

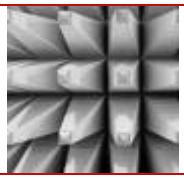

CETECOM™
CETECOM ICT Services
consulting - testing - certification

TEST REPORT

Test report no.: 1-5842/13-01-14

ilac-MRA DAkkS Deutsche Akkreditierungsstelle D-PL-12076-01-01

Testing laboratory

CETECOM ICT Services GmbH
Untertuerkheimer Strasse 6 – 10
66117 Saarbruecken / Germany
Phone: + 49 681 5 98 - 0
Fax: + 49 681 5 98 - 9075
Internet: http://www.cetecom.com
e-mail: ict@cetecom.com

Accredited Testing Laboratory:
The testing laboratory (area of testing) is accredited according to DIN EN ISO/IEC 17025 (2005) by the Deutsche Akkreditierungsstelle GmbH (DAkkS)
The accreditation is valid for the scope of testing procedures as stated in the accreditation certificate with the registration number: D-PL-12076-01-01
Area of Testing: Radio/Satellite Communications

Applicant

Philips Medizin Systeme Böblingen GmbH
Hewlett-Packard-Strasse 2
71034 Böblingen / GERMANY
Fax: +49 7031 463-2442
Contact: Markus Stacha
e-mail: markus.stacha@philips.com
Phone: +49 7031 463-2840

Manufacturer

Philips Medizin Systeme Böblingen GmbH
Hewlett-Packard-Strasse 2
71034 Böblingen / GERMANY

Test standard/s

47 CFR Part 15	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices
RSS - 210 Issue 8	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

For further applied test standards please refer to section 3 of this test report.

Test Item

Kind of test item:	**WLAN Module IEEE 802.11 a/b/g/n**
Model name:	**WLANBV2-A**
FCC ID:	**PQC-WLANBV2**
IC:	**3549C-WLANBV2**
Frequency:	5150 MHz to 5250 MHz; 5250 MHz to 5350 MHz, 5470 MHz to 5725 MHz
Technology tested:	WLAN
Antenna:	4 different external antennas
Power Supply:	3.3V DC
Temperature Range:	-10°C to 70°C

This test report is electronically signed and valid without handwriting signature. For verification of the electronic signatures, the public keys can be requested at the testing laboratory.

Test report authorised:

p.o.

Stefan Bös
Senior Testing Manager

Test performed:

cn=Christoph Schneider, o=CETECOM ICT Services GmbH, ou=SND-120402, email=christoph.schneider@cetecom.com, c=DE
2013.08.08 11:14:58 +02'00'

Christoph Schneider
Expert

1 Table of contents

2 General information

2.1 Notes and disclaimer

The test results of this test report relate exclusively to the test item specified in this test report. CETECOM ICT Services GmbH does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item.
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2.2 Application details

Date of receipt of order:	2013-02-01
Date of receipt of test item:	2013-02-04
Start of test:	2013-04-22
End of test:	2013-07-25
Person(s) present during the test:	-/-

3 Test standard/s

Test standard	Date	Test standard description
47 CFR Part 15	01.10.2012	Title 47 of the Code of Federal Regulations; Chapter I Part 15 - Radio frequency devices
RSS - 210 Issue 8	01.12.2010	Spectrum Management and Telecommunications - Radio Standards Specification Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

4 Test environment

Temperature:	T_{nom}	+22	°C during room temperature tests
	T_{max}	+55	°C during high temperature tests
	T_{min}	-20	°C during low temperature tests
Relative humidity content:		52 %	
Barometric pressure:		not relevant for this kind of testing	
Power supply:	V_{nom}	3.3 V	DC
	V_{max}	5.5 V	
	V_{min}	4.5 V	

5 Test item

Kind of test item	**:**	**WLAN Module IEEE 802.11 a/b/g/n**
Type identification	**:**	**WLANBV2-A**
S/N serial number	**:**	**Radiated sample: 4DF7B4** **Conducted sample: 4DF75A**
HW hardware status	**:**	**PW100120BA**
SW software status	**:**	**3.2.0.137 api 3**
Frequency band [MHz]	**:**	**5150 MHz to 5250 MHz; 5250 MHz to 5350 MHz,** **5470 MHz to 5725 MHz**
Type of radio transmission **Use of frequency spectrum**	**:** **:**	**OFDM**
Type of modulation	**:**	**QPSK, 16-QAM, 64-QAM**
Number of channels	**:**	**19**
Antenna	**:**	**4 different external antennas:** **Ant M3002-66494** **Ant 453564154611** **Ant 453564175981** **Ant 453564271931**
Power supply	**:**	**3.3 V DC**
Temperature range	**:**	**-10°C to 70°C**

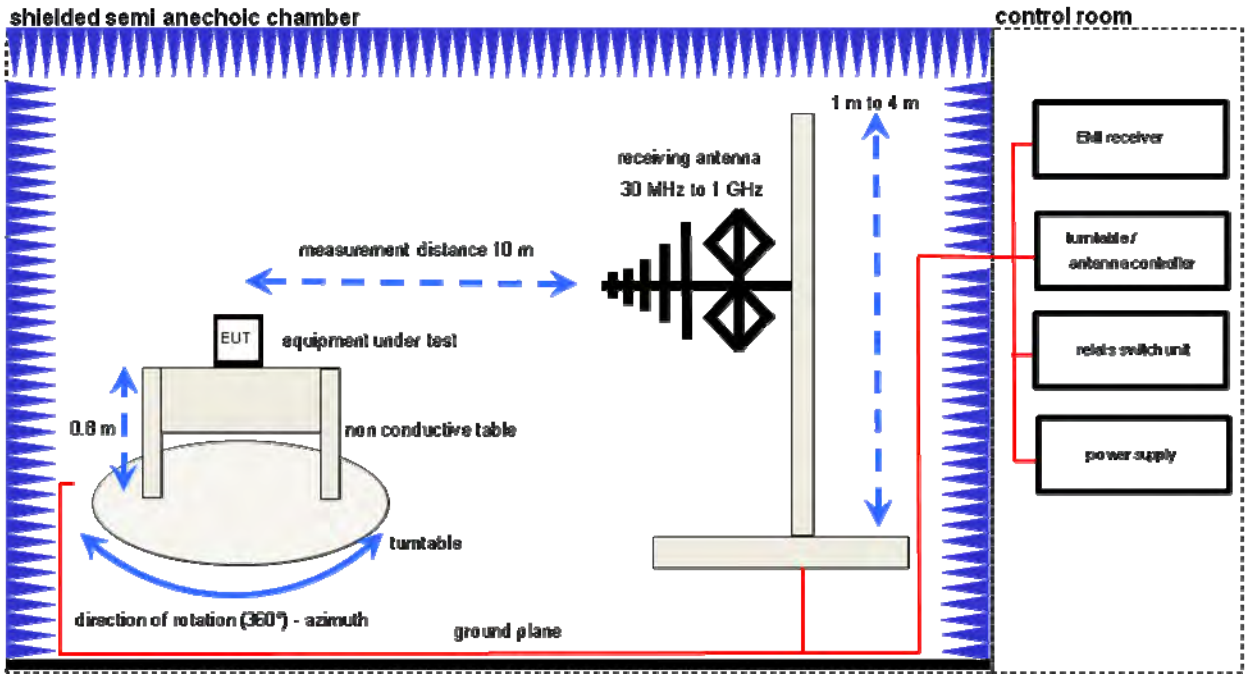
6 Test laboratories sub-contracted

None

7 Description of the test setup

7.1 Radiated measurements chamber F

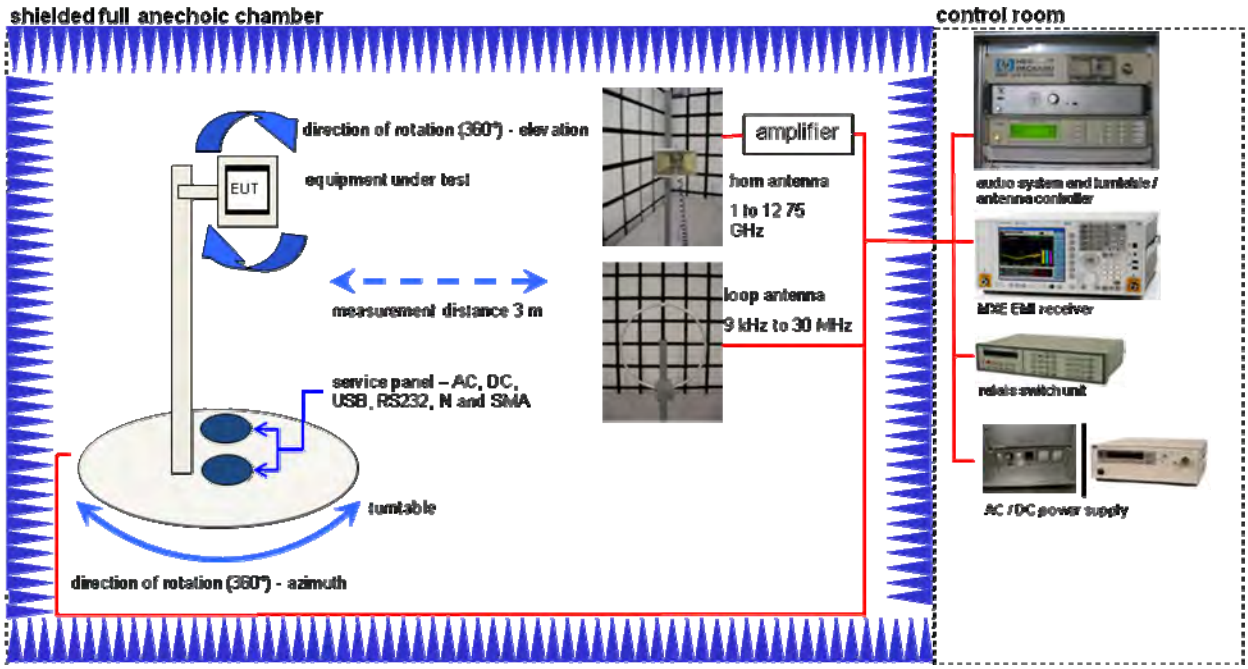
The radiated measurements are performed in vertical and horizontal plane in the frequency range from 9 kHz to 1 GHz in semi-anechoic chambers. The EUT is positioned on a non-conductive support with a height of 0.80 m above a conductive ground plane that covers the whole chamber. The receiving antennas are confirmed with specifications ANSI C63. These antennas can be moved over the height range between 1.0 m and 4.0 m in order to search for maximum field strength emitted from EUT. The measurement distances between EUT and receiving antennas are indicated in the test setups for the various frequency ranges. For each measurement, the EUT is rotated in all three axes until the maximum field strength is received. The wanted and unwanted emissions are received by spectrum analysers where the detector modes and resolution bandwidths over various frequency ranges are set according to requirement ANSI C63.



Equipment table:

Equipment	Type	Manufacturer	Serial No.	INV. No Cetecom
Switch-Unit	3488A	HP Meßtechnik	2719A14505	300000368
DC power supply, 60Vdc, 50A, 1200 W	6032A	HP Meßtechnik	2920A04466	300000580
EMI Test Receiver	ESCI 3	R&S	100083	300003312
Amplifier	JS42-00502650-28-5A	MITEQ	1084532	300003379
Antenna Tower	Model 2175	ETS-LINDGREN	64762	300003745
Positioning Controller	Model 2090	ETS-LINDGREN	64672	300003746
Turntable Interface-Box	Model 105637	ETS-LINDGREN	44583	300003747
TRILOG Broadband Test-Antenna 30 MHz - 3 GHz	VULB9163	Schwarzbeck	295	300003787

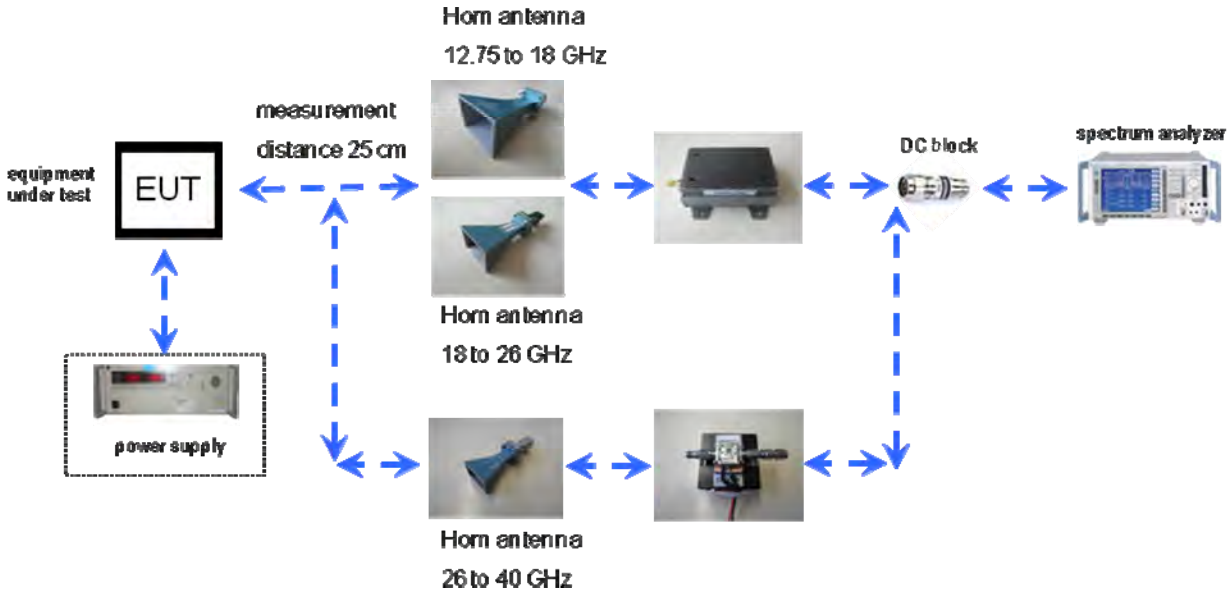
7.2 Radiated measurements chamber C



Equipment table:

Equipment	Type	Manufacturer	Serial No.	INV. No Cetecom
MXE EMI Receiver 20 Hz bis 26,5 GHz	N9038A	Agilent Technologies	MY51210197	300004405
Highpass Filter	WHKX7.0/18G-8SS	Wainwright	18	300003789
Double-Ridged Waveguide Horn Antenna 1-18.0GHz	3115	EMCO	8812-3088	300001032
Active Loop Antenna	6502	EMCO	2210	300001015
Anechoic chamber	FAC 3/5m	MWB / TDK	87400/02	300000996
Switch / Control Unit	3488A	HP Meßtechnik	*	300000199
Switch / Control Unit	3488A	HP Meßtechnik	2719A15013	300001156
Isolating Transformer	MPL IEC625 Bus Regeltrenntravo	Erfi	91350	300001155
Three-Way Power Splitter, 50 Ohm	11850C	HP Meßtechnik		300000997
Amplifier	js42-00502650-28-5a	Parzich GMBH	928979	300003143

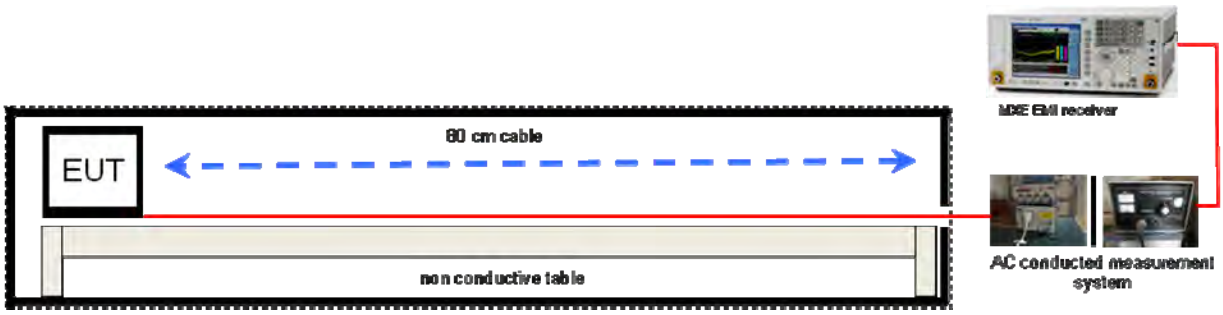
7.3 Radiated measurements 12.75 GHz to 40 GHz



Equipment table:

Equipment	Type	Manufacturer	Serial No.	INV. No Cetecom
Std. Gain Horn Antenna 12.4 to 18.0 GHz	639	Narda		300000786
Std. Gain Horn Antenna 18.0 to 26.5 GHz	638	Narda		300000486
Microwave System Amplifier, 0.5-26.5 GHz	83017A	HP Meßtechnik	00419	300002268
Std. Gain Horn Antenna 26.5-40.0 GHz	V637	Narda	7911	300001751
Broadband Low Noise Amplifier 18-50 GHz	CBL18503070-XX	CERNEX	19338	300004273
Spectrum Analyzer 20 Hz - 50 GHz	FSU50	R&S	200012	300003443
Signal Analyzer 40 GHz	FSV40	R&S	101042	300004517

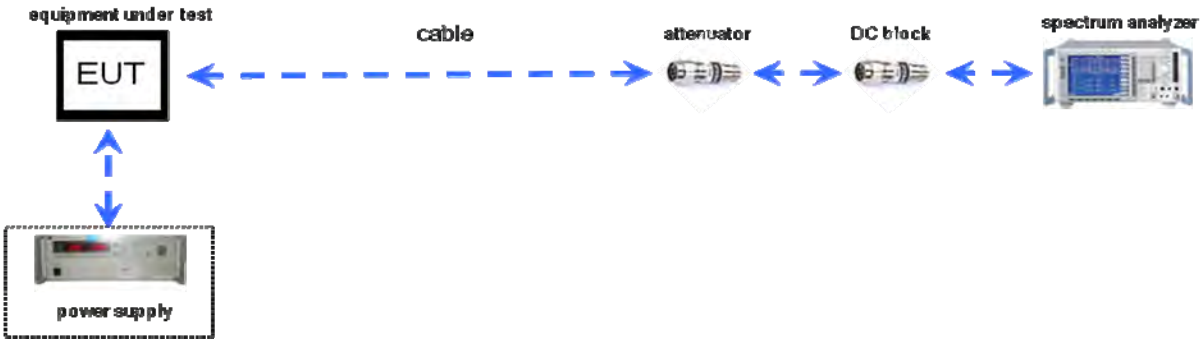
7.4 AC conducted



Equipment table:

Equipment	Type	Manufacturer	Serial No.	INV. No Cetecom
MXE EMI Receiver 20 Hz bis 26,5 GHz	N9038A	Agilent Technologies	MY51210197	300004405
Isolating Transformer	MPL IEC625 Bus Regeltrenntravo	Erfi	91350	300001155
Switch / Control Unit	3488A	HP Meßtechnik	*	300000199
Switch / Control Unit	3488A	HP Meßtechnik	2719A15013	300001168
Artificial Mains 9 kHz to 30 MHz	ESH3-Z5	R&S	828576/020	300001210

7.5 Conducted measurements



Equipment table:

Equipment	Type	Manufacturer	Serial No.	INV. No Cetecom
Signal Analyzer 40 GHz	FSV40	R&S	101042	300004517

8 Summary of measurement results

☒ **No deviations from the technical specifications were ascertained**

☐ There were deviations from the technical specifications ascertained

TC Identifier	Description	Verdict	Date	Remark
RF-Testing	CFR Part 15 RSS 210, Issue 8, Annex 9	Passed	2013-08-08	-/-

Test specification clause	Test case	Temperature conditions	Power source voltages	Pass	Fail	NA	NP	Results (max.)
-/-	Gain	Nominal	Nominal	-/-	-/-	-/-	-/-	No passed / fail criteria! Neccessary information for conducted measurements!
§15.407(a) RSS-210	Maximum output power (conducted & radiated)	Nominal	Nominal	☒	☐	☐	☐	complies
§15.407(a) RSS-210	Power spectral density	Nominal	Nominal	☒	☐	☐	☐	complies
§15.407(a) RSS-210	Spectrum bandwidth 26dB bandwidth	Nominal	Nominal	☒	☐	☐	☐	complies
§15.407(a) RSS-210	Peak excursion measurements	Nominal	Nominal	☒	☐	☐	☐	complies
§15.205 RSS-210	Band edge compliance radiated	Nominal	Nominal	☒	☐	☐	☐	complies
§15.407(b) RSS-210	TX spurious emissions radiated	Nominal	Nominal	☒	☐	☐	☐	complies
§15.109 RSS-Gen	RX spurious emissions radiated	Nominal	Nominal	☒	☐	☐	☐	complies
§15.209(a) RSS-Gen	Spurious emissions radiated < 30 MHz	Nominal	Nominal	☒	☐	☐	☐	complies
§15.107(a)	Spurious emissions conducted emissions < 30 MHz	Nominal	Nominal	☒	☐	☐	☐	complies

Note: NA = Not Applicable; NP = Not Performed

9 Additional comments

Reference documents: None

Special test descriptions: Four different antennas used. See Annex B for details.
The device was configured for Testmode and the individual power settings with the following commands:

A-Mode:
athtestcmd -iwlan0 --tx tx100 --txfreq 5180 --txrate 4 --txpwr 14
athtestcmd -iwlan0 --tx tx100 --txfreq 5320 --txrate 4 --txpwr 14
athtestcmd -iwlan0 --tx tx100 --txfreq 5500 --txrate 4 --txpwr 14
athtestcmd -iwlan0 --tx tx100 --txfreq 5700 --txrate 4 --txpwr 14

HT20-Mode:
athtestcmd -iwlan0 --tx tx100 --txfreq 5180 --txrate 12 --txpwr 13
athtestcmd -iwlan0 --tx tx100 --txfreq 5320 --txrate 12 --txpwr 14
athtestcmd -iwlan0 --tx tx100 --txfreq 5500 --txrate 12 --txpwr 14
athtestcmd -iwlan0 --tx tx100 --txfreq 5700 --txrate 12 --txpwr 14

HT40-Mode:
athtestcmd -iwlan0 --tx tx100 --txfreq 5180 --mode ht40plus --txrate 20 --txpwr 9.5
athtestcmd -iwlan0 --tx tx100 --txfreq 5300 --mode ht40plus --txrate 20 --txpwr 11.5
athtestcmd -iwlan0 --tx tx100 --txfreq 5500 --mode ht40plus --txrate 20 --txpwr 14
athtestcmd -iwlan0 --tx tx100 --txfreq 5660 --mode ht40plus --txrate 20 --txpwr 14

Configuration descriptions: None

Test mode:

☐ No test mode available.

☒ Special software is used.
EUT is transmitting pseudo random data by itself

10 RSP100 test report cover sheet / performance test data

Test report number :	1-5842/13-01-14			
Equipment model number:	WLANBV2-A			
Certification number :	3549C-WLANBV2			
Manufacturer (complete address) :	Philips Medizin Systeme Böblingen GmbH Hewlett-Packard-Strasse 2 71034 Böblingen / GERMANY			
Tested to radio standards Specification no. :	RSS 210, Issue 8, Annex 9			
Open area test site IC No. :	IC 3462C-1			
Frequency range :	UNII bands: 5150 MHz to 5250 MHz; 5250 MHz to 5350 MHz 5470 MHz to 5725 MHz			
RF-power (max.) :	Conducted values:			
	Band	a	n HT20	n HT40
	5180 – 5240 MHz	10.05 mW	8.57 mW	
	5190 – 5230 MHz			3.96 mW
	5260 – 5320 MHz	13.74 mW	16.56 mW	
	5270 – 5310 MHz			7.82 mW
	5500 – 5700 MHz	19.23 mW	20.84 mW	
	5510 – 5670 MHz			15.92 mW
	Radiated values: Antenna M3002-66494			
	5180 – 5240 MHz	13.27 mW	11.32 mW	
	5190 – 5230 MHz			4.88 mW
	5260 – 5320 MHz	13.74 mW	22.49 mW	
	5270 – 5310 MHz			10.62 mW
	5500 – 5700 MHz	19.23 mW	43.35 mW	
	5510 – 5670 MHz			33.11 mW
	Radiated values: Antenna 453564175981			
	5180 – 5240 MHz	23.07 mW	24.77 mW	
	5190 – 5230 MHz			8.47 mW
	5260 – 5320 MHz	44.77 mW	53.95 mW	
	5270 – 5310 MHz			25.47 mW
	5500 – 5700 MHz	45.92 mW	49.77 mW	
	5510 – 5670 MHz			38.02 mW
	Radiated values: Antenna 453564154611			
	5180 – 5240 MHz	4.71 mW	4.02 mW	
	5190 – 5230 MHz			1.73 mW
	5260 – 5320 MHz	12.91 mW	15.56 mW	
	5270 – 5310 MHz			7.35 mW
	5500 – 5700 MHz	20.28 mW	21.23 mW	
	5510 – 5670 MHz			19.01 mW
	Radiated values: Antenna 453564271931			
	5180 – 5240 MHz	9.62 mW	8.20 mW	
	5190 – 5230 MHz			3.53 mW
	5260 – 5320 MHz	8.53 mW	10.28 mW	
	5270 – 5310 MHz			4.85 mW
	5500 – 5700 MHz	21.98 mW	23.82 mW	
	5510 – 5670 MHz			18.20 mW
Occupied bandwidth (99%-BW) :	Band	a	n HT20	n HT40
	5180 – 5240 MHz	22.13 MHz	22.63 MHz	
	5190 – 5230 MHz			43.80 MHz
	5260 – 5320 MHz	22.43 MHz	23.13 MHz	
	5270 – 5310 MHz			44.68 MHz
	5500 – 5700 MHz	23.88 MHz	23.28 MHz	
	5510 – 5670 MHz			46.59 MHz
Necessary bandwidth (calculated) :	Band	a	n HT20	n HT40
	5180 – 5240 MHz	16.88 MHz	16.88 MHz	
	5190 – 5230 MHz			33.75 MHz
	5260 – 5320 MHz	16.88 MHz	16.88 MHz	

	5270 – 5310 MHz			33.75 MHz
	5500 – 5700 MHz	16.88 MHz	16.88 MHz	
	5510 – 5670 MHz			33.75 MHz
Emission classification :	(according TRC-43)	G7D		
Type of modulation :	QPSK, 16 – QAM, 64 – QAM			
Antenna information :	4 different external antennas: Ant M3002-66494 Ant 453564154611 Ant 453564175981 Ant 453564271931			
Transmitter spurious [dBµV/m @ 10m]	35.1 @ 222.6 MHz (Quasi-Peak)			

ATTESTATION:
DECLARATION OF COMPLIANCE:

I attest that the testing was performed or supervised by me; that the test measurements were made in accordance with the above-mentioned Industry Canada standard(s); and that the equipment identified in this application has been subjected to all the applicable test conditions specified in the Industry Canada standards and all of the requirements of the standard have been met.

Laboratory manager:

cn=Christoph Schneider, o=CETECOM ICT Services GmbH, ou=SND-120402, email=christoph.schneider@cetecom.com, c=DE
2013.08.08 11:15:27 +02'00'

2013-08-08	**Christoph Schneider**	
Date	Name	Signature

11 Measurement results

11.1 Gain

Description:

Measurement of the output power conduced and radiated to calculate the antenna or system gain.

Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	5s
Resolution bandwidth:	3 MHz
Video bandwidth:	8 MHz / 10 MHz
Span:	See complete signal!
Trace-Mode:	Max Hold

Result:

Antenna 1: M3002-66494

OFDM 5150 MHz to 5725 MHz	**Gain**			
Channel	5180 MHz	5320 MHz	5500 MHz	5700 MHz
Radiated power for gain calculation	15.1	16.7	18.4	19.2
Conducted power for gain calculation	13.89	15.37	15.53	16.02
Gain	1.21	1.33	2.87	3.18
Measurement uncertainty	± 3 dB			

Antenna 2: 453564154611

OFDM 5150 MHz to 5725 MHz	**Gain**			
Channel	5180 MHz	5320 MHz	5500 MHz	5700 MHz
Radiated power for gain calculation	10.6	15.1	17.1	16.1
Conducted power for gain calculation	13.89	15.37	15.53	16.02
Gain	-3.29	-0.27	1.57	0.08
Measurement uncertainty	± 3 dB			

Antenna 3: 453564175981

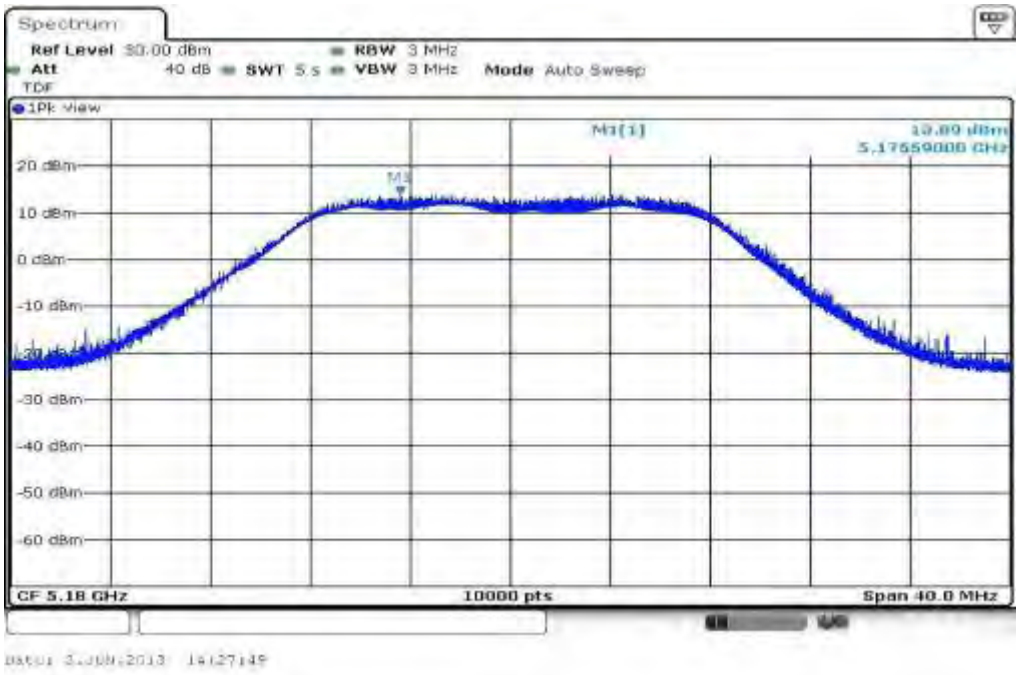
OFDM 5150 MHz to 5725 MHz	**Gain**			
Channel	5180 MHz	5320 MHz	5500 MHz	5700 MHz
Radiated power for gain calculation	17.5	20.5	19.9	19.8
Conducted power for gain calculation	13.89	15.37	15.53	16.02
Gain	3.61	5.13	4.37	3.78
Measurement uncertainty	± 3 dB			

Antenna 4: 453564271931

OFDM 5150 MHz to 5725 MHz	**Gain**			
Channel	5180 MHz	5320 MHz	5500 MHz	5700 MHz
Radiated power for gain calculation	13.7	13.3	15.9	16.6
Conducted power for gain calculation	13.89	15.37	15.53	16.02
Gain	-0.19	-2.07	0.37	0.58
Measurement uncertainty	± 3 dB			

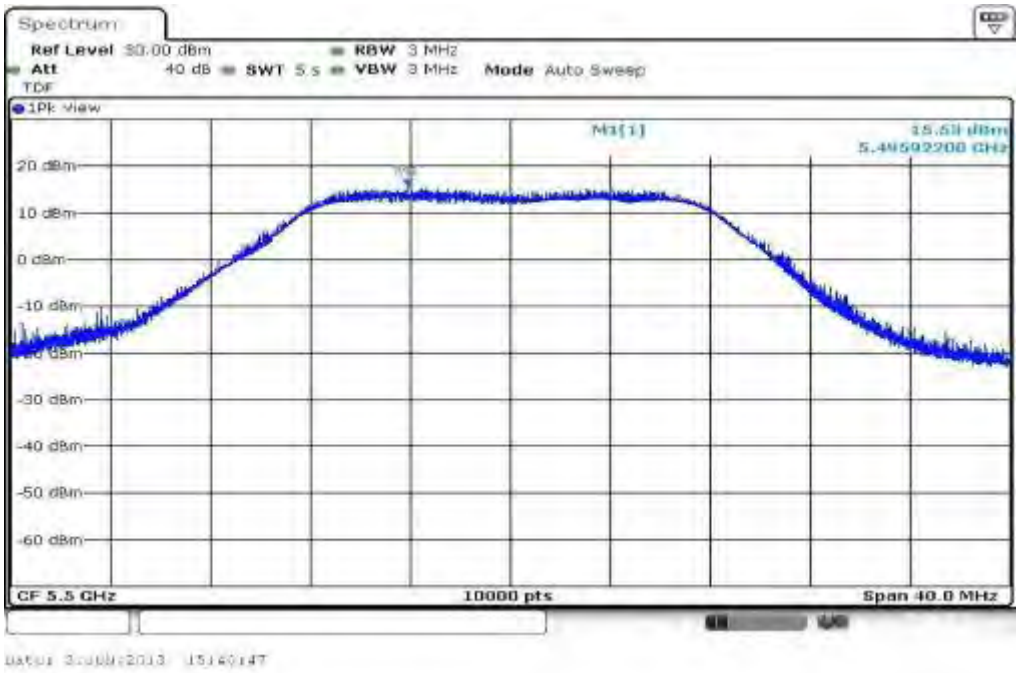
Plots: conducted power for gain calculation

Plot 1: OFDM / a – mode, 5180 MHz

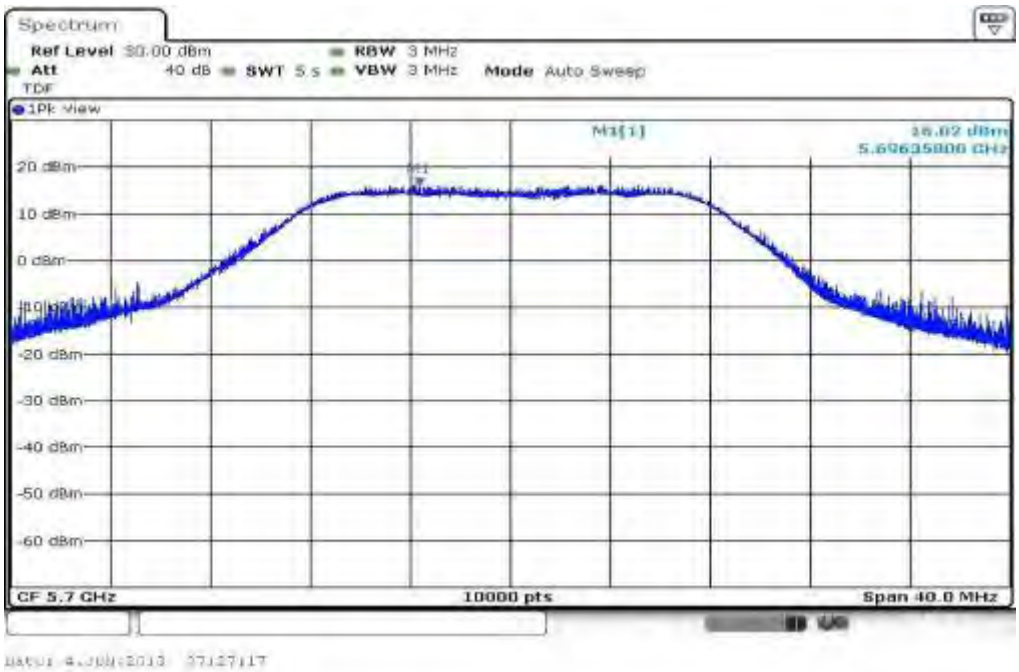


Plot 2: OFDM / a – mode, 5320 MHz

Plot 3: OFDM / a – mode, 5500 MHz



Plot 4: OFDM / a – mode, 5700 MHz



11.2 Maximum output power conducted and radiated

Description:

Measurement of the maximum output power conduced and radiated

Measurement:

Measurement parameter	
Detector:	RMS
Sweep time:	60s
Resolution bandwidth:	1 MHz
Video bandwidth:	≥ 3 MHz
Span:	> EBW
Trace-Mode:	Max hold
Analyzer function	Band power / channel power Interval > 26 dB EBW

Limits:

Radiated output power	Conducted output power
Conducted power + 6dBi antenna gain	The lesser one of 50mW or 4 dBm + 10 log Bandwidth 5.150-5.250 GHz 250mW or 11 dBm + 10 log Bandwidth 5.250-5.350 GHz 250mW or 11 dBm + 10 log Bandwidth 5.470-5.725 GHz 1W or 17 dBm + 10 log Bandwidth 5.725-5.825 GHz (where Bandwidth is the 26dB Bandwidth [MHz])

Result: OFDM / a – mode

OFDM / a – mode	Maximum Output Power [dBm]			
Frequency / MHz	5180 MHz	5320 MHz	5500 MHz	5700 MHz
Peak output power conducted	10.02	11.38	11.50	12.84
Output Power Radiated – EIRP*) Antenna: M3002-66494	11.23	12.71	14.37	16.02
Output Power Radiated – EIRP*) Antenna: 453564154611	6.73	11.11	13.07	12.92
Output Power Radiated – EIRP*) Antenna: 453564175981	13.63	16.51	15.87	16.62
Output Power Radiated – EIRP*) Antenna: 453564271931	9.83	9.31	11.87	13.42
Measurement uncertainty	± 1.5 dB (cond.) / ± 3 dB (rad.)			

*) calculated with Antenna gain

Result: Passed

Result: OFDM / n – mode HT20

OFDM / n – mode HT20	Maximum Output Power [dBm]			
Frequency / MHz	5180 MHz	5320 MHz	5500 MHz	5700 MHz
Peak output power conducted	9.33	12.19	11.65	13.19
Output Power Radiated – EIRP*) Antenna: M3002-66494	10.54	13.52	14.52	16.37
Output Power Radiated – EIRP*) Antenna: 453564154611	6.04	11.92	13.22	13.27
Output Power Radiated – EIRP*) Antenna: 453564175981	13.94	17.32	16.02	16.97
Output Power Radiated – EIRP*) Antenna: 453564271931	9.14	10.12	12.02	13.77
Measurement uncertainty	± 1.5 dB (cond.) / ± 3 dB (rad.)			

*) calculated with Antenna gain

Result: Passed

Result: OFDM / n – mode HT40

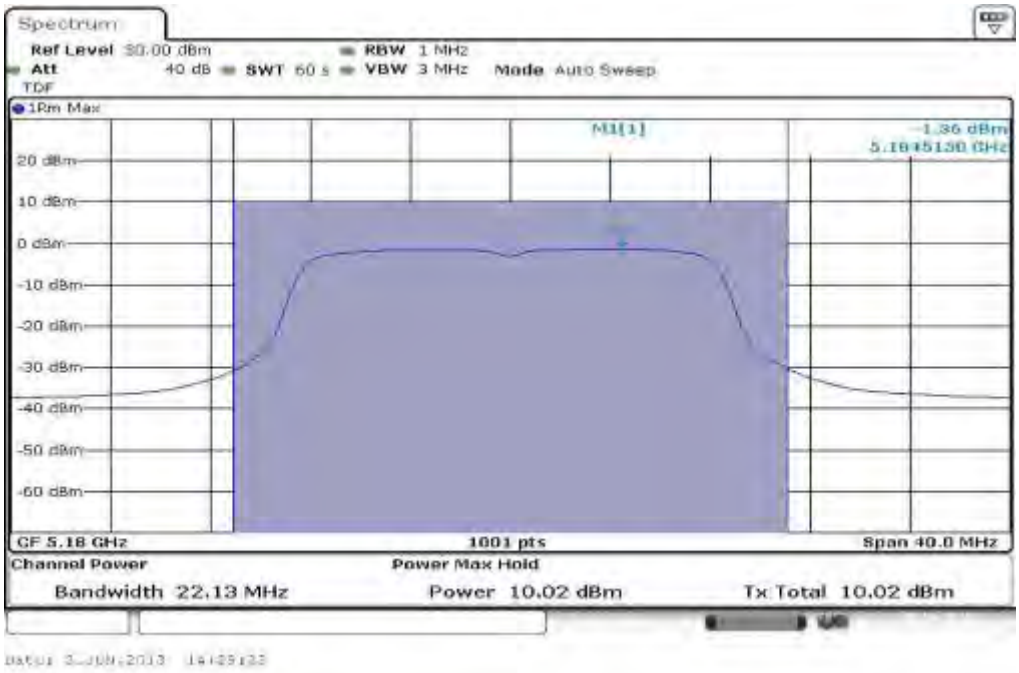
OFDM / n – mode HT40	Maximum Output Power [dBm]			
Frequency / MHz	5190 MHz	5310 MHz	5510 MHz	5670 MHz
Peak output power conducted	5.67	8.93	11.22	12.02
Output Power Radiated – EIRP*) Antenna: M3002-66494	6.88	10.26	14.09	15.20
Output Power Radiated – EIRP*) Antenna: 453564154611	2.38	8.66	12.79	12.10
Output Power Radiated – EIRP*) Antenna: 453564175981	9.28	14.06	15.59	15.80
Output Power Radiated – EIRP*) Antenna: 453564271931	5.48	6.86	11.59	12.60
Measurement uncertainty	± 1.5 dB (cond.) / ± 3 dB (rad.)			

*) calculated with Antenna gain

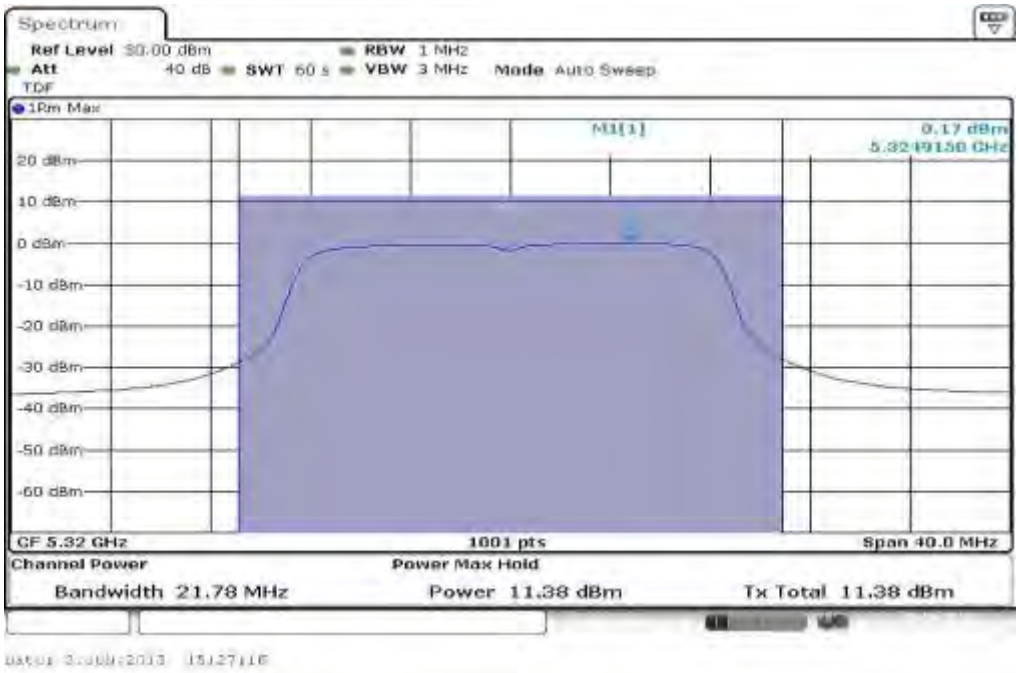
Result: **Passed**

Plots: OFDM / a – mode

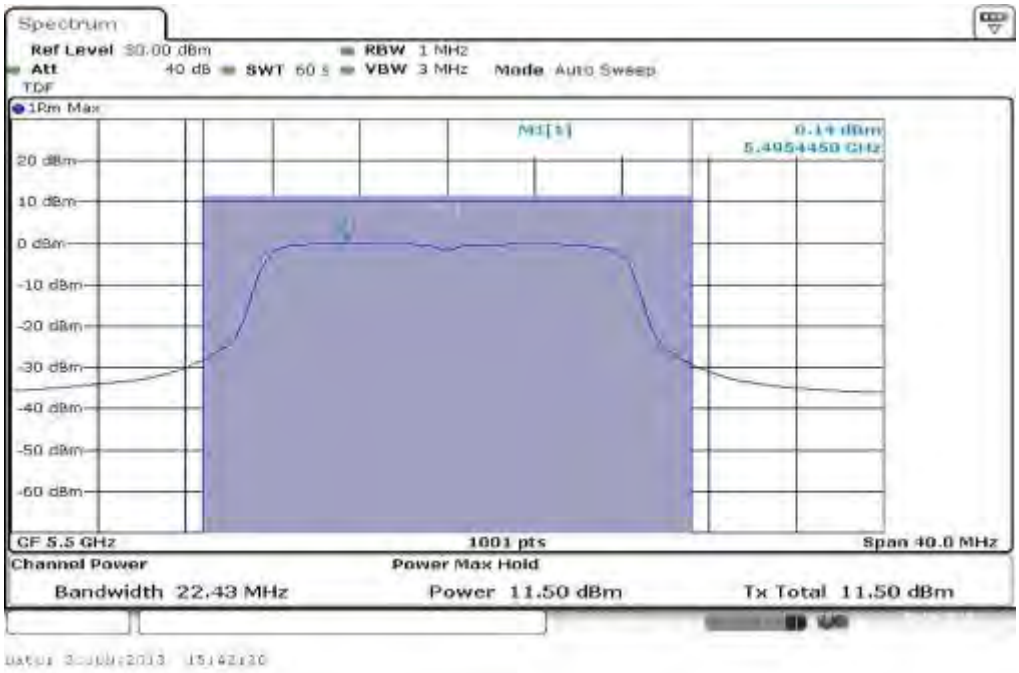
Plot 1: 5180 MHz



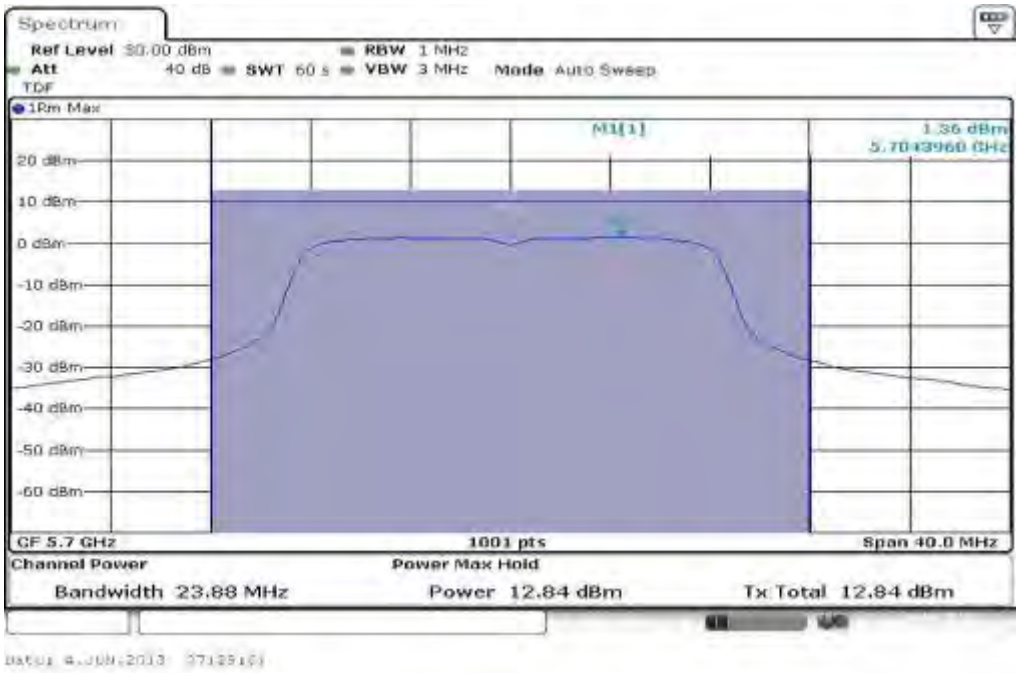
Plot 2: 5320 MHz



Plot 3: 5500 MHz

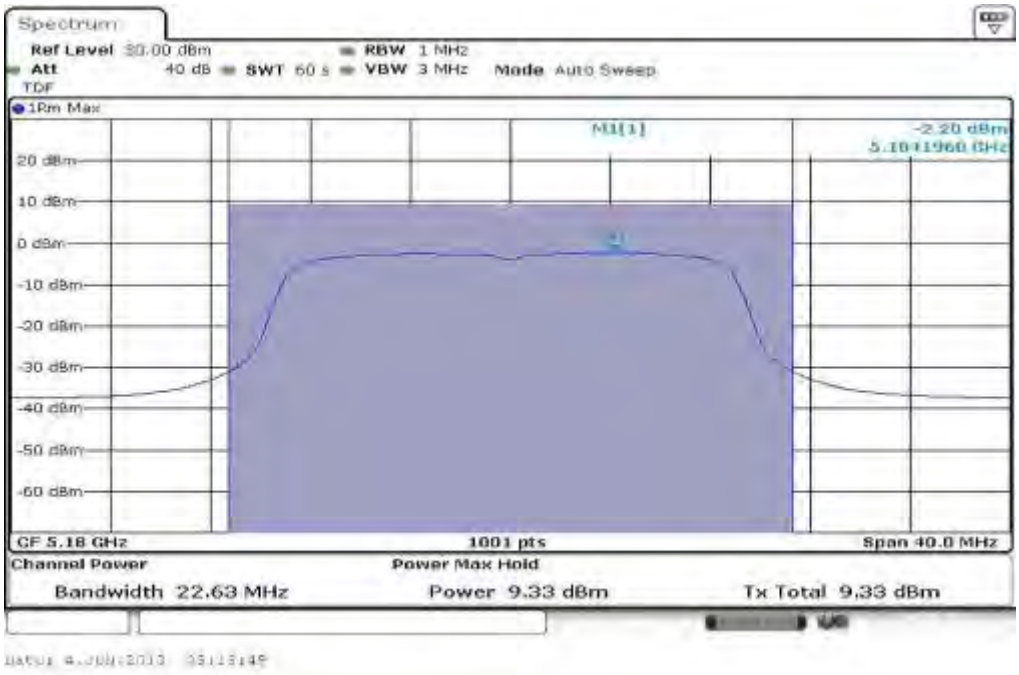


Plot 4: 5700 MHz

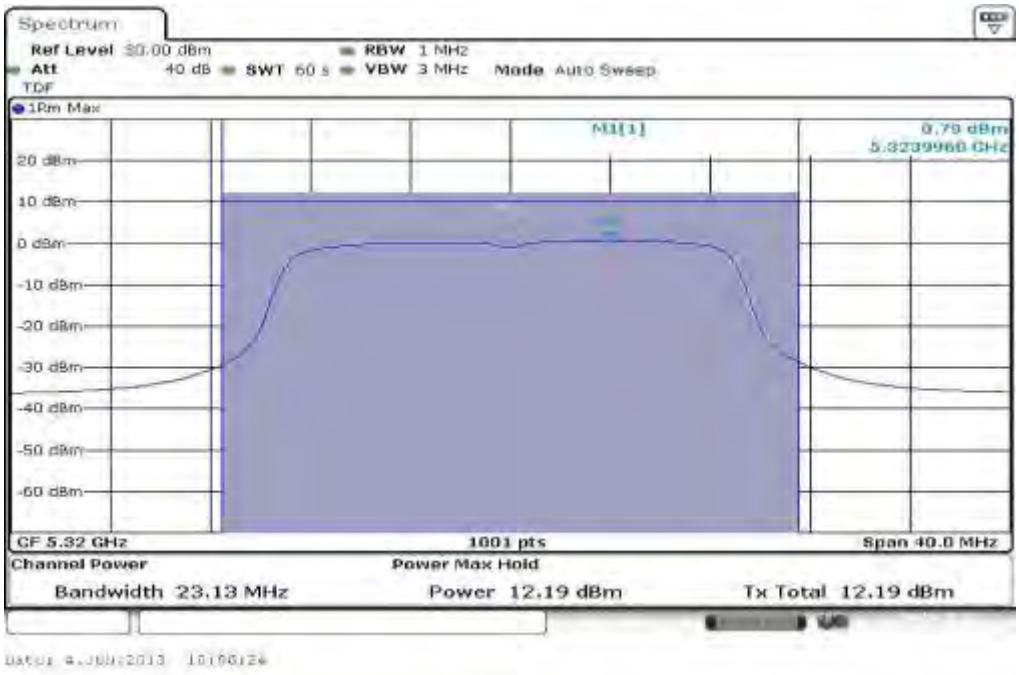


Plots: OFDM / n – mode HT20

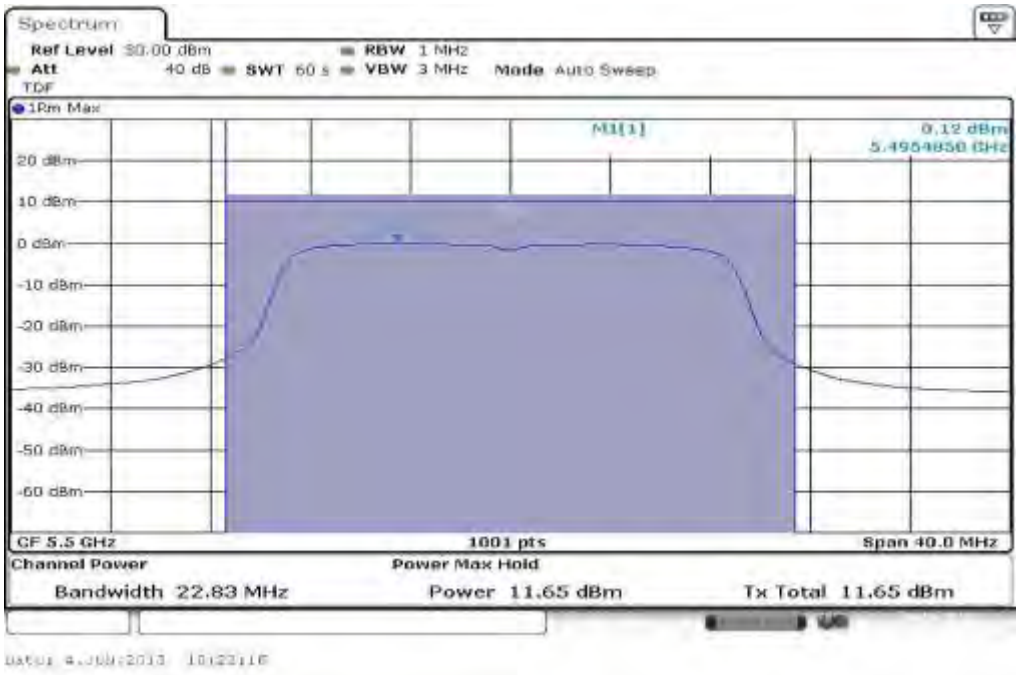
Plot 1: 5180 MHz



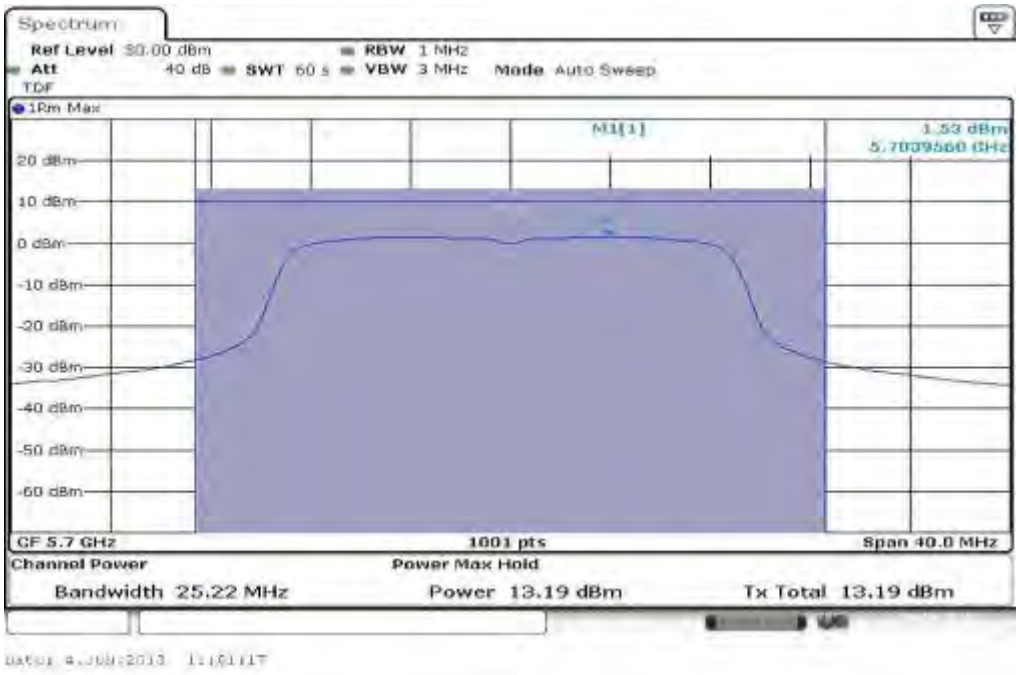
Plot 2: 5320 MHz



Plot 3: 5500 MHz

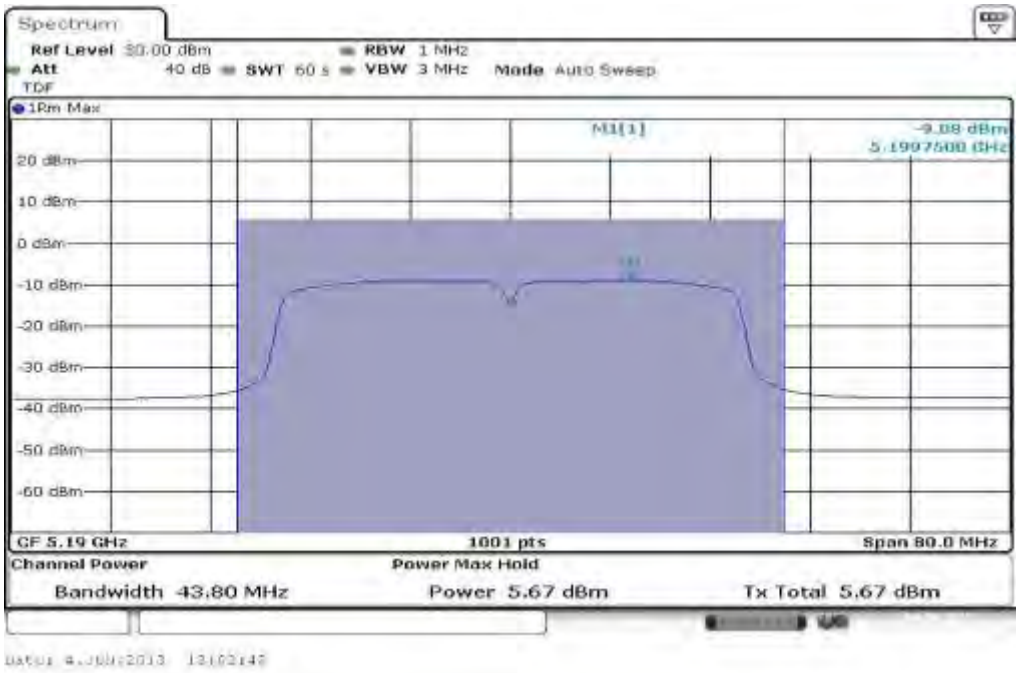


Plot 4: 5700 MHz

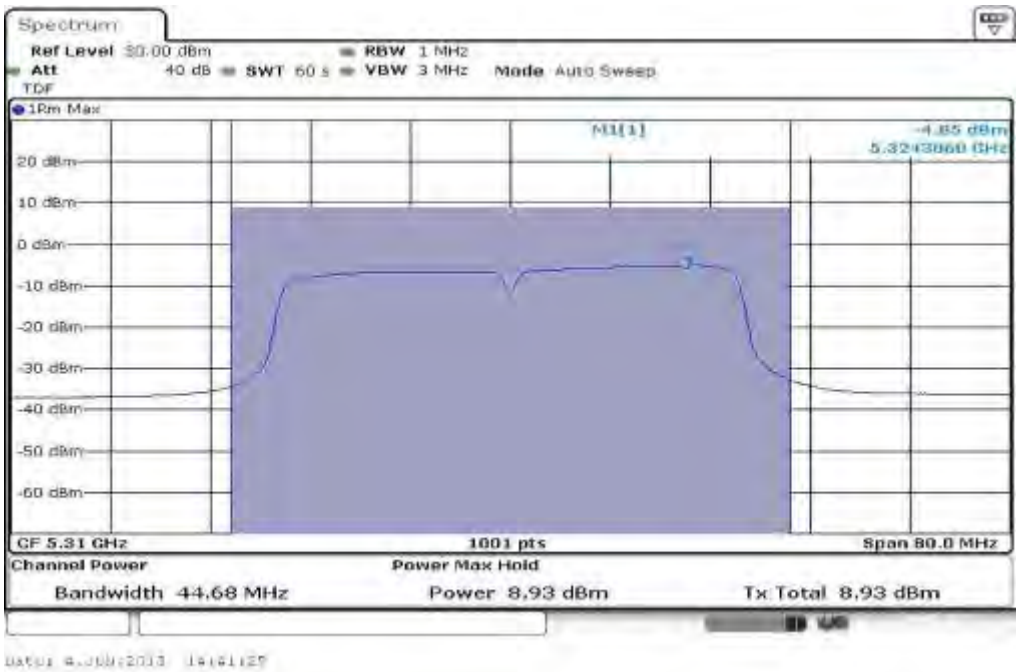


Plots: OFDM / n – mode HT40

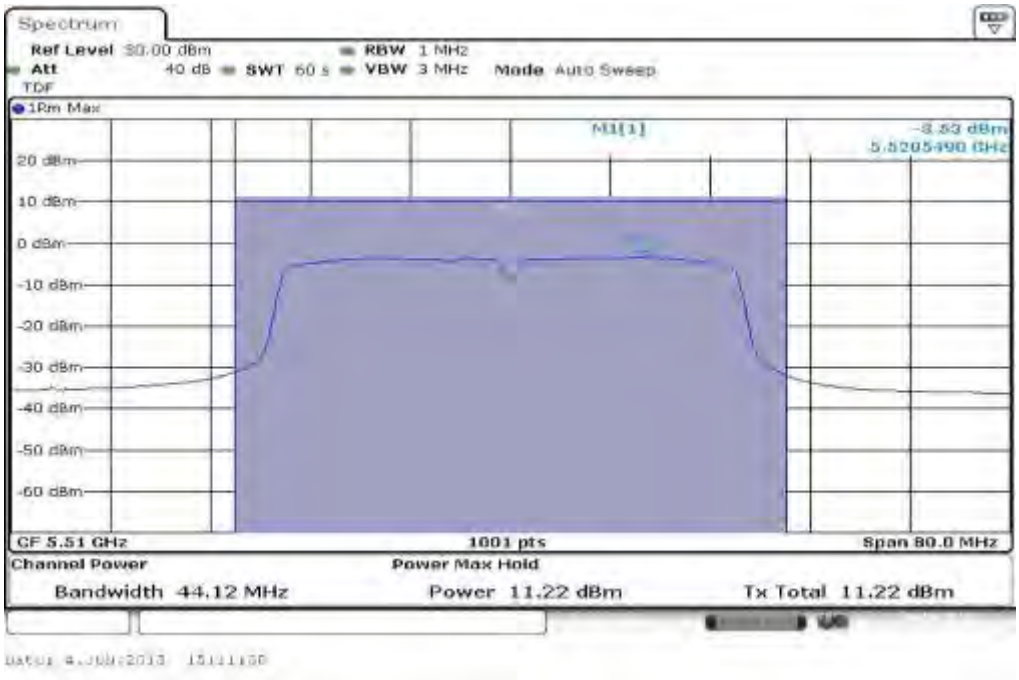
Plot 1: 5190 MHz



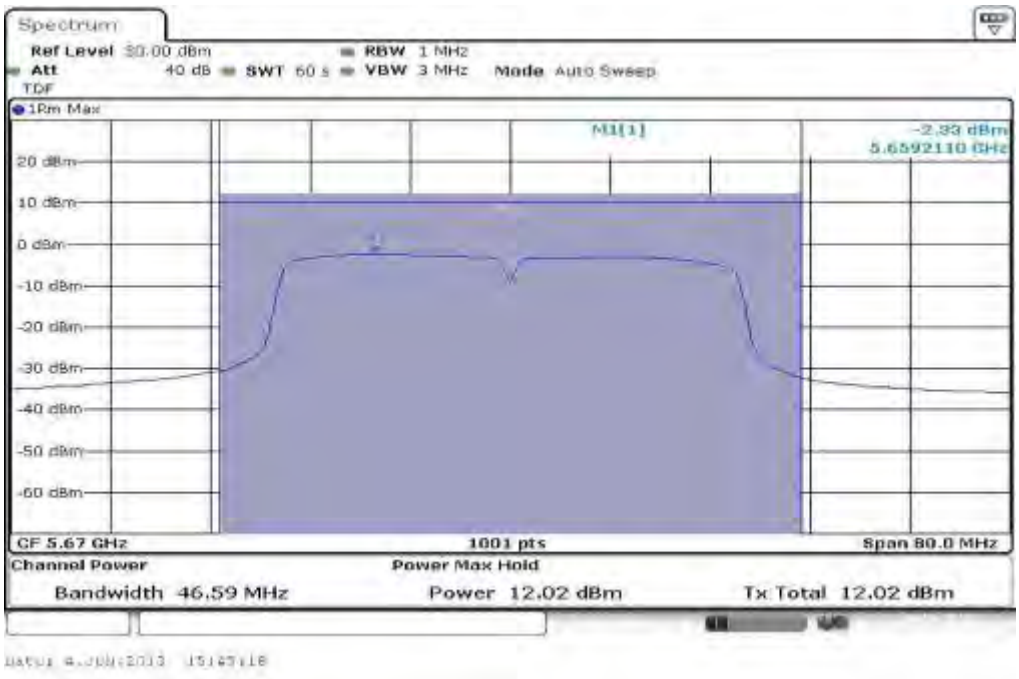
Plot 2: 5310 MHz



Plot 3: 5510 MHz



Plot 4: 5670 MHz



11.3 Power spectral density

Description:

Measurement of the power spectral density of a digital modulated system. The measurement is repeated at the lowest, middle and highest channel.

Measurement:

Measurement parameter	
Detector:	RMS
Sweep time:	60 s / 120 s
Resolution bandwidth:	1 MHz
Video bandwidth:	≥ 3 MHz
Span:	> EBW
Trace-Mode:	Max hold

Limits:

Power Spectral Density
power spectral density conducted ≤ 4 dBm in any 1 MHz band (band 5150 – 5250 MHz) power spectral density conducted ≤ 11 dBm in any 1 MHz band (band 5250 – 5350 MHz) power spectral density conducted ≤ 11 dBm in any 1 MHz band (band 5470 – 5725 MHz) power spectral density conducted ≤ 17 dBm in any 1 MHz band (band 5725 – 5825 MHz)

Result: OFDM / a – mode

OFDM / a – mode	Power Spectral density [dBm/MHz]			
Channel	5180 MHz	5240 MHz	5260 MHz	5320 MHz
+dB duty cycle correction	-1.32	-0.08	-0.07	0.20
Channel	5500 MHz	5600 MHz	5700 MHz	
+dB duty cycle correction	0.14	0.44	1.40	
Measurement uncertainty	± 1 dB			

Result: **Passed**

Result: OFDM / n – mode HT20

OFDM / n – mode HT20	Power Spectral density [dBm/MHz]			
Channel	5180 MHz	5240 MHz	5260 MHz	5320 MHz
+dB duty cycle correction	-2.17	-0.91	-0.38	0.83
Channel	5500 MHz	5600 MHz	5700 MHz	
+dB duty cycle correction	0.11	0.12	1.58	
Measurement uncertainty	± 1 dB			

Result: Passed

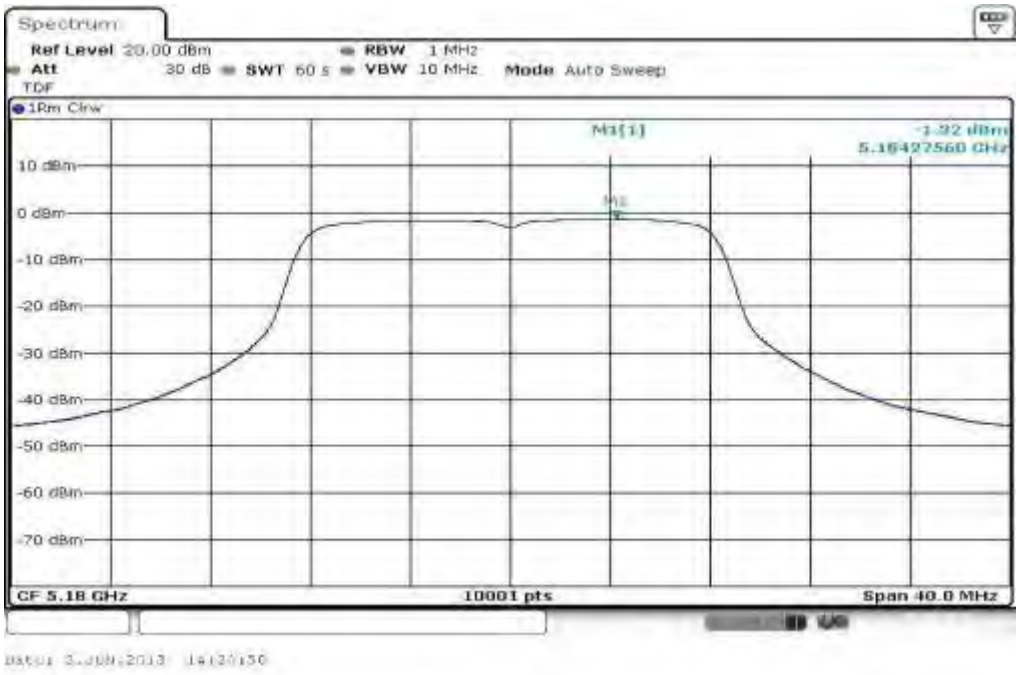
Result: OFDM / n – mode HT40

OFDM / n – mode HT40	Power Spectral density [dBm/MHz]			
Channel	5190 MHz	5230 MHz	5270 MHz	5310 MHz
+dB duty cycle correction	-9.04	-3.74	-0.86	-4.79
Channel	5510 MHz	5590 MHz	5670 MHz	-/-
+dB duty cycle correction	-3.29	-2.80	-2.32	-/-
Measurement uncertainty	± 1 dB			

