



Test report no. : 162680-2

Item tested : RF module

**Type of equipment : IEEE 802.15.4,
2.4 GHz Module**

FCC ID : Y7VPCBA9002

Client : VingCard Elsafe AS

FCC Part 15.247
Digital Transmission System

RSS-210 Issue 8 & RSS Gen Issue 3
Low Power Licence-Exempt
Radio communication Devices

19 March 2012

A handwritten signature in blue ink, reading 'Frode Sveinsen'.

Authorized by :

Frode Sveinsen
Technical Verificator

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1 GENERAL INFORMATION

1.1 Testhouse Info

Name : Nemko AS
Address : Nemko Kjeller
Instituttveien 6, Box 96
NO-2027 Kjeller, NORWAY
Telephone : +47 64 84 57 00
Fax : +47 64 84 57 05
Email: comlab@nemko.no
FCC test firm : 994405
IC OATS : 2040D-1
Total Number of Pages: 62

1.2 Client Information

Name : VingCard Elsafe AS
Address : Hammerberget,
7120 Leksvik, Norway
Telephone : +47 74 85 35 33
Fax : --

Contact:

Name : Siri S. Grande
Telephone : +47 74 85 35 33
E-mail : sgrande@vcegroup.com

1.3 Manufacturer

Same as client

2 Test Information

2.1 Test Item

Name :	RF module
Model/version :	PCB Assembly 9002
Serial number :	1005 HA
Hardware identity and/or version:	4821930 Rev. B
Software identity and/or version :	4822287 Rev. B
Frequency Range :	2405 – 2475 MHz
Number of Channels :	15
Operating Modes :	TX & RX
Type of Modulation :	DSSS/O-QPSK
Emissions Designator :	G1D
User Frequency Adjustment :	None, Software controlled
Type of Power Supply :	Battery (7.5 V DC)
Antenna Connector :	None
Antenna type:	Integral
Antenna Diversity Supported :	None

Theory of Operation

This designed for wireless applications, such as IEEE 802.15.4 and ZigBee.

2.2 Test Environment

2.2.1 Normal test condition

Temperature: 20 - 22 °C

Relative humidity: 20 - 40 %

Normal test voltage: 7.5 V DC

The values are the limit registered during the test period.

2.3 Test Period

Item received date: 2010.12.07

Test period : from 2010.12.15 to 2011.01.04 and 2012.03.16

3 TEST REPORT SUMMARY

3.1 General

Manufacturer: VingCard Elsafe AS
Model No.: PCB Assembly 9002
Serial No.: 1005 HA

All measurements are traceable to national standards.

The tests were performed for the purpose of demonstrating compliance with FCC CFR 47 Part 15.247.

Radiated tests were performed in accordance with ANSI C63.4-2009 and ANSI C63.10-2009. The radiated tests were made in a semi-anechoic chamber at measuring distances of 3 and 10 meters.

☒ New Submission

☒ Production Unit

☐ Class II Permissive Change

☐ Pre-production Unit

DTS Equipment Code

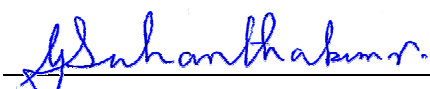
☐ Family Listing

THIS TEST REPORT RELATES ONLY TO THE ITEM (S) TESTED.

Deviations from, additions to, or exclusions from the test specifications are described in "Summary of Test Data".



TEST REPORT #: 162820-2

TESTED BY: 
G.Suhanthakumar, Test engineer

DATE: 2012-03-16

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This test report applies only to the items and configurations tested.

3.2 Test Summary

Name of test	FCC Part 15 reference	RSS210 Issue 7 & RSS Gen Issue 3	Result
Supply voltage variations	15.31 (e)	8 (RSS-GEN)	Complies
Number of operating frequencies	15.31 (m)	A8.1	Complies
Power-line Conducted Emissions (Receiver)	15.107(a)	7.2.2 (RSS-GEN)	N/A ²
Radiated Emissions limits (receiver)	15.109(a)	6 (RSS-GEN)	ref. 15.209(a)
Antenna requirement	15.203	7.1.4 (RSS-GEN)	N/A ¹
Radiated emissions limits for restricted bands	15.205(a)		Complies
Power Line Conducted Emissions	15.207(a)	7.2.2 (RSS-GEN)	N/A ²
Radiated emission limits	15.209(a)	A8.5	Complies
Bandwidth	15.247(a)(2)	A8.2	Complies
Peak Power Output	15.247(b)(3)	A8.4	Complies
Power Spectral Density	15.247(d)	A8.2	Complies
Out-of-band emissions (Antenna Conducted)	15.247(c)	A8.5	Complies ¹
Out-of-band emissions (Radiated)	15.247(c)	A8.5	Complies
Lower band edge radiated emission	15.247(c)	A8.5	Complies
Upper band edge radiated emission	15.247(c)	A8.5	Complies

¹ standard SMA connector (for laboratory use).

² Battery operated.

3.3 Description of modification for Modification Filing

Not applicable.

3.4 Comments

The channels are selected with controller connected to the EUT. The measurements are performed at channels near top Ch 14, near middle Ch 7 and near bottom Ch 0. And the output level is set to maximum in the software. The EUT complies at these channels.

The radiated measurements are tested on three axis.

Power supply variation within manufacturer specified range 4.5 – 9.5V DC has no influence on measured values in this test report.

A temporary antenna connector was used only for making conducted RF measurements for evaluation purposes.

3.5 Family List Rationale

Not Applicable.

4 TEST RESULTS

4.1 Minimum 6 dB Bandwidth

Para. No.: 15.247 (a)(2)

Test Performed By: G.Suwanthakumar

Date of Test: 15-Dec-2010 &
16-Mar-2012

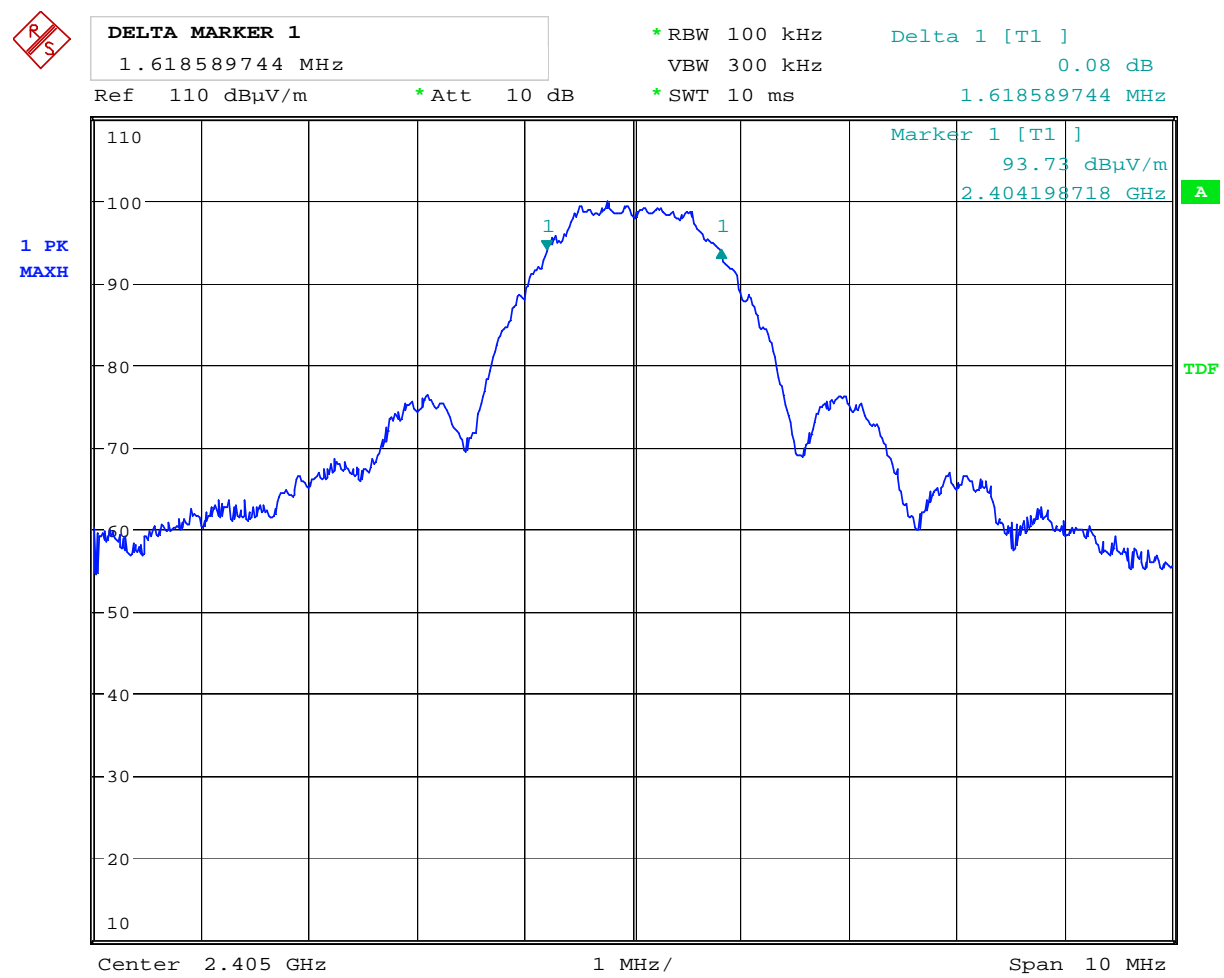
Test Results: Complies

Measurement Data:

6 dB Bandwidth (MHz)		
Ch 0 2405MHz	Ch 7 2440MHz	Ch 14 2475MHz
1.62	1.63	1.62

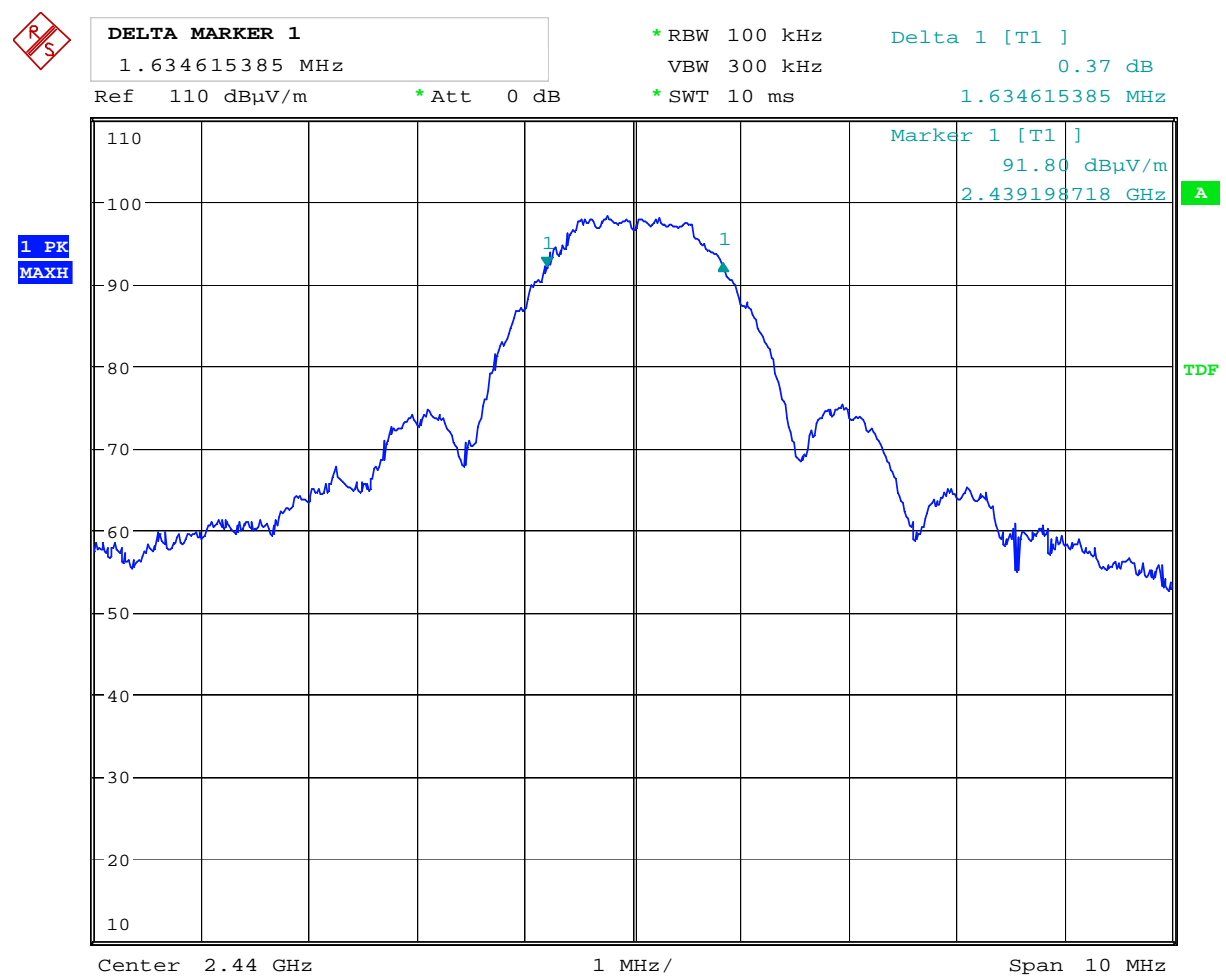
Requirements:

For Digital Transmission Systems in the 2400-2483.5 MHz band the minimum 6 dB bandwidth shall be at least 500 KHz.



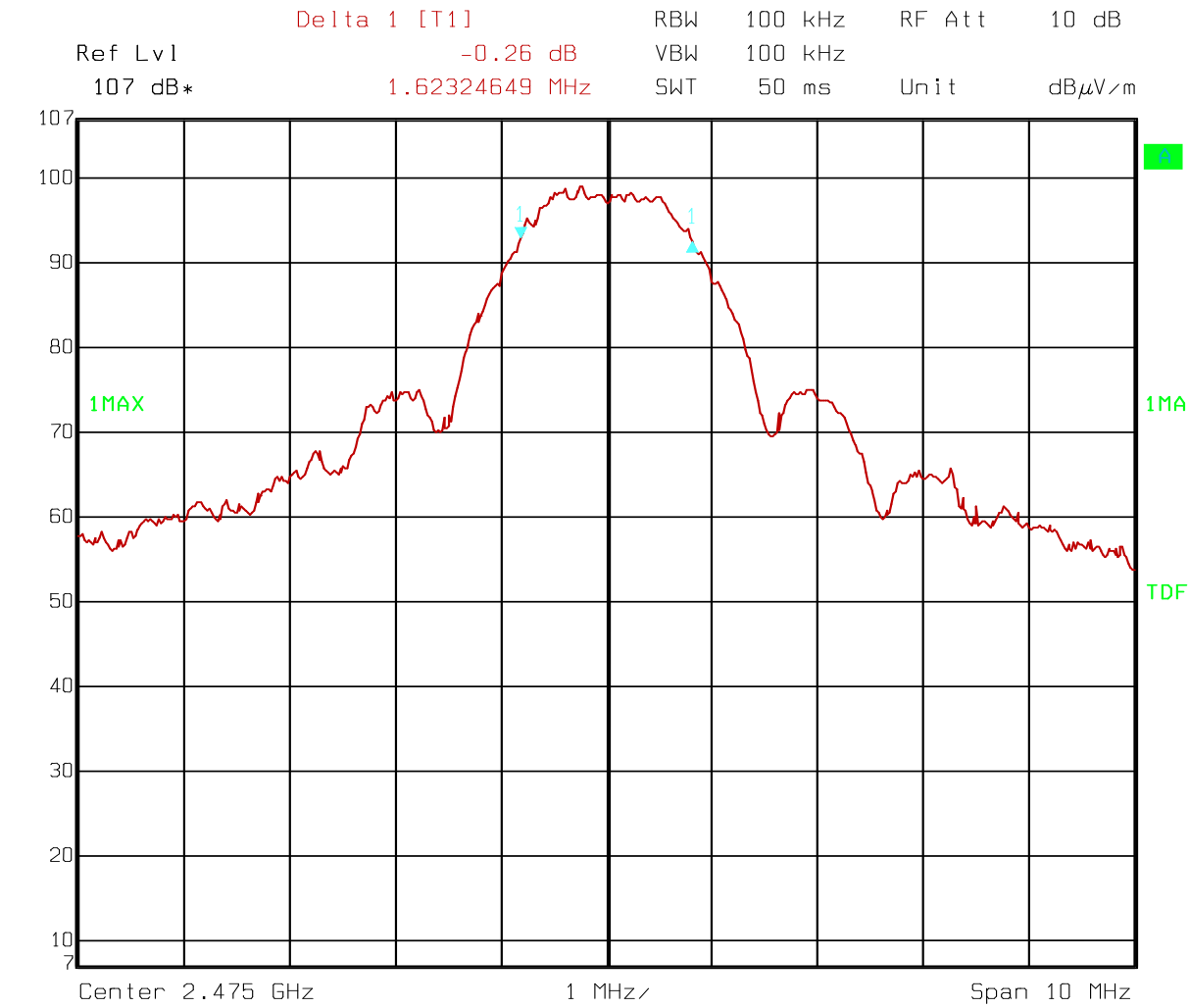
Date: 15.DEC.2010 10:29:13

Ch0 – 6 dB bandwidth – 1.62MHz



Date: 15.DEC.2010 11:06:09

Ch7 – 6 dB bandwidth – 1.63MHz



Date: 16.MAR.2012 14:21:56

CH14 – 6 dB bandwidth – 1.62MHz

4.2 20 dB Bandwidth

Para. No.: RSS210

Test Performed By: G.Suwanthakumar

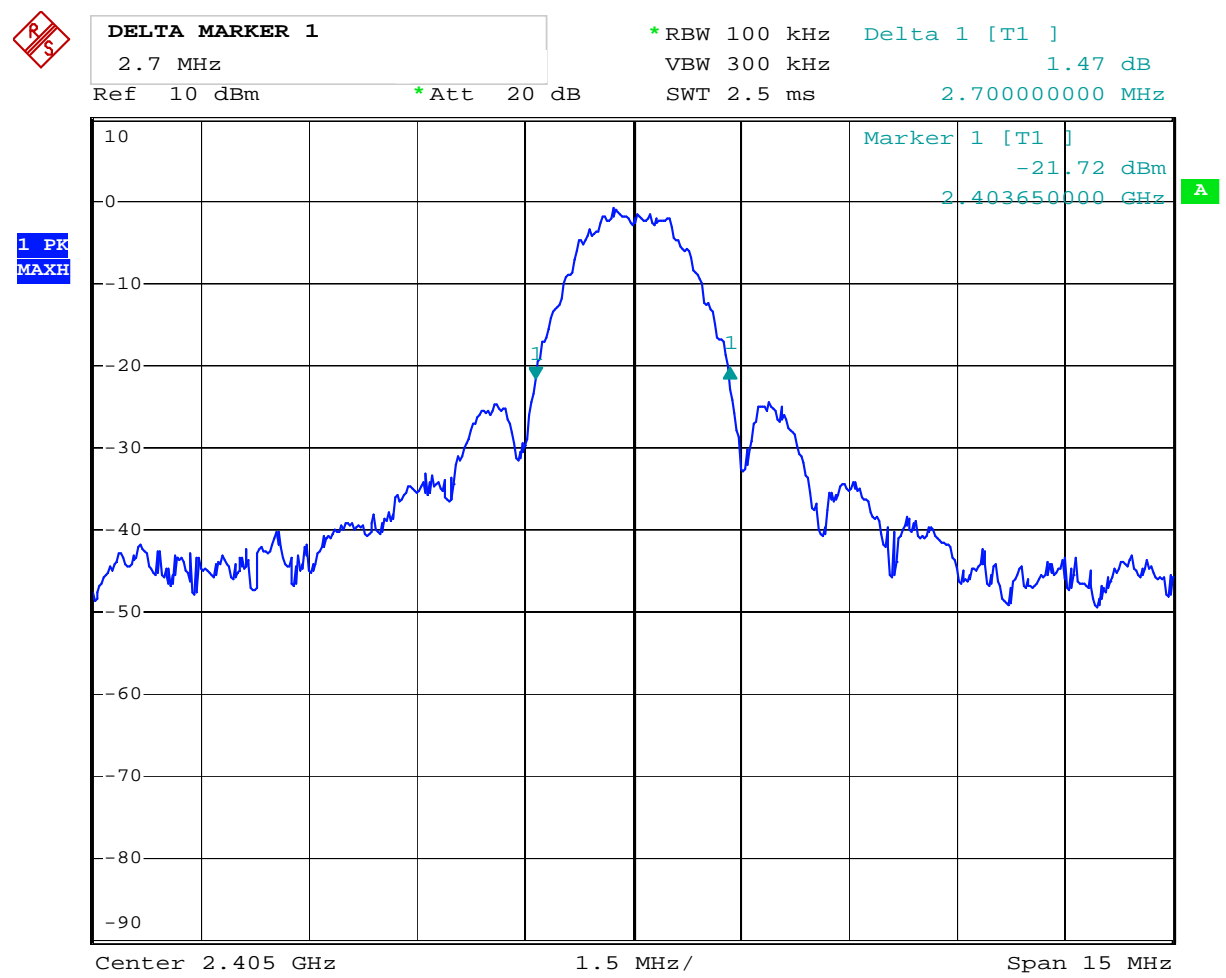
Date of Test: 15-03-2011 &
16-03-2012

Measurement Data:

20 dB Bandwidth (MHz)		
Ch 0 2405MHz	Ch 7 2440MHz	Ch 14 2475MHz
2.70	2.67	2.71

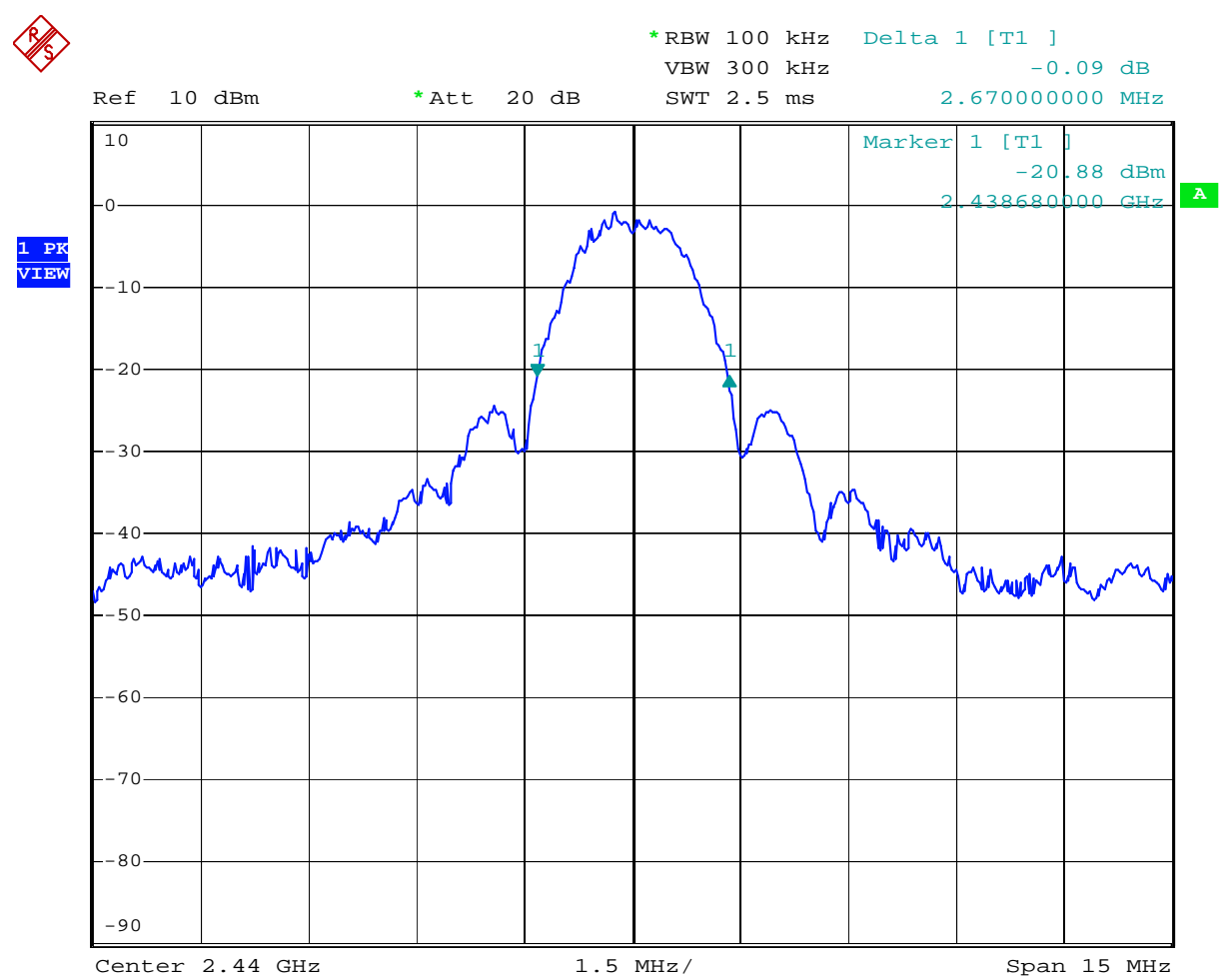
Requirements:

For information only



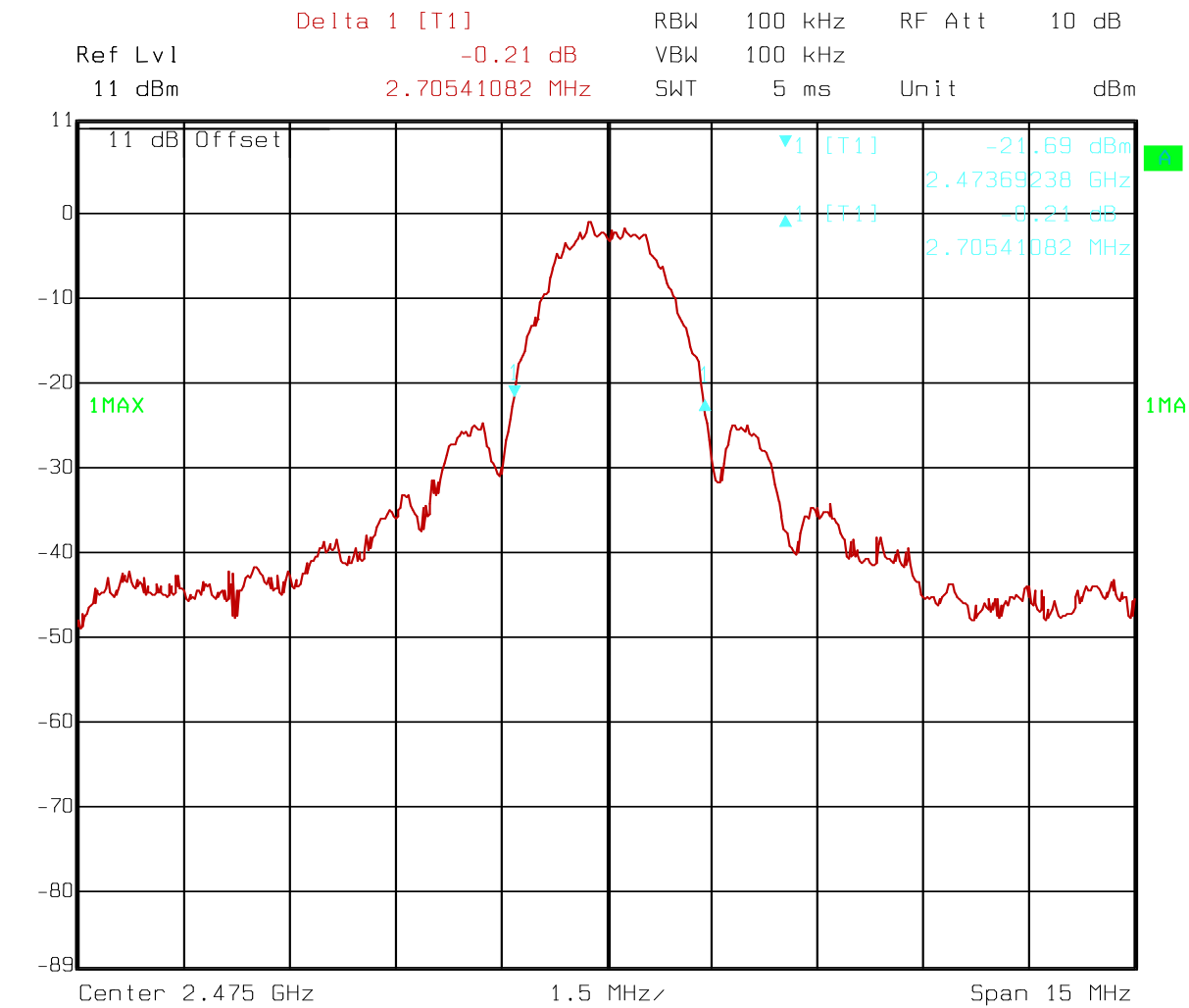
Date: 15.MAR.2011 13:38:55

20 dB BW – CH 2405MHz



Date: 15.MAR.2011 13:40:35

20 dB BW – CH 2440MHz



Date: 16.MAR.2012 15:25:58

20 dB BW – CH 2475MHz

4.3 Peak Power Output

Para. No.: 15.247 (b)

Test Performed By: G.Suwanthakumar

Date of Test: 15-Dec-2010 & 16-Mar-2012

Test Results: Complies

Measurement Data:

Maximum Conducted Peak Output Power

RF channel	Ch 0	Ch 7	Ch 14
Measured value (dBm)	3.51	3.06	2.29
Measured value (Watt)	0.0022	0.0020	0.0017

RBW=3MHz, VBW=10MHz, Peak detector

Maximum Field strength

RF channel	Ch 0	Ch 7	Ch 14
HP: Measured value (dBμV/m)	103.55	102.99	102.43
VP: Measured value (dBμV/m)	92.14	93.79	93.69

Maximum EIRP

RF channel	Ch 0	Ch 7	Ch 14
Measured EIRP (dBm)	4.00	4.25	4.55
Antenna gain dBi	0.49	1.19	2.29

Substitution:

Frequency MHz	Measured value dBm	Subst. Gen. dBm	Attenuator and Cable dB	Gain Subst. Antenna dB	Result dBm
2405	-38.55	9.24	-13.64	8.4	4.00
2440	-38.53	9.45	-13.80	8.6	4.25
2475	-39.99	9.51	-13.96	9.0	4.55

Correction factor = (Subst.Gen. + Attenuator + Cable + Antenna Gain)

Result(eirp) = (Correction factor + Measured value)

Antenna gain = (EIRP -Conducted Power) dBi

The EIRP is measured using substitution method. The maximum eirp is obtained at horizontal polarization.

Power supply variation within manufacturer specified range 4.5 – 9.5V DC has no influence on measured values

Detachable antenna?

☐ Yes ☒ No

If detachable, is the antenna connector non-standard?

☐ Yes ☐ No

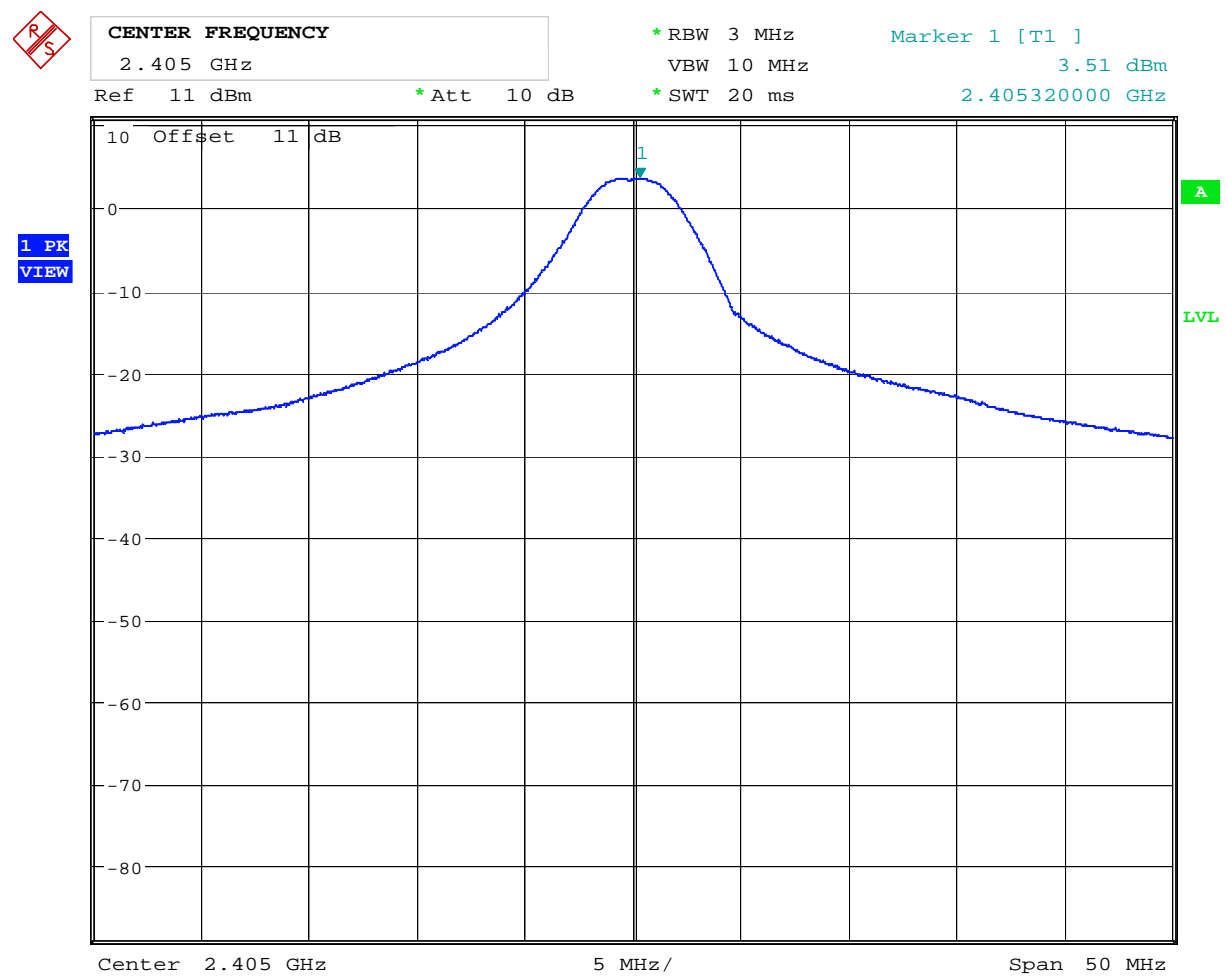
Comment: /

Requirements:

The maximum peak output power shall not exceed the following limits:

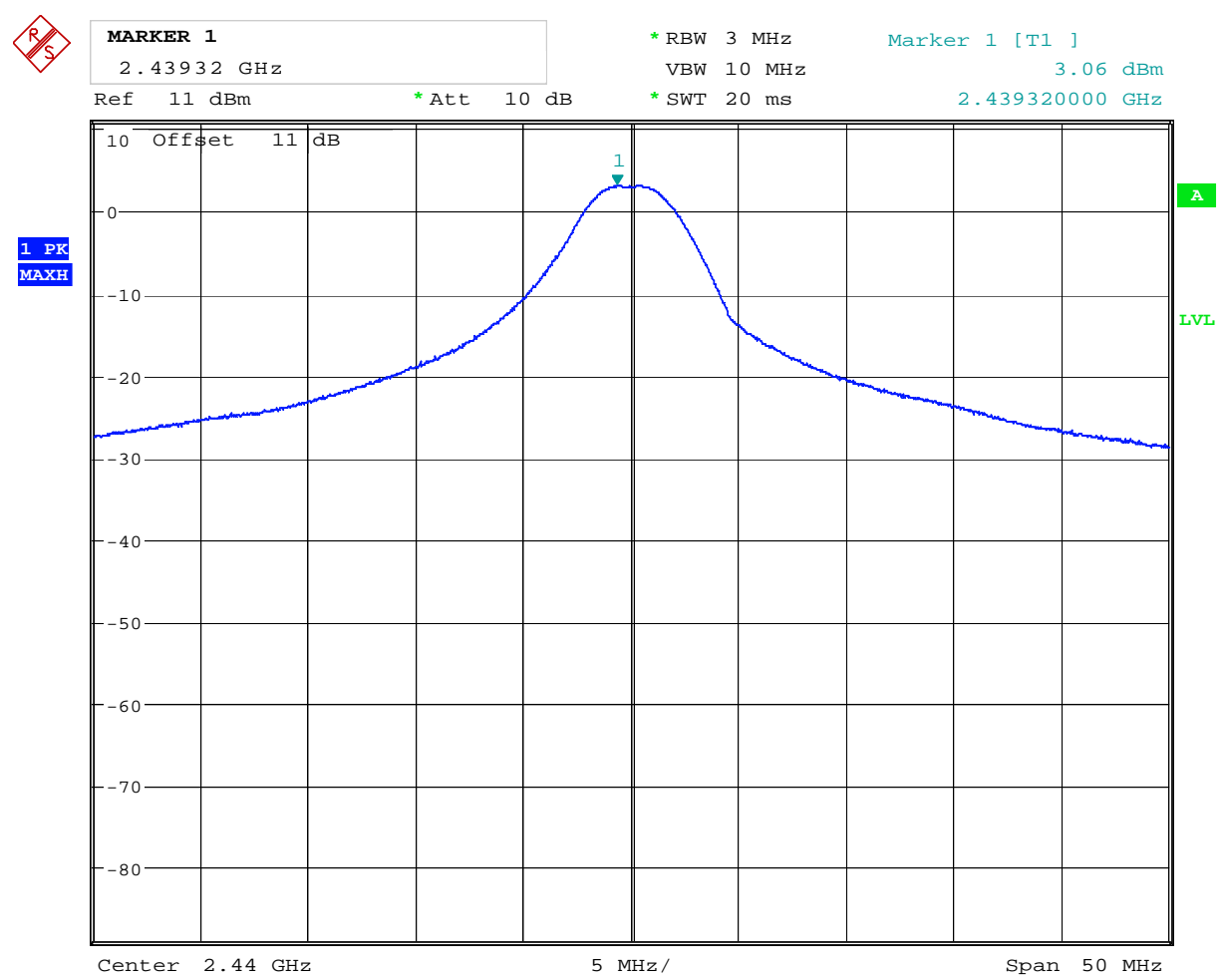
For Digital Transmission Systems in the 2400 - 2483.5 MHz band: 1 Watt

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power from the intentional radiator shall be reduced below the stated value above by the amount in dB that the directional gain of the antenna exceeds 6 dBi.



