Synapsense Corporation

ADDENDUM TEST REPORT FOR 90296-14

SynapStamp Radio Modules, 11-0606-001 & 11-0606-011

Tested To The Following Standards:

FCC Part 15 Subpart C Sections 15.209 & 15.247
and
RSS-210 Version 7

Report No.: 90296-14A

Date of issue: April 28, 2010

ACCREDITED

TESTING
CERT #803.01, 803.02, 803.05, 803.06

This test report bears the accreditation symbol indicating that the testing performed herein meets the test and reporting requirements of ISO/IEC 17025 under the applicable scope of EMC testing for CKC Laboratories, Inc.

We strive to create long-term, trust based relationships by providing sound, adaptive, customer first testing services. We embrace each of our customers' unique EMC challenges, not as an interruption to set processes, but rather as the reason we are in business.

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ADMINISTRATIVE INFORMATION

Test Report Information

REPORT PREPARED FOR:

Synapsense Corporation
2365 Iron Point Road, Suite 100
Folsom, CA 95630

Representative: Pat Weston
Customer Reference Number: 9742

REPORT PREPARED BY:

Dianne Dudley
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Project Number: 90296

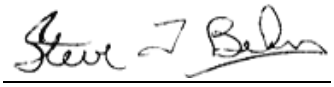
DATE OF EQUIPMENT RECEIPT: February 2, 2010
DATE(S) OF TESTING: February 2 - 8, 2010

Revision History

Original: To test the SynapStamp Radio Modules, 11-0606-001 & 11-0606-011 to the standards FCC Part 15 Subpart C Sections 15.207 & 15.247
Addendum A: To correct an error on the front of the report from 15.207 to 15.209, to add the Customer Supplied PCB as a peripheral during testing, to correct the number of operating channels from 1 to 83, include additional antenna information to section 15.203, added reference to 15.109 requirements in the test conditions for testing of 15.247(d), added antenna information to the test conditions in section 15.247(d) and replaced entire 15.247(d) with corrected data.

Report Authorization

The test data contained in this report documents the observed testing parameters pertaining to and are relevant for only the sample equipment tested in the agreed upon operational mode(s) and configuration(s) as identified herein. Compliance assessment remains the client's responsibility. This report may not be used to claim product endorsement by A2LA or any government agencies. This test report has been authorized for release under quality control from CKC Laboratories, Inc.



Steve Behm
Director of Quality Assurance & Engineering Services
CKC Laboratories, Inc.

Test Facility Information

Our laboratories are configured to effectively test a wide variety of product types. CKC utilizes first class test equipment, anechoic chambers, data acquisition and information services to create accurate, repeatable and affordable test results.

TEST LOCATION(S):
CKC Laboratories, Inc.
5046 Sierra Pines Drive
Mariposa, CA 95338

Site Registration & Accreditation Information

Location	Japan	Canada	FCC
Mariposa A	R-563, C-578 & T-1492	3082A-2	90477

SUMMARY OF RESULTS

Standard / Specification: FCC Part 15 Subpart C

Description	Test Procedure/Method	Results
Occupied Bandwidth	FCC Part 15 Subpart C Section 15.247(a)(2)	Pass
Peak Power	FCC Part 15 Subpart C Section 15.247(b)(3)	Pass
Spurious Conducted Emissions	FCC Part 15 Subpart C Section 15.247(d)	Pass
Spurious Radiated Emissions	FCC Part 15 Subpart C Section 15.209 / 15.247(d)	Pass
Band Edge	FCC Part 15 Subpart C Section 15.247(d)	Pass
Peak Power Spectral Density	FCC Part 15 Subpart C Section 15.247(e)	Pass
99% Occupied Bandwidth	RSS-210 Version 7	Pass

Conditions During Testing

This list is a summary of the conditions noted for or modifications made to the equipment during testing.

Summary of Conditions
None

EQUIPMENT UNDER TEST (EUT)

EQUIPMENT UNDER TEST

SynapStamp Radio Module
Manuf: Synapsense Corporation
Model: 11-0606-011
Serial: NA

SynapStamp Radio Module
Manuf: Synapsense Corporation
Model: 11-0606-001
Serial: NA

PERIPHERAL DEVICES

The EUT was tested with the following peripheral device.

Customer Supplied PCB
Manuf: Synapsense Corporation
Model: NA
Serial: NA

FCC PART 15 SUBPART C

This report contains EMC emissions test results under United States Federal Communications Commission (FCC) 47 CRF 15C requirements for Unlicensed Radio Frequency Devices, Subpart C - Intentional Radiators.

Temperature And Humidity During Testing
The temperature during testing was within +15°C and + 35°C.
The relative humidity was between 20% and 75%.

15.31(e) Voltage Variations
Not applicable to this device because it is battery powered.

15.31(m) Number Of Channels
This device operates on 83 different channels.

15.33(a) Frequency Ranges Tested
15.209/15.225/15.247 Radiated Emissions: 9 kHz - 25 GHz

15.203 Antenna Requirements

001 = Internal Antenna:
The antenna is an integral part of the EUT and is non-removable; therefore the EUT complies with Section 15.203 of the FCC rules. Internal antenna's gain is less than 2.2dBi.

011 = External Antenna:
The antenna is external to the EUT with a MMCX connector with a 2.2 dBi antenna.

EUT Operating Frequency
The EUT was operating at 2405-2480 MHz

15.247(a)(2) Occupied Bandwidth

Test Equipment				
Equipment	**Serial**	**Cal Date**	**Cal Due**	**Asset**
E4446A	US44300407	08/07/2008	08/07/2010	02660

Test Location: CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Synapsense Corporation**
Specification: **15.247(a)(2)**
Work Order #: **90296** Date: 2/3/2010
Test Type: **Radiated Scan** Time: 15:46:52
Equipment: **SynapStamp Radio Module**
Manufacturer: Synapsense Corporation Tested By: Chuck Kendall
Model: 11-0606-011
S/N: NA

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-011	NA

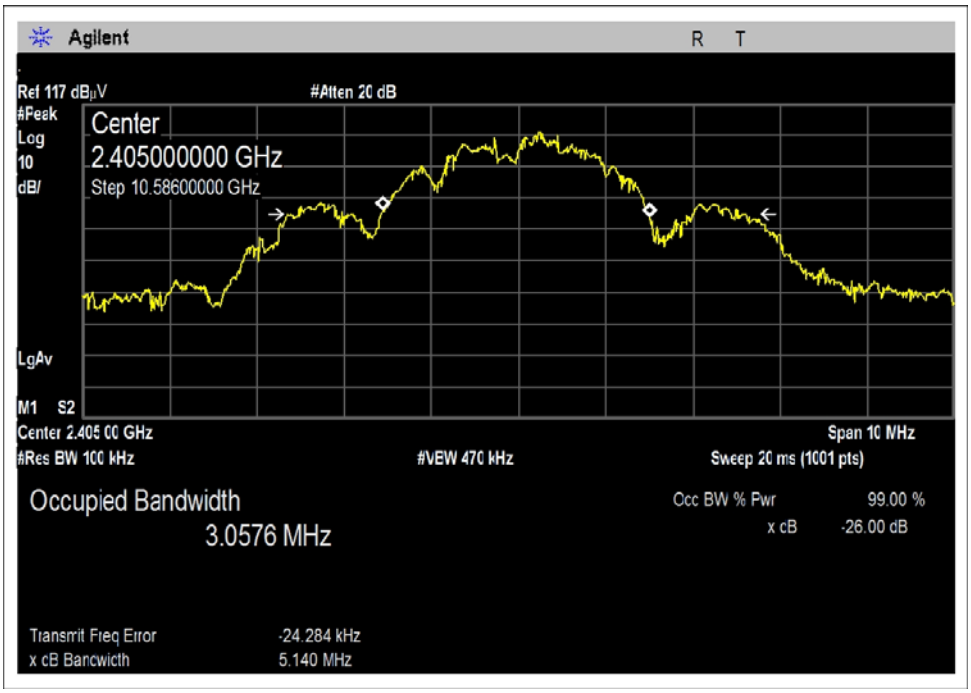
Test Conditions / Notes:

15.247(a)(2)Minimum 6 dB Bandwidth-Conducted
New batteries installed in +5dBm transceiver.
Frequencies of interest 2405-2480 MHz
70° Fahrenheit
35% Relative Humidity
Module is atop a plastic case. Antenna cable is directly connected to the S/A.

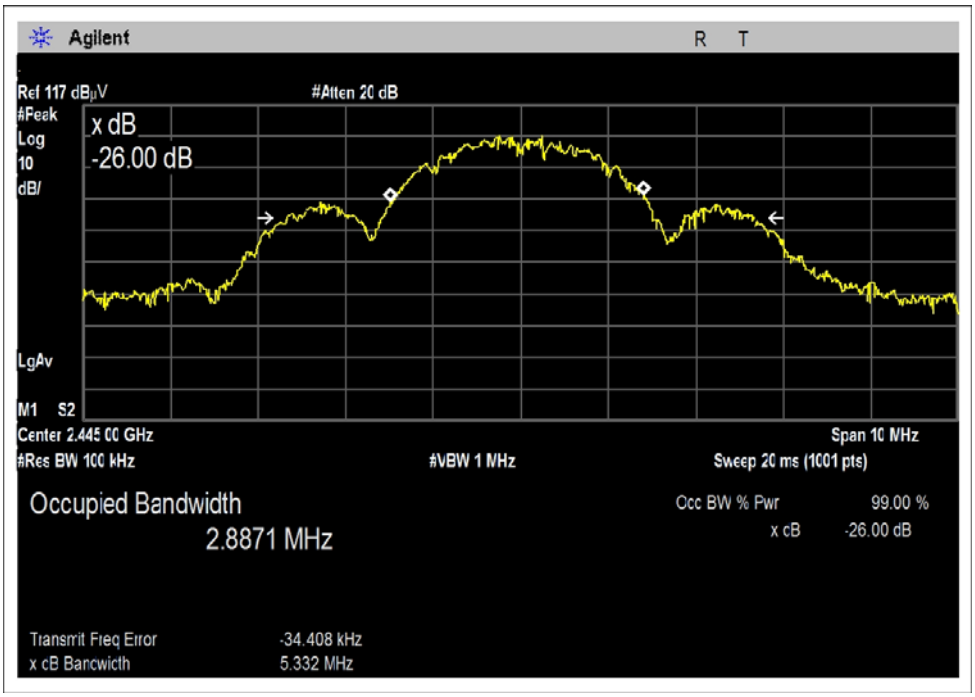
Test Data

Frequency (MHz)	6 BW (MHz)	99% BW (MHz)	26 dB BW (MHz)
2405	1.583	2.9023	5.140
2445	1.557	2.8480	5.332
2480	1.647	2.8435	5.191

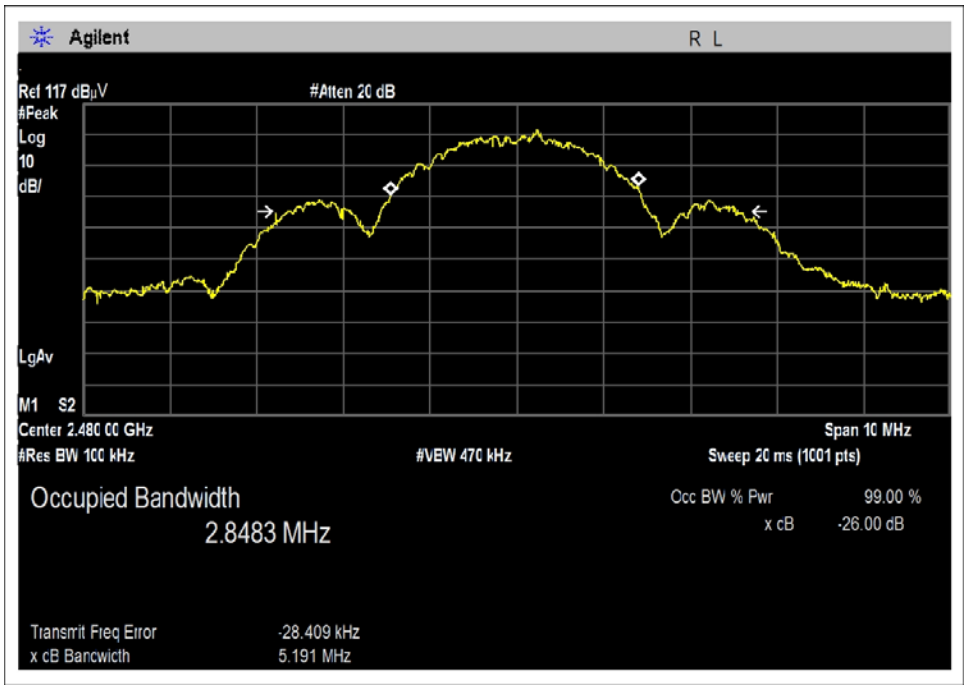
Test Plots



15.247 Occupied Bandwidth (-26dB)-Lo Channel



15.247 Occupied Bandwidth (-26dB)-Mid Channel



15.247 Occupied Bandwidth (-26dB)-High Channel

Test Setup Photos

15.247b)(3) Peak Power

Test Equipment				
Equipment	**Serial**	**Cal Date**	**Cal Due**	**Asset**
E4446A	US44300407	08/07/2008	08/07/2010	02660

Test Location: CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Synapsense Corporation**
Specification: **15.247(b)(3)**
Work Order #: **90296** Date: 2/3/2010
Test Type: **Maximized Emissions** Time: 15:46:52
Equipment: **SynapStamp Radio Module** Sequence#: 7
Manufacturer: Synapsense Corporation Tested By: Chuck Kendall
Model: 11-0606-011
S/N: NA

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-011	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

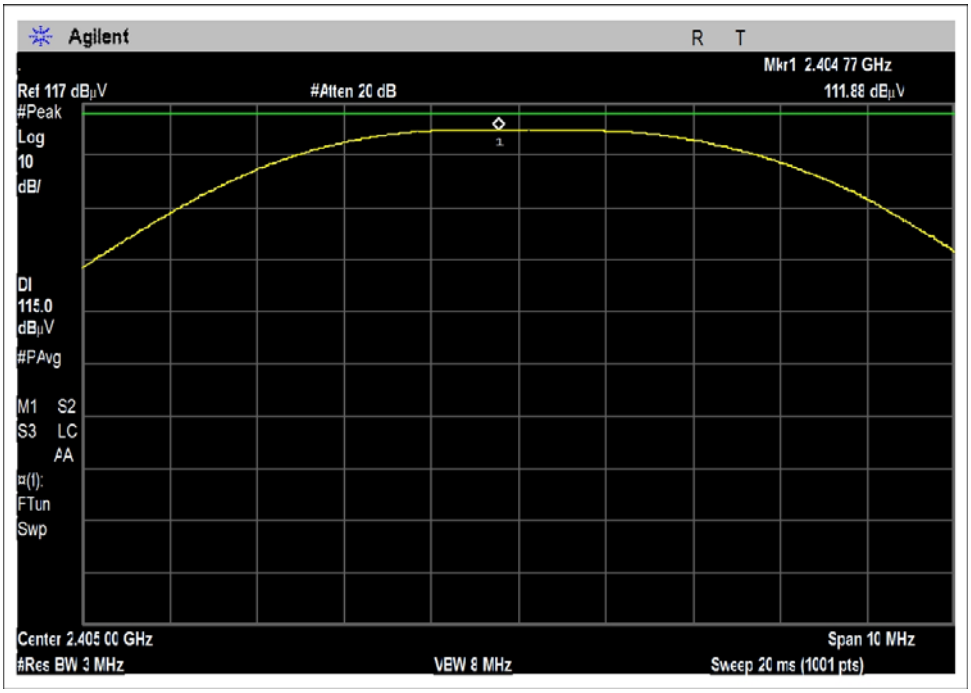
15.247(b)(3)Peak Power Output-Conducted
New batteries installed in +5dBm transceiver.
Frequencies of interest 2405-2480 MHz
70 ° Fahrenheit
35% Relative Humidity
Module is atop a plastic case. Antenna cable is directly connected to the S/A.
RBW = 3MHz
VBW = 8MHz
Span = 10MHz
Sweep time = auto

Test Data

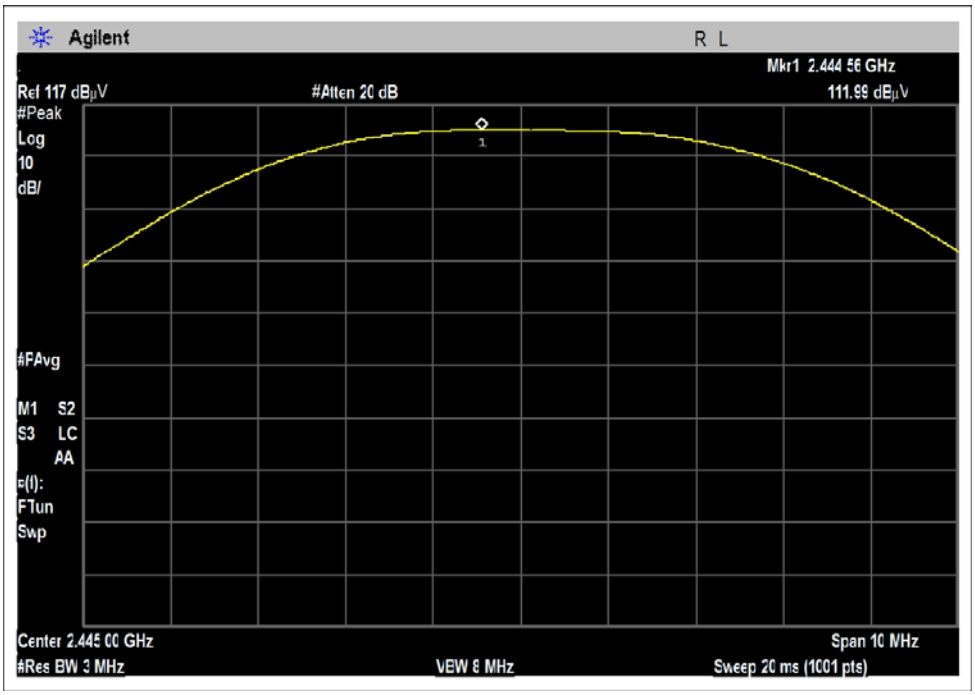
Measurement Data: Reading listed by order taken. Test Distance: None

Freq.	dBm	mWatt	Limit
2479.890M	4.9	3.09	1 Watt
2444.560M	5.0	3.16	1 Watt
2404.680M	5.0	3.16	1 Watt

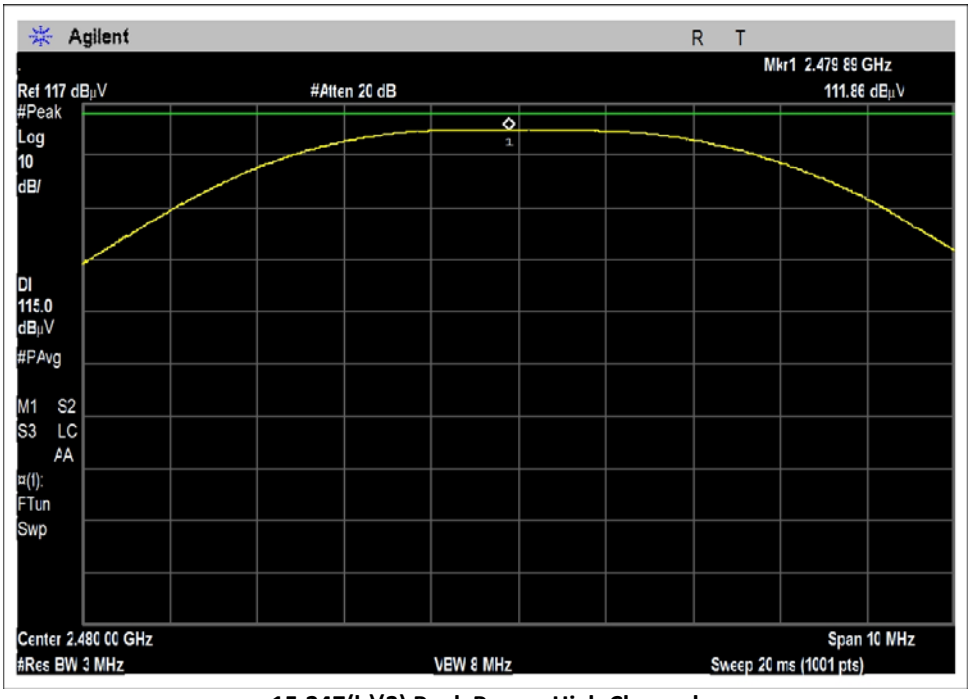
Test Data Plots



15.247(b)(3) Peak Power-Low Channel



15.247(b)(3) Peak Power-Mid Channel



15.247(b)(3) Peak Power-High Channel

Test Setup Photos

15.247(d) Spurious Conducted Emissions

Test Data Sheets

Test Location: CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer:	**Synapsense Corporation**		
Specification:	**15.247(d) SynapSense Cond Spurious**		
Work Order #:	**90296**	Date:	2/3/2010
Test Type:	**Radiated Scan**	Time:	14:45:23
Equipment:	**SynapStamp Radio Module**	Sequence#:	6
Manufacturer:	Synapsense Corporation	Tested By:	Chuck Kendall
Model:	11-0606-011		
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A	US44300407	08/07/2008	08/07/2010	02660