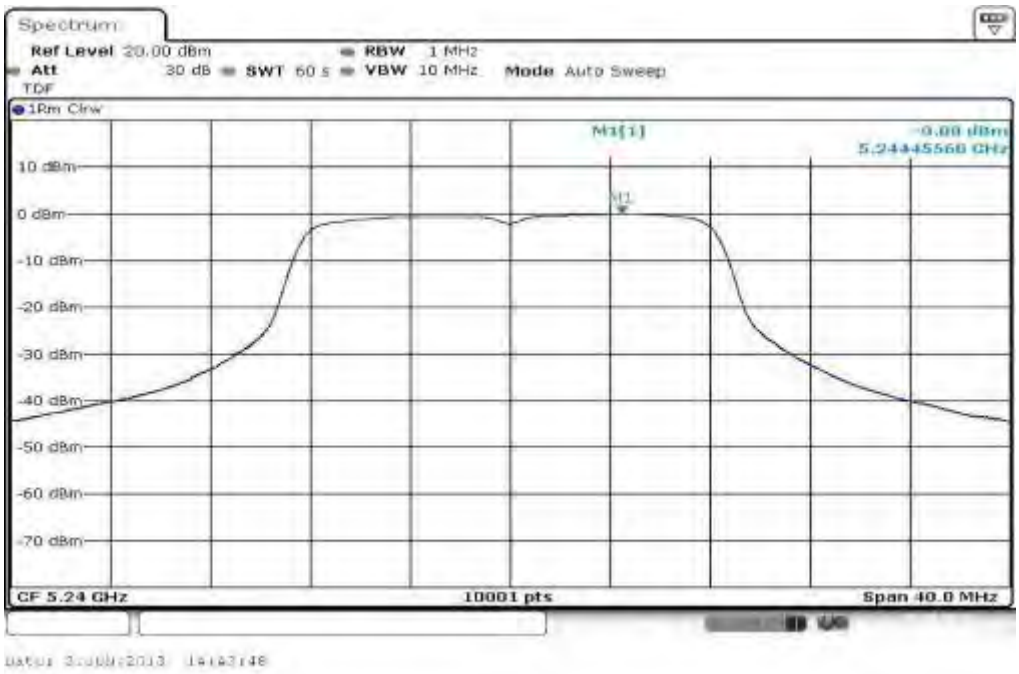
Result: Passed

Plots: OFDM / a – mode

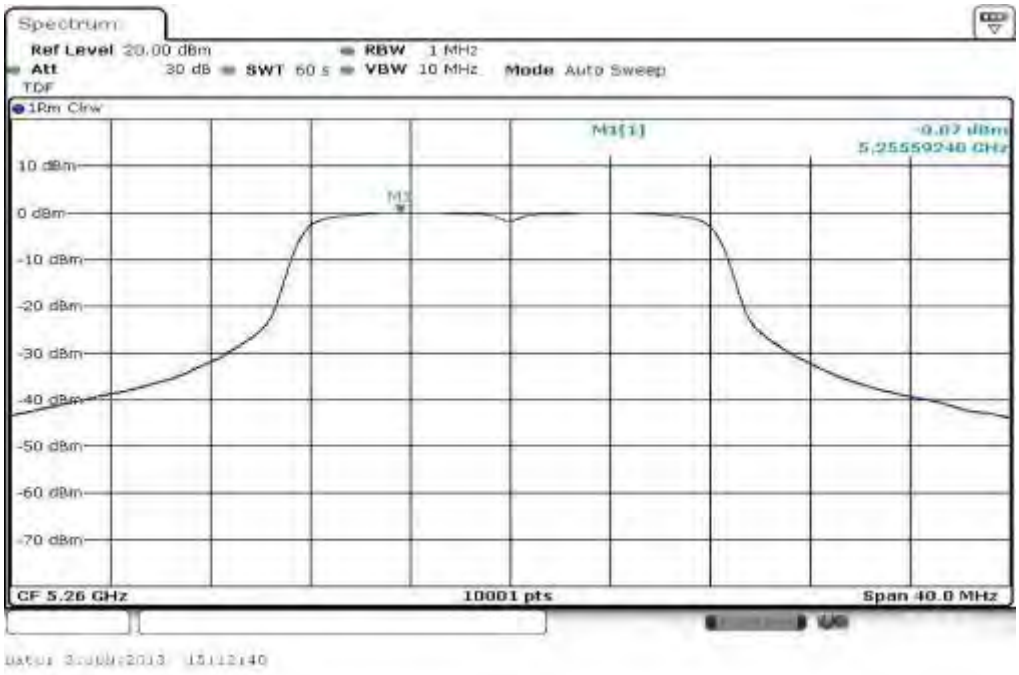
Plot 1: 5180 MHz



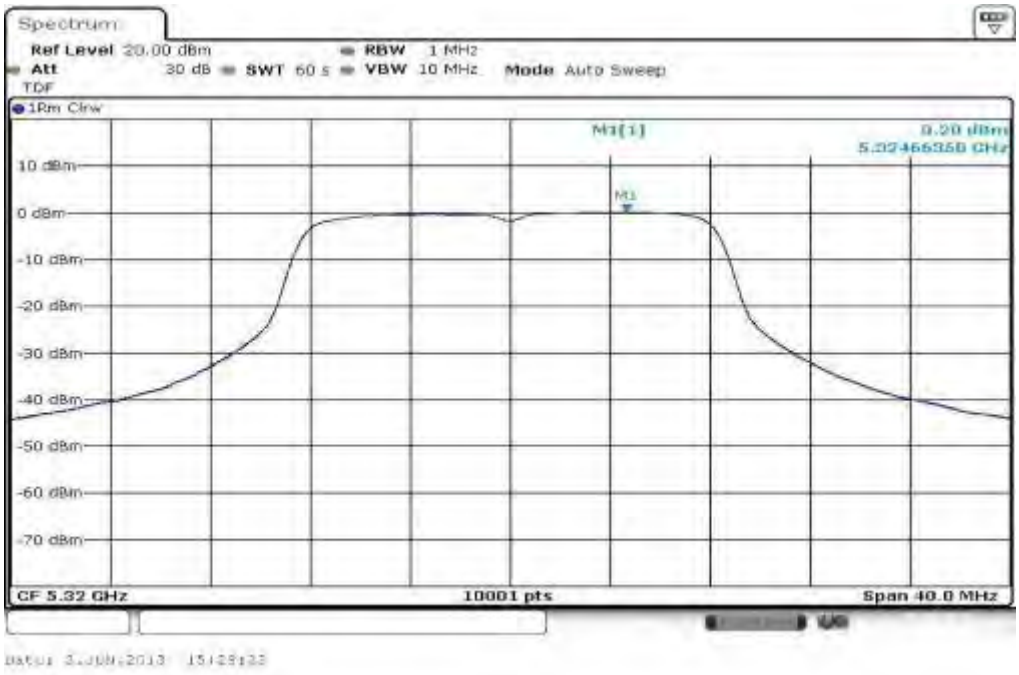
Plot 2: 5240 MHz



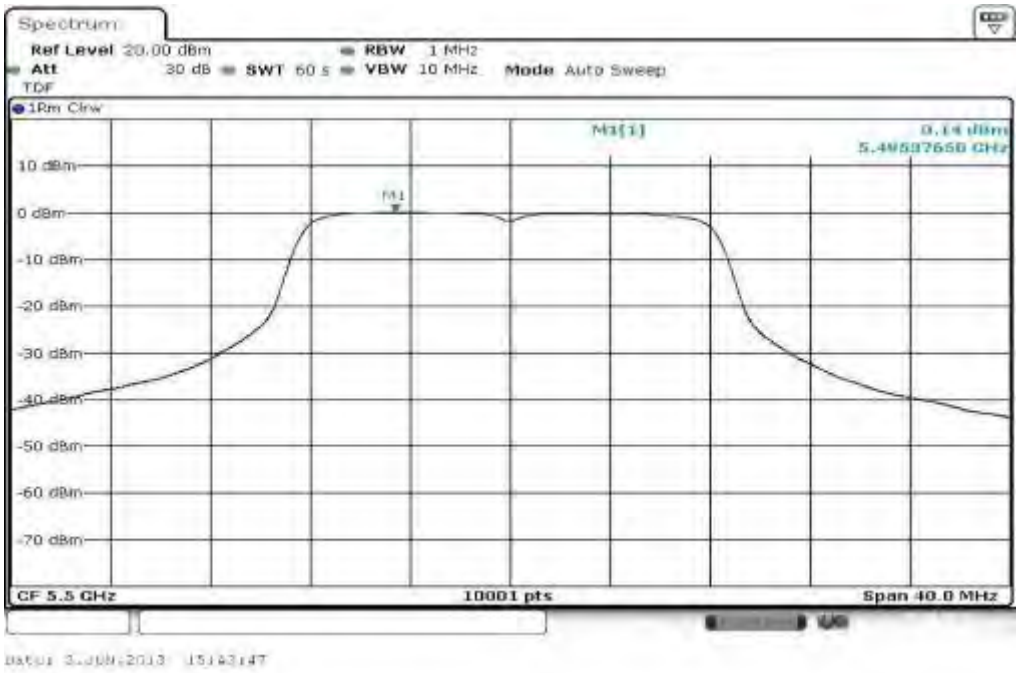
Plot 3: 5260 MHz



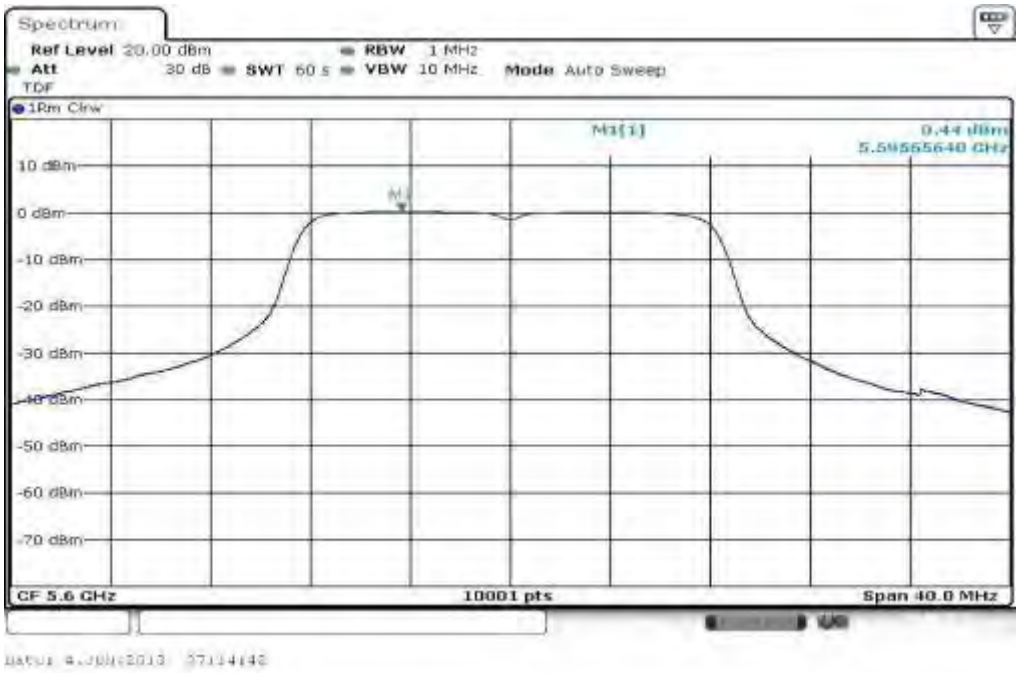
Plot 4: 5320 MHz



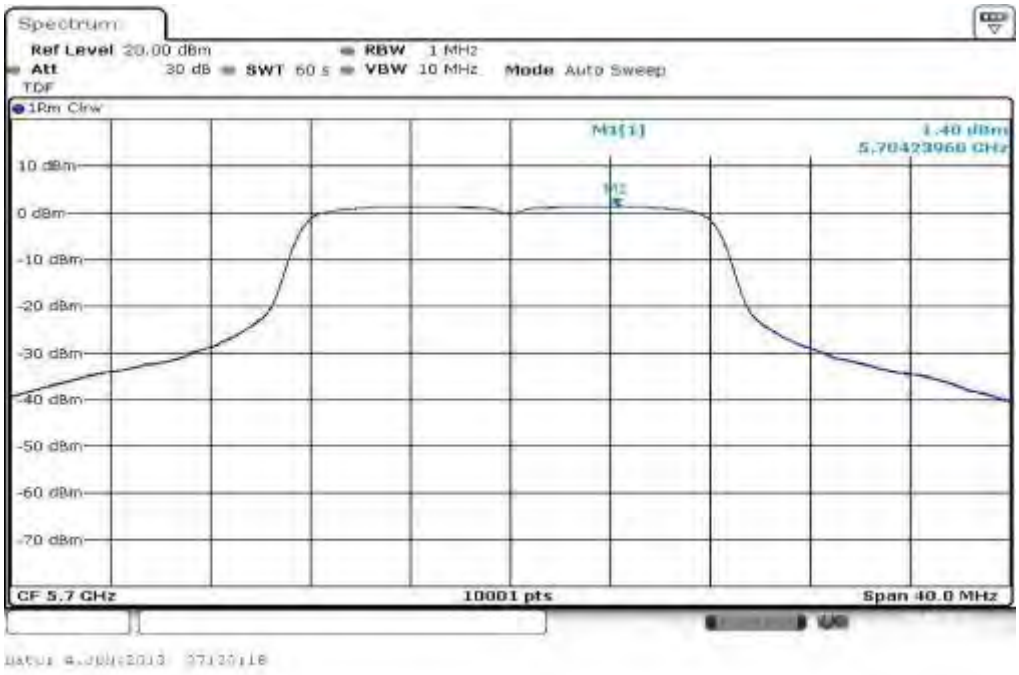
Plot 5: 5500 MHz



Plot 6: 5600 MHz

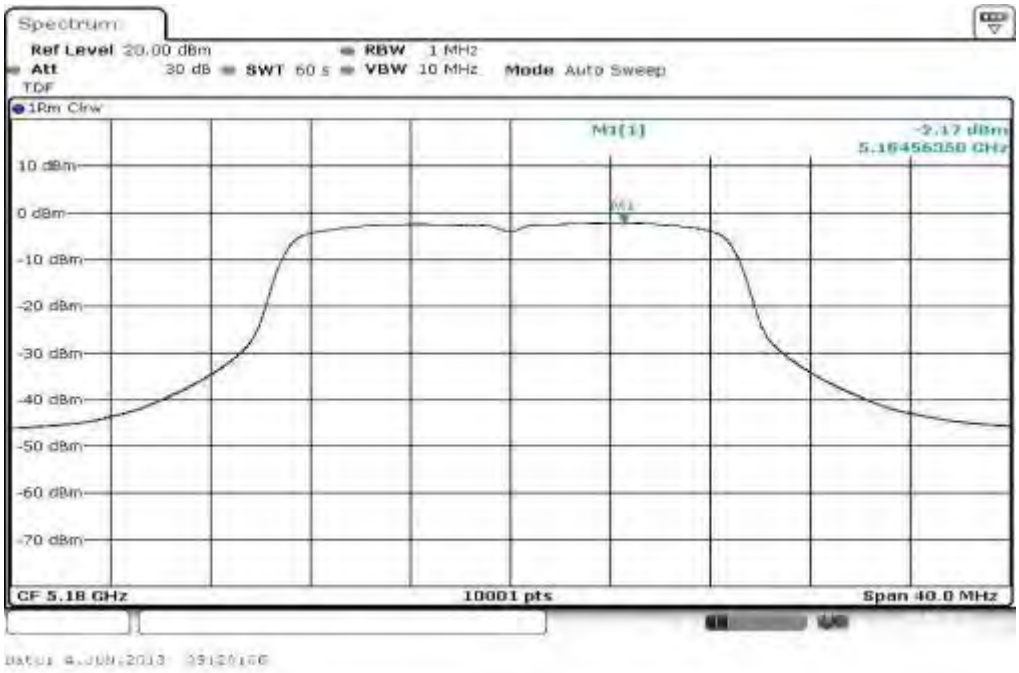


Plot 7: 5700 MHz

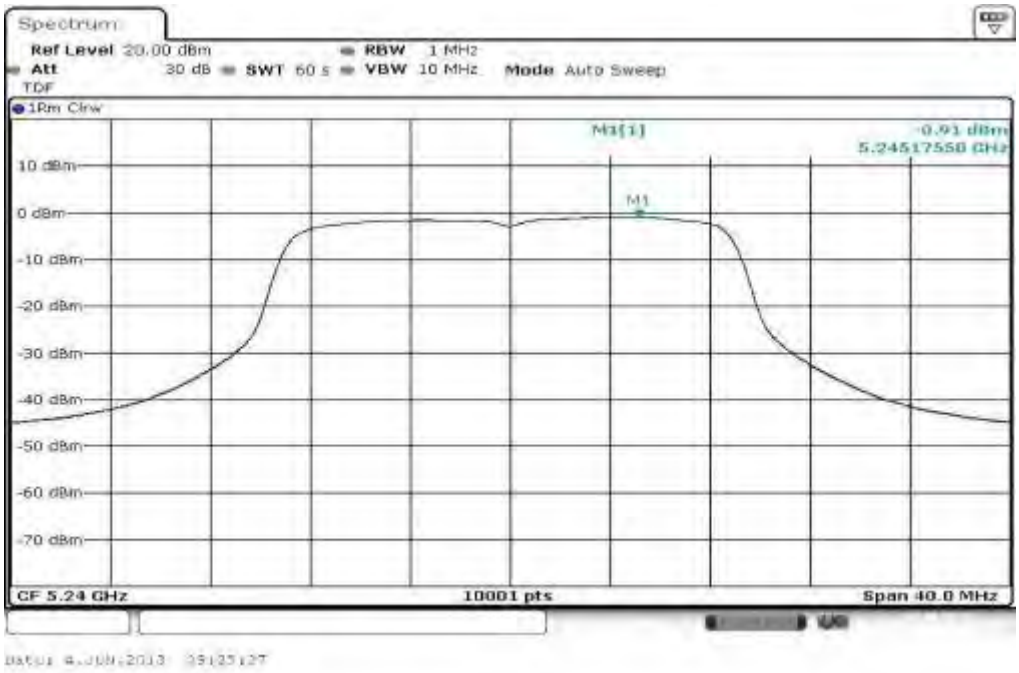


Plots: OFDM / n – mode HT20

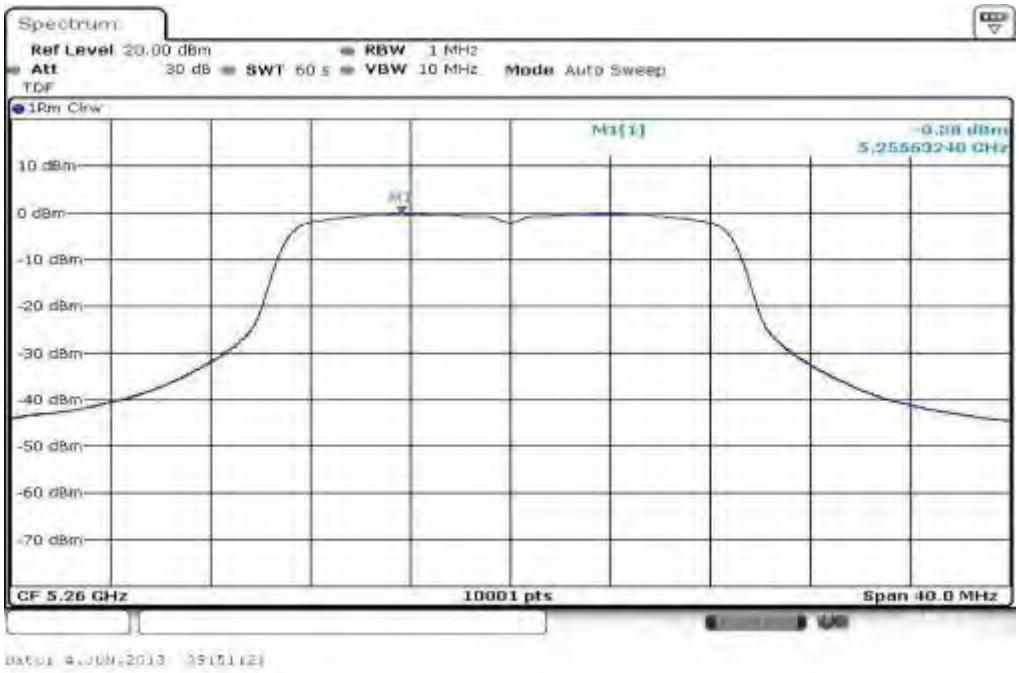
Plot 1: 5180 MHz



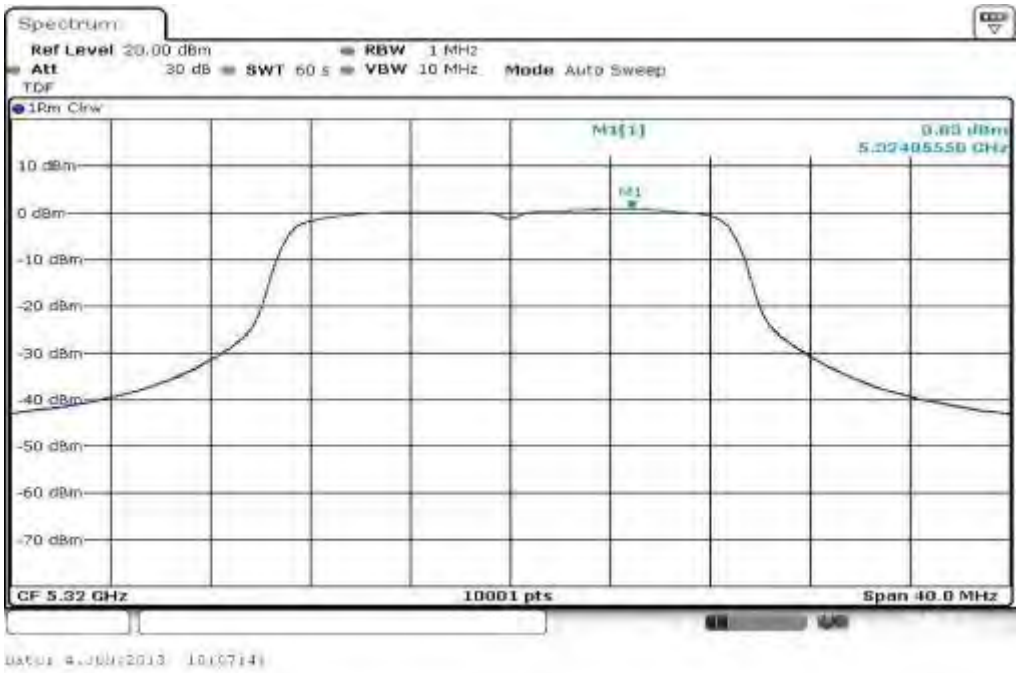
Plot 2: 5240 MHz



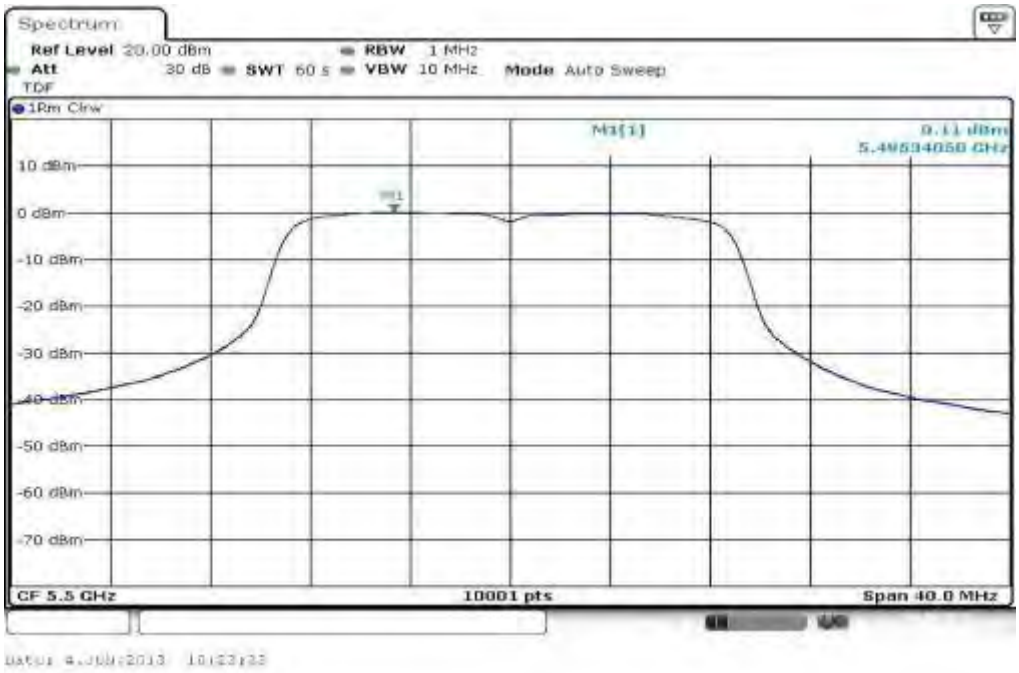
Plot 3: 5260 MHz



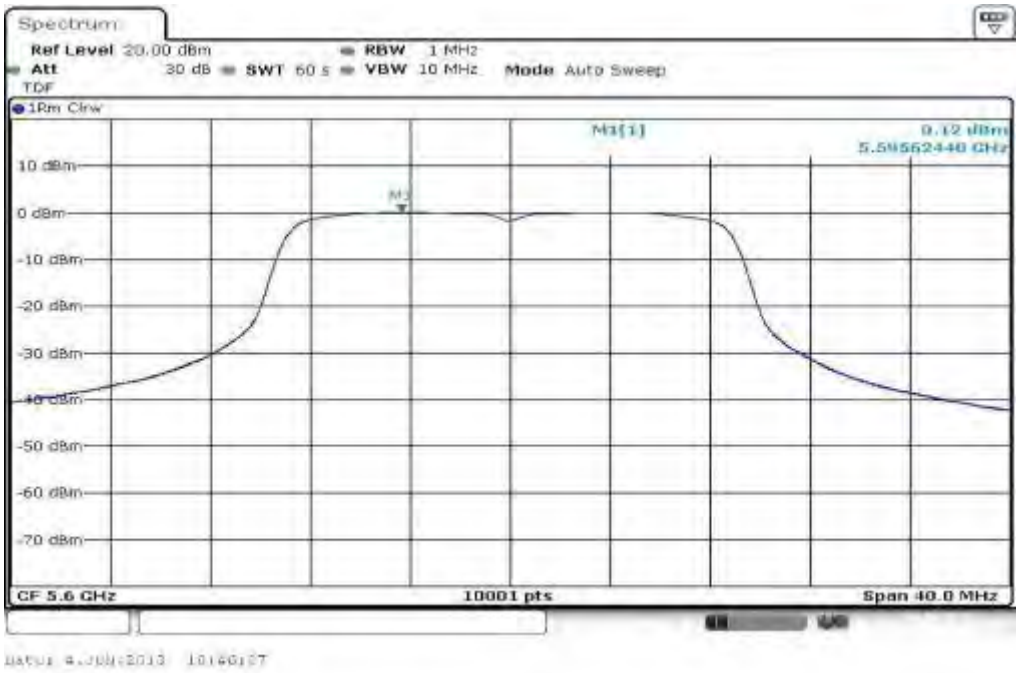
Plot 4: 5320 MHz



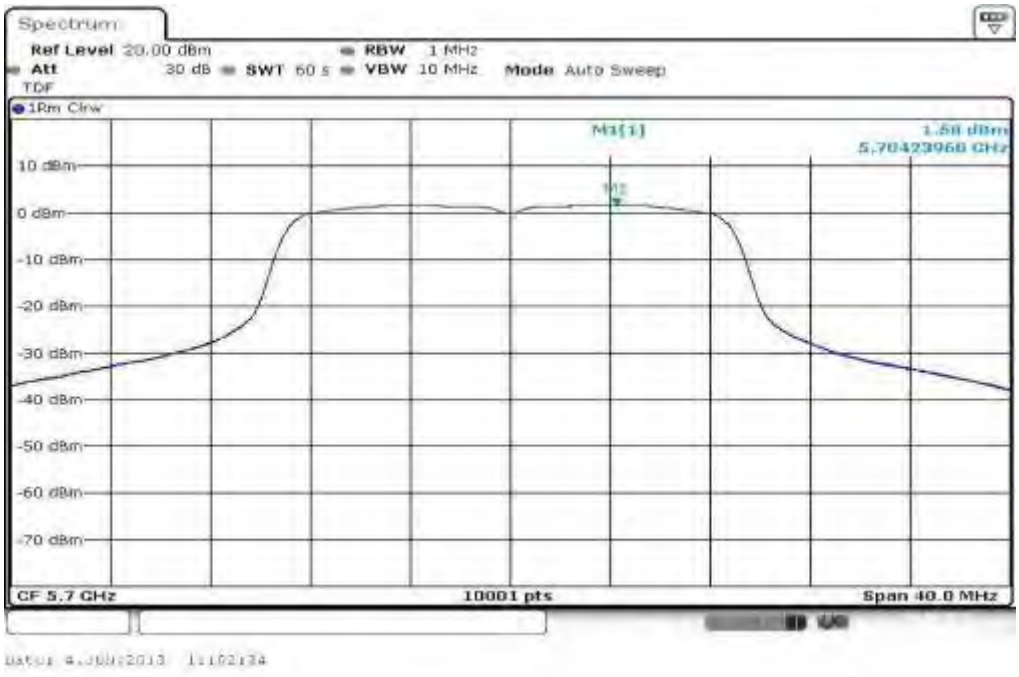
Plot 5: 5500 MHz



Plot 6: 5600 MHz

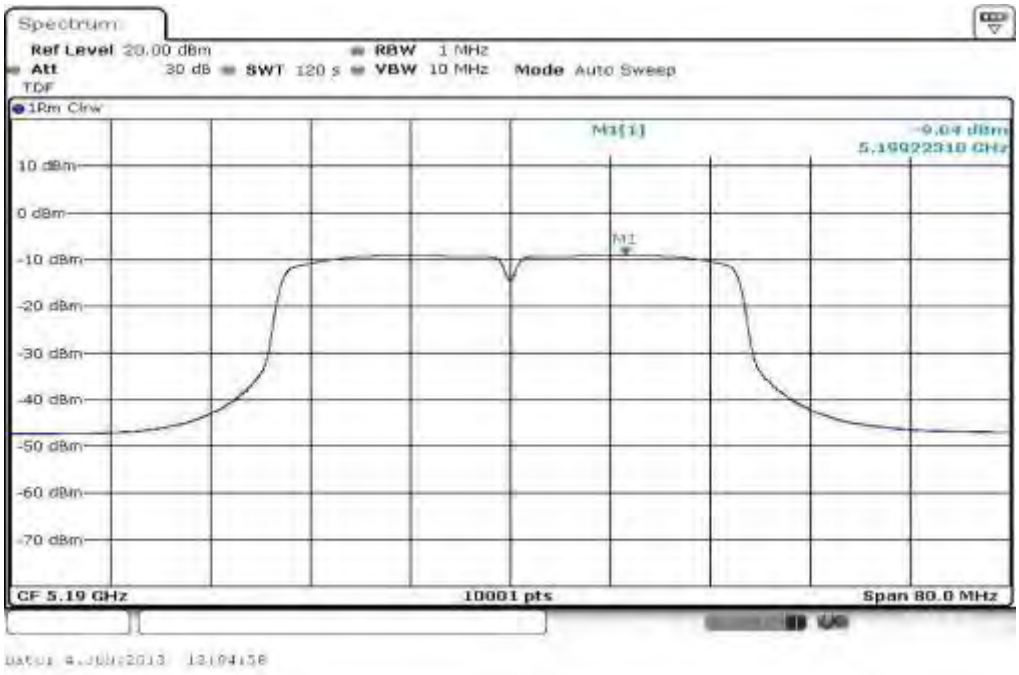


Plot 7: 5700 MHz

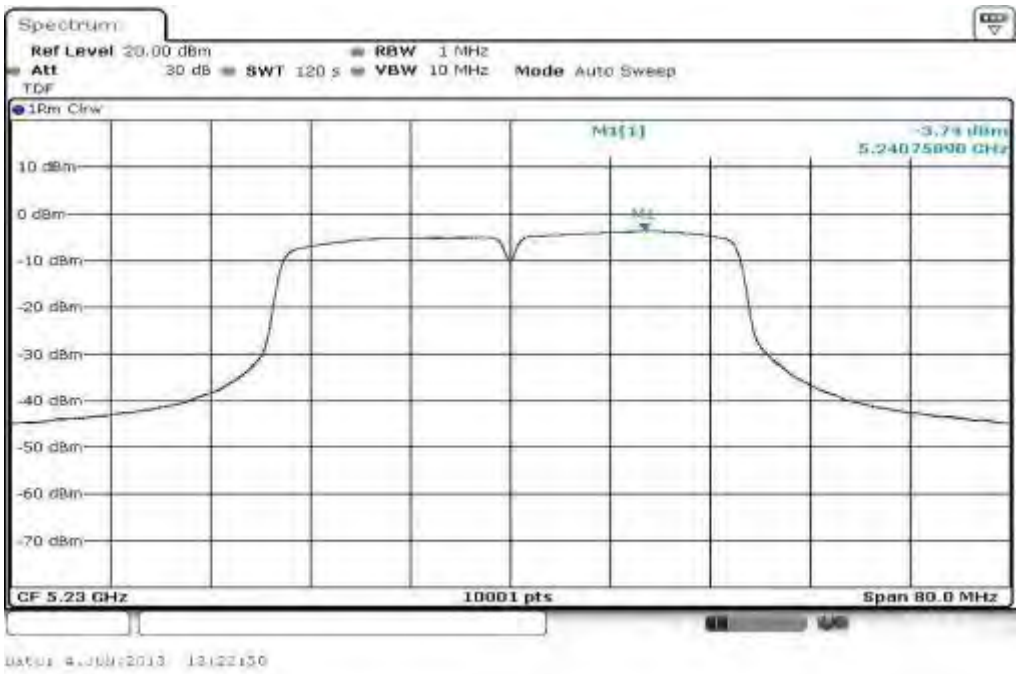


Plots: OFDM / n – mode HT40

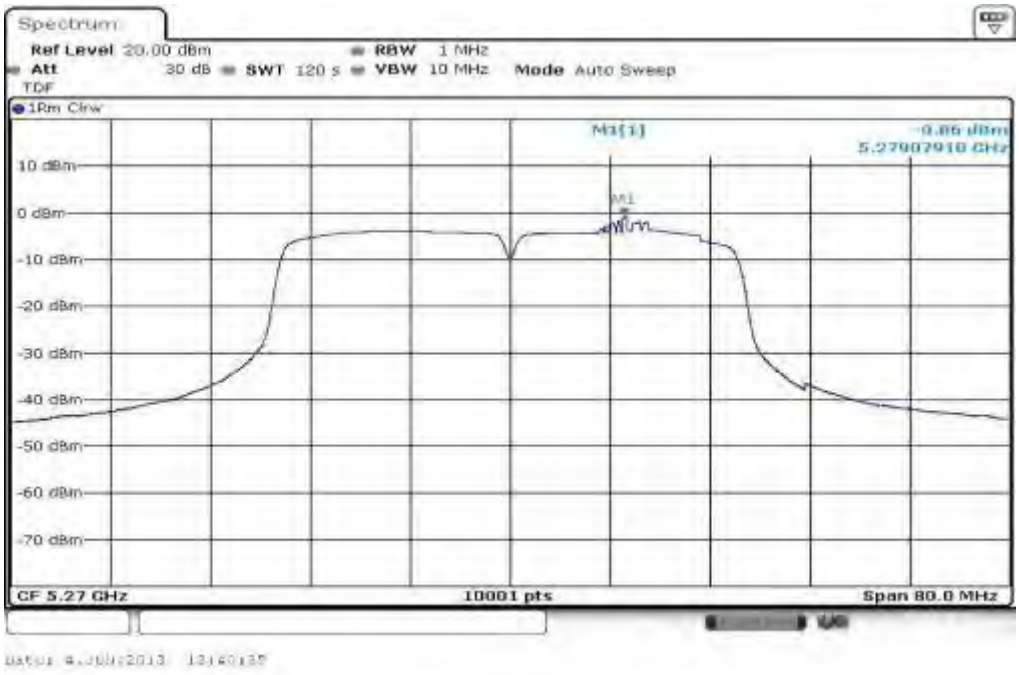
Plot 1: 5190 MHz



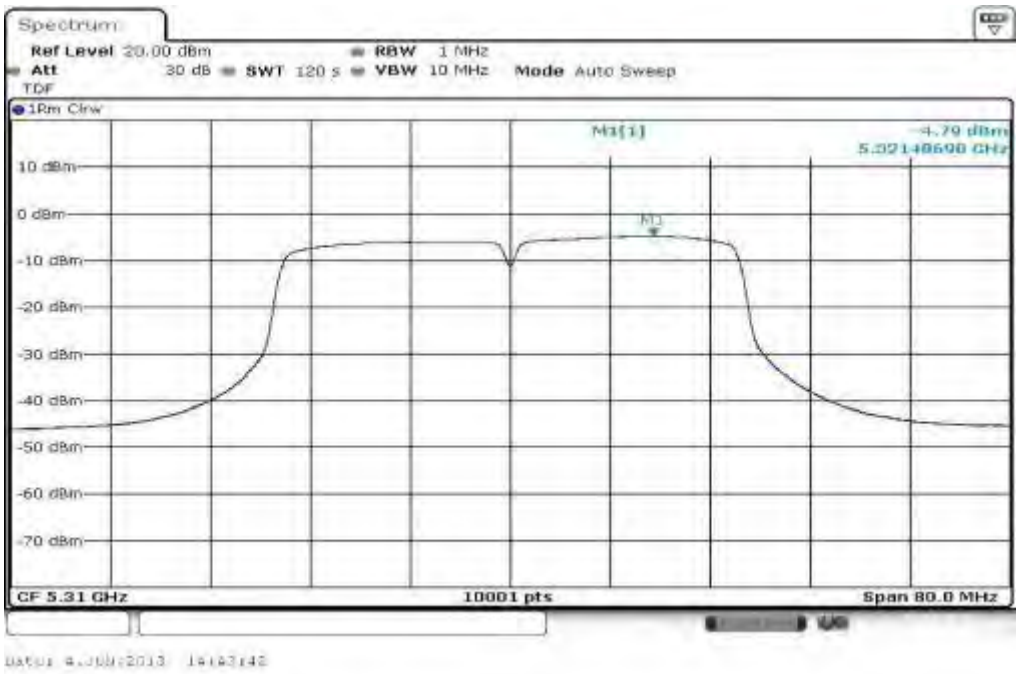
Plot 2: 5230 MHz



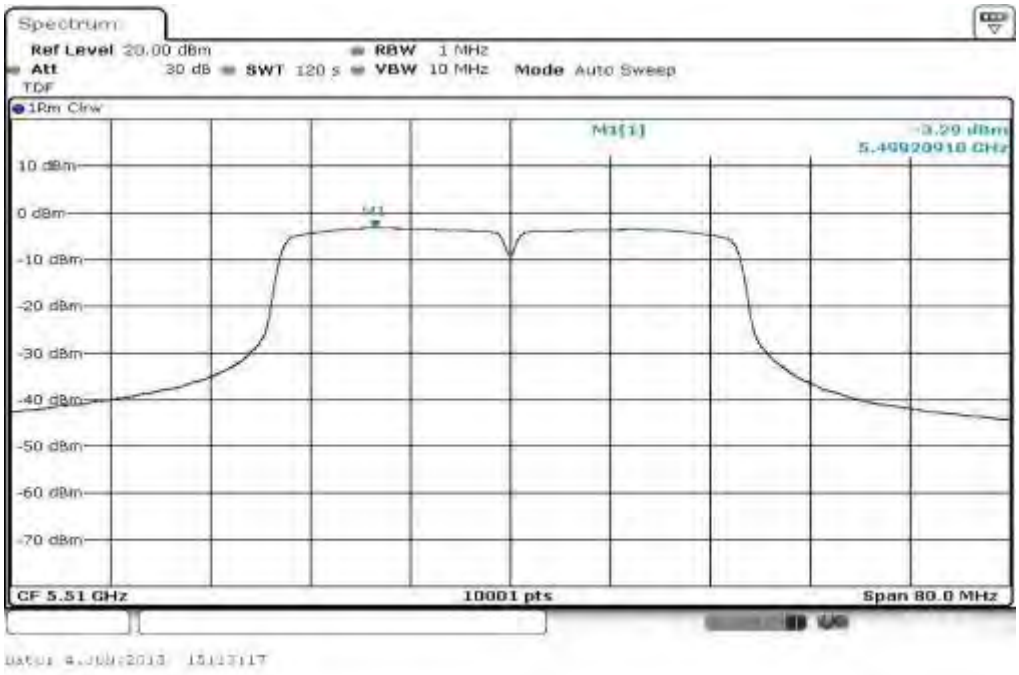
Plot 3: 5270 MHz



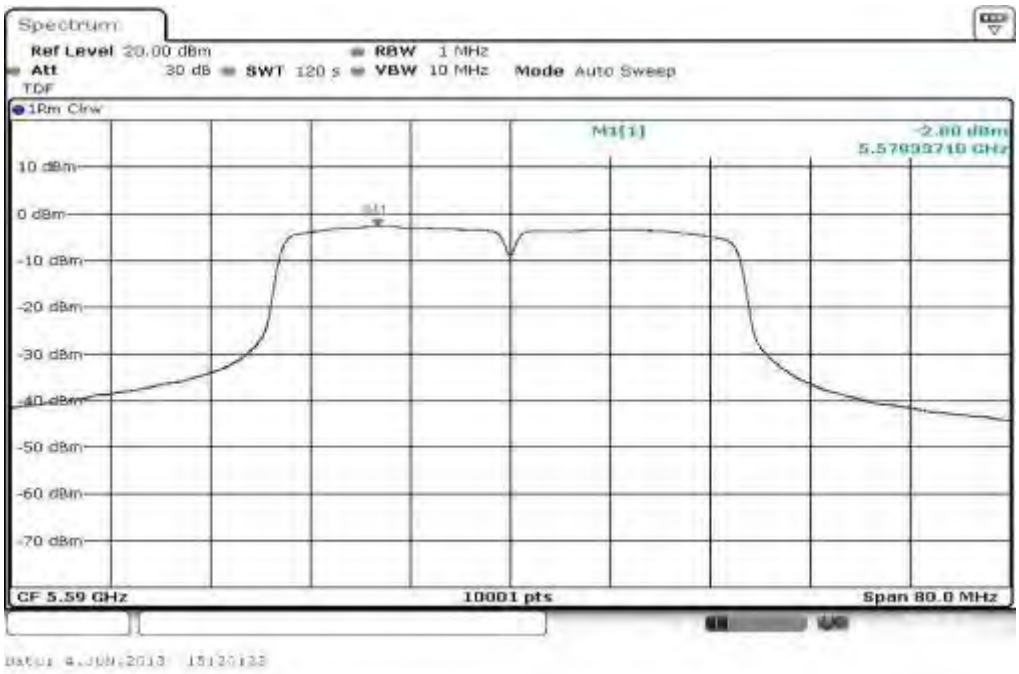
Plot 4: 5310 MHz



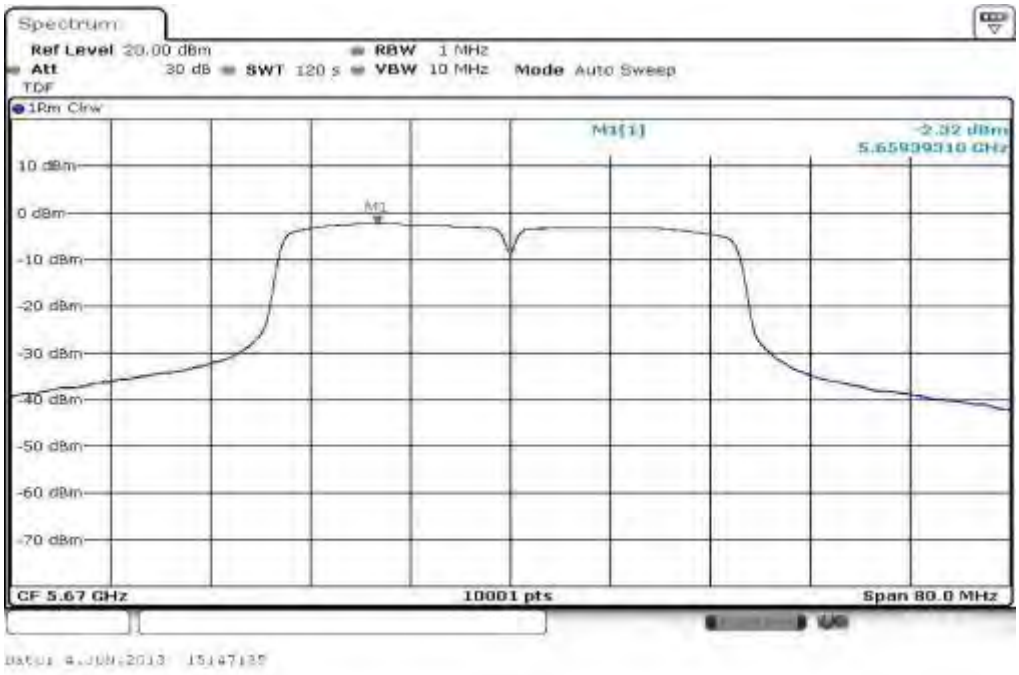
Plot 5: 5510 MHz



Plot 6: 5590 MHz



Plot 7: 5670 MHz



11.4 Spectrum bandwidth – 26 dB bandwidth

Description:

Measurement of the 26 dB bandwidth of the modulated signal.

Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	1% EBW
Video bandwidth:	≥ RBW
Span:	> complete signal!
Trace-Mode:	Max hold

Limits:

Spectrum Bandwidth – 26 dB Bandwidth
-/-

Result: OFDM / a – mode

OFDM / a – mode	26 dB BANDWIDTH [MHz]			
Channel	5180 MHz	5240 MHz	5260 MHz	5320 MHz
	22.13	21.93	22.43	21.78
Channel	5500 MHz	5600 MHz	5700 MHz	
	22.43	22.03	23.88	
Measurement uncertainty	± 1 dB			

Result: Passed

Result: OFDM / n – mode HT20

OFDM / n – mode HT20	26 dB BANDWIDTH [MHz]			
Channel	5180 MHz	5240 MHz	5260 MHz	5320 MHz
	22.63	22.48	22.58	23.13
Channel	5500 MHz	5600 MHz	5700 MHz	
	22.83	23.28	25.23	
Measurement uncertainty	± 1 dB			

Result: Passed

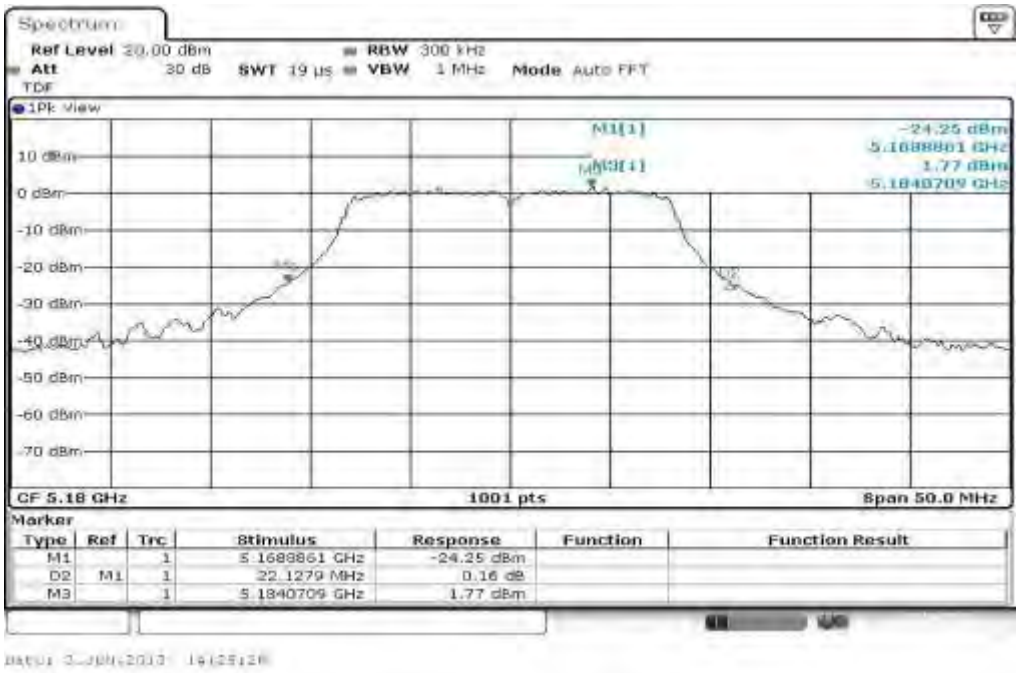
Result: OFDM / n – mode HT40

OFDM / n – mode HT40	26 dB BANDWIDTH [MHz]			
Channel	5190 MHz	5230 MHz	5270 MHz	5310 MHz
	43.80	44.12	43.24	44.68
Channel	5510 MHz	5590 MHz	5670 MHz	-/-
	44.12	43.32	46.59	-/-
Measurement uncertainty	± 1 dB			

Result: Passed

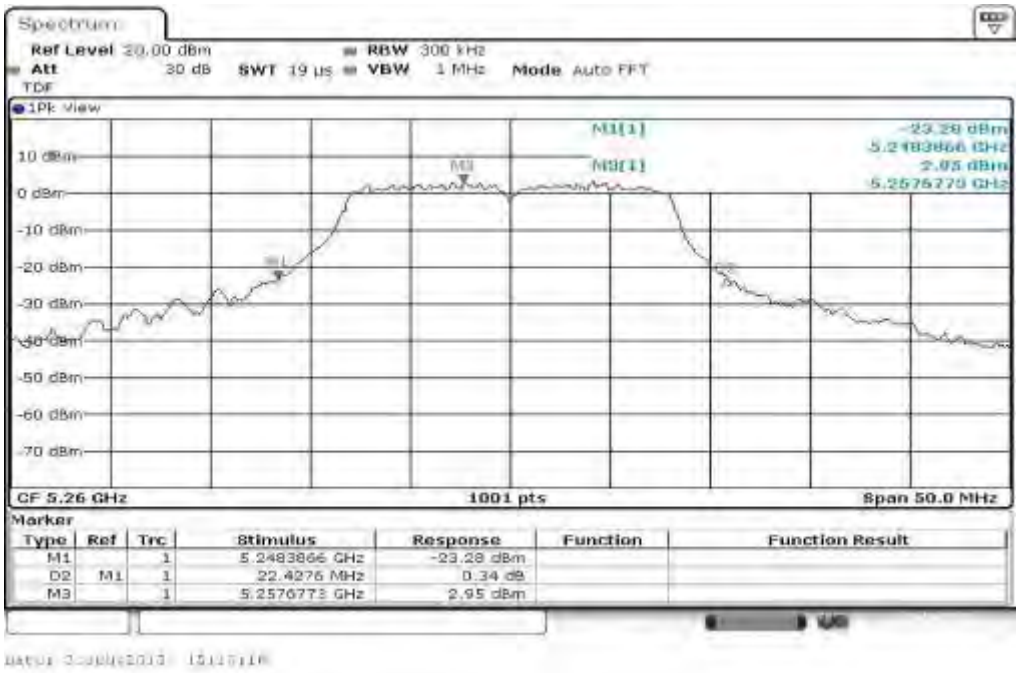
Plots: OFDM / a – mode

Plot 1: 5180 MHz

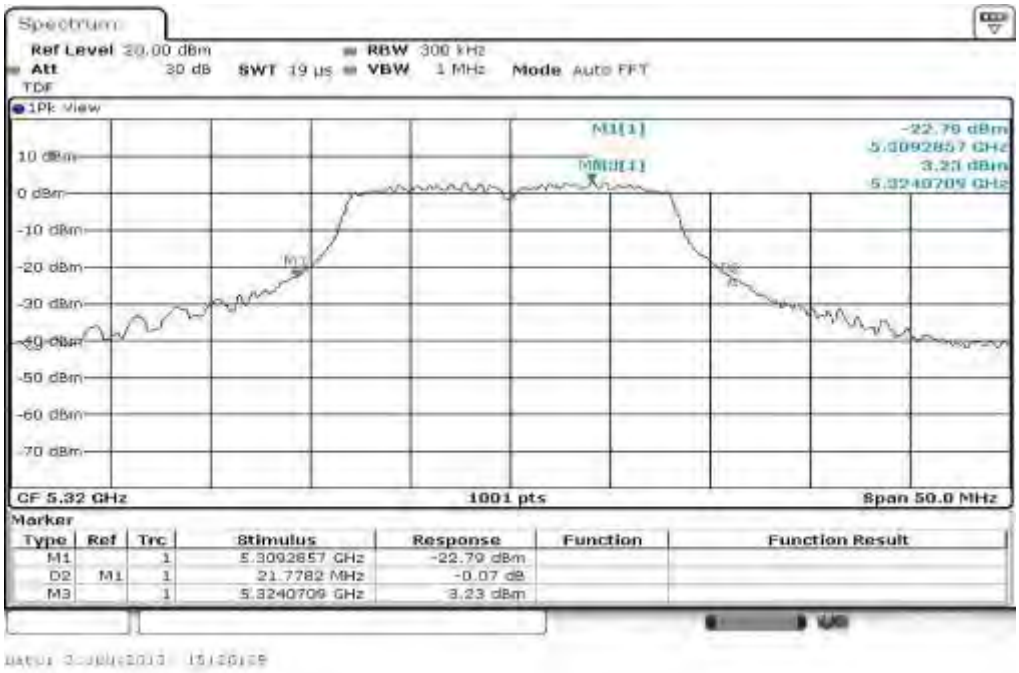


Plot 2: 5240 MHz

Plot 3: 5260 MHz

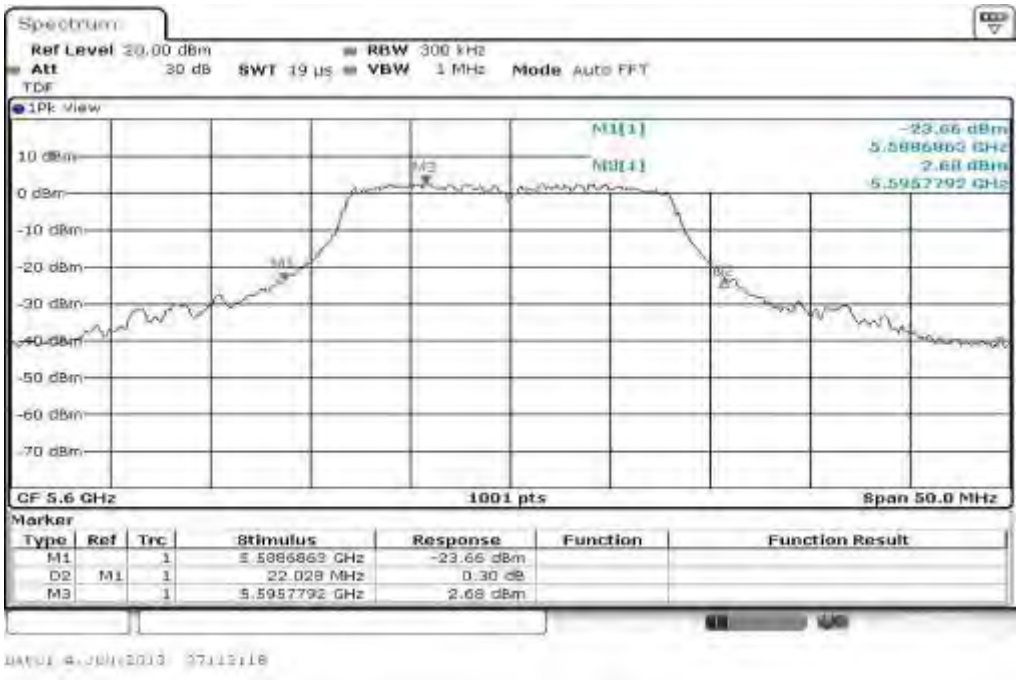


Plot 4: 5320 MHz

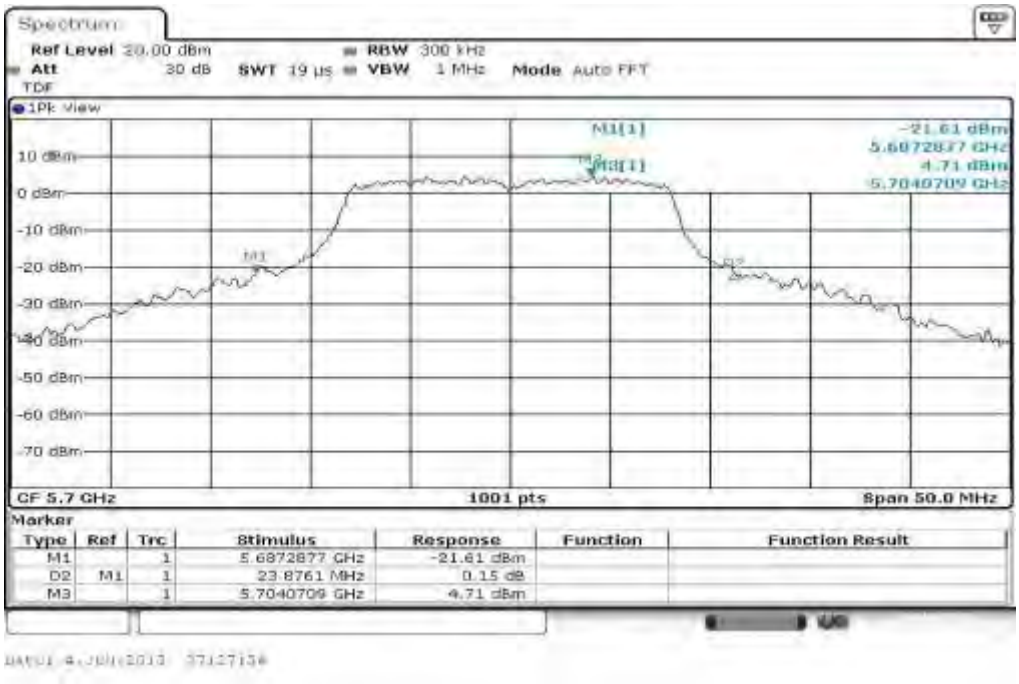


Plot 5: 5500 MHz

Plot 6: 5600 MHz

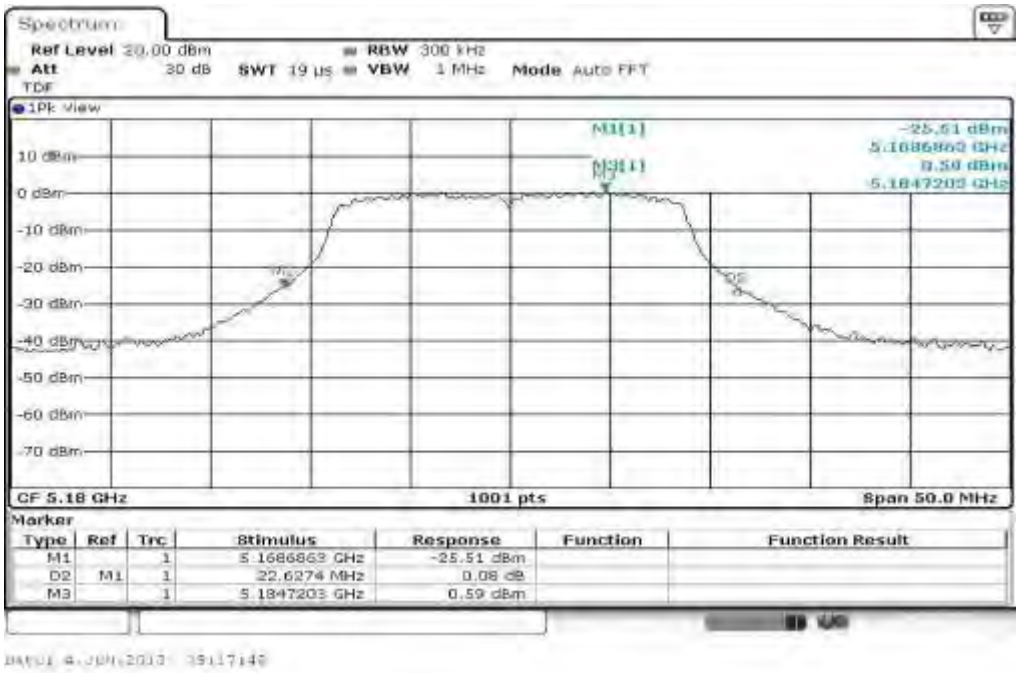


Plot 7: 5700 MHz

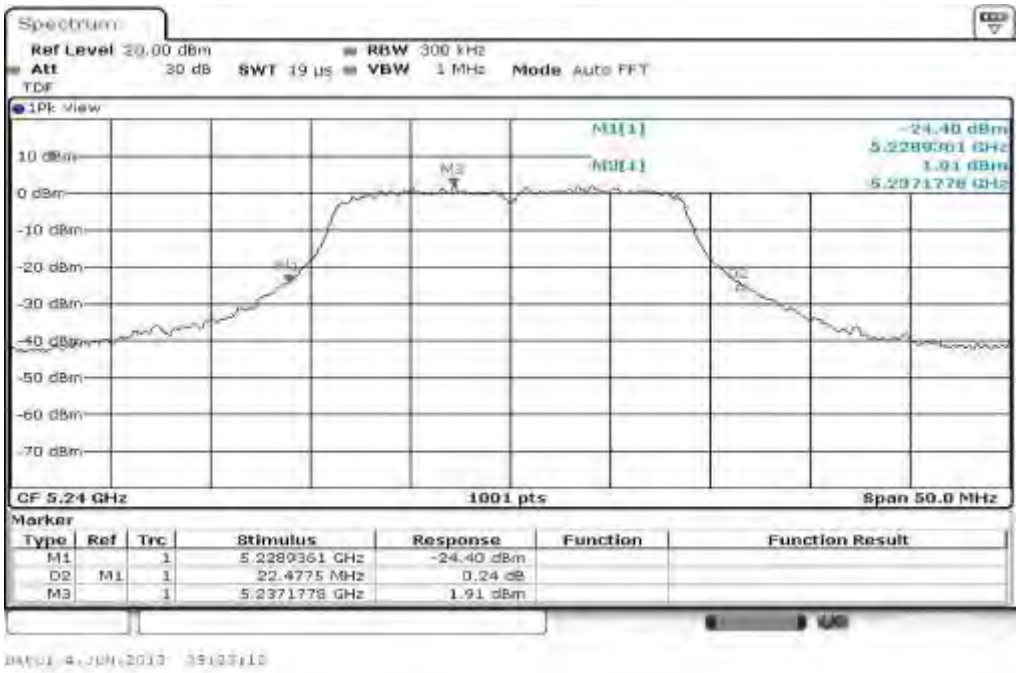


Plots: OFDM / n – mode HT20

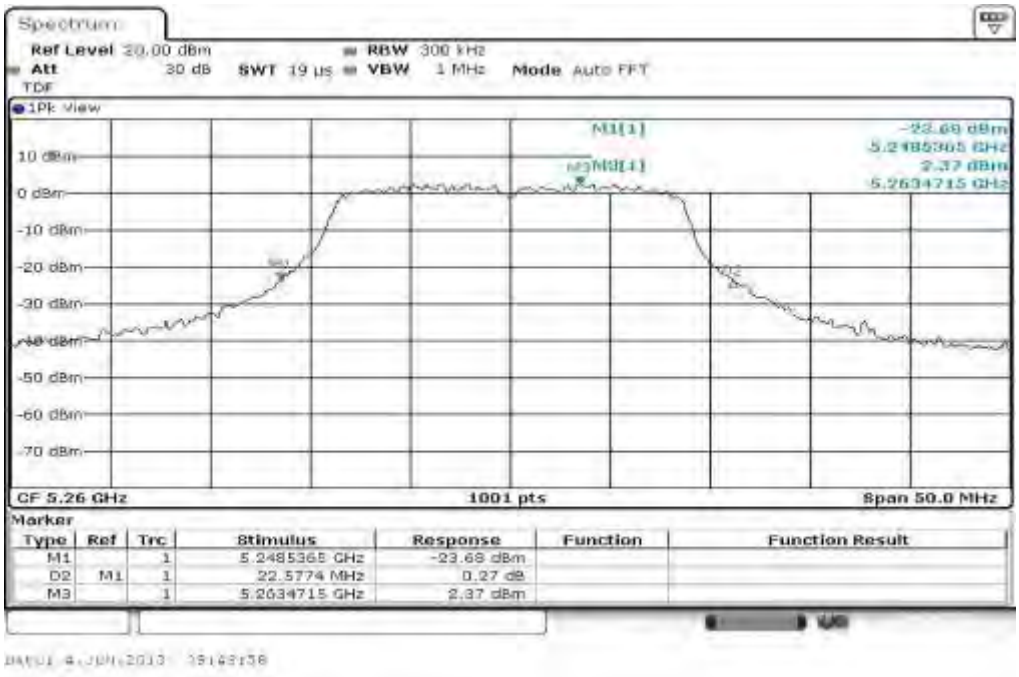
Plot 1: 5180 MHz



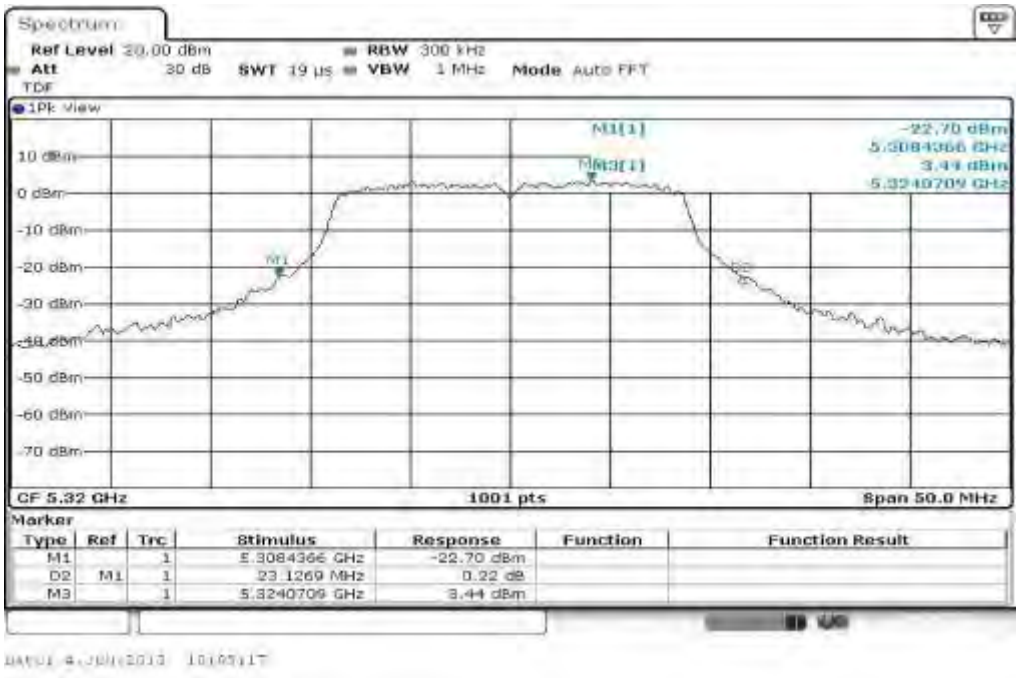
Plot 2: 5240 MHz



Plot 3: 5260 MHz

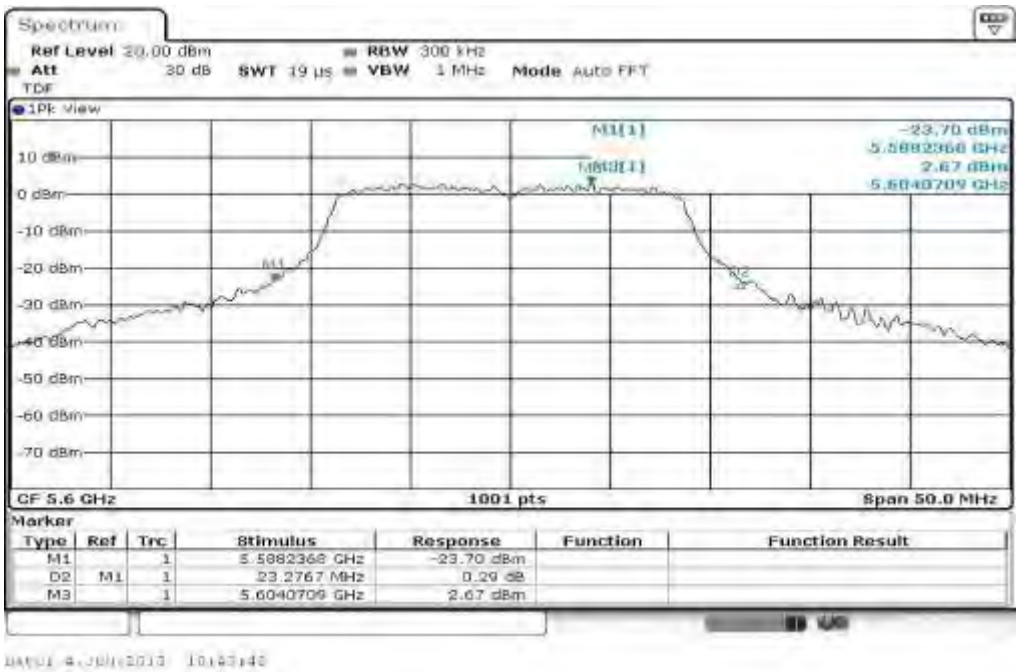


Plot 4: 5320 MHz

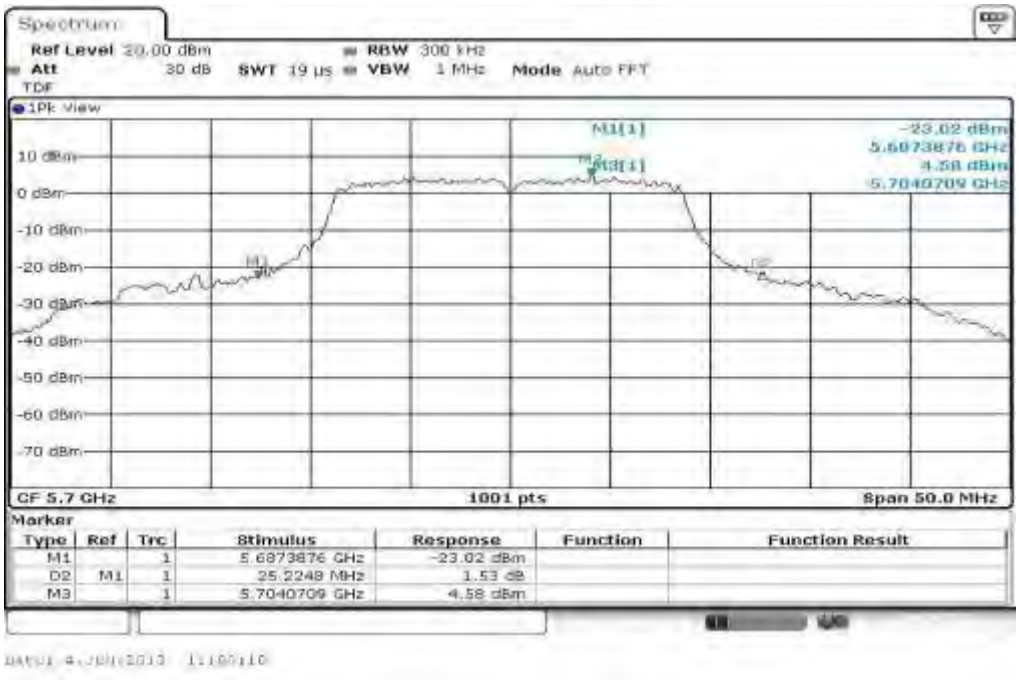


Plot 5: 5500 MHz

Plot 6: 5600 MHz

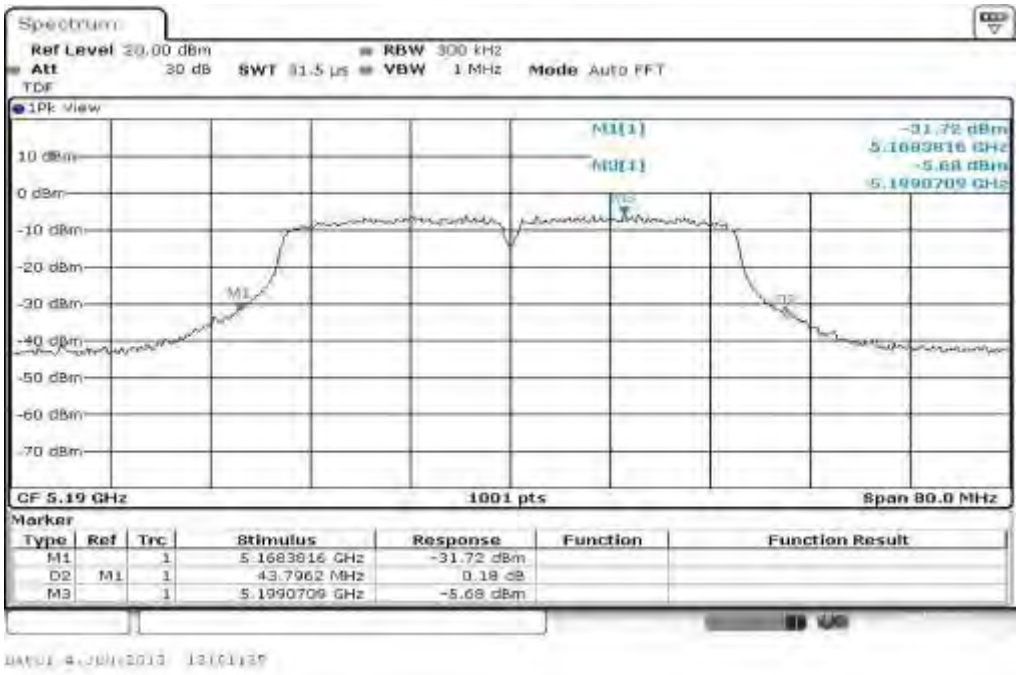


Plot 7: 5700 MHz



Plots: OFDM / n – mode HT40

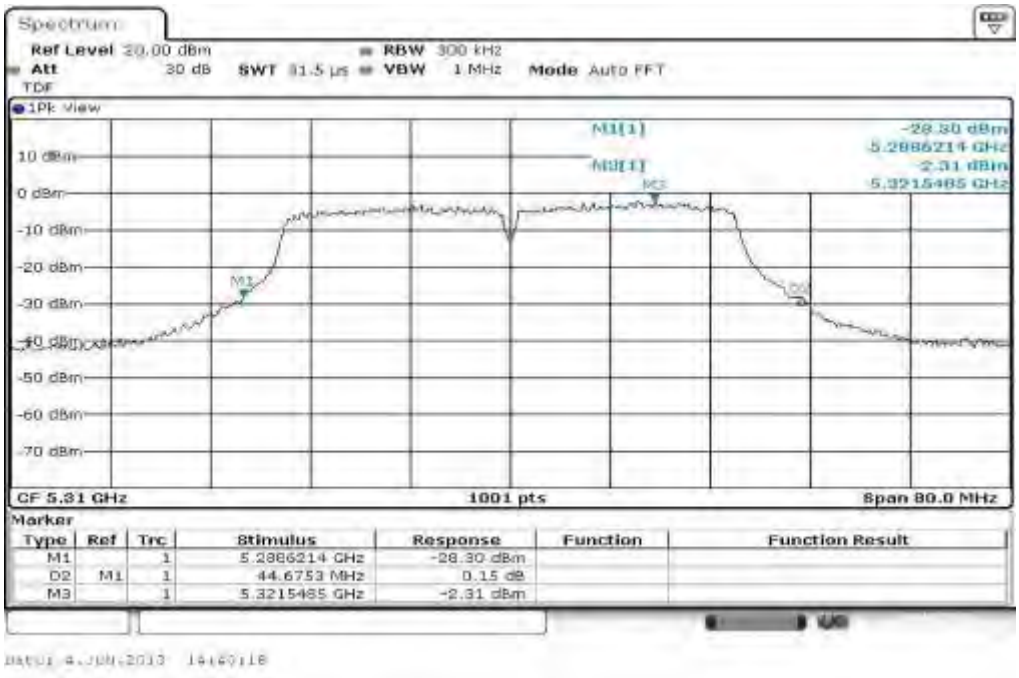
Plot 1: 5190 MHz



Plot 2: 5230 MHz

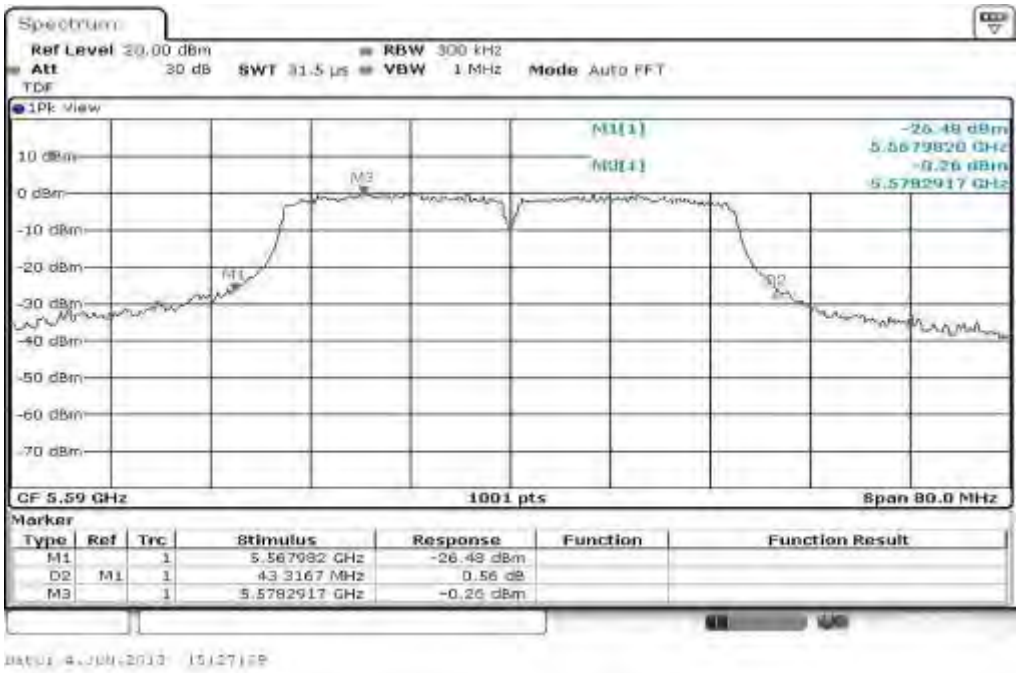
Plot 3: 5270 MHz

Plot 4: 5310 MHz



Plot 5: 5510 MHz

Plot 6: 5590 MHz



Plot 7: 5670 MHz

11.5 Peak excursion measurements

Description:

Peak to average value.

Measurement:

Measurement parameter	
Detector:	Peak
Sweep time:	60 s / 120 s
Resolution bandwidth:	1 MHz
Video bandwidth:	≥ 3 MHz
Span:	> Complete signal
Trace-Mode:	Max hold

Limits:

Peak excursion value
Does not exceed 13 dB.

Results OFDM / a - mode:

Modulation OFDM / a – mode	Peak excursion value		
Channel	5180 MHz	5240 MHz	5260 MHz
RMS	-1.32	-0.08	-0.07
Peak	8.15	9.45	9.83
Peak excursion value	9.47	9.53	9.90
Channel	5320 MHz	5500 MHz	5600 MHz
RMS	0.20	0.14	0.44
Peak	10.73	9.92	9.92
Peak excursion value	10.53	9.78	9.48
Channel	5700 MHz		
RMS	1.40		
Peak	11.09		
Peak excursion value	9.69		
Measurement uncertainty	± 1 dB		

Result: **Passed**

Results OFDM / n – mode HT20:

Modulation OFDM / n – mode HT20	Peak excursion value		
Channel	5180 MHz	5240 MHz	5260 MHz
RMS	-2.17	-0.91	-0.38
Peak	7.73	8.83	9.24
Peak excursion value	9.99	9.74	9.62
Channel	5320 MHz	5500 MHz	5600 MHz
RMS	0.83	0.11	0.12
Peak	10.81	9.90	10.12
Peak excursion value	9.98	9.79	10.00
Channel	5700 MHz		
RMS	1.58		
Peak	11.37		
Peak excursion value	9.79		
Measurement uncertainty	± 1 dB		

Result: **Passed**

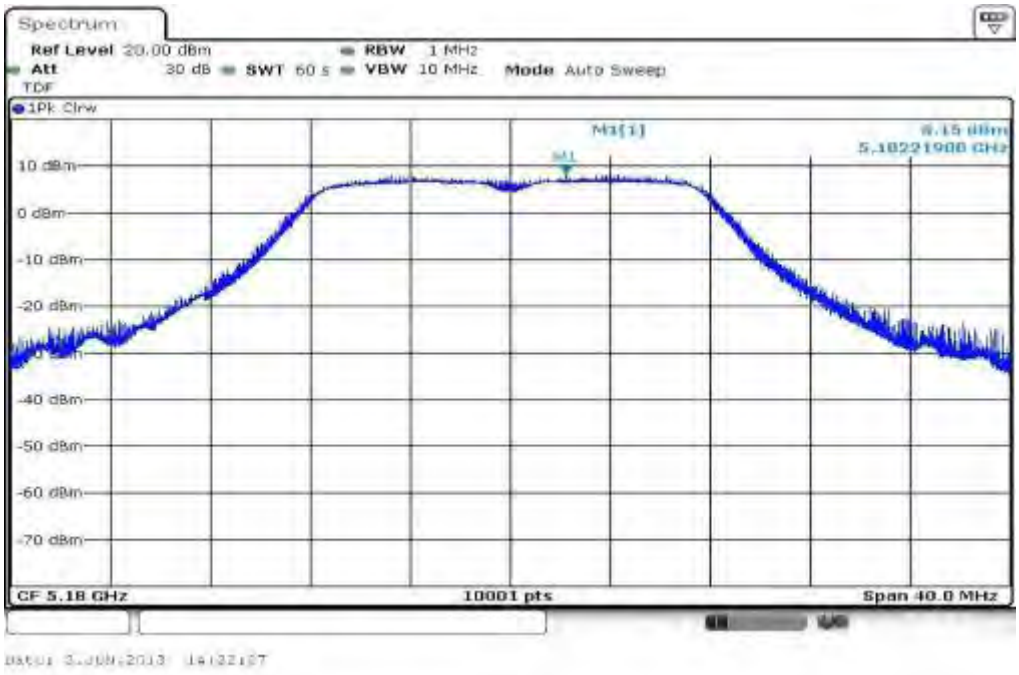
Results OFDM / n – modeHT40:

Modulation OFDM / n – mode HT40	Peak excursion value		
Channel	5190 MHz	5230 MHz	5270 MHz
RMS	-9.04	-3.74	-0.86
Peak	1.42	6.28	6.12
Peak excursion value	10.46	10.02	6.98
Channel	5310 MHz	5510 MHz	5590 MHz
RMS	-4.79	-3.29	-2.80
Peak	5.38	6.68	6.92
Peak excursion value	10.17	9.97	9.72
Channel	5670 MHz		
RMS	-2.32		
Peak	7.31		
Peak excursion value	9.63		
Measurement uncertainty	± 1 dB		

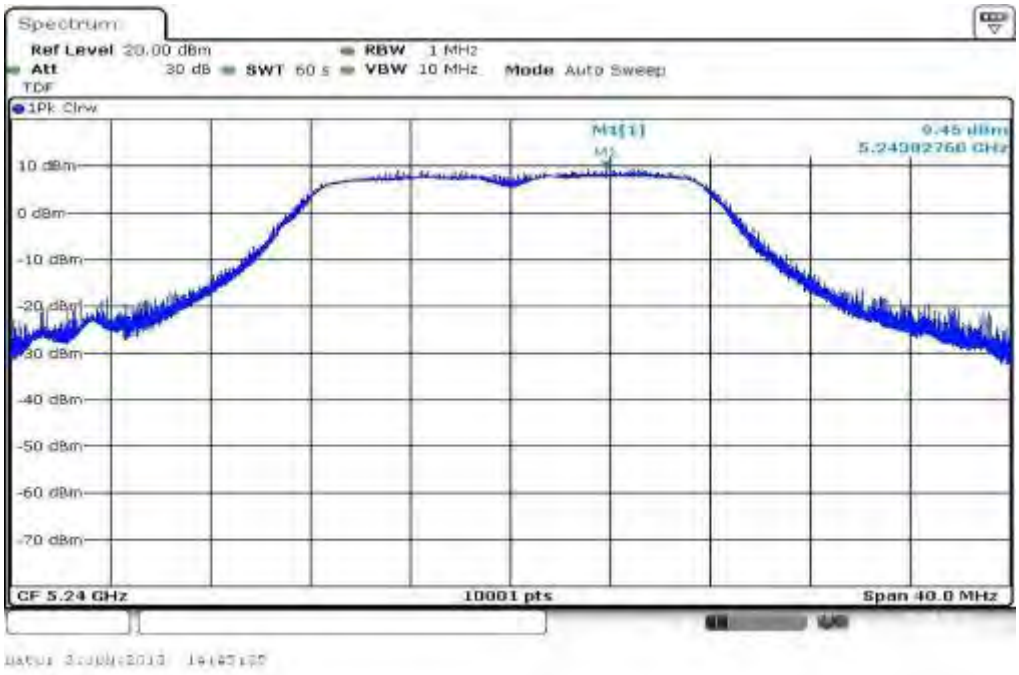
Result: **Passed**

Plots: OFDM / a – mode

Plot 1: 5180 MHz

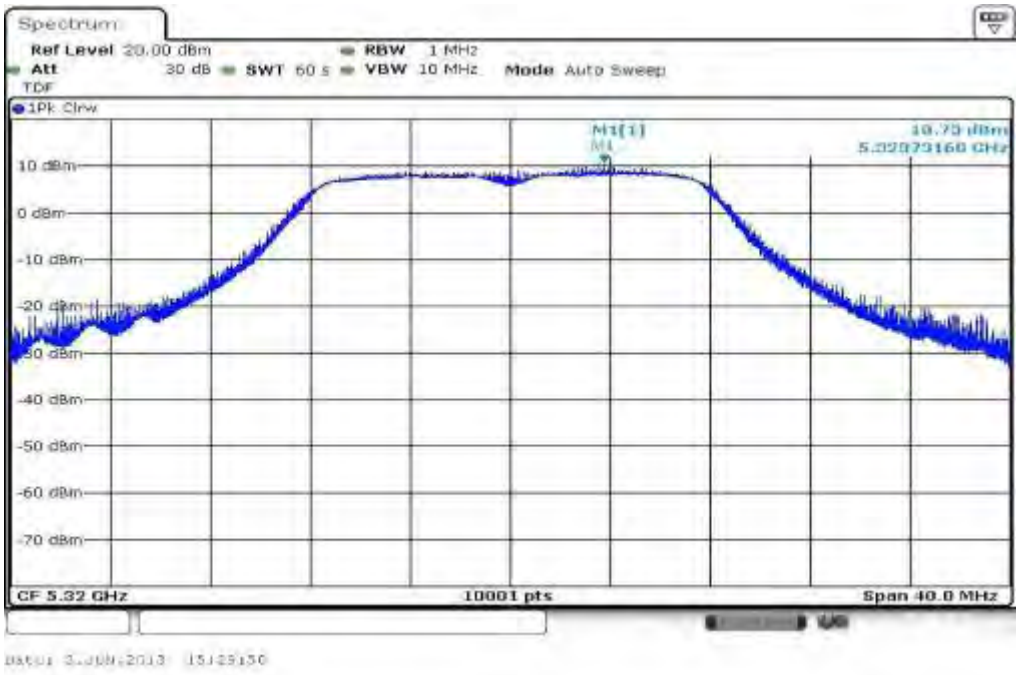


Plot 2: 5240 MHz



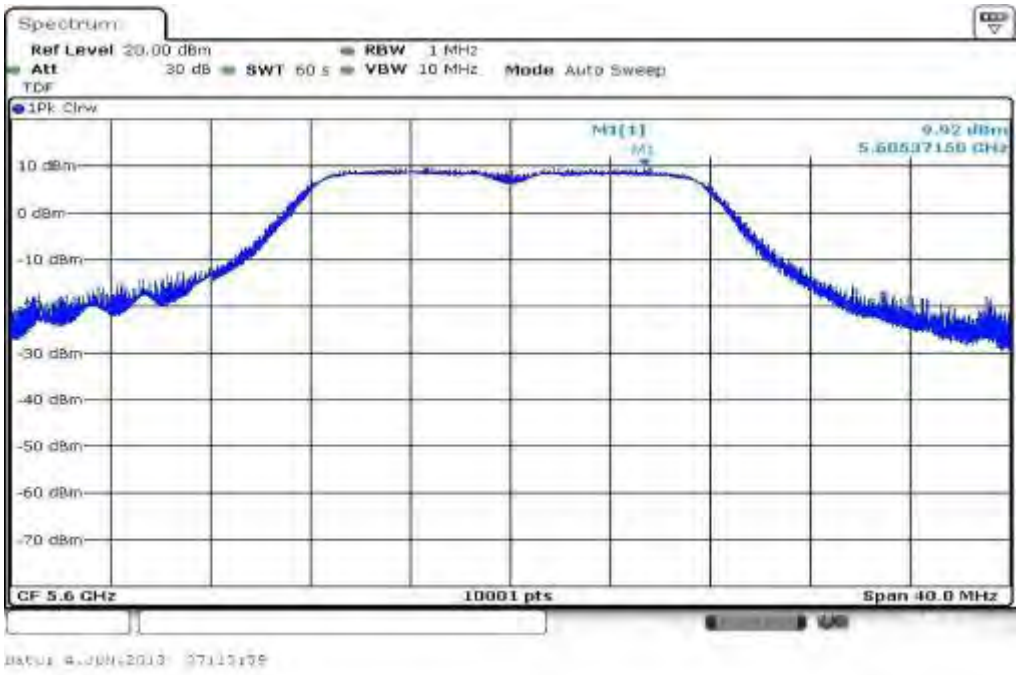
Plot 3: 5260 MHz

Plot 4: 5320 MHz

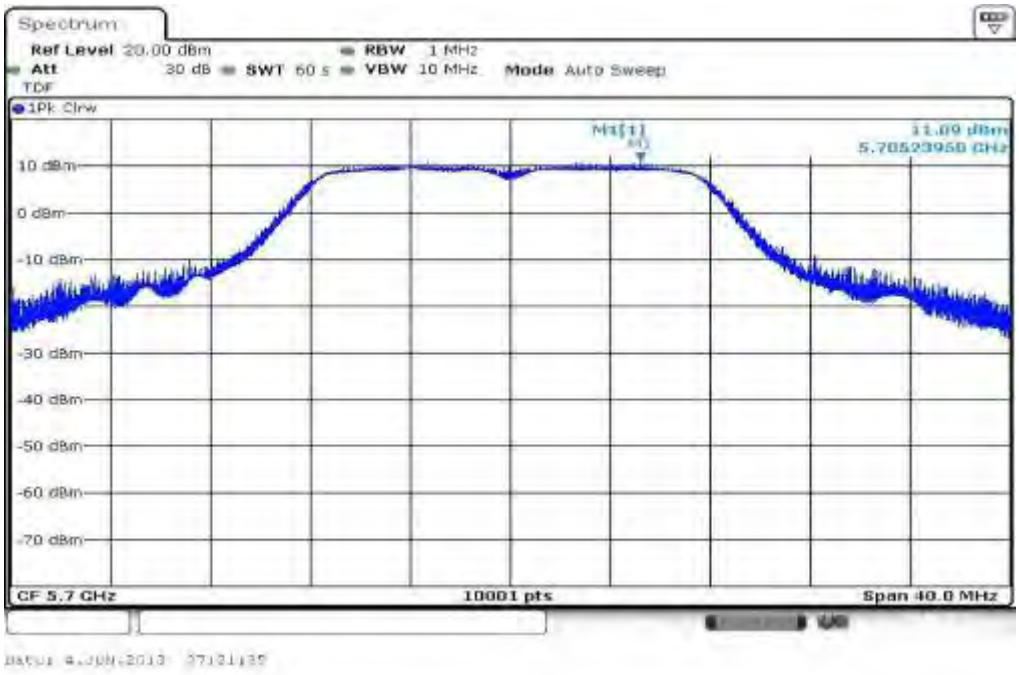


Plot 5: 5500 MHz

Plot 6: 5600 MHz

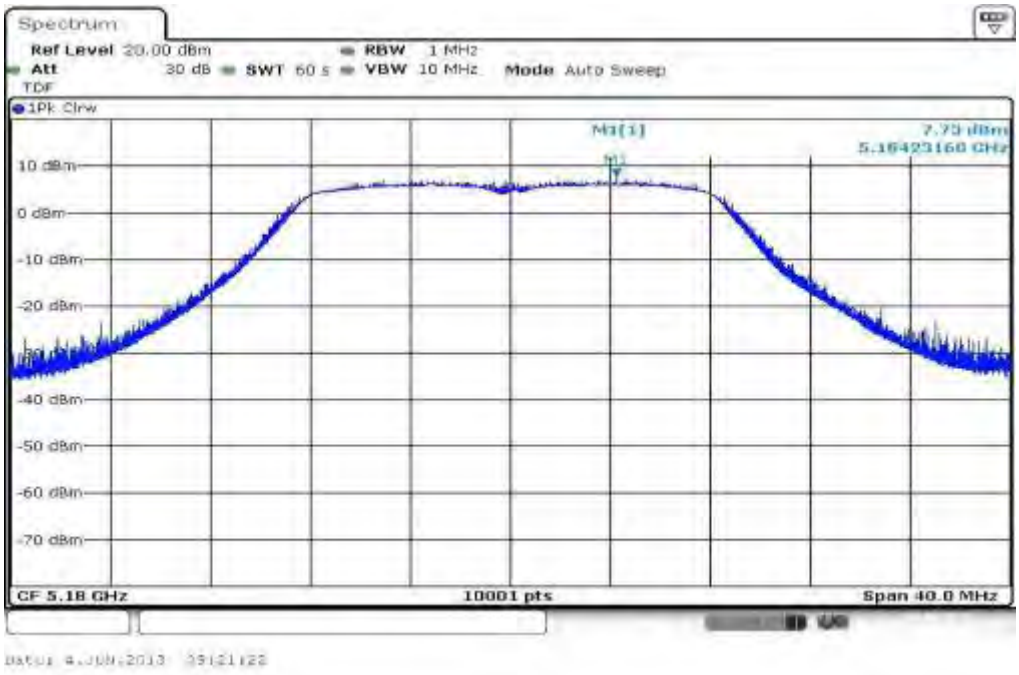


Plot 7: 5700 MHz

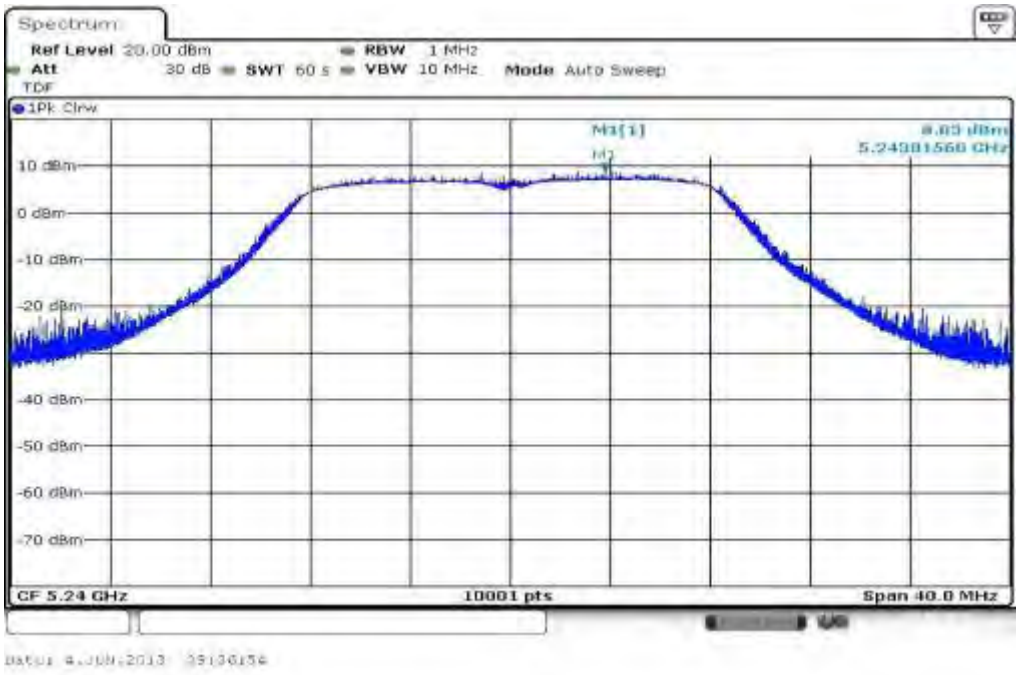


Plots: OFDM / n – mode HT20

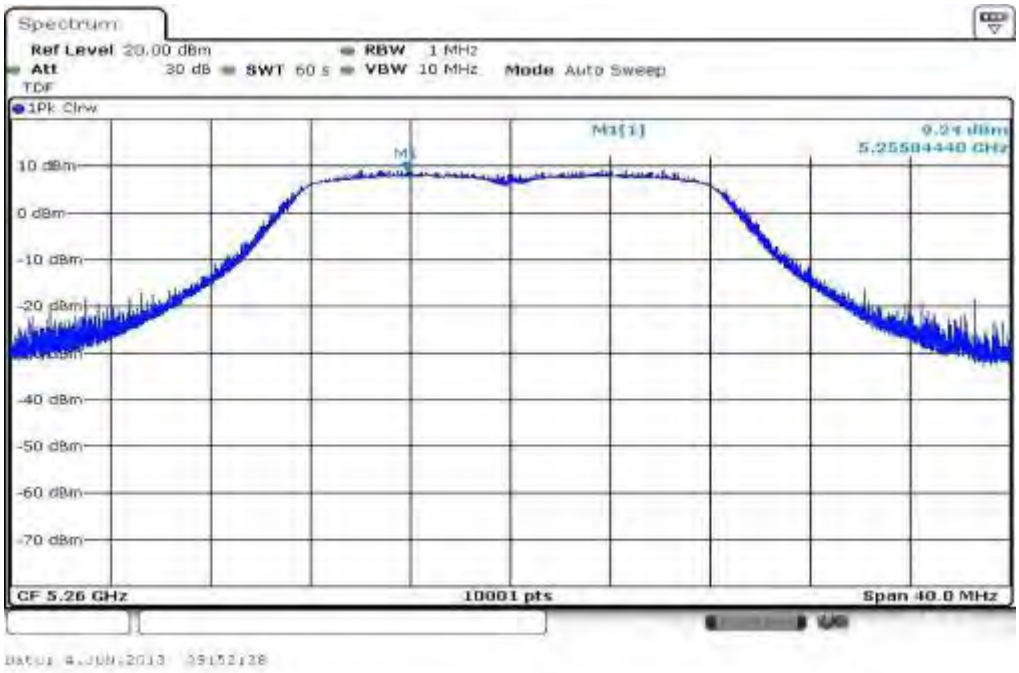
Plot 1: 5180 MHz



Plot 2: 5240 MHz



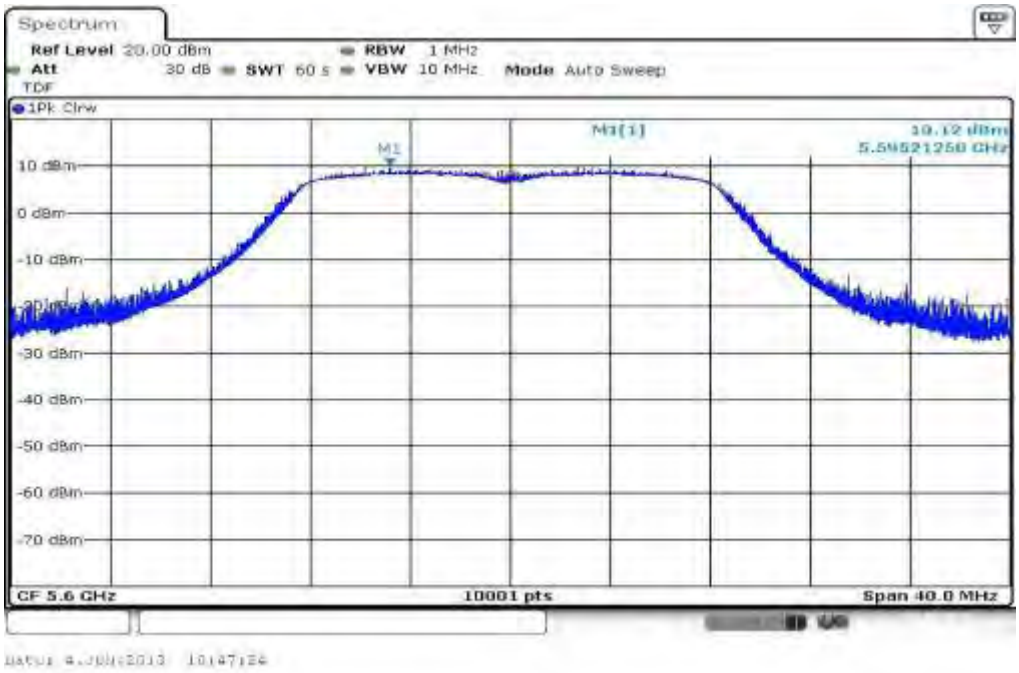
Plot 3: 5260 MHz



Plot 4: 5320 MHz

Plot 5: 5500 MHz

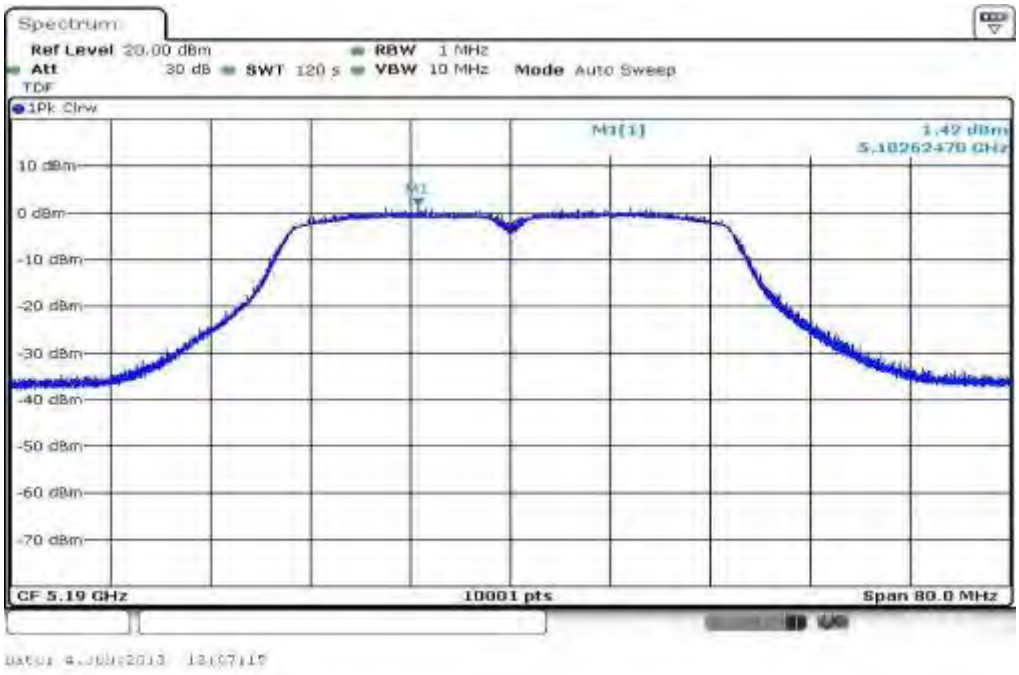
Plot 6: 5600 MHz



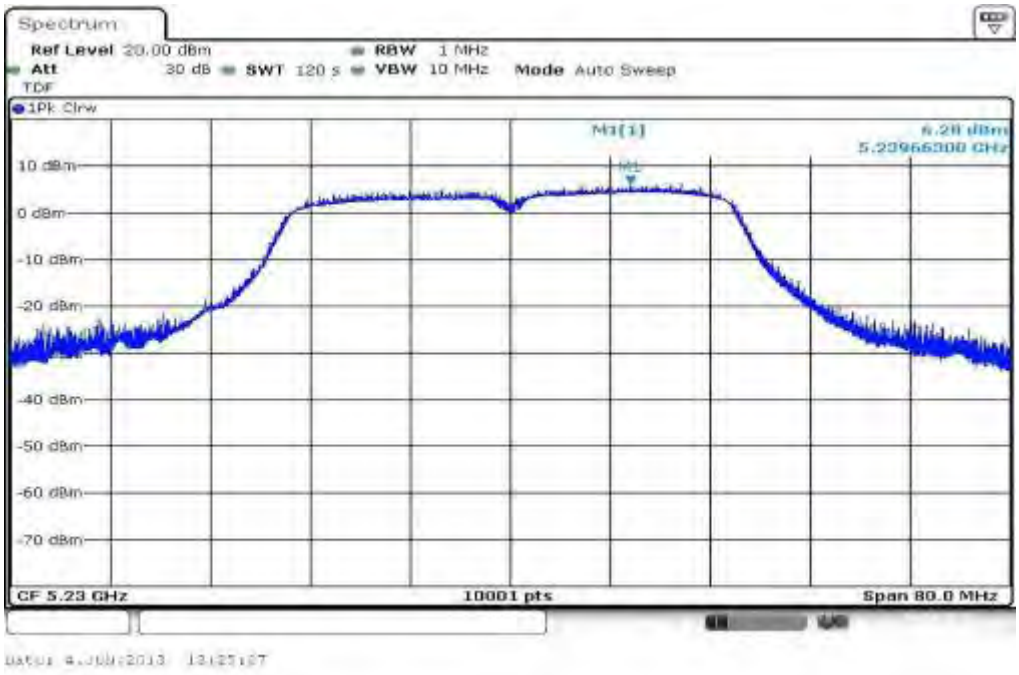
Plot 7: 5700 MHz

Plots: OFDM / n – mode HT40

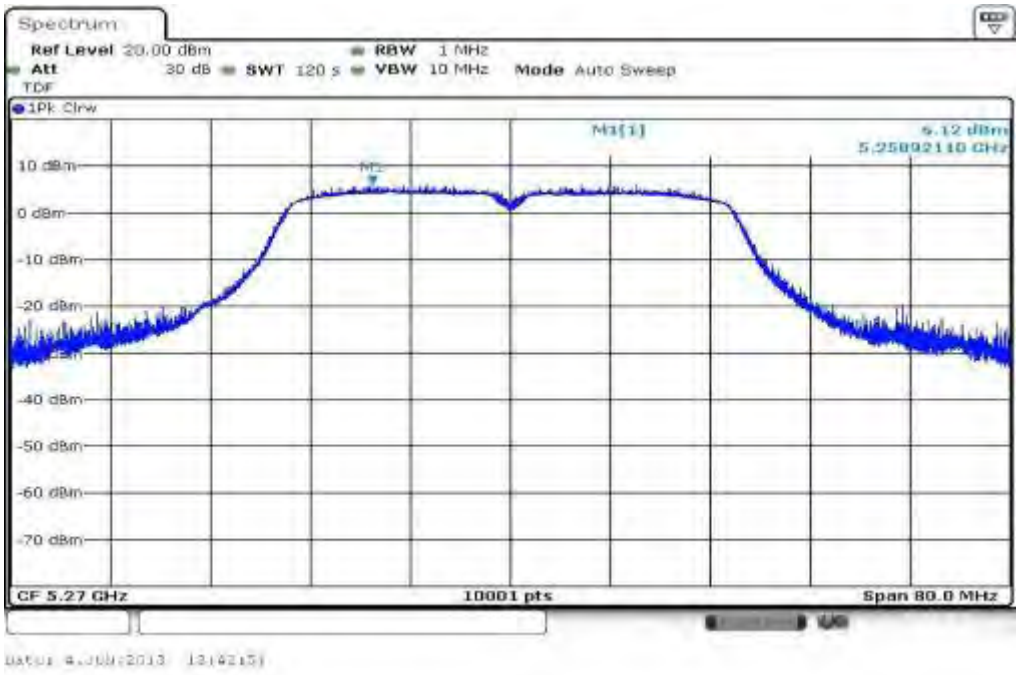
Plot 1: 5190 MHz



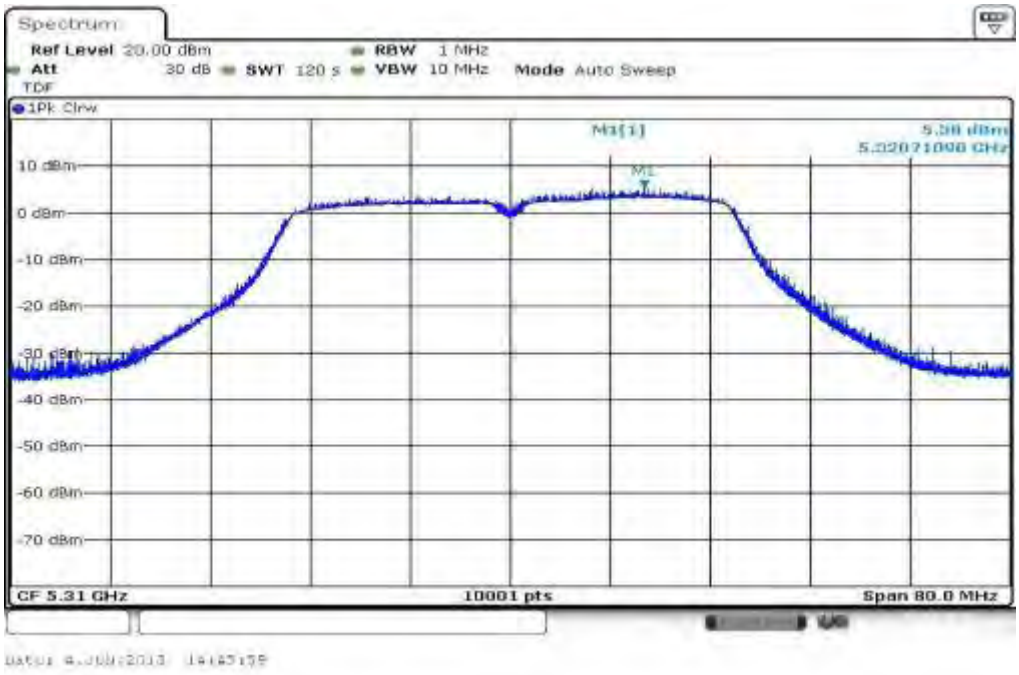
Plot 2: 5230 MHz



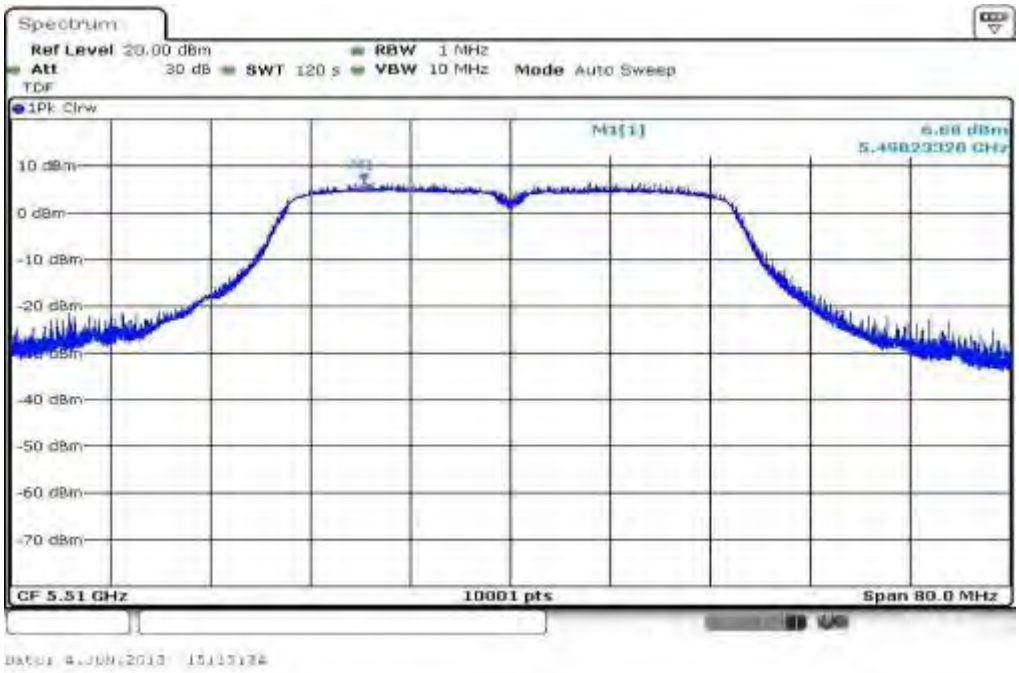
Plot 3: 5270 MHz



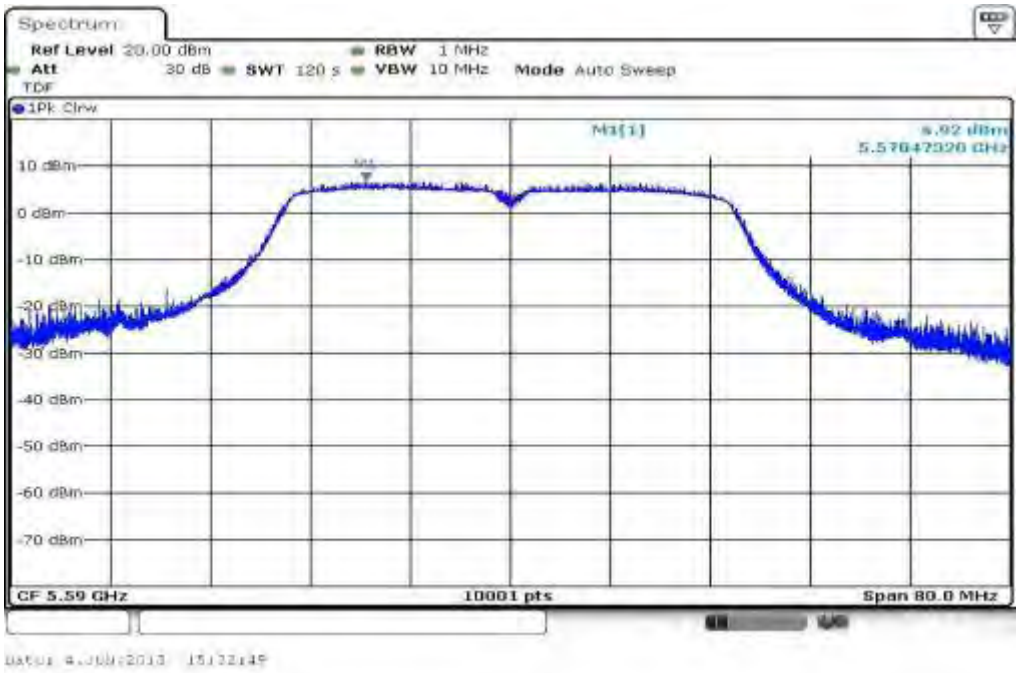
Plot 4: 5310 MHz



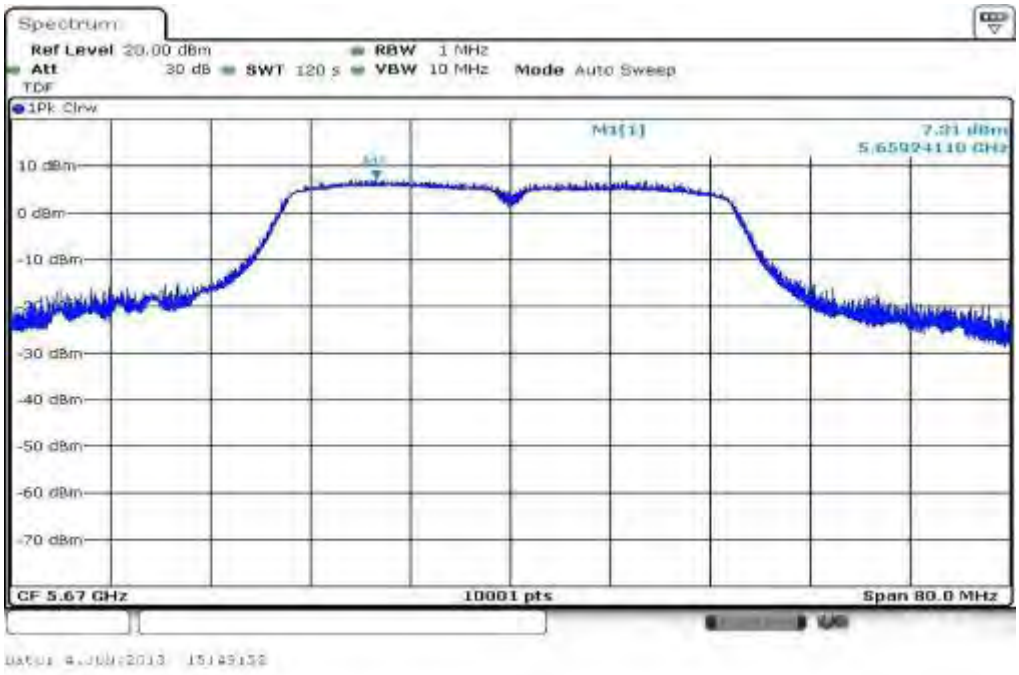
Plot 5: 5510 MHz



Plot 6: 5590 MHz



Plot 7: 5670 MHz



11.6 Band edge compliance radiated

Description:

Measurement of the radiated band edge compliance. The EUT is turned in the position that results in the maximum level at the band edge. Then a sweep over the corresponding restricted band is performed. The EUT is set to the lowest channel for the lower restricted band and to the highest channel for the upper restricted band. Measurement distance is 3m.

