

FCC PART 15, SUBPART B and C
TEST REPORT
for
SiteWERX BASE STATION - WIRED VERSION
MODEL: SBS03

Prepared for

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DATE: JULY 16, 2009

	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 endorsement by NVLAP or any other agency of the U.S. Government.

Device Tested: SiteWERX Base Station - Wired Version.
Model: SBS03
S/N: N/A

Product Description: See Expository Statement.

Modifications: The EUT was not modified in order to meet the specifications.

Manufacturer: WirelessWERX, Inc.
100 South Chaparral Court, Suite 100
Anaheim, CA 92808

Test Dates: July 11, 14, and 16, 2009

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

Test Procedure: ANSI C63.4: 2003

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	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	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	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	20 dB Bandwidth	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (a)(1) and (a)(1)(iii)
7	Peak Power Output	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (b)(1)
8	RF Conducted Antenna Test	Complies with the relevant requirements of FCC Title 47, Part 15, Subpart C, section 15.247 (d)
9	Carrier Frequency Separation	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247 (a)(1)
10	Average Time of Occupancy	Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247 (a)(1)(iii)
11	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 (f)

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the SiteWERX Base Station - Wired Version, Model: SBS03. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 2003. 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, 15.209, and 15.247.

Note: For the unintentional radiator portion of the test, the EUT was within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B.

2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI 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

WirelessWERX, Inc.

Jim Ashley, Jr. Chief Technical Officer

Compatible Electronics Inc.

Alex Benitez Test Technician

Kyle Fujimoto Test Engineer

Michael Christensen Lab Manager, Brea Division

2.4 Date Test Sample was Received

The test sample was received prior to the date of testing.

2.5 Disposition of the Test Sample

The test sample was returned to WiredWERX, Inc. on July 16, 2009.

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 EMI Test Report.

SPEC	TITLE
FCC Title 47, Part 15 Subpart C	FCC Rules - Radio frequency devices (including digital devices) – Intentional Radiators
ANSI C63.4 2003	Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz
FCC Title 47, Part 15 Subpart B	FCC Rules - Radio frequency devices (including digital devices) – Unintentional Radiators

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - EMI

The SiteWERX Base Station – Wired Version, Model: SBS03 (EUT) was connected to an access point and power supply via its ethernet and power port, respectively. The access point was also connected to a laptop and power supply via its ethernet and power ports, respectively. The EUT was continuously transmitting and/or receiving continuously during the test depending on how the EUT was programmed. The EUT's ethernet connection was also being pinged by the laptop (through the access point) on a continuous basis.

Note #1: The RF module that was certified under the FCC ID: R68MTCHDRCT as a modular approval inside the EUT was not tested because it will not be operational with this EUT.

Operation of the EUT during the testing:

For the intentional radiator portion of the test: The EUT used a program that locked one channel at a time so that the low, middle, and high channels could be tested. This allowed the EUT to be in a no hopping mode. The EUT was tested in two orthogonal axis. The carrier was modulated in the same way it would be when the EUT was in its normal frequency hopping mode.

For the unintentional radiator and conducted emission portion of the test: The EUT used a program that allowed the EUT to function as normal (the channels frequency hopping) on a continuous basis.

The final radiated as well as the conducted data was taken in the modes above. Please see Appendix E for the data sheets.

4.1.1 Cable Construction and Termination

- Cable 1** This is a 33-meter unshielded cable connecting the EUT with the access point. The cable has an RJ-45 connector at each end.
- Cable 2** This is a 2-meter unshielded cable connecting the access point with the laptop. The cable has an RJ-45 connector at each end.
- Cable 3** This is a 2-meter unshielded cable connecting the laptop to the AC Adapter. The cable has a 1 pin power connector at the laptop end and is hard wired into the AC Adapter.
- Cable 4** This is a 2-meter unshielded cable connecting the access point to the AC Adapter. The cable has a 1/8 inch power connector at the access point end and is hard wired into the AC Adapter.
- Cable 5** This is a 2-meter unshielded cable connecting the EUT to the AC Adapter. The cable has a 1/8 inch power connector at the EUT end and is hard wired into the AC Adapter.

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

EQUIPMENT	MANUFACTURER	MODEL NUMBER	SERIAL NUMBER	FCC ID
SITEWERX BASE STATION – WIRED VERSION (EUT)	WirelessWERX, Inc.	SBS03	N/A	S8PSBS03
AC ADAPTER FOR EUT	ELJINTEK	GPSU15U-0	N/A	N/A
LAPTOP	DELL	PPO4X	CN-0HN341-48643-86J-3565	E2KWM3945ABG
AC ADAPTER FOR LAPTOP	DELL	FA90PS0-00	CN-OGX808-73245-84T-9828	N/A
ACCESS POINT	LINKSYS	WRT54GL v1.1	CL7C1HC06292	Q87-WT54GV40
AC ADAPTER FOR ACCESS POINT	LINKSYS	AD12V/1A-SW	2103-40031231R	N/A

5.2 EMI Test Equipment

EQUIPMENT TYPE	MANU-FACTURER	MODEL NUMBER	SERIAL NUMBER	CALIBRATION DATE	CALIBRATION DUE DATE
GENERAL TEST EQUIPMENT USED FOR ALL RF EMISSIONS TESTS					
Computer	Hewlett Packard	4530	US91912319	N/A	N/A
Spectrum Analyzer – Main Section	Hewlett Packard	8566B	3638A08768	August 22, 2008	Aug. 22, 2009
Spectrum Analyzer – Display Section	Hewlett Packard	85662A	3701A22262	August 22, 2008	Aug. 22, 2009
Quasi-Peak Adapter	Hewlett Packard	85650A	2811A01363	August 22, 2008	Aug. 22, 2009
EMI Receiver	Rohde & Schwarz	ESIB40	100194	September 17, 2008	Sept. 17, 2010
Monitor	Hewlett Packard	D5258A	TW74500641	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
Biconical Antenna	Com Power	AB-900	15182	February 23, 2009	Feb. 23, 2010
Log Periodic Antenna	Com Power	AL-100	16252	June 15, 2009	June 15, 2010
Preamplifier	Com-Power	PA-103	1582	January 12, 2009	Jan. 12, 2010
Loop Antenna	Com-Power	AL-130	17089	September 29, 2008	Sept. 29, 2009
Horn Antenna	Com-Power	AH-118	071175	June 27, 2008	June 27, 2010
Microwave Preamplifier	Com Power	PA-122	181921	March 12, 2009	March 12, 2010
Horn Antenna	Com-Power	AH826	71957	December 12, 2007	Dec. 12, 2009
Microwave Preamplifier	Com Power	PA-840	711013	March 12, 2009	March 12, 2010
Antenna Mast	Com Power	AM-100	N/A	N/A	N/A
RF RADIATED EMISSIONS TEST EQUIPMENT					
Emissions Program	Compatible Electronics	2.3 (SR19)	N/A	N/A	N/A
LISN	Com Power	LI-215	12076	September 29, 2008	Sept. 29, 2009
LISN	Com Power	LI-215	12090	September 29, 2008	Sept. 29, 2009
Transient Limiter	Com Power	252A910	1	September 26, 2008	Sept. 26, 2009

6. TEST SITE DESCRIPTION

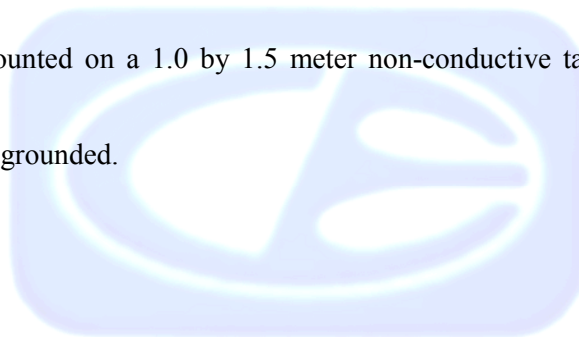
6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

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

The EUT was not grounded.



7. CHARACTERISTICS OF THE TRANSMITTER

7.1 Transmitter Power

Transmit power is herein defined as the power delivered to a 50 ohm load at the RF output of the EUT.

Power	Channel
5.51 dBm	LOW
5.70 dBm	MIDDLE
5.35 dBm	HIGH

7.2 Channel Number and Frequencies

There are a total of 79 channels. The low channel is at 2402.0 MHz and the high channel is at 2480.0 MHz. There is a 1 MHz separation between channels.

Channel 1: 2402 MHz
Channel 2: 2403 MHz
(Etc.)

7.3 Antenna Gain

The antenna has a gain of 2 dBi.

8. TEST PROCEDURES

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

8.1 RF Emissions

8.1.1 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: 2003. 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 conducted emissions software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

Test Results:

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.

8.1.2 Radiated Emissions (Spurious and Harmonics) Test

The spectrum analyzer and EMI Receiver were used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The Com Power Preamplifier Model: PA-102 was used for frequencies from 30 MHz to 1 GHz, the Com Power Microwave Preamplifier Model: PA-122 was used for frequencies above 1 GHz, and the Com Power Microwave Preamplifier Model: PA-840 was used for frequencies above 18 GHz. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps.

The quasi-peak adapter was used only for those readings which are marked accordingly on the data sheets.

The frequencies above 1 GHz were averaged manually by narrowing the video filter down to 10 Hz and putting the sweep time on AUTO on the spectrum analyzer to keep the amplitude reading calibrated.

After the readings above 1 GHz were average manually, the reading was further adjusted by a "duty cycle correction factor", derived from $20 \log (\text{dwell time} / 100 \text{ ms})$. Since the duty cycle was below 10%, the maximum allowed 20 dB was subtracted from the peak reading. The duty cycle correction factor is explained in Appendix E.

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 300 MHz	120 kHz	Biconical Antenna
300 MHz to 1 GHz	120 kHz	Log Periodic Antenna
1 GHz to 25 GHz	1 MHz	Horn Antenna

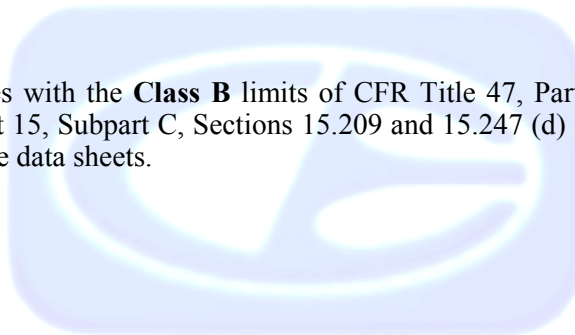
The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 2003. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a 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 (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 10 kHz 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.

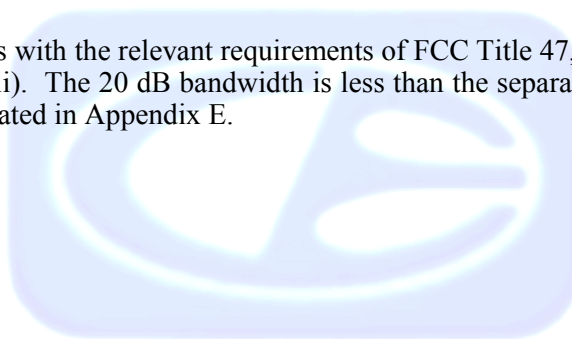


8.2 20 dB Bandwidth

The 20 dB Bandwidth was measured using the EMI Receiver. The bandwidth was measured using a direct connection from the RF output of the EUT. The resolution bandwidth was 30 kHz and the video bandwidth was 100 kHz.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (a)(1) and (a)(1)(iii). The 20 dB bandwidth is less than the separation between channels. Please see the data sheets located in Appendix E.



8.3 Peak Output Power

The Peak Output Power was measured using the EMI Receiver. The peak output power was measured using a direct connection from the RF output of the EUT. The resolution bandwidth was 3 MHz and the video bandwidth was 10 MHz. The cable loss was also added back into the reading using the reference level offset.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (b)(1). The maximum peak output power is less than 1 watt. Please see the data sheets located in Appendix E.

8.4 RF Antenna Conducted Test

The RF antenna conducted test was performed using the EMI Receiver. The RF antenna conducted test measured using a direct connection from the RF out on the EUT into the input of the EMI Receiver. The resolution bandwidth was 100 kHz, and the video bandwidth was 300 kHz. The spans were wide enough to include all the harmonics and emissions that were produced by the intentional radiator.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (d). The RF power that is produced by the intentional radiator is at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power. Please see the radiated emission data sheets located in Appendix E.

8.5 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 8.2 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 band edges at 2400 MHz and 2483.5 MHz meet the requirements of FCC Title 47, Part 15, Subpart C section 15.247 (d). Please see the data sheets located in Appendix E.

8.6 Carrier Frequency Separation

The Channel Hopping Separation Test was measured using the EMI Receiver. The EUT was operating in its normal operating mode. The resolution bandwidth was 1 MHz, and the video bandwidth 1 MHz. The frequency span was wide enough to include the peaks of two adjacent channels.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (a)(1). The Channel Hopping Separation is greater than the 20 dB bandwidth. Please see the data sheets located in Appendix D.

8.7 Number of Hopping Frequencies

The Channel Hopping Separation Test was measured using the EMI Receiver. The EUT was operating in its normal operating mode. The resolution bandwidth was 1 MHz, and the video bandwidth was 1 MHz. The frequency span was wide enough to include all of the peaks in the frequency band of operation.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (a)(1) and 15.247 (a)(1)(iii). The number of hopping frequencies is 79. Please see the data sheets located in Appendix E.

8.8 Average Time of Occupancy Test

The Average Time of Occupancy Test was measured using the EMI Receiver. The EUT was operating in normal operating mode. The frequency span was taken to 0 Hz with a sweep time of 5 msec to determine the time for each transmission.

The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. This means the time of occupancy of any one channel cannot be greater than 0.4 seconds in a 31.6 second period (0.4 seconds * 79 channels).

The sweep time was then changed to 2 seconds and the number of pulses taken. The number of pulses was then multiplied by 15.8 to determine the number of pulses in a 31.6 second period. The number of pulses in a 31.6 second period was then multiplied by the time for each pulse to determine the average time of occupancy.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (a)(1)(iii). The EUT does not transmit for more than 400 msec in a 31.6 second period on any frequency. Please see the data sheets located in Appendix E.

8.9 Spectral Density Test

The spectrum density output was measured using the EMI Receiver. The spectral density output was measured using a direct connection from the RF out on the EUT into the input of the EMI Receiver. The resolution bandwidth 3 kHz, and the video bandwidth was 10 kHz. The highest 1.5 MHz of the signal was used as the frequency span with the sweep rate being 1 second for every 3 kHz of span.

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (f).

9. CONCLUSIONS

The SiteWERX Base Station - Wired Version Model: SBS03 meets all of the specification limits defined in FCC Title 47, Part 15, Subpart C, sections 15.205, 15.209, and 15.247.

Note: For the unintentional radiator portion of the test, the EUT was within the **Class B** specification limits defined by CFR Title 47, Part 15, Subpart B.



APPENDIX A

LABORATORY RECOGNITIONS

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

LABORATORY RECOGNITIONS

Compatible Electronics has the following agency accreditations:

National Voluntary Laboratory Accreditation Program - Lab Code: 200528-0

Voluntary Control Council for Interference - Registration Numbers: R-983, C-1026, R-984 and C-1027

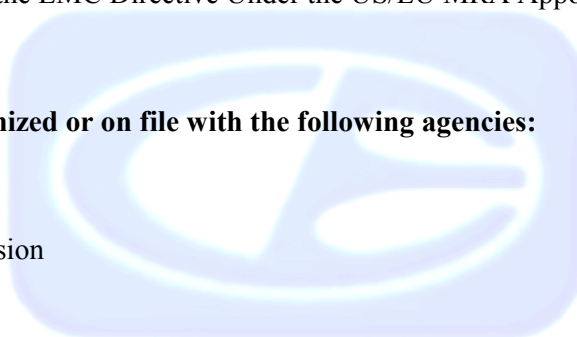
Bureau of Standards and Metrology Inspection - Reference Number: SL2-IN-E-1031

Conformity Assessment Body for the EMC Directive Under the US/EU MRA Appointed by NIST

Compatible Electronics is recognized or on file with the following agencies:

Federal Communications Commission

Industry Canada



APPENDIX B

MODIFICATIONS TO THE EUT

MODIFICATIONS TO THE EUT

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

There were no modifications made to the EUT during the testing.



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

SiteWERX Base Station - Wired Version
Model: SBS03
S/N: N/A

There were no additional models covered under this report.



APPENDIX D

DIAGRAMS, CHARTS, AND PHOTOS

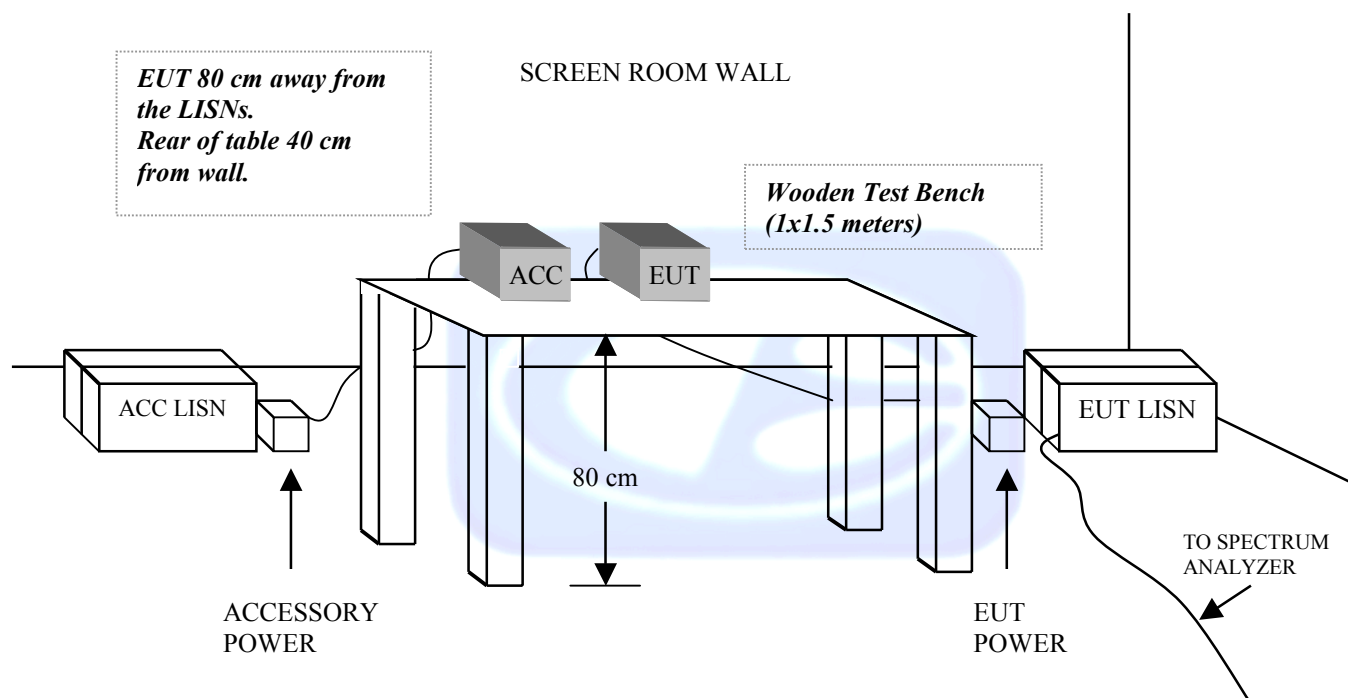
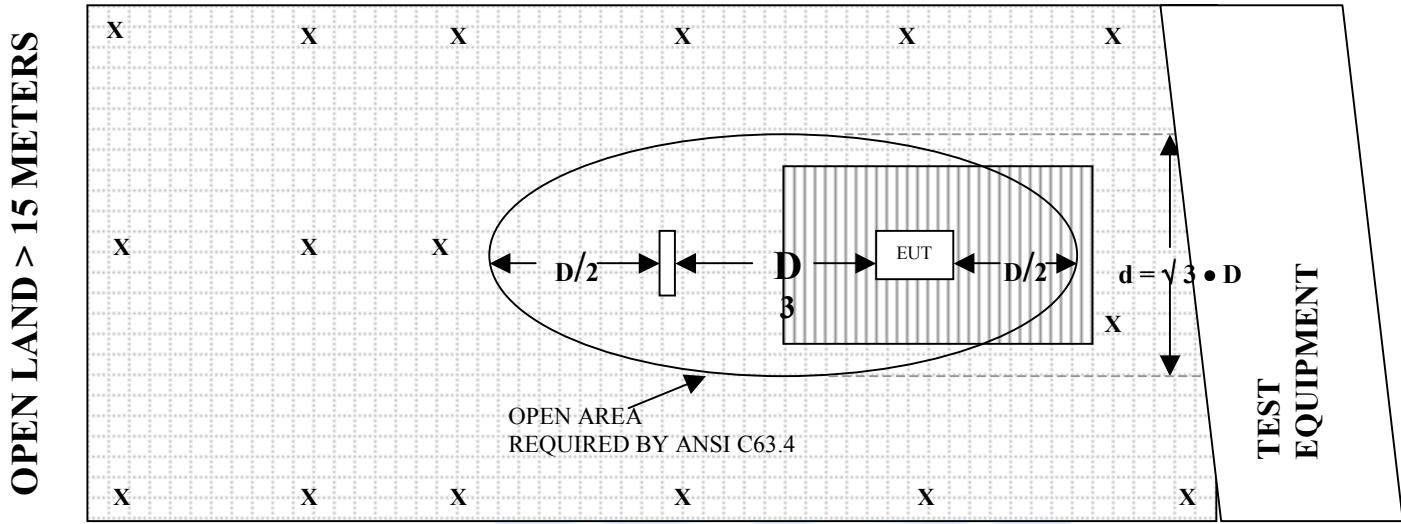
FIGURE 1: CONDUCTED EMISSIONS TEST SETUP

FIGURE 2: PLOT MAP AND LAYOUT OF RADIATED SITE

OPEN LAND > 15 METERS



OPEN LAND > 15 METERS

X	= GROUND RODS		= GROUND SCREEN
D	= TEST DISTANCE (meters)		= WOOD COVER

COM-POWER AB-900

BICONICAL ANTENNA

S/N: 15182

CALIBRATION DATE: FEBRUARY 23, 2009

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	13.1	100	10.6
35	10.1	120	12.7
40	9.5	140	11.7
45	10.9	160	12.6
50	11.3	180	15.7
60	8.4	200	16.8
70	8.1	250	15.0
80	5.7	275	17.5
90	7.3	300	19.2

