



Dates of Tests: January 02 ~ February 08, 2013
Test Report S/N: LR500111302B
Test Site : LTA Co., Ltd.

CERTIFICATION OF COMPLIANCE

FCC ID.

VUJAT911

APPLICANT

ATID Co., Ltd.

Equipment Class	:	Digital Transmission System (DTS)
Manufacturing Description	:	Industrial PDA
Manufacturer	:	ATID Co., Ltd.
Model name	:	AT911
Variet Model name	:	Smart Eagle
Test Device Serial No.:	:	Identical prototype
Rule Part(s)	:	FCC Part 15.247 Subpart C; ANSI C-63.4-2003
Frequency Range	:	2412MHz ~ 2462MHz
Max. Output Power	:	Max 17.21dBm - Conducted (802.11b) Max 16.27dBm - Conducted (802.11g)
Data of issue	:	February 13, 2013

This test report is issued under the authority of:

The test was supervised by:



Kyu-Hyun Lee, Manager



Jung-Moo Her, Test Engineer

This test result only responds to the tested sample. It is not allowed to copy this report even partly without the allowance of the test laboratory. This report must not be used by the applicant to claim product endorsement by any agency.



NVLAP LAB Code.: 200723-0

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1. General information's

1-1 Test Performed

Company name : LTA Co., Ltd.
 Address : 243, Jubug-ri, Yangji-Myeon, Youngin-Si, Kyunggi-Do, Korea. 449-822
 Web site : <http://www.ltalab.com>
 E-mail : chahn@ltalab.com
 Telephone : +82-31-323-6008
 Facsimile : +82-31-323-6010

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the “General requirements for the competents of calibration and testing laboratory”.

1-2 Accredited agencies

LTA Co., Ltd. is approved to perform EMC testing by the following agencies:

Agency	Country	Accreditation No.	Validity	Reference
NVLAP	U.S.A	200723-0	2013-09-30	ECT accredited Lab.
RRL	KOREA	KR0049	2013-04-24	EMC accredited Lab.
FCC	U.S.A	610755	2014-04-27	FCC filing
FCC	U.S.A	649054	2013-04-13	FCC CAB
VCCI	JAPAN	R2133(10m), C2307	2014-06-21	VCCI registration
VCCI	JAPAN	T-2009	2013-12-23	VCCI registration
VCCI	JAPAN	G-563	2015-05-28	VCCI registration
IC	CANADA	5799A-1	2015-06-21	IC filing

2. Information's about test item

2-1 Manufacturer

Company name : ATID Co., Ltd
 Address : #1210 Byuksan/Gyungin digital valley II #481 – 10 Gasan-Dong
 Gumchon-Gu Seoul KOREA
 Tel / Fax : Tel : 82-2-544-1436 / Fax :82-2-544-1438

2-2 Equipment Under Test (EUT)

Trade name : ATID
 Model name : AT911
 Variet Model name : Smart Eagle
 Serial number : Identical prototype
 Date of receipt : December 05, 2012
 EUT condition : Pre-production, not damaged
 Antenna type : PIFA antenna with Max. -1.852 dBi gain
 Frequency Range : 2412MHz ~ 2462MHz (DSSS)
 RF output power : Max 17.21dBm - Conducted (802.11b)
 : Max 16.27dBm - Conducted (802.11g)
 Number of channels : 11
 Type of Modulation : CCK, DQPSK, DBPSK for DSSS
 : 64QAM, 16QAM, QPSK, BPSK for OFDM
 Transfer Rate : 11/5.5/2/1Mbps for 802.11b
 : 54/48/36/24/18/12/9/6Mbps for 802.11g
 Power Source for Batt. : 3.7 Vdc from Battery (Li-Ion Polymer Battery)
 Power for Adaptor. : Input: 100-240VAC, 0.3A Output: 5.0VDC, 2A
 Firmware Version : V 1.0

2-3 Tested frequency

	LOW	MID	HIGH
Frequency (MHz) for 802.11b/g	2412	2437	2462

3. Test Report

3.1 Summary of tests

FCC Part Section(s)	Parameter	Limit	Test Condition	Status (note 1)
15.247(a)	6 dB Bandwidth	> 500kHz	Conducted	C
15.247(b)	Transmitter Peak Output Power	< 1Watt		C
15.247(d)	Transmitter Power Spectral Density	< 8dBm @ 3kHz		C
15.247(d)	Band Edge & Spurious	> 20 dBc		C
15.209	Field Strength of Harmonics	Emission	Radiated	C
15.207	AC Conducted Emissions	Emissions	Conducted	C
15.203	Antenna requirement	-	-	C

Note 1: C=Complies NC=Not Complies NT=Not Tested NA=Not Applicable

Note 2: The data in this test report are traceable to the national or international standards.

→ Antenna Requirement

The ATID Co., Ltd. FCC ID: VUJAT911 unit complies with the requirement of §15.203. The antenna is connected to inside of EUT. And type is PIFA antenna.

The sample was tested according to the following specification:

*FCC Parts 15.247; ANSI C-63.4-2003

*FCC KDB Publication No. 558074 D01 DTS Meas. Guidance V02

*FCC TCB Workshop 2012, April

3.2 Technical Characteristics Test (802.11b/g)

3.2.1 6 dB Bandwidth

Procedure:

*The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance and TCB Workshop 2012, April.

The bandwidth at 6dB below the highest in-band spectral density was measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate frequencies.

After the trace being stable, Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 6dB down one side of the emission. Reset the marker-delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 6 dB bandwidth of the emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 100 kHz

Span = 30 MHz

VBW = 100 kHz (VBW \geq RBW)

Sweep = auto

Trace = max hold

Detector function = peak

Measurement Data:

Mode	Frequency (MHz)	Channel No.	Test Results	
			Measured Bandwidth (MHz)	Result
802.11b	2412	1	7.95	Complies
	2437	6	7.95	Complies
	2462	11	8.08	Complies
802.11g	2412	1	15.72	Complies
	2437	6	15.72	Complies
	2462	11	15.50	Complies

- See next pages for actual measured spectrum plots.

Minimum Standard:

6 dB Bandwidth > 500kHz

Measurement Setup

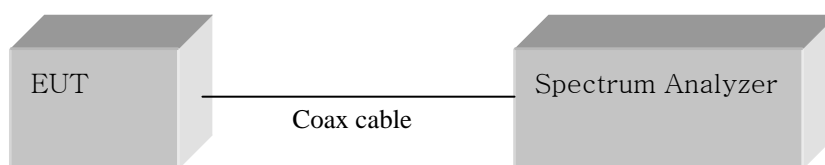
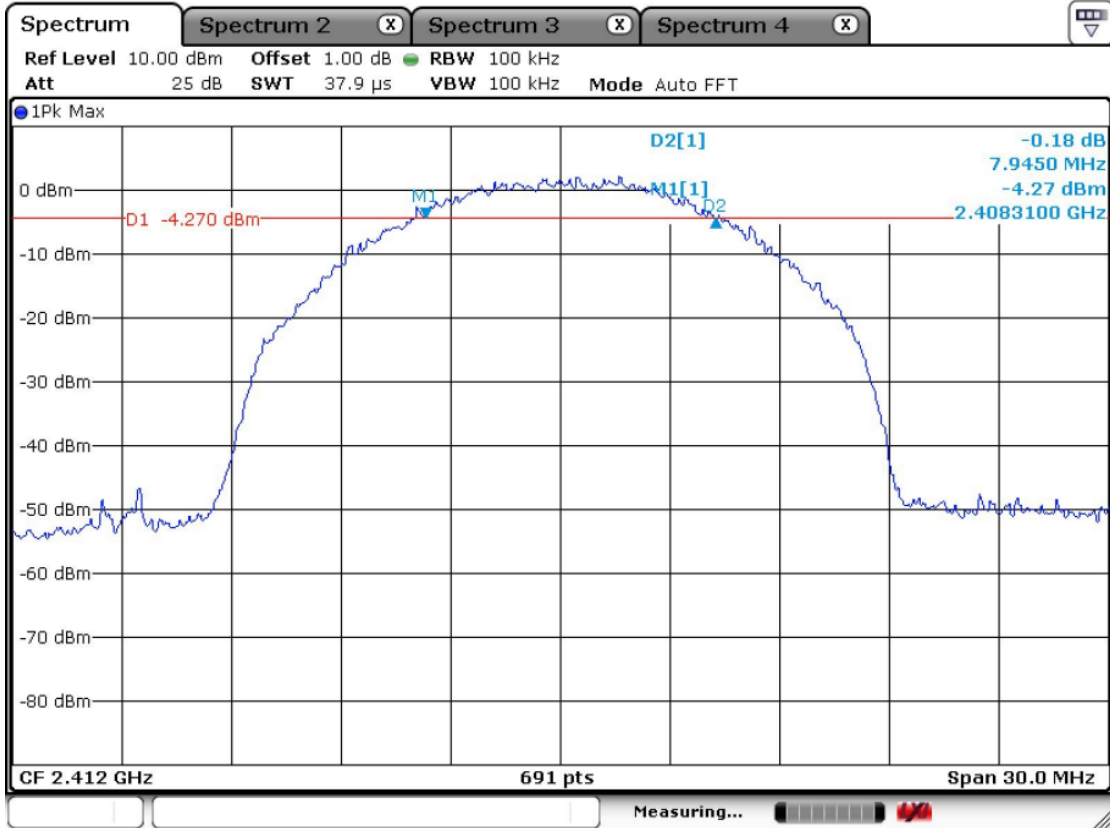
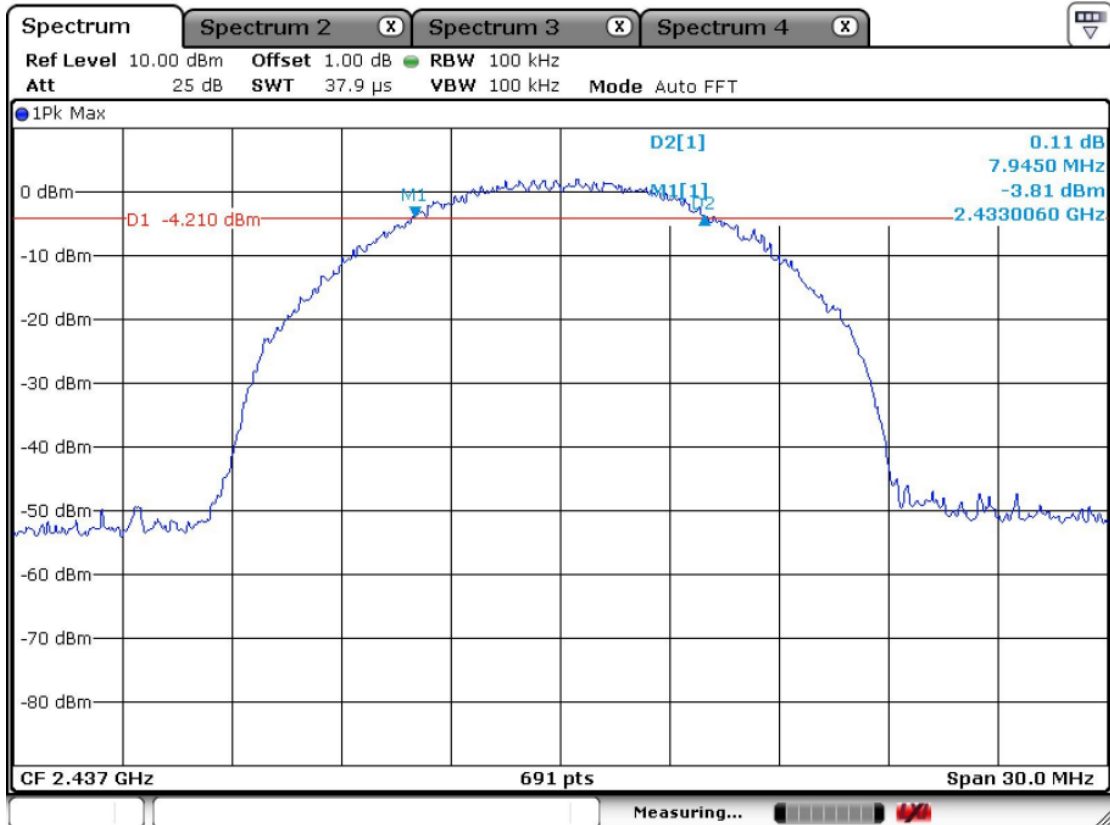


