



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #4779

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 6(802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

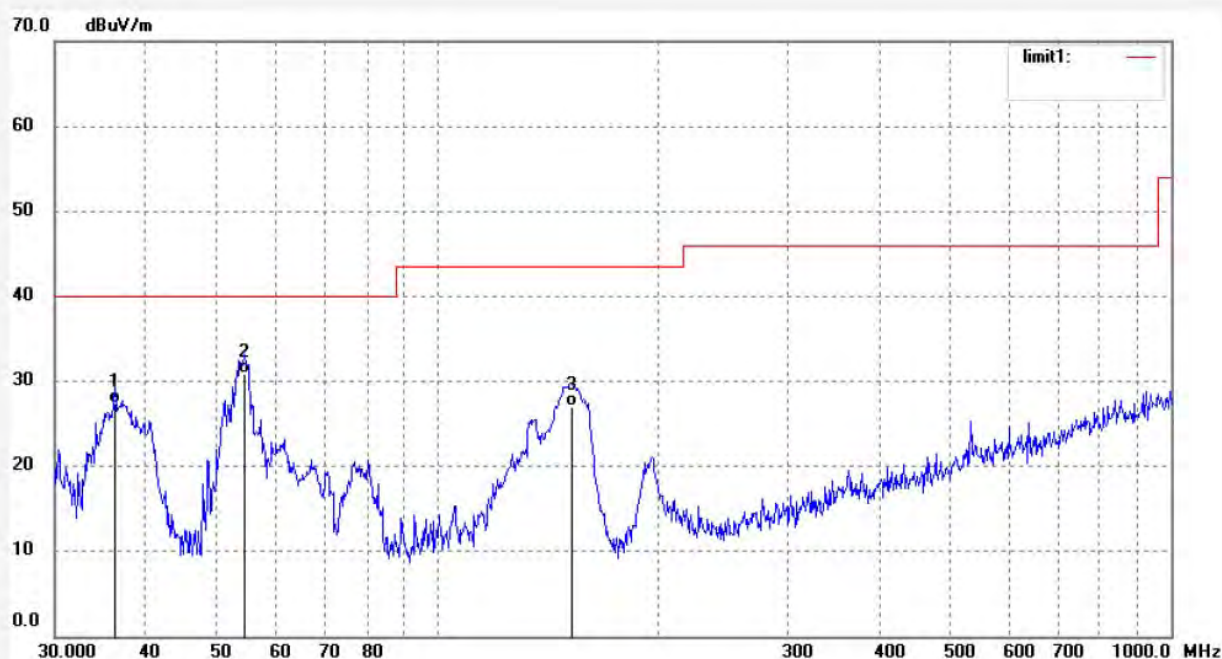
Date: 2013/02/01

Time: 10:54:15

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	36.2678	12.06	15.40	27.46	40.00	-12.54	QP			
2	54.5167	16.74	14.10	30.84	40.00	-9.16	QP			
3	152.0902	15.54	11.54	27.08	43.50	-16.42	QP			


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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4755

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 6(802.11n)20MHz

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Horizontal

Power Source: AC 120V/60Hz

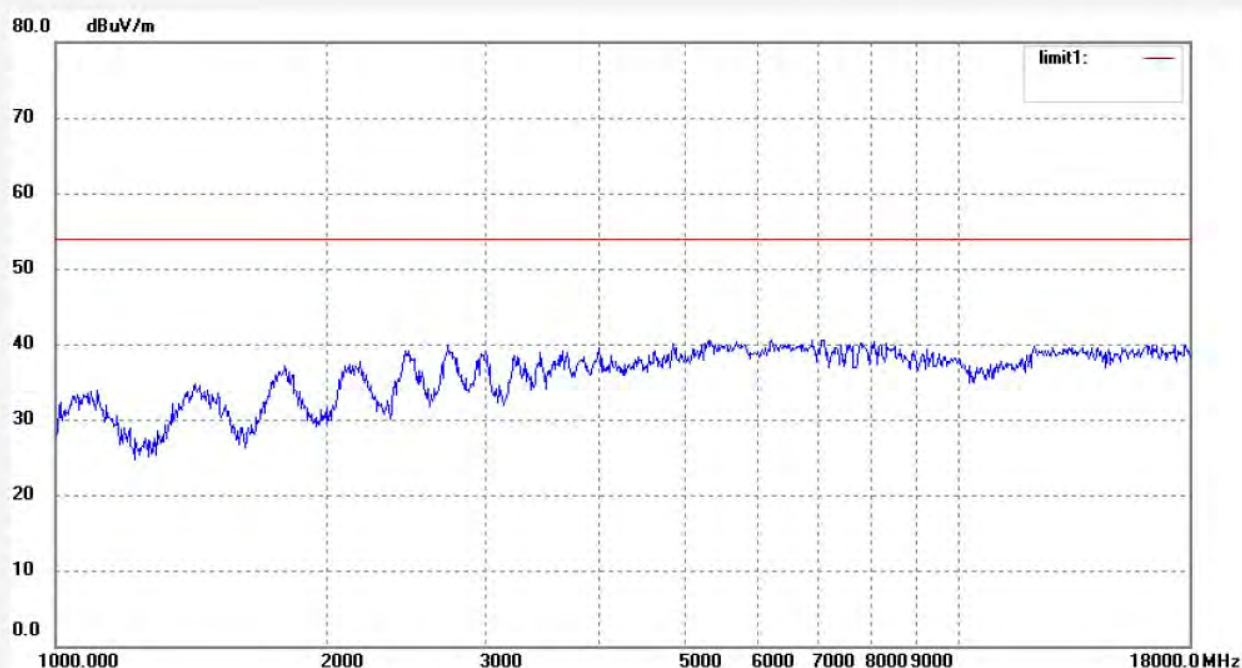
Date: 13/02/01

Time: 10/06/02

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4754

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 6(802.11n)20MHz

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

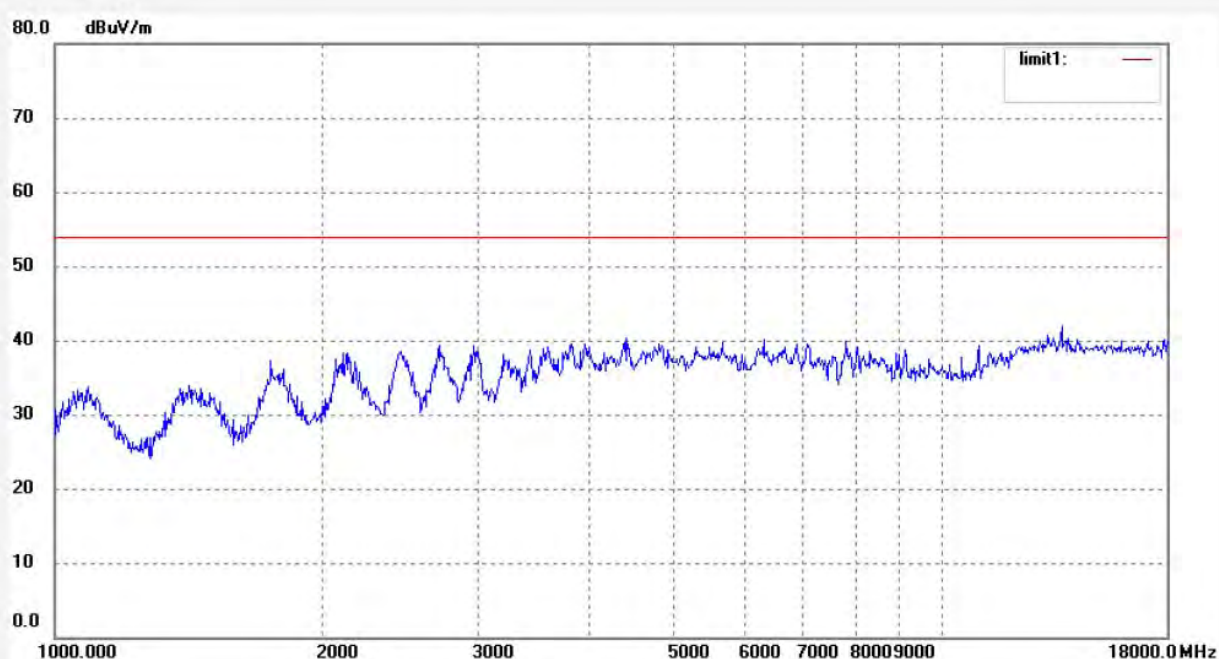
Date: 13/02/01

Time: 10/02/21

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1616

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 6 (802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Horizontal