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-011	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

15.247(d) Spurious Emissions-Conducted
New batteries installed in +5dBm transceiver.
Frequencies of interest 2405-2480 MHz
70 ° Fahrenheit
35% Relative Humidity
Module is atop a plastic case. Antenna cable is directly connected to the S/A.
RBW = 100kHz
VBW = 300kHz
Spans: 9 kHz-30MHz; 30MHz-1GHz; 1-5GHz; 5-12.5 GHz; 12.5-25 GHz
Sweep time = auto

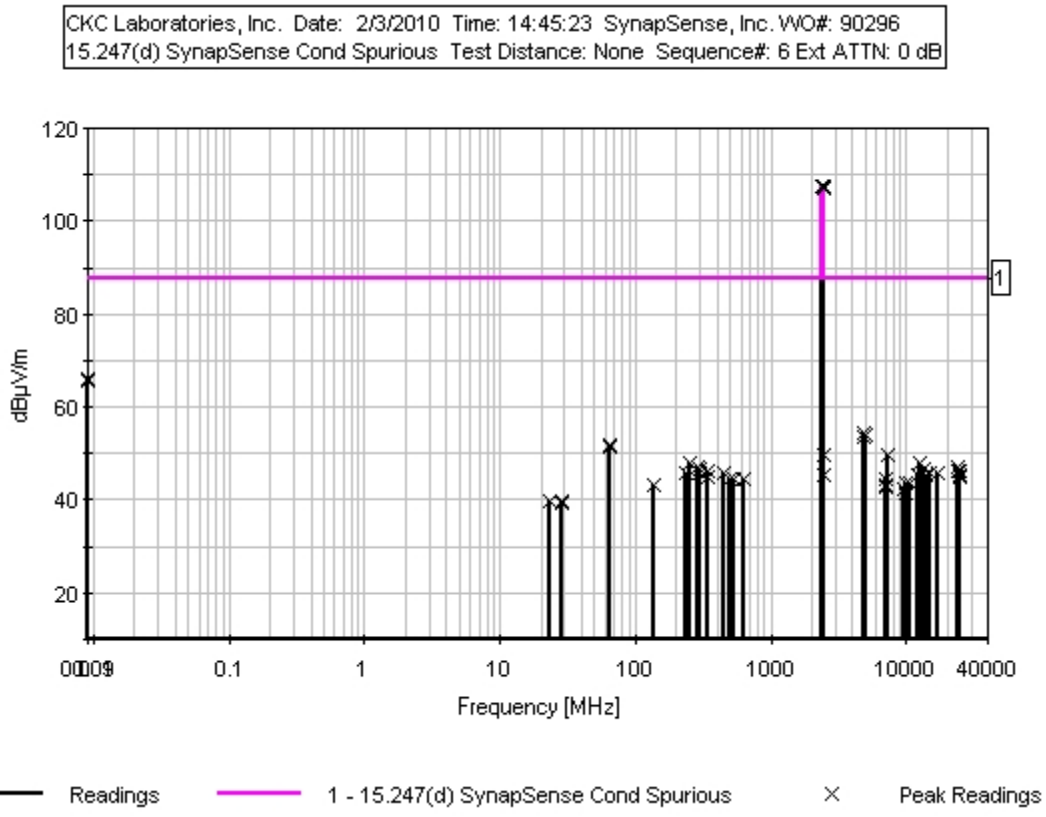
Transducer Legend:

Measurement Data: Reading listed by margin. Test Distance: None

#	Freq MHz	Rdng dBµV	dB	dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	2445.208M	107.6					+0.0	107.6	107.6 Mid Fundamental-2445 MHz	+0.0	None
2	2405.206M	107.5					+0.0	107.5	107.6 Lo Fundamental-2405 MHz	-0.1	None
3	2480.058M	107.1					+0.0	107.1	107.6 Hi Fundamental-2480 MHz	-0.5	None
4	9.000k	66.2					+0.0	66.2	87.6 Hi-Ch	-21.4	None
5	9.000k	66.1					+0.0	66.1	87.6 Mid Ch	-21.5	None
6	9.000k	65.8					+0.0	65.8	87.6 Lo Ch	-21.8	None
7	4888.000M	54.3					+0.0	54.3	87.6 Mid-Ch	-33.3	None
8	4960.000M	54.1					+0.0	54.1	87.6 Hi Ch	-33.5	None
9	4812.000M	53.6					+0.0	53.6	87.6 Lo Ch	-34.0	None
10	64.000M	51.8					+0.0	51.8	87.6 Hi-Ch	-35.8	None
11	64.000M	51.8					+0.0	51.8	87.6 Mid-Ch	-35.8	None
12	64.000M	51.2					+0.0	51.2	87.6 Lo Ch	-36.4	None
13	7332.500M	49.5					+0.0	49.5	87.6 Mid-Ch	-38.1	None
14	12402.500 M	48.1					+0.0	48.1	87.6 Hi Ch	-39.5	None
15	254.100M	47.8					+0.0	47.8	87.6 Hi-Ch	-39.8	None
16	24225.000 M	47.1					+0.0	47.1	87.6 Mid Ch	-40.5	None
17	289.000M	46.9					+0.0	46.9	87.6 Hi-Ch	-40.7	None
18	13662.500 M	46.6					+0.0	46.6	87.6 Mid Ch	-41.0	None
19	294.800M	46.6					+0.0	46.6	87.6 Lo Ch	-41.0	None
20	341.400M	46.4					+0.0	46.4	87.6 Hi-Ch	-41.2	None

21	24925.000 M	46.4		+0.0	46.4	87.6 Hi Ch	-41.2	None
22	24100.000 M	46.3		+0.0	46.3	87.6 Lo Ch	-41.3	None
23	25000.000 M	46.1		+0.0	46.1	87.6 Hi Ch	-41.5	None
24	14875.000 M	45.9		+0.0	45.9	87.6 Hi Ch	-41.7	None
25	234.700M	45.8		+0.0	45.8	87.6 Lo Ch	-41.8	None
26	17100.000 M	45.8		+0.0	45.8	87.6 Mid Ch	-41.8	None
27	446.100M	45.8		+0.0	45.8	87.6 Hi-Ch	-41.8	None
28	299.700M	45.6		+0.0	45.6	87.6 Mid-Ch	-42.0	None
29	12222.500 M	45.5		+0.0	45.5	87.6 Mid Ch	-42.1	None
30	13862.500 M	45.5		+0.0	45.5	87.6 Lo Ch	-42.1	None
31	2496.000M	45.5		+0.0	45.5	87.6 Mid-Ch	-42.1	None
32	24937.500 M	45.3		+0.0	45.3	87.6 Mid Ch	-42.3	None
33	25000.000 M	44.9		+0.0	44.9	87.6 Lo Ch	-42.7	None
34	338.500M	44.9		+0.0	44.9	87.6 Mid-Ch	-42.7	None
35	343.300M	44.8		+0.0	44.8	87.6 Lo Ch	-42.8	None
36	7100.000M	44.7		+0.0	44.7	87.6 Mid Ch	-42.9	None
37	490.800M	44.6		+0.0	44.6	87.6 Mid-Ch	-43.0	None
38	527.600M	44.6		+0.0	44.6	87.6 Hi-Ch	-43.0	None
39	622.700M	44.3		+0.0	44.3	87.6 Hi-Ch	-43.3	None
40	9920.000M	43.7		+0.0	43.7	87.6 Hi Ch	-43.9	None
41	9785.000M	43.6		+0.0	43.6	87.6 Mid Ch	-44.0	None

42	10535.000 M	43.5	+0.0	43.5	87.6 Lo Ch	-44.1	None
43	135.700M	43.4	+0.0	43.4	87.6 Mid-Ch	-44.2	None
44	7130.000M	43.1	+0.0	43.1	87.6 Lo Ch	-44.5	None
45	7115.000M	43.0	+0.0	43.0	87.6 Mid-Ch	-44.6	None
46	9620.000M	42.5	+0.0	42.5	87.6 Lo Ch	-45.1	None
47	9777.500M	41.6	+0.0	41.6	87.6 Mid-Ch	-46.0	None
48	28.410M	39.9	+0.0	39.9	87.6 Mid Ch	-47.7	None
49	23.402M	39.8	+0.0	39.8	87.6 Lo Ch	-47.8	None
50	28.470M	39.4	+0.0	39.4	87.6 Hi-Ch	-48.2	None
51	2460.000M	49.9	+0.0	49.9	107.6 Lo Ch	-57.7	None



Note: Since the time of testing, it has come to CKC Laboratories attention; the above company name should read Synapsense Corporation, and not SynapSense, Inc. The above plot screen capture was taken at the time of testing and cannot be changed.

Test Setup Photos

15.209/15.247(d) Spurious Radiated Emissions

Test Data Sheets

Test Location: CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Synapsense Corporation**
Specification: **FCC 15.247(d)/15.209**
Work Order #: **90296** Date: 2/4/2010
Test Type: **Maximized Emissions** Time: 4:11:13 PM
Equipment: **SynapStamp Radio Module** Sequence#: 9
Manufacturer: Synapsense Corporation Tested By: Chuck Kendall
Model: 11-0606-011
S/N: NA

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A	US44300407	08/07/2008	08/07/2010	02660
EMCO Loop Antenna	1074	04/10/2009	04/10/2011	00226
25' 26GHz cable	NA	05/19/2009	05/19/2011	01012

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-011	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

15.247(d) Radiated Magnetic Field
Tested with receiver activated to meet FCC 15.109 requirements
New batteries installed in +5dBm transceiver. Vertical polarity is the worst case. 1/4 Wave dipole external antenna is connected. Antenna has a maximum gain of 2.2 dBi.
Lo Ch is transmitting.
Frequencies of interest .009-30 MHz
55 ° Fahrenheit
35% Relative Humidity
Final BW settings
RBW = 9 kHz
VBW = 30kHz

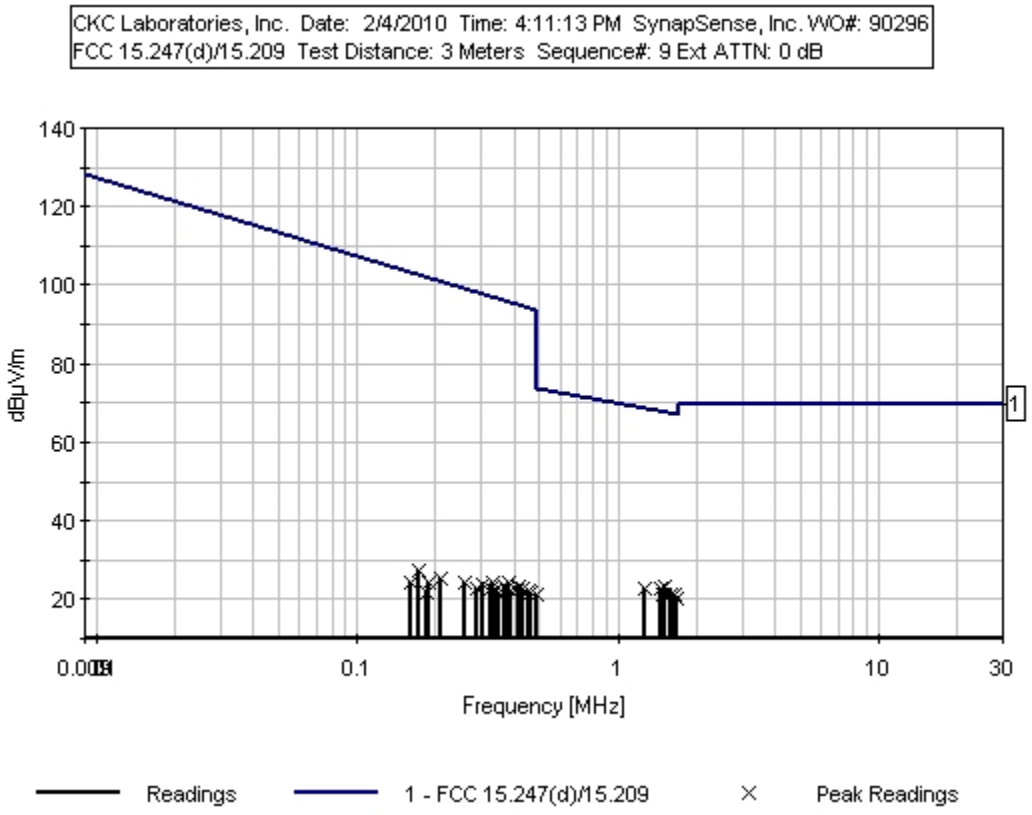
Transducer Legend:

T1=Mag Loop - AN 00226 - 9kHz-30M	T2=CAB-ANP01012-051909

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	1.505M	12.0	+10.1	+0.9			+0.0	23.0	67.6	-44.6	Vert
2	1.461M	11.7	+10.1	+0.9			+0.0	22.7	67.8	-45.1	Vert
3	1.668M	10.1	+10.1	+0.9			+0.0	21.1	67.0	-45.9	Vert
4	1.262M	11.6	+10.1	+0.9			+0.0	22.6	68.6	-46.0	Vert
5	1.526M	10.4	+10.1	+0.9			+0.0	21.4	67.5	-46.1	Vert
6	1.582M	10.2	+10.1	+0.9			+0.0	21.2	67.3	-46.1	Vert
7	1.605M	10.0	+10.1	+0.9			+0.0	21.0	67.2	-46.2	Vert
8	1.480M	10.3	+10.1	+0.9			+0.0	21.3	67.7	-46.4	Vert
9	1.680M	9.4	+10.1	+0.9			+0.0	20.4	67.0	-46.6	Vert
10	382.068k	13.1	+10.1	+0.9			+0.0	24.1	96.0	-71.9	Vert
11	417.610k	12.2	+10.1	+0.9			+0.0	23.2	95.2	-72.0	Vert
12	455.243k	11.3	+10.1	+0.9			+0.0	22.3	94.4	-72.1	Vert
13	428.063k	11.5	+10.1	+0.9			+0.0	22.5	95.0	-72.5	Vert
14	461.515k	10.6	+10.1	+0.9			+0.0	21.6	94.3	-72.7	Vert
15	486.603k	10.2	+10.1	+0.9			+0.0	21.2	93.9	-72.7	Vert
16	333.982k	13.4	+10.0	+0.9			+0.0	24.3	97.1	-72.8	Vert
17	365.342k	12.5	+10.1	+0.9			+0.0	23.5	96.3	-72.8	Vert
18	373.705k	11.9	+10.1	+0.9			+0.0	22.9	96.2	-73.3	Vert
19	388.340k	11.1	+10.1	+0.9			+0.0	22.1	95.8	-73.7	Vert
20	302.621k	13.1	+10.0	+0.9			+0.0	24.0	98.0	-74.0	Vert
21	323.528k	11.9	+10.0	+0.9			+0.0	22.8	97.4	-74.6	Vert
22	338.163k	11.4	+10.0	+0.9			+0.0	22.3	97.0	-74.7	Vert
23	260.807k	13.6	+9.9	+0.9			+0.0	24.4	99.3	-74.9	Vert

24	348.617k	10.6	+10.1	+0.9		+0.0	21.6	96.8	-75.2	Vert
25	170.907k	16.9	+9.7	+0.9		+0.0	27.5	102.9	-75.4	Vert
26	287.986k	11.9	+10.0	+0.9		+0.0	22.8	98.4	-75.6	Vert
27	210.630k	14.7	+9.8	+0.9		+0.0	25.4	101.1	-75.7	Vert
28	189.723k	13.7	+9.8	+0.9		+0.0	24.4	102.0	-77.6	Vert
29	160.454k	13.9	+9.7	+0.9		+0.0	24.5	103.5	-79.0	Vert
30	183.451k	11.0	+9.8	+0.9		+0.0	21.7	102.3	-80.6	Vert



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Test Location: CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Synapsense Corporation**
Specification: **FCC 15.247(d)/15.209**
Work Order #: **90296** Date: 2/4/2010
Test Type: **Radiated Scan** Time: 4:20:03 PM
Equipment: **SynapStamp Radio Module** Sequence#: 10
Manufacturer: Synapsense Corporation Tested By: Chuck Kendall
Model: 11-0606-011
S/N: NA

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A	US44300407	08/07/2008	08/07/2010	02660
EMCO Loop Antenna	1074	04/10/2009	04/10/2011	00226
25' 26GHz cable	NA	05/19/2009	05/19/2011	01012

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-011	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

15.247(d) Radiated Magnetic Field
Tested with receiver activated to meet FCC 15.109 requirements
New batteries installed in +5dBm transceiver. Vertical polarity is the worst case. 1/4 Wave dipole external antenna is connected. Antenna has a maximum gain of 2.2 dBi.
Mid Ch transmitting.
Frequencies of interest .009-30 MHz
55 ° Fahrenheit
35% Relative Humidity
Final BW settings
RBW = 9 kHz
VBW = 30kHz

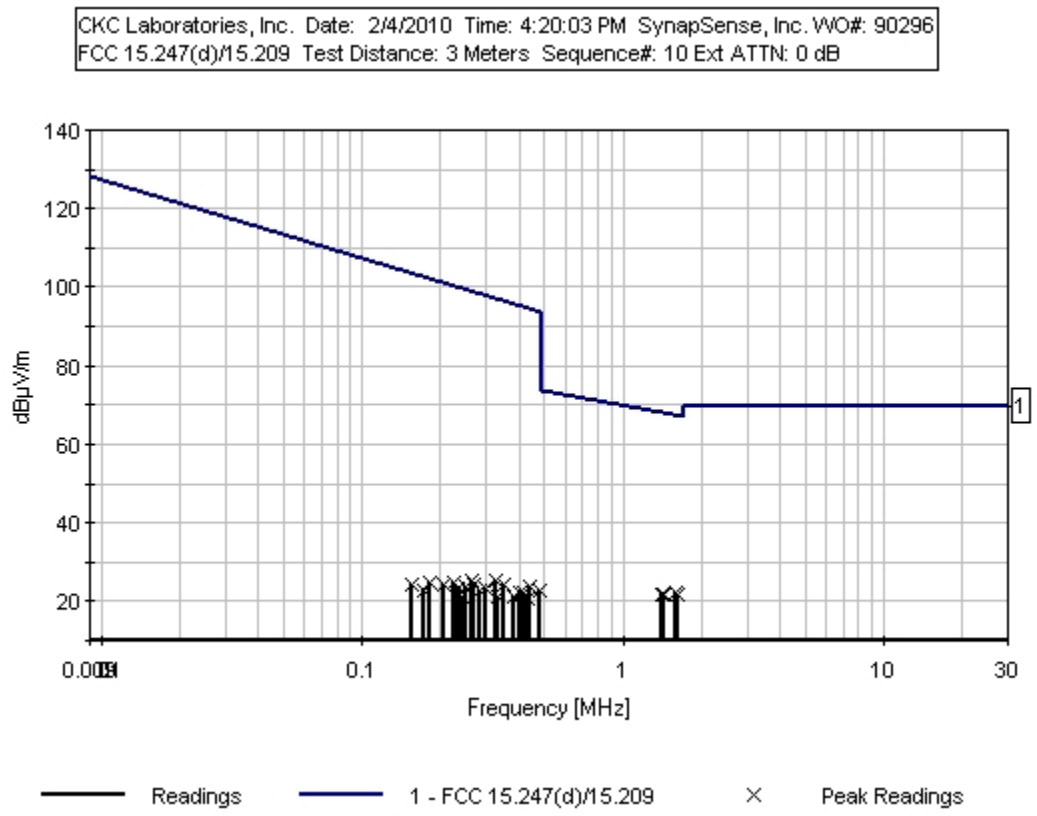
Transducer Legend:

