



*FCC PART 15, SUBPART B and C
TEST REPORT*

for

INTELISOCKET WITH RF MODULE
MODELS: IS-201 and IS-204 (HOST DEVICES)

Prepared for

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DATE: MARCH 26, 2015

	REPORT BODY	APPENDICES					TOTAL
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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: InteliSocket with RF Module
Models: IS-201 and IS-204 (Host Devices)
S/N: N/A

Product Description: See Expository Statement.

Modifications: The EUT was not modified during the testing.

Customer: IBIS Networks
828 Fort Street Mall, Suite 600
Honolulu, Hawaii 96813

Test Dates: February 26 and 27, 2015; and March 3, 4, 5, 6, 9 and 12, 2015

Test Specifications: Emissions requirements
CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.247

Test Procedure: ANSI C63.4

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

SUMMARY OF TEST RESULTS

TEST	DESCRIPTION	RESULTS
1	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.
2	Spurious Radiated RF Emissions, 30 MHz – 1000 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 15.209
3	Spurious Radiated RF Emissions, 10 kHz – 30 MHz and 1000 MHz – 25000 MHz	The EUT complies with the Class B limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, section 15.247(d)
4	Fundamental and Emissions produced by the intentional radiator in non-restricted bands, 10 kHz – 25 GHz	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(d)
5	Emissions produced by the intentional radiator in restricted bands, 10 kHz – 25 GHz	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209, and section 15.247 (d)
6	DTS Bandwidth	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (a)(2)
7	Peak Power Output	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (b)(3)
8	RF Conducted Antenna Test	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247 (d)
9	Peak Power Spectral Density from the Intentional Radiator to the Antenna	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247 (e)

1. PURPOSE

This document is a qualification test report based on the emissions tests performed on the InteliSocket with RF Module, Models: IS-201 and IS-204 (Host Devices). The emissions measurements were performed according to the measurement procedure described in ANSI C63.4. 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, 15.209, and 15.247.



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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.

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

IBIS Networks

Michael Pfeffer CEO

Compatible Electronics Inc.

Kyle Fujimoto Test Engineer
James Ross Test Engineer
Kenneth Lee Test Technician

2.4 Date Test Sample was Received

The test sample was received on February 27, 2015.

2.5 Disposition of the Test Sample

The test sample has not been returned to IBIS Networks 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

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: 2009	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz
KDB 558074 v03r02	Guidance for performing compliance measurements on digital transmission systems (DTS) operating under 15.247.

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - Emissions

The InteliSocket with RF Module, Model: IS-201 was connected to the AC main. The EUT had a GATEWAY device hooked up to it as a load to test the outlet portion of the EUT.

The InteliSocket with RF Module Model: IS-204, was connected to the AC mains. The EUT had a desk lamp connected to it as a load to test the outlet portion of the device.

The EUT was tested for emissions at the low, middle, and high channels while in their orthogonal axis. The EUT was continuously transmitting.

The final radiated data for the EUT as was taken in the mode described above. Please see Appendix E for the data sheets.

4.1.1 Cable Construction and Termination

Cable 1

This is a 2 meter unshielded cable connecting the InteliSocket with RF Module Model: IS-204 to the desk lamp. The cable was hardwired on the desk lamp end and has a two prong power connector on the desk lamp end.

Cable 2

This is a 2 meter unshielded cable connecting the GATEWAY to its power supply. The cable was hardwired on the power supply end and has a single pin power connector on the GATEWAY end.



5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
INTELISOCKET WITH RF MODULE	IBIS NETWORKS	IS-201 and IS-204 (Host Devices)	N/A	2AECN200
GATEWAY	IBIS NETWORKS	IG-202	N/A	N/A
CLASS 2 POWER SUPPLY	V-INFINITY	EPS050100	N/A	N/A
DESK LAMP	GENERIC	N/A	N/A	N/A

5.2 Emissions Test Equipment

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CAL. CYCLE
GENERAL TEST EQUIPMENT USED IN LAB B					
Computer	Compaq	CQ5210F	CNX9360CF9	N/A	N/A
Monitor	Hewlett Packard	HPs2031a	3CQ046N3MD	N/A	N/A
EMI Receiver	Rohde & Schwarz	ESIB40	100194	December 4, 2014	1 Year
GENERAL TEST EQUIPMENT USED IN LAB D					
Computer	Hewlett Packard	p6716f	MXX1030PX0	N/A	N/A
LCD Monitor	Hewlett Packard	52031a	3CQ046N3MG	N/A	N/A
EMI Receiver, 20 Hz – 26.5 GHz	Agilent Technologies	N9038A	MY51100115	March 6, 2014	2 Year
RF RADIATED EMISSIONS TEST EQUIPMENT					
CombiLog Antenna	Com-Power	AC-220	61060	May 20, 2014	1 Year
Preamplifier	Com-Power	PA-118	551024	March 6, 2015	1 Year
Preamplifier	Com-Power	PA-840	711013	May 13, 2014	2 Year
Loop Antenna	Com-Power	AL-130	17089	February 6, 2015	2 Year
Horn Antenna	Com-Power	AH-118	071175	February 26, 2014	2 Year
Horn Antenna	Com-Power	AH-826	0071957	N/A	N/A
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A
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

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Emissions test equipment continued

EQUIPMENT TYPE	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CAL. CYCLE
RF CONDUCTED EMISSIONS TEST EQUIPMENT					
Shield Room Test	Compatible Electronics	11CD	N/A	N/A	N/A
LISN	Com-Power	LI-215	12082	June 12, 2014	1 Year
LISN	Com-Power	LI-215	12090	June 12, 2014	1 Year
Transient Limiter	Com-Power	252A910	1	October 10, 2014	1 Year
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08784	May 20, 2014	1 Year
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	2648A14530	May 20, 2014	1 Year
Quasi-Peak Adapter	Hewlett Packard	85650A	2811A01363	May 20, 2014	1 Year

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6. TEST SITE DESCRIPTION

6.1 Test Facility Description

Please refer to section 2.1 and 7.1 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 grounded via the third wire safety ground in the AC power plug.

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 Radiated Emissions (Spurious and Harmonics) Test – Lab B

The EMI Receiver was used as a measuring meter. A preamplifier was used to increase the sensitivity of the instrument. The EMI Receiver was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the EMI Receiver records the highest measured reading over all the sweeps.

For frequencies above 1 GHz, the readings were averaged using an average detector on the EMI receiver.

The measurement bandwidth and transducer used for the radiated emissions test were:

FREQUENCY RANGE	EFFECTIVE MEASUREMENT BANDWIDTH	TRANSDUCER
1 GHz to 18 GHz	1 MHz	Horn Antenna
18 GHz to 25 GHz	1 MHz	Horn Antenna

The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 2009. 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 by the Radiated Emission Manual Test software. 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.

Radiated Emissions (Spurious and Harmonics) Test -- Lab B (con't)

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. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance from 1 GHz to 25 GHz to obtain the final test data.

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, Sections 15.209 and 15.247 (d) for radiated emissions. Please see Appendix E for the data sheets.

7.1.2 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 in 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 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. A quasi-peak reading was taken only for those readings, which are marked accordingly on the data sheets.

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

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

The EUT was tested at a 3 meter test distance.

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, Sections 15.209 and 15.247 (d) for radiated emissions. Please see Appendix E for the data sheets.

7.1.3 Conducted Emissions Test

The spectrum analyzer was used as a measuring meter. The data was collected with the spectrum analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A transient limiter was used for the protection of the spectrum analyzer input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the spectrum analyzer. The output of the 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 the Compatible Electronics software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The six highest emissions are listed in Table 2.0. 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 for conducted emissions.

7.1.4 RF Emissions Test Results

Table 1.0 RADIATED EMISSION RESULTS

InteliSocket with RF Module, Models: IS-201 and IS-204 (Host Devices)

Frequency MHz	Average Corrected Reading* dBuV	Specification Limit dBuV	Delta (Cor. Reading – Spec. Limit) dB
4810 (H) (Z-Axis) (Low Channel) (201)	52.81 (A)	54.00	-1.19
4950 (H) (X-Axis) (High Channel) (201)	52.51 (A)	54.00	-1.49
4950 (V) (X-Axis) (High Channel) (201)	50.71 (A)	54.00	-3.29
4950 (V) (Y-Axis) (High Channel) (201)	50.41 (A)	54.00	-3.59
4810 (H) (Z-Axis) (Low Channel) (204)	49.68 (A)	54.00	-4.32
4880 (H) (X-Axis) (Middle Channel) (201)	49.62 (A)	54.00	-4.38

Table 2.0 CONDUCTED EMISSION RESULTS

InteliSocket with RF Module, Models: IS-201 and IS-204 (Host Devices)

Frequency MHz	QP Emission Level* dBuV	Average Specification Limit dBuV	Delta (Emission – Spec. Limit) dB
0.831 (BL) (201)	41.14	46.00	-4.86
0.788 (BL) (201)	41.04	46.00	-4.96
0.255 (WL) (201)	46.62	51.60	-4.98
0.524 (BL) (201)	40.84	46.00	-5.16
0.637 (BL) (201)	40.84	46.00	-5.16
0.709 (BL) (201)	40.84	46.00	-5.16

Notes:

* The complete emissions data is given in Appendix E of this report.

(BL) Black Lead

(WL) White Lead

(H) Horizontal

(201) Model: IS-201

(V) Vertical

(204) Model: IS-204

(QP) Average Reading

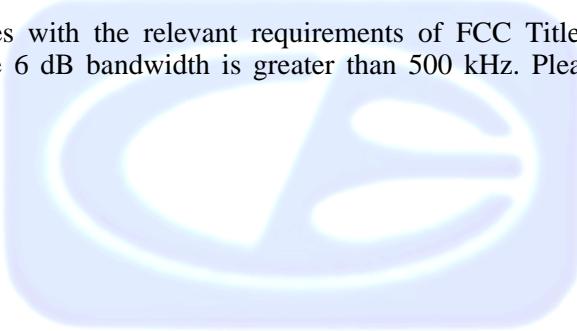
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7.2 DTS Bandwidth

The DTS Bandwidth was measured using the EMI Receiver. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (a)(2). The 6 dB bandwidth is greater than 500 kHz. Please see the data sheets located in Appendix E.



7.3 Peak Output Power

Since antenna conducted tests could not be performed on the EUT due to a lack of an antenna connector on the EUT, the peak output power was calculated by the following equation:

$$P = [(E \cdot D)^2] / (30 \cdot G)$$

Where:

P = Power in Watts for which you are solving

E = The measured maximum field strength in V/m utilizing the widest available RBW.

G = The numeric gain of the transmitting antenna over an isotropic radiator.

D = Test distance in meters.

Test Results:

This test complies with the relevant requirements of CFR Title 47, Part 15, Subpart C section 15.247 (b)(3).

7.4 RF Antenna Conducted Test

Since antenna conducted tests could not be performed on the EUT due to a lack of an antenna connector on the EUT, all harmonics were tested using the radiated emissions test procedure located in section 7.1.2 of this test report. Please see section 7.1.2 for test results.

7.5

RF Band Edges

The RF band edges were taken at the edges of the ISM spectrum (2400 MHz when the EUT was on the low channel and 2483.5 MHz when the EUT was on the high channel) using the EMI Receiver. A preamplifier was used to boost the signal level, with the plots being taken at a 3 meter test distance. The radiated emissions test procedure as describe in section 7.1.2 of this test report was used to maximize the emission.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (d). The RF power at the restricted bands closest to the band edges at 2390 MHz and 2483.5 MHz meet the limits of section 15.209. Please see the data sheets located in Appendix E.

7.6

Spectral Density Test

Since antenna conducted tests could not be performed on the EUT due to a lack of an antenna connector on the EUT, the spectral density was measured as follows:

A. The EMI receiver analyzer was tuned to the highest point of the maximized fundamental emission based on the procedure used in section 7.1.2. The spectrum analyzer was then set to an RBW of 3 kHz, VBW of 10 kHz, frequency span of 300 kHz, and a sweep time of 100 seconds. Using these settings, the peak level was obtained.

B. Using the peak level obtained in step 1, the field strength, E, was derived by applying the appropriate antenna factor, cable loss, and pre-amp gain for that frequency.

C. The following equation was then used to calculate the power level for comparison to the +8 dBm limit:

$$P = [(E \cdot D)^2] / (30 G)$$

Where:

P = Power in Watts for which you are solving

E = the field strength in V/m obtained in step B

G = the numeric gain of the transmitting antenna over an isotropic radiator

D = Test distance in meters.

Test Results:

This test complies with the relevant requirements of CFR Title 47, Part 15, Subpart C section 15.247 (e).

8. CONCLUSIONS

The InteliSocket with RF Module, Models: IS-201 and IS-204 (Host Devices), as tested, meets all of the specification limits defined in FCC Title 47, Part 15, Subpart B, and Subpart C, sections 15.205, 15.209, 15.207, and 15.247.



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APPENDIX A

LABORATORY ACCREDITATIONS AND RECOGNITIONS

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LABORATORY ACCREDITATIONS AND RECOGNITIONS



For US, Canada, Australia/New Zealand, Japan, Taiwan, Korea, and the European Union, Compatible Electronics is currently accredited by NVLAP to ISO/IEC 17025. Please follow the link to the NIST/NVLAP site for each of our facilities' NVLAP certificate and scope of accreditation

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.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."



ANSI listing [CETCB](#)



Compatible Electronics has been nominated as a Conformity Assessment Body (CAB) for EMC under the US/EU Mutual Recognition Agreement (MRA).

[US/EU MRA list](#) [NIST MRA site](#)



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19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

APPENDIX B

MODIFICATIONS TO THE EUT

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

MODIFICATIONS TO THE EUT

The modifications listed below were made to the EUT to pass FCC Subpart B and FCC 15.247 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.

The EUT was not modified during the testing.



Brea Division
114 Olinda Drive
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Agoura, CA 91301
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Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

APPENDIX C

ADDITIONAL MODELS COVERED UNDER THIS REPORT

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

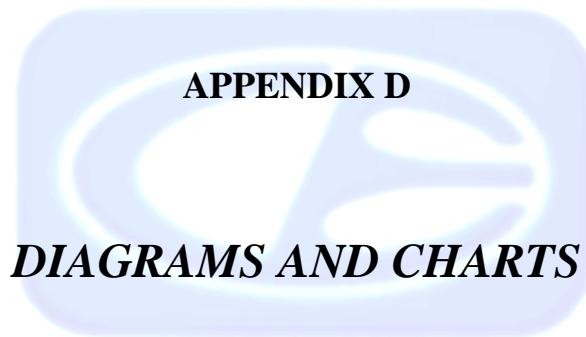
ADDITIONAL MODELS COVERED UNDER THIS REPORT

USED FOR THE PRIMARY TEST

InteliSocket with RF Module
Models: IS-201 and IS-204 (Host Devices)
S/N: N/A

There were no additional models covered under this report.





APPENDIX D

DIAGRAMS AND CHARTS

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

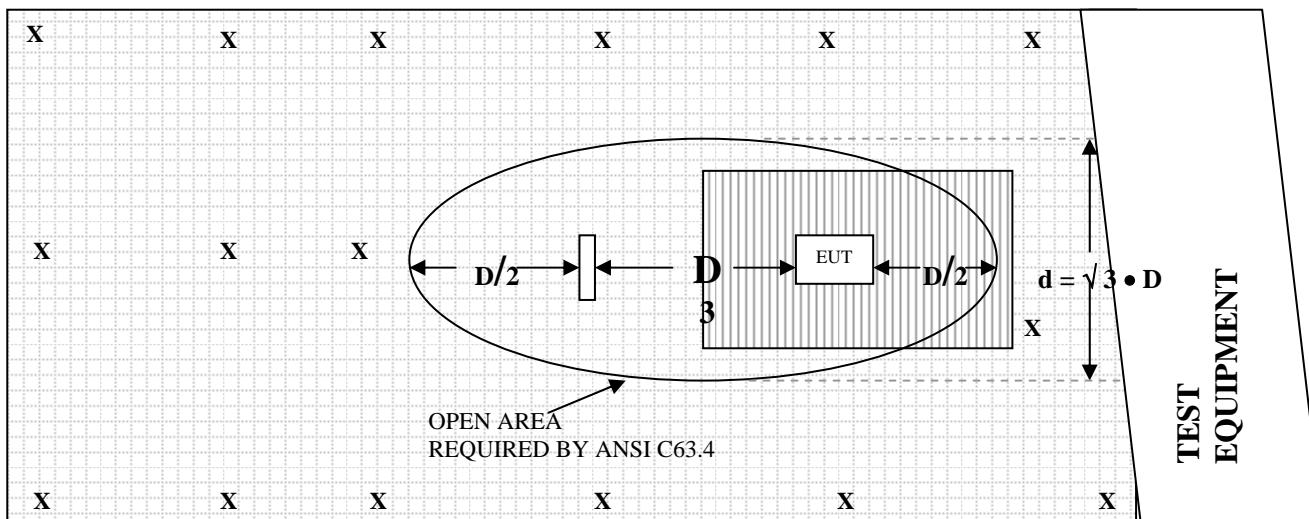
Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