COM-POWER AL-100

LOG PERIODIC ANTENNA

S/N: 16252

CALIBRATION DATE: JUNE 15, 2009

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
300	12.8	700	20.4
400	15.3	800	21.7
500	17.5	900	22.0
600	19.8	1000	22.7

COM POWER AH-118**HORN ANTENNA**

S/N: 071175

CALIBRATION DATE: JUNE 27, 2008

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	24.5	10.0	39.4
1.5	25.4	10.5	39.7
2.0	28.3	11.0	39.0
2.5	28.9	11.5	40.0
3.0	29.7	12.0	39.7
3.5	30.8	12.5	41.7
4.0	31.4	13.0	42.7
4.5	32.6	13.5	41.2
5.0	33.7	14.0	41.6
5.5	34.4	14.5	43.2
6.0	34.7	15.0	42.3
6.5	35.4	15.5	39.3
7.0	37.0	16.0	41.7
7.5	37.4	16.5	39.6
8.0	37.6	17.0	43.0
8.5	37.6	17.5	47.1
9.0	38.5	18.0	46.2
9.5	38.6		

COM-POWER PA-103**PREAMPLIFIER**

S/N: 1582

CALIBRATION DATE: JANUARY 12, 2009

FREQUENCY (MHz)	FACTOR (dB)	FREQUENCY (MHz)	FACTOR (dB)
30	33.6	300	33.4
40	33.7	350	33.2
50	33.6	400	33.2
60	33.5	450	33.1
70	33.6	500	32.9
80	33.6	550	33.0
90	33.7	600	32.8
100	33.7	650	33.0
125	33.5	700	32.7
150	33.6	750	32.9
175	33.7	800	32.6
200	33.4	850	32.6
225	33.4	900	32.6
250	33.4	950	32.4
275	33.3	1000	32.7

COM-POWER PA-122**PREAMPLIFIER****S/N: 181921****CALIBRATION DATE: MARCH 12, 2009**

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
1.0	36.46	10.0	35.06
1.5	35.36	10.5	34.82
2.0	34.76	11.0	33.12
2.5	34.94	11.5	34.33
3.0	34.59	12.0	34.75
3.5	34.55	12.5	33.94
4.0	34.25	13.0	35.50
4.5	33.89	13.5	34.89
5.0	34.22	14.0	36.56
5.5	34.81	14.5	36.06
6.0	35.74	15.0	36.67
6.5	36.51	15.5	36.84
7.0	36.66	16.0	34.31
7.5	35.72	16.5	35.11
8.0	33.28	17.0	35.35
8.5	33.11	17.5	34.11
9.0	34.71	18.0	33.88
9.5	35.50	18.5	32.20

COM-POWER PA-840**MICROWAVE PREAMPLIFIER**

S/N: 711013

CALIBRATION DATE: MARCH 12, 2009

FREQUENCY (GHz)	FACTOR (dB)	FREQUENCY (GHz)	FACTOR (dB)
18.0	25.72	29.5	27.11
18.5	25.46	30.0	27.19
19.0	25.19	30.5	27.12
19.5	24.58	31.0	26.76
20.0	23.94	31.5	26.52
20.5	23.48	32.0	26.11
21.0	23.22	32.5	26.35
21.5	23.34	33.0	26.15
22.0	23.62	33.5	26.14
22.5	23.74	34.0	25.47
23.0	24.40	34.5	25.39
23.5	24.60	35.0	25.05
24.0	25.15	35.5	25.18
24.5	25.38	36.0	24.63
25.0	26.00	36.5	25.22
25.5	25.92	37.0	26.20
26.0	26.47	37.5	26.46
26.5	27.19	38.0	25.44
27.0	27.60	38.5	24.71
27.5	26.51	39.0	23.50
28.0	26.46	39.5	23.46
28.5	26.36	40.0	22.37
29.0	26.72		

COM-POWER AH826**HORN ANTENNA****S/N: 71957****CALIBRATION DATE: DECEMBER 12, 2007**

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 AL-130**LOOP ANTENNA**

S/N: 17089

CALIBRATION DATE: SEPTEMBER 29, 2008

FREQUENCY (MHz)	MAGNETIC (dB/m)	ELECTRIC (dB/m)
0.009	-41.57	9.93
0.01	-42.06	9.44
0.02	-42.43	9.07
0.05	-42.50	9.00
0.07	-42.10	9.40
0.1	-42.03	9.47
0.2	-44.50	7.00
0.3	-41.93	9.57
0.5	-41.90	9.60
0.7	-41.73	9.77
1	-41.23	10.27
2	-40.90	10.60
3	-41.20	10.30
4	-41.30	10.20
5	-40.70	10.80
10	-41.10	10.40
15	-42.17	9.33
20	-42.00	9.50
25	-42.20	9.30
30	-43.10	8.40



FRONT VIEW

WiredWERX, INC.
SiteWERX BASE STATION – WIRED VERSION
MODEL: SBS03
FCC SUBPART B AND C – RADIATED EMISSIONS

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

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



REAR VIEW

WiredWERX, INC.
SiteWERX BASE STATION – WIRED VERSION
MODEL: SBS03
FCC SUBPART B AND C – RADIATED EMISSIONS

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



FRONT VIEW

WiredWERX, INC.
SiteWERX BASE STATION – WIRED VERSION
MODEL: SBS03
FCC SUBPART B AND C – CONDUCTED EMISSIONS

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

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Lake Forest Division
20621 Pascal Way
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REAR VIEW

WiredWERX, INC.
SiteWERX BASE STATION – WIRED VERSION
MODEL: SBS03
FCC SUBPART B AND C – CONDUCTED EMISSIONS

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FOR MAXIMUM EMISSIONS**

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

APPENDIX E

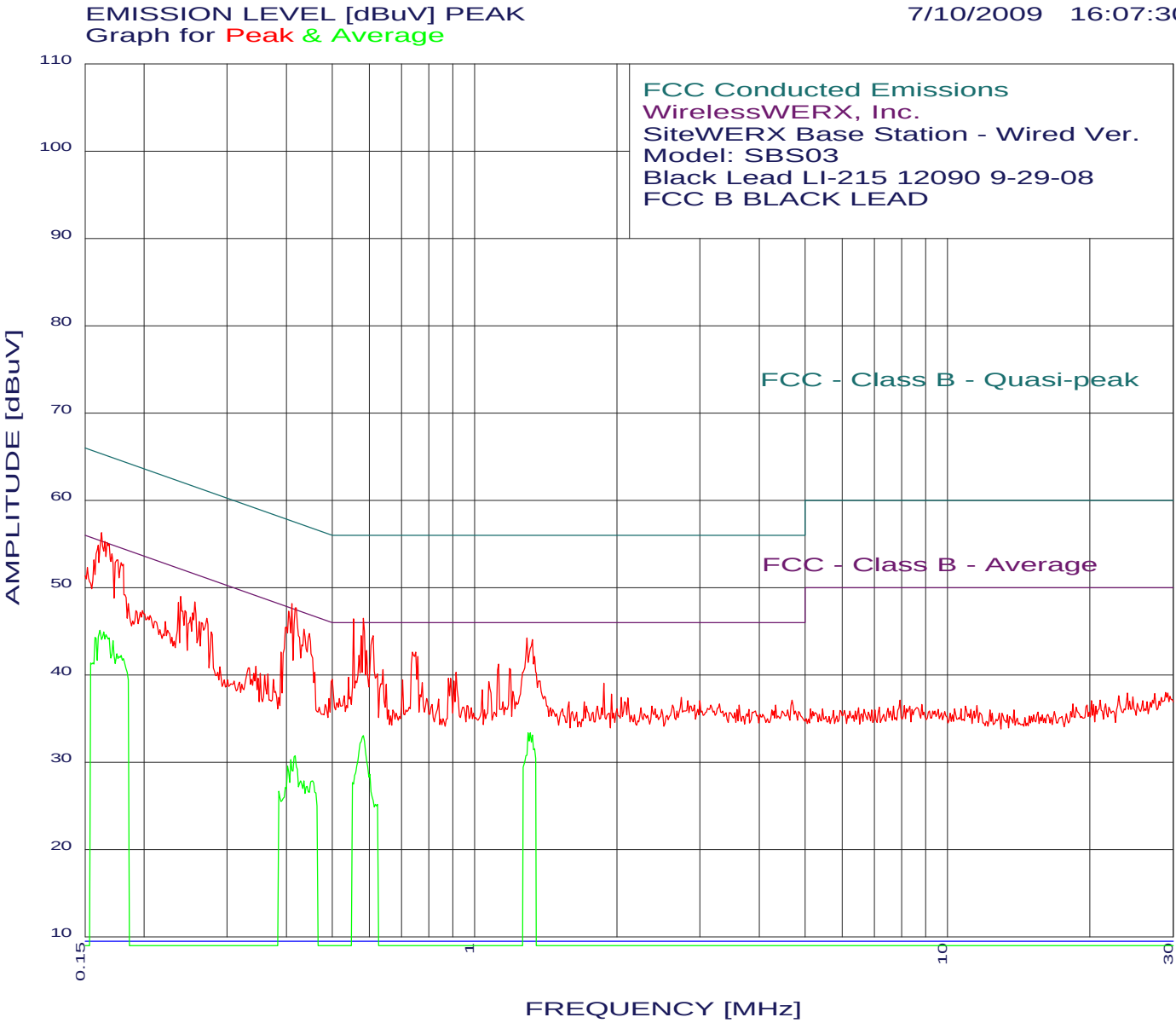
DATA SHEETS

CONDUCTED EMISIONS

DATA SHEETS



7/10/2009 16:07:30



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

WirelessWERX, Inc.
SiteWERX Base Station - Wired Version
Model: SBS03
FCC B BLACK LEAD
TEST ENGINEER : ALEX BENITEZ

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

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.162	56.26	55.34	0.92*
2	0.411	48.19	47.63	0.55*
3	0.583	46.49	46.00	0.49*
4	0.555	46.39	46.00	0.39*
5	0.419	47.69	47.46	0.23*
6	0.165	55.26	55.20	0.06*
7	0.167	55.16	55.11	0.05*
8	0.404	47.29	47.77	-0.48*
9	0.160	54.86	55.47	-0.61*
10	0.611	44.49	46.00	-1.51*
11	0.577	44.49	46.00	-1.51*
12	0.176	53.16	54.68	-1.51*
13	0.179	52.86	54.54	-1.68*
14	1.290	44.20	46.00	-1.80*
15	0.435	45.19	47.15	-1.96*
16	1.325	44.00	46.00	-2.00*
17	0.447	44.69	46.93	-2.24*
18	0.157	53.16	55.64	-2.48*
19	0.239	48.97	52.12	-3.15
20	0.256	48.37	51.55	-3.18
21	0.592	42.79	46.00	-3.21
22	0.751	42.60	46.00	-3.40
23	0.152	52.27	55.91	-3.64
24	0.570	42.19	46.00	-3.81
25	0.759	42.10	46.00	-3.90
26	0.237	48.27	52.21	-3.94
27	0.244	47.37	51.95	-4.58
28	0.272	46.48	51.07	-4.59
29	1.124	41.20	46.00	-4.80

*Please See the Average Readings on the Next Page and on the Plot

WirelessWERX, Inc.
SiteWERX Base Station - Wired Version
Model: SBS03
FCC B BLACK LEAD
TEST ENGINEER : ALEX BENITEZ

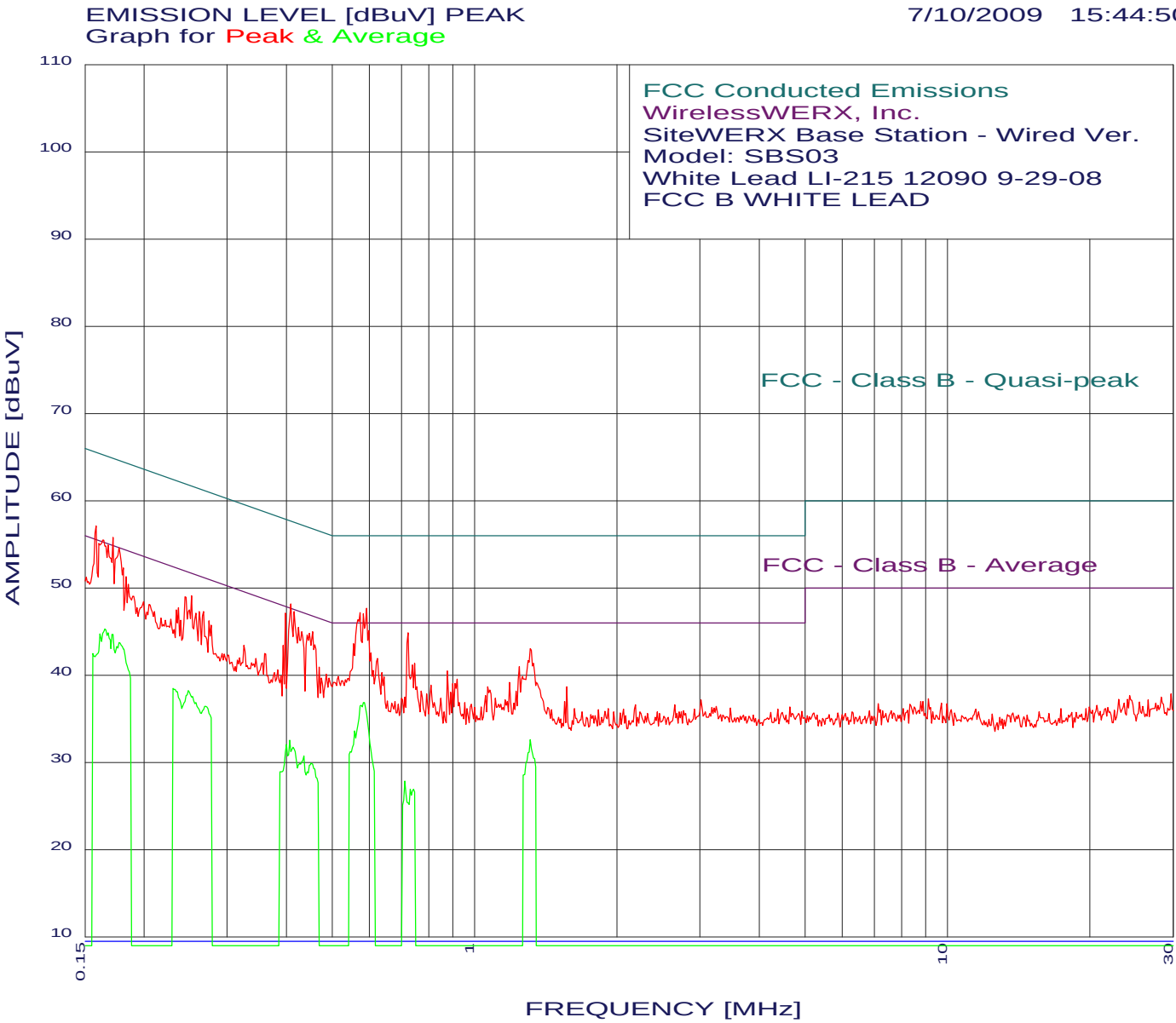
11 highest peaks above -50.00 dB of FCC - Class B - Average limit line

Peak criteria : 1.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.162	45.09	55.38	-10.29
2	0.172	43.91	54.86	-10.94
3	0.157	44.29	55.60	-11.31
4	0.175	42.38	54.72	-12.34
5	1.311	33.33	46.00	-12.67
6	0.583	33.02	46.00	-12.98
7	0.417	30.72	47.50	-16.79
8	0.409	30.28	47.68	-17.40
9	0.402	29.52	47.81	-18.29
10	0.454	27.86	46.80	-18.94
11	0.385	26.63	48.16	-21.53



7/10/2009 15:44:50



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Lake Forest Division
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(949) 587-0400

WirelessWERX, Inc.
SiteWERX Base Station - Wired Version
Model: SBS03
FCC B - WHITE LEAD
TEST ENGINEER : ALEX BENITEZ

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

Peak criteria : 1.00 dB, Curve : Peak

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.592	47.67	46.00	1.67*
2	0.158	57.10	55.56	1.54*
3	0.573	47.17	46.00	1.17*
4	0.583	47.02	46.00	1.02*
5	0.172	55.80	54.86	0.94*
6	0.409	48.18	47.68	0.51*
7	0.164	55.50	55.25	0.25*
8	0.177	54.60	54.63	-0.03*
9	0.168	54.90	55.07	-0.17*
10	0.415	47.28	47.55	-0.26*
11	0.398	47.08	47.90	-0.82*
12	0.598	45.10	46.00	-0.90*
13	0.724	44.85	46.00	-1.15*
14	0.454	44.98	46.80	-1.82*
15	0.424	45.48	47.37	-1.89*
16	0.447	44.78	46.93	-2.15*
17	0.555	43.58	46.00	-2.42*
18	0.252	49.10	51.68	-2.58*
19	1.311	43.06	46.00	-2.94*
20	0.244	49.00	51.95	-2.95*
21	0.183	51.30	54.33	-3.03
22	0.185	50.40	54.24	-3.84
23	0.267	47.30	51.20	-3.90
24	0.624	41.92	46.00	-4.08
25	0.262	47.30	51.38	-4.08
26	0.250	47.50	51.77	-4.27
27	0.258	47.10	51.51	-4.41
28	0.237	47.70	52.21	-4.51
29	0.393	43.38	47.99	-4.61

*Please See the Average Readings on the Next Page and on the Plot

WirelessWERX, Inc.
SiteWERX Base Station - Wired Version
Model: SBS03
FCC B - WHITE LEAD
TEST ENGINEER : ALEX BENITEZ

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

Peak criteria : 1.00 dB, Curve : Average

Peak#	Freq(MHz)	Amp(dBuV)	Limit(dB)	Delta(dB)
1	0.586	36.82	46.00	-9.18
2	0.165	45.26	55.20	-9.95
3	0.171	44.68	54.90	-10.22
4	0.177	43.75	54.63	-10.88
5	1.311	32.58	46.00	-13.42
6	0.248	38.24	51.82	-13.58
7	0.230	38.44	52.43	-13.99
8	0.406	32.50	47.72	-15.22
9	0.400	32.02	47.86	-15.83
10	0.435	30.74	47.15	-16.41
11	0.452	29.90	46.85	-16.95
12	0.713	27.87	46.00	-18.13
13	0.743	26.91	46.00	-19.09

RADIATED EMISSIONS

DATA SHEETS

FCC 15.247

WirelessWERX, Inc.

SiteWERX Base Station - Wired Version

Model: SBS03

Date: 07/14/09

Lab: B

Tested By: Kyle Fujimoto

X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2402	103.87	V	--	--	Peak	1.25	180	
2402	83.87	V	--	--	Avg	1.25	180	
4804	47.47	V	74	-26.53	Peak	1.52	180	
4804	27.47	V	54	-26.53	Avg	1.52	180	
7206	47.62	V	74	-26.38	Peak	1.35	135	
7206	27.62	V	54	-26.38	Avg	1.35	135	
9608		V	--	--	Peak			No Emission
9608		V	--	--	Avg			Detected
12010		V	74	-74	Peak			No Emission
12010		V	54	-54	Avg			Detected
14412		V	74	-74	Peak			No Emission
14412		V	54	-54	Avg			Detected
16814		V	74	-74	Peak			No Emission
16814		V	54	-54	Avg			Detected
19216		V	74	-74	Peak			No Emission
19216		V	54	-54	Avg			Detected
21618		V	74	-74	Peak			No Emission
21618		V	54	-54	Avg			Detected
24020		V	74	-74	Peak			No Emission
24020		V	54	-54	Avg			Detected

FCC 15.247

WirelessWERX, Inc.

SiteWERX Base Station - Wired Version

Model: SBS03

Date: 07/14/09

Lab: B

Tested By: Kyle Fujimoto

X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2402	93.17	H	--	--	Peak	2.25	135	
2402	73.17	H	--	--	Avg	2.25	135	
4804	42.67	H	74	-31.33	Peak	1.25	225	
4804	22.67	H	54	-31.33	Avg	1.25	225	
7206	47.01	H	74	-26.99	Peak	1.25	135	
7206	27.01	H	54	-26.99	Avg	1.25	135	
9608		H	--	--	Peak			No Emission
9608		H	--	--	Avg			Detected
12010		H	74	-74	Peak			No Emission
12010		H	54	-54	Avg			Detected
14412		H	74	-74	Peak			No Emission
14412		H	54	-54	Avg			Detected
16814		H	74	-74	Peak			No Emission
16814		H	54	-54	Avg			Detected
19216		H	74	-74	Peak			No Emission
19216		H	54	-54	Avg			Detected
21618		H	74	-74	Peak			No Emission
21618		H	54	-54	Avg			Detected
24020		H	74	-74	Peak			No Emission
24020		H	54	-54	Avg			Detected

FCC 15.247

WirelessWERX, Inc.

SiteWERX Base Station - Wired Version

Model: SBS03

Date: 07/14/09

Lab: B

Tested By: Kyle Fujimoto

Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2402	104.4	V	--	--	Peak	1.25	45	
2402	84.4	V	--	--	Avg	1.25	45	
4804	46.04	V	74	-27.96	Peak	1.58	175	
4804	26.04	V	54	-27.96	Avg	1.58	175	
7206	47.86	V	74	-26.14	Peak	1.35	150	
7206	27.86	V	54	-26.14	Avg	1.35	150	
9608		V	--	--	Peak			No Emission
9608		V	--	--	Avg			Detected
12010		V	74	-74	Peak			No Emission
12010		V	54	-54	Avg			Detected
14412		V	74	-74	Peak			No Emission
14412		V	54	-54	Avg			Detected
16814		V	74	-74	Peak			No Emission
16814		V	54	-54	Avg			Detected
19216		V	74	-74	Peak			No Emission
19216		V	54	-54	Avg			Detected
21618		V	74	-74	Peak			No Emission
21618		V	54	-54	Avg			Detected
24020		V	74	-74	Peak			No Emission
24020		V	54	-54	Avg			Detected

FCC 15.247

WirelessWERX, Inc.