Figure 1: Measurement setup for the carrier frequency separation

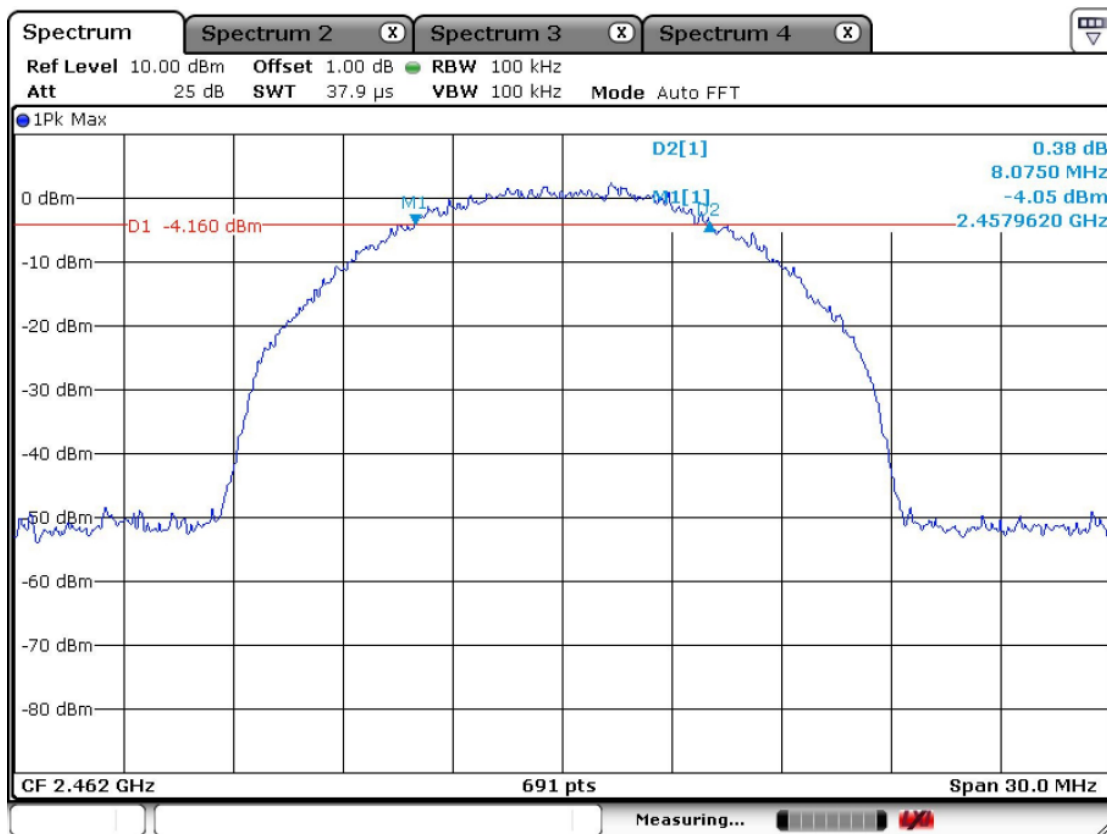
802.11b CH 1



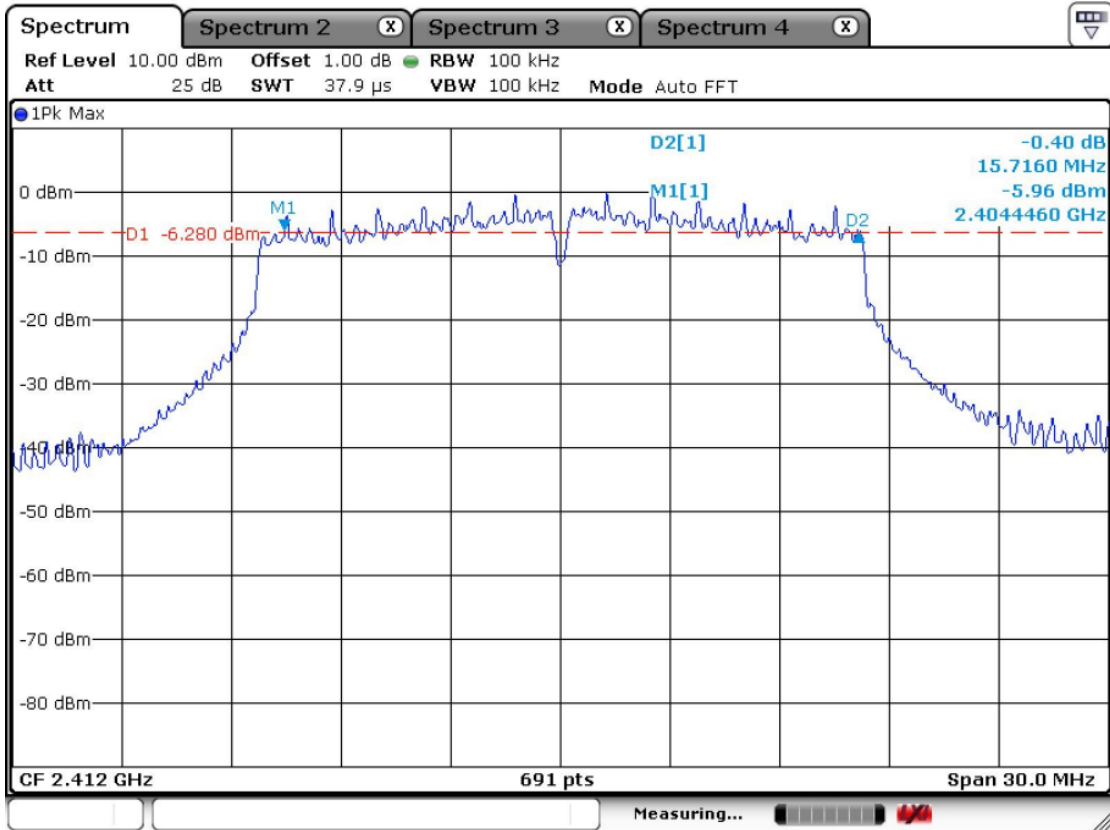
CH 6



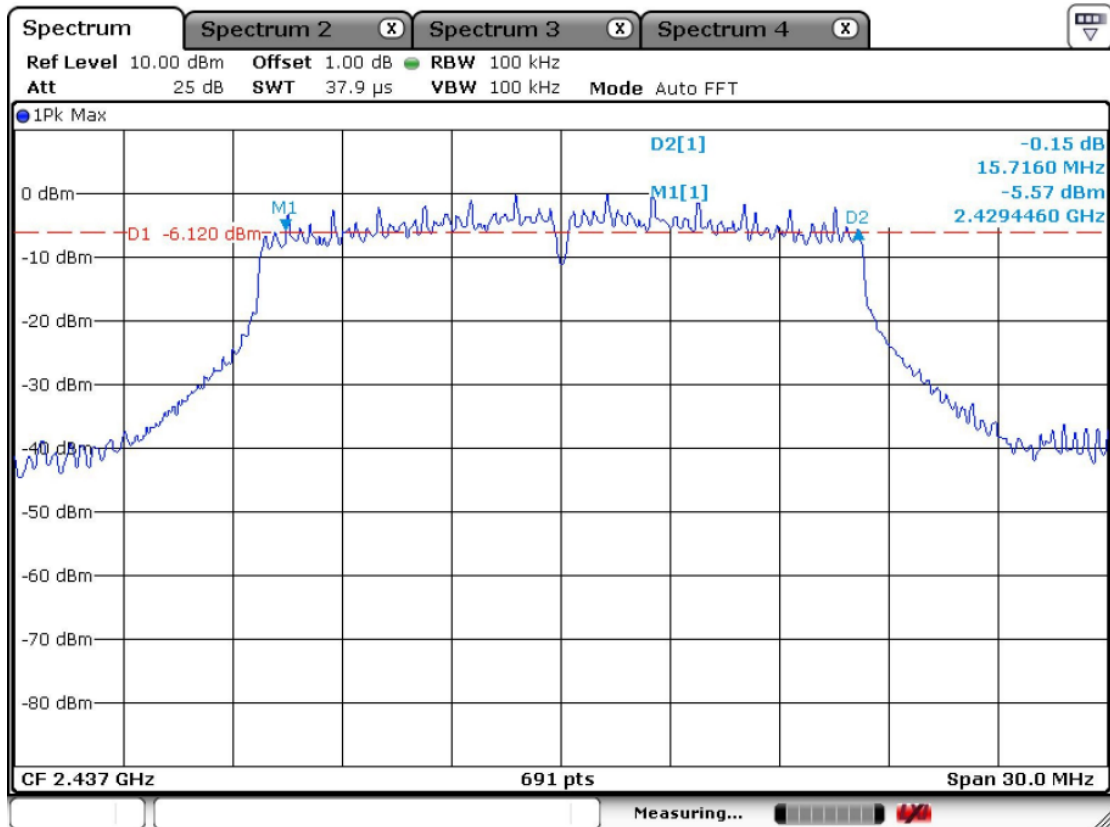
CH 11



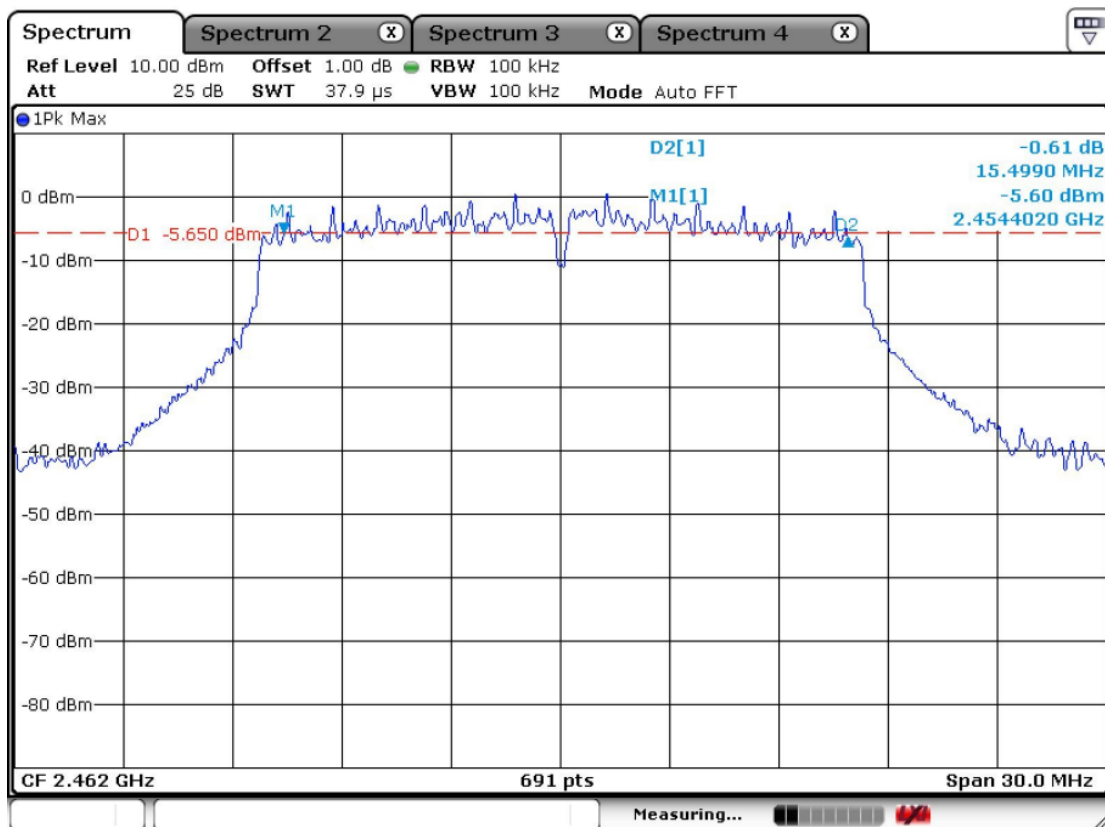
802.11g CH 1



CH 6



CH 11



3.2.2 Peak Output Power Measurement

Procedure:

*The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance and TCB Workshop 2012, April.

The maximum peak output power was measured with the spectrum analyzer connected to the antenna output of the EUT. The spectrum analyzer's internal channel power integration function is used to integrate the power over a bandwidth greater than or equal to the 99% bandwidth. The EUT was operating in transmit mode at the appropriate center frequency.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 1MHz

Span = auto

VBW = 1MHz (VBW \geq RBW)

Sweep = auto

Detector function = peak

Measurement Data:

Mode	Frequency (MHz)	Channel No.	Test Results	
			Measured Data (dBm)	Result
802.11b	2412	1	16.59	Complies
	2437	6	16.79	Complies
	2462	11	17.21	Complies
802.11g	2412	1	15.72	Complies
	2437	6	15.77	Complies
	2462	11	16.27	Complies

- See next pages for actual measured spectrum plots.

Minimum Standard:

Peak output power	< 1W
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Measurement Setup

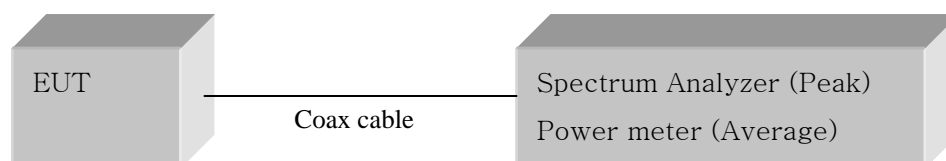
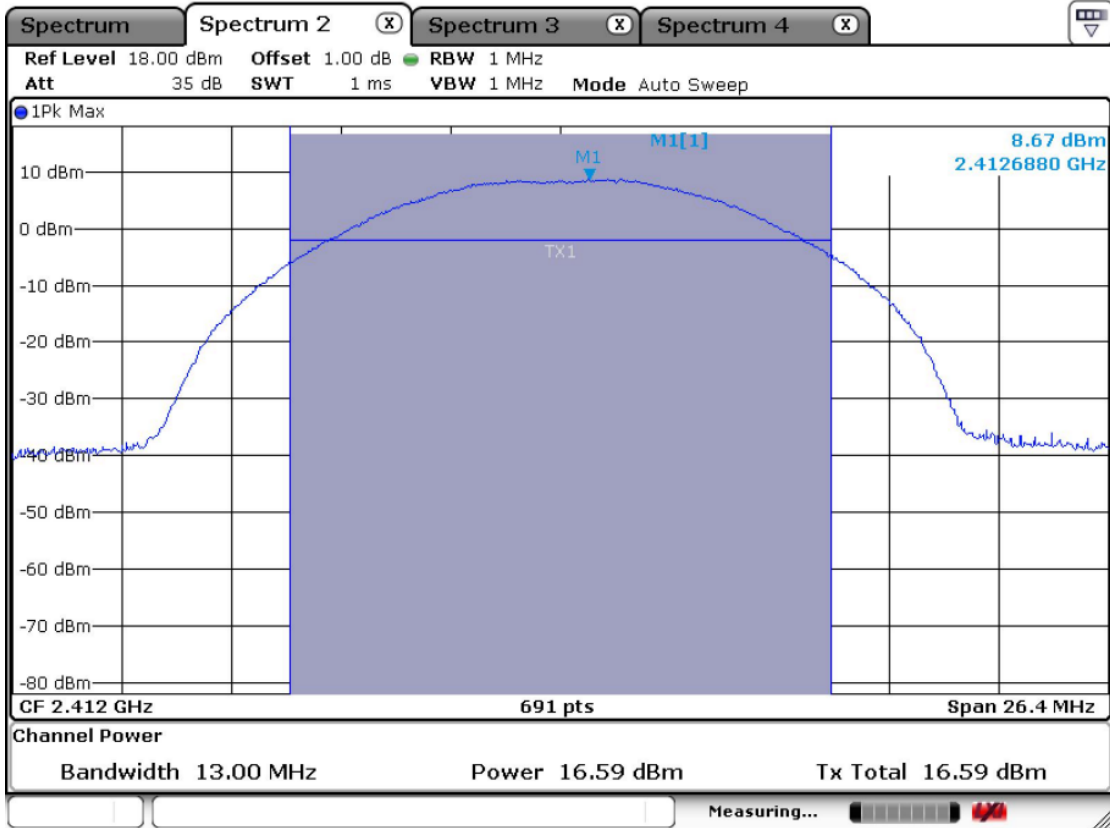
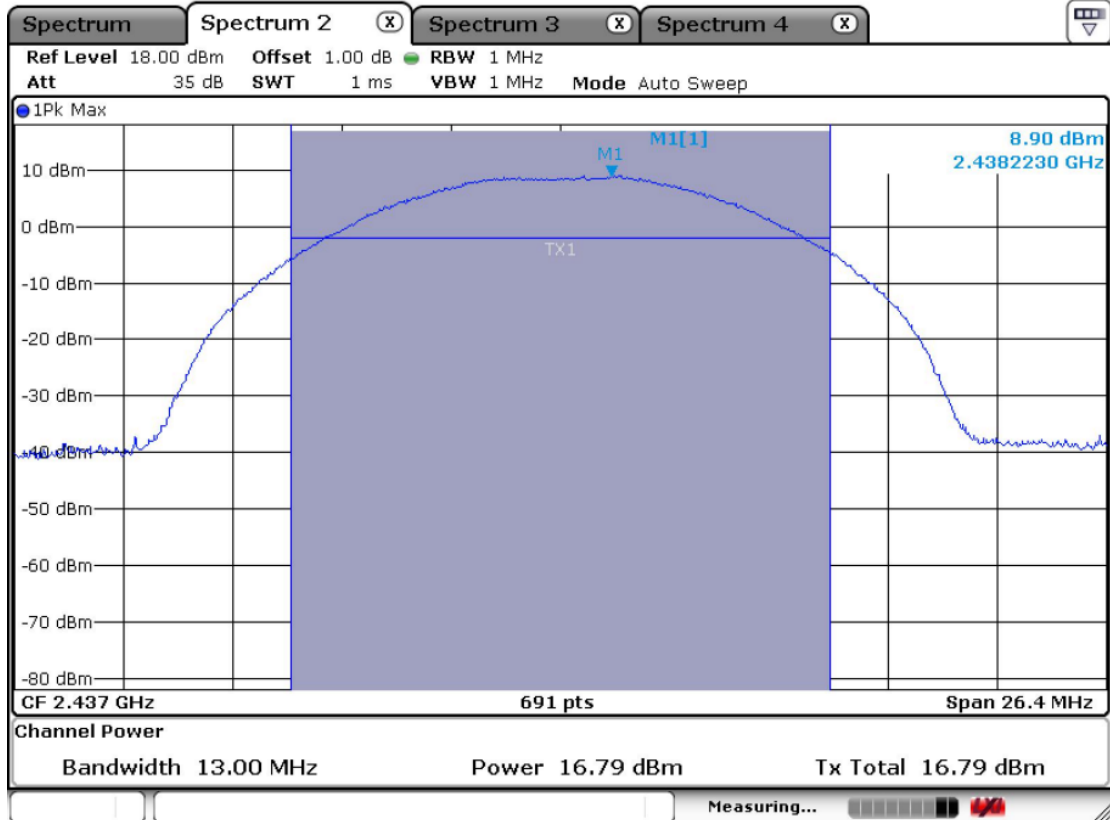