FIGURE 1: PLOT MAP AND LAYOUT OF RADIATED SITE

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS

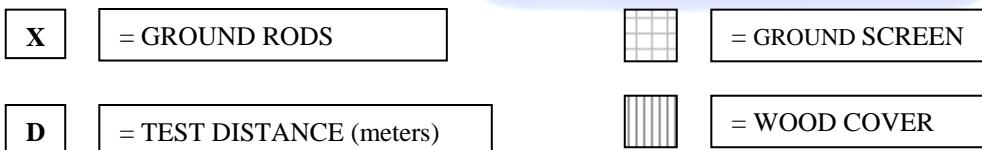


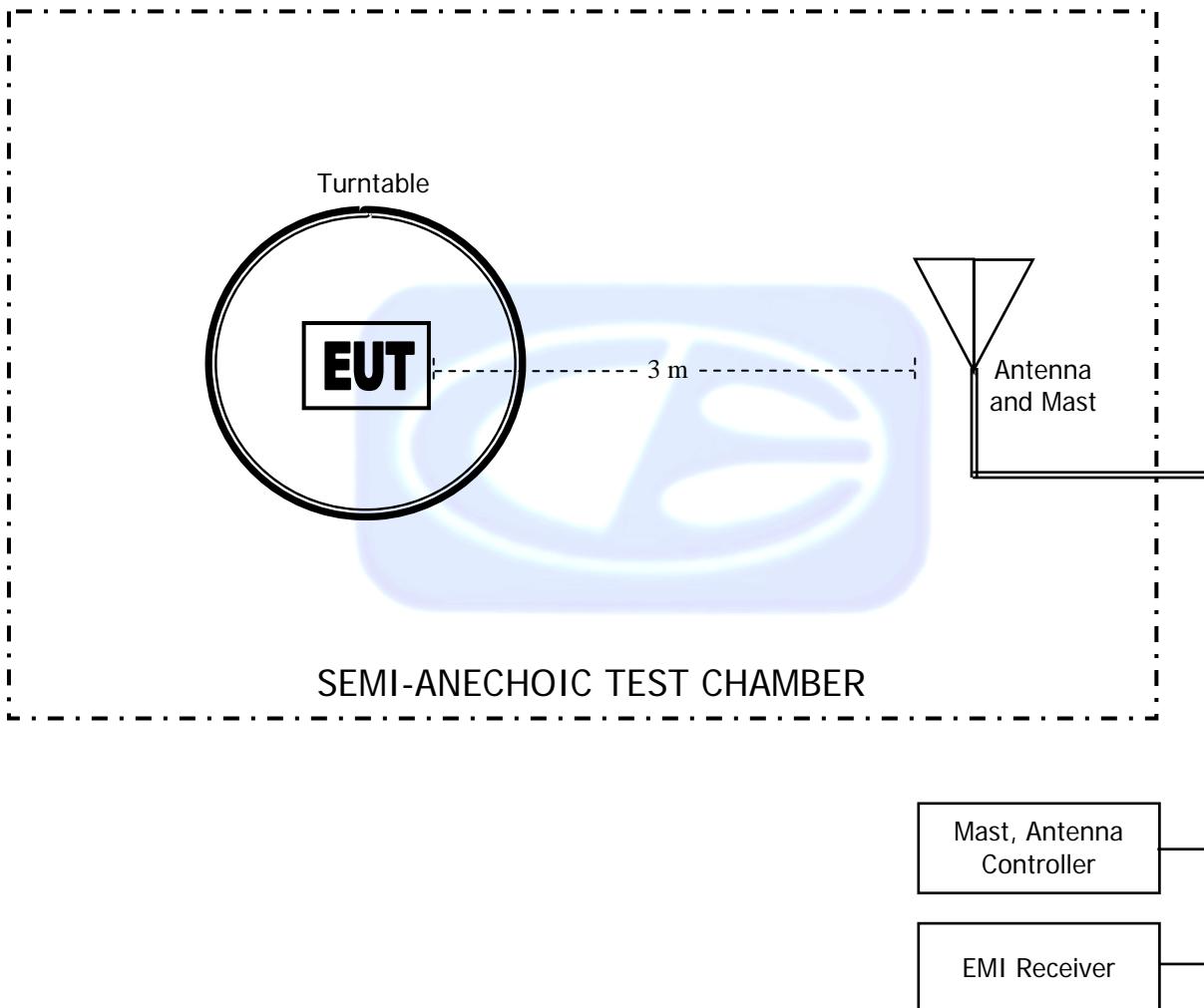
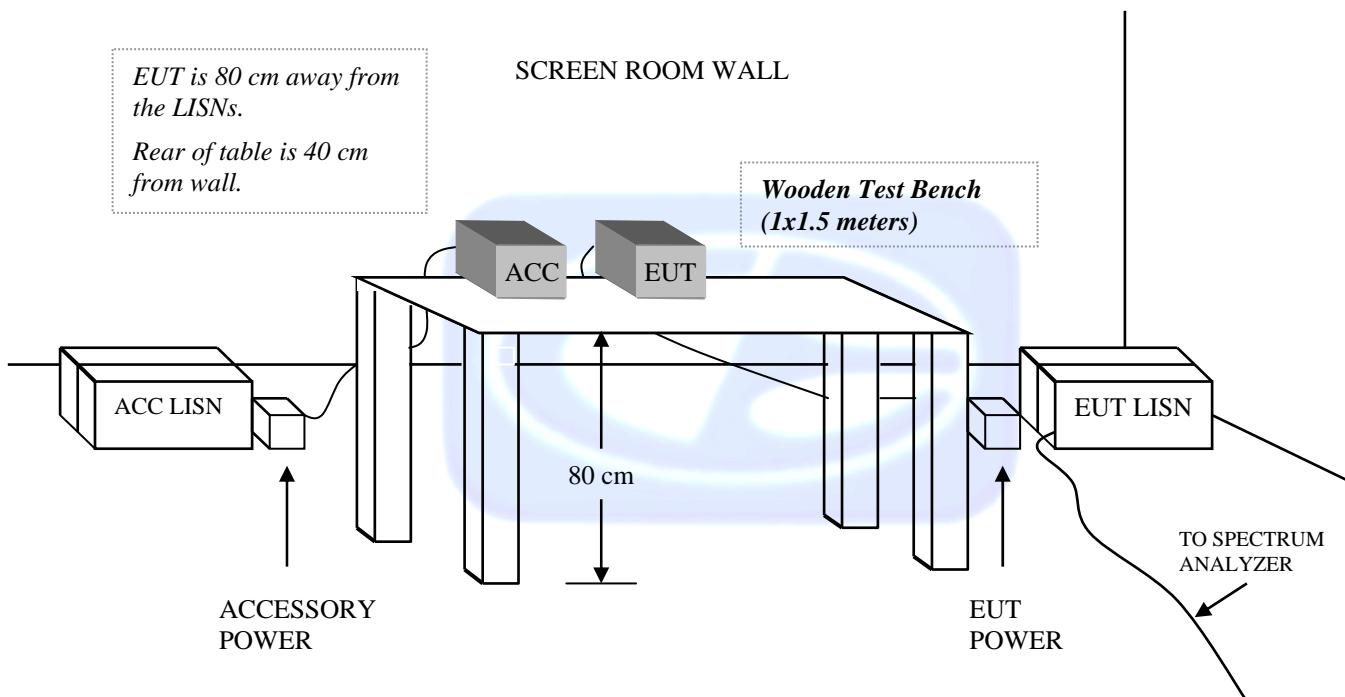
FIGURE 2: LAYOUT OF THE SEMI-ANECHOIC TEST CHAMBER

FIGURE 3: CONDUCTED EMISSIONS TEST SETUP





COM-POWER AL-130

LOOP ANTENNA

S/N: 17089

CALIBRATION DATE: FEBRUARY 6, 2015

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-33.18	18.32
0.01	-34.10	17.40
0.02	-38.65	12.85
0.03	-39.28	12.22
0.04	-40.09	11.41
0.05	-40.85	10.65
0.06	-40.88	10.62
0.07	-41.07	10.43
0.08	-41.04	10.46
0.09	-41.19	10.31
0.1	-41.20	10.30
0.2	-41.52	9.98
0.3	-41.53	9.97
0.4	-41.42	10.08
0.5	-41.53	9.97
0.6	-41.53	9.97
0.7	-41.43	10.07
0.8	-41.23	10.27
0.9	-41.13	10.37
1	-41.14	10.36
2	-40.80	10.70
3	-40.66	10.84
4	-40.61	10.89
5	-40.33	11.17
6	-40.53	10.97
7	-40.47	11.03
8	-40.48	11.02
9	-39.93	11.57
10	-39.81	11.69
15	-43.35	8.15
20	-39.16	12.34
25	-40.24	11.26
30	-43.18	8.32

COM-POWER AC-220

COMBILOG ANTENNA

S/N: 61060

CALIBRATION DATE: MAY 20, 2014

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	23.40	200	14.40
35	23.70	250	16.40
40	24.20	300	17.90
45	22.60	350	15.60
50	22.10	400	19.90
60	17.90	450	20.40
70	12.70	500	21.60
80	11.60	550	21.50
90	12.20	600	22.30
100	13.20	650	23.50
120	15.70	700	23.70
125	15.80	750	25.90
140	13.60	800	25.90
150	16.90	850	26.40
160	14.20	900	27.00
175	14.90	950	27.70
180	15.00	1000	27.50

COM POWER AH-118

HORN ANTENNA

S/N: 071175

CALIBRATION DATE: FEBRUARY 26, 2014

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	24.23	10.0	38.43
1.5	25.84	10.5	40.19
2.0	28.14	11.0	40.49
2.5	29.51	11.5	41.39
3.0	31.20	12.0	42.02
3.5	32.17	12.5	43.30
4.0	31.40	13.0	42.77
4.5	31.86	13.5	40.18
5.0	34.82	14.0	42.59
5.5	34.38	14.5	41.74
6.0	36.31	15.0	41.84
6.5	34.81	15.5	38.48
7.0	37.48	16.0	39.52
7.5	36.98	16.5	37.85
8.0	36.66	17.0	41.33
8.5	38.47	17.5	44.96
9.0	37.22	18.0	48.50
9.5	37.86		

COM-POWER PA-118

PREAMPLIFIER

S/N: 551024

CALIBRATION DATE: MARCH 6, 2015

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	39.76	6.0	38.77
1.1	40.46	6.5	38.46
1.2	40.05	7.0	38.27
1.3	40.58	7.5	38.77
1.4	39.50	8.0	39.25
1.5	39.92	8.5	38.63
1.6	40.40	9.0	39.58
1.7	40.10	9.5	42.12
1.8	40.49	10.0	38.53
1.9	38.86	11.0	40.21
2.0	41.53	12.0	41.15
2.5	41.05	13.0	40.51
3.0	40.29	14.0	40.32
3.5	40.82	15.0	39.47
4.0	40.88	16.0	39.88
4.5	41.37	17.0	39.79
5.0	40.73	18.0	40.61
5.5	39.05		

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

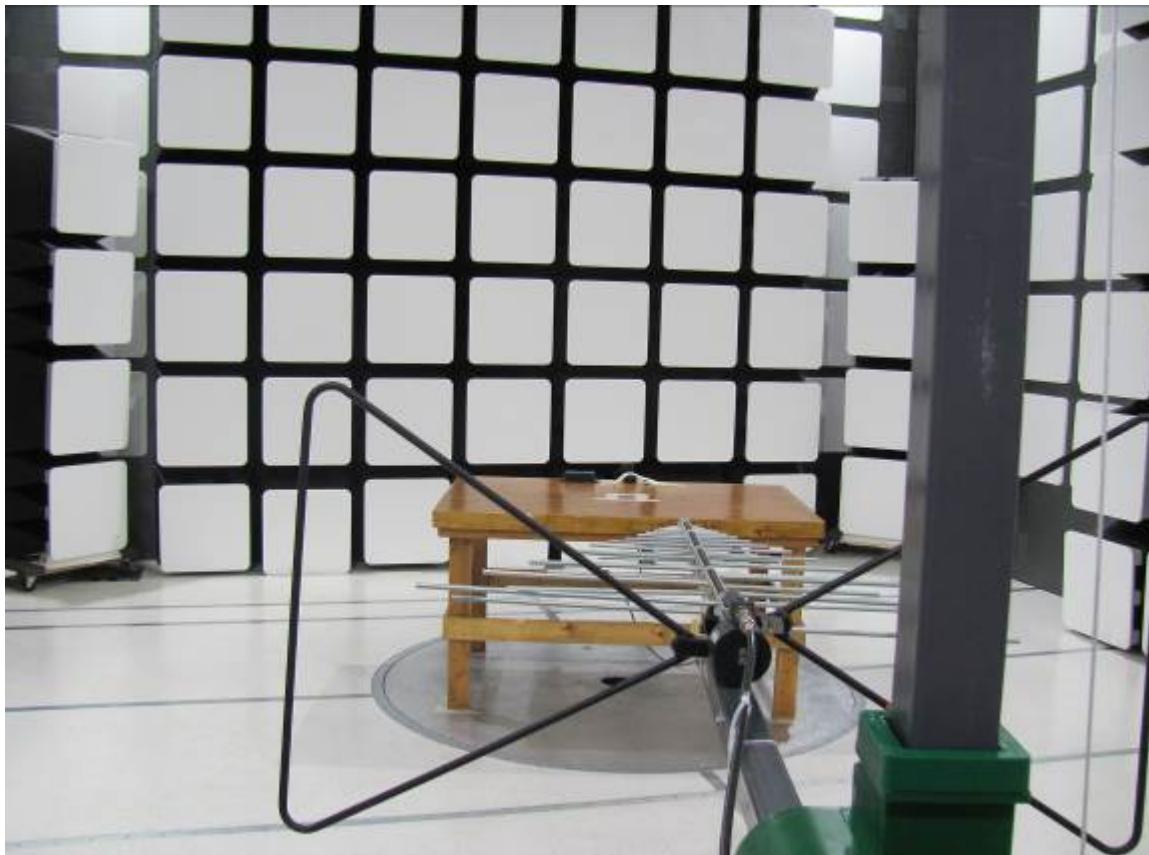
COM-POWER PA-840

MICROWAVE PREAMPLIFIER

S/N: 711013

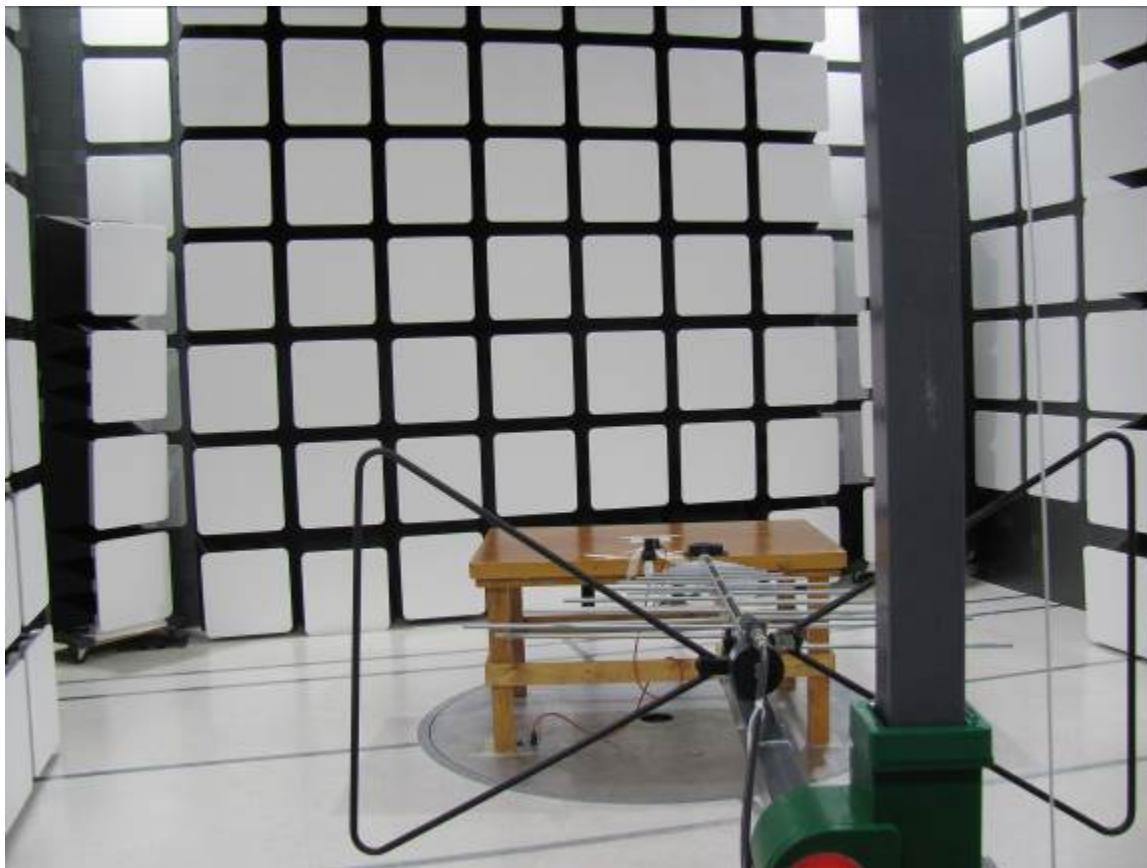
CALIBRATION DATE: MAY 13, 2014

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
18.0	25.19	31.0	25.69
19.0	24.48	31.5	25.74
20.0	24.39	32.0	26.35
21.0	24.73	32.5	26.64
22.0	23.49	33.0	25.98
23.0	24.23	33.5	24.68
24.0	24.59	34.0	24.61
25.0	25.32	34.5	23.78
26.0	25.66	35.0	24.74
26.5	25.99	35.5	24.39
27.0	26.26	36.0	23.46
27.5	25.33	36.5	23.71
28.0	24.49	37.0	26.35
28.5	24.74	37.5	23.49
29.0	25.93	38.0	25.42
29.5	26.28	38.5	24.87
30.0	26.17	39.0	22.60
30.5	26.11	39.5	20.57
		40.0	19.15

**FRONT VIEW**

IBIS NETWORKS
INTELISOCKET WITH RF MODULE
MODEL: IS-201
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz

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

**REAR VIEW**

IBIS NETWORKS
INTELISOCKET WITH RF MODULE
MODEL: IS-201

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

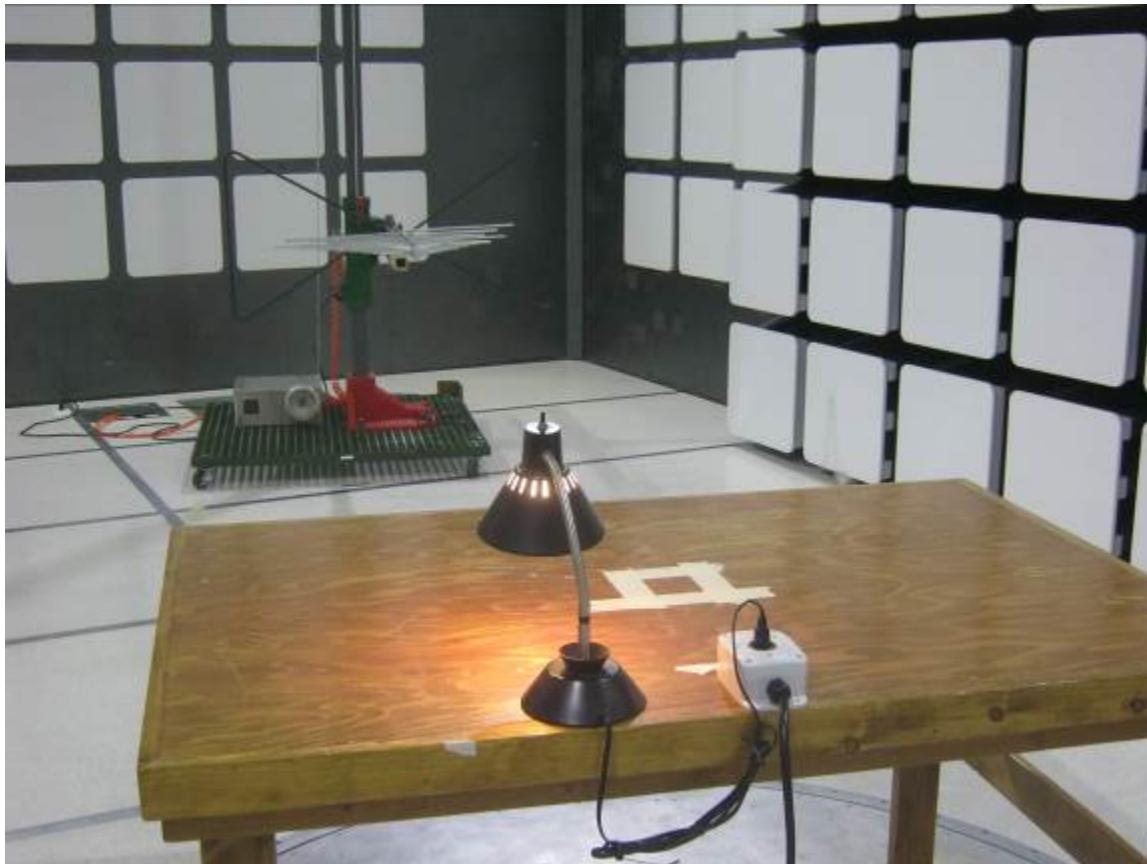
**PHOTOGRAPH SHOWING THE EUT CONFIGURATION
FOR MAXIMUM EMISSIONS**

**FRONT VIEW**

IBIS NETWORKS
INTELISOCKET WITH RF MODULE
MODEL: IS-204

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

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

**REAR VIEW**

IBIS NETWORKS
INTELISOCKET WITH RF MODULE
MODEL: IS-204
FCC SUBPART B AND C – RADIATED EMISSIONS – BELOW 1 GHz

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

**FRONT VIEW**

IBIS NETWORKS
INTELISOCKET WITH RF MODULE
MODEL: IS-201

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

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

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
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(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

**REAR VIEW**

IBIS NETWORKS
INTELISOCKET WITH RF MODULE
MODEL: IS-201
FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

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

**FRONT VIEW**

IBIS NETWORKS
INTELISOCKET WITH RF MODULE
MODEL: IS-204

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

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Brea Division
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(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

**REAR VIEW**

IBIS NETWORKS
INTELISOCKET WITH RF MODULE
MODEL: IS-204
FCC SUBPART B AND C – RADIATED EMISSIONS – ABOVE 1 GHz

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

**FRONT VIEW**

IBIS NETWORKS
INTELISOCKET WITH RF MODULE
MODEL: IS-201
FCC SUBPART B AND C – CONDUCTED EMISSIONS

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

Brea Division
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Lake Forest Division
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(949) 587-0400

**REAR VIEW**

IBIS NETWORKS
INTELISOCKET WITH RF MODULE
MODEL: IS-201
FCC SUBPART B AND C – CONDUCTED EMISSIONS

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

Brea Division
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(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

**FRONT VIEW**

IBIS NETWORKS
INTELISOCKET WITH RF MODULE
MODEL: IS-204
FCC SUBPART B AND C – CONDUCTED EMISSIONS

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

Brea Division
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Lake Forest Division
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Lake Forest, CA 92630
(949) 587-0400

**FRONT VIEW**

IBIS NETWORKS
INTELISOCKET WITH RF MODULE
MODEL: IS-204
FCC SUBPART B AND C – CONDUCTED EMISSIONS

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

Brea Division
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Lake Forest, CA 92630
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APPENDIX E

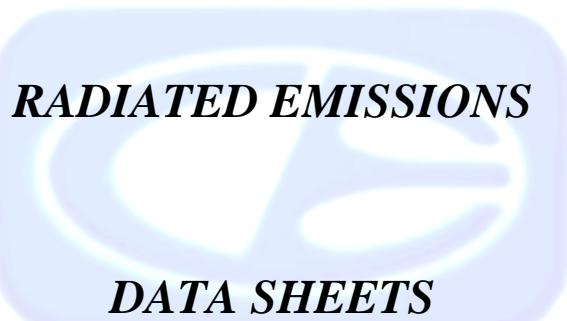
DATA SHEETS

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
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Lake Forest Division
20621 Pascal Way
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(949) 587-0400