SiteWERX Base Station - Wired Version

Model: SBS03

Date: 07/14/09

Lab: B

Tested By: Kyle Fujimoto

Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2402	91.8	H	--	--	Peak	1.35	150	
2402	71.8	H	--	--	Avg	1.35	150	
4804	48.71	H	74	-25.29	Peak	1.35	150	
4804	28.71	H	54	-25.29	Avg	1.35	150	
7206	45.44	H	74	-28.56	Peak	1.55	180	
7206	25.44	H	54	-28.56	Avg	1.55	180	
9608		H	--	--	Peak			No Emission
9608		H	--	--	Avg			Detected
12010		H	74	-74	Peak			No Emission
12010		H	54	-54	Avg			Detected
14412		H	74	-74	Peak			No Emission
14412		H	54	-54	Avg			Detected
16814		H	74	-74	Peak			No Emission
16814		H	54	-54	Avg			Detected
19216		H	74	-74	Peak			No Emission
19216		H	54	-54	Avg			Detected
21618		H	74	-74	Peak			No Emission
21618		H	54	-54	Avg			Detected
24020		H	74	-74	Peak			No Emission
24020		H	54	-54	Avg			Detected

FCC 15.247

WirelessWERX, Inc.
 SiteWERX Base Station - Wired Version
 Model: SBS03

Date: 07/14/09
 Lab: B
 Tested By: Kyle Fujimoto

X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2441	101.79	V	--	--	Peak	1.35	150	
2441	81.79	V	--	--	Avg	1.35	150	
4882	47.68	V	74	-26.32	Peak	1.25	135	
4882	27.68	V	54	-26.32	Avg	1.25	135	
7323	46.96	V	74	-27.04	Peak	1.26	135	
7323	26.96	V	54	-27.04	Avg	1.26	135	
9764		V	--	--	Peak			No Emission
9764		V	--	--	Avg			Detected
12205		V	74	-74	Peak			No Emission
12205		V	54	-54				Detected
14646		V	74	-74	Peak			No Emission
14646		V	54	-54	Avg			Detected
17087		V	74	-74	Peak			No Emission
17087		V	54	-54	Avg			Detected
19528		V	74	-74	Peak			No Emission
19528		V	54	-54	Avg			Detected
21969		V	74	-74	Peak			No Emission
21969		V	54	-54	Avg			Detected
24410		V	74	-74	Peak			No Emission
24410		V	54	-54	Avg			

FCC 15.247

WirelessWERX, Inc.

SiteWERX Base Station - Wired Version

Model: SBS03

Date: 07/14/09

Lab: B

Tested By: Kyle Fujimoto

X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2441	91.41	H	--	--	Peak	1.25	135	
2441	71.41	H	--	--	Avg	1.25	135	
4882	45.33	H	74	-28.67	Peak	1.65	135	
4882	25.33	H	54	-28.67	Avg	1.65	135	
7323	45.55	H	74	-28.45	Peak	1.65	175	
7323	25.55	H	54	-28.45	Avg	1.65	175	
9764		H	--	--	Peak			No Emission
9764		H	--	--	Avg			Detected
12205		H	74	-74	Peak			No Emission
12205		H	54	-54	Avg			Detected
14646		H	74	-74	Peak			No Emission
14646		H	54	-54	Avg			Detected
17087		H	74	-74	Peak			No Emission
17087		H	54	-54	Avg			Detected
19528		H	74	-74	Peak			No Emission
19528		H	54	-54	Avg			Detected
21969		H	74	-74	Peak			No Emission
21969		H	54	-54	Avg			Detected
24410		H	74	-74	Peak			No Emission
24410		H	54	-54	Avg			Detected

FCC 15.247

WirelessWERX, Inc.

SiteWERX Base Station - Wired Version

Model: SBS03

Date: 07/14/09

Lab: B

Tested By: Kyle Fujimoto

Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2441	101.83	V	--	--	Peak	1.06	135	
2441	81.83	V	--	--	Avg	1.06	135	
4882	48.41	V	74	-25.59	Peak	1.25	225	
4882	24.41	V	54	-29.59	Avg	1.25	225	
7323	47.66	V	74	-26.34	Peak	1.58	155	
7323	27.66	V	54	-26.34	Avg	1.58	155	
9764		V	--	--	Peak			No Emission
9764		V	--	--	Avg			Detected
12205		V	74	-74	Peak			No Emission
12205		V	54	-54	Avg			Detected
14646		V	74	-74	Peak			No Emission
14646		V	54	-54	Avg			Detected
17087		V	74	-74	Peak			No Emission
17087		V	54	-54	Avg			Detected
19528		V	74	-74	Peak			No Emission
19528		V	54	-54	Avg			Detected
21969		V	74	-74	Peak			No Emission
21969		V	54	-54	Avg			Detected
24410		V	74	-74	Peak			No Emission
24410		V	54	-54	Avg			Detected

FCC 15.247

WirelessWERX, Inc.

SiteWERX Base Station - Wired Version

Model: SBS03

Date: 07/14/09

Lab: B

Tested By: Kyle Fujimoto

Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2441	91.09	H	--	--	Peak	1.58	135	
2441	71.09	H	--	--	Avg	1.58	135	
4882	45.26	H	74	-28.74	Peak	1.35	180	
4882	25.26	H	54	-28.74	Avg	1.35	180	
7323	48.57	H	74	-25.43	Peak	1.26	135	
7323	28.57	H	54	-25.43	Avg	1.26	135	
9764		H	--	--	Peak			No Emission
9764		H	--	--	Avg			Detected
12205		H	74	-74	Peak			No Emission
12205		H	54	-54	Avg			Detected
14646		H	74	-74	Peak			No Emission
14646		H	54	-54	Avg			Detected
17087		H	74	-74	Peak			No Emission
17087		H	54	-54	Avg			Detected
19528		H	74	-74	Peak			No Emission
19528		H	54	-54	Avg			Detected
21969		H	74	-74	Peak			No Emission
21969		H	54	-54	Avg			Detected
24410		H	74	-74	Peak			No Emission
24410		H	54	-54	Avg			Detected

FCC 15.247

WirelessWERX, Inc.

SiteWERX Base Station - Wired Version

Model: SBS03

Date: 07/14/09

Lab: B

Tested By: Kyle Fujimoto

X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2480	102.6	V	--	--	Peak	1.25	135	
2480	82.6	V	--	--	Avg	1.25	135	
4960	47.58	V	74	-26.42	Peak	1.55	215	
4960	27.58	V	54	-26.42	Avg	1.55	215	
7440	45.58	V	74	-28.42	Peak	1.35	225	
7440	25.58	V	54	-28.42	Avg	1.35	225	
9920		V	--	--	Peak			No Emission
9920		V	--	--	Avg			Detected
12400		V	74	-74	Peak			No Emission
12400		V	54	-54				Detected
14880		V	74	-74	Peak			No Emission
14880		V	54	-54	Avg			Detected
17360		V	74	-74	Peak			No Emission
17360		V	54	-54	Avg			Detected
19840		V	74	-74	Peak			No Emission
19840		V	54	-54	Avg			Detected
22320		V	74	-74	Peak			No Emission
22320		V	54	-54	Avg			Detected
24410		V	74	-74	Peak			No Emission
24410		V	54	-54	Avg			

FCC 15.247

WirelessWERX, Inc.

SiteWERX Base Station - Wired Version

Model: SBS03

Date: 07/14/09

Lab: B

Tested By: Kyle Fujimoto

X-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2480	90.64	H	--	--	Peak	1.25	135	
2480	70.64	H	--	--	Avg	1.25	135	
4960	45.39	H	74	-28.61	Peak	1.35	180	
4960	25.39	H	54	-28.61	Avg	1.35	180	
7440	44.97	H	74	-29.03	Peak	1.25	90	
7440	24.97	H	54	-29.03	Avg	1.25	90	
9920		H	--	--	Peak			No Emission
9920		H	--	--	Avg			Detected
12400		H	74	-74	Peak			No Emission
12400		H	54	-54	Avg			Detected
14880		H	74	-74	Peak			No Emission
14880		H	54	-54	Avg			Detected
17360		H	74	-74	Peak			No Emission
17360		H	54	-54	Avg			Detected
19840		H	74	-74	Peak			No Emission
19840		H	54	-54	Avg			Detected
22320		H	74	-74	Peak			No Emission
22320		H	54	-54	Avg			Detected
24410		H	74	-74	Peak			No Emission
24410		H	54	-54	Avg			Detected

FCC 15.247

WirelessWERX, Inc.

SiteWERX Base Station - Wired Version

Model: SBS03

Date: 07/14/09

Lab: B

Tested By: Kyle Fujimoto

Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2480	102.17	V	--	--	Peak	1.05	135	
2480	82.17	V	--	--	Avg	1.05	135	
4960	50.05	V	74	-23.95	Peak	1.25	150	
4960	30.05	V	54	-23.95	Avg	1.25	150	
7440	49.98	V	74	-24.02	Peak	1.52	175	
7440	29.98	V	54	-24.02	Avg	1.52	175	
9920		V	--	--	Peak			No Emission
9920		V	--	--	Avg			Detected
12400		V	74	-74	Peak			No Emission
12400		V	54	-54	Avg			Detected
14880		V	74	-74	Peak			No Emission
14880		V	54	-54	Avg			Detected
17360		V	74	-74	Peak			No Emission
17360		V	54	-54	Avg			Detected
19840		V	74	-74	Peak			No Emission
19840		V	54	-54	Avg			Detected
22320		V	74	-74	Peak			No Emission
22320		V	54	-54	Avg			Detected
24410		V	74	-74	Peak			No Emission
24410		V	54	-54	Avg			Detected

FCC 15.247

WirelessWERX, Inc.

SiteWERX Base Station - Wired Version

Model: SBS03

Date: 07/14/09

Lab: B

Tested By: Kyle Fujimoto

Y-Axis

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2480	89.66	H	--	--	Peak	1.05	135	
2480	69.66	H	--	--	Avg	1.05	135	
4960	47.95	H	74	-26.05	Peak	1.35	150	
4960	27.95	H	54	-26.05	Avg	1.35	150	
7440	47.66	H	74	-26.34	Peak	1.46	135	
7440	27.66	H	54	-26.34	Avg	1.46	135	
9920		H	--	--	Peak			No Emission
9920		H	--	--	Avg			Detected
12400		H	74	-74	Peak			No Emission
12400		H	54	-54	Avg			Detected
14880		H	74	-74	Peak			No Emission
14880		H	54	-54	Avg			Detected
17360		H	74	-74	Peak			No Emission
17360		H	54	-54	Avg			Detected
19840		H	74	-74	Peak			No Emission
19840		H	54	-54	Avg			Detected
22320		H	74	-74	Peak			No Emission
22320		H	54	-54	Avg			Detected
24410		H	74	-74	Peak			No Emission
24410		H	54	-54	Avg			Detected

WirelessWERX, Inc.
SiteWERX Base Station - Wired Version
Model: SBS03

Date: 07/14/09
Lab: B
Tested By: Kyle Fujimoto

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

[illegible]

Test Location : Compatible Electronics
Customer : WirelessWERX, Inc.
Manufacturer : WirelessWERX, Inc.
Eut name : Bluetooth Base Station - Wired
Model : Model: SBS03
Serial # : N/A
Specification : FCC B
Distance correction factor ($20 * \log(\text{test}/\text{spec})$) : 0.00
Test Mode : Radiated Emissions: 10 kHz to 1000 MHz
Vertical and Horizontal Polarization
07/10/2009
Tested By: Alex Benitez

Page : 1/1
Date : 7/10/2009
Time : 8:24:59
Lab : A
Test Distance : 3.0

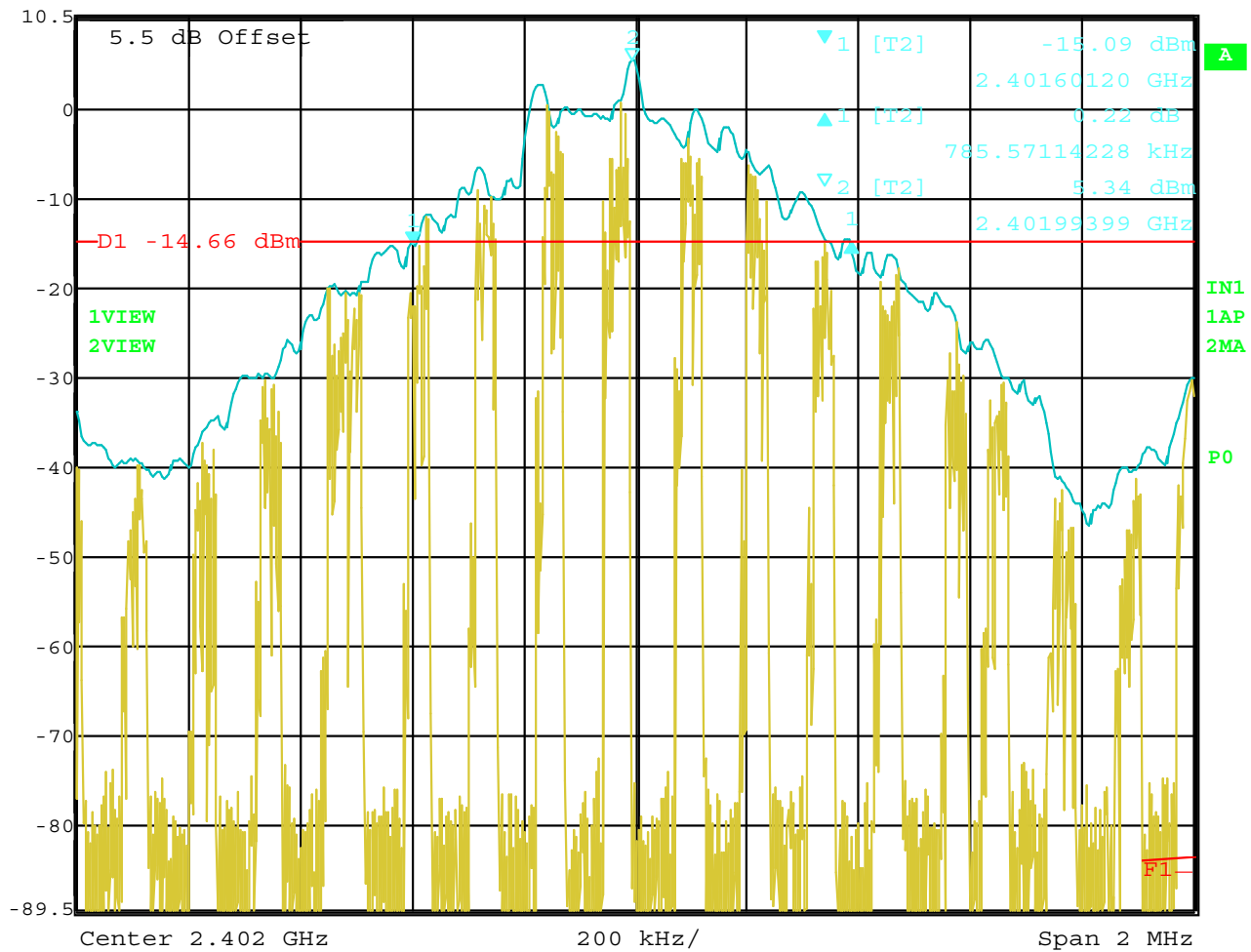
Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
1V	625.067	48.10	7.00	19.96	32.90	42.15	46.00	-3.85
2V	750.135	43.90	7.70	21.07	32.90	39.78	46.00	-6.22
3H	625.069	48.50	7.00	19.96	32.90	42.55	46.00	-3.45
4H	375.062	50.50	4.96	14.74	33.20	37.00	46.00	-9.00
5H	750.082	46.10	7.70	21.07	32.90	41.97	46.00	-4.03
6H	352.054	43.50	4.72	14.19	33.20	29.21	46.00	-16.79
7H	440.118	50.60	5.44	16.24	33.12	39.17	46.00	-6.83
8V	440.056	46.20	5.44	16.24	33.12	34.77	46.00	-11.23
9V	125.061	60.10	2.60	12.43	33.50	41.63	43.50	-1.87
10V	125.061Qp	59.05	2.60	12.43	33.50	40.58	43.50	-2.92
11V	250.066	54.90	3.80	15.01	33.40	40.31	46.00	-5.69
12H	125.054	47.50	2.60	12.43	33.50	29.03	43.50	-14.47
13H	250.088	55.30	3.80	15.01	33.40	40.71	46.00	-5.29
14V	160.076	51.00	2.94	12.61	33.64	32.91	43.50	-10.59
15V	110.657	50.50	2.38	11.77	33.61	31.04	43.50	-12.46
16V	192.090	51.10	3.28	16.38	33.49	37.27	43.50	-6.23
17V	208.065	44.30	3.40	16.48	33.40	30.78	43.50	-12.72
18V	220.065	44.10	3.40	16.03	33.40	30.13	46.00	-15.87
19H	192.093	46.30	3.28	16.38	33.49	32.47	43.50	-11.03
20H	219.977	39.20	3.40	16.03	33.40	25.23	46.00	-20.77
21H	375.060	53.80	4.96	14.74	33.20	40.30	46.00	-5.70
22H	750.084	45.60	7.70	21.07	32.90	41.47	46.00	-4.53
23H	875.119	45.90	8.85	21.93	32.60	44.07	46.00	-1.93
24H	875.120Qp	45.83	8.85	21.93	32.60	44.00	46.00	-2.00
25V	375.056	54.10	4.96	14.74	33.20	40.60	46.00	-5.40
26V	750.081	44.60	7.70	21.07	32.90	40.47	46.00	-5.53
27V	875.075	44.80	8.85	21.93	32.60	42.97	46.00	-3.03
28V	875.072	45.50	8.85	21.93	32.60	43.67	46.00	-2.33
29V	875.073Qp	42.62	8.85	21.93	32.60	40.79	46.00	-5.21
30V	500.080	47.40	6.10	17.50	32.90	38.10	46.00	-7.90
31V	625.069	49.20	7.00	19.96	32.90	43.25	46.00	-2.75
32V	625.070Qp	47.93	7.00	19.96	32.90	41.98	46.00	-4.02
33H	625.069	48.90	7.00	19.96	32.90	42.95	46.00	-3.05
34H	500.071	44.80	6.10	17.50	32.90	35.50	46.00	-10.50

-20 dB BANDWIDTH

DATA SHEETS



Delta 1 [T2] RBW 30 kHz RF Att 20 dB
Ref Lvl 0.22 dB VBW 100 kHz
10.5 dBm 785.57114228 kHz SWT 6 ms Unit dBm

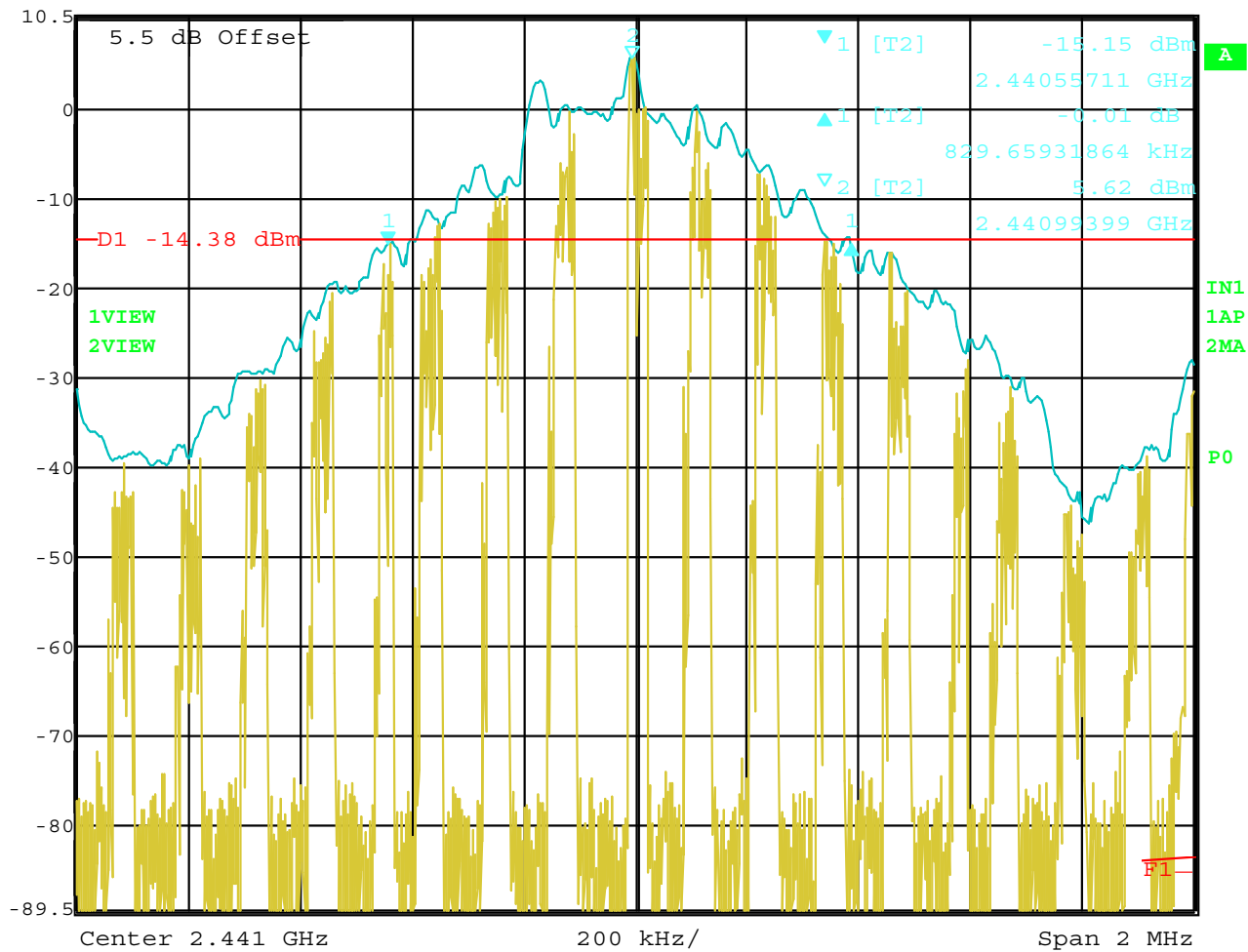


Date: 14.JUL.2009 13:01:31

20 dB Bandwidth of Fundamental – Low Channel



Delta 1 [T2] RBW 30 kHz RF Att 20 dB
Ref Lvl -0.01 dB VBW 100 kHz
10.5 dBm 829.65931864 kHz SWT 6 ms Unit dBm