Power Source: AC 120V/60Hz

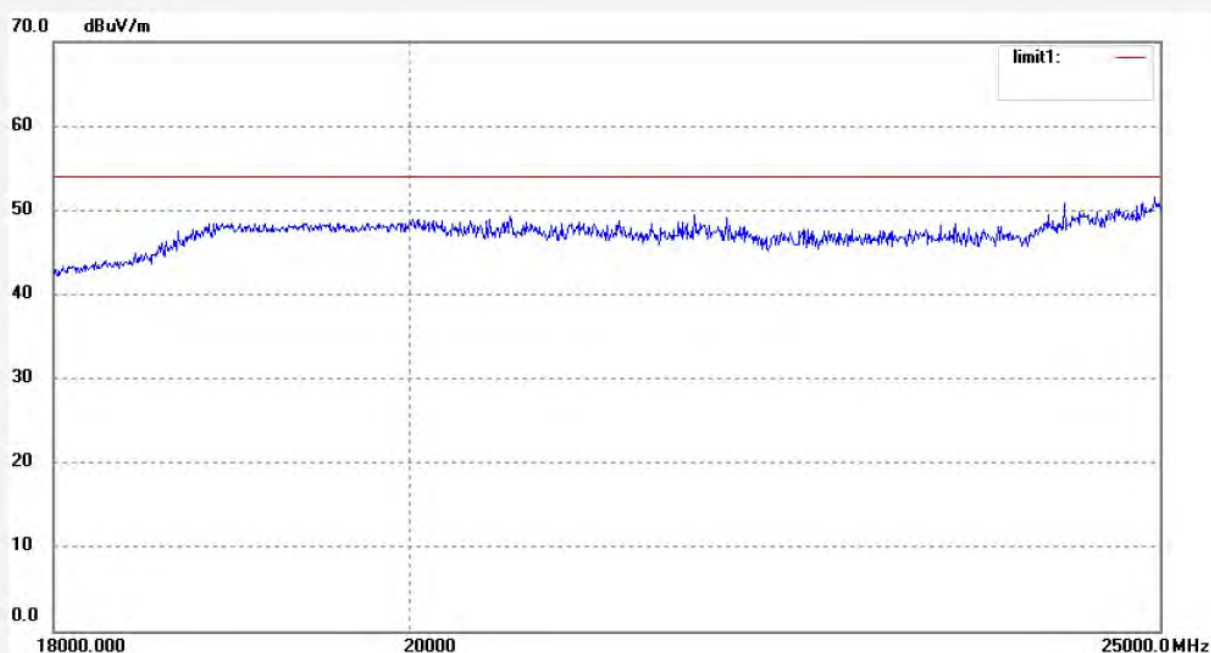
Date: 13/02/2/

Time: 11:05:58

Engineer Signature: Bob

Distance:

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1615

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 6 (802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

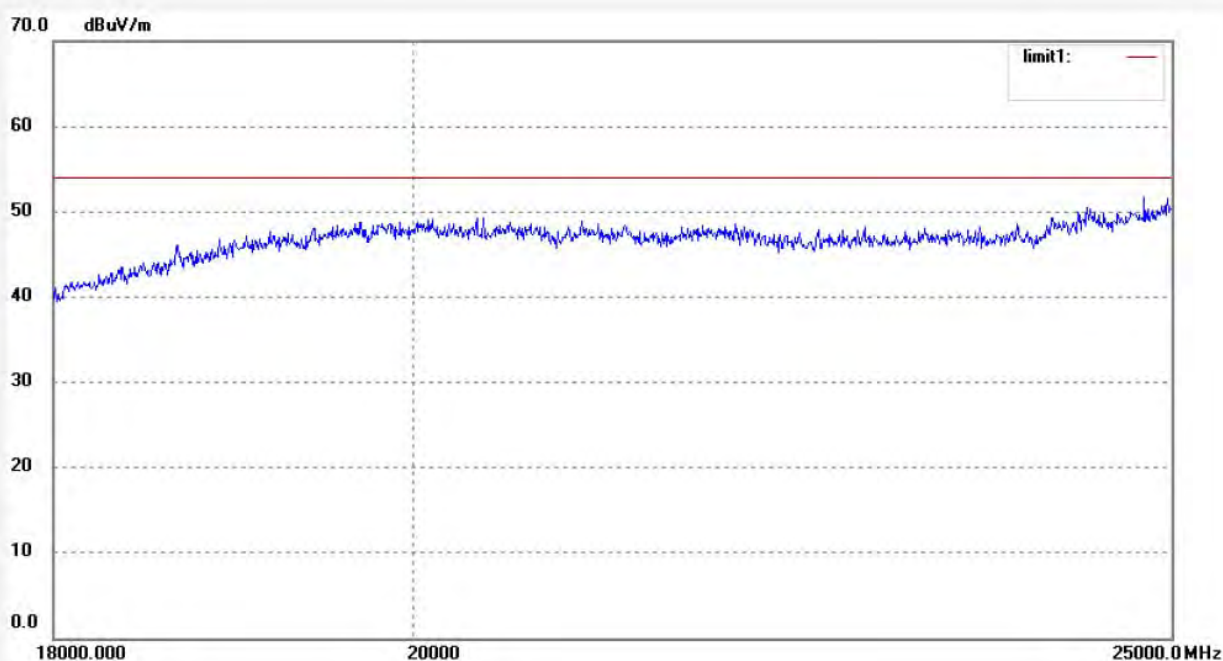
Date: 13/02/2/

Time: 11:02:36

Engineer Signature: Bob

Distance:

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

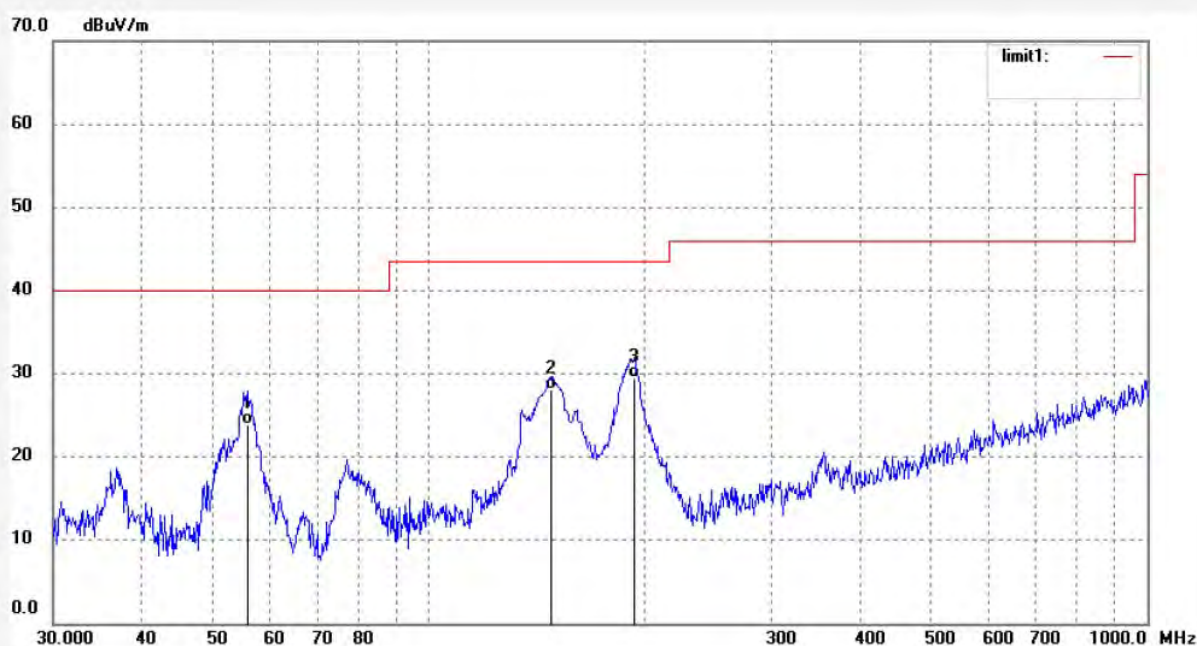
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #4781
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: MID
Mode: Channel 11(802.11n)
Model: VX-S7001
Manufacturer: Sungworld