T1=Mag Loop - AN 00226 - 9kHz-30M	T2=CAB-ANP01012-051909

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	1.582M	11.2	+10.1	+0.9			+0.0	22.2	67.3	-45.1	Vert
2	1.616M	10.5	+10.1	+0.9			+0.0	21.5	67.2	-45.7	Vert
3	1.438M	10.7	+10.1	+0.9			+0.0	21.7	67.8	-46.1	Vert
4	1.413M	10.6	+10.1	+0.9			+0.0	21.6	67.9	-46.3	Vert
5	480.331k	11.9	+10.1	+0.9			+0.0	22.9	94.0	-71.1	Vert

6	438.517k	12.6	+10.1	+0.9		+0.0	23.6	94.8	-71.2	Vert
7	325.619k	14.2	+10.0	+0.9		+0.0	25.1	97.3	-72.2	Vert
8	348.617k	13.5	+10.1	+0.9		+0.0	24.5	96.8	-72.3	Vert
9	400.884k	11.4	+10.1	+0.9		+0.0	22.4	95.5	-73.1	Vert
10	417.610k	11.0	+10.1	+0.9		+0.0	22.0	95.2	-73.2	Vert
11	409.247k	10.8	+10.1	+0.9		+0.0	21.8	95.4	-73.6	Vert
12	262.898k	14.6	+9.9	+0.9		+0.0	25.4	99.2	-73.8	Vert
13	430.154k	9.8	+10.1	+0.9		+0.0	20.8	94.9	-74.1	Vert
14	269.170k	13.6	+9.9	+0.9		+0.0	24.4	99.0	-74.6	Vert
15	384.159k	10.2	+10.1	+0.9		+0.0	21.2	95.9	-74.7	Vert
16	296.349k	12.4	+10.0	+0.9		+0.0	23.3	98.2	-74.9	Vert
17	379.977k	10.1	+10.1	+0.9		+0.0	21.1	96.0	-74.9	Vert
18	225.265k	13.9	+9.9	+0.9		+0.0	24.7	100.5	-75.8	Vert
19	250.354k	13.0	+9.9	+0.9		+0.0	23.8	99.6	-75.8	Vert
20	283.805k	11.8	+10.0	+0.9		+0.0	22.7	98.5	-75.8	Vert
21	329.800k	10.1	+10.0	+0.9		+0.0	21.0	97.2	-76.2	Vert
22	206.449k	13.8	+9.8	+0.9		+0.0	24.5	101.3	-76.8	Vert
23	231.537k	12.6	+9.9	+0.9		+0.0	23.4	100.3	-76.9	Vert
24	181.361k	14.2	+9.8	+0.9		+0.0	24.9	102.4	-77.5	Vert
25	241.991k	10.6	+9.9	+0.9		+0.0	21.4	99.9	-78.5	Vert
26	154.181k	13.9	+9.7	+0.9		+0.0	24.5	103.8	-79.3	Vert
27	172.998k	12.3	+9.7	+0.9		+0.0	22.9	102.8	-79.9	Vert



Note: Since the time of testing, it has come to CKC Laboratories attention; the above company name should read Synapsense Corporation, and not SynapSense, Inc. The above plot screen capture was taken at the time of testing and cannot be changed.

Test Location: CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Synapsense Corporation**
Specification: **FCC 15.247(d)/15.209**
Work Order #: **90296** Date: 2/4/2010
Test Type: **Radiated Scan** Time: 4:38:51 PM
Equipment: **SynapStamp Radio Module** Sequence#: 11
Manufacturer: Synapsense Corporation Tested By: Chuck Kendall
Model: 11-0606-011
S/N: NA

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A	US44300407	08/07/2008	08/07/2010	02660
25' 26GHz cable	NA	05/19/2009	05/19/2009	N01012
EMCO Loop Antenna	1074	04/10/2009	04/10/2011	00226

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-011	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

15.247(d) Radiated Magnetic Field
Tested with receiver activated to meet FCC 15.109 requirements
New batteries installed in +5dBm transceiver. Vertical polarity is the worst case. 1/4 Wave dipole external antenna is connected. Antenna has a maximum gain of 2.2 dBi.
Hi Ch transmitting
Frequencies of interest .009-30 MHz
55 d° Fahrenheit
35% Relative Humidity
Final BW settings
RBW = 9 kHz
VBW = 30kHz

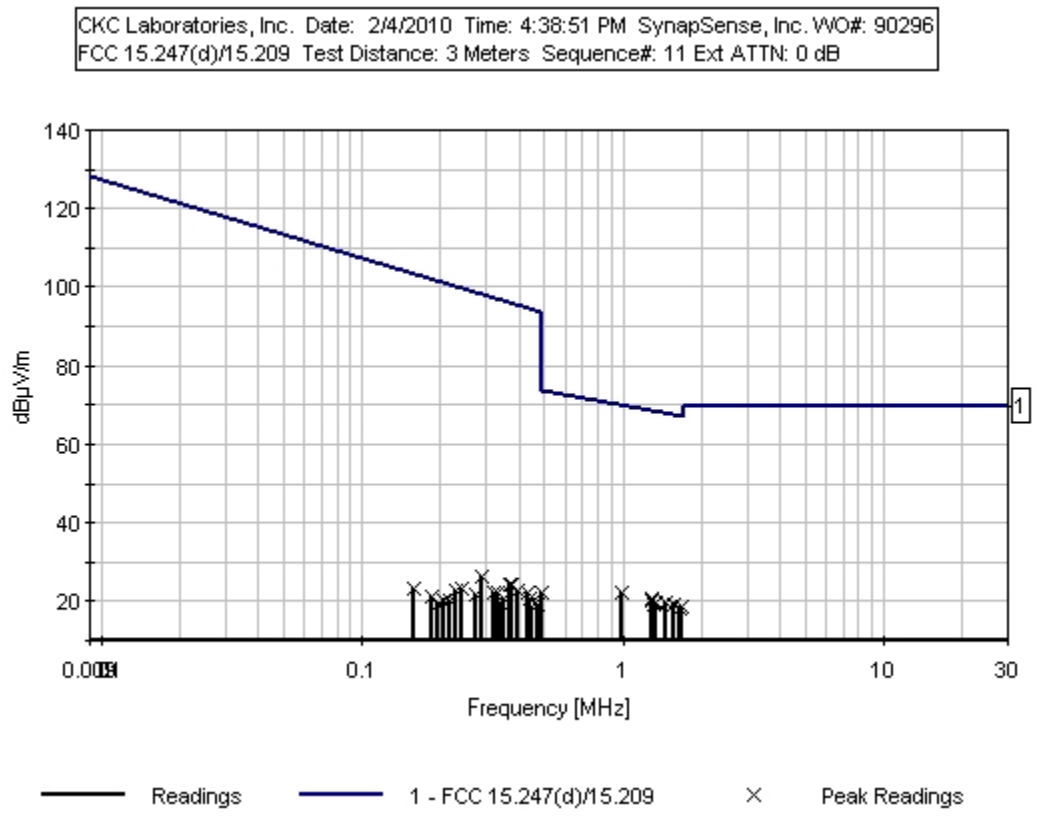
Transducer Legend:

T1=Mag Loop - AN 00226 - 9kHz-30M	T2=CAB-ANP01012-051909

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	1.292M	9.6	+10.1	+0.9			+0.0	20.6	68.4	-47.8	Vert
2	988.372k	10.9	+10.2	+0.9			+0.0	22.0	69.9	-47.9	Vert
3	1.559M	8.4	+10.1	+0.9			+0.0	19.4	67.4	-48.0	Vert
4	1.467M	8.6	+10.1	+0.9			+0.0	19.6	67.7	-48.1	Vert
5	1.300M	9.2	+10.1	+0.9			+0.0	20.2	68.4	-48.2	Vert

6	1.682M	7.7	+10.1	+0.9		+0.0	18.7	67.0	-48.3	Vert
7	1.335M	8.8	+10.1	+0.9		+0.0	19.8	68.3	-48.5	Vert
8	1.325M	8.4	+10.1	+0.9		+0.0	19.4	68.3	-48.9	Vert
9	1.657M	7.1	+10.1	+0.9		+0.0	18.1	67.1	-49.0	Vert
10	488.694k	11.1	+10.1	+0.9		+0.0	22.1	93.8	-71.7	Vert
11	375.796k	13.3	+10.1	+0.9		+0.0	24.3	96.1	-71.8	Vert
12	369.524k	13.3	+10.1	+0.9		+0.0	24.3	96.2	-71.9	Vert
13	287.986k	15.3	+10.0	+0.9		+0.0	26.2	98.4	-72.2	Vert
14	396.703k	11.9	+10.1	+0.9		+0.0	22.9	95.6	-72.7	Vert
15	428.063k	11.2	+10.1	+0.9		+0.0	22.2	95.0	-72.8	Vert
16	440.608k	9.7	+10.1	+0.9		+0.0	20.7	94.7	-74.0	Vert
17	469.877k	8.4	+10.1	+0.9		+0.0	19.4	94.2	-74.8	Vert
18	329.800k	11.3	+10.0	+0.9		+0.0	22.2	97.2	-75.0	Vert
19	319.347k	11.5	+10.0	+0.9		+0.0	22.4	97.5	-75.1	Vert
20	451.061k	7.6	+10.1	+0.9		+0.0	18.6	94.5	-75.9	Vert
21	346.526k	9.6	+10.1	+0.9		+0.0	20.6	96.8	-76.2	Vert
22	239.900k	12.4	+9.9	+0.9		+0.0	23.2	100.0	-76.8	Vert
23	271.261k	10.9	+10.0	+0.9		+0.0	21.8	98.9	-77.1	Vert
24	227.356k	12.0	+9.9	+0.9		+0.0	22.8	100.5	-77.7	Vert
25	340.254k	8.2	+10.0	+0.9		+0.0	19.1	97.0	-77.9	Vert
26	156.272k	12.7	+9.7	+0.9		+0.0	23.3	103.7	-80.4	Vert
27	216.903k	9.5	+9.8	+0.9		+0.0	20.2	100.9	-80.7	Vert
28	185.542k	10.5	+9.8	+0.9		+0.0	21.2	102.2	-81.0	Vert
29	206.449k	9.6	+9.8	+0.9		+0.0	20.3	101.3	-81.0	Vert
30	193.905k	8.3	+9.8	+0.9		+0.0	19.0	101.8	-82.8	Vert



Note: Since the time of testing, it has come to CKC Laboratories attention; the above company name should read Synapsense Corporation, and not SynapSense, Inc. The above plot screen capture was taken at the time of testing and cannot be changed.

Test Location: CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Synapsense Corporation**
Specification: **FCC 15.247(d)/15.209**
Work Order #: **90296** Date: 2/5/2010
Test Type: **Maximized Emissions** Time: 12:44:20
Equipment: **SynapStamp Radio Module** Sequence#: 16
Manufacturer: Synapsense Corporation Tested By: Chuck Kendall
Model: 11-0606-011
S/N: NA

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A	US44300407	08/07/2008	08/07/2010	02660
Bilog Antenna	2455	09/10/2009	09/10/2011	AN01992
HP-8447D Preamp	2727A05444	06/20/2008	06/20/2010	AN00062
Ans Cable	NA	01/26/2010	01/26/2012	AN03013
Andrew-25'	NA	05/19/2009	05/19/2011	AN01012

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-011	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

15.247(d)/15.205/209 Spurious emissions
Tested with receiver activated to meet FCC 15.109 requirements
New batteries installed in +5dBm transceiver.
Frequencies of interest 30 -1000 MHz
70 ° Fahrenheit
35% Relative Humidity
Tx is transmitting on frequencies: 2405 MHz, 2445 MHz, & 2480 MHz
Module is in Vertical position, atop foam, 80 cm from ground plane with the external antenna. Antenna has a maximum gain of 2.2 dBi.
Final BWs:
RBW=120kHz
VBW=360kHz

Transducer Legend:

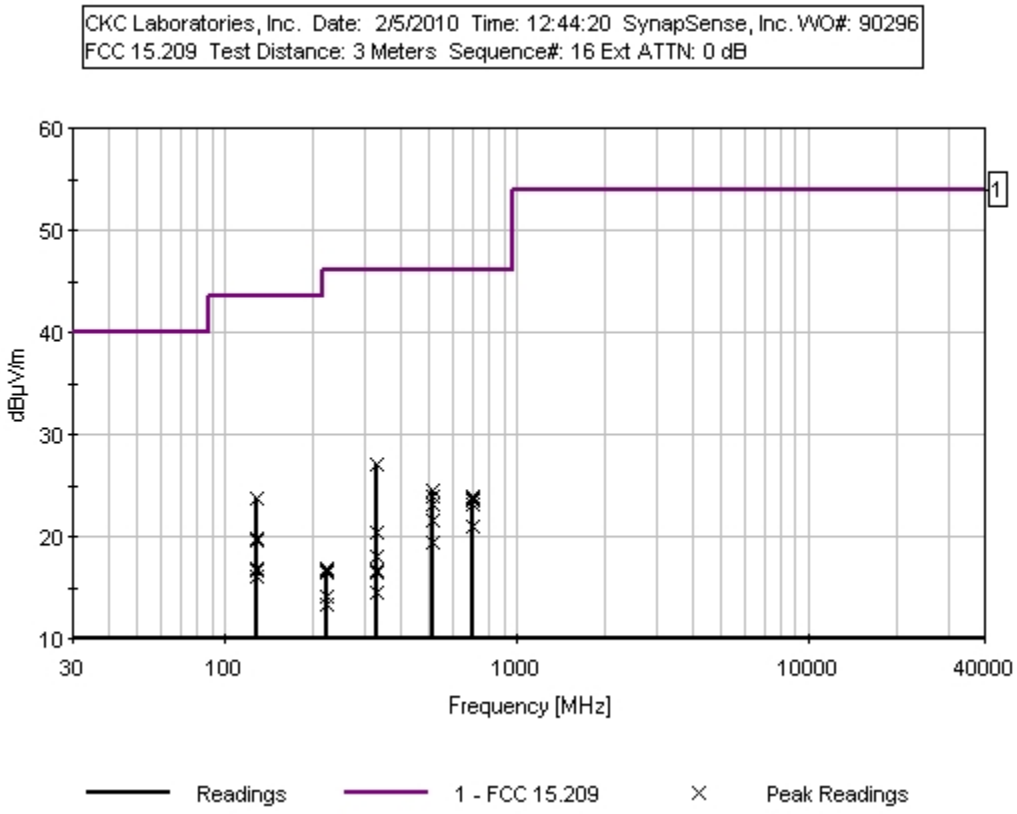
T1=AMP-AN00062-062008	T2=ANT-AN01992-100909 25-1000MHz
T3=CAB-ANP01012-051909	T4=CAB-AN03013-40GHZ-3FT

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	330.000M	40.7	-29.8	+14.6	+1.3	+0.3	+0.0	27.1	46.0 Lo Ch	-18.9	Vert
2	127.995M	41.4	-30.5	+11.5	+1.1	+0.2	+0.0	23.7	43.5 Lo Ch	-19.8	Vert
3	511.828M	34.5	-30.5	+18.8	+1.4	+0.3	+0.0	24.5	46.0 Mid Ch	-21.5	Vert

4	703.870M	31.0	-30.3	+21.4	+1.5	+0.4	+0.0	24.0	46.0 Hi Ch	-22.0	Vert
5	511.888M	34.0	-30.5	+18.8	+1.4	+0.3	+0.0	24.0	46.0 Hi Ch	-22.0	Vert
6	511.914M	34.0	-30.5	+18.8	+1.4	+0.3	+0.0	24.0	46.0 Mid Ch	-22.0	Horiz
7	703.890M	30.8	-30.3	+21.4	+1.5	+0.4	+0.0	23.8	46.0 Mid Ch	-22.2	Vert
8	703.900M	30.6	-30.3	+21.4	+1.5	+0.4	+0.0	23.6	46.0 Mid Ch	-22.4	Horiz
9	703.906M	30.5	-30.3	+21.4	+1.5	+0.4	+0.0	23.5	46.0 Lo Ch	-22.5	Horiz
10	703.842M	30.2	-30.3	+21.4	+1.5	+0.4	+0.0	23.2	46.0	-22.8	Horiz
11	511.795M	33.2	-30.5	+18.8	+1.4	+0.3	+0.0	23.2	46.0	-22.8	Horiz
12	128.072M	37.5	-30.5	+11.5	+1.1	+0.2	+0.0	19.8	43.5 Mid Ch	-23.7	Horiz
13	128.059M	37.3	-30.5	+11.5	+1.1	+0.2	+0.0	19.6	43.5	-23.9	Horiz
14	511.961M	31.6	-30.5	+18.8	+1.4	+0.3	+0.0	21.6	46.0 Lo Ch	-24.4	Horiz
15	511.920M	31.5	-30.5	+18.8	+1.4	+0.3	+0.0	21.5	46.0 Lo Ch	-24.5	Horiz
16	704.000M	27.9	-30.3	+21.4	+1.5	+0.4	+0.0	20.9	46.0 Lo Ch	-25.1	Vert
17	330.258M	34.0	-29.8	+14.6	+1.3	+0.3	+0.0	20.4	46.0 Mid Ch	-25.6	Horiz
18	512.000M	29.5	-30.5	+18.8	+1.4	+0.3	+0.0	19.5	46.0 Lo Ch	-26.5	Vert
19	127.966M	34.6	-30.5	+11.5	+1.1	+0.2	+0.0	16.9	43.5 Hi Ch	-26.6	Vert
20	128.020M	34.4	-30.5	+11.5	+1.1	+0.2	+0.0	16.7	43.5 Mid Ch	-26.8	Vert
21	127.935M	33.8	-30.5	+11.5	+1.1	+0.2	+0.0	16.1	43.5 Lo Ch	-27.4	Horiz
22	330.375M	31.7	-29.8	+14.6	+1.3	+0.3	+0.0	18.1	46.0	-27.9	Horiz
23	224.003M	34.4	-29.8	+10.8	+1.2	+0.2	+0.0	16.8	46.0 Lo Ch	-29.2	Horiz
24	223.993M	34.3	-29.8	+10.8	+1.2	+0.2	+0.0	16.7	46.0	-29.3	Horiz
25	330.277M	30.2	-29.8	+14.6	+1.3	+0.3	+0.0	16.6	46.0 Hi Ch	-29.4	Vert
26	330.276M	30.1	-29.8	+14.6	+1.3	+0.3	+0.0	16.5	46.0 Mid Ch	-29.5	Vert
27	224.016M	34.0	-29.8	+10.8	+1.2	+0.2	+0.0	16.4	46.0 Mid Ch	-29.6	Horiz

28	330.237M	28.2	-29.8	+14.6	+1.3	+0.3	+0.0	14.6	46.0 Lo Ch	-31.4	Horiz
29	223.933M	31.8	-29.8	+10.8	+1.2	+0.2	+0.0	14.2	46.0 Hi Ch	-31.8	Vert
30	223.941M	31.0	-29.8	+10.8	+1.2	+0.2	+0.0	13.4	46.0 Mid Ch	-32.6	Vert
31	224.000M	31.0	-29.8	+10.8	+1.2	+0.2	+0.0	13.4	46.0 Lo Ch	-32.6	Vert



Note: Since the time of testing, it has come to CKC Laboratories attention; the above company name should read Synapsense Corporation, and not SynapSense, Inc. The above plot screen capture was taken at the time of testing and cannot be changed.