Measurement:

Measurement parameter	
Detector:	Peak / RMS
Sweep time:	Auto
Resolution bandwidth:	1 MHz
Video bandwidth:	10 Hz / 1 MHz
Span:	See plots!
Trace-Mode:	Max Hold

Limits:

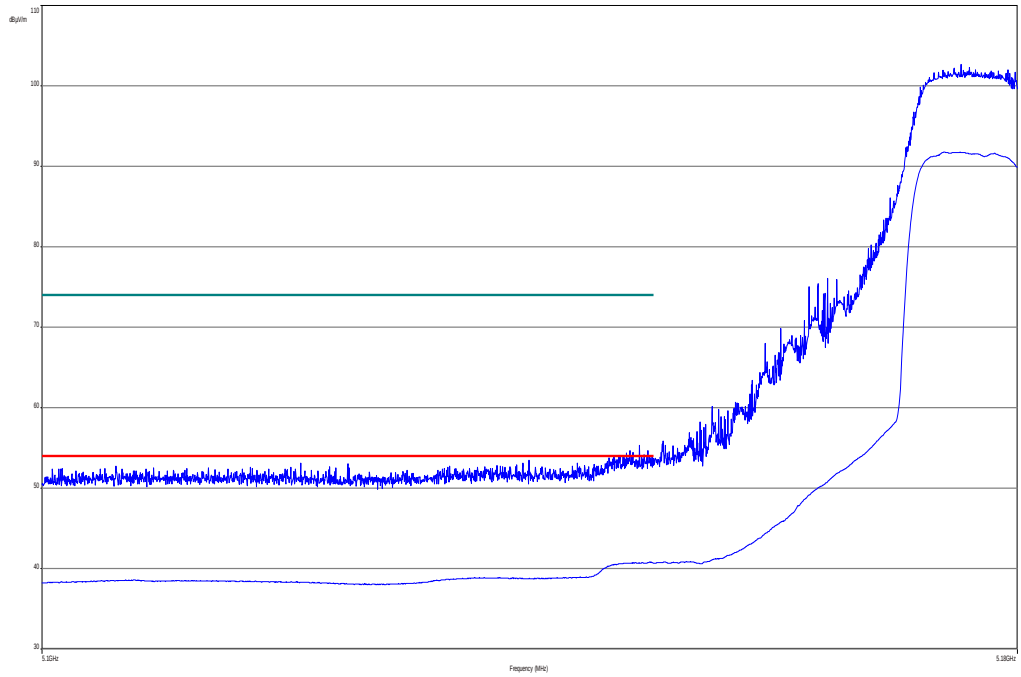
Band Edge Compliance Radiated
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 5.205(c)).
74 dBµV/m PEAK 54 dBµV/m AVG

Result:

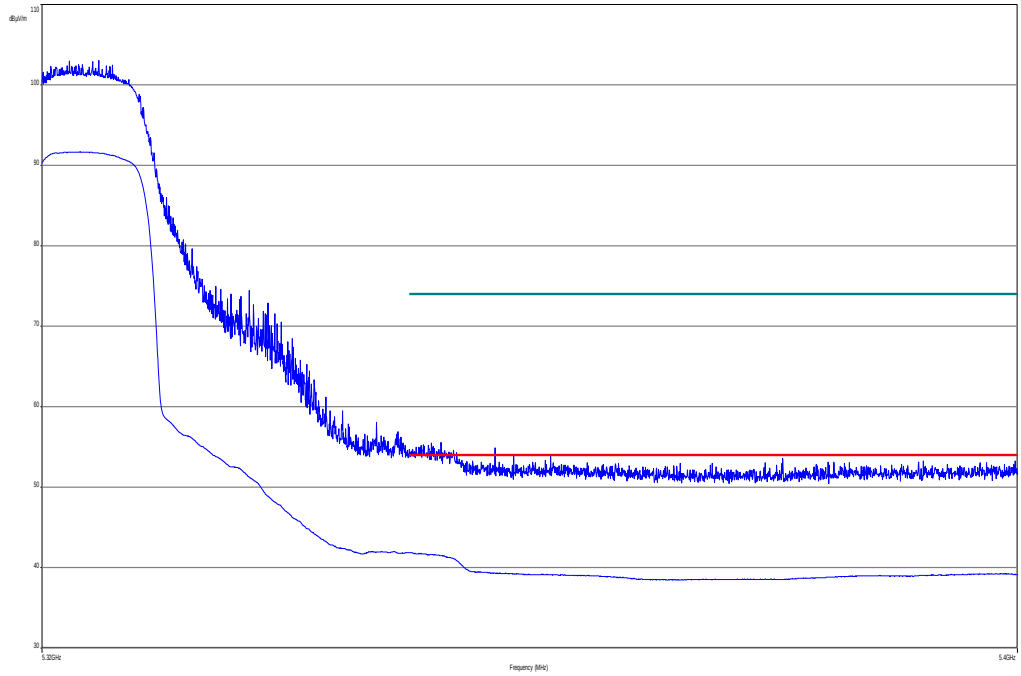
Scenario	Band Edge Compliance Radiated [dBµV/m]
band edge	< 74 dBµV/m (AVG) < 54 dBµV/m (PEAK)
Measurement uncertainty	± 3 dB

Plots: Antenna M3002-66494

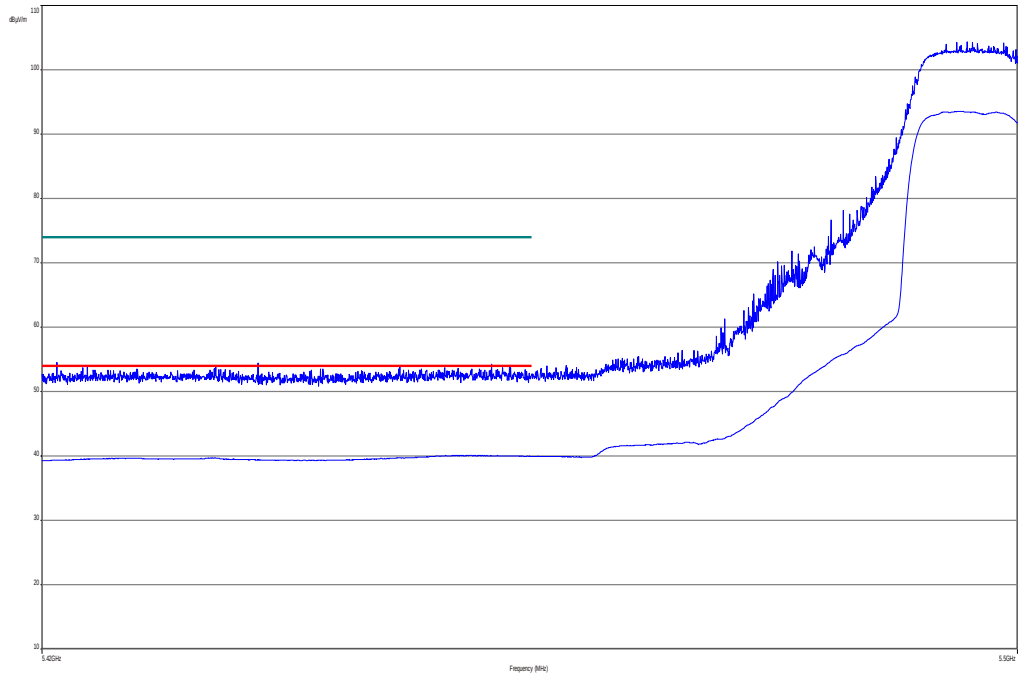
Plot 1: lower band edge, vertical & horizontal polarization (a mode), channel 36



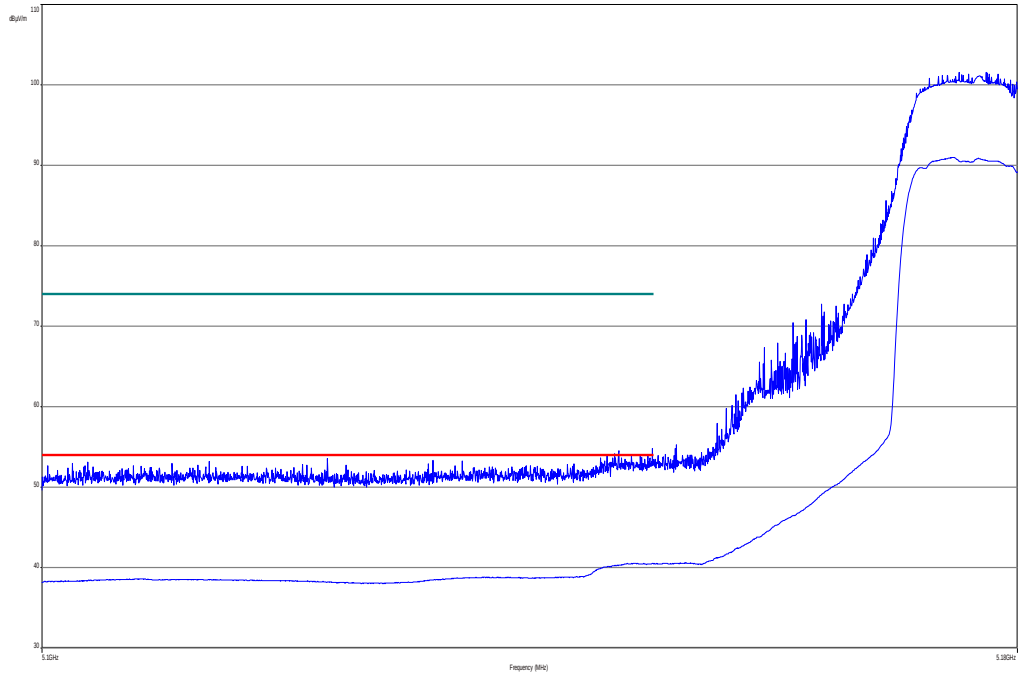
Plot 2: upper band edge, vertical & horizontal polarization (a mode), channel 64



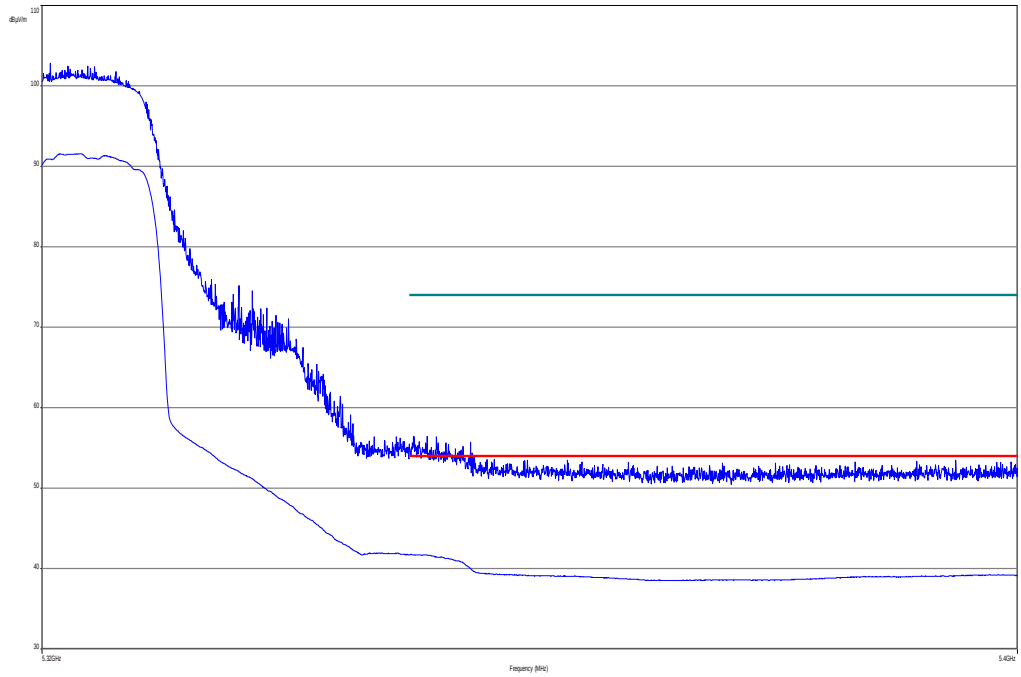
Plot 3: lower band edge, vertical & horizontal polarization (a mode), channel 100



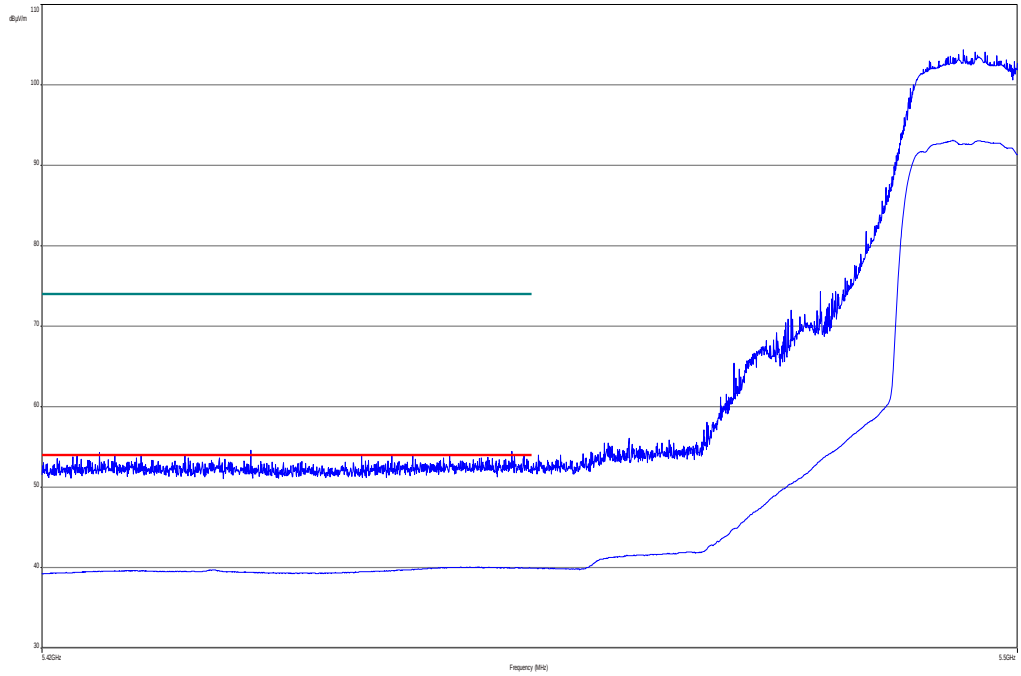
Plot 4: lower band edge, vertical & horizontal polarization (n HT 20 mode), channel 36



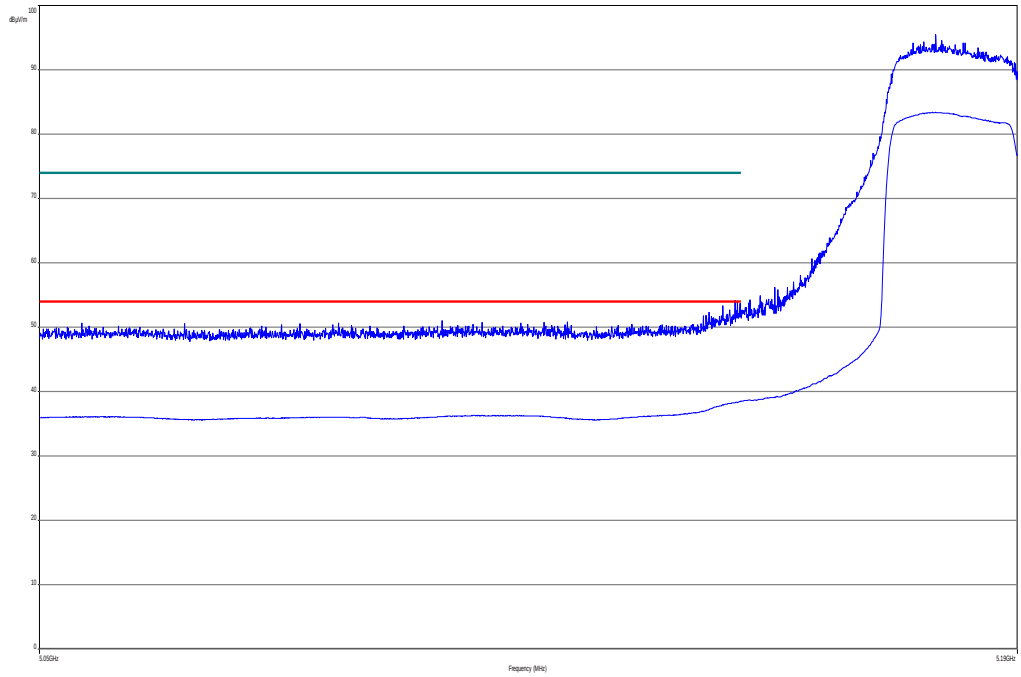
Plot 5: upper band edge, vertical & horizontal polarization (n HT 20 mode), channel 64



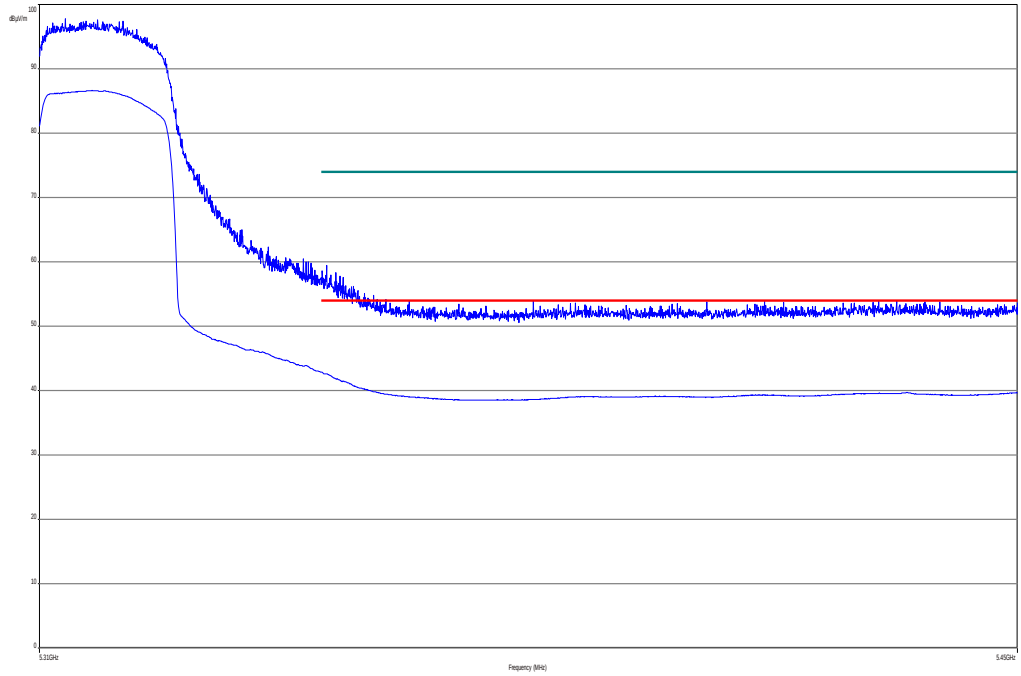
Plot 6: lower band edge, vertical & horizontal polarization (n HT 20 mode), channel 100



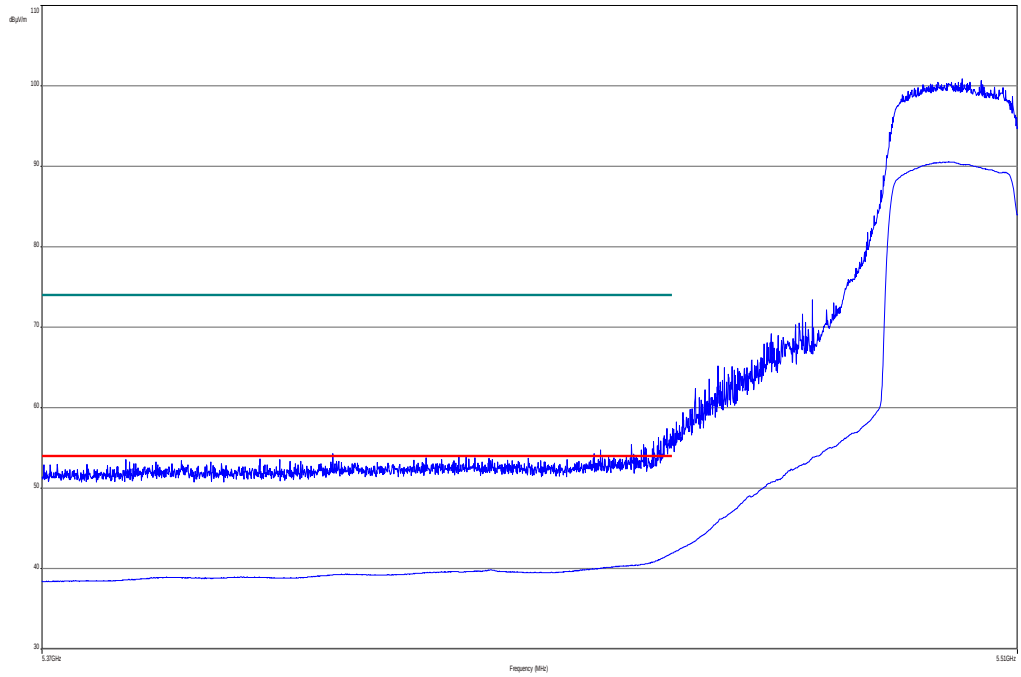
Plot 7: lower band edge, vertical & horizontal polarization (n HT 40 mode), channel 38



Plot 8: upper band edge, vertical & horizontal polarization (n HT 40 mode), channel 62



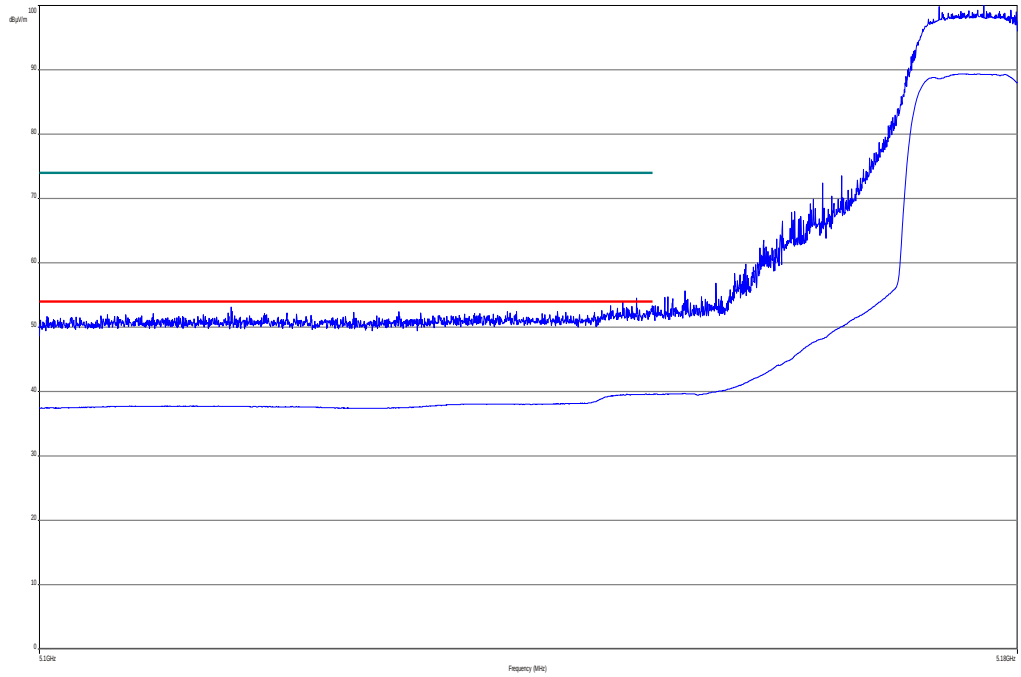
Plot 9: lower band edge, vertical & horizontal polarization (n HT 40 mode), channel 102



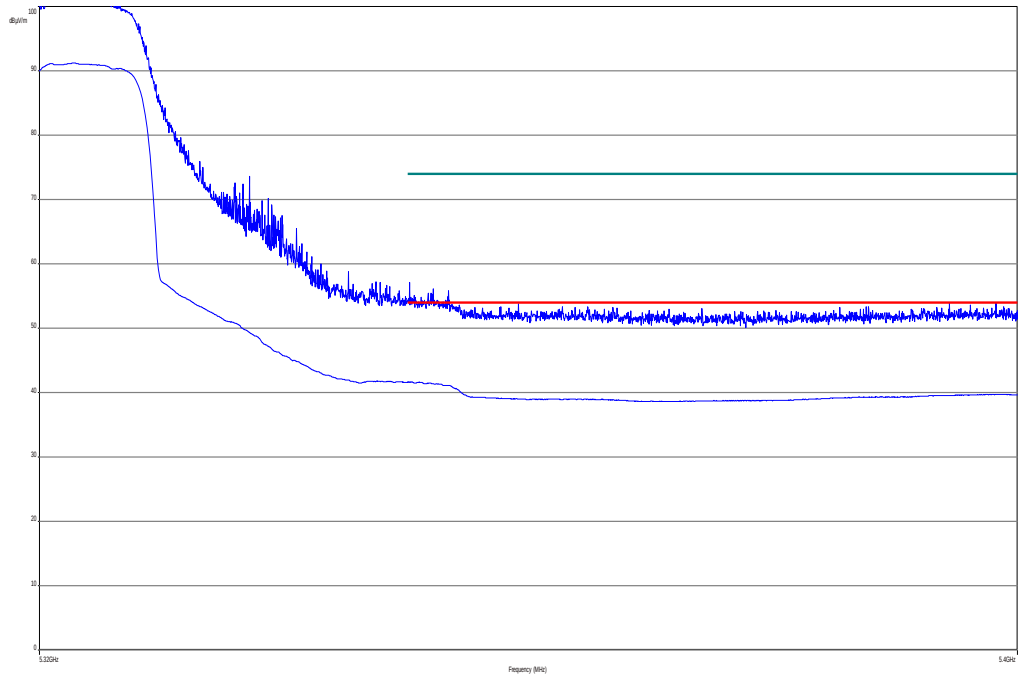
Result: **Passed**

Plots: Antenna 453564154611

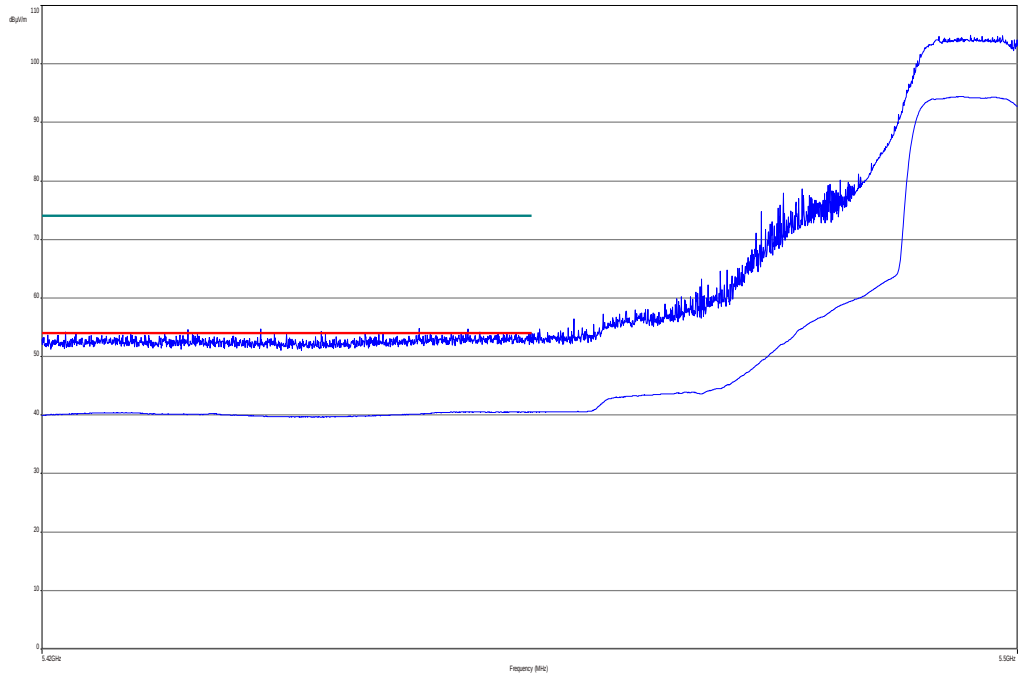
Plot 10: lower band edge, vertical & horizontal polarization (a mode), channel 36



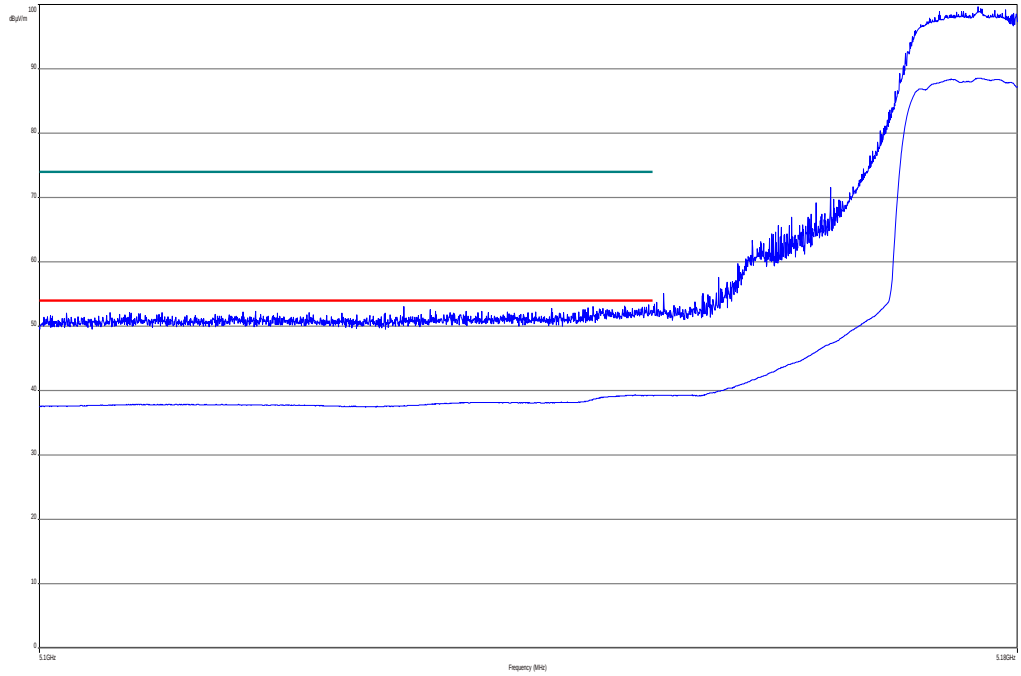
Plot 11: upper band edge, vertical & horizontal polarization (a mode), channel 64



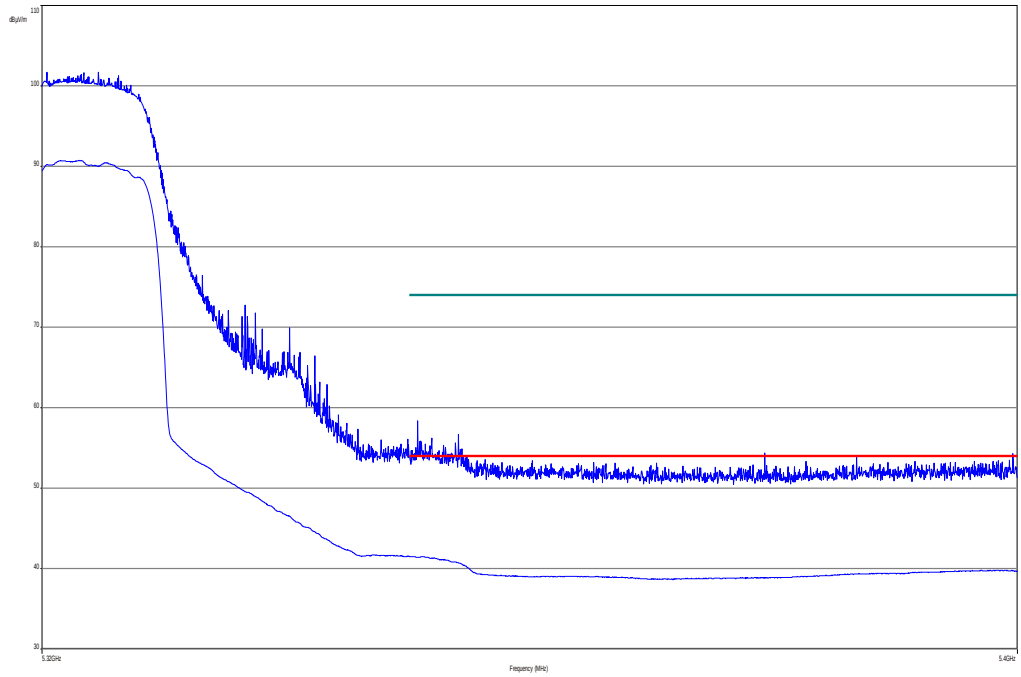
Plot 12: lower band edge, vertical & horizontal polarization (a mode), channel 100



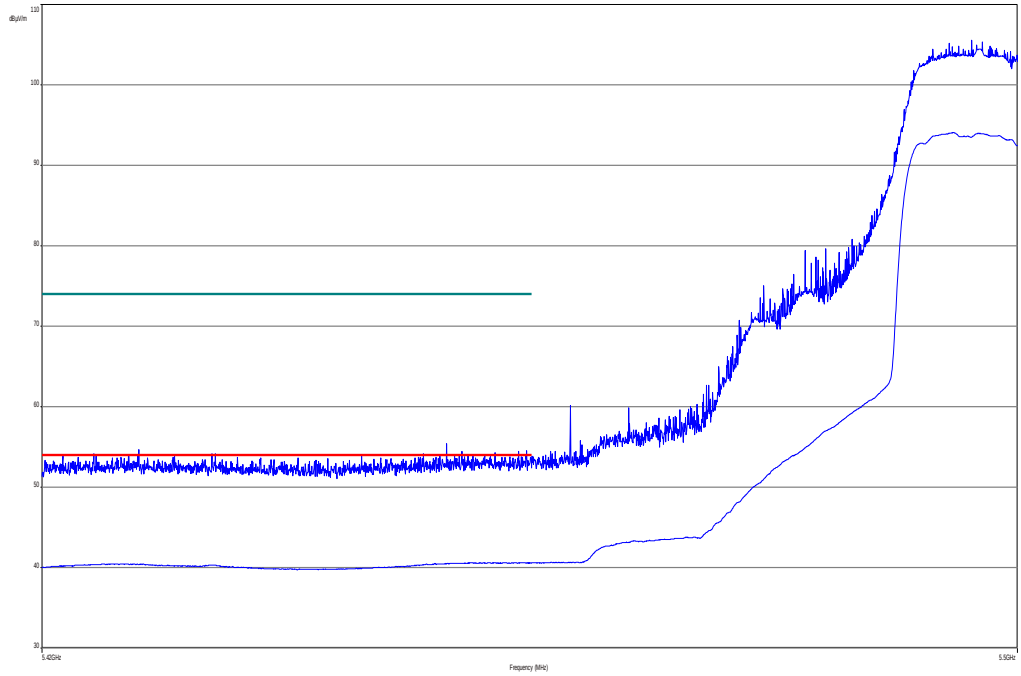
Plot 13: lower band edge, vertical & horizontal polarization (n HT 20 mode), channel 36



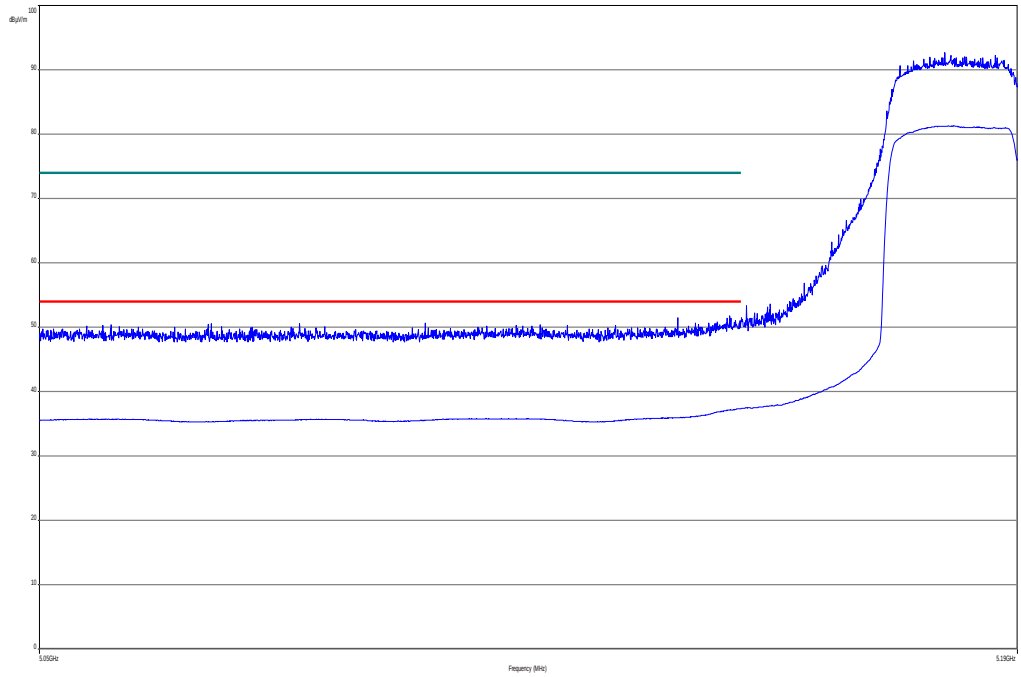
Plot 14: upper band edge, vertical & horizontal polarization (n HT 20 mode), channel 64



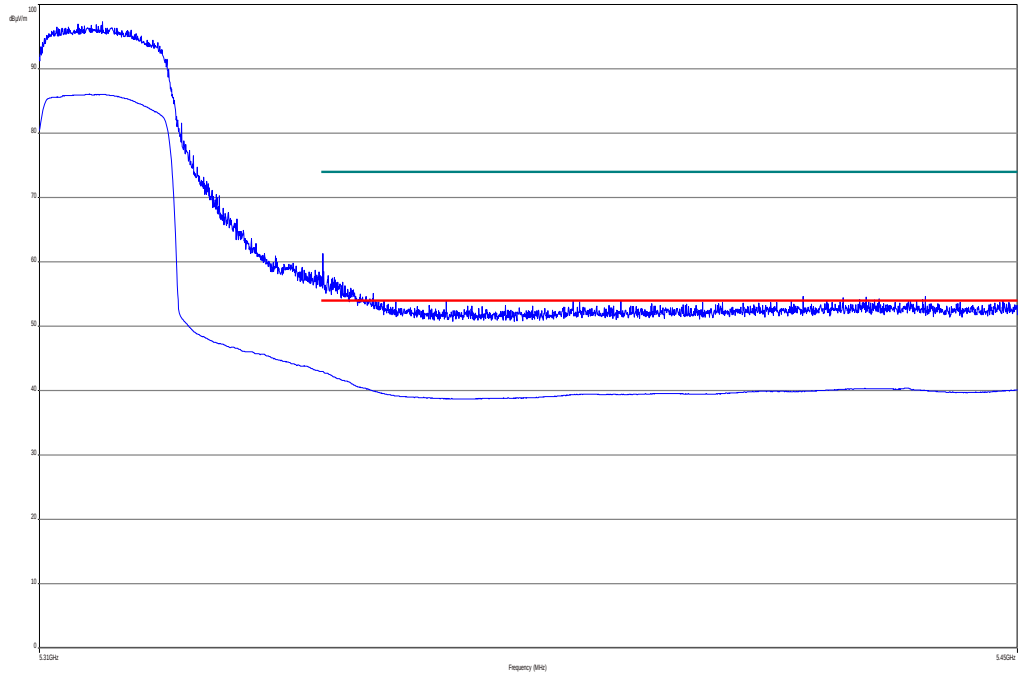
Plot 15: lower band edge, vertical & horizontal polarization (n HT 20 mode), channel 100



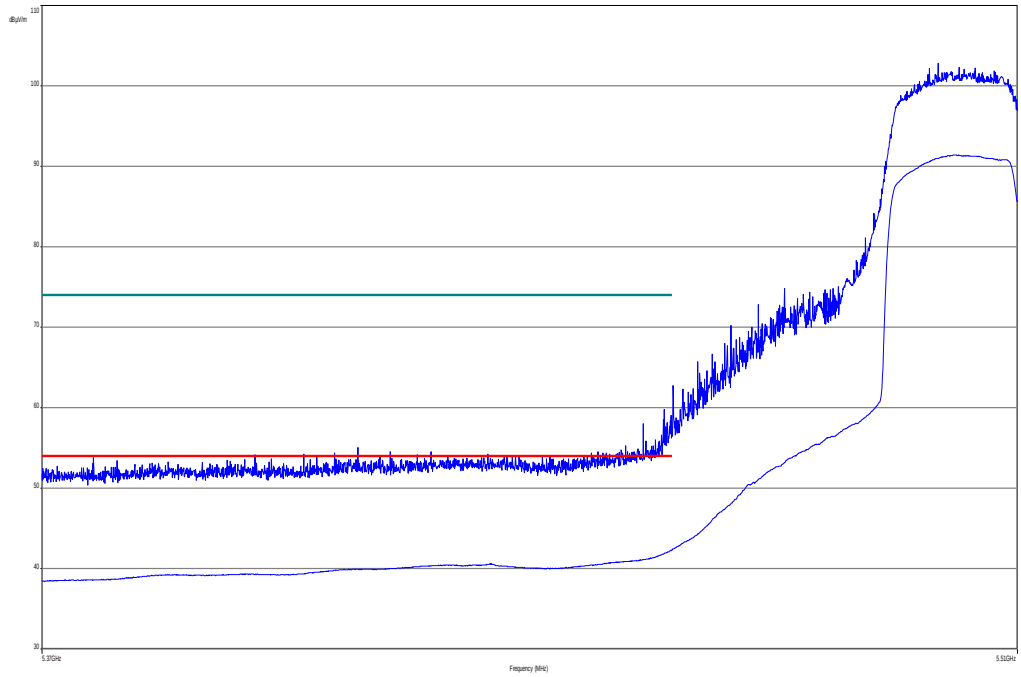
Plot 16: lower band edge, vertical & horizontal polarization (n HT 40 mode), channel 38



Plot 17: upper band edge, vertical & horizontal polarization (n HT 40 mode), channel 62



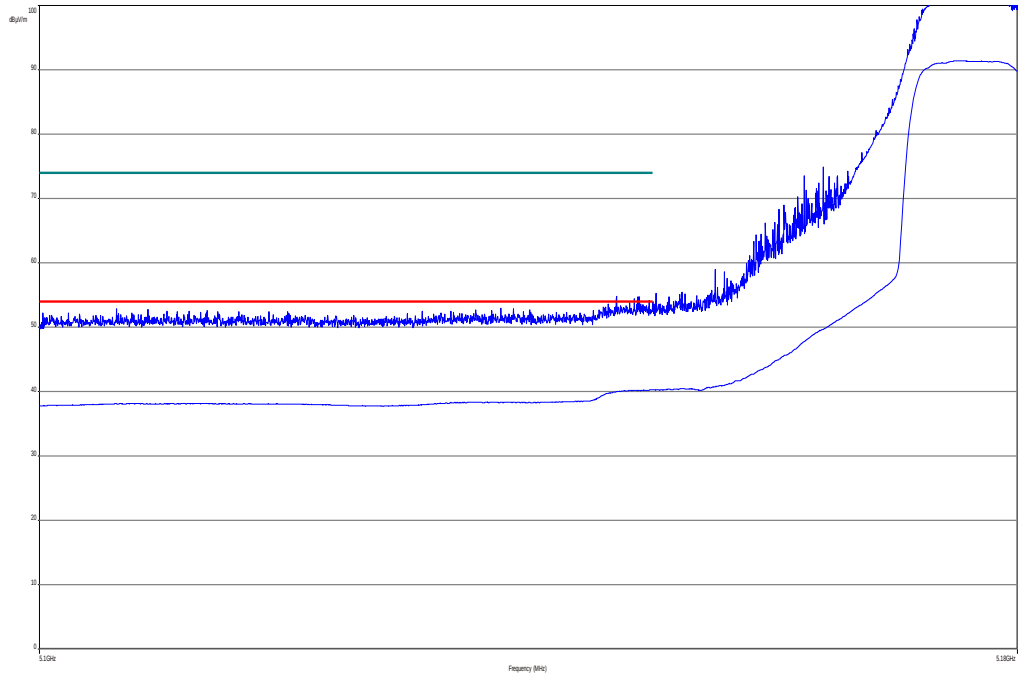
Plot 18: lower band edge, vertical & horizontal polarization (n HT 40 mode), channel 102



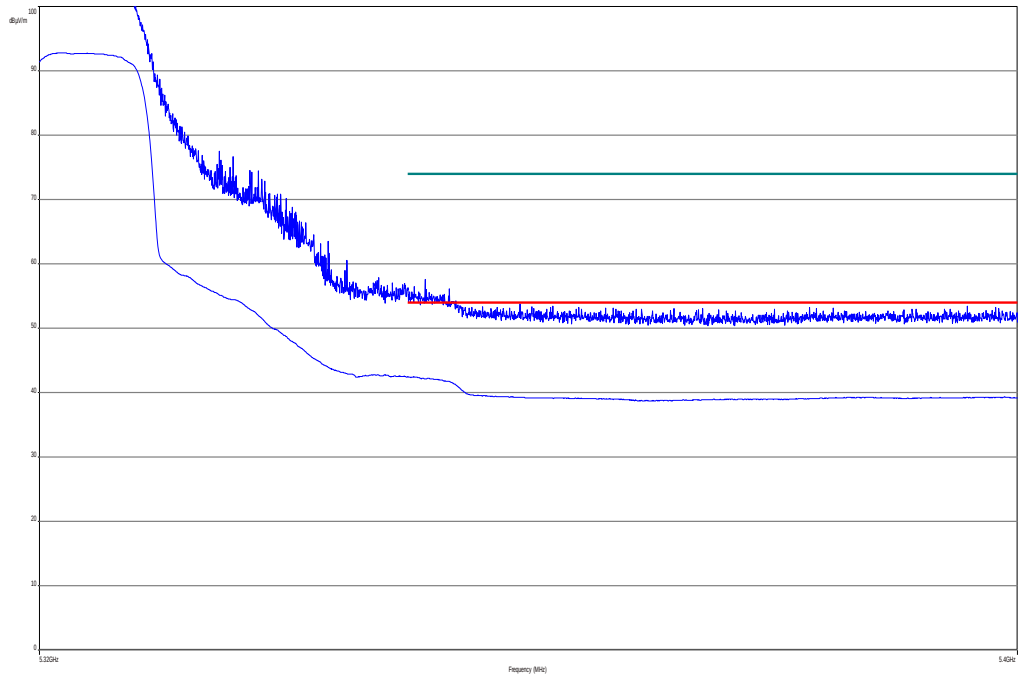
Result: **Passed**

Plots: Antenna 453564175981

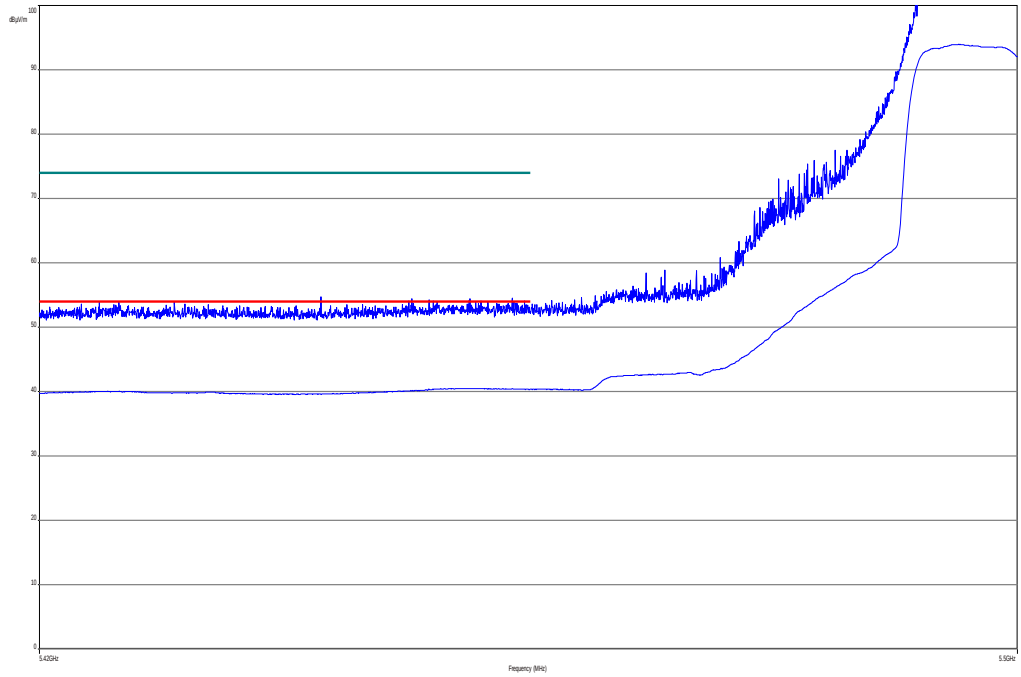
Plot 19: lower band edge, vertical & horizontal polarization (a mode), channel 36



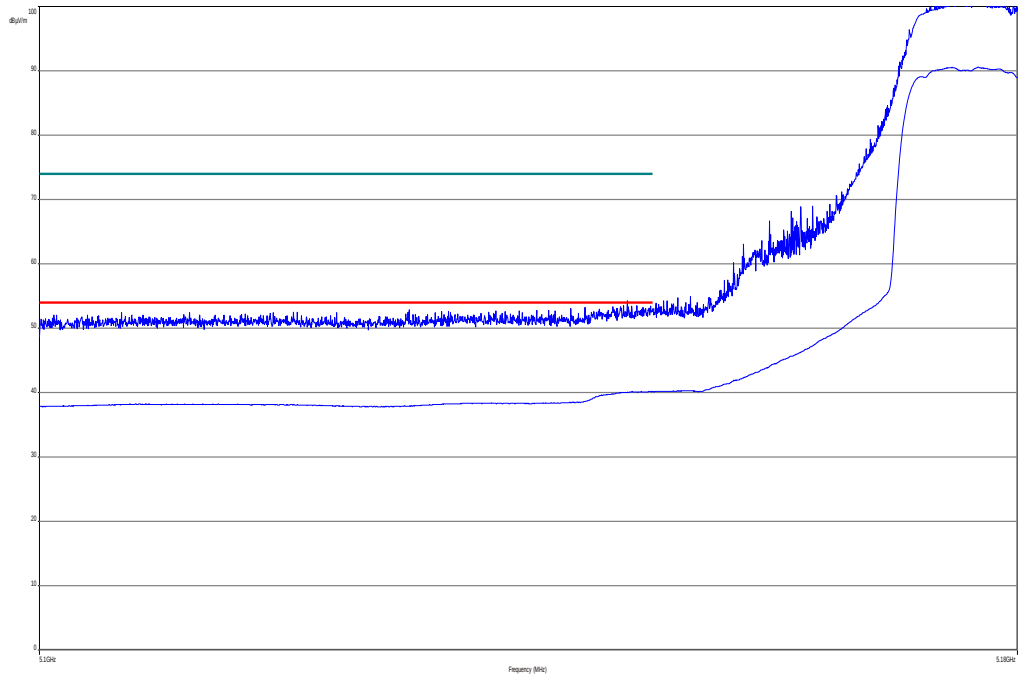
Plot 20: upper band edge, vertical & horizontal polarization (a mode), channel 64



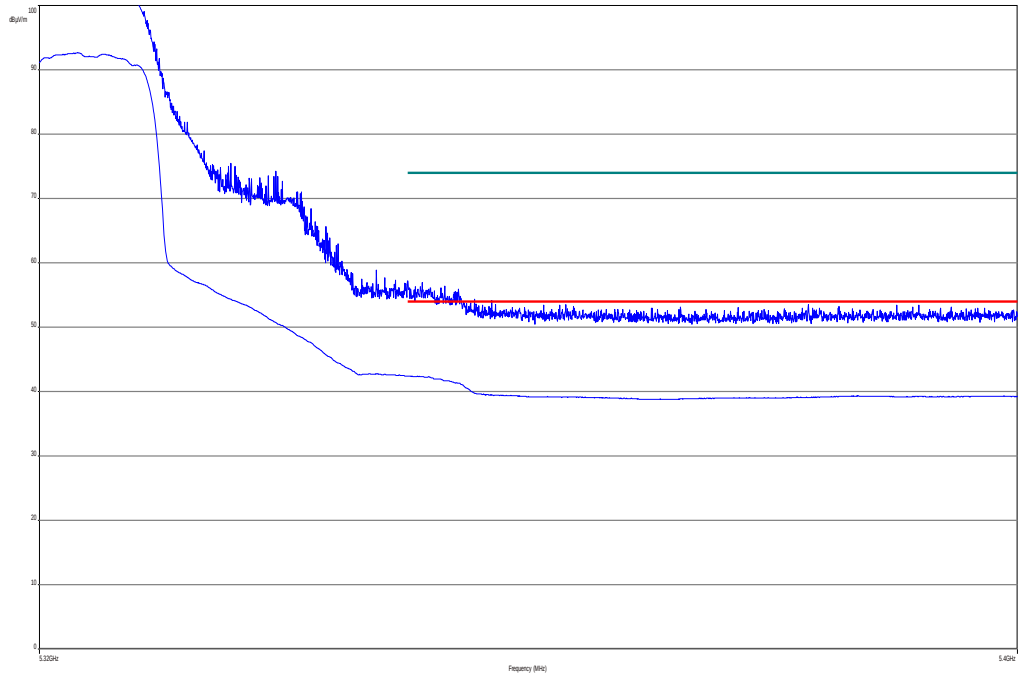
Plot 21: lower band edge, vertical & horizontal polarization (a mode), channel 100



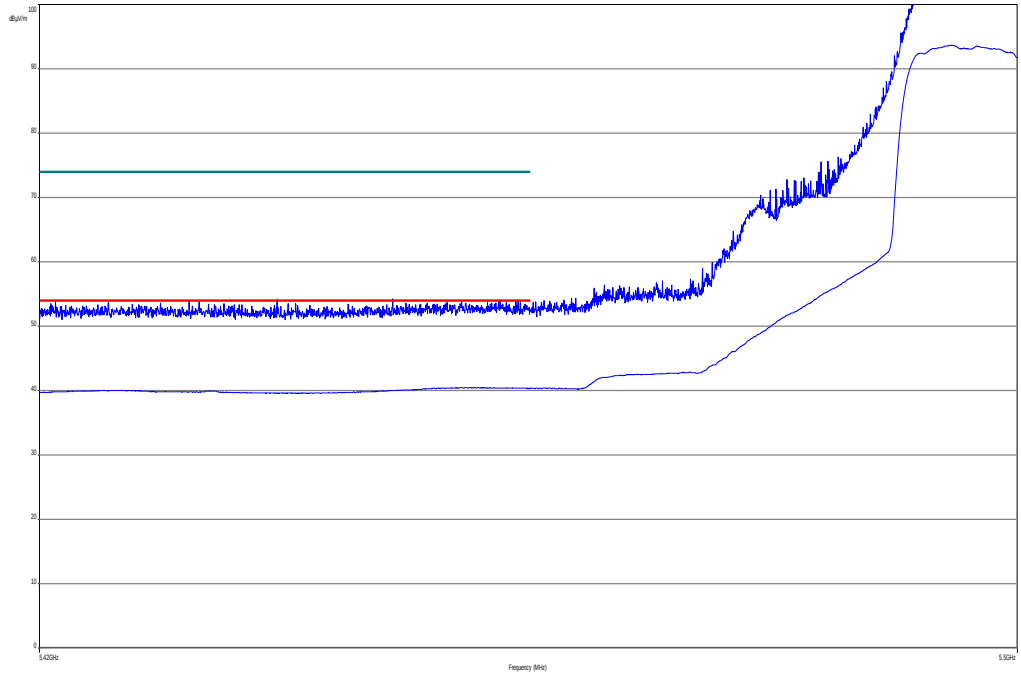
Plot 22: lower band edge, vertical & horizontal polarization (n HT 20 mode), channel 36



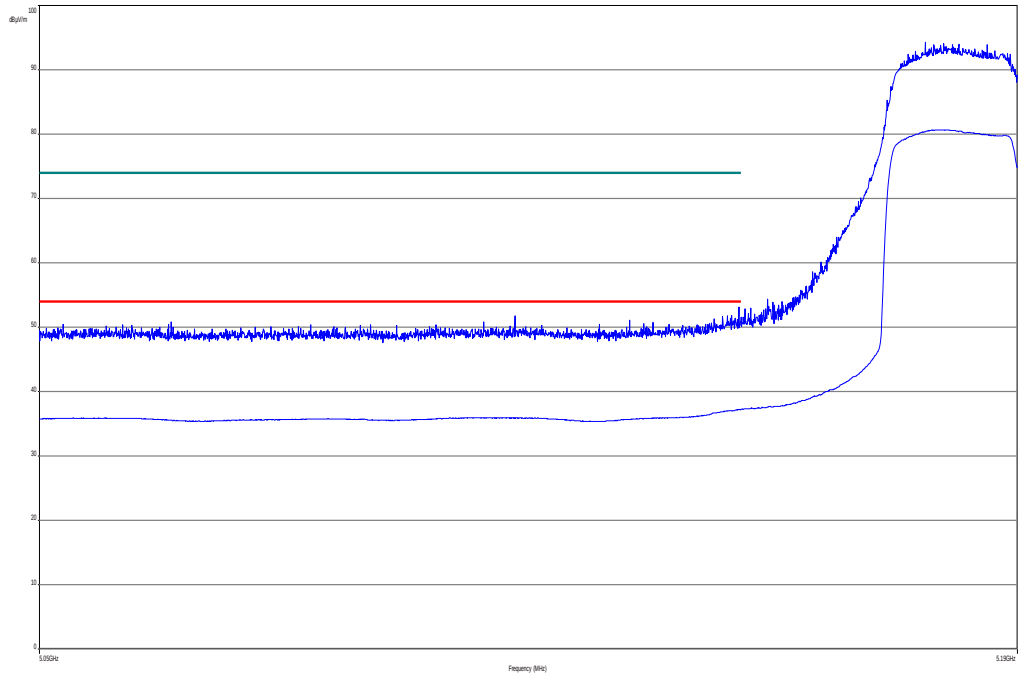
Plot 23: upper band edge, vertical & horizontal polarization (n HT 20 mode), channel 64



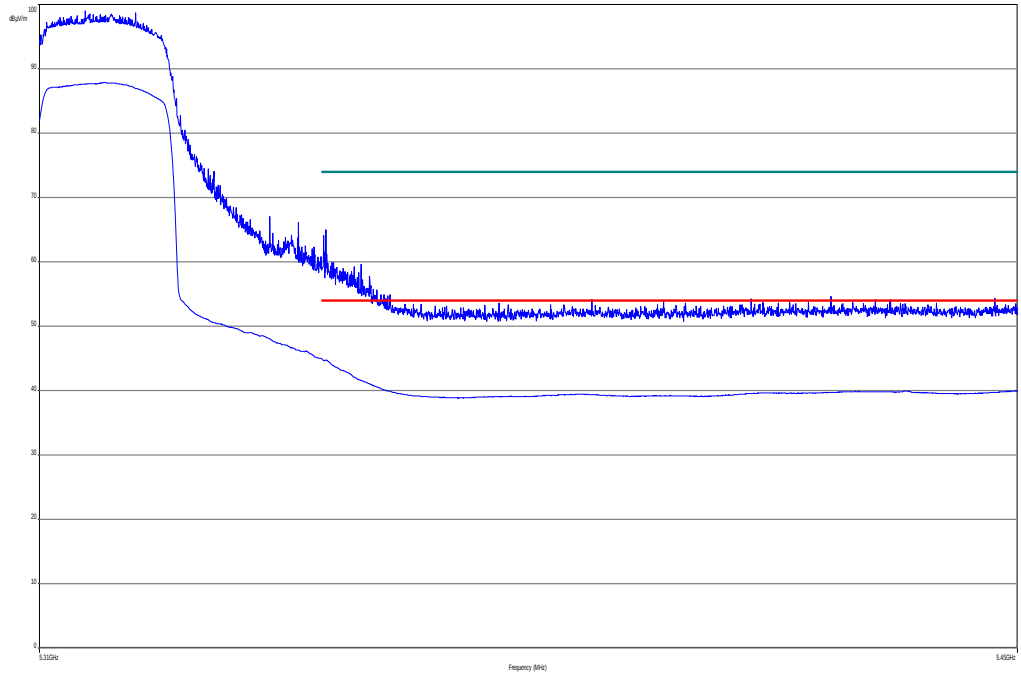
Plot 24: lower band edge, vertical & horizontal polarization (n HT 20 mode), channel 100



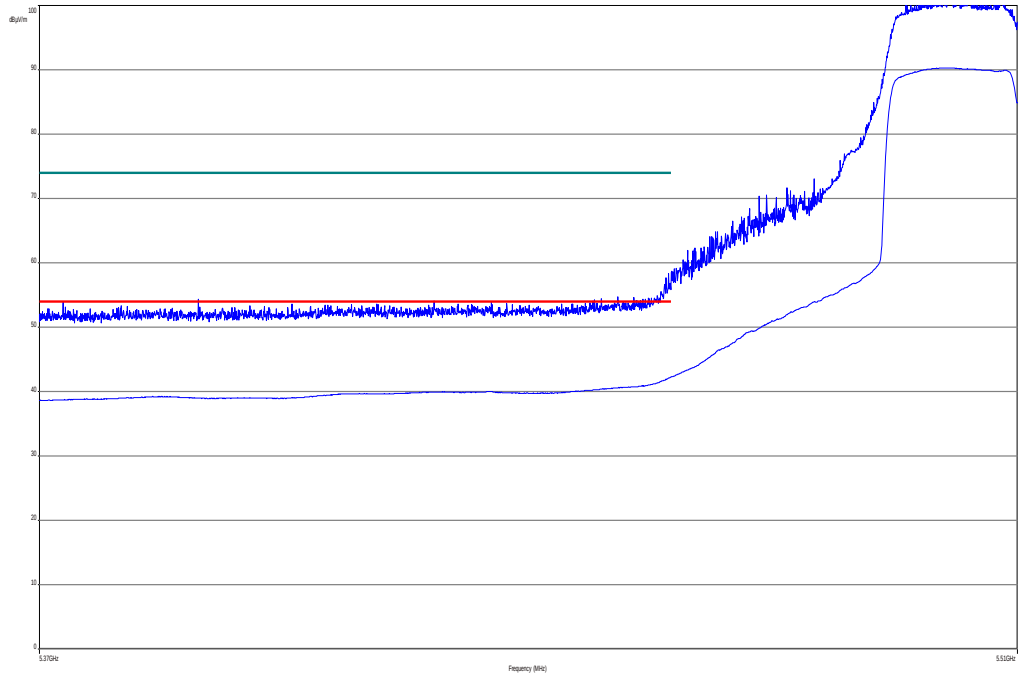
Plot 25: lower band edge, vertical & horizontal polarization (n HT 40 mode), channel 38



Plot 26: upper band edge, vertical & horizontal polarization (n HT 40 mode), channel 62



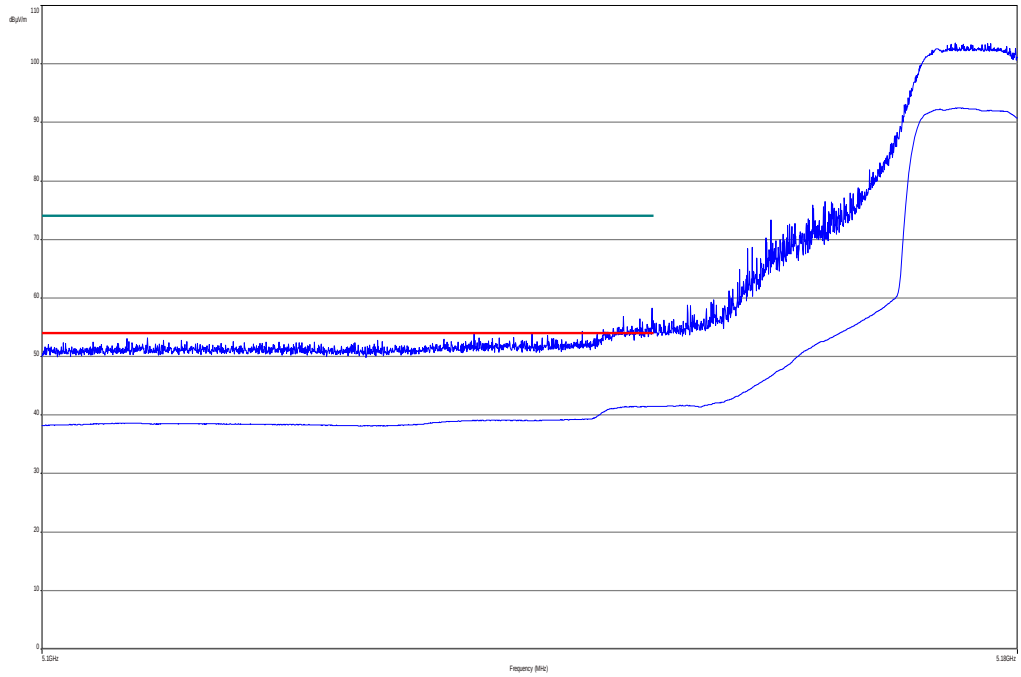
Plot 27: lower band edge, vertical & horizontal polarization (n HT 40 mode), channel 102



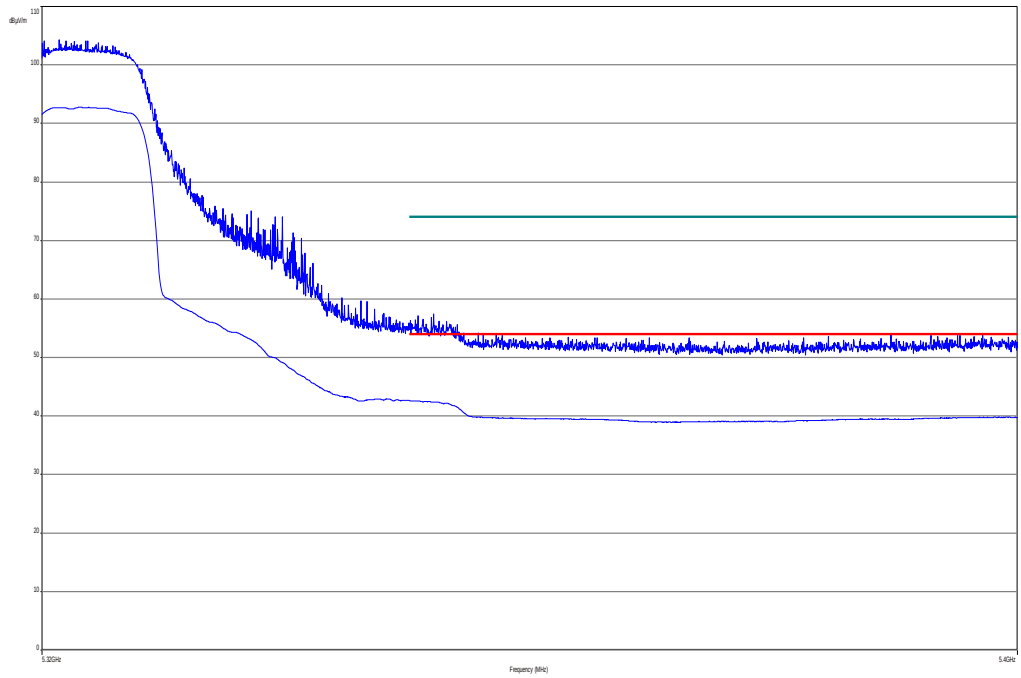
Result: **Passed**

Plots: Antenna 453564271931

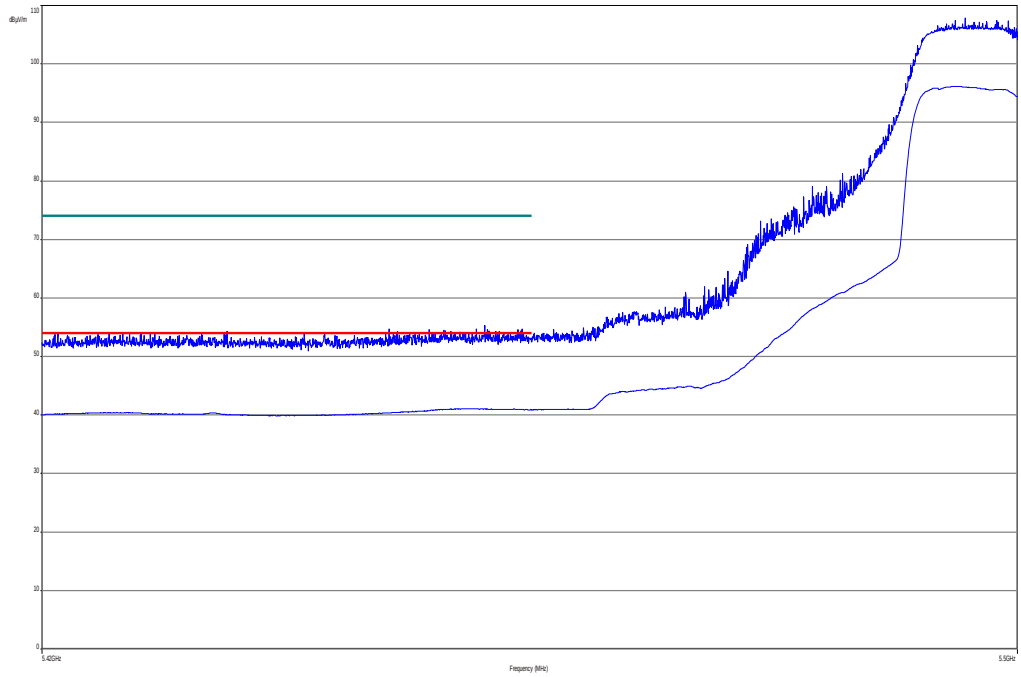
Plot 28: lower band edge, vertical & horizontal polarization (a mode), channel 36



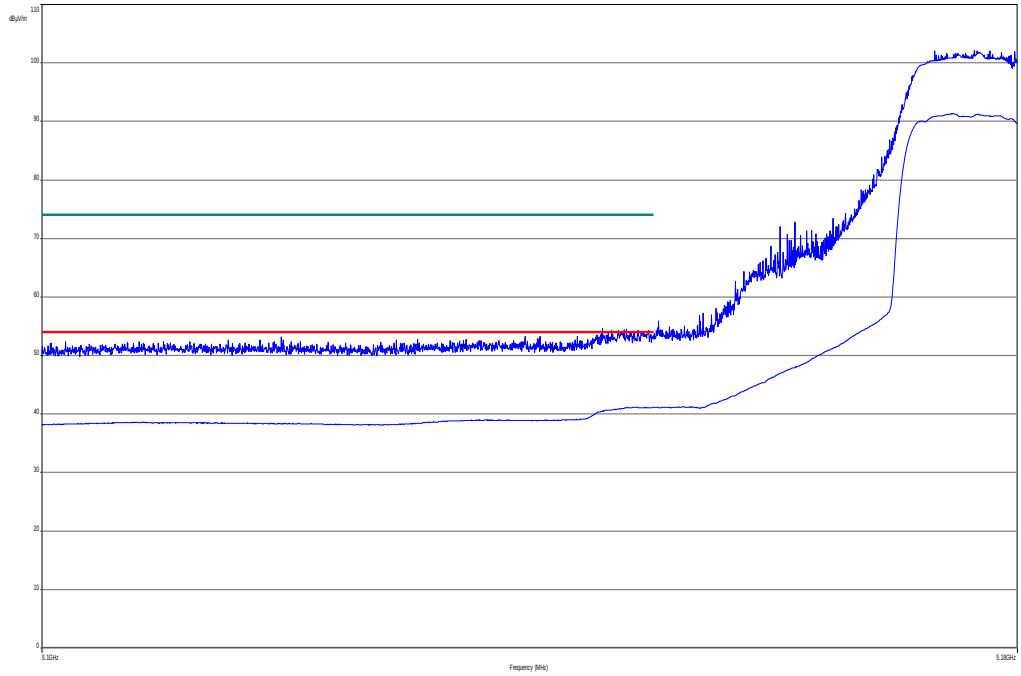
Plot 29: upper band edge, vertical & horizontal polarization (a mode), channel 64



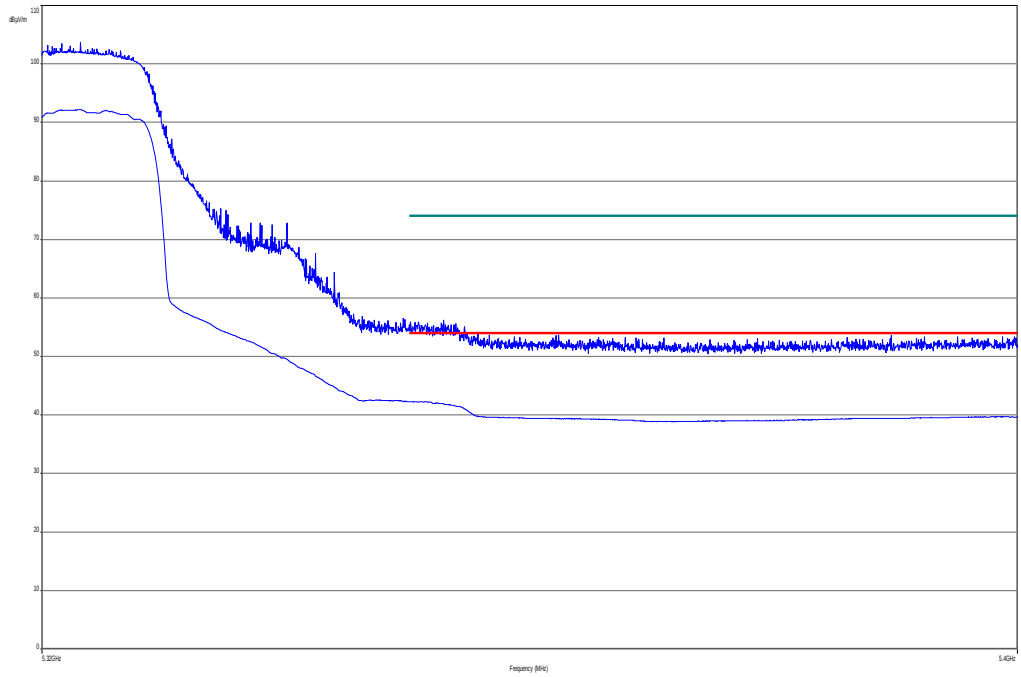
Plot 30: lower band edge, vertical & horizontal polarization (a mode), channel 100



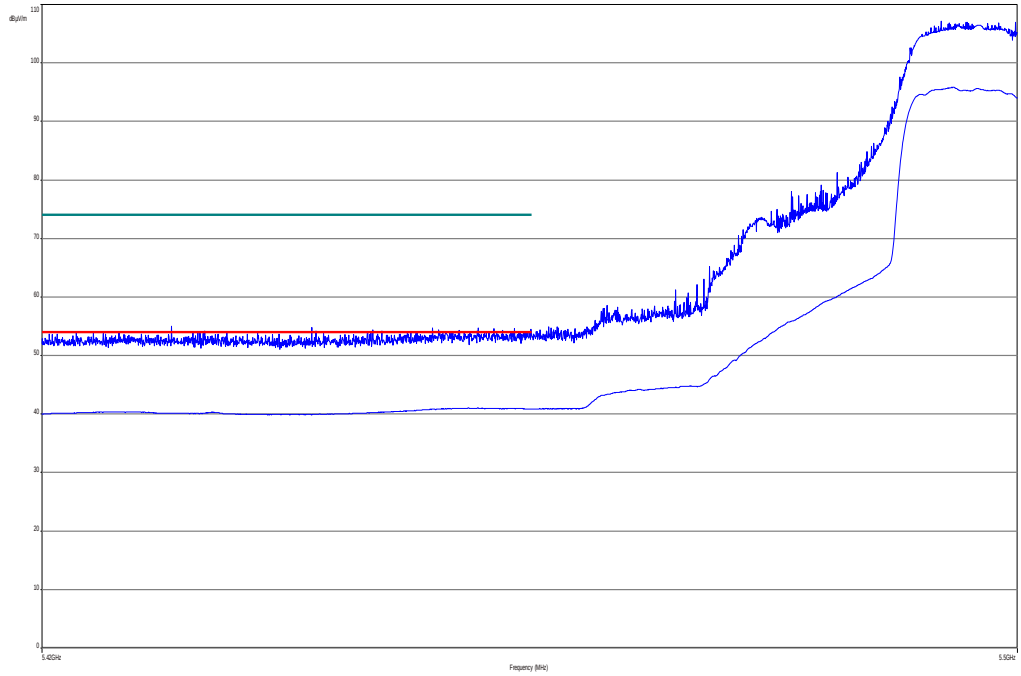
Plot 31: lower band edge, vertical & horizontal polarization (n HT 20 mode), channel 36



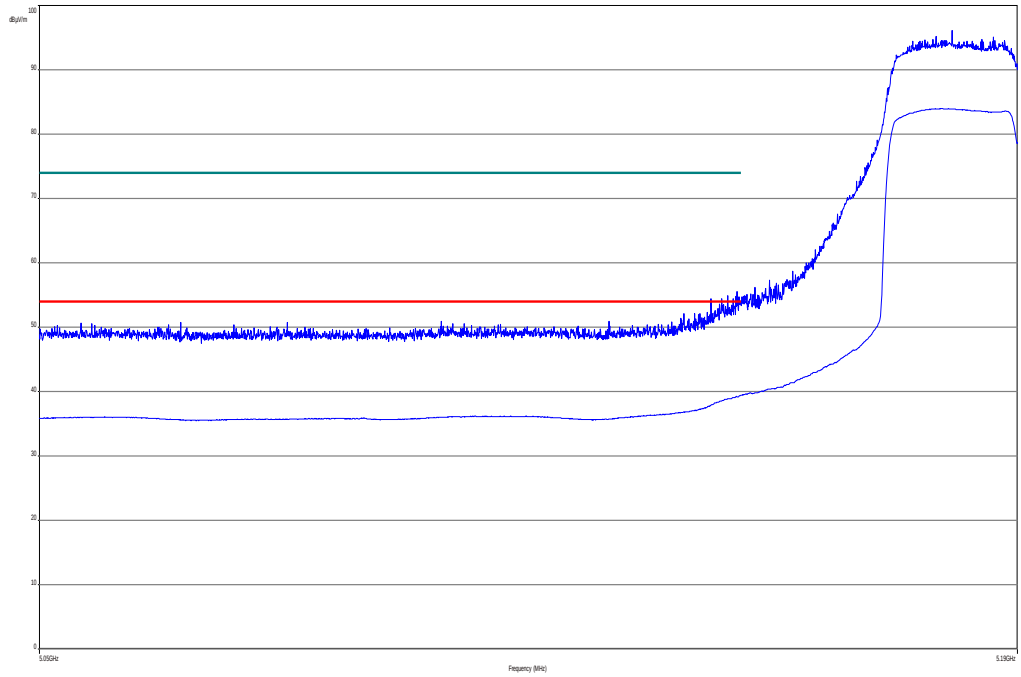
Plot 32: upper band edge, vertical & horizontal polarization (n HT 20 mode), channel 64



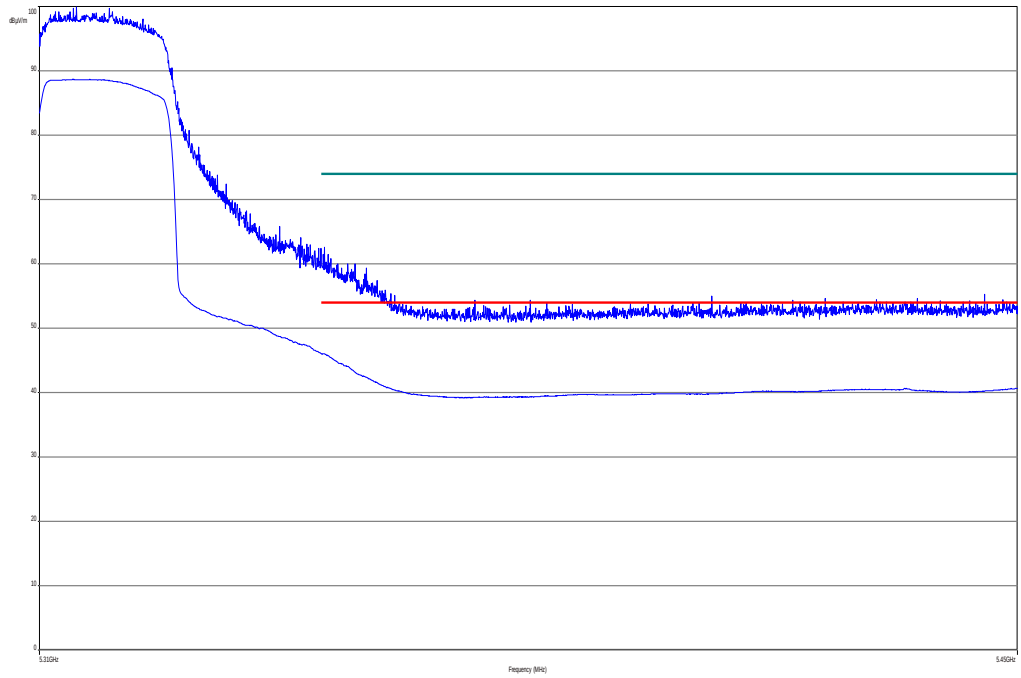
Plot 33: lower band edge, vertical & horizontal polarization (n HT 20 mode), channel 100



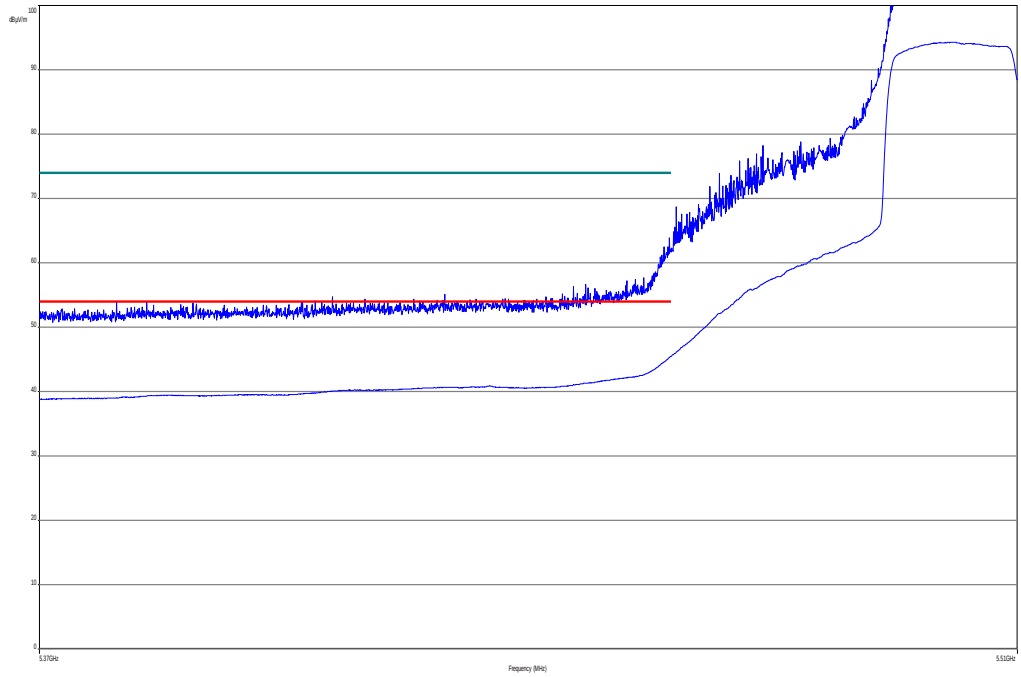
Plot 34: lower band edge, vertical & horizontal polarization (n HT 40 mode), channel 38



Plot 35: upper band edge, vertical & horizontal polarization (n HT 40 mode), channel 62



Plot 36: lower band edge, vertical & horizontal polarization (n HT 40 mode), channel 102



Result: **Passed**

11.7 TX spurious emissions radiated

Description:

Measurement of the radiated spurious emissions in transmit mode. The measurement is performed at lowest, middle and highest channel.

Measurement:

Measurement parameter	
Detector:	Quasi Peak below 1 GHz (alternative Peak) Peak above 1 GHz / RMS
Sweep time:	Auto
Resolution bandwidth:	F < 1 GHz: 100 kHz F > 1 GHz: 1 MHz
Video bandwidth:	F < 1 GHz: 100 kHz F > 1 GHz: ≥ 3 MHz /10 Hz
Span:	30 MHz to 40 GHz
Trace-Mode:	Max Hold / Average with 100 counts + 20 log (1 / X) for duty cycle lower than 100 %

Limits:

TX Spurious Emissions Radiated		
§15.209		
Frequency (MHz)	Field Strength (dBµV/m)	Measurement distance
30 - 88	30.0	10
88 – 216	33.5	10
216 – 960	36.0	10
Above 960	54.0	3
§15.407		
Outside the restricted bands!	-27 dBm / MHz	

Results: OFDM / a – mode

TX Spurious Emissions Radiated [dBµV/m] / dBm								
OFDM a – mode								
Lowest 5180 MHz			Middle 5200 MHz			Highest 5240 MHz		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
No peaks found.			No peaks found.			No peaks found.		
Measurement uncertainty			± 3 dB					

TX Spurious Emissions Radiated [dBµV/m] / dBm								
OFDM a – mode								
Lowest 5260 MHz			Middle 5280 MHz			Highest 5320 MHz		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
No peaks found.			No peaks found.			No peaks found.		
Measurement uncertainty			± 3 dB					

TX Spurious Emissions Radiated [dBµV/m] / dBm								
OFDM a – mode								
Lowest 5500 MHz			Middle 5600 MHz			Highest 5700 MHz		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
No peaks found.			No peaks found.			No peaks found.		
Measurement uncertainty			± 3 dB					

TX Spurious Emissions Radiated [dBµV/m] / dBm								
OFDM a – mode								
Lowest 5745 MHz			Middle 5765 MHz			Highest 5805 MHz		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
No peaks found.			No peaks found.			No peaks found.		
Measurement uncertainty			± 3 dB					

Result: **Passed**

Results: OFDM / n – modeHT20

TX Spurious Emissions Radiated [dBµV/m] / dBm								
OFDM n – mode HT20								
Lowest 5180 MHz			Middle 5200 MHz			Highest 5240 MHz		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
No peaks found.			No peaks found.			No peaks found.		
Measurement uncertainty			± 3 dB					

TX Spurious Emissions Radiated [dBµV/m] / dBm								
OFDM n – mode HT20								
Lowest 5260 MHz			Middle 5280 MHz			Highest 5320 MHz		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
No peaks found.			No peaks found.			No peaks found.		
Measurement uncertainty			± 3 dB					

TX Spurious Emissions Radiated [dBµV/m] / dBm								
OFDM n – mode HT20								
Lowest 5500 MHz			Middle 5600 MHz			Highest 5700 MHz		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
No peaks found.			No peaks found.			No peaks found.		
Measurement uncertainty			± 3 dB					

TX Spurious Emissions Radiated [dBµV/m] / dBm								
OFDM n – mode HT20								
Lowest 5745 MHz			Middle 5765 MHz			Highest 5805 MHz		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
No peaks found.			No peaks found.			No peaks found.		
Measurement uncertainty			± 3 dB					

Result: **Passed**

Results: OFDM / n – modeHT40

TX Spurious Emissions Radiated [dBµV/m] / dBm								
OFDM n – mode HT40								
Lowest 5190 MHz			Middle 5230 MHz			Highest 5270 MHz		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
No peaks found.			No peaks found.			No peaks found.		
Measurement uncertainty			± 3 dB					

TX Spurious Emissions Radiated [dBµV/m] / dBm								
OFDM n – mode HT40								
Lowest 5310 MHz			Middle 5510 MHz			Highest 5590 MHz		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
No peaks found.			No peaks found.			No peaks found.		
Measurement uncertainty			± 3 dB					

TX Spurious Emissions Radiated [dBµV/m] / dBm								
OFDM n – mode HT40								
Lowest 5670 MHz			Middle 5765 MHz			Highest 5795 MHz		
F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]	F [MHz]	Detector	Level [dBµV/m]
No peaks found.			No peaks found.			No peaks found.		
Measurement uncertainty			± 3 dB					

Result: **Passed**

Note:

Results of the OFDM / n – mode HT20 and HT40 are added to show the behaviour of the EUT.

Antenna M3002-66494

Plots: OFDM / a – mode

Plot 1: 30 MHz to 1 GHz, 5180 MHz, vertical & horizontal polarization

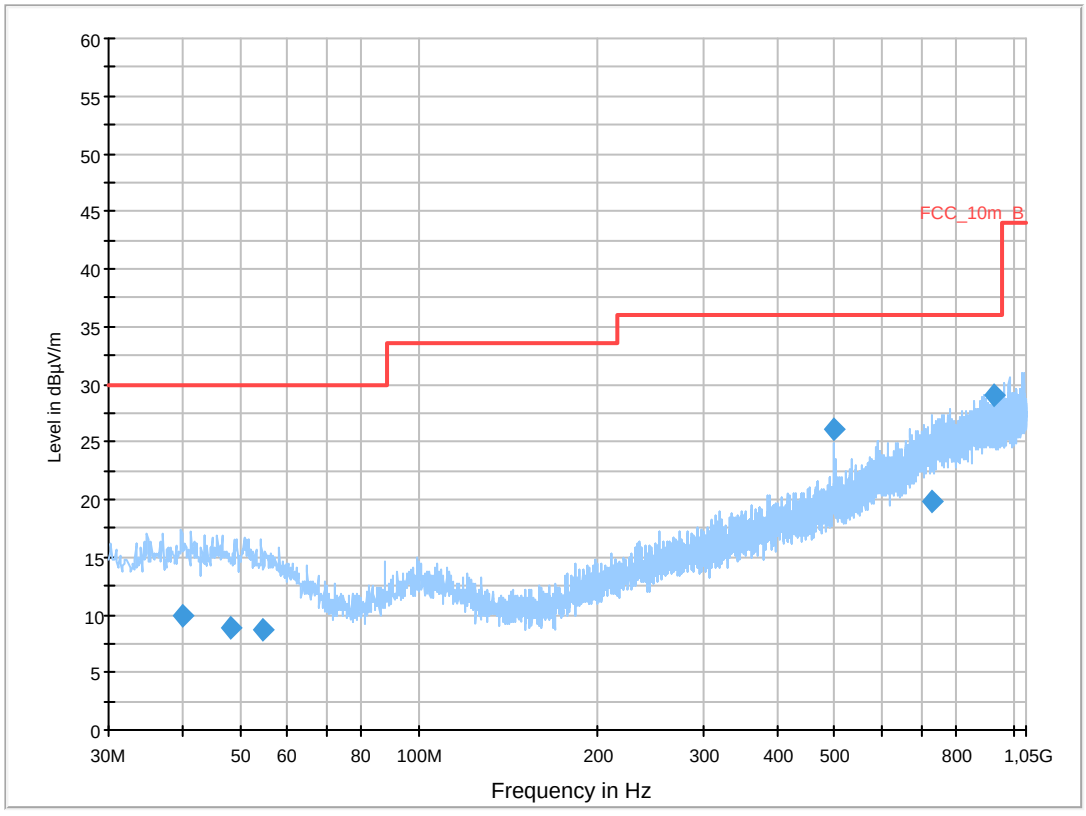
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	WLAN a mode tx @ 5180MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

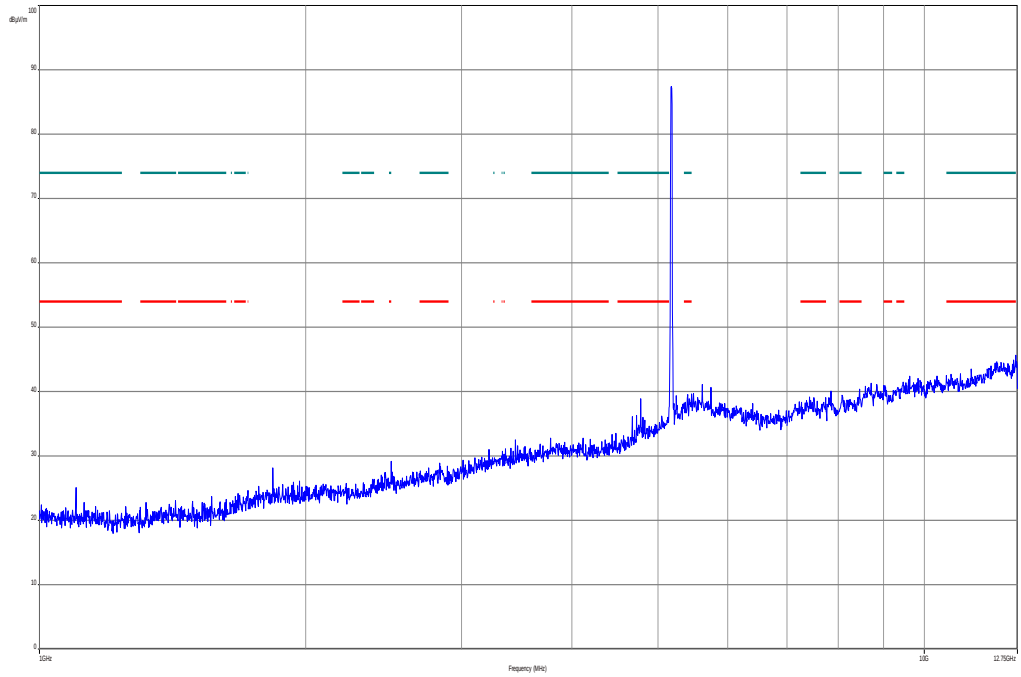
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



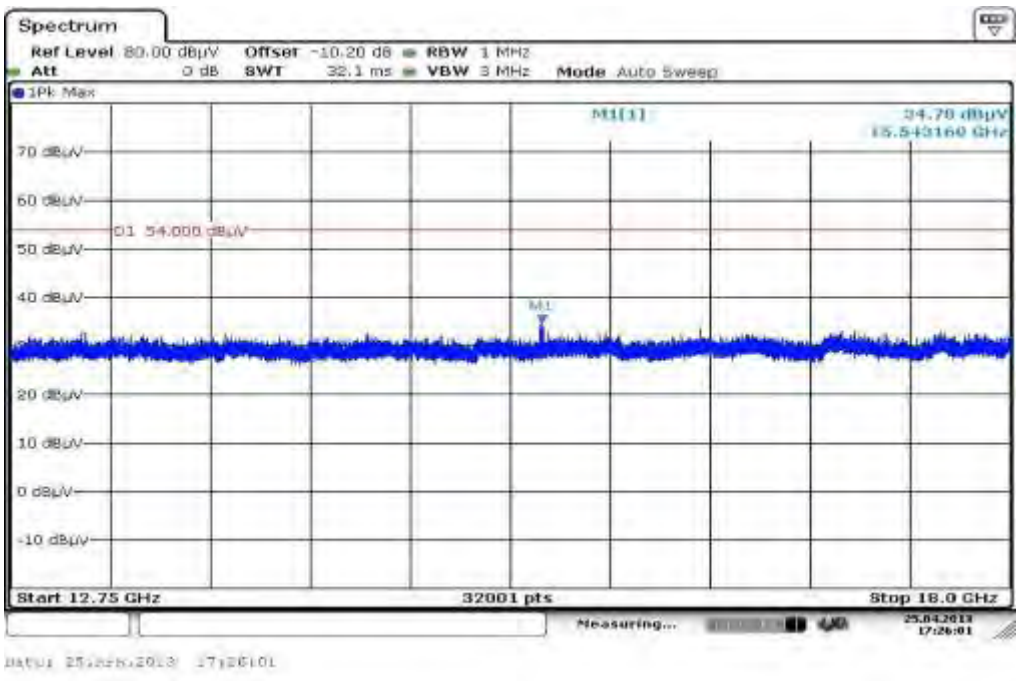
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
39.918150	9.8	1000.0	120.000	132.0	V	265.0	13.4	20.2	30.0	
48.166050	8.9	1000.0	120.000	170.0	V	190.0	13.3	21.1	30.0	
54.664950	8.6	1000.0	120.000	98.0	H	272.0	12.9	21.4	30.0	
500.002050	26.2	1000.0	120.000	170.0	H	81.0	18.7	9.8	36.0	
731.154600	19.8	1000.0	120.000	170.0	H	10.0	23.2	16.2	36.0	
927.360300	29.0	1000.0	120.000	98.0	V	180.0	25.3	7.0	36.0	

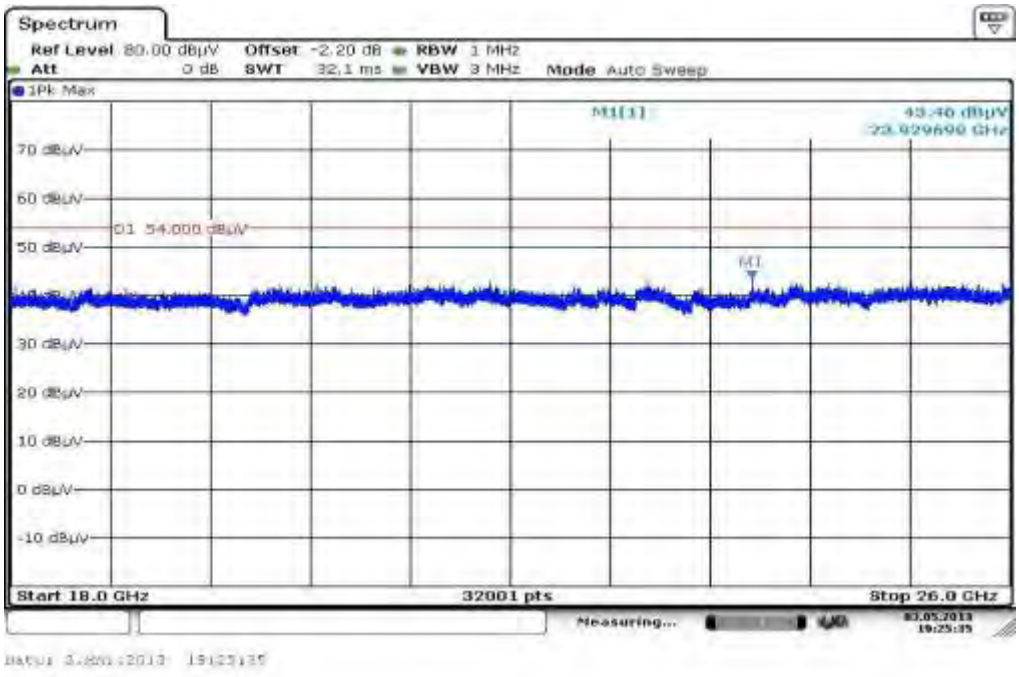
Plot 2: 1 GHz to 12.75 GHz, 5180 MHz, vertical & horizontal polarization



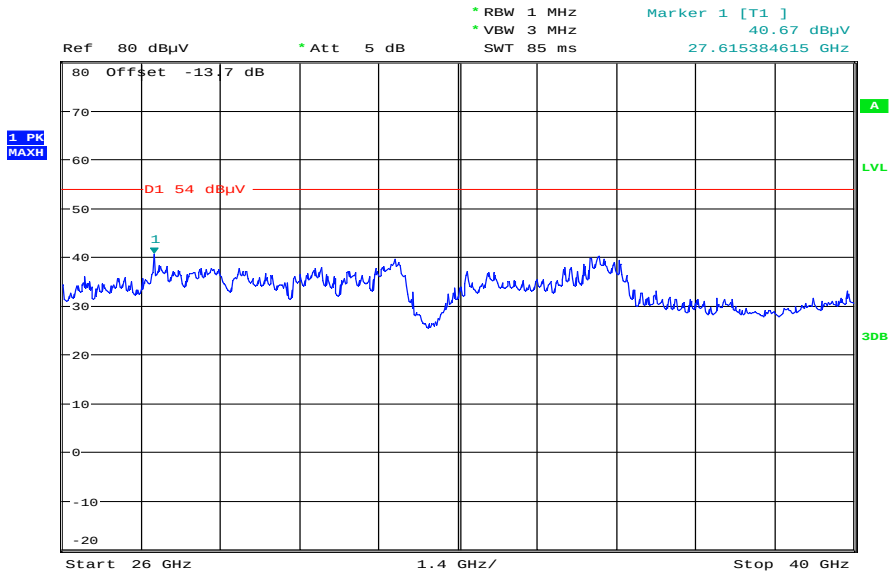
Plot 3: 12 GHz to 18 GHz, 5180 MHz, vertical & horizontal polarization



Plot 4: 18 GHz to 26 GHz, 5180 MHz, vertical & horizontal polarization



Plot 5: 26 GHz to 40 GHz, 5180 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 09:55:56

Plot 6: 30 MHz to 1 GHz, 5240 MHz, vertical & horizontal polarization

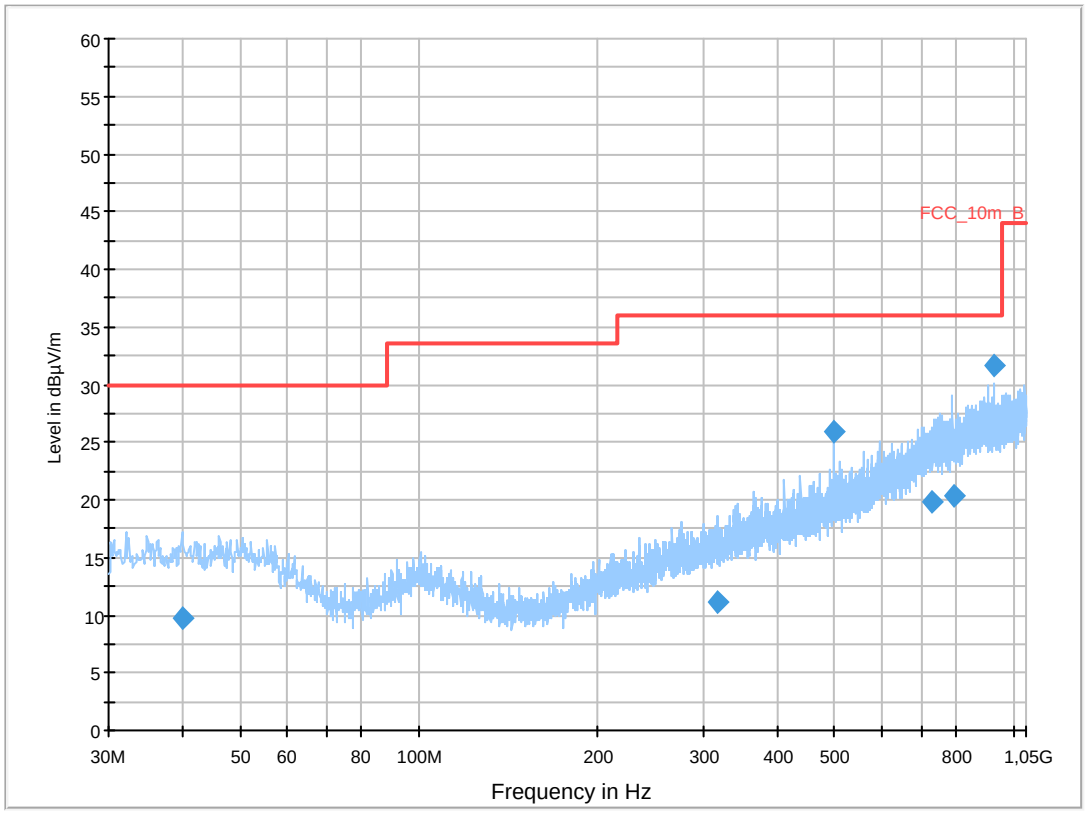
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	WLAN a mode tx @ 5240MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

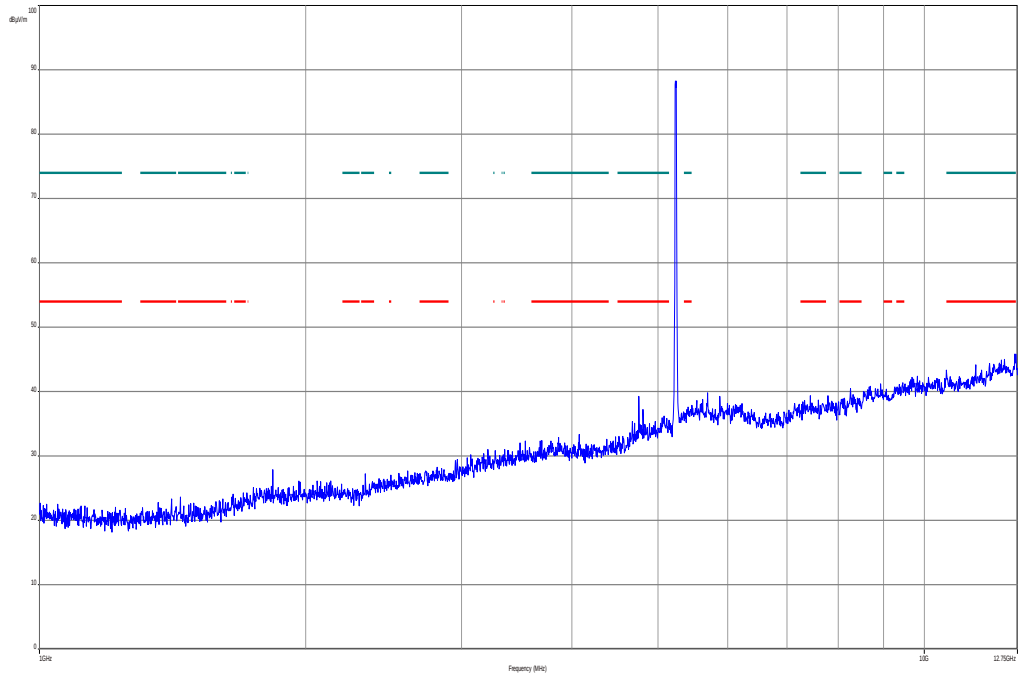
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



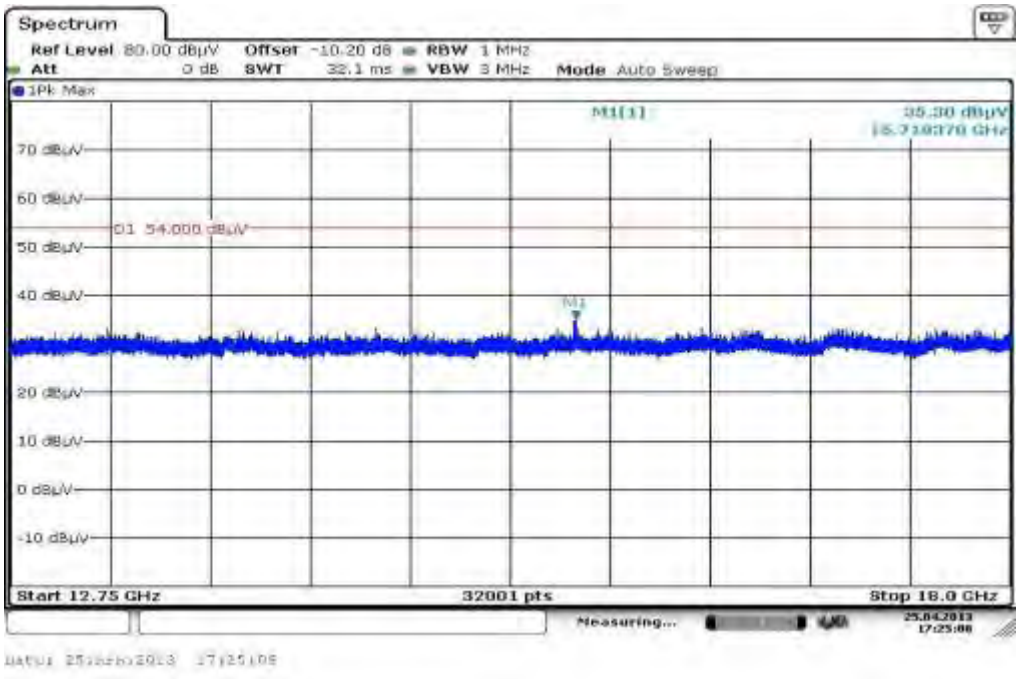
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
39.845700	9.7	1000.0	120.000	170.0	V	0.0	13.4	20.3	30.0	
318.499650	11.1	1000.0	120.000	170.0	V	280.0	15.1	25.0	36.0	
500.016000	25.8	1000.0	120.000	98.0	V	260.0	18.7	10.2	36.0	
727.760250	19.8	1000.0	120.000	170.0	H	260.0	23.1	16.2	36.0	
791.151900	20.3	1000.0	120.000	170.0	H	-9.0	23.8	15.7	36.0	
927.439800	31.6	1000.0	120.000	98.0	V	261.0	25.3	4.4	36.0	