Polarization: Horizontal
Power Source: AC 120V/60Hz
Date: 2013/02/01
Time: 10:58:44
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	55.8742	10.02	13.90	23.92	40.00	-16.08	QP			
2	147.8747	16.63	11.51	28.14	43.50	-15.36	QP			
3	193.1366	15.54	13.96	29.50	43.50	-14.00	QP			



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4780

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 11(802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

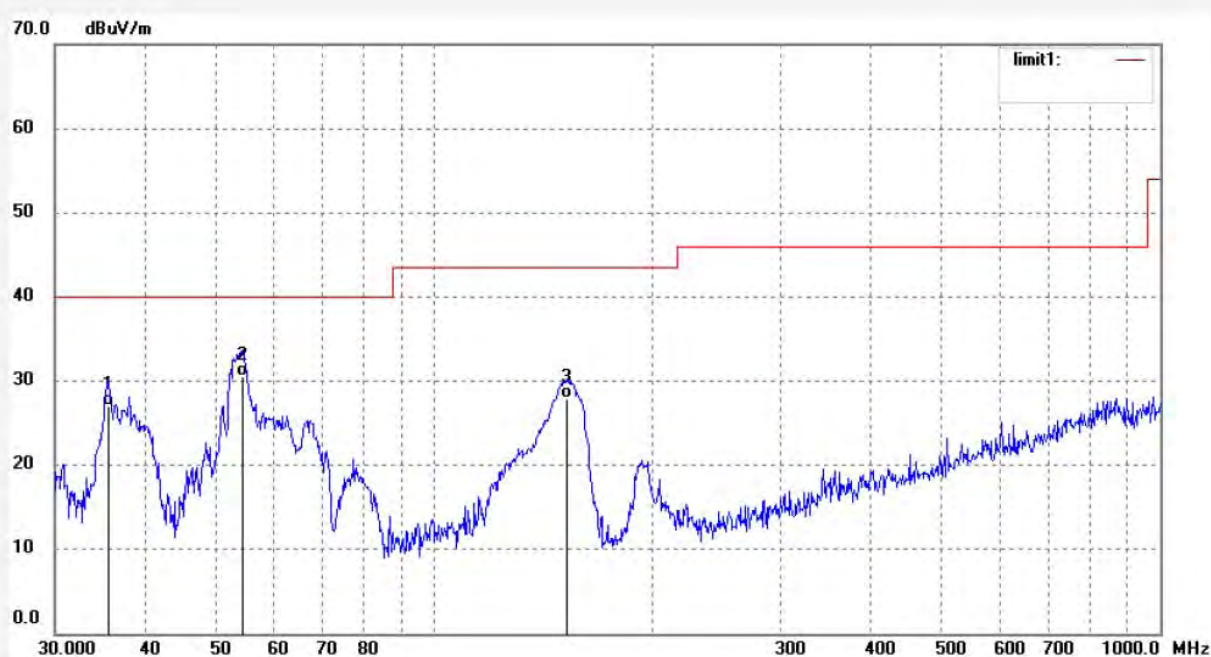
Date: 2013/02/01

Time: 10:56:47

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.5112	11.54	15.57	27.11	40.00	-12.89	QP			
2	54.3255	16.43	14.12	30.55	40.00	-9.45	QP			
3	152.0902	16.33	11.54	27.87	43.50	-15.63	QP			



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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4756

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 11(802.11n)20MHz

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Horizontal

Power Source: AC 120V/60Hz

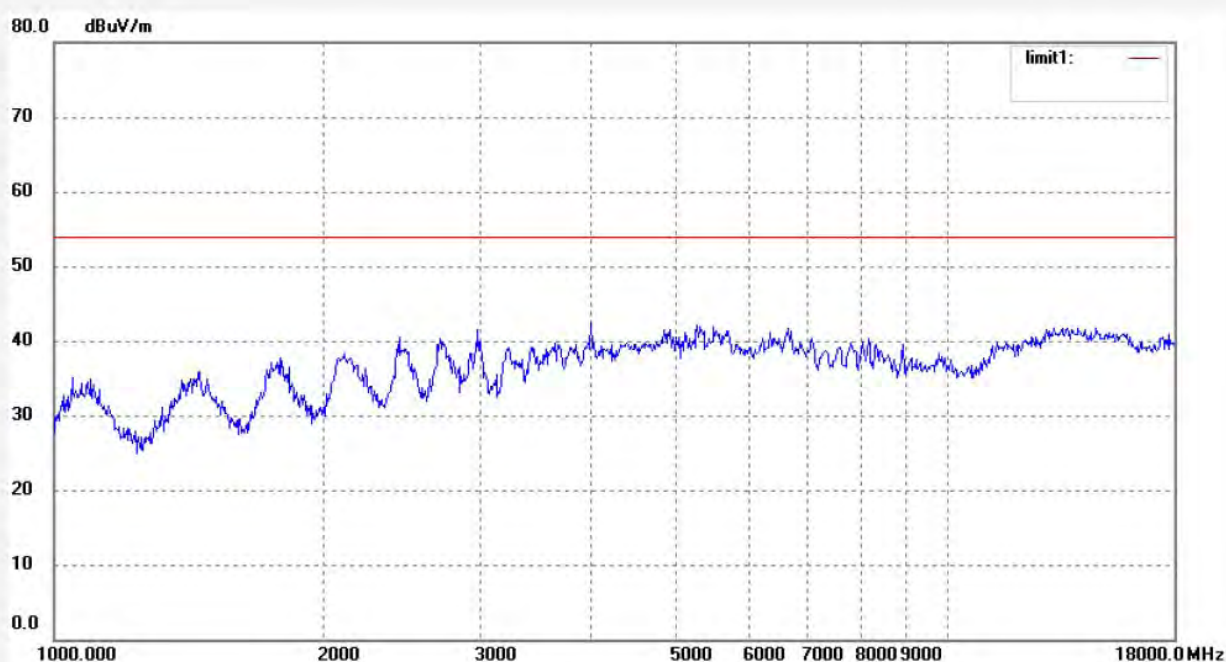
Date: 13/02/01

Time: 10/08/14

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4757

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 11(802.11n)20MHz

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

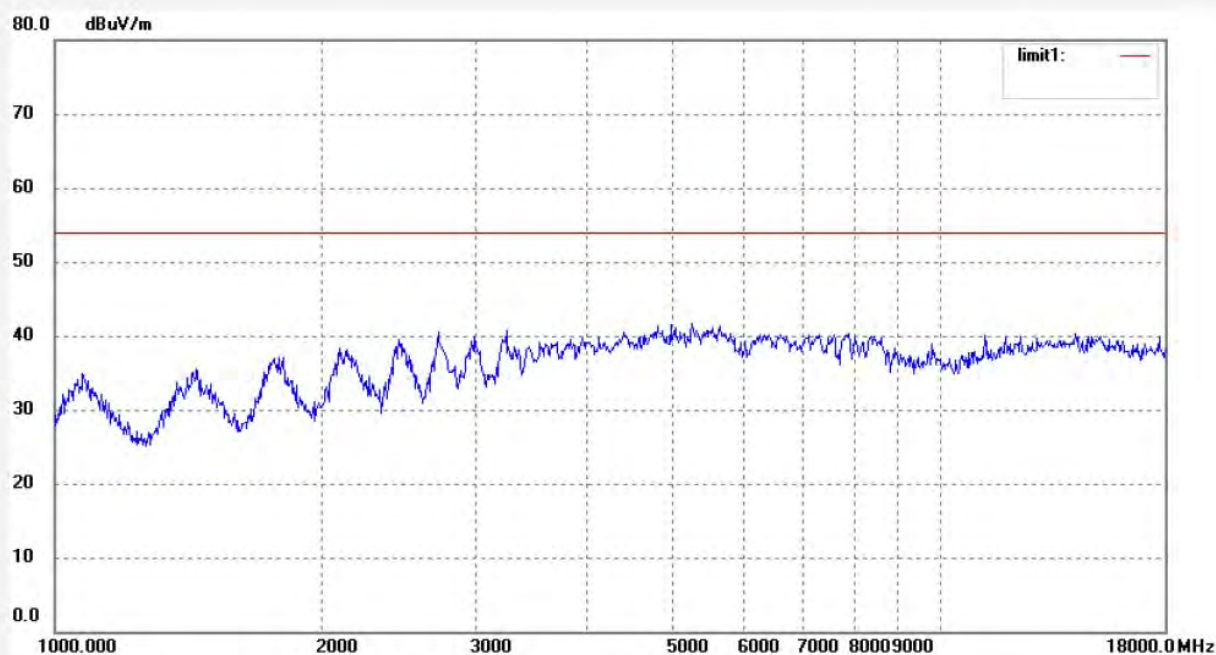
Date: 13/02/01

Time: 10/10/55

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #1613

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 11 (802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Horizontal