Test Location:	CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240		
Customer:	**Synapsense Corporation**		
Specification:	**FCC 15.247(d) / 15.209**		
Work Order #:	**90296**	Date:	2/10/2010
Test Type:	**Maximized Emissions**	Time:	13:52:03
Equipment:	**SynapStamp Radio Module**	Sequence#:	14
Manufacturer:	Synapsense Corporation	Tested By:	Chuck Kendall
Model:	11-0606-011		
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A	US44300407	08/07/2008	08/07/2010	02660
Andrew-25'	NA	05/19/2009	05/19/2011	AN01012
Horn Antenna	3413	06/06/2008	06/06/2010	AN00327
HP Preamp 83017A	000009031	07/17/2009	07/17/2011	3155
Ans Cable	NA	01/26/2010	01/26/2012	AN03012
Horn Antenna 18-26GHz	01005	11/13/2008	11/13/2010	AN02046

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-011	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

15.247(d)/15.209/205 Spurious Emissions-RE
Tested with receiver activated to meet FCC 15.109 requirements
New batteries installed in +5dBm transceiver.
Frequencies of interest 1-25 GHz
58 ° Fahrenheit
35% Relative Humidity
Tx is transmitting on frequencies: 2405 MHz, 2445 MHz, & 2480 MHz
Module is atop foam, 80 cm from ground plane with the external antenna. Antenna has a maximum gain of 2.2 dBi.
Test distance is at 3m.
Final BWs:
RBW=1 MHz
VBW=3 MHz

Transducer Legend:

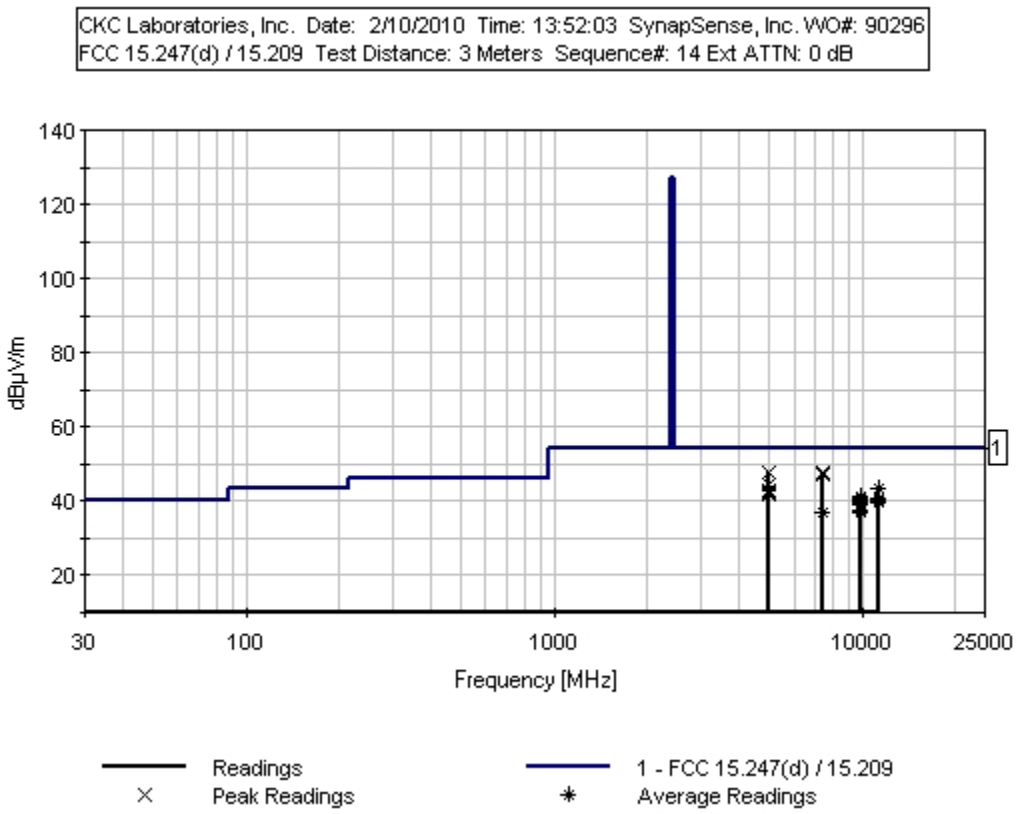
T1=CAB-ANP01012-051909	T2=Amp AN03155 to 26.5GHz
T3=ANT AN00327 1GHz-18GHz	T4=CAB-AN03012-40GHZ-3FT

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	4959.500M	43.8	+2.7	-33.0	+33.5	+0.8	+0.0	47.8	54.0 Hi Ch	-6.2	Horiz
2	7421.966M	40.8	+3.6	-33.6	+36.0	+1.0	+0.0	47.8	54.0 Mid Ch	-6.2	Horiz
3	7423.500M	40.5	+3.6	-33.6	+36.1	+1.0	+0.0	47.6	54.0 Hi Ch	-6.4	Horiz

4	7422.991M	40.5	+3.6	-33.6	+36.1	+1.0	+0.0	47.6	54.0 Lo Ch	-6.4	Horiz
5	7421.970M	40.3	+3.6	-33.6	+36.0	+1.0	+0.0	47.3	54.0 Mid CH	-6.7	Horiz
6	7422.478M	40.0	+3.6	-33.6	+36.0	+1.0	+0.0	47.0	54.0 Lo Ch	-7.0	Vert
7	4960.000M	40.3	+2.7	-33.0	+33.5	+0.8	+0.0	44.3	54.0 Hi Ch	-9.7	Vert
8	11364.900 M Ave	33.2	+4.6	-33.9	+38.6	+1.2	+0.0	43.7	54.0 Hi Ch	-10.3	Horiz
^	11364.900 M	39.6	+4.6	-33.9	+38.6	+1.2	+0.0	50.1	54.0 Hi Ch	-3.9	Horiz
10	11365.000 M Ave	32.8	+4.6	-33.9	+38.6	+1.2	+0.0	43.3	54.0 Hi Ch	-10.7	Vert
^	11365.000 M	40.1	+4.6	-33.9	+38.6	+1.2	+0.0	50.6	54.0 Hi Ch	-3.4	Vert
12	4958.483M	39.0	+2.7	-33.0	+33.5	+0.8	+0.0	43.0	54.0 Lo Ch	-11.0	Vert
13	4957.977M	38.4	+2.7	-33.0	+33.5	+0.8	+0.0	42.4	54.0 Mid Ch	-11.6	Horiz
14	4958.991M	38.3	+2.7	-33.0	+33.5	+0.8	+0.0	42.3	54.0 Lo Ch	-11.7	Horiz
15	4957.967M	37.9	+2.7	-33.0	+33.5	+0.8	+0.0	41.9	54.0 Mid CH	-12.1	Horiz
16	9918.482M Ave	30.6	+4.5	-33.3	+38.2	+1.1	+0.0	41.1	54.0 Lo Ch	-12.9	Horiz
17	9918.990M Ave	30.4	+4.5	-33.3	+38.2	+1.1	+0.0	40.9	54.0 Mid Ch	-13.1	Horiz
^	9918.990M	38.2	+4.5	-33.3	+38.2	+1.1	+0.0	48.7	54.0 Lo Ch	-5.3	Horiz
19	11364.390 M Ave	30.3	+4.6	-33.9	+38.6	+1.2	+0.0	40.8	54.0 Mid CH	-13.2	Horiz
^	11364.390 M	39.4	+4.6	-33.9	+38.6	+1.2	+0.0	49.9	54.0 Lo Ch	-4.1	Horiz
21	11363.360 M Ave	30.1	+4.6	-33.9	+38.6	+1.2	+0.0	40.6	54.0 Mid Ch	-13.4	Horiz
^	11363.360 M	39.6	+4.6	-33.9	+38.6	+1.2	+0.0	50.1	54.0 Mid Ch	-3.9	Horiz
23	9920.000M Ave	30.0	+4.5	-33.3	+38.2	+1.1	+0.0	40.5	54.0 Hi Ch	-13.5	Vert
^	9920.000M	38.4	+4.5	-33.3	+38.2	+1.1	+0.0	48.9	54.0 Hi Ch	-5.1	Vert
25	9918.482M Ave	29.5	+4.5	-33.3	+38.2	+1.1	+0.0	40.0	54.0 Hi Ch	-14.0	Vert

^	9918.482M	38.5	+4.5	-33.3	+38.2	+1.1	+0.0	49.0	54.0 Lo Ch	-5.0	Vert
27	11362.850 M Ave	29.5	+4.6	-33.9	+38.6	+1.2	+0.0	40.0	54.0 Mid Ch	-14.0	Horiz
^	11362.850 M	39.1	+4.6	-33.9	+38.6	+1.2	+0.0	49.6	54.0 Mid CH	-4.4	Horiz
29	9917.969M Ave	29.4	+4.5	-33.3	+38.2	+1.1	+0.0	39.9	54.0 Mid Ch	-14.1	Horiz
^	9917.969M	38.3	+4.5	-33.3	+38.2	+1.1	+0.0	48.8	54.0 Mid Ch	-5.2	Horiz
31	11363.880 M Ave	29.3	+4.6	-33.9	+38.6	+1.2	+0.0	39.8	54.0 Lo Ch	-14.2	Vert
^	11363.880 M	39.0	+4.6	-33.9	+38.6	+1.2	+0.0	49.5	54.0 Lo Ch	-4.5	Vert
33	9917.459M Ave	28.4	+4.5	-33.3	+38.2	+1.1	+0.0	38.9	54.0 Hi Ch	-15.1	Horiz
^	9917.459M	38.8	+4.5	-33.3	+38.2	+1.1	+0.0	49.3	54.0 Mid CH	-4.7	Horiz
35	9917.095M Ave	27.0	+4.5	-33.3	+38.2	+1.1	+0.0	37.5	54.0 Mid CH	-16.5	Horiz
36	9919.499M Ave	26.6	+4.5	-33.3	+38.2	+1.1	+0.0	37.1	54.0 Lo Ch	-16.9	Horiz
^	9919.499M	38.7	+4.5	-33.3	+38.2	+1.1	+0.0	49.2	54.0 Hi Ch	-4.8	Horiz
38	7424.000M Ave	29.8	+3.6	-33.6	+36.1	+1.0	+0.0	36.9	54.0 Hi Ch	-17.1	Vert
^	7424.000M	41.7	+3.6	-33.6	+36.1	+1.0	+0.0	48.8	54.0 Hi Ch	-5.2	Vert



Note: Since the time of testing, it has come to CKC Laboratories attention; the above company name should read Synapsense Corporation, and not SynapSense, Inc. The above plot screen capture was taken at the time of testing and cannot be changed.

Test Location: CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Synapsense Corporation**
Specification: **FCC 15.247(d)/15.209**
Work Order #: **90296** Date: 2/4/2010
Test Type: **Radiated Scan** Time: 4:45:56 PM
Equipment: **SynapStamp Radio Module** Sequence#: 13
Manufacturer: Synapsense Corporation Tested By: Chuck Kendall
Model: 11-0606-001
S/N: NA

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A	US44300407	08/07/2008	08/07/2010	02660
EMCO Loop Antenna	1074	04/10/2009	04/10/2011	00226
25' 26GHz cable	NA	05/19/2009	05/19/2011	01012

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-001	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

15.247(d) Radiated Magnetic Field
Tested with receiver activated to meet FCC 15.109 requirements
New batteries installed in +5dBm transceiver. Vertical polarity is the worst case. Integral antenna now connected..
Antenna has a maximum gain of 2.2 dBi.
Lo Ch transmitting.
Frequencies of interest .009-30 MHz
55 °Fahrenheit
35% Relative Humidity
Final BW settings
RBW = 9 kHz & 200Hz
VBW = 30kHz

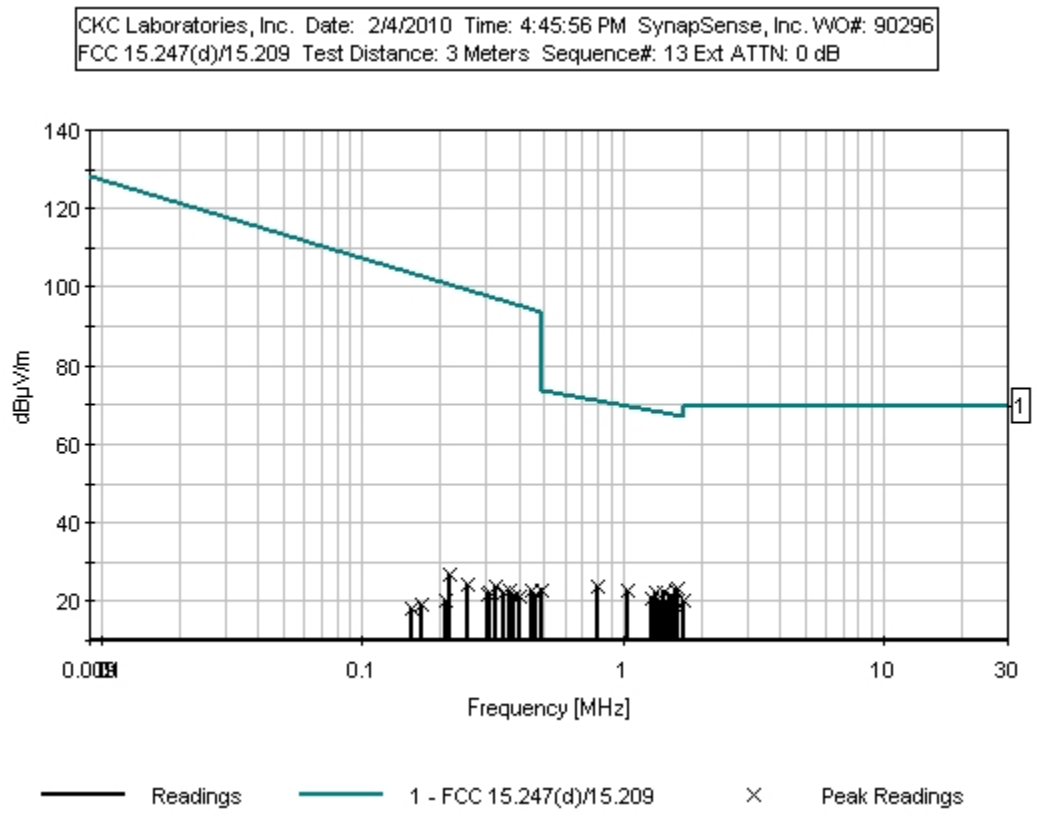
Transducer Legend:

T1=Mag Loop - AN 00226 - 9kHz-30M	T2=CAB-ANP01012-051909

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	1.616M	12.2	+10.1	+0.9			+0.0	23.2	67.2	-44.0	Vert
2	1.595M	11.8	+10.1	+0.9			+0.0	22.8	67.3	-44.5	Vert
3	1.342M	11.4	+10.1	+0.9			+0.0	22.4	68.2	-45.8	Vert
4	1.442M	11.0	+10.1	+0.9			+0.0	22.0	67.8	-45.8	Vert
5	1.530M	10.3	+10.1	+0.9			+0.0	21.3	67.5	-46.2	Vert

6	1.513M	10.1	+10.1	+0.9	+0.0	21.1	67.6	-46.5	Vert
7	1.043M	11.7	+10.2	+0.9	+0.0	22.8	69.6	-46.8	Vert
8	1.699M	9.0	+10.1	+0.9	+0.0	20.0	66.9	-46.9	Vert
9	806.480k	12.7	+10.3	+0.9	+0.0	23.9	71.0	-47.1	Vert
10	1.379M	9.4	+10.1	+0.9	+0.0	20.4	68.1	-47.7	Vert
11	1.396M	9.3	+10.1	+0.9	+0.0	20.3	68.0	-47.7	Vert
12	1.300M	9.5	+10.1	+0.9	+0.0	20.5	68.4	-47.9	Vert
13	1.411M	8.3	+10.1	+0.9	+0.0	19.3	67.9	-48.6	Vert
14	1.639M	7.1	+10.1	+0.9	+0.0	18.1	67.1	-49.0	Vert
15	1.476M	7.6	+10.1	+0.9	+0.0	18.6	67.7	-49.1	Vert
16	486.603k	11.7	+10.1	+0.9	+0.0	22.7	93.9	-71.2	Vert
17	451.061k	11.9	+10.1	+0.9	+0.0	22.9	94.5	-71.6	Vert
18	465.696k	10.6	+10.1	+0.9	+0.0	21.6	94.2	-72.6	Vert
19	323.528k	12.9	+10.0	+0.9	+0.0	23.8	97.4	-73.6	Vert
20	365.342k	11.7	+10.1	+0.9	+0.0	22.7	96.3	-73.6	Vert
21	216.903k	16.1	+9.8	+0.9	+0.0	26.8	100.9	-74.1	Vert
22	405.066k	10.1	+10.1	+0.9	+0.0	21.1	95.5	-74.4	Vert
23	348.617k	11.1	+10.1	+0.9	+0.0	22.1	96.8	-74.7	Vert
24	379.977k	10.3	+10.1	+0.9	+0.0	21.3	96.0	-74.7	Vert
25	252.444k	13.7	+9.9	+0.9	+0.0	24.5	99.6	-75.1	Vert
26	310.984k	11.3	+10.0	+0.9	+0.0	22.2	97.7	-75.5	Vert
27	302.621k	10.8	+10.0	+0.9	+0.0	21.7	98.0	-76.3	Vert
28	208.540k	9.6	+9.8	+0.9	+0.0	20.3	101.2	-80.9	Vert
29	168.816k	8.6	+9.7	+0.9	+0.0	19.2	103.1	-83.9	Vert
30	154.181k	7.8	+9.7	+0.9	+0.0	18.4	103.8	-85.4	Vert



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Test Location: CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Synapsense Corporation**
Specification: **FCC 15.247(d)/15.209**
Work Order #: **90296** Date: 2/4/2010
Test Type: **Radiated Scan** Time: 4:47:58 PM
Equipment: **SynapStamp Radio Module** Sequence#: 14
Manufacturer: Synapsense Corporation Tested By: Chuck Kendall
Model: 11-0606-001
S/N: NA

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A	US44300407	08/07/2008	08/07/2010	02660
EMCO Loop Antenna	1074	04/10/2009	04/10/2011	00226
25' 26GHz cable	NA	05/19/2009	05/19/2011	01012

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-001	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

15.247(d) Radiated Magnetic Field
Tested with receiver activated to meet FCC 15.109 requirements
New batteries installed in +5dBm transceiver. Vertical polarity is the worst case. Integral antenna now connected..
Mid Ch is transmitting. Antenna has a maximum gain of 2.2 dBi.
Frequencies of interest .009-30 MHz
55 °Fahrenheit
35% Relative Humidity
Final BW settings
RBW = 9 kHz & 200Hz
VBW = 30kHz