RADIATED EMISSIONS

DATA SHEETS

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

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RADIATED EMISSIONS
DATA SHEETS
MODEL: IS-201

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(949) 587-0400



COMPATIBLE ELECTRONICS

FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

Low Channel

Fundamental Readings

Date: 02/26/2015

Lab D

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2405	97.39	V	--	--	Peak	1.5	180	X-Axis Vertical Polarization
2405	96.05	H	--	--	Peak	1.5	180	X-Axis Horizontal Polarization
2405	95.57	V	--	--	Peak	1.5	180	Y-Axis Vertical Polarization
2405	95.35	H	--	--	Peak	1.5	180	Y-Axis Horizontal Polarization
2405	93.29	V	--	--	Peak	1.5	180	Z-Axis Vertical Polarization
2405	99.86	H	--	--	Peak	1.25	135	Z-Axis Horizontal Polarization



COMPATIBLE ELECTRONICS

Report Number: **B50312B1**
FCC Part 15 Subpart B and FCC Section 15.247 Test Report
InteliSocket with RF Module
Models: IS-201 and IS-204 (Host Devices)

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FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

Middle Channel

Fundamental Readings

Date: 02/26/2015

Lab: D

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2440	95.02	V	--	--	Peak	1.5	135	X-Axis Vertical Polarization
2440	93.59	H	--	--	Peak	1.5	90	X-Axis Horizontal Polarization
2440	93.41	V	--	--	Peak	1.25	135	Y-Axis Vertical Polarization
2440	92.16	H	--	--	Peak	1.5	90	Y-Axis Horizontal Polarization
2440	90.35	V	--	--	Peak	1.25	135	Z-Axis Vertical Polarization
2440	96.81	H	--	--	Peak	1.5	90	Z-Axis Horizontal Polarization



COMPATIBLE ELECTRONICS

Report Number: B50312B1

FCC Part 15 Subpart B and FCC Section 15.247 Test Report

InteliSocket with RF Module

Models: IS-201 and IS-204 (Host Devices)

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FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

High Channel

Fundamental

Environmental Monitoring

Date: 02/26/2015

Lab: D

Tested By: Kyle Fujimoto



FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

Low Channel

Transmit Mode - X-Axis

Date: 02/26/2015

Lab: B

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	53.48	V	74	-20.52	Peak	2.5	0	
4810	48.12	V	54	-5.88	Peak	2.5	0	
7215	50.73	V	74	-23.27	Peak	2.5	225	
7215	42.93	V	54	-11.07	Avg	2.5	225	
9620								No Emissions
9620								Detected
12025								No Emissions
12025								Detected
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected



FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

Low Channel

Transmit Mode - Y-Axis

Date: 02/26/2015

Lab: B

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	49.45	V	74	-24.55	Peak	1.25	155	
4810	44.32	V	54	-9.68	Peak	1.25	155	
7215	47.65	V	74	-26.35	Peak	1.15	165	
7215	40.73	V	54	-13.27	Avg	1.15	165	
9620								No Emissions
9620								Detected
12025								No Emissions
12025								Detected
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected



FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

Low Channel

Transmit Mode - Z-Axis

Date: 02/26/2015

Lab: B

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	55.21	V	74	-18.79	Peak	1.25	180	
4810	49.35	V	54	-4.65	Peak	1.25	180	
7215	51.17	V	74	-22.83	Peak	1.35	0	
7215	42.93	V	54	-11.07	Avg	1.35	0	
9620								No Emissions
9620								Detected
12025								No Emissions
12025								Detected
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected



FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

Low Channel

Transmit Mode - X-Axis

Date: 02/26/2015

Lab: B

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	50.46	H	74	-23.54	Peak	1.25	315	
4810	47.56	H	54	-6.44	Peak	1.25	315	
7215	51.57	H	74	-22.43	Peak	1.35	325	
7215	45.22	H	54	-8.78	Avg	1.35	325	
9620								No Emissions
9620								Detected
12025								No Emissions
12025								Detected
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected



FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

Low Channel

Transmit Mode - Y-Axis

Date: 02/26/2015

Lab: B

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	49.51	H	74	-24.49	Peak	1.25	155	
4810	44.32	H	54	-9.68	Peak	1.25	155	
7215	47.49	H	74	-26.51	Peak	1.35	165	
7215	42.23	H	54	-11.77	Avg	1.35	165	
9620								No Emissions
9620								Detected
12025								No Emissions
12025								Detected
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected



FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

Low Channel

Transmit Mode - Z-Axis

Date: 02/26/2015

Lab: B

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	57.61	H	74	-16.39	Peak	1.25	155	
4810	52.81	H	54	-1.19	Peak	1.25	155	
7215	49.42	H	74	-24.58	Peak	1.35	165	
7215	42.92	H	54	-11.08	Avg	1.35	165	
9620								No Emissions
9620								Detected
12025								No Emissions
12025								Detected
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected



FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

Middle Channel

Transmit Mode - X-Axis

Date: 02/27/2015

Lab: B

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4880	51.52	V	74	-22.48	Peak	1.25	180	
4880	48.35	V	54	-5.65	Peak	1.25	180	
7320	51.91	V	74	-22.09	Peak	1.35	175	
7320	48.97	V	54	-5.03	Avg	1.35	175	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-201
Configuration: Continuously Transmitting
Middle Channel
Transmit Mode - Y-Axis

Date: 02/27/2015
Lab: B
Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4880	55.34	V	74	-18.66	Peak	1.25	155	
4880	49.55	V	54	-4.45	Peak	1.25	155	
7320	51.15	V	74	-22.85	Peak	1.15	165	
7320	42.07	V	54	-11.93	Avg	1.15	165	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected



FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

Middle Channel

Transmit Mode - Z-Axis

Date: 02/27/2015

Lab: B

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4880	52.11	V	74	-21.89	Peak	1.25	135	
4880	45.94	V	54	-8.06	Peak	1.25	135	
7320	51.25	V	74	-22.75	Peak	1.35	145	
7320	41.74	V	54	-12.26	Avg	1.35	145	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected



FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

Middle Channel

Transmit Mode - X-Axis

Date: 02/27/2015

Lab: B

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4880	55.34	H	74	-18.66	Peak	1.5	180	
4880	49.62	H	54	-4.38	Peak	1.5	180	
7320	49.25	H	74	-24.75	Peak	1.25	135	
7320	37.64	H	54	-16.36	Avg	1.25	135	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected



FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

Middle Channel

Transmit Mode - Y-Axis

Date: 02/27/2015

Lab: B

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4880	51.65	H	74	-22.35	Peak	1.25	45	
4880	44.79	H	54	-9.21	Peak	1.25	45	
7320	48.13	H	74	-25.87	Peak	1.35	135	
7320	38.73	H	54	-15.27	Avg	1.35	135	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected



FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

Middle Channel

Transmit Mode - Z-Axis

Date: 02/27/2015

Lab: B

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4880	53.95	H	74	-20.05	Peak	1.25	135	
4880	48.97	H	54	-5.03	Avg	1.25	135	
7320	48.66	H	74	-25.34	Peak	1.35	145	
7320	42.11	H	54	-11.89	Avg	1.35	145	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected



FCC 15.247

IBIS Networks

Date: 02/26/2015

InteliSocket

Lab: B

Model: IS-201

Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

High Channel

Transmit Mode - X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	54.84	V	74	-19.16	Peak	1.25	180	
4950	50.71	V	54	-3.29	Peak	1.25	180	
7425	47.99	V	74	-26.01	Peak	1.35	175	
7425	42.01	V	54	-11.99	Avg	1.35	175	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected



FCC 15.247

IBIS Networks

Date: 02/26/2015

InteliSocket

Lab: B

Model: IS-201

Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

High Channel

Transmit Mode - Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	55.84	V	74	-18.16	Peak	1.25	135	
4950	50.41	V	54	-3.59	Peak	1.25	135	
7425	49.51	V	74	-24.49	Peak	1.15	145	
7425	41.68	V	54	-12.32	Avg	1.15	145	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected



FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

High Channel

Transmit Mode - Z-Axis

Date: 02/26/2015

Lab: B

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	55.54	V	74	-18.46	Peak	1.25	180	
4950	49.61	V	54	-4.39	Peak	1.25	180	
7425	47.41	V	74	-26.59	Peak	1.35	175	
7425	41.33	V	54	-12.67	Avg	1.35	175	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-201
Configuration: Continuously Transmitting
High Channel
Transmit Mode - X-Axis

Date: 02/26/2015
Lab: B
Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	56.59	H	74	-17.41	Peak	1.25	45	
4950	52.51	H	54	-1.49	Peak	1.25	45	
7425	49.55	H	74	-24.45	Peak	1.35	135	
7425	42.96	H	54	-11.04	Avg	1.35	135	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-201
Configuration: Continuously Transmitting
High Channel
Transmit Mode - Y-Axis

Date: 02/26/2015
Lab: B
Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	54.41	H	74	-19.59	Peak	1.25	180	
4950	49.09	H	54	-4.91	Peak	1.25	180	
7425	48.31	H	74	-25.69	Peak	1.35	195	
7425	42.03	H	54	-11.97	Avg	1.35	195	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-201
Configuration: Continuously Transmitting
High Channel
Transmit Mode - Z-Axis

Date: 02/26/2015
Lab: B
Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	54.19	H	74	-19.81	Peak	1.25	155	
4950	48.91	H	54	-5.09	Peak	1.25	155	
7425	49.05	H	74	-24.95	Peak	1.35	145	
7425	38.33	H	54	-15.67	Avg	1.35	145	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected



FCC 15.247 and FCC Class B

IBIS Networks

Date: 03/03/2015

InteliSocket

Labs: B and D

Model: IS-201

Tested By: Kyle Fujimoto

Configuration: Continuously Transmitting

Non Harmonic Emissions from the Tx and Digital Portion - 10 kHz to 1 GHz

Non Harmonic Emissions from the Tx and Digital Portion - 1 GHz to 25 GHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
								No Emissions Found for the Digital Portion from 10 kHz to 1 GHz for both Vertical and Horizontal Polarizations
								No Non Harmonic Emissions Found for the Tx Mode from 10 kHz to 1 GHz for both Vertical and Horizontal Polarizations
								Investigated in the X-Axis, Y-Axis, and Z-Axis
								No Emissions Found for the Digital Portion from 1 GHz to 25 GHz for both Vertical and Horizontal Polarizations
								No Non Harmonic Emissions Found for the Tx Mode from 1 GHz to 25 GHz for both Vertical and Horizontal Polarizations
								Investigated in the X-Axis, Y-Axis, and Z-Axis

RADIATED EMISSIONS
DATA SHEETS
MODEL: IS-204

Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400

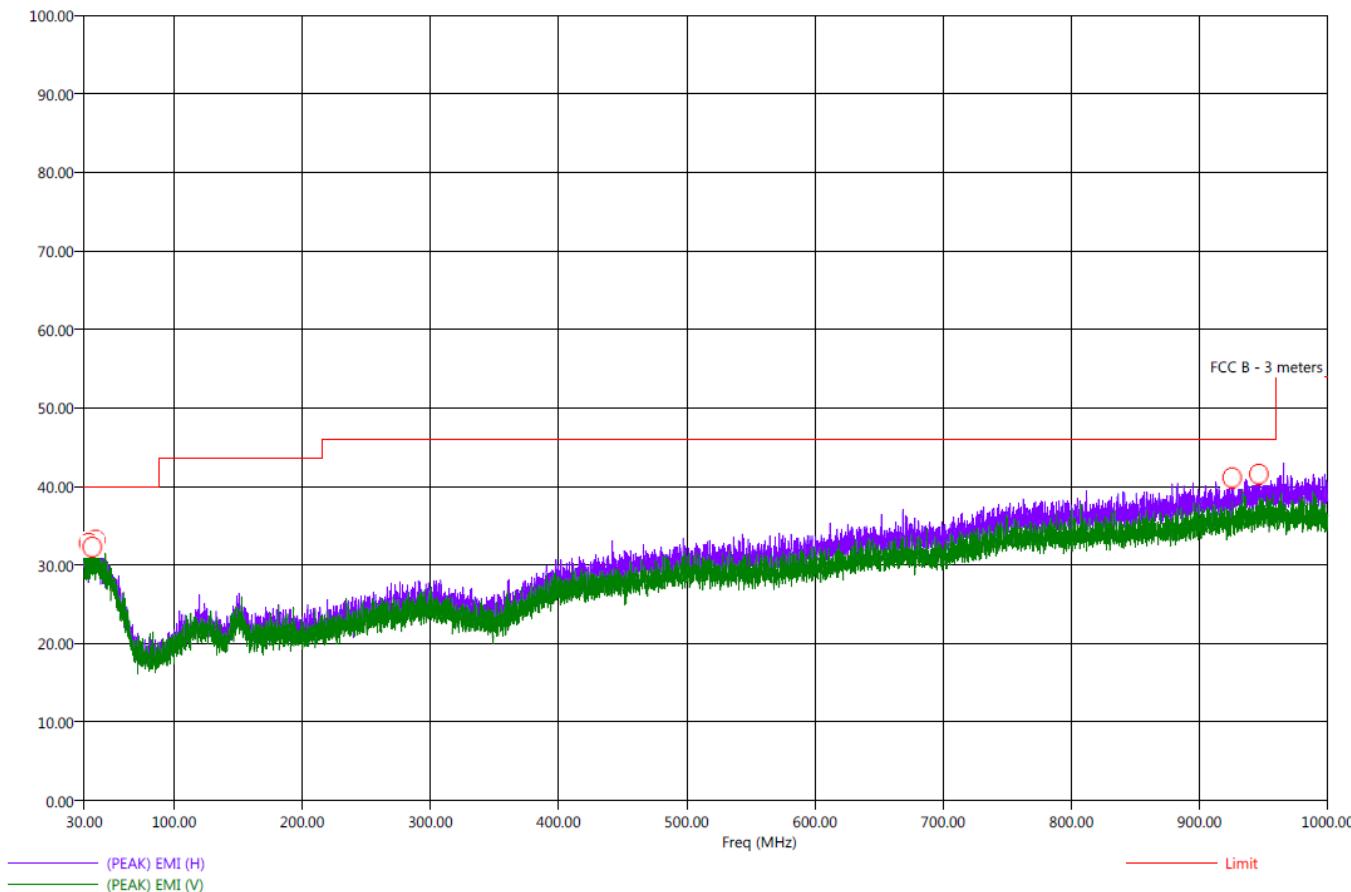


Title: Pre-Scan - FCC Class B
File: Radiated Pre-Scan 30-1000Mhz - FCC Class B_X-Axis.set
Operator: Kenneth Lee
EUT Type: Intelisocket
EUT Condition: The EUT is continuously Transmitting - X-Axis - Worst Case
Comments: Customer: IBIS Networks
Model: IS-204

3/6/2015 2:38:08 PM
Sequence: Preliminary Scan

Pre-Scan - FCC Class B

Electric Field Strength (dB μ V/m)



Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



Title: Radiated Final - 30-1000 MHz - FCC Class B
File: Agilent - Radiated Final Scan 30-1000Mhz - FCC Class B.set
Operator: Kenneth Lee
EUT Type: InteliSocket
EUT Condition: The EUT is continuously Transmiitting - X-Axis - Worst Case
Comments: Customer: IBIS Networks
Model: IS-204

3/6/2015 2:54:22 PM
Sequence: Final Measurements

Final Scan - FCC Class B

Freq (MHz)	Pol	(PEAK) EMI (dB μ V/m)	(OP) EMI (dB μ V/m)	(PEAK) Margin (dB)	(QP) Margin (dB)	Limit (dB μ V/m)	Transducer (dB)	Cable (dB)	Twr Ht (cm)	Ttbl Aql (dea)
33.50	H	36.08	31.92	-3.92	-8.08	40.00	23.61	0.38	159.07	153.50
35.60	H	36.38	31.96	-3.62	-8.04	40.00	23.78	0.40	159.67	176.00
36.40	V	36.24	32.08	-3.76	-7.92	40.00	23.83	0.40	399.79	85.25
38.90	H	36.32	32.28	-3.68	-7.72	40.00	24.05	0.42	223.43	299.75
925.40	H	43.76	39.74	-2.24	-6.26	46.00	27.37	2.68	191.61	31.25
946.30	H	44.27	40.15	-1.73	-5.85	46.00	27.65	2.70	238.95	269.50



Brea Division
114 Olinda Drive
Brea, CA 92823
(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
19121 El Toro Road
Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



COMPATIBLE ELECTRONICS

FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015

Lab P

Tested By: Kenneth Lee

Low Channel

Fundamental Readings

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2405	94.31	V	--	--	Peak	1	160	X-Axis Vertical Polarization
2405	93.44	H	--	--	Peak	1	170	X-Axis Horizontal Polarization
2405	93.92	V	--	--	Peak	1.5	180	Y-Axis Vertical Polarization
2405	93.35	H	--	--	Peak	1	160	Y-Axis Horizontal Polarization
2405	93.58	V	--	--	Peak	1.1	150	Z-Axis Vertical Polarization
2405	95.96	H	--	--	Peak	1	210	Z-Axis Horizontal Polarization



COMPATIBLE ELECTRONICS

FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015

Lab: B

Tested By: Kenneth Lee

Middle Channel

Fundamental Readings

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2440	92.6	V	--	--	Peak	1	160	X-Axis Vertical Polarization
2440	88.35	H	--	--	Peak	1	270	X-Axis Horizontal Polarization
2440	91.95	V	--	--	Peak	1.1	190	Y-Axis Vertical Polarization
2440	90.37	H	--	--	Peak	1.5	270	Y-Axis Horizontal Polarization
2440	89.5	V	--	--	Peak	1.1	150	Z-Axis Vertical Polarization
2440	92.18	H	--	--	Peak	1.25	180	Z-Axis Horizontal Polarization



COMPATIBLE ELECTRONICS

FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015

Lab: B

Tested By: Kenneth Lee

High Channel Fundamental Readings

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2475	88.74	V	--	--	Peak	1	235	X-Axis Vertical Polarization
2475	85.44	H	--	--	Peak	1	270	X-Axis Horizontal Polarization
2475	88.74	V	--	--	Peak	1.5	180	Y-Axis Vertical Polarization
2475	87.59	H	--	--	Peak	1.1	280	Y-Axis Horizontal Polarization
2475	86.43	V	--	--	Peak	1.25	135	Z-Axis Vertical Polarization
2475	90.76	H	--	--	Peak	1	190	Z-Axis Horizontal Polarization



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015
Lab: B
Tested By: Kenneth Lee

Low Channel

Transmit Mode - X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	51.17	V	74	-22.83	Peak	1.1	180	
4810	41.98	V	54	-12.02	Peak	1.1	180	
7215	52.47	V	74	-21.53	Peak	1.75	0	
7215	39.96	V	54	-14.04	Peak	1.75	0	
9620								No Emissions
9620								Detected
12025								No Emissions
12025								Detected
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015
Lab: B
Tested By: Kenneth Lee

Low Channel

Transmit Mode - Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	52.14	V	74	-21.86	Peak	1.25	235	
4810	42.9	V	54	-11.1	Peak	1.25	235	
7215	52.41	V	74	-21.59	Peak	1.5	180	
7215	41.07	V	54	-12.93	Peak	1.5	180	
9620								No Emissions
9620								Detected
12025								No Emissions
12025								Detected
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015
Lab: B
Tested By: Kenneth Lee

Low Channel

Transmit Mode - Z-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	52.44	V	74	-21.56	Peak	1.1	190	
4810	42.57	V	54	-11.43	Peak	1.1	190	
7215	51.54	V	74	-22.46	Peak	1.25	150	
7215	40.05	V	54	-13.95	Peak	1.25	150	
9620								No Emissions
9620								Detected
12025								No Emissions
12025								Detected
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015
Lab: B
Tested By: Kenneth Lee

Low Channel

Transmit Mode - X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	52.11	H	74	-21.89	Peak	1	170	
4810	42.53	H	54	-11.47	Peak	1	170	
7215	49.93	H	74	-24.07	Peak	1.5	70	
7215	36.94	H	54	-17.06	Peak	1.5	70	
9620								No Emissions
9620								Detected
12025								No Emissions
12025								Detected
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected

Brea Division
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(714) 579-0500

Agoura Division
2337 Troutdale Drive
Agoura, CA 91301
(818) 597-0600

Silverado Division
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Silverado, CA 92676
(949) 589-0700