Figure 1: Measurement setup for the carrier frequency separation

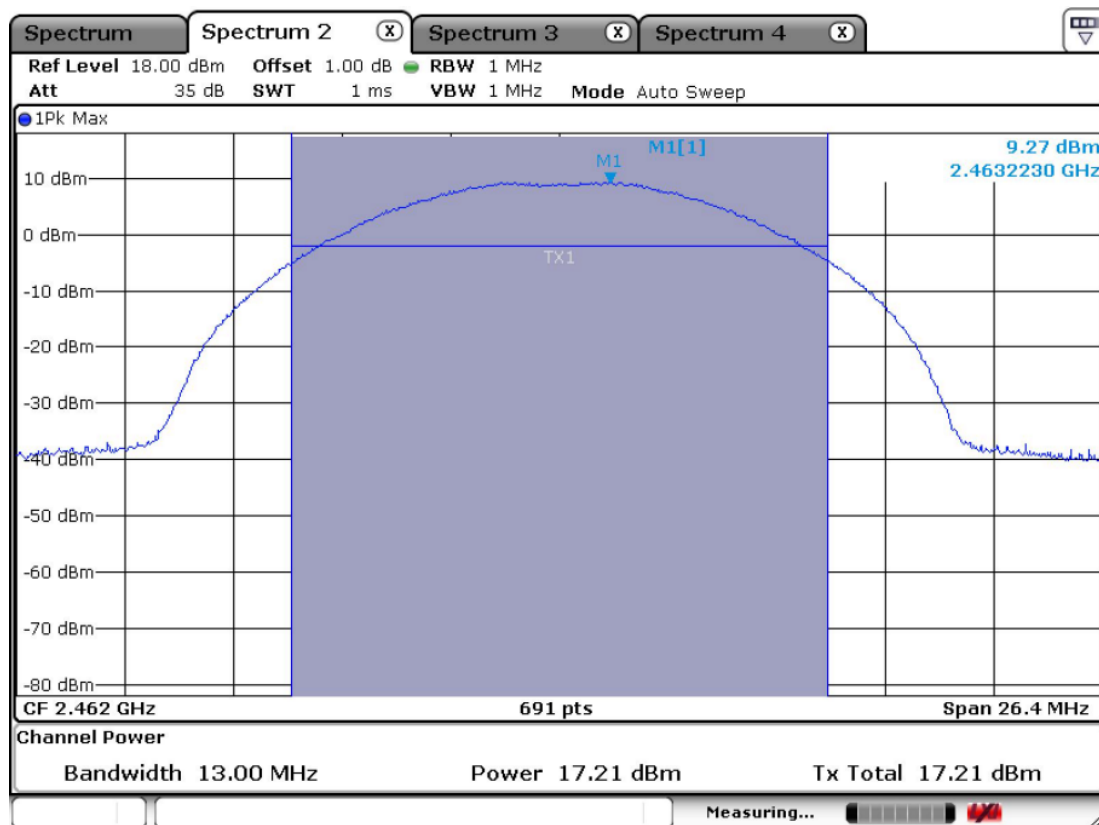
802.11b CH 1



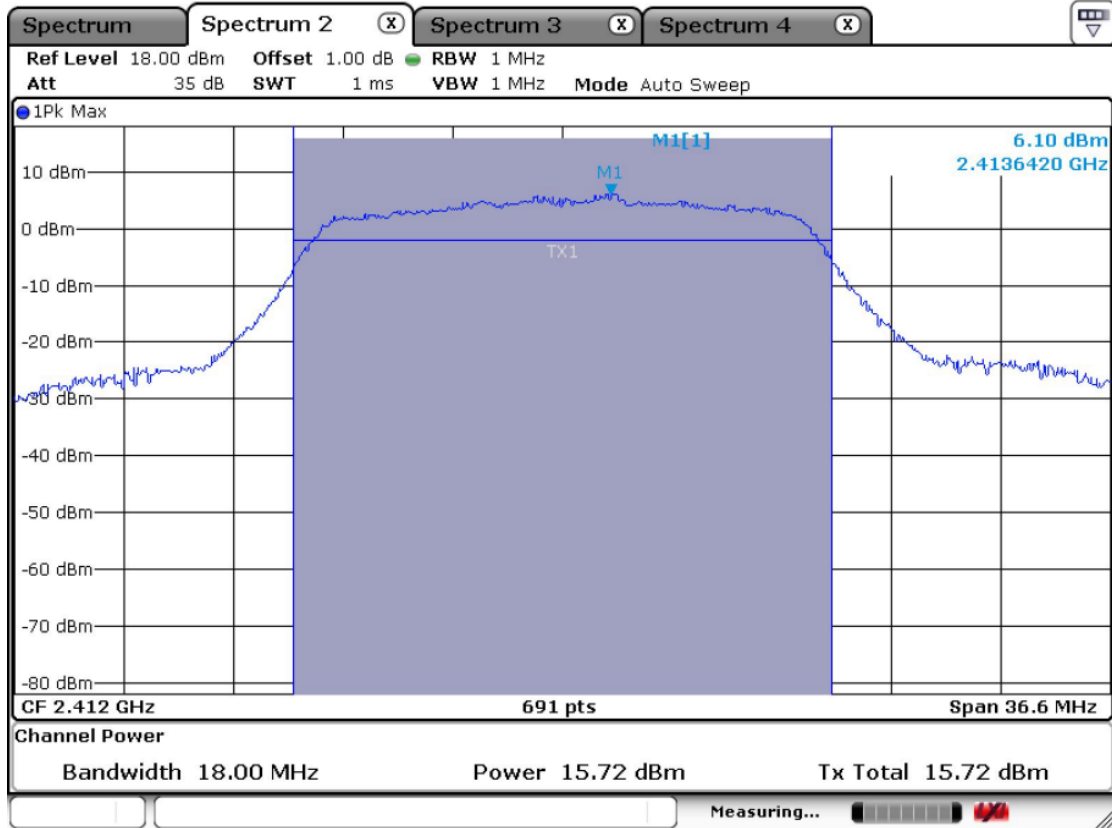
CH 6



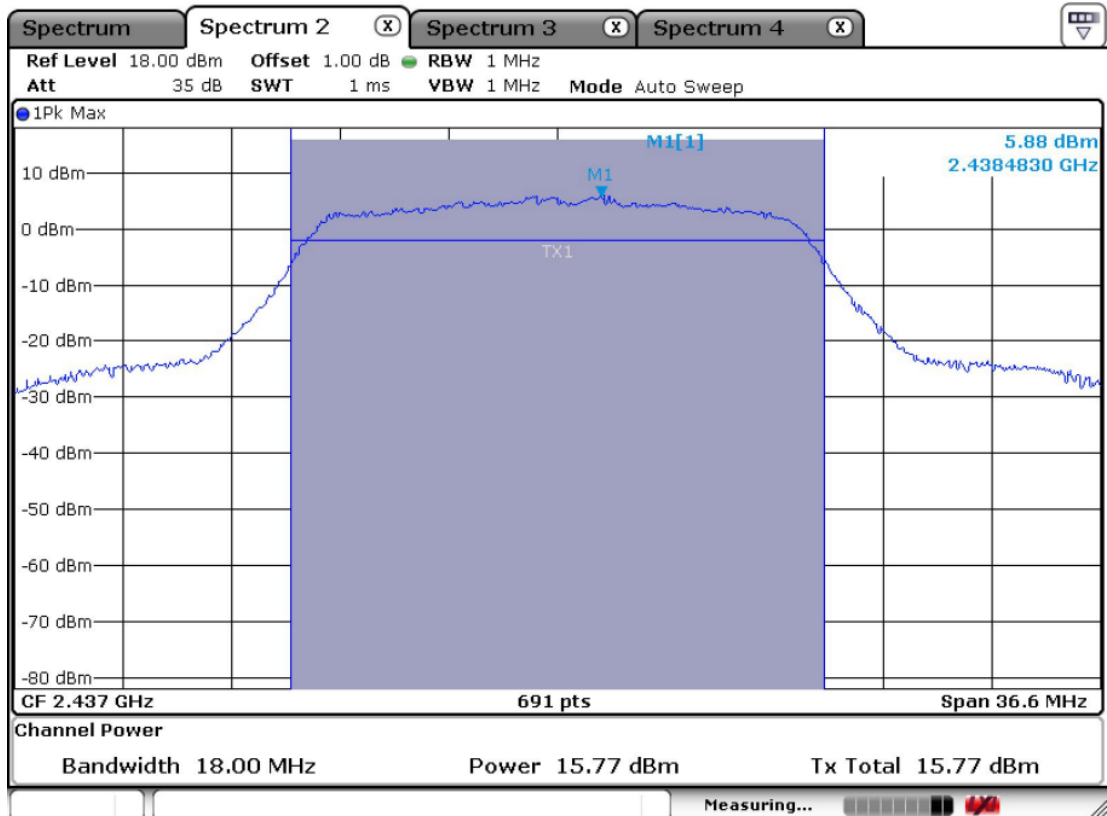
CH 11



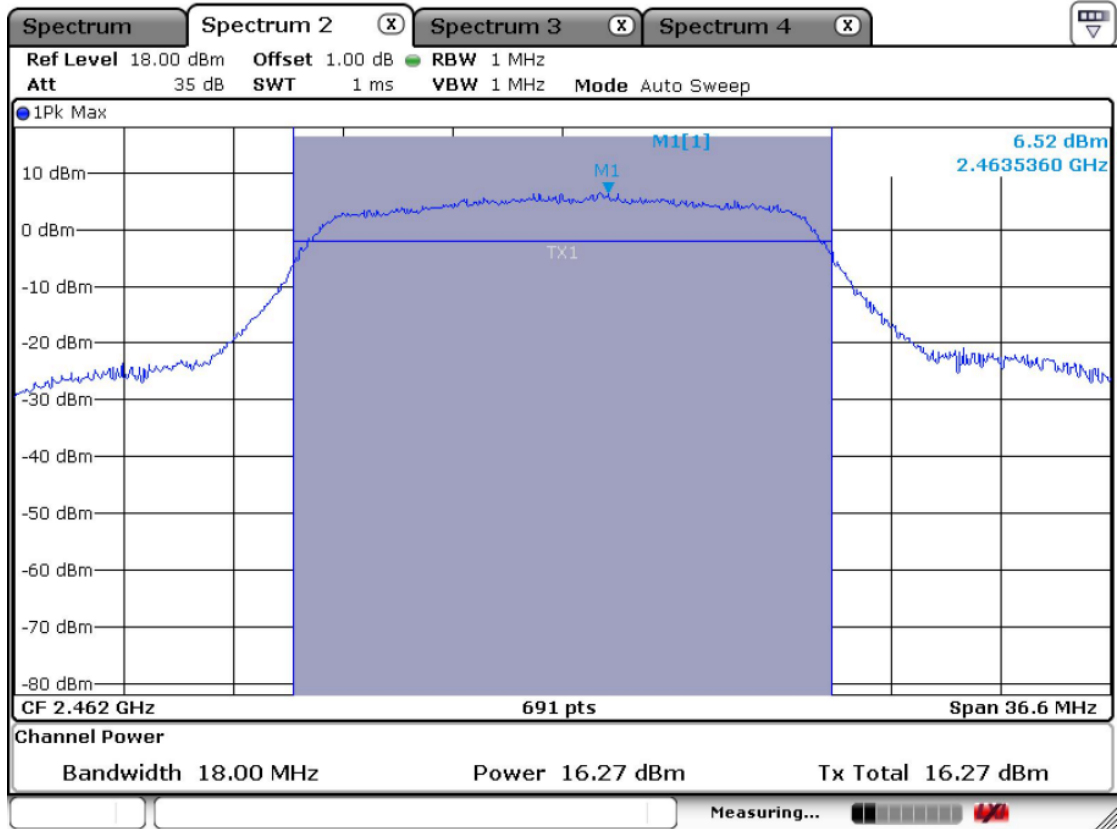
802.11g CH 1



CH 6



CH 11



3.2.3 Power Spectral Density

Procedure:

*The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance and TCB Workshop 2012, April.

The peak power density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating in transmission mode at the appropriate frequencies.

The spectrum analyzer is set to:

RBW = 3 kHz

Span = 300 kHz

VBW = 10 kHz

Sweep = 100 sec

Detector function = peak

Trace = max hold

Measurement Data:

Mode	Frequency (MHz)	Ch.	Test Results	
			dBm	Result
802.11b	2412	1	-11.64	Complies
	2437	6	-11.49	Complies
	2462	11	-11.01	Complies
802.11g	2412	1	-21.78	Complies
	2437	6	-21.41	Complies
	2462	11	-20.83	Complies

- See next pages for actual measured spectrum plots.