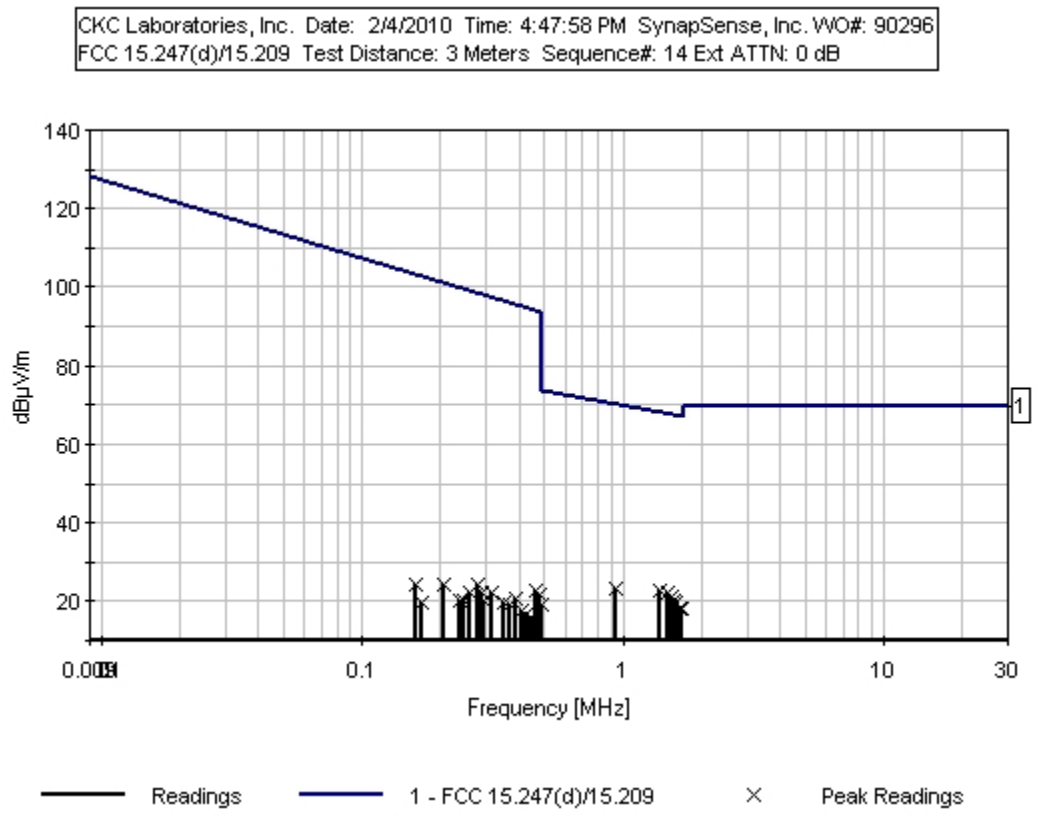
Transducer Legend:

T1=Mag Loop - AN 00226 - 9kHz-30M	T2=CAB-ANP01012-051909

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	1.396M	11.9	+10.1	+0.9			+0.0	22.9	68.0	-45.1	Vert
2	1.482M	11.4	+10.1	+0.9			+0.0	22.4	67.7	-45.3	Vert
3	1.549M	10.2	+10.1	+0.9			+0.0	21.2	67.4	-46.2	Vert
4	1.540M	10.0	+10.1	+0.9			+0.0	21.0	67.5	-46.5	Vert
5	940.285k	12.1	+10.3	+0.9			+0.0	23.3	70.2	-46.9	Vert

6	1.565M	9.4	+10.1	+0.9		+0.0	20.4	67.4	-47.0	Vert
7	1.595M	8.9	+10.1	+0.9		+0.0	19.9	67.3	-47.4	Vert
8	1.607M	8.7	+10.1	+0.9		+0.0	19.7	67.2	-47.5	Vert
9	1.685M	7.4	+10.1	+0.9		+0.0	18.4	67.0	-48.6	Vert
10	1.659M	7.2	+10.1	+0.9		+0.0	18.2	67.0	-48.8	Vert
11	461.515k	11.7	+10.1	+0.9		+0.0	22.7	94.3	-71.6	Vert
12	482.422k	10.8	+10.1	+0.9		+0.0	21.8	93.9	-72.1	Vert
13	275.442k	13.3	+10.0	+0.9		+0.0	24.2	98.8	-74.6	Vert
14	488.694k	8.0	+10.1	+0.9		+0.0	19.0	93.8	-74.8	Vert
15	388.340k	9.7	+10.1	+0.9		+0.0	20.7	95.8	-75.1	Vert
16	313.075k	11.4	+10.0	+0.9		+0.0	22.3	97.7	-75.4	Vert
17	287.986k	11.3	+10.0	+0.9		+0.0	22.2	98.4	-76.2	Vert
18	204.358k	13.7	+9.8	+0.9		+0.0	24.4	101.4	-77.0	Vert
19	350.707k	8.5	+10.1	+0.9		+0.0	19.5	96.7	-77.2	Vert
20	258.717k	11.2	+9.9	+0.9		+0.0	22.0	99.3	-77.3	Vert
21	367.433k	8.0	+10.1	+0.9		+0.0	19.0	96.3	-77.3	Vert
22	407.156k	6.8	+10.1	+0.9		+0.0	17.8	95.4	-77.6	Vert
23	294.258k	9.4	+10.0	+0.9		+0.0	20.3	98.2	-77.9	Vert
24	425.973k	5.8	+10.1	+0.9		+0.0	16.8	95.0	-78.2	Vert
25	444.789k	4.7	+10.1	+0.9		+0.0	15.7	94.6	-78.9	Vert
26	436.426k	4.8	+10.1	+0.9		+0.0	15.8	94.8	-79.0	Vert
27	160.454k	13.7	+9.7	+0.9		+0.0	24.3	103.5	-79.2	Vert
28	246.172k	9.5	+9.9	+0.9		+0.0	20.3	99.8	-79.5	Vert
29	235.719k	9.5	+9.9	+0.9		+0.0	20.3	100.2	-79.9	Vert
30	168.816k	9.0	+9.7	+0.9		+0.0	19.6	103.1	-83.5	Vert



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Test Location: CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Synapsense Corporation**
Specification: **FCC 15.247(d)/15.209**
Work Order #: **90296** Date: 2/4/2010
Test Type: **Radiated Scan** Time: 4:43:18 PM
Equipment: **SynapStamp Radio Module** Sequence#: 12
Manufacturer: Synapsense Corporation Tested By: Chuck Kendall
Model: 11-0606-001
S/N: NA

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A	US44300407	08/07/2008	08/07/2010	02660
EMCO Loop Antenna	1074	04/10/2009	04/10/2011	00226
25' 26GHz cable	NA	05/19/2009	05/19/2011	01012

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-001	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

15.247(d) Radiated Magnetic Field
Tested with receiver activated to meet FCC 15.109 requirements
New batteries installed in +5dBm transceiver. Vertical polarity is the worst case. Integral antenna now connected..
Hi Ch transmitting. Antenna has a maximum gain of 2.2 dBi.
Frequencies of interest .009-30 MHz
55° Fahrenheit
35% Relative Humidity
Module is atop a plastic case. Antenna cable is directly connected to the S/A.
Final BW settings
RBW = 9 kHz
VBW = 30kHz

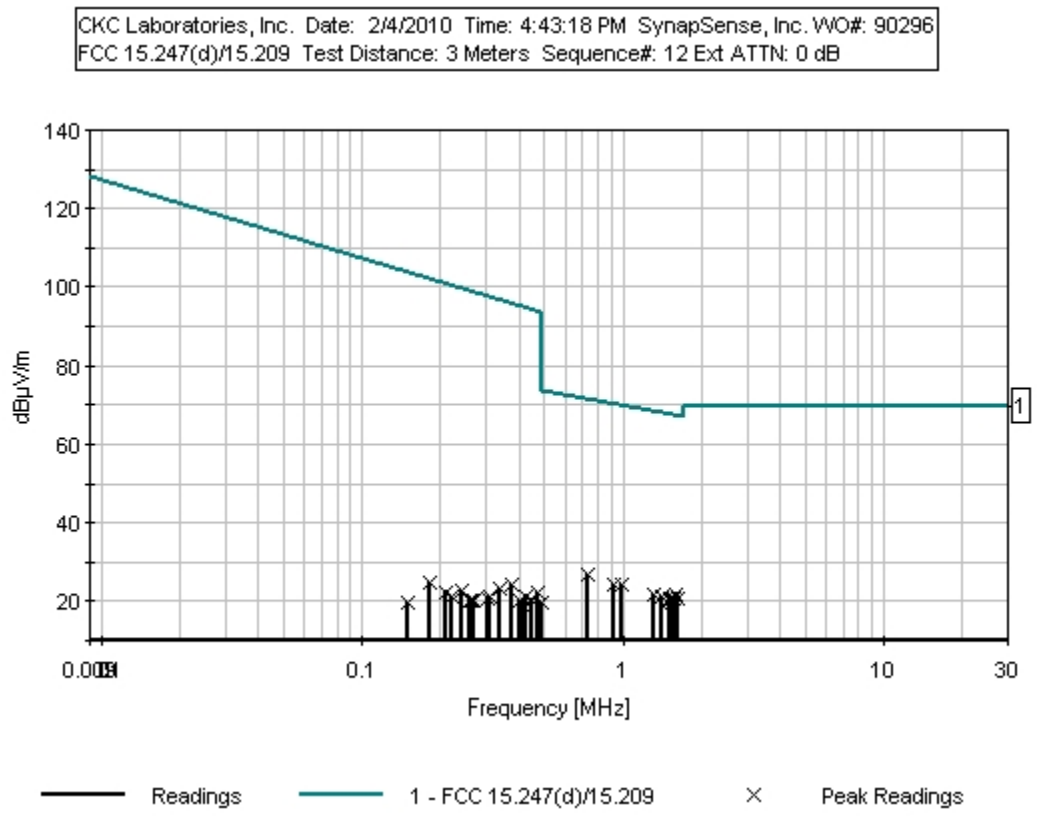
Transducer Legend:

T1=CAB-AN03012-40GHZ-3FT T2=Mag Loop - AN 00226 - 9kHz-30M
T3=CAB-ANP01012-051909

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	729.125k	15.5	+0.1	+10.3	+0.9		+0.0	26.8	71.6	-44.8	Vert
2	1.603M	10.5	+0.1	+10.1	+0.9		+0.0	21.6	67.2	-45.6	Vert
3	994.644k	13.0	+0.1	+10.2	+0.9		+0.0	24.2	69.9	-45.7	Vert
4	923.560k	12.8	+0.1	+10.4	+0.9		+0.0	24.2	70.3	-46.1	Vert

5	1.626M	9.6	+0.1	+10.1	+0.9	+0.0	20.7	67.2	-46.5	Vert
6	1.304M	10.6	+0.1	+10.1	+0.9	+0.0	21.7	68.4	-46.7	Vert
7	1.515M	9.7	+0.1	+10.1	+0.9	+0.0	20.8	67.6	-46.8	Vert
8	1.559M	9.5	+0.1	+10.1	+0.9	+0.0	20.6	67.4	-46.8	Vert
9	1.407M	9.9	+0.1	+10.1	+0.9	+0.0	21.0	68.0	-47.0	Vert
10	1.542M	9.4	+0.1	+10.1	+0.9	+0.0	20.5	67.5	-47.0	Vert
11	1.501M	8.9	+0.1	+10.1	+0.9	+0.0	20.0	67.6	-47.6	Vert
12	1.534M	8.5	+0.1	+10.1	+0.9	+0.0	19.6	67.5	-47.9	Vert
13	373.705k	13.2	+0.1	+10.1	+0.9	+0.0	24.3	96.2	-71.9	Vert
14	467.787k	11.2	+0.1	+10.1	+0.9	+0.0	22.3	94.2	-71.9	Vert
15	336.073k	12.4	+0.1	+10.0	+0.9	+0.0	23.4	97.1	-73.7	Vert
16	425.973k	10.1	+0.1	+10.1	+0.9	+0.0	21.2	95.0	-73.8	Vert
17	486.603k	8.8	+0.1	+10.1	+0.9	+0.0	19.9	93.9	-74.0	Vert
18	451.061k	8.9	+0.1	+10.1	+0.9	+0.0	20.0	94.5	-74.5	Vert
19	400.884k	9.3	+0.1	+10.1	+0.9	+0.0	20.4	95.5	-75.1	Vert
20	413.429k	7.7	+0.1	+10.1	+0.9	+0.0	18.8	95.3	-76.5	Vert
21	308.893k	10.0	+0.1	+10.0	+0.9	+0.0	21.0	97.8	-76.8	Vert
22	241.991k	11.7	+0.1	+9.9	+0.9	+0.0	22.6	99.9	-77.3	Vert
23	300.531k	9.6	+0.1	+10.0	+0.9	+0.0	20.6	98.0	-77.4	Vert
24	181.361k	14.1	+0.1	+9.8	+0.9	+0.0	24.9	102.4	-77.5	Vert
25	269.170k	9.3	+0.1	+9.9	+0.9	+0.0	20.2	99.0	-78.8	Vert
26	264.989k	9.2	+0.1	+9.9	+0.9	+0.0	20.1	99.1	-79.0	Vert
27	210.630k	11.2	+0.1	+9.8	+0.9	+0.0	22.0	101.1	-79.1	Vert
28	256.626k	9.3	+0.1	+9.9	+0.9	+0.0	20.2	99.4	-79.2	Vert
29	218.993k	10.6	+0.1	+9.8	+0.9	+0.0	21.4	100.8	-79.4	Vert
30	150.000k	9.1	+0.1	+9.7	+0.9	+0.0	19.8	104.1	-84.3	Vert



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Test Location: CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Synapsense Corporation**
Specification: **FCC 15.247(d) / 15.209**
Work Order #: **90296** Date: 2/5/2010
Test Type: **Maximized Emissions** Time: 12:14:18
Equipment: **SynapStamp Radio Module** Sequence#: 15
Manufacturer: Synapsense Corporation Tested By: Chuck Kendall
Model: 11-0606-001
S/N: NA

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A	US44300407	08/07/2008	08/07/2010	02660
Bilog Antenna	2455	09/10/2009	09/10/2011	AN01992
HP-8447D Preamp	2727A05444	06/20/2008	06/20/2010	AN00062
Ans Cable	NA	01/26/2010	01/26/2012	AN03013
Andrew-25'	NA	05/19/2009	05/19/2011	AN01012

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-001	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

15.205/209 Spurious emissions
Tested with receiver activated to meet FCC 15.109 requirements
New batteries installed in +5dBm transceiver.
Frequencies of interest 30 -1000 MHz
70 ° Fahrenheit
35% Relative Humidity
Tx is transmitting on frequencies: 2405 MHz, 2445 MHz, & 2480 MHz
Module is in vertical position, atop foam, 80 cm from ground plane with the integral antenna.
Test Distance is 3m.
RBW=120kHz
VBW=360kHz

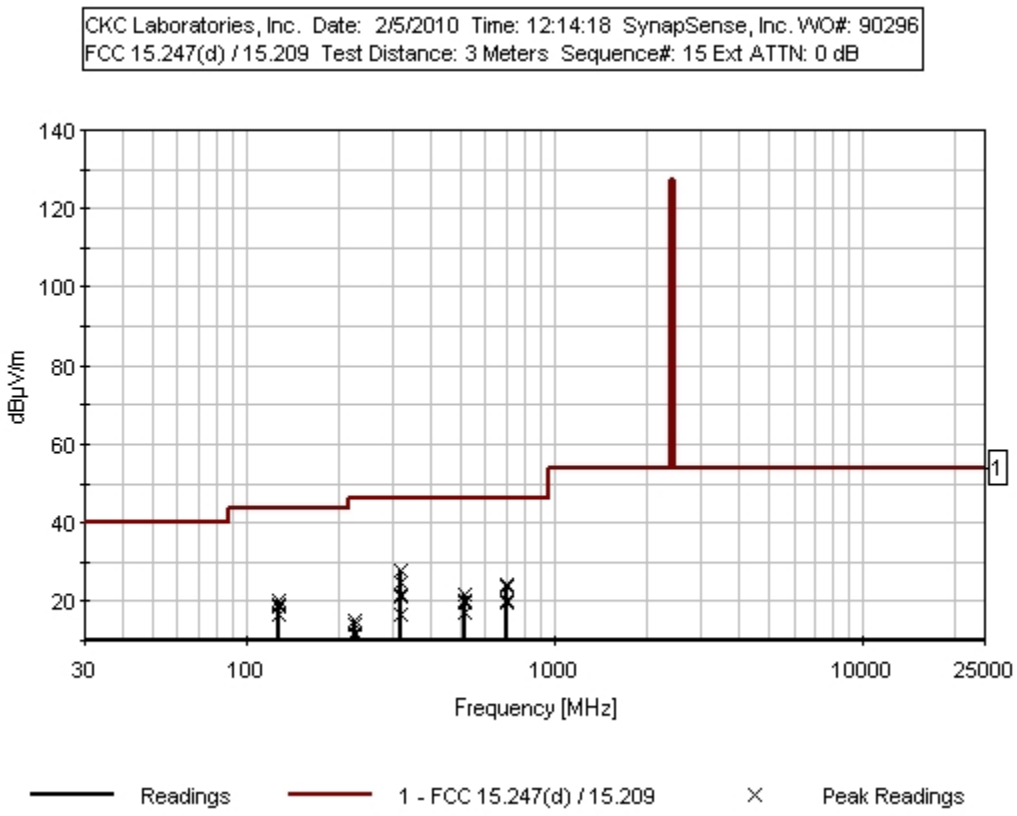
Transducer Legend:

T1=AMP-AN00062-062008	T2=ANT-AN01992-100909 25-1000MHz
T3=CAB-ANP01012-051909	T4=CAB-AN03013-40GHZ-3FT

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	320.012M	41.4	-29.7	+14.3	+1.3	+0.3	+0.0	27.6	46.0 Mid Ch	-18.4	Horiz
2	320.044M	38.5	-29.7	+14.3	+1.3	+0.3	+0.0	24.7	46.0 Lo Ch	-21.3	Horiz
3	704.078M	31.1	-30.3	+21.4	+1.5	+0.4	+0.0	24.1	46.0 Hi Freq	-21.9	Vert

4	703.971M	30.8	-30.3	+21.4	+1.5	+0.4	+0.0	23.8	46.0 Mid Ch	-22.2	Vert
5	704.044M	30.6	-30.3	+21.4	+1.5	+0.4	+0.0	23.6	46.0 Mid Ch	-22.4	Horiz
6	127.927M	38.1	-30.5	+11.5	+1.1	+0.2	+0.0	20.4	43.5 Hi Freq	-23.1	Vert
7	320.024M	35.6	-29.7	+14.3	+1.3	+0.3	+0.0	21.8	46.0 Mid Ch	-24.2	Vert
8	128.044M	36.9	-30.5	+11.5	+1.1	+0.2	+0.0	19.2	43.5 Lo Ch	-24.3	Vert
9	511.942M	31.6	-30.5	+18.8	+1.4	+0.3	+0.0	21.6	46.0 Hi Freq	-24.4	Vert
10	127.944M	36.6	-30.5	+11.5	+1.1	+0.2	+0.0	18.9	43.5 Mid Ch	-24.6	Horiz
11	128.045M	36.3	-30.5	+11.5	+1.1	+0.2	+0.0	18.6	43.5 Lo Ch	-24.9	Horiz
12	319.996M	34.8	-29.7	+14.3	+1.3	+0.3	+0.0	21.0	46.0 Hi Freq	-25.0	Vert
13	512.014M	30.3	-30.5	+18.8	+1.4	+0.3	+0.0	20.3	46.0 Mid Ch	-25.7	Vert
14	704.044M	27.1	-30.3	+21.4	+1.5	+0.4	+0.0	20.1	46.0 Lo Ch	-25.9	Vert
15	512.045M	29.8	-30.5	+18.8	+1.4	+0.3	+0.0	19.8	46.0 Lo Ch	-26.2	Horiz
16	511.944M	29.7	-30.5	+18.8	+1.4	+0.3	+0.0	19.7	46.0 Mid Ch	-26.3	Horiz
17	704.045M	26.5	-30.3	+21.4	+1.5	+0.4	+0.0	19.5	46.0 Lo Ch	-26.5	Horiz
18	127.843M	34.2	-30.5	+11.5	+1.1	+0.2	+0.0	16.5	43.5 Mid Ch	-27.0	Vert
19	512.044M	27.2	-30.5	+18.8	+1.4	+0.3	+0.0	17.2	46.0 Lo Ch	-28.8	Vert
20	320.043M	30.4	-29.7	+14.3	+1.3	+0.3	+0.0	16.6	46.0 Lo Ch	-29.4	Vert
21	224.041M	32.5	-29.8	+10.8	+1.2	+0.2	+0.0	14.9	46.0 Mid Ch	-31.1	Vert
22	224.044M	31.8	-29.8	+10.8	+1.2	+0.2	+0.0	14.2	46.0 Hi Freq	-31.8	Vert
23	224.001M	31.8	-29.8	+10.8	+1.2	+0.2	+0.0	14.2	46.0 Lo Ch	-31.8	Horiz
24	223.943M	29.6	-29.8	+10.8	+1.2	+0.2	+0.0	12.0	46.0 Mid Ch	-34.0	Horiz
25	224.043M	28.9	-29.8	+10.8	+1.2	+0.2	+0.0	11.3	46.0 Lo Ch	-34.7	Vert



Note: Since the time of testing, it has come to CKC Laboratories attention; the above company name should read Synapsense Corporation, and not SynapSense, Inc. The above plot screen capture was taken at the time of testing and cannot be changed.