Lake Forest Division
20621 Pascal Way
Lake Forest, CA 92630
(949) 587-0400



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015
Lab: B
Tested By: Kenneth Lee

Low Channel

Transmit Mode - Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	53.06	H	74	-20.94	Peak	1	350	
4810	44.56	H	54	-9.44	Peak	1	350	
7215	51.58	H	74	-22.42	Peak	1.25	235	
7215	40.98	H	54	-13.02	Peak	1.25	235	
9620								No Emissions
9620								Detected
12025								No Emissions
12025								Detected
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015
Lab: B
Tested By: Kenneth Lee

Low Channel

Transmit Mode - Z-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4810	56.21	H	74	-17.79	Peak	1	210	
4810	49.68	H	54	-4.32	Peak	1	210	
7215	56.62	H	74	-17.38	Peak	1	180	
7215	45.85	H	54	-8.15	Peak	1	180	
9620								No Emissions
9620								Detected
12025								No Emissions
12025								Detected
14430								No Emissions
14430								Detected
16835								No Emissions
16835								Detected
19240								No Emissions
19240								Detected
21645								No Emissions
21645								Detected
24050								No Emissions
24050								Detected

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(949) 587-0400



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IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015

Lab: B

Tested By: Kenneth Lee

Middle Channel
Transmit Mode - X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4880	51.25	V	74	-22.75	Peak	1.25	15	
4880	43.29	V	54	-10.71	Peak	1.25	15	
7320	49.32	V	74	-24.68	Peak	1.5	45	
7320	34.92	V	54	-19.08	Avg	1.5	45	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015

Lab: B

Tested By: Kenneth Lee

Middle Channel
Transmit Mode - Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4880	52.78	V	74	-21.22	Peak	1.4	170	
4880	43.45	V	54	-10.55	Peak	1.4	170	
7320	49.48	V	74	-24.52	Peak	1.75	135	
7320	37.4	V	54	-16.6	Avg	1.75	135	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected

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(949) 587-0400



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IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015

Lab: B

Tested By: Kenneth Lee

Middle Channel
Transmit Mode - Z-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4880	49.57	V	74	-24.43	Peak	1	235	
4880	44.04	V	54	-9.96	Peak	1	235	
7320	50.43	V	74	-23.57	Peak	1.35	310	
7320	35.86	V	54	-18.14	Avg	1.35	310	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected



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IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015

Lab: B

Tested By: Kenneth Lee

Middle Channel
Transmit Mode - X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4880	51.6	H	74	-22.4	Peak	1.25	45	
4880	40.93	H	54	-13.07	Peak	1.25	45	
7320	48.77	H	74	-25.23	Peak	1.25	260	
7320	35.69	H	54	-18.31	Avg	1.25	260	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015

Lab: B

Tested By: Kenneth Lee

Middle Channel
Transmit Mode - Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4880	51.63	H	74	-22.37	Peak	1.1	350	
4880	42.85	H	54	-11.15	Peak	1.1	350	
7320	50.65	H	74	-23.35	Peak	1.25	120	
7320	35.97	H	54	-18.03	Avg	1.25	120	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015

Lab: B

Tested By: Kenneth Lee

Middle Channel
Transmit Mode - Z-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4880	54.19	H	74	-19.81	Peak	1	235	
4880	47.83	H	54	-6.17	Peak	1	235	
7320	49.88	H	74	-24.12	Peak	1	180	
7320	38.94	H	54	-15.06	Avg	1	180	
9760								No Emissions
9760								Detected
12200								No Emissions
12200								Detected
14640								No Emissions
14640								Detected
17080								No Emissions
17080								Detected
19520								No Emissions
19520								Detected
21960								No Emissions
21960								Detected
24400								No Emissions
24400								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015

Lab: B

Tested By: Kenneth Lee

High Channel
Transmit Mode - X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	52.71	V	74	-21.29	Peak	1	355	
4950	46.83	V	54	-7.17	Peak	1	355	
7425	48.76	V	74	-25.24	Peak	1.5	290	
7425	35.47	V	54	-18.53	Avg	1.5	290	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015
Lab: B
Tested By: Kenneth Lee

High Channel
Transmit Mode - Z-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	53.75	V	74	-20.25	Peak	1.1	235	
4950	47.92	V	54	-6.08	Peak	1.1	235	
7425	49.18	V	74	-24.82	Peak	1.5	45	
7425	35.49	V	54	-18.51	Avg	1.5	45	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015

Lab: B

Tested By: Kenneth Lee

High Channel
Transmit Mode - Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	54.16	V	74	-19.84	Peak	1	235	
4950	45.02	V	54	-8.98	Peak	1	235	
7425	50.24	V	74	-23.76	Peak	1.1	135	
7425	36.75	V	54	-17.25	Avg	1.1	135	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015
Lab: B
Tested By: Kenneth Lee

High Channel
Transmit Mode - X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	54.69	H	74	-19.31	Peak	1	45	
4950	45.77	H	54	-8.23	Peak	1	45	
7425	48.32	H	74	-25.68	Peak	1	270	
7425	35.64	H	54	-18.36	Avg	1	270	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected



FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015
Lab: B
Tested By: Kenneth Lee

High Channel
Transmit Mode - Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	54.36	H	74	-19.64	Peak	1.15	350	
4950	45.38	H	54	-8.62	Peak	1.15	350	
7425	49.68	H	74	-24.32	Peak	1.5	270	
7425	35.47	H	54	-18.53	Avg	1.5	270	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected



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IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015
Lab: B
Tested By: Kenneth Lee

High Channel
Transmit Mode - Z-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
4950	53.79	H	74	-20.21	Peak	1	200	
4950	48.06	H	54	-5.94	Peak	1	200	
7425	50.5	H	74	-23.5	Peak	1.1	300	
7425	35.5	H	54	-18.5	Avg	1.1	300	
9900								No Emissions
9900								Detected
12375								No Emissions
12375								Detected
14850								No Emissions
14850								Detected
17325								No Emissions
17325								Detected
19800								No Emissions
19800								Detected
22275								No Emissions
22275								Detected
24750								No Emissions
24750								Detected

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FCC 15.247 and FCC Class B

IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015
Lab: B
Tested By: Kenneth Lee

Non Harmonic Emissions from the Tx and Digital Portion - 10 kHz to 30 MHz

Non Harmonic Emissions from the Tx and Digital Portion - 1 GHz to 25 GHz

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
								No Emissions Found for the Digital Portion from 10 kHz to 30 MHz for both Vertical and Horizontal Polarizations
								No Non Harmonic Emissions Found for the Tx Mode from 10 kHz to 30 MHz for both Vertical and Horizontal Polarizations
								Investigated in the X-Axis, Y-Axis, and Z-Axis
								No Emissions Found for the Digital Portion from 1 GHz to 25 GHz for both Vertical and Horizontal Polarizations
								No Non Harmonic Emissions Found for the Tx Mode from 1 GHz to 25 GHz for both Vertical and Horizontal Polarizations
								Investigated in the X-Axis, Y-Axis, and Z-Axis

-6 dB BANDWIDTH

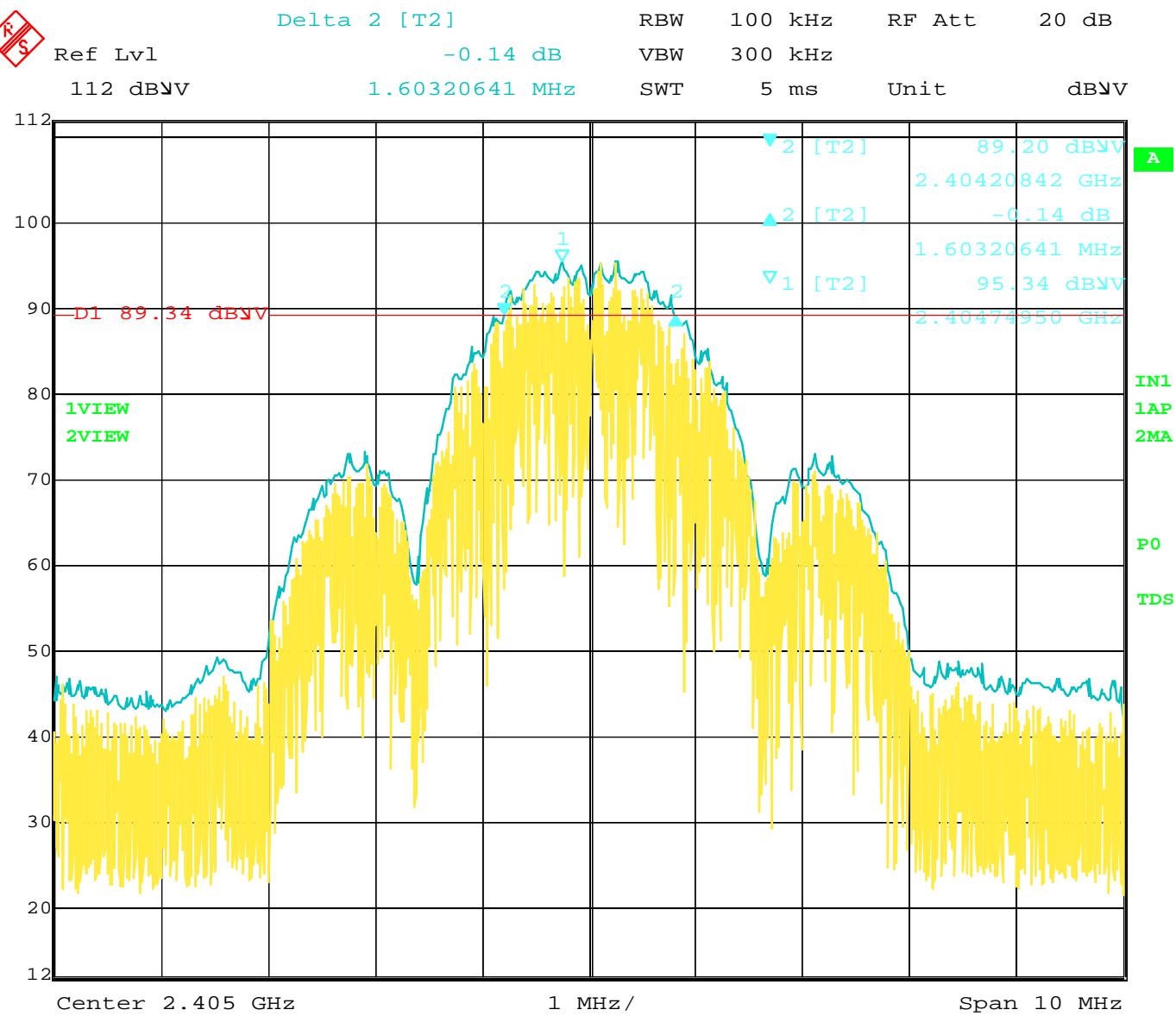
DATA SHEETS

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Agoura Division
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(818) 597-0600

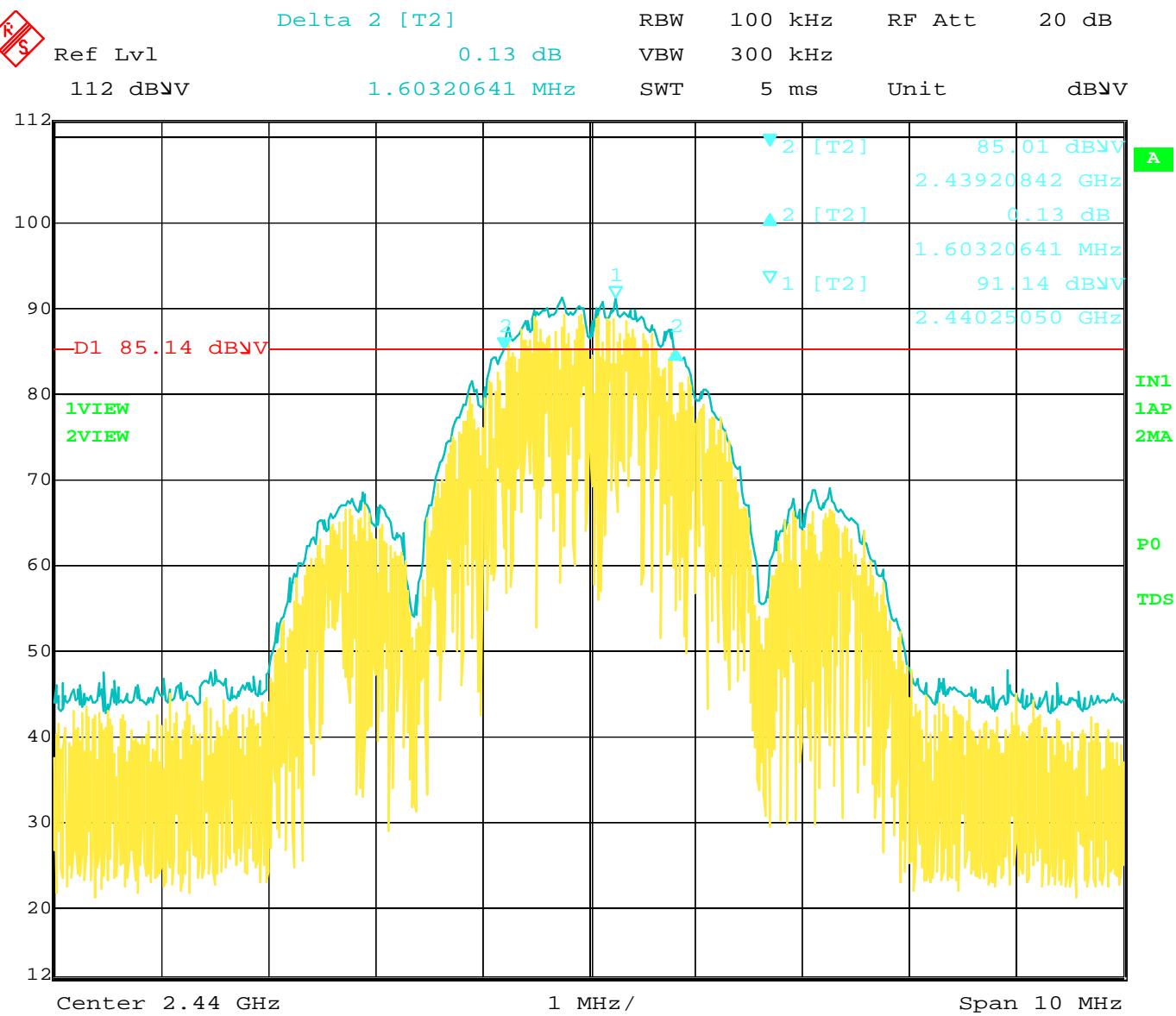
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Lake Forest Division
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(949) 587-0400