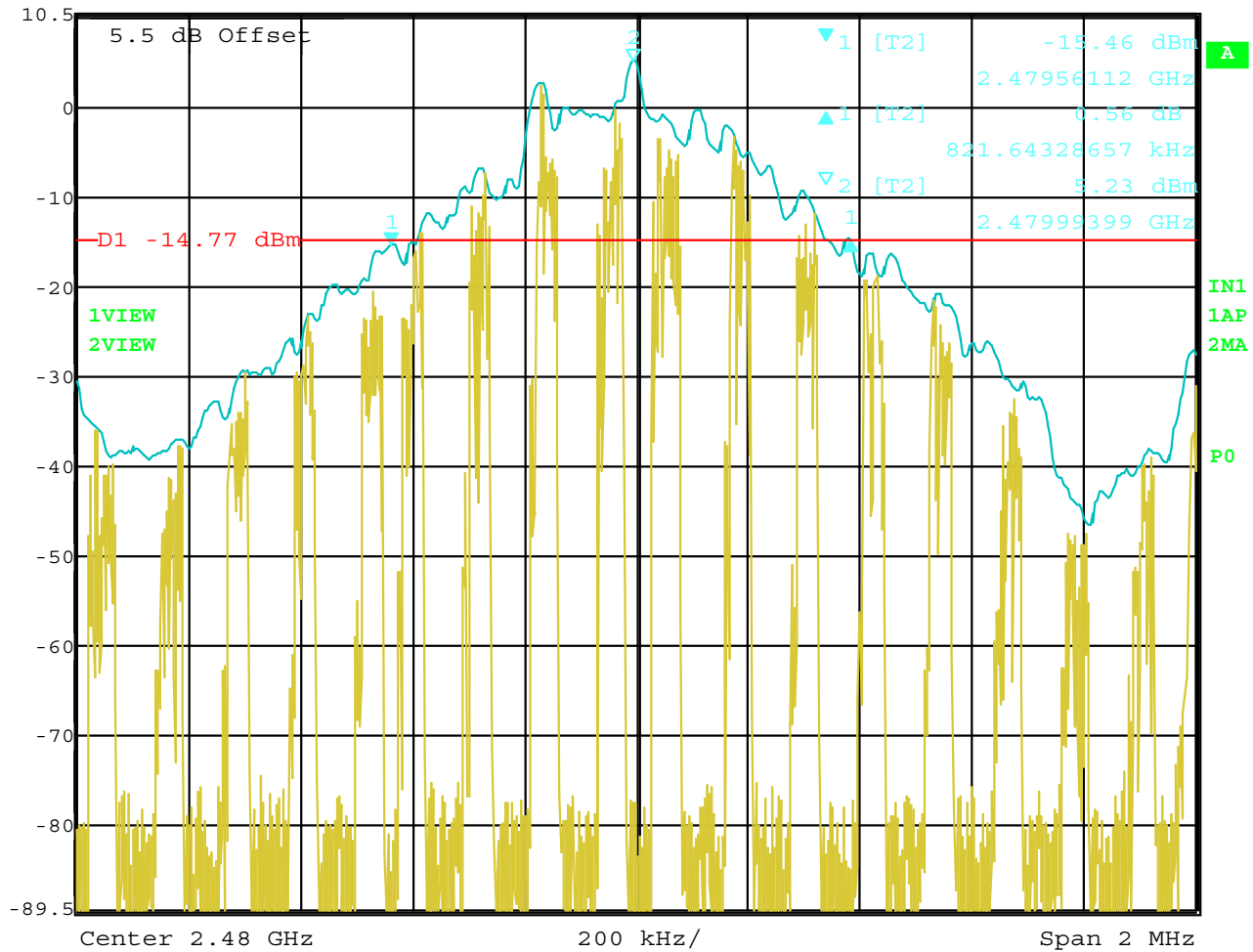


Date: 14.JUL.2009 13:26:34

20 dB Bandwidth of Fundamental - Middle Channel



Delta 1 [T2] RBW 30 kHz RF Att 20 dB
Ref Lvl 0.56 dB VBW 100 kHz
10.5 dBm 821.64328657 kHz SWT 6 ms Unit dBm



Date: 14.JUL.2009 13:50:16

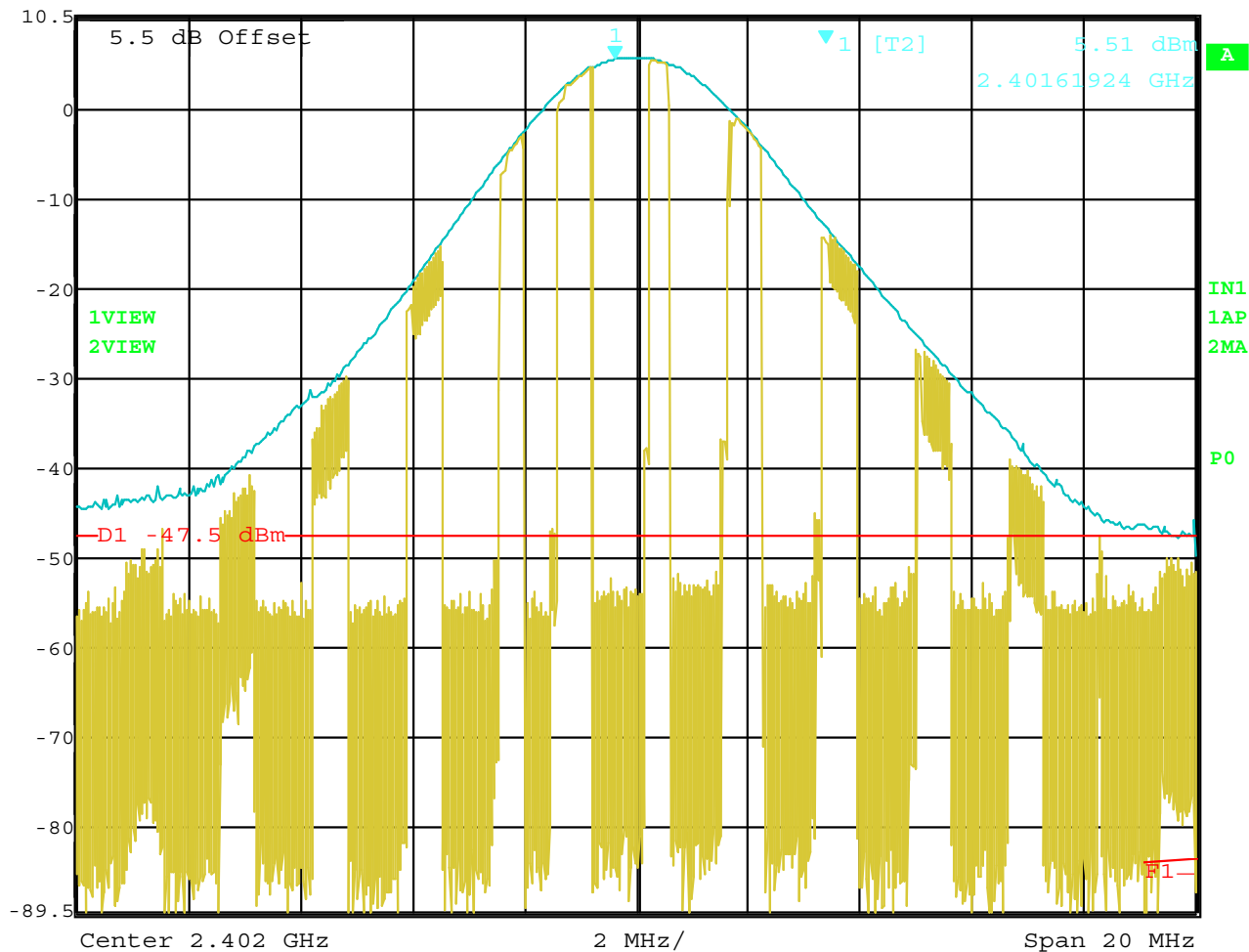
20 dB Bandwidth of Fundamental – High Channel

PEAK POWER OUTPUT

DATA SHEETS



Ref Lvl 10.5 dBm
Marker 1 [T2] 5.51 dBm
2.40161924 GHz
RBW 3 MHz
VBW 10 MHz
SWT 5 ms
RF Att 20 dB
Unit dBm

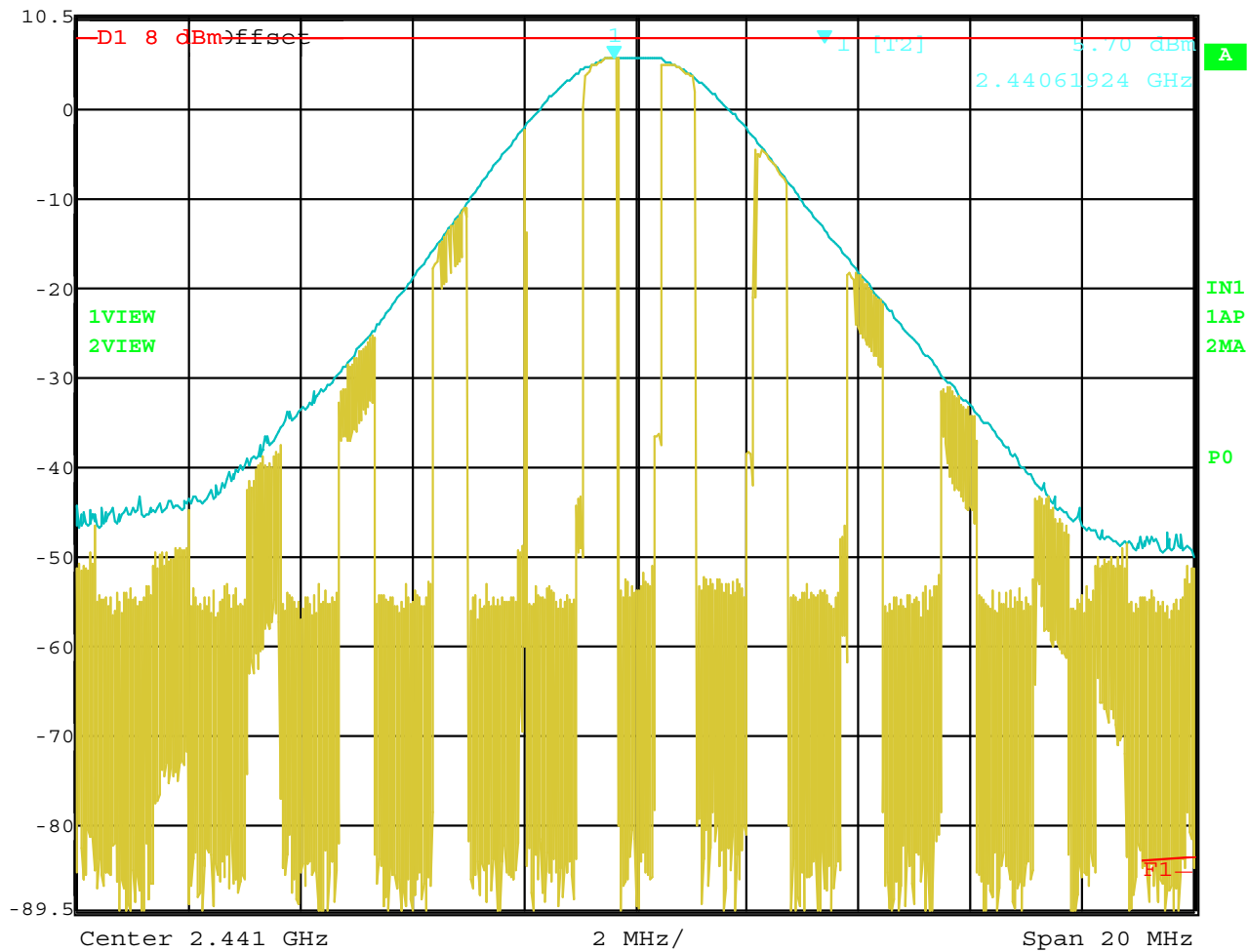


Date: 14.JUL.2009 12:53:00

Peak Power Output - Low Channel



Ref Lvl	Marker 1 [T2]	RBW	3 MHz	RF Att	20 dB
10.5 dBm	5.70 dBm	VBW	10 MHz		
	2.44061924 GHz	SWT	5 ms	Unit	dBm

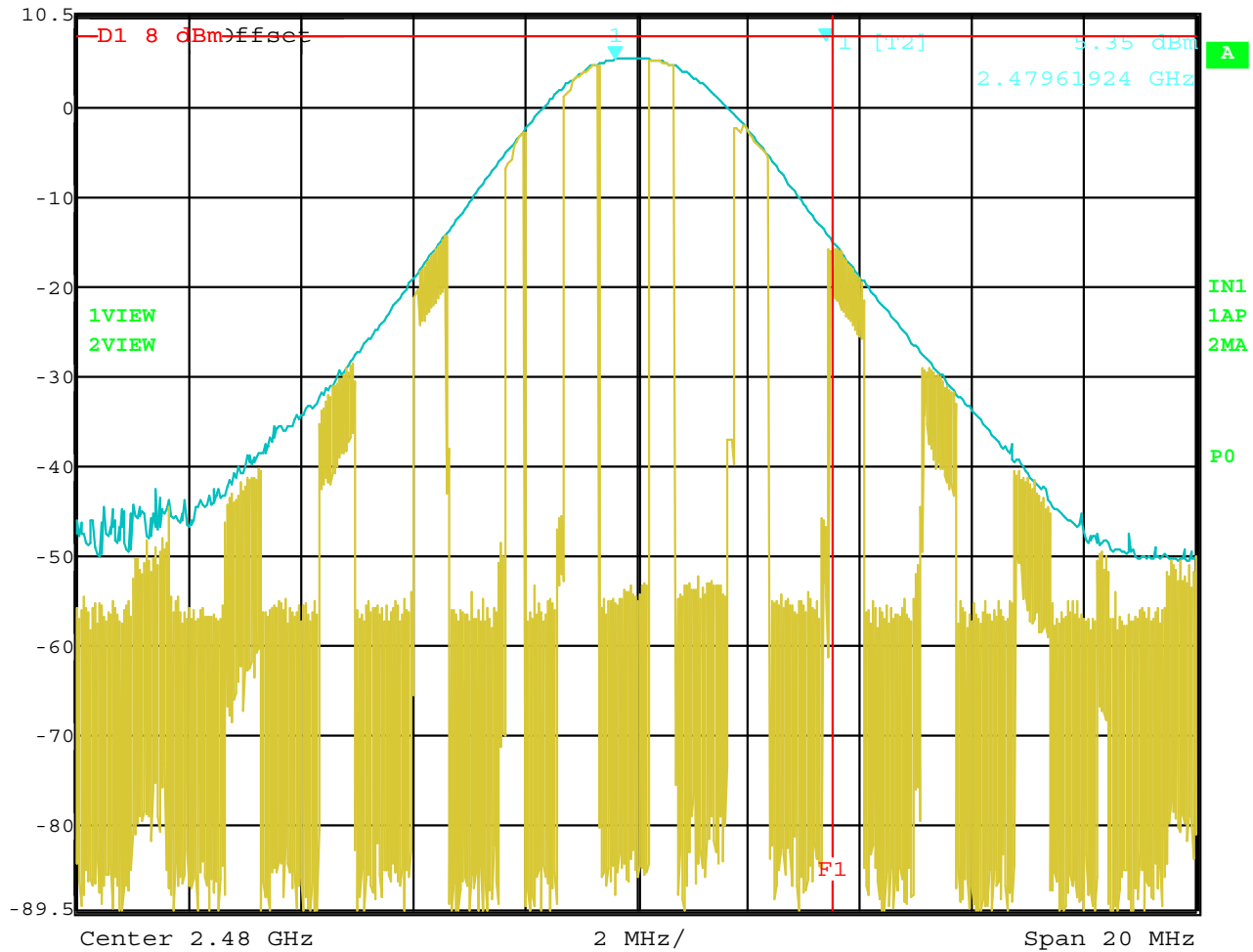


Date: 14.JUL.2009 13:19:40

Peak Power Output -Middle Channel



Marker 1 [T2] RBW 3 MHz RF Att 20 dB
Ref Lvl 5.35 dBm VBW 10 MHz
10.5 dBm 2.47961924 GHz SWT 5 ms Unit dBm



Date: 14.JUL.2009 13:43:33

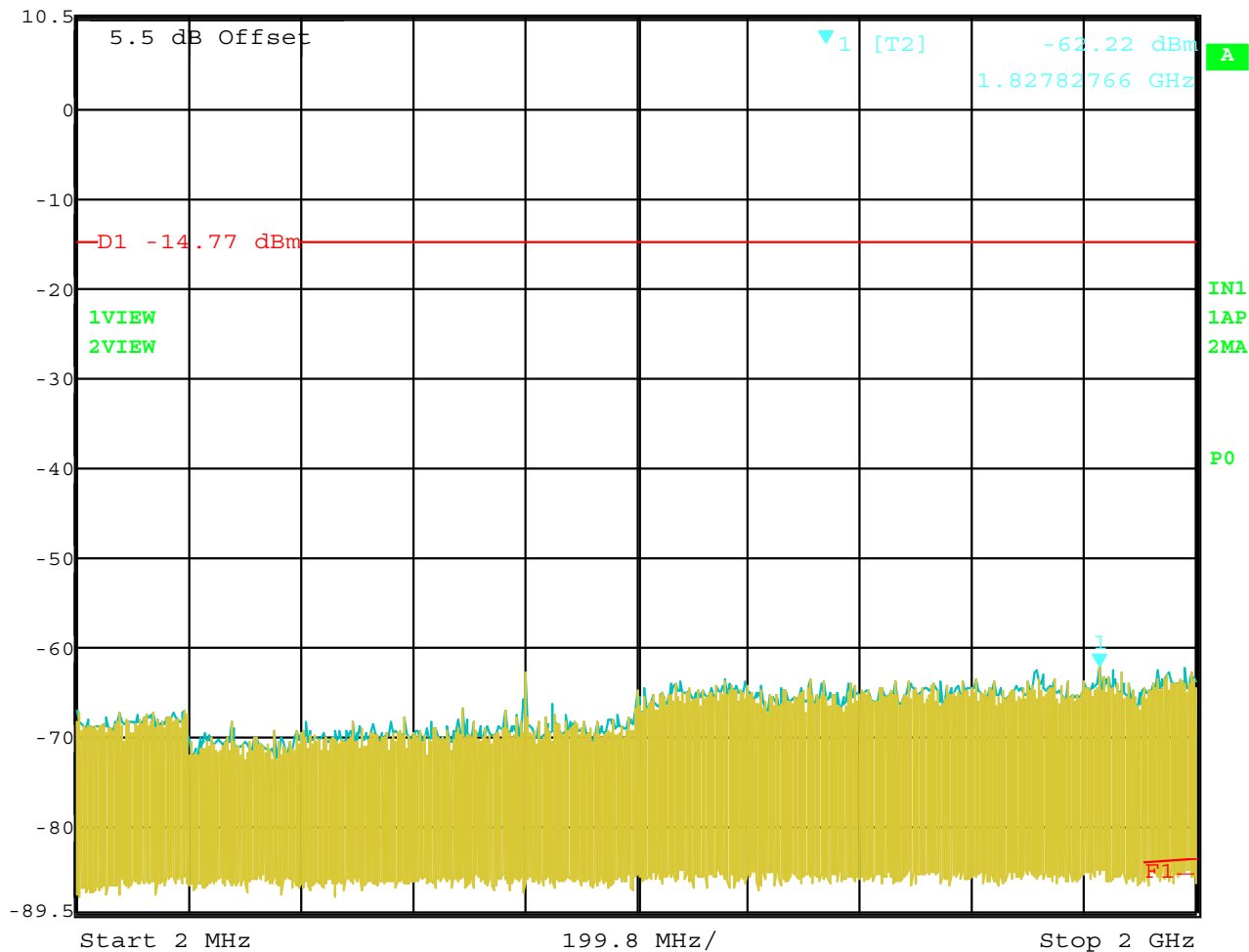
Peak Power Output – High Channel

RF CONDUCTED ANTENNA TEST

DATA SHEETS



Marker 1 [T2] RBW 100 kHz RF Att 20 dB
Ref Lvl -62.22 dBm VBW 300 kHz
10.5 dBm 1.82782766 GHz SWT 1.15 s Unit dBm

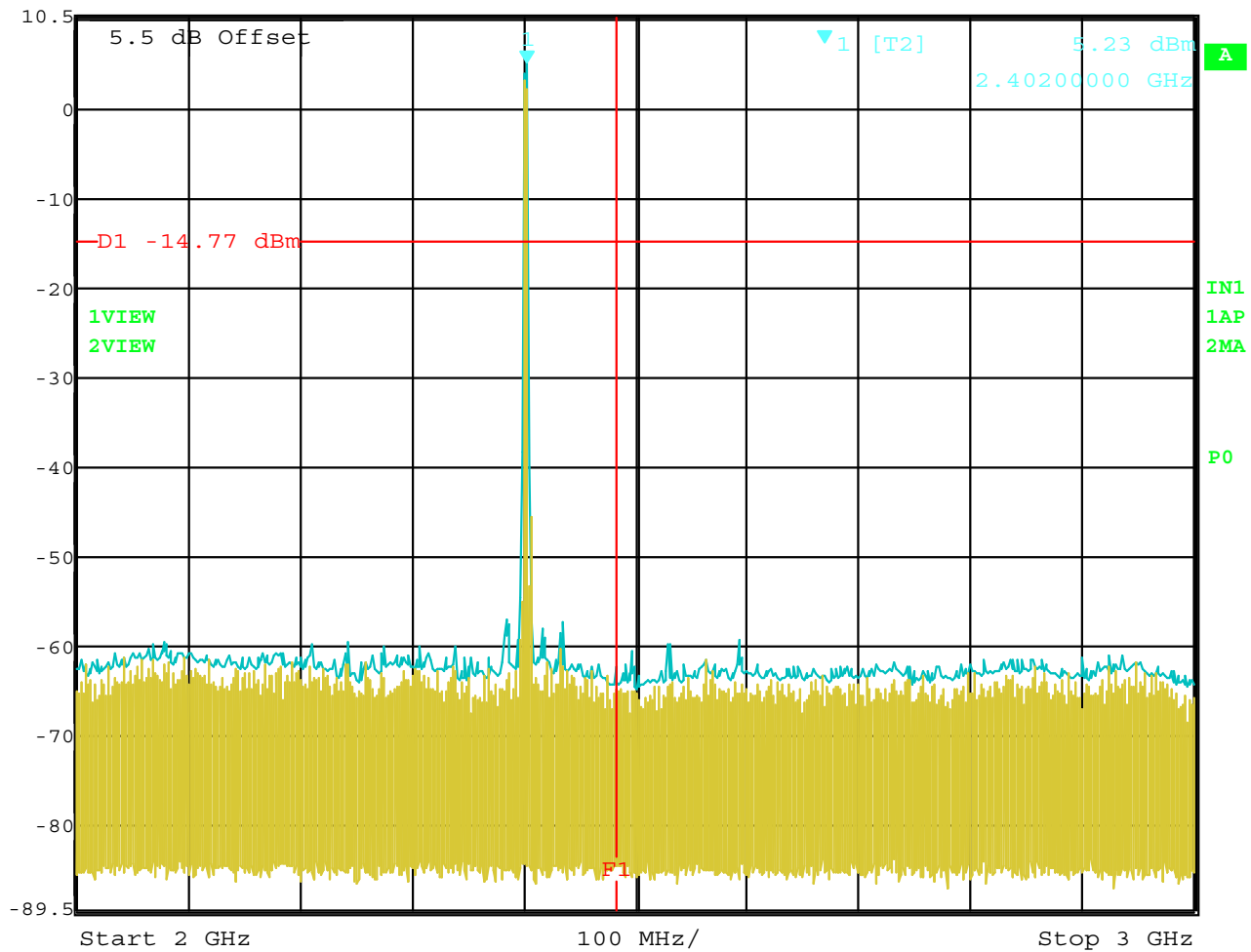


Date: 14.JUL.2009 12:54:48

RF Antenna Conducted Test – Low Channel – 2 MHz to 2 GHz



Marker 1 [T2] RBW 100 kHz RF Att 20 dB
Ref Lvl 5.23 dBm VBW 300 kHz
10.5 dBm 2.40200000 GHz SWT 250 ms Unit dBm