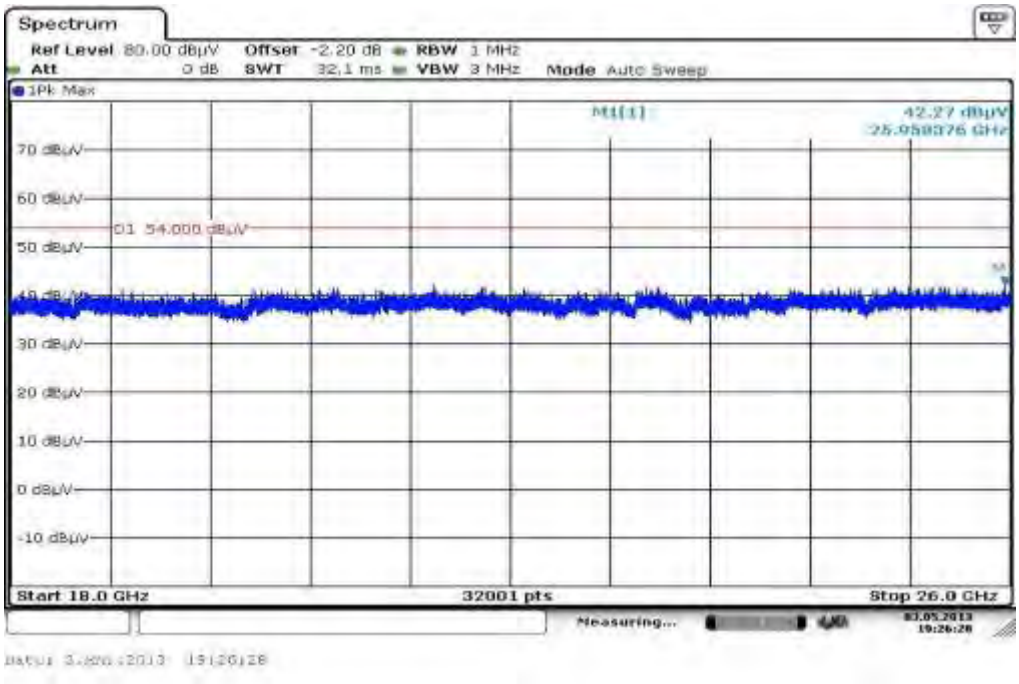
Plot 7: 1 GHz to 12.75 GHz, 5240 MHz, vertical & horizontal polarization



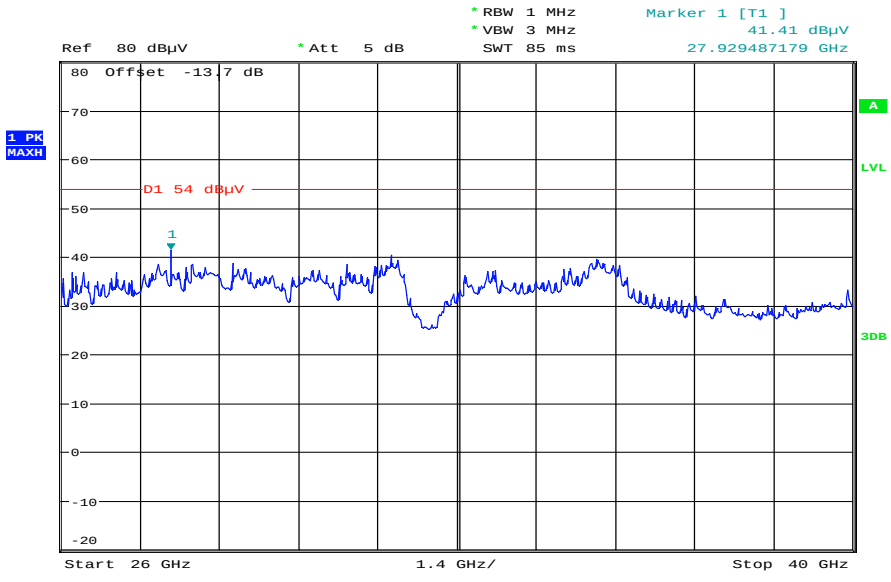
Plot 8: 12 GHz to 18 GHz, 5240 MHz, vertical & horizontal polarization



Plot 9: 18 GHz to 26 GHz, 5240 MHz, vertical & horizontal polarization



Plot 10: 26 GHz to 40 GHz, 5240 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 09:58:37

Plot 11: 30 MHz to 1 GHz, 5260 MHz, vertical & horizontal polarization

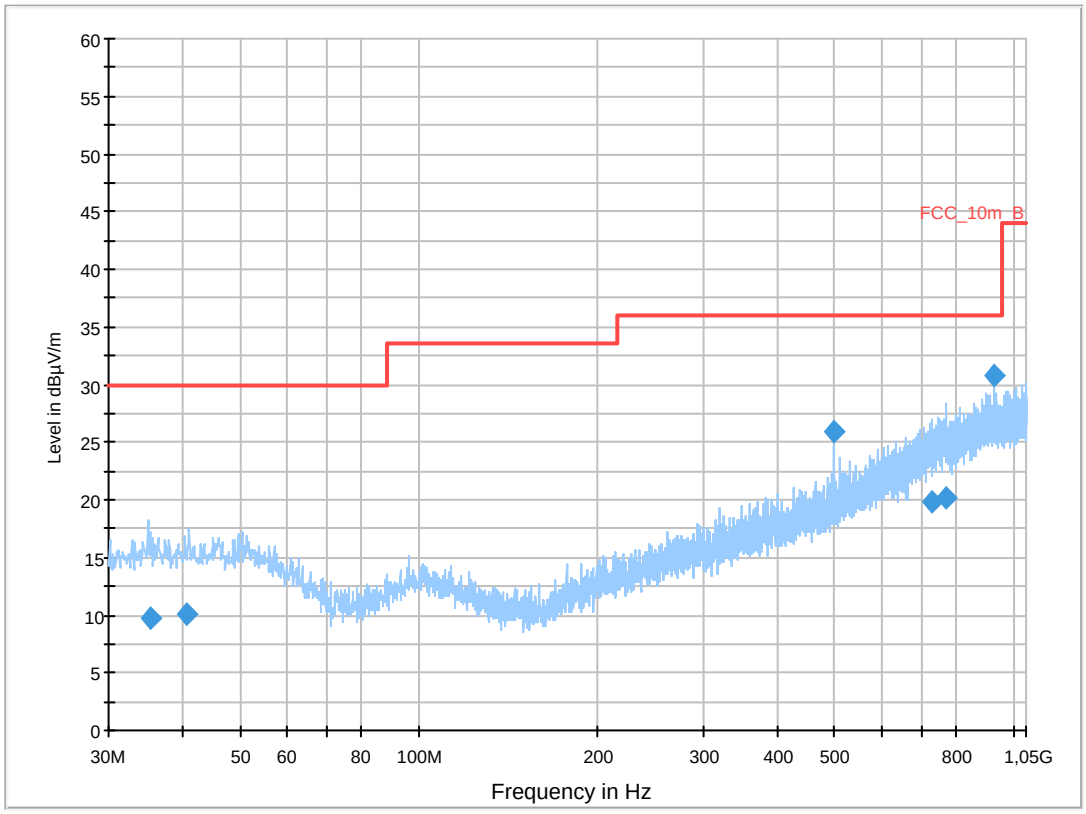
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	WLAN a mode tx @ 5260MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

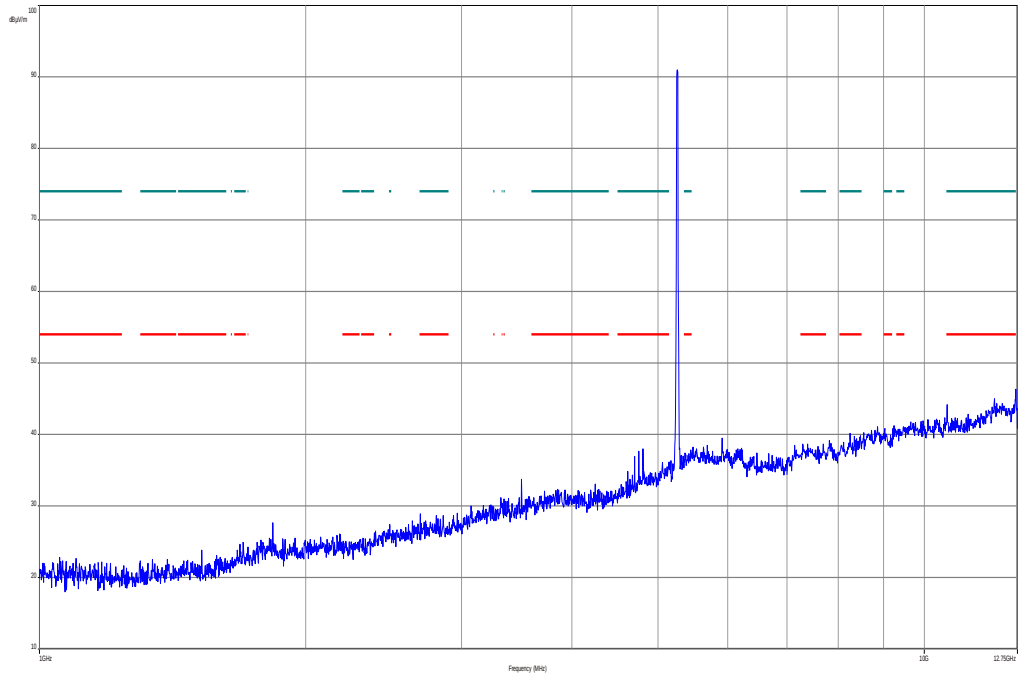
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



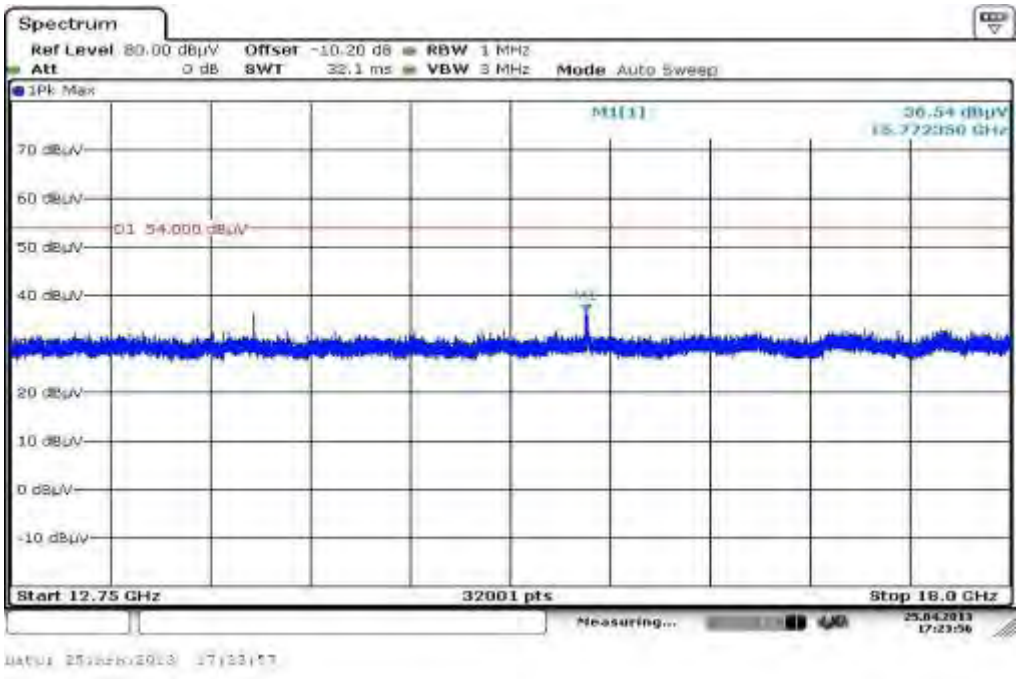
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
35.361600	9.7	1000.0	120.000	170.0	V	190.0	13.1	20.3	30.0	
40.575750	10.1	1000.0	120.000	145.0	V	86.0	13.4	19.9	30.0	
499.999800	25.8	1000.0	120.000	161.0	H	86.0	18.7	10.2	36.0	
731.218050	19.8	1000.0	120.000	98.0	V	100.0	23.2	16.2	36.0	
770.162550	20.1	1000.0	120.000	152.0	H	-2.0	23.7	15.9	36.0	
927.334200	30.8	1000.0	120.000	170.0	V	80.0	25.3	5.2	36.0	

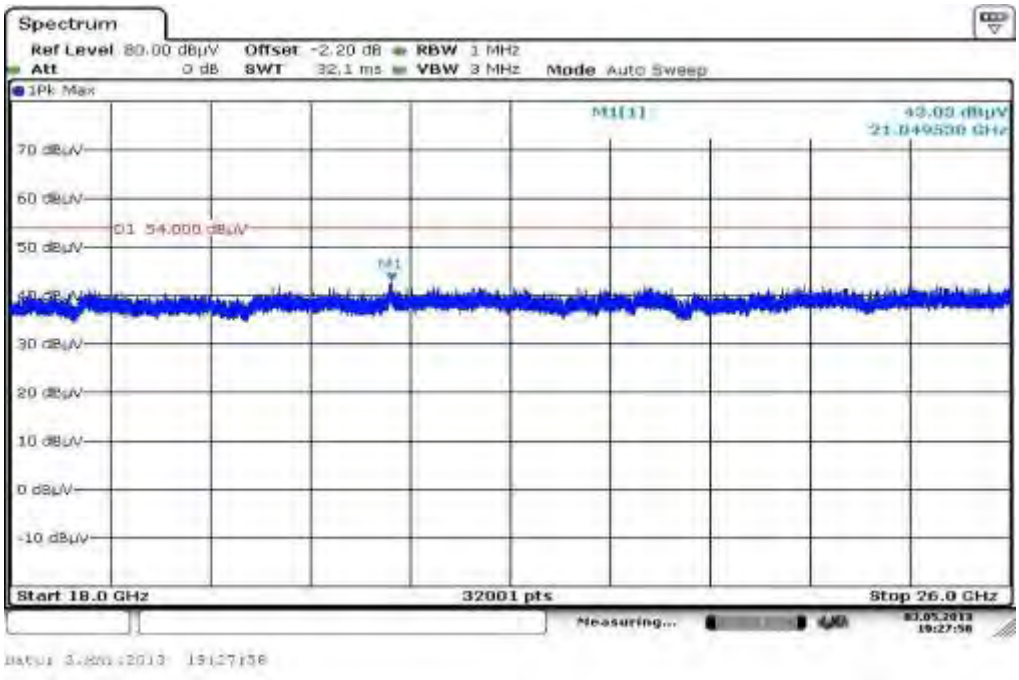
Plot 12: 1 GHz to 12.75 GHz, 5260 MHz, vertical & horizontal polarization



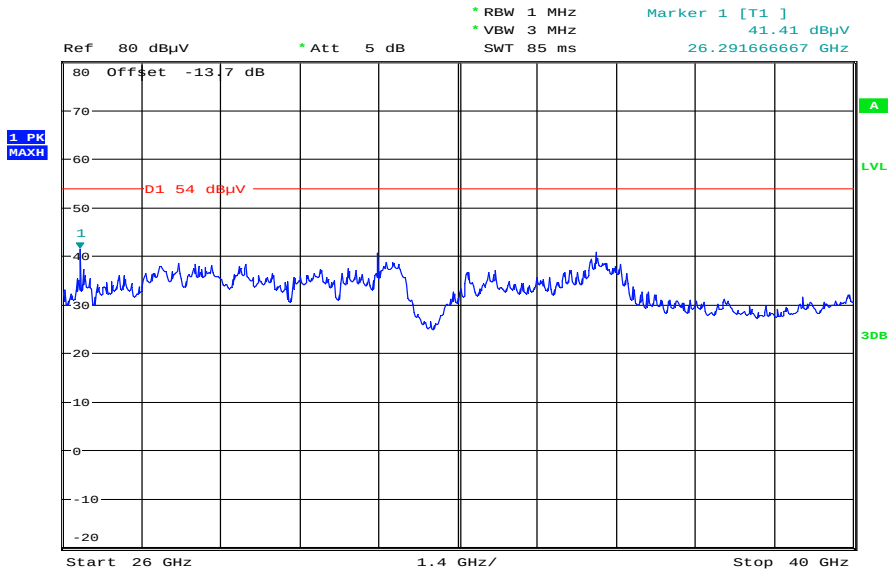
Plot 13: 12 GHz to 18 GHz, 5260 MHz, vertical & horizontal polarization



Plot 14: 18 GHz to 26 GHz, 5260 MHz, vertical & horizontal polarization



Plot 15: 26 GHz to 40 GHz, 5260 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:00:25

Plot 16: 30 MHz to 1 GHz, 5320 MHz, vertical & horizontal polarization

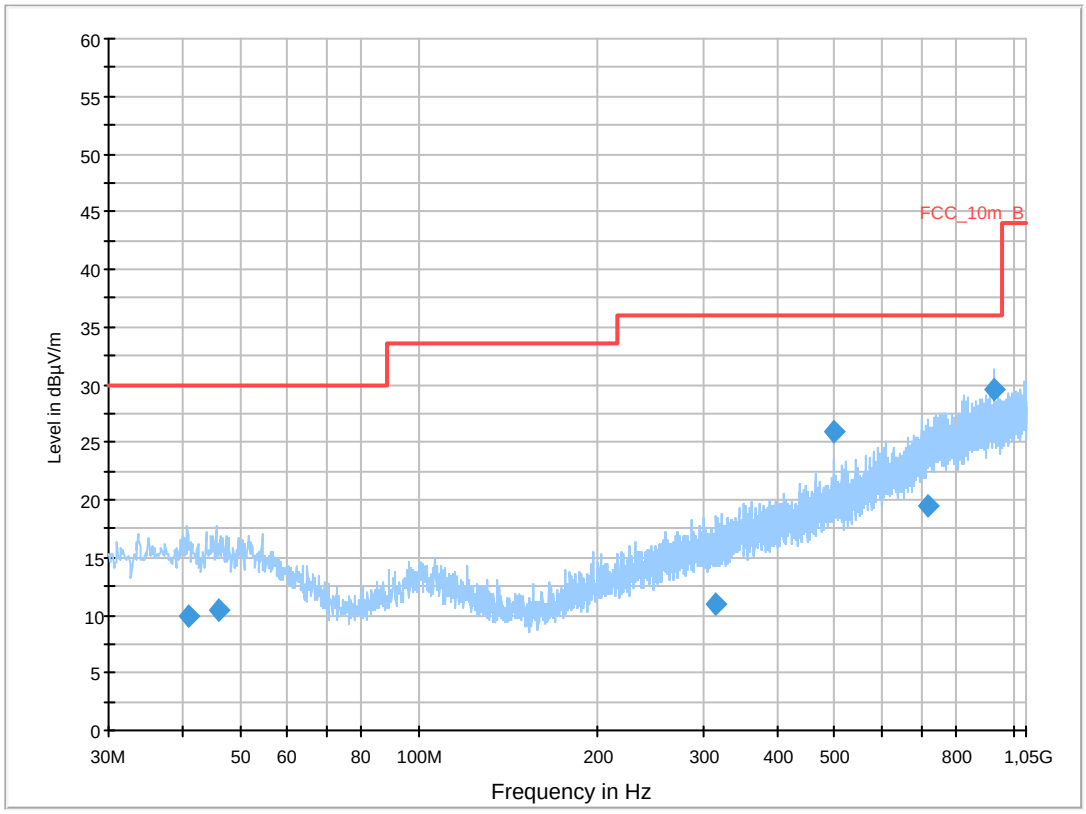
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	WLAN a mode tx @ 5320MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

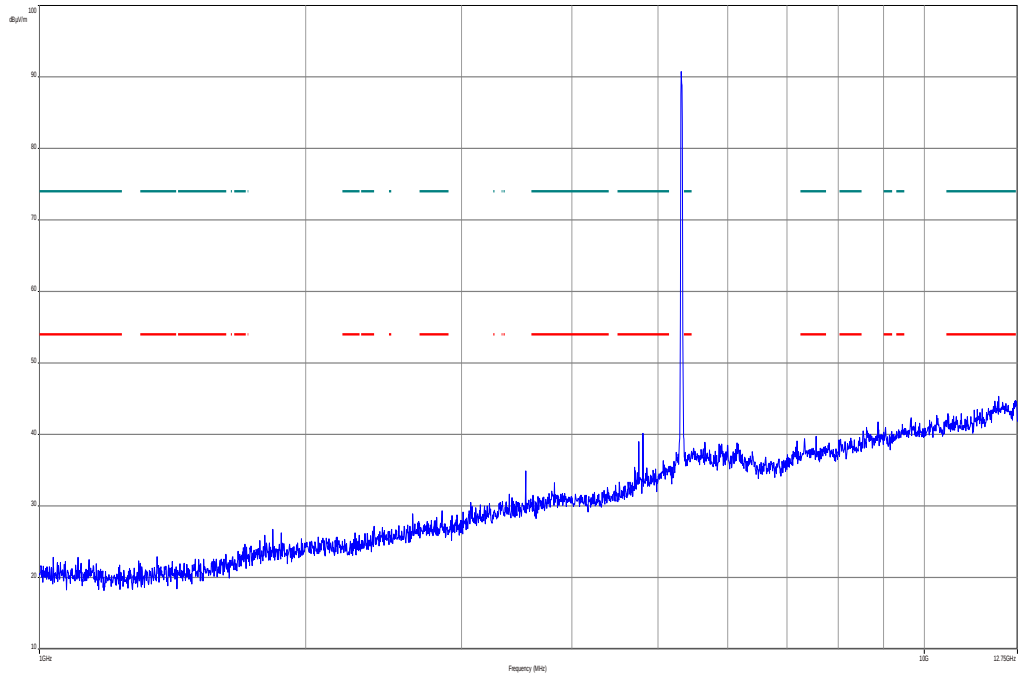
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



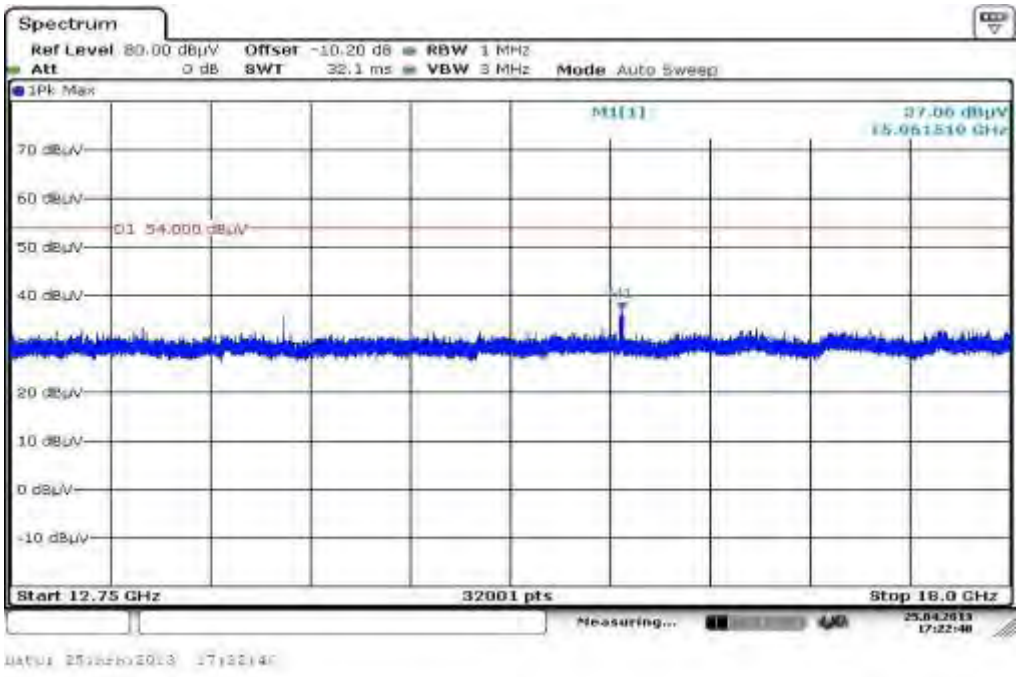
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
40.898850	9.9	1000.0	120.000	105.0	V	280.0	13.4	20.1	30.0	
45.874200	10.4	1000.0	120.000	170.0	V	10.0	13.3	19.6	30.0	
316.357050	11.0	1000.0	120.000	170.0	V	265.0	15.0	25.0	36.0	
500.000250	25.8	1000.0	120.000	98.0	V	265.0	18.7	10.2	36.0	
718.315950	19.6	1000.0	120.000	170.0	H	270.0	22.9	16.4	36.0	
927.490800	29.6	1000.0	120.000	170.0	V	85.0	25.3	6.4	36.0	

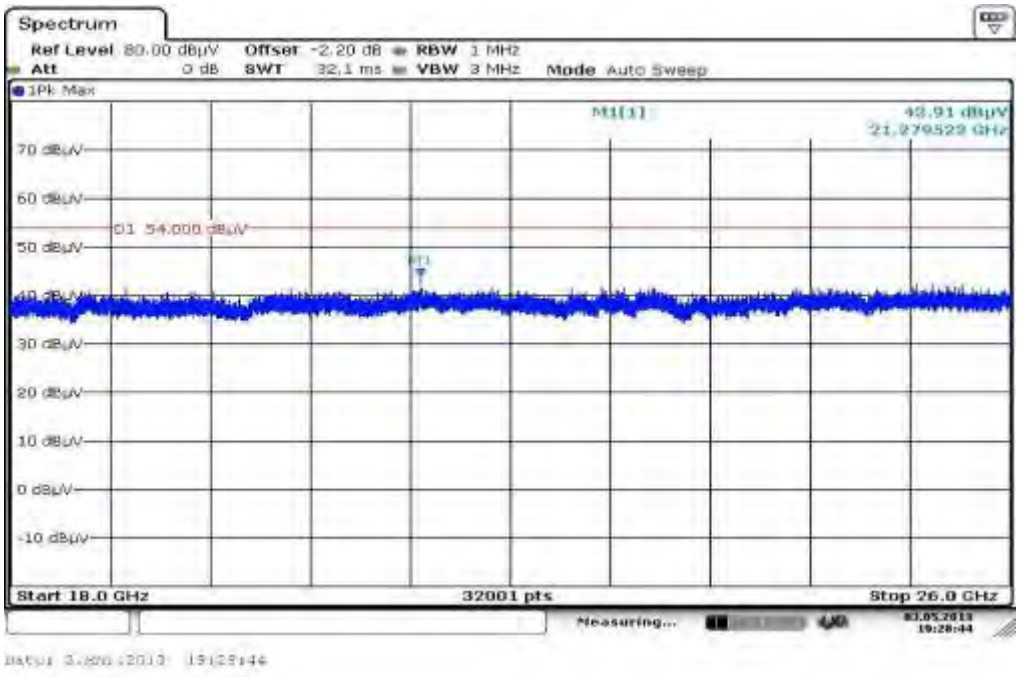
Plot 17: 1 GHz to 12.75 GHz, 5320 MHz, vertical & horizontal polarization



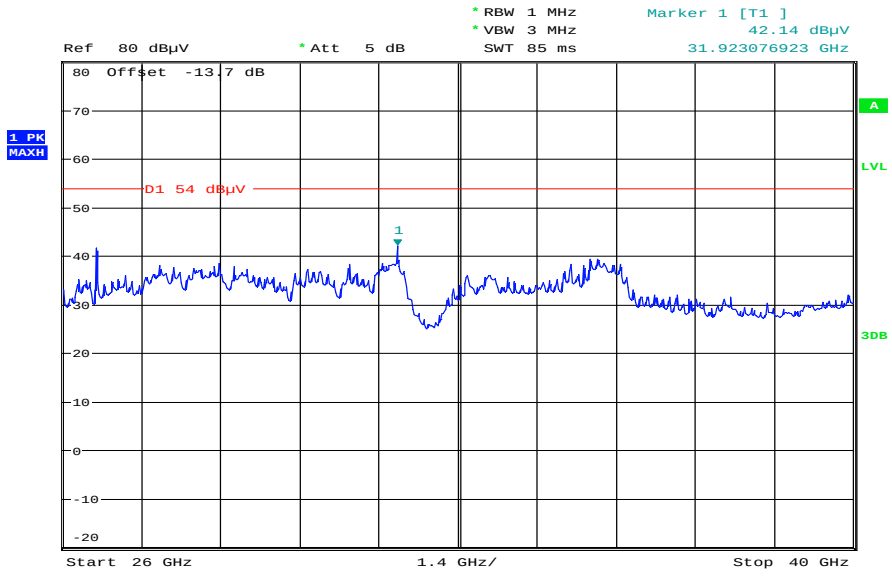
Plot 18: 12 GHz to 18 GHz, 5320 MHz, vertical & horizontal polarization



Plot 19: 18 GHz to 26 GHz, 5320 MHz, vertical & horizontal polarization



Plot 20: 26 GHz to 40 GHz, 5320 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:01:56

Plot 21: 30 MHz to 1 GHz, 5500 MHz, vertical & horizontal polarization

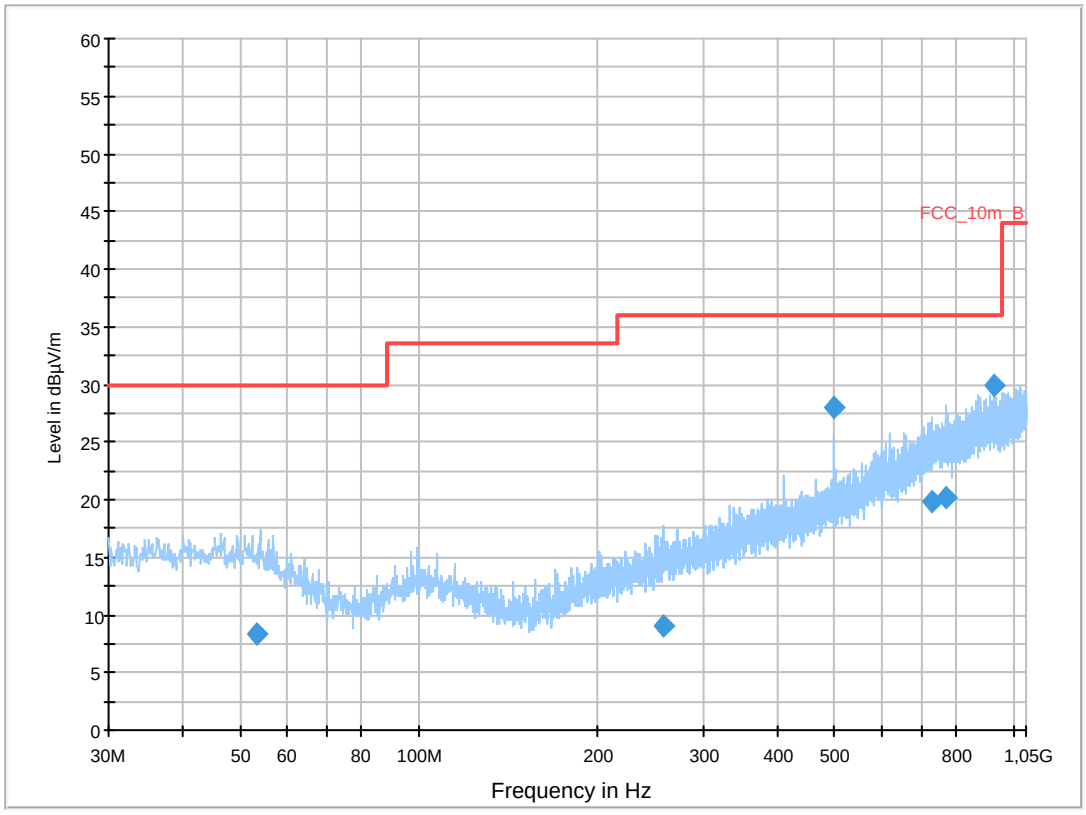
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	WLAN a mode tx @ 5500MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

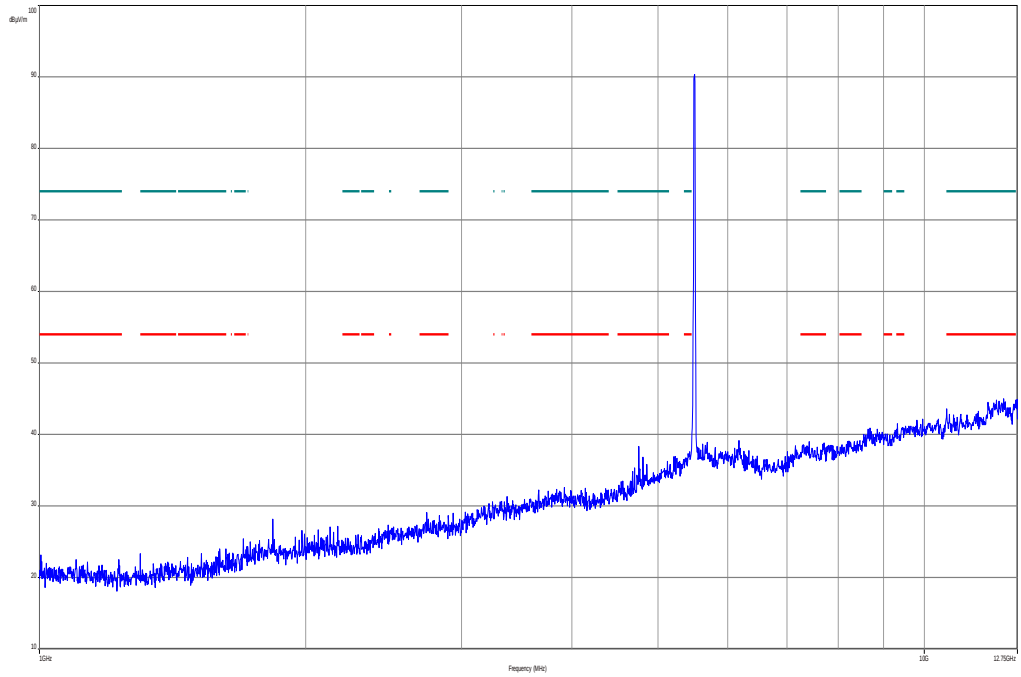
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



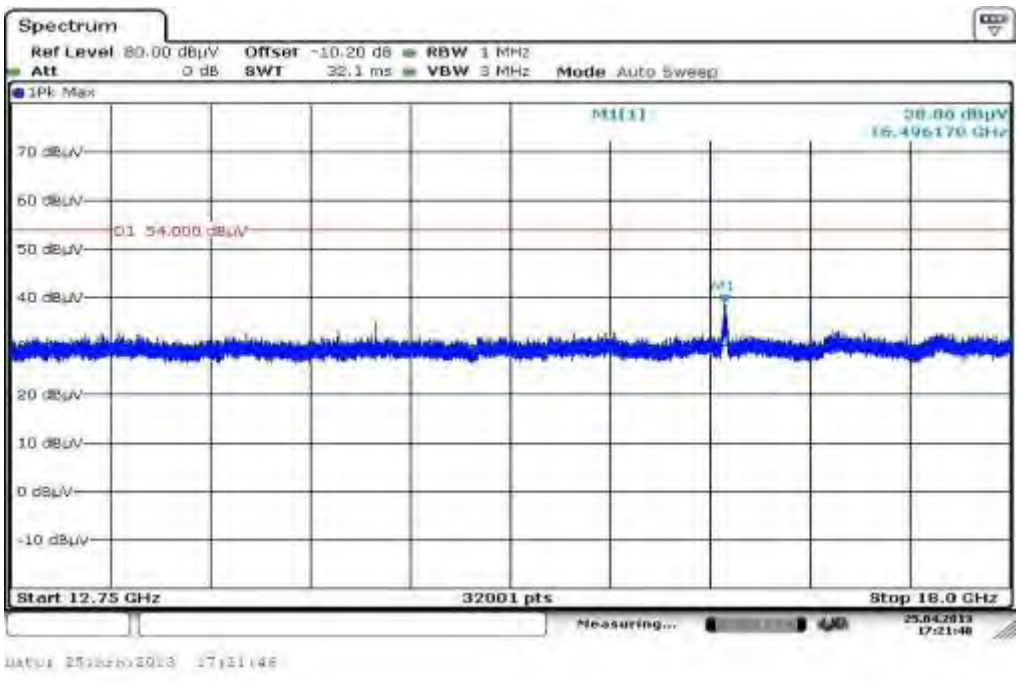
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
53.420250	8.3	1000.0	120.000	170.0	H	92.0	13.0	21.7	30.0	
256.940400	9.0	1000.0	120.000	98.0	V	2.0	13.5	27.0	36.0	
499.984950	27.9	1000.0	120.000	98.0	V	261.0	18.7	8.1	36.0	
730.326000	19.8	1000.0	120.000	170.0	V	190.0	23.2	16.2	36.0	
770.601000	20.1	1000.0	120.000	170.0	H	100.0	23.7	15.9	36.0	
927.404700	29.9	1000.0	120.000	170.0	V	85.0	25.3	6.1	36.0	

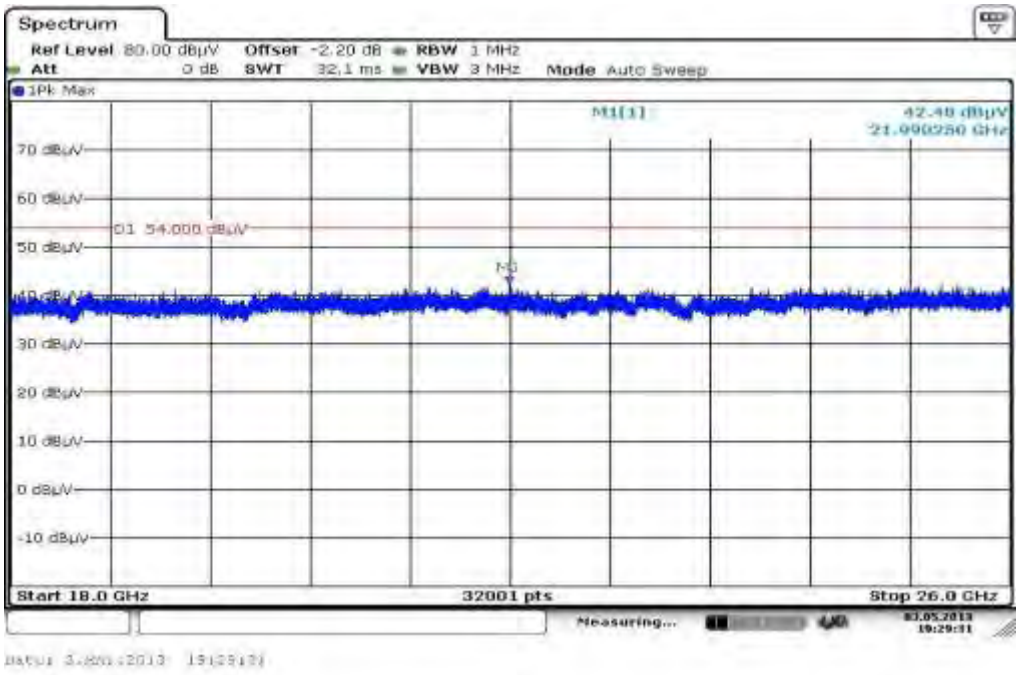
Plot 22: 1 GHz to 12.75 GHz, 5500 MHz, vertical & horizontal polarization



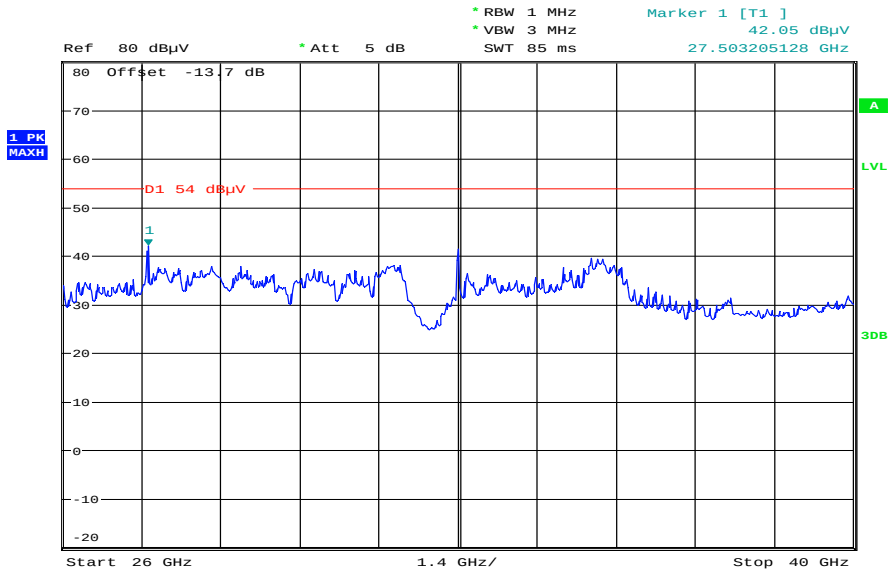
Plot 23: 12 GHz to 18 GHz, 5500 MHz, vertical & horizontal polarization



Plot 24: 18 GHz to 26 GHz, 5500 MHz, vertical & horizontal polarization



Plot 25: 26 GHz to 40 GHz, 5500 MHz, vertical & horizontal polarization



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Plot 26: 30 MHz to 1 GHz, 5600 MHz, vertical & horizontal polarization

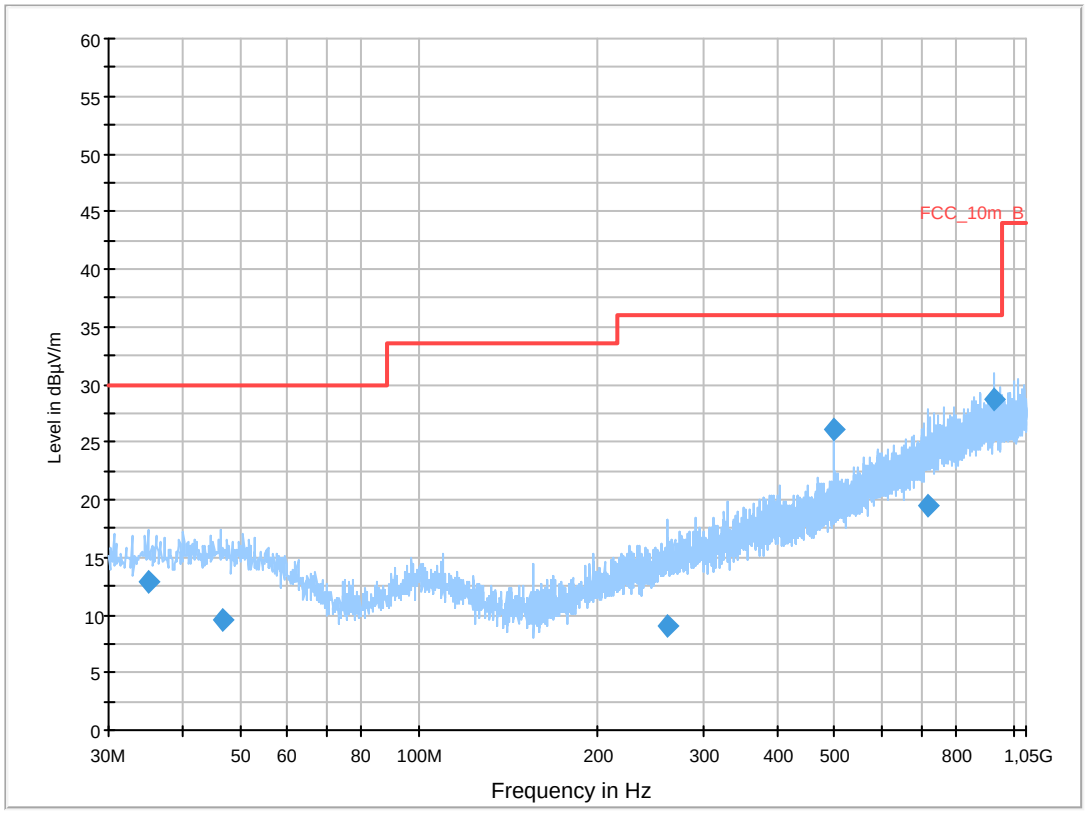
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	WLAN a mode tx @ 5600MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

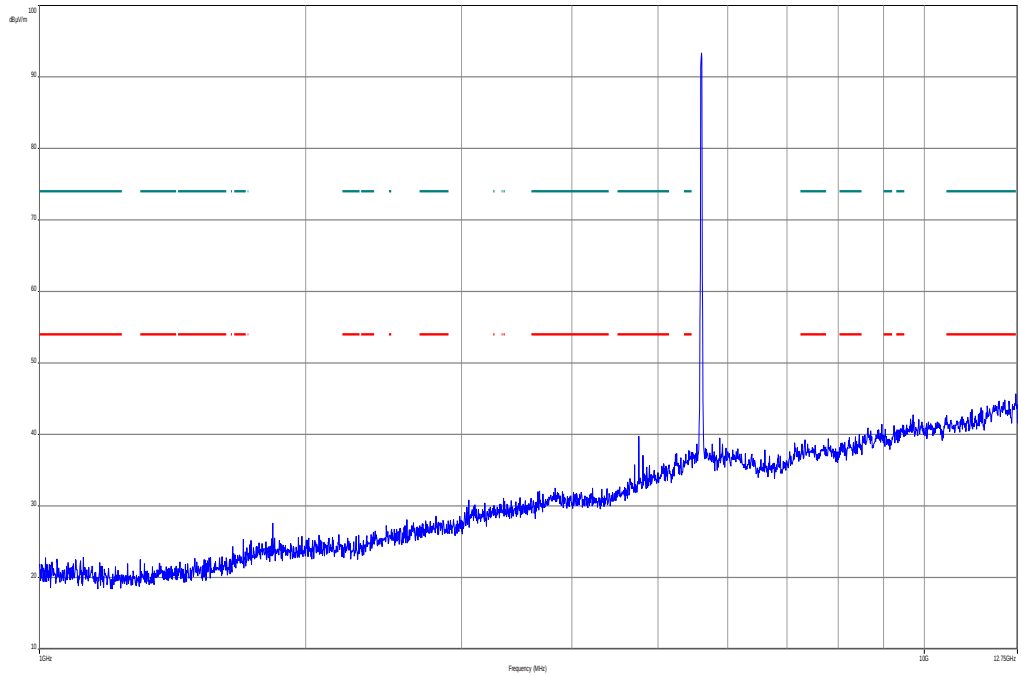
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



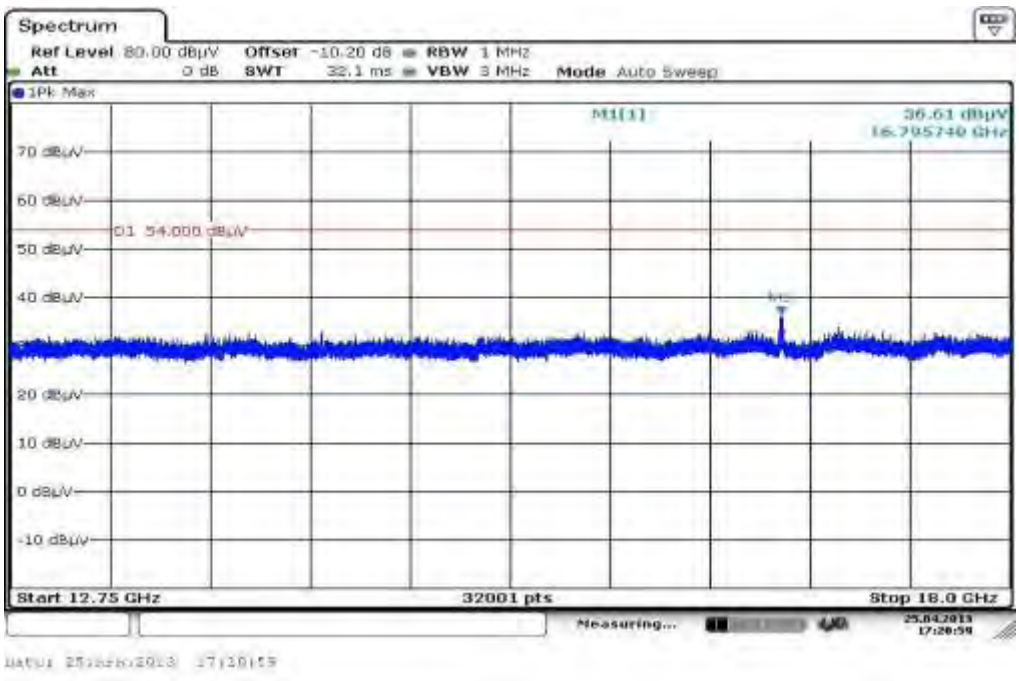
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
35.015250	12.9	1000.0	120.000	130.0	V	81.0	13.0	17.1	30.0	
46.602450	9.6	1000.0	120.000	121.0	V	182.0	13.3	20.4	30.0	
261.436500	9.1	1000.0	120.000	143.0	H	190.0	13.6	26.9	36.0	
499.995300	26.1	1000.0	120.000	98.0	V	261.0	18.7	9.9	36.0	
718.450050	19.5	1000.0	120.000	170.0	V	-5.0	22.9	16.5	36.0	
927.438300	28.7	1000.0	120.000	98.0	V	176.0	25.3	7.3	36.0	

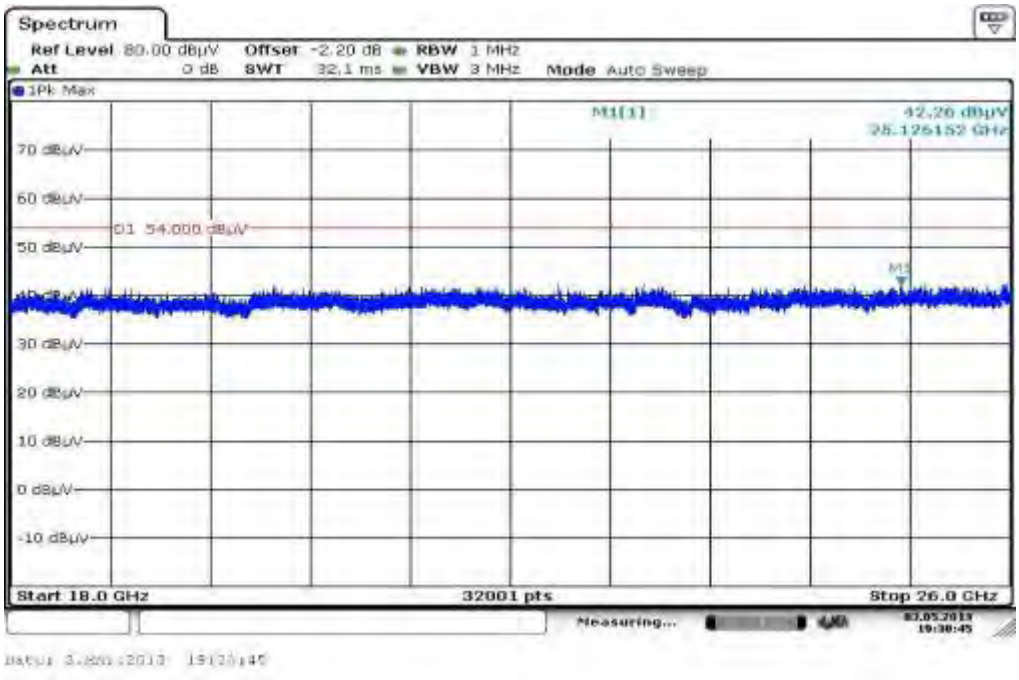
Plot 27: 1 GHz to 12.75 GHz, 5600 MHz, vertical & horizontal polarization



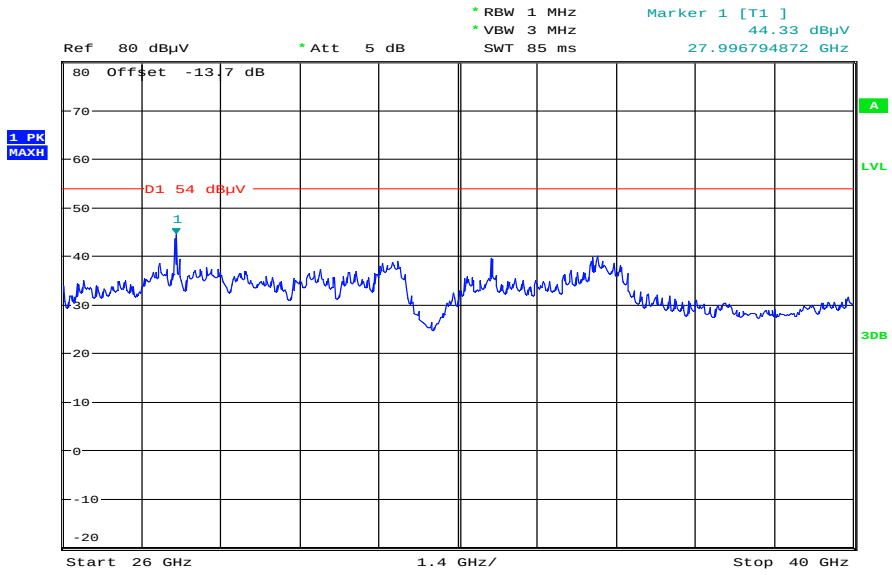
Plot 28: 12 GHz to 18 GHz, 5600 MHz, vertical & horizontal polarization



Plot 29: 18 GHz to 26 GHz, 5600 MHz, vertical & horizontal polarization



Plot 30: 26 GHz to 40 GHz, 5600 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:04:45

Plot 31: 30 MHz to 1 GHz, 5700 MHz, vertical & horizontal polarization

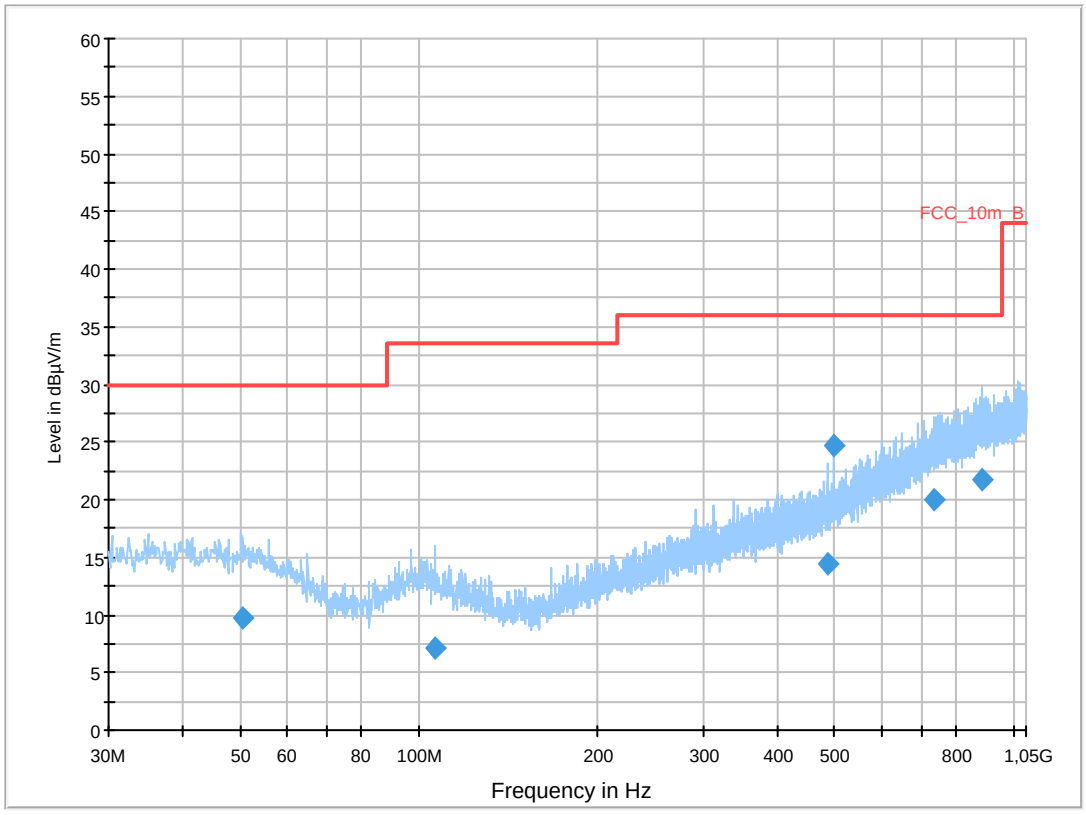
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	WLAN a mode tx @ 5700MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

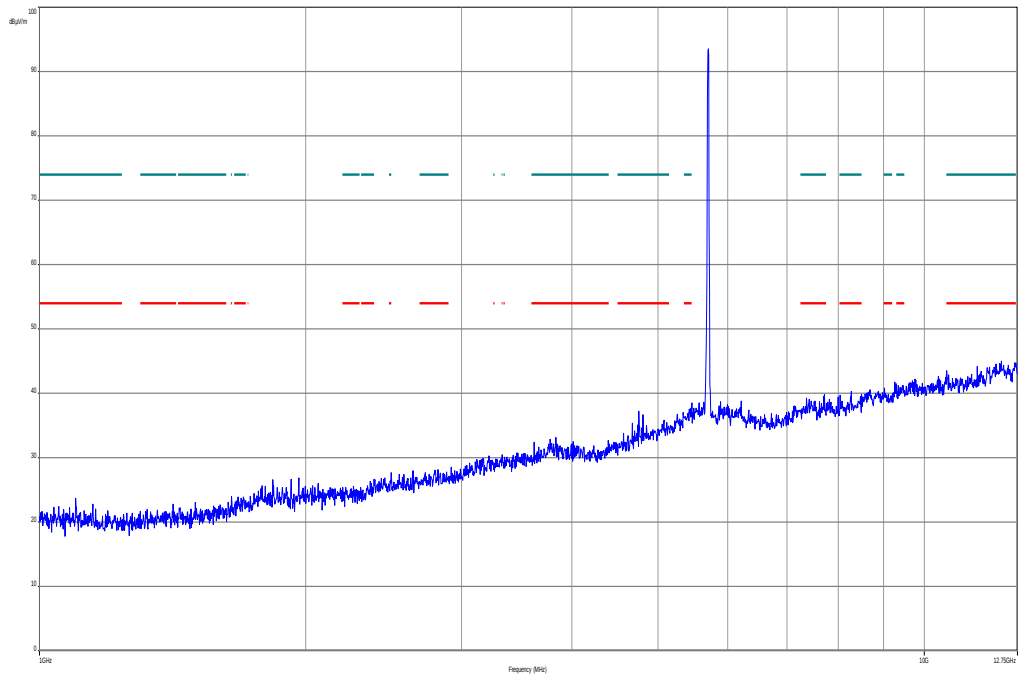
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



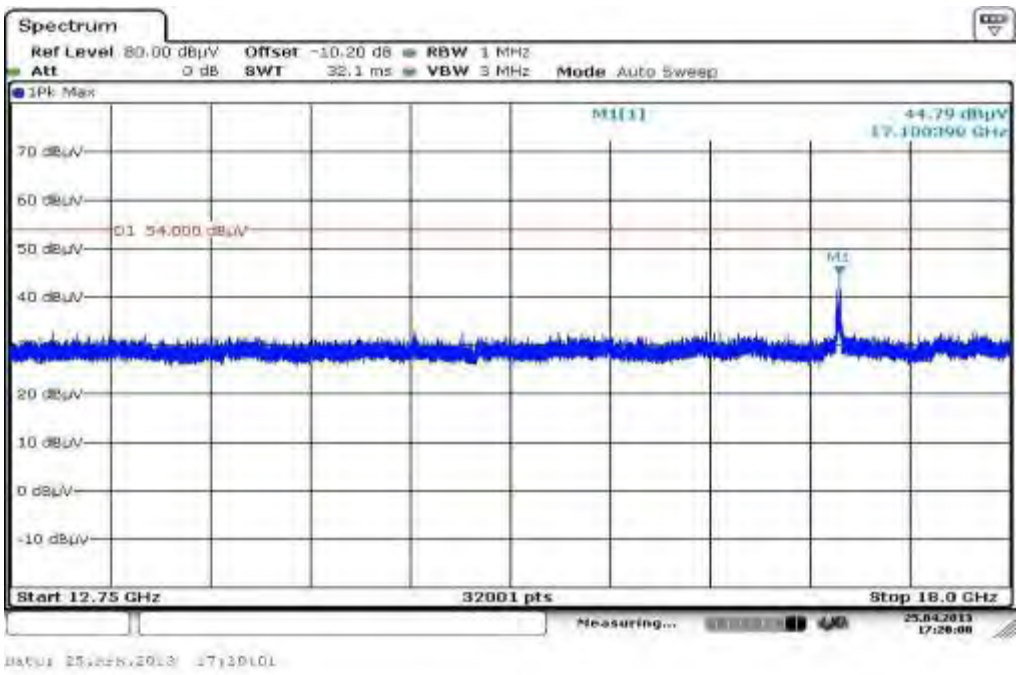
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
50.501250	9.7	1000.0	120.000	170.0	V	190.0	13.3	20.3	30.0	
106.057350	7.1	1000.0	120.000	170.0	V	170.0	11.4	26.4	33.5	
486.894600	14.5	1000.0	120.000	170.0	H	10.0	18.4	21.5	36.0	
499.985250	24.7	1000.0	120.000	98.0	V	280.0	18.7	11.3	36.0	
736.018200	19.9	1000.0	120.000	170.0	V	-10.0	23.3	16.1	36.0	
886.602000	21.7	1000.0	120.000	170.0	V	280.0	25.0	14.3	36.0	

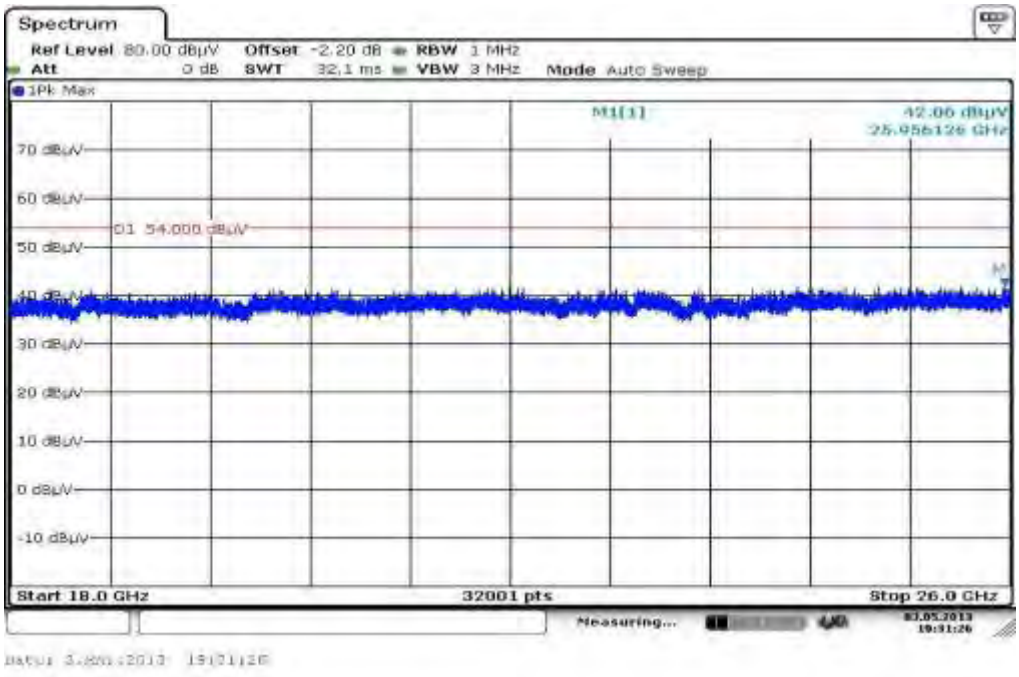
Plot 32: 1 GHz to 12.75 GHz, 5700 MHz, vertical & horizontal polarization



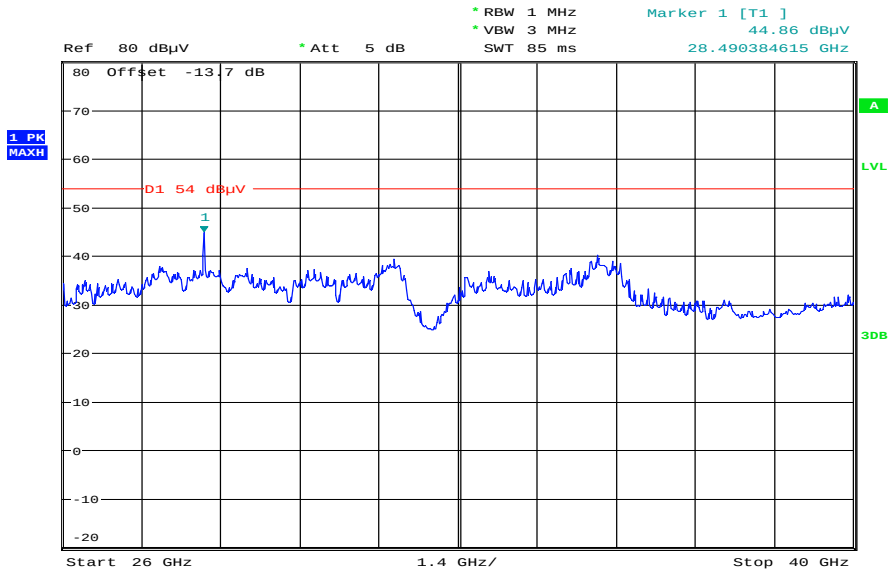
Plot 33: 12 GHz to 18 GHz, 5700 MHz, vertical & horizontal polarization



Plot 34: 18 GHz to 26 GHz, 5700 MHz, vertical & horizontal polarization



Plot 35: 26 GHz to 40 GHz, 5700 MHz, vertical & horizontal polarization



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Plots: OFDM / n – mode HT20

Plot 1: 30 MHz to 1 GHz, 5180 MHz, vertical & horizontal polarization

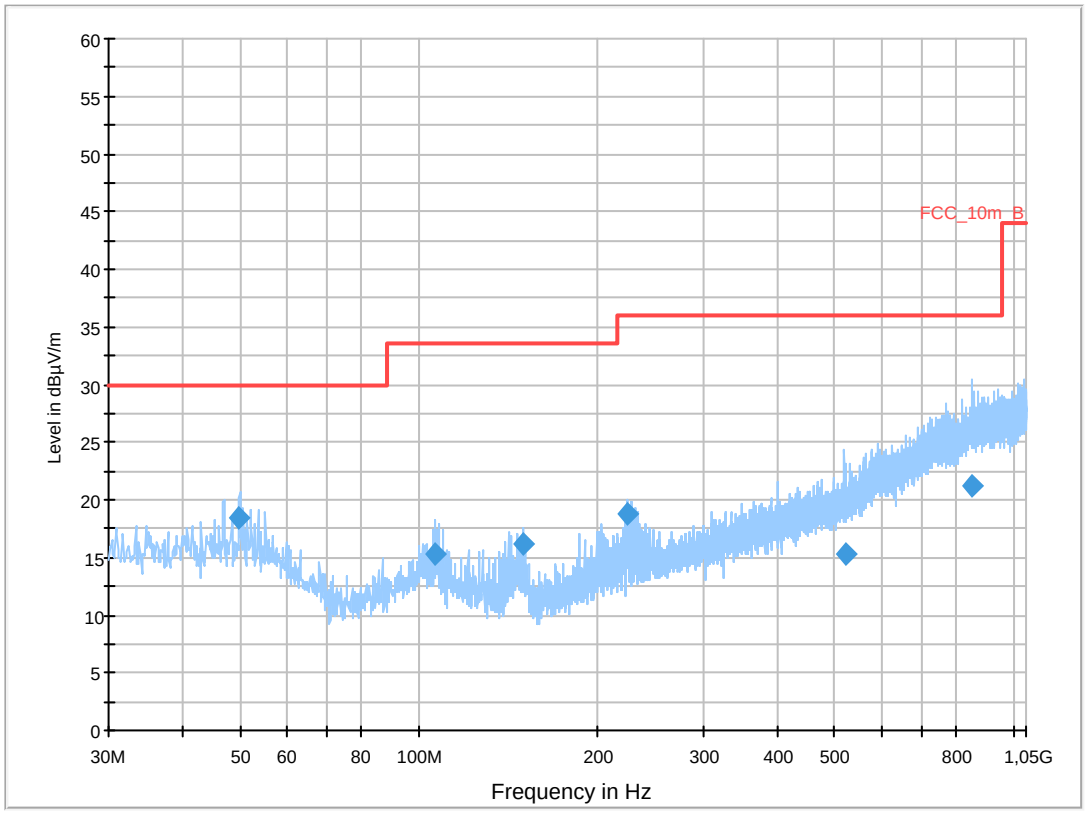
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan tx n-mode HT20 ch36
Operator Name:	Wolsdorfer
Comment:	AC: 230 V / 50 Hz; grounded

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

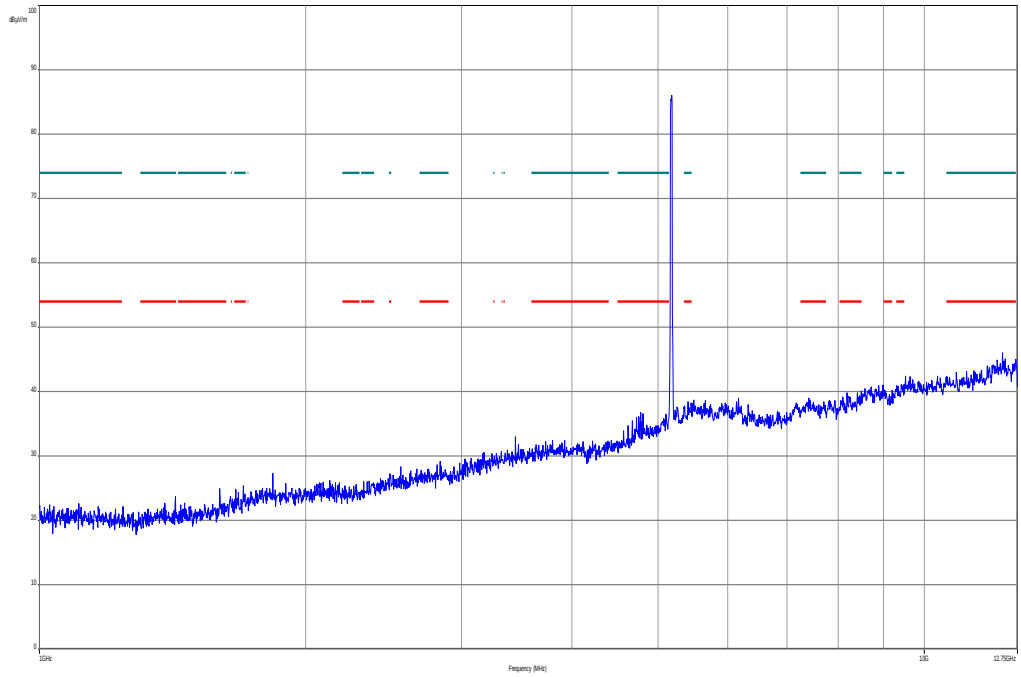
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



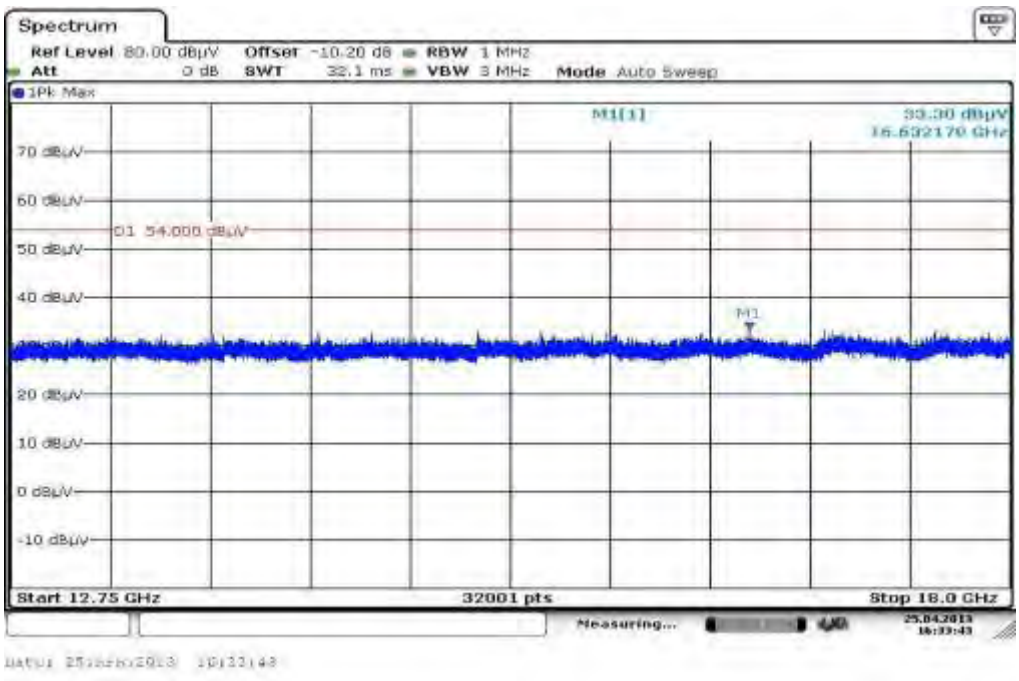
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
49.838100	18.5	1000.0	120.000	98.0	V	2.0	13.4	11.5	30.0	
106.482900	15.2	1000.0	120.000	121.0	V	-5.0	11.3	18.3	33.5	
149.524200	16.2	1000.0	120.000	105.0	V	261.0	8.9	17.3	33.5	
224.276700	18.9	1000.0	120.000	170.0	V	10.0	12.5	17.1	36.0	
520.498950	15.4	1000.0	120.000	170.0	V	280.0	19.0	20.6	36.0	
848.801550	21.3	1000.0	120.000	120.0	H	280.0	24.5	14.7	36.0	

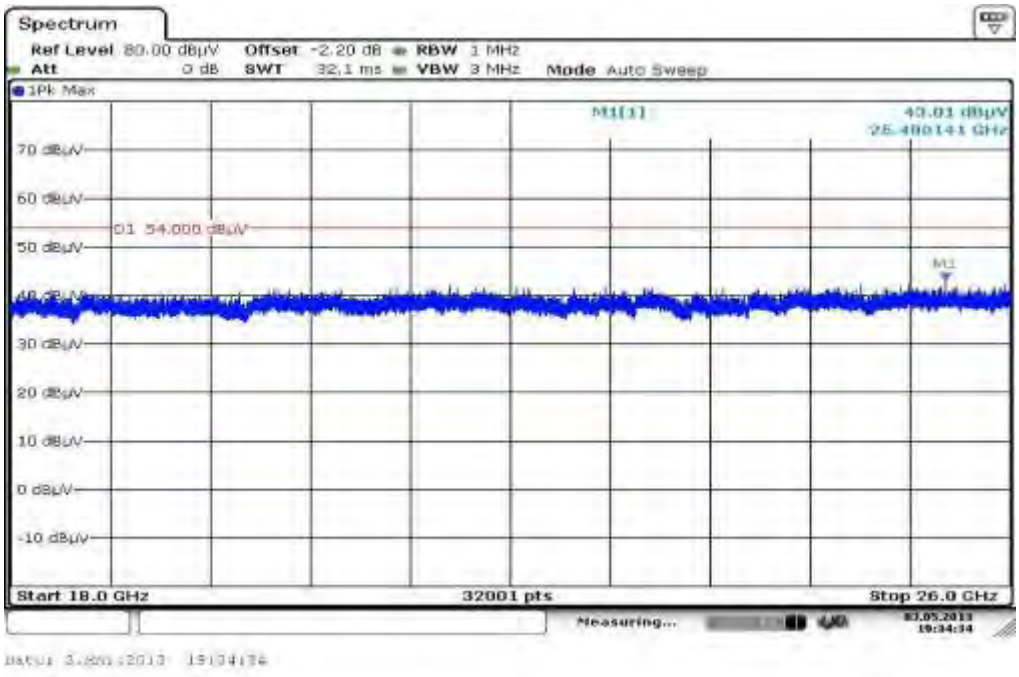
Plot 2: 1 GHz to 12.75 GHz, 5180 MHz, vertical & horizontal polarization



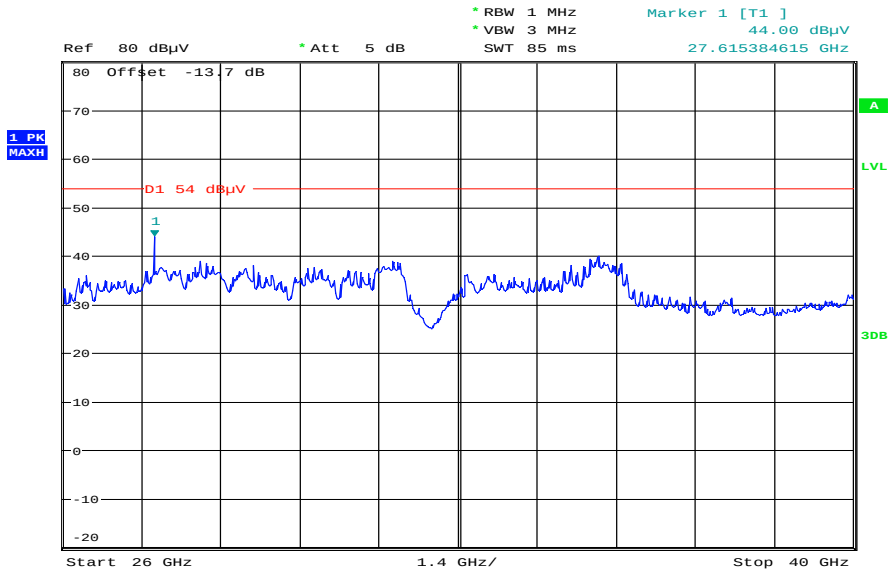
Plot 3: 12 GHz to 18 GHz, 5180 MHz, vertical & horizontal polarization



Plot 4: 18 GHz to 26 GHz, 5180 MHz, vertical & horizontal polarization



Plot 5: 26 GHz to 40 GHz, 5180 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:13:57

Plot 6: 30 MHz to 1 GHz, 5240 MHz, vertical & horizontal polarization

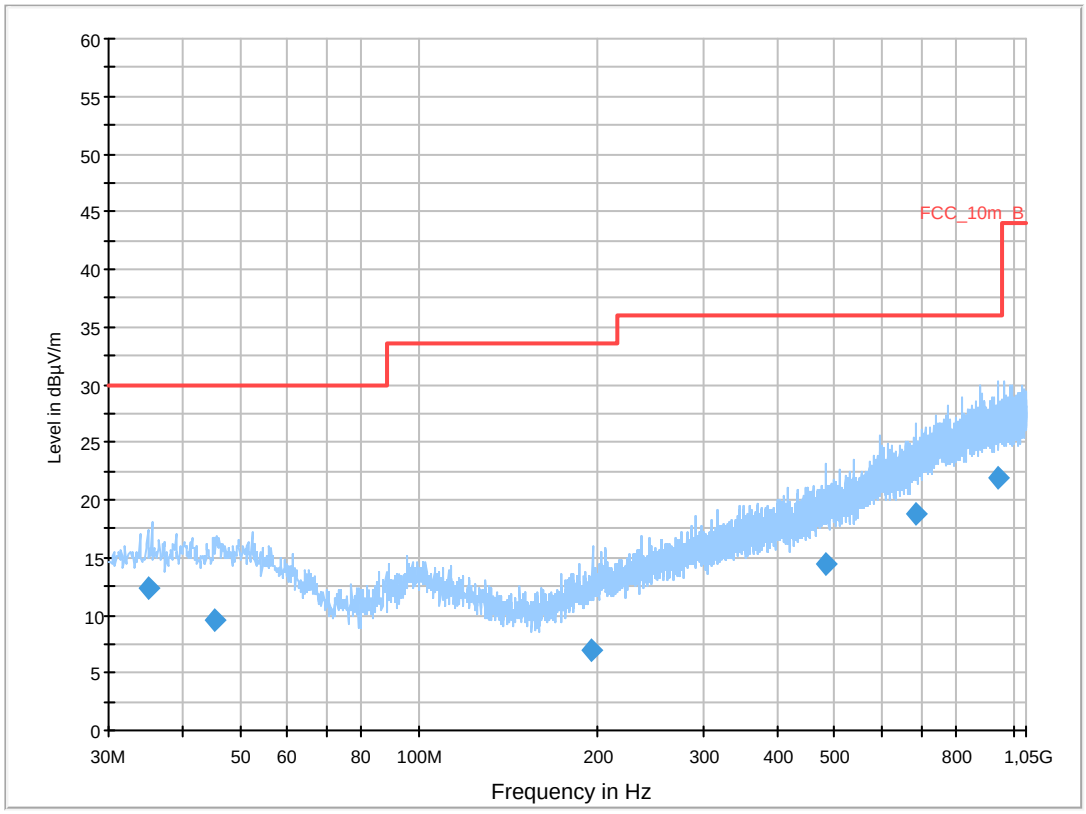
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT20 tx @ 5240MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

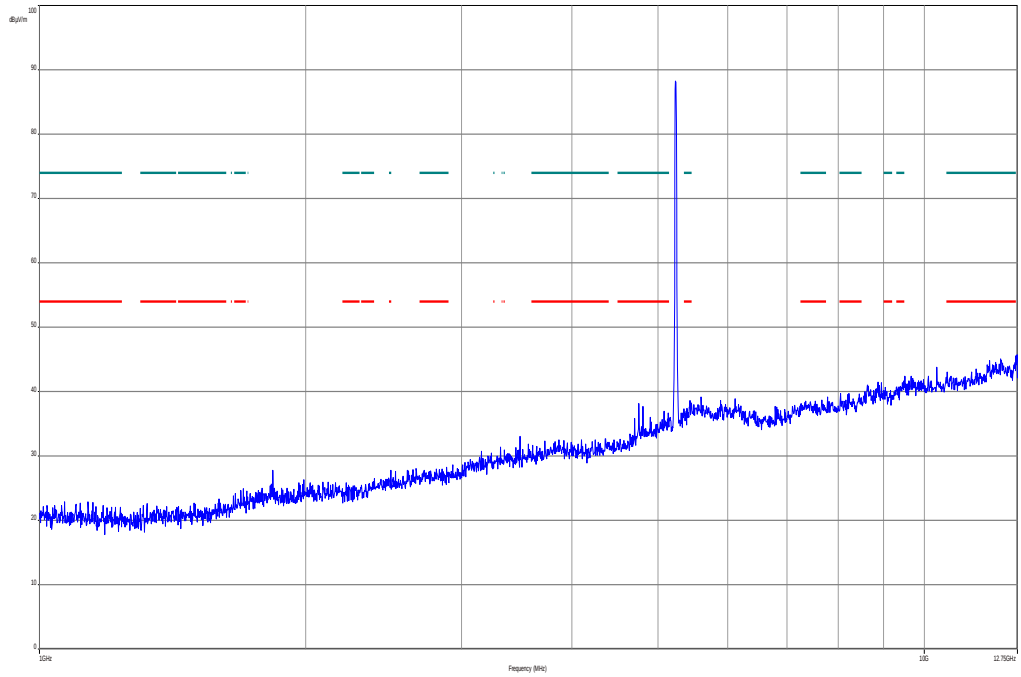
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



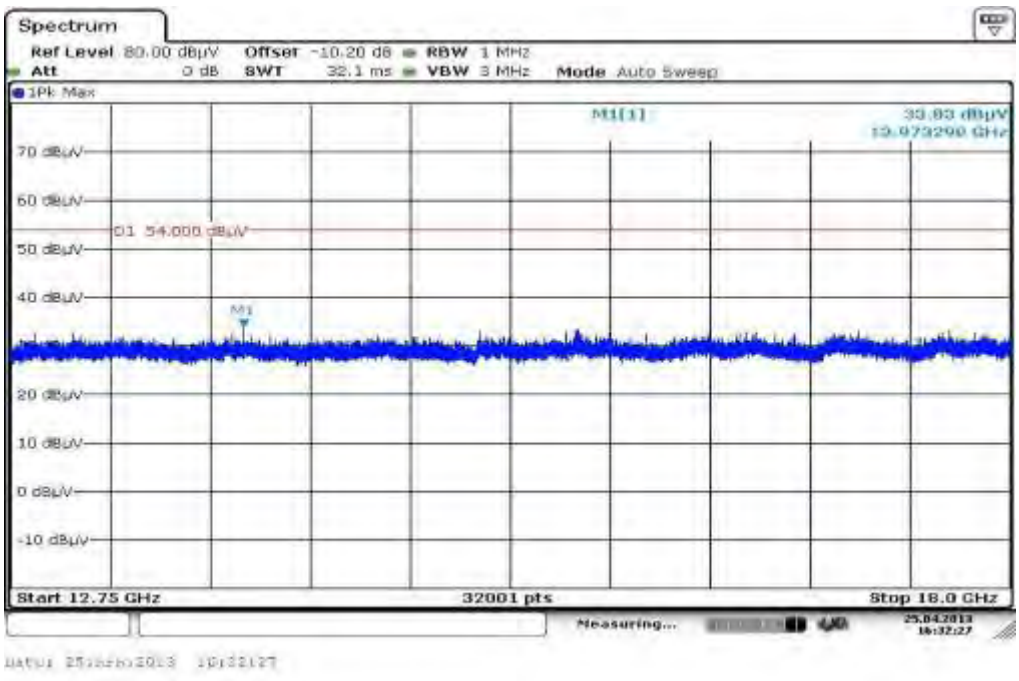
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
35.017950	12.3	1000.0	120.000	154.0	V	171.0	13.0	17.7	30.0	
45.232050	9.6	1000.0	120.000	170.0	H	280.0	13.3	20.4	30.0	
195.321300	6.9	1000.0	120.000	170.0	H	10.0	11.4	26.6	33.5	
482.151150	14.4	1000.0	120.000	111.0	H	171.0	18.3	21.6	36.0	
687.313050	18.8	1000.0	120.000	98.0	V	190.0	22.2	17.2	36.0	
942.930900	21.9	1000.0	120.000	170.0	H	10.0	25.3	14.1	36.0	

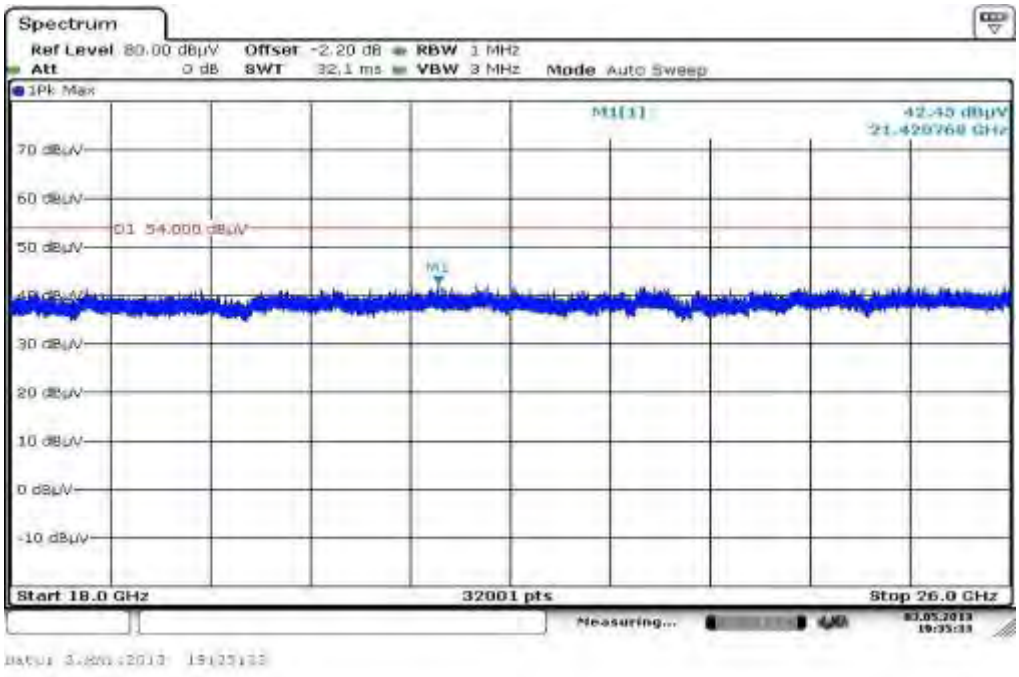
Plot 7: 1 GHz to 12.75 GHz, 5240 MHz, vertical & horizontal polarization



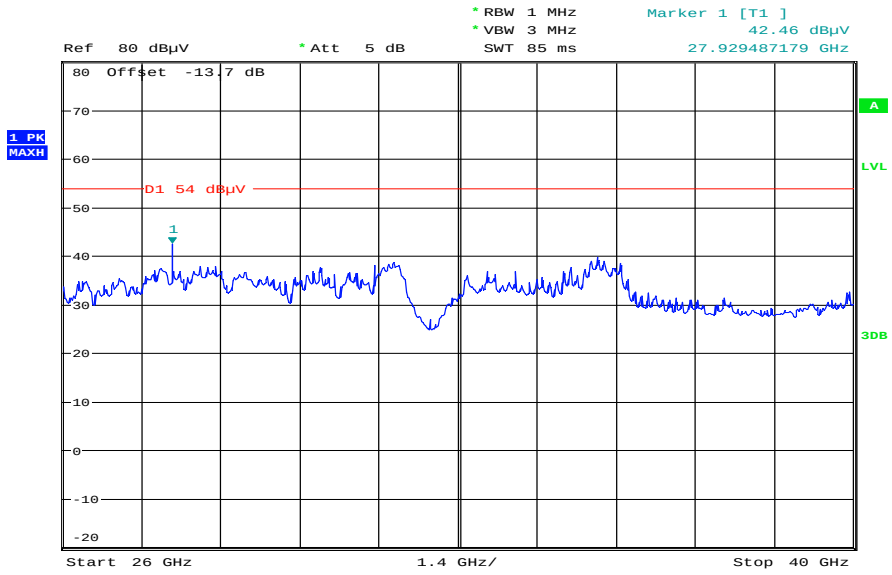
Plot 8: 12 GHz to 18 GHz, 5240 MHz, vertical & horizontal polarization



Plot 9: 18 GHz to 26 GHz, 5240 MHz, vertical & horizontal polarization



Plot 10: 26 GHz to 40 GHz, 5240 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:15:08

Plot 11: 30 MHz to 1 GHz, 5260 MHz, vertical & horizontal polarization

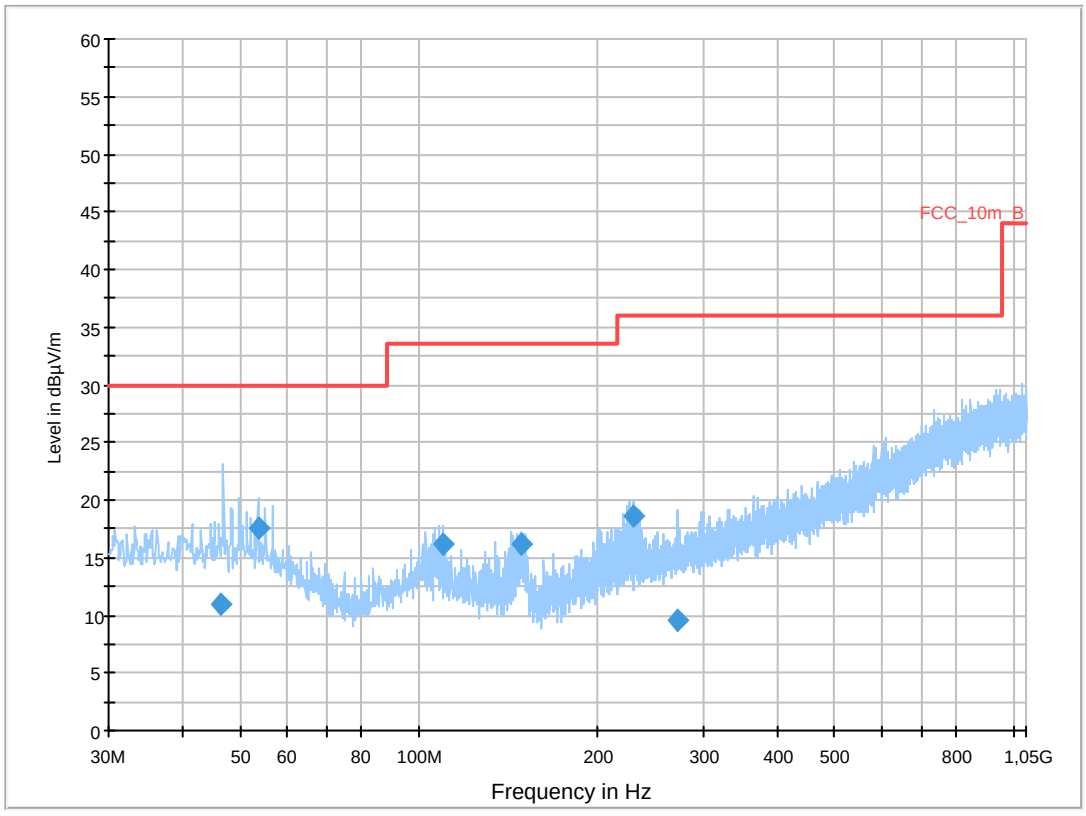
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan tx n-mode HT20 5260 MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

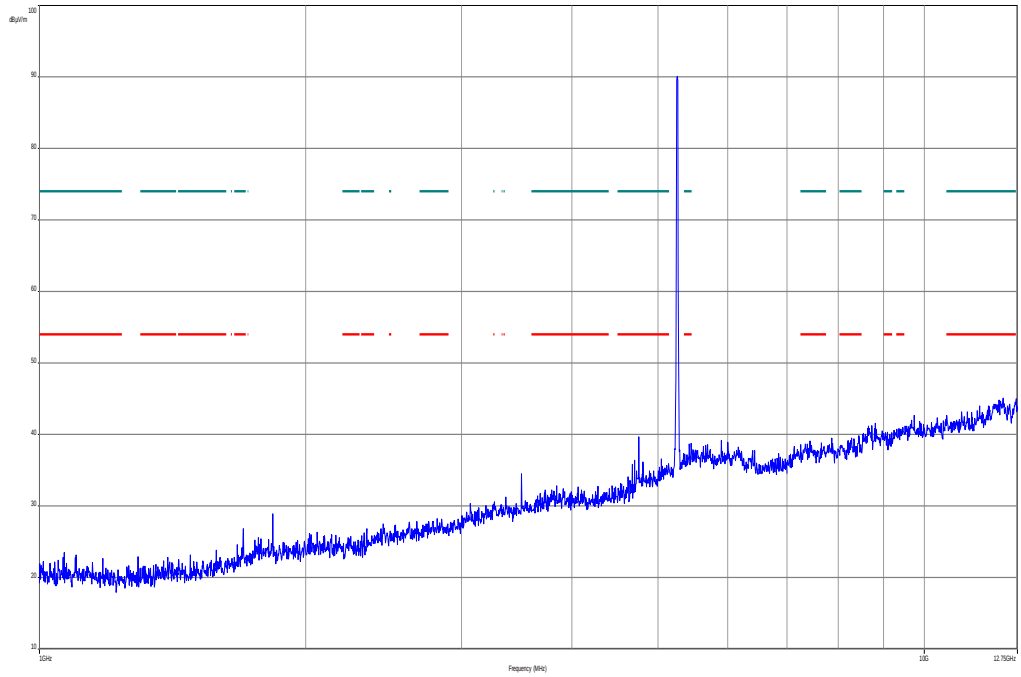
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



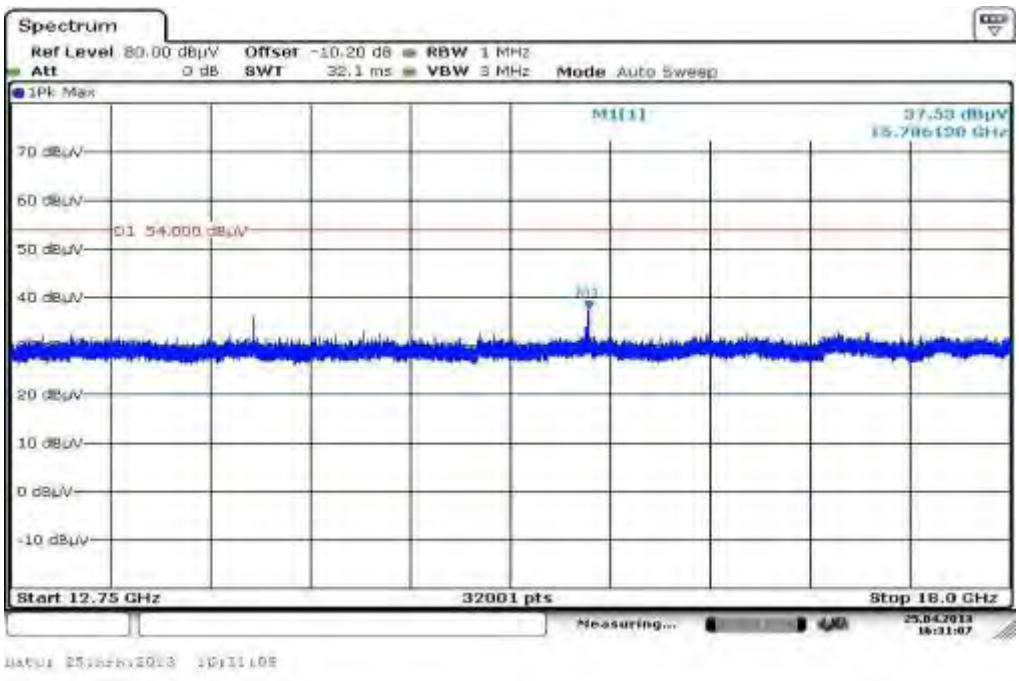
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
46.243650	11.0	1000.0	120.000	98.0	V	182.0	13.3	19.0	30.0	
53.606250	17.6	1000.0	120.000	112.0	V	-10.0	13.0	12.4	30.0	
109.474950	16.2	1000.0	120.000	170.0	V	-10.0	11.1	17.3	33.5	
147.995100	16.2	1000.0	120.000	98.0	V	280.0	8.9	17.3	33.5	
228.788100	18.6	1000.0	120.000	134.0	V	10.0	12.7	17.4	36.0	
271.394550	9.5	1000.0	120.000	170.0	H	280.0	13.8	26.5	36.0	

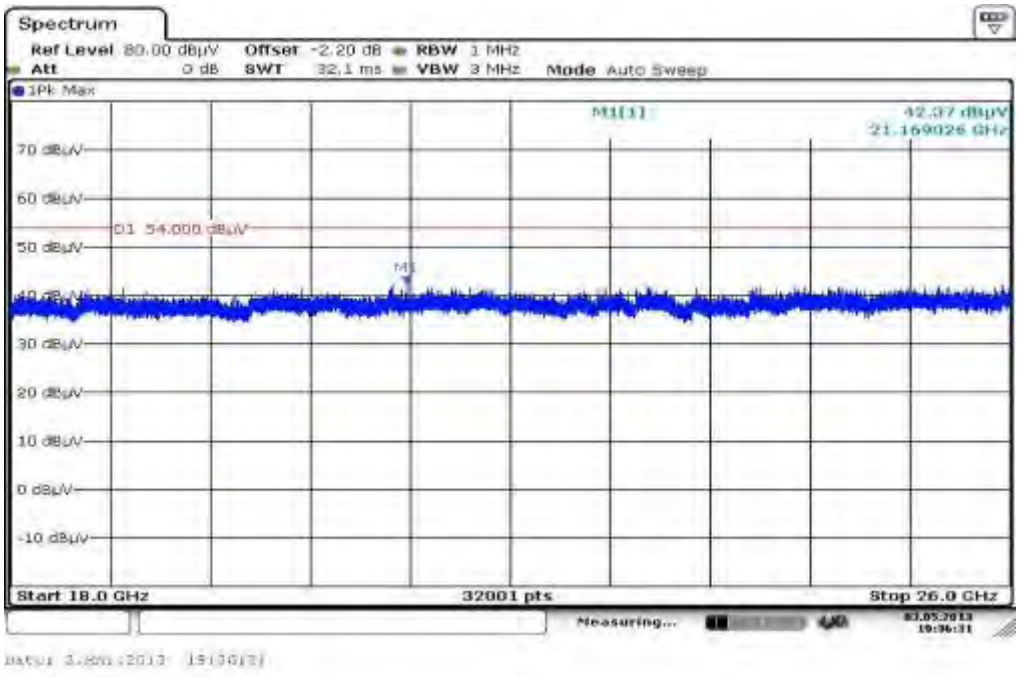
Plot 12: 1 GHz to 12.75 GHz, 5260 MHz, vertical & horizontal polarization



