



Most Technology Service Co., Ltd.
Tel: (86) 755-26825180 Fax: (86) 755-86170310
Http:// www. szmost.com Email: szmost@szmost.com

Test Report

Product Name: Recordable Bluetooth Headset

FCC ID: XBM06-CE-BTVR1

MODEL NO. : 06-CE-BTVR1

Applicant:

Hoffco Brands, Inc.
4860 Ward Road, Wheat Ridge, CO 8033, USA

Date Received: 05/08/2009

Date Tested: 05/07/2009

APPLICANT: Hoffco Brands, Inc.
FCC ID: XBM06-CE-BTVR1

Cover Sheet



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FCC ID: XBM06-CE-BTVR1

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EMC Equipment List

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	100492	Mar 10,2009	1 Year
LISN	ROHDE&SCHWARZ	ENV216	100093	Mar 10,2009	1 Year
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101202	Mar 10,2009	1 Year
Spectrum Analyzer	ANRITSU	MS2651B	6200238316	Mar 10,2009	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10,2009	1 Year
Bilog Antenna	Sunol	JB3	A121206	Mar 10,2009	1 Year
Horn Antenna	EMCO	3115	640201028-06	Mar 10,2009	1 Year
50 Coaxial Switch	ANRITSU CORP	MP59B	6200283933	Mar 10,2009	1 Year
Cable	Resenberger	N/A	NO.1	Mar 10,2009	1 Year
Cable	SCHWARZBECK	N/A	NO.2	Mar 10,2009	1 Year
Cable	SCHWARZBECK	N/A	NO.3	Mar 10,2009	1 Year
Single Phase Power Line Filter	Kikusui	LIN40MA-PC R-L	LM002352	Mar 10,2009	1 Year
AC Power Source	Kikusui	AC40MA	LM003232	Mar 10,2009	1 Year
Test analyzer	Kikusui	KHA1000	LM003720	Mar 10,2009	1 Year
ESD Tester	Kikusui	KES4021	LM003537	Mar 10,2009	1 Year
Signal Generator	IFR	2032	203002/100	Mar 10,2009	1 Year
Amplifier	A&R	150W1000	301584	NCR	NCR
Dual Directional Coupler	A&R	DC6080	301508	Mar 10,2009	1 Year
Power Head	A&R	PH2000	301193	Mar 10,2009	1 Year
Power Meter	A&R	PM2002	302799	Mar 10,2009	1 Year
Field Monitor	A&R	FM5004	300329	Mar 10,2009	1 Year
Field Probe	A&R	FP5000	300221	Mar 10,2009	1 Year
EMCPRO System	EM Test	UCS-500-M4	V0648102026	Mar 10,2009	1 Year
EMCPRO System	EM Test	UCS-500-M4	V0648102026	Mar 10,2009	1 Year

Remark:

Test Firm Name: Most Technology Service Co., Ltd.

Test Firm Address:

No. 5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China

FCC Registered Test Site Number: 490827

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TEST PROCEDURE

GENERAL: This report shall NOT be reproduced except in full without the written approval of MOST TECHNOLOGY SERVICE CO., LTD. The EUT was transmitting a test signal during the testing.

POWER LINE CONDUCTED INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a 50 uH LISN. Both Lines were observed. The bandwidth of the receiver was 10kHz with an appropriate sweep speed. The ambient temperature of the EUT was 25 with a humidity of 58%.

RADIATION INTERFERENCE: The test procedure used was ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector. The analyzer was calibrated in dB above a micro volt at the output of the antenna. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz up to 1 GHz and 1 MHz with a video BW of 3 MHz above 1 GHz. The ambient temperature of the EUT was 25 with a humidity of 58%.

FORMULA OF CONVERSION FACTORS: The Field Strength at 3m was established by adding the meter reading of the spectrum analyzer (which is set to read in units of dBuV) to the antenna correction factor supplied by the antenna manufacturer and cable loss. The antenna correction factors and cable loss are stated in terms of dB. The gain of the Pre-selector was accounted for in the Spectrum Analyzer Meter Reading.

