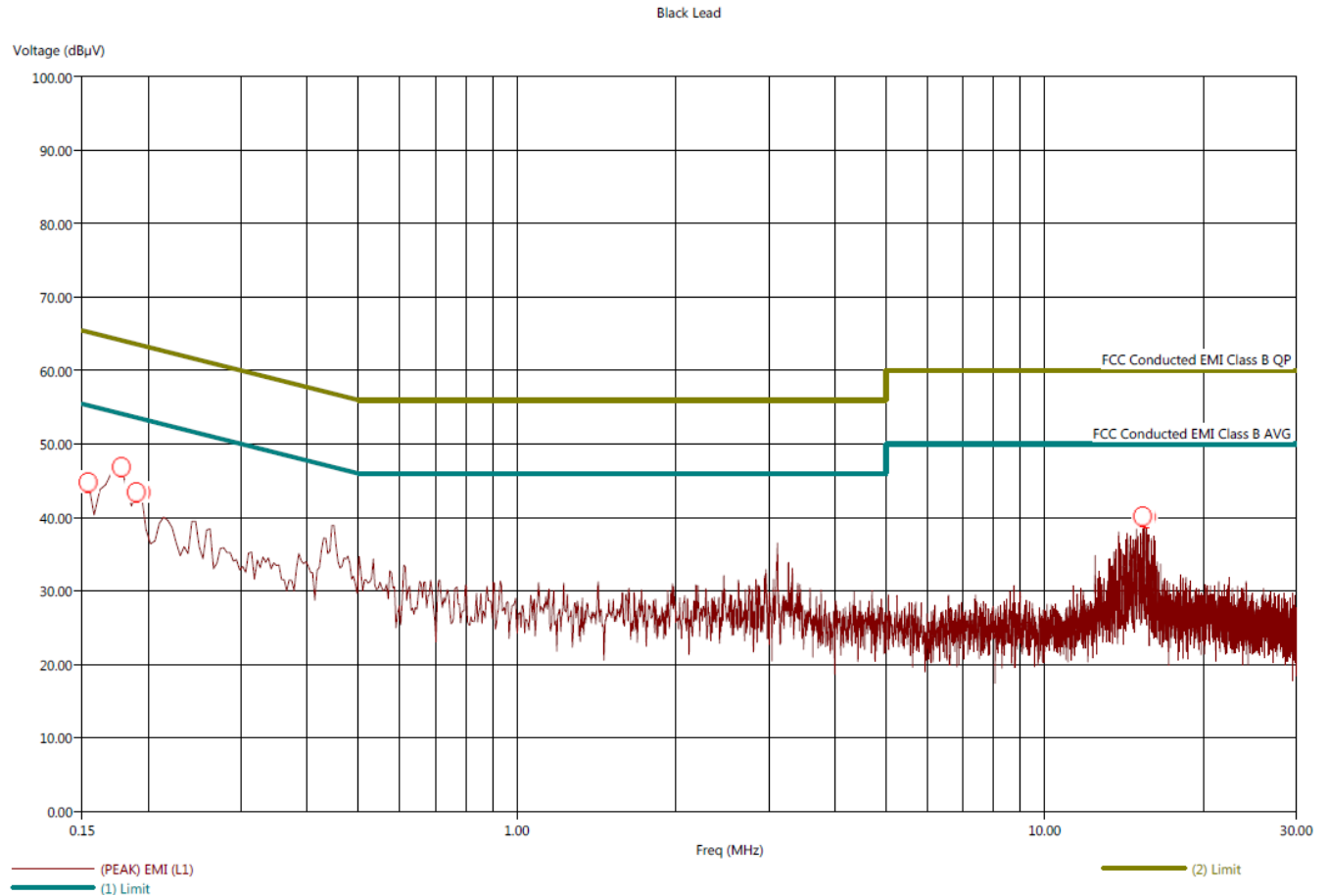
Band Edge – High Channel – Vertical Polarization – USB Mode

CONDCUTED EMISSIONS

DATA SHEETS

Title: FCC Class B - Black Lead
File: 1 - Pre-Scan - BL - USB Mode - CW - BLE - 05-22-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in CW Mode and BLE at 2402 MHz
Company: Avid Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FFC
USB Mode

5/22/2023 8:43:16 AM
Sequence: Preliminary Scan



Title: FCC Class B - Black Lead

File: 1 - Final Scan - BL - USB Mode - CW - BLE - 05-22-2023.set

Operator: Kyle Fujimoto

EUT Type: RFID Reader

EUT Condition: The EUT is continuously transmitting at 134.2 kHz in CW Mode and BLE at 2402 MHz

Company: Avid Identification Systems, Inc.