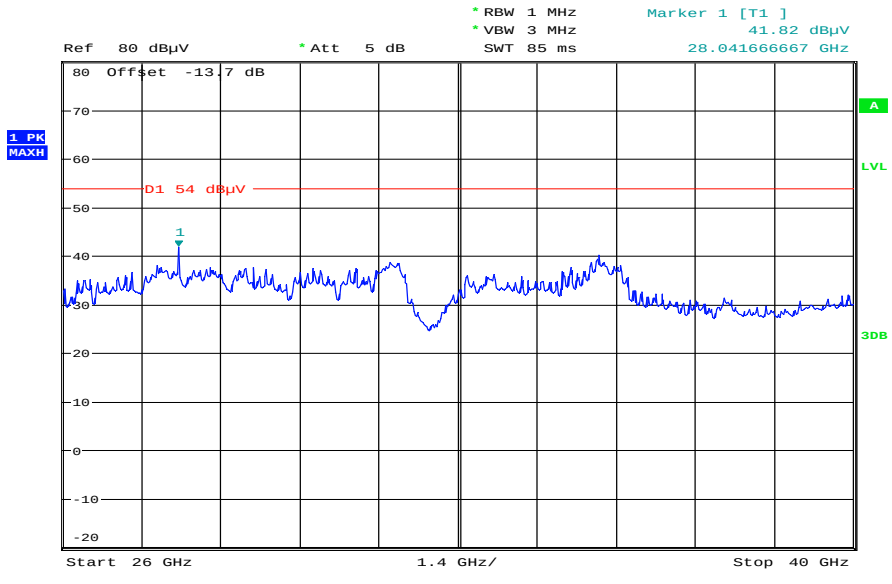
Plot 13: 12 GHz to 18 GHz, 5260 MHz, vertical & horizontal polarization



Plot 14: 18 GHz to 26 GHz, 5260 MHz, vertical & horizontal polarization



Plot 15: 26 GHz to 40 GHz, 5260 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:16:27

Plot 16: 30 MHz to 1 GHz, 5320 MHz, vertical & horizontal polarization

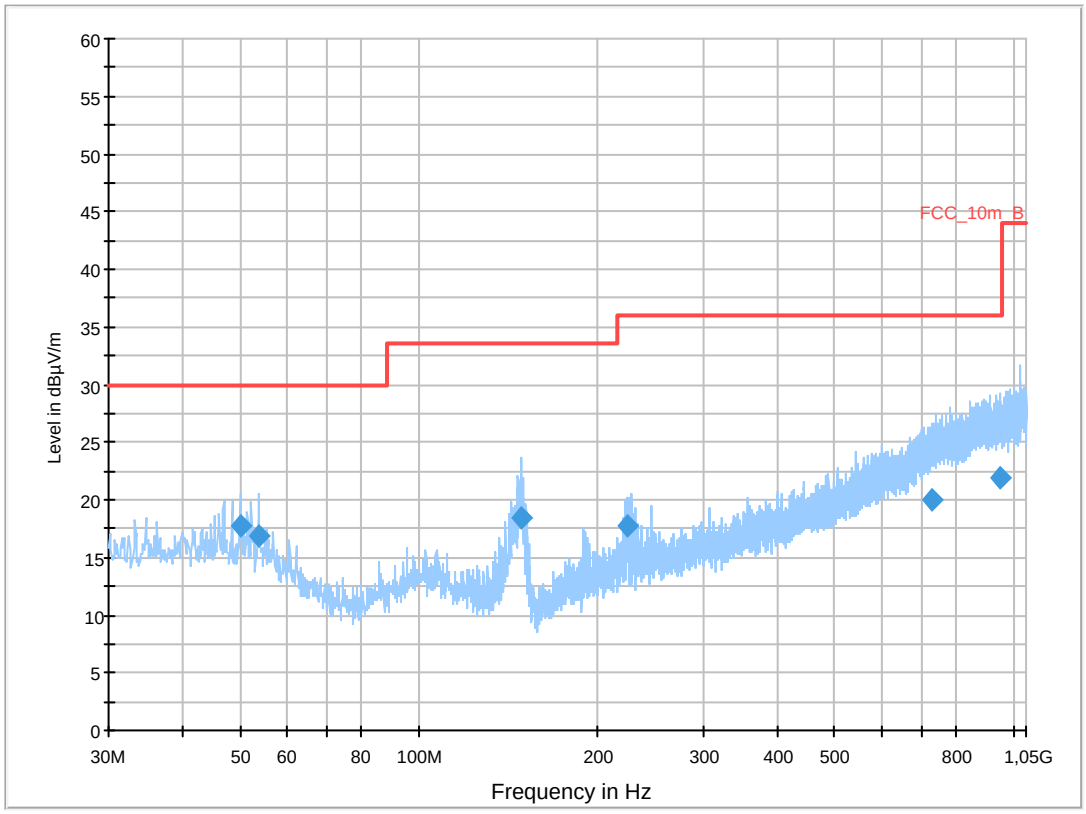
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan tx n-mode HT20 5320 MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

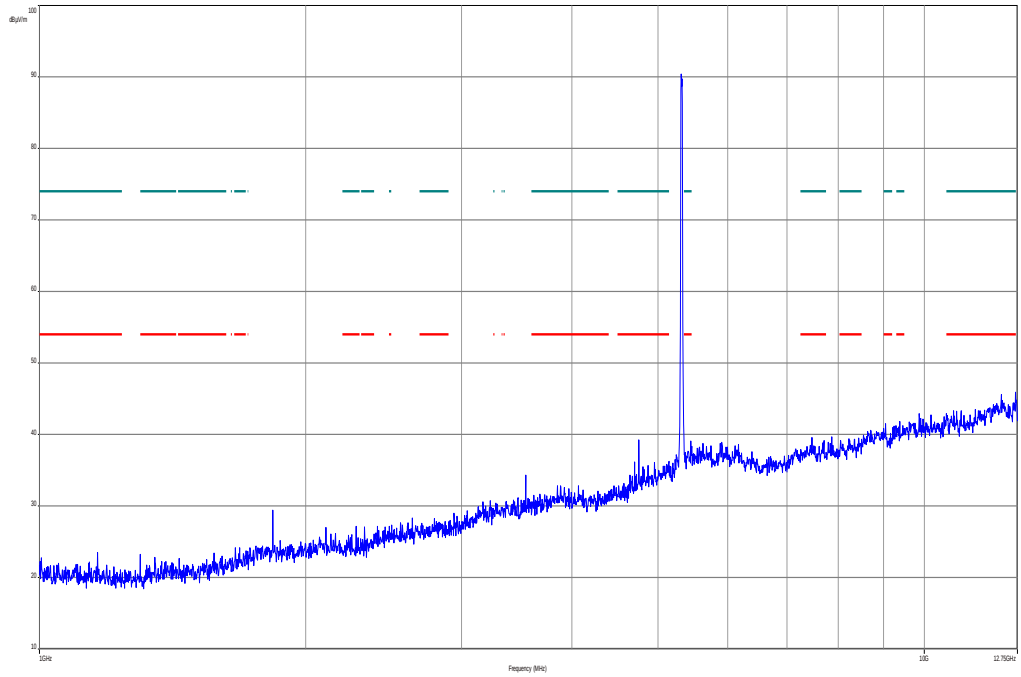
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



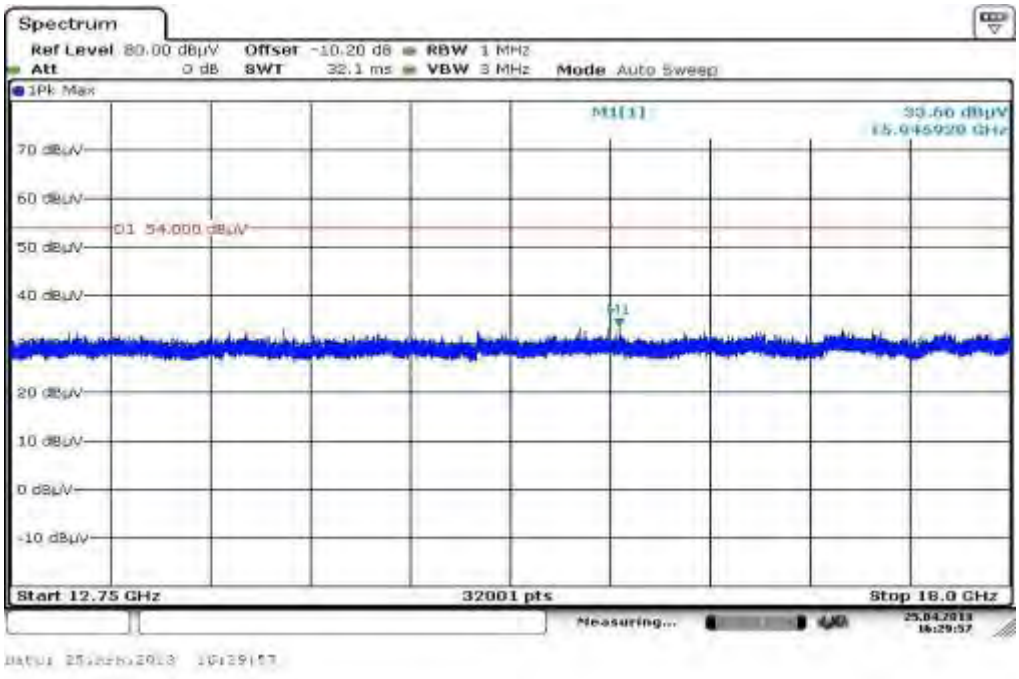
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
49.886100	17.8	1000.0	120.000	98.0	V	-5.0	13.4	12.2	30.0	
53.666700	16.9	1000.0	120.000	170.0	V	100.0	13.0	13.1	30.0	
148.159650	18.5	1000.0	120.000	170.0	V	0.0	8.9	15.0	33.5	
224.514450	17.7	1000.0	120.000	170.0	H	-10.0	12.5	18.3	36.0	
730.710900	19.9	1000.0	120.000	170.0	H	88.0	23.2	16.1	36.0	
947.430900	21.9	1000.0	120.000	120.0	H	-5.0	25.3	14.1	36.0	

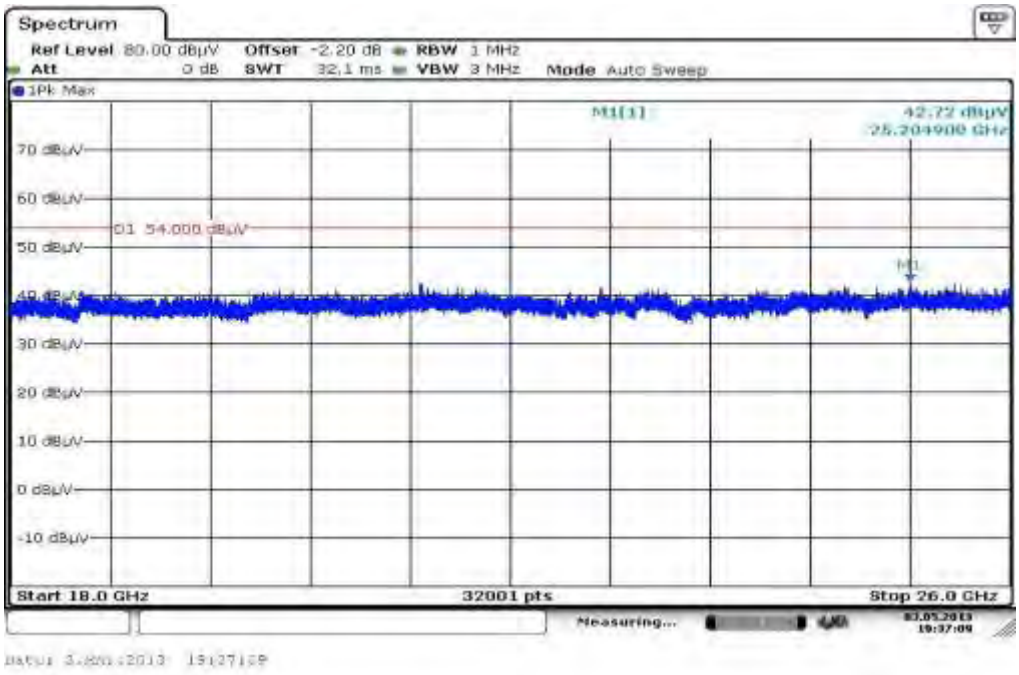
Plot 17: 1 GHz to 12.75 GHz, 5320 MHz, vertical & horizontal polarization



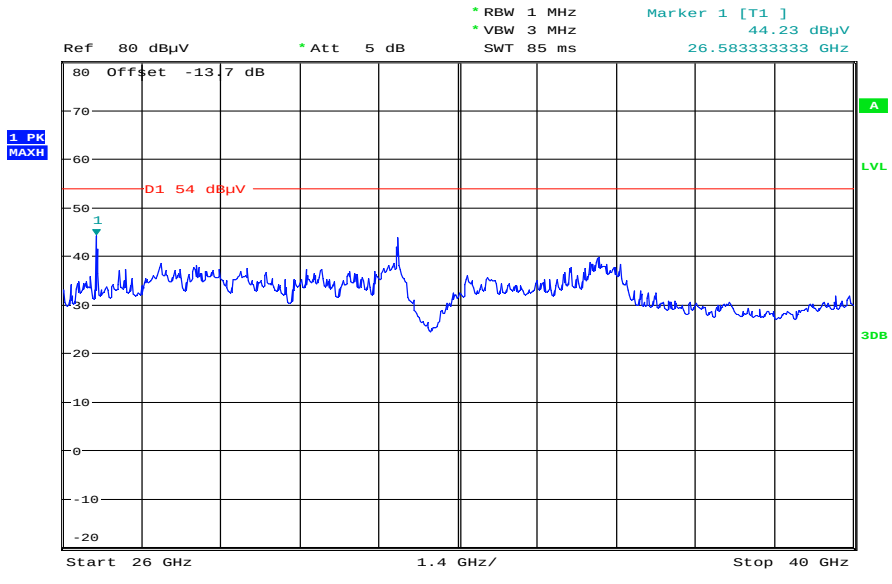
Plot 18: 12 GHz to 18 GHz, 5320 MHz, vertical & horizontal polarization



Plot 19: 18 GHz to 26 GHz, 5320 MHz, vertical & horizontal polarization



Plot 20: 26 GHz to 40 GHz, 5320 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:17:48

Plot 21: 30 MHz to 1 GHz, 5500 MHz, vertical & horizontal polarization

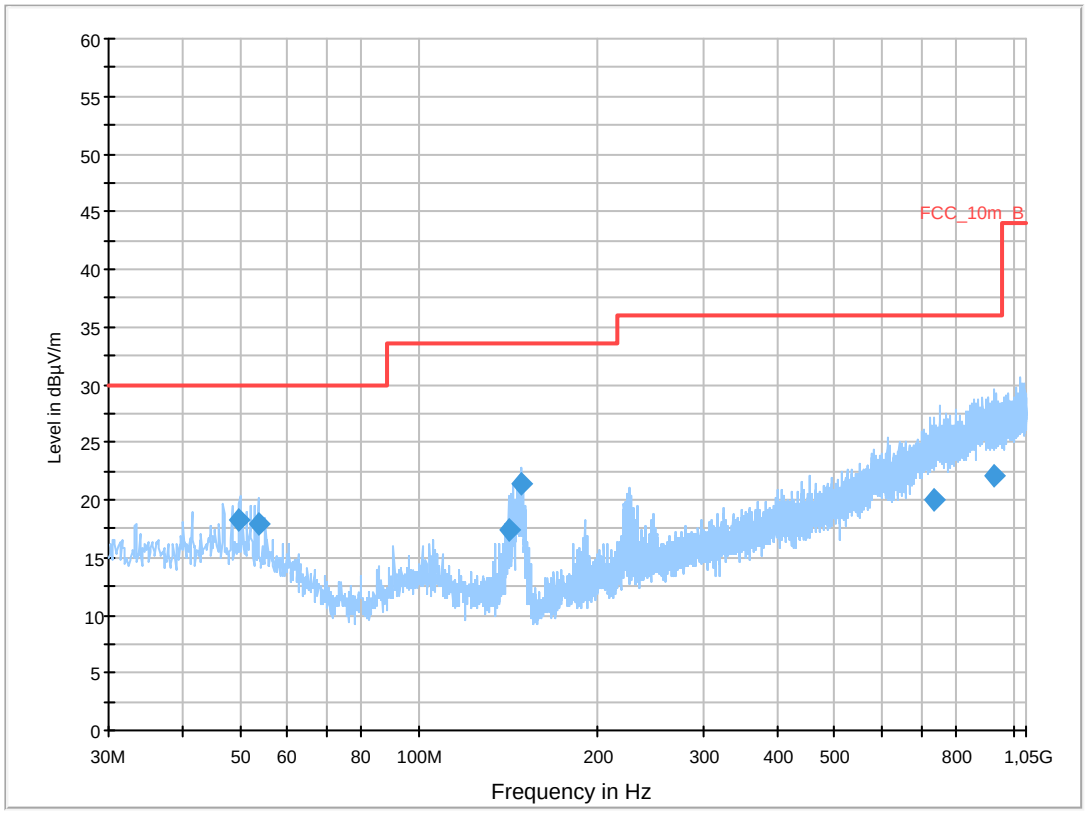
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan tx n-mode HT20 5500 MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

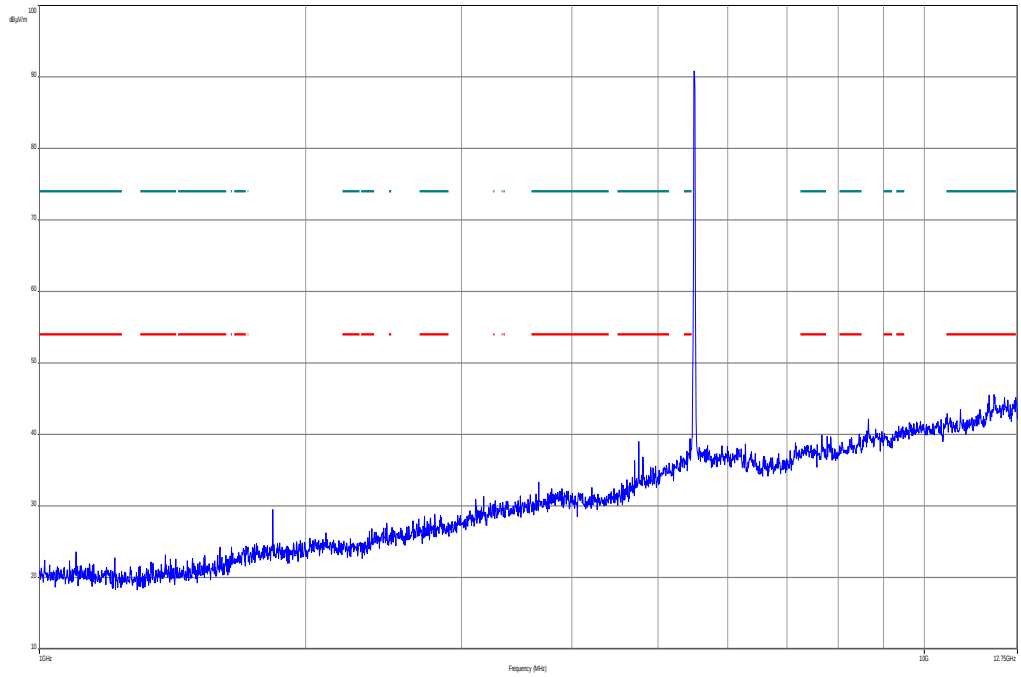
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



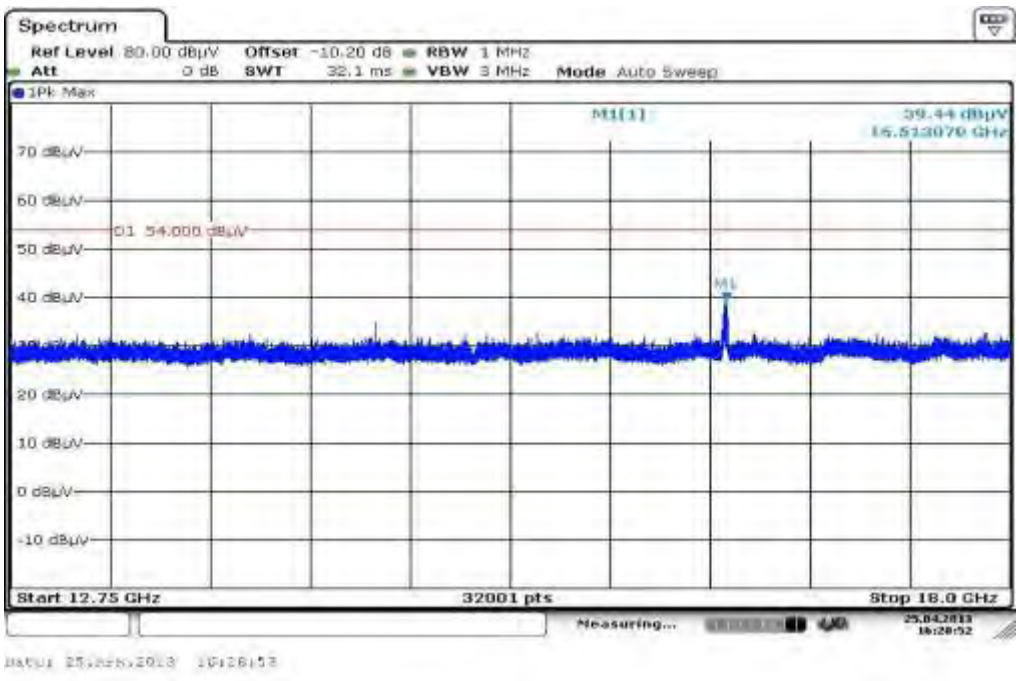
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
49.854300	18.2	1000.0	120.000	104.0	V	10.0	13.4	11.8	30.0	
53.629350	17.9	1000.0	120.000	111.0	V	175.0	13.0	12.1	30.0	
141.260700	17.4	1000.0	120.000	98.0	V	-10.0	8.7	16.1	33.5	
148.045650	21.4	1000.0	120.000	112.0	V	85.0	8.9	12.1	33.5	
735.665250	20.1	1000.0	120.000	170.0	H	190.0	23.3	15.9	36.0	
927.411000	22.2	1000.0	120.000	170.0	H	280.0	25.3	13.8	36.0	

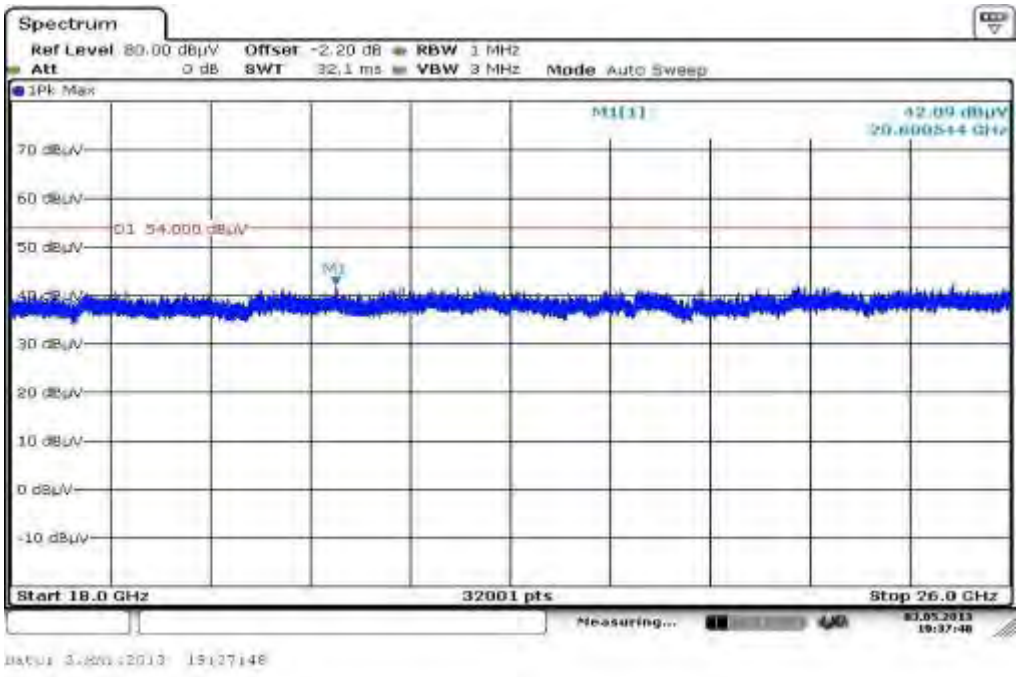
Plot 22: 1 GHz to 12.75 GHz, 5500 MHz, vertical & horizontal polarization



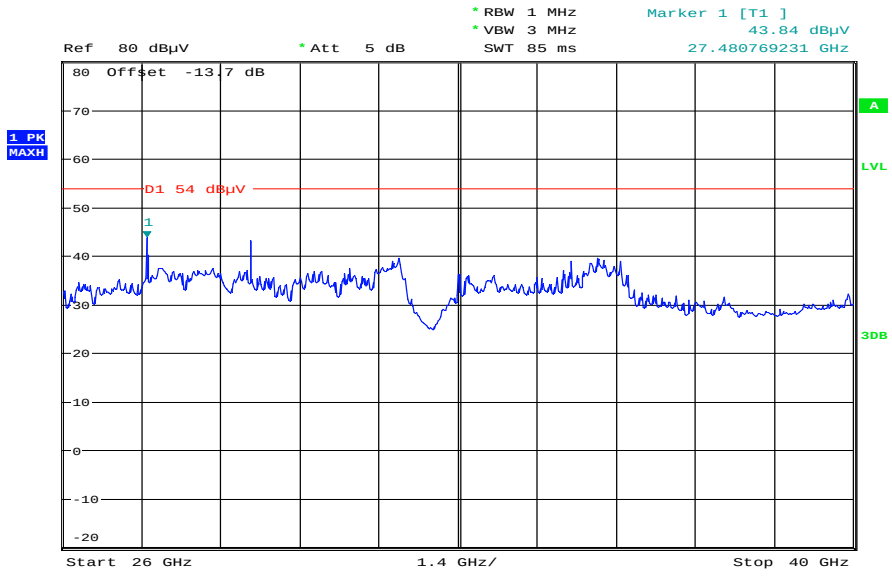
Plot 23: 12 GHz to 18 GHz, 5500 MHz, vertical & horizontal polarization



Plot 24: 18 GHz to 26 GHz, 5500 MHz, vertical & horizontal polarization



Plot 25: 26 GHz to 40 GHz, 5500 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:18:58

Plot 26: 30 MHz to 1 GHz, 5600 MHz, vertical & horizontal polarization

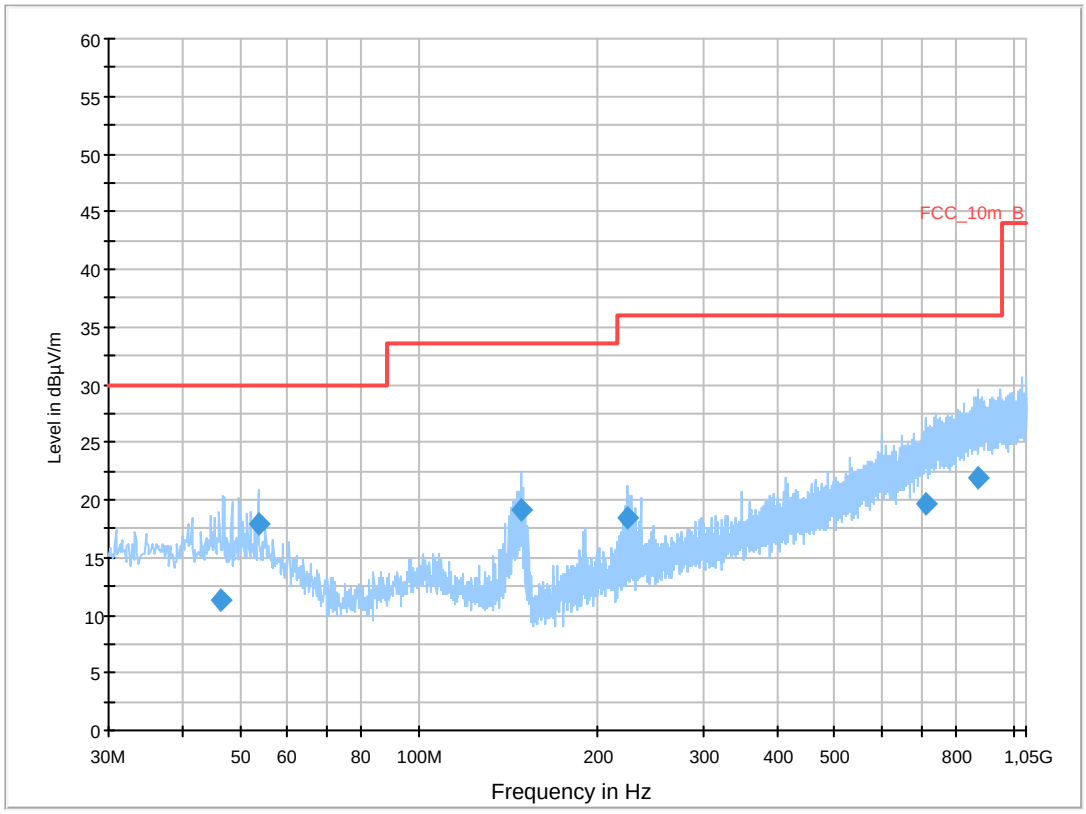
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan tx n-mode HT20 5600 MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

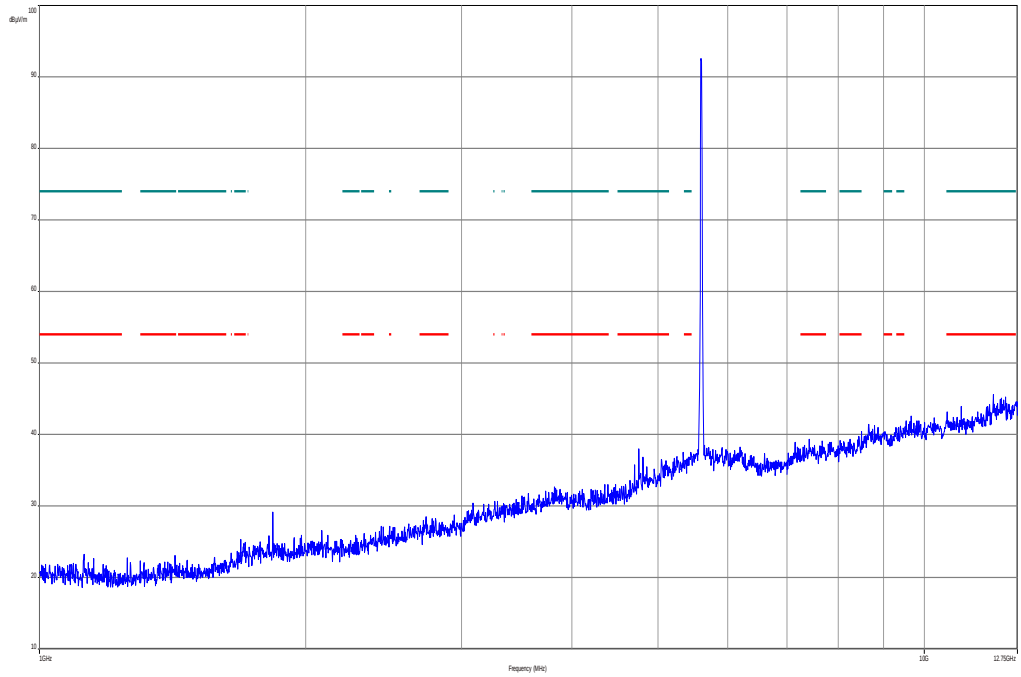
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



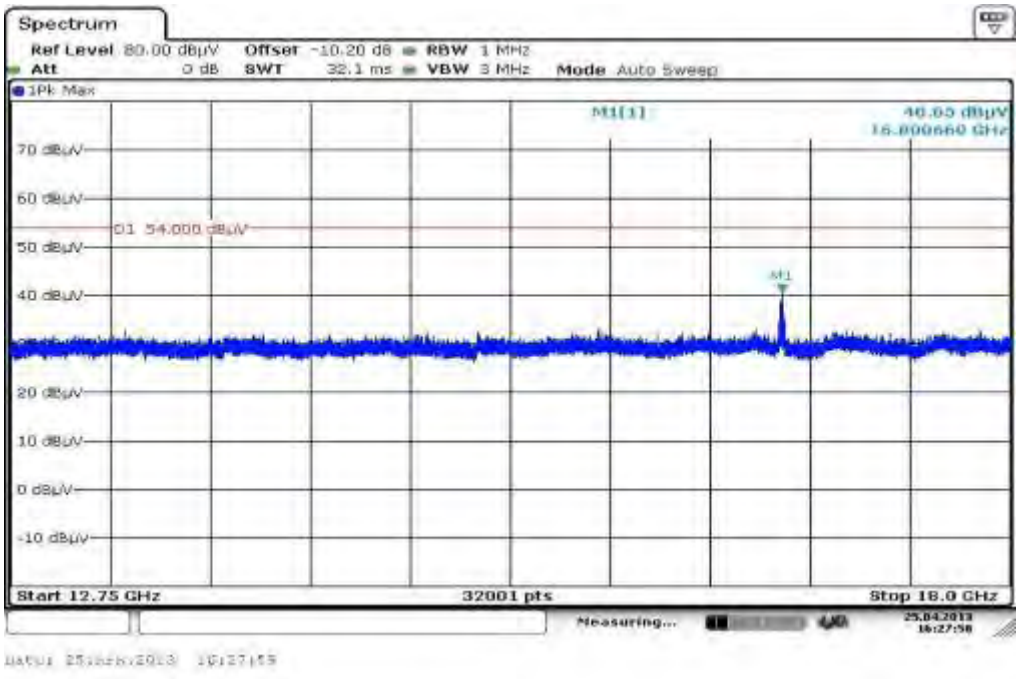
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
46.512450	11.4	1000.0	120.000	98.0	V	0.0	13.3	18.6	30.0	
53.616450	18.0	1000.0	120.000	111.0	V	-1.0	13.0	12.0	30.0	
148.075200	19.1	1000.0	120.000	170.0	V	10.0	8.9	14.4	33.5	
224.306100	18.4	1000.0	120.000	121.0	V	100.0	12.5	17.6	36.0	
714.268200	19.6	1000.0	120.000	121.0	V	-5.0	22.8	16.4	36.0	
873.534900	21.8	1000.0	120.000	98.0	H	0.0	24.9	14.2	36.0	

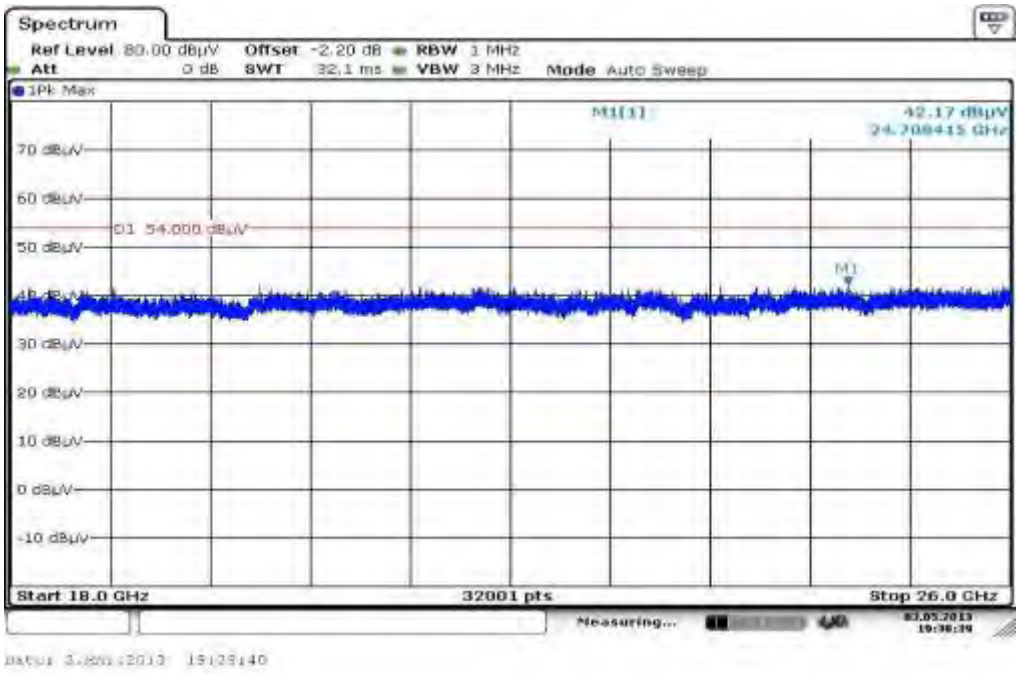
Plot 27: 1 GHz to 12.75 GHz, 5600 MHz, vertical & horizontal polarization



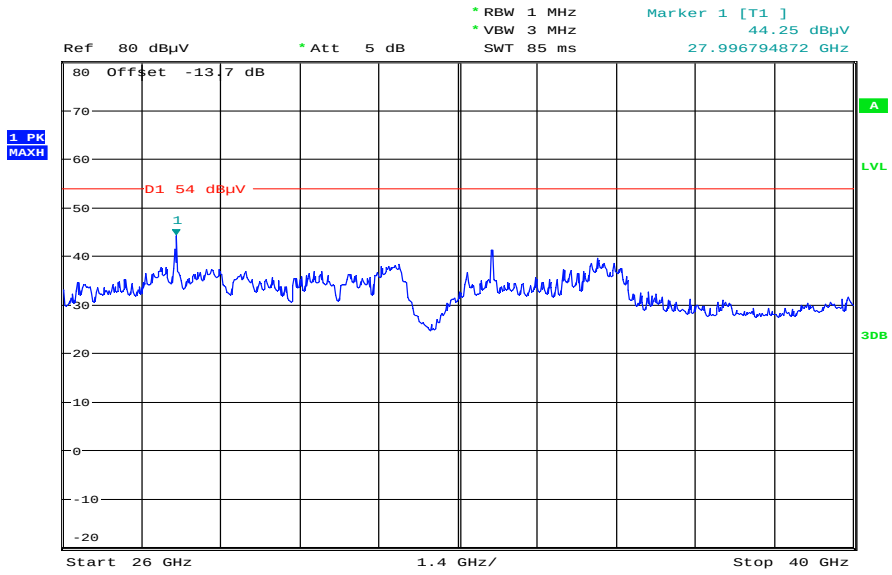
Plot 28: 12 GHz to 18 GHz, 5600 MHz, vertical & horizontal polarization



Plot 29: 18 GHz to 26 GHz, 5600 MHz, vertical & horizontal polarization



Plot 30: 26 GHz to 40 GHz, 5600 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:20:08

Plot 31: 30 MHz to 1 GHz, 5700 MHz, vertical & horizontal polarization

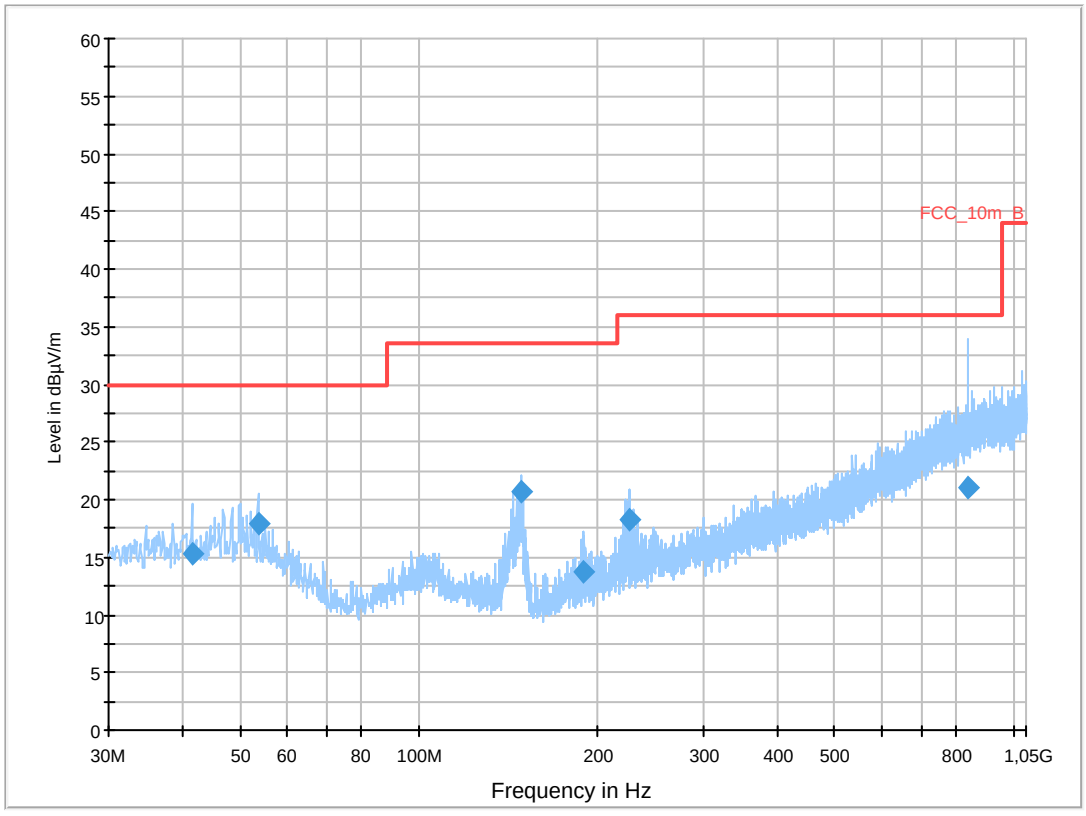
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan tx n-mode HT20 5700 MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

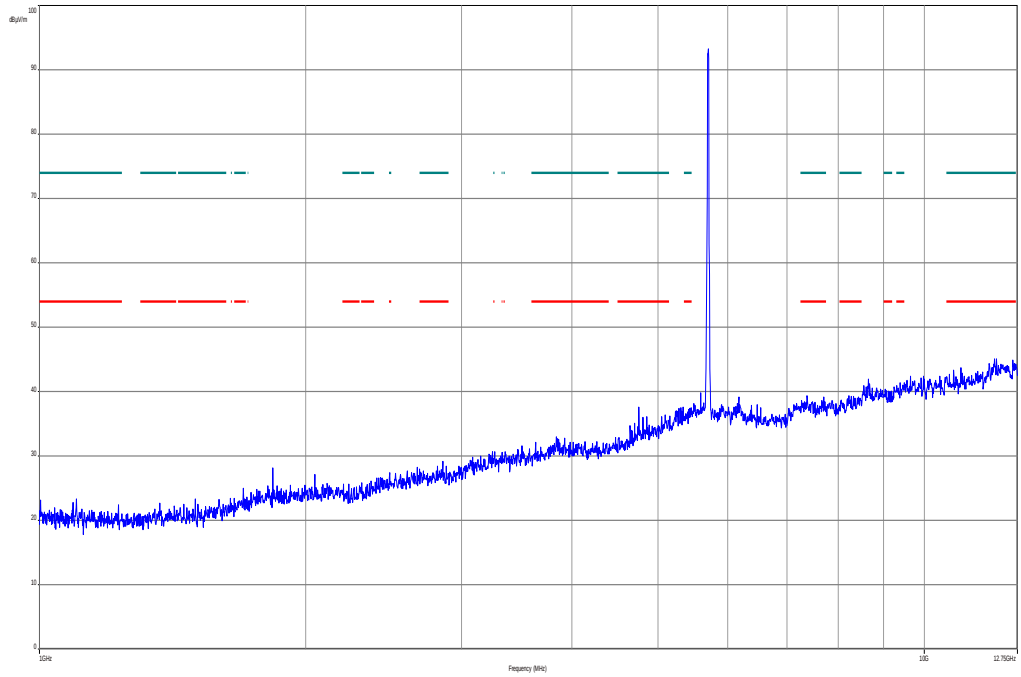
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



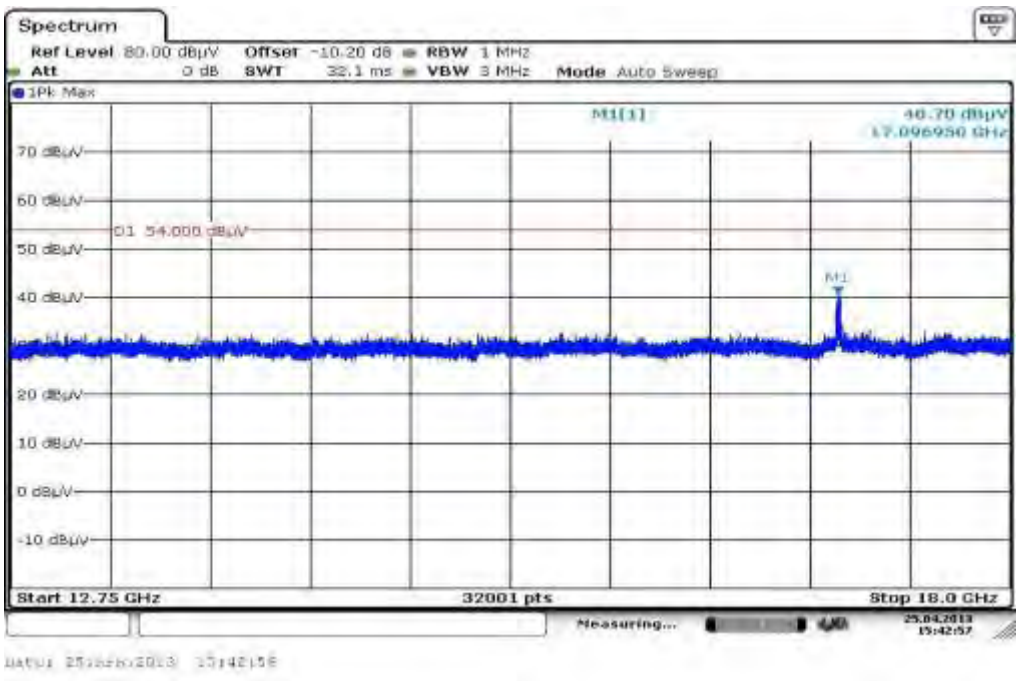
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
41.538750	15.4	1000.0	120.000	98.0	V	100.0	13.4	14.6	30.0	
53.607000	17.9	1000.0	120.000	120.0	V	92.0	13.0	12.1	30.0	
148.041750	20.8	1000.0	120.000	111.0	V	180.0	8.9	12.7	33.5	
188.784150	13.8	1000.0	120.000	170.0	V	272.0	11.0	19.7	33.5	
225.074850	18.3	1000.0	120.000	98.0	V	261.0	12.6	17.7	36.0	
836.746500	21.0	1000.0	120.000	132.0	V	280.0	24.4	15.0	36.0	

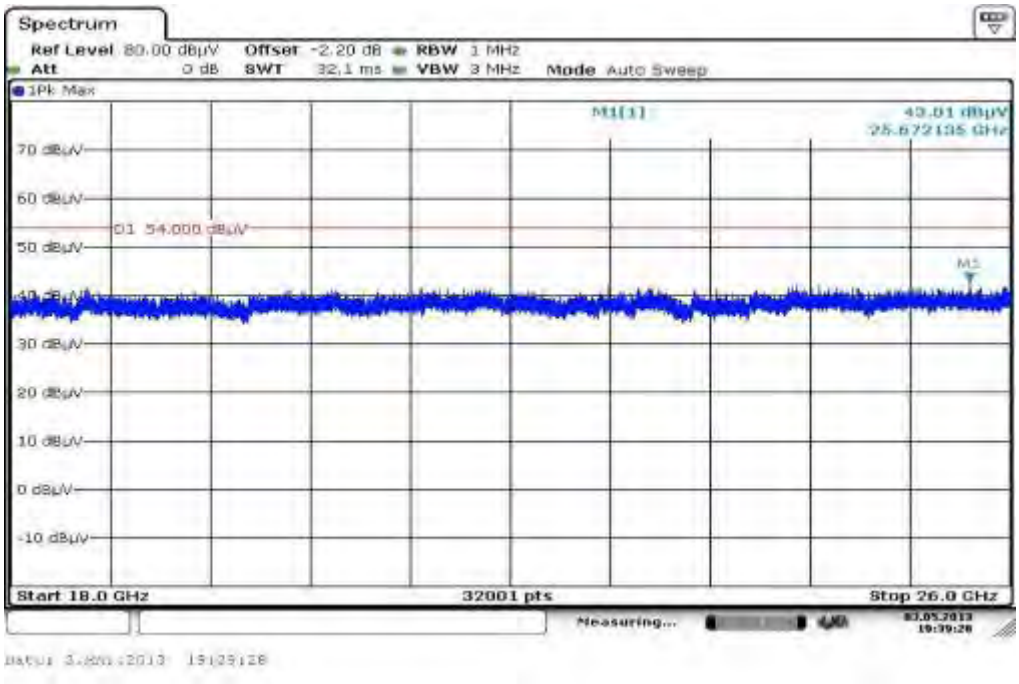
Plot 32: 1 GHz to 12.75 GHz, 5700 MHz, vertical & horizontal polarization



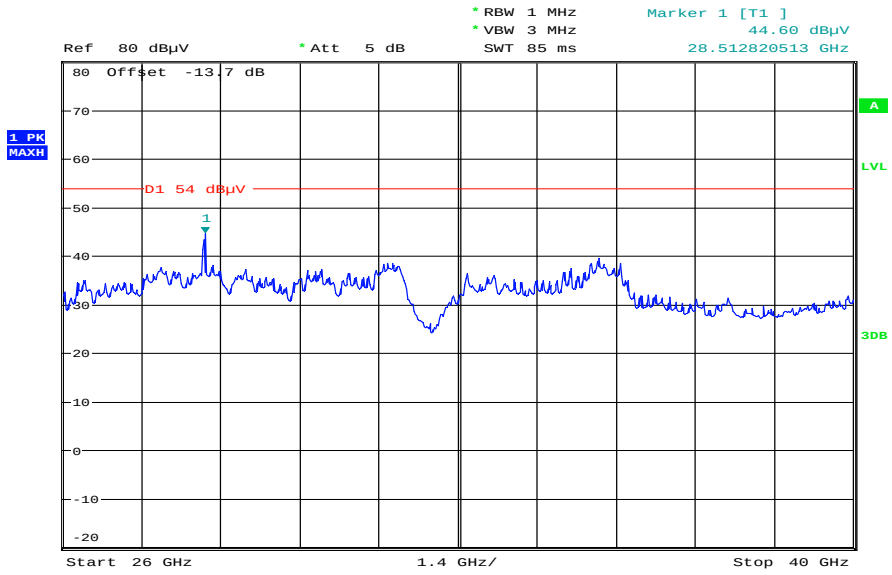
Plot 33: 12 GHz to 18 GHz, 5700 MHz, vertical & horizontal polarization



Plot 34: 18 GHz to 26 GHz, 5700 MHz, vertical & horizontal polarization



Plot 35: 26 GHz to 40 GHz, 5700 MHz, vertical & horizontal polarization



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Plots: OFDM / n – mode HT40

Plot 1: 30 MHz to 1 GHz, 5190 MHz, vertical & horizontal polarization

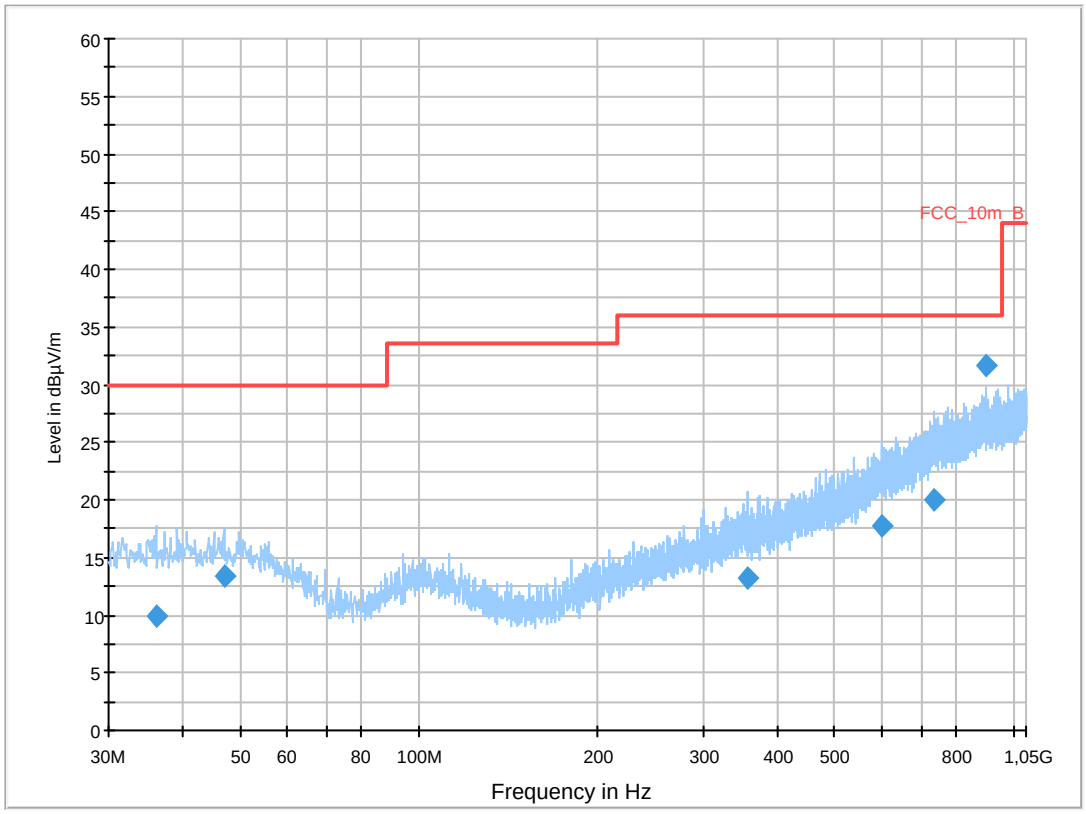
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval 2
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT 40 tx @5190MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

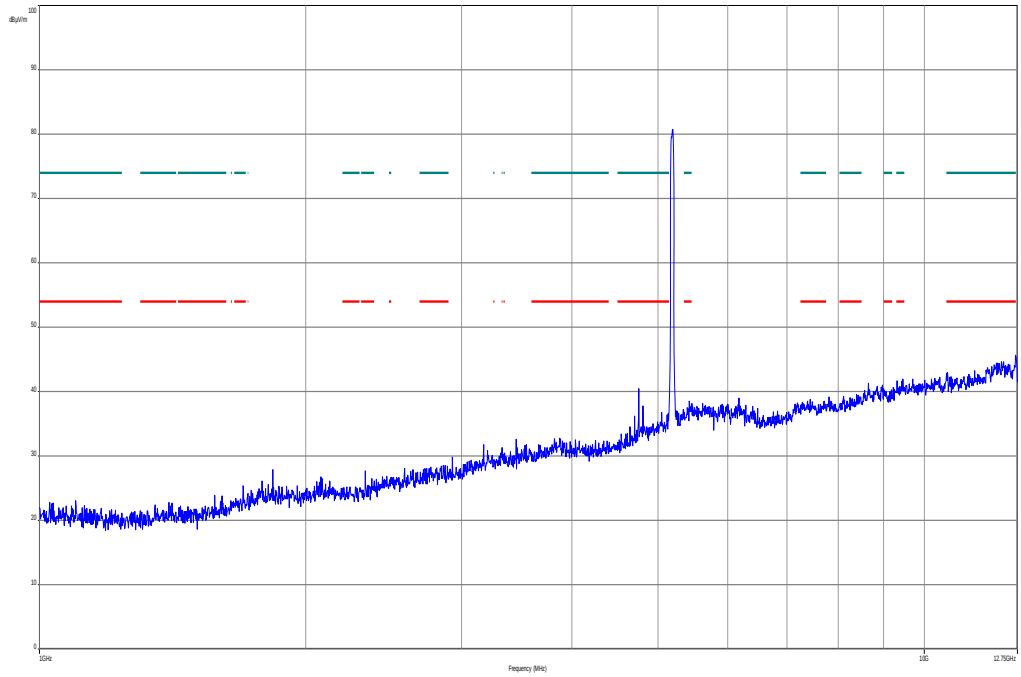
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



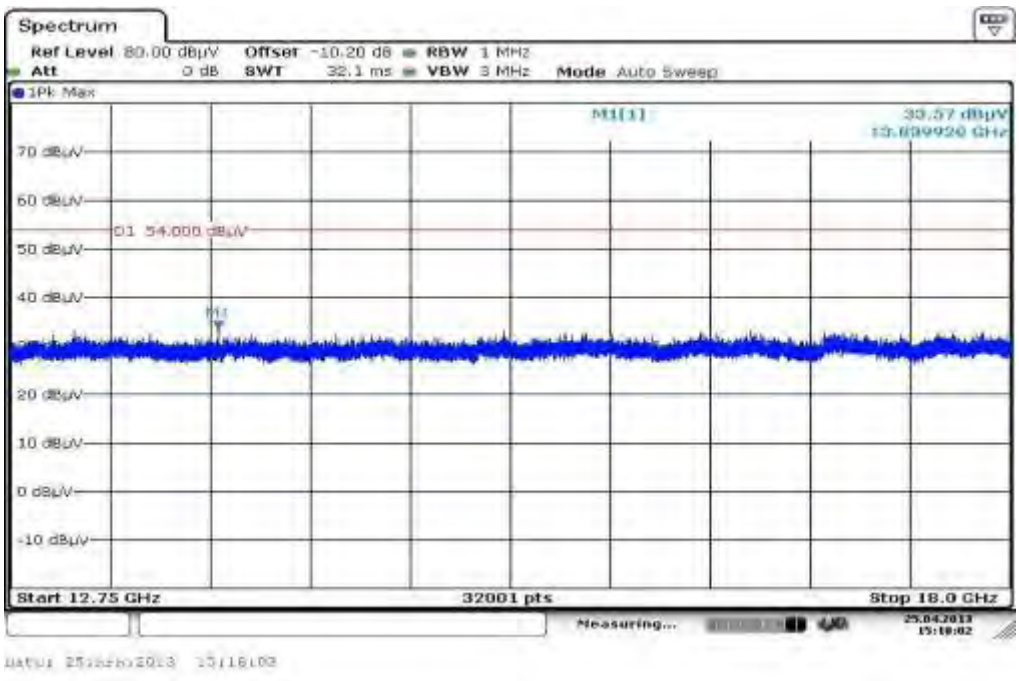
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
36.263250	9.8	1000.0	120.000	132.0	V	175.0	13.1	20.2	30.0	
46.977000	13.4	1000.0	120.000	104.0	V	10.0	13.3	16.6	30.0	
357.922650	13.3	1000.0	120.000	170.0	V	273.0	16.2	22.7	36.0	
599.929050	17.8	1000.0	120.000	105.0	V	100.0	20.8	18.2	36.0	
735.087300	20.1	1000.0	120.000	170.0	V	81.0	23.3	15.9	36.0	
897.426000	31.7	1000.0	120.000	170.0	V	90.0	25.2	4.3	36.0	

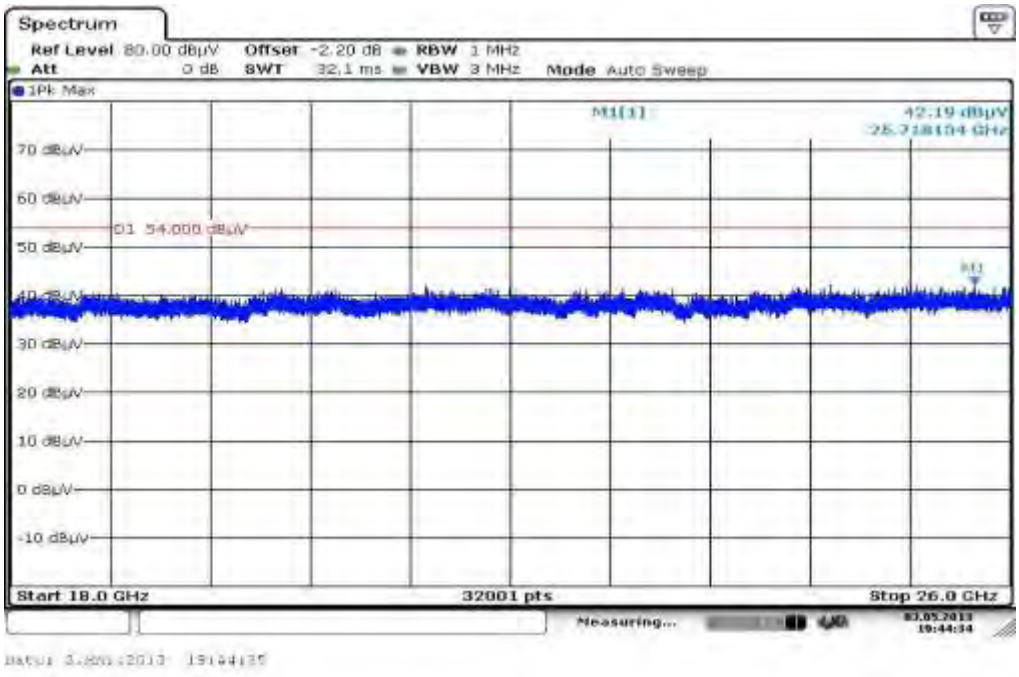
Plot 2: 1 GHz to 12.75 GHz, 5190 MHz, vertical & horizontal polarization



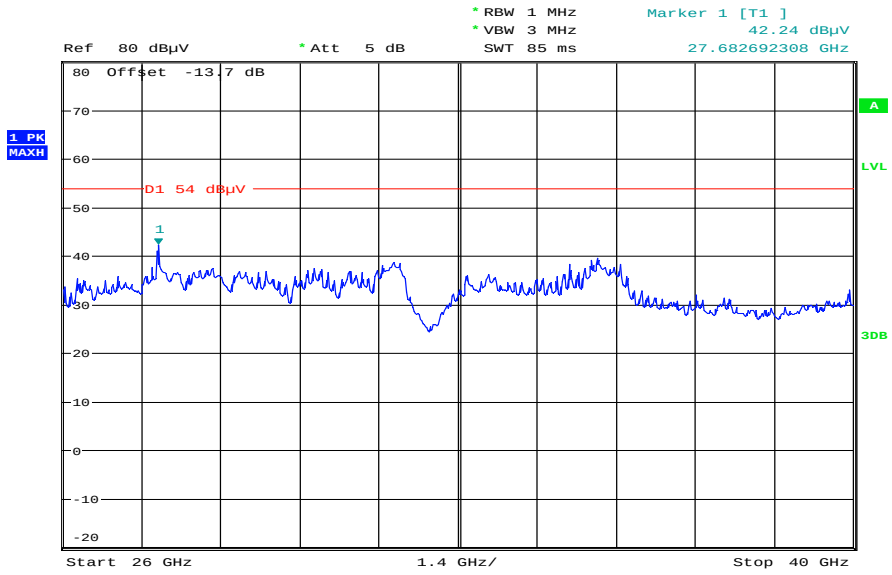
Plot 3: 12 GHz to 18 GHz, 5190 MHz, vertical & horizontal polarization



Plot 4: 18 GHz to 26 GHz, 5190 MHz, vertical & horizontal polarization



Plot 5: 26 GHz to 40 GHz, 5190 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:26:24

Plot 6: 30 MHz to 1 GHz, 5230 MHz, vertical & horizontal polarization

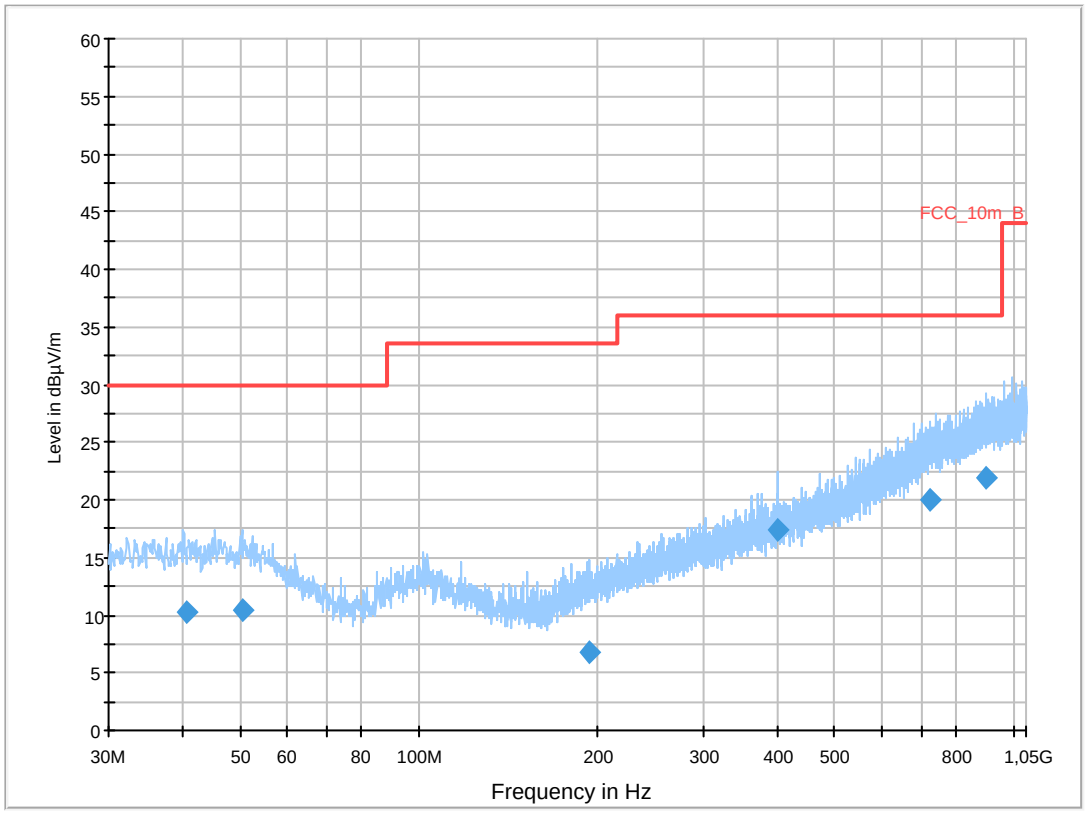
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval 2
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT 40 tx @5230MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

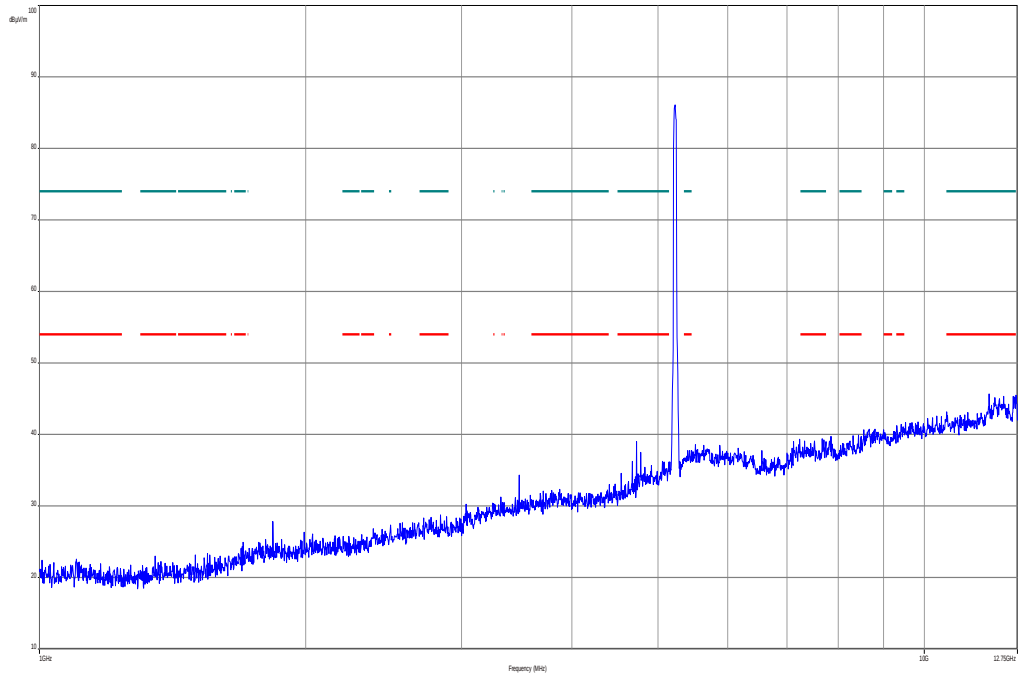
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



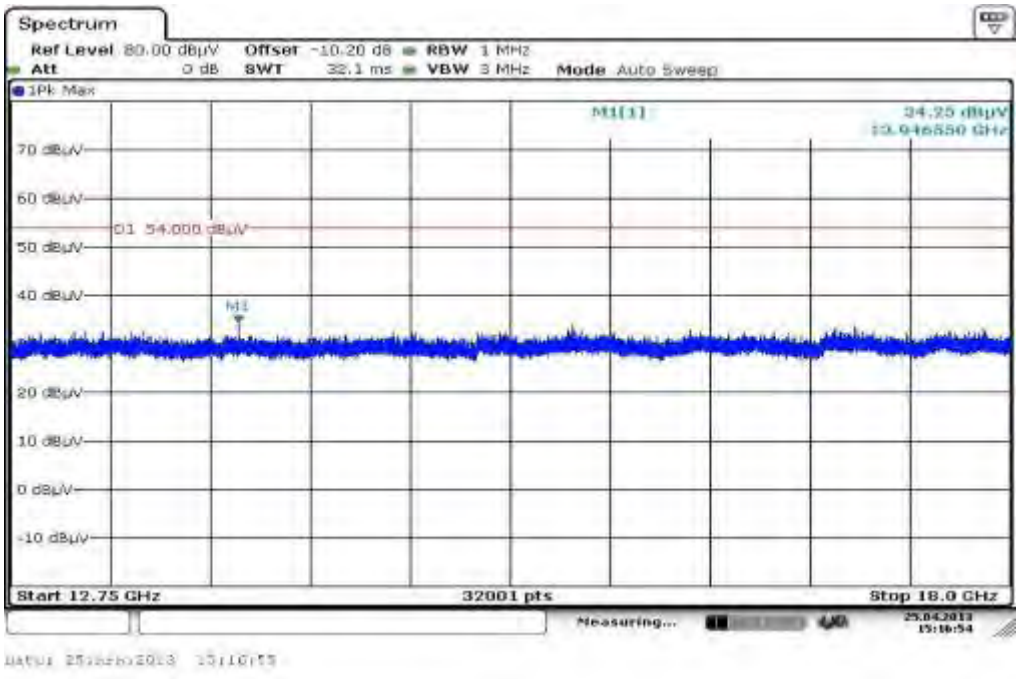
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
40.655550	10.2	1000.0	120.000	170.0	V	-5.0	13.4	19.8	30.0	
50.530800	10.4	1000.0	120.000	123.0	V	182.0	13.3	19.6	30.0	
192.966600	6.8	1000.0	120.000	170.0	V	270.0	11.3	26.7	33.5	
400.002150	17.3	1000.0	120.000	120.0	V	280.0	16.9	18.7	36.0	
720.790050	20.0	1000.0	120.000	170.0	H	-10.0	23.0	16.0	36.0	
897.484350	21.8	1000.0	120.000	144.0	V	-5.0	25.2	14.2	36.0	

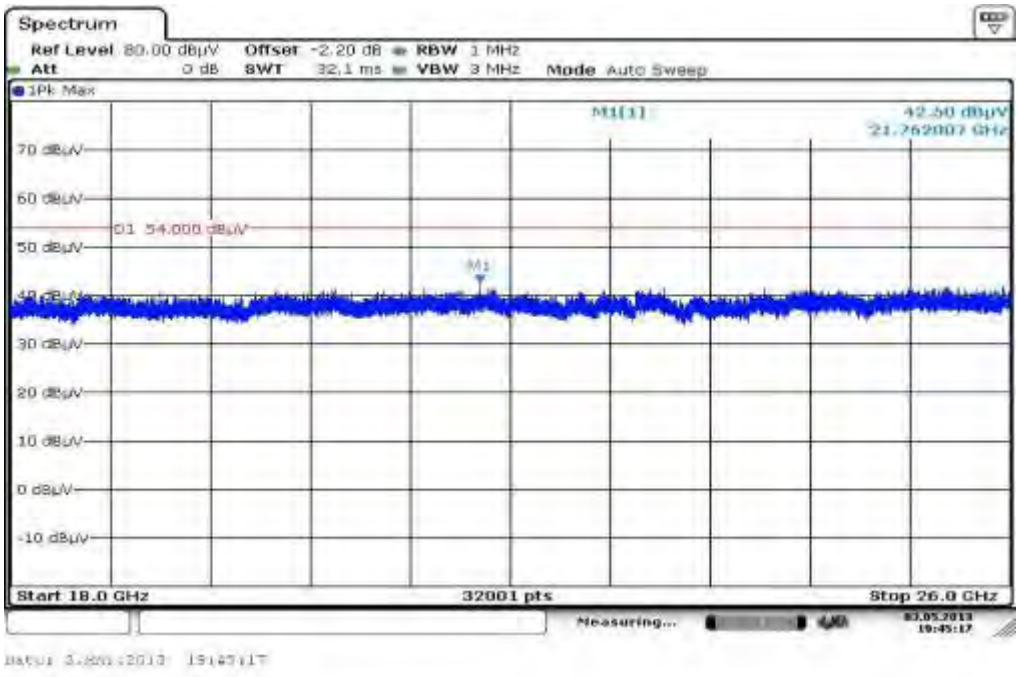
Plot 7: 1 GHz to 12.75 GHz, 5230 MHz, vertical & horizontal polarization



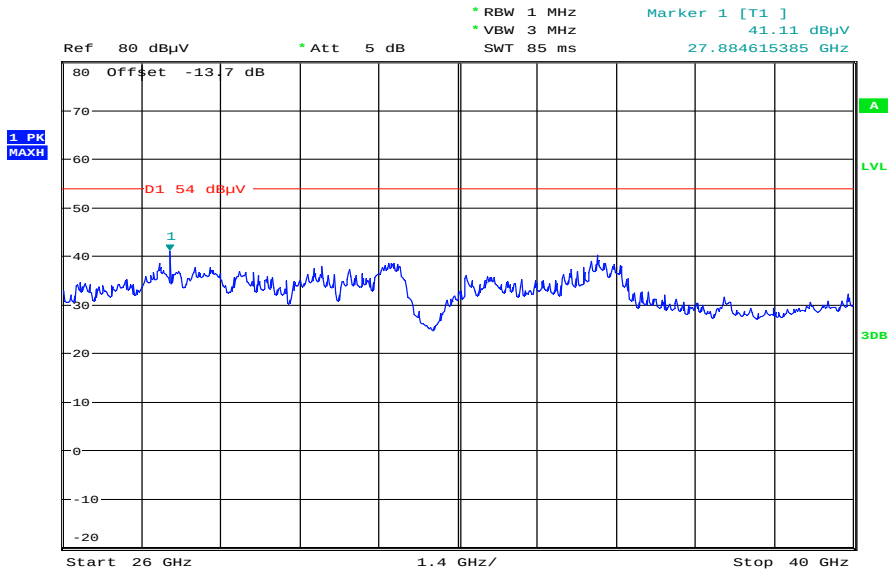
Plot 8: 12 GHz to 18 GHz, 5230 MHz, vertical & horizontal polarization



Plot 9: 18 GHz to 26 GHz, 5230 MHz, vertical & horizontal polarization



Plot 10: 26 GHz to 40 GHz, 5230 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:27:23

Plot 11: 30 MHz to 1 GHz, 5270 MHz, vertical & horizontal polarization

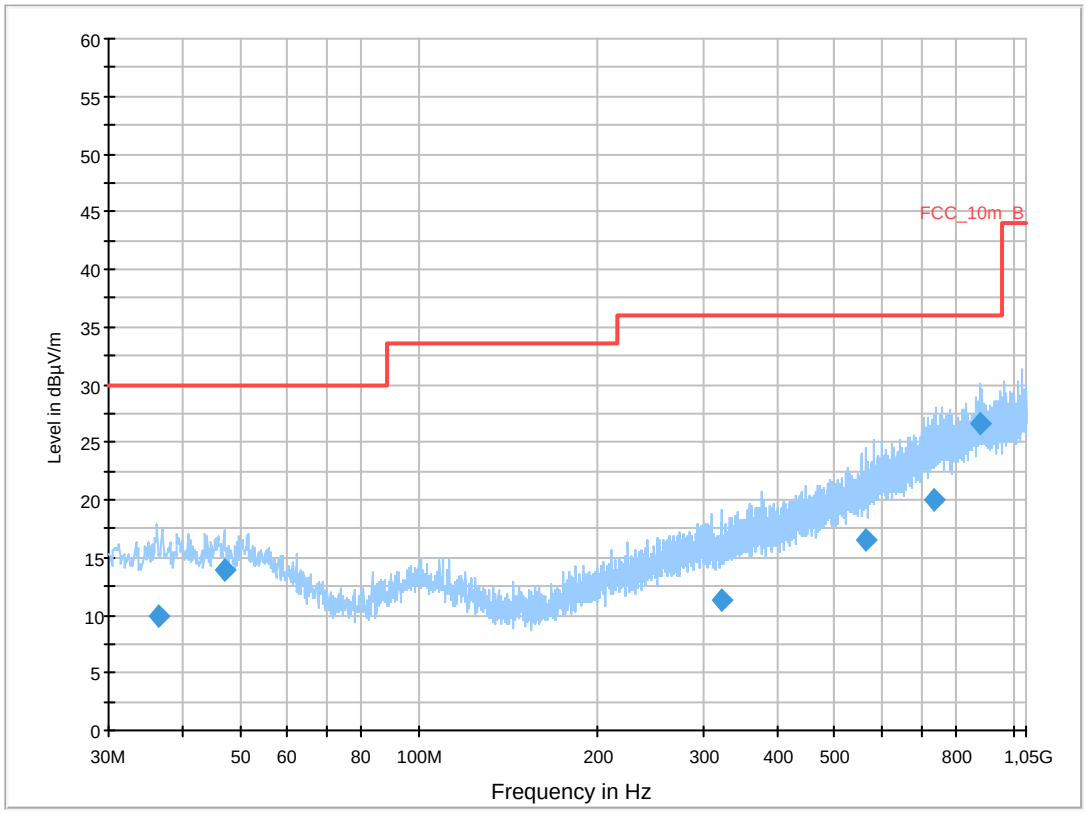
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval 2
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT 40 tx @5270MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

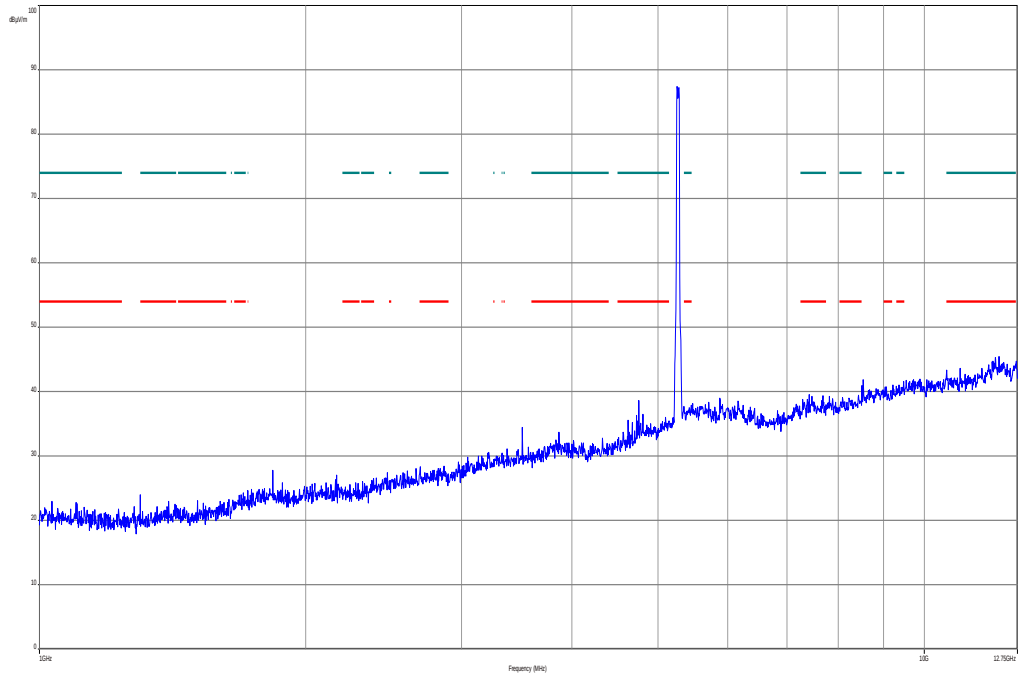
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



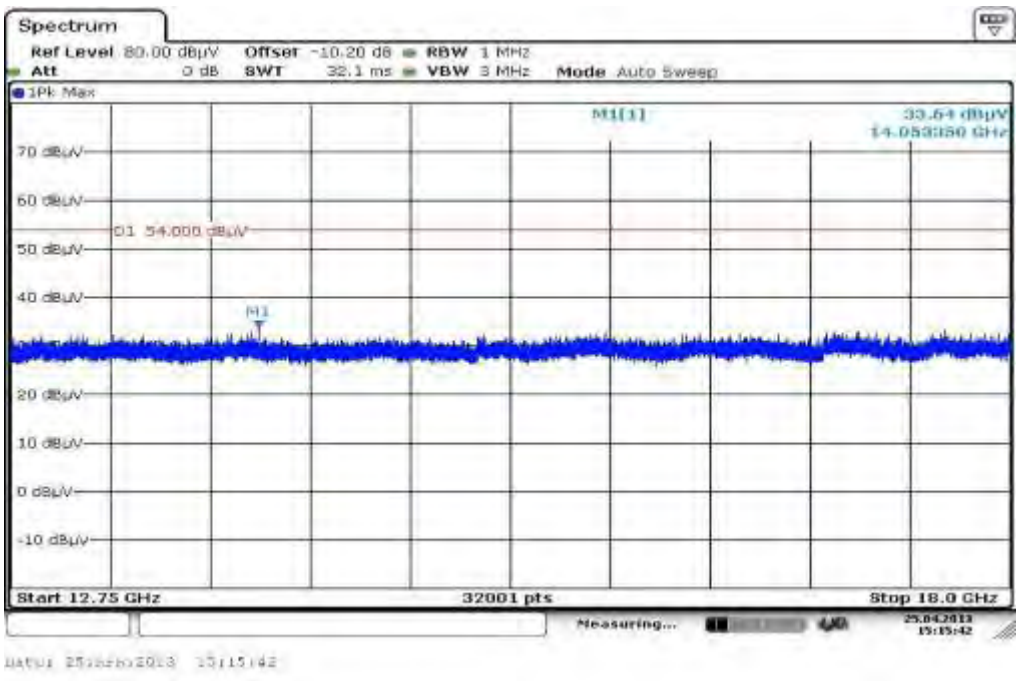
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
36.284850	9.8	1000.0	120.000	104.0	V	100.0	13.1	20.2	30.0	
46.984050	13.9	1000.0	120.000	98.0	V	265.0	13.3	16.1	30.0	
322.488000	11.3	1000.0	120.000	170.0	V	178.0	15.2	24.7	36.0	
564.050100	16.4	1000.0	120.000	120.0	V	-10.0	19.8	19.6	36.0	
733.368600	20.0	1000.0	120.000	170.0	V	280.0	23.3	16.0	36.0	
880.158900	26.6	1000.0	120.000	170.0	V	-9.0	24.9	9.4	36.0	

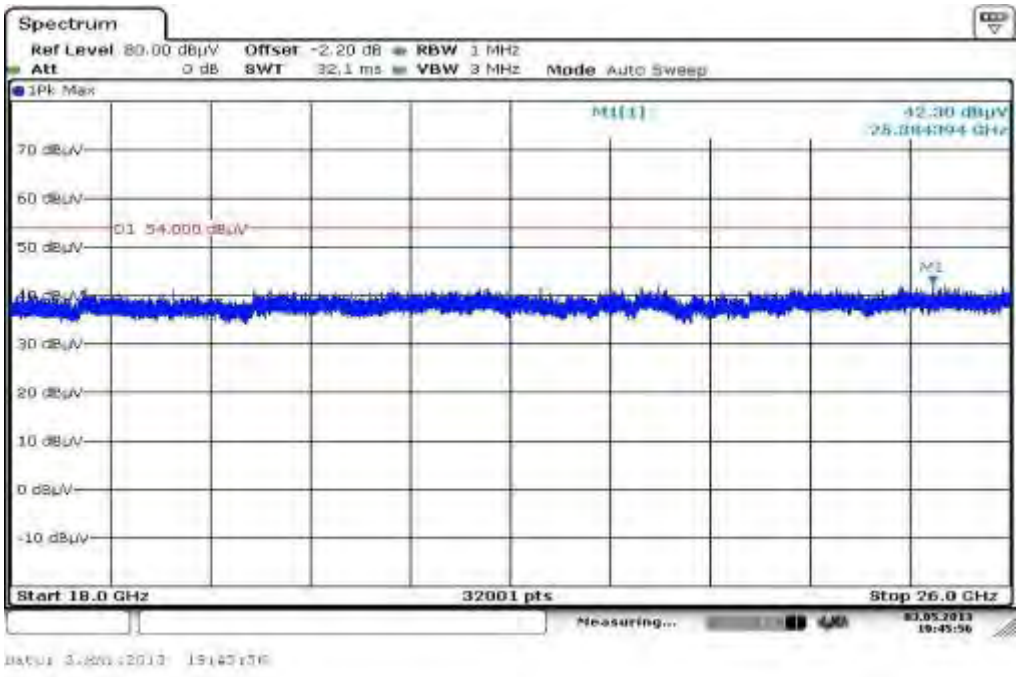
Plot 12: 1 GHz to 12.75 GHz, 5270 MHz, vertical & horizontal polarization



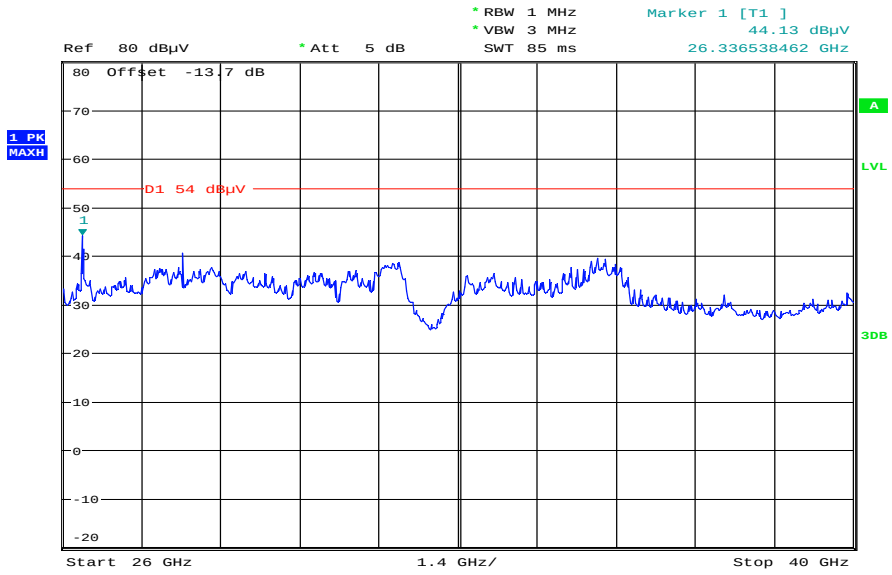
Plot 13: 12 GHz to 18 GHz, 5270 MHz, vertical & horizontal polarization



Plot 14: 18 GHz to 26 GHz, 5270 MHz, vertical & horizontal polarization



Plot 15: 26 GHz to 40 GHz, 5270 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:28:35

Plot 16: 30 MHz to 1 GHz, 5310 MHz, vertical & horizontal polarization

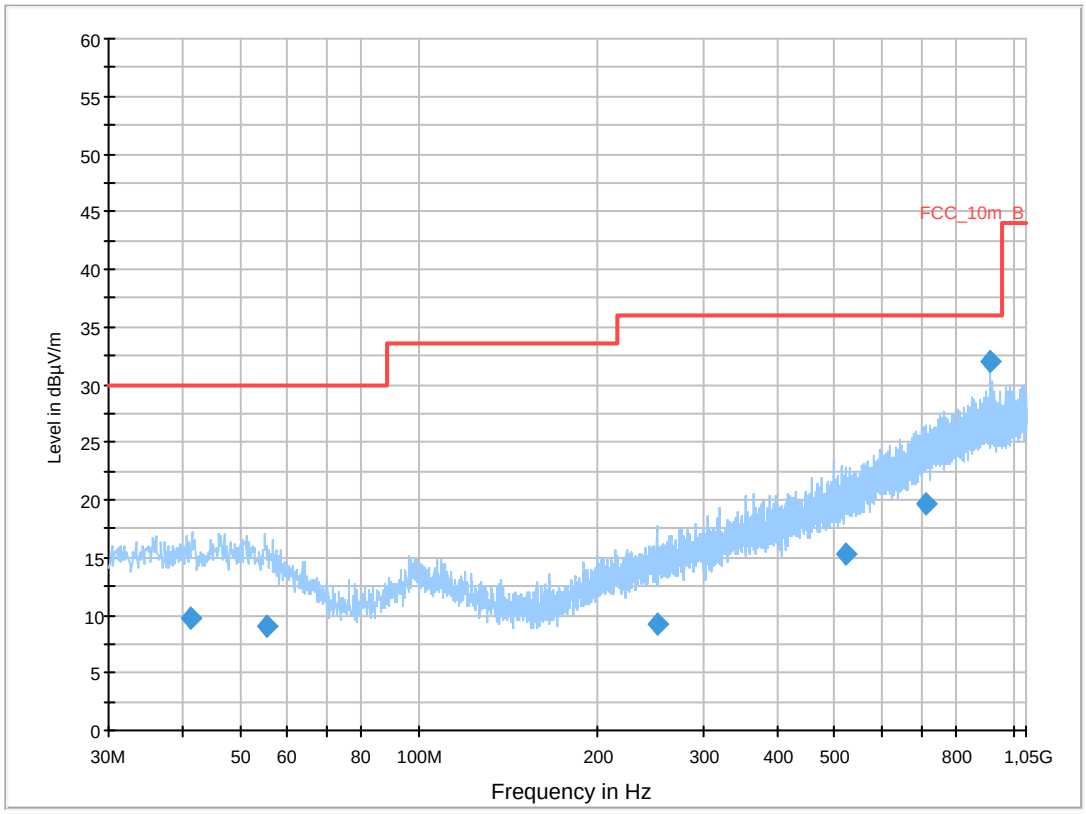
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval 2
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT 40 tx @5310MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

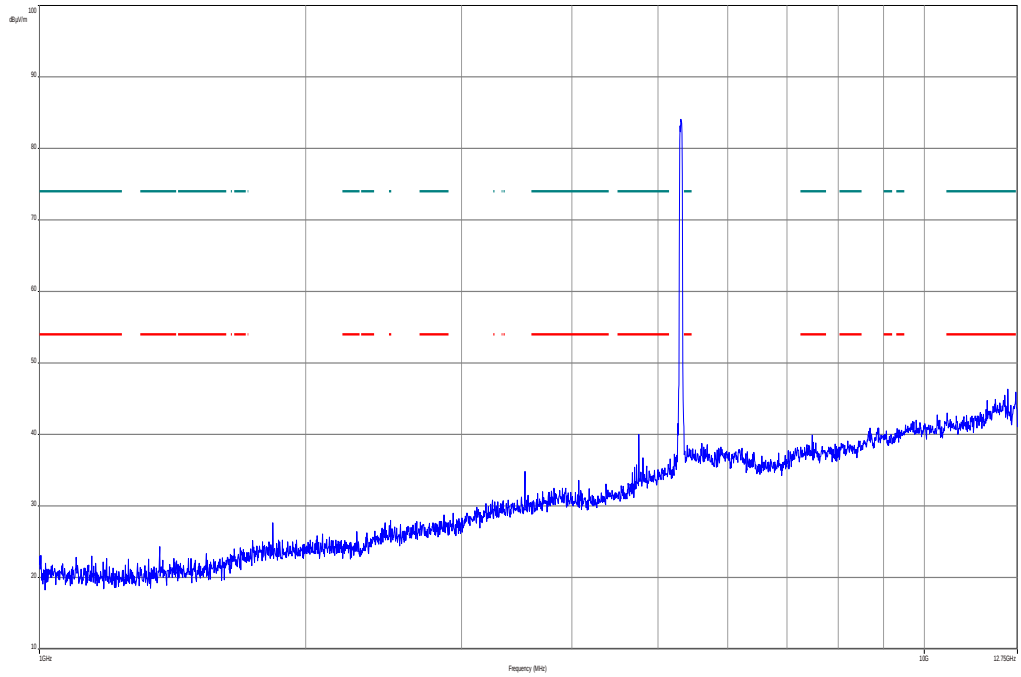
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



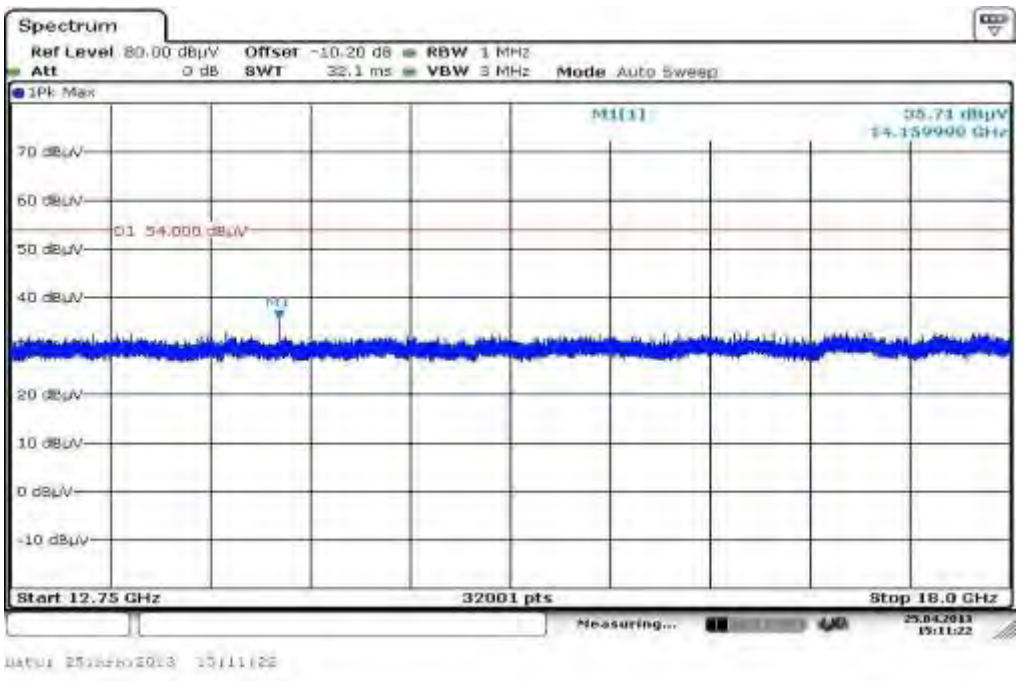
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
41.292000	9.8	1000.0	120.000	170.0	V	100.0	13.4	20.2	30.0	
55.437450	9.1	1000.0	120.000	120.0	V	280.0	12.8	20.9	30.0	
251.367600	9.1	1000.0	120.000	170.0	V	272.0	13.3	26.9	36.0	
521.708550	15.3	1000.0	120.000	170.0	V	-5.0	19.0	20.7	36.0	
712.438950	19.6	1000.0	120.000	170.0	V	10.0	22.8	16.4	36.0	
914.779050	32.0	1000.0	120.000	120.0	H	80.0	25.2	4.0	36.0	

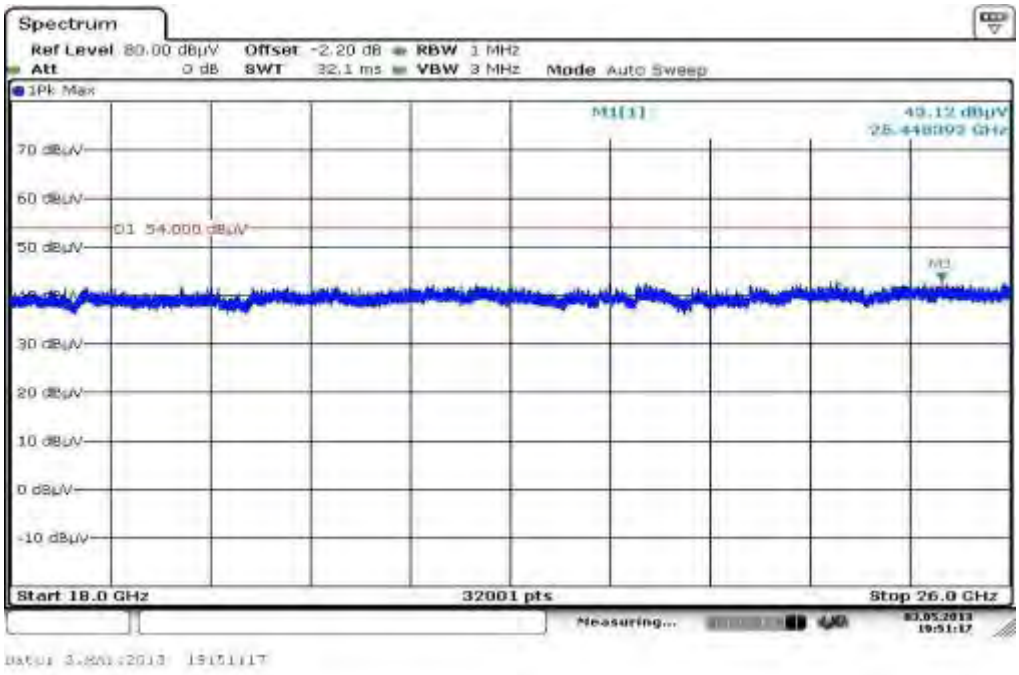
Plot 17: 1 GHz to 12.75 GHz, 5310 MHz, vertical & horizontal polarization