Minimum Standard:

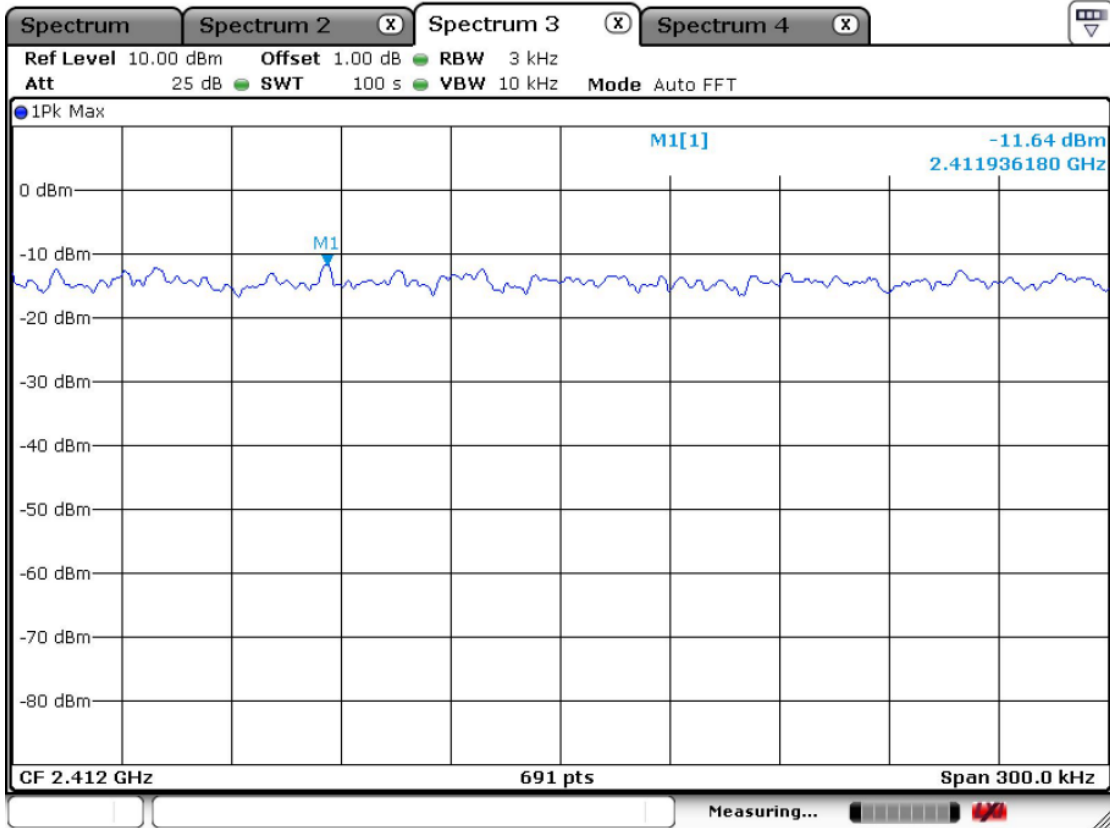
Power Spectral Density	< 8dBm @ 3kHz BW
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Measurement Setup

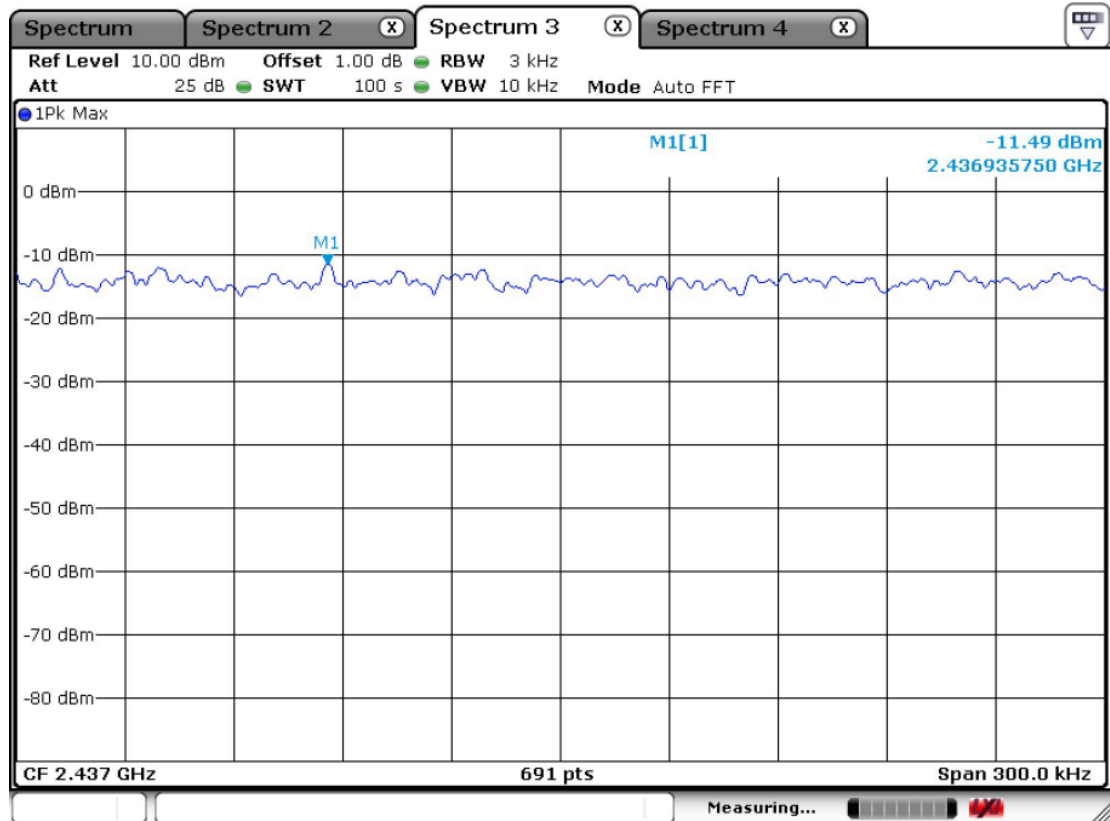
Same as the Chapter 3.2.1 (Figure 1)