Example:

Freq (MHz) METER READING + ACF + CABLE = FS
33 20 dBuV + 10.36 dB + 0.9 dB = 31.26 dBuV/m @ 3m

ANSI STANDARD C63.4-2003 10.1.7 MEASUREMENT PROCEDURES: The EUT was placed on a table 80 cm high and with dimensions of 1m by 1.5m. The EUT was placed in the center of the table (1.5m side). The table used for radiated measurements is capable of continuous rotation. The spectrum was scanned from 30 MHz to 10th harmonic of the fundamental.

Peak readings were taken in three (3) orthogonal planes and the highest readings were converted to average readings based on the duration of "ON" time.

When an emission was found, the table was rotated to produce the maximum signal strength. At this point, the antenna was raised and lowered from 1m to 4m. The antenna was placed in both the horizontal and vertical planes.

The situation was similar for the conducted measurement except that the table did not rotate. The EUT was setup as described in ANSI Standard C63.4-2003 10.1.7 with the EUT 40 cm from the vertical ground wall.

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NAME OF TEST: POWER LINE CONDUCTED INTERFERENCE

RULES PART NUMBER: 15.207

REQUIREMENTS:

Frequency of Emission (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56 *	56 to 46 *
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST PROCEDURE: ANSI STANDARD C63.4-2003

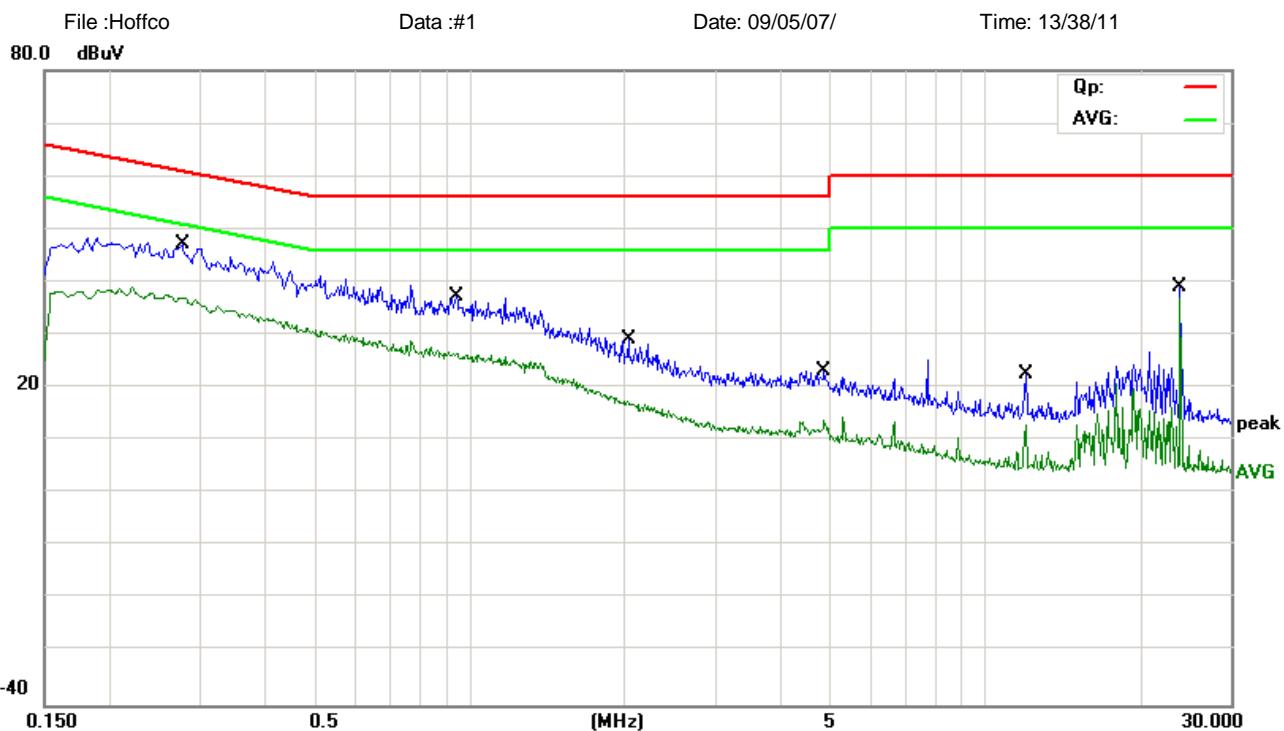
THE HIGHEST EMISSION READ FOR LINE 1 WAS 47.00dB_{UV} @ 0.278MHz.