Power Source: AC 120V/60Hz

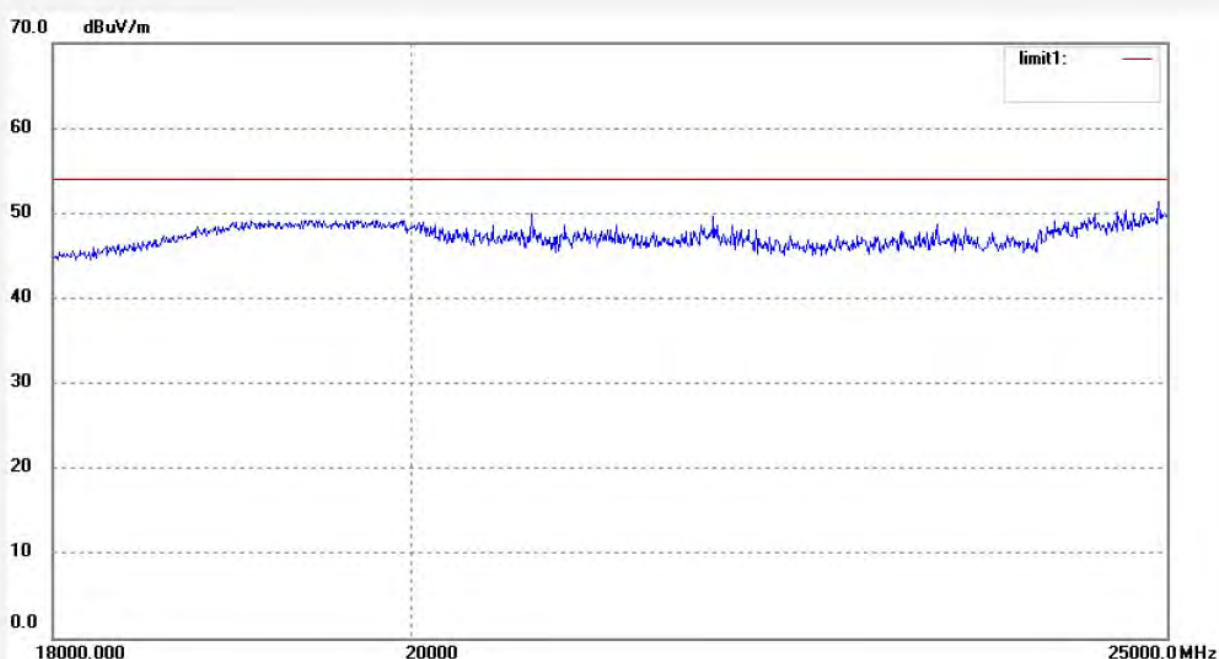
Date: 13/02/2/

Time: 10:53:17

Engineer Signature: Bob

Distance:

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #1614

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 24 C / 48 %

EUT: MID

Mode: TX Channel 11 (802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

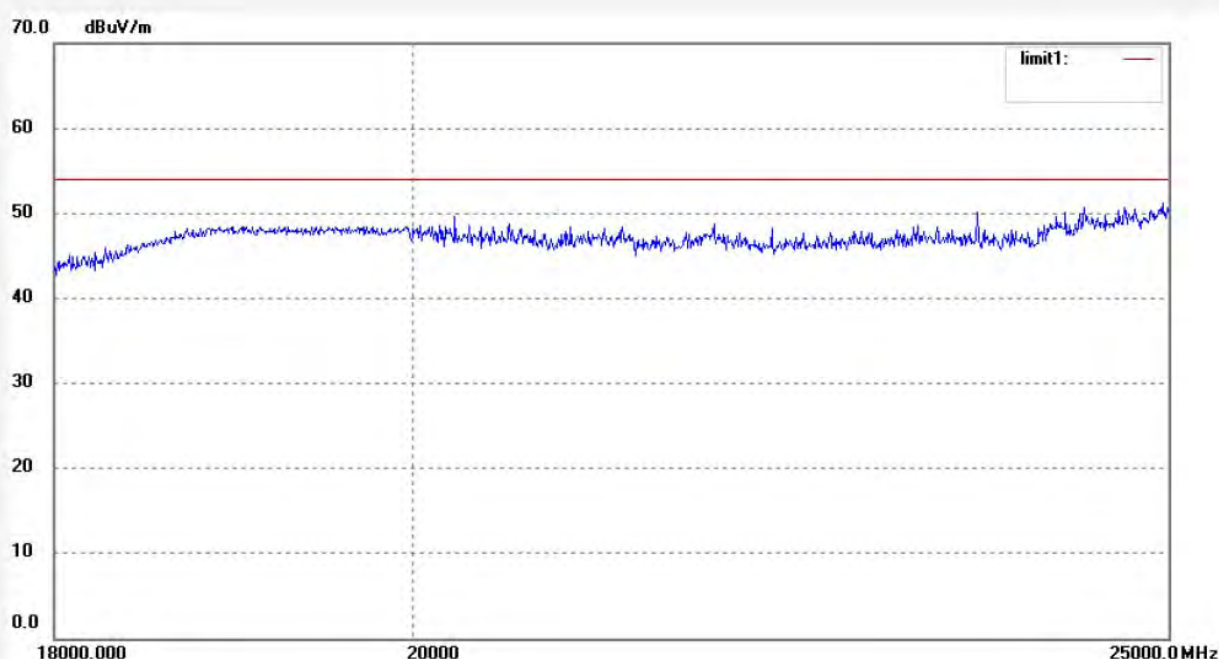
Date: 13/02/2/

Time: 10:57:05

Engineer Signature: Bob

Distance:

Note: Report No.: ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4782

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 3(802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Horizontal