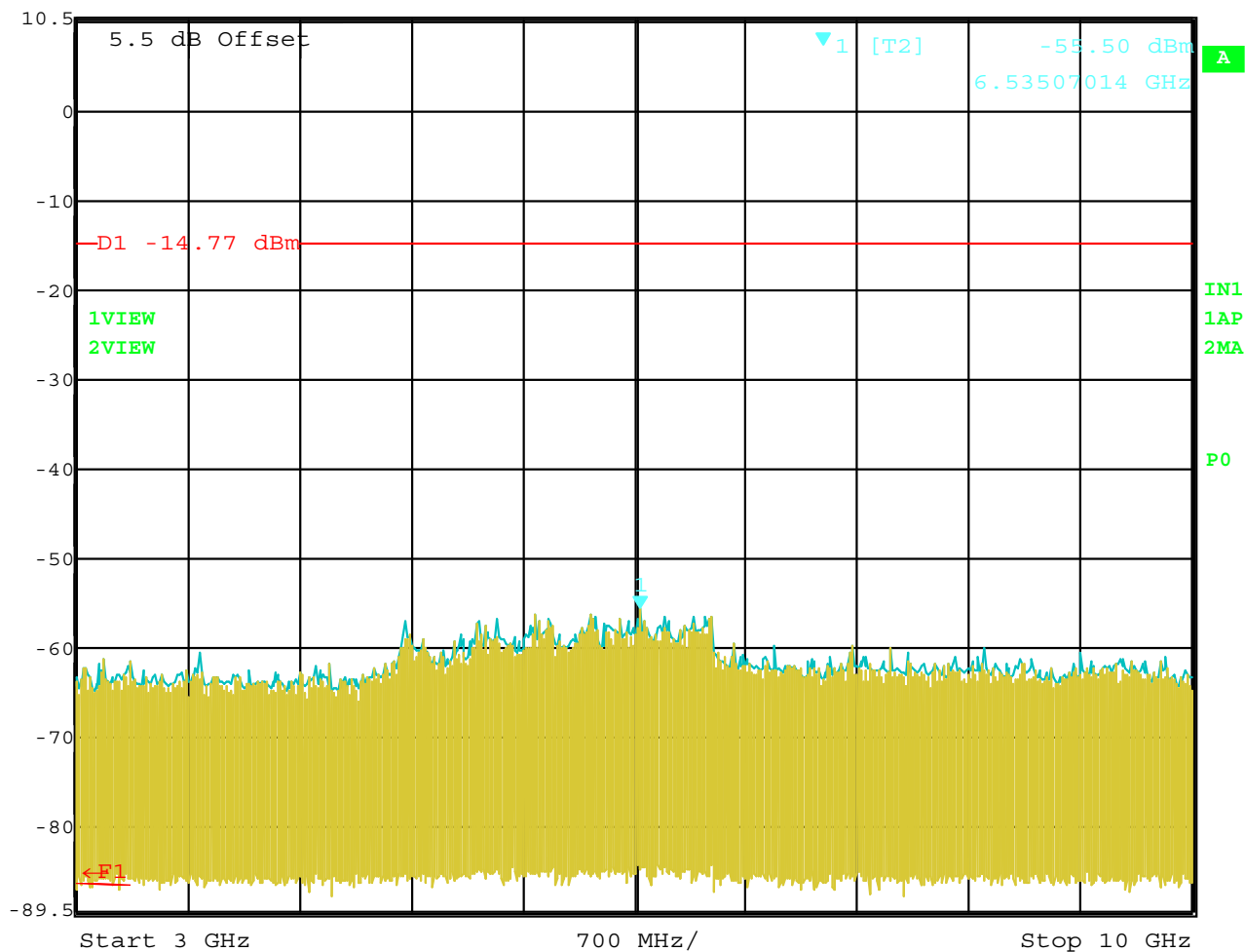


Date: 14.JUL.2009 12:54:23

RF Antenna Conducted Test – Low Channel – 2 GHz to 3 GHz



Marker 1 [T2] RBW 100 kHz RF Att 20 dB
Ref Lvl -55.50 dBm VBW 300 kHz
10.5 dBm 6.53507014 GHz SWT 1.75 s Unit dBm

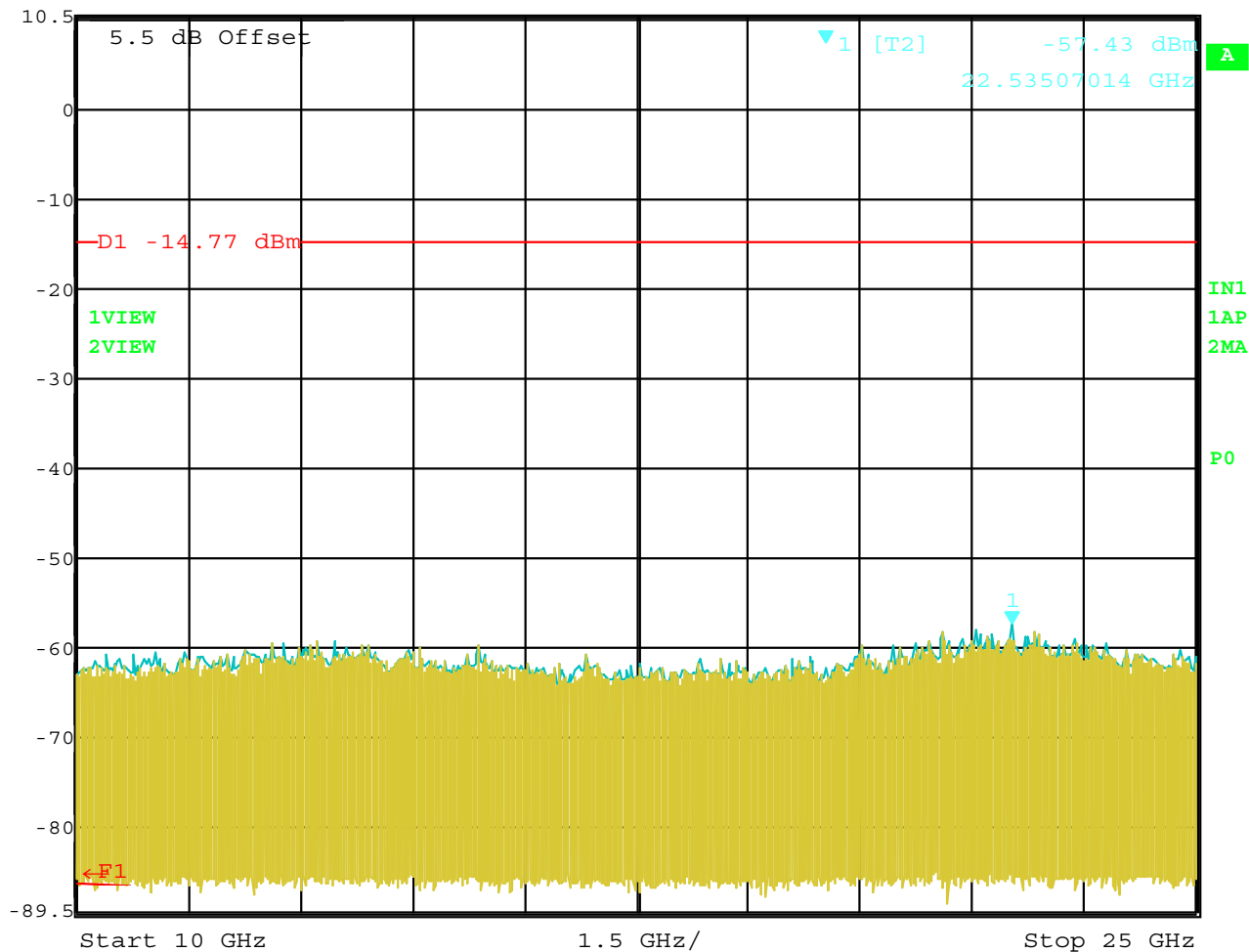


Date: 14.JUL.2009 12:55:18

RF Antenna Conducted Test – Low Channel – 3 GHz to 10 GHz



Ref Lvl 10.5 dBm
Marker 1 [T2] -57.43 dBm
22.53507014 GHz
RBW 100 kHz
RF Att 20 dB
VBW 300 kHz
SWT 3.8 s
Unit dBm

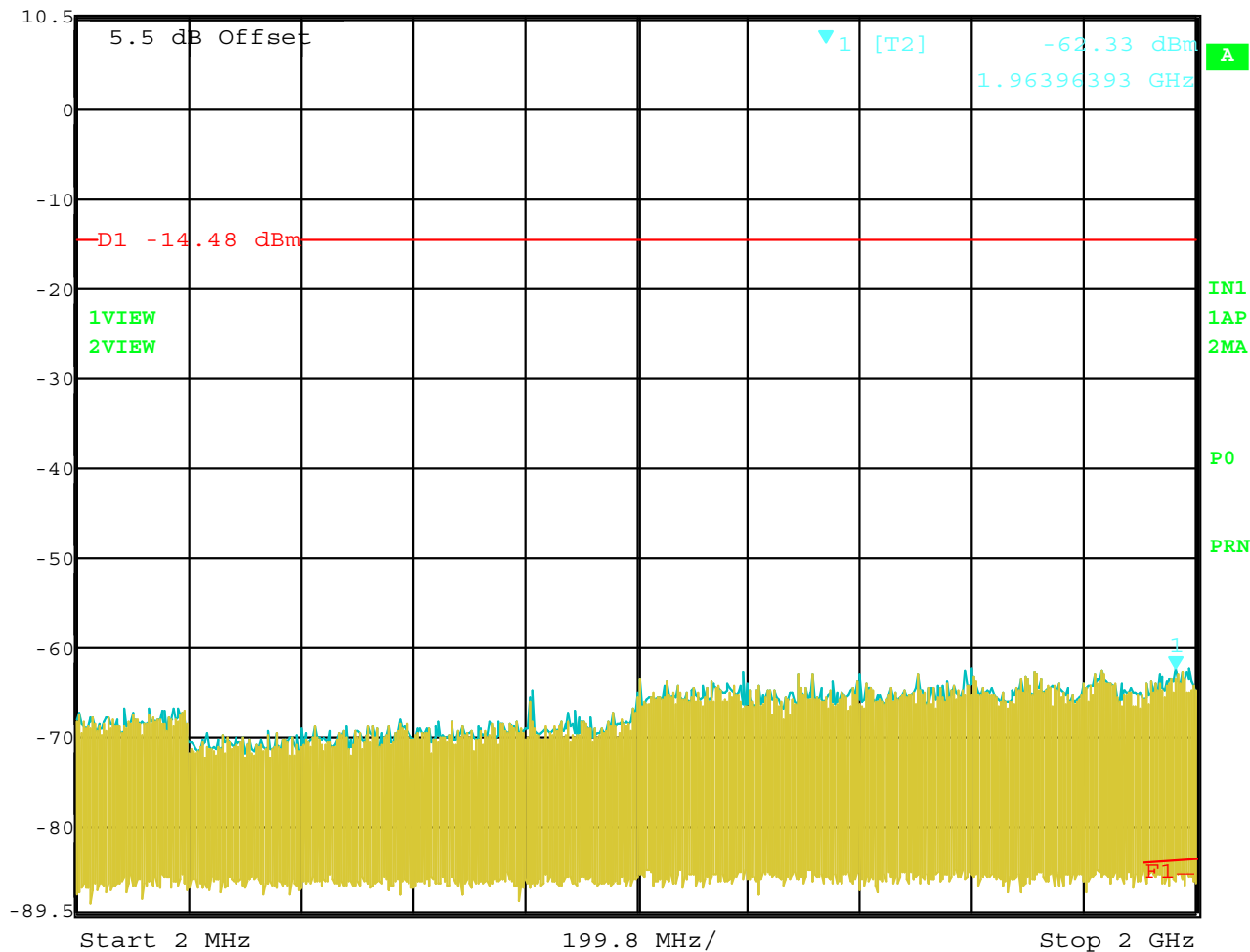


Date: 14.JUL.2009 12:55:47

RF Antenna Conducted Test – Low Channel – 10 GHz to 25 GHz



Marker 1 [T2] RBW 100 kHz RF Att 20 dB
Ref Lvl -62.33 dBm VBW 300 kHz
10.5 dBm 1.96396393 GHz SWT 1.15 s Unit dBm

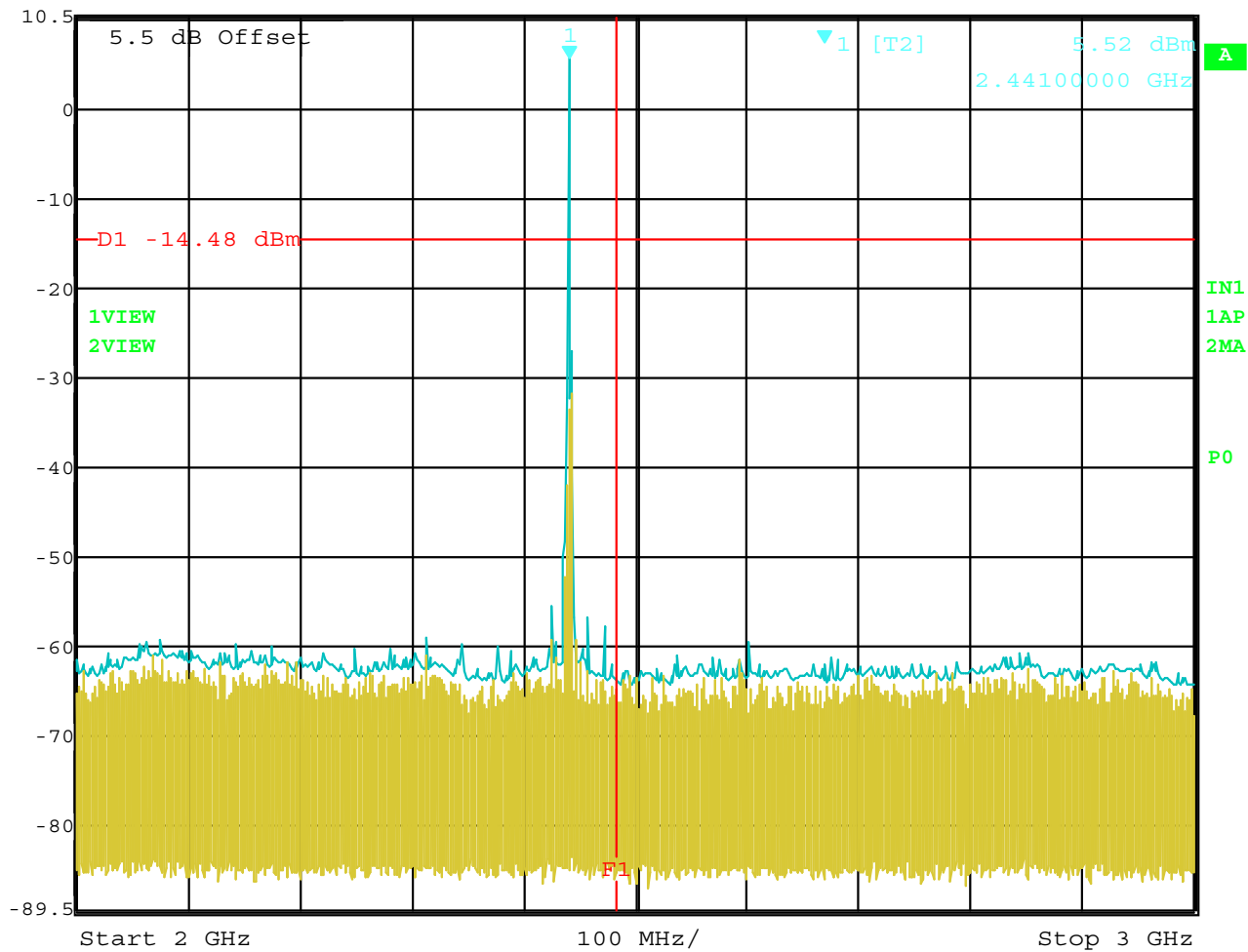


Date: 14.JUL.2009 13:21:24

RF Antenna Conducted Test – Middle Channel – 2 MHz to 2 GHz



Marker 1 [T2] RBW 100 kHz RF Att 20 dB
Ref Lvl 5.52 dBm VBW 300 kHz
10.5 dBm 2.44100000 GHz SWT 250 ms Unit dBm

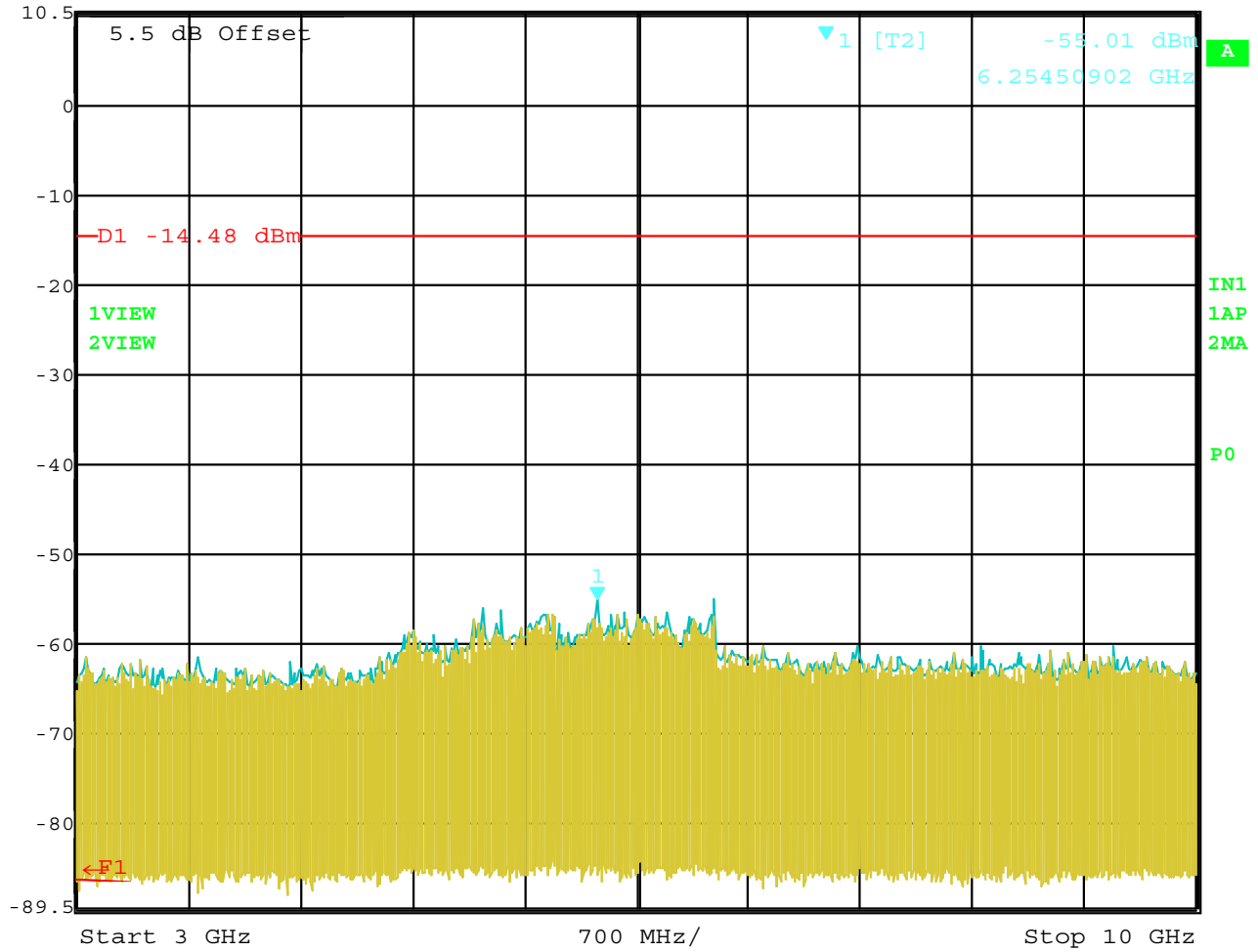


Date: 14.JUL.2009 13:20:48

RF Antenna Conducted Test – Middle Channel – 2 GHz to 3 GHz



Marker 1 [T2] RBW 100 kHz RF Att 20 dB
Ref Lvl -55.01 dBm VBW 300 kHz
10.5 dBm 6.25450902 GHz SWT 1.75 s Unit dBm