THE HIGHEST EMISSION READ FOR LINE 2 WAS 42.53dB_{UV} @ 0.454MHz.

THE PLOTS ON THE NEXT PAGE REPRESENT THE EMISSIONS READ FOR POWER LINE CONDUCTED FOR THIS DEVICE.

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Conducted Emission Measurement

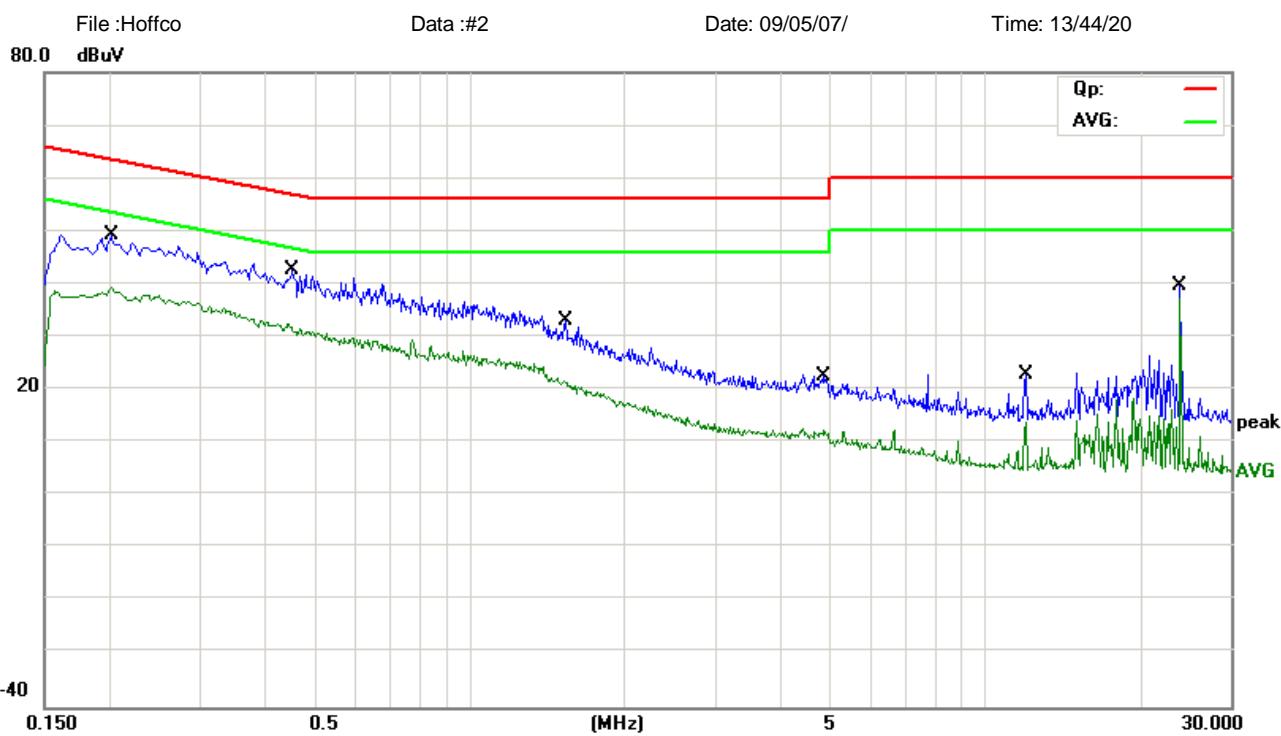


Site site #1 Phase: L1 Temperature: 26
 Limit: FCC Part15 C QP Power: DC 5V Adaptor AC 120V/60Hz Humidity: 60 %
 EUT: Recordable Bluetooth Headset
 M/N: 06-CE-BTVR1
 Mode: Charging
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.2780	35.52	11.48	47.00	60.88	-13.88	QP	
2		0.9460	27.17	10.00	37.17	56.00	-18.83	QP	
3		2.0380	19.99	9.04	29.03	56.00	-26.97	QP	
4		4.8940	11.19	11.89	23.08	56.00	-32.92	QP	
5		12.0020	13.67	9.00	22.67	60.00	-37.33	QP	
6		24.0020	30.11	9.00	39.11	60.00	-20.89	QP	

*:Maximum data x:Over limit !:over margin

Conducted Emission Measurement



Site site #1 Phase: N Temperature: 26
 Limit: FCC Part15 C QP Power: DC 5V Adaptor AC 120V/60Hz Humidity: 60 %
 EUT: Recordable Bluetooth Headset
 M/N: 06-CE-BTVR1
 Mode: Charging
 Note:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dB	Detector	Comment
1		0.2020	37.20	11.99	49.19	63.53	-14.34	QP
2	*	0.4540	32.22	10.31	42.53	56.80	-14.27	QP
3		1.5380	23.59	9.46	33.05	56.00	-22.95	QP
4		4.8940	10.52	11.89	22.41	56.00	-33.59	QP
5		12.0020	13.89	9.00	22.89	60.00	-37.11	QP
6		24.0020	30.63	9.00	39.63	60.00	-20.37	QP

*:Maximum data x:Over limit !:over margin



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NAME OF TEST: RADIATION INTERFERENCE

RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS:

FIELD STRENGTH of Fundamental:	FIELD STRENGTH of Harmonics	S15.209
902-928 MHz		30-88 MHz 40 dBuV/m @3m
2.4-2.4835 GHz		88-216 MHz 43.5