Power Source: AC 120V/60Hz

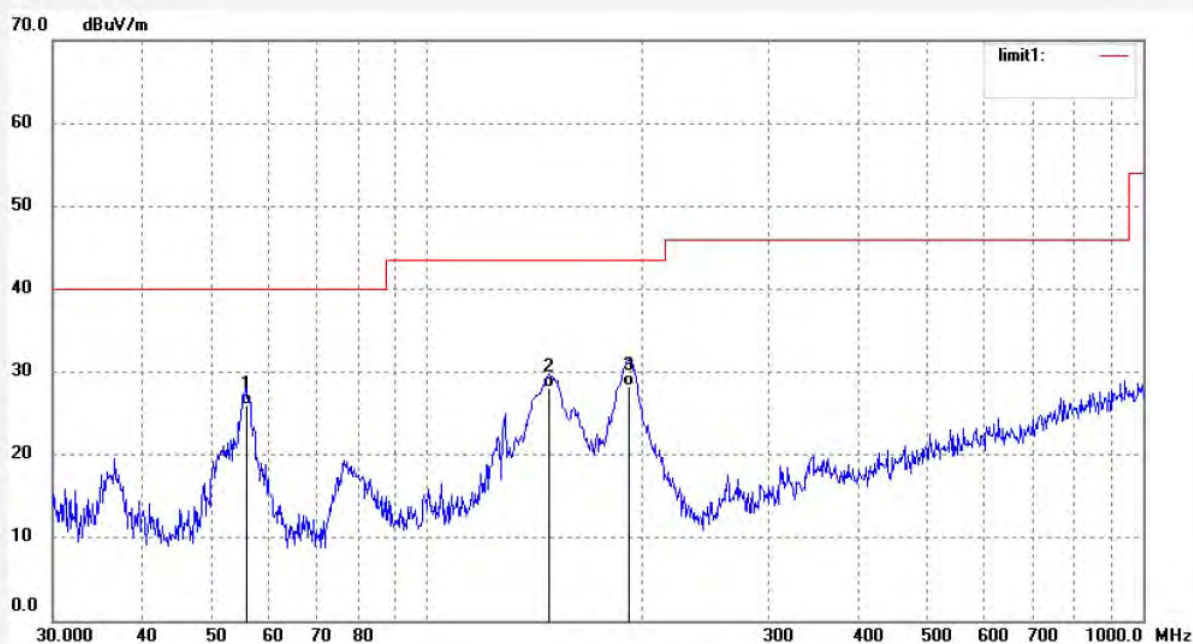
Date: 2013/02/01

Time: 11:00:01

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	55.8742	12.02	13.90	25.92	40.00	-14.08	QP			
2	148.3951	16.57	11.51	28.08	43.50	-15.42	QP			
3	190.4411	14.44	13.88	28.32	43.50	-15.18	QP			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4783

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 3(802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

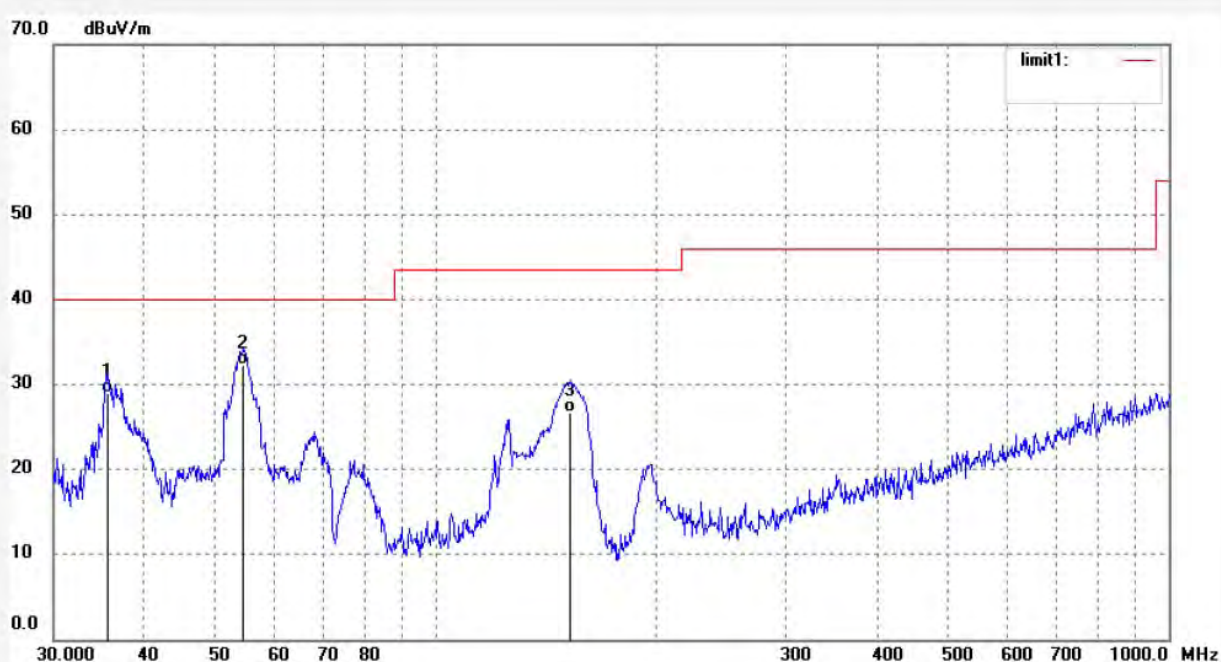
Date: 2013/02/01

Time: 11:02:51

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	35.3867	13.33	15.60	28.93	40.00	-11.07	QP			
2	54.5167	18.21	14.10	32.31	40.00	-7.69	QP			
3	152.6255	15.15	11.55	26.70	43.50	-16.80	QP			



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F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4759