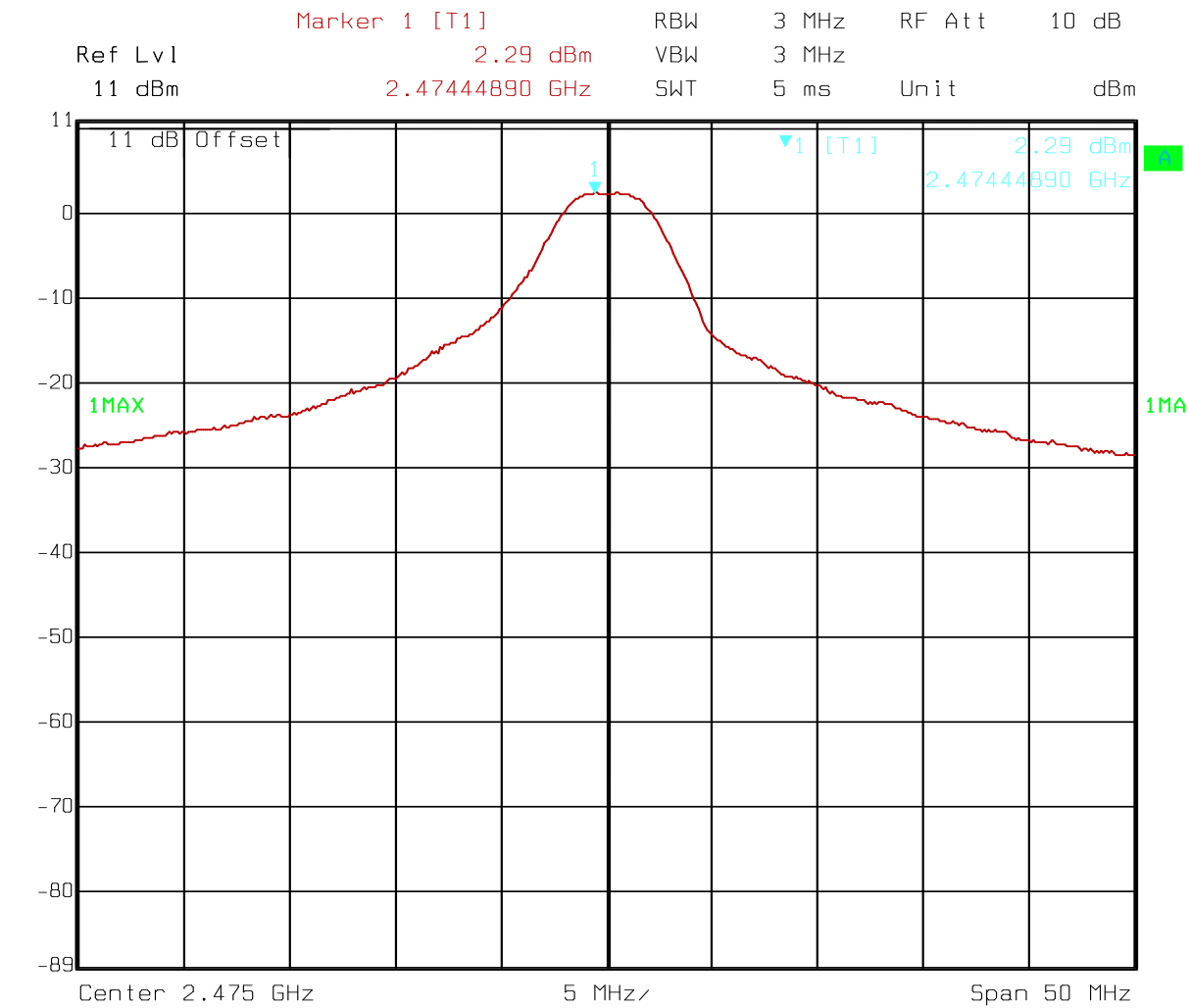
Date: 15.DEC.2010 14:51:59

Conducted power – ch0



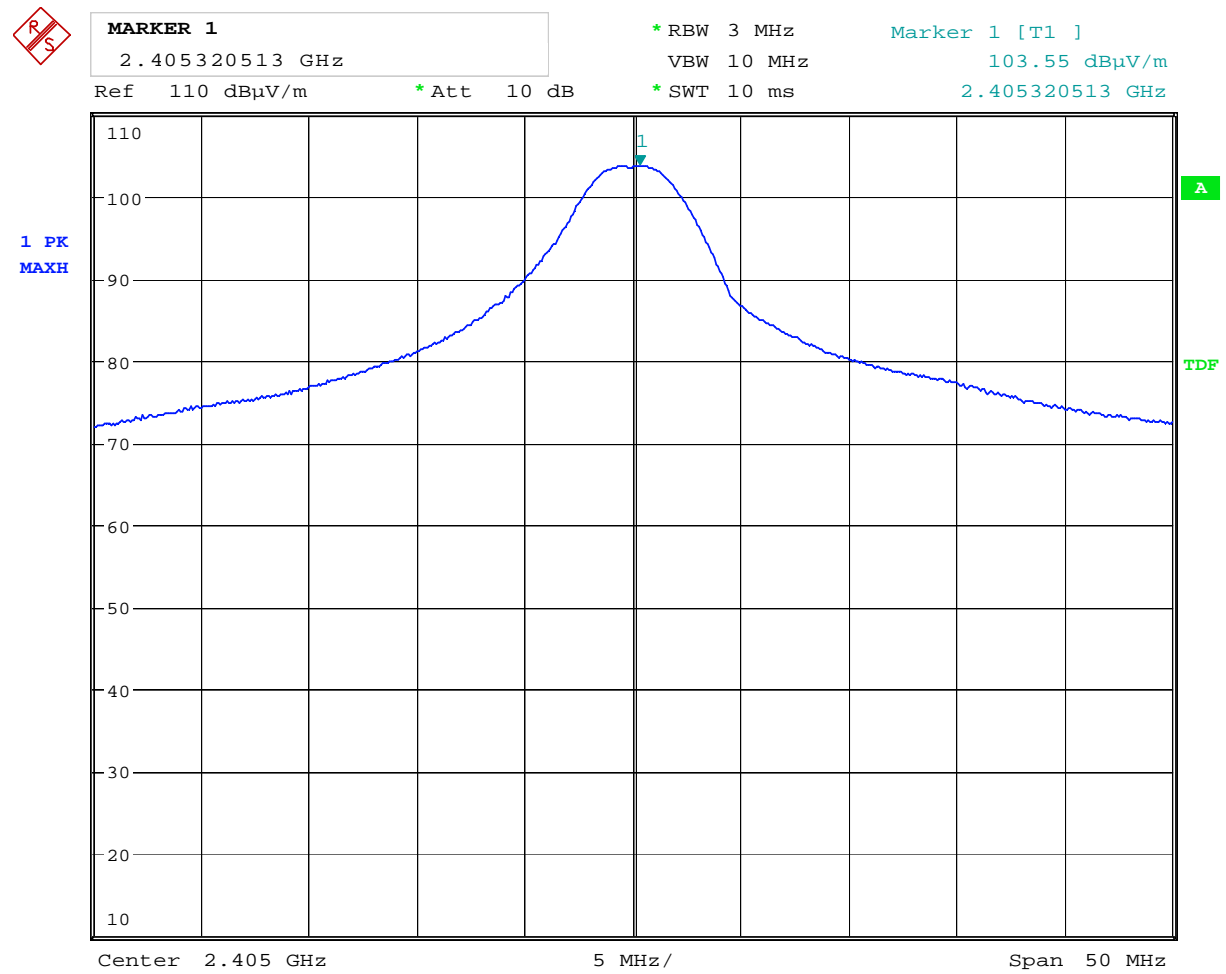
Date: 15.DEC.2010 14:54:13

Conducted power – ch 7



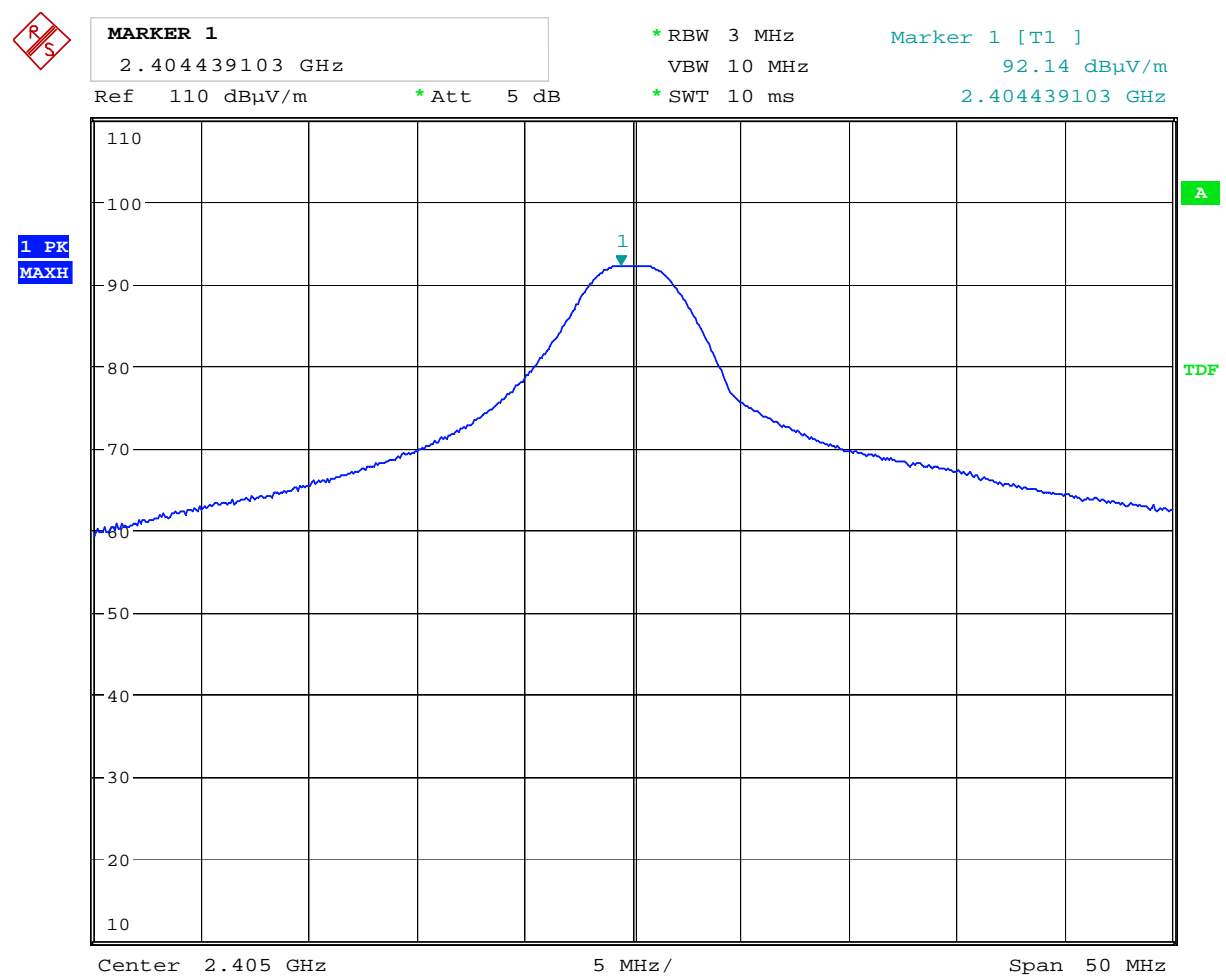
Date: 16.MAR.2012 15:15:40

Conducted power -ch14



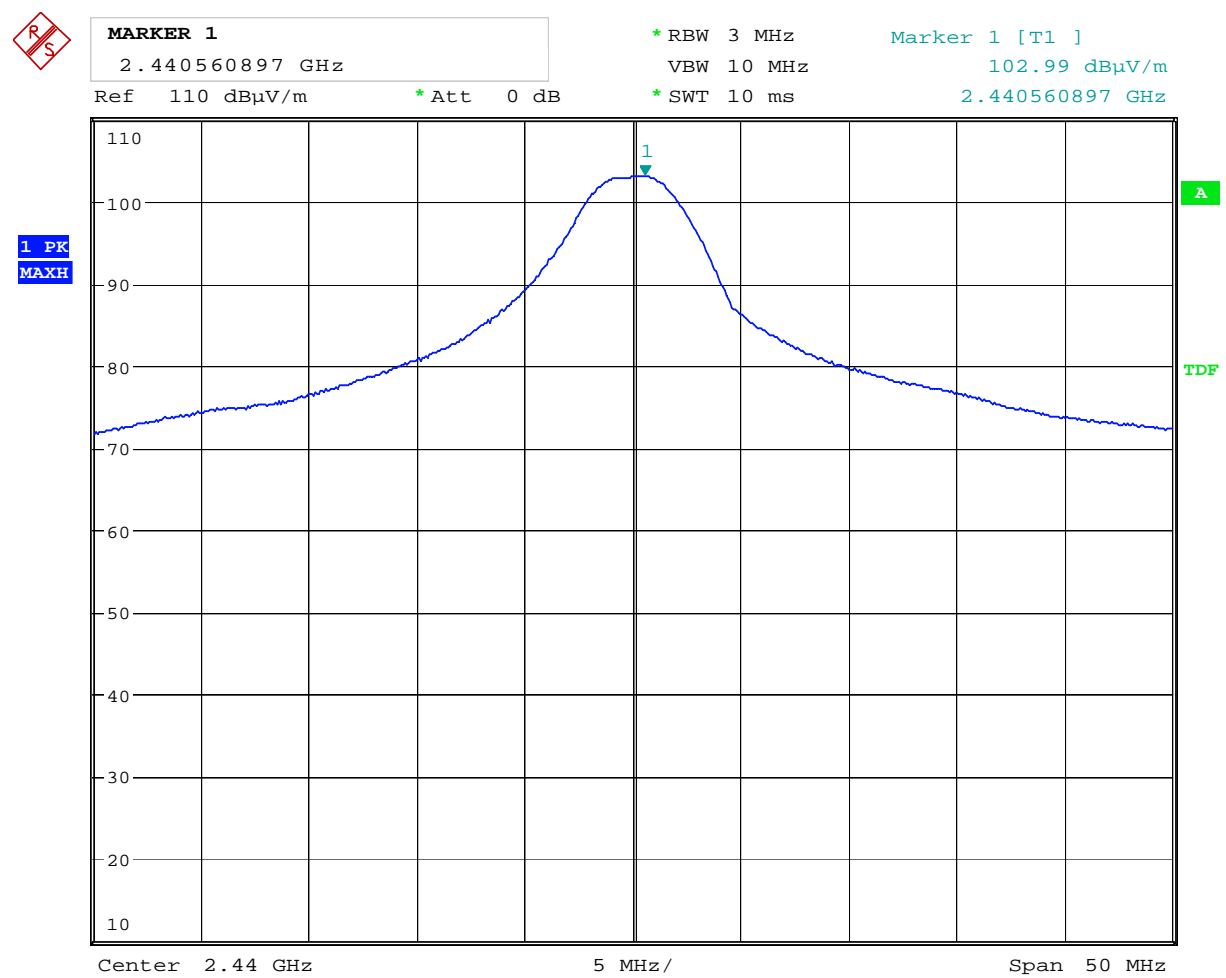
Date: 15.DEC.2010 10:27:59

HP: Ch0 – Field strength



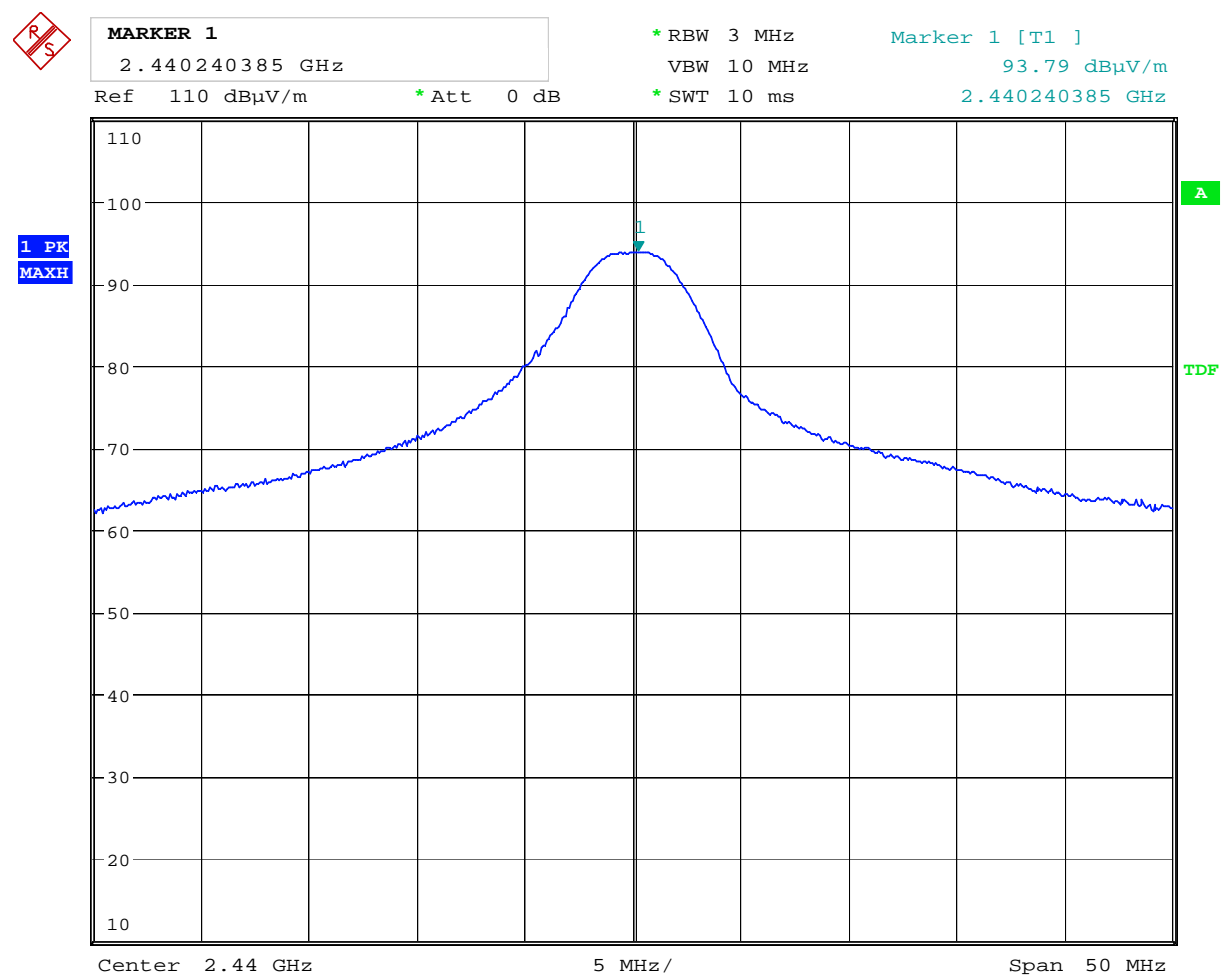
Date: 15.DEC.2010 10:39:47

VP: Ch0 – Field strength



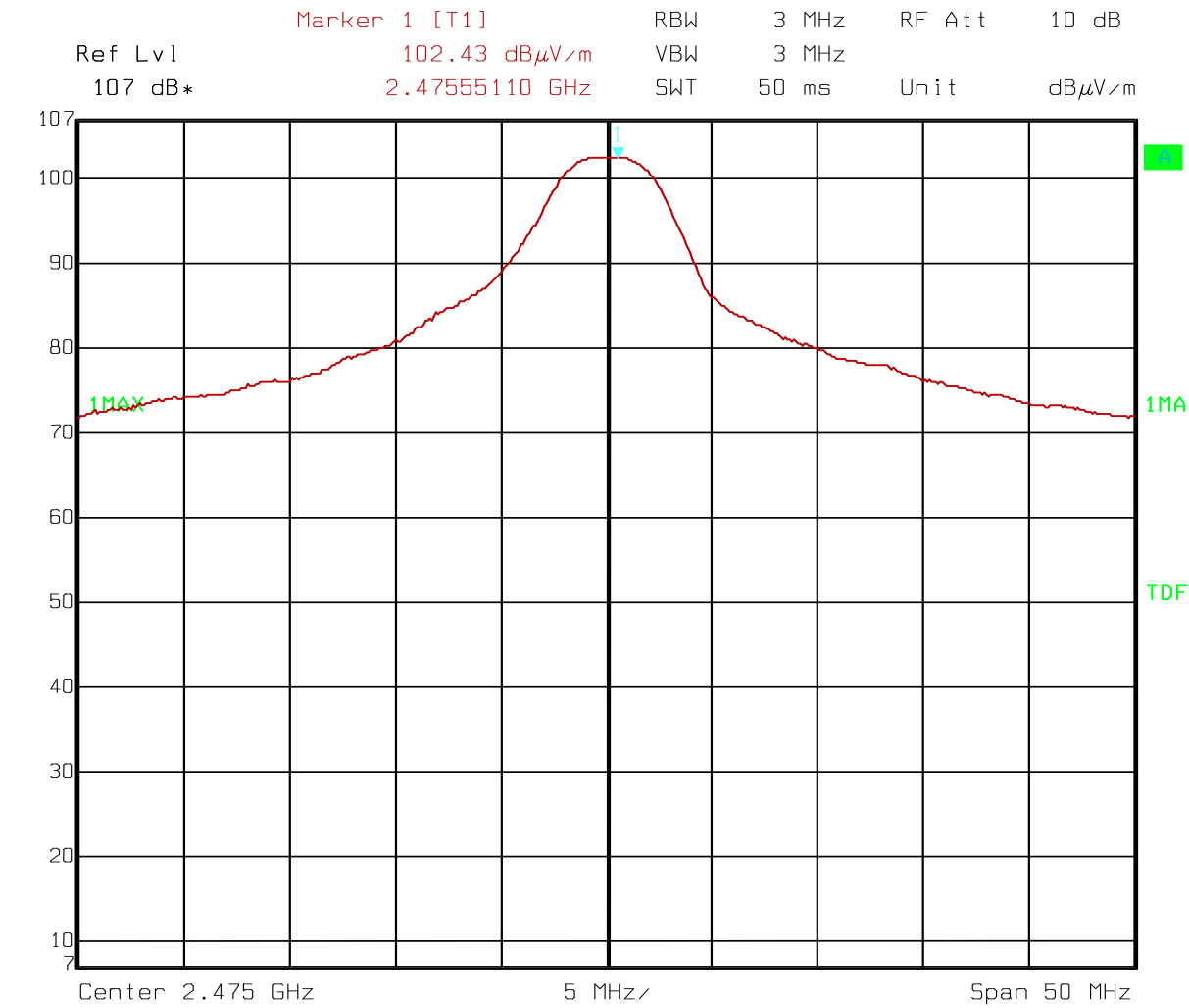
Date: 15.DEC.2010 11:03:07

HP: Ch7 – Field strength



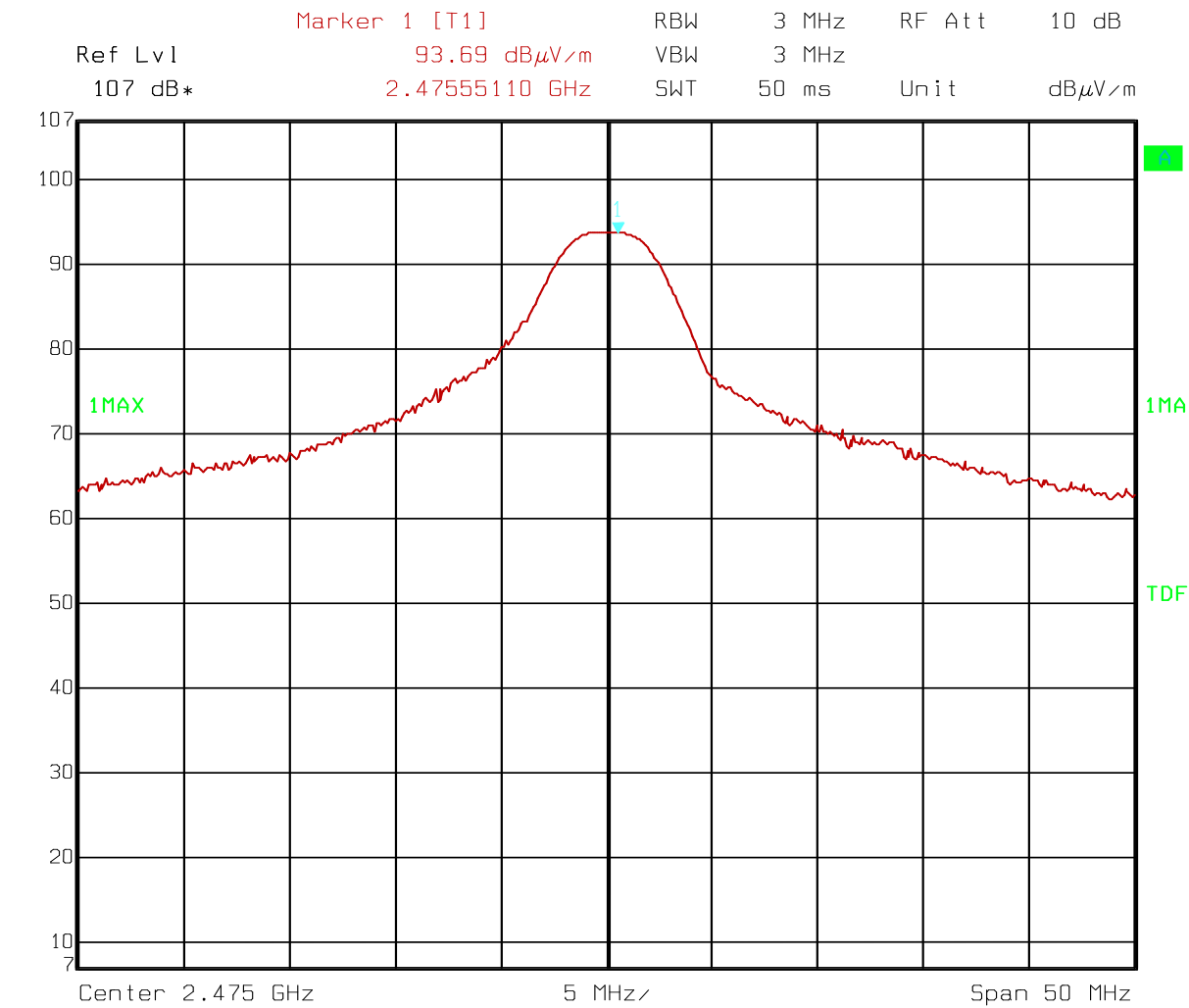
Date: 15.DEC.2010 11:04:50

VP: Ch7 – Field strength



Date: 16.MAR.2012 13:51:49

HP: Ch14 – Field strength



Date: 16.MAR.2012 13:45:25

VP: Ch14 – Field strength

4.4 Spurious Emissions (Radiated)

Para. No.: 15.247 (c)