Model: AVID1050

S/N: E24E18184FFC

USB Mode

5/22/2023 8:44:55 AM

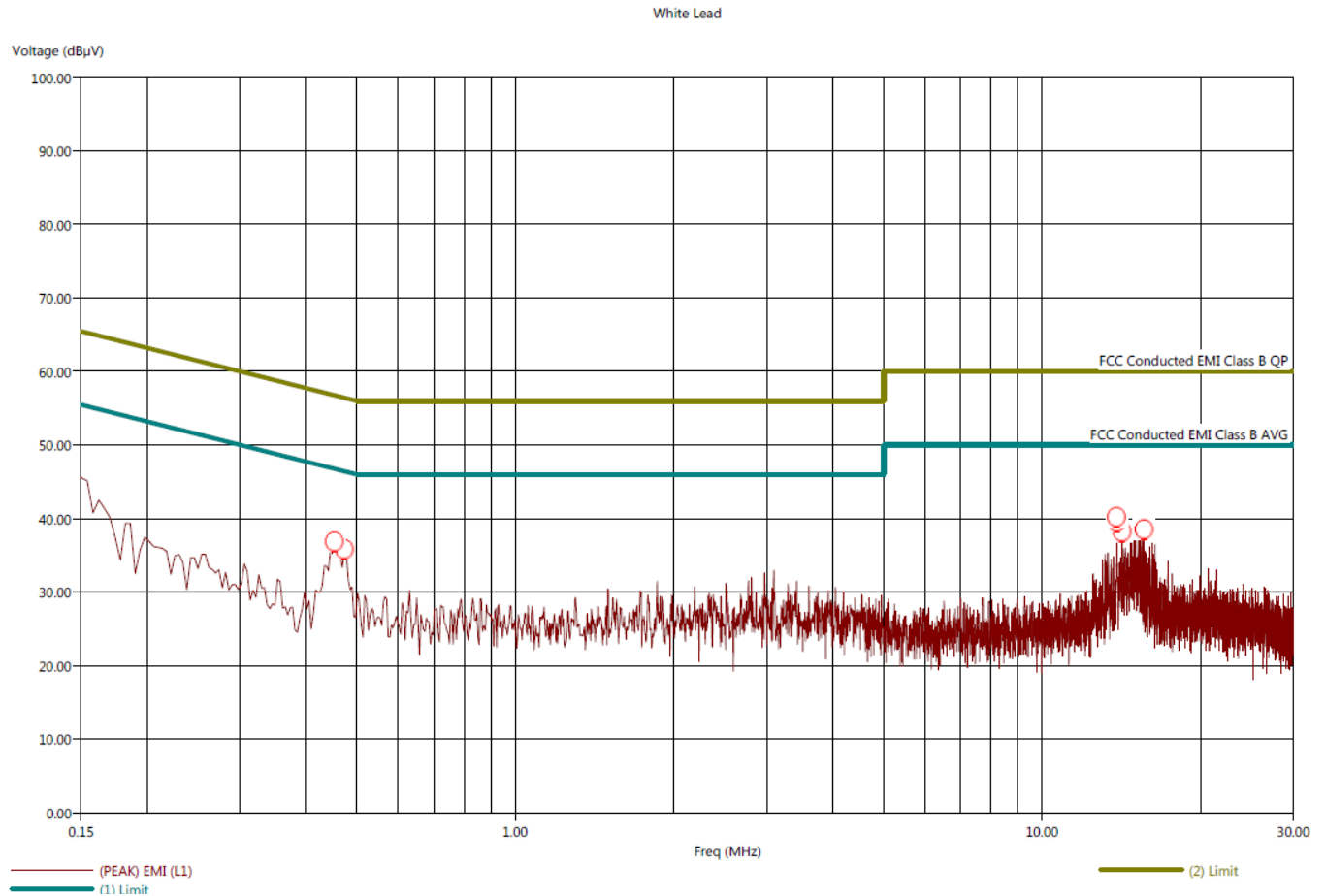
Sequence: Final Measurements

Black Lead									
Freq (MHz)	(PEAK) EMI (dBµV)	(AVG) EMI (dBµV)	(PEAK) Margin (AVG) (dB)	(AVG) Margin (AVG) (dB)	(AVG) Limit (dBµV)	Cable (dB)	Transducer (dB)	Filter (dB)	
0.154	50.69	40.22	-4.56	-15.03	55.25	0.01	0.19	10.10	
0.178	51.98	35.87	-2.27	-18.38	54.24	0.01	0.18	10.10	
0.190	49.92	35.28	-3.79	-18.43	53.71	0.01	0.17	10.10	
0.194	52.89	36.53	-0.92	-17.28	53.81	0.01	0.17	10.10	
15.342	45.56	24.44	-4.44	-25.56	50.00	0.53	0.48	10.10	
15.582	39.41	25.17	-10.59	-24.83	50.00	0.54	0.48	10.10	