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 3(802.11n)40MHz

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Horizontal

Power Source: AC 120V/60Hz

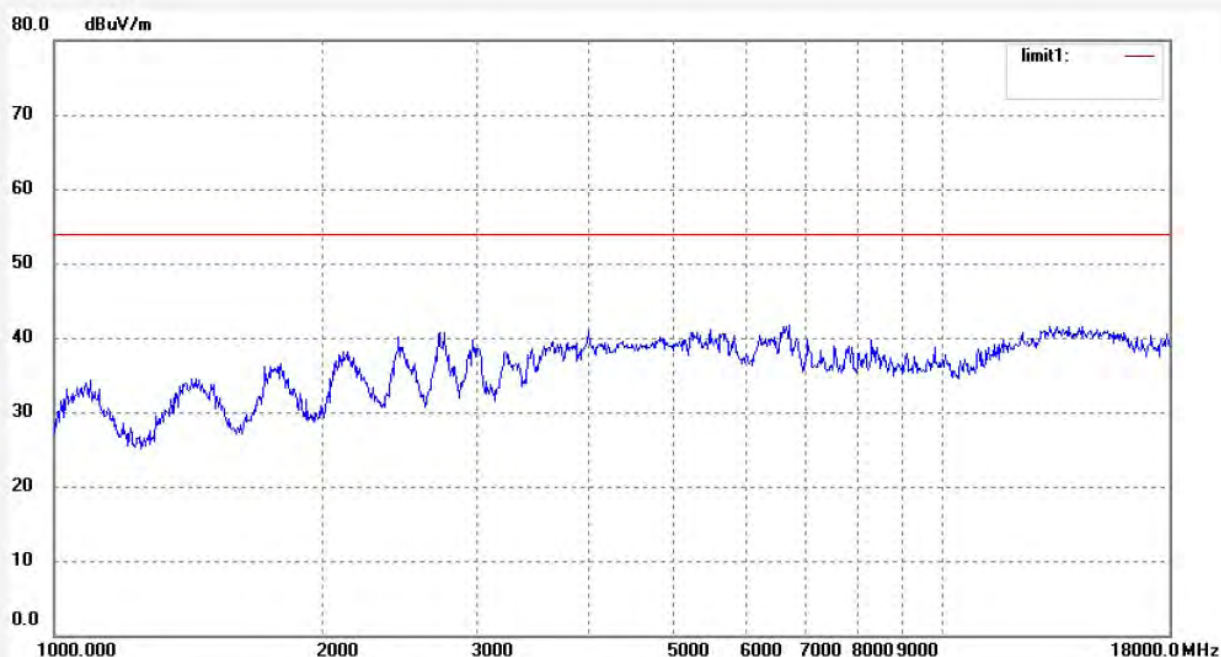
Date: 13/02/01

Time: 10/14/02

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4758

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 3(802.11n)40MHz

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

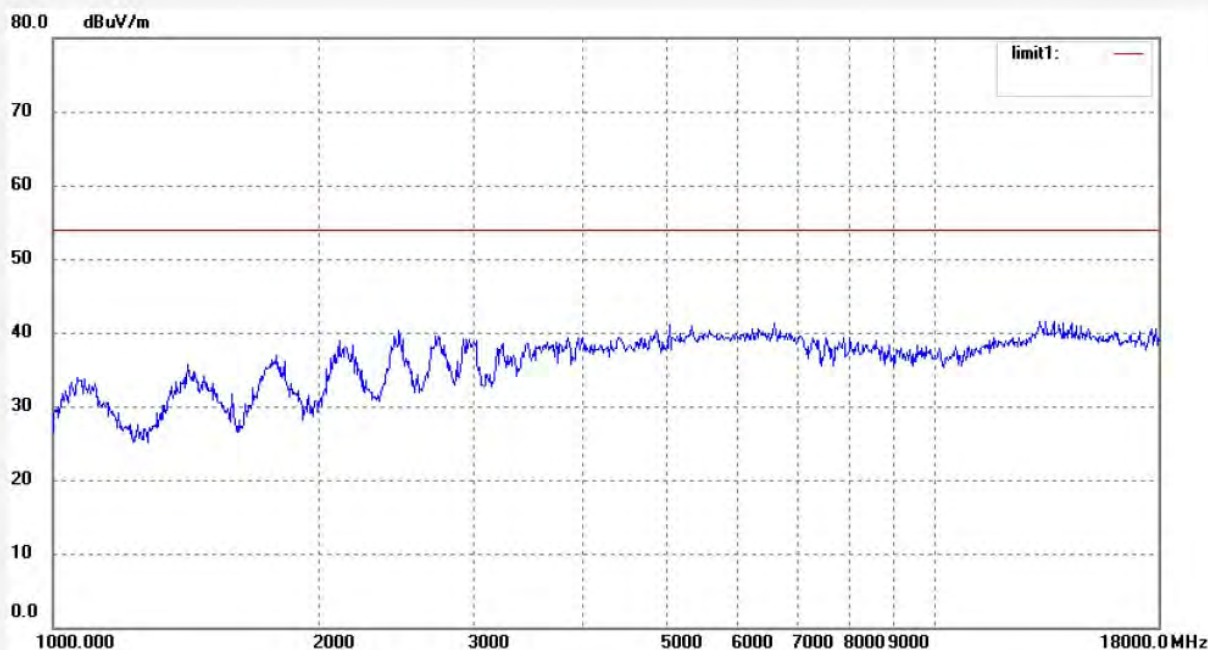
Date: 13/02/01

Time: 10/12/37

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #5916

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: MID

Mode: TX Channel 3 (802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Horizontal

Power Source: AC 120V/60Hz

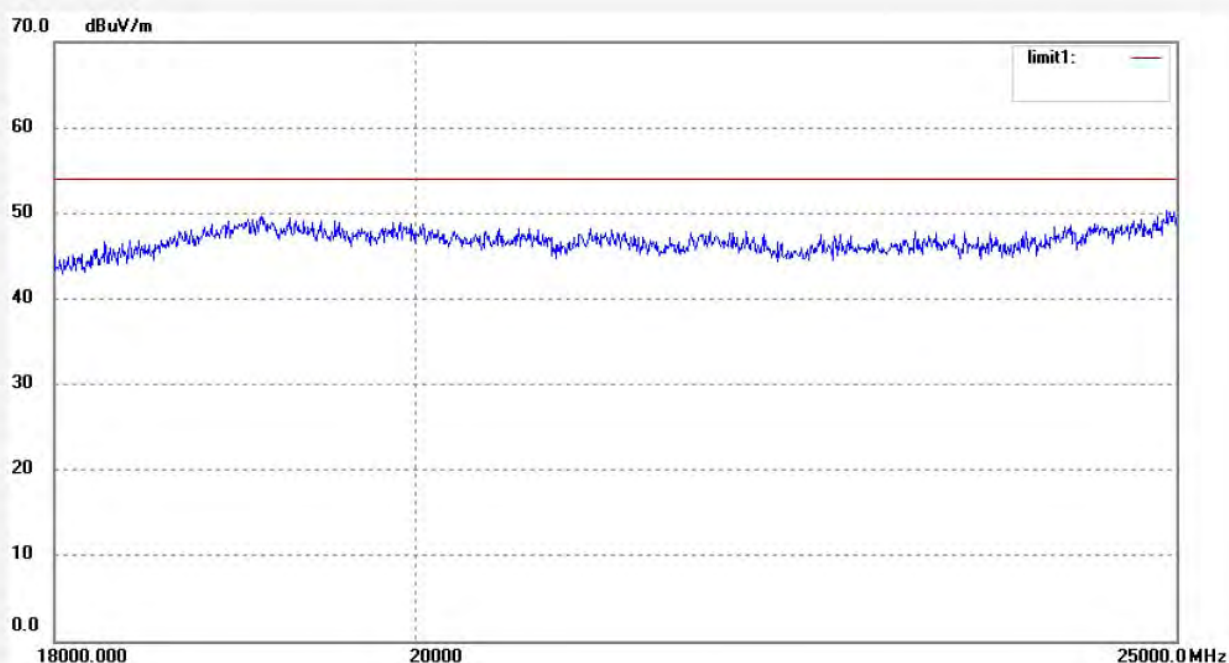
Date: 13/02/2/

Time: 11:52:09

Engineer Signature: Bob

Distance:

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #5917

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: MID

Mode: TX Channel 3 (802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

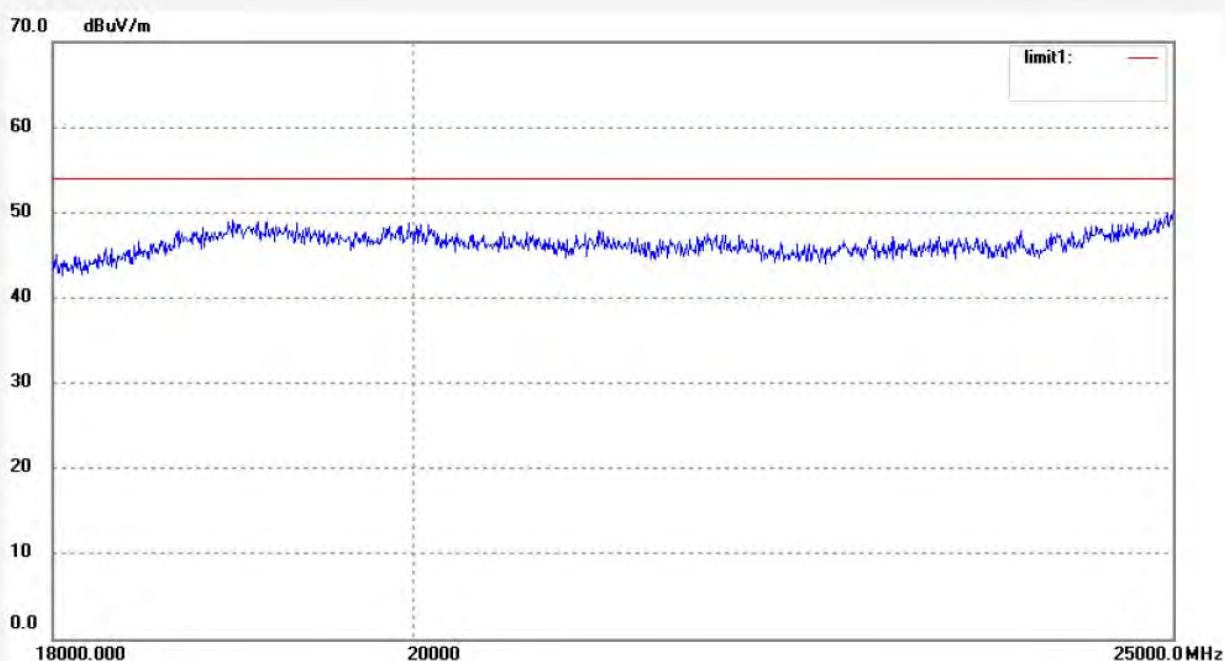
Date: 13/02/2/

Time: 11:56:43

Engineer Signature: Bob

Distance:

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
-----	----------------	---------------------	----------------	--------------------	-------------------	----------------	----------	----------------	------------------	--------



ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #4785

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 6(802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Horizontal