94 dBuV/m @3m	54 dBuV/m @3m	216-960 MHz 46 ABOVE 960 MHz 54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 Db BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REMARK: Emissions attenuated more than 20 dB below the permissible value are not reported.

Frequency (MHz)	Antenna Polarization	Emission Level (dBuV/m)			FCC 15 Subpart C Limit(dBuV/m)
		Avg	QP	Peak	
Low frequency (2402.00MHz)					
341.89	Vertical	---	30.93	34.01	46.0
2402.05	Vertical	---	---	86.24	94.0
4804.11	Vertical	---	---	32.09	54.0
7206.10	Vertical	---	---	32.14	54.0
9608.20	Vertical	---	---	32.19	54.0
319.70	Horizontal	---	33.20	35.60	46.0
2402.09	Horizontal	---	---	85.46	94.0
4804.01	Horizontal	---	---	34.64	54.0
7206.03	Horizontal	---	---	32.52	54.0
9608.12	Horizontal	---	---	30.10	54.0
Middle frequency (2441.00MHz)					
341.93	Vertical	---	31.24	34.55	46.0
2441.32	Vertical	---	---	85.59	94.0
4882.10	Vertical	---	---	32.27	54.0
7323.03	Vertical	---	---	30.43	54.0
9764.30	Vertical	---	---	32.80	54.0
319.54	Horizontal	---	34.01	36.10	46.0
2441.00	Horizontal	---	---	84.84	94.0
4882.11	Horizontal	---	---	32.16	54.0
7323.20	Horizontal	---	---	31.20	54.0
9764.09	Horizontal	---	---	30.19	54.0

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NAME OF TEST: RADIATION INTERFERENCE
RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS:

FIELD STRENGTH of Fundamental:	FIELD STRENGTH of Harmonics	S15.209
902-928 MHz 2.4-2.4835 GHz		30-88 MHz 40 dBuV/m @3m 88-216 MHz 43.5 216-960 MHz 46
94 dBuV/m @3m	54 dBuV/m @3m	ABOVE 960 MHz 54dBuV/m

EMISSIONS RADIATED OUTSIDE OF THE SPECIFIED FREQUENCY BANDS, EXCEPT FOR HARMONICS, SHALL BE ATTENUATED BY AT LEAST 50 Db BELOW THE LEVEL OF THE FUNDAMENTAL OR TO THE GENERAL RADIATED EMISSION LIMITS IN 15.209, WHICHEVER IS THE LESSER ATTENUATION.