802.11b Power Density Measurement

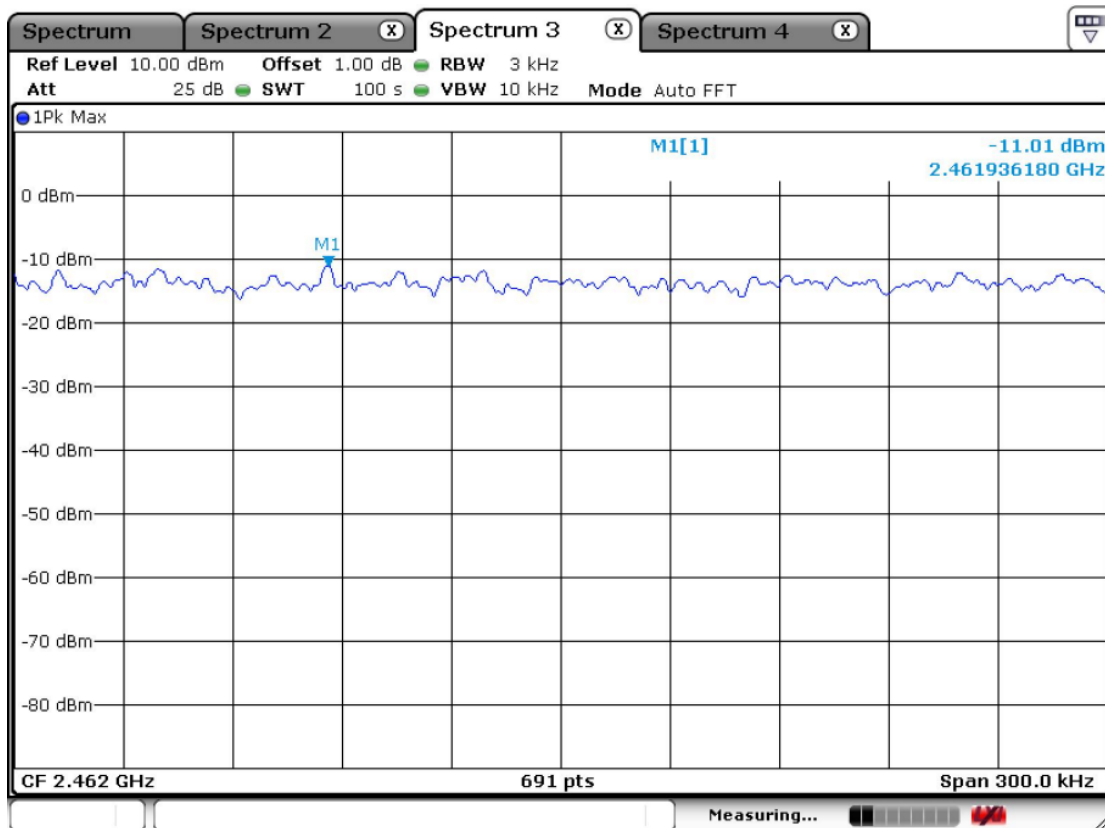
CH 1



CH 6

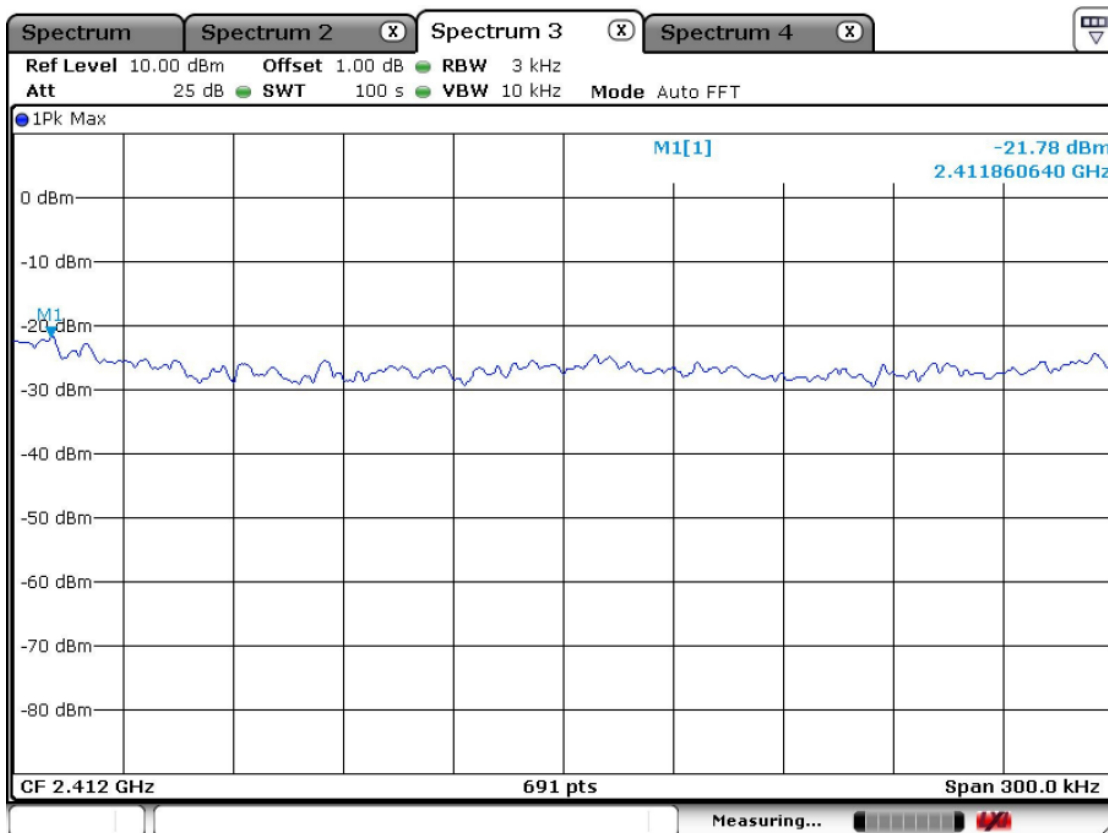


CH 11

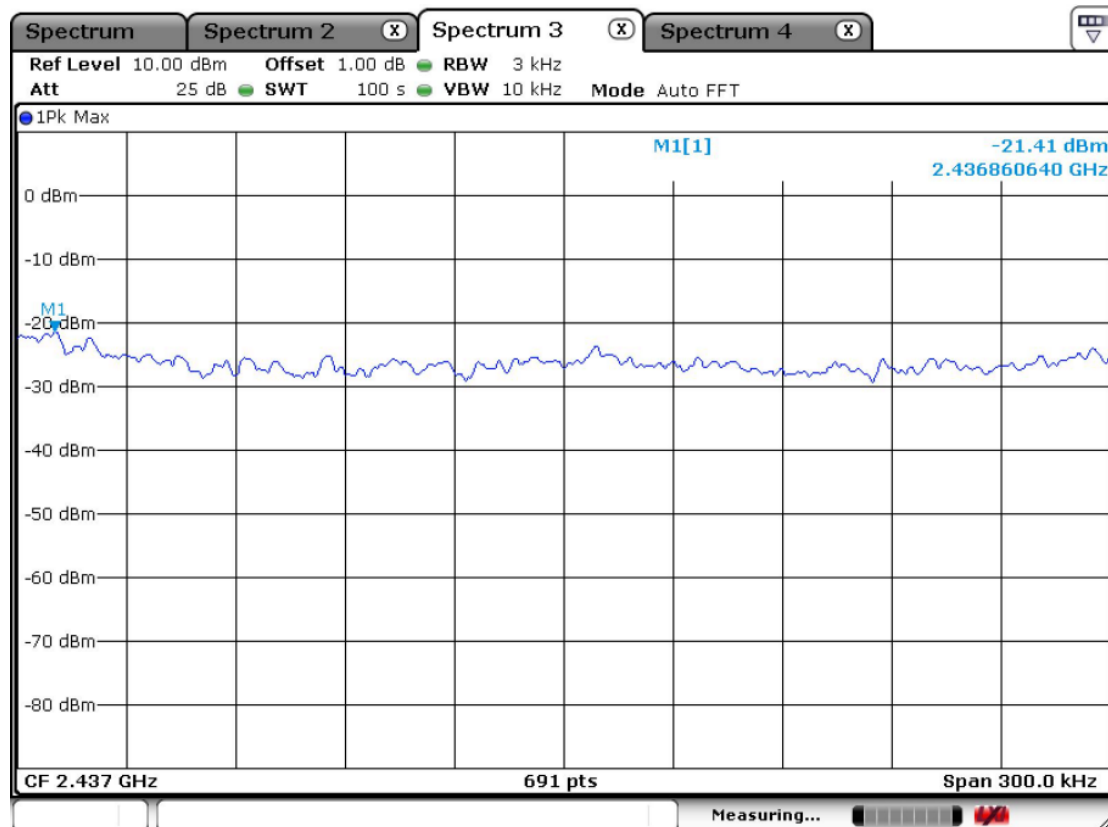


802.11g Power Density Measurement

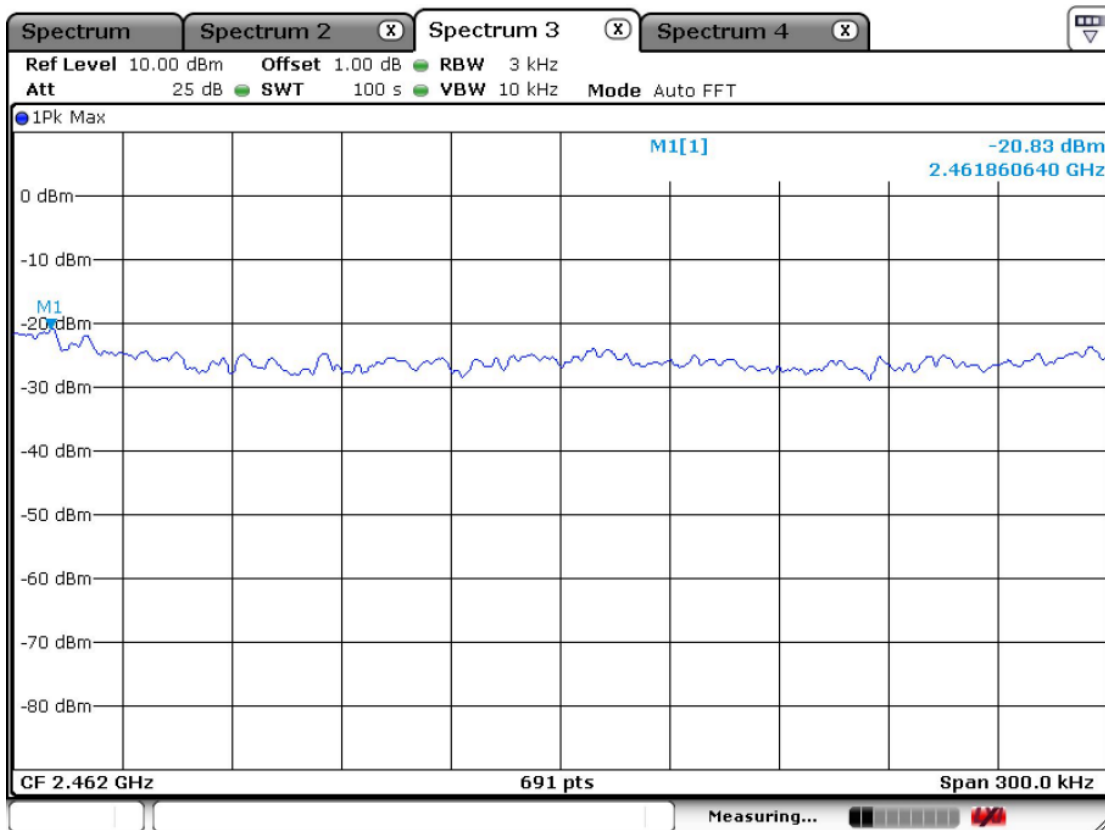
CH 1



CH 6



CH 11



3.2.4 Band - edge

Procedure:

*The testing follows FCC KDB Publication No. 558074 D01 DTS Meas. Guidance and TCB Workshop 2012, April.

The bandwidth at 20dB down from the highest inband spectral density is measured with a spectrum analyzer connected to the antenna terminal, while EUT is operating in transmission mode at the appropriate frequencies.

After the trace being stable, Use the marker-to-peak function to measure 20 dB down both sides of the intentional emission.

The spectrum analyzer is set to:

Center frequency = the highest, middle and the lowest channels

RBW = 100 kHz

VBW = 100 kHz

Span = 80 MHz

Detector function = peak

Trace = max hold

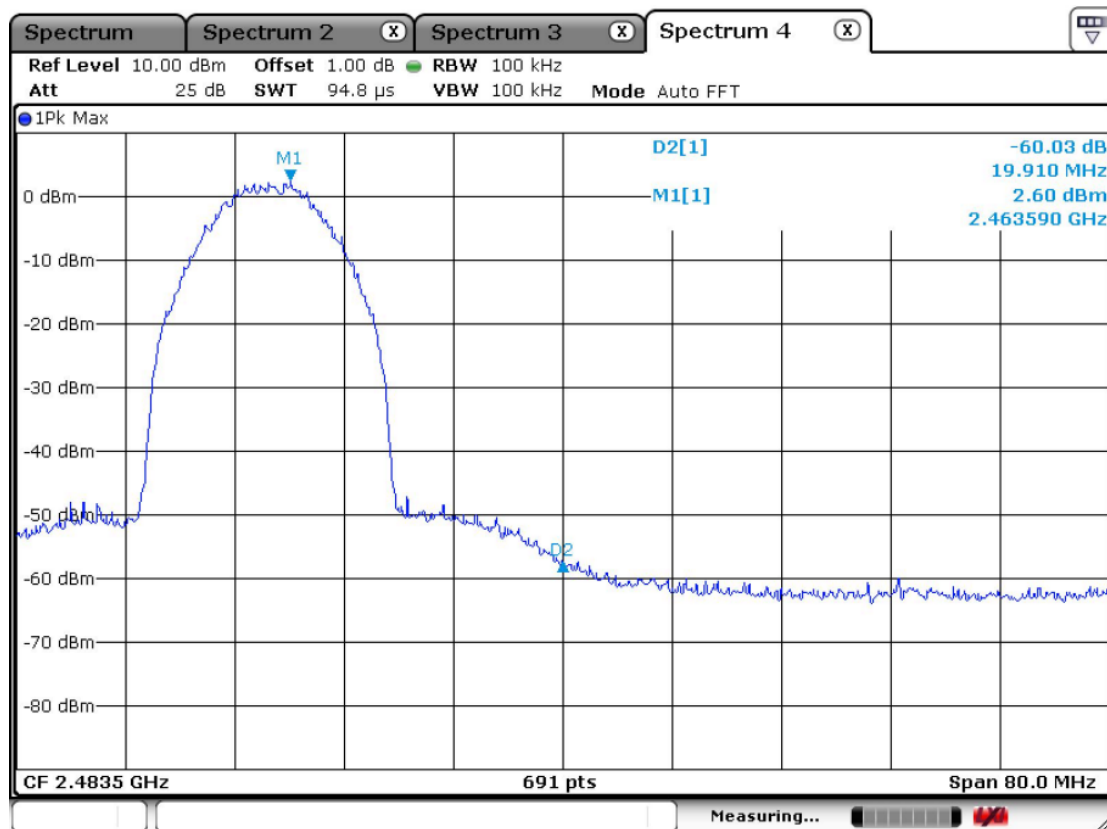
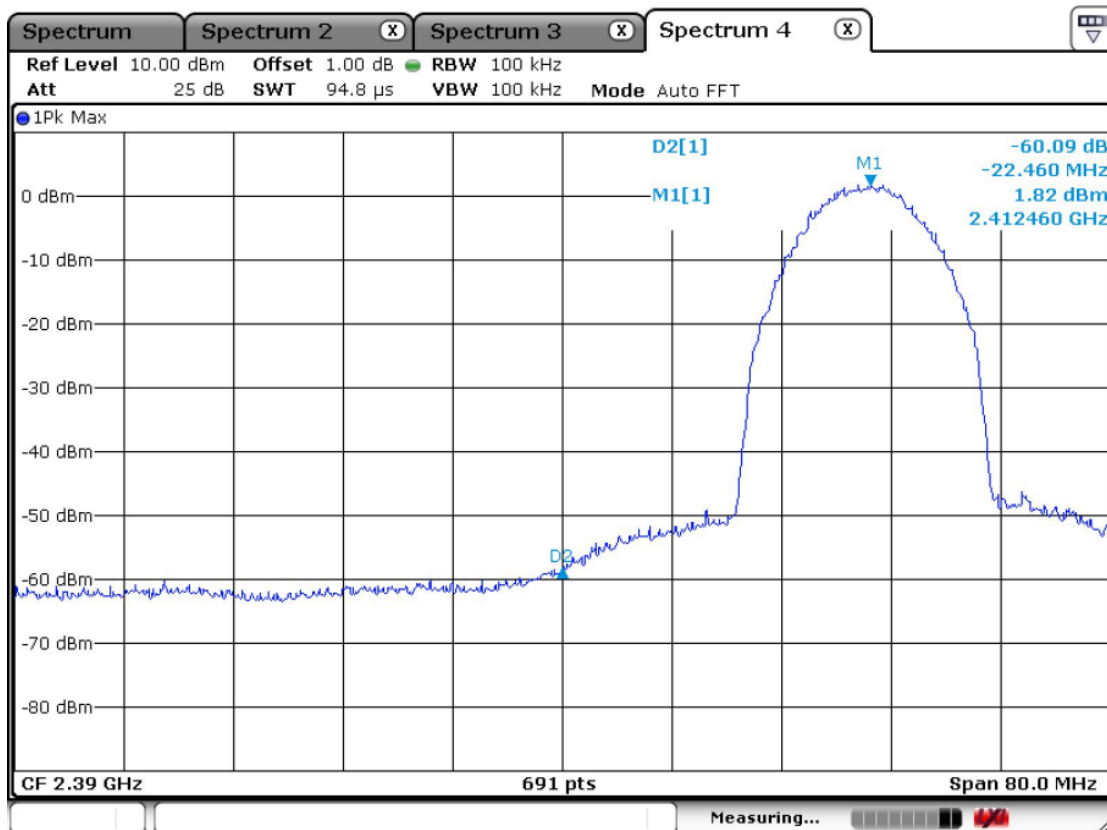
Sweep = auto

Measurement Data: Complies

- All conducted emission in any 100kHz bandwidth outside of the spread spectrum band was at least 20dB lower than the highest inband spectral density. Therefore the applying equipment meets the requirement.
- See next pages for actual measured spectrum plots.

Minimum Standard:	> 20 dBc
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802.11b Band-edge : Conducted Measurements



Band-edges in the restricted band 2310-2390 MHz measurement

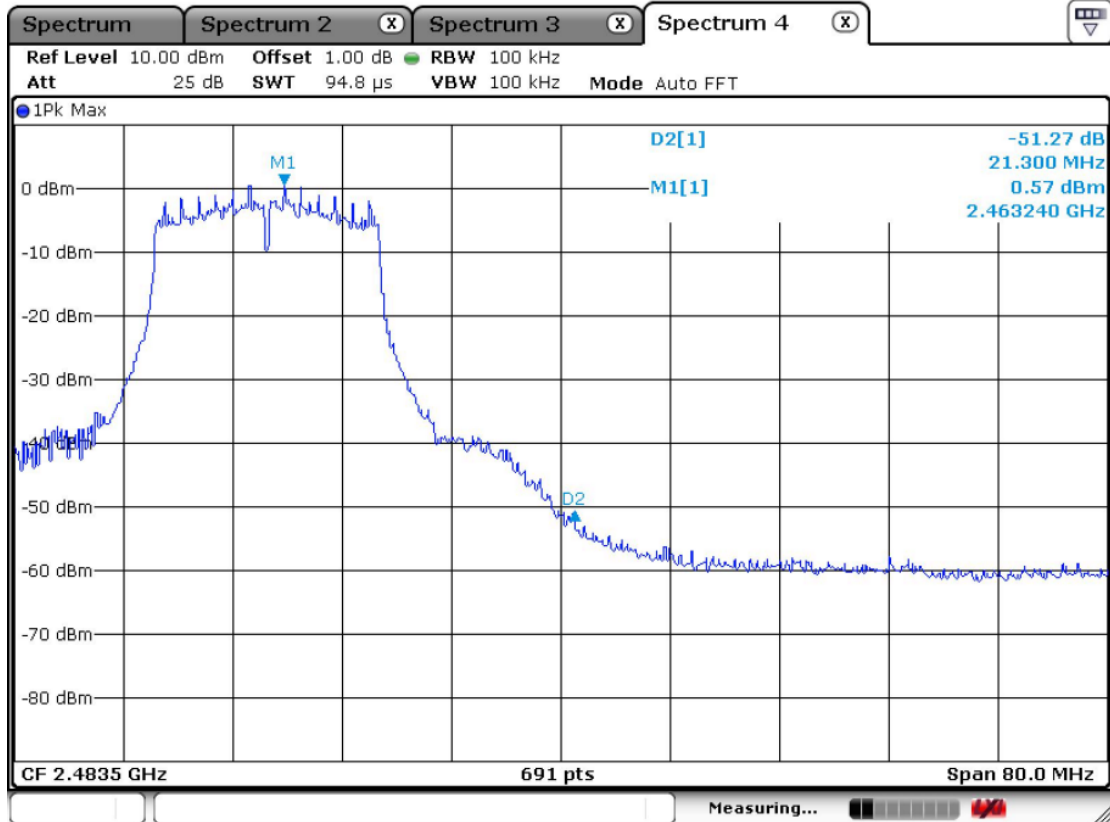
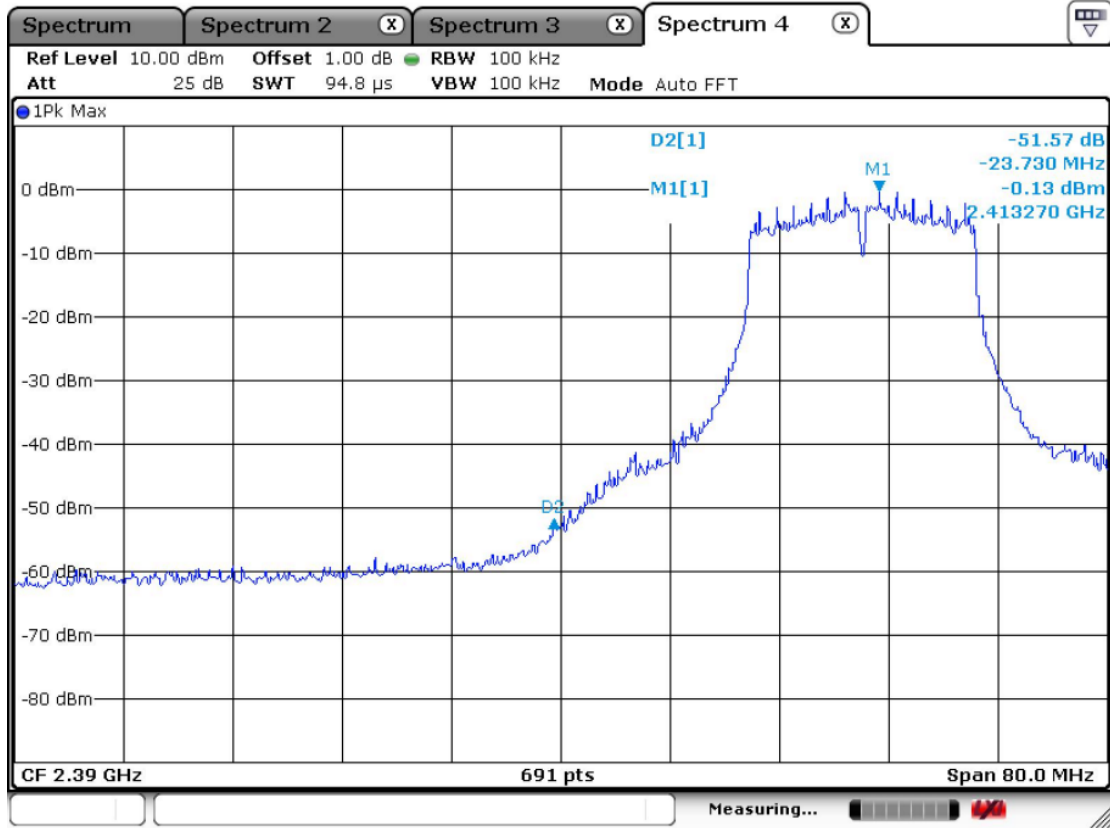
Frequency [MHz]	Reading [dBuV/m]		Pol.	Correction Factor		Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
	AV / Peak			Antenna	Amp. Gain+Cable	AV / Peak		AV / Peak		AV / Peak	
2336.1	34.6	48.2	V	28.2	27.5	54.0	74.0	35.3	48.9	18.7	25.1