Test Performed By: G.Suwanthakumar

Date of Test: 15.12.2010 and 16.03.2012

Test Results: Complies

Measurement Data:

Frequency	Field Strength at Band Edge	Detector	Limit	Margin
GHz	dB μ V/m		dB μ V/m	dB
2.39	52.1	Pk	74	21.9
2.4835	52.45	Pk	74	21.6

Band-edge field strength 2.4 GHz:

Marker Delta 100kHz RBW: 50.97dB

Peak Field Strength 103,05– 50.97 = 52.08 dB μ V/m

Band-edge field strength 2.4835 GHz:

Marker Delta 100kHz RBW: 49.6 dB

Peak Field Strength: 102.05– 49.6 = 52.45 dB μ V/m

* duty cycle correction=0

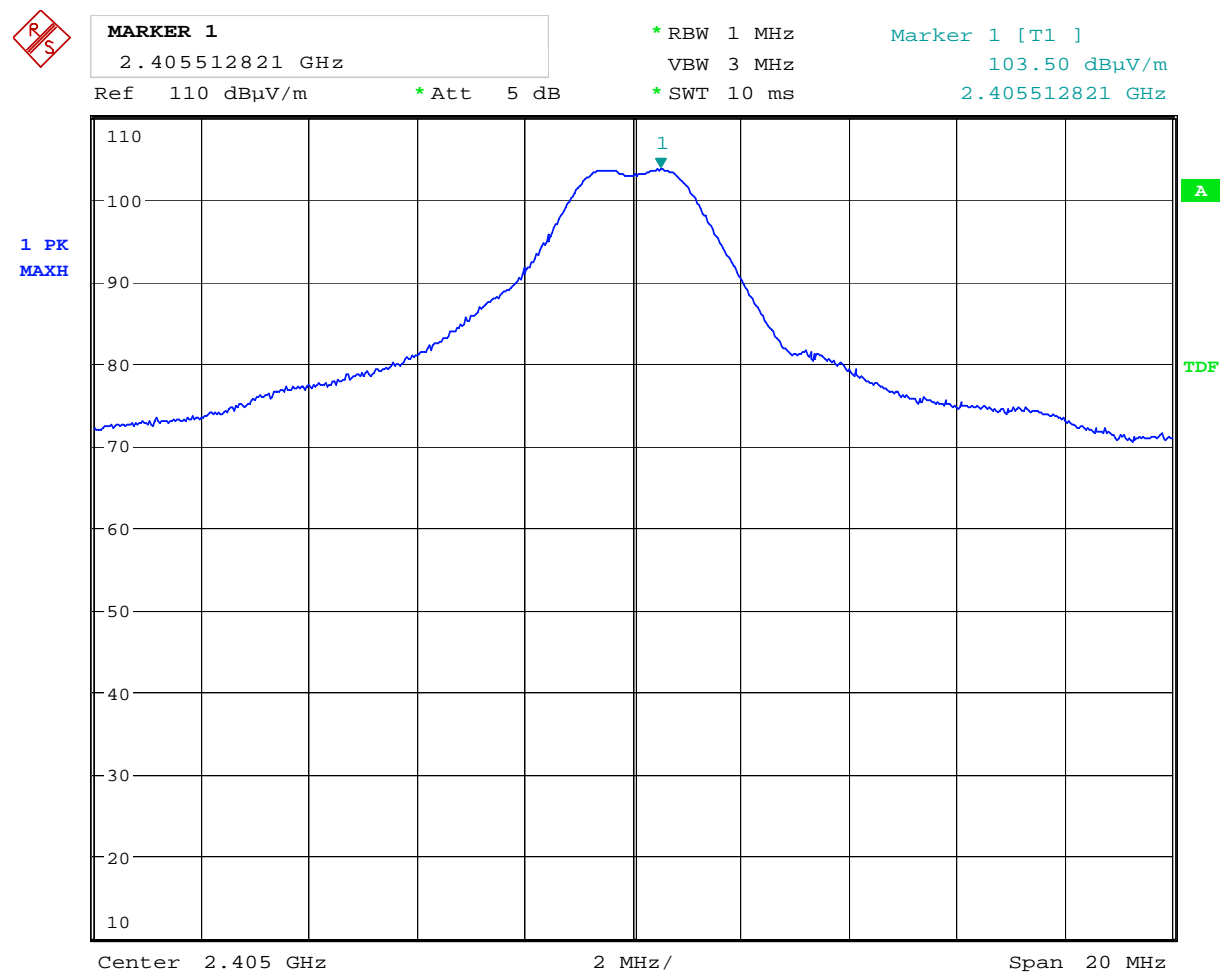
RF conducted emissions to 25 GHz

Maximum RF level outside operating band:

RF ch 0: 34,44 dBC, margin > 20 dB

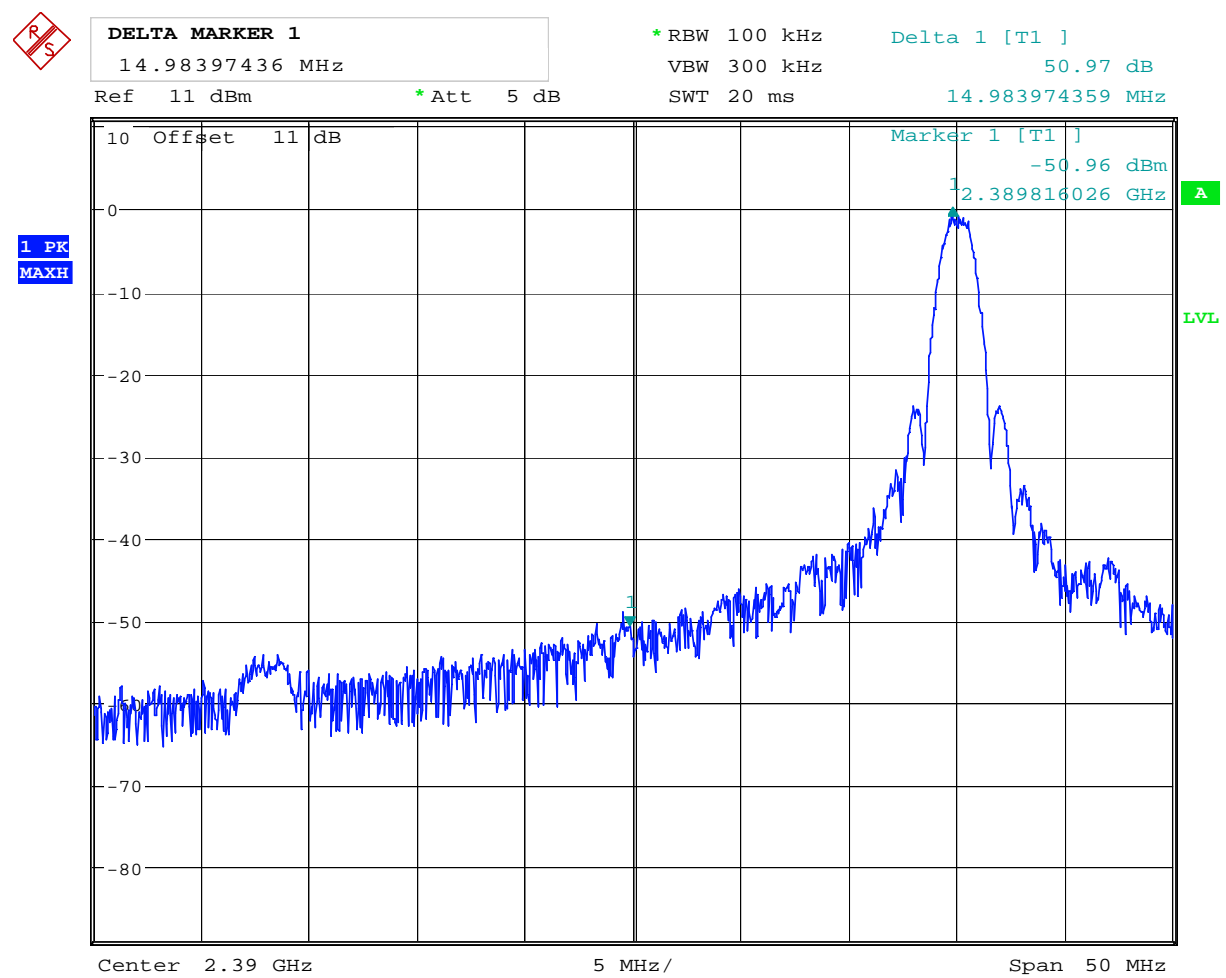
RF ch 7: 35,16 dBC, margin > 20 dB

RF ch 15: 37,91 dBC, margin > 20 dB



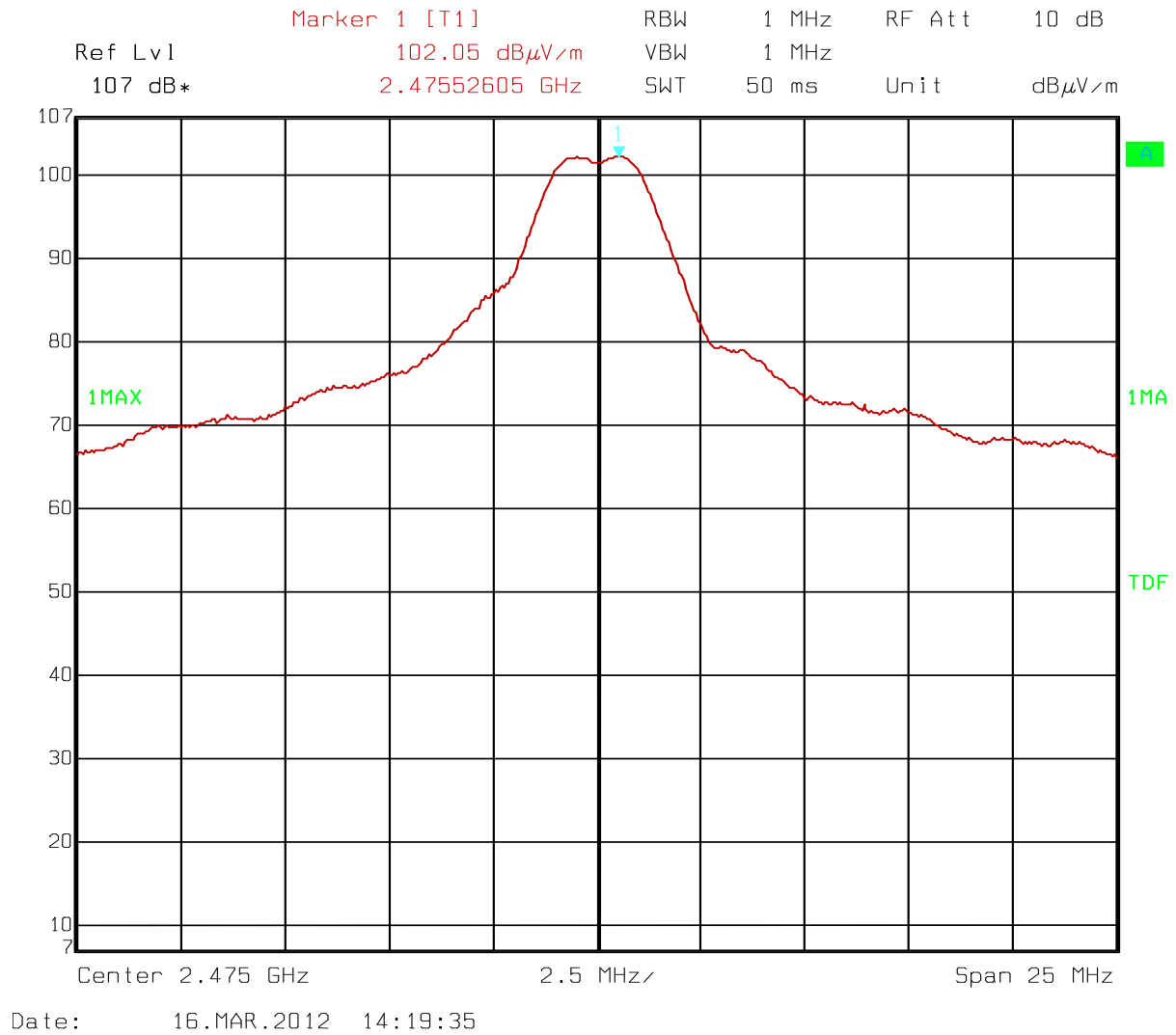
Date: 15.DEC.2010 10:32:16

Ch0- Lower channel power

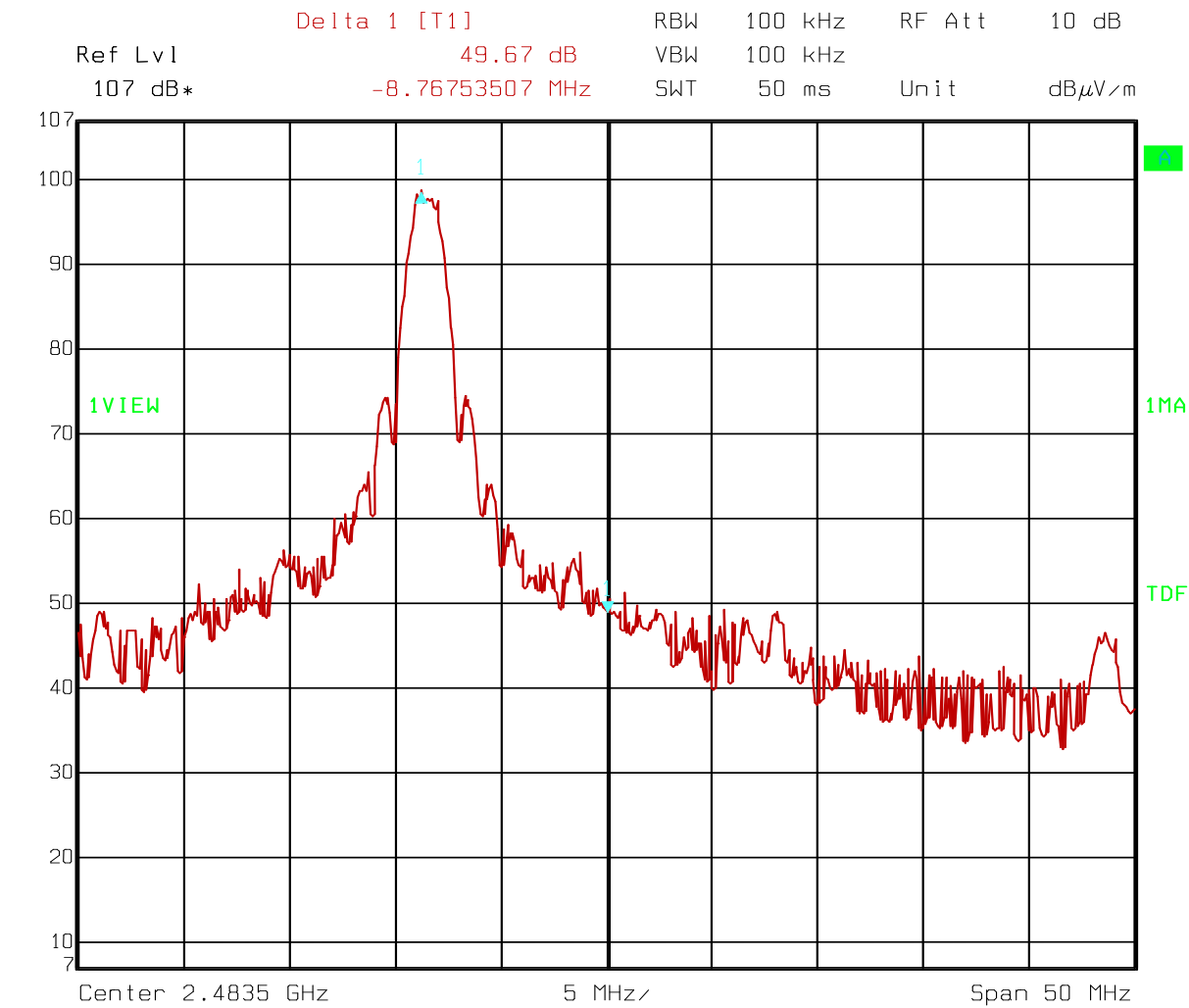


Date: 15.DEC.2010 14:39:42

Ch0 – Lower-band-edge – Delta-marker

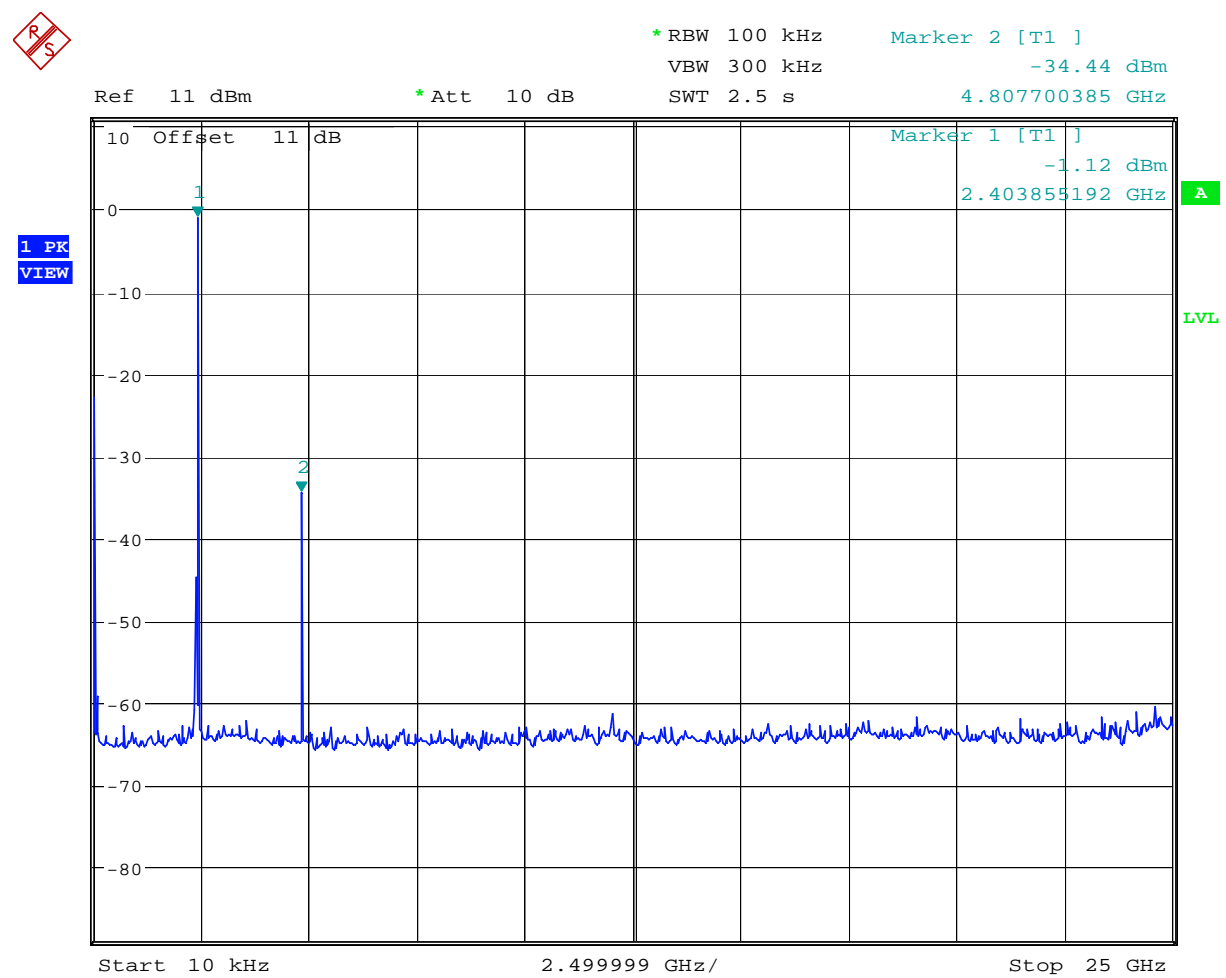


CH14 – upper channel power



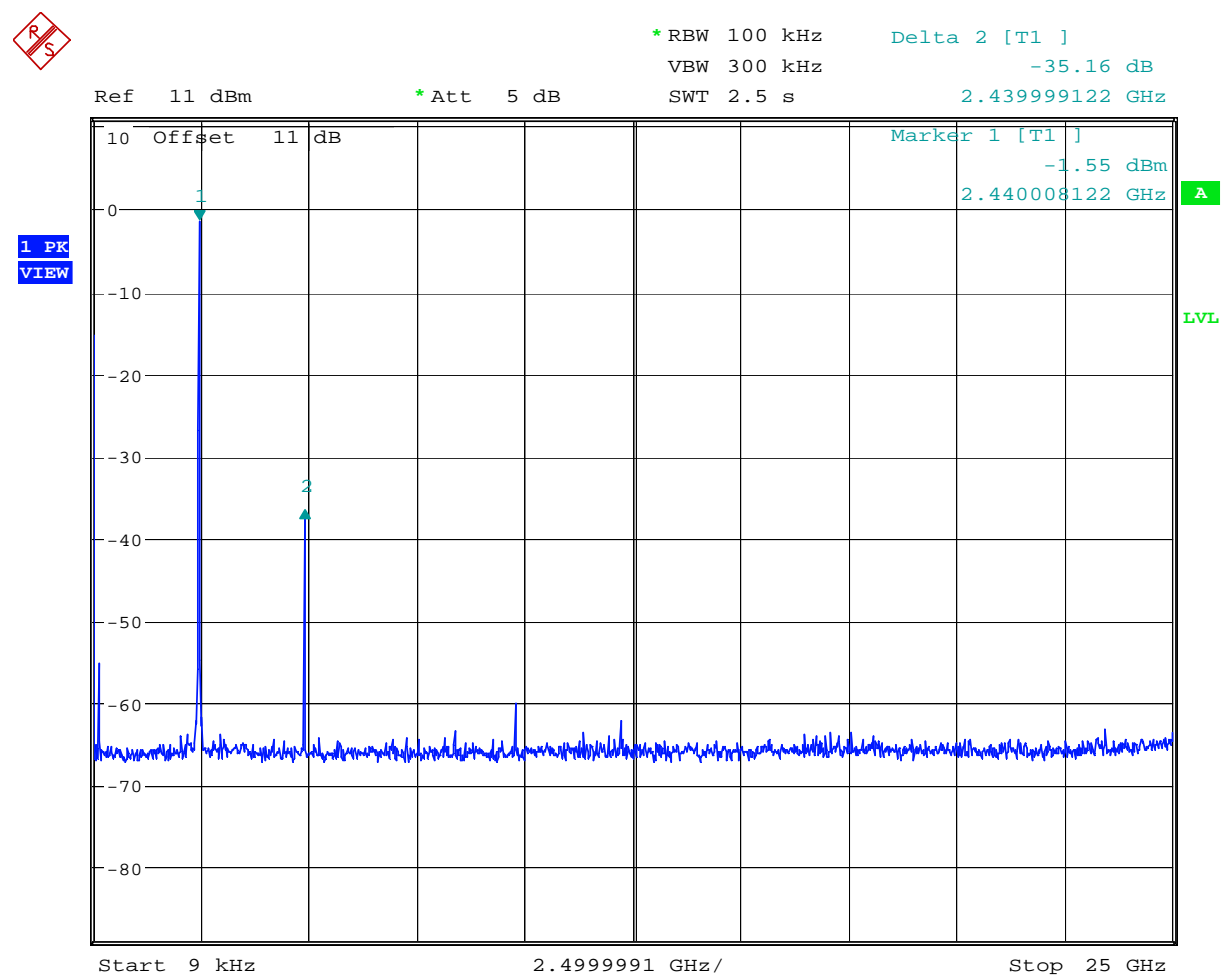
Date: 16.MAR.2012 14:17:50

Ch14 – Upper-band-edge – Delta-Marker



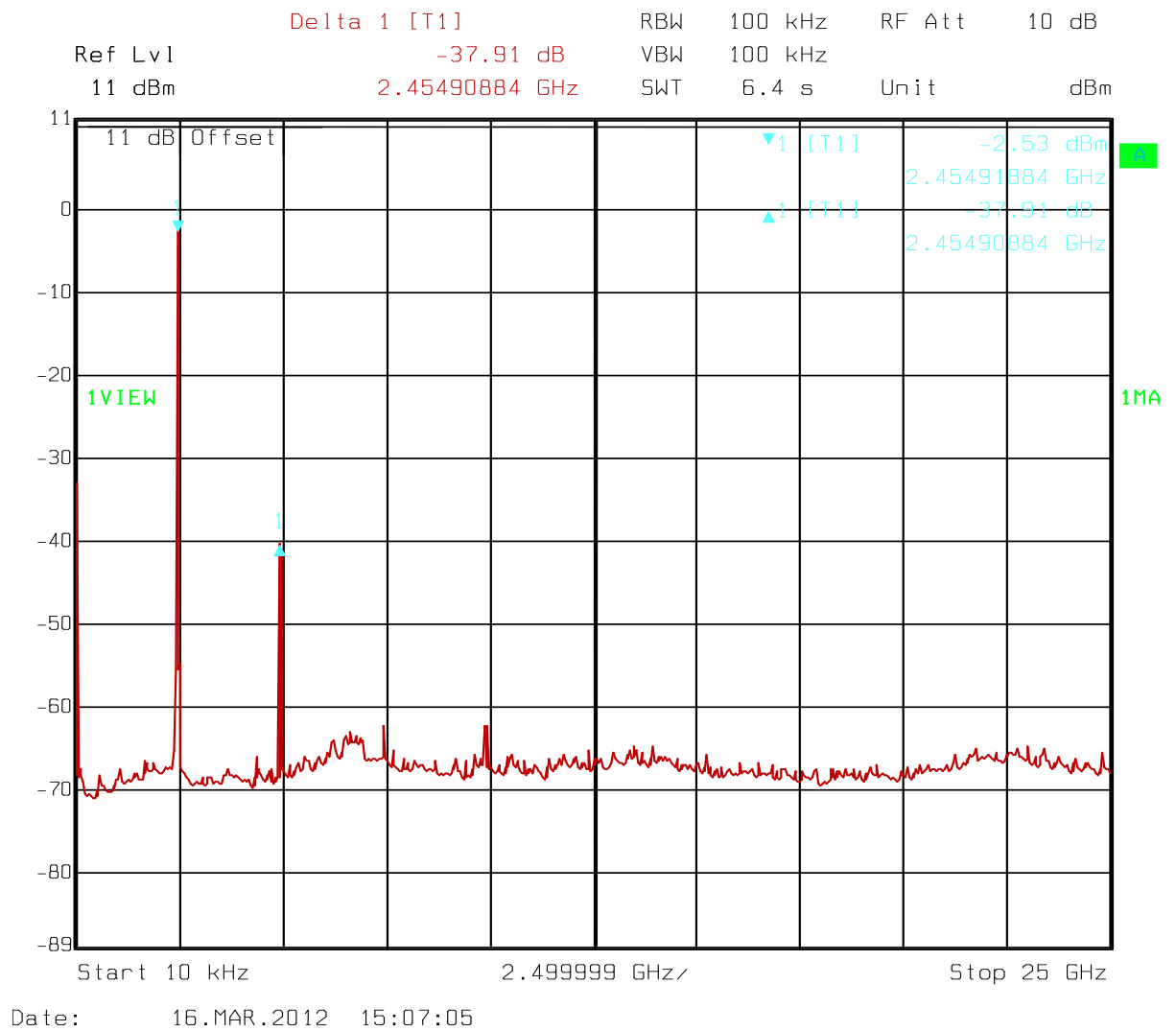
Date: 15.DEC.2010 14:03:06

Ch0 – Conducted Spurious – 9kHz – 25GHz



Date: 15.DEC.2010 14:44:27

Ch7 – Conducted Spurious – 9kHz – 25GHz



Duty Cycle Calculation:

RF duty cycle: Calculation according to RF burst Para 15.35 (c)

$$-20 \cdot \log(4.256/4.256) = 0\text{dB}$$

Maximum duty cycle according to Para 15.35 (b): 20 dB

This value is used to calculate Average field strength above 1 GHz from measured Peak value.

Manufacturer statement:

The MAC-frame is as follows:

Octets: 2	1	0/2	0/2/8	0/2	0/2/8	variable	2
Frame control	Sequence number	Destination PAN identifier	Destination address	Source PAN identifier	Source address	Frame payload	FCS
		Addressing fields					
MHR						MAC payload	MFR

Figure 34—General MAC frame format

This will give a frame size of 127 bytes (payload 102 bytes of those) + the MAC overhead of six bytes => 133 bytes maximum.

With an effective transfer rate of 250kbit this equals a total transmission time of $133 \times 8 / 250\text{k} = 4.256\text{ms}$. This equals 4.256% duty-cycle for a 100ms window.

This module will transmit very seldom and never use the full payload, the effective duty-cycle will be much less.

Radiated Emissions with antenna, 1-25 GHz, peak

1-18 GHz measured at a distance of 3m, 18-25 GHz measured at 1m.

Measured with Peak Detector

Frequency	RF channel	Dist. corr. factor	Field strength, Peak, 3m	Duty cycle corr. factor	Limit	Margin
GHz	0-14	dB	dBμV/m	dB	dBμV/m	dB
4.811	0	0	50.29	-	74	23.71
4.881	7	0	50.11	-	74	23.89
4.950	14	0	48.42	-	74	25.58
7.213	0	0	49.97	-	74	24.03
7.320	7	0	50.24	-	74	23.76
7.425	14	0	49.61	-	74	24.39
8 - 25	0,7,14	0	None detected	-	-	-

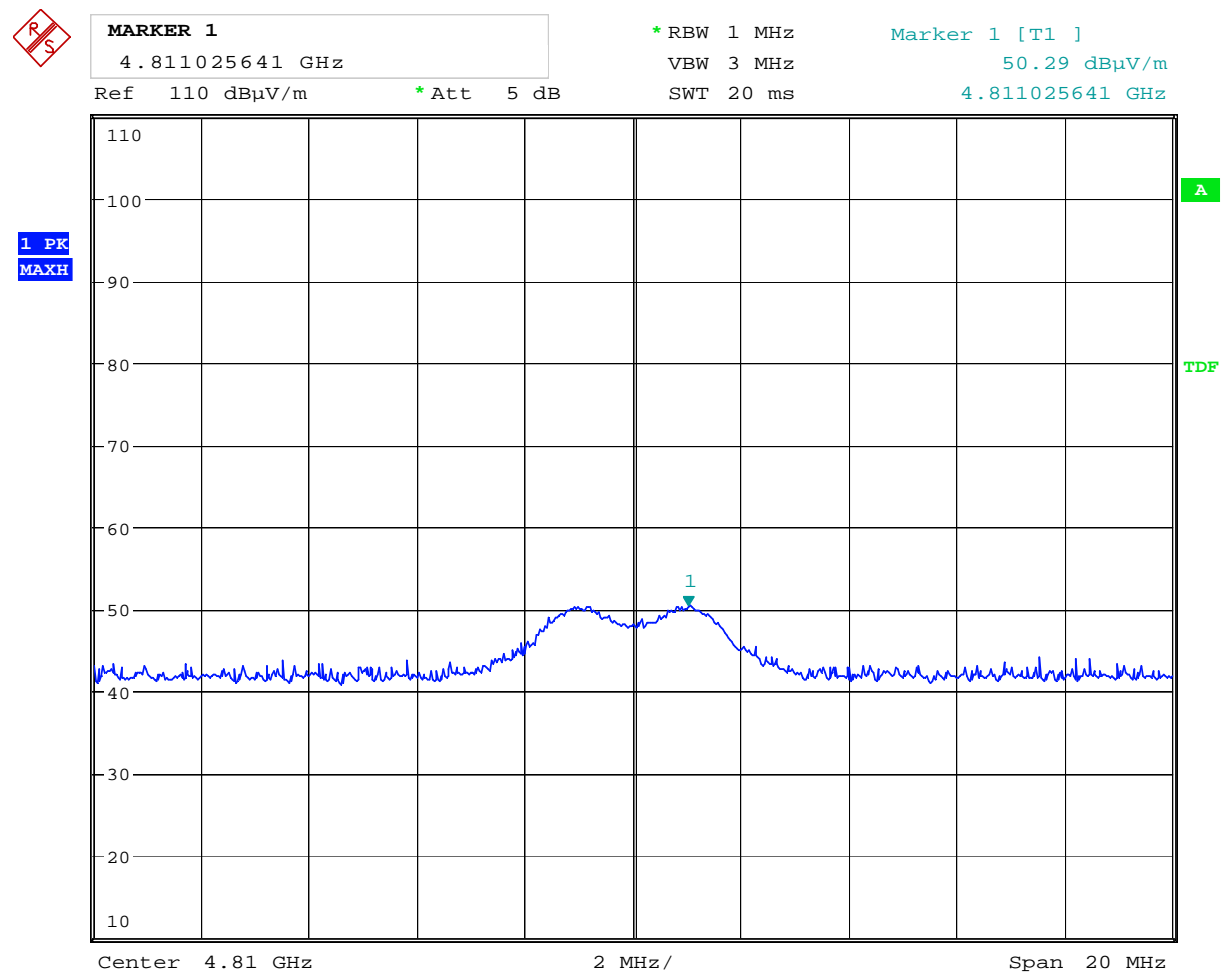
Radiated emissions with antenna, 1- 25 GHz, Average
Calculated value from Peak Detector

Frequency	RF channel	Dist. corr. factor	Field strength, Peak, 3 meters	Duty Cycle correction factor	Limit	Margin
GHz	0-14	dB	dBμV/m	dB	dBμV/m	dB
4.809	0	0	50.29	0	54	3.71
4.889	7	0	50.11	0	54	3.89
4.950	14	0	48.42	0	54	5.58
7.213	0	0	49.97	0	54	4.03
7.320	7	0	50.24	0	54	3.76
7.425	14	0	49.61	0	54	4.39
8 - 25	0,7,14	0	None detected	-	-	-

The maximum is observed in vertical polarization

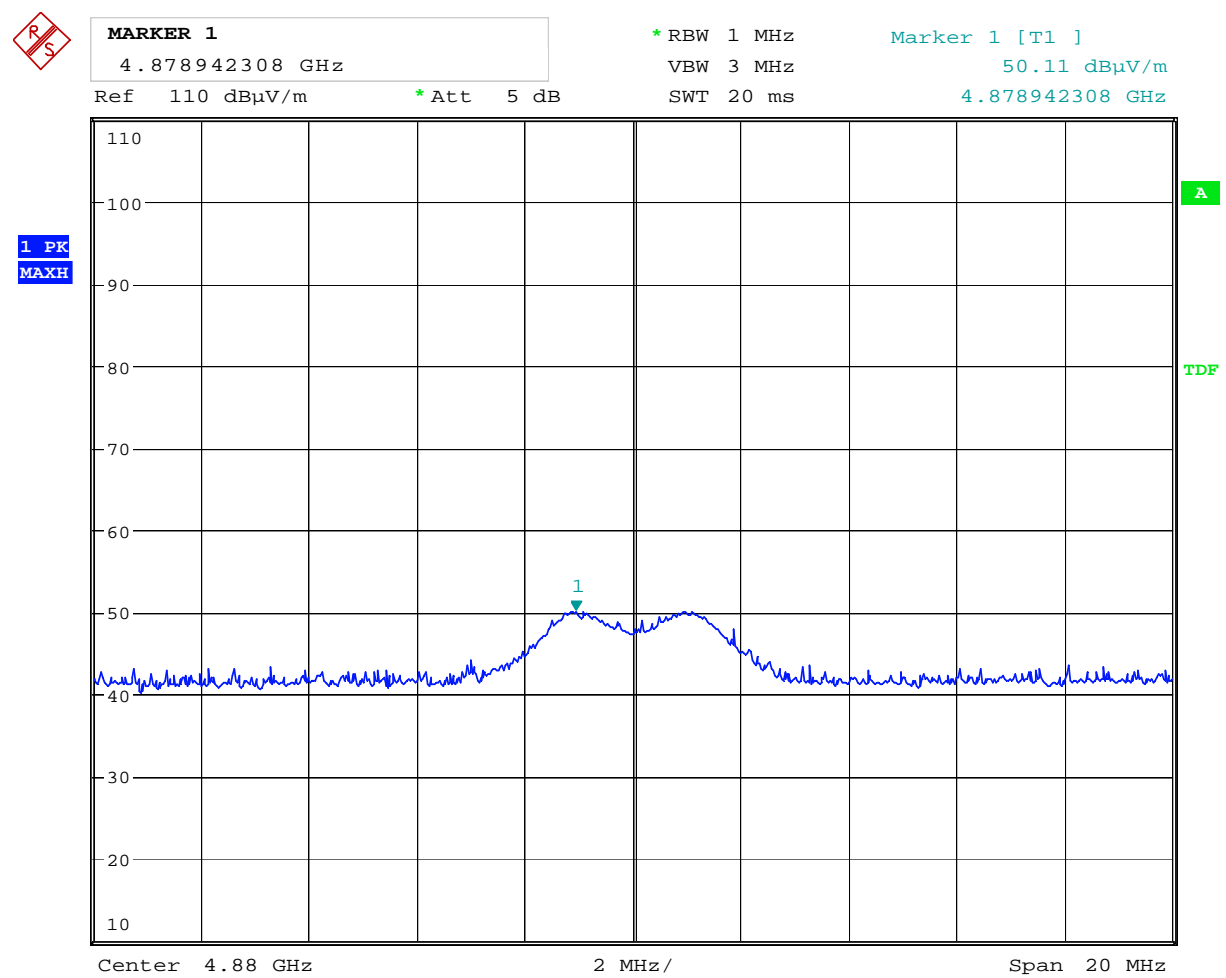
Antenna factor, amplifier gain and cable loss are included in spectrum analyzer "Transducer factor".

Also radiated spurious emissions are checked with 50 ohm load and no spurious emissions detected.