Power Source: AC 120V/60Hz

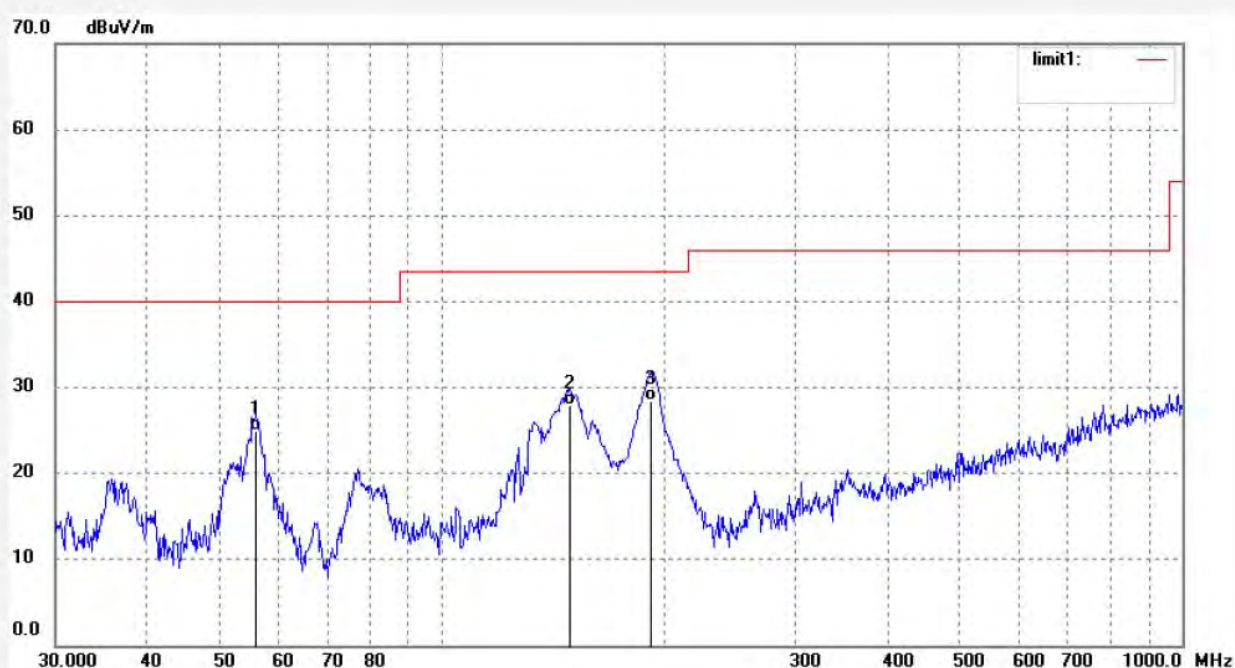
Date: 2013/02/01

Time: 11:06:28

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	56.0708	11.01	13.86	24.87	40.00	-15.13	QP			
2	148.9175	16.32	11.52	27.84	43.50	-15.66	QP			
3	191.1114	14.47	13.90	28.37	43.50	-15.13	QP			



ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4784

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 6(802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

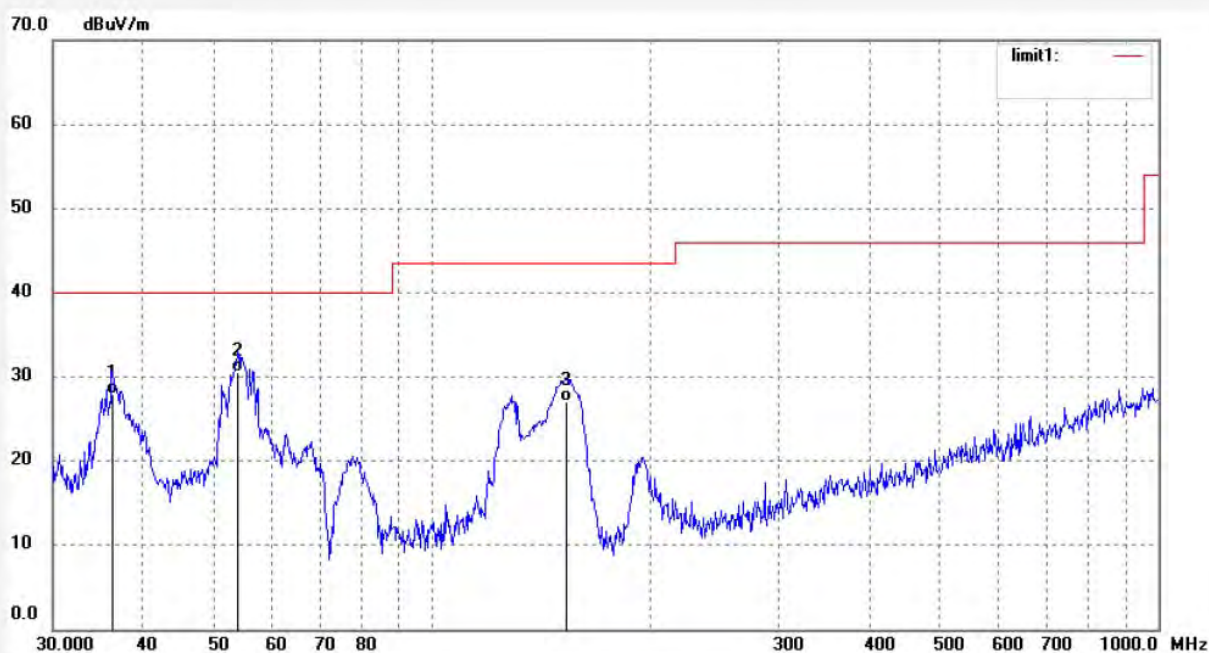
Date: 2013/02/01

Time: 11:04:21

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	36.2678	12.51	15.40	27.91	40.00	-12.09	QP			
2	53.9451	16.32	14.15	30.47	40.00	-9.53	QP			
3	153.1627	15.55	11.55	27.10	43.50	-16.40	QP			