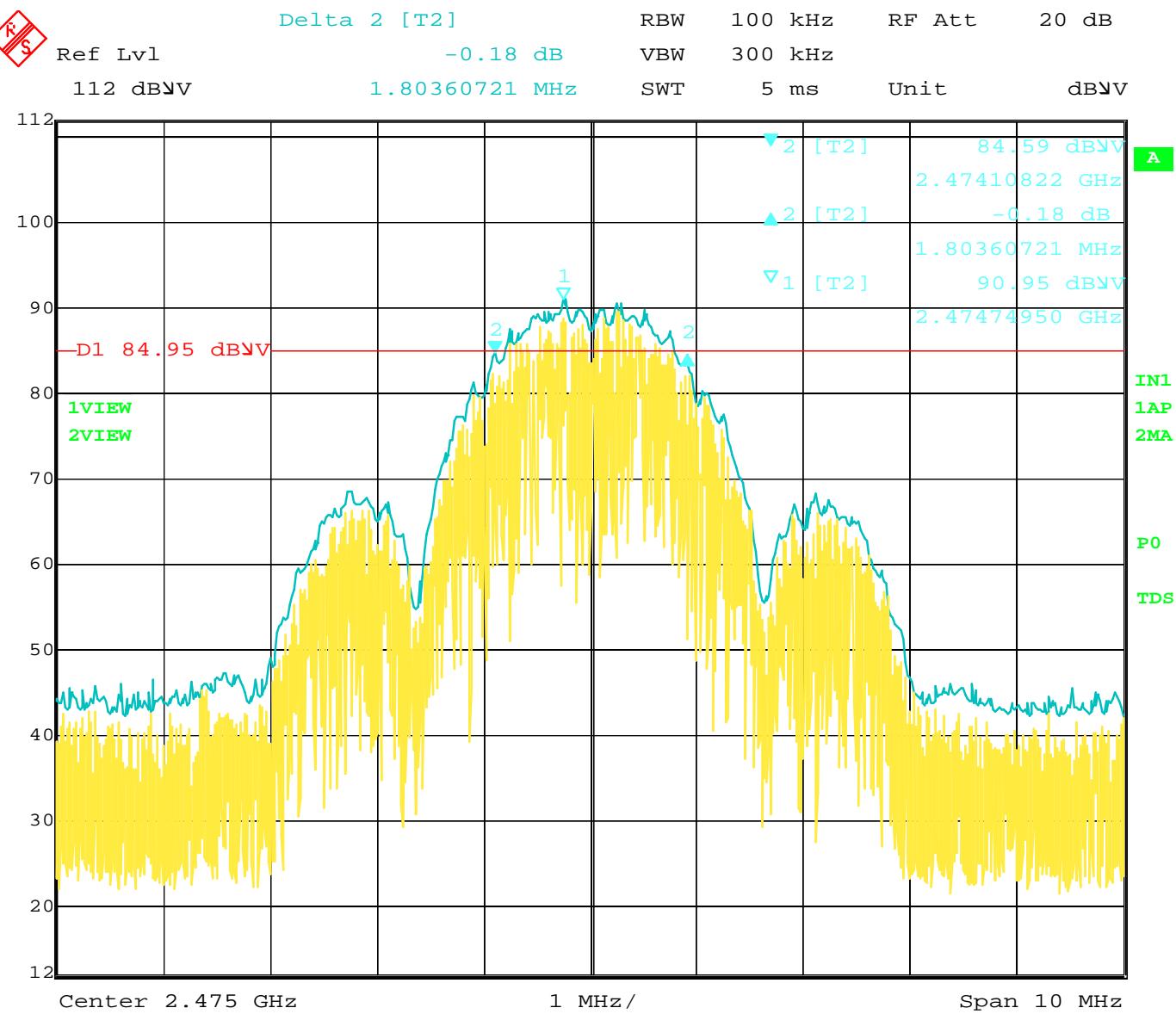
Date: 3.MAR.2015 08:13:58

-6 dB Bandwidth – Low Channel – Model: IS-201



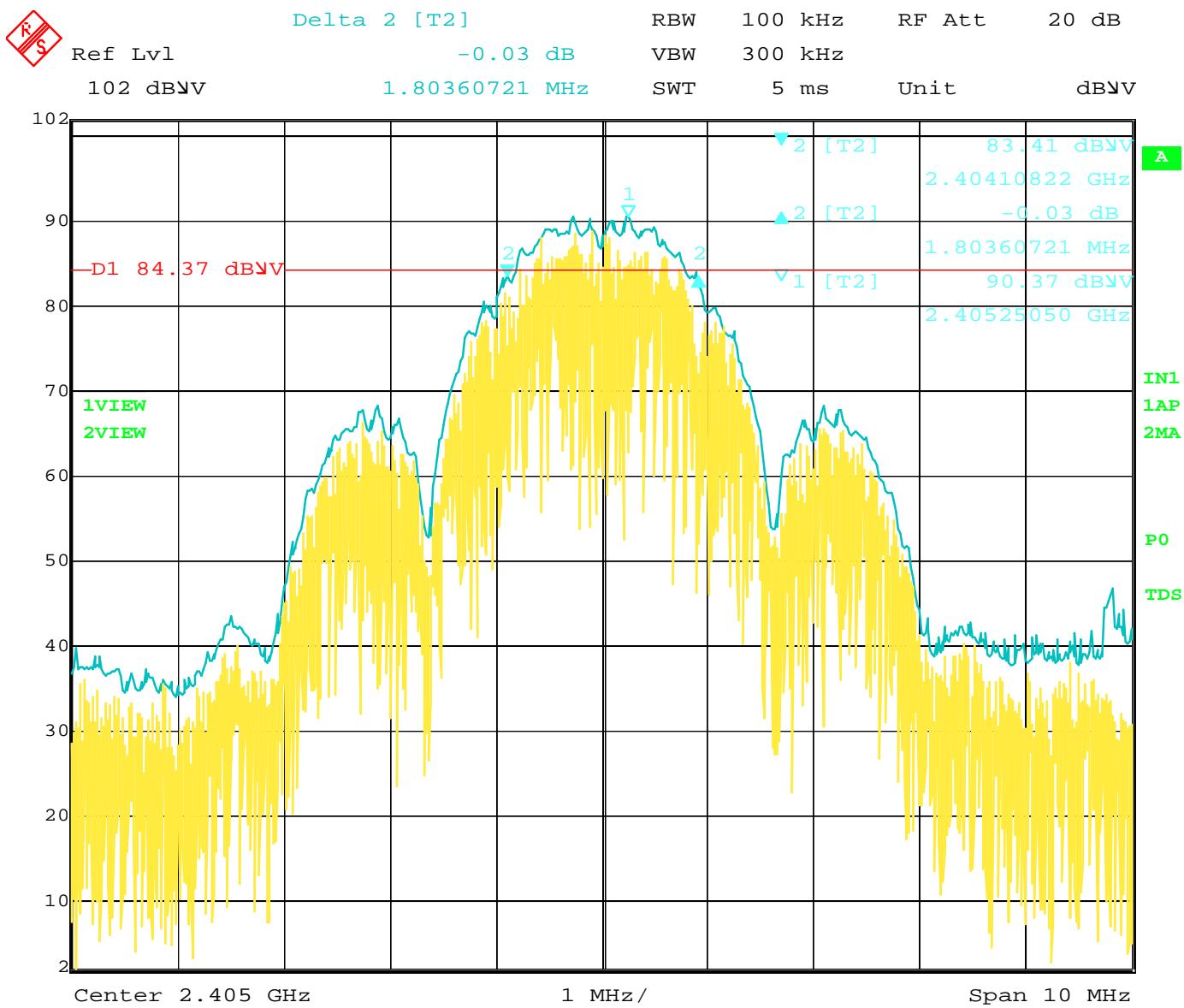
Date: 3.MAR.2015 10:09:06

-6 dB Bandwidth – Middle Channel – Model: IS-201



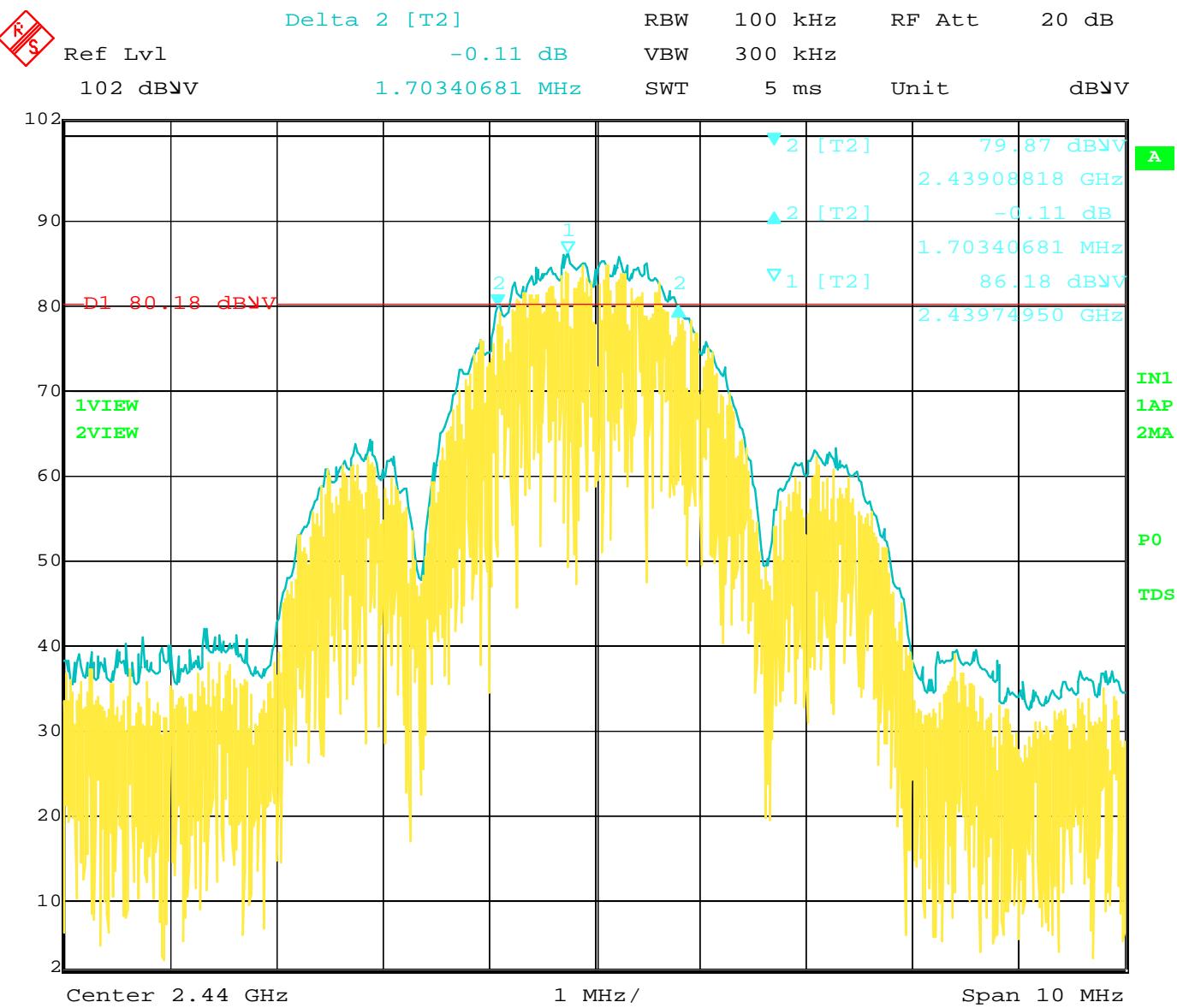
Date: 3.MAR.2015 08:27:04

-6 dB Bandwidth – High Channel – Model: IS-201



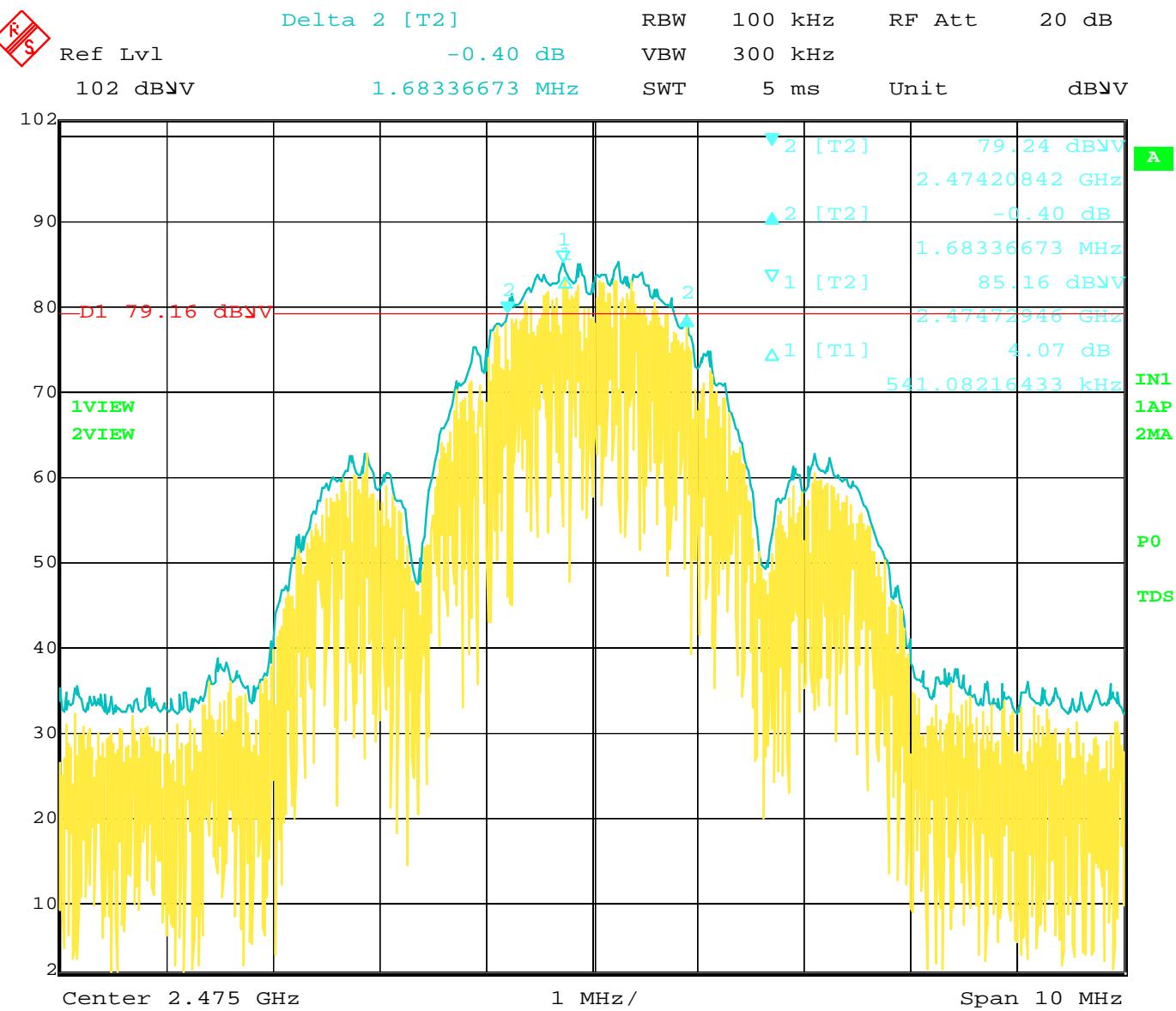
Date: 12.MAR.2015 15:47:40

-6 dB Bandwidth – Low Channel – Model: IS-204



Date: 12.MAR.2015 15:37:43

-6 dB Bandwidth – Middle Channel – Model: IS-204



Date: 12.MAR.2015 16:02:03

-6 dB Bandwidth – High Channel – Model: IS-204

SPECTRAL DENSITY OUTPUT
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FCC 15.247

 IBIS Networks
 InteliSocket
 Model: IS-201
 Configuration: Continuously Transmitting

Date: 03/05/2015

Lab: B

Tested By: Kyle Fujimoto

Spectral Density Test

Limit = +8 dBm

Freq. (MHz)	Level (dBuV)	Level (V/m)	Antenna Gain (dBi)	Numeric Gain	Power Output (Watts)	Power Output (mW)	Power Output (dBm)	Comments
2405	78.36	0.00828	2	1.584893	1.2975E-05	0.01298	-18.869	Vert. X-Axis
2440	77.02	0.0071	2	1.584893	9.5306E-06	0.00953	-20.209	Vert. X-Axis
2475	75.38	0.00587	2	1.584893	6.5331E-06	0.00653	-21.849	Vert. X-Axis
2405	76.36	0.00658	2	1.584893	8.1869E-06	0.00819	-20.869	Vert. Y-Axis
2440	74.02	0.00502	2	1.584893	4.7766E-06	0.00478	-23.209	Vert. Y-Axis
2475	73.28	0.00461	2	1.584893	4.0283E-06	0.00403	-23.949	Vert. Y-Axis
2405	74.91	0.00557	2	1.584893	5.863E-06	0.00586	-22.319	Vert. Z-Axis
2440	71.1	0.00359	2	1.584893	2.4385E-06	0.00244	-26.129	Vert. Z-Axis
2475	68.16	0.00256	2	1.584893	1.2391E-06	0.00124	-29.069	Vert. Z-Axis
2405	78.46	0.00838	2	1.584893	1.3278E-05	0.01328	-18.769	Horiz. X-Axis
2440	74.06	0.00505	2	1.584893	4.8208E-06	0.00482	-23.169	Horiz. X-Axis
2475	72.88	0.00441	2	1.584893	3.6738E-06	0.00367	-24.349	Horiz. X-Axis
2405	76.7	0.00684	2	1.584893	8.8536E-06	0.00885	-20.529	Horiz. Y-Axis
2440	72.62	0.00428	2	1.584893	3.4604E-06	0.00346	-24.609	Horiz. Y-Axis
2475	70.62	0.0034	2	1.584893	2.1833E-06	0.00218	-26.609	Horiz. Y-Axis
2405	81.9	0.01245	2	1.584893	2.9317E-05	0.02932	-15.329	Horiz. Z-Axis
2440	78.29	0.00821	2	1.584893	1.2768E-05	0.01277	-18.939	Horiz. Z-Axis
2475	77.15	0.0072	2	1.584893	9.8202E-06	0.00982	-20.079	Horiz. Z-Axis

Level in dBuV obtained by maximizing fundamental emission then setting the EMI Receiver to
 RBW = 3 kHz, VBW = 10 kHz, Span = 300 kHz, Sweep Time = 100 Seconds

The Power in Watts is obtained by the following Formula Below:

$$P = [(E^2 * D) / (30 * G)]$$

P = Power in Watts

E = The Measured Maximum Field Strength in V/m

G = The Numeric Gain of the Transmitting Antenna over an Isotropic Radiator

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Lake Forest Division
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FCC 15.247

IBIS networks
 InteliSocket
 Model: IS-204
 Configuration: Continuously Transmitting

Date: 03/12/2015
 Lab: B
 Tested By: Kenneth Lee

Spectral Density Test

Limit = +8 dBm

Freq. (MHz)	Level (dBuV)	Level (V/m)	Antenna Gain (dBi)	Numeric Gain	Power Output (Watts)	Power Output (mW)	Power Output (dBm)	Comments
2405	75.35	0.00585	2	1.584893	6.4882E-06	0.00649	-21.879	Vert. X-Axis
2440	74.79	0.00549	2	1.584893	5.7032E-06	0.0057	-22.439	Vert. X-Axis
2475	72.44	0.00419	2	1.584893	3.3199E-06	0.00332	-24.789	Vert. X-Axis
2405	75.86	0.00621	2	1.584893	7.2966E-06	0.0073	-21.369	Vert. Y-Axis
2440	72.84	0.00439	2	1.584893	3.6402E-06	0.00364	-24.389	Vert. Y-Axis
2475	72.79	0.00436	2	1.584893	3.5985E-06	0.0036	-24.439	Vert. Y-Axis
2405	70.76	0.00345	2	1.584893	2.2549E-06	0.00225	-26.469	Vert. Z-Axis
2440	68.21	0.00257	2	1.584893	1.2535E-06	0.00125	-29.019	Vert. Z-Axis
2475	70.81	0.00347	2	1.584893	2.281E-06	0.00228	-26.419	Vert. Z-Axis
2405	75.92	0.00625	2	1.584893	7.3981E-06	0.0074	-21.309	Horiz. X-Axis
2440	71.57	0.00379	2	1.584893	2.7172E-06	0.00272	-25.659	Horiz. X-Axis
2475	69.11	0.00285	2	1.584893	1.5421E-06	0.00154	-28.119	Horiz. X-Axis
2405	71.69	0.00384	2	1.584893	2.7933E-06	0.00279	-25.539	Horiz. Y-Axis
2440	73.42	0.00469	2	1.584893	4.1603E-06	0.00416	-23.809	Horiz. Y-Axis
2475	72.3	0.00412	2	1.584893	3.2146E-06	0.00321	-24.929	Horiz. Y-Axis
2405	77.45	0.00746	2	1.584893	1.0523E-05	0.01052	-19.779	Horiz. Z-Axis
2440	73.14	0.00454	2	1.584893	3.9005E-06	0.0039	-24.089	Horiz. Z-Axis
2475	69.85	0.00311	2	1.584893	1.8286E-06	0.00183	-27.379	Horiz. Z-Axis

Level in dBuV obtained by maximizing fundamental emission then setting the EMI Receiver to
 RBW = 3 kHz, VBW = 10 kHz, Span = 300 kHz, Sweep Time = 100 Seconds

The Power in Watts is obtained by the following Formula Below:

$$P = [(E^2 D)^2] / (30 * G)$$

P = Power in Watts

E = The Measured Maximum Field Strength in V/m

G = The Numeric Gain of the Transmitting Antenna over an Isotropic Radiator

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FCC 15.247

IBIS Networks
 InteliSocket
 Model: IS-201
 Configuration: Continuously Transmitting

Date: 03/03/2015
 Lab: D
 Tested By: Kyle Fujimoto

Peak Output Power

Freq. (MHz)	Level (dBuV)	Level (V/m)	Antenna Gain (dBi)	Numeric Gain	Power Output (Watts)	Power Output (mW)	Power Output (dBm)	Comments
2405	97.39	0.0740457	2	1.58489	0.0010378	1.03782	0.16	Vert. X-Axis
2440	95.02	0.0563638	2	1.58489	0.0006013	0.60134	-2.21	Vert. X-Axis
2475	94.51	0.0531496	2	1.58489	0.0005347	0.53471	-2.72	Vert. X-Axis
2405	95.57	0.0600482	2	1.58489	0.0006825	0.68253	-1.66	Vert. Y-Axis
2440	93.41	0.0468274	2	1.58489	0.0004151	0.41507	-3.82	Vert. Y-Axis
2475	93.41	0.0468274	2	1.58489	0.0004151	0.41507	-3.82	Vert. Y-Axis
2405	93.29	0.0461849	2	1.58489	0.0004038	0.40376	-3.94	Vert. Z-Axis
2440	90.35	0.032923	2	1.58489	0.0002052	0.20517	-6.88	Vert. Z-Axis
2475	87.84	0.0246604	2	1.58489	0.0001151	0.11511	-9.39	Vert. Z-Axis
2405	96.05	0.06346	2	1.58489	0.0007623	0.76229	-1.18	Horiz. X-Axis
2440	93.59	0.0478079	2	1.58489	0.0004326	0.43263	-3.64	Horiz. X-Axis
2475	91.25	0.0365174	2	1.58489	0.0002524	0.25242	-5.98	Horiz. X-Axis
2405	95.35	0.0585464	2	1.58489	0.0006488	0.64882	-1.88	Horiz. Y-Axis
2440	92.16	0.0405509	2	1.58489	0.0003113	0.31126	-5.07	Horiz. Y-Axis
2475	92.13	0.040411	2	1.58489	0.0003091	0.30912	-5.10	Horiz. Y-Axis
2405	99.86	0.0984011	2	1.58489	0.0018328	1.83283	2.63	Horiz. Z-Axis
2440	96.81	0.0692628	2	1.58489	0.0009081	0.90807	-0.42	Horiz. Z-Axis
2475	95.35	0.0585464	2	1.58489	0.0006488	0.64882	-1.88	Horiz. Z-Axis
		0.000001						

The Power in Watts is obtained by the following Formula Below:

$$P = [(E^2 * D) / (30 * G)]$$

P = Power in Watts

E = The Measured Maximum Field Strength in V/m

G = The Numeric Gain of the Transmitting Antenna over an Isotropic Radiator

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FCC 15.247

IBIS Networks
InteliSocket
Model: IS-204
Configuration: Continuously Transmitting

Date: 03/04/2015
Lab: B
Tested By: Kenneth Lee

Peak Output Power

Freq. (MHz)	Level (dBuV)	Level (V/m)	Antenna Gain (dBi)	Numeric Gain	Power Output (Watts)	Power Output (mW)	Power Output (dBm)	Comments
2405	94.31	0.0519398	2	1.58489	0.0005106	0.51065	-2.92	Vert. X-Axis
2440	92.6	0.042658	2	1.58489	0.0003444	0.34445	-4.63	Vert. X-Axis
2475	88.74	0.0273527	2	1.58489	0.0001416	0.14162	-8.49	Vert. X-Axis
2405	93.92	0.0496592	2	1.58489	0.0004668	0.46679	-3.31	Vert. Y-Axis
2440	91.95	0.0395822	2	1.58489	0.0002966	0.29657	-5.28	Vert. Y-Axis
2475	88.74	0.0273527	2	1.58489	0.0001416	0.14162	-8.49	Vert. Y-Axis
2405	93.58	0.0477529	2	1.58489	0.0004316	0.43164	-3.65	Vert. Z-Axis
2440	89.5	0.0298538	2	1.58489	0.0001687	0.1687	-7.73	Vert. Z-Axis
2475	86.43	0.0209652	2	1.58489	8.32E-05	0.0832	-10.80	Vert. Z-Axis
2405	93.44	0.0469894	2	1.58489	0.0004179	0.41795	-3.79	Horiz. X-Axis
2440	88.35	0.0261517	2	1.58489	0.0001295	0.12946	-8.88	Horiz. X-Axis
2475	85.44	0.0187068	2	1.58489	6.624E-05	0.06624	-11.79	Horiz. X-Axis
2405	93.35	0.046505	2	1.58489	0.0004094	0.40937	-3.88	Horiz. Y-Axis
2440	90.37	0.0329989	2	1.58489	0.0002061	0.20612	-6.86	Horiz. Y-Axis
2475	87.59	0.0239607	2	1.58489	0.0001087	0.10867	-9.64	Horiz. Y-Axis
2405	95.96	0.0628058	2	1.58489	0.0007467	0.74666	-1.27	Horiz. Z-Axis
2440	92.18	0.0406443	2	1.58489	0.0003127	0.3127	-5.05	Horiz. Z-Axis
2475	90.76	0.0345144	2	1.58489	0.0002255	0.22549	-6.47	Horiz. Z-Axis