Title: FCC Class B - White Lead
File: 1 - Pre-Scan - WL - USB Mode - CW - BLE - 05-22-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in CW Mode and BLE at 2402 MHz
Company: Avid Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FFC
USB Mode

5/22/2023 8:47:39 AM
Sequence: Preliminary Scan



Title: FCC Class B - White Lead
File: 1 - Final Scan - WL - USB Mode - CW - BLE - 05-22-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in CW Mode and BLE at 2402 MHz
Company: Avid Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FFC
USB Mode

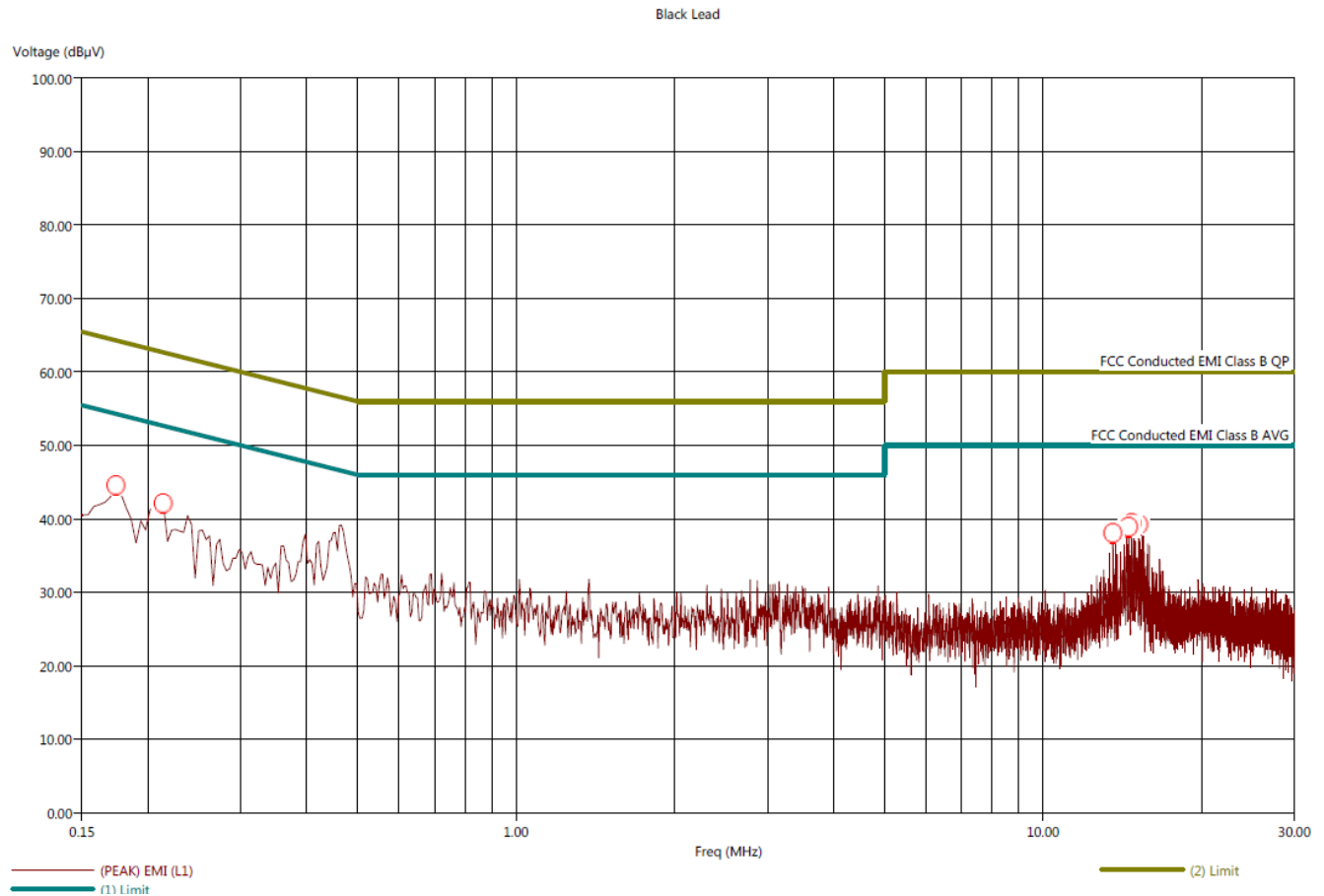
5/22/2023 8:49:14 AM
Sequence: Final Measurements