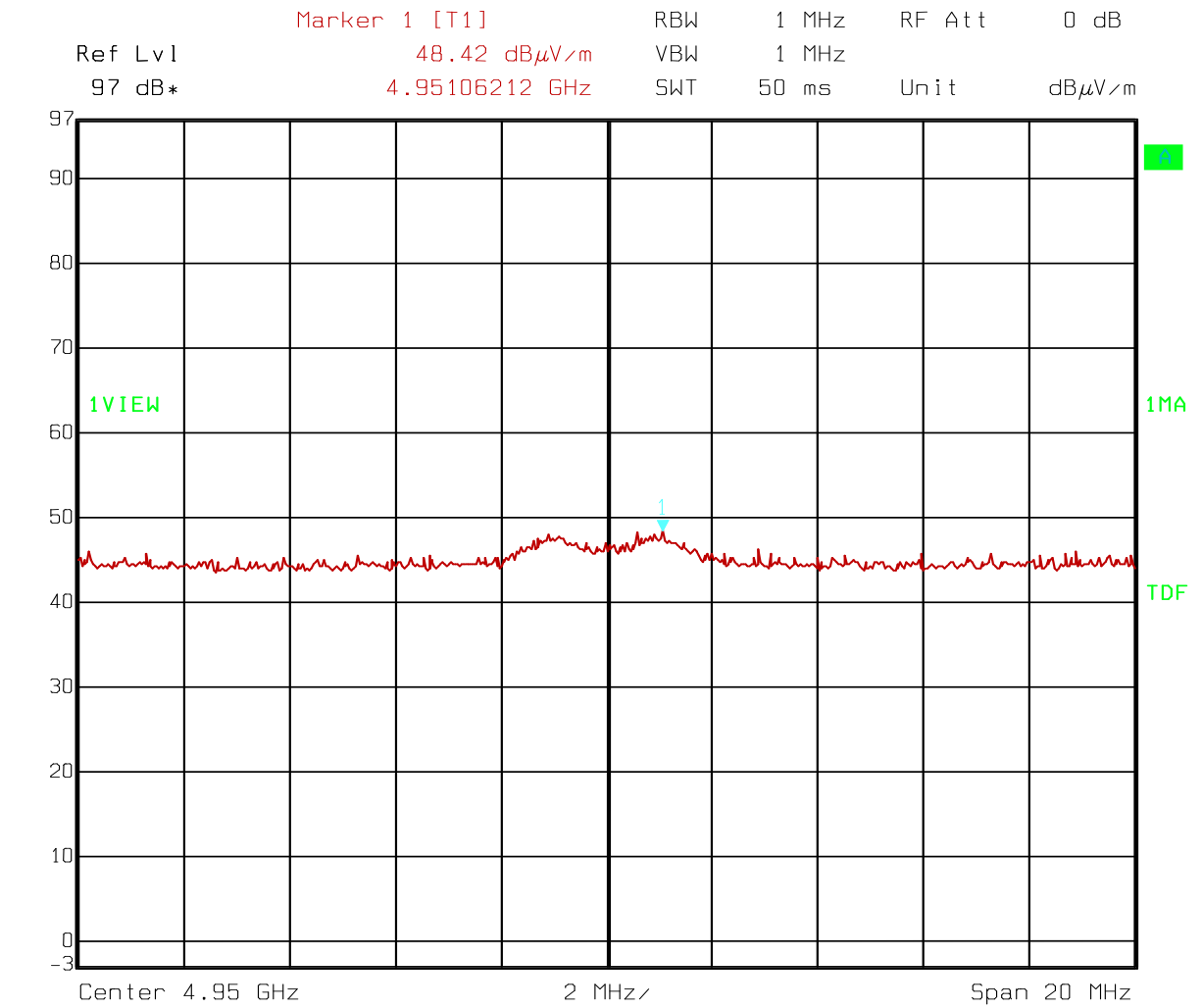
Date: 15.DEC.2010 12:56:38

Ch0 – 2nd harmonic



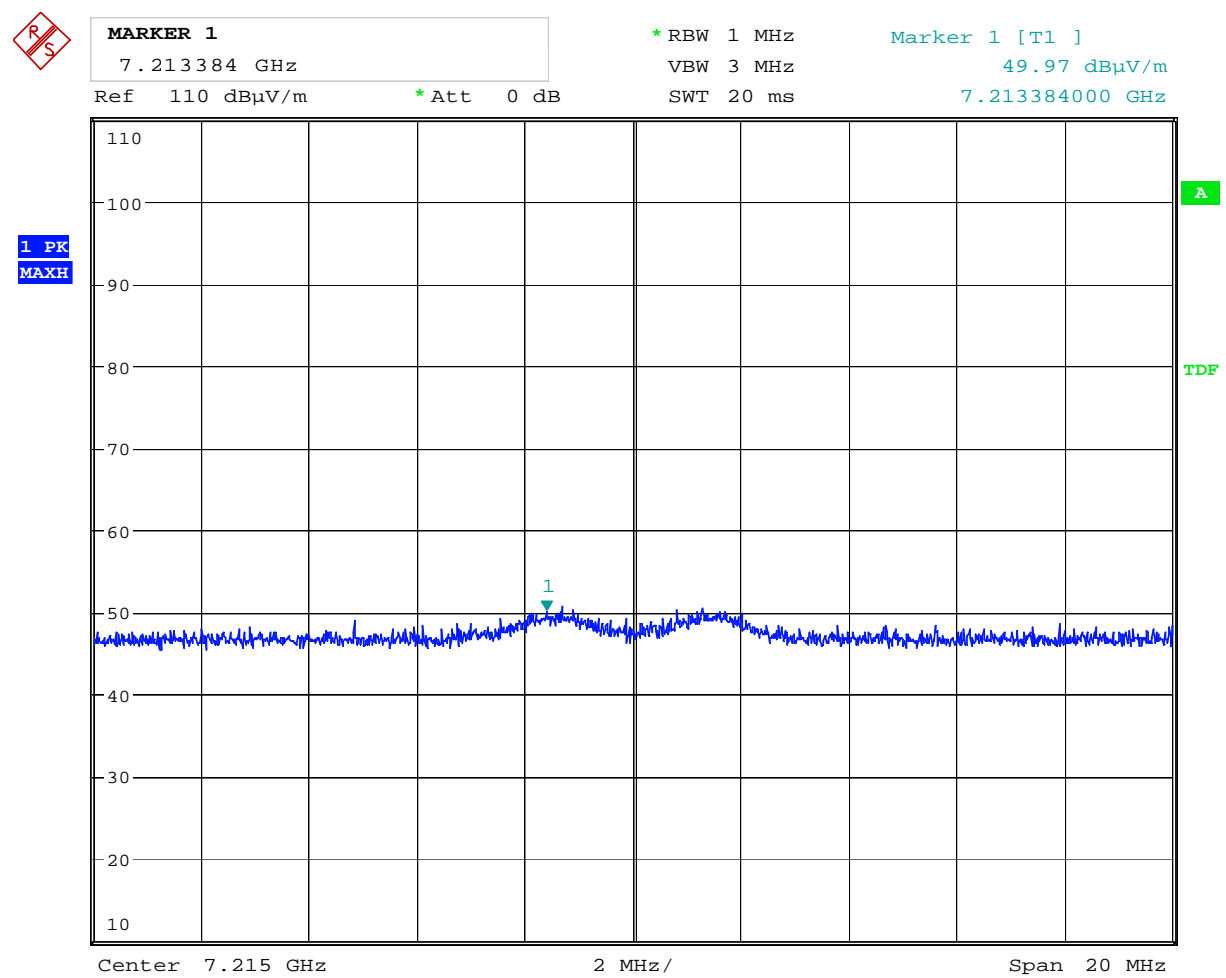
Date: 15.DEC.2010 12:51:14

Ch7 – 2nd Harmonic



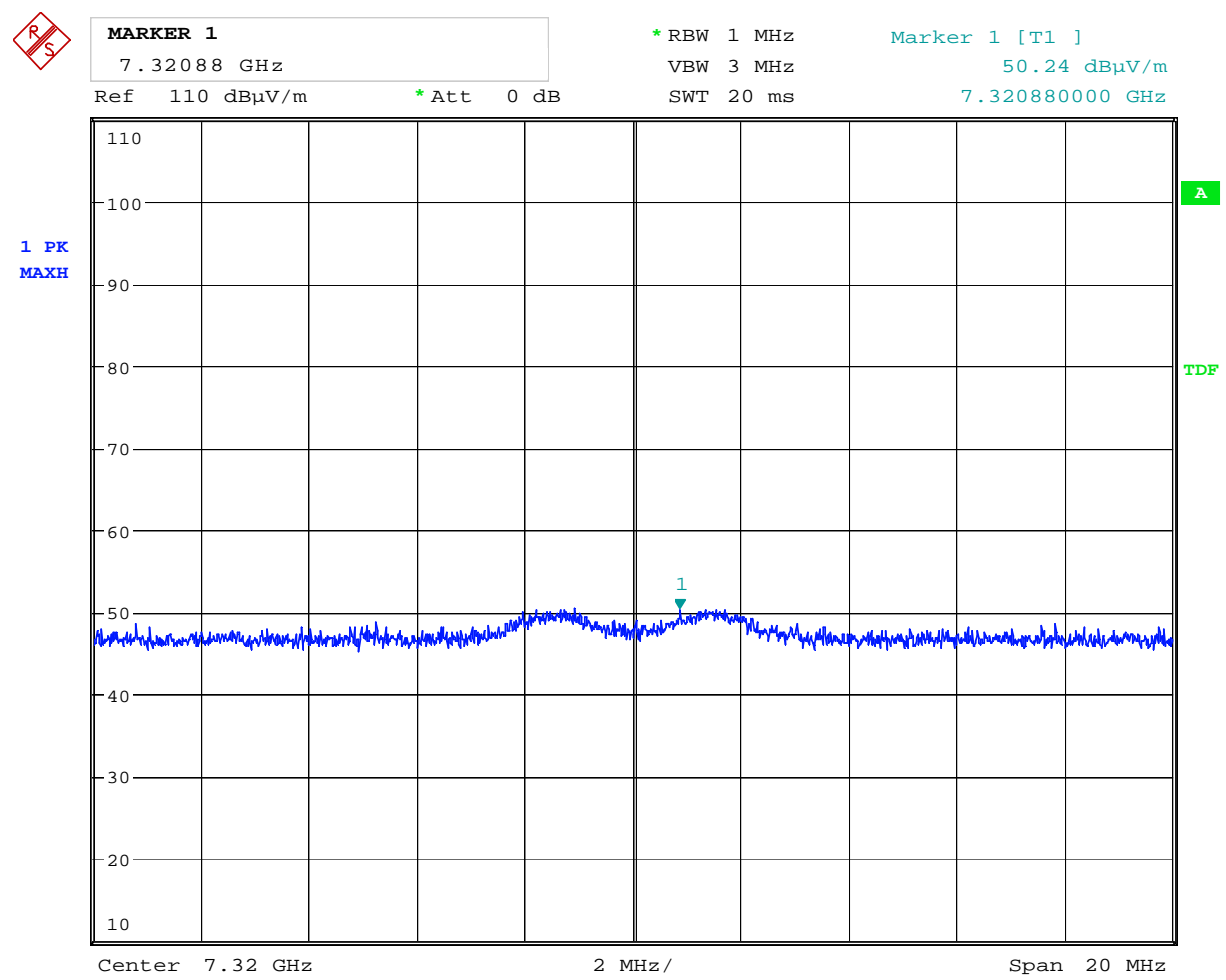
Date: 16.MAR.2012 14:41:11

Ch14 – 2nd Harmonic



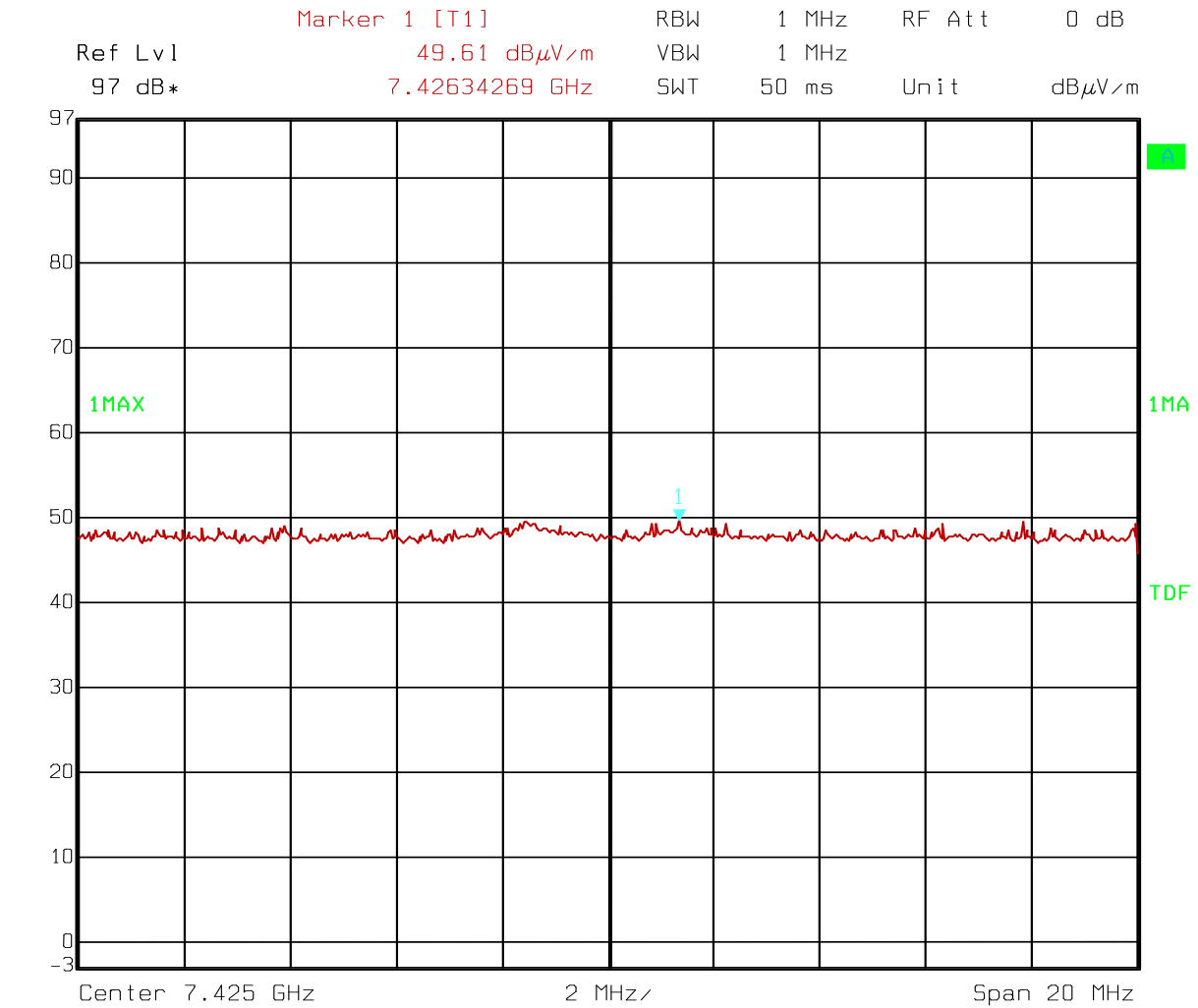
Date: 15.DEC.2010 13:04:19

Ch0 3rd harmonic



Date: 15.DEC.2010 13:10:39

Ch7 3rd harmonic



Date: 16.MAR.2012 14:44:42

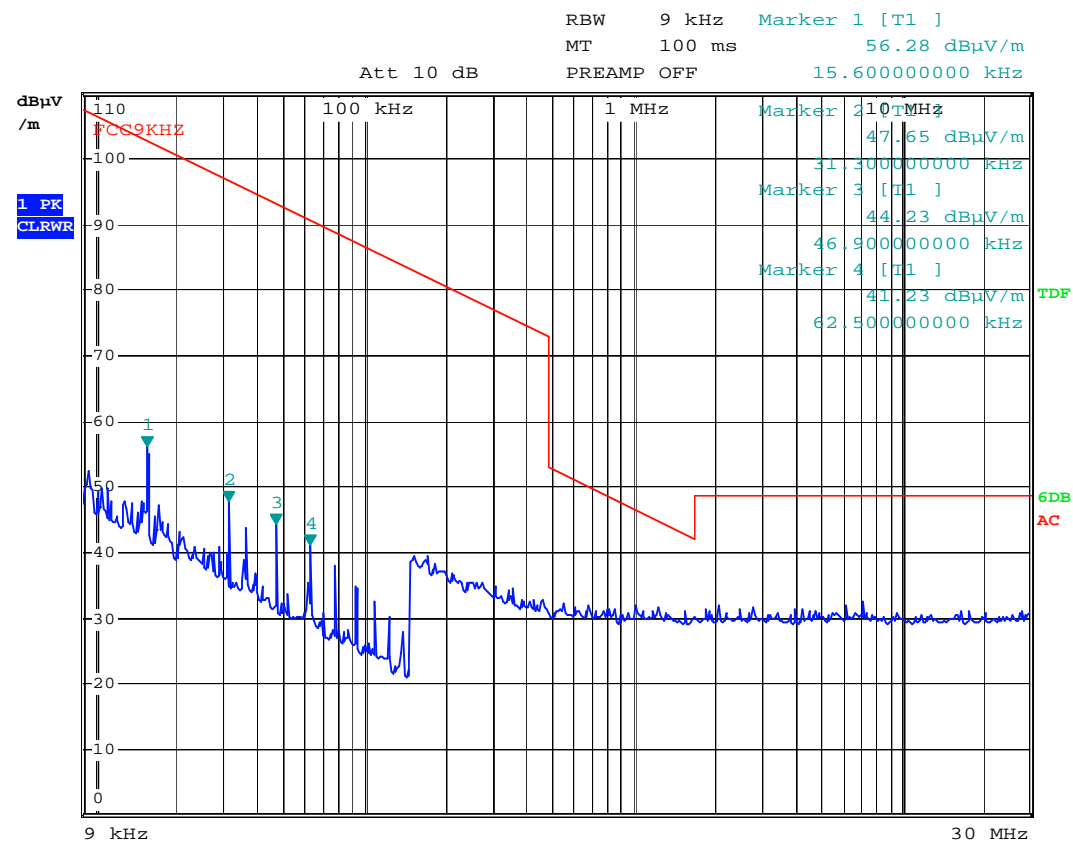
Ch14 3rd harmonic

Radiated emissions 30 – 1000 MHz.

Detector: Quasi-Peak

Measuring distance 3 m.

Frequency	Operational condition	Field strength	Measuring distance	Polarization	Limit FCC15.209	Margin
MHz		dB μ V/m	m	-	dB μ V/m	dB
49.32	TX ON	16.86	3	VP	40	23.14
160	TX ON	24.30	3	VP	43	18.70
207	TX ON	19.54	3	HP	46	26.46



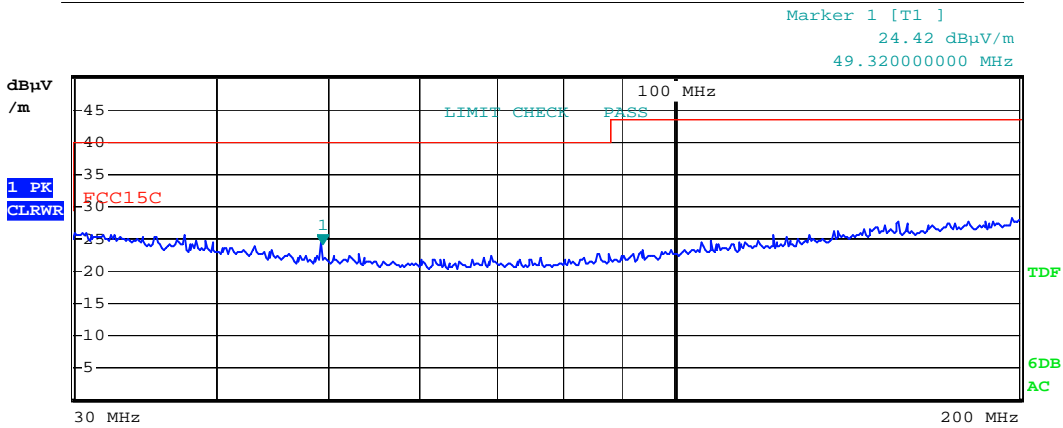
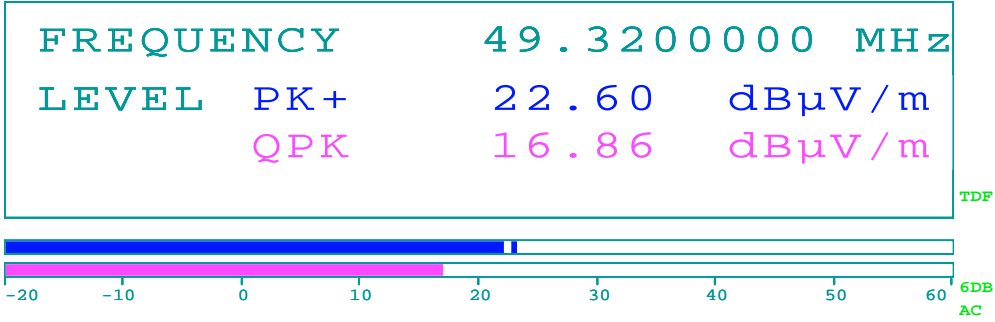
Date: 15.DEC.2010 13:07:36

9kHz – 30MHz

Controlled by EMC32

Att 10 dB

RBW 120 kHz
MT 100 ms
PREAMP ON



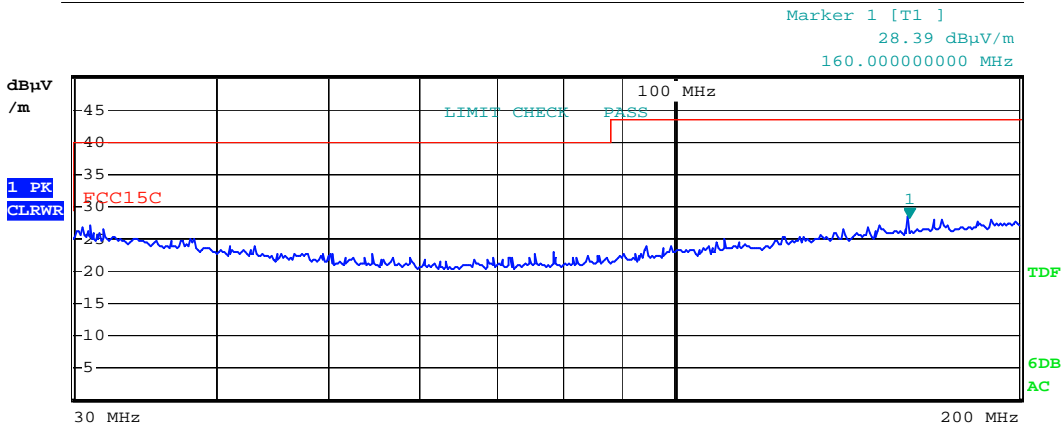
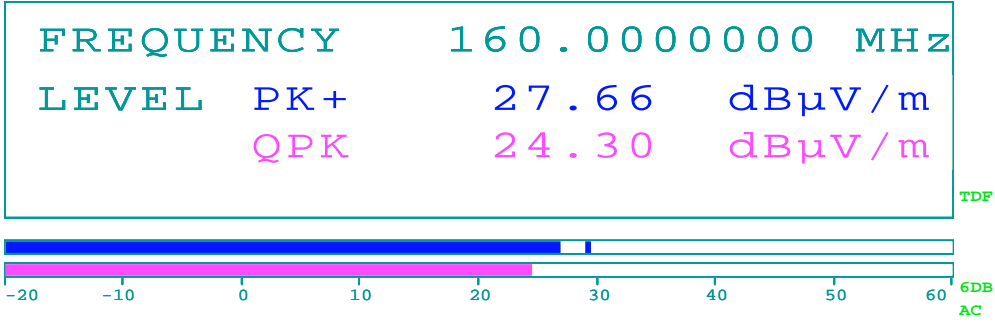
Date: 15.DEC.2010 08:46:37