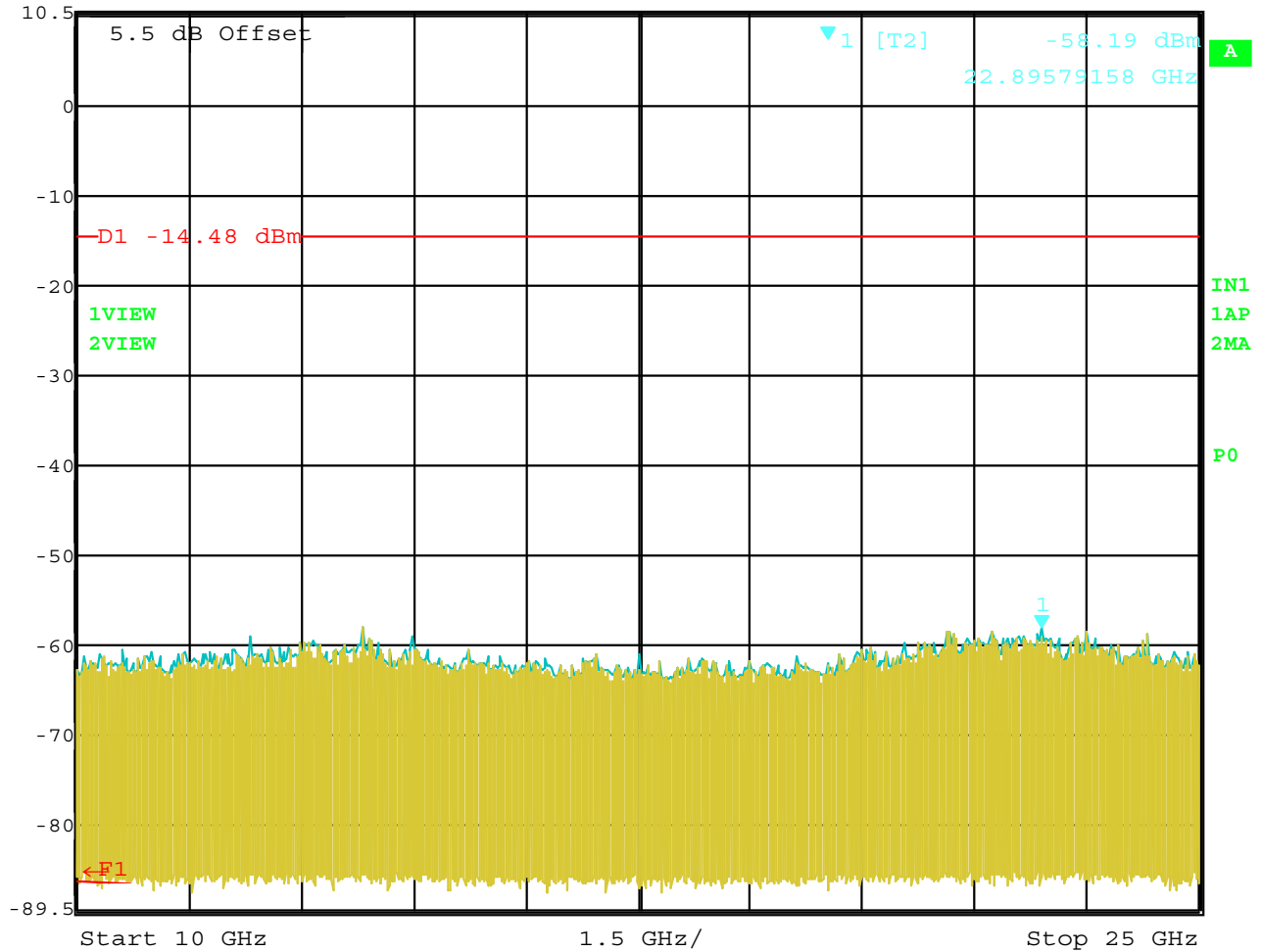


Date: 14.JUL.2009 13:22:01

RF Antenna Conducted Test – Middle Channel – 3 GHz to 10 GHz



Ref Lvl 10.5 dBm Marker 1 [T2] RBW 100 kHz RF Att 20 dB
-58.19 dBm VBW 300 kHz
22.89579158 GHz SWT 3.8 s Unit dBm

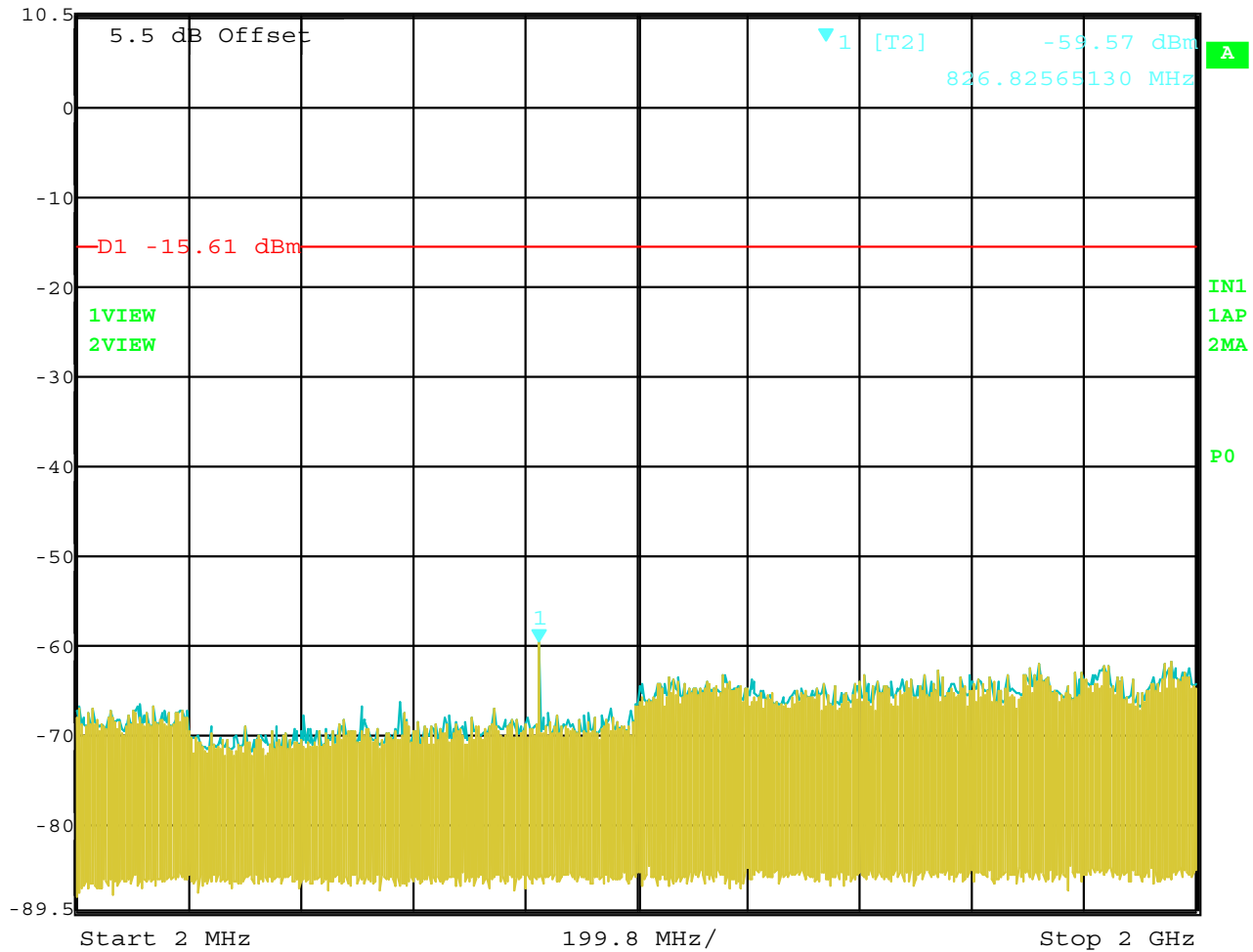


Date: 14.JUL.2009 13:22:28

RF Antenna Conducted Test – Middle Channel – 10 GHz to 25 GHz



Marker 1 [T2] RBW 100 kHz RF Att 20 dB
Ref Lvl -59.57 dBm VBW 300 kHz
10.5 dBm 826.82565130 MHz SWT 1.15 s Unit dBm

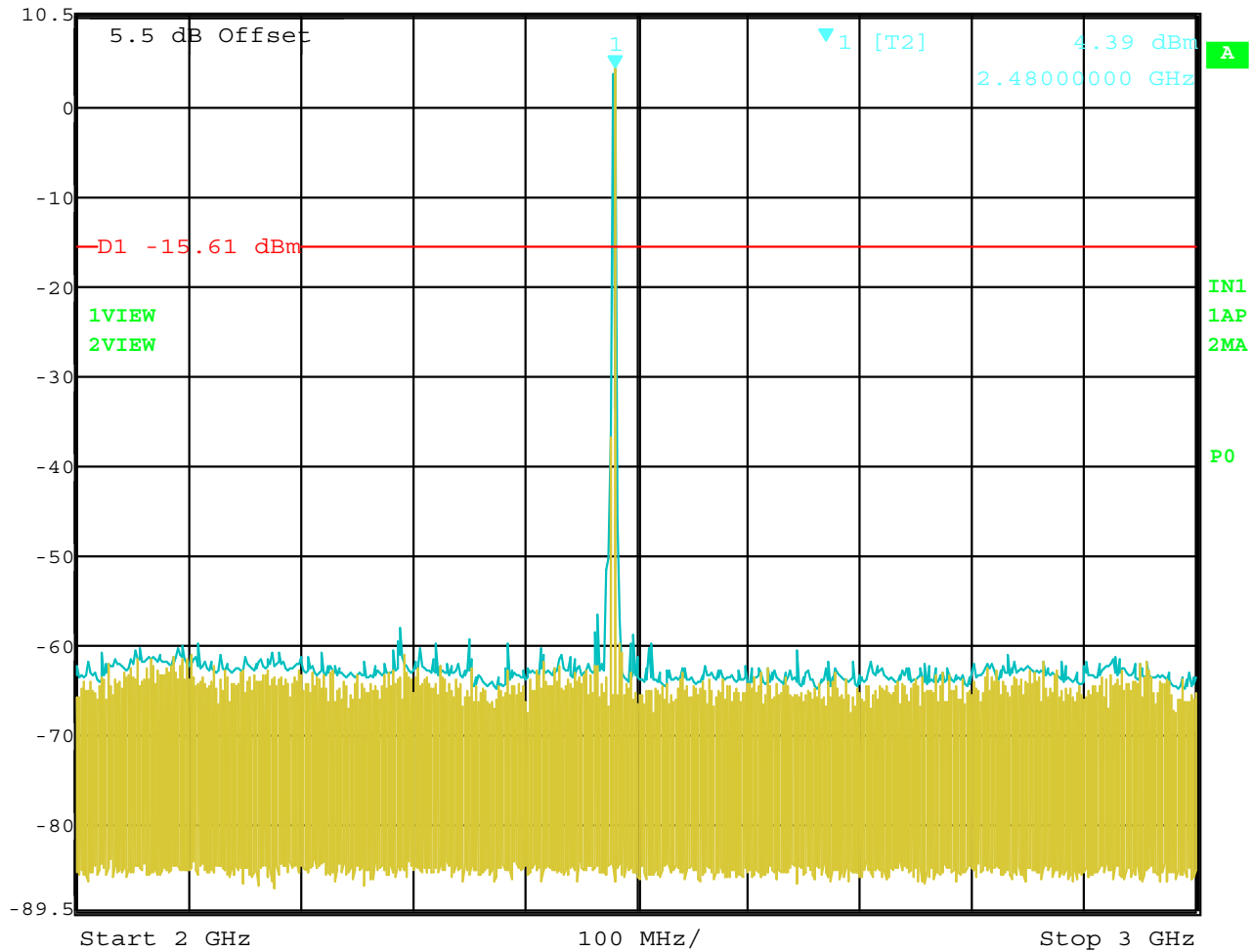


Date: 14.JUL.2009 13:44:44

RF Antenna Conducted Test – High Channel – 2 MHz to 2 GHz



Marker 1 [T2] RBW 100 kHz RF Att 20 dB
Ref Lvl 4.39 dBm VBW 300 kHz
10.5 dBm 2.48000000 GHz SWT 250 ms Unit dBm

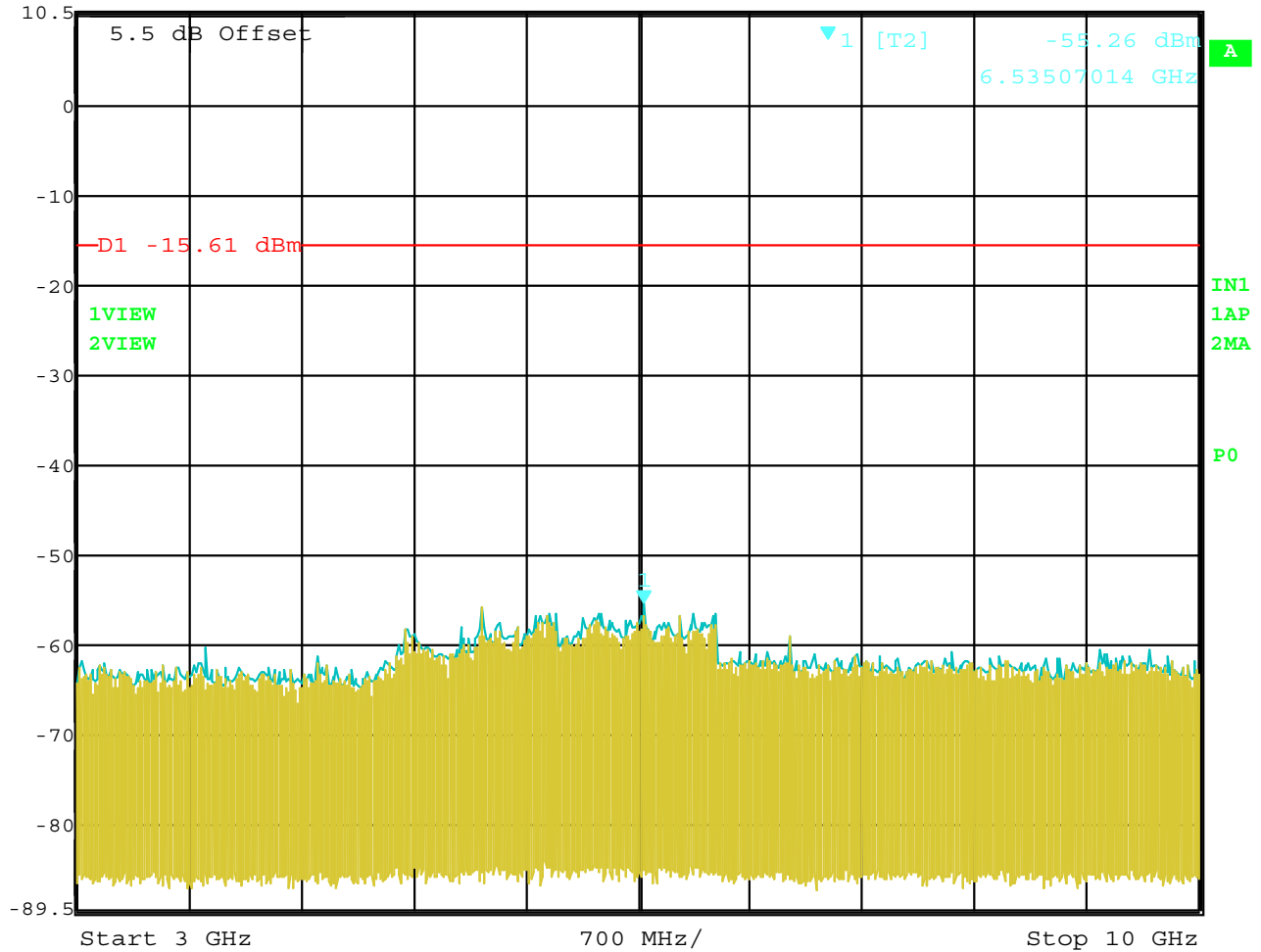


Date: 14.JUL.2009 13:44:20

RF Antenna Conducted Test – High Channel – 2 GHz to 3 GHz



Marker 1 [T2] RBW 100 kHz RF Att 20 dB
Ref Lvl -55.26 dBm VBW 300 kHz
10.5 dBm 6.53507014 GHz SWT 1.75 s Unit dBm

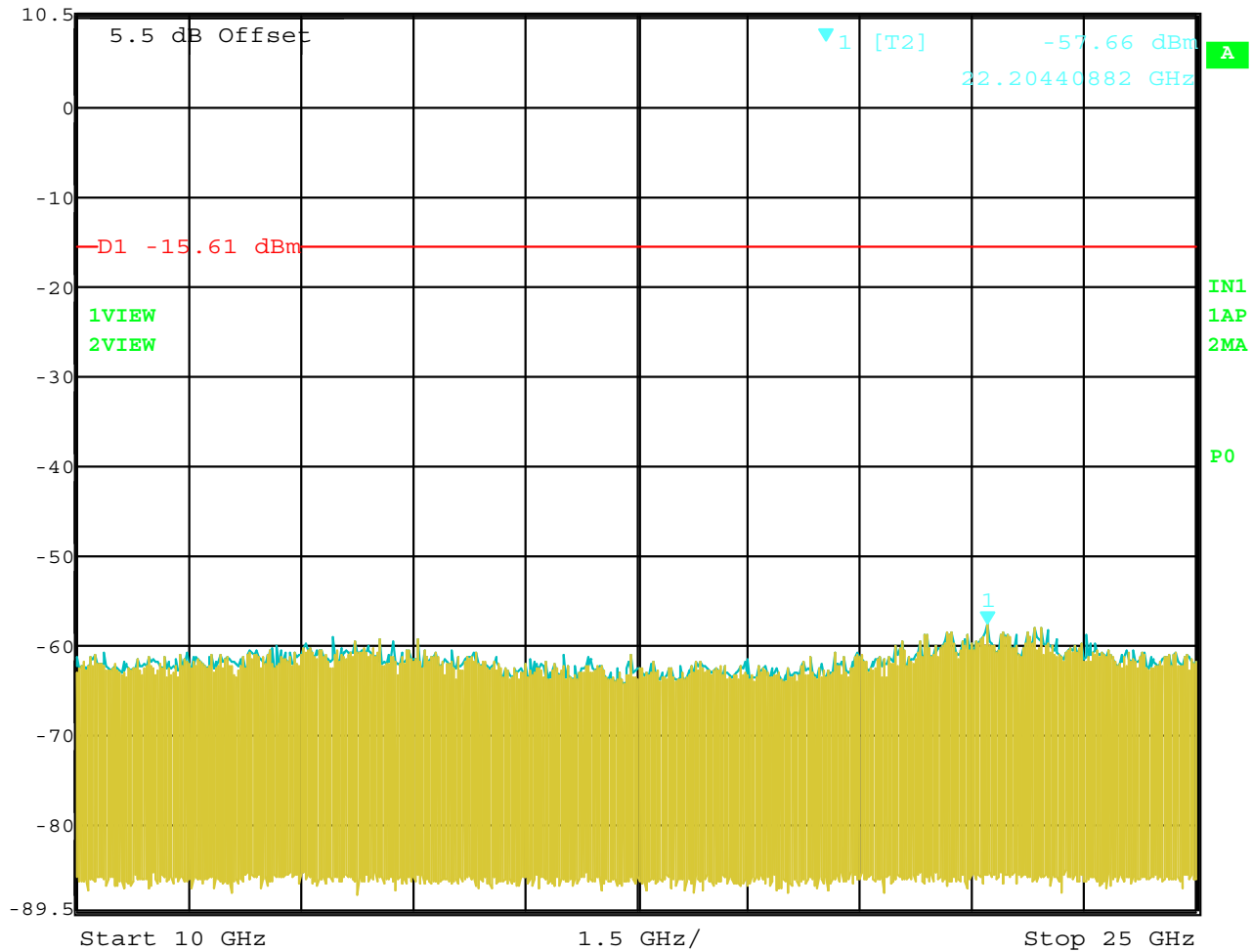


Date: 14.JUL.2009 13:45:13

RF Antenna Conducted Test – High Channel – 3 GHz to 10 GHz



Ref Lvl 10.5 dBm Marker 1 [T2] RBW 100 kHz RF Att 20 dB
-57.66 dBm VBW 300 kHz
22.20440882 GHz SWT 3.8 s Unit dBm



Date: 14.JUL.2009 13:45:40

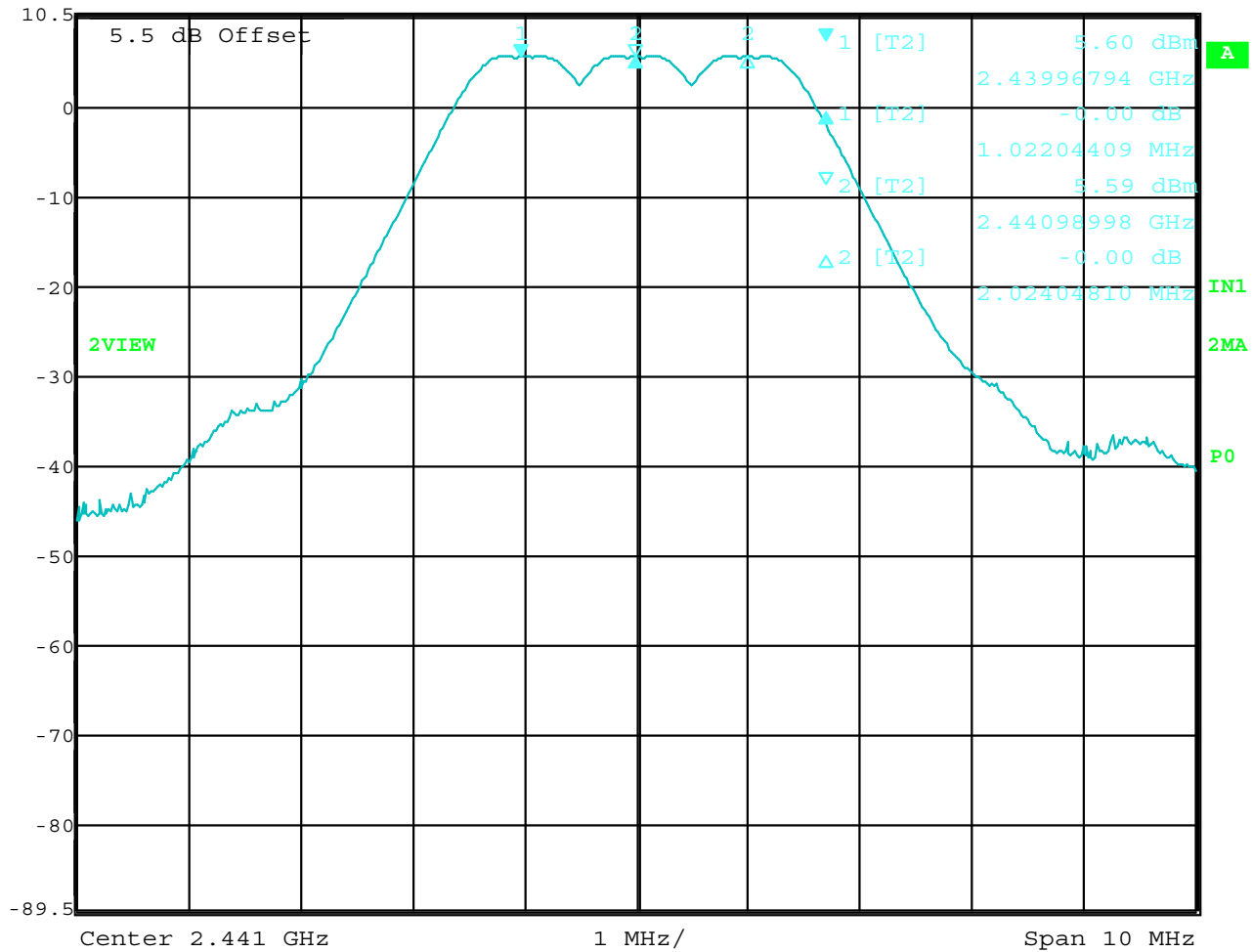
RF Antenna Conducted Test – High Channel – 10 GHz to 25 GHz