Test Location:	CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240		
Customer:	**Synapsense Corporation**		
Specification:	**FCC 15.209**		
Work Order #:	**90296**	Date:	2/5/2010
Test Type:	**Maximized Emissions**	Time:	13:53:49
Equipment:	**SynapStamp Radio Module**	Sequence#:	17
Manufacturer:	Synapsense Corporation	Tested By:	Chuck Kendall
Model:	11-0606-001		
S/N:	NA		

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A	US44300407	08/07/2008	08/07/2010	02660
Andrew-25'	NA	05/19/2009	05/19/2011	AN01012
Horn Antenna	3413	06/06/2008	06/06/2010	AN00327
HP Preamp 83017A	000009031	07/17/2009	07/17/2011	3155
Ans Cable	NA	01/26/2010	01/26/2012	AN03012
Horn Antenna 18-26GHz	01005	11/13/2008	11/13/2010	AN02046

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-001	NA

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

15.247(d))/15.205/209 Spurious emissions
Tested with receiver activated to meet FCC 15.109 requirements
New batteries installed in +5dBm transceiver.
Frequencies of interest 1-25 GHz
58 ° Fahrenheit
35% Relative Humidity
Tx is transmitting on frequencies: 2405 MHz, 2445 MHz, & 2480 MHz
Module is in the vertical position atop foam, 80 cm from ground plane with the internal antenna.
Final BWs:
RBW=1MHz
VBW=3MHz

Transducer Legend:

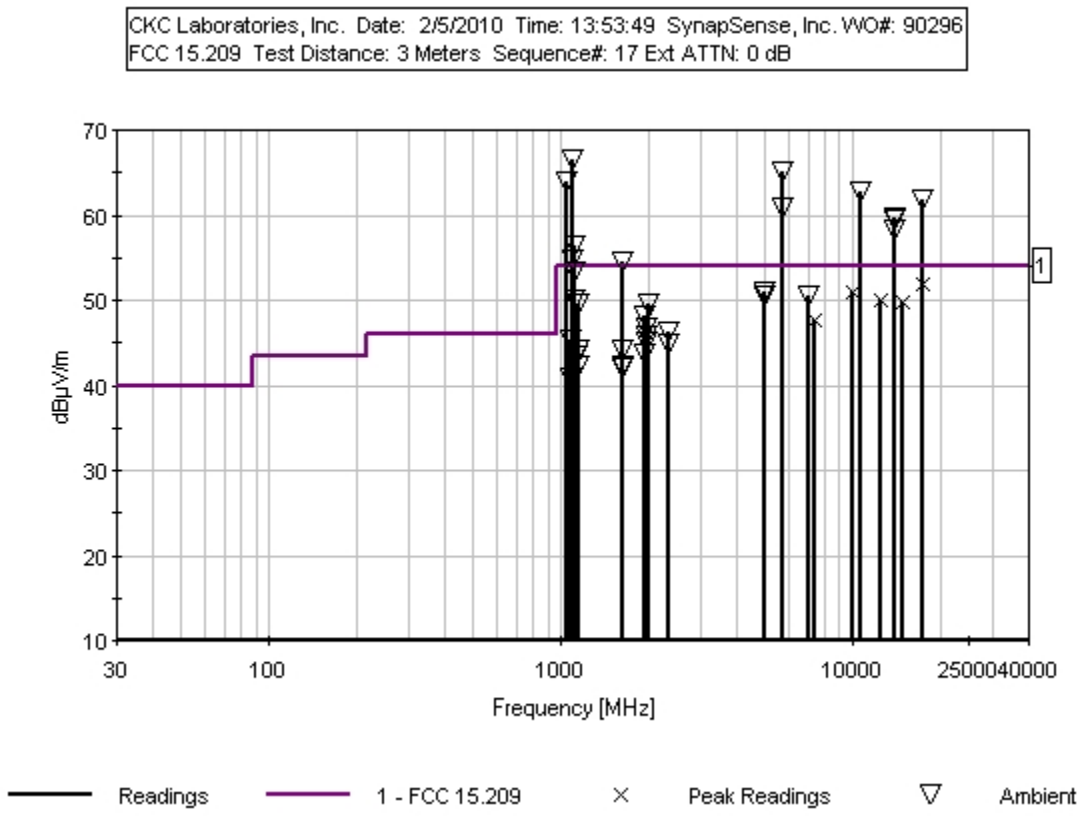
T1=CAB-ANP01012-051909	T2=Amp AN03155 to 26.5GHz
T3=ANT AN00327 1GHz-18GHz	T4=CAB-AN03012-40GHZ-3FT

Measurement Data: Reading listed by margin. Test Distance: 3 Meters

#	Freq MHz	Rdng dBµV	T1 dB	T2 dB	T3 dB	T4 dB	Dist Table	Corr dBµV/m	Spec dBµV/m	Margin dB	Polar Ant
1	1089.600M Ambient	76.5	+1.6	-36.0	+24.0	+0.4	+0.0	66.5	54.0	+12.5	Horiz
2	5748.000M Ambient	60.3	+3.3	-33.4	+34.0	+0.9	+0.0	65.1	54.0	+11.1	Horiz
3	1046.200M Ambient	74.2	+1.6	-36.3	+23.9	+0.4	+0.0	63.8	54.0	+9.8	Horiz

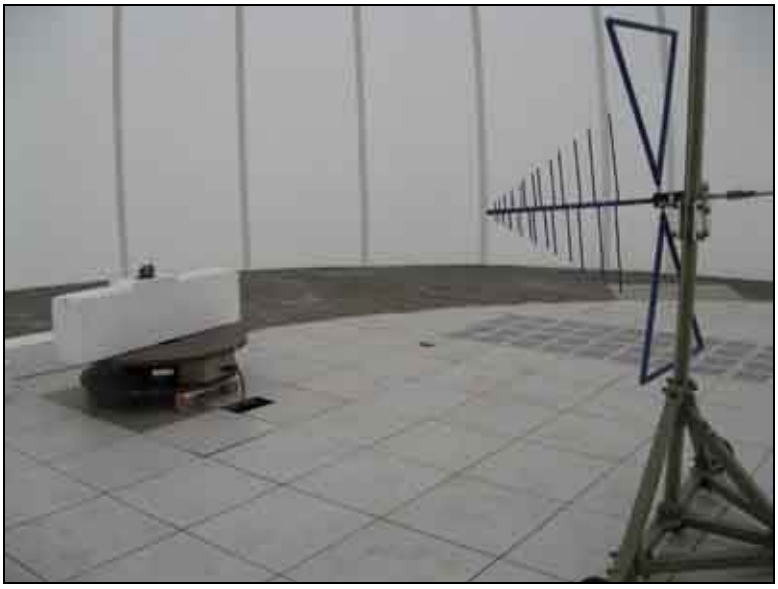
4	10544.000 M Ambient	52.5	+4.6	-33.6	+38.2	+1.1	+0.0	62.8	54.0	+8.8	Horiz
5	17389.000 M Ambient	44.7	+6.3	-33.2	+42.5	+1.5	+0.0	61.8	54.0	+7.8	Horiz
6	5771.000M Ambient	55.9	+3.4	-33.4	+34.0	+0.9	+0.0	60.8	54.0	+6.8	Vert
7	13922.000 M Ambient	46.2	+5.1	-33.4	+40.4	+1.4	+0.0	59.7	54.0	+5.7	Vert
8	13809.000 M Ambient	45.8	+5.3	-33.3	+40.3	+1.4	+0.0	59.5	54.0	+5.5	Horiz
9	13944.000 M Ambient	44.8	+5.1	-33.4	+40.4	+1.4	+0.0	58.3	54.0	+4.3	Vert
10	1105.000M Ambient	66.0	+1.6	-35.9	+24.1	+0.4	+0.0	56.2	54.0	+2.2	Vert
11	1089.600M Ambient	64.7	+1.6	-36.0	+24.0	+0.4	+0.0	54.7	54.0	+0.7	Vert
12	1625.800M Ambient	60.9	+1.9	-34.5	+25.6	+0.5	+0.0	54.4	54.0	+0.4	Vert
13	1119.000M Ambient	63.0	+1.6	-35.8	+24.1	+0.4	+0.0	53.3	54.0	-0.7	Vert
14	17360.000 M	35.2	+6.3	-33.3	+42.3	+1.5	+0.0	52.0	54.0 7th Hi Ch	-2.0	Vert
15	9920.000M	40.5	+4.5	-33.3	+38.2	+1.1	+0.0	51.0	54.0 4th Hi Ch	-3.0	Vert
16	4960.000M Ambient	46.9	+2.7	-33.0	+33.5	+0.8	+0.0	50.9	54.0	-3.1	Vert
17	4960.000M Ambient	46.6	+2.7	-33.0	+33.5	+0.8	+0.0	50.6	54.0	-3.4	Vert
18	7054.000M Ambient	43.2	+4.5	-33.5	+35.3	+1.0	+0.0	50.5	54.0	-3.5	Horiz
19	7077.000M Ambient	43.1	+4.4	-33.5	+35.4	+1.0	+0.0	50.4	54.0	-3.6	Vert
20	1110.600M Ambient	59.9	+1.6	-35.9	+24.1	+0.4	+0.0	50.1	54.0	-3.9	Horiz
21	12400.000 M	37.8	+5.7	-33.7	+38.9	+1.3	+0.0	50.0	54.0 5th Hi Ch	-4.0	Vert
22	14880.000 M	35.2	+5.9	-33.5	+40.8	+1.4	+0.0	49.8	54.0 6th Hi Ch	-4.2	Vert
23	1149.800M Ambient	59.0	+1.7	-35.7	+24.2	+0.4	+0.0	49.6	54.0	-4.4	Horiz
24	1985.600M Ambient	53.6	+2.1	-34.0	+27.4	+0.5	+0.0	49.6	54.0	-4.4	Vert
25	1931.000M Ambient	52.4	+2.0	-34.1	+27.2	+0.5	+0.0	48.0	54.0	-6.0	Vert

26	7440.000M	40.6	+3.6	-33.6	+36.1	+1.0	+0.0	47.7	54.0 3rd Hi Ch	-6.3	Vert
27	1973.000M Ambient	50.6	+2.1	-34.0	+27.4	+0.5	+0.0	46.6	54.0	-7.4	Vert
28	2335.600M Ambient	49.2	+2.1	-33.8	+28.2	+0.6	+0.0	46.3	54.0	-7.7	Horiz
29	1952.000M Ambient	49.8	+2.1	-34.0	+27.3	+0.5	+0.0	45.7	54.0	-8.3	Vert
30	1074.200M Ambient	55.4	+1.6	-36.1	+24.0	+0.4	+0.0	45.3	54.0	-8.7	Horiz
31	1971.600M Ambient	49.0	+2.1	-34.0	+27.4	+0.5	+0.0	45.0	54.0	-9.0	Horiz
32	2323.000M Ambient	47.7	+2.1	-33.8	+28.2	+0.6	+0.0	44.8	54.0	-9.2	Vert
33	1616.000M Ambient	50.6	+1.9	-34.5	+25.6	+0.5	+0.0	44.1	54.0	-9.9	Vert
34	1141.400M Ambient	53.5	+1.6	-35.7	+24.2	+0.4	+0.0	44.0	54.0	-10.0	Vert
35	1932.400M Ambient	48.1	+2.0	-34.1	+27.2	+0.5	+0.0	43.7	54.0	-10.3	Horiz
36	1124.600M Ambient	53.1	+1.6	-35.8	+24.1	+0.4	+0.0	43.4	54.0	-10.6	Vert
37	1617.400M Ambient	48.7	+1.9	-34.5	+25.6	+0.5	+0.0	42.2	54.0	-11.8	Horiz
38	1142.800M Ambient	51.6	+1.6	-35.7	+24.2	+0.4	+0.0	42.1	54.0	-11.9	Horiz
39	1625.800M Ambient	48.5	+1.9	-34.5	+25.6	+0.5	+0.0	42.0	54.0	-12.0	Horiz
40	1079.800M Ambient	50.8	+1.6	-36.0	+24.0	+0.4	+0.0	40.8	54.0	-13.2	Horiz



Note: Since the time of testing, it has come to CKC Laboratories attention; the above company name should read Synapsense Corporation, and not SynapSense, Inc. The above plot screen capture was taken at the time of testing and cannot be changed.

Test Setup Photos



15.247(d) Band Edge

Test Location: CKC Laboratories, Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **SynapSense, Inc.**
Specification: **FCC 15.247(d) / 15.209**
Work Order #: **90296** Date: 4/16/2010
Test Type: **Maximized Emissions** Time: 12:19:07
Equipment: **SynapStamp Radio Module** Sequence#: 14
Manufacturer: SynapSense, Inc. Tested By: Chuck Kendall
Model: 11-0606-001
S/N: N/A

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02660	Spectrum Analyzer	E4446A	8/7/2008	8/7/2010
T1	ANP01012	Cable	PNMNM	5/19/2009	5/19/2011
T2	AN03012	Cable	32022-2-29094K-36TC	1/26/2010	1/26/2012
T3	AN03155	Preamp	83017A	7/17/2009	7/17/2011
T4	AN00327	Horn Antenna	3115	6/6/2008	6/6/2010
T5	ANP01403	Cable	58758-23	6/10/2009	6/10/2011
T6	ANdBm	Unit Conversion		4/12/2010	4/12/2012

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	SynapSense, Inc.	11-0606-001	N/A
SynapStamp Radio Module	SynapSense, Inc.	11-0606-011	N/A

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

15.247(d) Bandedge
New batteries installed in +5dBm transceiver.
58ºF
35% relative humidity
Tx is transmitting on frequencies: 2405 MHz & 2480 MHz

Duty Cycle Correction Factor = 20 Log (0.247ms/100ms) or -32dB

Module is atop foam, 80 cm from ground plane with the external antenna,
RBW=1 MHz
VBW=1MHz

Ext Attn: 0 dB

Measurement Data: Reading listed by order taken. Test Distance: 3 Meters

#	Freq	Rdng	T1 T5	T2 T6	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	2480.484M	94.7	+2.2 +2.5	+0.6 +0.0	-33.7	+28.5	+0.0	94.8	127.0	-32.2	Vert
2	2479.548M	94.4	+2.2 +2.5	+0.6 -32.0	-33.7	+28.5	+0.0	62.5	127.0	-64.5	Vert
3	2404.475M	92.4	+2.2 +2.4	+0.6 +0.0	-33.8	+28.3	+0.0	92.1	127.0	-34.9	Vert
4	2402.500M	71.3	+2.2 +2.4	+0.6 +0.0	-33.8	+28.3	+0.0	71.0	127.0	-56.0	Vert
5	2404.500M	92.4	+2.2 +2.4	+0.6 -32.0	-33.8	+28.3	+0.0	60.1	127.0	-66.9	Vert

Test Location: CKC Laboratories, Inc. • 5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **SynapSense, Inc.**
Specification: **FCC 15.247(d) / 15.209**
Work Order #: **90296** Date: 4/23/2010
Test Type: **Maximized Emissions** Time: 15:48:48
Equipment: **SynapStamp Radio Module** Sequence#: 15
Manufacturer: SynapSense, Inc. Tested By: Chuck Kendall
Model: 11-0606-011
S/N: N/A

***Test Equipment*:**

ID	Asset #	Description	Model	Calibration Date	Cal Due Date
	AN02660	Spectrum Analyzer	E4446A	8/7/2008	8/7/2010
	ANP01012	Cable	PNMNM	5/19/2009	5/19/2011
T1	AN03012	Cable	32022-2-29094K-36TC	1/26/2010	1/26/2012
T2	AN03155	Preamp	83017A	7/17/2009	7/17/2011
T3	AN00327	Horn Antenna	3115	6/6/2008	6/6/2010
	ANP01403	Cable	58758-23	6/10/2009	6/10/2011
T4	ANdBm	Unit Conversion		4/12/2010	4/12/2012
T5	ANP05904	Cable	32022-2-29094K-144TC	6/9/2009	6/9/2011

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module	SynapSense, Inc.	11-0606-001	N/A
SynapStamp Radio Module*	SynapSense, Inc.	11-0606-011	N/A

Support Devices:

Function	Manufacturer	Model #	S/N

Test Conditions / Notes:

15.247(d) Bandedge
New batteries installed in +5dBm transceiver.
72ºF
30% relative humidity
Tx is transmitting on frequencies: 2405 MHz & 2480 MHz

Duty Cycle Correction Factor = 20 Log (0.247ms/100ms) or -32dB

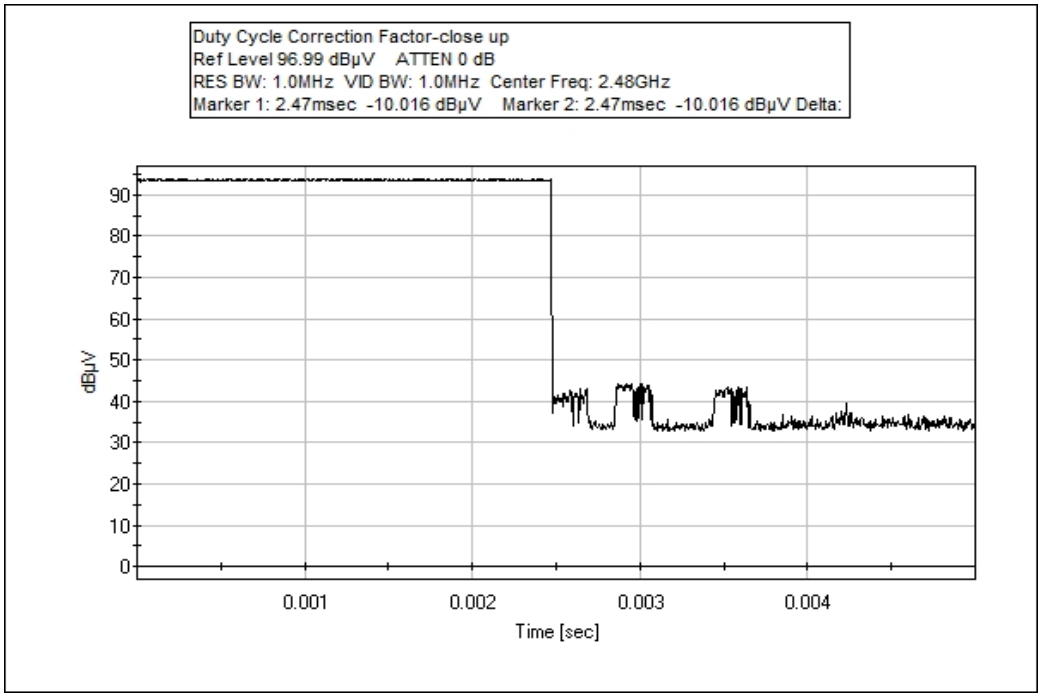
Module is atop foam, 80 cm from ground plane with the internal antenna,
RBW=1 MHz
VBW=1 MHz