The Power in Watts is obtained by the following Formula Below:

$$P = [(E^2 * D) / (30 * G)]$$

P = Power in Watts

E = The Measured Maximum Field Strength in V/m

G = The Numeric Gain of the Transmitting Antenna over an Isotropic Radiator

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BAND EDGES

DATA SHEETS

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COMPATIBLE ELECTRONICS

FCC 15.247

IBIS Networks

InteliSocket

Model: IS-201

Configuration: Continuously Transmitting

Low Channel

Band Edges

Date: 02/07/2015

Lab: D

Tested By: Kyle Fujimoto

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2405	99.86	H	--	--	Peak	1.25	135	Z-Axis Worst Case
								Fundamental @ 3 Meters
2341.46	53.09	H	74	-20.91	Peak	1.25	135	Z-Axis Worst Case
2341.26	44.01	H	54	-9.99	Avg	1.25	135	Band Edge
2475	95.35	H	--	--	Peak	1.25	135	Z-Axis Worst Case
								Fundamental @ 3 Meters
2483.5	49.8	H	74	-24.2	Peak	1.25	135	Z-Axis Worst Case
2483.5	38.45	H	54	-15.55	Avg	1.25	135	Band Edge
2405	97.39	V	--	--	Peak	1.5	180	X-Axis Worst Case
								Fundamental @ 3 Meters
2341.11	51.29	V	74	-22.71	Peak	1.5	180	X-Axis Worst Case
2341.11	41.91	V	54	-12.09	Avg	1.5	180	Band Edge
2475	94.51	V	--	--	Peak	1.5	0	X-Axis Worst Case
								Fundamental @ 3 Meters
2483.5	50.21	V	74	-23.79	Peak	1.5	0	X-Axis Worst Case
2483.5	39.61	V	54	-14.39	Avg	1.5	0	Band Edge



COMPATIBLE ELECTRONICS

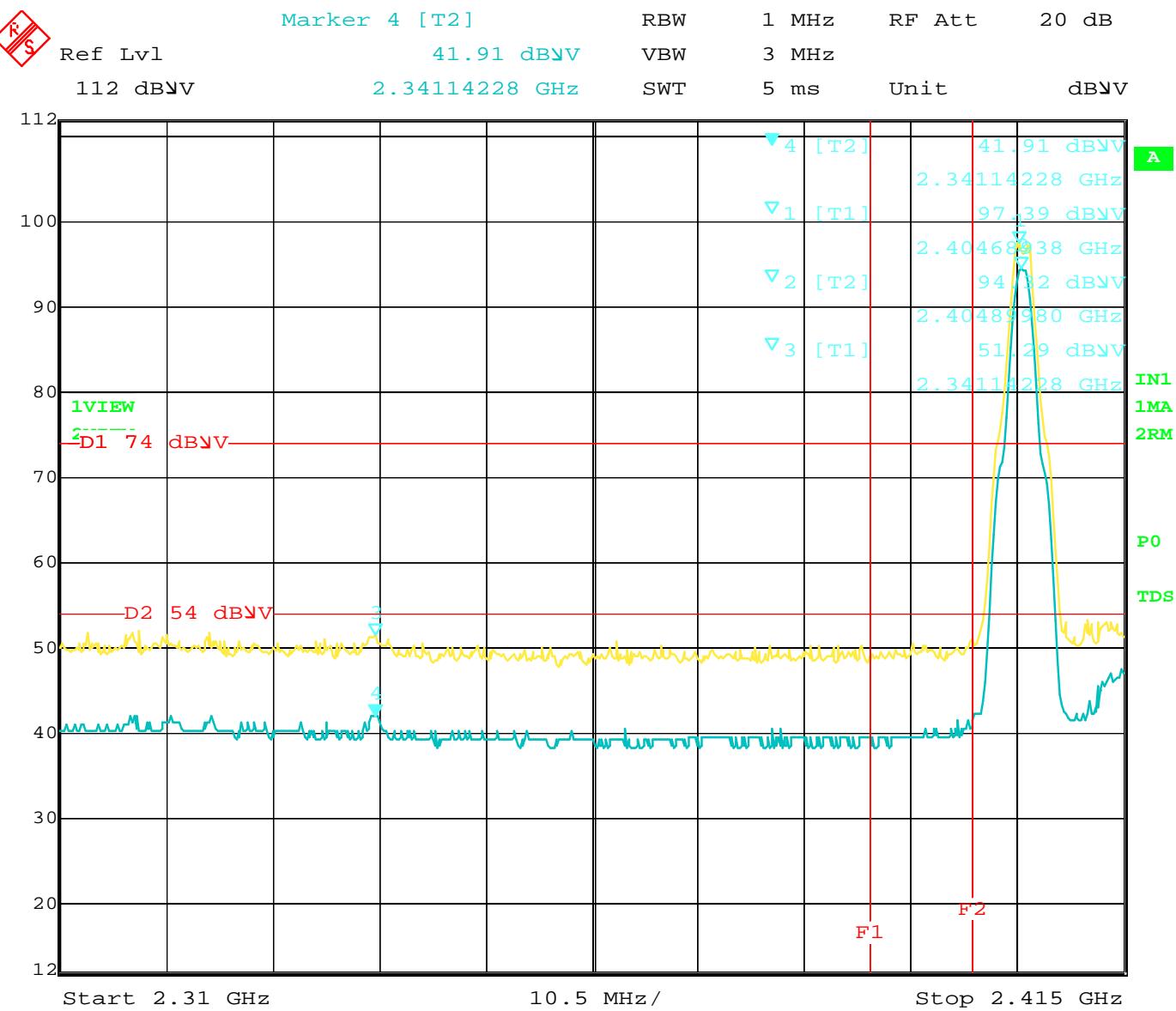
FCC 15.247
IBIS Networks
InteliSocket
Model: IS-204

Date: 03/09/2015

Lab: B

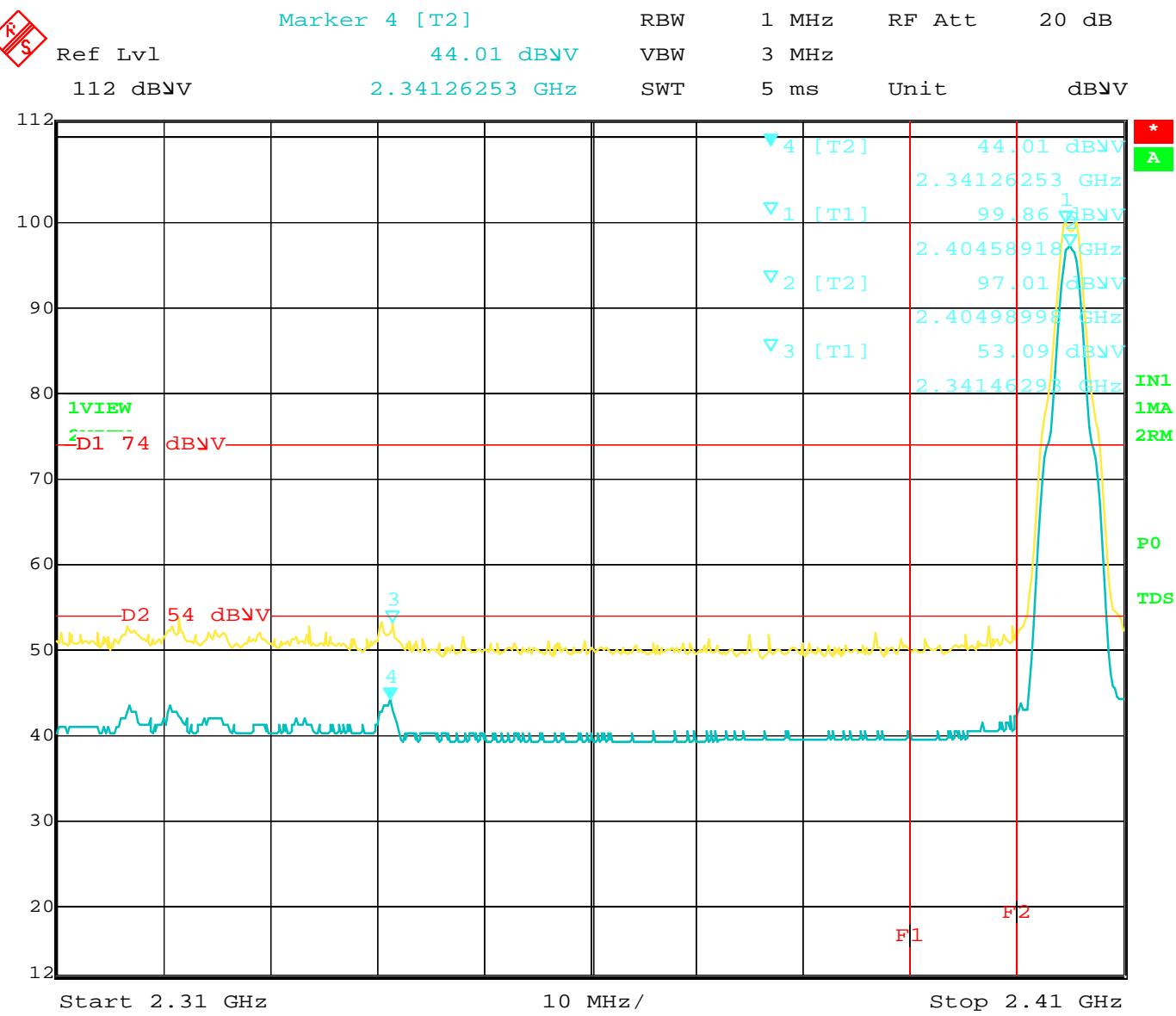
Tested By: Kenneth Lee

**Low Channel
Band Edges**



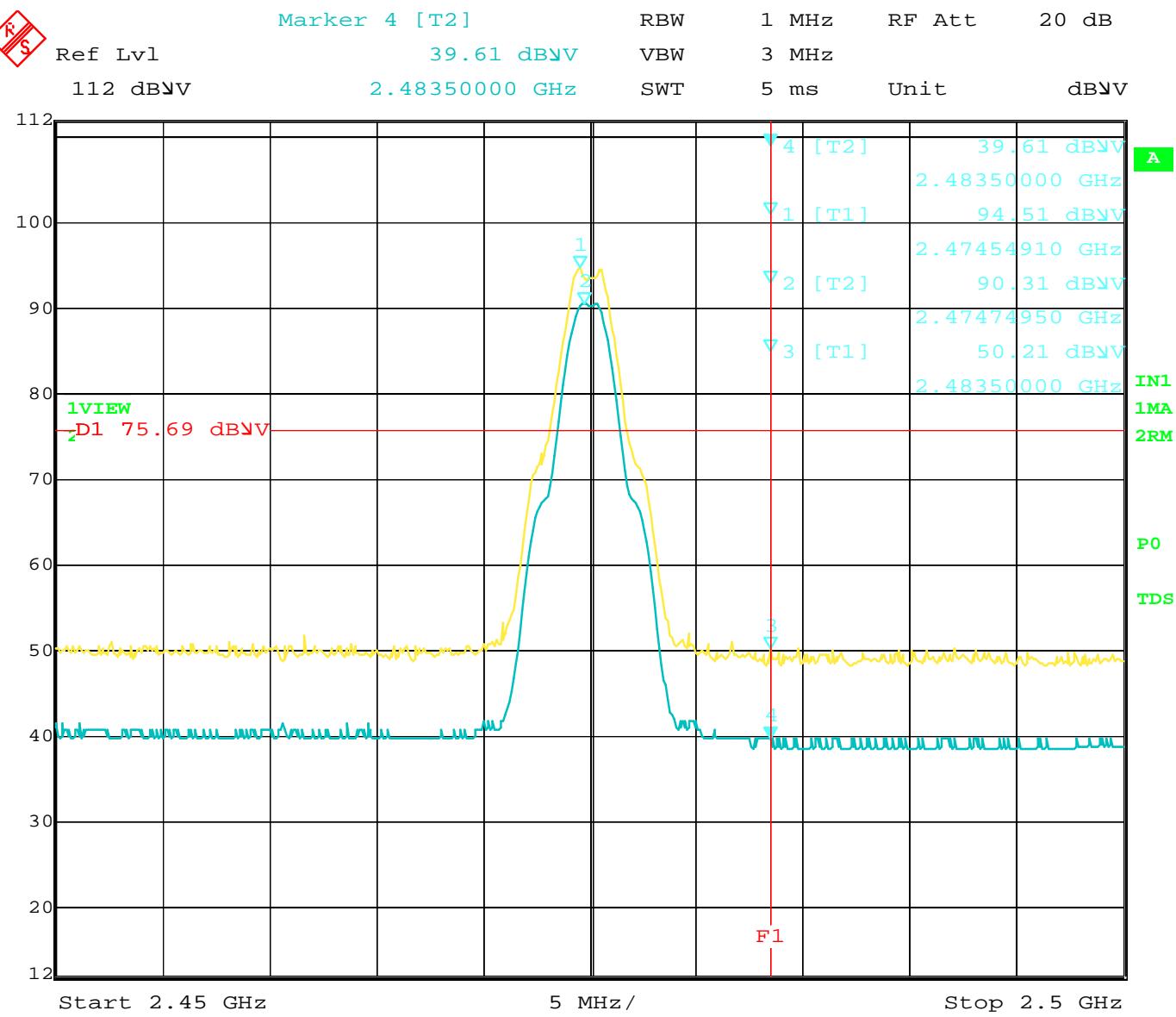
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Band Edge – Low Channel – Vertical – X-Axis – Worst Case – Model: IS-201



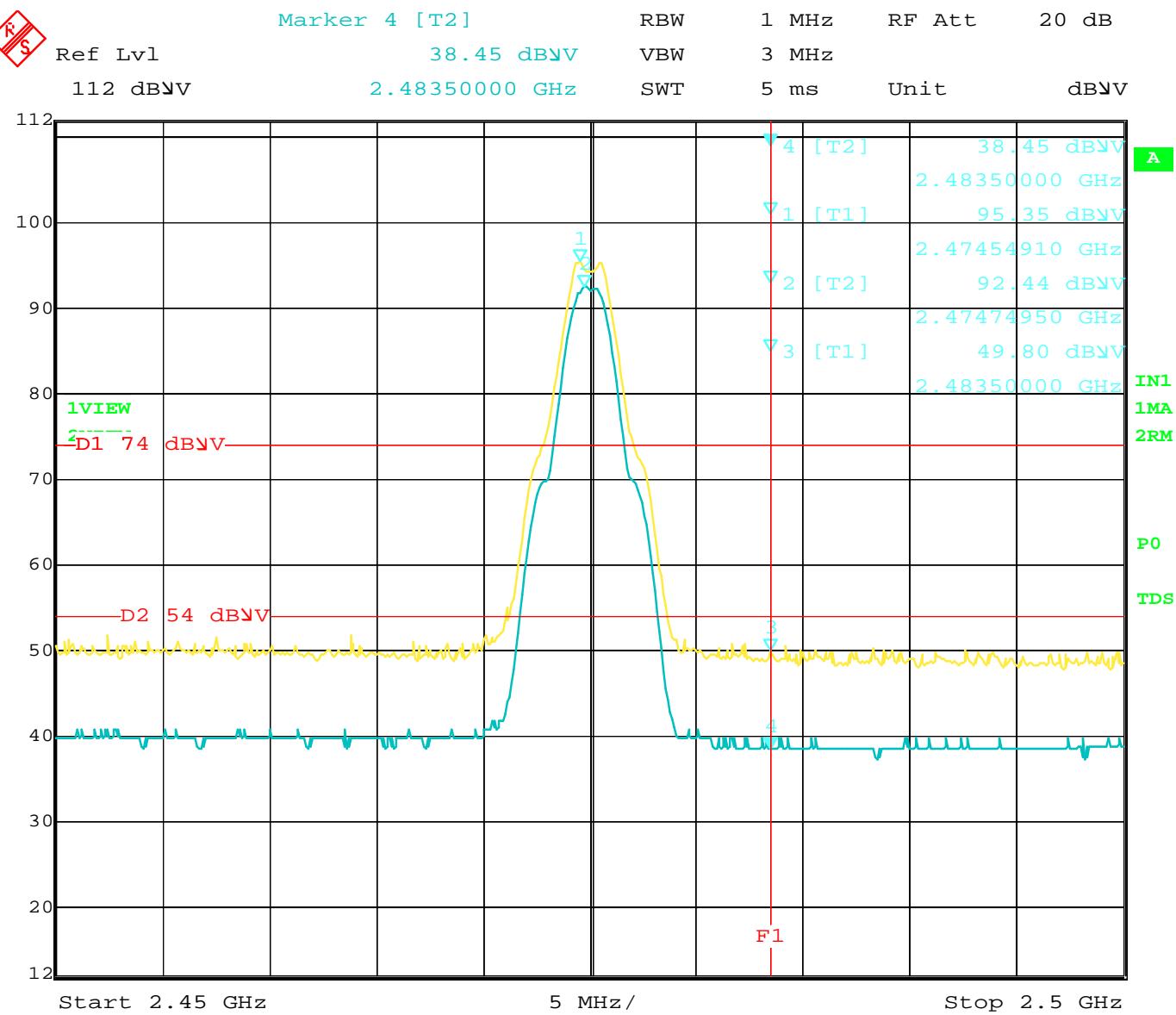
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Band Edge – Low Channel – Horizontal – Z-Axis – Worst Case – Model: IS-201



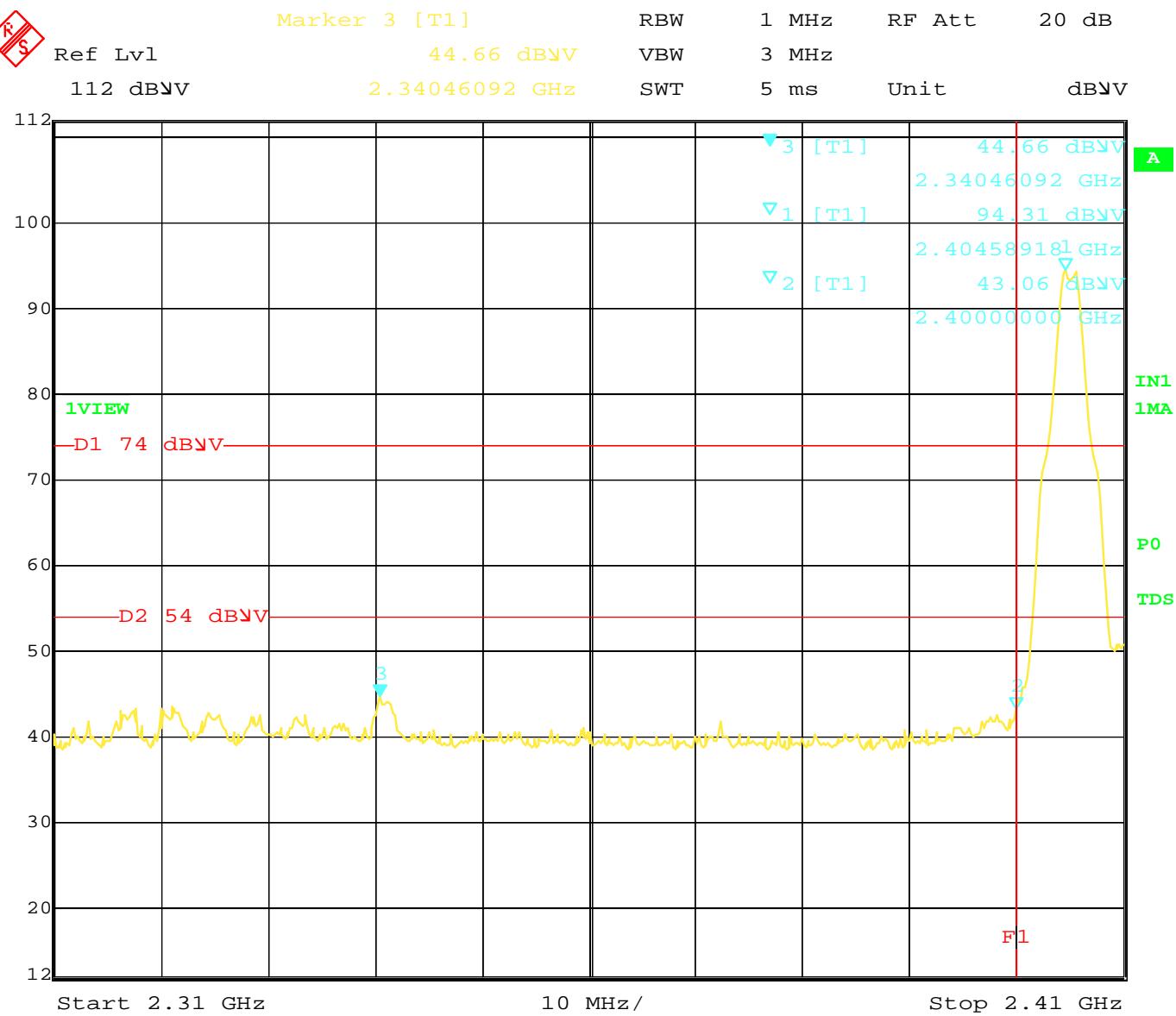
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Band Edge – High Channel – Vertical – X-Axis – Worst Case – Model: IS-201