CHANNEL HOPPING SEPARATION

DATA SHEET



Delta 1 [T2] RBW 1 MHz RF Att 20 dB
Ref Lvl -0.00 dB VBW 1 MHz
10.5 dBm 1.02204409 MHz SWT 5 ms Unit dBm



Date: 14.JUL.2009 14:08:09

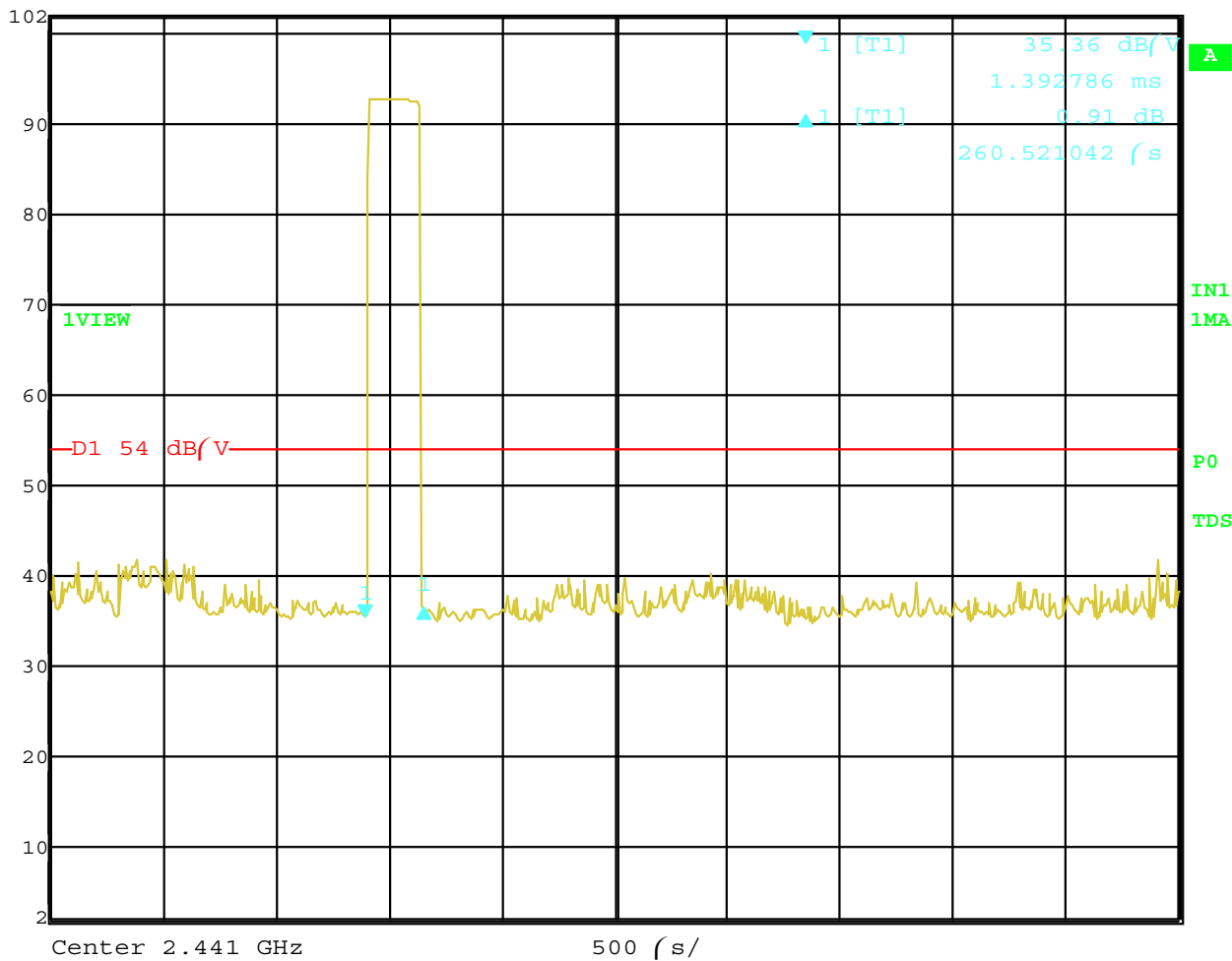
Channel Frequency Separation Test

AVERAGE TIME OF OCCUPANCY

DATA SHEETS



Ref Lvl 102 dB/V Delta 1 [T1] 0.91 dB RBW 1 MHz RF Att 10 dB
Unit dB/V

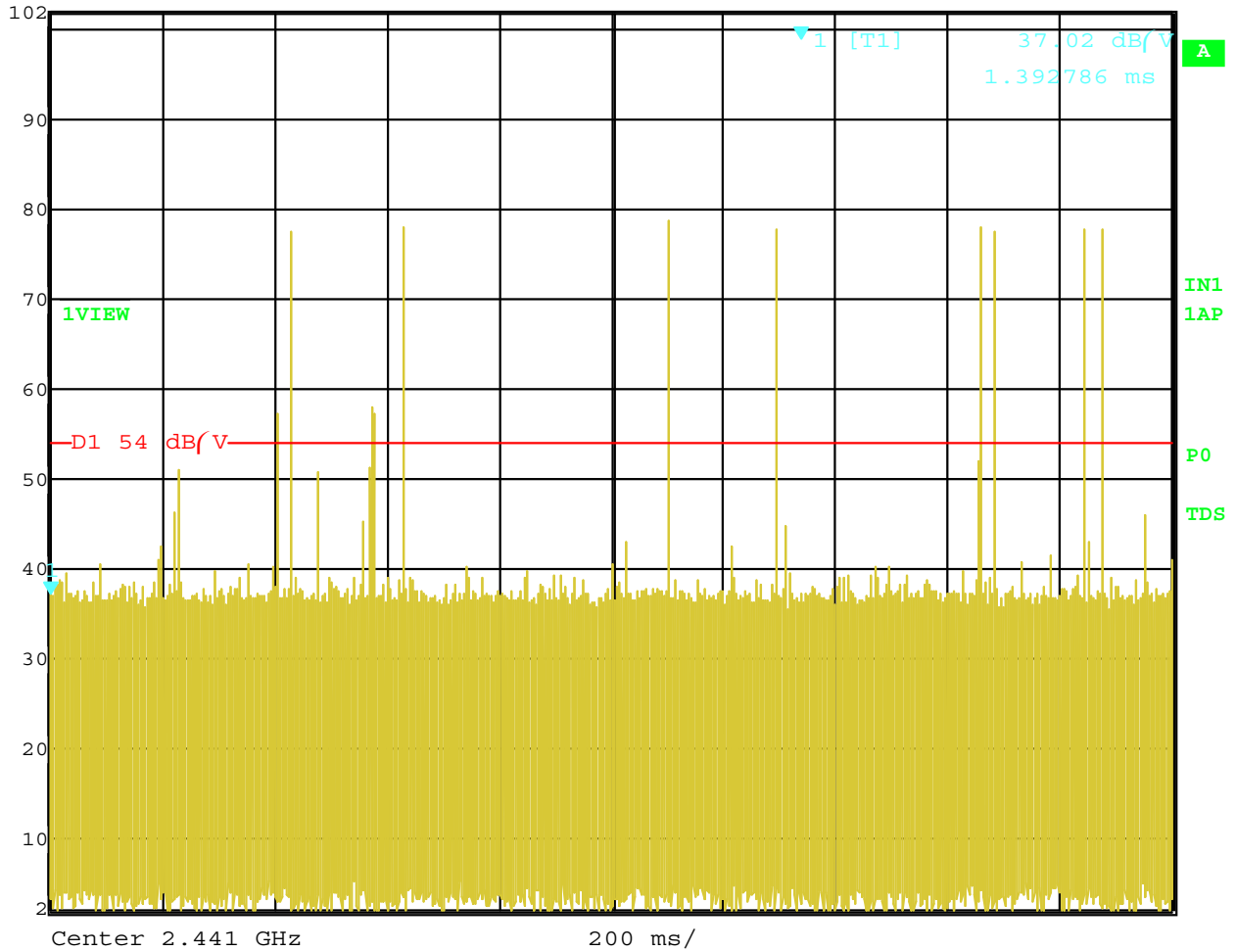


Date: 14.JUL.2009 08:04:29

Time of 1 Pulse = 260.521042 uS

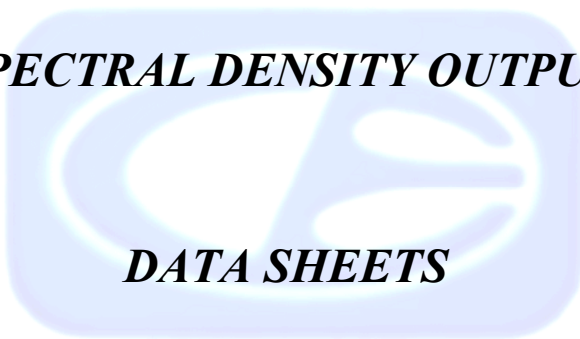


Ref Lvl 102 dB/V
Marker 1 [T1] 37.02 dB/V 1.392786 ms
RBW 1 MHz RF Att 10 dB
VBW 1 MHz
SWT 2 s Unit dB/V



Date: 14.JUL.2009 08:15:43

Number of Pulses in 2 Seconds = 8
Number of Pulses in 31.6 Seconds = $8 \times 15.8 = 126.4$ Pulses in a 31.6 Second Period
Time of Occupancy = $126.4 \times 260.521042 \mu\text{s} = 32.93 \text{ mS}$ per 31.6 Second Period
Limit = 400 mS per 31.6 Second Period (79 Channel * 400 mS)



SPECTRAL DENSITY OUTPUT

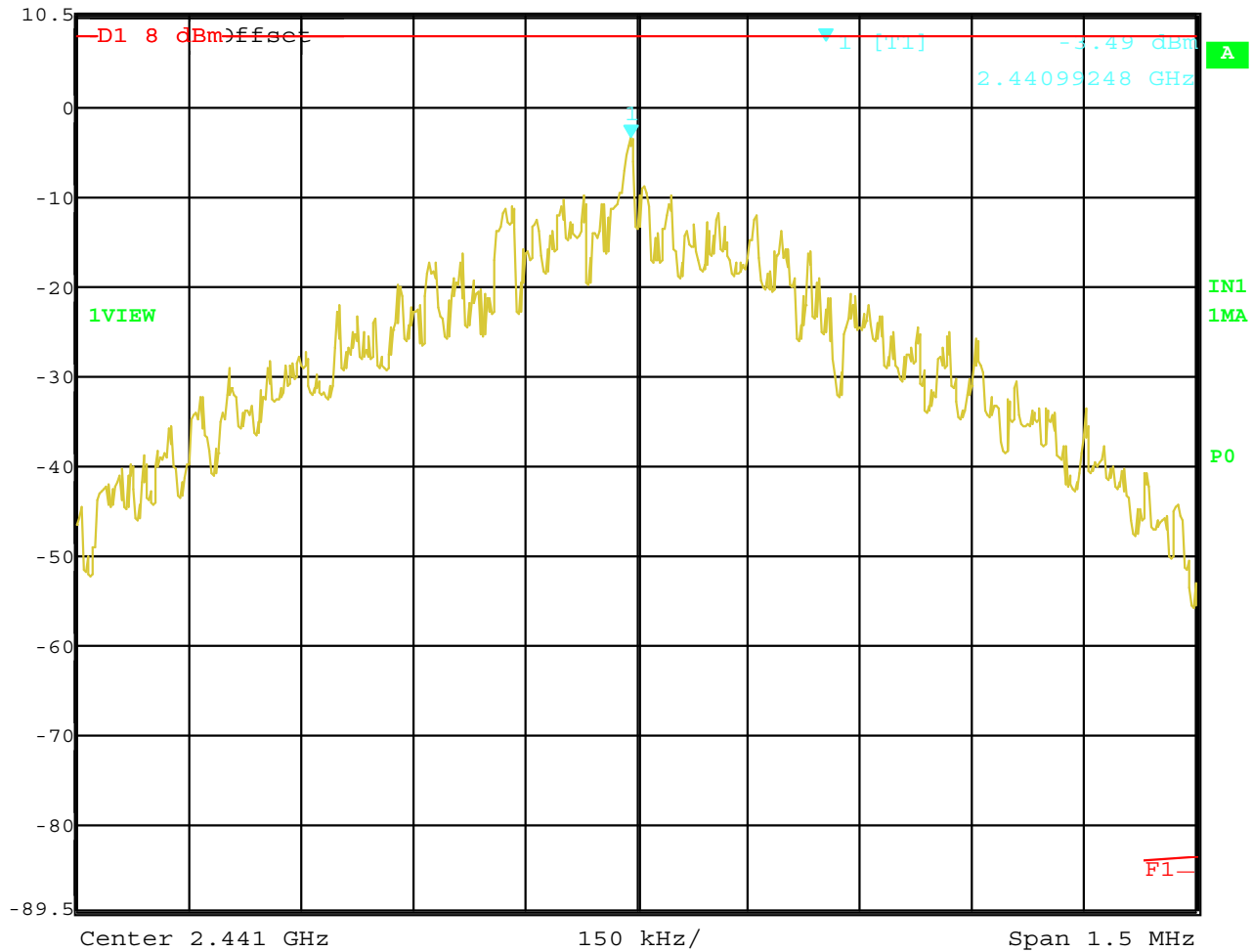
DATA SHEETS

Date: 14.JUL.2009 13:16:29

Spectral Density Output – Low Channel



Ref Lvl 10.5 dBm Marker 1 [T1] -3.49 dBm RBW 3 kHz RF Att 20 dB
2.44099248 GHz VBW 10 kHz Unit dBm
SWT 500 s

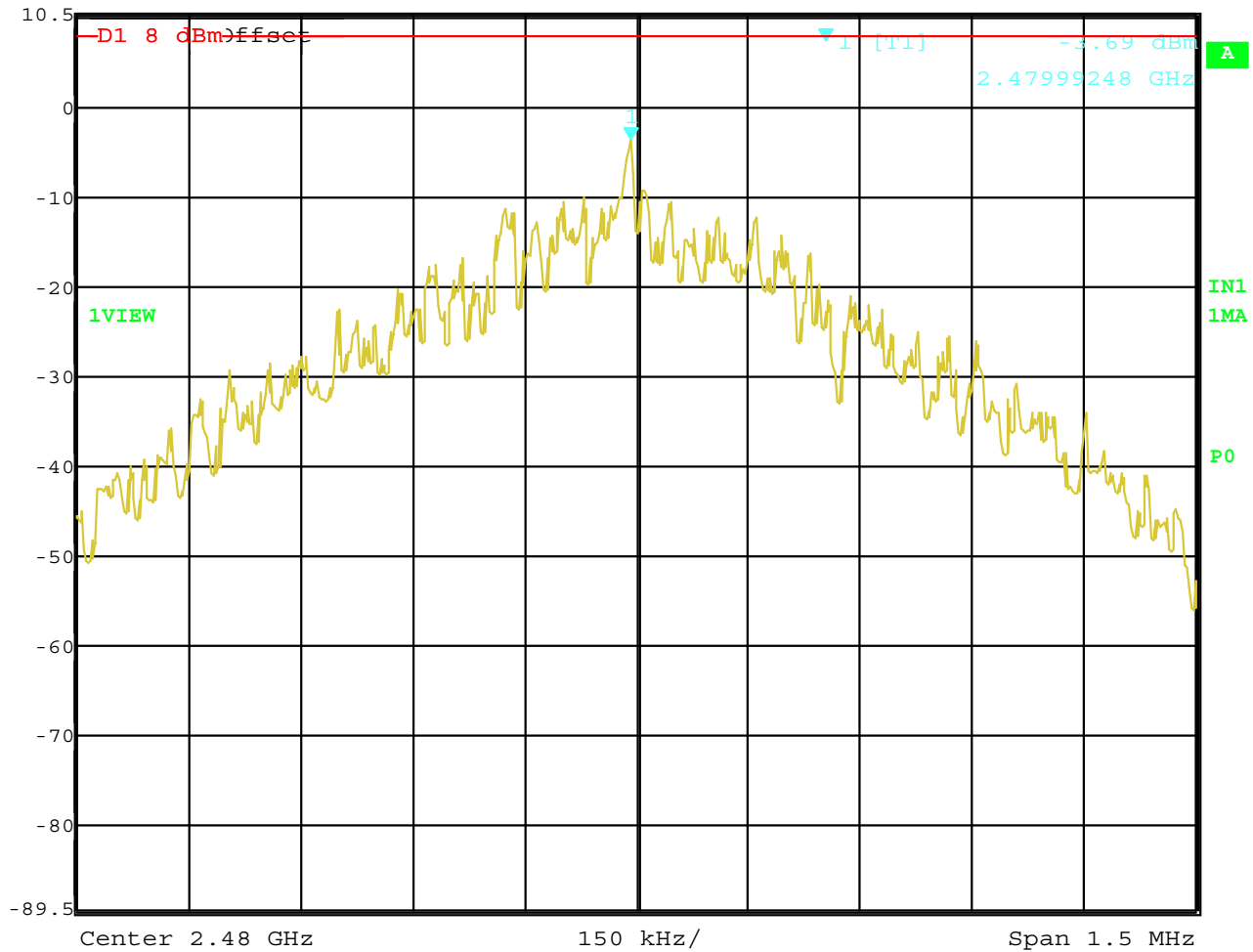


Date: 14.JUL.2009 13:38:42

Spectral Density Output – Middle Channel



Ref Lvl	Marker 1 [T1]	RBW	3 kHz	RF Att	20 dB
10.5 dBm	-3.69 dBm	VBW	10 kHz		
	2.47999248 GHz	SWT	500 s	Unit	dBm



Date: 14.JUL.2009 14:03:00

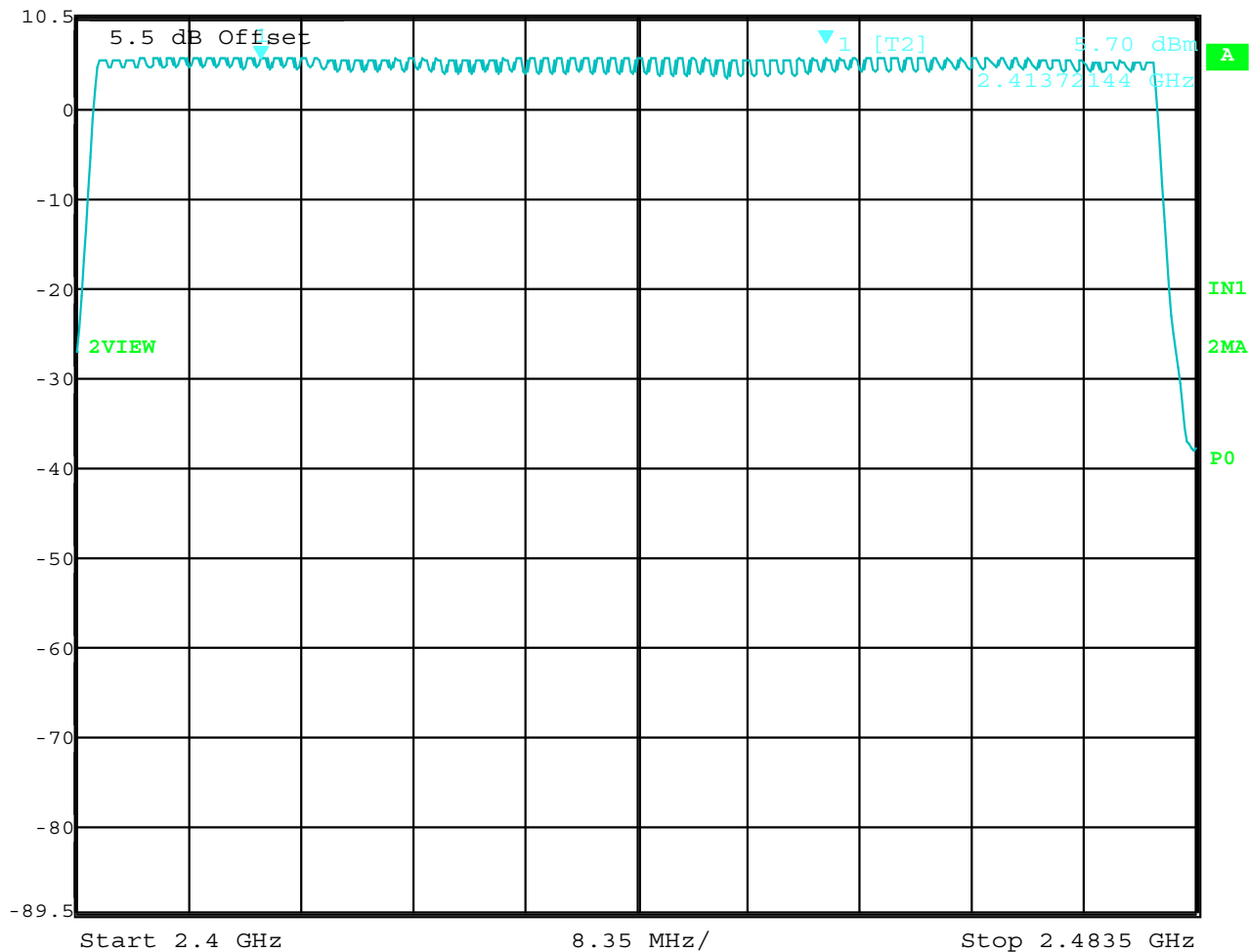
Spectral Density Output – High Channel

NUMBER OF HOPPING FREQUENCIES

DATA SHEET

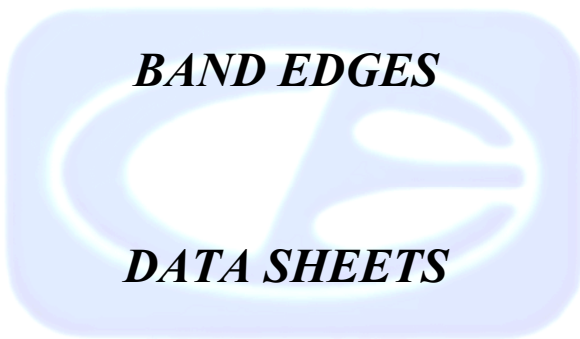


Marker 1 [T2] RBW 1 MHz RF Att 20 dB
Ref Lvl 5.70 dBm VBW 3 MHz
10.5 dBm 2.41372144 GHz SWT 5 ms Unit dBm