VP – 30 – 200 MHz

Controlled by EMC32

Att 10 dB

RBW 120 kHz
MT 100 ms
PREAMP ON



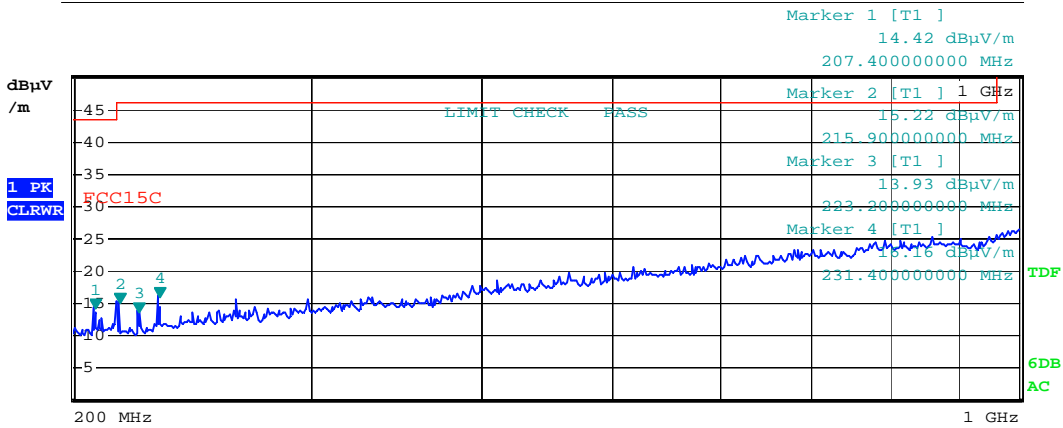
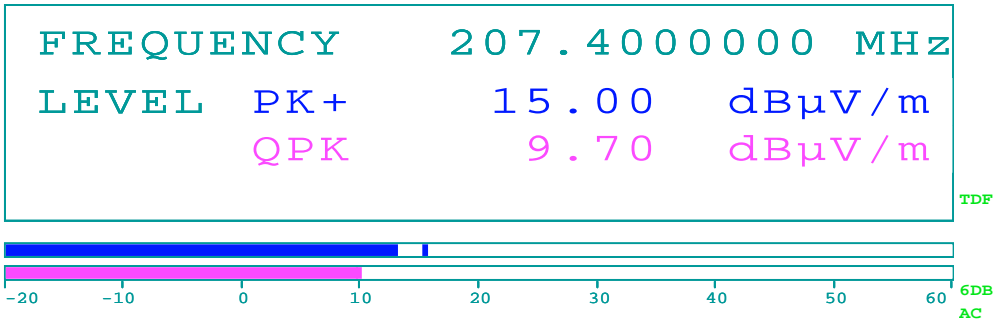
Date: 15.DEC.2010 08:41:48

HP – 30 – 200MHz

Controlled by EMC32

RBW 120 kHz
MT 100 ms
PREAMP ON

Att 10 dB



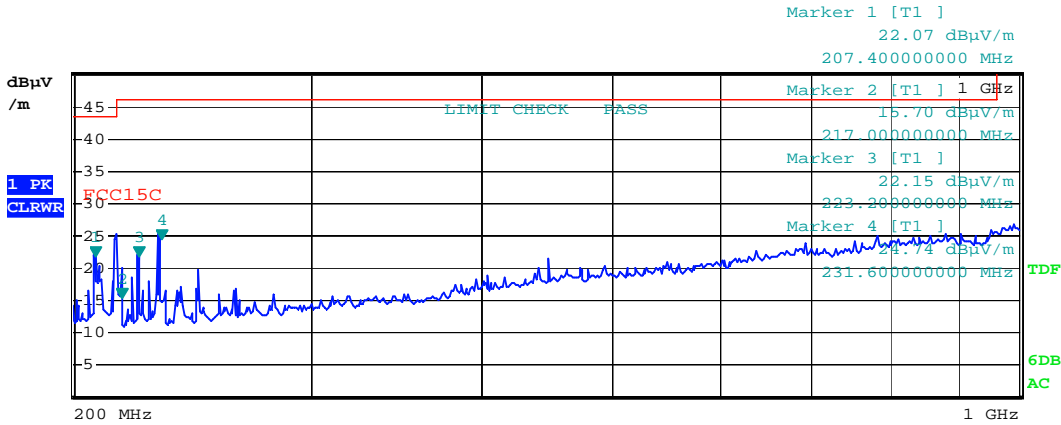
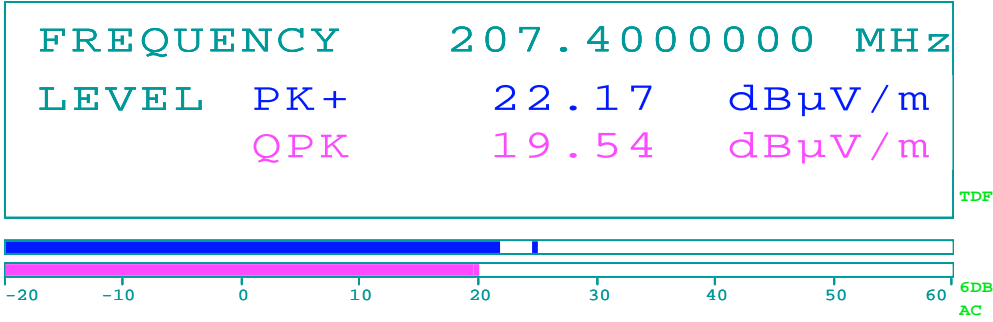
Date: 15.DEC.2010 08:55:45

VP – 200 – 1000GHz

Controlled by EMC32

Att 10 dB

RBW 120 kHz
MT 100 ms
PREAMP ON



Date: 15.DEC.2010 09:04:05

HP 200 – 1000MHz

4.5 Receiver Spurious Emissions (radiated)

Para. No.: RSS-Gen (6)

Test Performed By: G.Suwanthakumar

Date of Test: 15.03.2011 and 16.03.2012

Test Results: Complies

Radiated Emissions with antenna, 30MHz - 25 GHz, peak

30 - 1000MHz measured at 10m, 1-25 GHz measured at 1m (only pre-view).

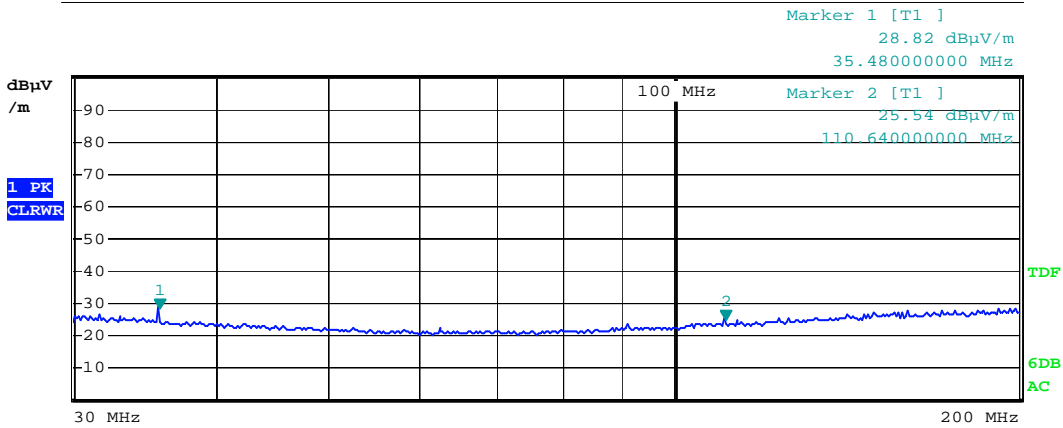
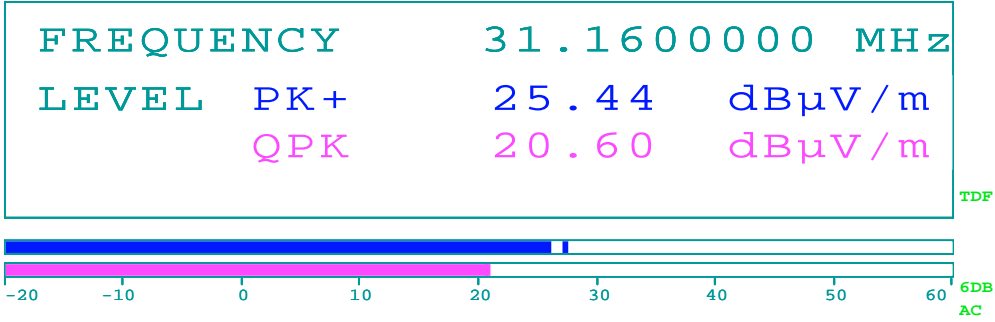
Measured with Peak Detector

Frequency	RF channel	Dist. corr. factor	Field strength, Peak, 3m	Duty cycle corr. factor	Limit	Margin
GHz	0-15	dB	dB μ V/m	dB	dB μ V/m	dB
0.030 – 0.088	7	0	< 30	-	40	> 10
0.088 – 0.216	7	0	< 30	-	43	> 10
0.216 – 0.960	7	0	< 30	-	46	> 16
0.960 - 25	7	0	None detected	-	54	-

Controlled by EMC32

Att 10 dB

RBW 120 kHz
MT 100 ms
PREAMP ON



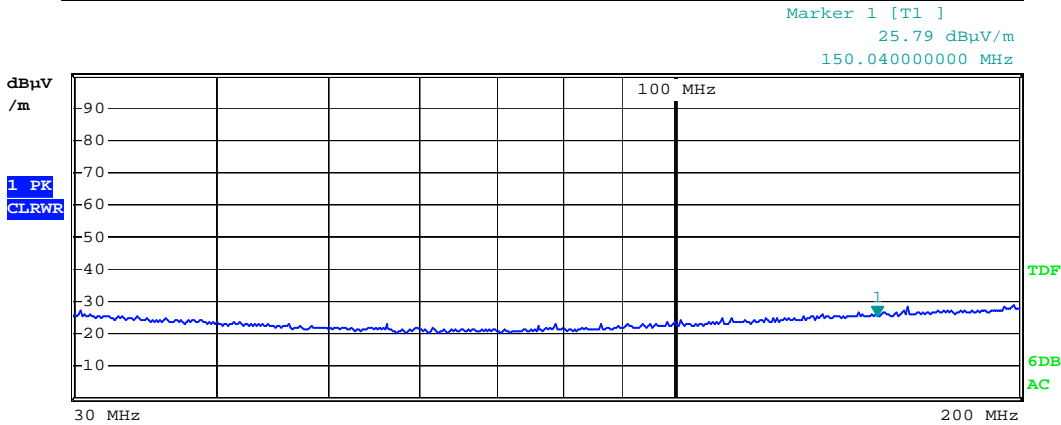
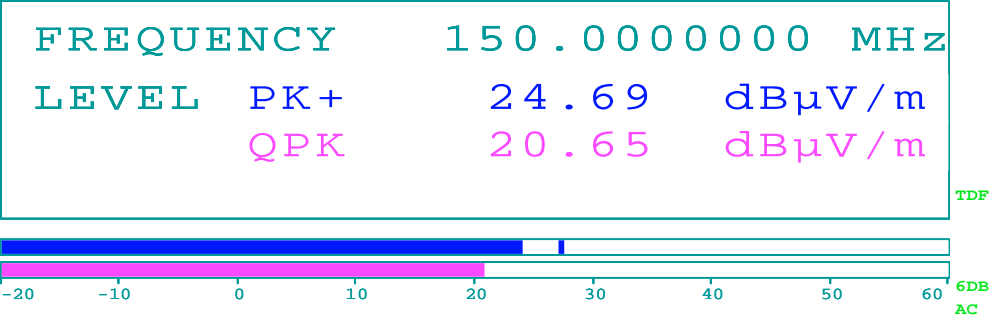
Date: 15.DEC.2010 08:33:31

RX: HP- 30 - 200MHz

Controlled by EMC32

Att 10 dB

RBW 120 kHz
MT 100 ms
PREAMP ON



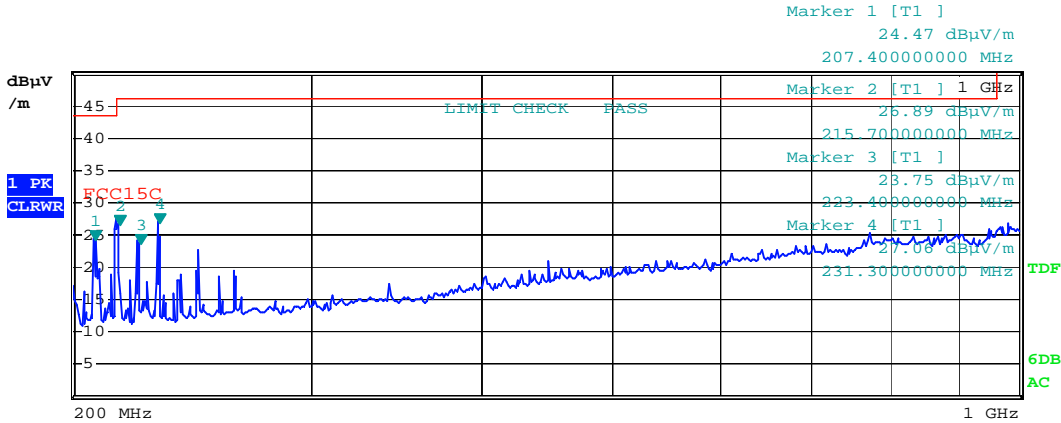
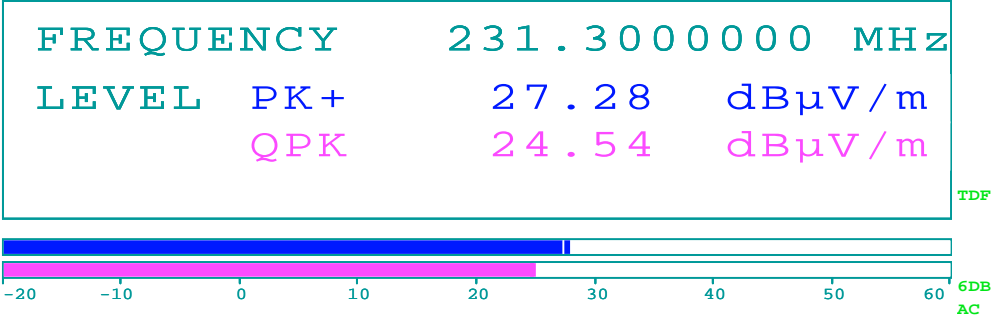
Date: 15.DEC.2010 08:28:13

RX: VP , 30 - 200MHz

Controlled by EMC32

Att 10 dB

RBW 120 kHz
MT 100 ms
PREAMP ON



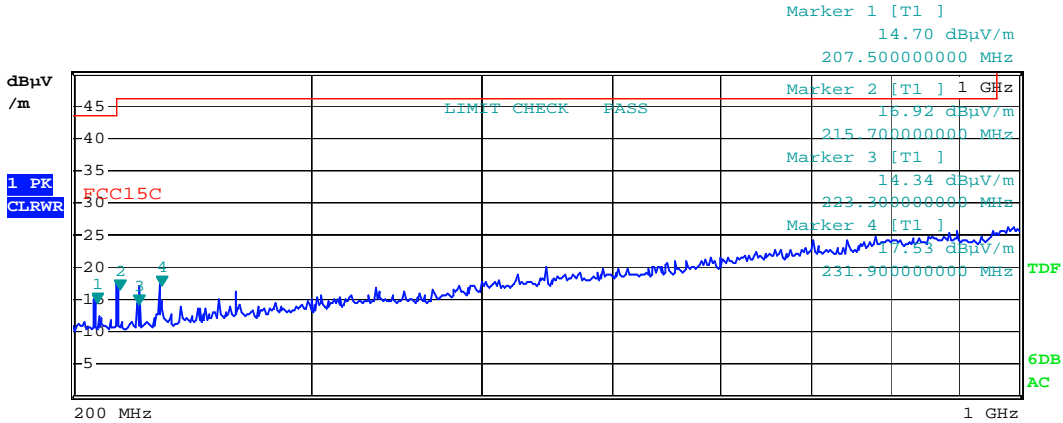
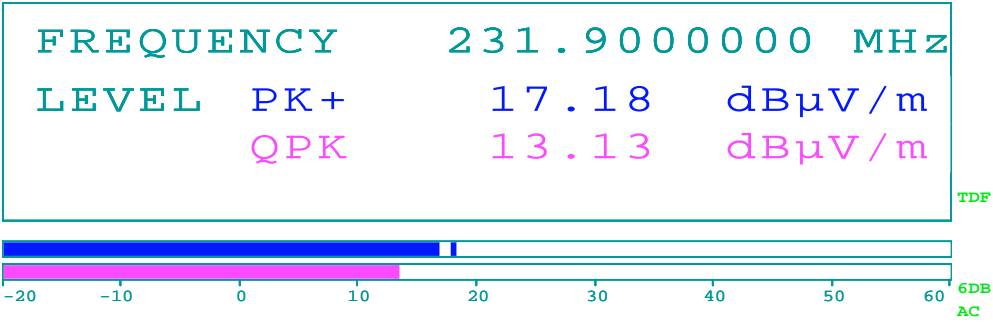
Date: 15.DEC.2010 09:10:08