Band-edges in the restricted band 2483.5-2500 MHz measurement

Frequency [MHz]	Reading [dBuV/m]		Pol.	Correction Factor		Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
	AV / Peak			Antenna	Amp. Gain+Cable	AV / Peak		AV / Peak		AV / Peak	
2497.7	34.7	48.7	V	28.2	27.5	54.0	74.0	35.4	49.4	18.6	24.6

Note : This EUT was tested in 3 orthogonal positions and the worst-case data was presented

802.11g Band-edge : Conducted Measurements



Band-edges in the restricted band 2310-2390 MHz measurement

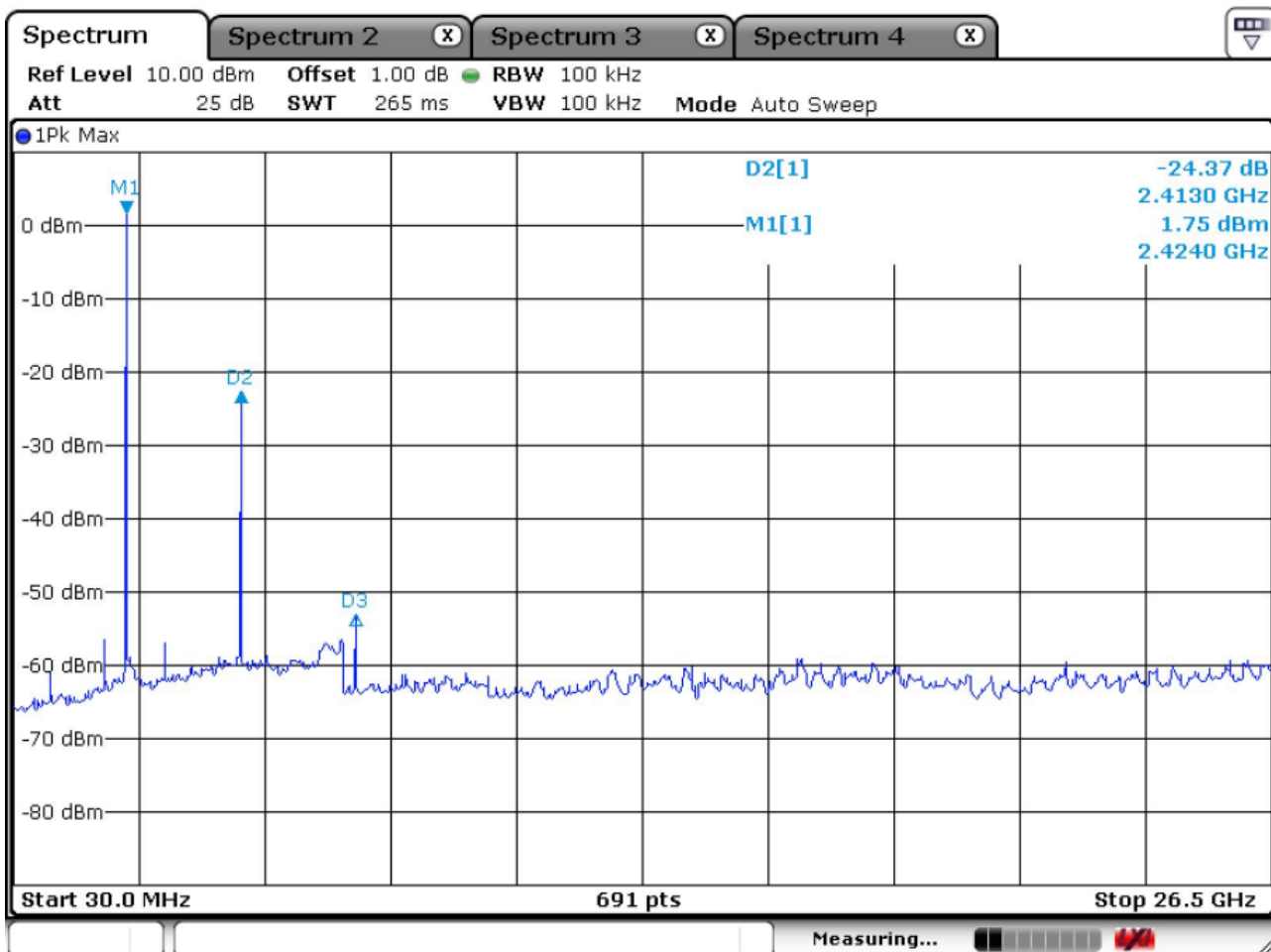
Frequency [MHz]	Reading [dBuV/m]		Pol.	Correction Factor		Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
	AV / Peak			Antenna	Amp. Gain+Cable	AV / Peak		AV / Peak		AV / Peak	
2389.9	34.5	48.0	V	28.2	27.5	54.0	74.0	35.2	48.7	18.8	25.3

Band-edges in the restricted band 2483.5-2500 MHz measurement

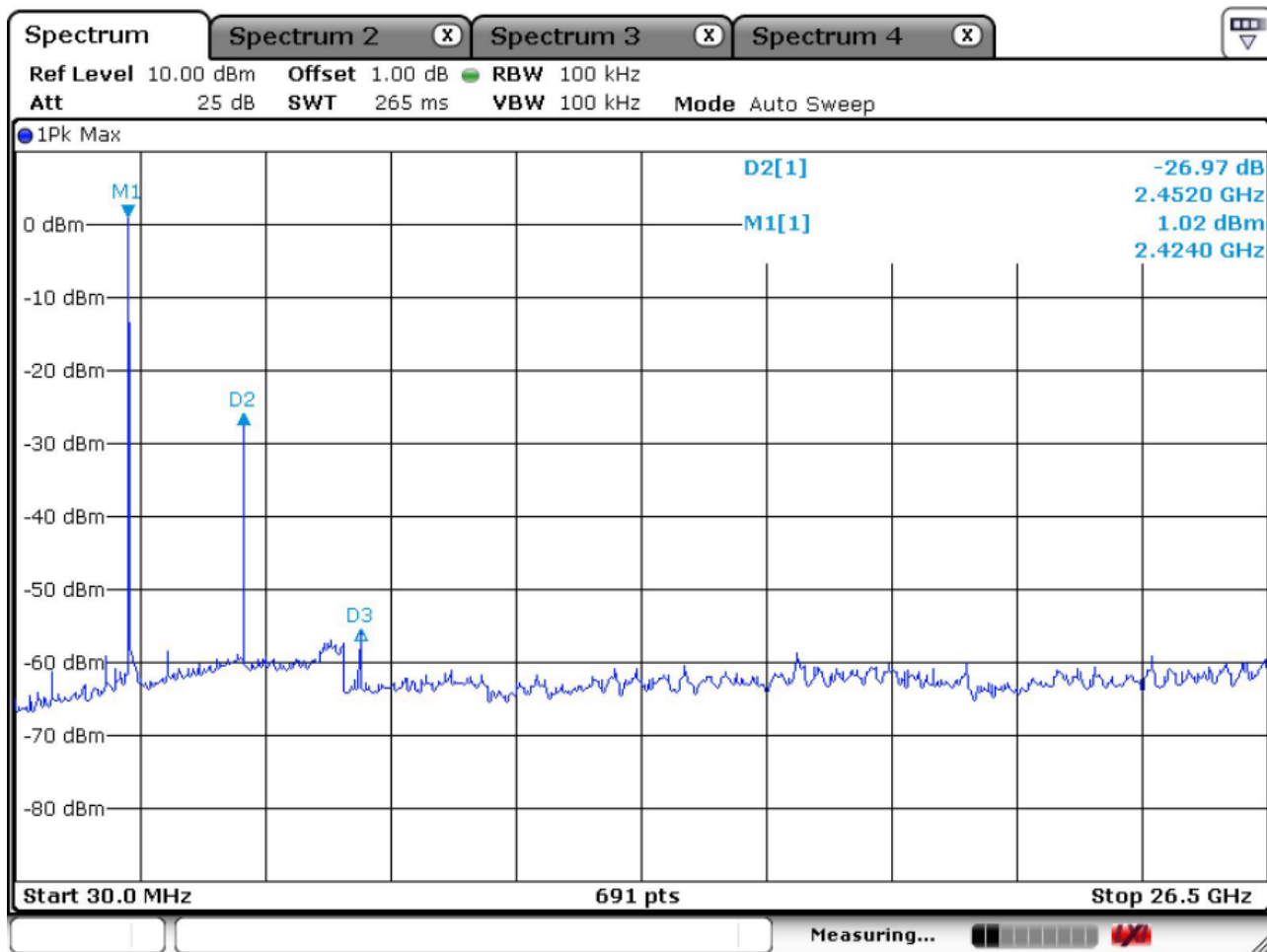
Frequency [MHz]	Reading [dBuV/m]		Pol.	Correction Factor		Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
	AV / Peak			Antenna	Amp. Gain+Cable	AV / Peak		AV / Peak		AV / Peak	
2496.8	33.5	46.6	V	28.2	27.5	54.0	74.0	34.2	47.3	19.8	26.7

Note : This EUT was tested in 3 orthogonal positions and the worst-case data was presented

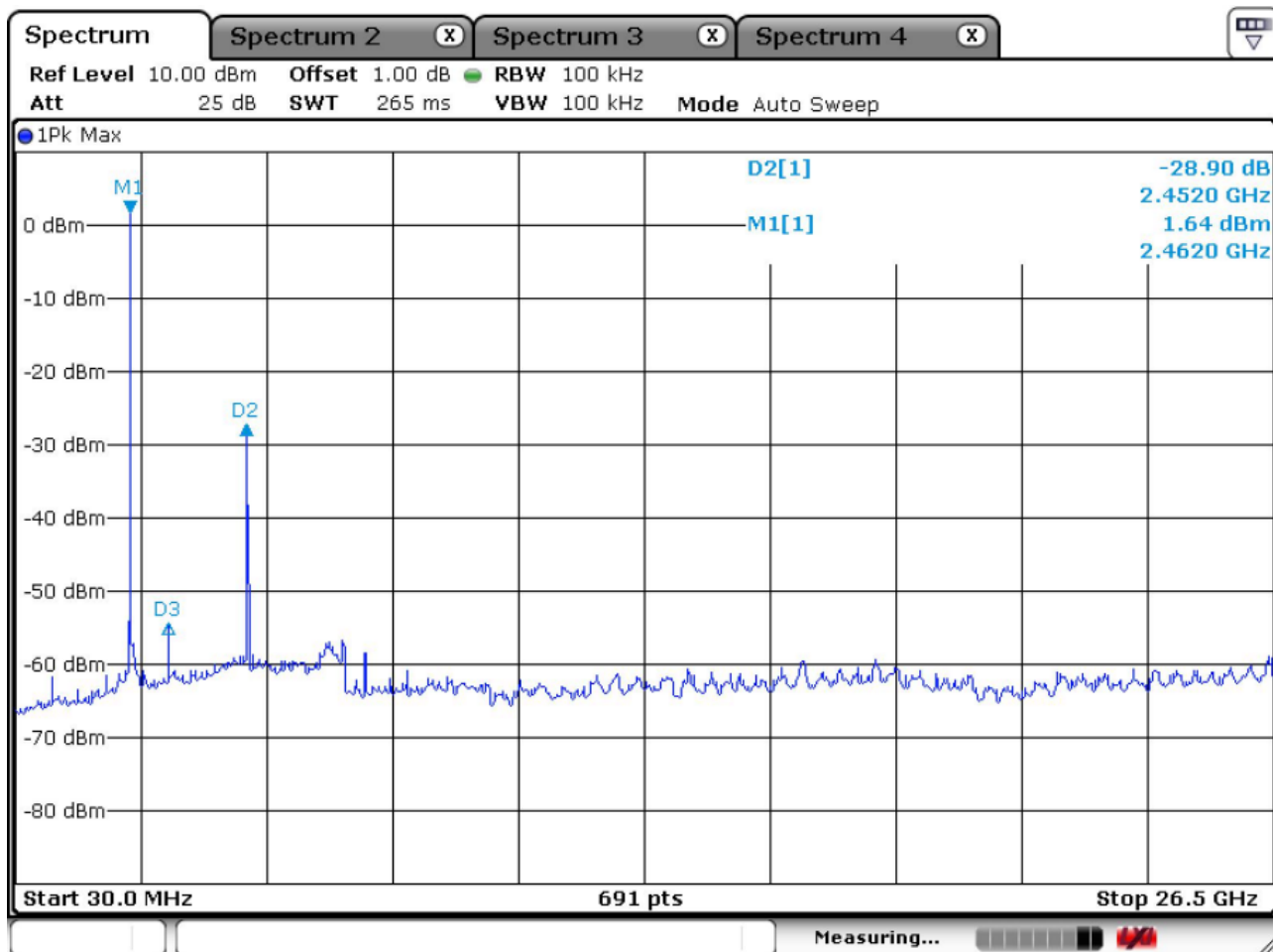
802.11b - Low channel Frequency Range = 30 MHz ~ 10th harmonic.