Date: 14.JUL.2009 14:22:05

Number of Frequencies (79 Total)



BAND EDGES

DATA SHEETS

FCC 15.247

WirelessWERX, Inc.
SiteWERX Base Station - Wired Version
Model: SBS03

Date: 07/14/09
Lab: B
Tested By: Kyle Fujimoto

Band Edges (Worst Case)

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2402	104.4	V	--	--	Peak	1.25	45	Fundamental of Low Channel
2402	84.4	V	--	--	Avg	1.25	45	Y-Axis @ 3 Meters
2386.09	48.66	V	54	-5.34	Peak	1.25	45	No Marker Delta Method
								Method Used
2402	93.17	H	--	--	Peak	2.25	135	Fundamental of Low Channel
2402	73.17	H	--	--	Avg	2.25	135	X-Axis @ 3 Meters
2385.95	43.31	H	54	-10.69	Peak	1.35	150	No Marker Delta Method
								Method Used

FCC 15.247

WirelessWERX, Inc.
SiteWERX Base Station - Wired Version
Model: SBS03

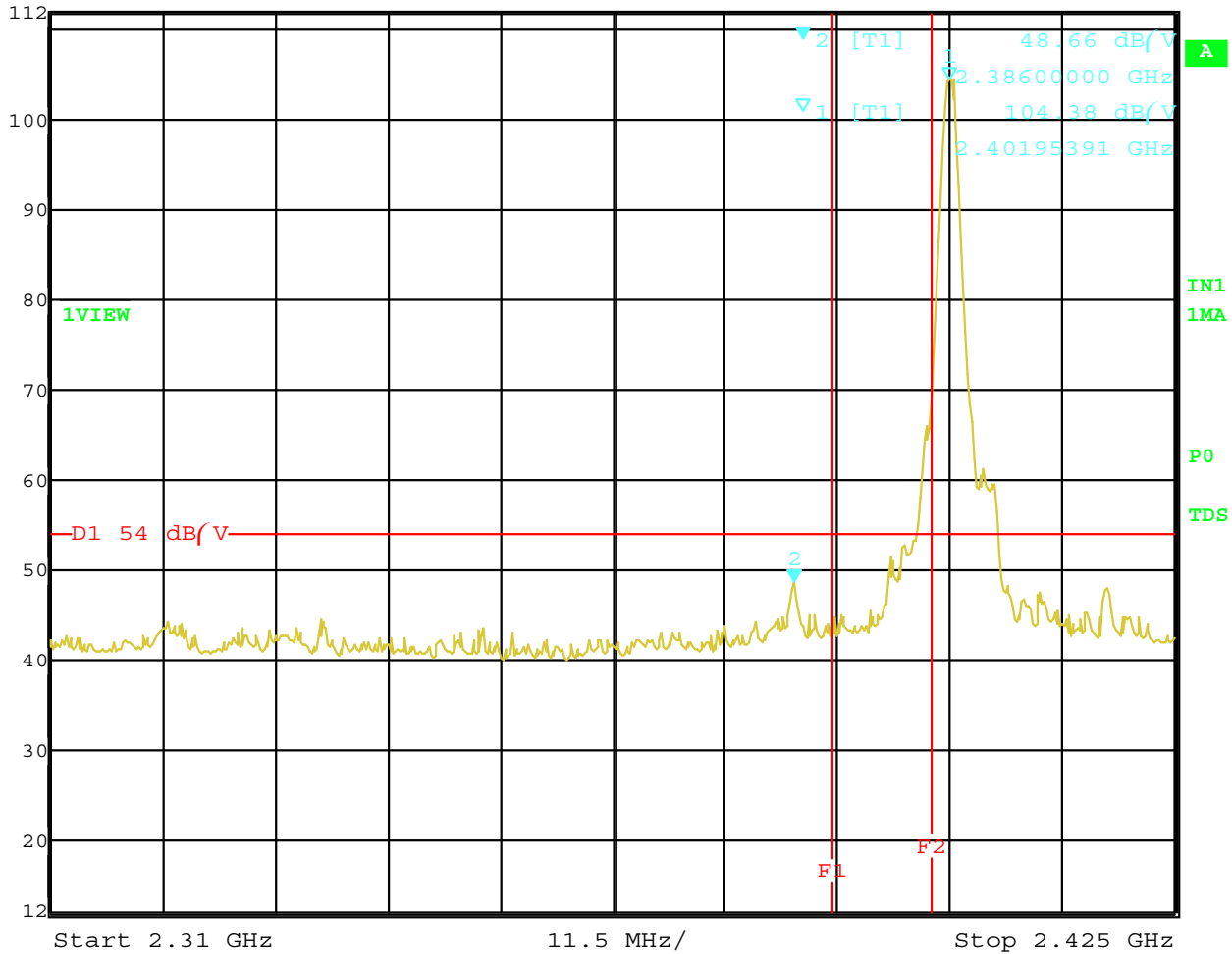
Date: 07/14/09
Lab: B
Tested By: Kyle Fujimoto

Band Edges (Worst Case)

Freq. (MHz)	Level (dBuV)	Pol (v/h)	Limit	Margin	Peak / QP / Avg	Ant. Height (m)	Table Angle (deg)	Comments
2480	102.6	V	--	--	Peak	1.25	135	Fundamental of Low Channel
2480	82.6	V	--	--	Avg	1.25	135	Y-Axis @ 3 Meters
2483.5	58.08	V	54	4.08	Peak	1.25	135	No Marker Delta Method
2483.5	50.71	V	54	-3.29	Avg	1.25	135	Method Used
2480	90.64	H	--	--	Peak	1.25	135	Fundamental of Low Channel
2480	70.64	H	--	--	Avg	1.25	135	X-Axis @ 3 Meters
2483.5	47.21	H	54	-6.79	Peak	1.25	135	No Marker Delta Method
								Method Used



Ref Lvl 112 dB/V
Marker 2 [T1] 48.66 dB/V
2.38600000 GHz
RBW 1 MHz
VBW 1 MHz
SWT 5 ms
RF Att 20 dB
Unit dB/V

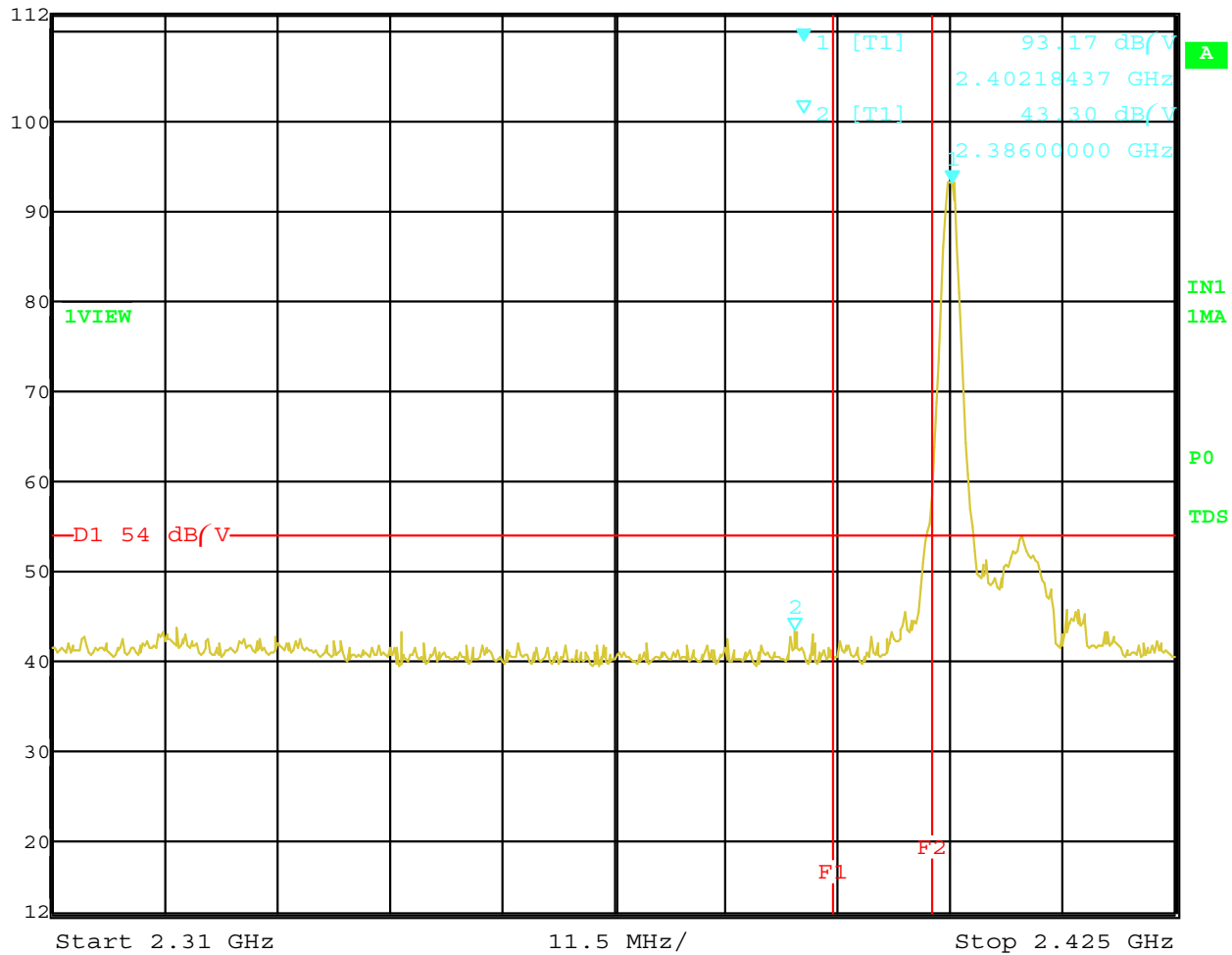


Date: 14.JUL.2009 09:24:18

Band Edge – Low Channel – Vertical Polarization – Y-Axis (Worst Case)



Ref Lvl 112 dB/V
Marker 1 [T1] 93.17 dB/V
2.40218437 GHz
RBW 1 MHz
VFV 1 MHz
SWT 5 ms
RF Att 20 dB
Unit dB/V

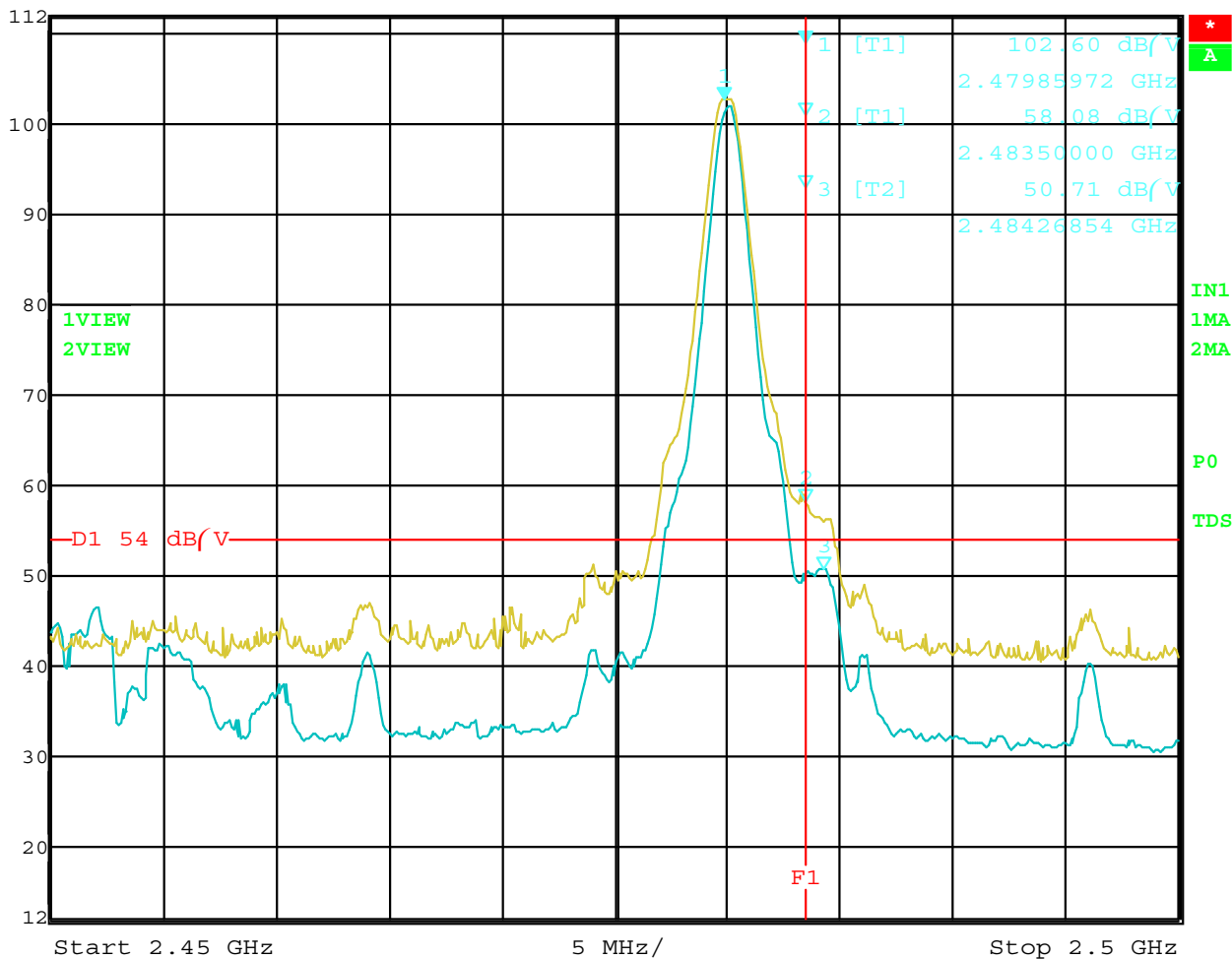


Date: 14.JUL.2009 09:31:33

Band Edge – Low Channel – Horizontal Polarization – X-Axis (Worst Case)



Ref Lvl 112 dB/V
Marker 1 [T1] 102.60 dB/V
2.47985972 GHz
RBW 1 MHz
VBW 5 kHz
SWT 25 ms
RF Att 20 dB
Unit dB/V

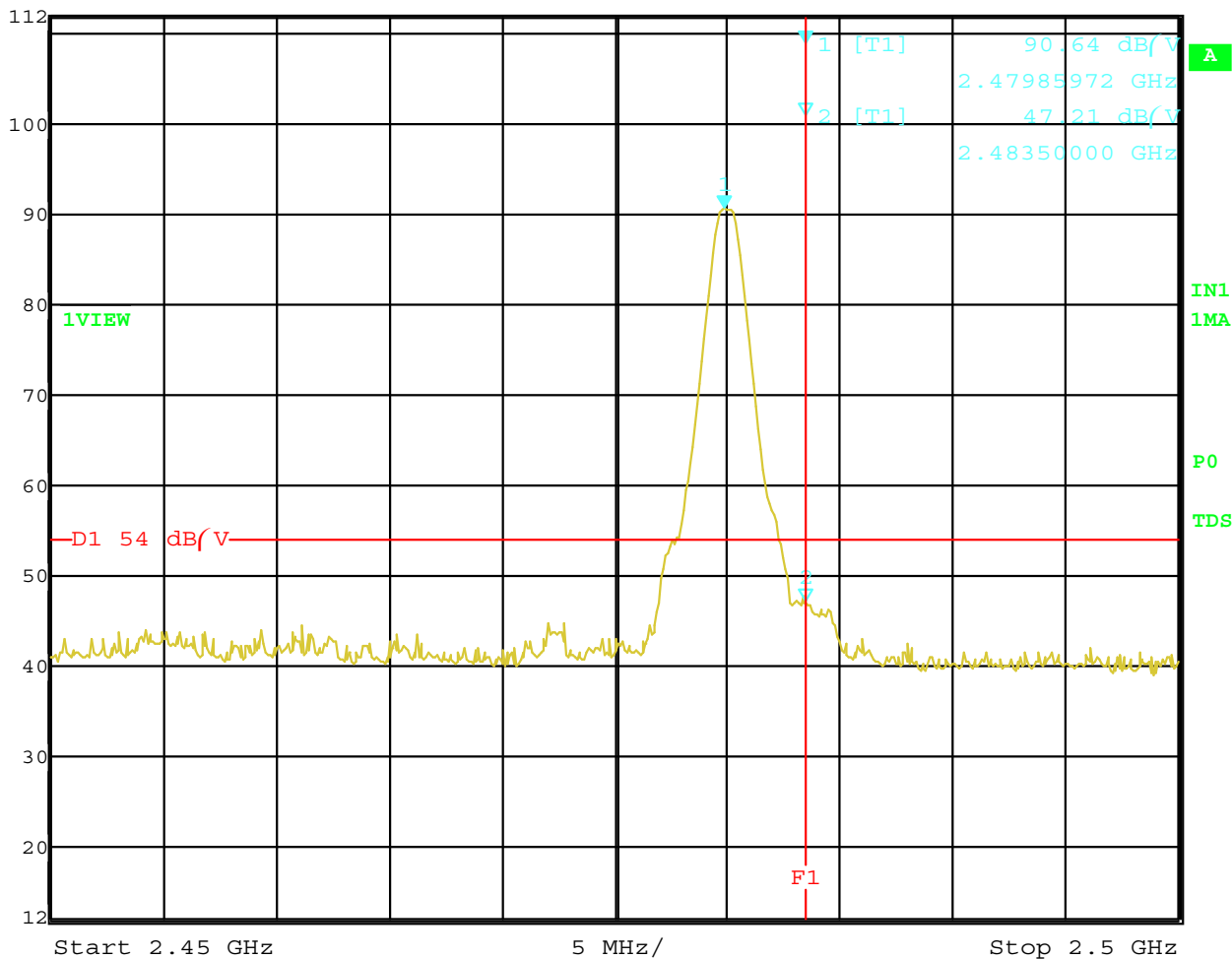


Date: 14.JUL.2009 10:50:13

Band Edge – High Channel – Vertical Polarization – X-Axis (Worst Case)



Ref Lvl 112 dB/V
Marker 1 [T1] 90.64 dB/V
2.47985972 GHz
RBW 1 MHz
VBW 1 MHz
SWT 5 ms
RF Att 20 dB
Unit dB/V



Date: 14.JUL.2009 11:00:34

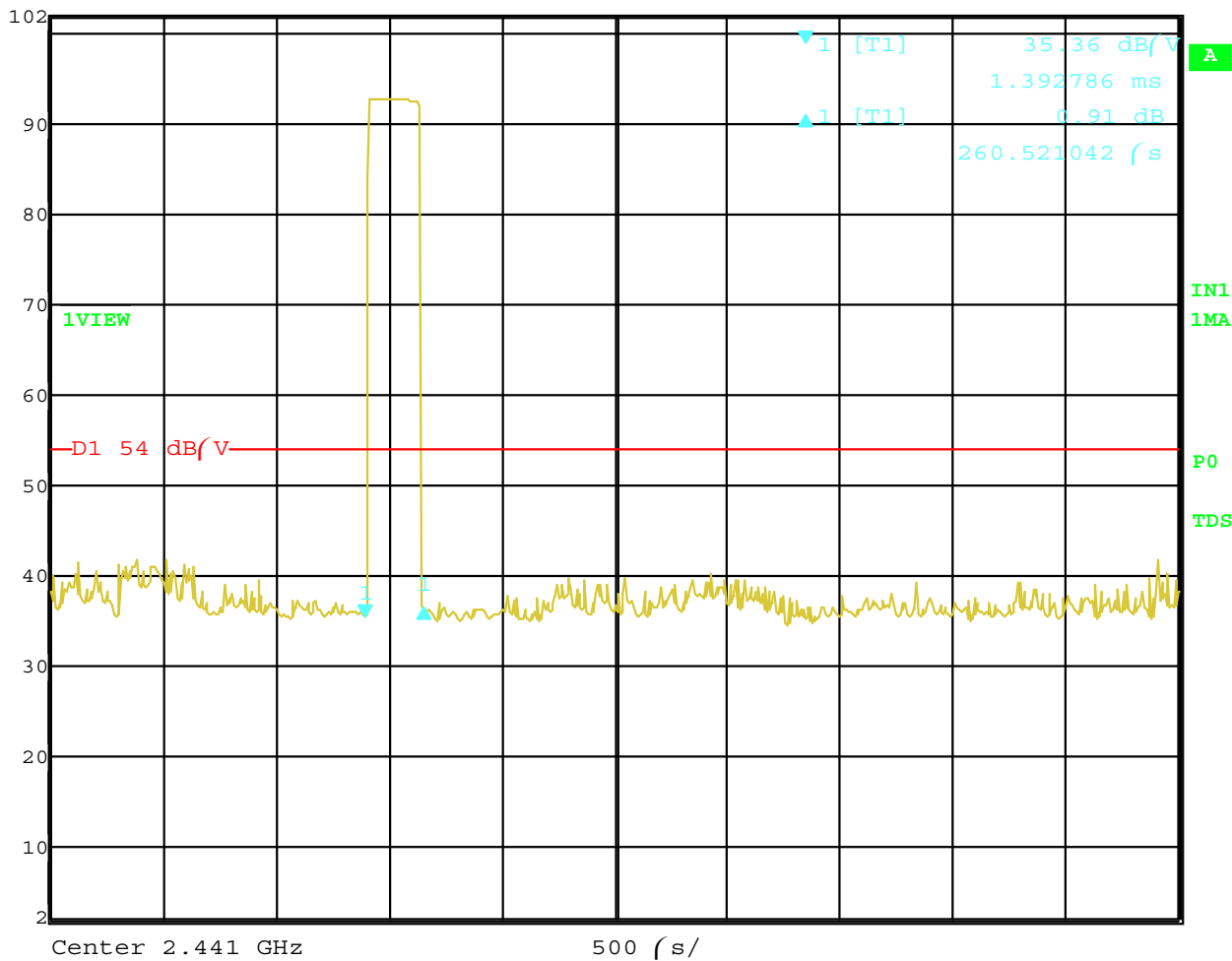
Band Edge – High Channel – Horizontal Polarization – Y-Axis (Worst Case)

DUTY CYCLE

DATA SHEETS



Ref Lvl 102 dB/V
Delta 1 [T1] 0.91 dB
260.521042 μ s
RBW 1 MHz
VBW 1 MHz
SWT 5 ms
RF Att 10 dB
Unit dB/V



Date: 14.JUL.2009 08:04:29

Time of 1 Pulse = 260.521042 μ s