White Lead									
Freq (MHz)	(PEAK) EMI (dBµV)	(AVG) EMI (dBµV)	(PEAK) Margin (AVG) (dB)	(AVG) Margin (AVG) (dB)	(AVG) Limit (dBµV)	Cable (dB)	Transducer (dB)	Filter (dB)	
0.454	38.40	29.35	-8.51	-17.56	46.91	0.01	0.13	10.10	
0.474	37.19	29.11	-9.28	-17.36	46.47	0.01	0.13	10.10	
13.846	40.67	23.42	-9.33	-26.58	50.00	0.50	0.58	10.10	
13.866	41.89	23.38	-8.11	-26.62	50.00	0.50	0.59	10.10	
14.190	42.15	25.27	-7.85	-24.73	50.00	0.51	0.60	10.10	
15.618	44.76	24.89	-5.24	-25.11	50.00	0.54	0.64	10.10	



Title: FCC Class B - Black Lead
File: 2 - Pre-Scan - BL - USB Mode - MOD - BLE - 05-22-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in Modulated Mode and BLE at 2402 MHz
Company: Avid Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FFC
USB Mode

5/22/2023 8:52:00 AM
Sequence: Preliminary Scan



Title: FCC Class B - Black Lead
File: 2 - Final Scan - BL - USB Mode - MOD - BLE - 05-22-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in Modulated Mode and BLE at 2402 MHz
Company: Avid Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FFC
USB Mode

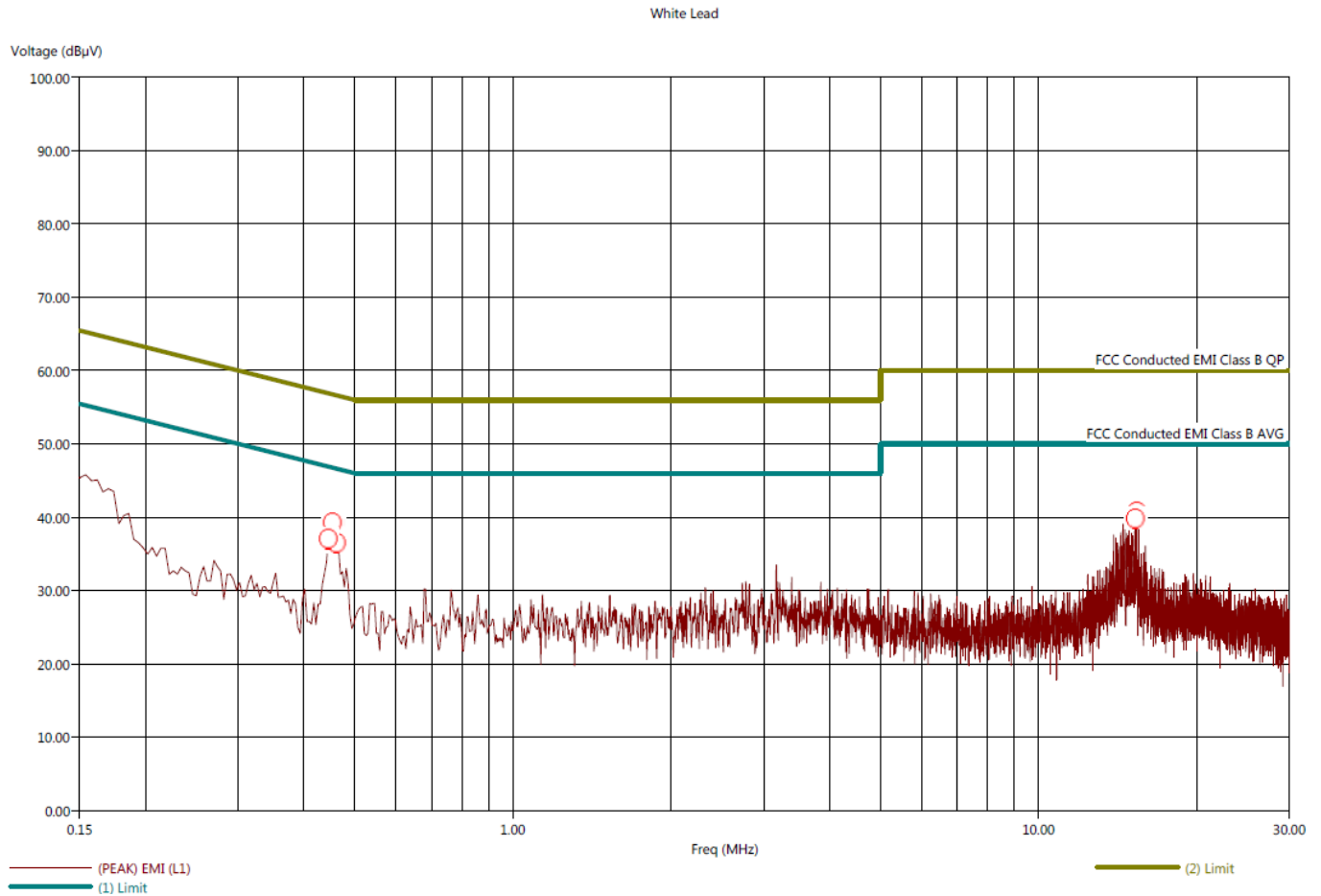
5/22/2023 9:02:17 AM
Sequence: Final Measurements