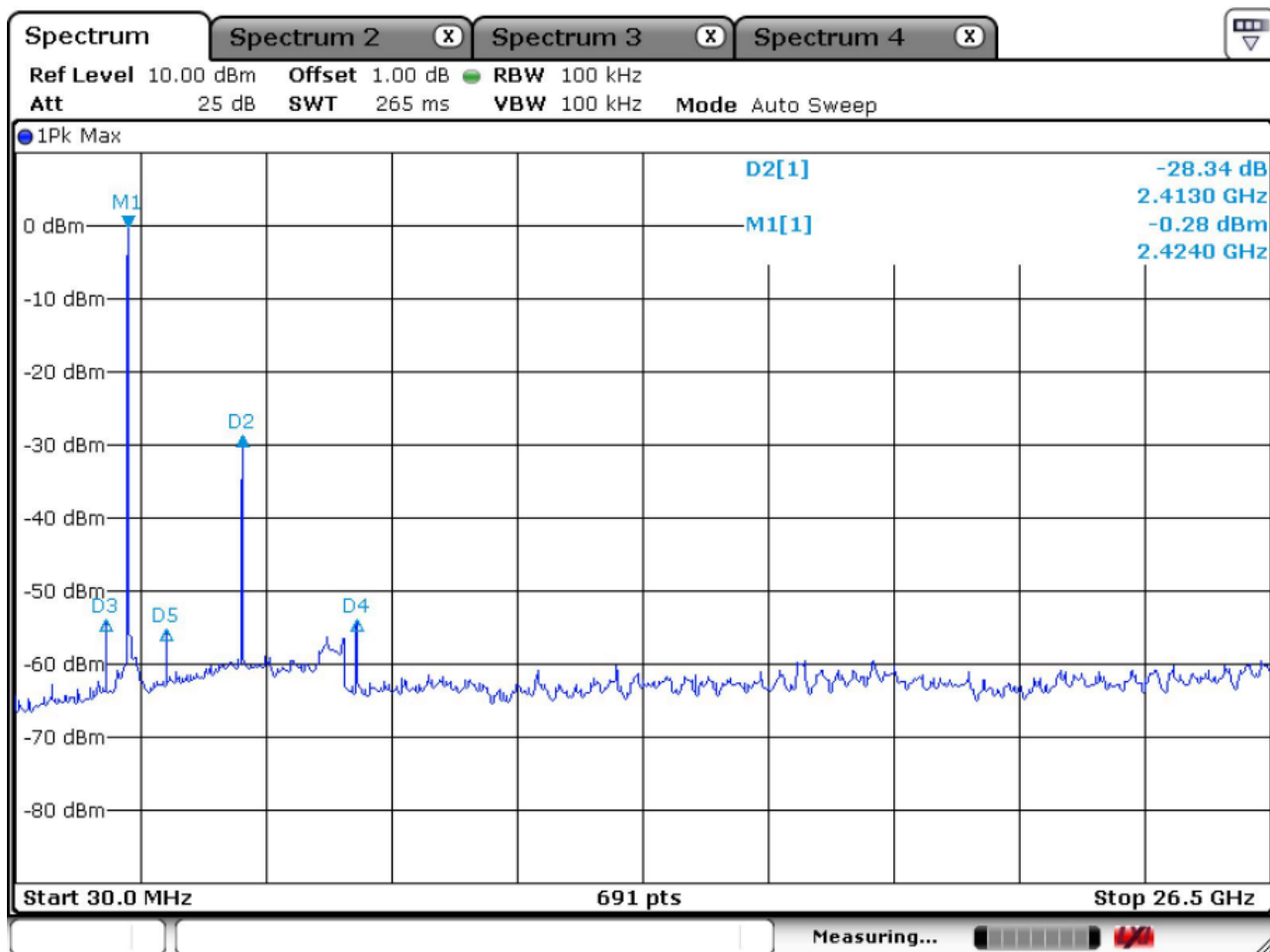
802.11b - Mid channel
Frequency Range = 30 MHz ~ 10th harmonic.



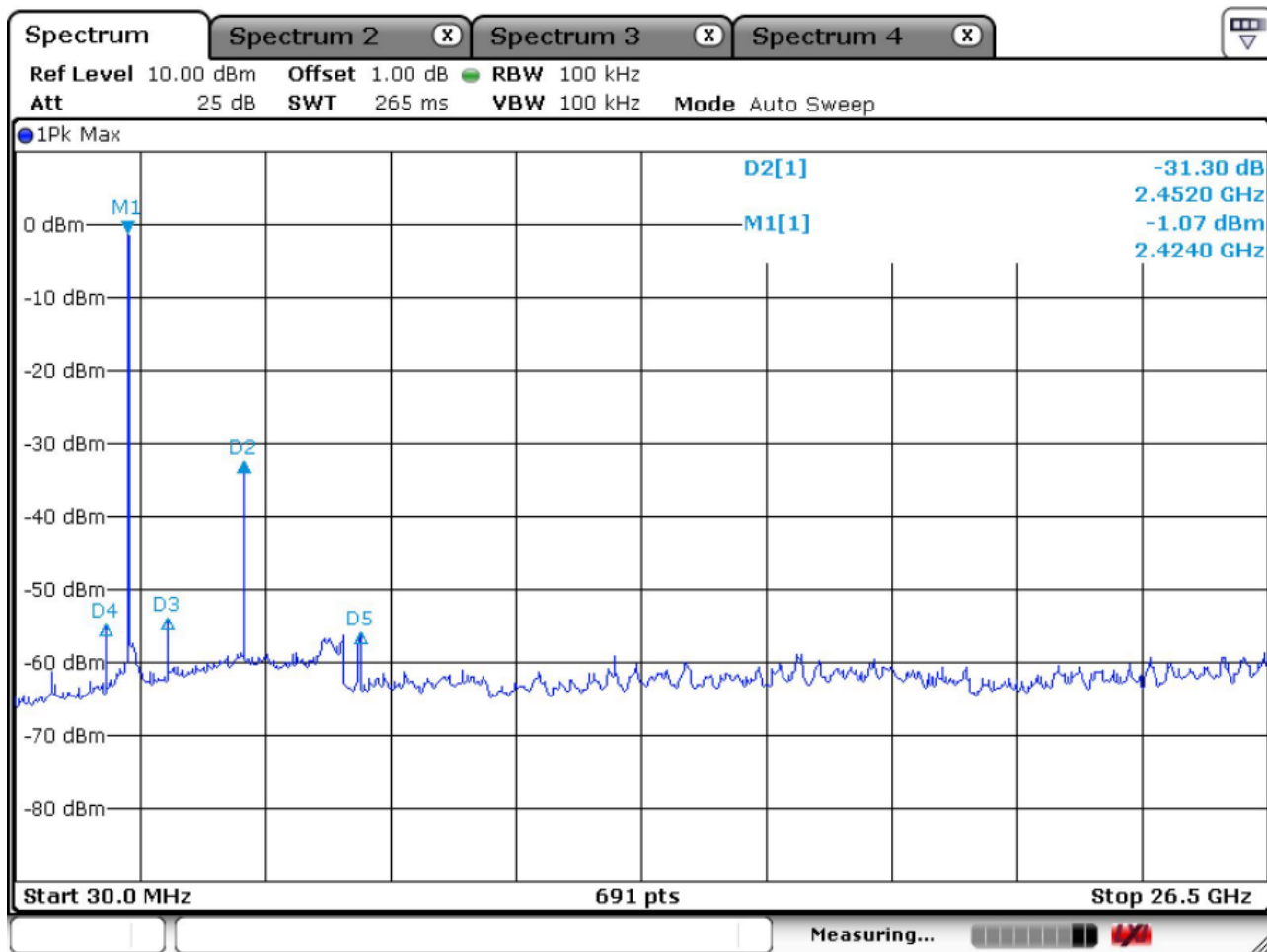
802.11b – High channel Frequency Range = 30 MHz ~ 10th harmonic.



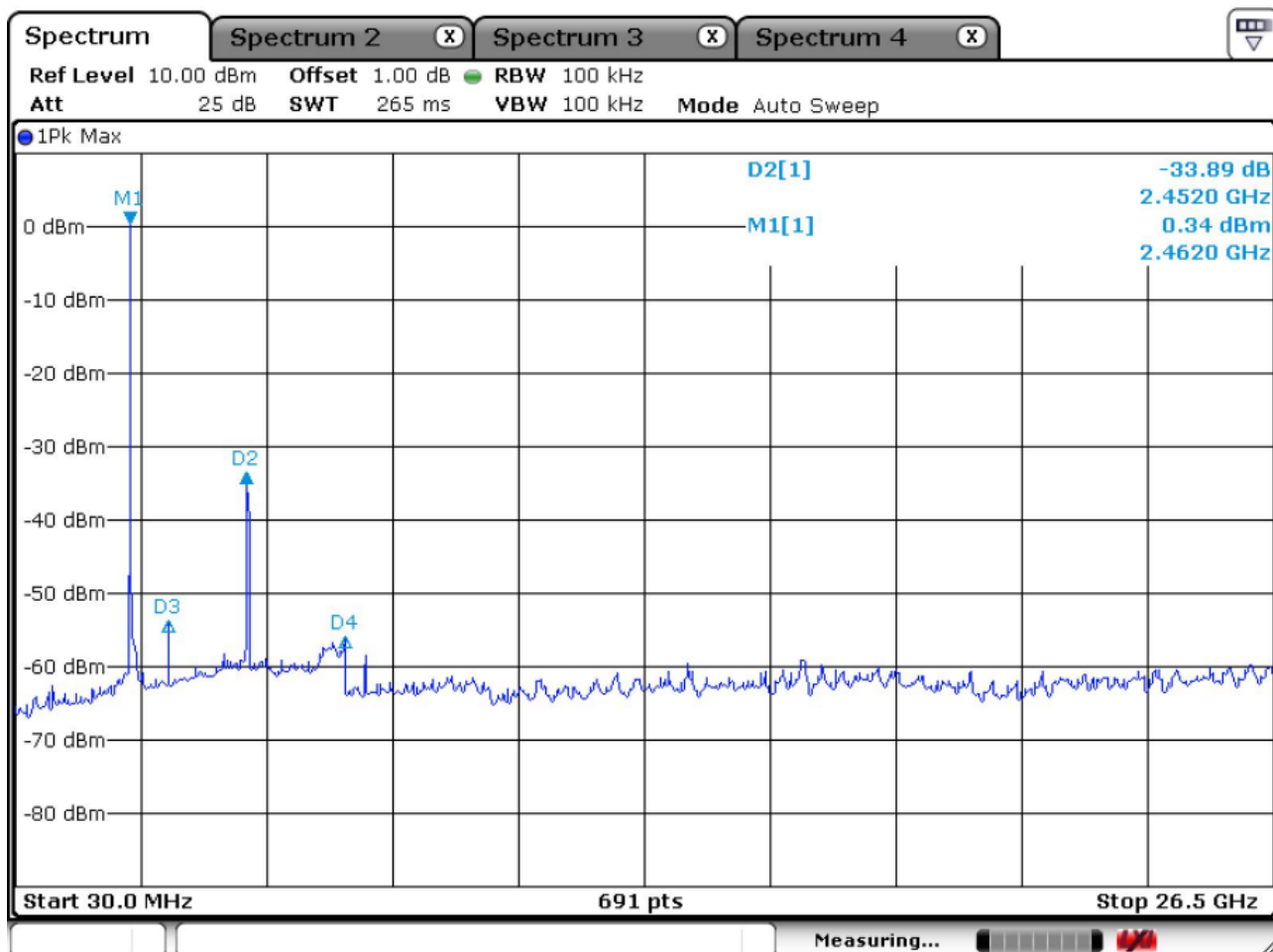
802.11g - Low channel Frequency Range = 30 MHz ~ 10th harmonic.



802.11g - Mid channel
Frequency Range = 30 MHz ~ 10th harmonic.



802.11g – High channel
Frequency Range = 30 MHz ~ 10th harmonic.



3.2.5 Field Strength of Harmonics

Procedure:

* The testing follows TCB Workshop 2012, April and fulfills ANSI C63.4-2003 and the guidelines in ANSI C63.10-2009 test requirement. The EUT was placed on a 0.8m high wooden table inside a shielded enclosure. An antenna was placed near the EUT and measurements of frequencies and amplitudes of field strengths were recorded for reference during final measurements. For final radiated testing, measurements were performed in OATS. Measurements were performed with the EUT oriented in 3 orthogonal axis and rotated 360 degrees to determine worst-case orientation for maximum emissions.

The spectrum analyzer is set to:

Center frequency = the worst channel

Frequency Range = 9 KHz ~ 10th harmonic.

RBW = 120 kHz (9 KHz ~ 1 GHz)

= 1 MHz (1 GHz ~ 10th harmonic)

Span = 100 MHz

Trace = max hold

Peak:VBW \geq RBW

Average:VBW=10Hz

Detector function = Peak and Average

Sweep = auto

Measurement Data: Complies

- See next pages for actual measured data.
- No other emissions were detected at a level greater than 20dB below limit.
- The three antennas were used with this EUT during the Testing.

Minimum Standard: FCC Part 15.109

Frequency (MHz)	Limit (μ V/m) @ 10m
0.009 ~ 0.490	2400/F (kHz) @ 300m
0.490 ~ 1.705	24000/F (kHz) @ 30m
1.705 ~ 30	30 @ 30m
30 ~ 88	90
88 ~ 216	150
216 ~ 960	210
Above 960	300

** Except as provided in 15.209(g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88MHz, 174-216MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g. 15.231 and 15.241.

802.11b Measurement Data: (above 1GHz)

Frequency [MHz]	Reading [dBuV/m]		Pol.	Correction Factor		Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
	AV / Peak			Antenna	Amp. Gain+Cable	AV / Peak		AV / Peak		AV / Peak	
6969.8	36.5	48.5	V	37.1	26.7	54.0	74.0	46.9	58.9	7.1	15.1
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
Frequency [MHz]	Reading [dBuV/m]		Pol.	Correction Factor		Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
	AV / Peak			Antenna	Amp. Gain+Cable	AV / Peak		AV / Peak		AV / Peak	
6972.7	36.4	49.1	V	37.1	26.7	54.0	74.0	46.8	59.5	7.2	14.5
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
Frequency [MHz]	Reading [dBuV/m]		Pol.	Correction Factor		Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
	AV / Peak			Antenna	Amp. Gain+Cable	AV / Peak		AV / Peak		AV / Peak	
6988.9	36.7	50.2	V	37.1	26.7	54.0	74.0	47.1	60.6	6.9	13.4
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

No other emissions were detected at a level greater than 20dB below limit.

802.11b Measurement Data: (9kHz - 30MHz)

Frequency [MHz]	Reading [dBuV/m]		Pol.	Correction Factor		Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
	AV / Peak			Antenna	Amp. Gain+Cable	AV / Peak		AV / Peak		AV / Peak	
-	-	-	-	-	-	-	-	-	-	-	-
No emissions were detected at a level greater than 20dB below limit.											
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

*No emissions were detected at a level greater than 20dB below limit.

802.11g Measurement Data: (above 1GHz)

Frequency [MHz]	Reading [dBuV/m]		Pol.	Correction Factor		Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
	AV / Peak			Antenna	Amp. Gain+Cable	AV / Peak		AV / Peak		AV / Peak	
6959.3	31.9	43.9	V	37.1	26.7	54.0	74.0	42.3	54.3	11.7	19.7
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
Frequency [MHz]	Reading [dBuV/m]		Pol.	Correction Factor		Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
[MHz]	AV / Peak			Antenna	Amp. Gain+Cable	AV / Peak		AV / Peak		AV / Peak	
6974.2	30.4	41.7	V	37.1	26.7	54.0	74.0	40.8	52.1	13.2	21.9
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
Frequency [MHz]	Reading [dBuV/m]		Pol.	Correction Factor		Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
[MHz]	AV / Peak			Antenna	Amp. Gain+Cable	AV / Peak		AV / Peak		AV / Peak	
6981.7	31.3	42.5	V	37.1	26.7	54.0	74.0	41.7	52.9	12.3	21.1
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

No other emissions were detected at a level greater than 20dB below limit.