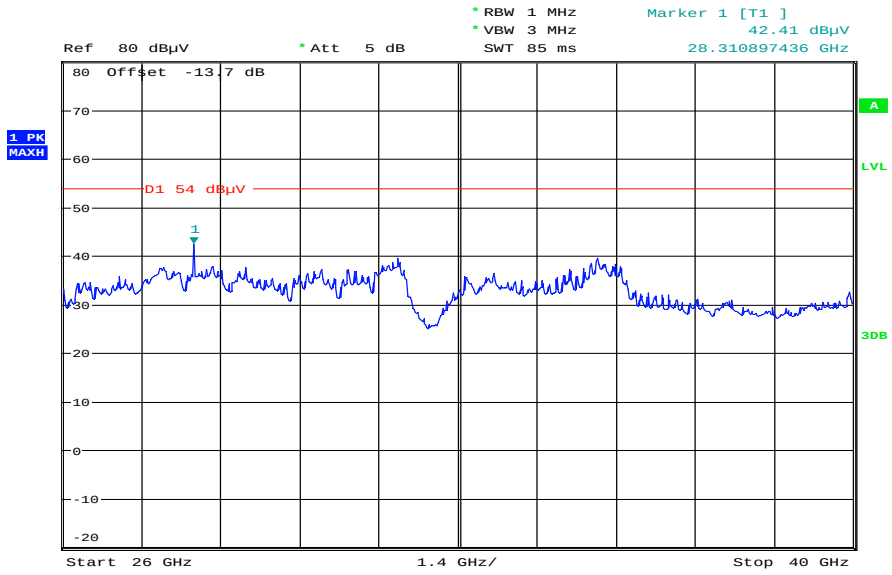
Plot 18: 12 GHz to 18 GHz, 5310 MHz, vertical & horizontal polarization



Plot 19: 18 GHz to 26 GHz, 5310 MHz, vertical & horizontal polarization



Plot 20: 26 GHz to 40 GHz, 5310 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:29:37

Plot 21: 30 MHz to 1 GHz, 5510 MHz, vertical & horizontal polarization

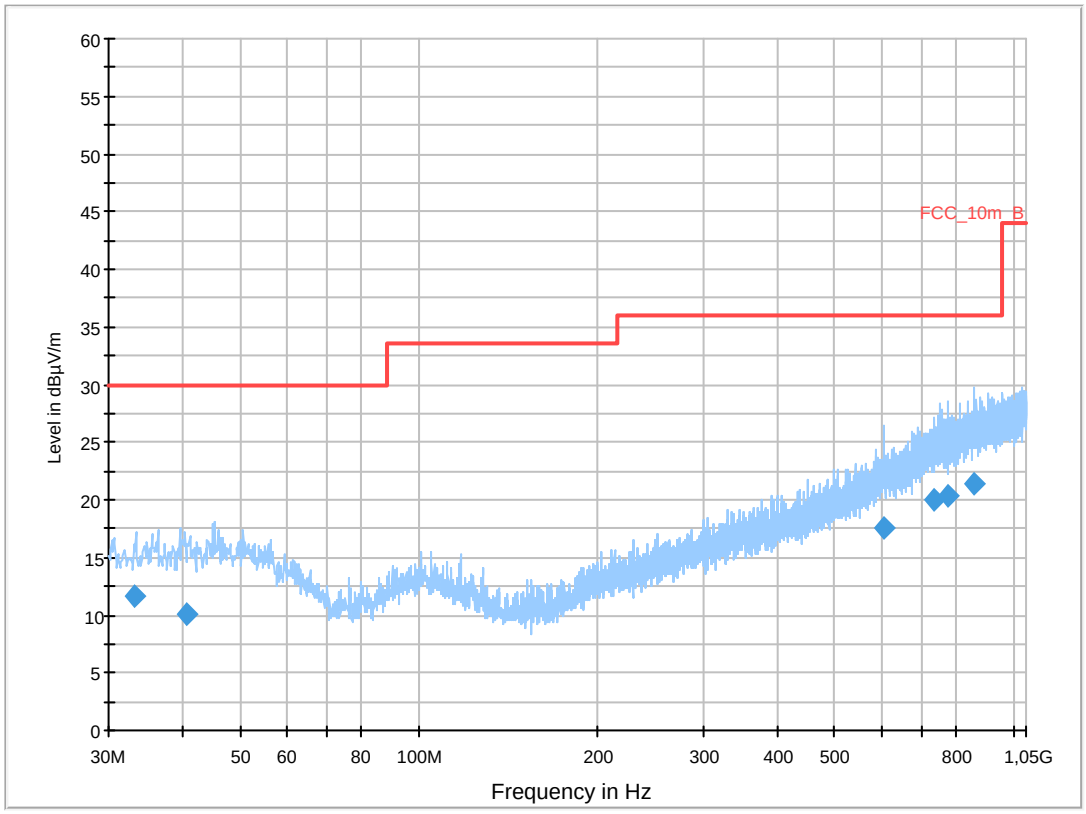
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval 2
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT 40 tx @5510MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

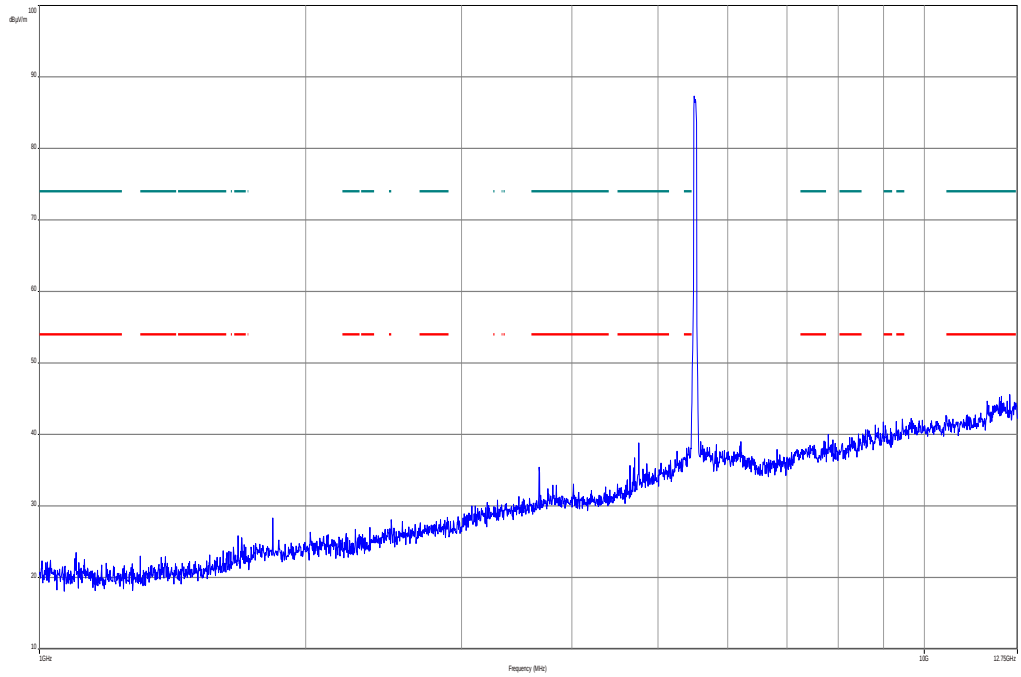
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



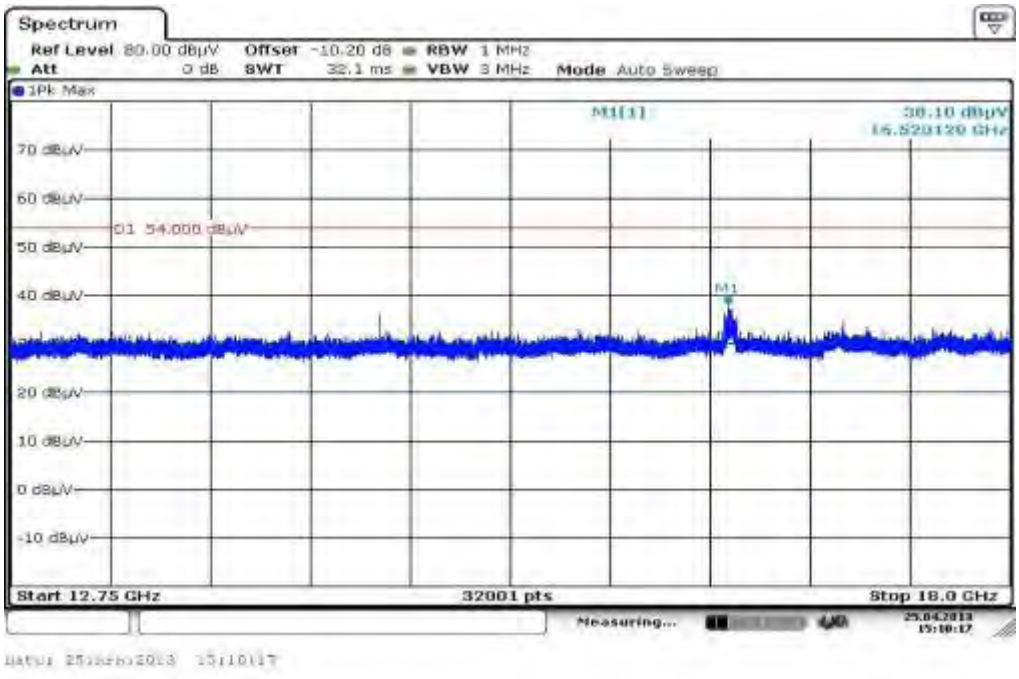
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
33.309150	11.7	1000.0	120.000	113.0	V	190.0	12.9	18.3	30.0	
40.538400	10.2	1000.0	120.000	170.0	V	182.0	13.4	19.8	30.0	
603.443850	17.5	1000.0	120.000	170.0	V	-3.0	20.8	18.5	36.0	
732.320400	20.0	1000.0	120.000	170.0	H	266.0	23.3	16.0	36.0	
774.009900	20.3	1000.0	120.000	170.0	V	-5.0	23.7	15.7	36.0	
858.673800	21.4	1000.0	120.000	170.0	H	100.0	24.7	14.6	36.0	

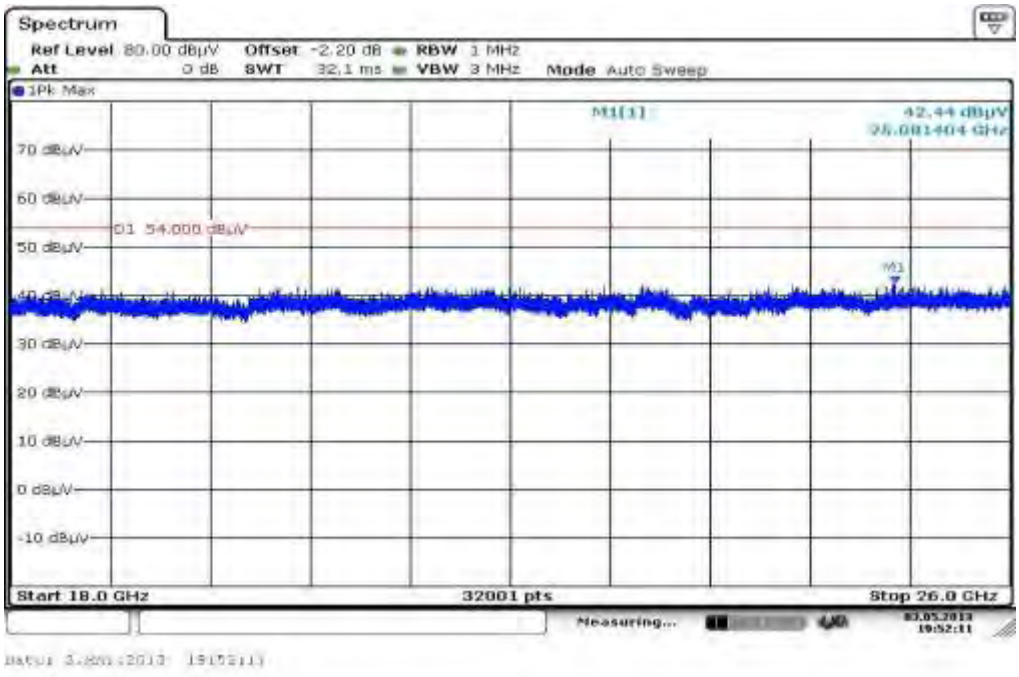
Plot 22: 1 GHz to 12.75 GHz, 5510 MHz, vertical & horizontal polarization



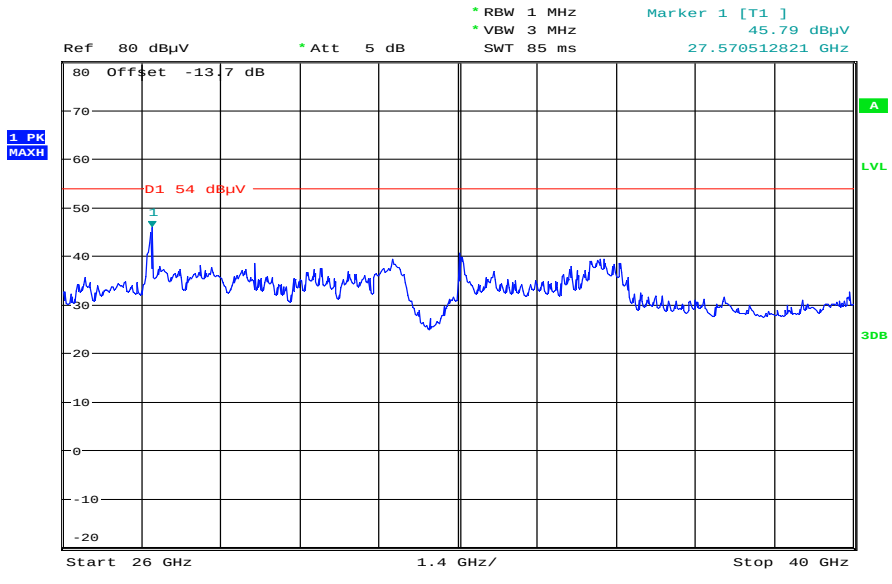
Plot 23: 12 GHz to 18 GHz, 5510 MHz, vertical & horizontal polarization



Plot 24: 18 GHz to 26 GHz, 5510 MHz, vertical & horizontal polarization



Plot 25: 26 GHz to 40 GHz, 5510 MHz, vertical & horizontal polarization



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Plot 26: 30 MHz to 1 GHz, 5590 MHz, vertical & horizontal polarization

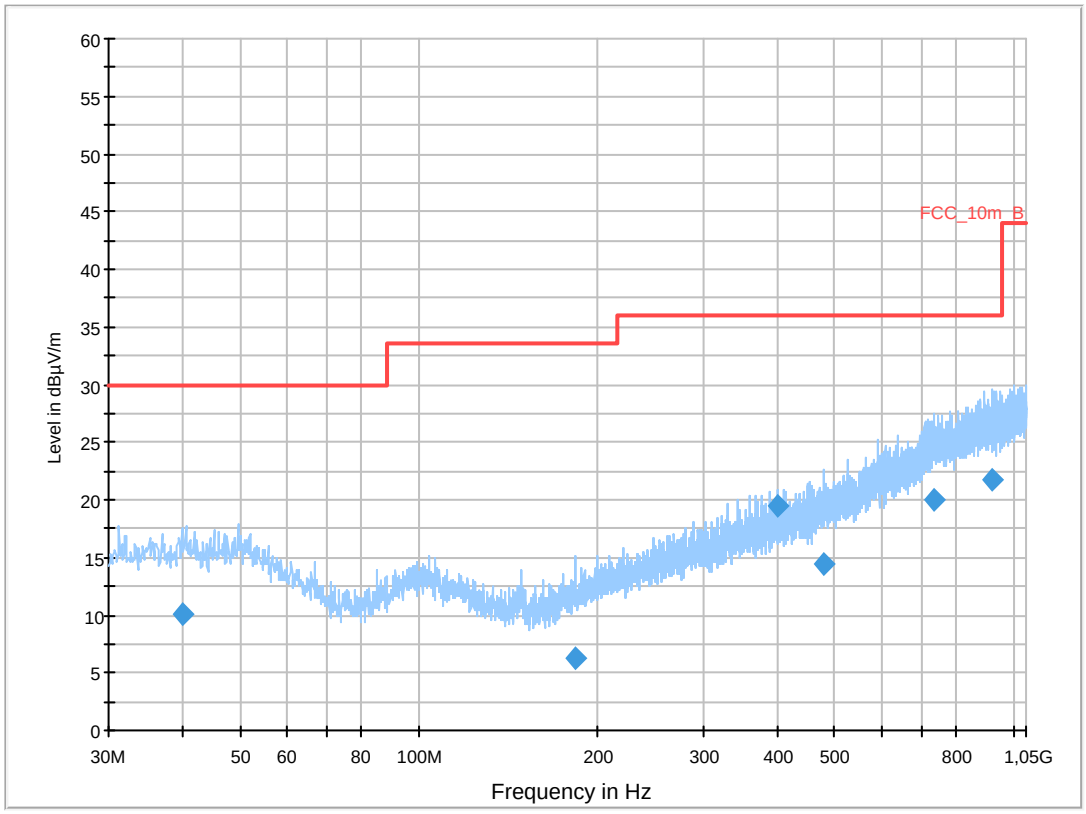
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval 2
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT 40 tx @5590MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

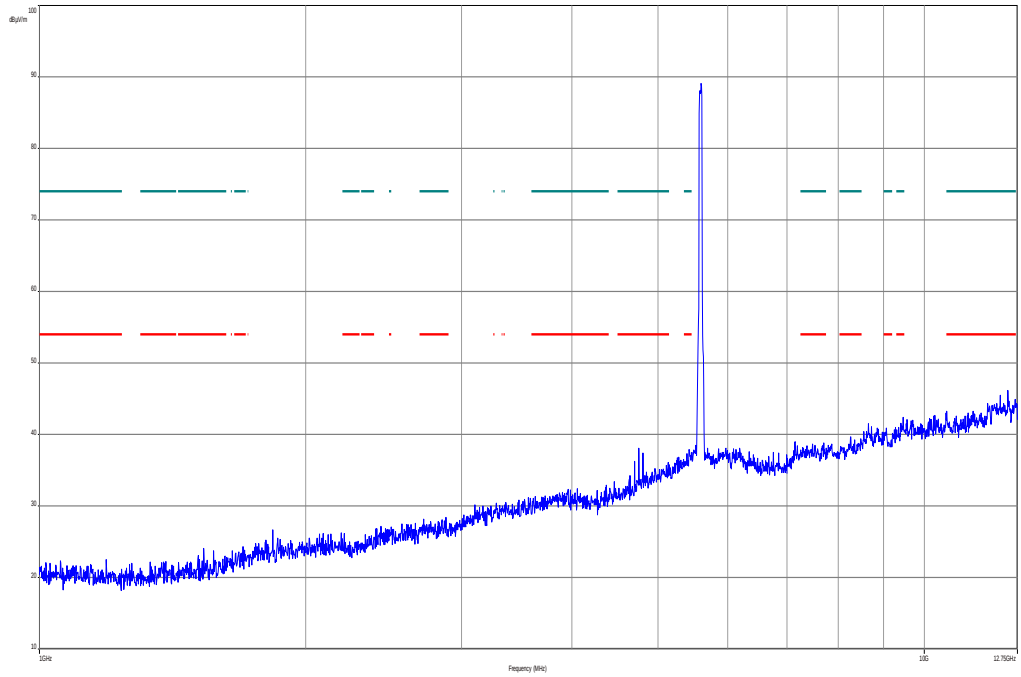
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



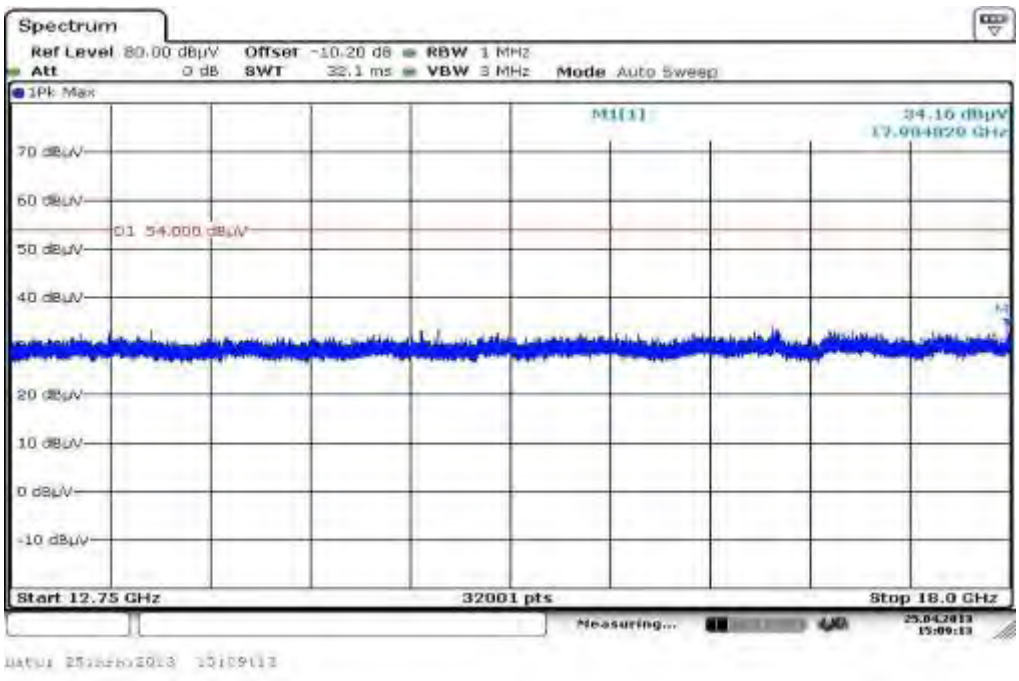
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
39.962250	10.0	1000.0	120.000	170.0	V	0.0	13.4	20.0	30.0	
182.919000	6.3	1000.0	120.000	170.0	V	92.0	10.6	27.2	33.5	
400.006650	19.5	1000.0	120.000	170.0	H	-9.0	16.9	16.5	36.0	
480.457200	14.4	1000.0	120.000	170.0	H	90.0	18.3	21.6	36.0	
734.394150	20.0	1000.0	120.000	111.0	V	280.0	23.3	16.0	36.0	
917.238150	21.7	1000.0	120.000	120.0	V	88.0	25.3	14.3	36.0	

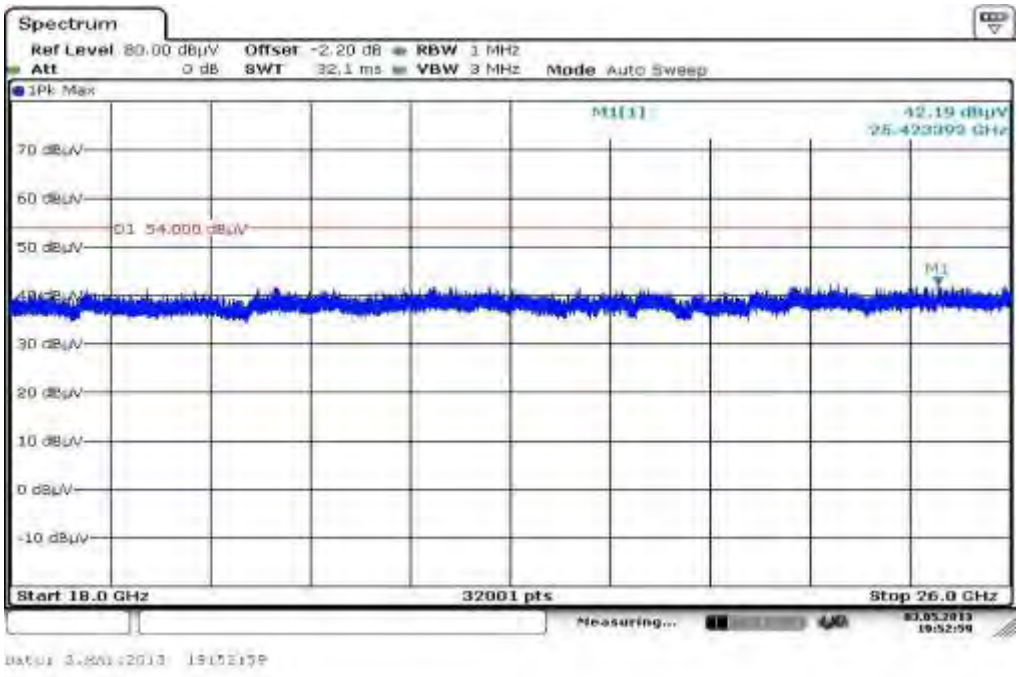
Plot 27: 1 GHz to 12.75 GHz, 5590 MHz, vertical & horizontal polarization



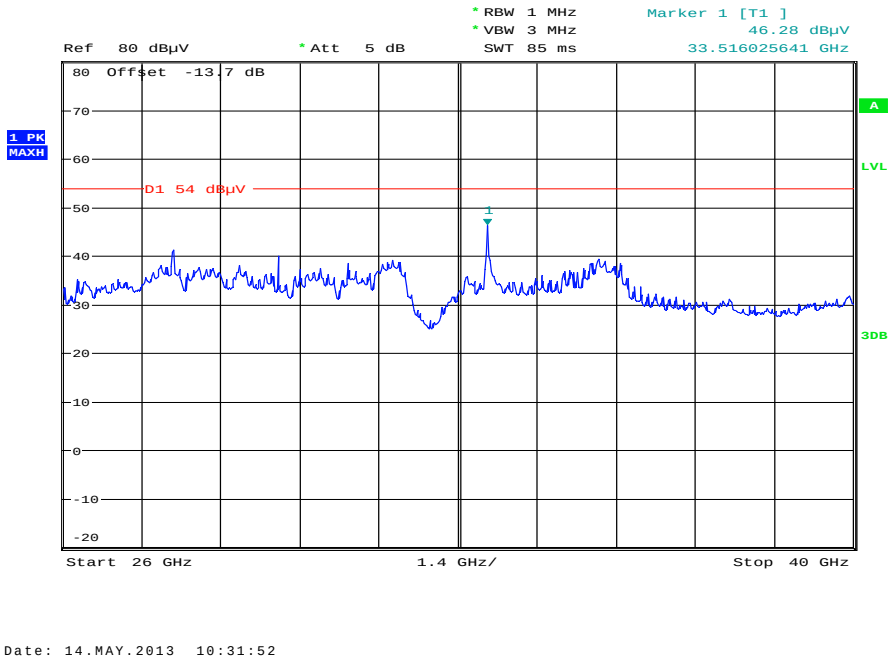
Plot 28: 12 GHz to 18 GHz, 5590 MHz, vertical & horizontal polarization



Plot 29: 18 GHz to 26 GHz, 5590 MHz, vertical & horizontal polarization



Plot 30: 26 GHz to 40 GHz, 5590 MHz, vertical & horizontal polarization



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Plot 31: 30 MHz to 1 GHz, 5670 MHz, vertical & horizontal polarization

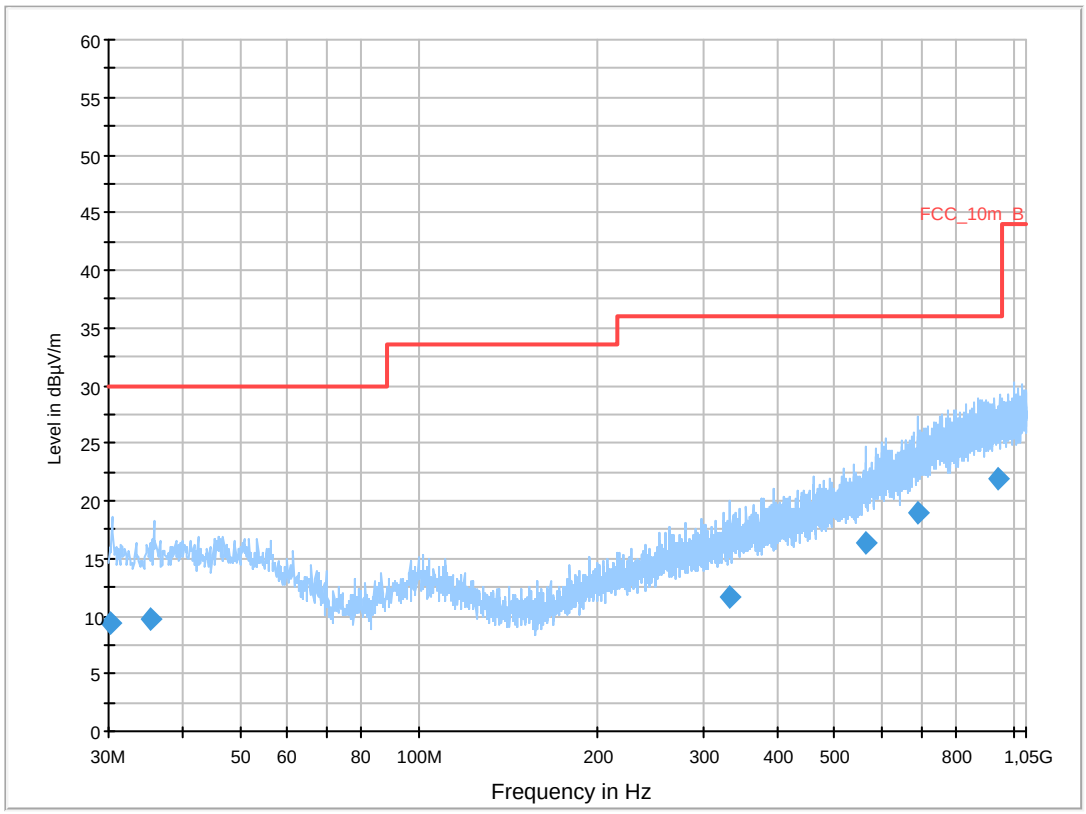
Common Information

EUT:	WLANBV2-A + antenna M3002-66494
Serial Number:	eval 2
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT 40 tx @5670MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

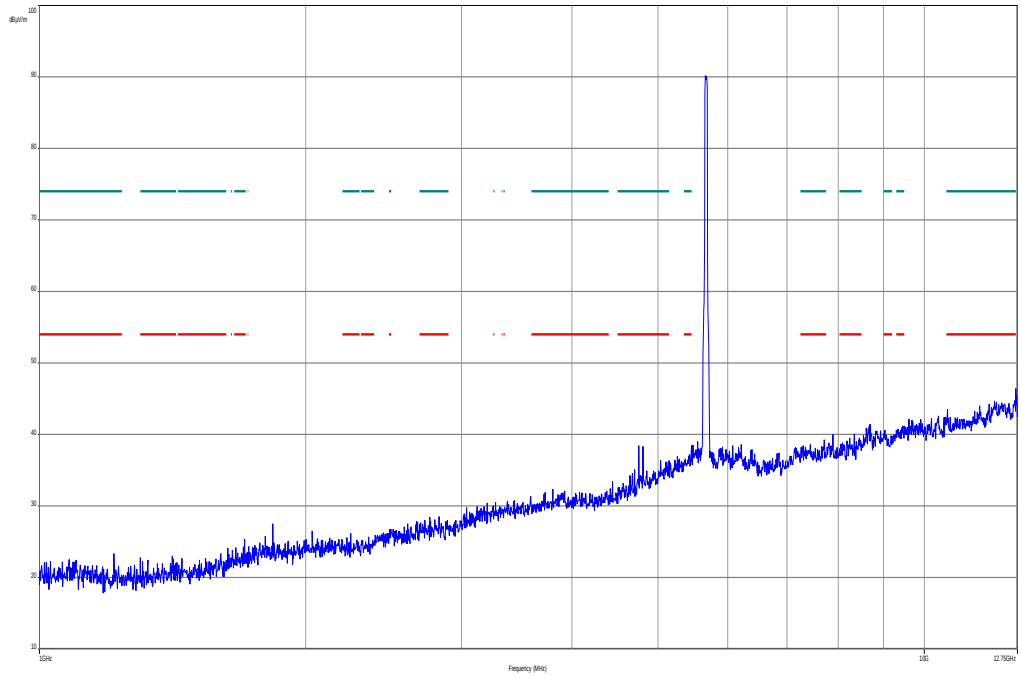
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



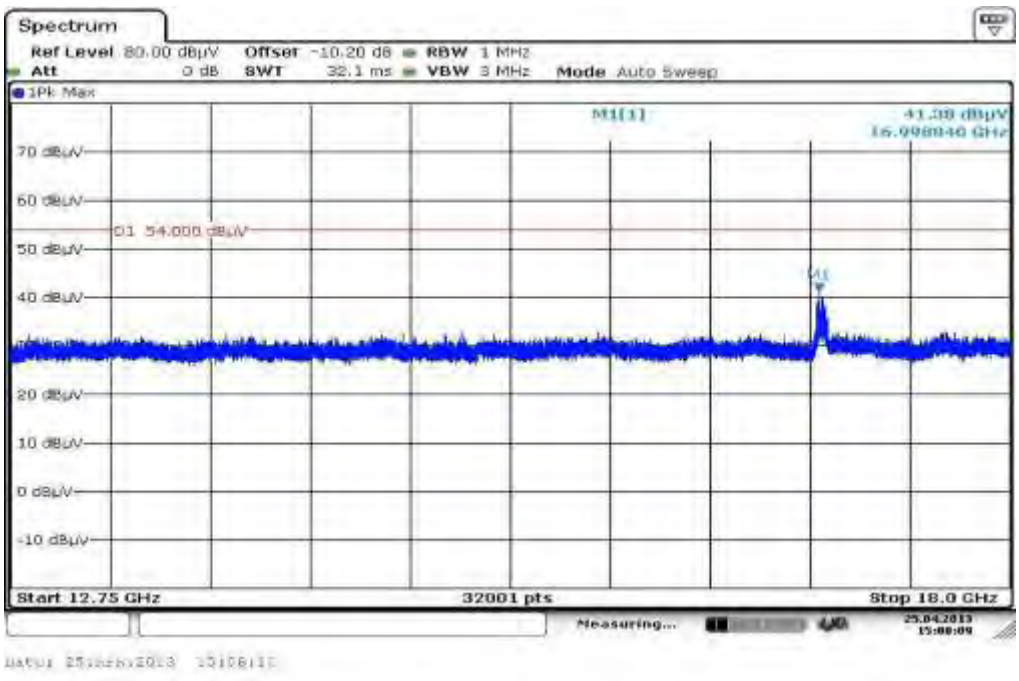
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
30.331471	9.5	1000.0	120.000	170.0	V	190.0	12.5	20.5	30.0	
35.311500	9.8	1000.0	120.000	162.0	H	190.0	13.1	20.2	30.0	
333.270750	11.7	1000.0	120.000	162.0	H	100.0	15.6	24.3	36.0	
562.604850	16.4	1000.0	120.000	132.0	V	280.0	19.7	19.6	36.0	
688.122000	19.0	1000.0	120.000	170.0	H	171.0	22.2	17.0	36.0	
945.423600	21.8	1000.0	120.000	98.0	H	0.0	25.3	14.2	36.0	

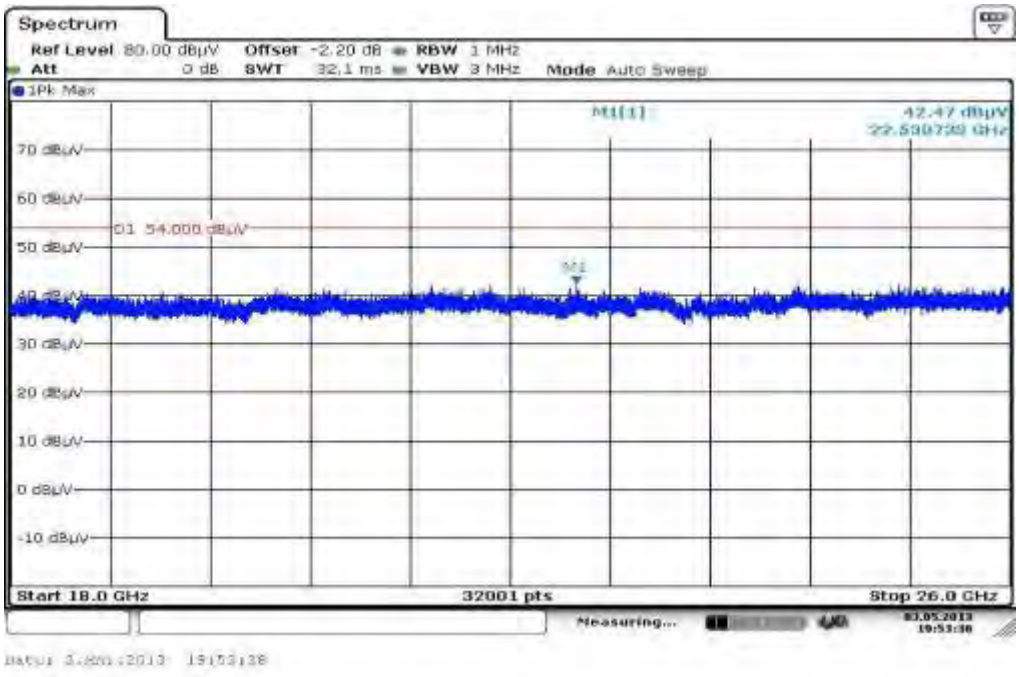
Plot 32: 1 GHz to 12.75 GHz, 5670 MHz, vertical & horizontal polarization



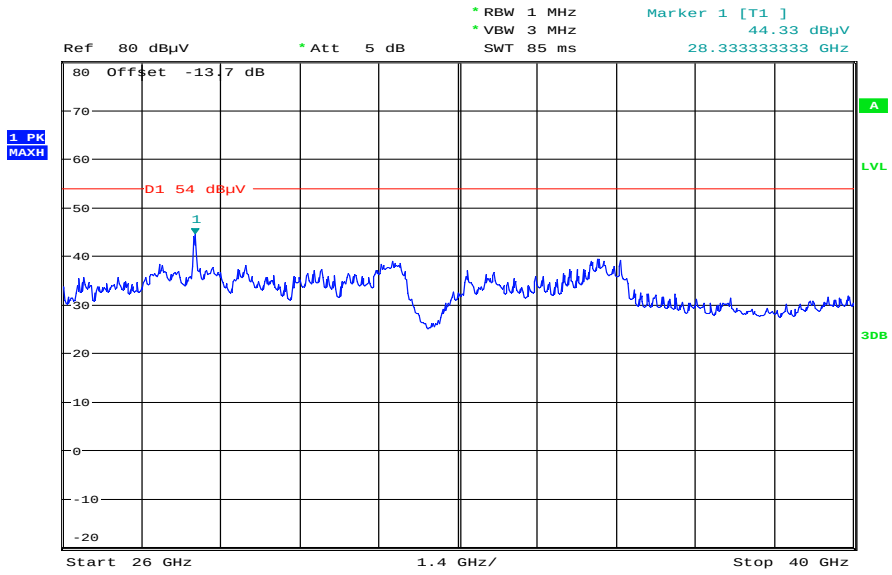
Plot 33: 12 GHz to 18 GHz, 5670 MHz, vertical & horizontal polarization



Plot 34: 18 GHz to 26 GHz, 5670 MHz, vertical & horizontal polarization



Plot 35: 26 GHz to 40 GHz, 5670 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:32:57

Antenna 453564154611

Plots: OFDM / a – mode

Plot 1: 30 MHz to 1 GHz, 5180 MHz, vertical & horizontal polarization

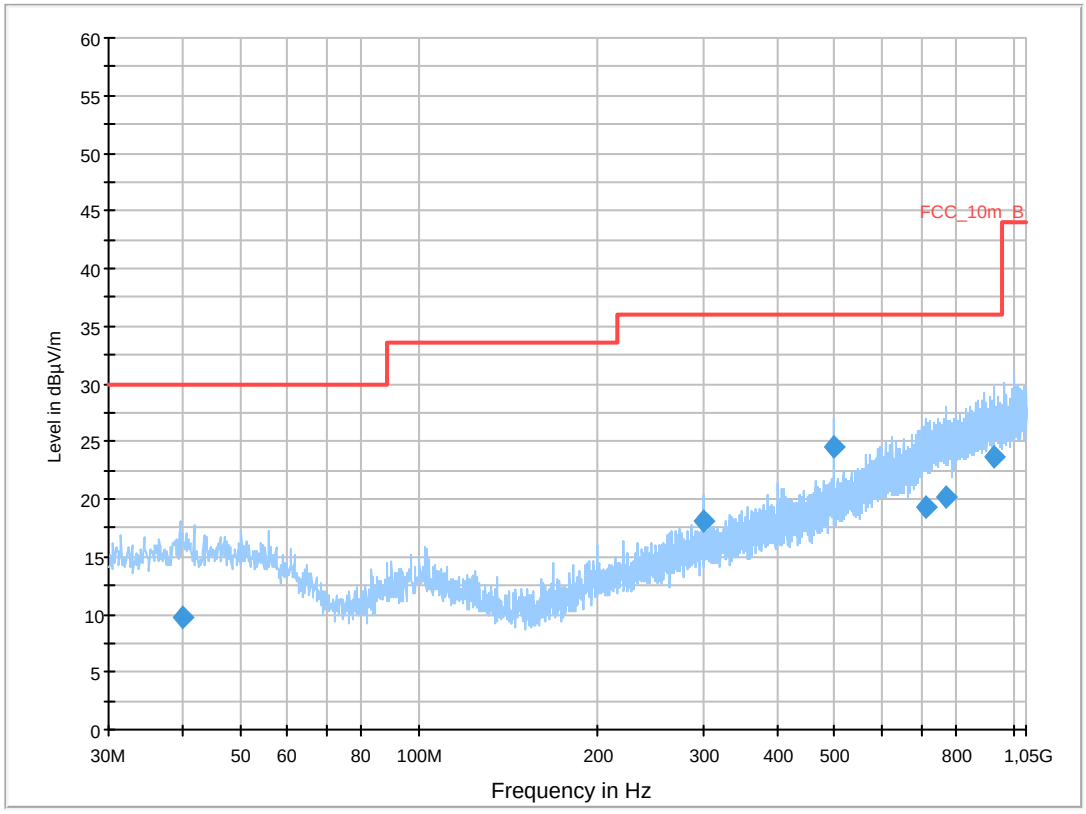
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	WLAN a mode tx @ 5180MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

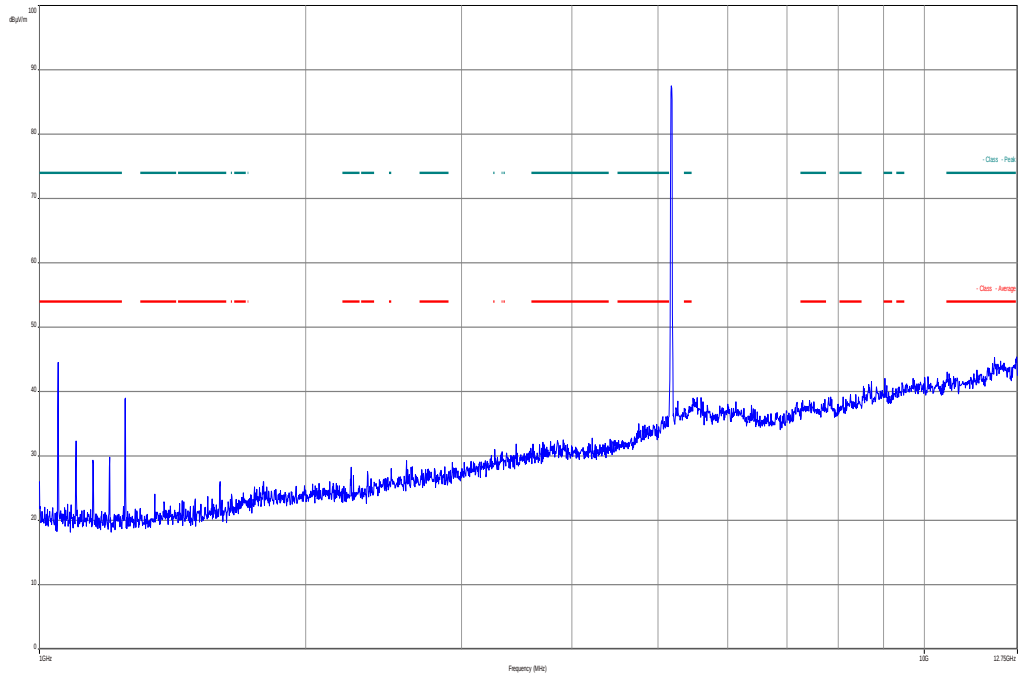
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



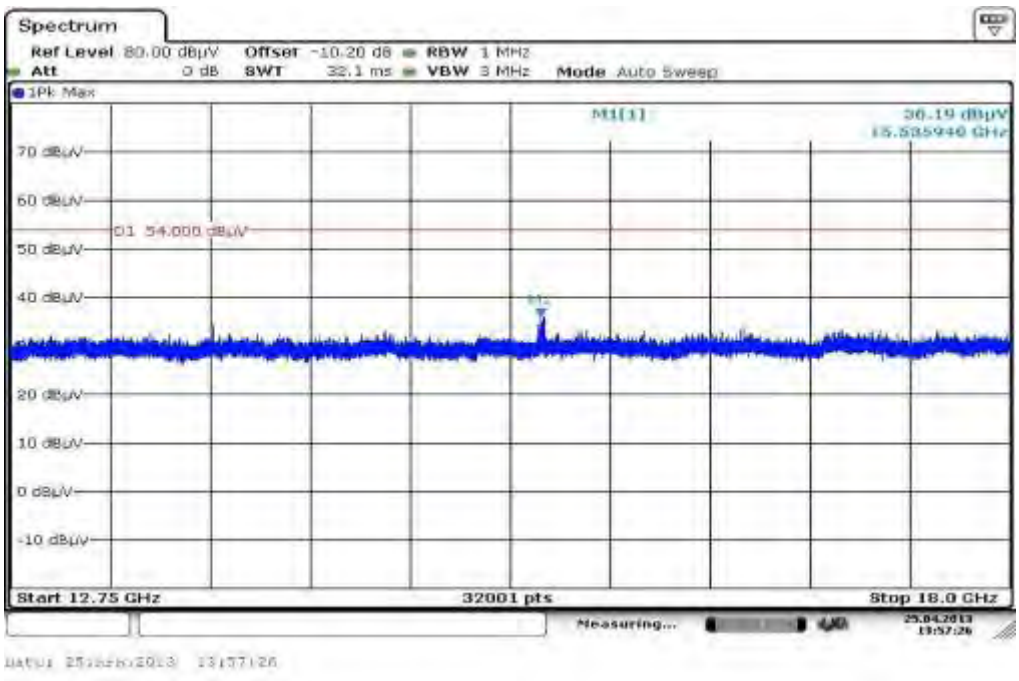
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
40.110300	9.8	1000.0	120.000	170.0	H	265.0	13.4	20.2	30.0	
300.008850	18.0	1000.0	120.000	111.0	V	100.0	14.5	18.0	36.0	
500.006550	24.6	1000.0	120.000	98.0	V	10.0	18.7	11.4	36.0	
711.271350	19.4	1000.0	120.000	170.0	V	90.0	22.8	16.6	36.0	
768.294900	20.2	1000.0	120.000	170.0	H	270.0	23.7	15.8	36.0	
927.329400	23.6	1000.0	120.000	170.0	V	100.0	25.3	12.4	36.0	

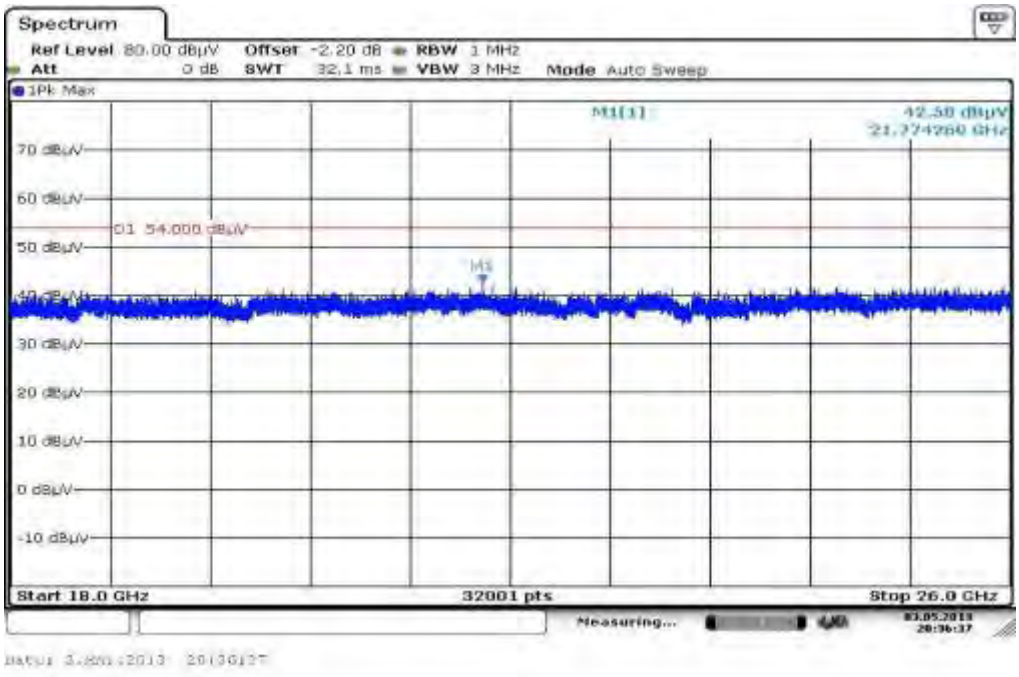
Plot 2: 1 GHz to 12.75 GHz, 5180 MHz, vertical & horizontal polarization



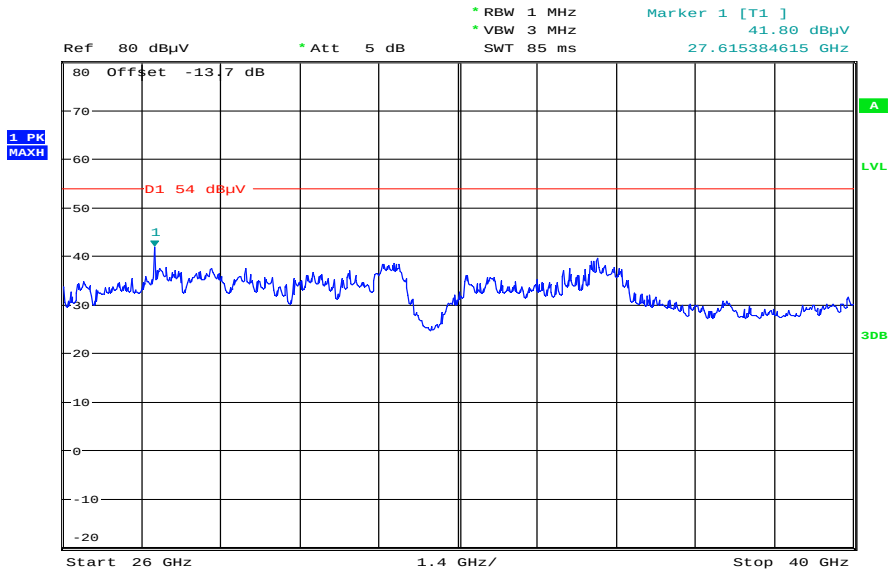
Plot 3: 12 GHz to 18 GHz, 5180 MHz, vertical & horizontal polarization



Plot 4: 18 GHz to 26 GHz, 5180 MHz, vertical & horizontal polarization



Plot 5: 26 GHz to 40 GHz, 5180 MHz, vertical & horizontal polarization



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Plot 6: 30 MHz to 1 GHz, 5240 MHz, vertical & horizontal polarization

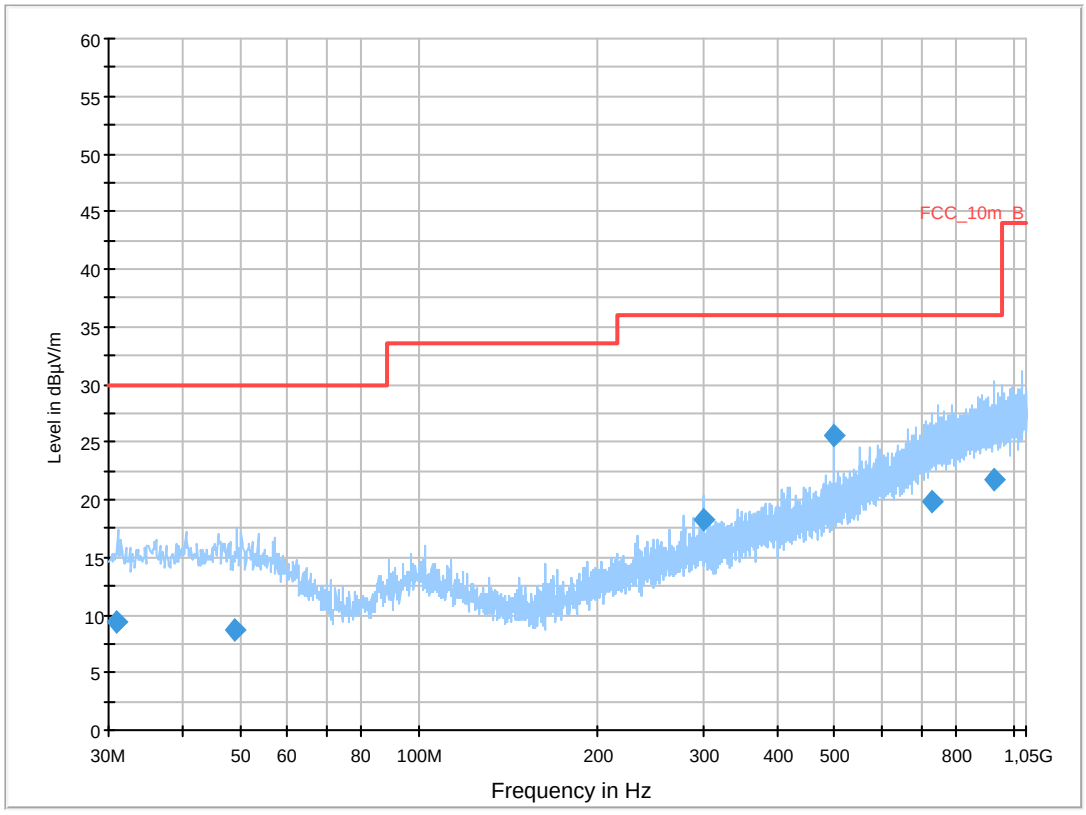
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	WLAN a mode tx @ 5240MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

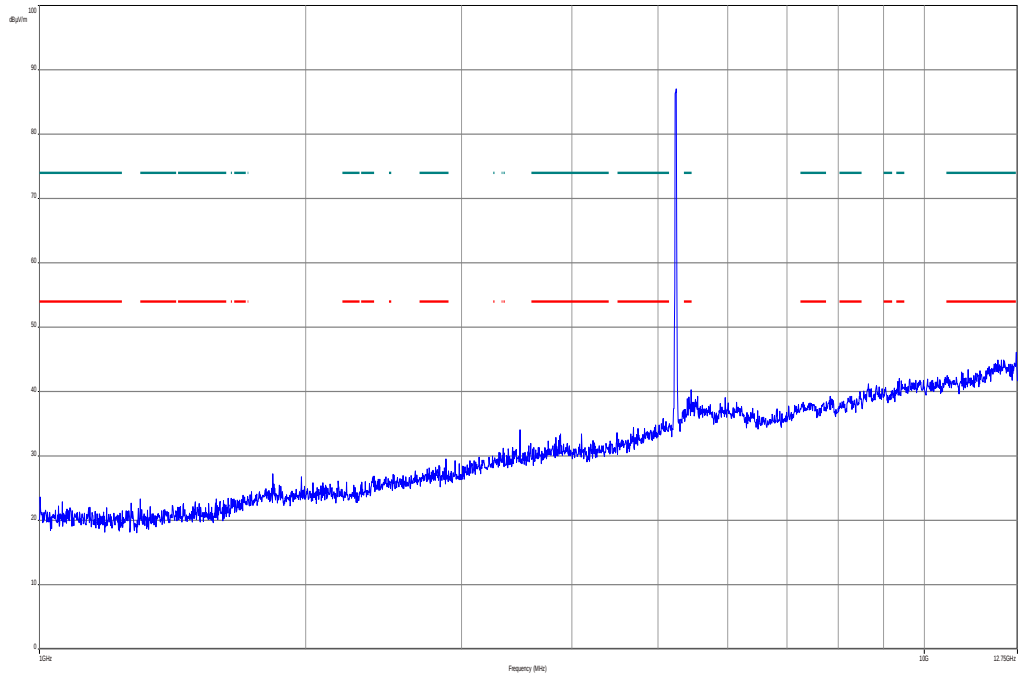
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



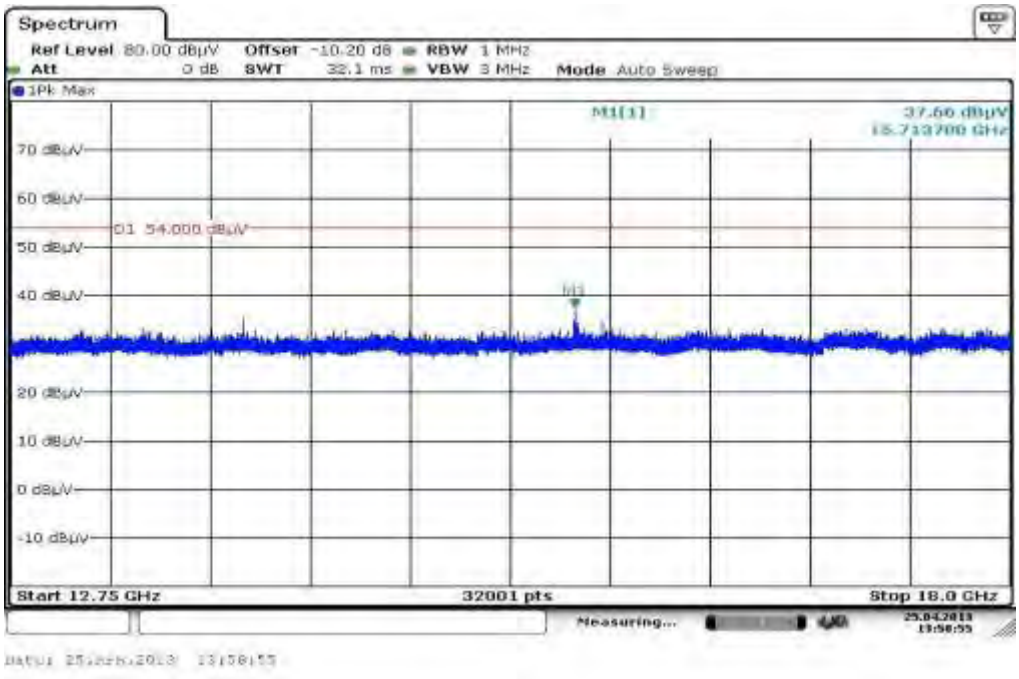
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
30.952050	9.3	1000.0	120.000	160.0	V	190.0	12.6	20.7	30.0	
48.837150	8.6	1000.0	120.000	170.0	V	265.0	13.3	21.4	30.0	
299.973300	18.3	1000.0	120.000	98.0	V	2.0	14.5	17.7	36.0	
499.981650	25.5	1000.0	120.000	98.0	V	266.0	18.7	10.5	36.0	
728.077500	19.8	1000.0	120.000	104.0	H	100.0	23.2	16.2	36.0	
924.650850	21.8	1000.0	120.000	145.0	H	-2.0	25.3	14.2	36.0	

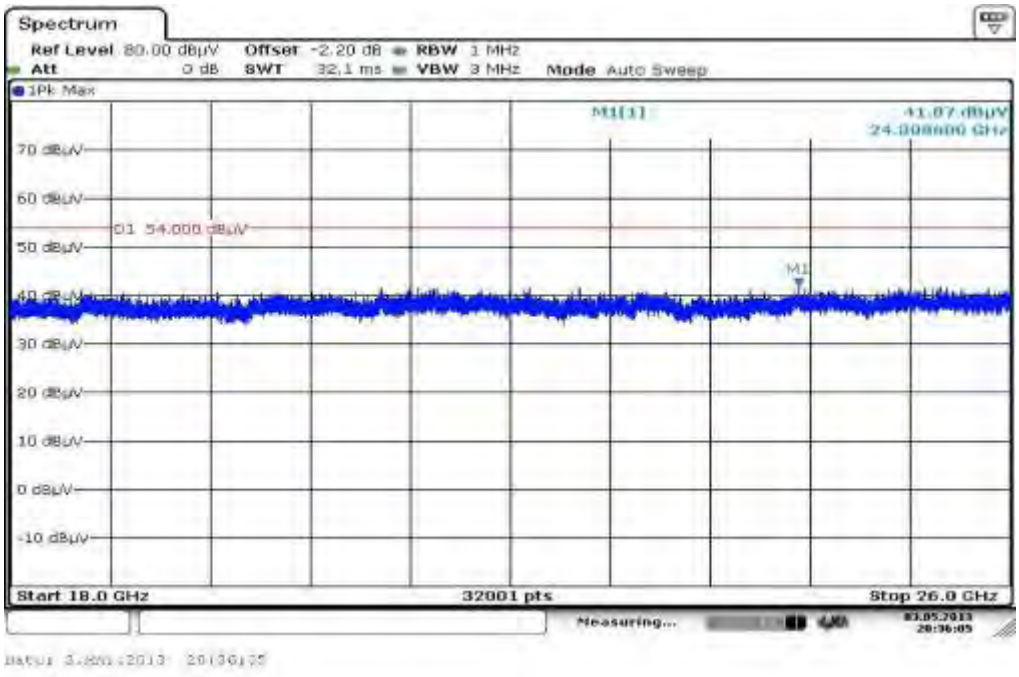
Plot 7: 1 GHz to 12.75 GHz, 5240 MHz, vertical & horizontal polarization



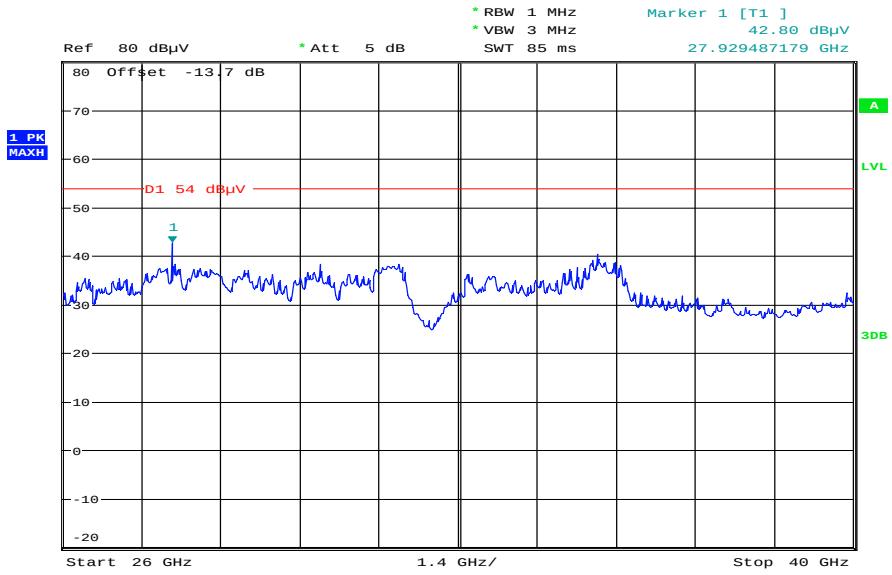
Plot 8: 12 GHz to 18 GHz, 5240 MHz, vertical & horizontal polarization



Plot 9: 18 GHz to 26 GHz, 5240 MHz, vertical & horizontal polarization



Plot 10: 26 GHz to 40 GHz, 5240 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:43:02

Plot 11: 30 MHz to 1 GHz, 5260 MHz, vertical & horizontal polarization

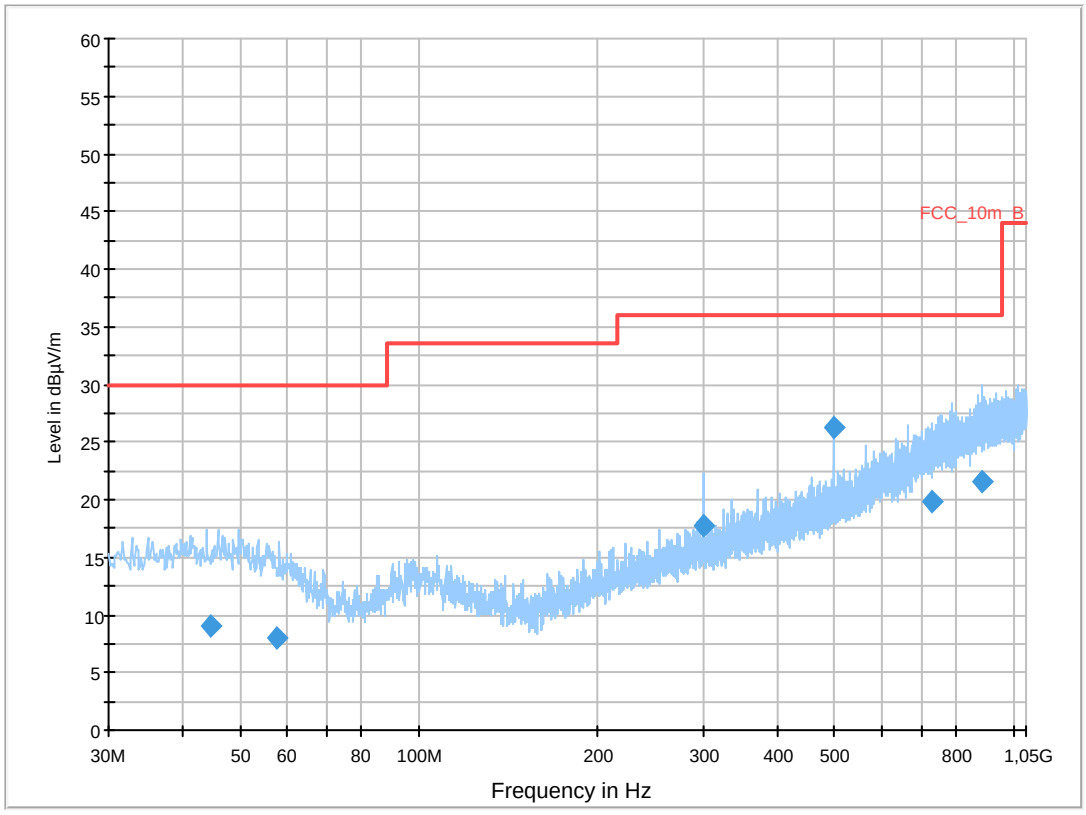
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	WLAN a mode tx @ 5260MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

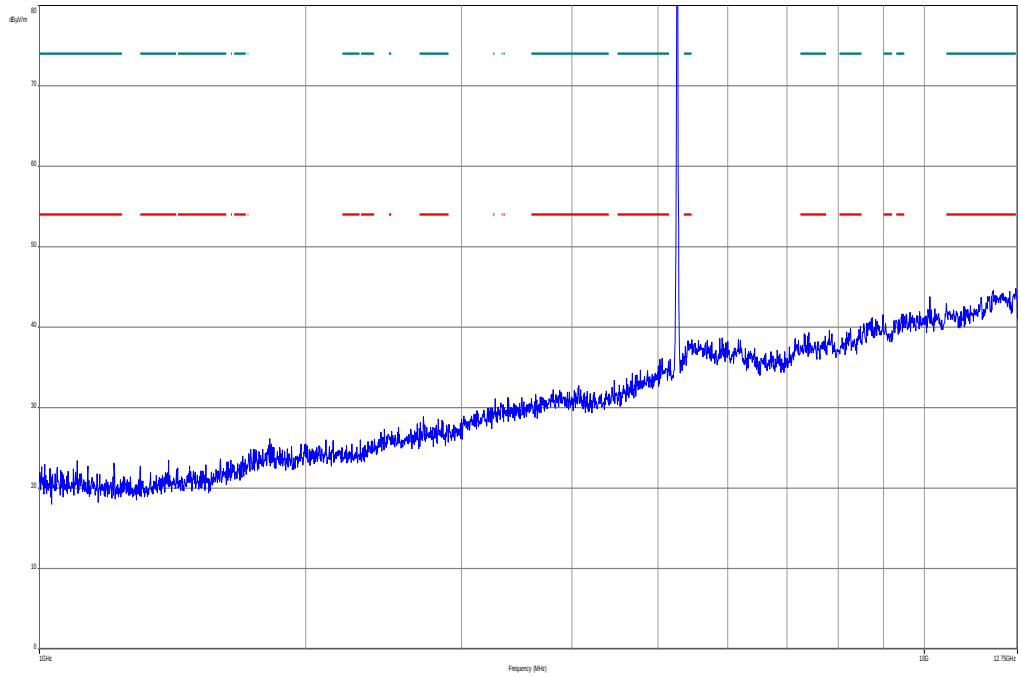
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



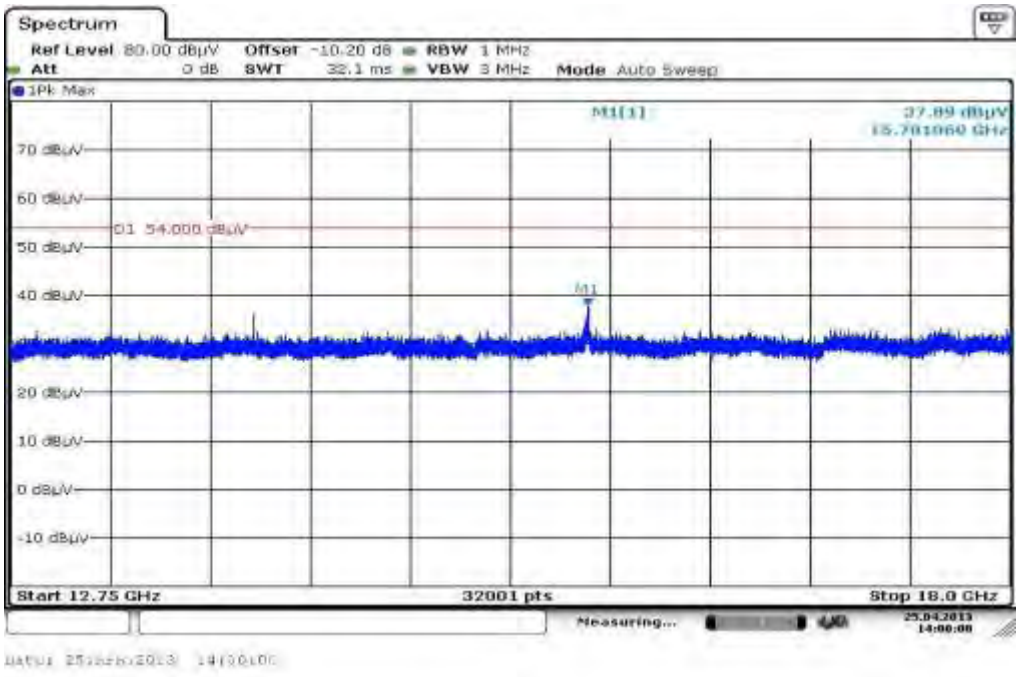
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
44.474400	9.0	1000.0	120.000	170.0	H	10.0	13.3	21.0	30.0	
57.775500	8.0	1000.0	120.000	98.0	V	270.0	12.2	22.0	30.0	
299.964900	17.8	1000.0	120.000	98.0	V	100.0	14.5	18.2	36.0	
500.018700	26.2	1000.0	120.000	104.0	V	265.0	18.7	9.8	36.0	
729.023100	19.8	1000.0	120.000	170.0	V	280.0	23.2	16.2	36.0	
884.981400	21.6	1000.0	120.000	170.0	V	182.0	25.0	14.4	36.0	

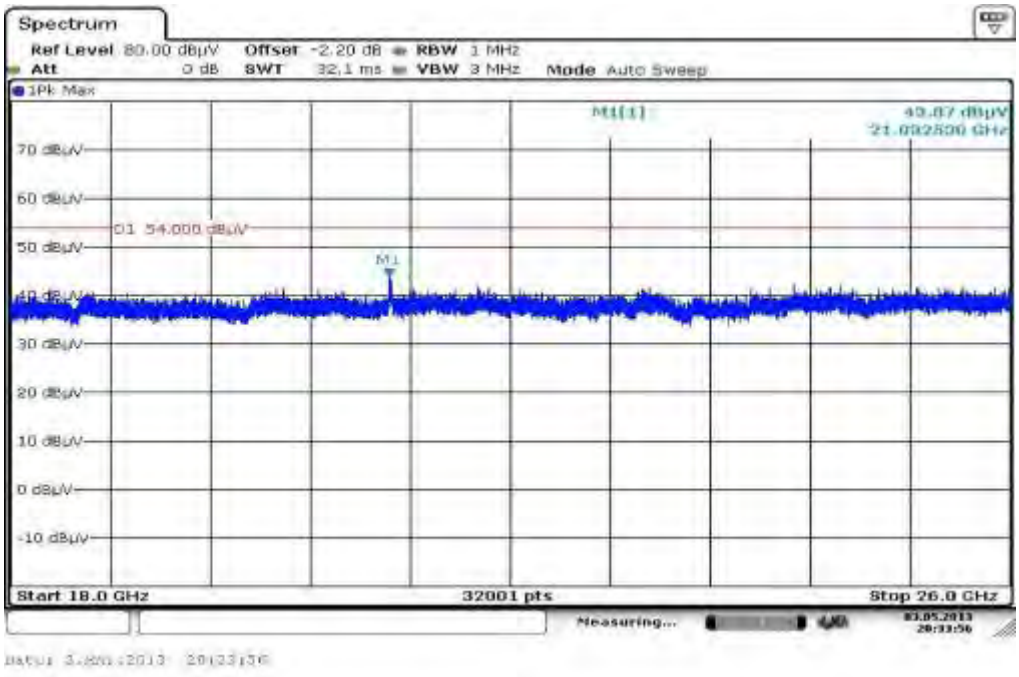
Plot 12: 1 GHz to 12.75 GHz, 5260 MHz, vertical & horizontal polarization



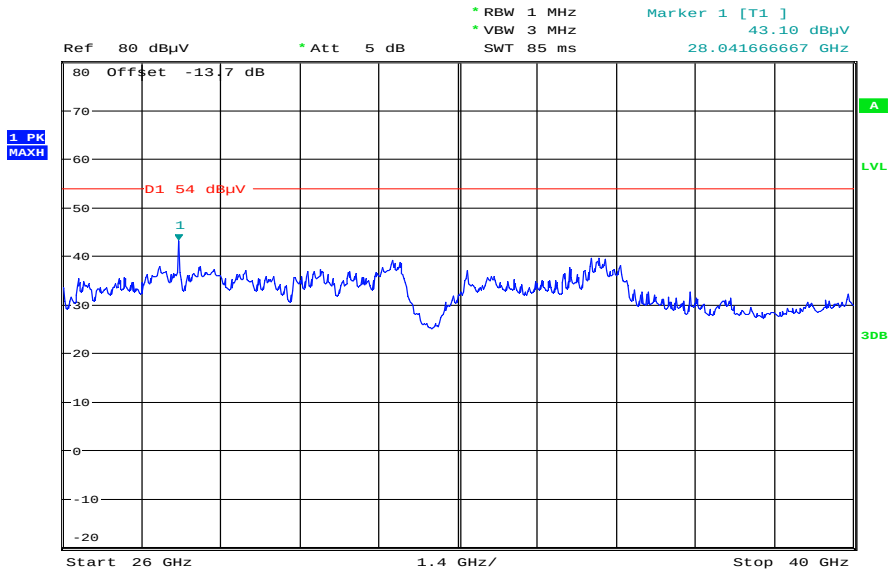
Plot 13: 12 GHz to 18 GHz, 5260 MHz, vertical & horizontal polarization



Plot 14: 18 GHz to 26 GHz, 5260 MHz, vertical & horizontal polarization



Plot 15: 26 GHz to 40 GHz, 5260 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:44:03

Plot 16: 30 MHz to 1 GHz, 5320 MHz, vertical & horizontal polarization

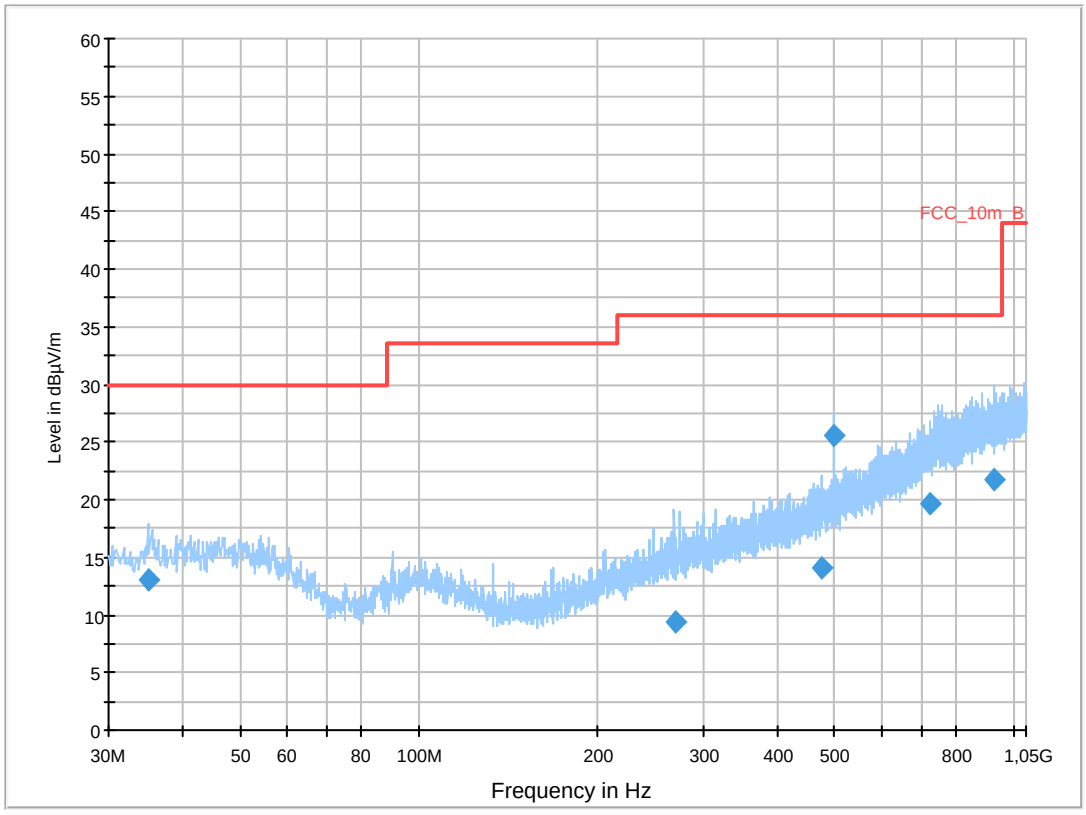
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	WLAN a mode tx @ 5320MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

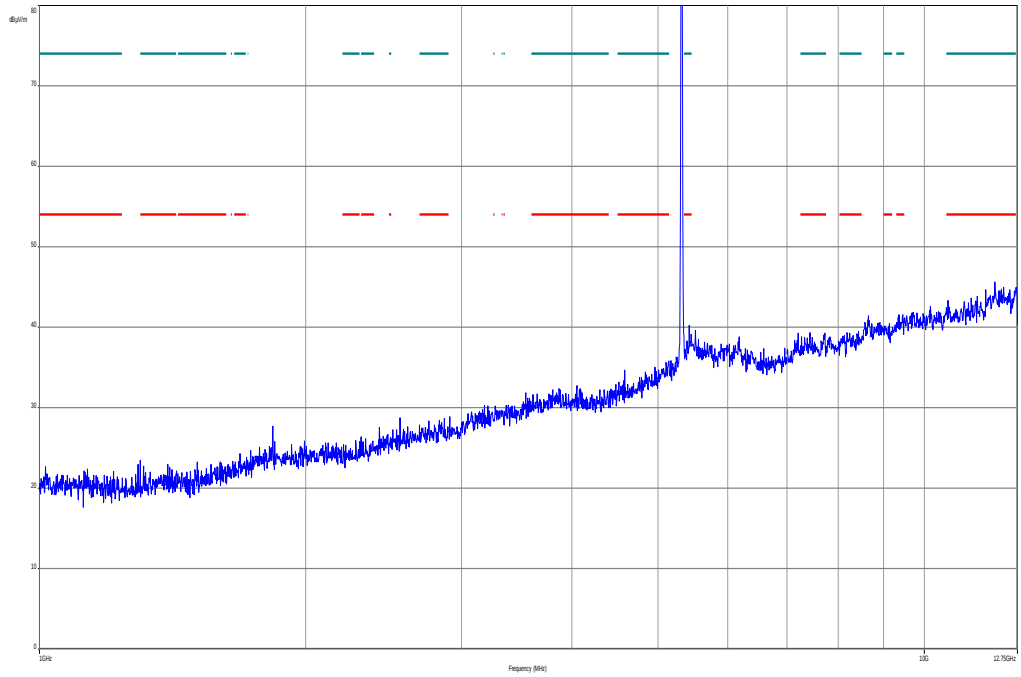
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



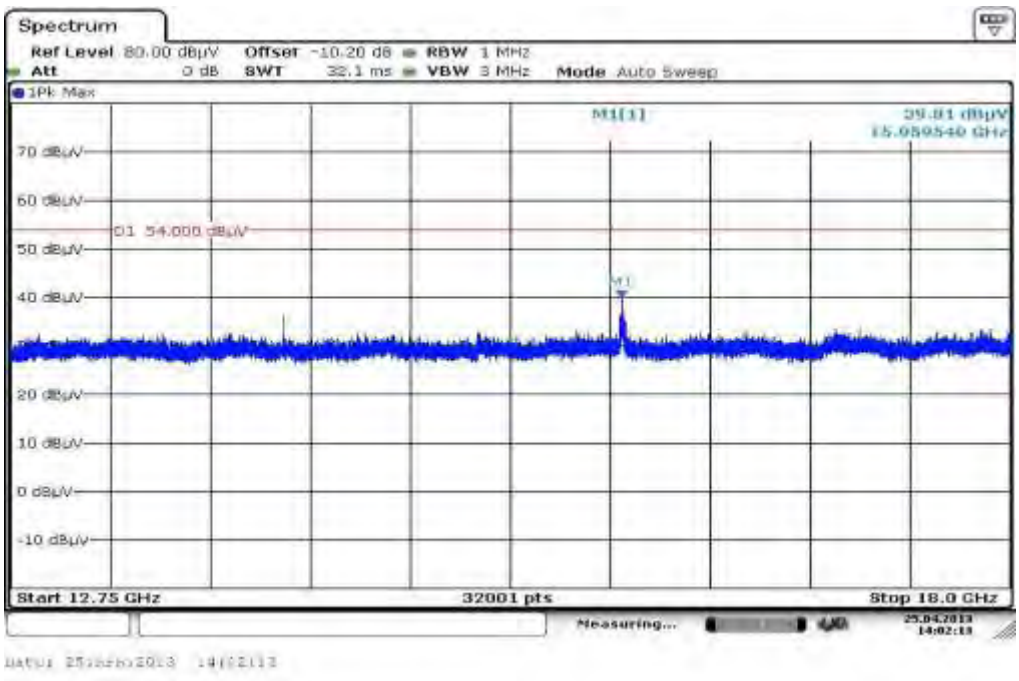
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
35.018850	13.1	1000.0	120.000	143.0	V	92.0	13.0	16.9	30.0	
269.401200	9.4	1000.0	120.000	170.0	H	268.0	13.8	26.6	36.0	
475.028400	14.1	1000.0	120.000	170.0	H	-10.0	18.2	21.9	36.0	
500.022300	25.5	1000.0	120.000	105.0	V	272.0	18.7	10.5	36.0	
725.686800	19.6	1000.0	120.000	170.0	V	190.0	23.1	16.4	36.0	
930.650100	21.8	1000.0	120.000	120.0	H	171.0	25.3	14.2	36.0	

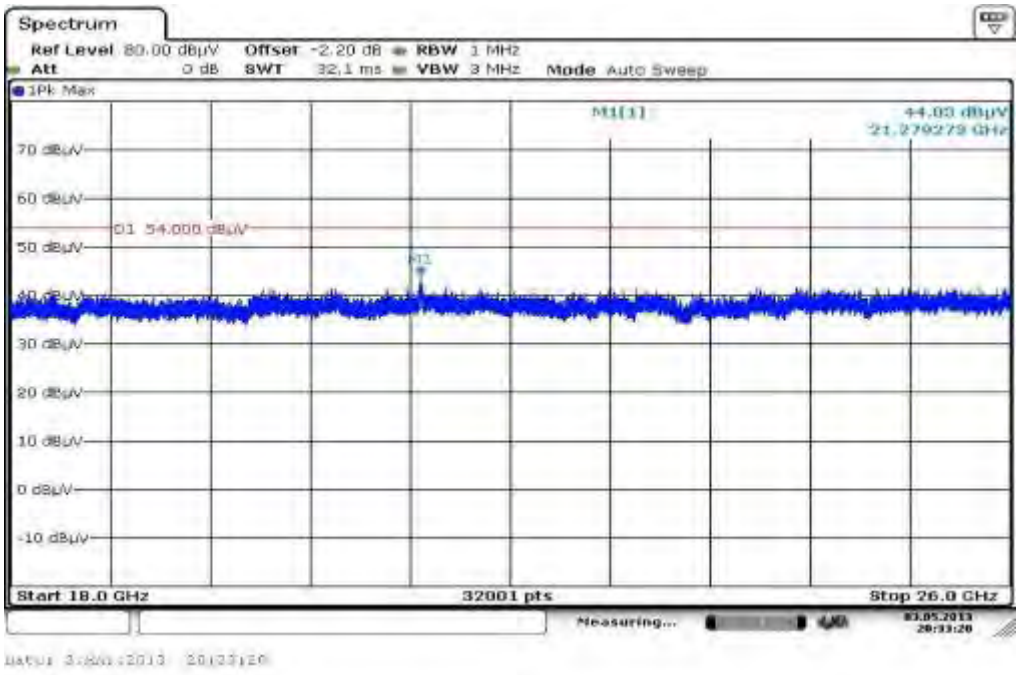
Plot 17: 1 GHz to 12.75 GHz, 5320 MHz, vertical & horizontal polarization



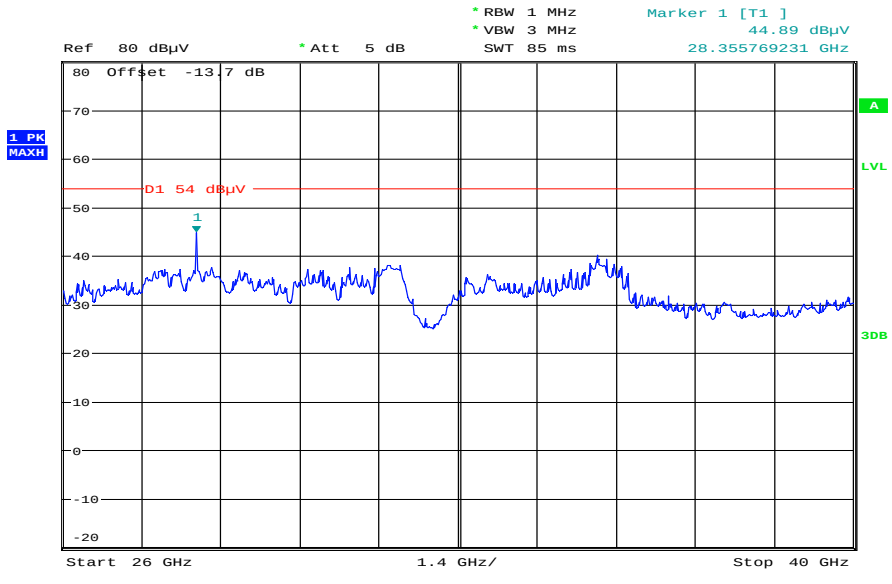
Plot 18: 12 GHz to 18 GHz, 5320 MHz, vertical & horizontal polarization



Plot 19: 18 GHz to 26 GHz, 5320 MHz, vertical & horizontal polarization



Plot 20: 26 GHz to 40 GHz, 5320 MHz, vertical & horizontal polarization



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Plot 21: 30 MHz to 1 GHz, 5500 MHz, vertical & horizontal polarization

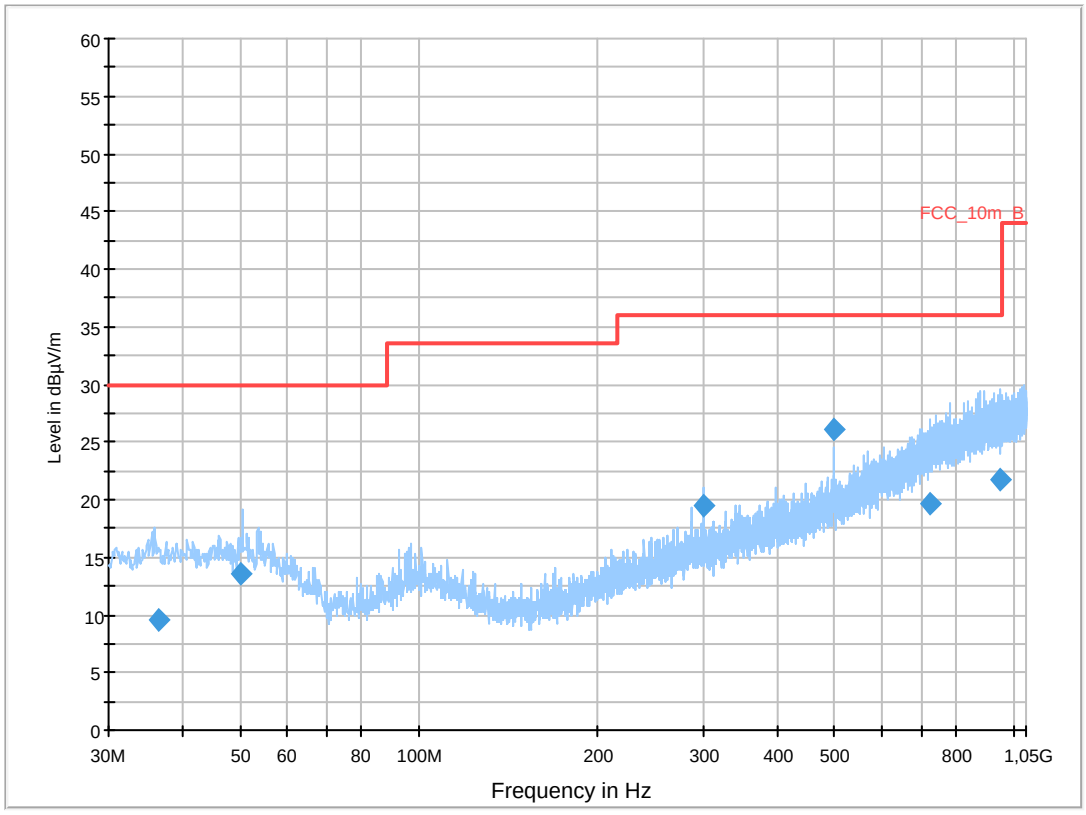
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	WLAN a mode tx @ 5500MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

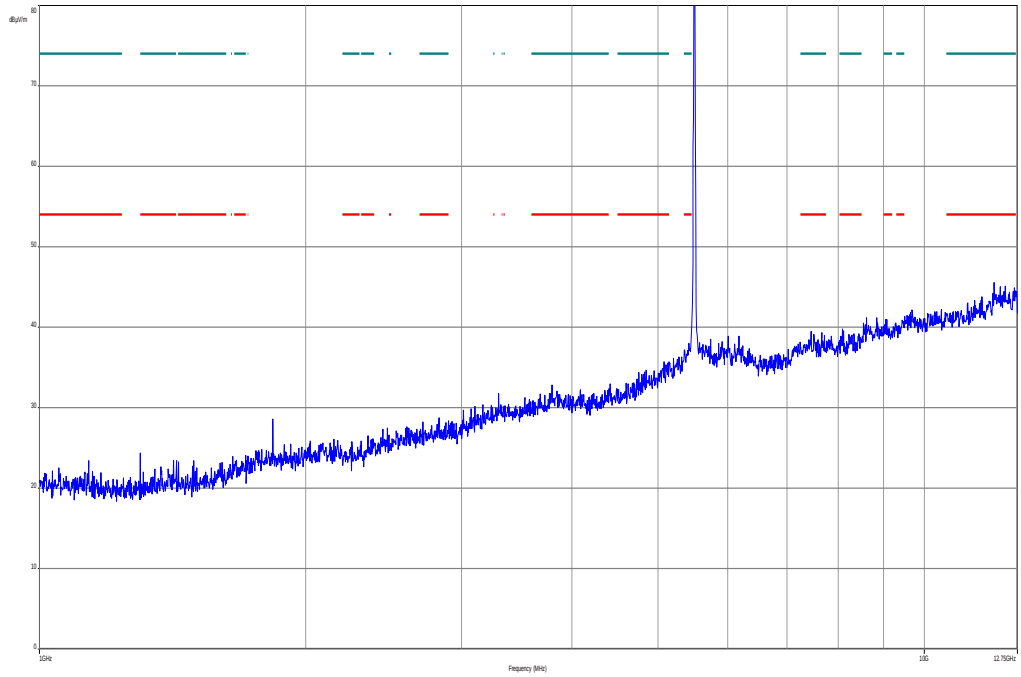
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



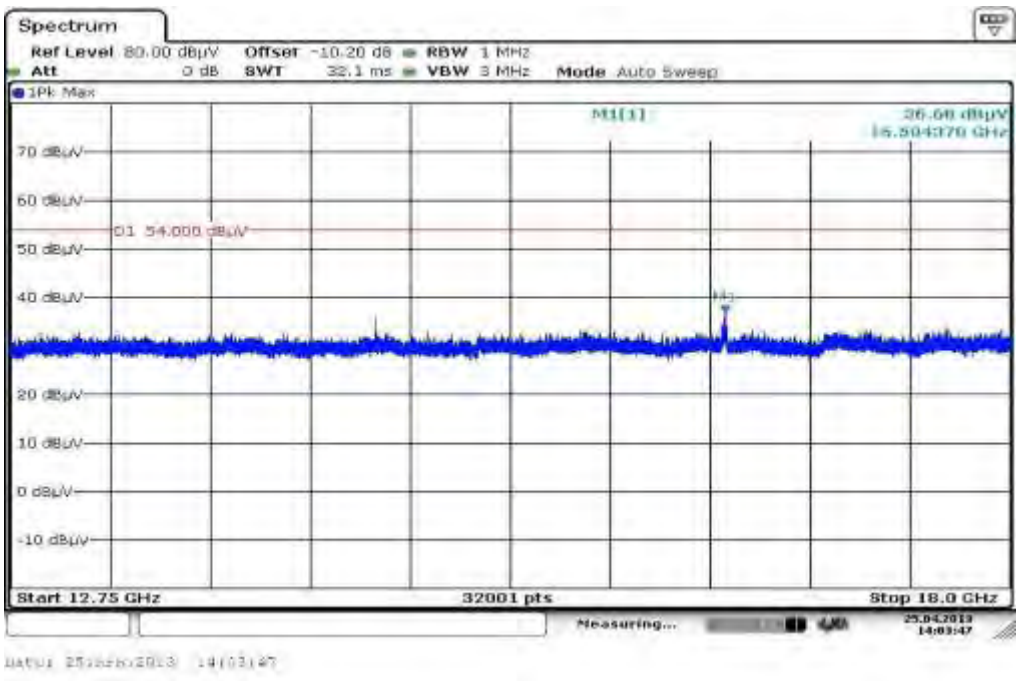
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
36.391200	9.5	1000.0	120.000	111.0	H	190.0	13.1	20.5	30.0	
50.185050	13.5	1000.0	120.000	170.0	V	280.0	13.4	16.5	30.0	
299.996400	19.4	1000.0	120.000	111.0	V	88.0	14.5	16.6	36.0	
499.992900	26.0	1000.0	120.000	98.0	V	260.0	18.7	10.0	36.0	
724.747500	19.6	1000.0	120.000	170.0	V	272.0	23.1	16.4	36.0	
946.968600	21.7	1000.0	120.000	170.0	H	171.0	25.3	14.3	36.0	

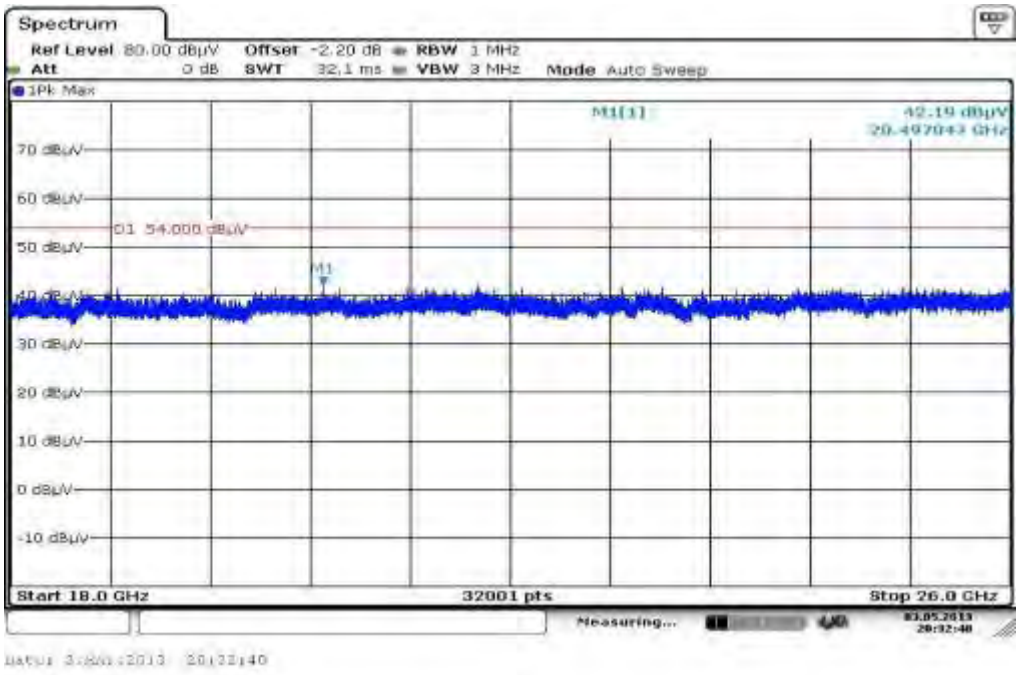
Plot 22: 1 GHz to 12.75 GHz, 5500 MHz, vertical & horizontal polarization



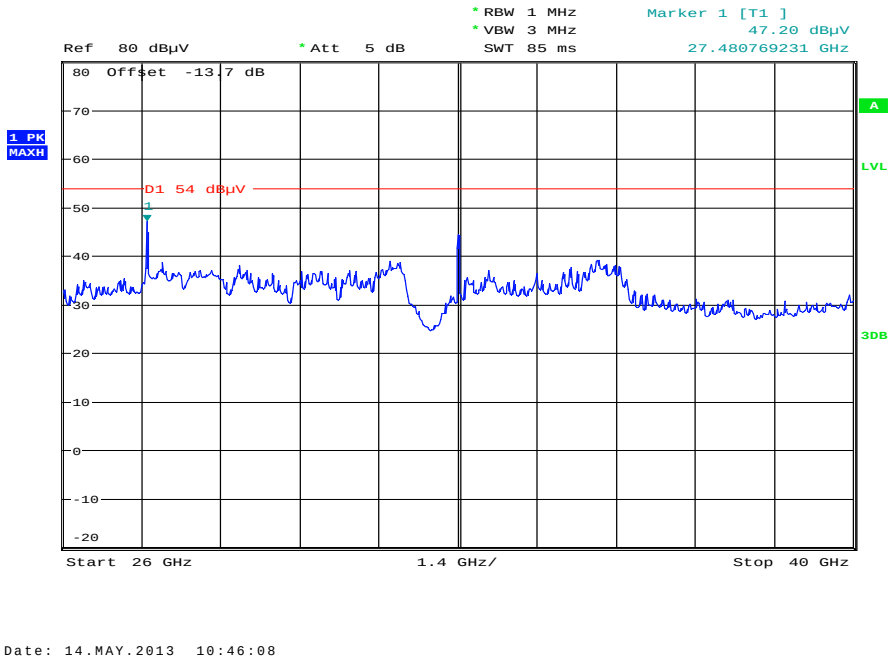
Plot 23: 12 GHz to 18 GHz, 5500 MHz, vertical & horizontal polarization