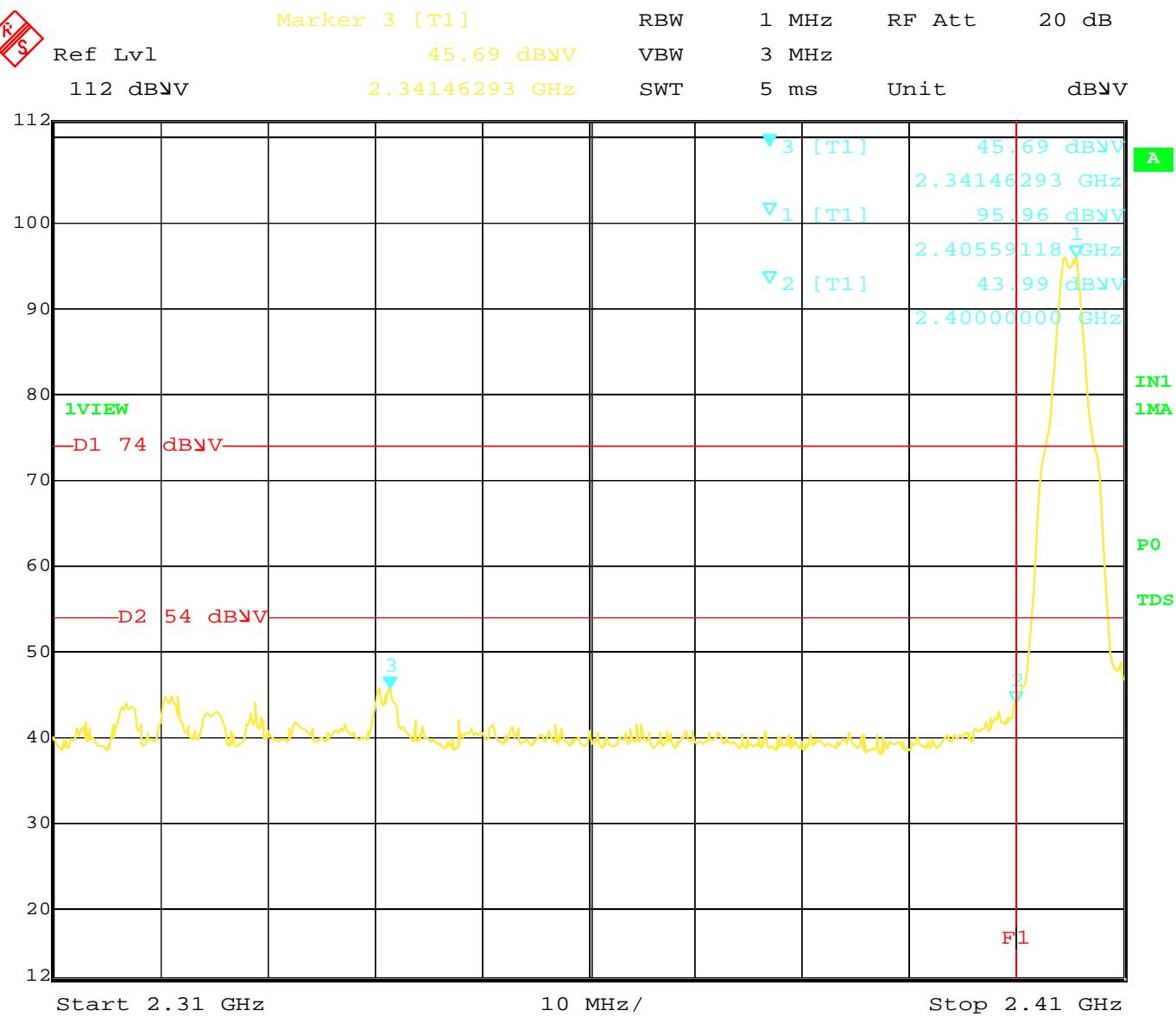
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Band Edge – High Channel – Horizontal – Z-Axis – Worst Case – Model: IS-201



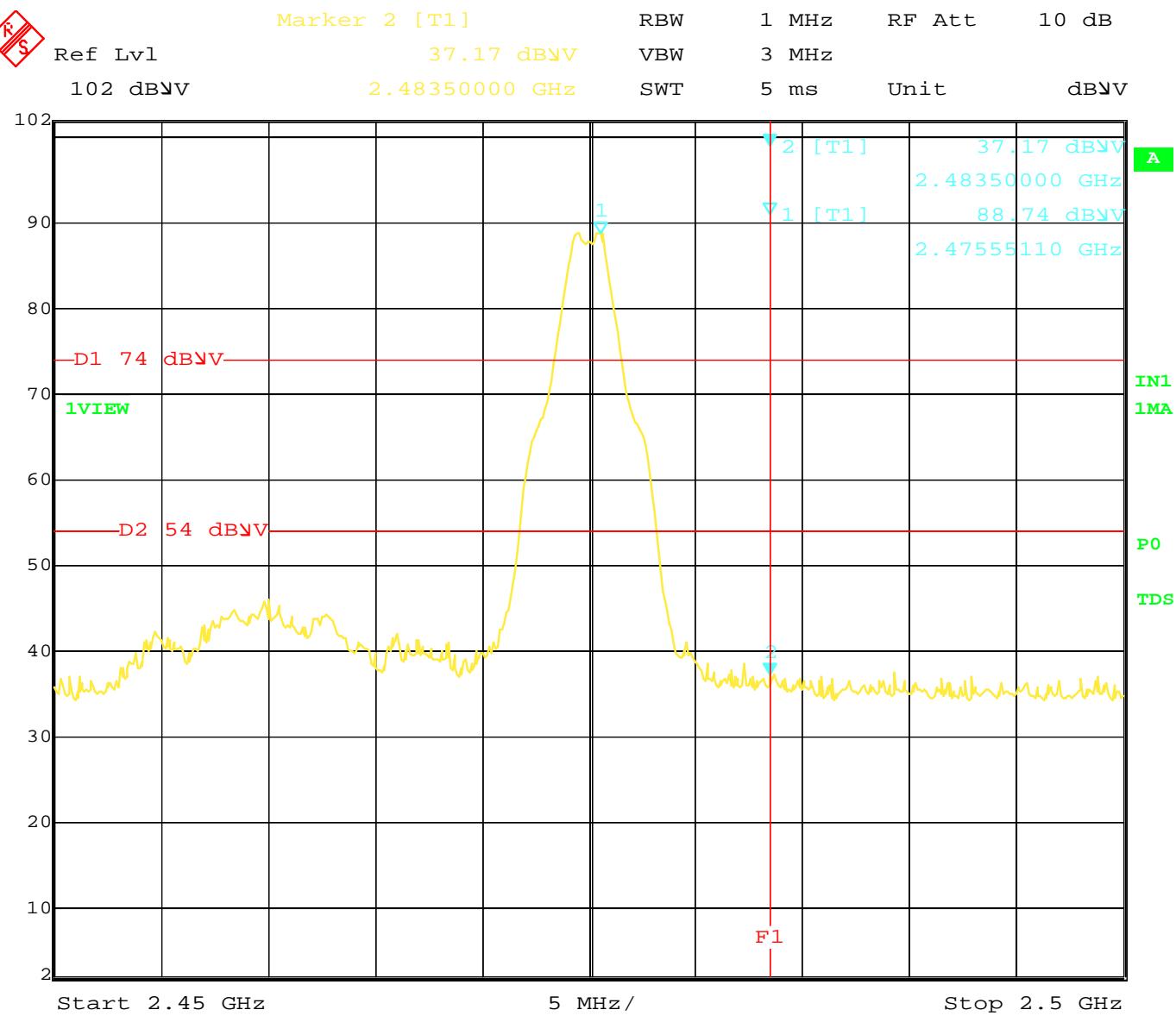
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Band Edge – Low Channel – Vertical – X-Axis – Worst Case – Model: IS-204



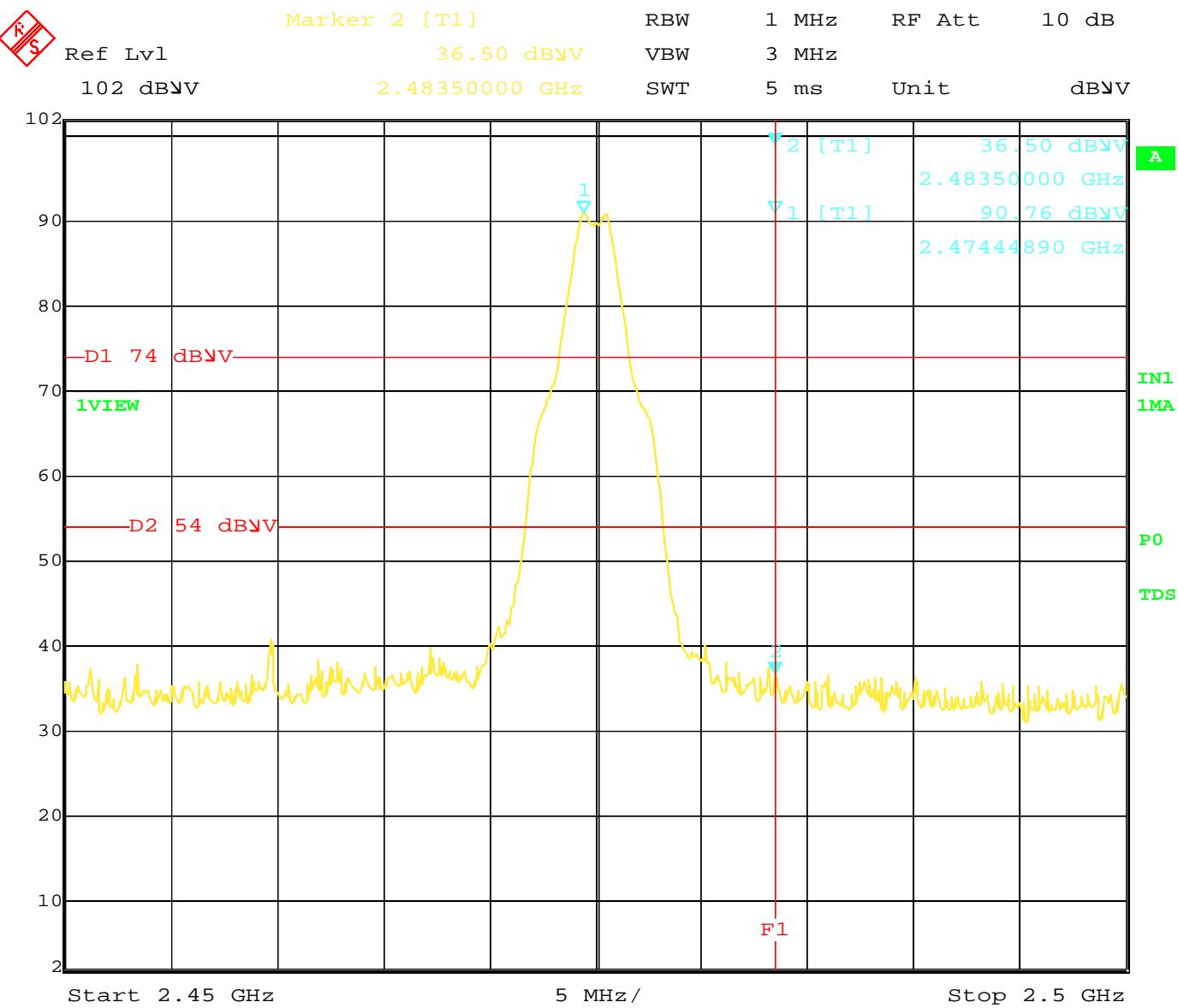
Date: 9.MAR.2015 13:10:45

Band Edge – Low Channel – Horizontal – Z-Axis – Worst Case – Model: IS-204



Date: 9.MAR.2015 14:08:56

Band Edge – High Channel – Vertical – X-Axis – Worst Case – Model: IS-204



Date: 9.MAR.2015 14:02:55

Band Edge – High Channel – Horizontal – Z-Axis – Worst Case – Model: IS-204

CONDUCTED EMISSIONS

DATA SHEETS

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COMPATIBLE ELECTRONICS

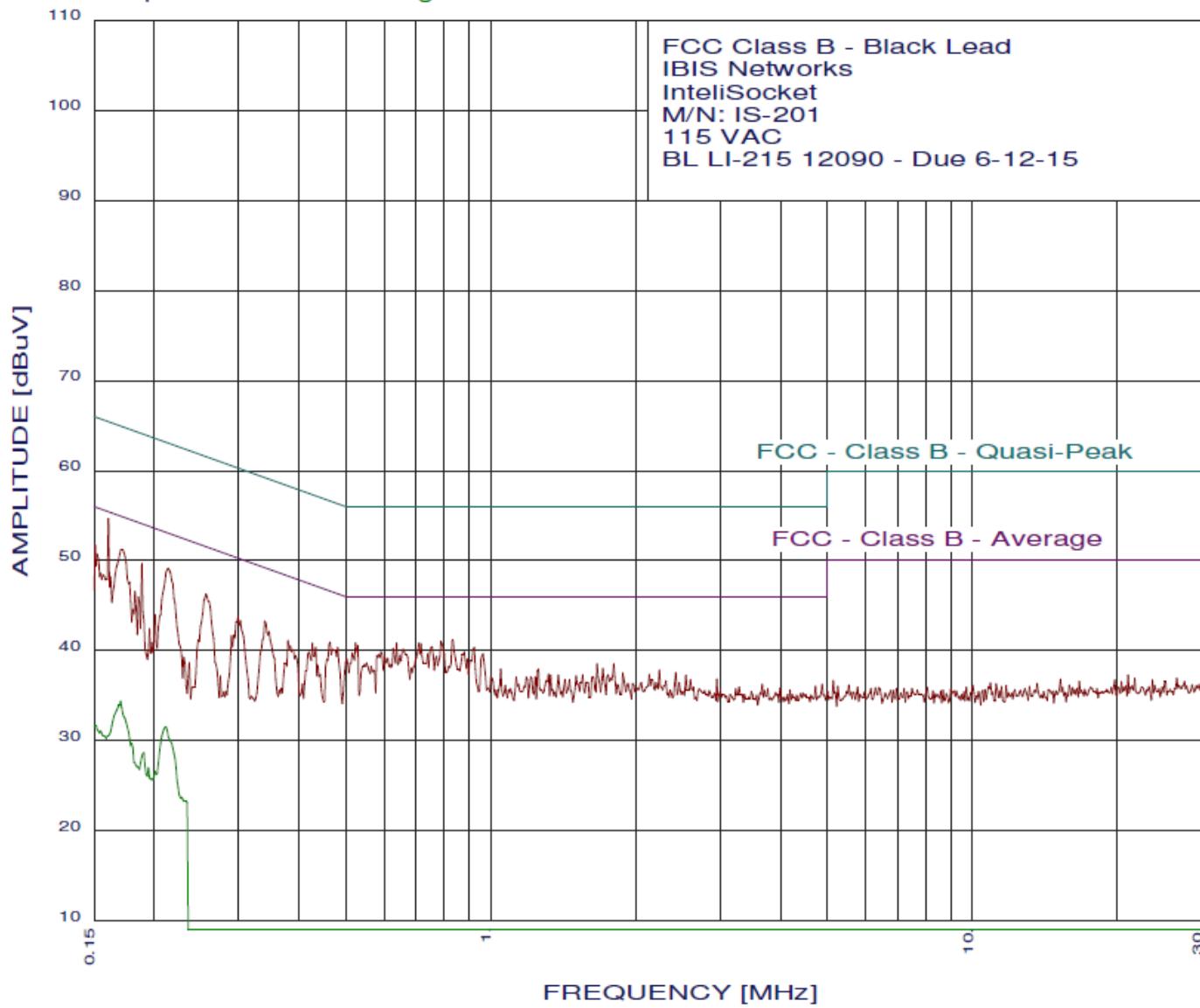
Report Number: **B50312B1**

FCC Part 15 Subpart B and FCC Section 15.247 Test Report
InteliSocket with RF Module
Models: IS-201 and IS-204 (Host Devices)

Page E76

EMISSION LEVEL [dBuV] PEAK Graph for Peak & Average

03/05/15
16:18:44



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03/05/15 16:18:44

FCC Class B - Black Lead

IBIS Networks

InteliSocket

M/N: IS-201

115 VAC

BL LI-215 12090 - Due 6-12-15

Test Engineer : Kenneth Lee

50 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.01 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.161	54.67	55.43	-0.76**
2	0.170	51.23	54.94	-3.71**
3	0.214	49.14	53.05	-3.90**
4	0.151	51.71	55.95	-4.24**
5	0.188	49.65	54.10	-4.45**
6	0.831	41.14	46.00	-4.86
7	0.788	41.04	46.00	-4.96
8	0.524	40.84	46.00	-5.16
9	0.637	40.84	46.00	-5.16
10	0.709	40.84	46.00	-5.16
11	0.152	50.70	55.86	-5.16**
12	0.716	40.74	46.00	-5.26
13	0.256	46.28	51.55	-5.28
14	0.530	40.54	46.00	-5.46
15	0.755	40.44	46.00	-5.56
16	0.924	40.34	46.00	-5.66
17	0.464	40.93	46.62	-5.69
18	0.627	40.24	46.00	-5.76
19	0.658	40.14	46.00	-5.86
20	0.339	43.25	49.22	-5.97
21	0.481	40.34	46.32	-5.98
22	0.592	39.84	46.00	-6.16
23	0.881	39.84	46.00	-6.16
24	0.516	39.74	46.00	-6.26
25	0.739	39.64	46.00	-6.36
26	0.963	39.64	46.00	-6.36
27	0.469	40.14	46.53	-6.40
28	0.586	39.54	46.00	-6.46
29	0.426	40.82	47.33	-6.51
30	0.580	39.44	46.00	-6.56
31	0.648	39.44	46.00	-6.56
32	0.299	43.71	50.28	-6.57
33	0.601	39.34	46.00	-6.66
34	0.771	39.34	46.00	-6.66
35	0.611	39.14	46.00	-6.86
36	0.433	40.32	47.19	-6.87
37	0.302	43.29	50.19	-6.89
38	0.347	42.12	49.04	-6.93
39	0.502	39.05	46.00	-6.95
40	0.895	39.04	46.00	-6.96
41	0.178	47.60	54.59	-6.99**
42	0.909	38.94	46.00	-7.06
43	0.155	48.59	55.73	-7.14**
44	0.162	48.16	55.34	-7.18**
45	0.379	41.11	48.29	-7.18
46	0.157	48.39	55.64	-7.26**
47	0.552	38.64	46.00	-7.36
48	1.800	38.52	46.00	-7.48
49	1.663	38.51	46.00	-7.49
50	0.159	47.98	55.51	-7.54**

** Please see average readings on previous graph and following data sheet.

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03/05/15 16:18:44

FCC Class B - Black Lead
IBIS Networks
InteliSocket
M/N: IS-201
115 VAC
BL LI-215 12090 - Due 6-12-15
Test Engineer : Kenneth Lee