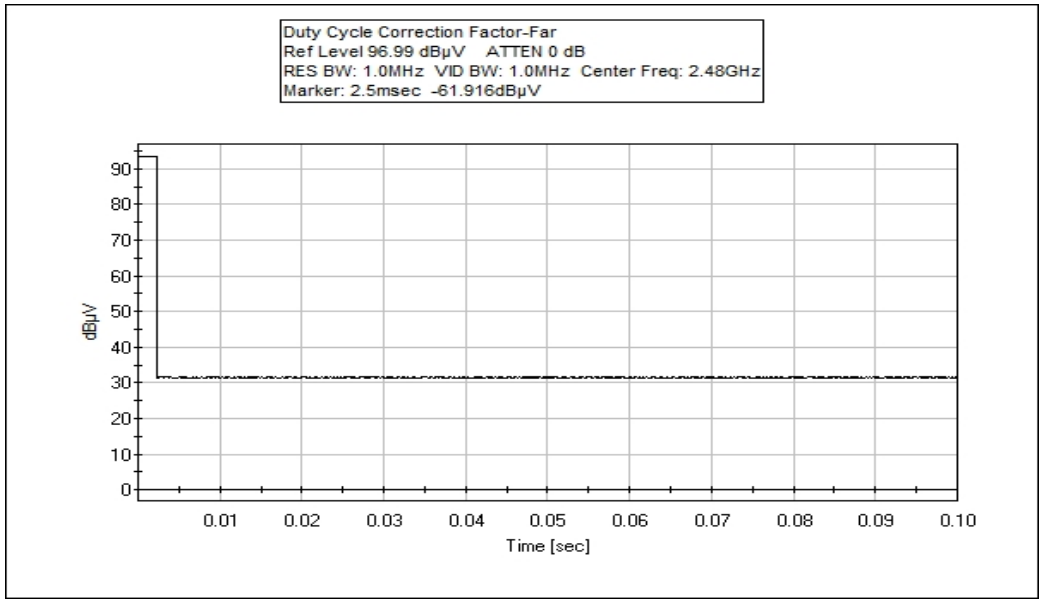
Ext Attn: 0 dB

Measurement Data: Reading listed by order taken. Test Distance: 3 Meters

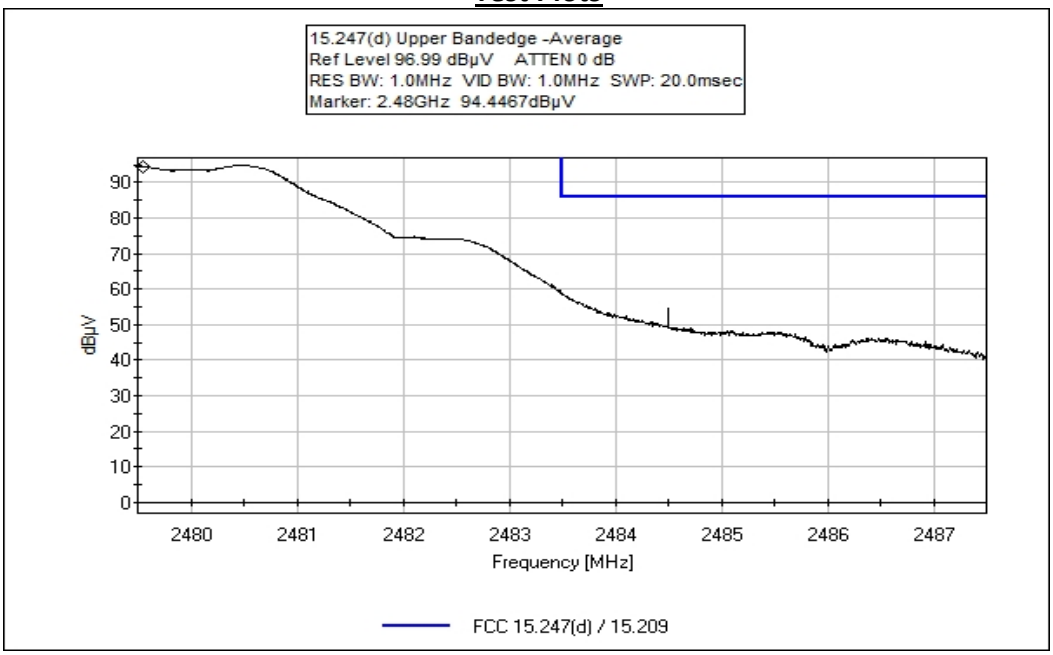
#	Freq	Rdng	T1 T5	T2	T3	T4	Dist	Corr	Spec	Margin	Polar
	MHz	dBµV	dB	dB	dB	dB	Table	dBµV/m	dBµV/m	dB	Ant
1	2479.460M	67.7	+0.6 +2.3	-33.7	+28.5	+0.0	+0.0	65.4	127.0	-61.6	Vert
2	2479.460M	67.7	+0.6 +2.3	-33.7	+28.5	-32.0	+0.0	33.4	127.0	-93.6	Vert
3	2404.425M	68.8	+0.6 +2.2	-33.8	+28.3	-32.0	+0.0	34.1	127.0	-92.9	Vert
4	2404.425M	68.8	+0.6 +2.2	-33.8	+28.3	+0.0	+0.0	66.1	127.0	-60.9	Vert

Duty Cycle Correction Factor – Close-up & Far

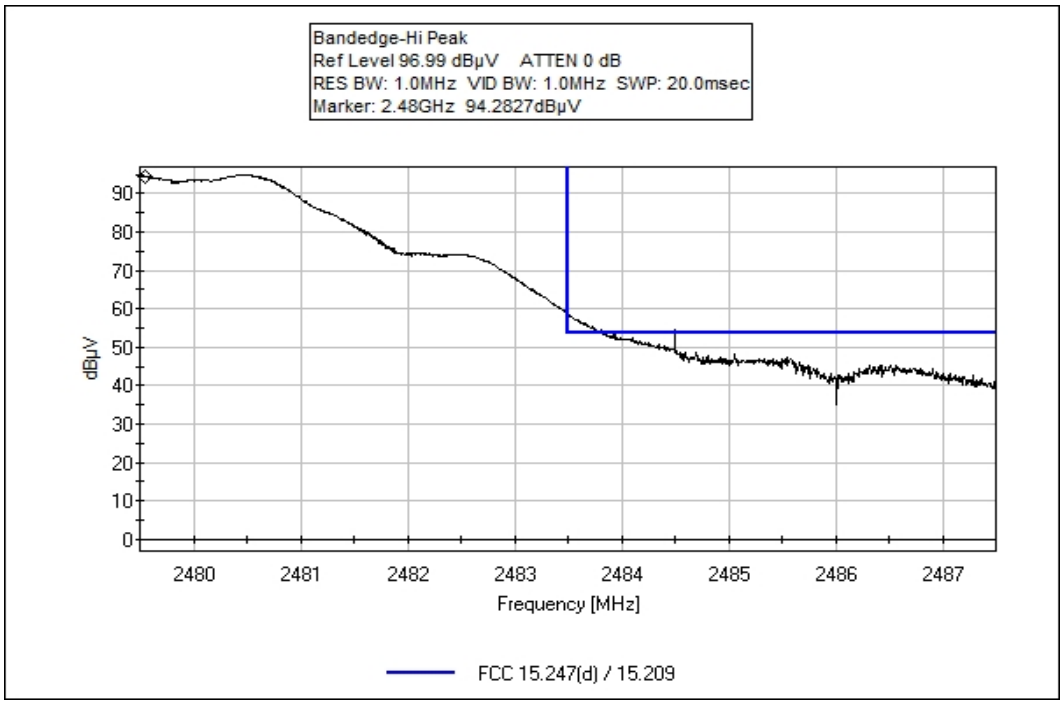




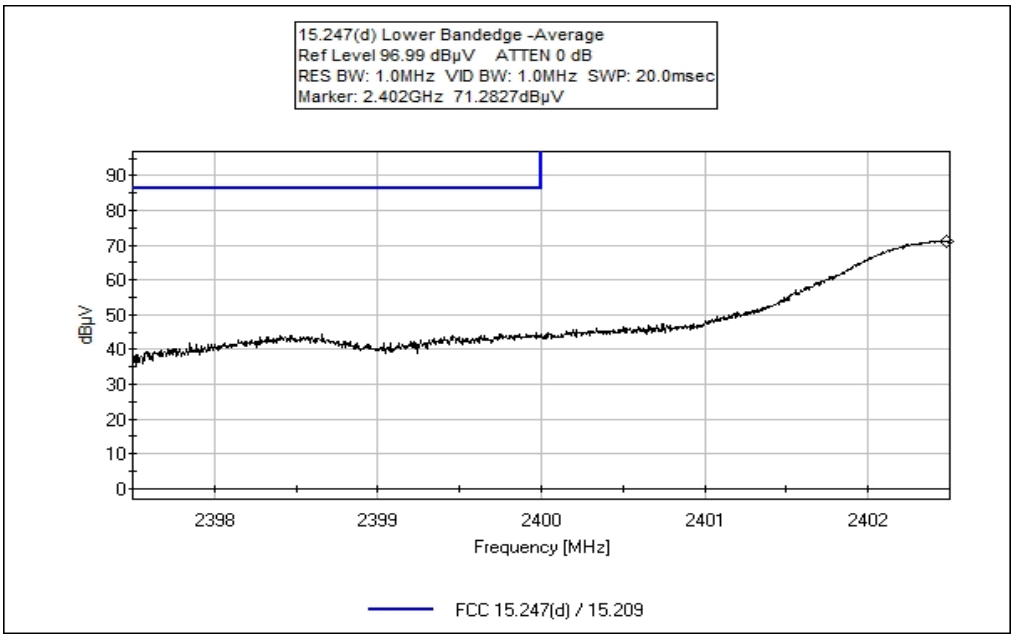
Test Plots



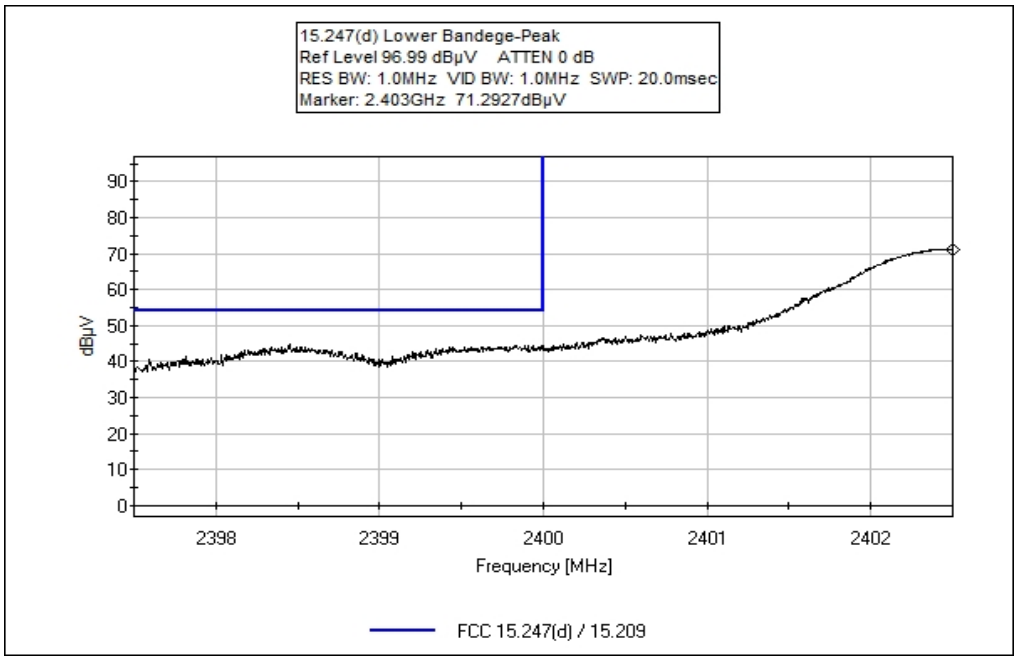
15.247(d) Band Edge-V-Upper Channel-Ext Ant (Radiated Emissions-Average Measurement)



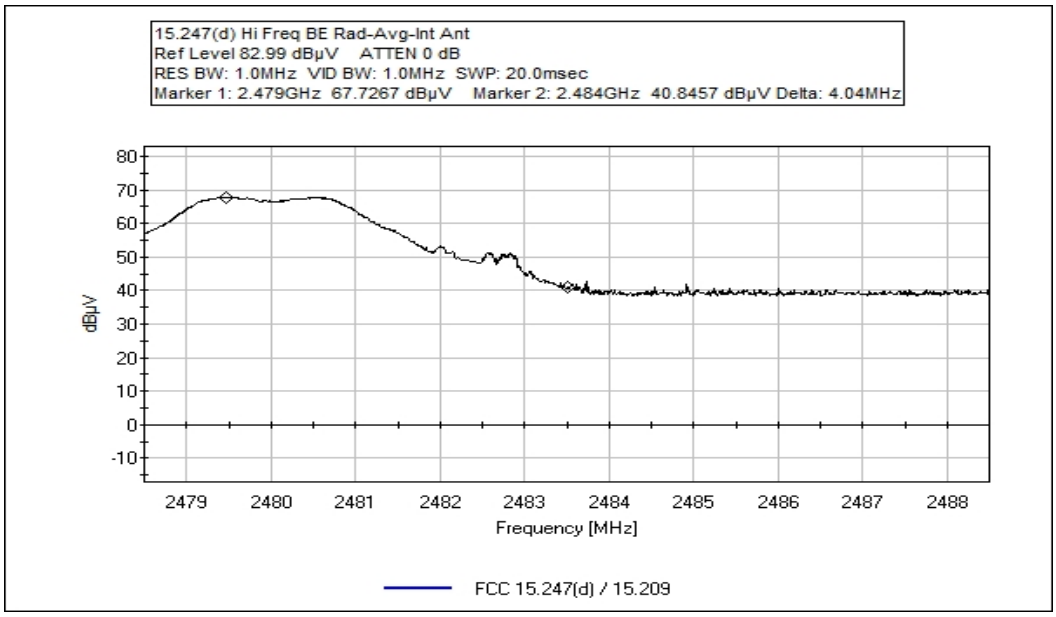
15.247(d) Band Edge-V-Upper Channel-Ext Ant (Radiated Emissions-Peak Measurement)



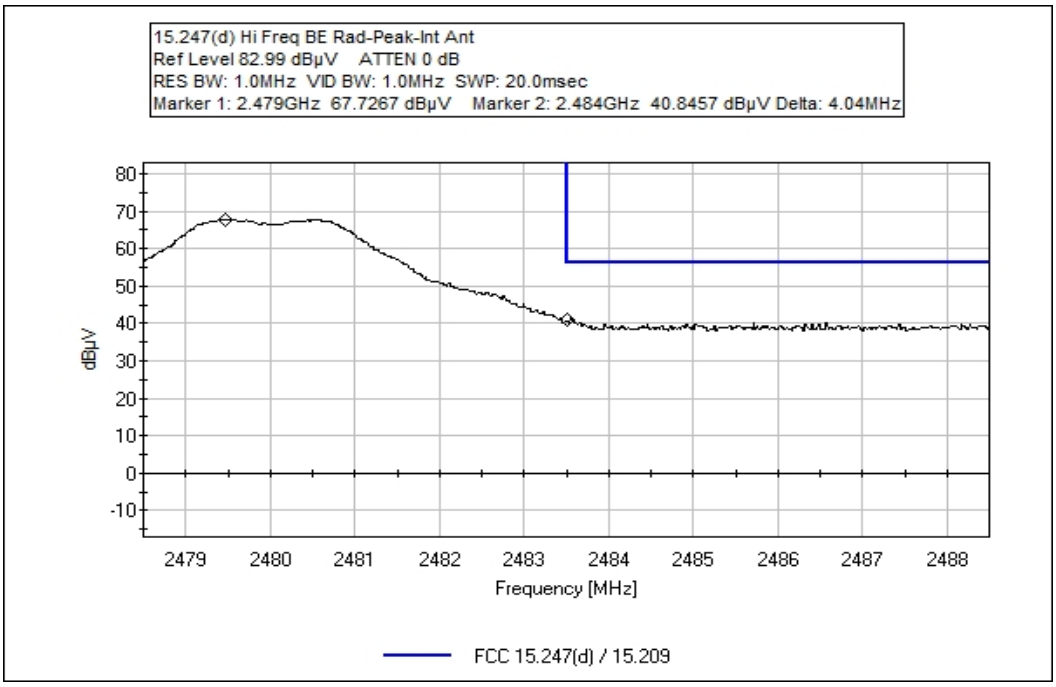
15.247(d) Band Edge-V-Lower Channel-Ext Ant (Radiated Emissions-Average Measurement)



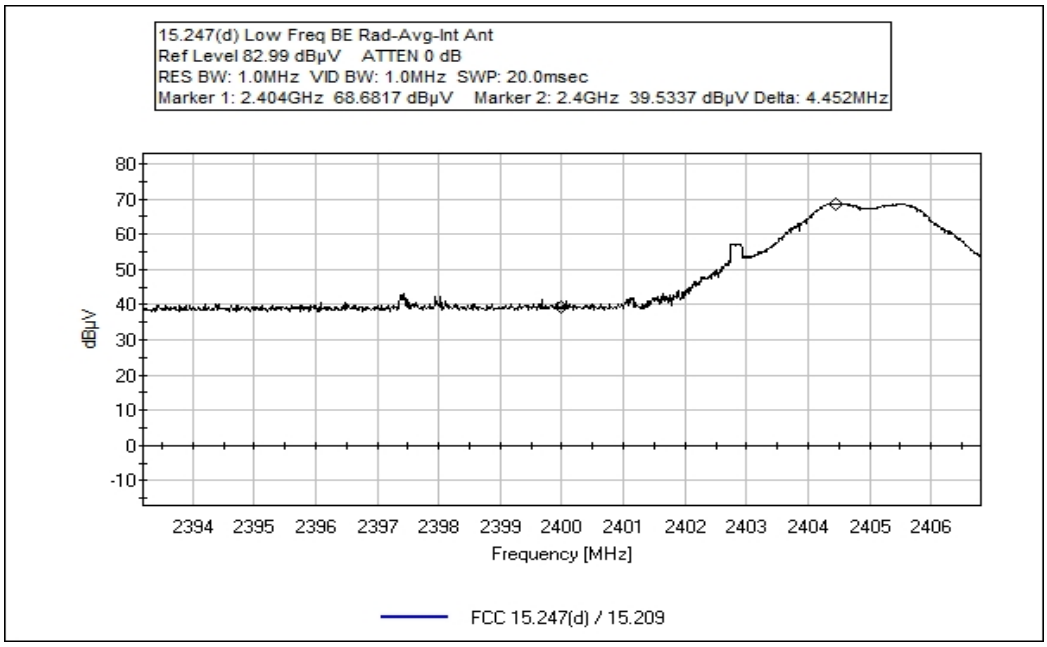
15.247(d) Band Edge-V-Lower Channel-Ext Ant (Radiated Emissions-Peak Measurement)



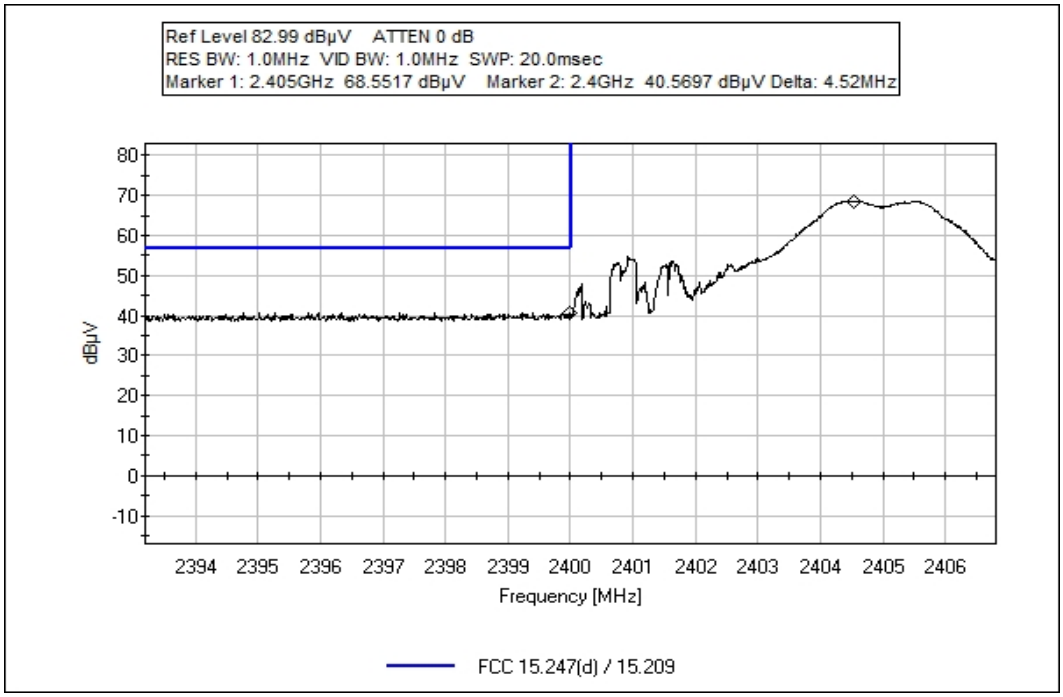
15.247(d) Band Edge-V-Upper Channel-Int Ant (Radiated Emissions-Average Measurement)