Plot 24: 18 GHz to 26 GHz, 5500 MHz, vertical & horizontal polarization



Plot 25: 26 GHz to 40 GHz, 5500 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:46:08

Plot 26: 30 MHz to 1 GHz, 5600 MHz, vertical & horizontal polarization

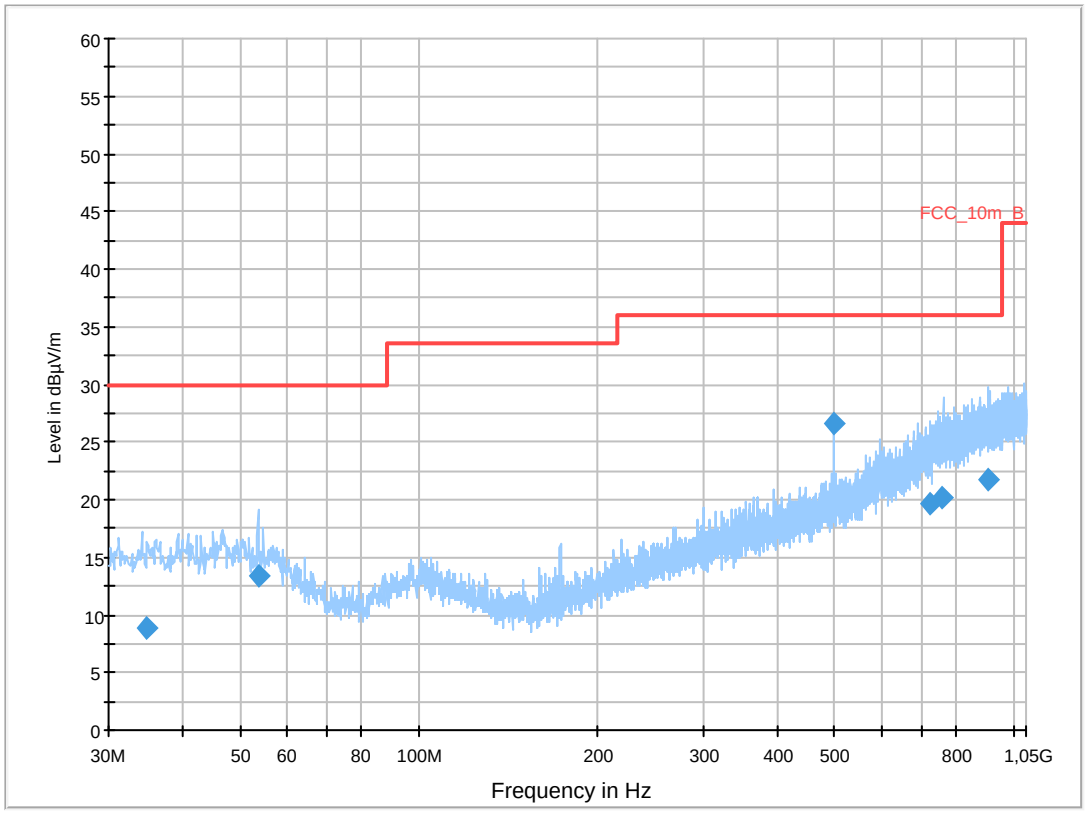
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	WLAN a mode tx @ 5600MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

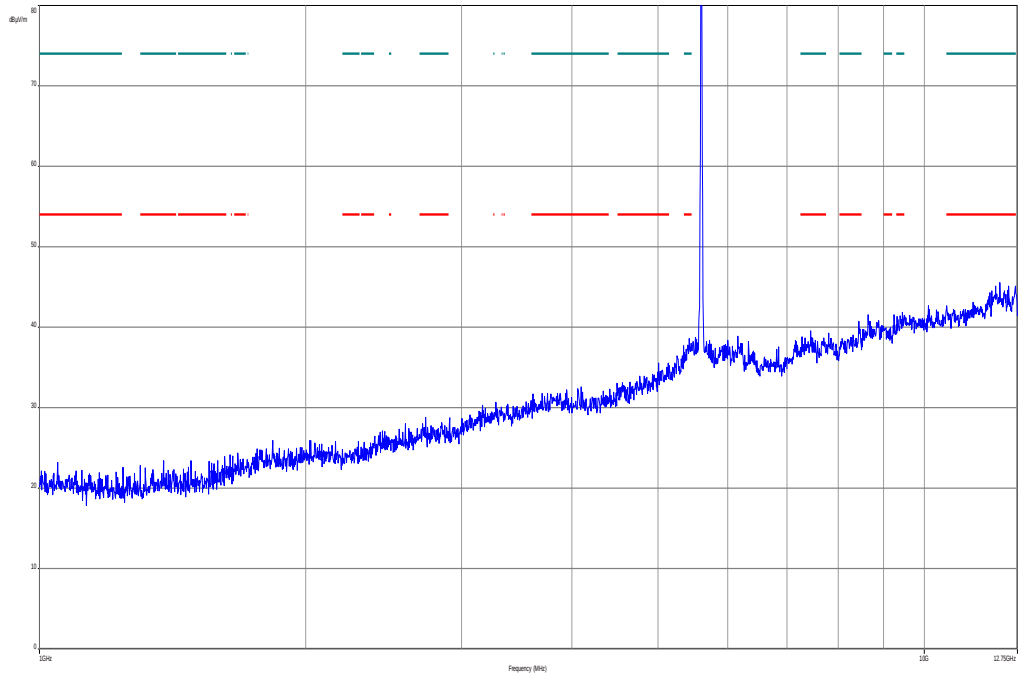
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



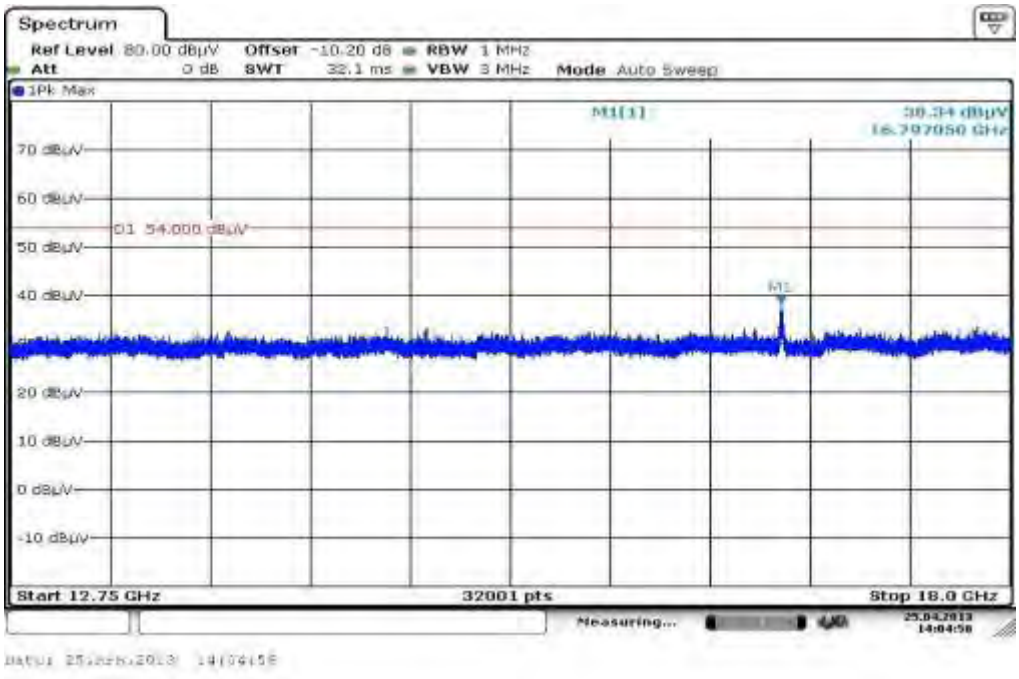
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
34.696350	8.9	1000.0	120.000	170.0	H	280.0	13.0	21.1	30.0	
53.611950	13.4	1000.0	120.000	170.0	V	171.0	13.0	16.6	30.0	
500.004450	26.6	1000.0	120.000	170.0	H	260.0	18.7	9.4	36.0	
726.027300	19.7	1000.0	120.000	170.0	V	182.0	23.1	16.3	36.0	
760.278600	20.1	1000.0	120.000	170.0	V	85.0	23.7	15.9	36.0	
907.925250	21.8	1000.0	120.000	170.0	V	86.0	25.2	14.2	36.0	

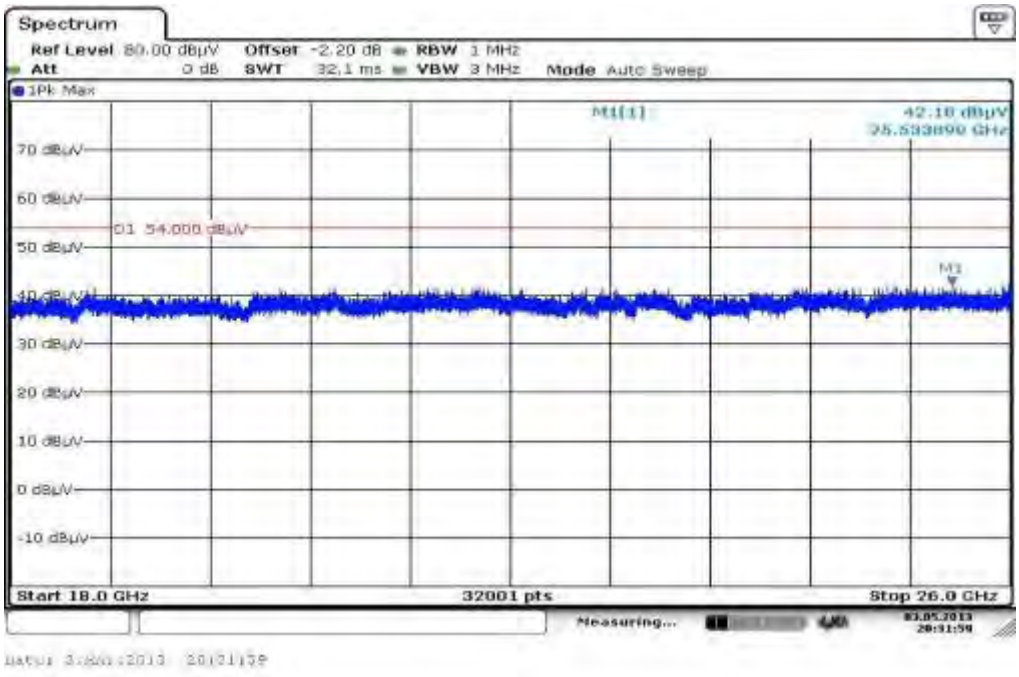
Plot 27: 1 GHz to 12.75 GHz, 5600 MHz, vertical & horizontal polarization



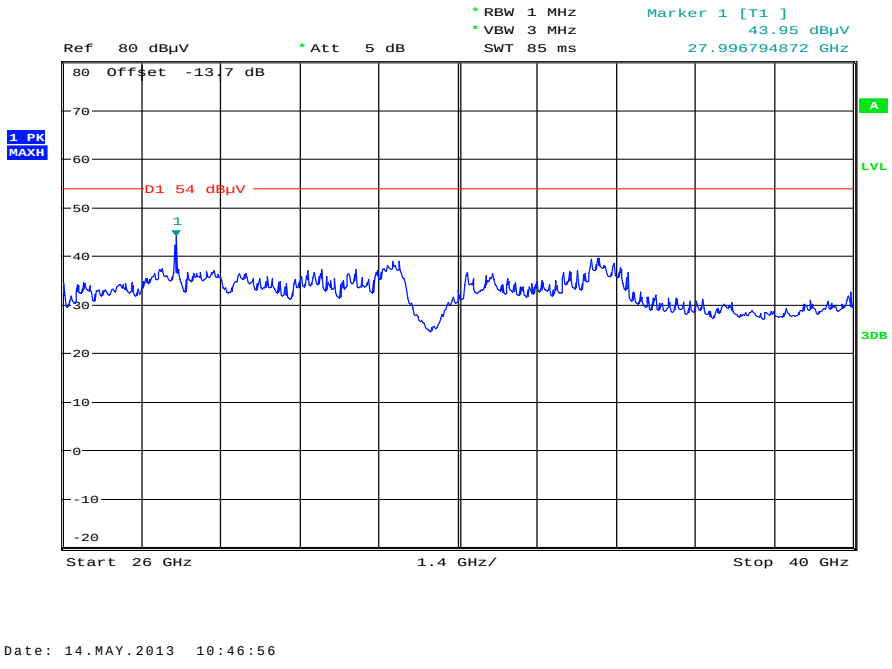
Plot 28: 12 GHz to 18 GHz, 5600 MHz, vertical & horizontal polarization



Plot 29: 18 GHz to 26 GHz, 5600 MHz, vertical & horizontal polarization



Plot 30: 26 GHz to 40 GHz, 5600 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:46:56

Plot 31: 30 MHz to 1 GHz, 5700 MHz, vertical & horizontal polarization

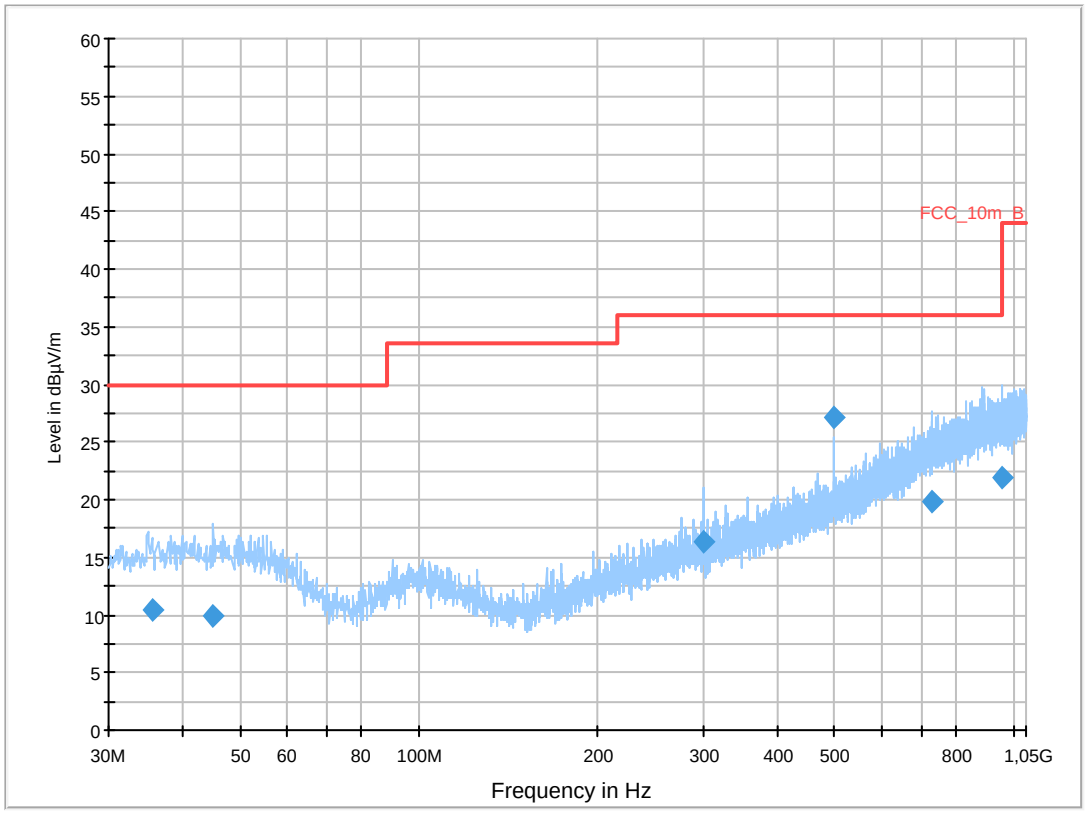
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	WLAN a mode tx @ 5700MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

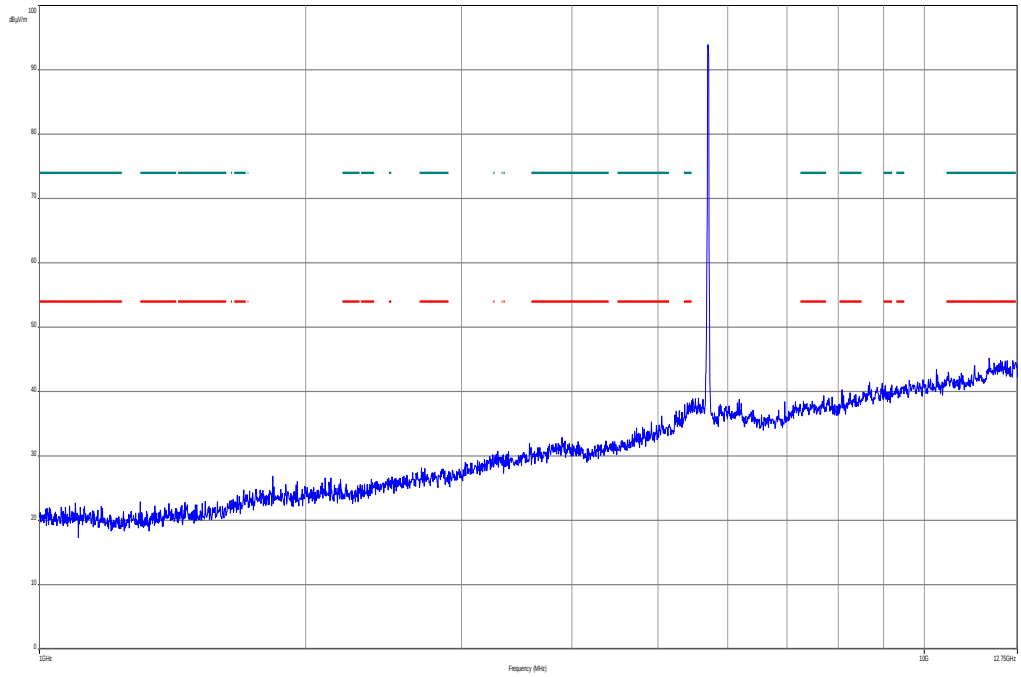
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



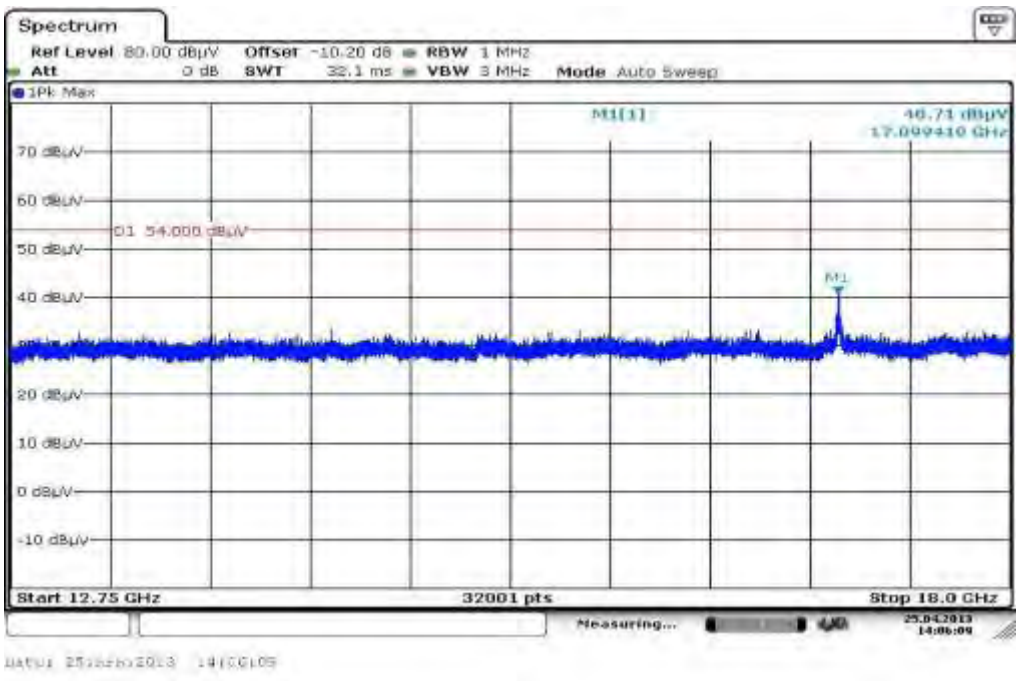
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
35.525100	10.4	1000.0	120.000	120.0	V	-9.0	13.1	19.6	30.0	
44.990700	10.0	1000.0	120.000	98.0	V	100.0	13.3	20.0	30.0	
300.039600	16.3	1000.0	120.000	105.0	V	100.0	14.5	19.7	36.0	
500.012700	27.1	1000.0	120.000	120.0	V	280.0	18.7	8.9	36.0	
728.653650	19.8	1000.0	120.000	170.0	V	87.0	23.2	16.2	36.0	
955.887750	21.8	1000.0	120.000	170.0	H	-2.0	25.4	14.2	36.0	

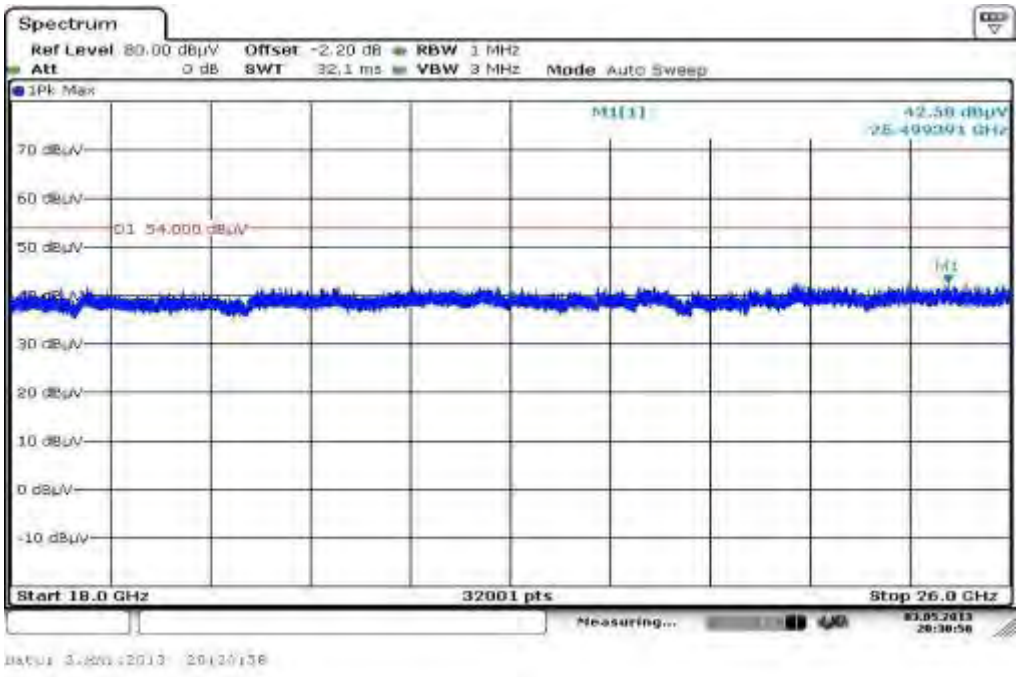
Plot 32: 1 GHz to 12.75 GHz, 5700 MHz, vertical & horizontal polarization



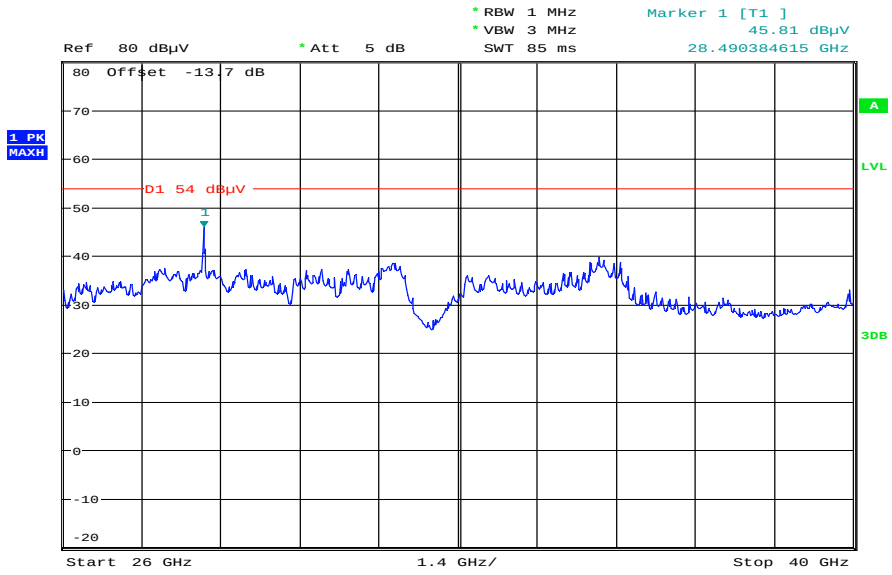
Plot 33: 12 GHz to 18 GHz, 5700 MHz, vertical & horizontal polarization



Plot 34: 18 GHz to 26 GHz, 5700 MHz, vertical & horizontal polarization



Plot 35: 26 GHz to 40 GHz, 5700 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:47:59

Plots: OFDM / n – mode HT20

Plot 1: 30 MHz to 1 GHz, 5180 MHz, vertical & horizontal polarization

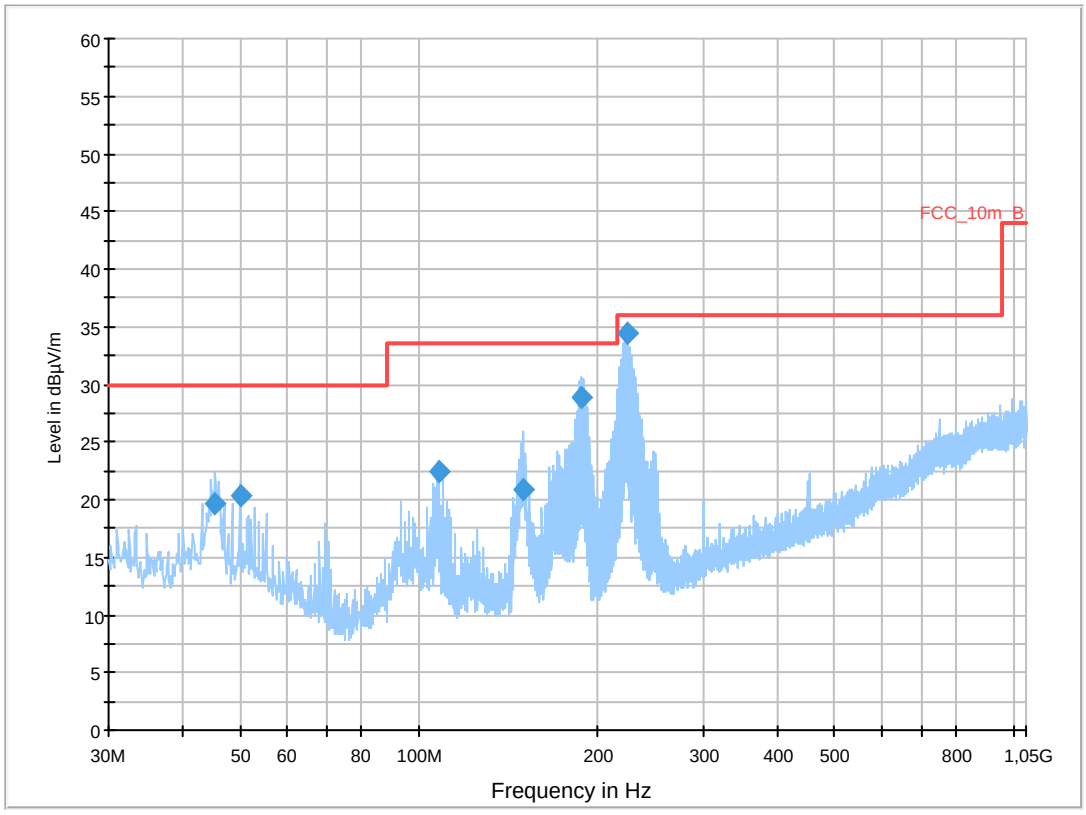
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	eval
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode ch36
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

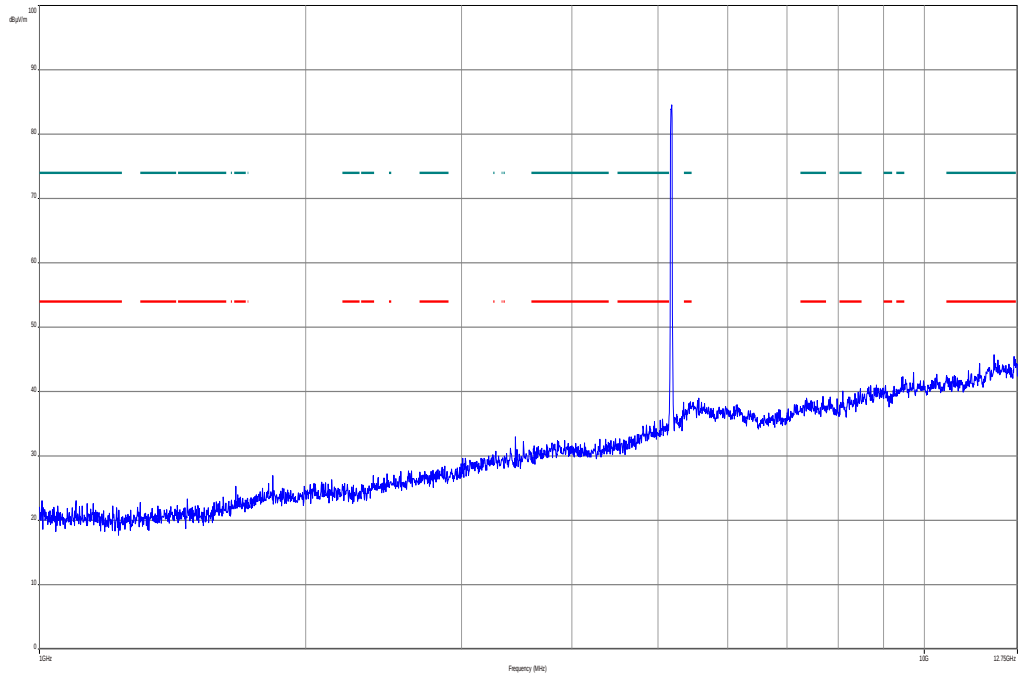
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



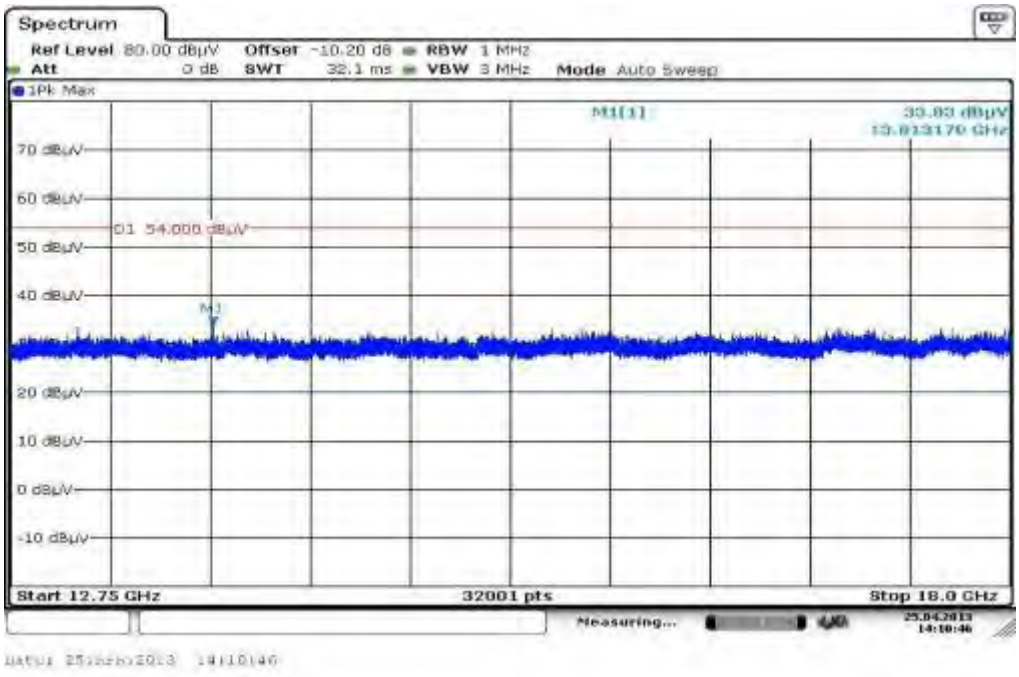
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
45.360000	19.6	1000.0	120.000	98.0	V	89.0	13.3	10.4	30.0	
49.920000	20.4	1000.0	120.000	104.0	V	192.0	13.4	9.6	30.0	
108.120000	22.4	1000.0	120.000	199.0	V	166.0	11.2	11.1	33.5	
149.760000	20.9	1000.0	120.000	98.0	V	337.0	8.9	12.6	33.5	
187.560000	28.8	1000.0	120.000	104.0	V	89.0	10.9	4.7	33.5	
223.800000	34.4	1000.0	120.000	185.0	V	28.0	12.5	1.6	36.0	

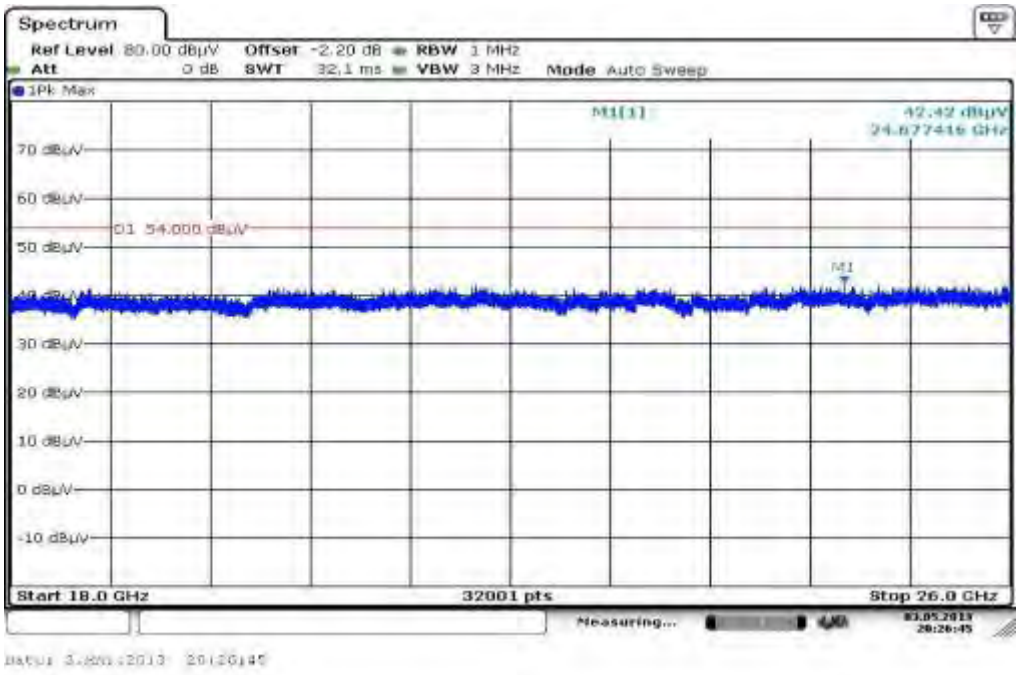
Plot 2: 1 GHz to 12.75 GHz, 5180 MHz, vertical & horizontal polarization



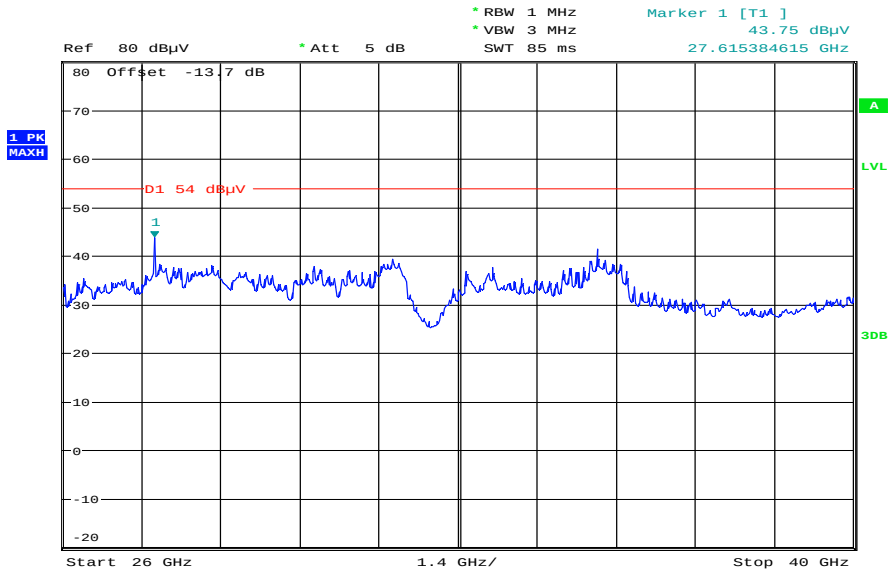
Plot 3: 12 GHz to 18 GHz, 5180 MHz, vertical & horizontal polarization



Plot 4: 18 GHz to 26 GHz, 5180 MHz, vertical & horizontal polarization



Plot 5: 26 GHz to 40 GHz, 5180 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:52:44

Plot 6: 30 MHz to 1 GHz, 5240 MHz, vertical & horizontal polarization

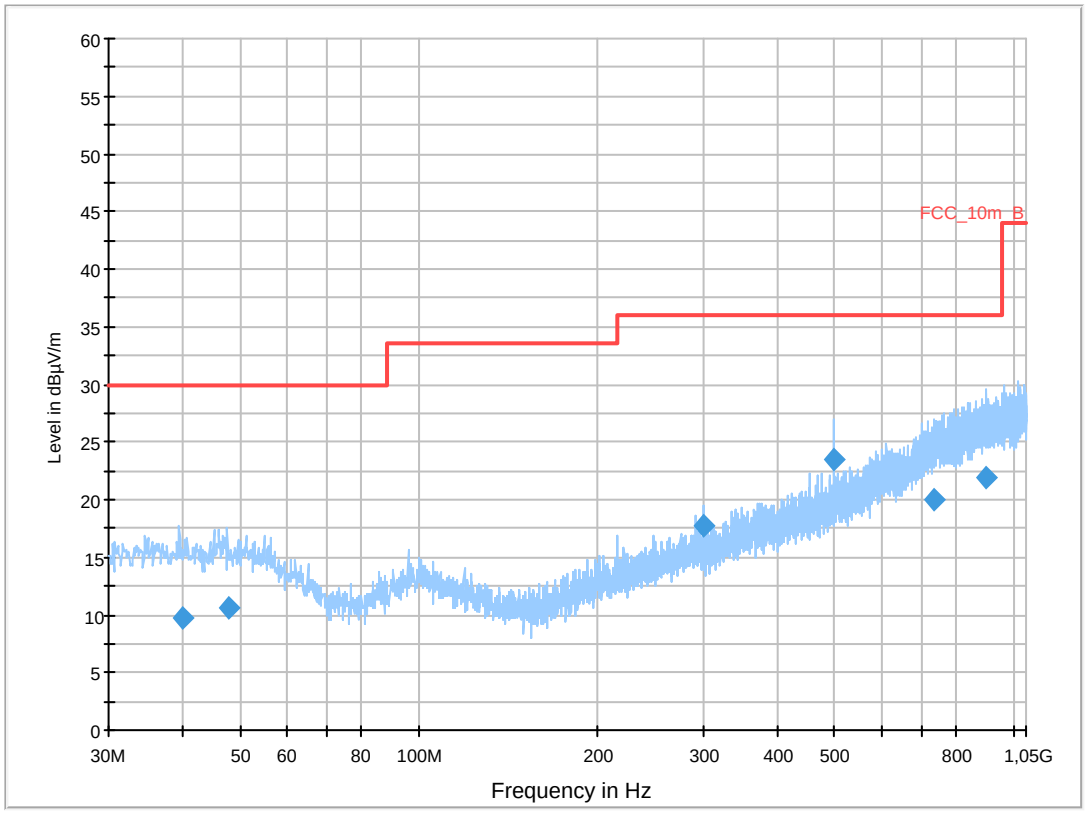
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT20 tx @ 5240MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

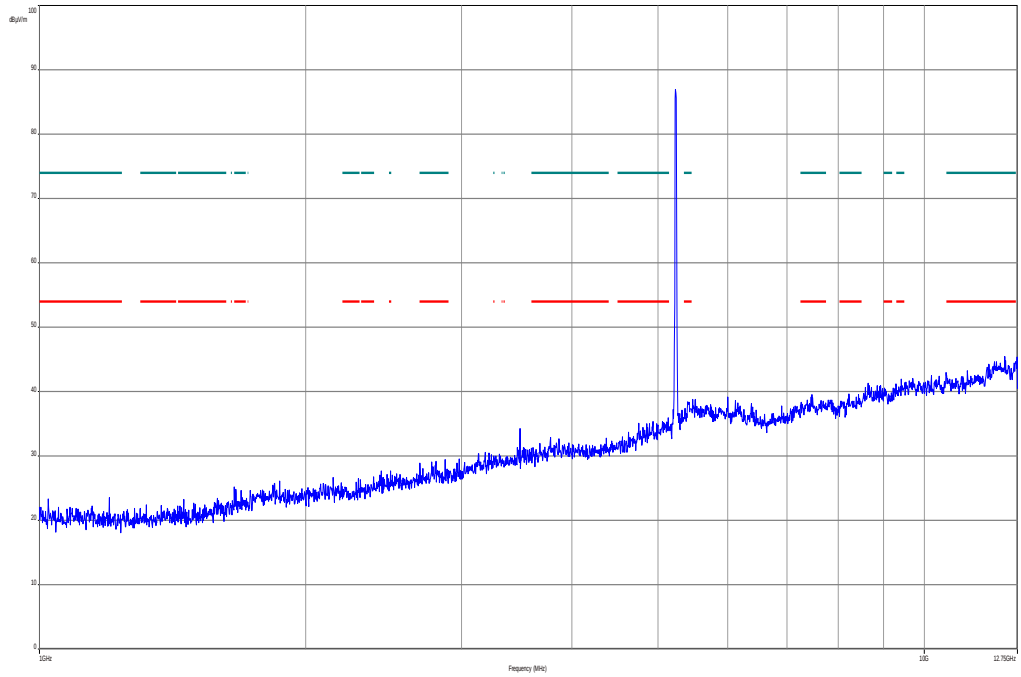
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



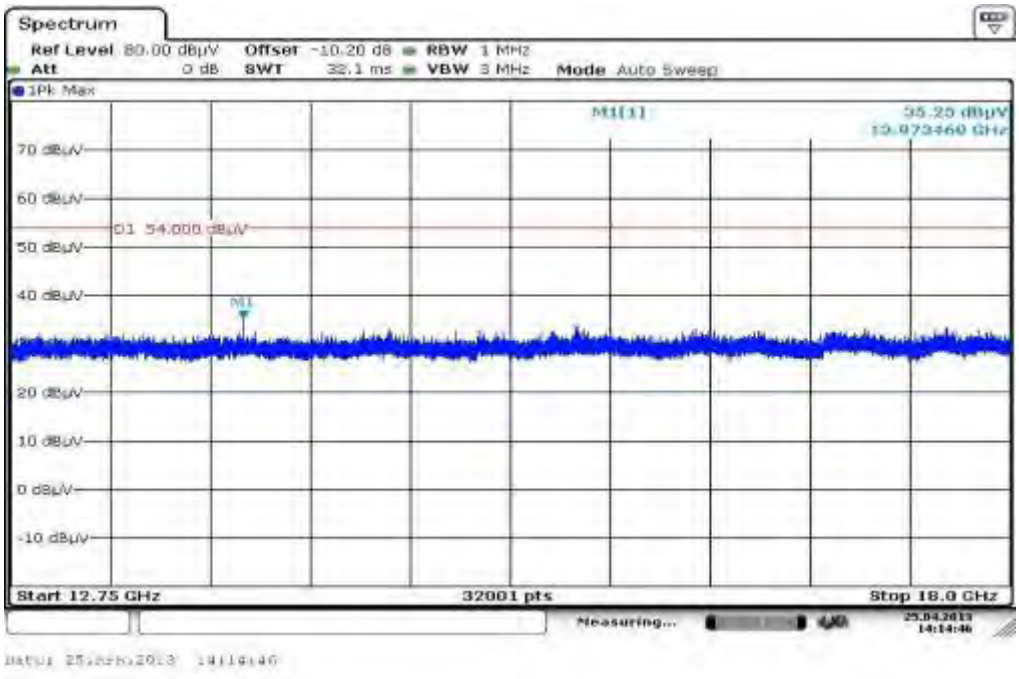
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
39.865800	9.7	1000.0	120.000	170.0	H	10.0	13.4	20.3	30.0	
47.865300	10.5	1000.0	120.000	111.0	V	183.0	13.3	19.5	30.0	
299.984550	17.8	1000.0	120.000	98.0	V	90.0	14.5	18.2	36.0	
500.000250	23.6	1000.0	120.000	98.0	V	190.0	18.7	12.4	36.0	
733.122300	20.0	1000.0	120.000	122.0	H	190.0	23.3	16.0	36.0	
897.591900	21.8	1000.0	120.000	170.0	V	81.0	25.2	14.2	36.0	

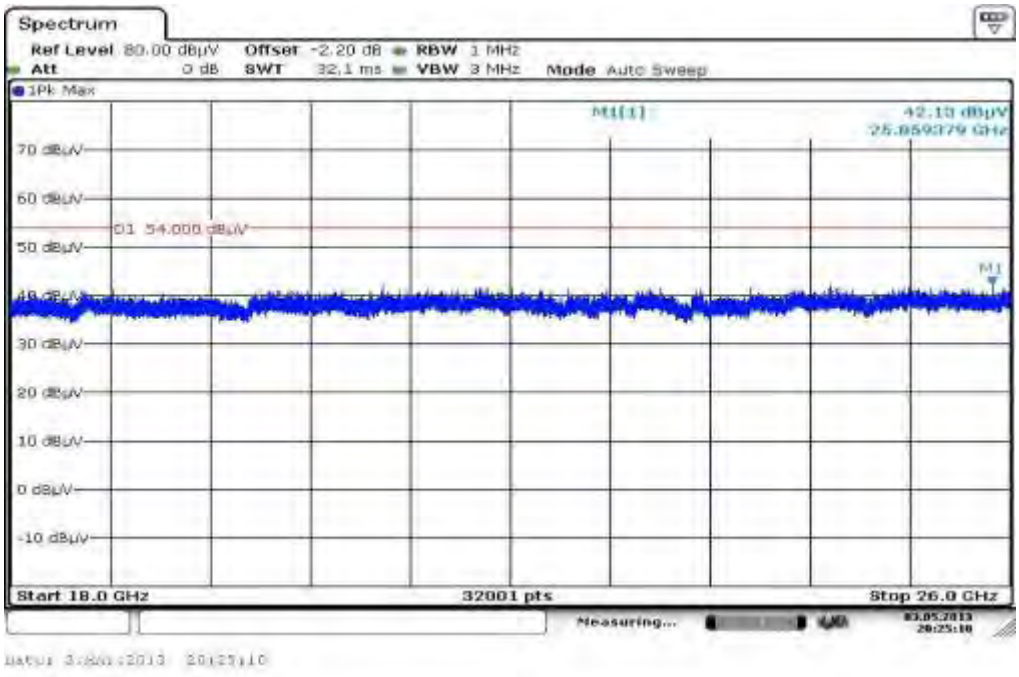
Plot 7: 1 GHz to 12.75 GHz, 5240 MHz, vertical & horizontal polarization



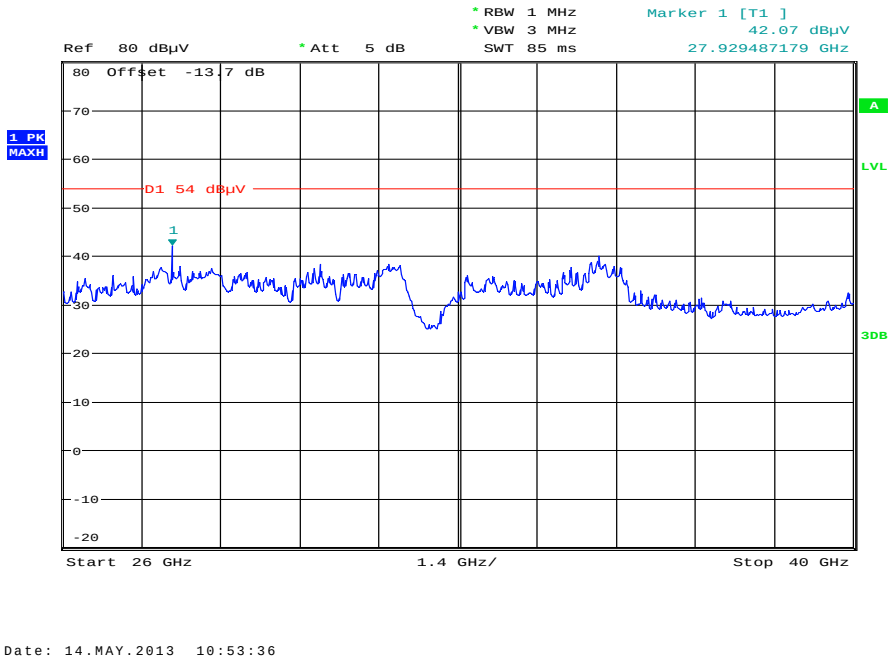
Plot 8: 12 GHz to 18 GHz, 5240 MHz, vertical & horizontal polarization



Plot 9: 18 GHz to 26 GHz, 5240 MHz, vertical & horizontal polarization



Plot 10: 26 GHz to 40 GHz, 5240 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:53:36

Plot 11: 30 MHz to 1 GHz, 5260 MHz, vertical & horizontal polarization

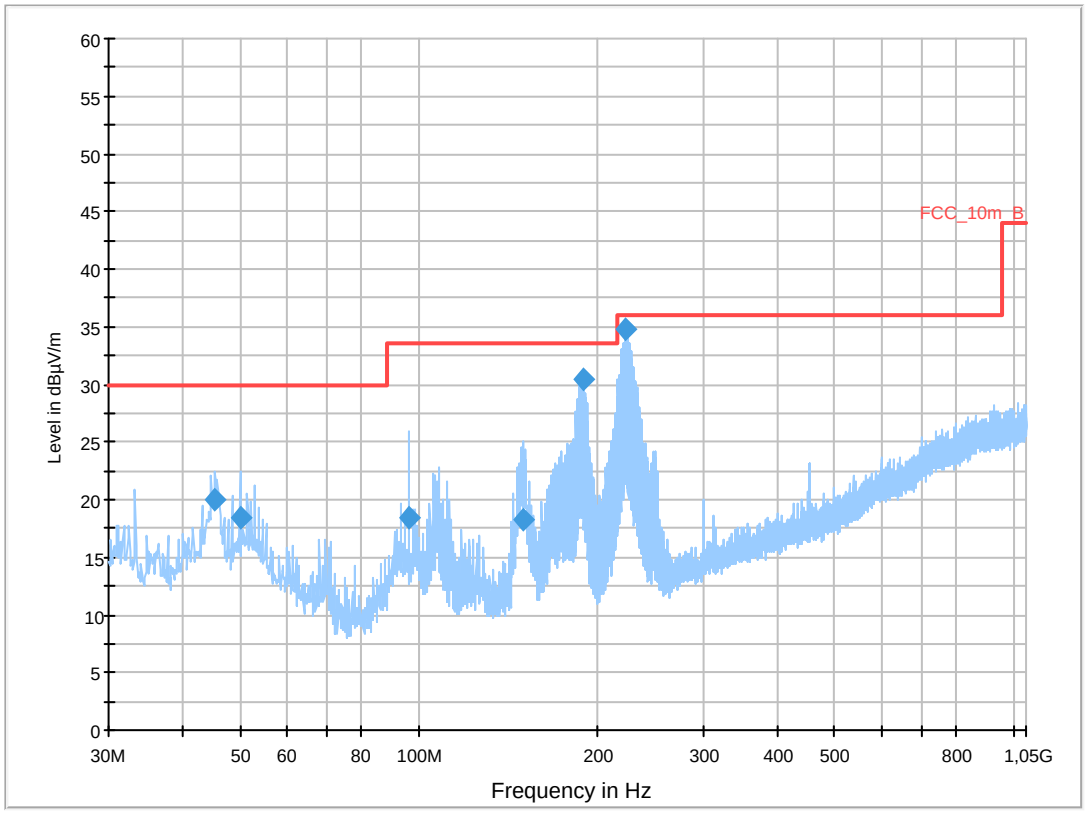
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	eval
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode ch52
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

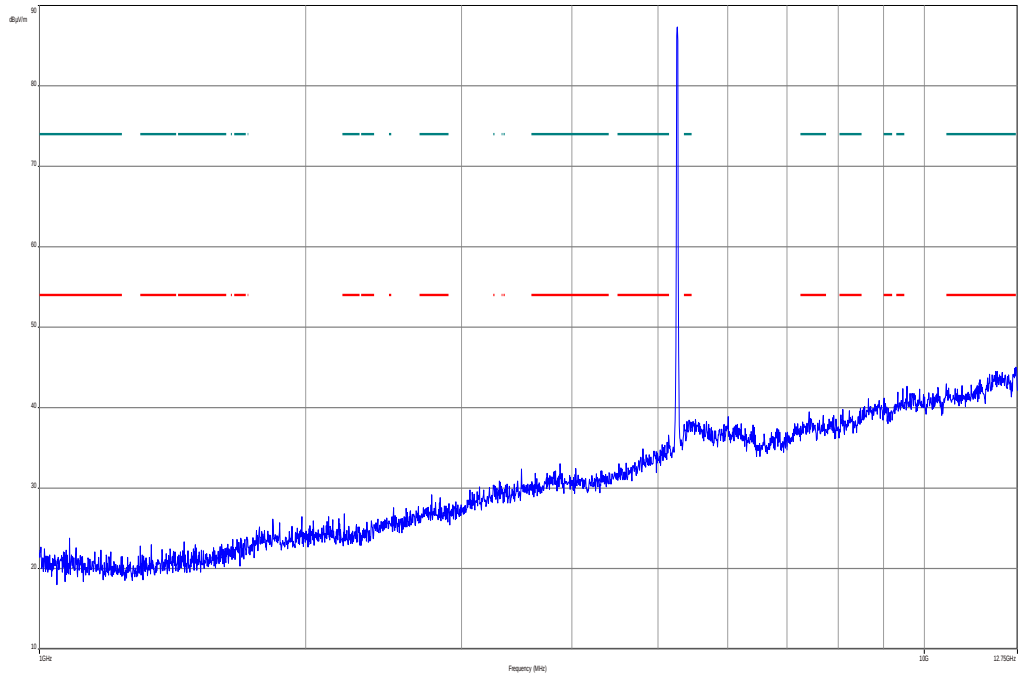
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



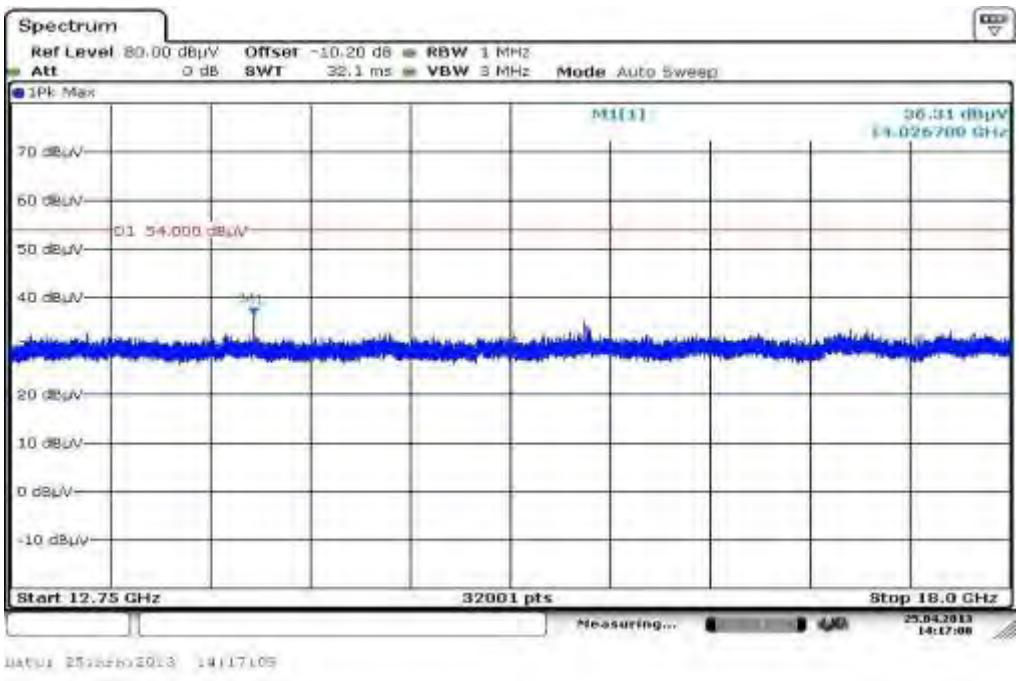
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
45.360000	19.9	1000.0	120.000	98.0	V	89.0	13.3	10.1	30.0	
49.920000	18.5	1000.0	120.000	197.0	V	298.0	13.4	11.5	30.0	
96.000000	18.4	1000.0	120.000	120.0	V	309.0	11.4	15.1	33.5	
149.760000	18.2	1000.0	120.000	144.0	V	0.0	8.9	15.3	33.5	
189.000000	30.4	1000.0	120.000	98.0	V	89.0	11.0	3.1	33.5	
222.960000	34.8	1000.0	120.000	172.0	V	41.0	12.5	1.2	36.0	

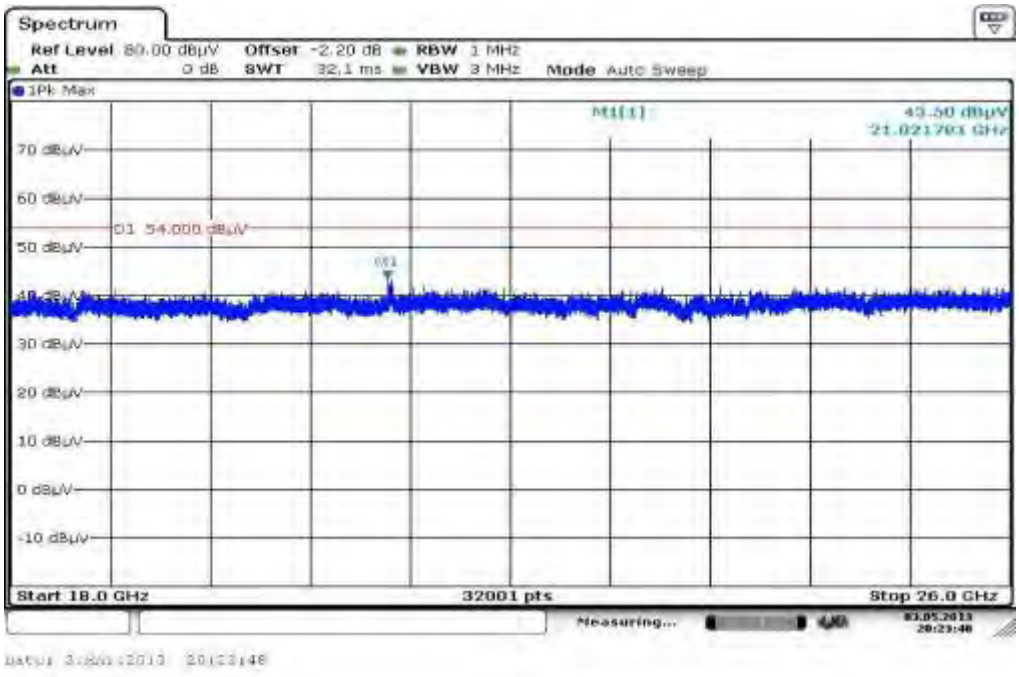
Plot 12: 1 GHz to 12.75 GHz, 5260 MHz, vertical & horizontal polarization



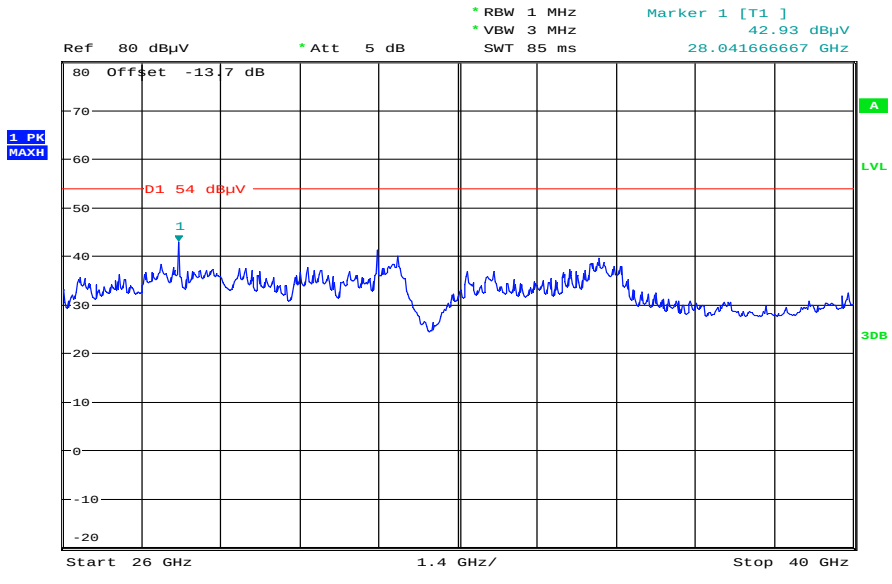
Plot 13: 12 GHz to 18 GHz, 5260 MHz, vertical & horizontal polarization



Plot 14: 18 GHz to 26 GHz, 5260 MHz, vertical & horizontal polarization



Plot 15: 26 GHz to 40 GHz, 5260 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:54:40

Plot 16: 30 MHz to 1 GHz, 5320 MHz, vertical & horizontal polarization

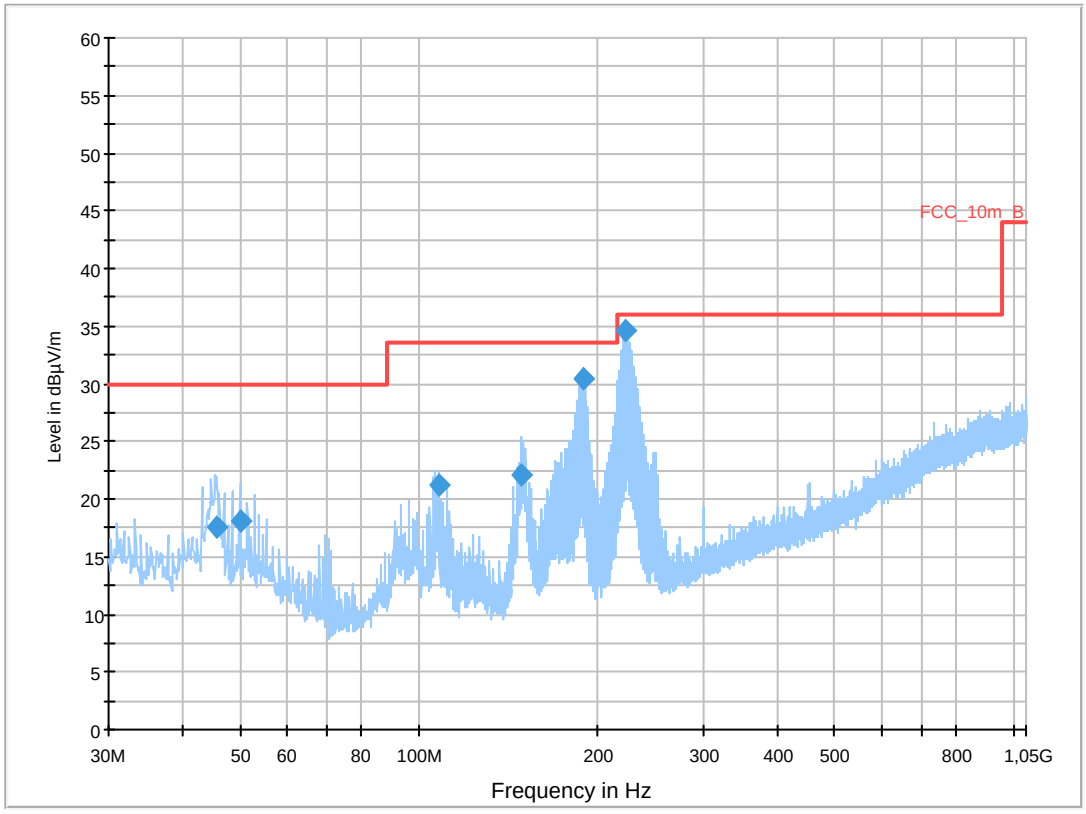
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	eval
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode ch64
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup: Electric Field (NOS)
Level Unit: dBµV/m

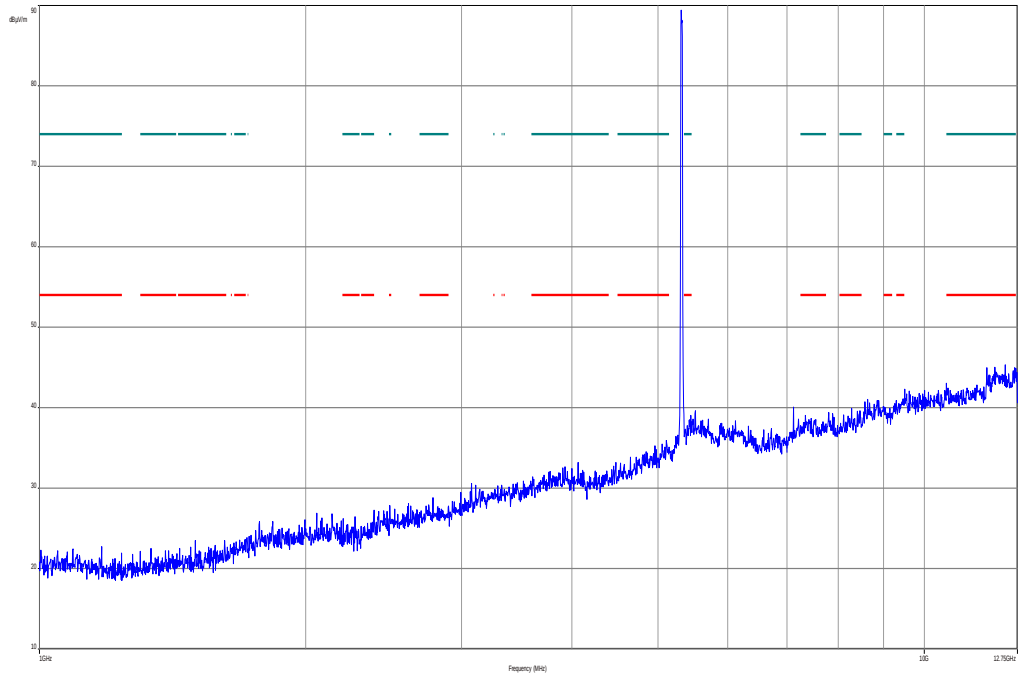
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



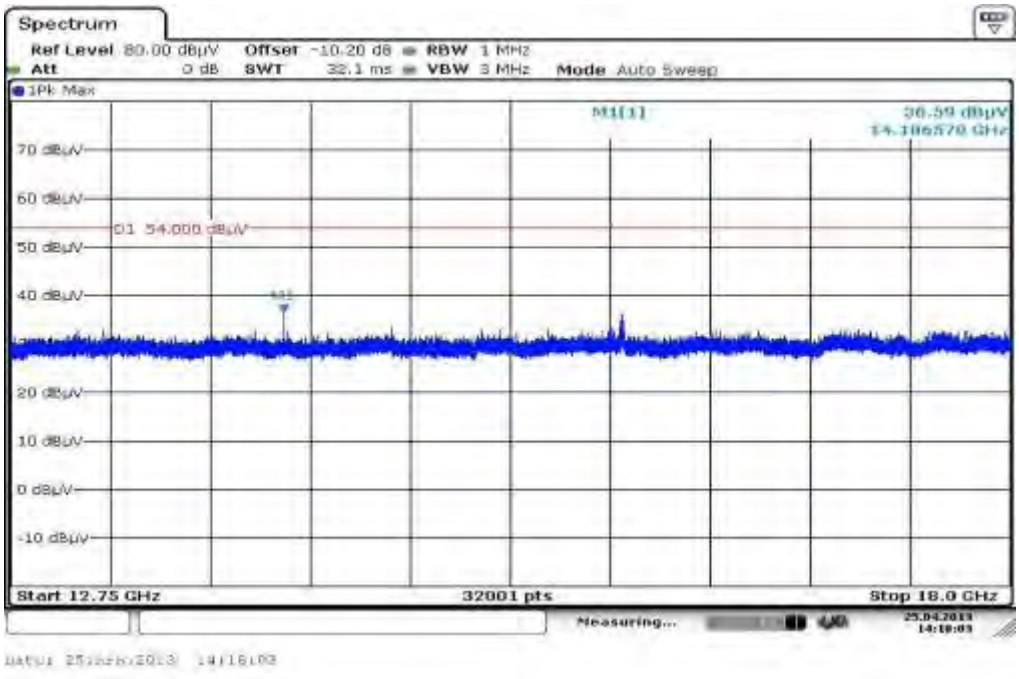
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
45.480000	17.5	1000.0	120.000	98.0	V	0.0	13.3	12.5	30.0	
49.920000	18.1	1000.0	120.000	209.0	V	111.0	13.4	11.9	30.0	
108.120000	21.2	1000.0	120.000	185.0	V	130.0	11.2	12.3	33.5	
148.200000	22.1	1000.0	120.000	104.0	V	173.0	8.9	11.4	33.5	
189.000000	30.4	1000.0	120.000	98.0	V	68.0	11.0	3.1	33.5	
222.240000	34.6	1000.0	120.000	172.0	V	27.0	12.5	1.4	36.0	

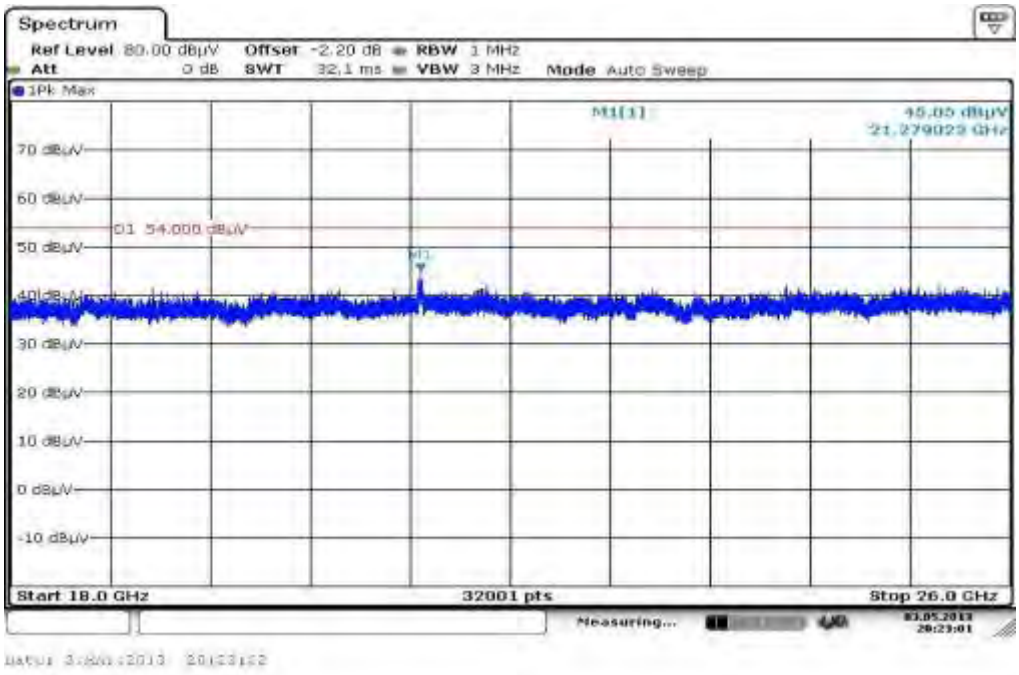
Plot 17: 1 GHz to 12.75 GHz, 5320 MHz, vertical & horizontal polarization



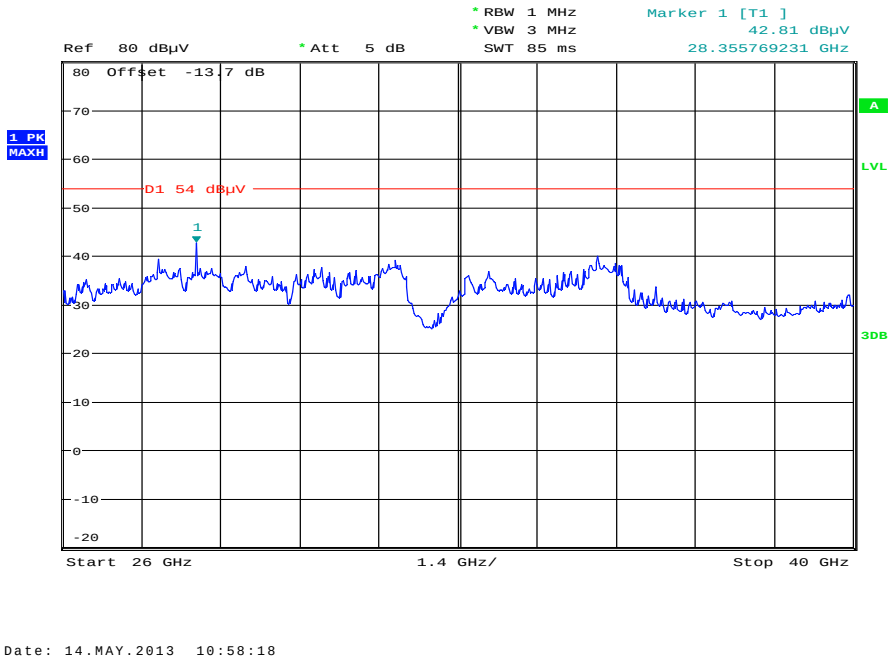
Plot 18: 12 GHz to 18 GHz, 5320 MHz, vertical & horizontal polarization



Plot 19: 18 GHz to 26 GHz, 5320 MHz, vertical & horizontal polarization



Plot 20: 26 GHz to 40 GHz, 5320 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:58:18

Plot 21: 30 MHz to 1 GHz, 5500 MHz, vertical & horizontal polarization

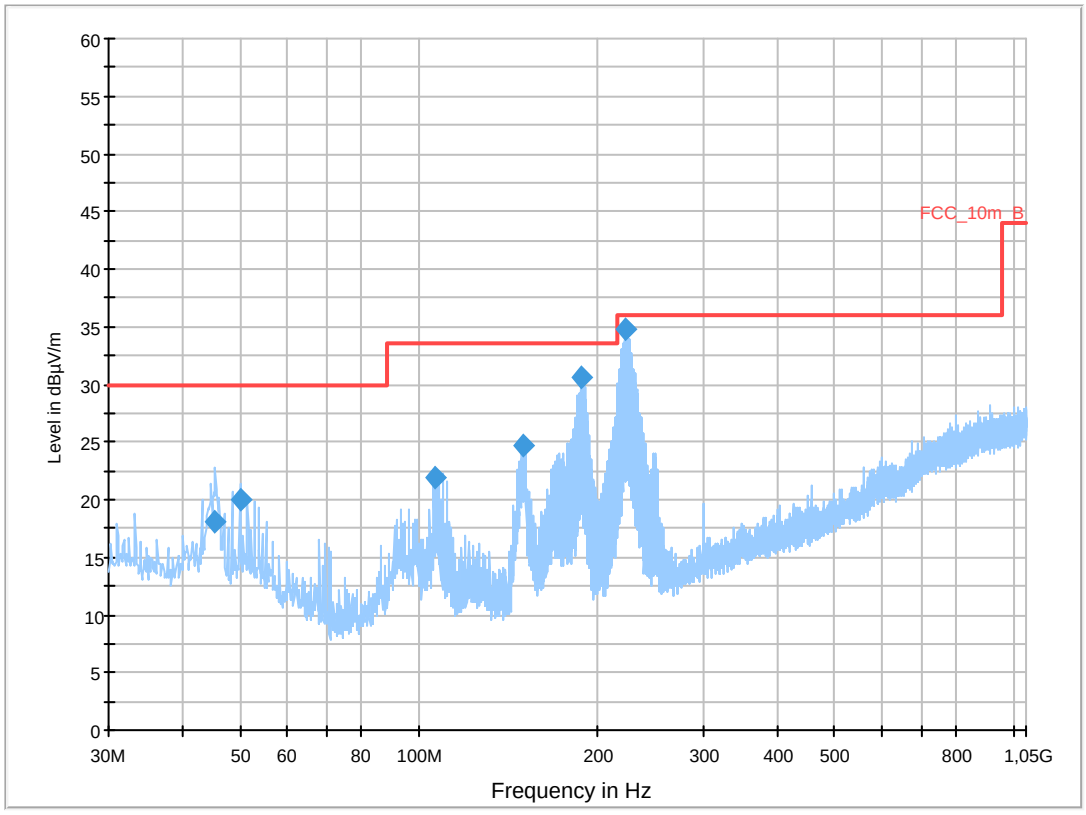
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	eval
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT20 ch100
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

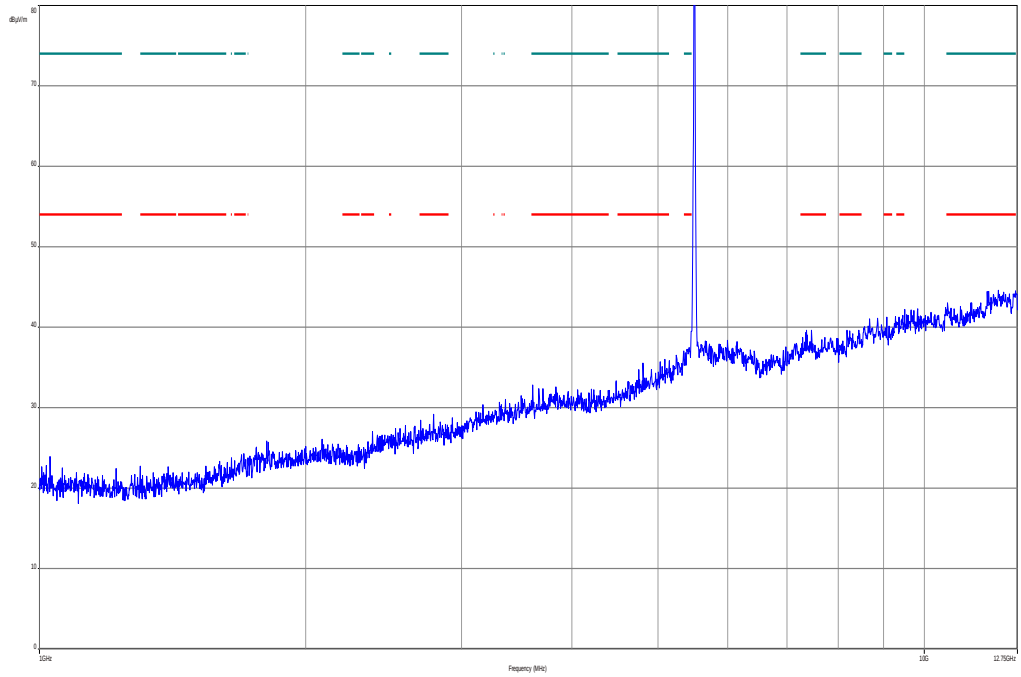
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



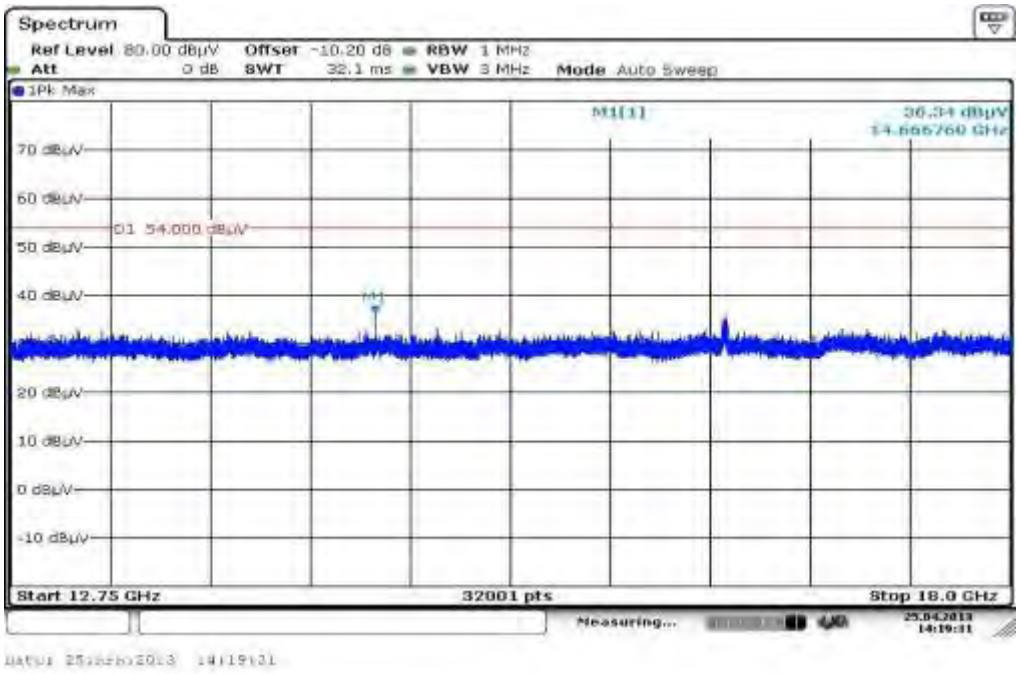
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
45.360000	18.1	1000.0	120.000	210.0	V	344.0	13.3	11.9	30.0	
49.920000	20.0	1000.0	120.000	98.0	V	352.0	13.4	10.0	30.0	
106.560000	21.8	1000.0	120.000	111.0	V	144.0	11.3	11.7	33.5	
149.640000	24.7	1000.0	120.000	110.0	V	290.0	8.9	8.8	33.5	
187.440000	30.6	1000.0	120.000	98.0	V	13.0	10.9	2.9	33.5	
222.240000	34.7	1000.0	120.000	145.0	V	35.0	12.5	1.3	36.0	

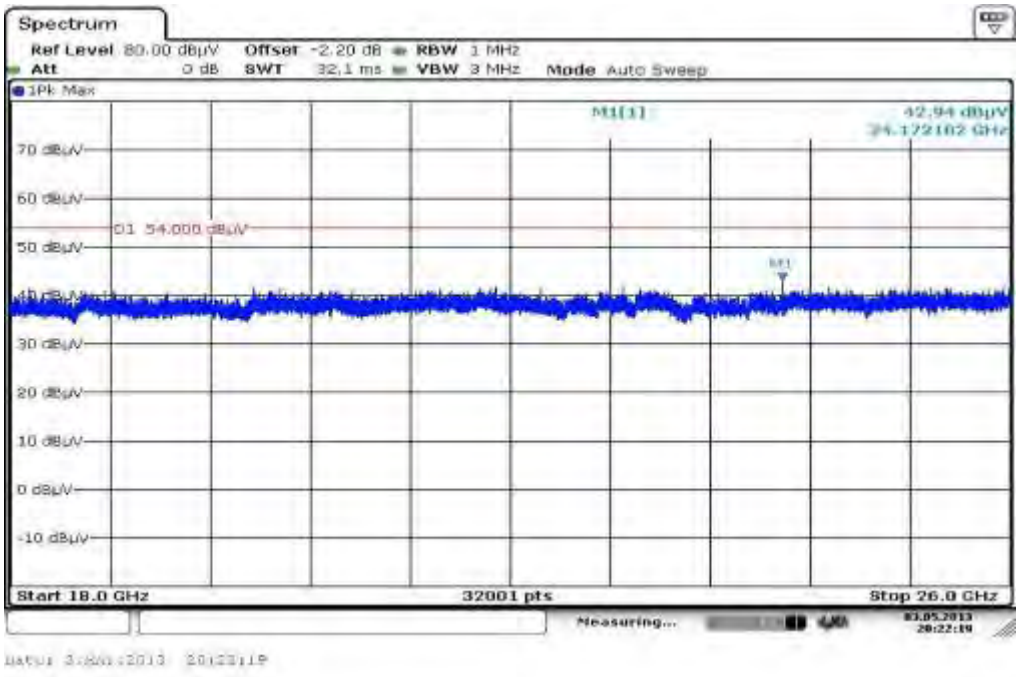
Plot 22: 1 GHz to 12.75 GHz, 5500 MHz, vertical & horizontal polarization



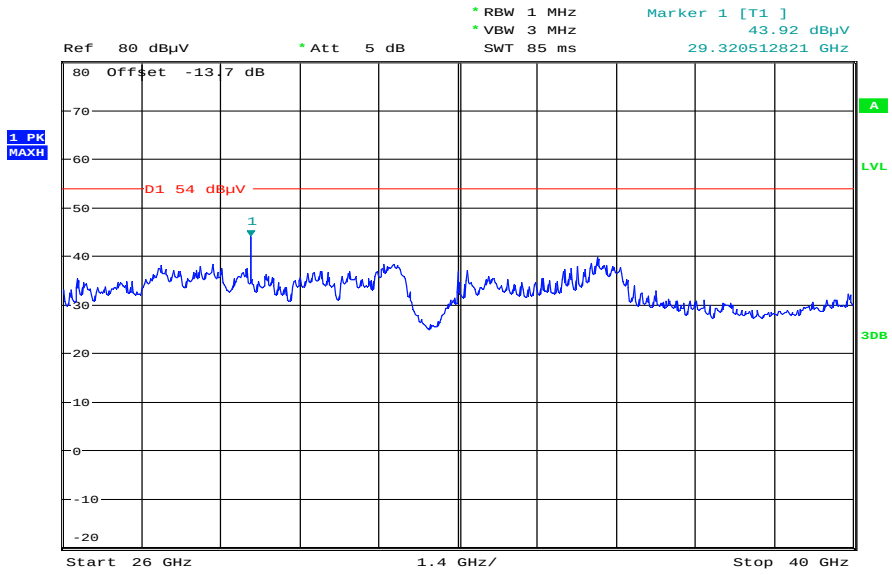
Plot 23: 12 GHz to 18 GHz, 5500 MHz, vertical & horizontal polarization



Plot 24: 18 GHz to 26 GHz, 5500 MHz, vertical & horizontal polarization



Plot 25: 26 GHz to 40 GHz, 5500 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 10:59:13

Plot 26: 30 MHz to 1 GHz, 5600 MHz, vertical & horizontal polarization

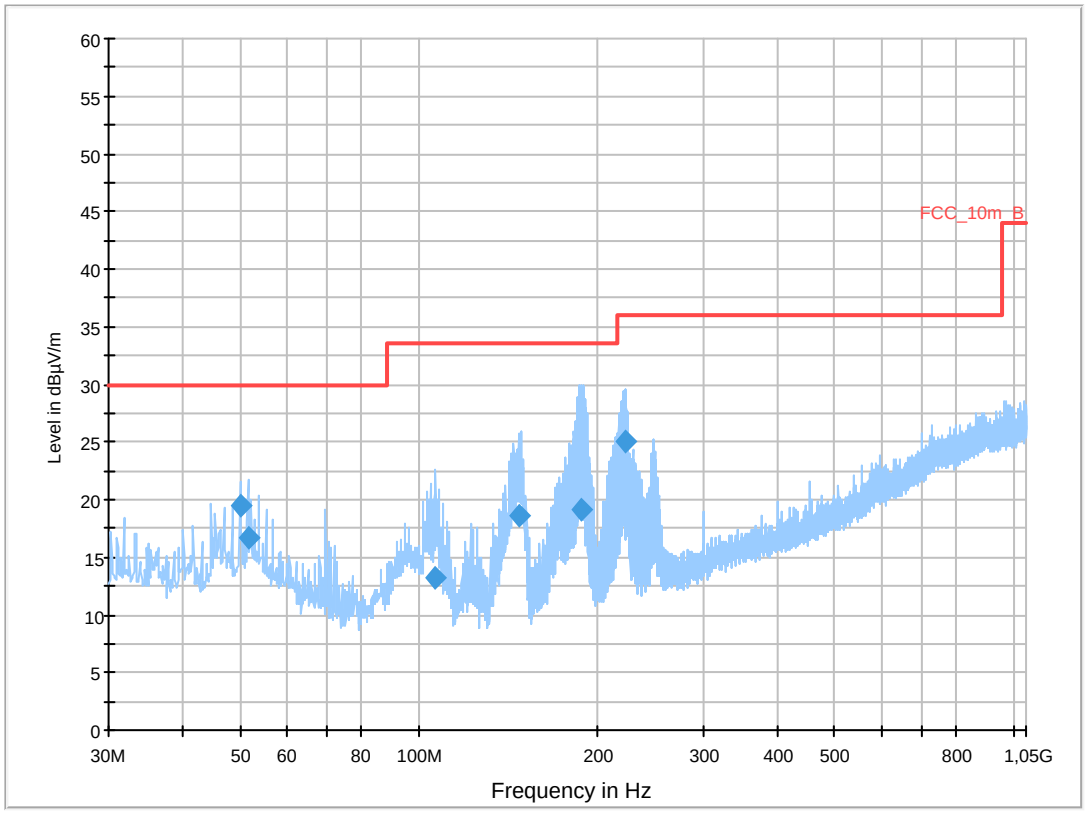
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	eval
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT20 ch120
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

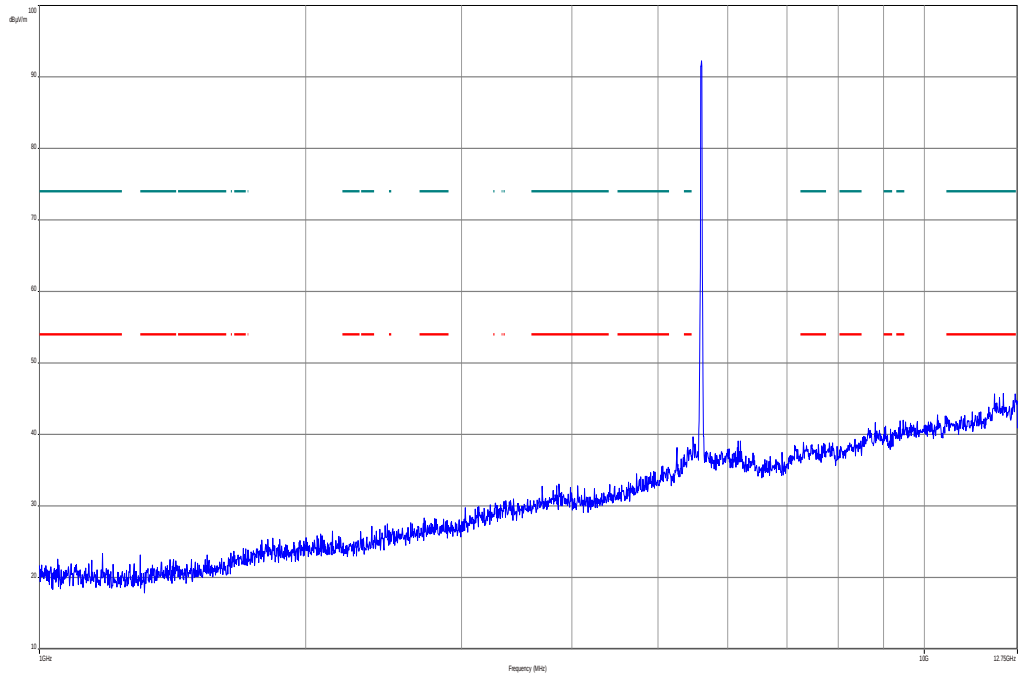
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



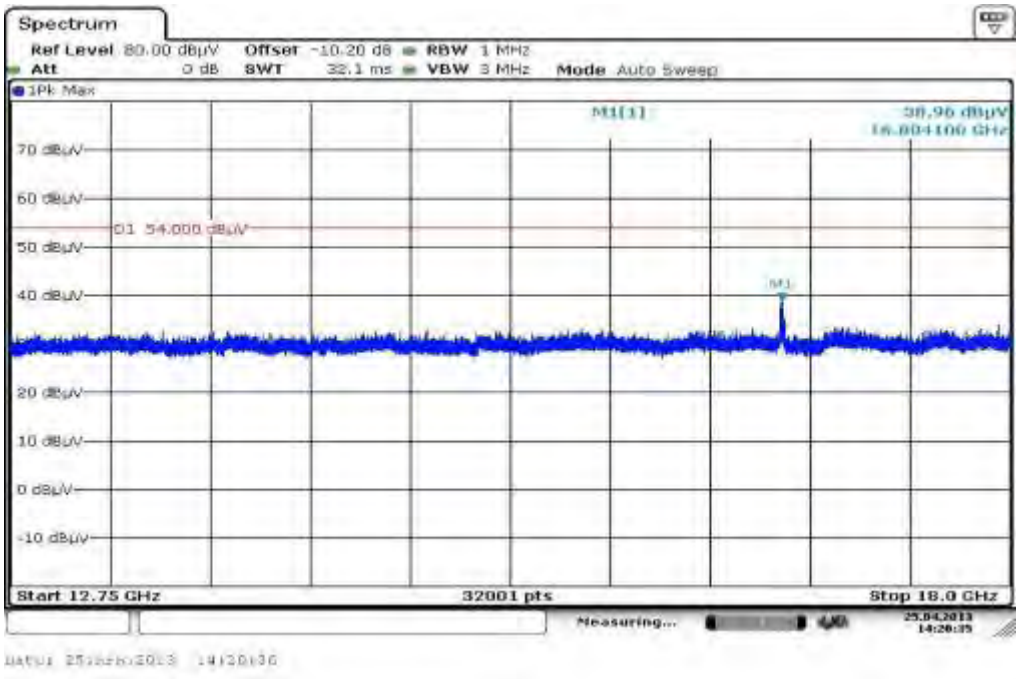
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
49.920000	19.5	1000.0	120.000	98.0	V	223.0	13.4	10.5	30.0	
51.480000	16.7	1000.0	120.000	104.0	V	0.0	13.2	13.3	30.0	
106.680000	13.2	1000.0	120.000	132.0	V	183.0	11.3	20.3	33.5	
146.760000	18.6	1000.0	120.000	110.0	V	59.0	8.8	14.9	33.5	
186.840000	19.1	1000.0	120.000	98.0	V	33.0	10.9	14.4	33.5	
222.360000	25.1	1000.0	120.000	249.0	V	0.0	12.5	10.9	36.0	

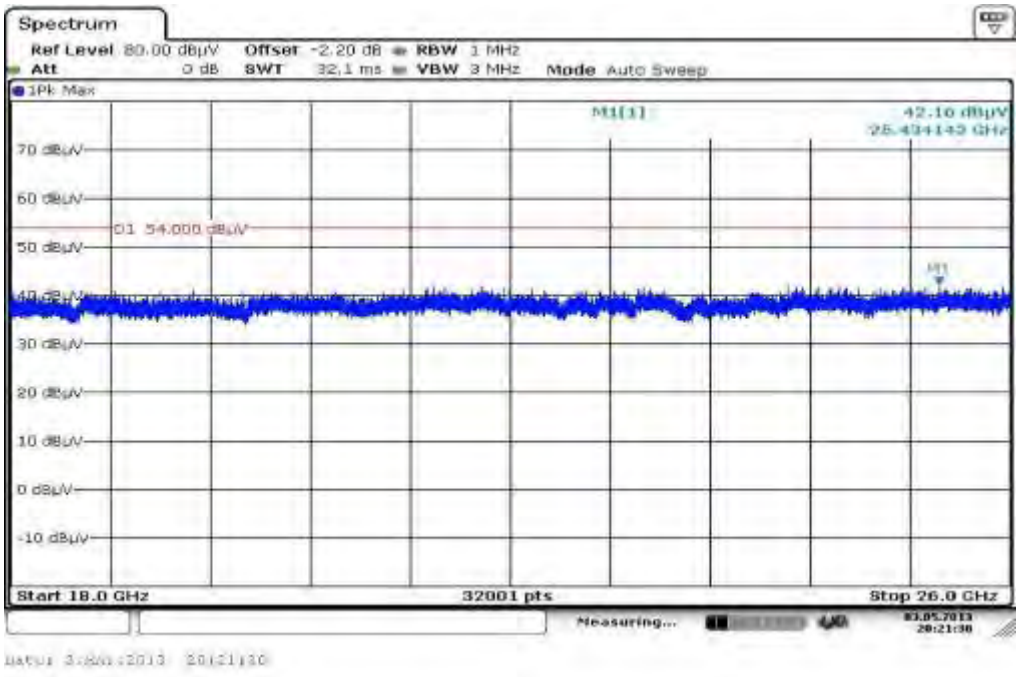
Plot 27: 1 GHz to 12.75 GHz, 5600 MHz, vertical & horizontal polarization



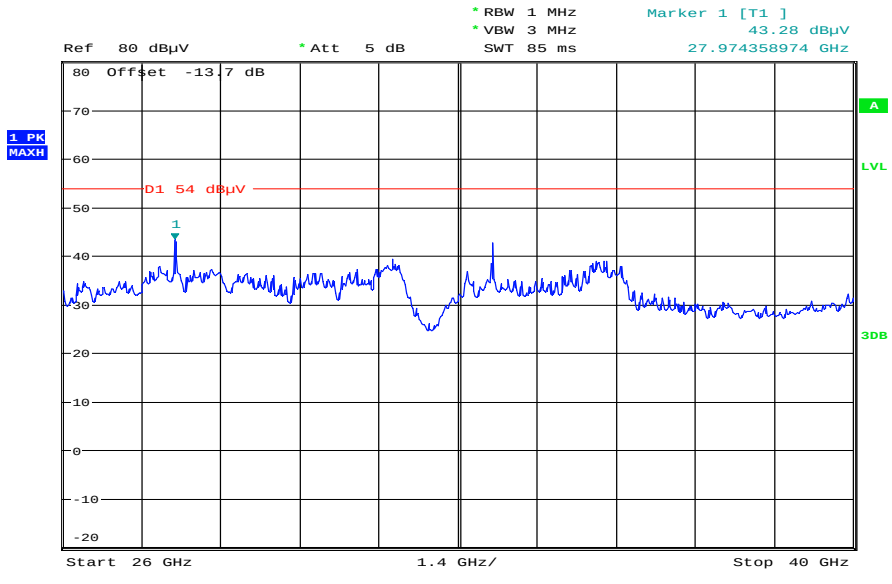
Plot 28: 12 GHz to 18 GHz, 5600 MHz, vertical & horizontal polarization