REMARK: Emissions attenuated more than 20 dB below the permissible value are not reported.

Continued:

Frequency (MHz)	Antenna Polarization	Emission Level (dBuV/m)			FCC 15 Subpart C Limit(dBuV/m)
		Avg	QP	Peak	
High frequency (2480.00MHz)					
342.08	Vertical	---	32.45	35.38	46.0
2480.29	Vertical	---	---	87.05	94.0
4960.10	Vertical	---	---	31.43	54.0
7440.01	Vertical	---	---	32.24	54.0
9920.05	Vertical	---	---	31.32	54.0
319.21	Horizontal	---	31.92	34.56	46.0
2480.08	Horizontal	---	---	85.24	94.0
4960.10	Horizontal	---	---	32.24	54.0
7440.20	Horizontal	---	---	30.09	54.0
9920.02	Horizontal	---	---	34.63	54.0

Emissions attenuated more than 20 dB below the permissible value are not reported.

TEST PROCEDURE: ANSI Standard C63.4-2003 using a ANRITSU spectrum analyzer with a pre-selector and an appropriate antenna. The resolution bandwidth of spectrum analyzer was 100 kHz below 1 GHz and 1 MHz above 1 GHz. An appropriate sweep speed was used. When an emission was found, the table was rotated to produce the maximum signal strength. The antenna was placed in both the horizontal and vertical planes and the worse case emissions were reported. The spectrum was searched to at least the tenth (10) harmonic of the fundamental.



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NAME OF TEST: Occupied Bandwidth and Band Edge Compliance

RULES PART NUMBER: 15.249, 15.209

REQUIREMENTS: The field strength of any emissions appearing outside the band edges and up to 10 kHz above and below the band edges shall be attenuated at least 50 dB below the level of the carrier or to the general limits of 15.209.

Occupied Bandwidth emissions plots are included on the following pages

METHOD OF MEASUREMENT: A small sample of the transmitter output was fed into the Spectrum analyzer and the attached plot was printed. The vertical scale is set to-10 dB per division.

TEST RESULTS: The unit does meet the FCC requirements.