15.247(d) Band Edge-V-Upper Channel-Int Ant (Radiated Emissions-Peak Measurement)



15.247(d) Band Edge-V-Lower Channel-Int Ant (Radiated Emissions-Average Measurement)



15.247(d) Band Edge-V-Lower Channel-Int Ant (Radiated Emissions-Peak Measurement)

Test Setup Photos

15.247(e) Peak Power Spectral Density

Test Equipment				
Equipment	**Serial**	**Cal Date**	**Cal Due**	**Asset**
E4446A	US44300407	08/07/2008	08/07/2010	02660

Test Location: CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Synapsense Corporation**
Specification: **15.247(d) Peak Power Spectral Density**
Work Order #: **90296** Date: 2/3/2010
Test Type: **Radiated Scan** Time: 12:15:57
Equipment: **SynapStamp Radio Module** Sequence#: 5
Manufacturer: Synapsense Corporation Tested By: Chuck Kendall
Model: 11-0606-011
S/N: NA

***Test Equipment*:**

Function	S/N	Calibration Date	Cal Due Date	Asset #
E4446A	US44300407	08/07/2008	08/07/2010	02660

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-011	NA

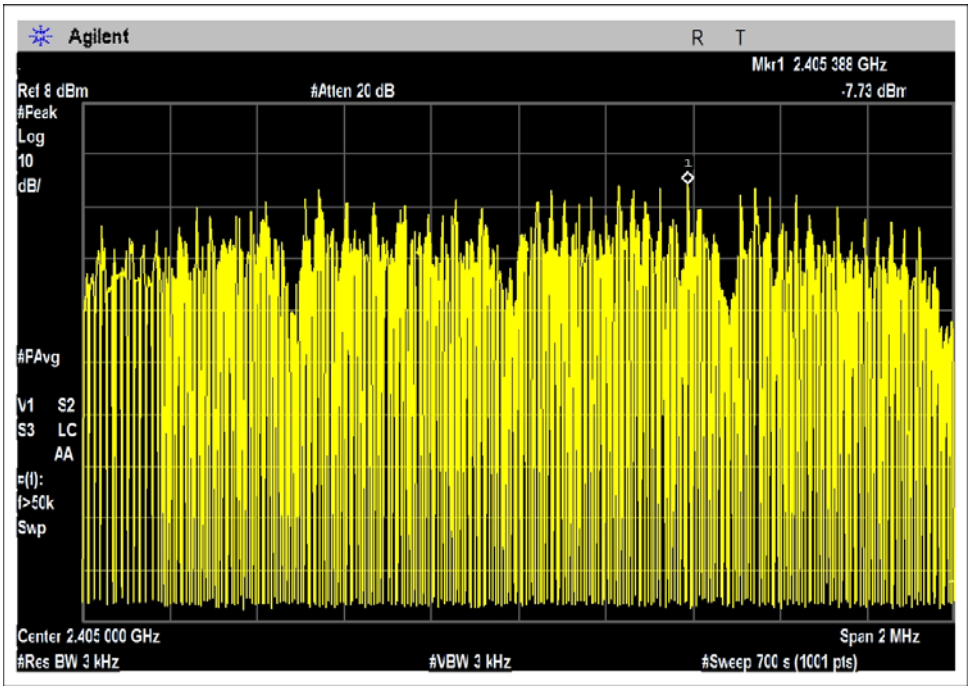
Support Devices:

Function	Manufacturer	Model #	S/N

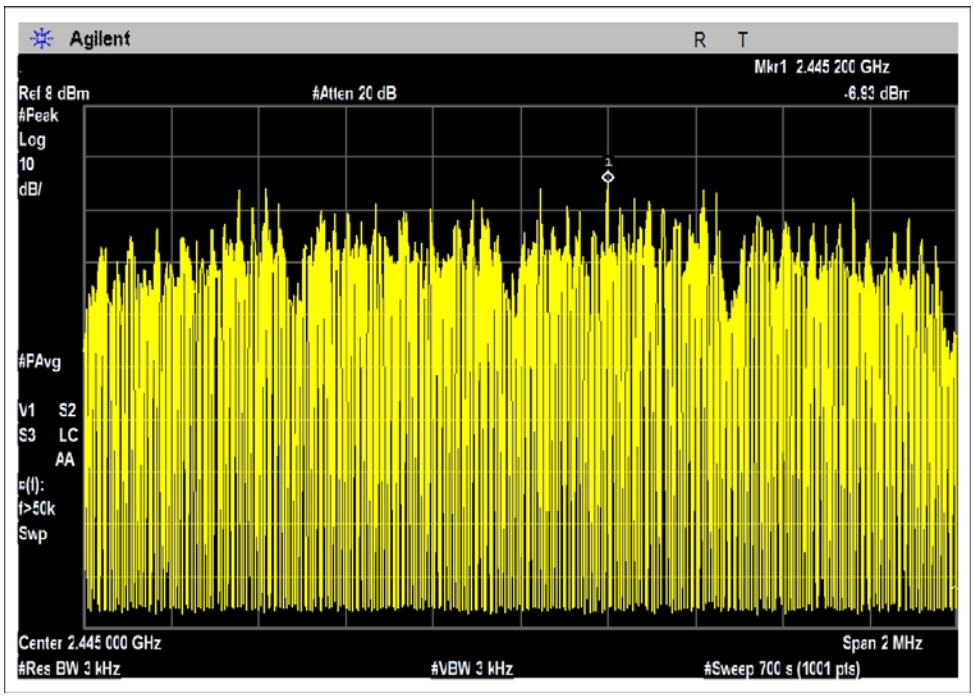
Test Conditions / Notes:

15.247(d) Peak Power Spectral Density Conducted
New batteries installed in +5dBm transceiver.
Frequencies of interest 2405-2480 MHz
70° Fahrenheit
35% Relative Humidity
Module is atop a plastic case. Antenna cable is directly connected to the S/A.
RBW = 3kHz
VBW = 3kHz
Span =2MHz
Sweep time = 2MHz/3kHz or 667seconds (rounded it off to 700 seconds for these measurement

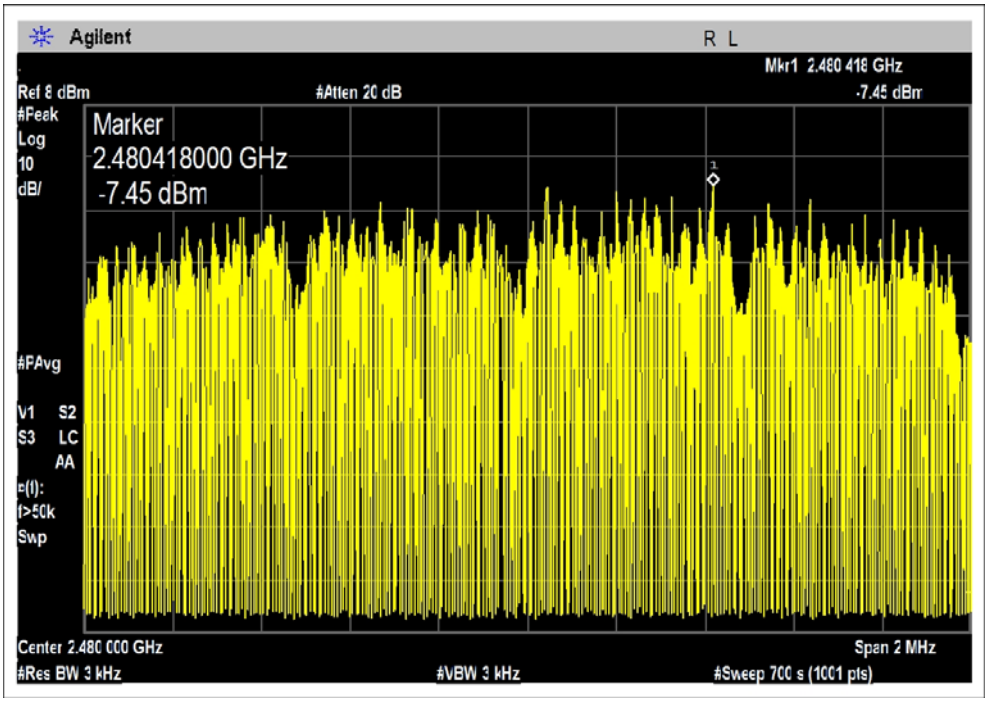
Test Plots



15.247(d) Peak Power Spectral Density-Low Channel



15.247(d) Peak Power Spectral Density-Mid Channel



15.247(d) Peak Power Spectral Density-High Channel

Test Setup Photos

RSS-210 99% Bandwidth

Test Equipment				
Equipment	**Serial**	**Cal Date**	**Cal Due**	**Asset**
E4446A	US44300407	08/07/2008	08/07/2010	02660

Test Location: CKC Laboratories, Inc. •5046 Sierra Pines Drive • Mariposa, CA 95338 • (209) 966-5240

Customer: **Synapsense Corporation**
Specification: **99% Bandwidth**
Work Order #: **90296** Date: 2/3/2010
Test Type: **Radiated Scan** Time: 15:46:52
Equipment: **SynapStamp Radio Module**
Manufacturer: Synapsense Corporation Tested By: Chuck Kendall

Model: 11-0606-011
S/N: NA

***Equipment Under Test* (* = EUT):**

Function	Manufacturer	Model #	S/N
SynapStamp Radio Module*	Synapsense Corporation	11-0606-011	NA

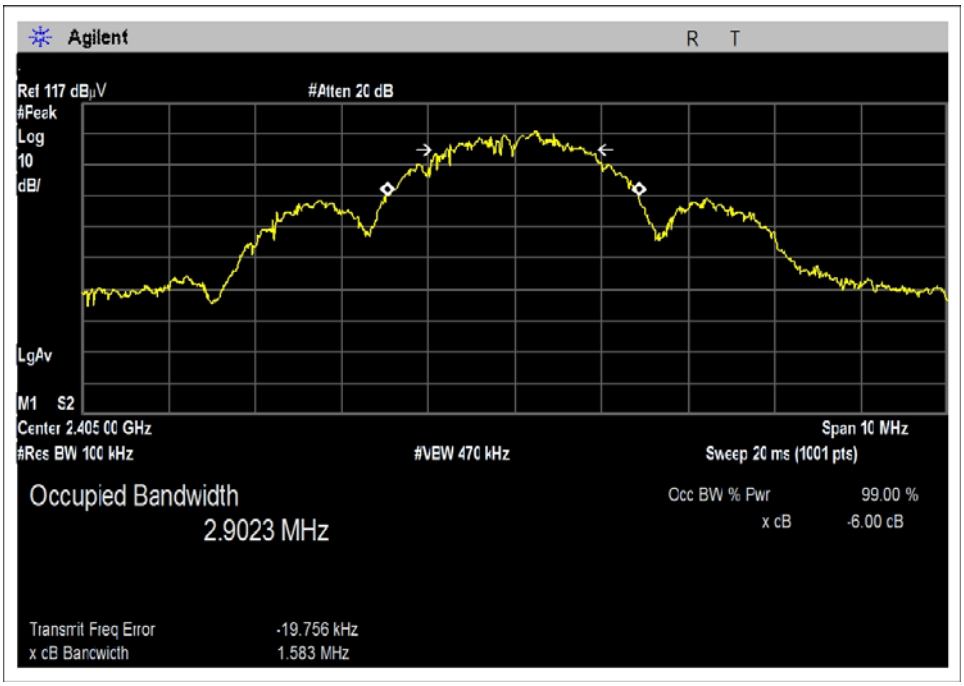
Test Conditions / Notes:

99% Bandwidth
New batteries installed in +5dBm transceiver.
Frequencies of interest 2405-2480 MHz
70 °Fahrenheit
35% Relative Humidity
Module is atop a plastic case. Antenna cable is directly connected to the S/A.

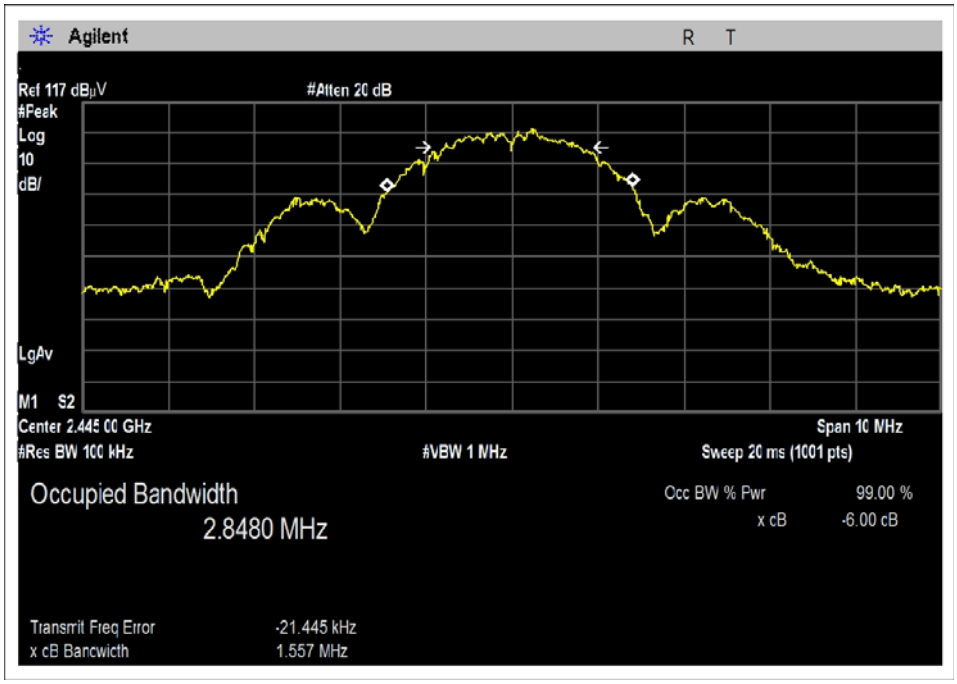
Test Data

Frequency (MHz)	6 BW (MHz)	99% BW (MHz)	26 dB BW (MHz)
2405	1.583	2.9023	5.140
2445	1.557	2.8480	5.332
2480	1.647	2.8435	5.191

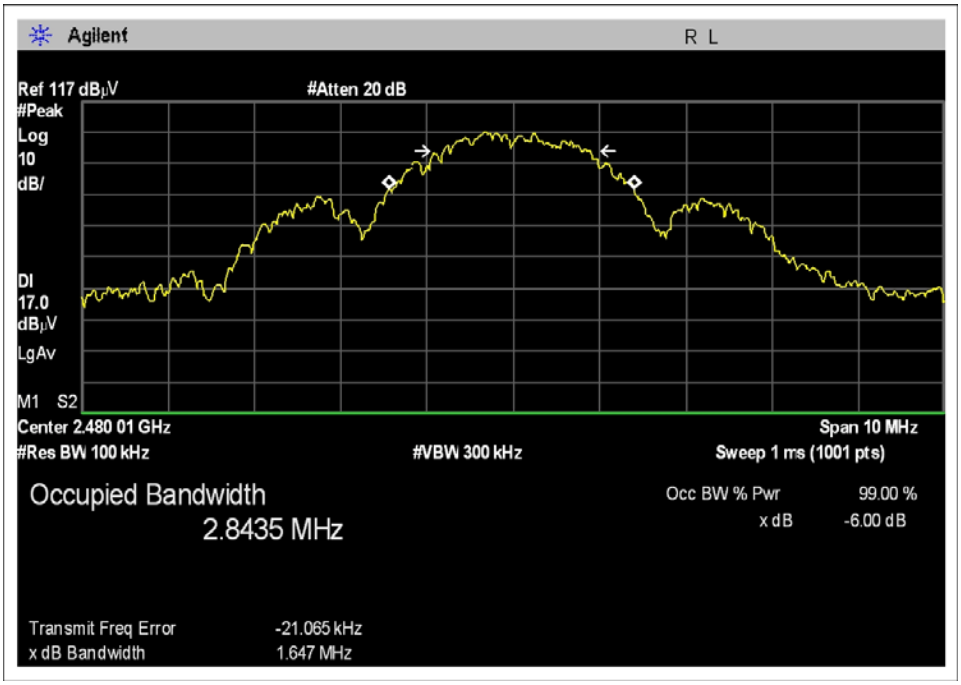
Test Plots



Occupied Bandwidth-99%+(-6dB)-Low Channel



Occupied Bandwidth-99%+(-6dB)-Mid Channel



Occupied Bandwidth-99%+(-6dB)-High Channel

Test Setup Photos

SUPPLEMENTAL INFORMATION

Measurement Uncertainty

Uncertainty Value	Parameter
4.73 dB	Radiated Emissions
3.34 dB	Mains Conducted Emissions
3.30 dB	Disturbance Power

The reported measurement uncertainties are calculated based on the worst case of all laboratory environments from CKC Laboratories, Inc. test sites. Only those parameters which require estimation of measurement uncertainty are reported. The reported worst case measurement uncertainty is less than the maximum values derived in CISPR 16-4-2. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k=2. Compliance is deemed to occur provided measurements are below the specified limits.

Emissions Test Details

TESTING PARAMETERS

The cables were routed consistent with the typical application by varying the configuration of the test sample. Interface cables were connected to the available ports of the test unit. The effect of varying the position of the cables was investigated to find the configuration that produced maximum emissions. Cables were of the type and length specified in the individual requirements. The length of cable that produced maximum emissions was selected.

The equipment under test (EUT) was set up in a manner that represented its normal use, as shown in the setup photographs. Any special conditions required for the EUT to operate normally are identified in the comments that accompany the emissions tables.

The emissions data was taken with a spectrum analyzer or receiver. Incorporating the applicable correction factors for distance, antenna, cable loss and amplifier gain, the data was reduced as shown in the table below. The corrected data was then compared to the applicable emission limits. Preliminary and final measurements were taken in order to ensure that all emissions from the EUT were found and maximized.

CORRECTION FACTORS

The basic spectrum analyzer reading was converted using correction factors as shown in the highest emissions readings in the tables. For radiated emissions in dBµV/m, the spectrum analyzer reading in dBµV was corrected by using the following formula. This reading was then compared to the applicable specification limit.

SAMPLE CALCULATIONS		
	Meter reading	(dBµV)
+	Antenna Factor	(dB)
+	Cable Loss	(dB)
-	Distance Correction	(dB)
-	Preamplifier Gain	(dB)
=	Corrected Reading	(dBµV/m)

TEST INSTRUMENTATION AND ANALYZER SETTINGS

The test instrumentation and equipment listed were used to collect the emissions data. A spectrum analyzer or receiver was used for all measurements. For testing emissions, an appropriate reference level and a vertical scale size of 10 dB per division were used.

SPECTRUM ANALYZER/RECEIVER DETECTOR FUNCTIONS

The notes that accompany the measurements contained in the emissions tables indicate the type of detector function used to obtain the given readings. Unless otherwise noted, all readings were made in the "Peak" mode. Whenever a "Quasi-Peak" or "Average" reading is listed as one of the highest readings, this is indicated as a "QP" or an "Ave" on the appropriate rows of the data sheets. The following paragraphs describe in more detail the detector functions and when they were used to obtain the emissions data.

Peak

In this mode, the spectrum analyzer/receiver readings recorded all emissions at their peak value as the frequency band selected was scanned. By combining this function with another feature of the measuring device called "peak hold," the measuring device had the ability to measure transients or low duty cycle transient emission peak levels. In this mode the measuring device made a slow scan across the frequency band selected and measured the peak emission value found at each frequency across the band.

Quasi-Peak

When the true peak values exceeded or were within 2 dB of the specification limit, quasi-peak measurements were taken using the quasi-peak detector.

Average

For certain frequencies, average measurements may be made using the spectrum analyzer/receiver. To make these measurements, the test engineer reduces the video bandwidth on the measuring device until the modulation of the signal is filtered out. At this point the measuring device is set into the linear mode and the scan time is reduced.