802.11g Measurement Data: (9kHz - 30MHz)

Frequency [MHz]	Reading [dBuV/m]		Pol.	Correction Factor		Limits [dBuV/m]		Result [dBuV/m]		Margin [dB]	
	AV / Peak			Antenna	Amp. Gain+Cable	AV / Peak		AV / Peak		AV / Peak	
-	-	-	-	-	-	-	-	-	-	-	-
No emissions were detected at a level greater than 20dB below limit.											
-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-

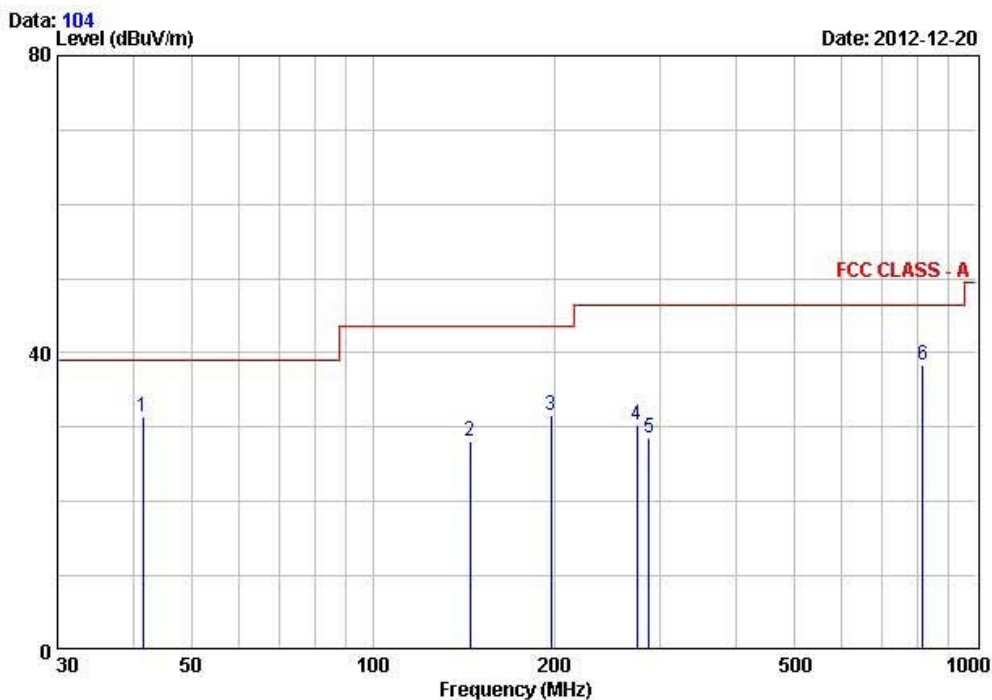
*No emissions were detected at a level greater than 20dB below limit.

Radiated Emissions –Wi-Fi mode



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EUT/Model No.: AT911 TEST MODE: Wi-Fi mode
Temp Humi : 1 / 26 Tested by: PARK.H.W



Freq	Reading	C.F	Result	Limit	Margin	Height	Angle	Polarity
MHz	dBuV/m	dB/m	dBuV/m	QP	dB	cm	deg	
1	41.54	47.54	-16.10	31.44	39.00	7.56	100	76 VERTICAL
2	144.78	41.89	-13.74	28.15	43.50	15.35	400	55 HORIZONTAL
3	197.54	47.70	-16.04	31.66	43.50	11.84	100	89 VERTICAL
4	274.14	42.80	-12.53	30.27	46.40	16.13	100	87 VERTICAL
5	287.45	40.51	-12.00	28.51	46.40	17.89	369	294 HORIZONTAL
6	815.81	37.64	0.69	38.33	46.40	8.07	138	27 VERTICAL

Remarks: C.F (Correction Factor) = Antenna factor + Cable loss - Preamp gain

3.2.6 AC Conducted Emissions

Procedure:

The conducted emissions are measured in the shielded room with a spectrum analyzer in peak hold. While the measurement, EUT had its hopping function disabled at the middle channels in line with Section 15.31(m). Emissions closest to the limit are measured in the quasi-peak mode (QP) with the tuned receiver using a bandwidth of 9 kHz. The emissions are maximized further by cable manipulation and Exerciser operation. The highest emissions relative to the limit are listed.

Measurement Data: Complies

- See next pages for actual measured spectrum plots.
- No emissions were detected at a level greater than 20dB below limit.

-

Minimum Standard: FCC Part 15.107

Frequency Range (MHz)	Conducted Limit (dBuV)	
	Quasi-Peak	Average
0.15 ~ 0.5	79 dBuV	66 dBuV
0.5 ~ 30	73 dBuV	60 dBuV

- * Decreases with the logarithm of the frequency

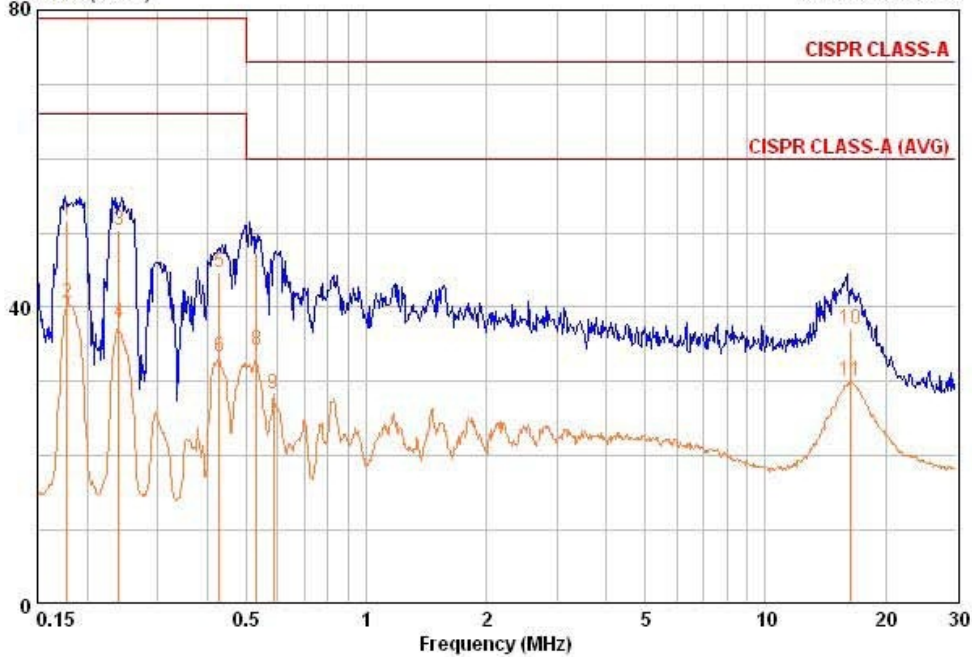
Radiated Emissions – Wi-Fi mode - LINE



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EUT / Model No. : AT911 Phase : LINE
 Test Mode : Wi-Fi mode Test Power : 120 / 60
 Temp./Humi. : 19 / 45 Test Engineer : PARK H W

Data: 106 File: C:\Conducted Data\2012\LTA_Conduction_1212-1.EMI (106) Date: 12-14-2012



Freq MHz	RD		C.F	Result		Limit		Margin	
	QP dBuV	AV dBuV		QP dBuV	AV dBuV	QP dBuV	AV dBuV	QP dB	AV dB
0.178	42.05	31.05	9.60	51.65	40.65	79.00	66.00	27.35	25.35
0.240	40.76	28.36	9.59	50.34	37.94	79.00	66.00	28.66	28.06
0.428	35.16	23.76	9.62	44.78	33.38	79.00	66.00	34.22	32.62
0.530	37.76	24.66	9.62	47.38	34.28	73.00	60.00	25.62	25.72
0.585	---	18.68	9.61	0.00	28.29	0.00	60.00	0.00	31.71
16.380	27.11	20.21	9.89	37.00	30.10	73.00	60.00	36.00	29.90

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

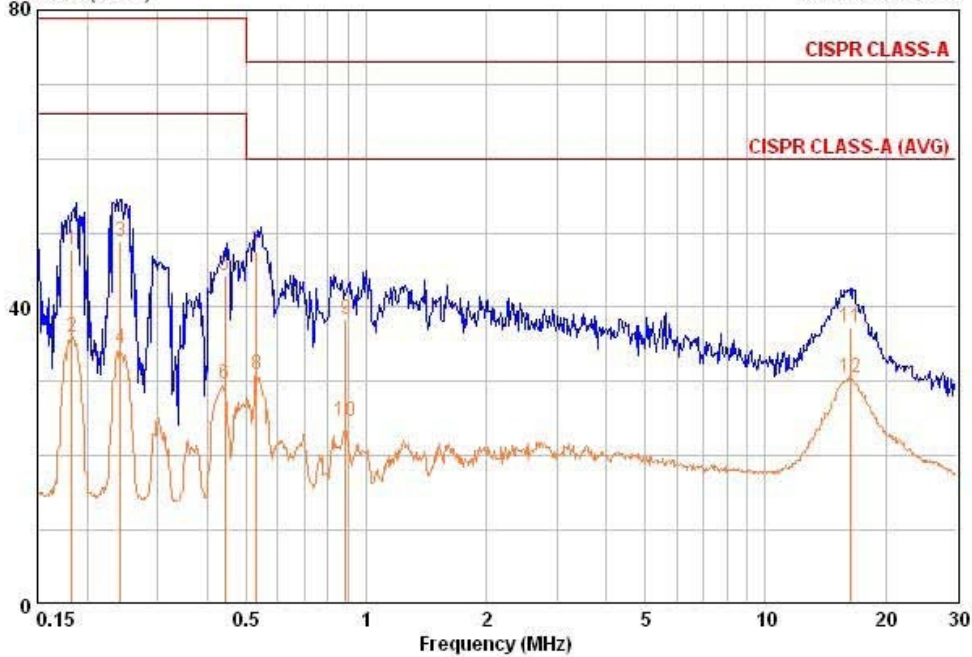
Radiated Emissions – Wi-Fi mode - NEUTRAL



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EUT / Model No. : AT911 Phase : NEUTRAL
 Test Mode : Wi-Fi mode Test Power : 120 / 60
 Temp./Humi. : 19 / 45 Test Engineer : PARK H W

Data: 108 File: C:\Conducted Data\2012\LTA_Conduction_1212-1.EMI (108) Date: 12-14-2012



Freq MHz	RD	RD	C.F	Result	Result	Limit	Limit	Margin	Margin
	QP	AV		QP	AV	QP	AV		QP
	dBuV	dBuV	dB	dBuV	dBuV	dBuV	dBuV	dB	dB
0.183	38.25	26.45	9.59	47.84	36.04	79.00	66.00	31.16	29.96
0.242	39.26	24.86	9.58	48.84	34.44	79.00	66.00	30.16	31.56
0.443	34.56	20.06	9.62	44.18	29.68	79.00	66.00	34.82	36.32
0.530	37.96	21.26	9.62	47.58	30.88	73.00	60.00	25.42	29.12
0.889	28.77	14.97	9.58	38.35	24.55	73.00	60.00	34.65	35.45
16.390	27.31	20.51	9.96	37.26	30.46	73.00	60.00	35.74	29.54

Remarks: C.F (Correction Factor) = Insertion loss + Cable loss

APPENDIX

TEST EQUIPMENT USED FOR TESTS

	Description	Model No.	Serial No.	Manufacturer	Interval	Last Cal. Date
1	Spectrum Analyzer (~30GHz)	FSV-30	100757	R&S	1 year	2013-01-15
2	Spectrum Analyzer (~2.9GHz)	8594E	3649A03649	HP	2 year	2012-03-26
3	Signal Generator (~3.2GHz)	8648C	3623A02597	HP	1 year	2012-03-26
4	Signal Generator (1~20GHz)	83711B	US34490456	HP	1 year	2012-03-26
5	Attenuator (3dB)	8491A	37822	HP	2 year	2012-09-22
6	Attenuator (10dB)	8491A	63196	HP	2 year	2012-09-22
7	Test Receiver (~30MHz)	ESHS10	828404/009	R&S	1 year	2012-03-26
8	EMI Test Receiver (~7GHz)	ESCI7	100722	R&S	1 year	2012-09-22
9	RF Amplifier (~1.3GHz)	8447D	2439A09058	HP	2 year	2012-09-22
10	RF Amplifier (1~18GHz)	8449B	3008A02126	HP	2 year	2012-03-26
11	Horn Antenna (1~18GHz)	BBHA 9120D	9120D122	SCHWARZBECK	2 year	2012-12-21
12	Horn Antenna (18 ~ 40GHz)	SAS-574	154	Schwarzbeck	2 year	2012-03-15
13	Horn Antenna (18 ~ 40GHz)	SAS-574	155	Schwarzbeck	2 year	2012-03-15
14	TRILOG Antenna	VULB 9160	9160-3172	SCHWARZBECK	2 year	2012-09-20
15	Hygro-Thermograph	THB-36	0041557-01	ISUZU	1 year	2012-09-26
16	Splitter (SMA)	ZFSC-2-2500	SF617800326	Mini-Circuits	-	-
17	Power Divider	11636A	6243	HP	2 year	2012-09-22
18	DC Power Supply	6622A	3448A03079	HP	-	-
19	Frequency Counter	5342A	2826A12411	HP	1 year	2012-03-26
20	Power Meter	EPM-441A	GB32481702	HP	1 year	2012-03-26
21	Power Sensor	8481A	US41030291	HP	1 year	2012-09-22
22	Audio Analyzer	8903B	3729A18901	HP	1 year	2012-09-22
23	Modulation Analyzer	8901B	3749A05878	HP	1 year	2012-09-22
24	TEMP & HUMIDITY Chamber	YJ-500	LTAS06041	JinYoung Tech	1 year	2012-09-22
25	Stop Watch	HS-3	601Q09R	CASIO	2 year	2012-03-26
26	LISN	ENV216	100408	R&S	1 year	2012-09-22
27	UNIVERSAL RADIO COMMUNICATION TESTER	CMU200	106243	R&S	2 year	2012-06-27
28	Highpass Filter	WHKX1.5/15G-10SS	74	Wainwright Instruments	-	-
29	Highpass Filter	WHKX3.0/18G-10SS	118	Wainwright Instruments	-	-
30	Active Loop Antenna	FMZB 1519	1519-031	SCHWARZBECK	1 year	2012-12-14