Plot 29: 18 GHz to 26 GHz, 5600 MHz, vertical & horizontal polarization



Plot 30: 26 GHz to 40 GHz, 5600 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 11:00:04

Plot 31: 30 MHz to 1 GHz, 5700 MHz, vertical & horizontal polarization

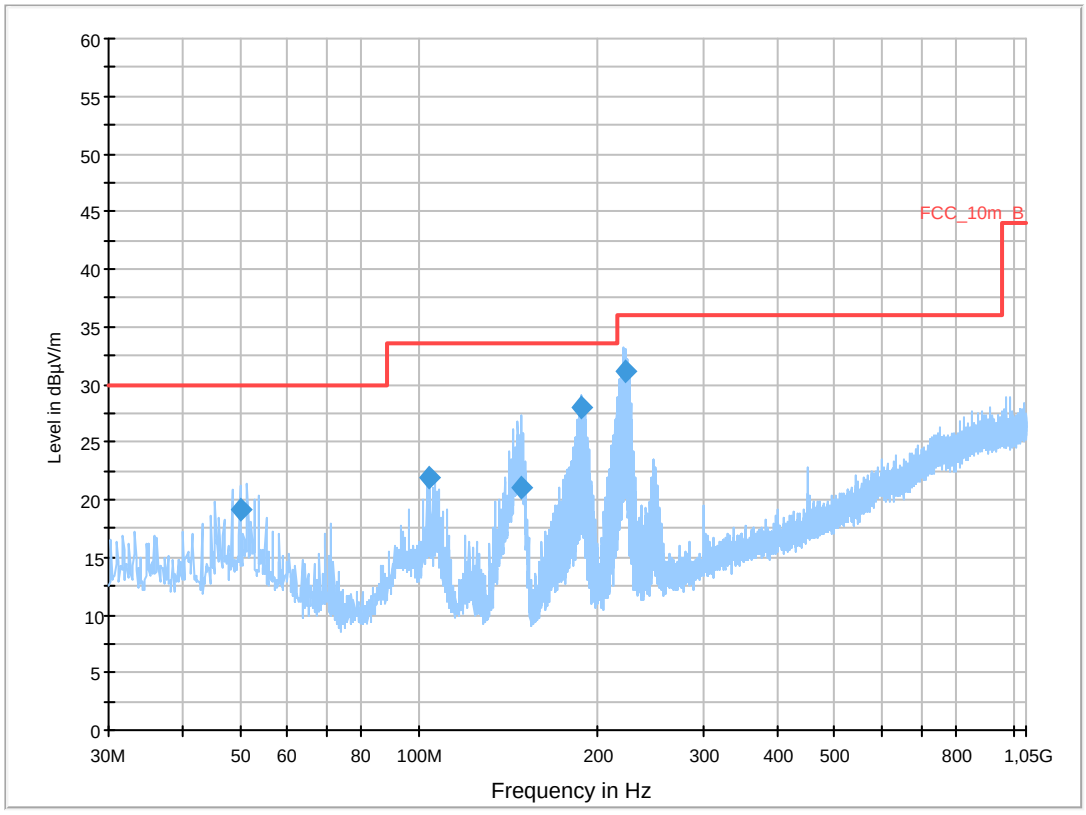
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	eval
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT20 ch140
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

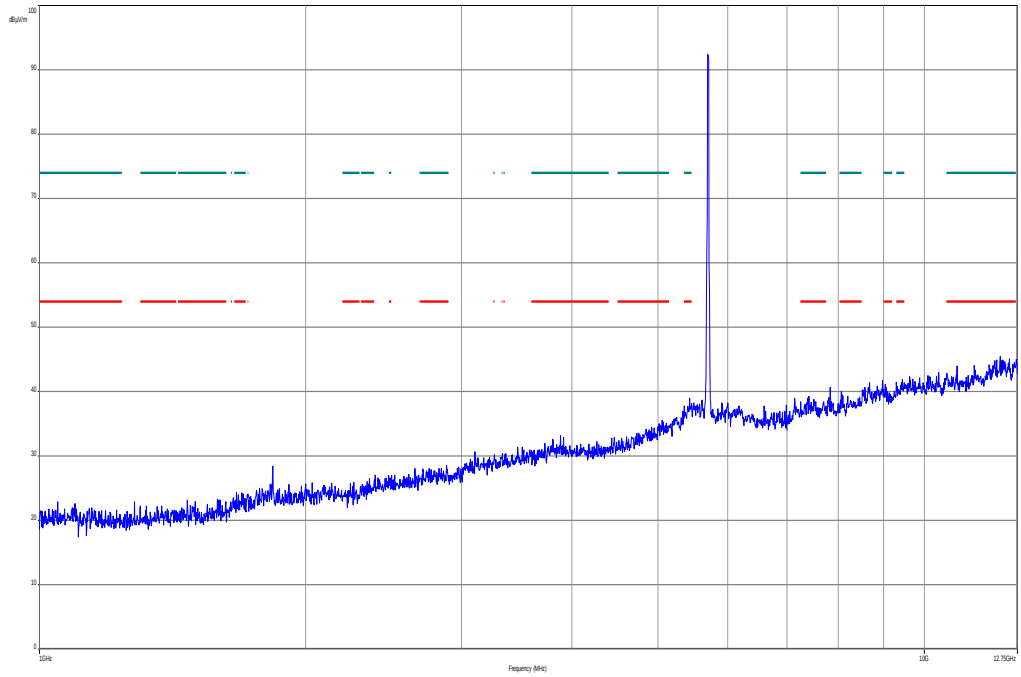
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



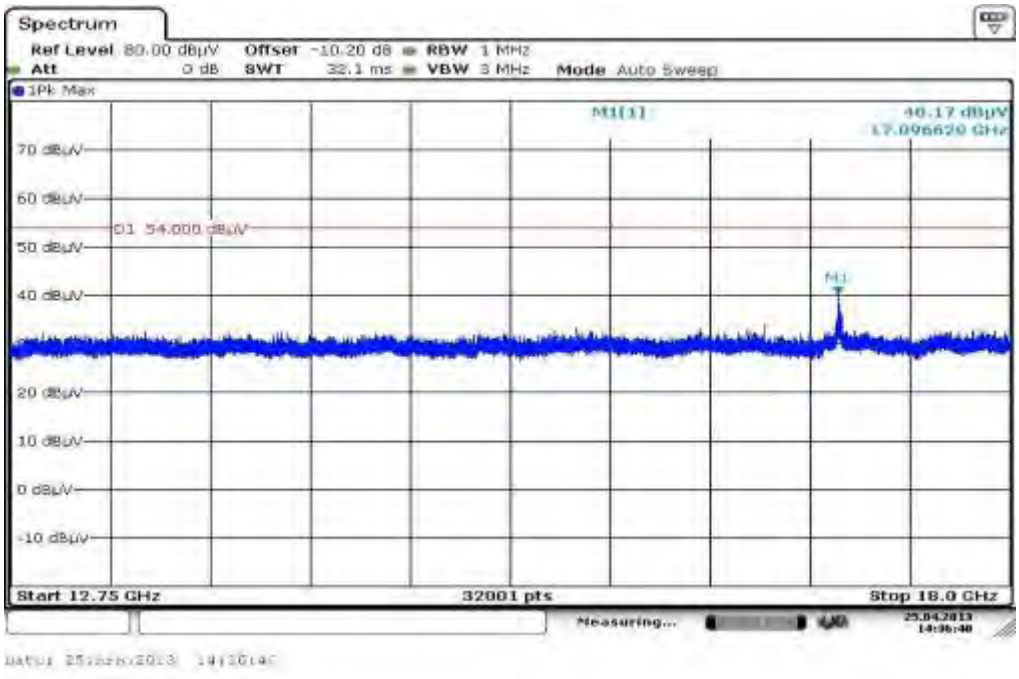
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
49.920000	19.1	1000.0	120.000	98.0	V	298.0	13.4	10.9	30.0	
104.280000	21.8	1000.0	120.000	120.0	V	308.0	11.5	11.7	33.5	
148.200000	21.1	1000.0	120.000	98.0	V	0.0	8.9	12.4	33.5	
187.440000	28.1	1000.0	120.000	98.0	V	71.0	10.9	5.4	33.5	
222.240000	31.1	1000.0	120.000	98.0	V	0.0	12.5	4.9	36.0	

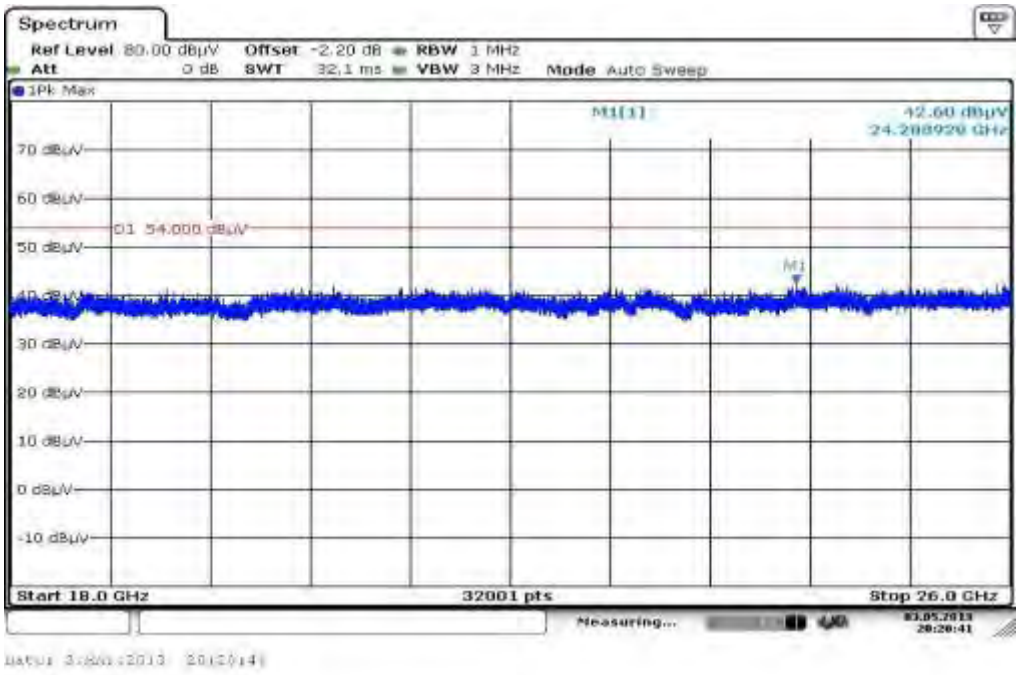
Plot 32: 1 GHz to 12.75 GHz, 5700 MHz, vertical & horizontal polarization



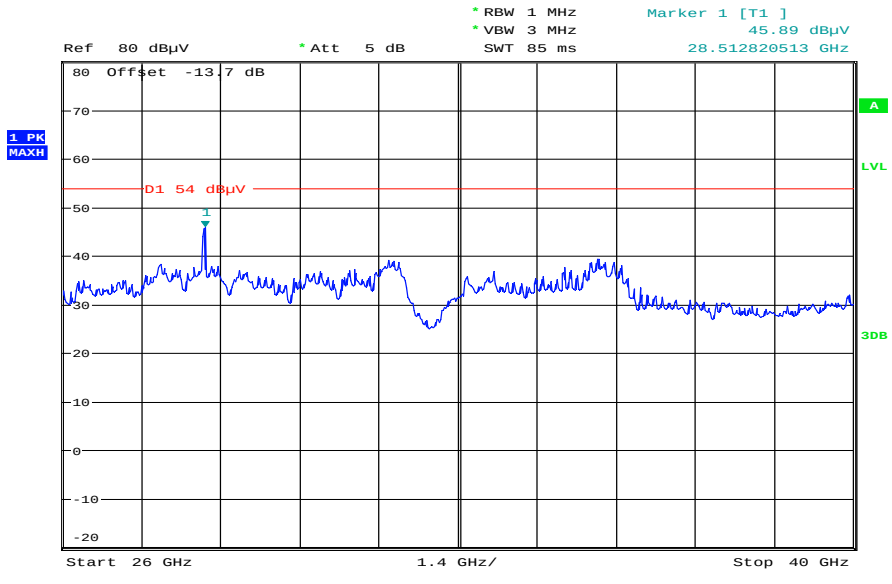
Plot 33: 12 GHz to 18 GHz, 5700 MHz, vertical & horizontal polarization



Plot 34: 18 GHz to 26 GHz, 5700 MHz, vertical & horizontal polarization



Plot 35: 26 GHz to 40 GHz, 5700 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 11:01:21

Plots: OFDM / n – mode HT40

Plot 1: 30 MHz to 1 GHz, 5190 MHz, vertical & horizontal polarization

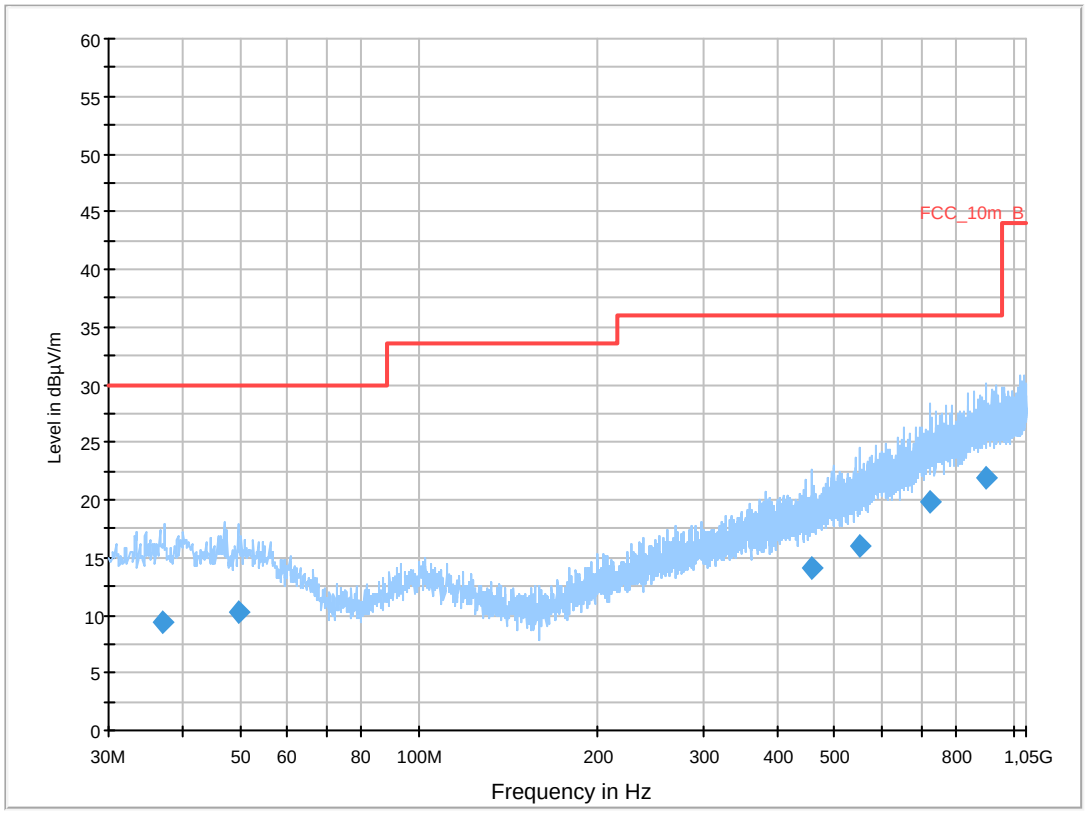
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	eval 2
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT 40 tx @5190 MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

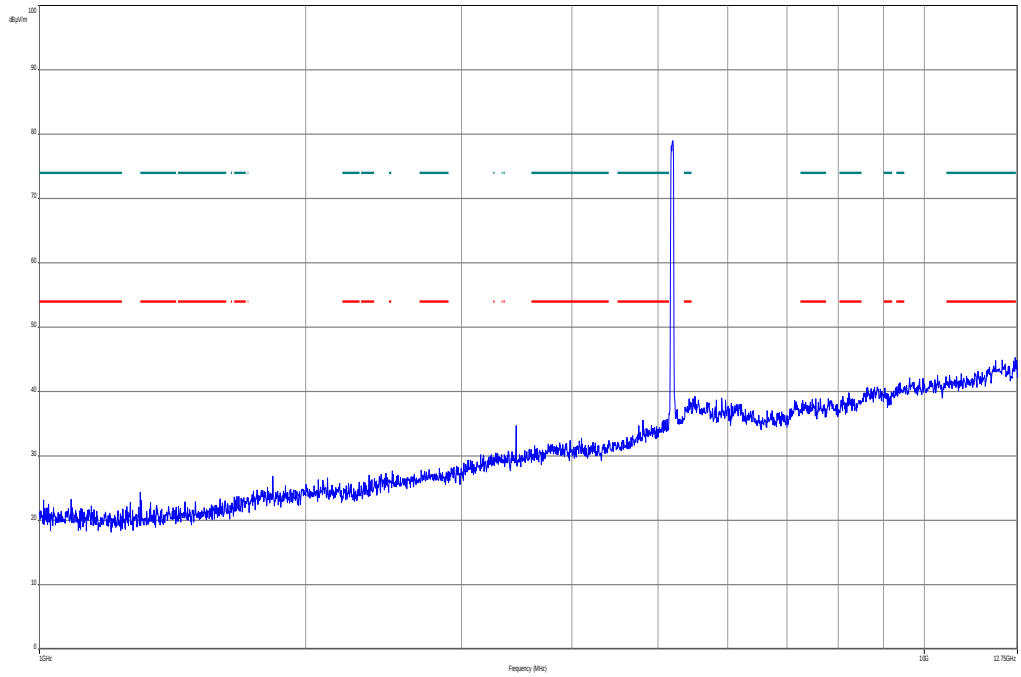
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



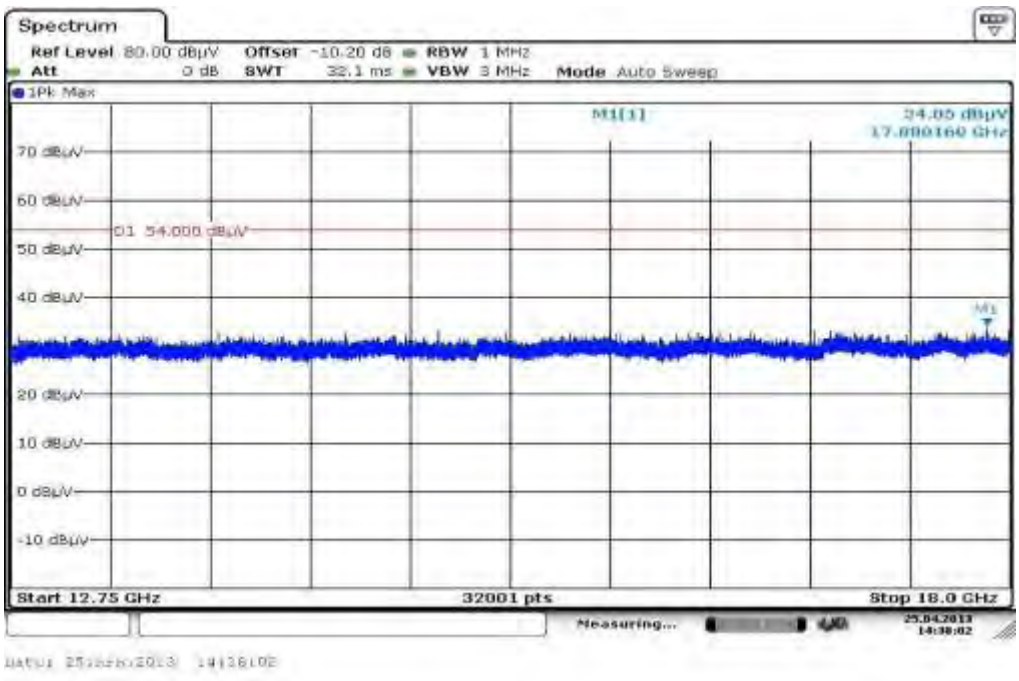
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
37.009800	9.3	1000.0	120.000	147.0	H	270.0	13.2	20.7	30.0	
49.763700	10.2	1000.0	120.000	98.0	V	190.0	13.4	19.8	30.0	
457.873800	14.1	1000.0	120.000	122.0	H	280.0	17.8	21.9	36.0	
552.931350	16.1	1000.0	120.000	120.0	H	178.0	19.4	19.9	36.0	
720.627150	19.8	1000.0	120.000	159.0	H	90.0	23.0	16.2	36.0	
896.063400	21.9	1000.0	120.000	170.0	H	190.0	25.2	14.1	36.0	

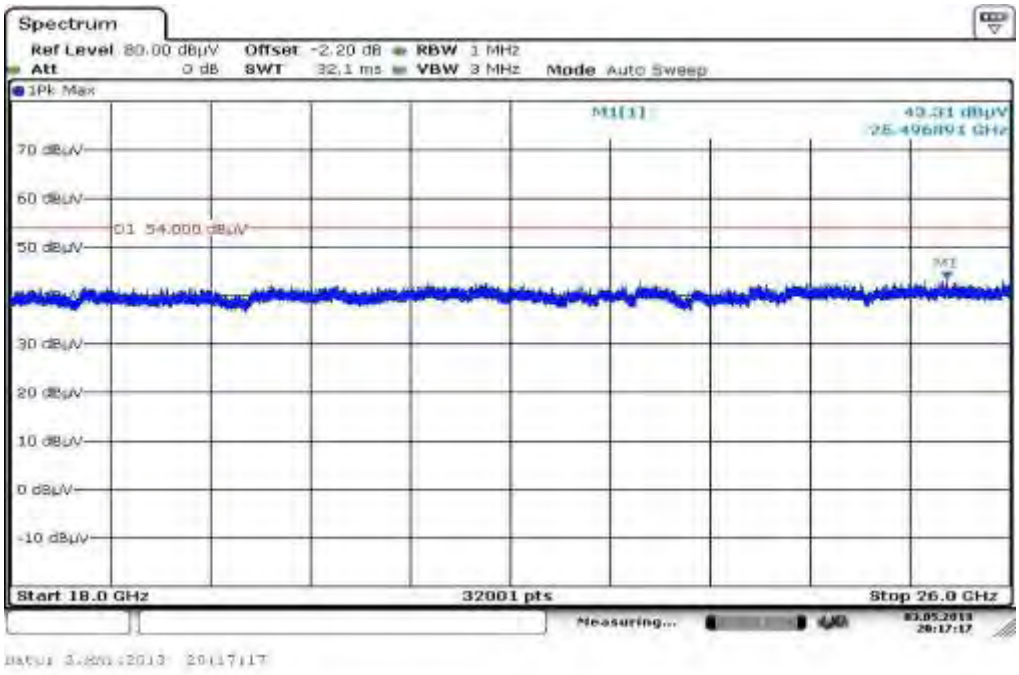
Plot 2: 1 GHz to 12.75 GHz, 5190 MHz, vertical & horizontal polarization



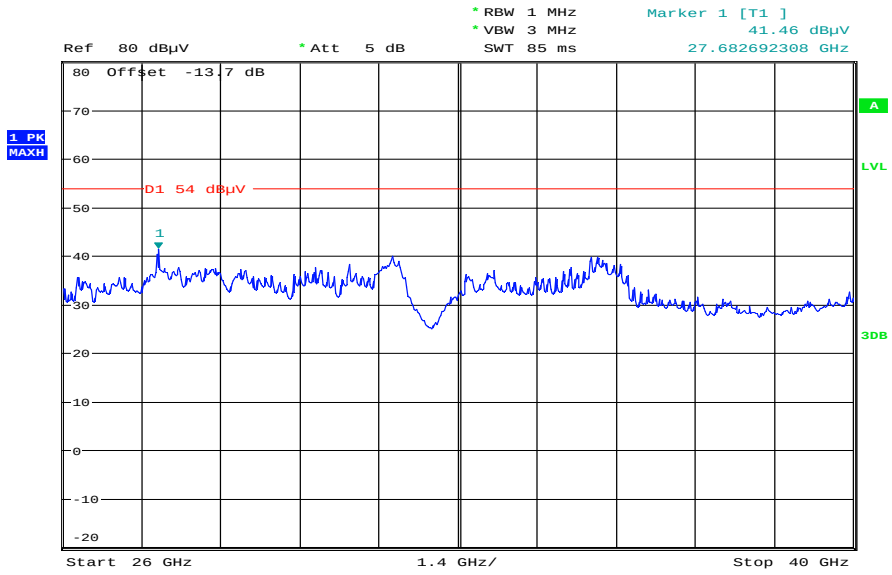
Plot 3: 12 GHz to 18 GHz, 5190 MHz, vertical & horizontal polarization



Plot 4: 18 GHz to 26 GHz, 5190 MHz, vertical & horizontal polarization



Plot 5: 26 GHz to 40 GHz, 5190 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 11:06:02

Plot 6: 30 MHz to 1 GHz, 5230 MHz, vertical & horizontal polarization

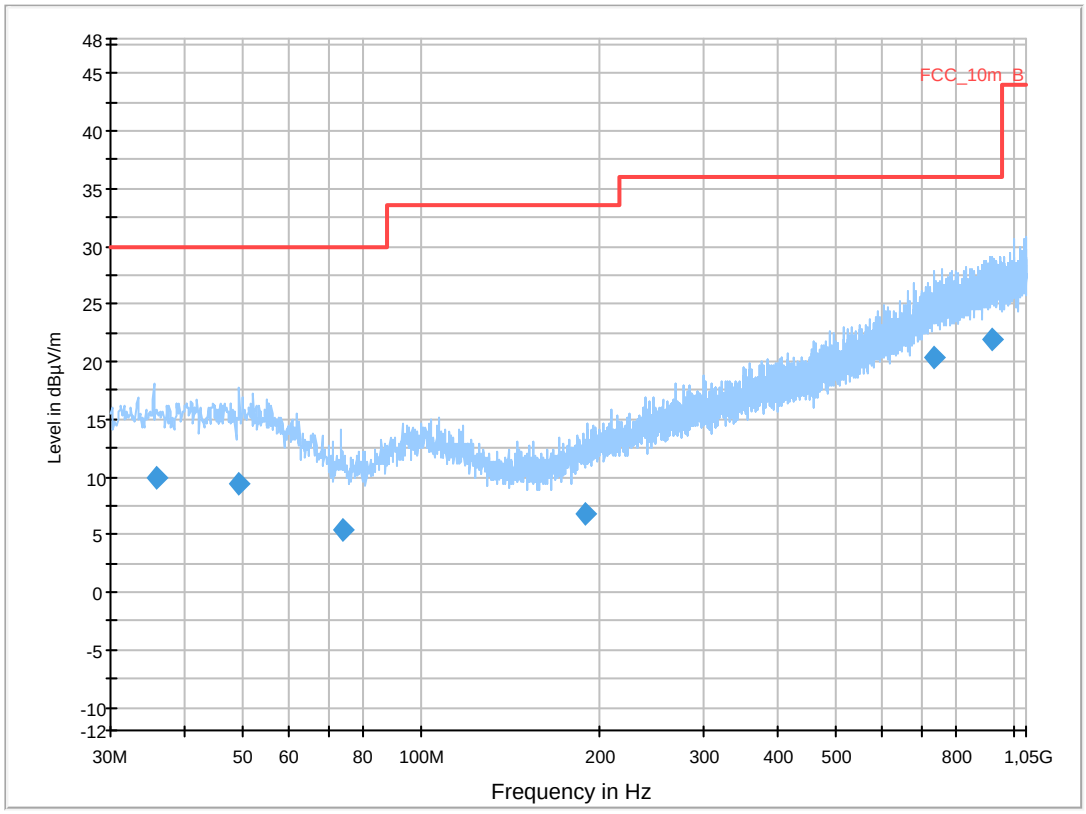
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	eval 2
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT 40 tx @5220 MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

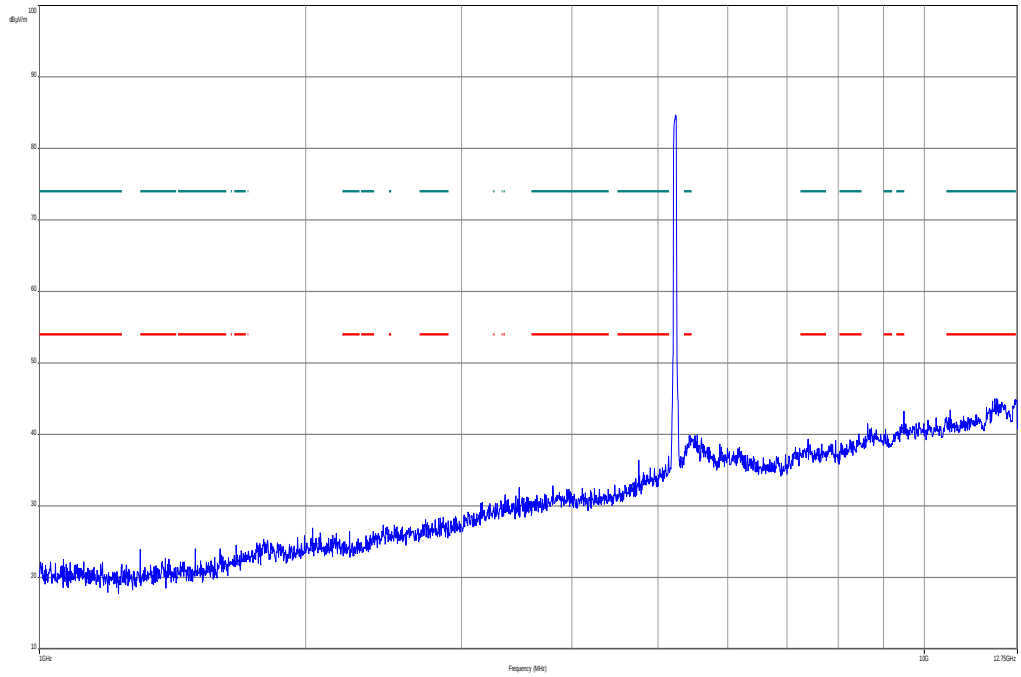
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



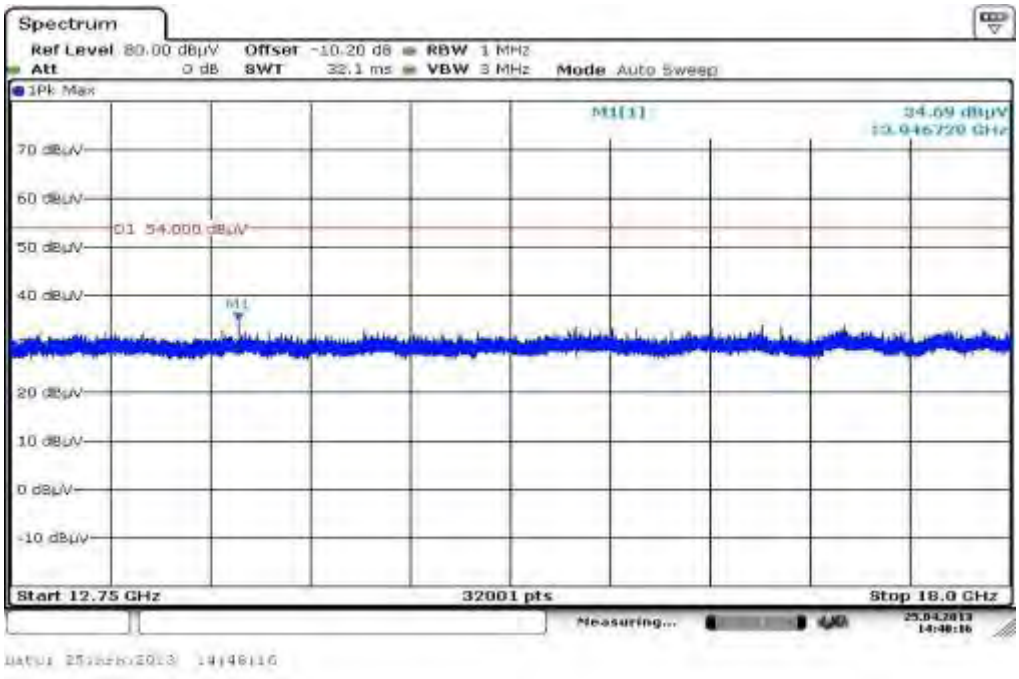
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
35.930250	9.9	1000.0	120.000	170.0	H	100.0	13.1	20.1	30.0	
49.522050	9.4	1000.0	120.000	105.0	V	100.0	13.4	20.6	30.0	
73.911750	5.4	1000.0	120.000	170.0	H	88.0	9.2	24.6	30.0	
190.221450	6.8	1000.0	120.000	170.0	H	100.0	11.1	26.7	33.5	
733.813350	20.3	1000.0	120.000	170.0	H	10.0	23.3	15.7	36.0	
917.719950	21.8	1000.0	120.000	170.0	V	100.0	25.3	14.2	36.0	

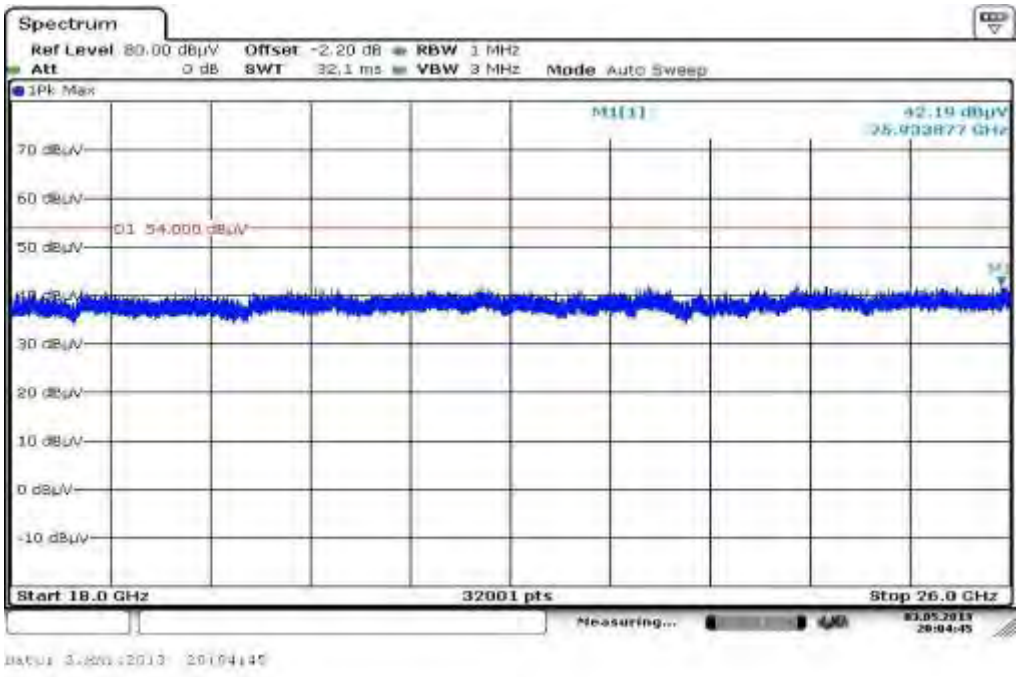
Plot 7: 1 GHz to 12.75 GHz, 5230 MHz, vertical & horizontal polarization



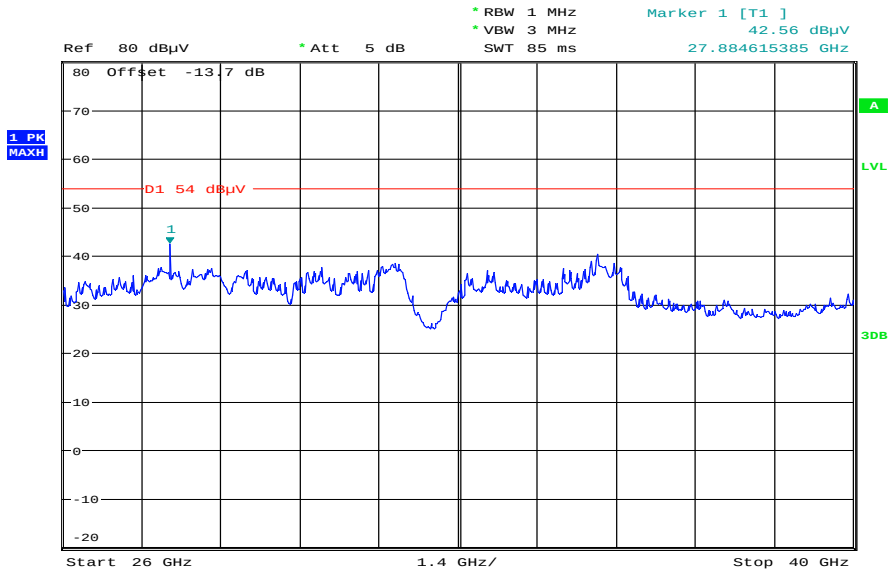
Plot 8: 12 GHz to 18 GHz, 5230 MHz, vertical & horizontal polarization



Plot 9: 18 GHz to 26 GHz, 5230 MHz, vertical & horizontal polarization



Plot 10: 26 GHz to 40 GHz, 5230 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 11:07:00

Plot 11: 30 MHz to 1 GHz, 5270 MHz, vertical & horizontal polarization

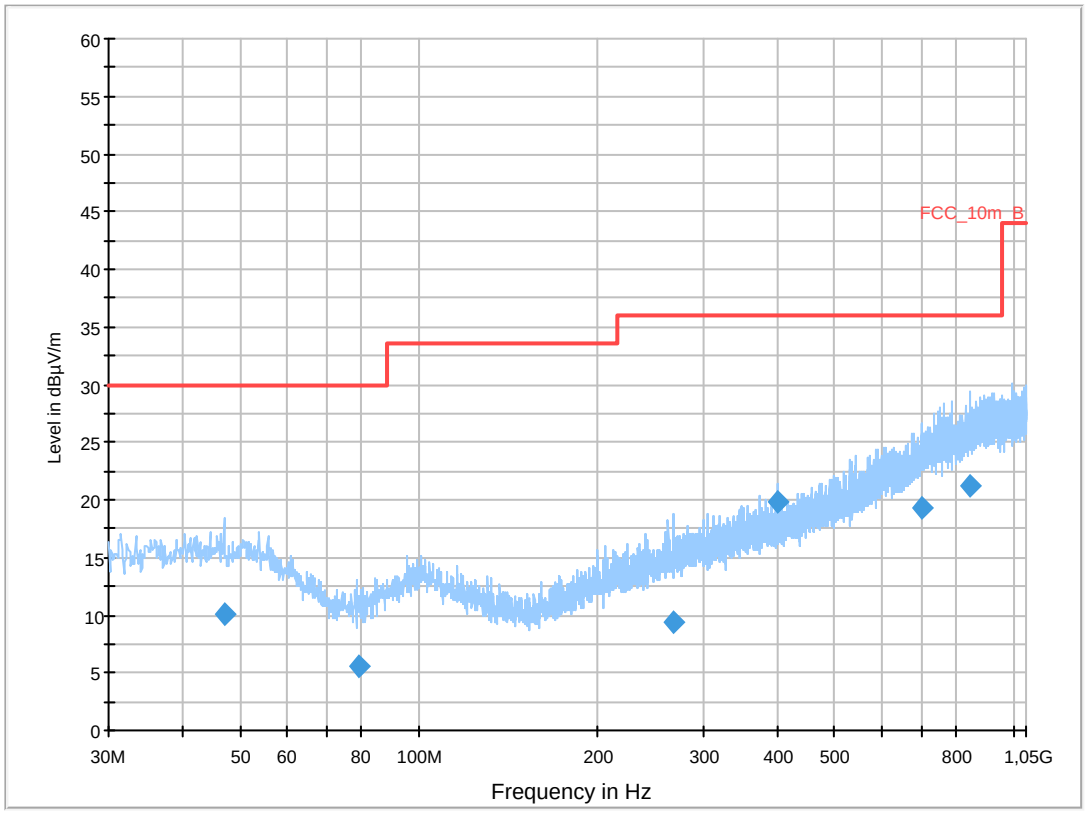
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	eval 2
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT 40 tx @5270 MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

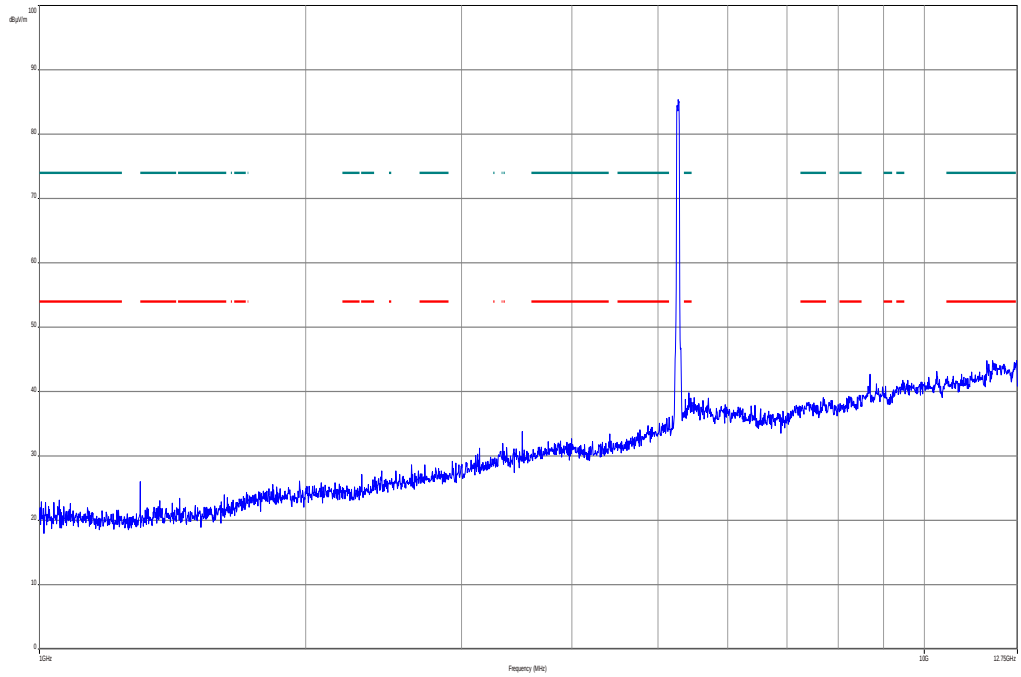
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



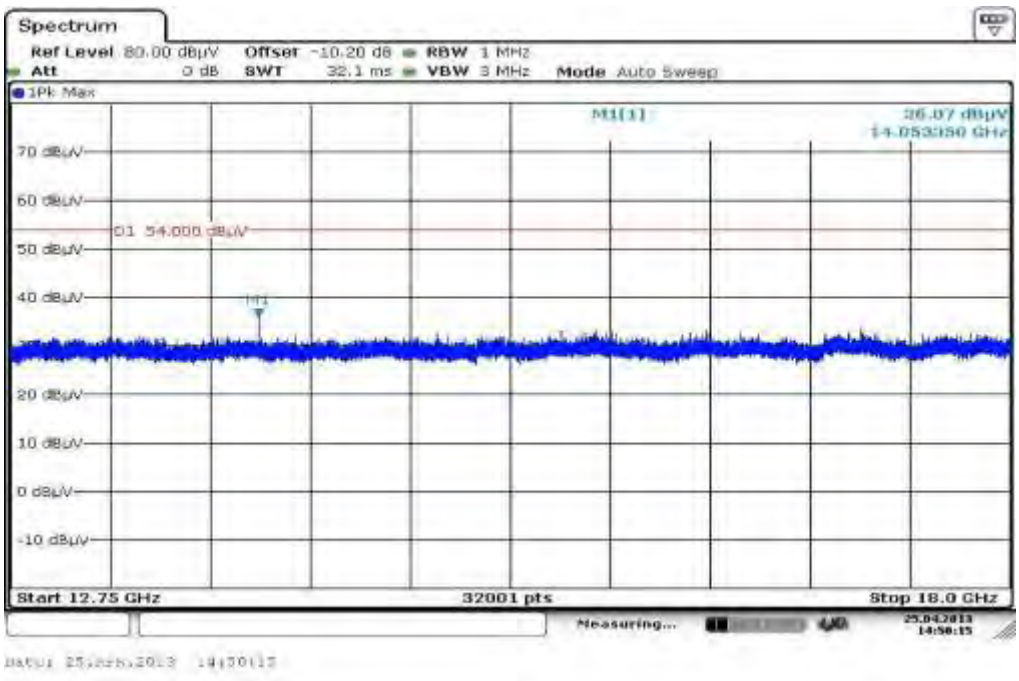
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
46.916100	10.1	1000.0	120.000	98.0	V	10.0	13.3	19.9	30.0	
78.998250	5.5	1000.0	120.000	170.0	V	177.0	9.1	24.5	30.0	
267.942000	9.5	1000.0	120.000	98.0	V	88.0	13.8	26.6	36.0	
399.983100	19.8	1000.0	120.000	98.0	V	10.0	16.9	16.2	36.0	
702.367050	19.4	1000.0	120.000	133.0	V	3.0	22.6	16.6	36.0	
843.318000	21.2	1000.0	120.000	170.0	H	190.0	24.5	14.8	36.0	

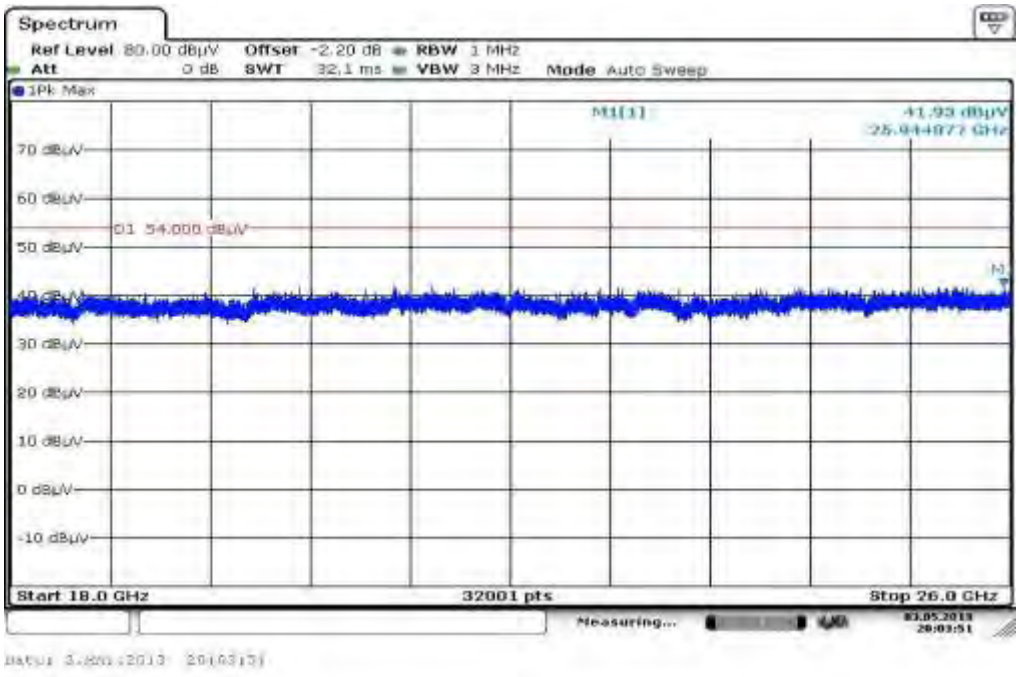
Plot 12: 1 GHz to 12.75 GHz, 5270 MHz, vertical & horizontal polarization



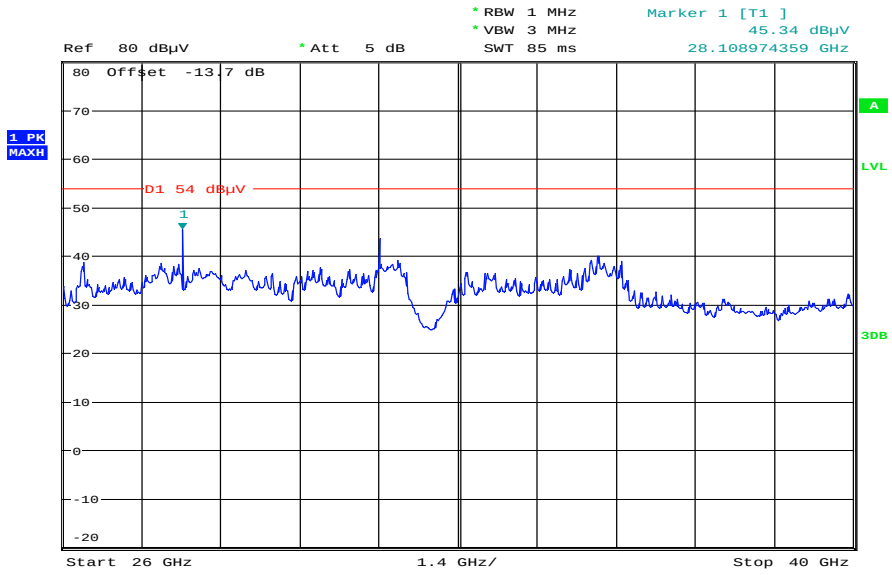
Plot 13: 12 GHz to 18 GHz, 5270 MHz, vertical & horizontal polarization



Plot 14: 18 GHz to 26 GHz, 5270 MHz, vertical & horizontal polarization



Plot 15: 26 GHz to 40 GHz, 5270 MHz, vertical & horizontal polarization



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Plot 16: 30 MHz to 1 GHz, 5310 MHz, vertical & horizontal polarization

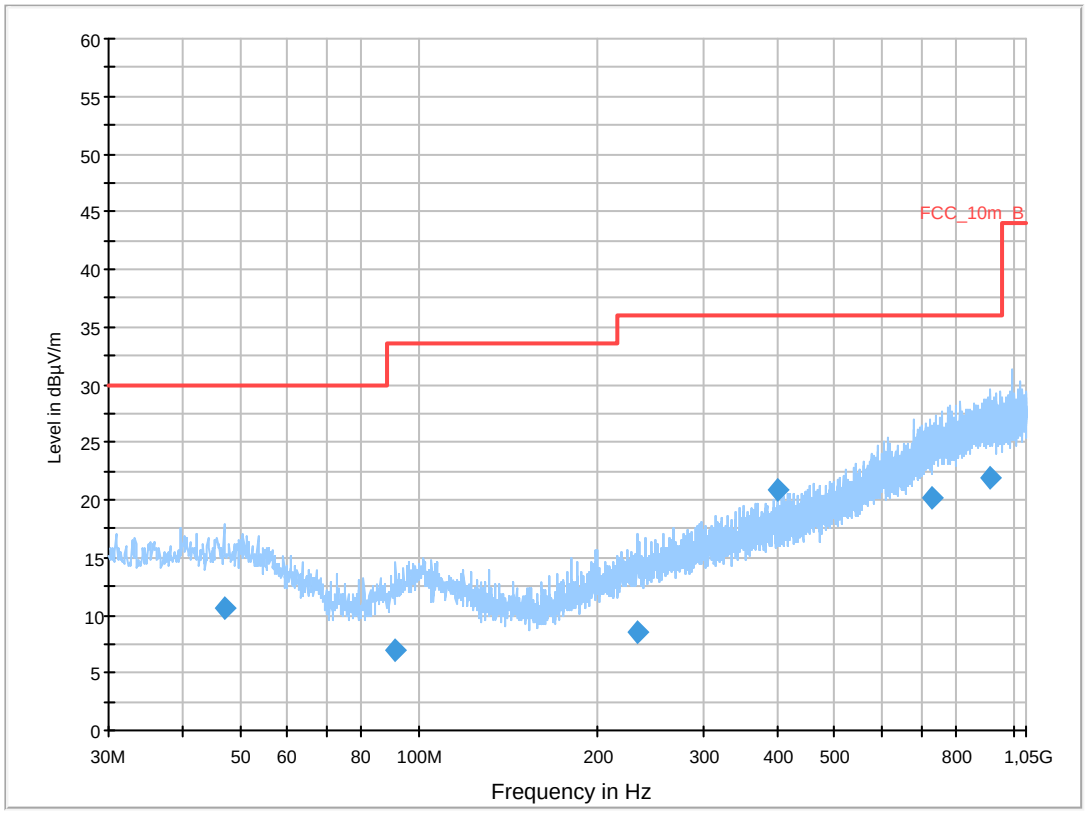
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	eval 2
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT 40 tx @5300 MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

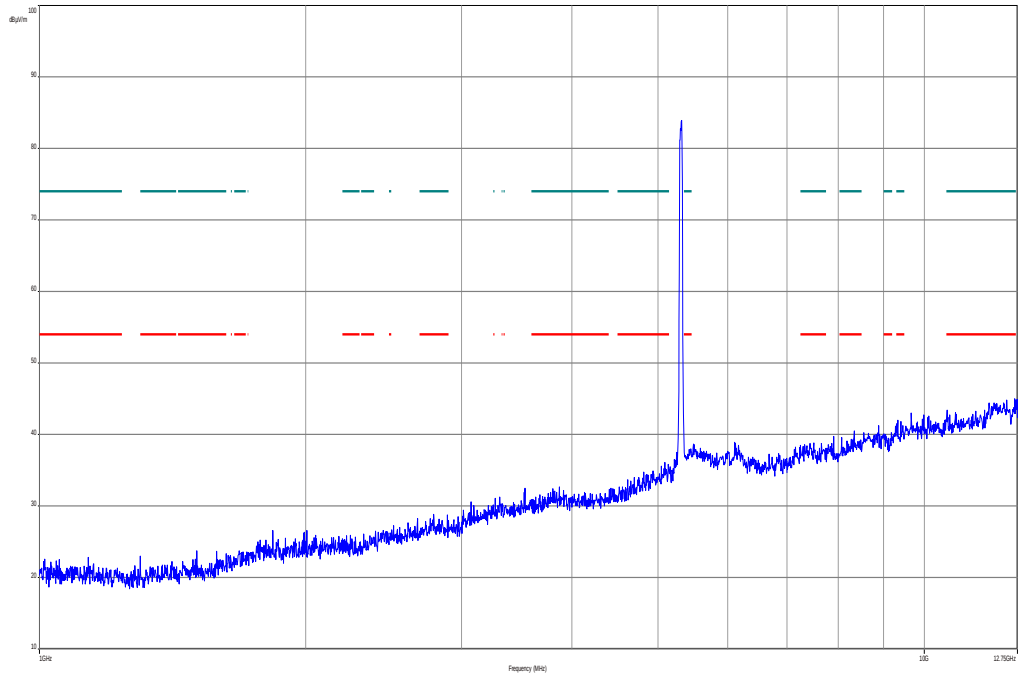
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



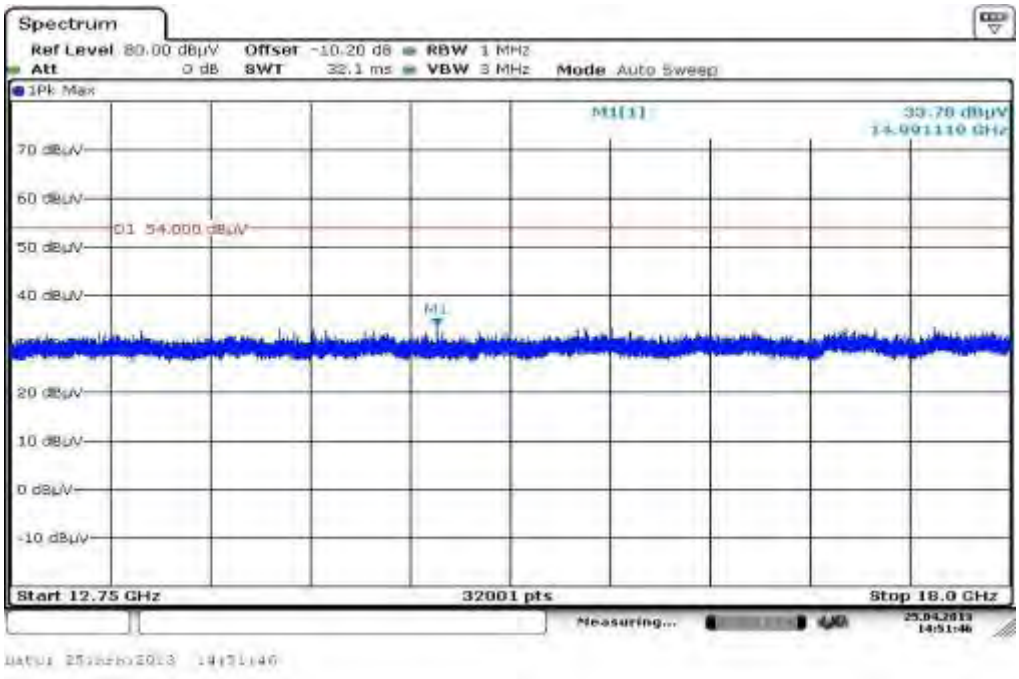
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
47.063250	10.7	1000.0	120.000	98.0	V	10.0	13.3	19.3	30.0	
91.041900	6.9	1000.0	120.000	111.0	V	170.0	10.7	26.6	33.5	
233.008200	8.5	1000.0	120.000	170.0	H	80.0	12.8	27.5	36.0	
400.000350	20.9	1000.0	120.000	170.0	H	-10.0	16.9	15.1	36.0	
726.295350	20.1	1000.0	120.000	170.0	H	-5.0	23.1	15.9	36.0	
910.801350	21.8	1000.0	120.000	170.0	H	280.0	25.2	14.2	36.0	

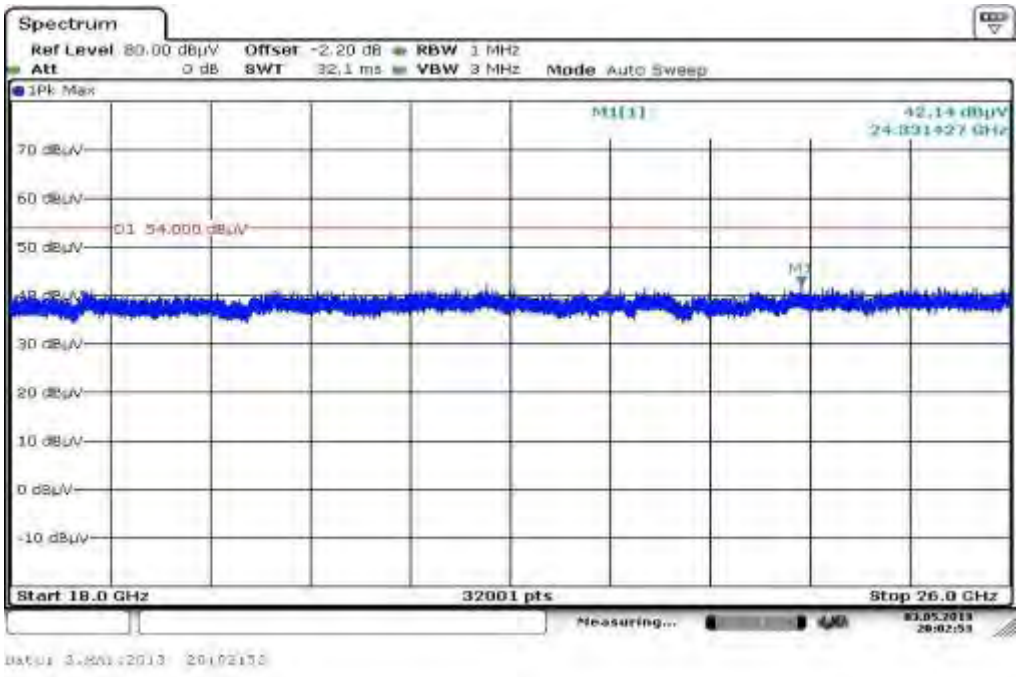
Plot 17: 1 GHz to 12.75 GHz, 5310 MHz, vertical & horizontal polarization



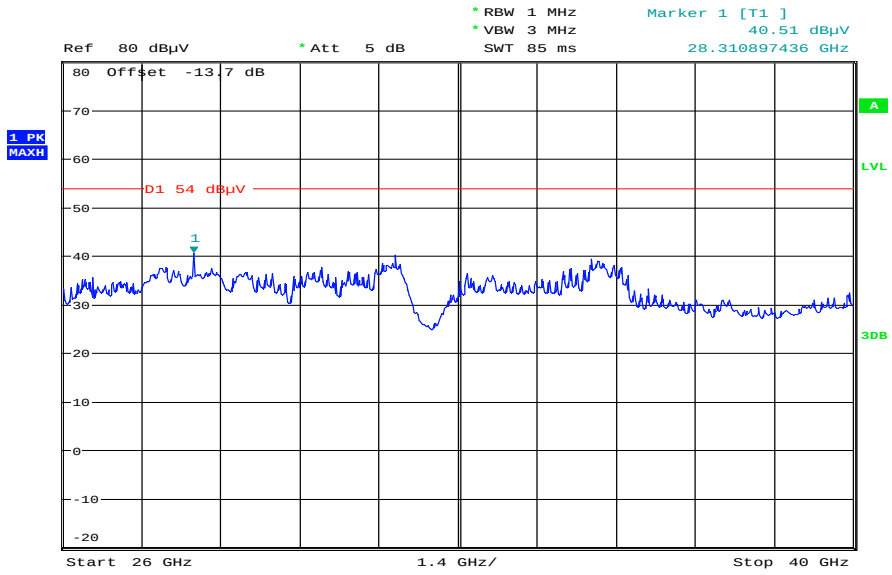
Plot 18: 12 GHz to 18 GHz, 5310 MHz, vertical & horizontal polarization



Plot 19: 18 GHz to 26 GHz, 5310 MHz, vertical & horizontal polarization



Plot 20: 26 GHz to 40 GHz, 5310 MHz, vertical & horizontal polarization



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Plot 21: 30 MHz to 1 GHz, 5510 MHz, vertical & horizontal polarization

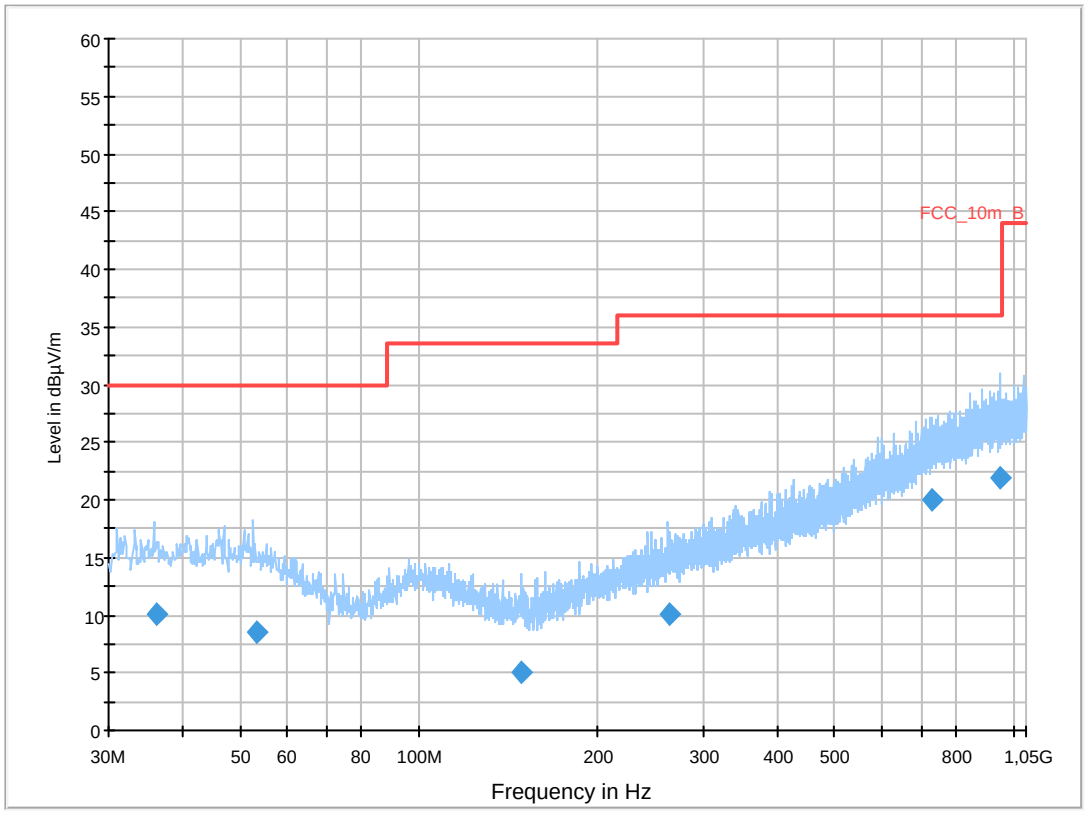
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	eval 2
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT 40 tx @5510 MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

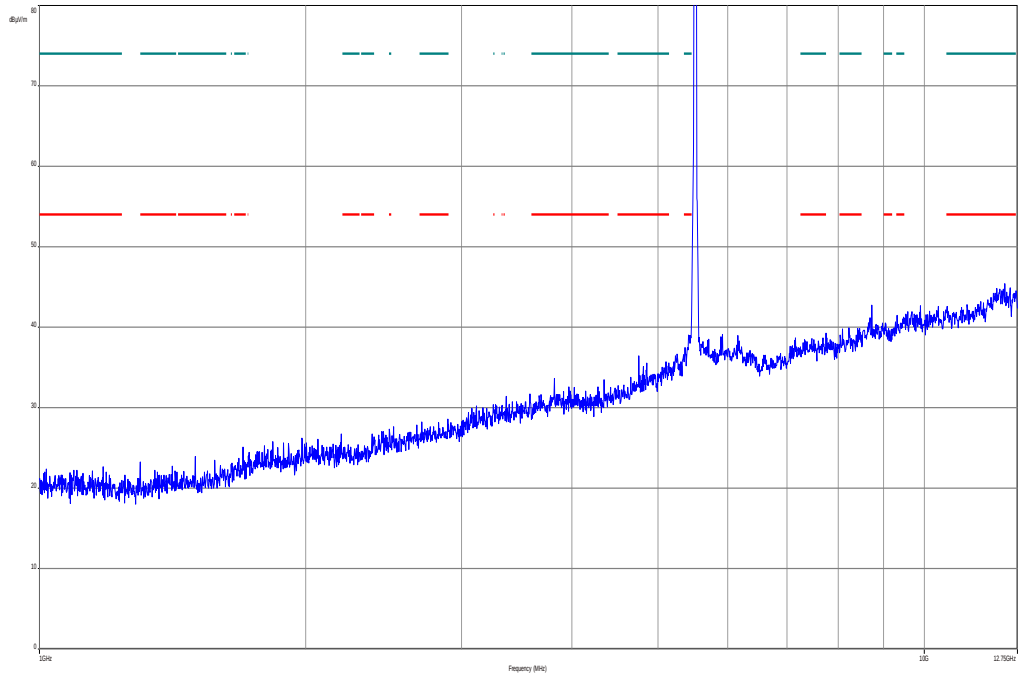
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



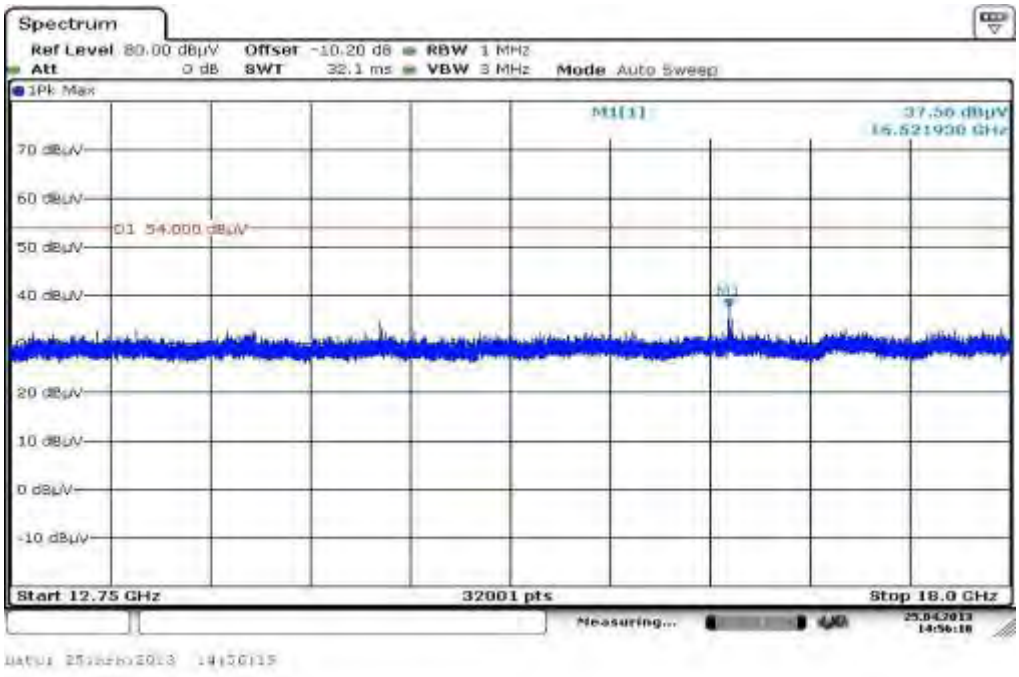
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
36.048150	10.0	1000.0	120.000	161.0	V	88.0	13.1	20.0	30.0	
53.140200	8.6	1000.0	120.000	170.0	H	190.0	13.1	21.4	30.0	
148.185150	5.0	1000.0	120.000	170.0	H	100.0	8.9	28.5	33.5	
263.107050	10.0	1000.0	120.000	170.0	H	-10.0	13.6	26.0	36.0	
729.828000	20.0	1000.0	120.000	170.0	V	183.0	23.2	16.0	36.0	
945.747150	21.9	1000.0	120.000	170.0	H	-10.0	25.3	14.1	36.0	

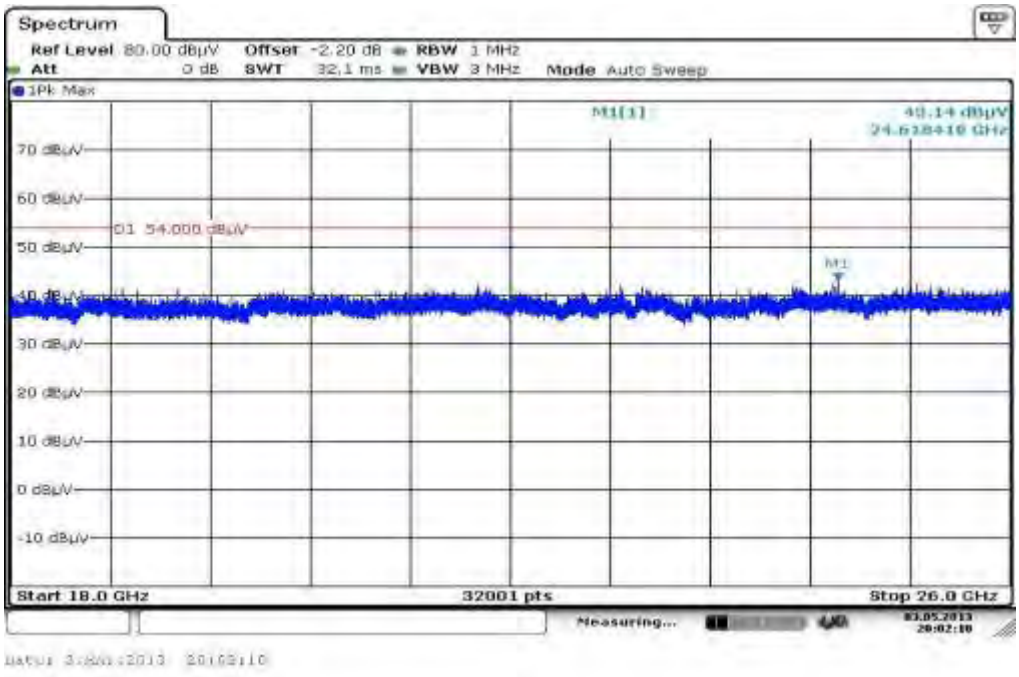
Plot 22: 1 GHz to 12.75 GHz, 5510 MHz, vertical & horizontal polarization



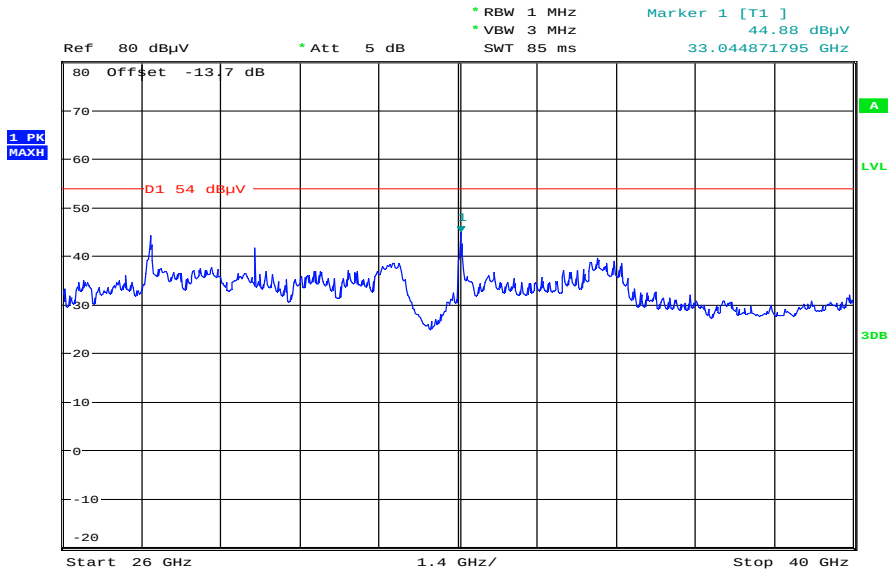
Plot 23: 12 GHz to 18 GHz, 5510 MHz, vertical & horizontal polarization



Plot 24: 18 GHz to 26 GHz, 5510 MHz, vertical & horizontal polarization



Plot 25: 26 GHz to 40 GHz, 5510 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 11:10:19

Plot 26: 30 MHz to 1 GHz, 5590 MHz, vertical & horizontal polarization

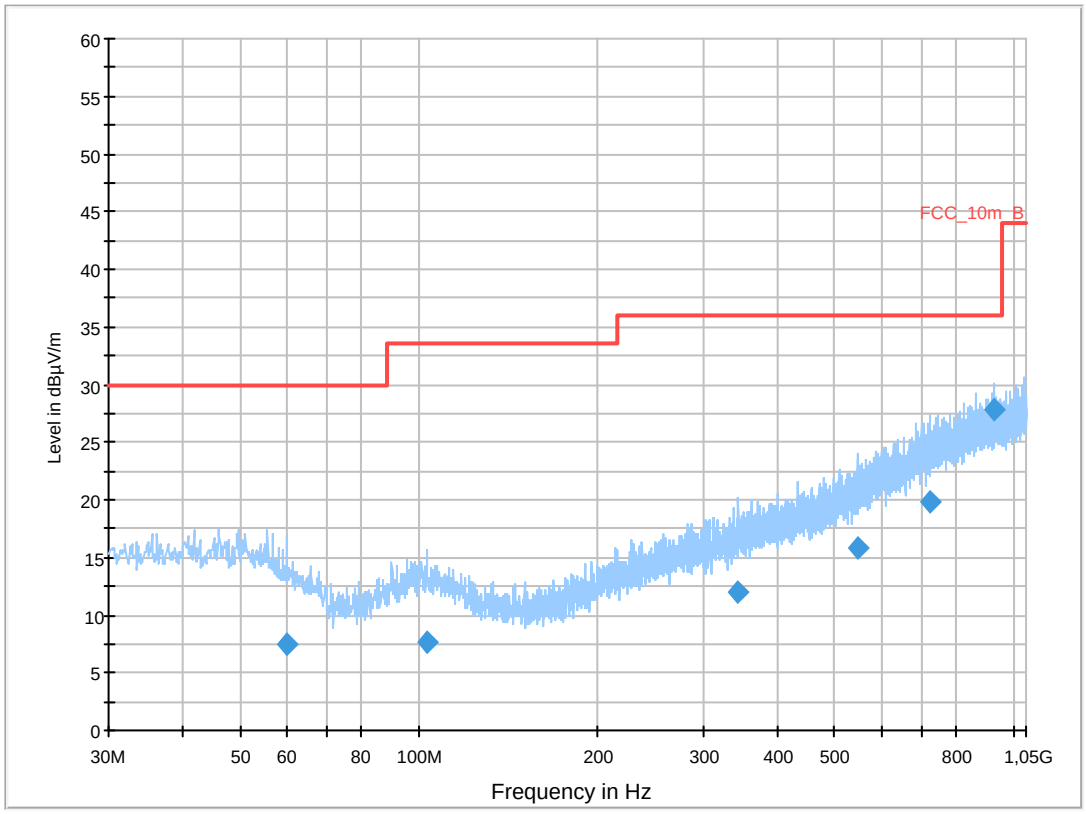
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	eval 2
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT 40 tx @5580 MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

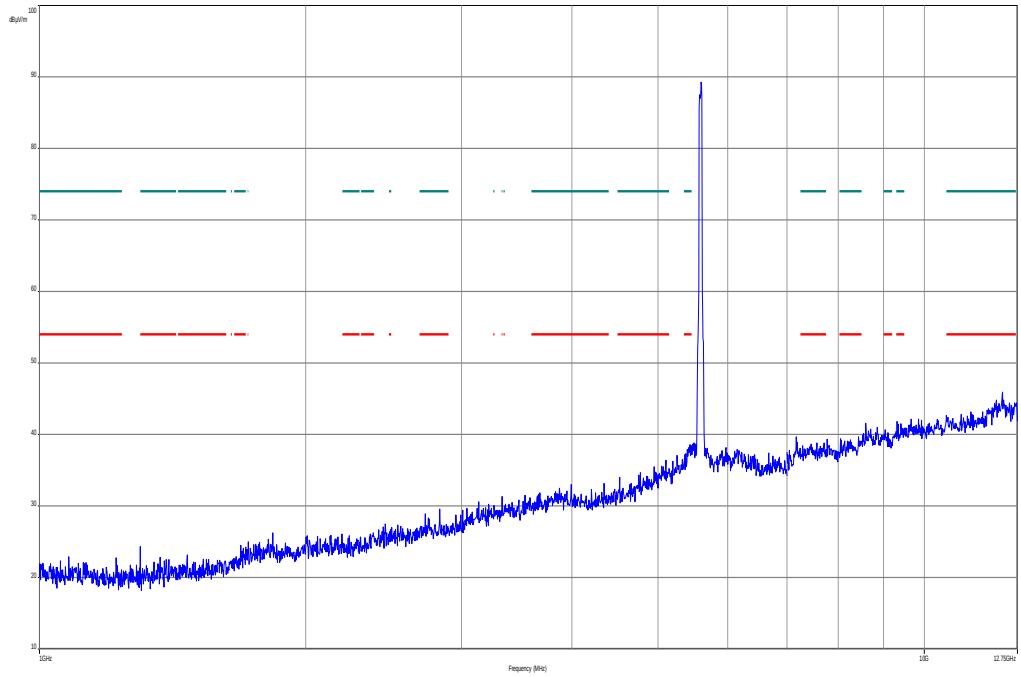
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



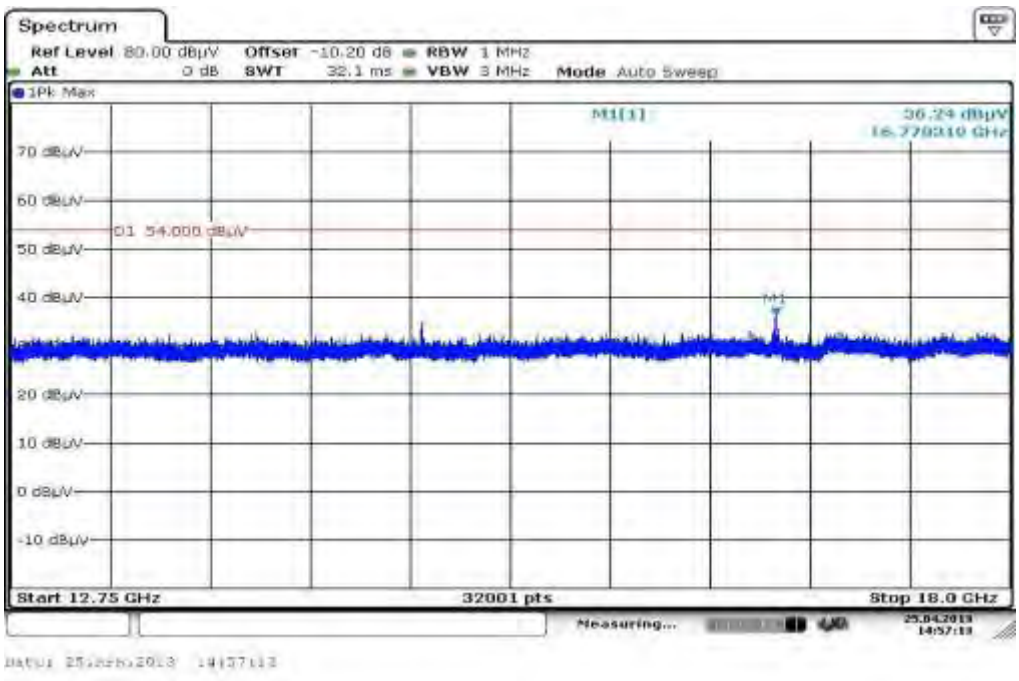
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
59.888550	7.6	1000.0	120.000	170.0	H	280.0	11.6	22.4	30.0	
102.736800	7.6	1000.0	120.000	170.0	H	10.0	11.7	25.9	33.5	
344.252100	12.1	1000.0	120.000	170.0	H	270.0	15.9	23.9	36.0	
546.760350	15.8	1000.0	120.000	170.0	V	190.0	19.3	20.2	36.0	
723.282900	19.9	1000.0	120.000	163.0	H	81.0	23.0	16.1	36.0	
927.467550	27.8	1000.0	120.000	170.0	V	0.0	25.3	8.2	36.0	

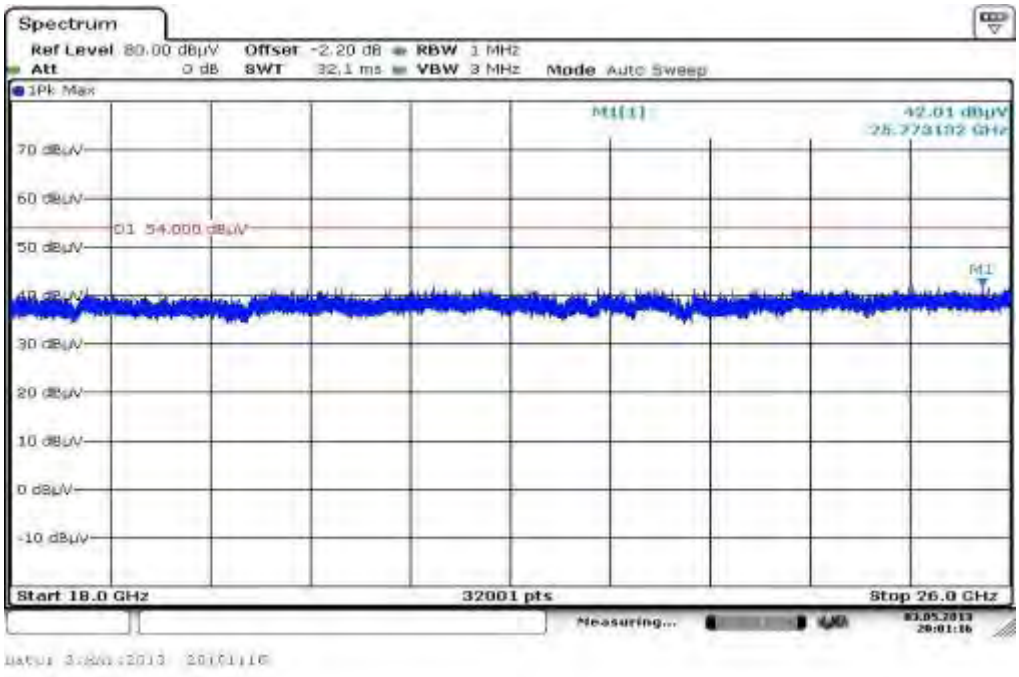
Plot 27: 1 GHz to 12.75 GHz, 5590 MHz, vertical & horizontal polarization



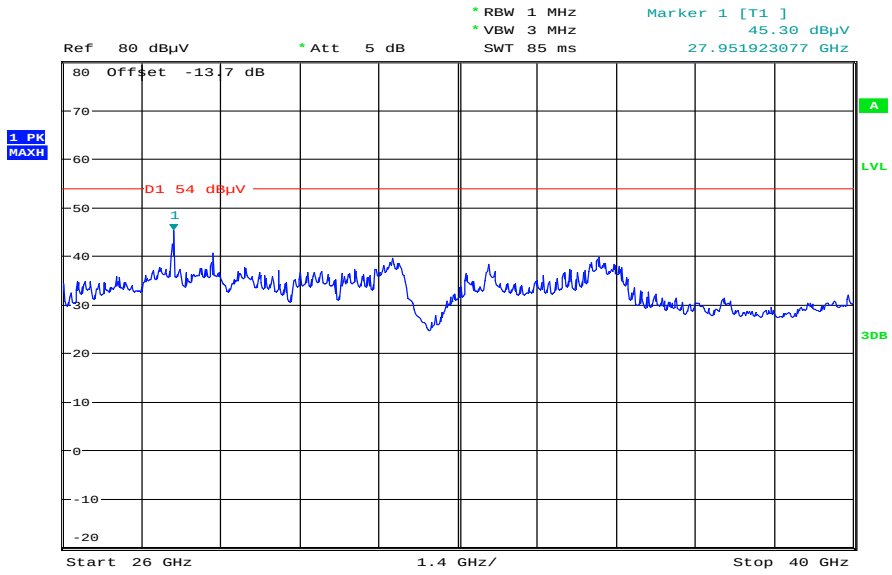
Plot 28: 12 GHz to 18 GHz, 5590 MHz, vertical & horizontal polarization



Plot 29: 18 GHz to 26 GHz, 5590 MHz, vertical & horizontal polarization



Plot 30: 26 GHz to 40 GHz, 5590 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 11:11:29

Plot 31: 30 MHz to 1 GHz, 5670 MHz, vertical & horizontal polarization

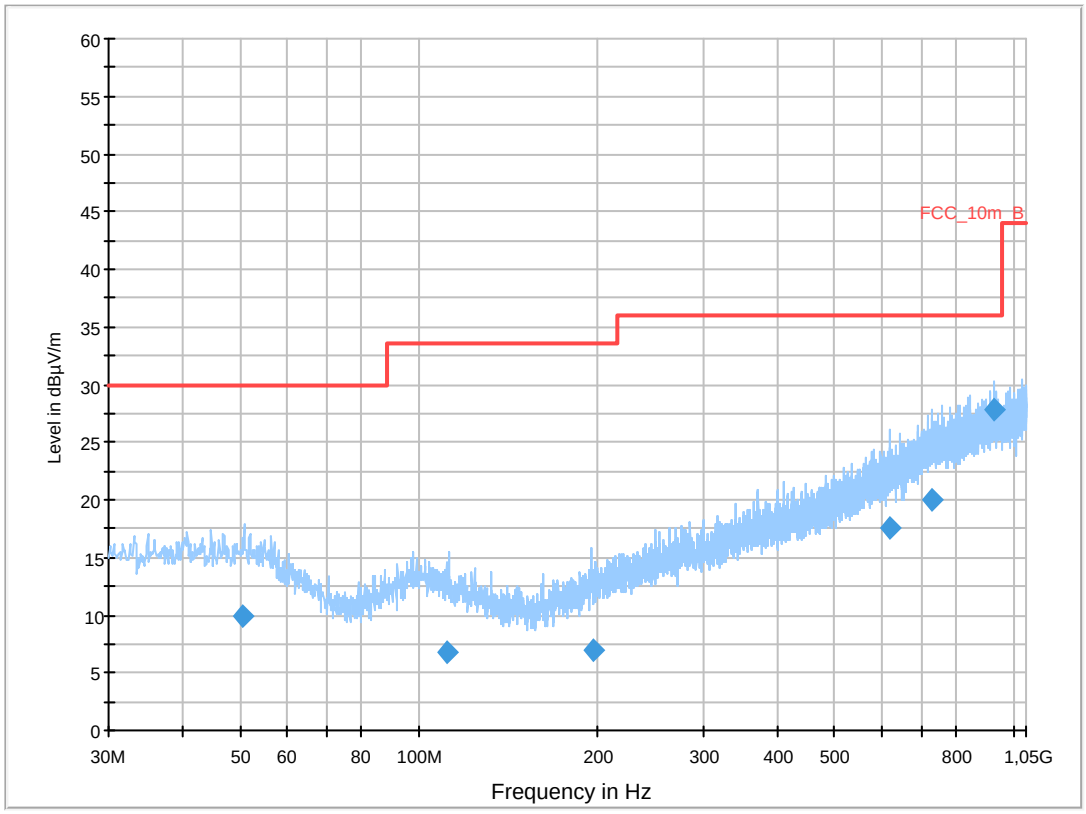
Common Information

EUT:	WLANBV2-A + antenna 453564154611
Serial Number:	eval 2
Test Description:	FCC part 15 C class B @ 10 m
Operating Conditions:	wlan n-mode HT 40 tx @5660MHz
Operator Name:	Wolsdorfer
Comment:	DC 5V

Scan Setup: STAN_Fin [EMI radiated]

Hardware Setup:	Electric Field (NOS)
Receiver:	[ESCI 3]
Level Unit:	dBµV/m

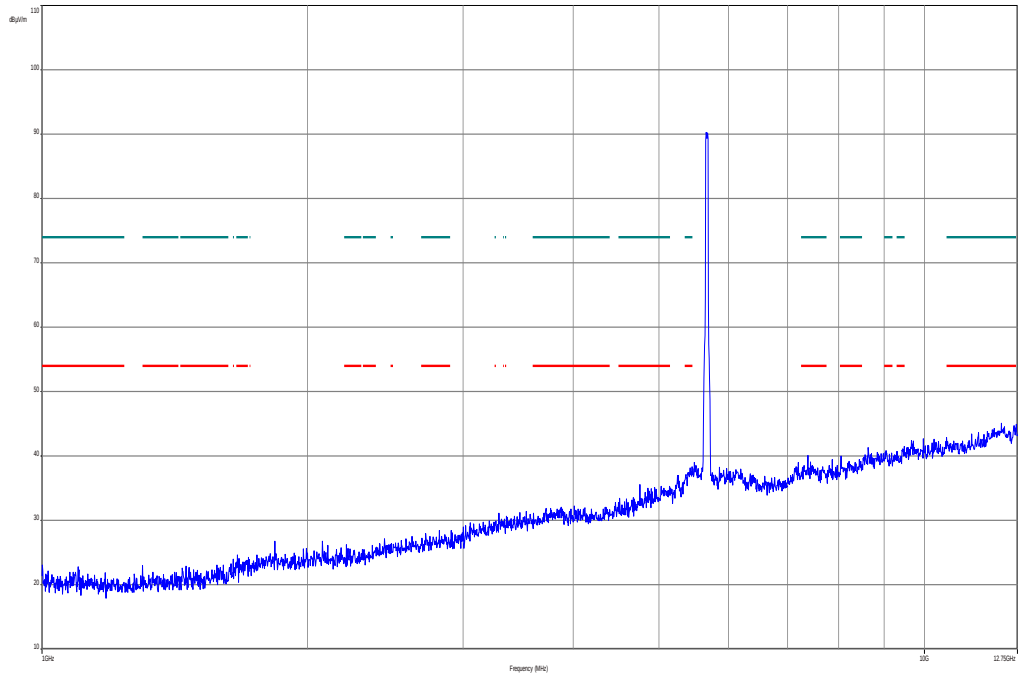
Subrange	Step Size	Detectors	IF BW	Meas. Time	Preamp
30 MHz - 2 GHz	60 kHz	QPK	120 kHz	1 s	20 dB



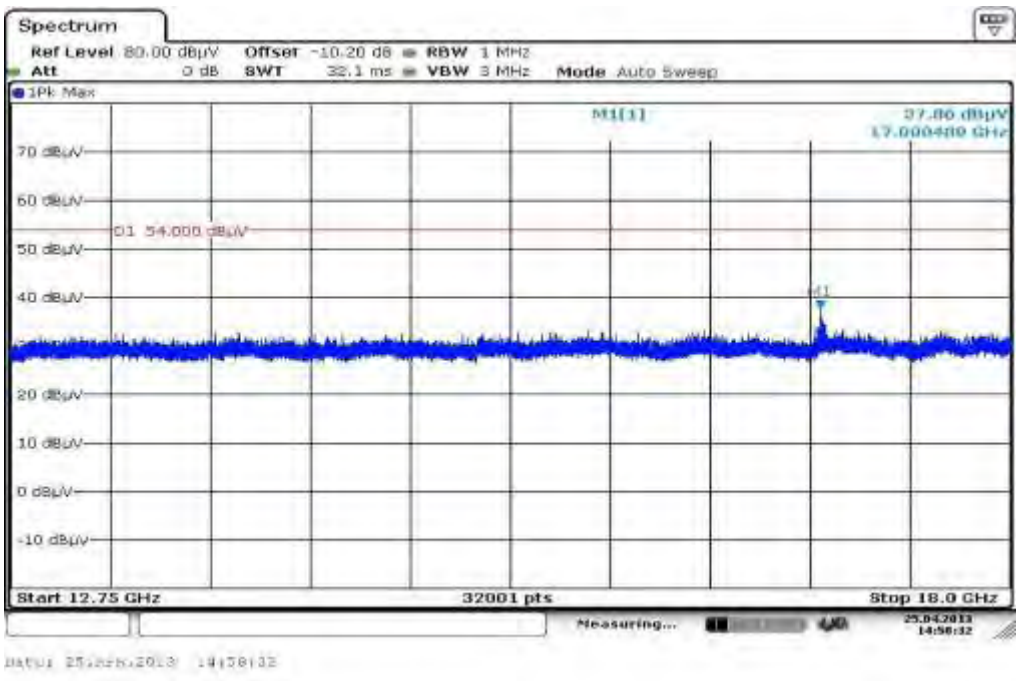
Final Result 1

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Comment
50.419050	9.9	1000.0	120.000	112.0	V	90.0	13.3	20.1	30.0	
111.517800	6.8	1000.0	120.000	170.0	H	280.0	10.9	26.7	33.5	
195.692850	7.0	1000.0	120.000	170.0	H	100.0	11.4	26.5	33.5	
619.340250	17.6	1000.0	120.000	170.0	V	80.0	20.9	18.4	36.0	
727.471500	19.9	1000.0	120.000	170.0	V	100.0	23.1	16.1	36.0	
927.436050	27.9	1000.0	120.000	170.0	V	-4.0	25.3	8.1	36.0	

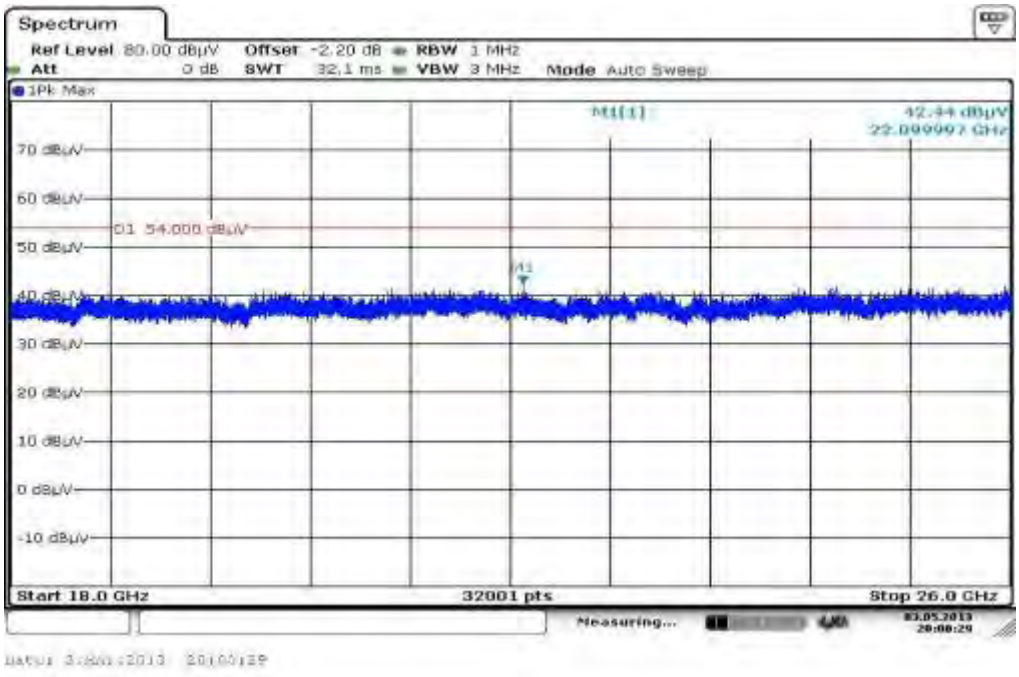
Plot 32: 1 GHz to 12.75 GHz, 5670 MHz, vertical & horizontal polarization



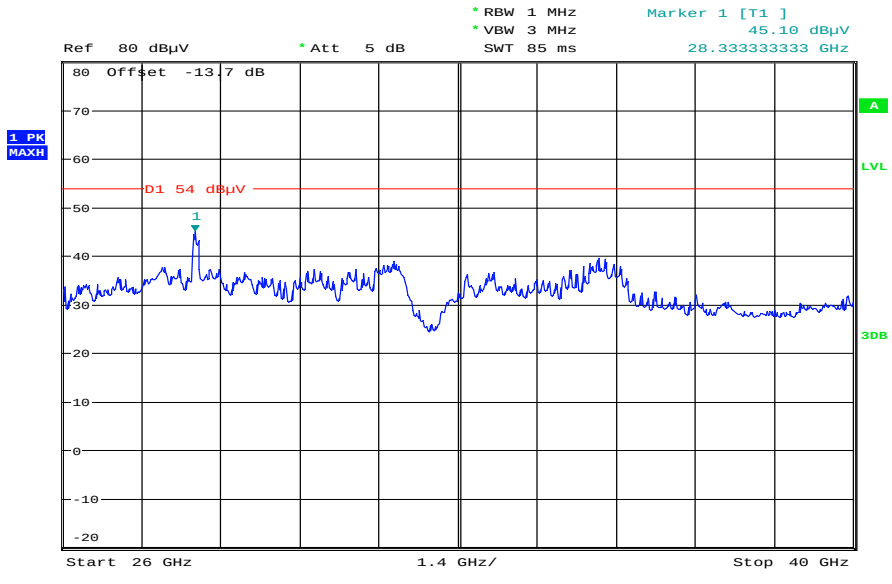
Plot 33: 12 GHz to 18 GHz, 5670 MHz, vertical & horizontal polarization



Plot 34: 18 GHz to 26 GHz, 5670 MHz, vertical & horizontal polarization



Plot 35: 26 GHz to 40 GHz, 5670 MHz, vertical & horizontal polarization



Date: 14.MAY.2013 11:12:10