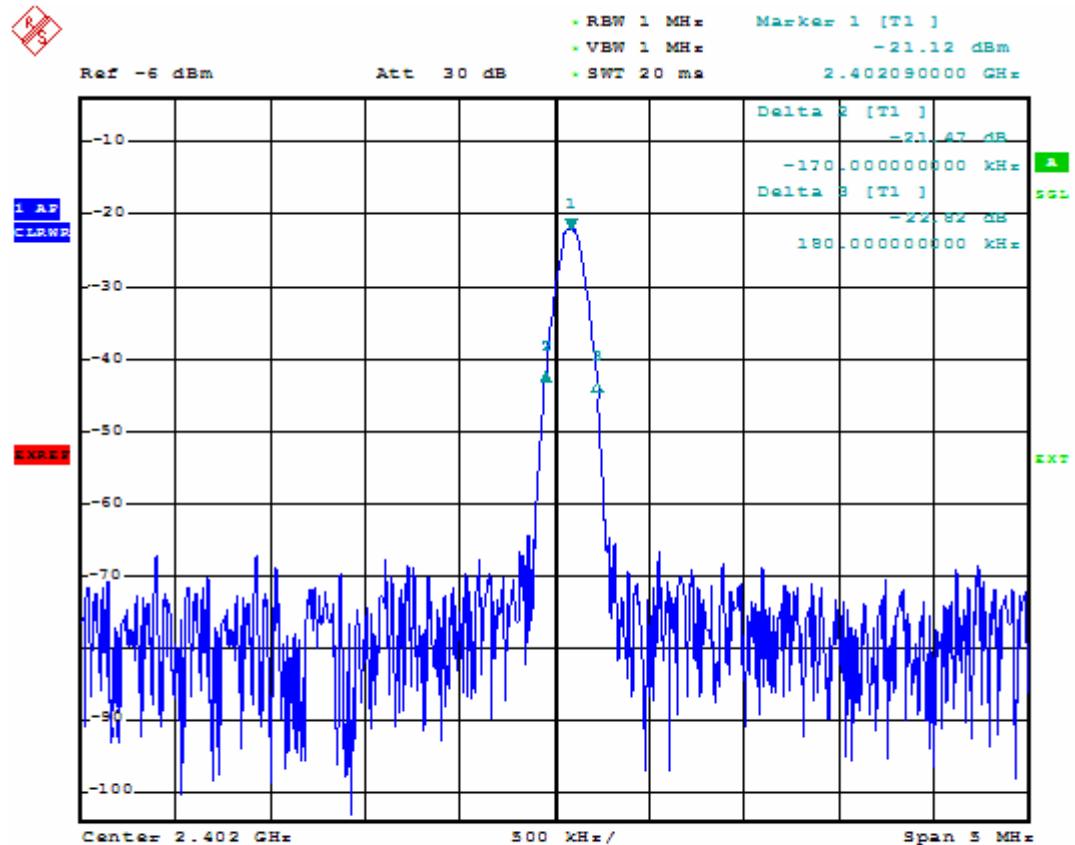
Band Edge Compliance Test						
Band Edge Frequency	Antenna Polarization	AV dBuV/m	QP dBuV/m	Peak dBuV/m	Limit (Peak) dBuV/m	Limit (AV) dBuV/m
2390.0 MHz	H	45.10	---	56.05	74.00	54.00
2390.0 MHz	V	43.37	---	55.18	74.00	54.00
2483.5 MHz	H	44.19	---	54.39	74.00	54.00
2483.5 MHz	V	43.28	---	54.02	74.00	54.00

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Low



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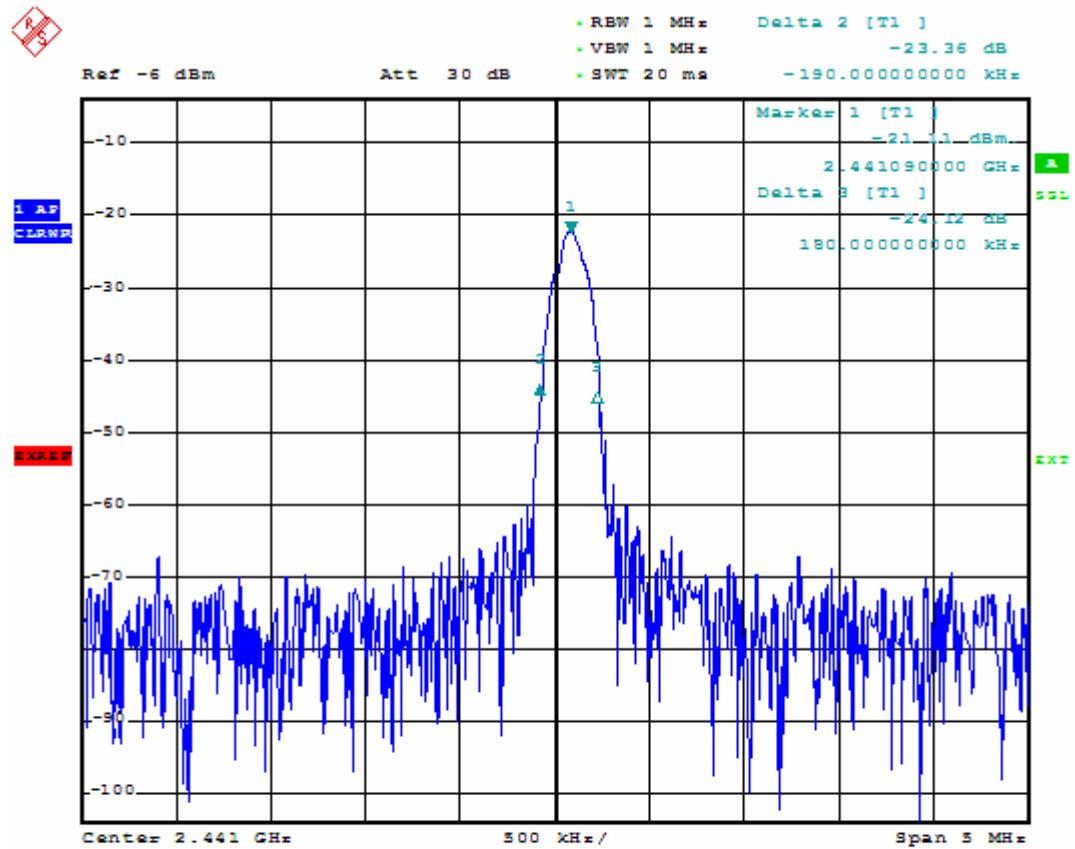