10 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.01 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.170	34.38	54.94	-20.56
2	0.212	31.55	53.14	-21.59
3	0.152	31.68	55.91	-24.23
4	0.155	31.06	55.73	-24.67
5	0.180	29.71	54.50	-24.79
6	0.190	28.65	54.01	-25.36
7	0.195	26.97	53.84	-26.87
8	0.201	26.58	53.58	-27.00
9	0.198	25.80	53.71	-27.91
10	0.228	23.68	52.52	-28.84

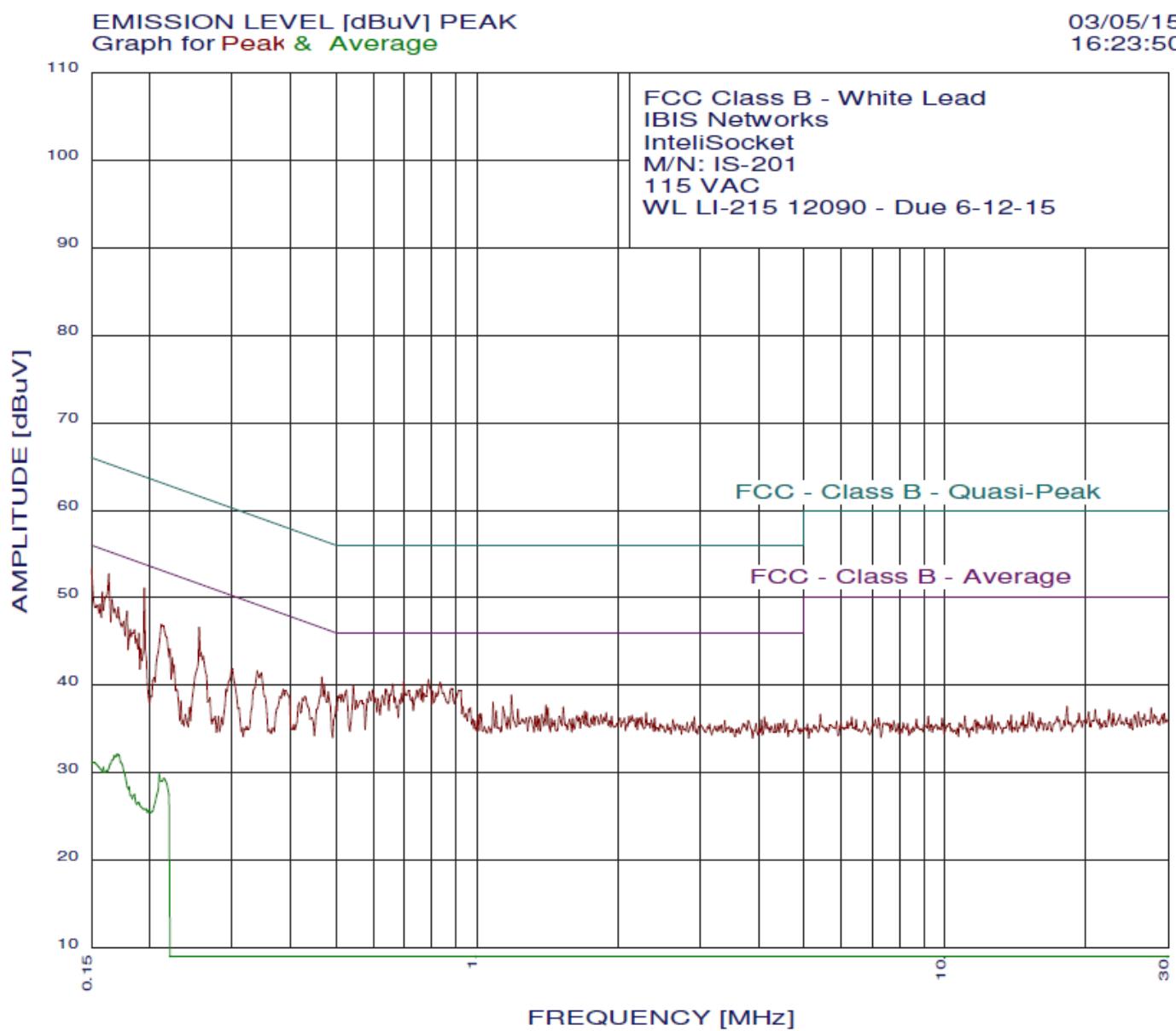


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03/05/15 16:23:50

FCC Class B - White Lead
IBIS Networks
InteliSocket
M/N: IS-201
115 VAC
WL LI-215 12090 - Due 6-12-15
Test Engineer : Kenneth Lee

50 highest peaks above -50.00 dB of FCC - Class B - Average limit line
Peak criteria : 0.01 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.163	52.72	55.29	-2.57**
2	0.195	51.11	53.84	-2.73**
3	0.158	50.64	55.56	-4.92**
4	0.255	46.62	51.60	-4.98
5	0.166	49.81	55.16	-5.35**
6	0.788	40.64	46.00	-5.36
7	0.698	40.44	46.00	-5.56
8	0.466	40.94	46.58	-5.64
9	0.835	40.34	46.00	-5.66
10	0.662	40.14	46.00	-5.86
11	0.763	40.04	46.00	-5.96
12	0.171	48.89	54.90	-6.00**
13	0.544	39.95	46.00	-6.05
14	0.179	48.47	54.54	-6.08**
15	0.212	46.95	53.14	-6.18**
16	0.169	48.70	55.03	-6.32**
17	0.471	40.14	46.49	-6.35
18	0.885	39.64	46.00	-6.36
19	0.157	49.25	55.64	-6.40**
20	0.637	39.54	46.00	-6.46
21	0.755	39.54	46.00	-6.46
22	0.527	39.45	46.00	-6.55
23	0.598	39.44	46.00	-6.56
24	0.924	39.44	46.00	-6.56
25	0.743	39.44	46.00	-6.56
26	0.154	49.15	55.78	-6.62**
27	0.713	39.34	46.00	-6.66
28	0.805	39.34	46.00	-6.66
29	0.589	39.24	46.00	-6.76
30	0.849	39.14	46.00	-6.86
31	0.818	39.14	46.00	-6.86
32	0.690	39.04	46.00	-6.96
33	0.771	39.04	46.00	-6.96
34	0.510	38.95	46.00	-7.05
35	0.516	38.95	46.00	-7.05
36	0.651	38.94	46.00	-7.06
37	0.481	39.24	46.32	-7.07
38	1.184	38.86	46.00	-7.14
39	0.627	38.84	46.00	-7.16
40	0.505	38.75	46.00	-7.25
41	0.728	38.64	46.00	-7.36
42	0.176	47.28	54.68	-7.40**
43	0.608	38.54	46.00	-7.46
44	0.669	38.54	46.00	-7.46
45	0.583	38.44	46.00	-7.56
46	0.614	38.44	46.00	-7.56
47	0.339	41.65	49.22	-7.57
48	0.347	41.42	49.04	-7.62
49	0.683	38.34	46.00	-7.66
50	0.552	38.24	46.00	-7.76

** Please see average readings on previous graph and following data sheet.

Brea Division	Agoura Division	Silverado Division	Lake Forest Division
114 Olinda Drive Brea, CA 92823 (714) 579-0500	2337 Troutdale Drive Agoura, CA 91301 (818) 597-0600	19121 El Toro Road Silverado, CA 92676 (949) 589-0700	20621 Pascal Way Lake Forest, CA 92630 (949) 587-0400



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FCC Class B - White Lead

IBIS Networks

InteliSocket

M/N: IS-201

115 VAC

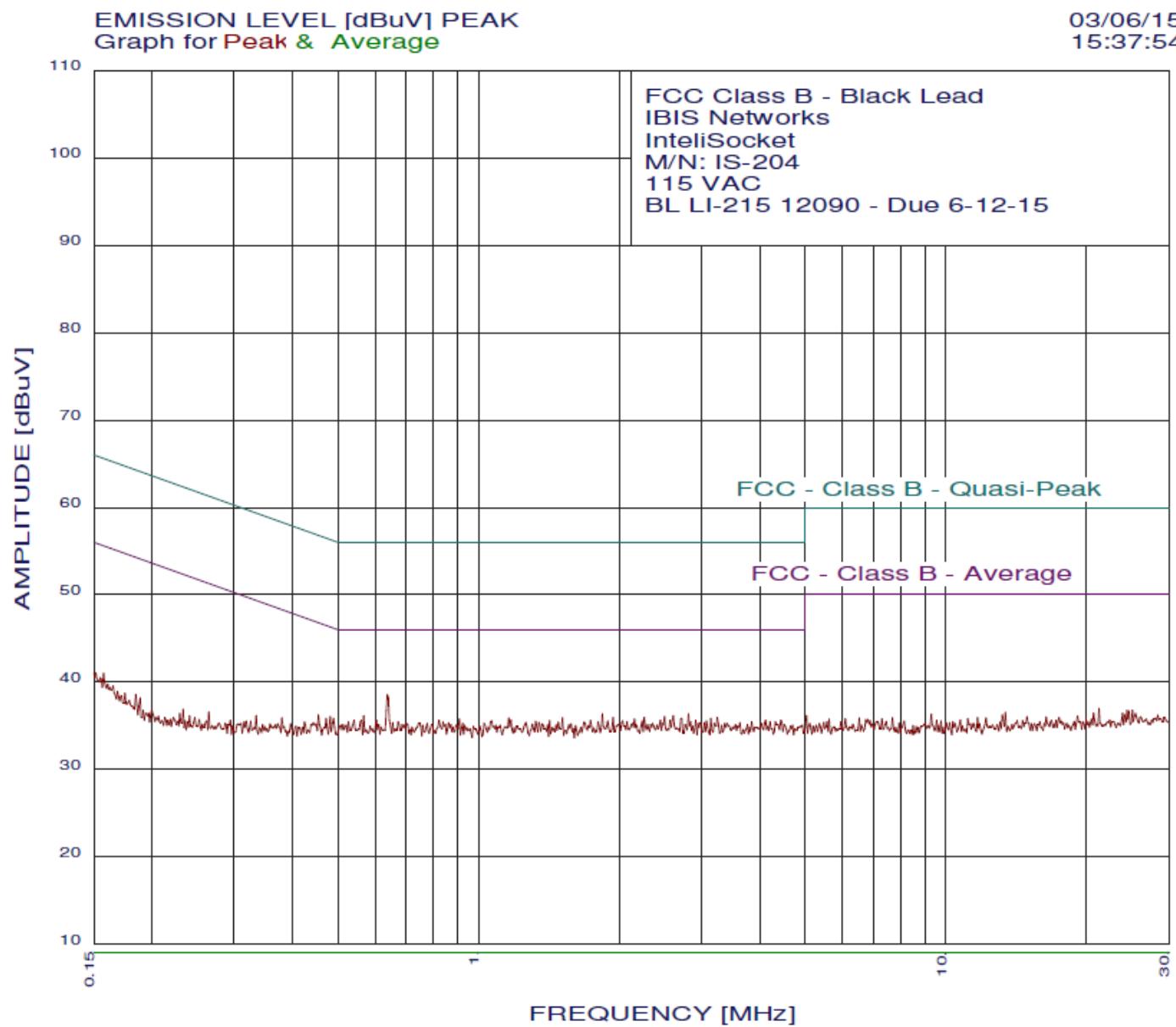
WL LI-215 12090 - Due 6-12-15

Test Engineer : Kenneth Lee

13 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.01 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.170	32.16	54.94	-22.78
2	0.172	32.03	54.86	-22.83
3	0.168	31.99	55.07	-23.09
4	0.210	29.85	53.23	-23.37
5	0.214	29.39	53.05	-23.66
6	0.159	30.64	55.51	-24.88
7	0.162	30.24	55.38	-25.14
8	0.181	28.39	54.46	-26.07
9	0.185	27.54	54.24	-26.69
10	0.189	26.62	54.06	-27.44
11	0.197	25.86	53.75	-27.89
12	0.195	25.87	53.84	-27.97
13	0.199	25.69	53.67	-27.98



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FCC Class B - Black Lead

IBIS Networks

InteliSocket

M/N: IS-204

115 VAC

BL LI-215 12090 - Due 6-12-15

Test Engineer : Kenneth Lee

50 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.01 dB, Curve : Peak

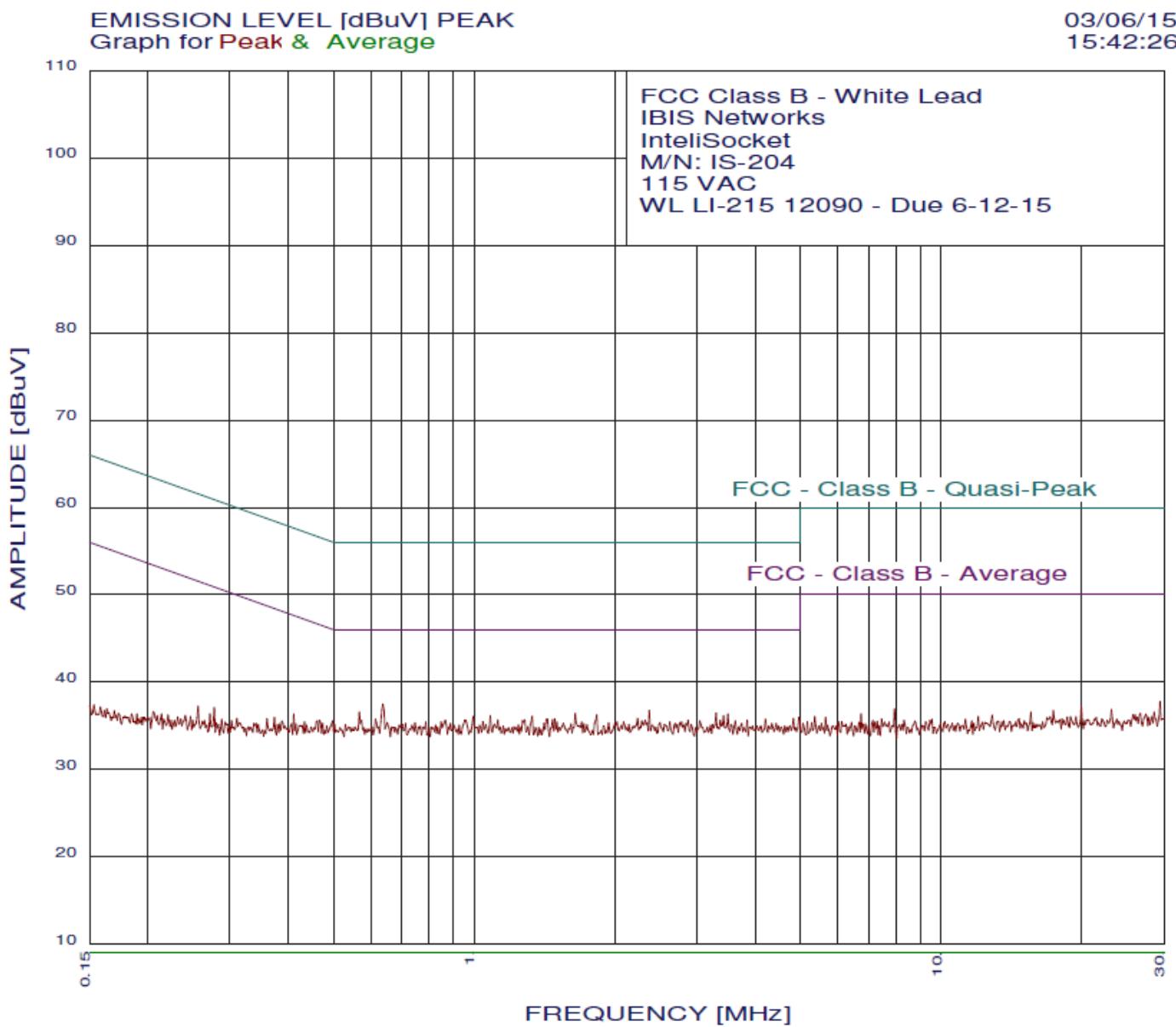
Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.637	38.54	46.00	-7.46
2	2.811	36.34	46.00	-9.66
3	1.840	36.32	46.00	-9.68
4	0.567	36.14	46.00	-9.86
5	2.610	36.14	46.00	-9.86
6	2.501	36.04	46.00	-9.96
7	3.243	35.94	46.00	-10.06
8	2.262	35.94	46.00	-10.06
9	1.939	35.93	46.00	-10.07
10	1.512	35.89	46.00	-10.11
11	1.160	35.86	46.00	-10.14
12	3.141	35.84	46.00	-10.16
13	2.722	35.84	46.00	-10.16
14	2.156	35.74	46.00	-10.26
15	0.909	35.74	46.00	-10.26
16	0.481	36.04	46.32	-10.28
17	0.489	35.84	46.18	-10.34
18	1.172	35.66	46.00	-10.34
19	4.432	35.65	46.00	-10.35
20	4.114	35.65	46.00	-10.35
21	0.541	35.64	46.00	-10.36
22	0.561	35.64	46.00	-10.36
23	0.605	35.64	46.00	-10.36
24	2.916	35.64	46.00	-10.36
25	2.568	35.64	46.00	-10.36
26	2.449	35.64	46.00	-10.36
27	0.822	35.64	46.00	-10.36
28	1.735	35.61	46.00	-10.39
29	1.419	35.58	46.00	-10.42
30	1.066	35.55	46.00	-10.45
31	3.075	35.54	46.00	-10.46
32	2.238	35.54	46.00	-10.46
33	2.034	35.54	46.00	-10.46
34	1.889	35.53	46.00	-10.47
35	1.325	35.47	46.00	-10.53
36	4.316	35.45	46.00	-10.55
37	4.204	35.45	46.00	-10.55
38	3.841	35.44	46.00	-10.56
39	0.527	35.44	46.00	-10.56
40	2.840	35.44	46.00	-10.56
41	0.672	35.44	46.00	-10.56
42	2.077	35.44	46.00	-10.56
43	0.839	35.44	46.00	-10.56
44	0.454	36.23	46.80	-10.57
45	1.800	35.42	46.00	-10.58
46	1.680	35.41	46.00	-10.59
47	1.480	35.39	46.00	-10.61
48	1.345	35.37	46.00	-10.63
49	1.262	35.37	46.00	-10.63
50	0.471	35.84	46.49	-10.65

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FCC Class B - White Lead

IBIS Networks

InteliSocket

M/N: IS-204

115 VAC

WL LI-215 12090 - Due 6-12-15

Test Engineer : Kenneth Lee

50 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 0.01 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.637	37.44	46.00	-8.56
2	2.371	36.74	46.00	-9.26
3	0.567	36.54	46.00	-9.46
4	3.294	36.44	46.00	-9.56
5	1.646	36.40	46.00	-9.60
6	3.492	36.34	46.00	-9.66
7	1.830	36.22	46.00	-9.78
8	1.083	36.15	46.00	-9.85
9	3.419	36.14	46.00	-9.86
10	1.331	36.07	46.00	-9.93
11	0.995	36.04	46.00	-9.96
12	4.954	35.94	46.00	-10.06
13	4.825	35.84	46.00	-10.16
14	2.238	35.84	46.00	-10.16
15	1.488	35.79	46.00	-10.21
16	1.434	35.78	46.00	-10.22
17	0.614	35.74	46.00	-10.26
18	4.204	35.74	46.00	-10.26
19	1.472	35.69	46.00	-10.31
20	1.283	35.67	46.00	-10.33
21	1.124	35.65	46.00	-10.35
22	0.573	35.64	46.00	-10.36
23	3.841	35.64	46.00	-10.36
24	3.365	35.64	46.00	-10.36
25	2.870	35.64	46.00	-10.36
26	2.322	35.64	46.00	-10.36
27	0.867	35.64	46.00	-10.36
28	1.269	35.57	46.00	-10.43
29	3.624	35.54	46.00	-10.46
30	3.043	35.54	46.00	-10.46
31	2.286	35.54	46.00	-10.46
32	0.958	35.54	46.00	-10.46
33	0.497	35.55	46.05	-10.50
34	1.043	35.44	46.00	-10.56
35	2.781	35.44	46.00	-10.56
36	2.624	35.44	46.00	-10.56
37	2.089	35.44	46.00	-10.56
38	2.023	35.44	46.00	-10.56
39	0.849	35.44	46.00	-10.56
40	0.788	35.44	46.00	-10.56
41	1.699	35.41	46.00	-10.59
42	1.504	35.39	46.00	-10.61
43	0.651	35.34	46.00	-10.66
44	2.751	35.34	46.00	-10.66
45	2.501	35.34	46.00	-10.66
46	2.346	35.34	46.00	-10.66
47	2.002	35.34	46.00	-10.66
48	0.747	35.34	46.00	-10.66
49	1.939	35.33	46.00	-10.67
50	1.552	35.29	46.00	-10.71

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