RX: HP , 200 - 1000MHz

Controlled by EMC32

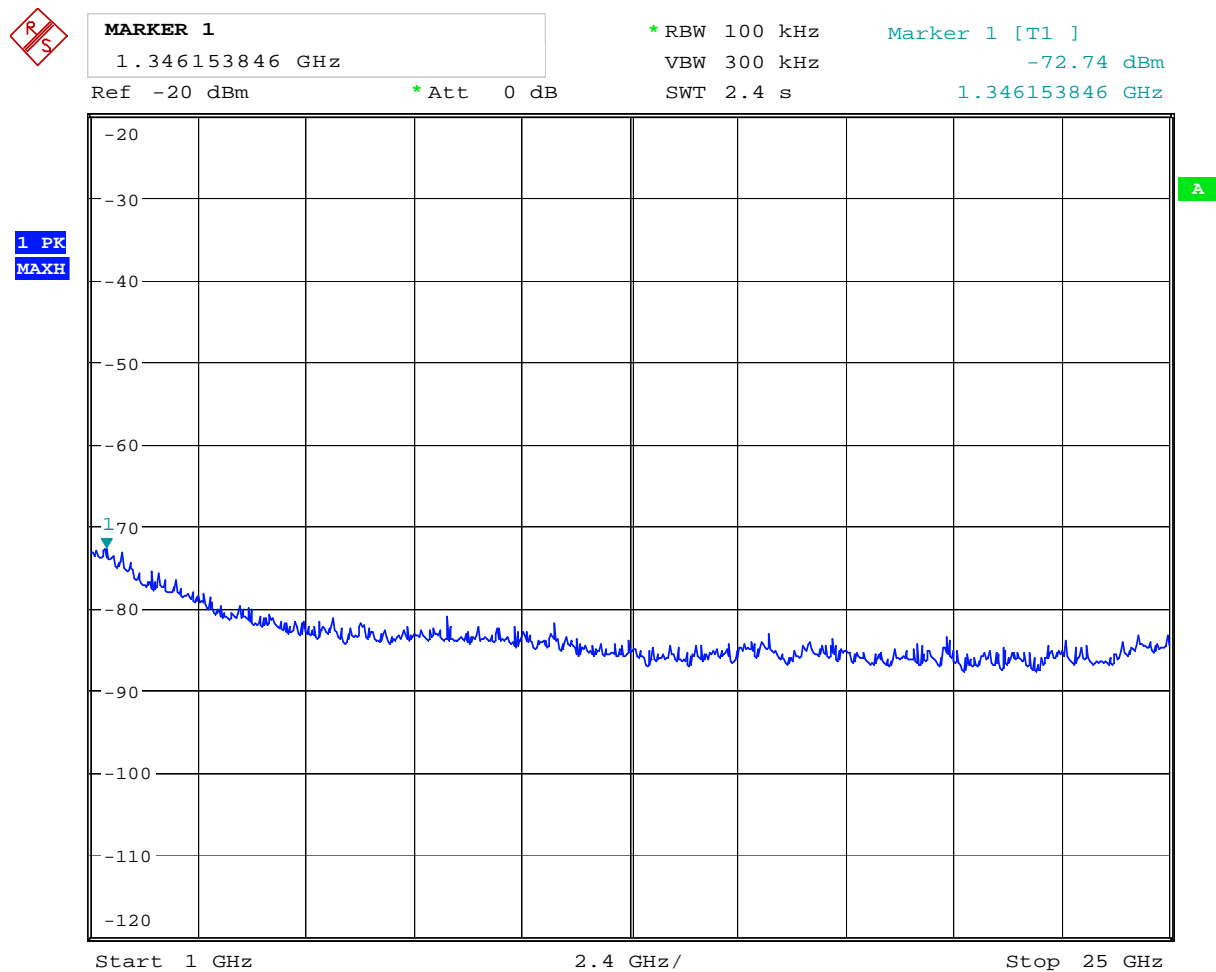
RBW 120 kHz
MT 100 ms
PREAMP ON

Att 10 dB



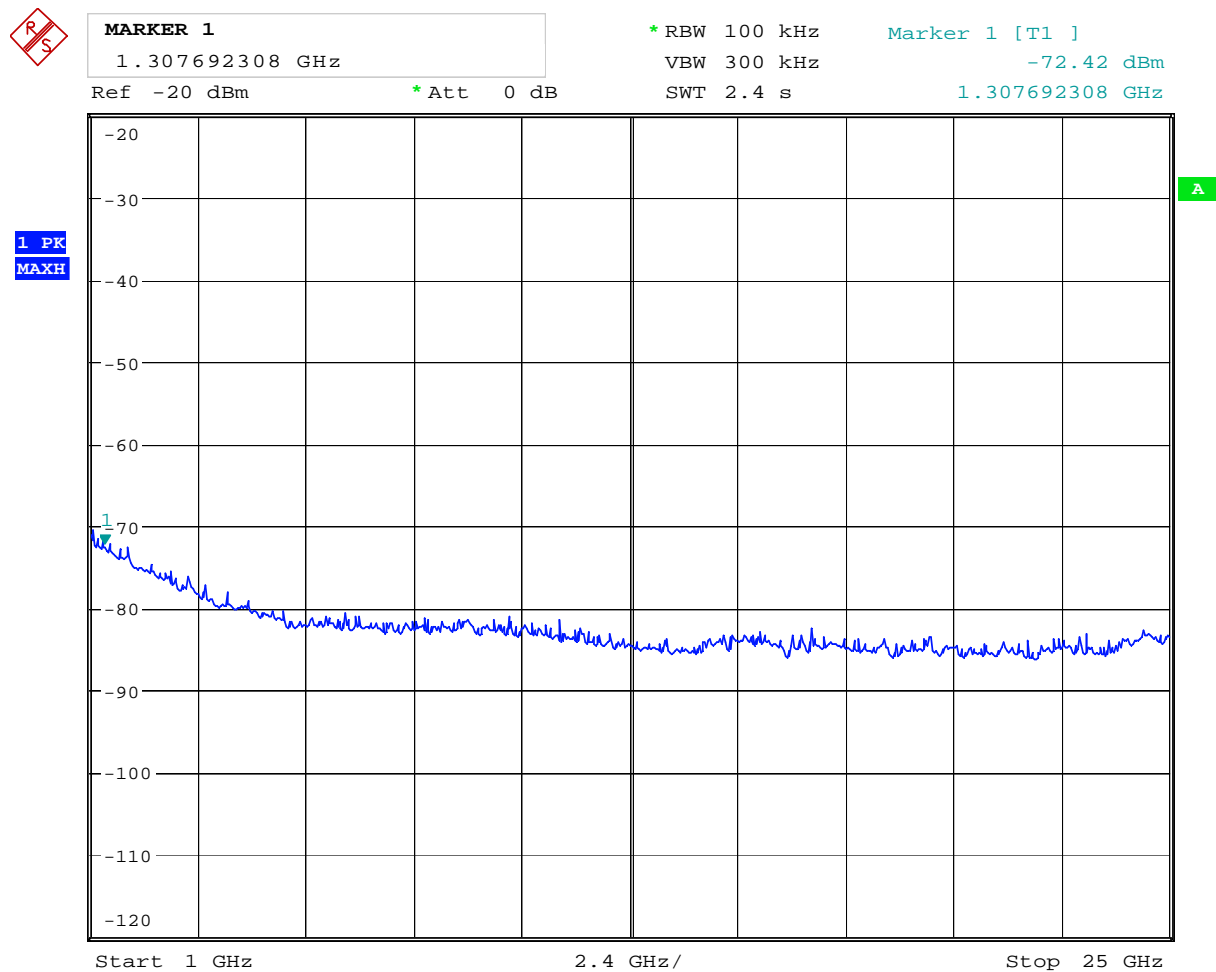
Date: 15.DEC.2010 09:18:00

RX: VP , 200 - 1000MHz



Date: 15.DEC.2010 10:20:26

RX: HP, 1 - 25 GHz (only a pre-view scan at 1 m distance)



Date: 15.DEC.2010 10:14:56

RX: VP, 1 - 25 GHz (only a pre-view scan at 1 m distance)

4.6 Power Spectral Density (PSD)

Para. No.: 15.247 (d)

Test Performed By: G.Suwanthakumar

Date of Test: 15-Dec-2010

Test Results: Passed

Measured and Calculated Data:

Measured Conducted Values:

Ch0 - Lower Channel:

PSD = 35 – 57.86 dBm/Hz= -22.86 dBm

Ch7 - Middle Channel:

PSD = 35 – 56.96 dBm/Hz= -21.96 dBm

Ch14 - Upper Channel:

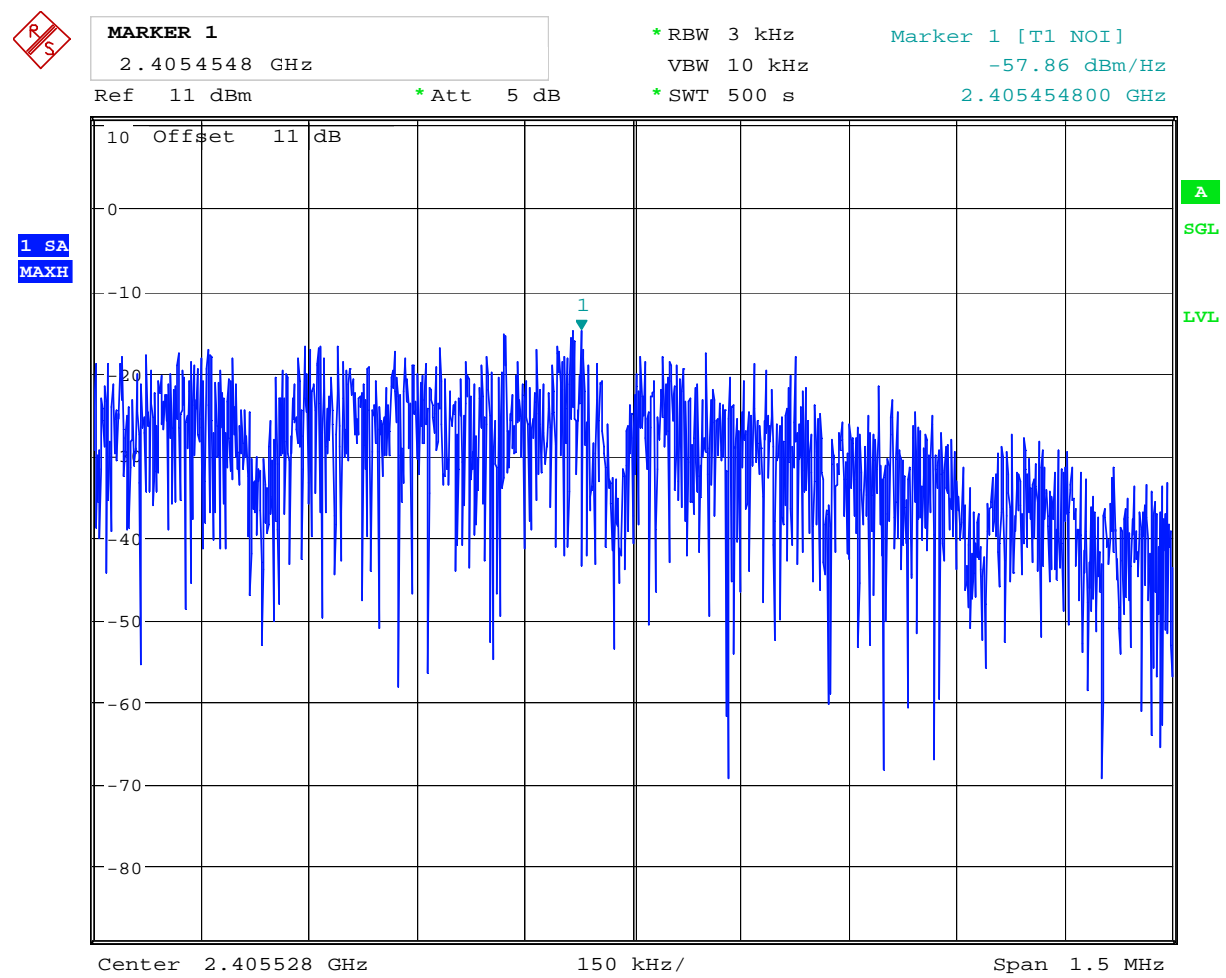
PSD = 35 – 58.35 dBm/Hz= -23.35 dBm

The spectrum line spacing is less than 3kHz, therefore used noise power density and corrected with 35 dB for 3kHz

Requirements:

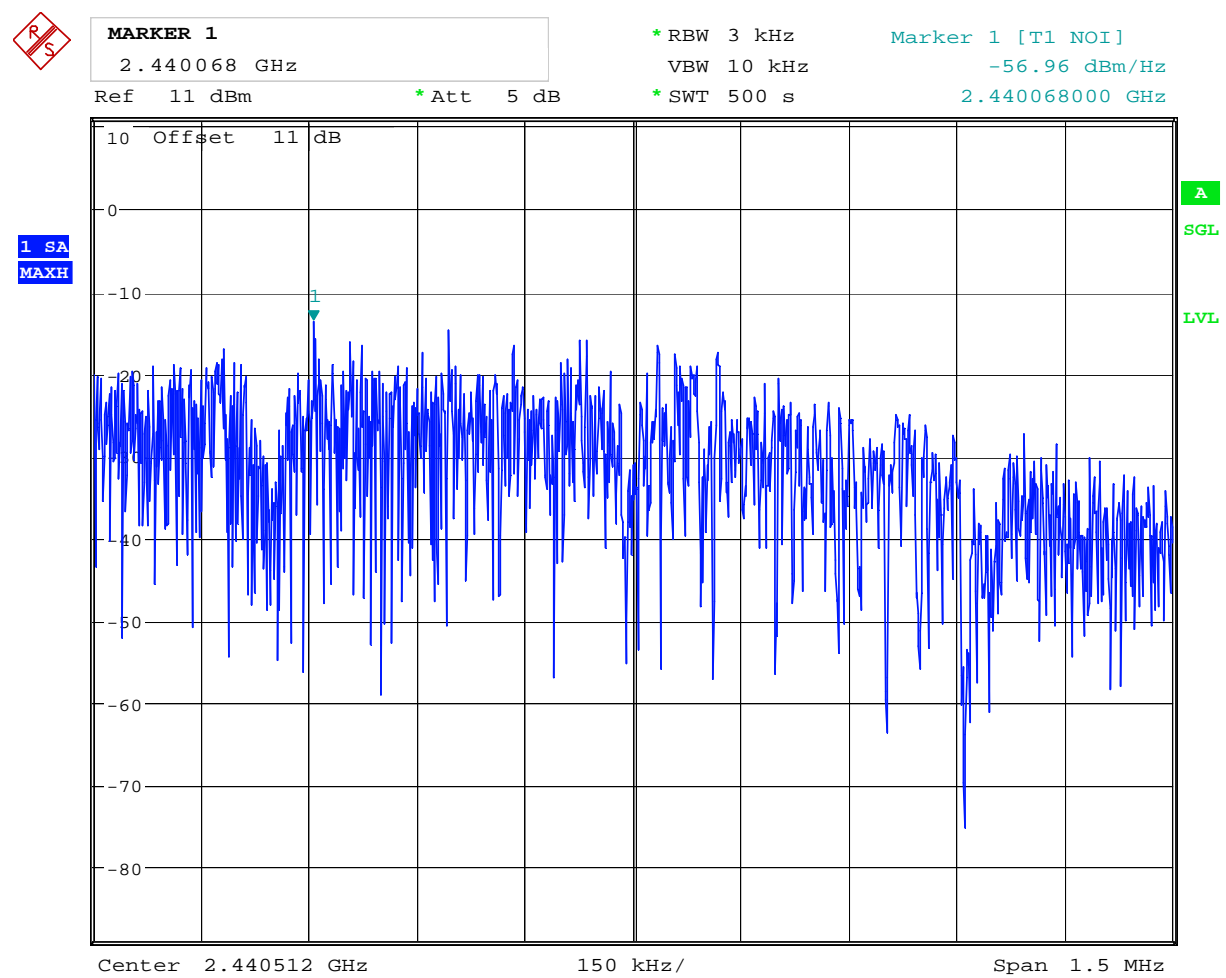
The Power Spectral Density of a Digital Transmission System shall be no greater than +8 dBm in any 3 kHz band

No requirements for Frequency Hopping Systems.



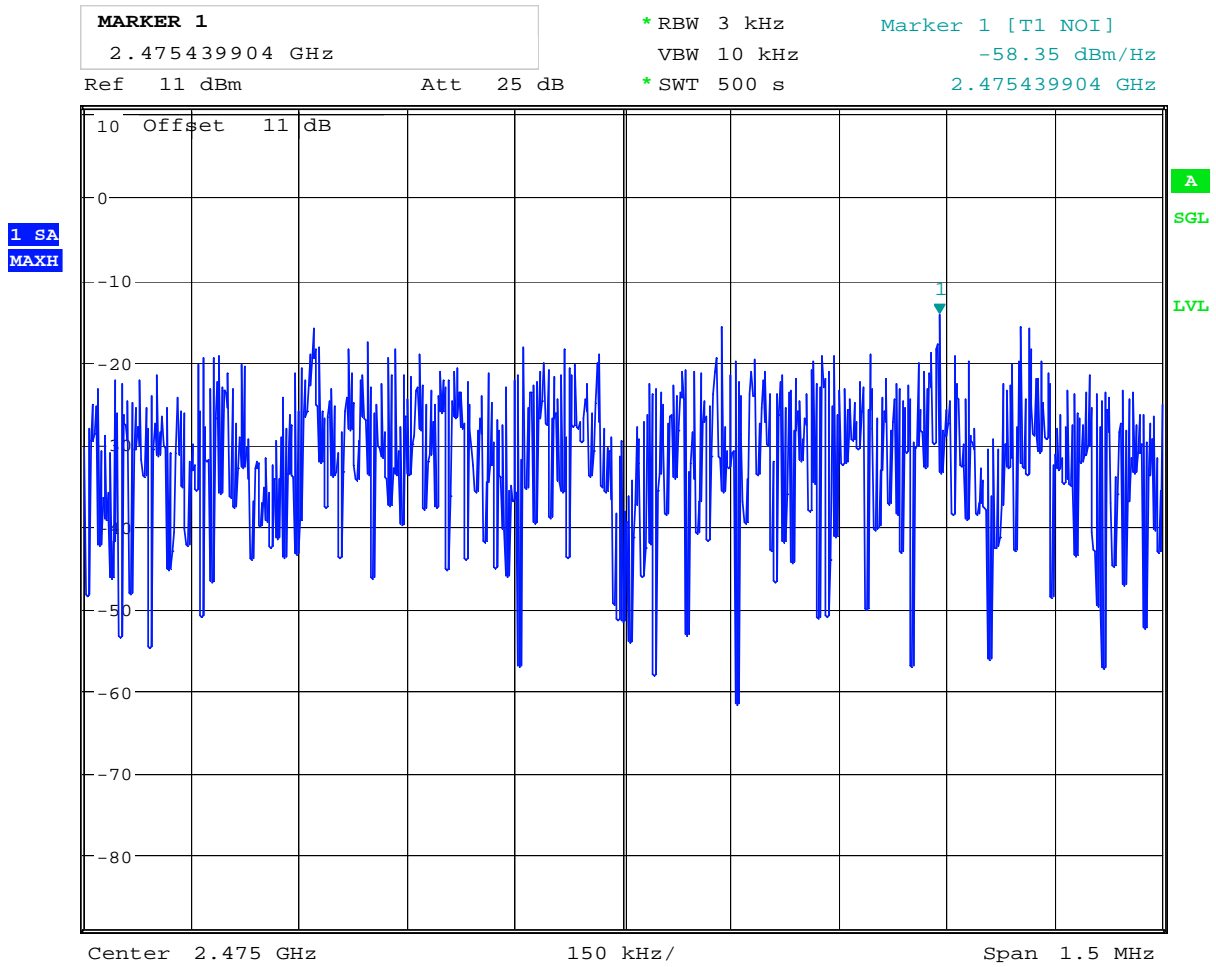
Date: 15.DEC.2010 14:38:35

Ch0 – Power Density – Conducted measurement



Date: 15.DEC.2010 14:28:56

Ch7 – Power Density – Conducted measurement



Date: 16.MAR.2012 15:26:53

Ch14 – Power Density – Conducted measurement

5 LIST OF TEST EQUIPMENT

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment and ancillaries are identified (numbered) by the Test Laboratory.

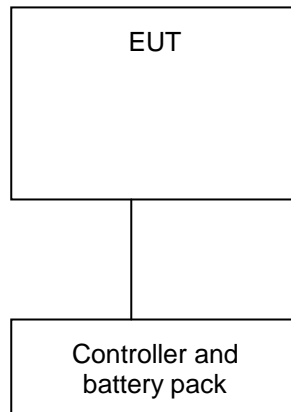
No.	Model number	Description	Manufacturer	Ref. no.	Cal. date	Cal. Due
1.	FSU26	Spectrum Analyzer	Rohde & Schwarz	LR 1504	28.09.2010	28.09.2011
2.	ESCI	EMI Receiver	Rohde & Schwarz	N 4259	09.09.2010	09.09.2011
3.	FSEK 1088,3494,30	Spectrum Analyzer	R&S	1337	15.12.2010	15.12.2012
4.	3115	Antenna horn	EMCO	LR 1330	05.08.2010	05.08.2013
5.	643	Antenna horn	Narda	LR 093	26.01.2009	26.01.2012
6.	642	Antenna horn	Narda	LR 220	26.01.2009	26.01.2012
7.	PM7320X	Antenna horn	Sivers lab	LR 103	26.01.2009	26.01.2012
8.	DBF-520-20	Antenna horn	Systron Donner	LR 101	26.01.2009	26.01.2012
9.	638	Antenna horn	Narda	LR 098	26.01.2009	26.01.2012
10.	Sucoflex 102E	Cable microwave	Suhner	LR 1370	-	-
11.	6032A	Power supply	HP	LR 1062	-	-
12.	77	Multimeter, Digital	Fluke	LR155	03.11.2010	03.11.2011
13.	8449B	Amplifier	Hewlett Packard	LR 1322	04.08.2009	04.08.2011
14.	HFH2-Z2	Antenna loop	Rohde and Schwarz	LR 285	08.10.2010	08.10.2013
15.	10855A	Amplifier	Hewlett Packard	LR 1445	04.08.2010	04.08.2011
16.	HL223	Antenna log.per	Rohde & Schwarz	LR 1261	19.05.2010	09.05.2013
17.	HK116	Antenna biconic	Rohde & Schwarz	LR 1260	19.05.2010	09.05.2013
18.	ESN	Test Receiver	Rohde & Schwarz	LR 1237	16.09.2010	06.09.2011
19.	ESH3-Z3	LISN	Rohde & Schwarz	LR 1076	22.10.2009	22.10.2011
20.	B32-10R	Power supply	Oltronix	LR 126	-	-
21.	ESAI	EMI Receiver	Rohde & Schwarz	LR 1090/1089	04.03.2010	04.03.2011
22.	ESH3-Z2	Pulse Limiter	Rohde & Schwarz	LR 1074	03.03.2010	03.03.2012

15.03.2012

1.	FSU26	Spectrum Analyzer	Rohde & Schwarz	LR 1504	28.09.2011	28.09.2012
2.	FSEK 1088,3494,30	Spectrum Analyzer	R&S	1337	15.12.2010	15.12.2012
3.	3115	Antenna horn	EMCO	LR 1330	05.08.2010	05.08.2013
4.	8449B	Pre-amplifier	Hewlett Packard	LR 1322	2011-09-27	2012-09-27
5.	6810.17A	10 attenuator	Suhner	LR 1143	2010.09.15	2012.09.15
6.	FA210A1010 003030	Microwave cable	Rosenberger	LR1566	Cal b4 use	

6 BLOCK DIAGRAM

6.1 System set up for radiated measurements



Test equipment: 1, 2, 3, 4, 6, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18

6.2 Test Site Radiated Emission