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Middle



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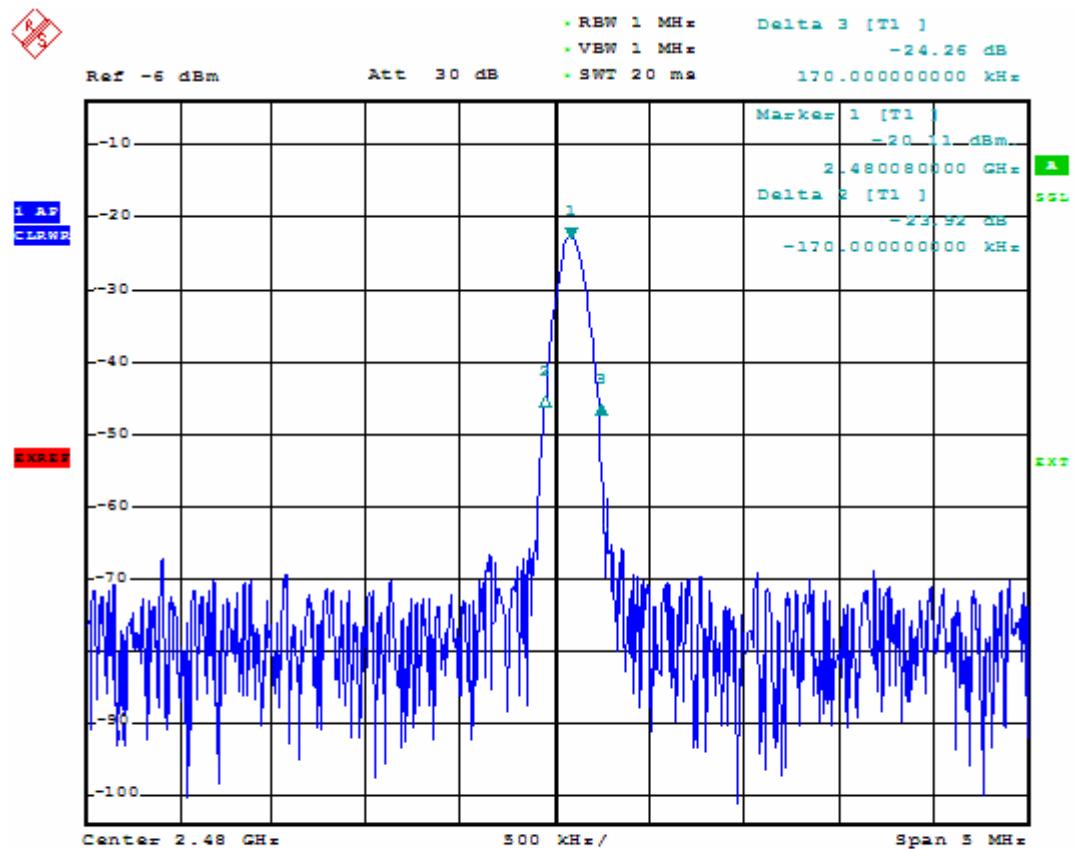


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High



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