Black Lead									
Freq (MHz)	(PEAK) EMI (dBµV)	(AVG) EMI (dBµV)	(PEAK) Margin (dB)	(AVG) Margin (dB)	(AVG) Limit (dBµV)	Cable (dB)	Transducer (dB)	Filter (dB)	
0.174	49.02	37.50	-5.42	-16.94	54.43	0.01	0.18	10.10	
0.214	43.05	32.24	-9.48	-20.29	52.53	0.01	0.16	10.10	
13.570	38.45	20.38	-11.55	-29.62	50.00	0.49	0.44	10.10	
14.534	43.25	24.24	-6.75	-25.76	50.00	0.51	0.46	10.10	
14.722	40.63	23.60	-9.37	-26.40	50.00	0.52	0.46	10.10	
15.198	41.56	24.45	-8.44	-25.55	50.00	0.53	0.48	10.10	



Title: FCC Class B - White Lead
File: 2 - Pre-Scan - WL - USB Mode - MOD - BLE - 05-22-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in Modulated Mode and BLE at 2402 MHz
Company: Avid Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FFC
USB Mode

5/22/2023 9:07:04 AM
Sequence: Preliminary Scan



Title: FCC Class B - White Lead
File: 2 - Final Scan - WL - USB Mode - MOD - BLE - 05-22-2023.set
Operator: Kyle Fujimoto
EUT Type: RFID Reader
EUT Condition: The EUT is continuously transmitting at 134.2 kHz in Modulated Mode and BLE at 2402 MHz
Company: Avid Identification Systems, Inc.
Model: AVID1050
S/N: E24E18184FFC
USB Mode

5/22/2023 9:08:43 AM
Sequence: Final Measurements

White Lead									
Freq (MHz)	(PEAK) EMI (dBμV)	(AVG) EMI (dBμV)	(PEAK) Marqin (AVG) (dB)	(AVG) Marqin (AVG) (dB)	(AVG) Limit (dBμV)	Cable (dB)	Transducer (dB)	Filter (dB)	
0.446	38.71	29.48	-8.09	-17.32	46.80	0.01	0.13	10.10	
0.454	38.76	31.02	-7.87	-15.61	46.63	0.01	0.13	10.10	
0.458	39.54	30.41	-7.14	-16.27	46.68	0.01	0.13	10.10	
0.462	39.71	30.89	-6.98	-15.80	46.69	0.01	0.13	10.10	
15.282	40.09	25.61	-9.91	-24.39	50.00	0.53	0.63	10.10	
15.382	45.54	24.63	-4.46	-25.37	50.00	0.54	0.63	10.10	