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4760

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 6(802.11n)40MHz

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Horizontal

Power Source: AC 120V/60Hz

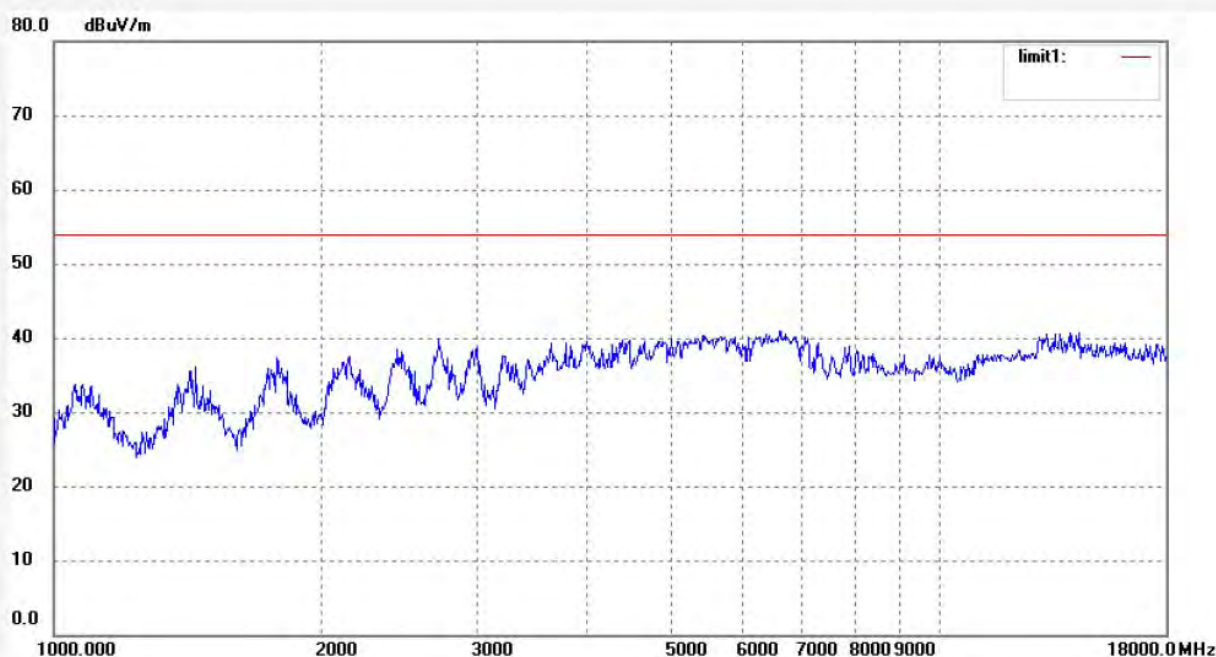
Date: 13/02/01

Time: 10/16/34

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4761

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 6(802.11n)40MHz

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

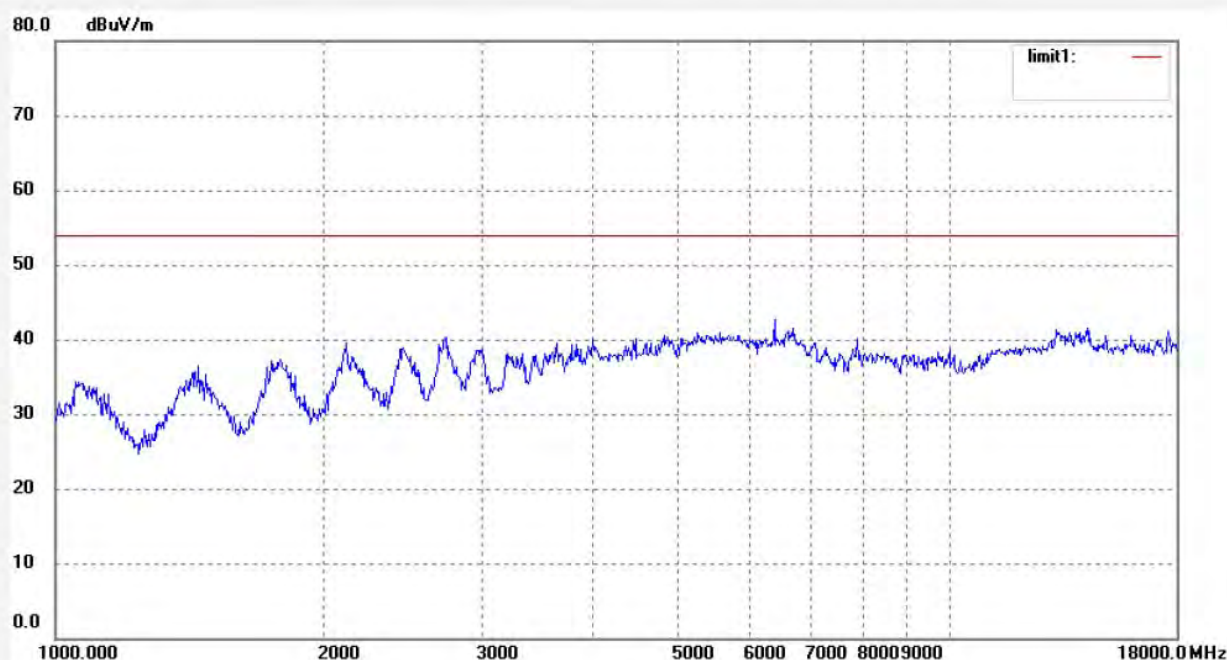
Date: 13/02/01

Time: 10/18/09

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #5919

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: MID

Mode: TX Channel 6 (802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Horizontal

Power Source: AC 120V/60Hz

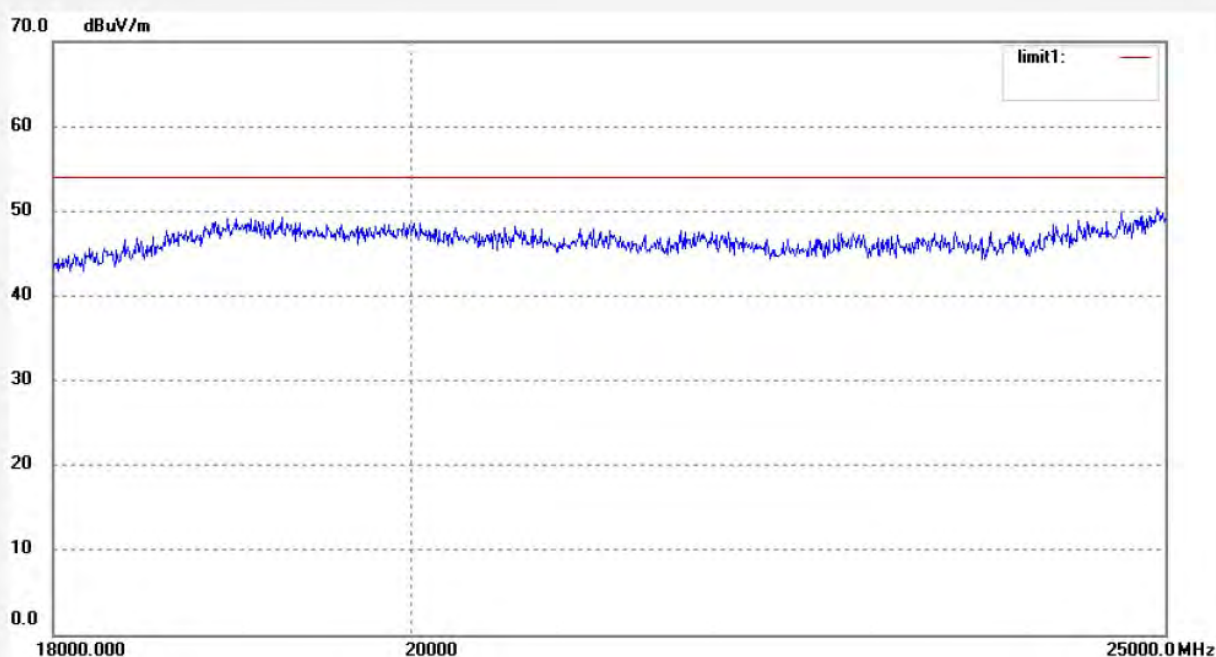
Date: 13/02/2/

Time: 12:05:30

Engineer Signature: Bob

Distance:

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #5918

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: MID

Mode: TX Channel 6 (802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

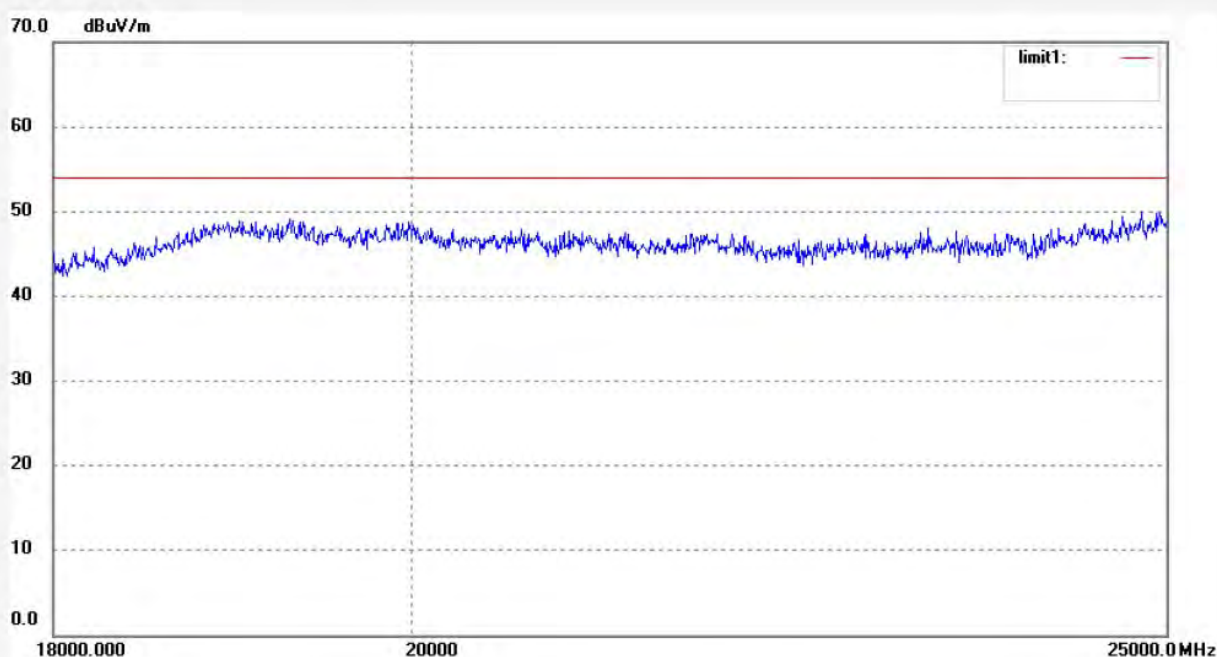
Date: 13/02/2/

Time: 12:01:19

Engineer Signature: Bob

Distance:

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #4786

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 9(802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Horizontal

Power Source: AC 120V/60Hz

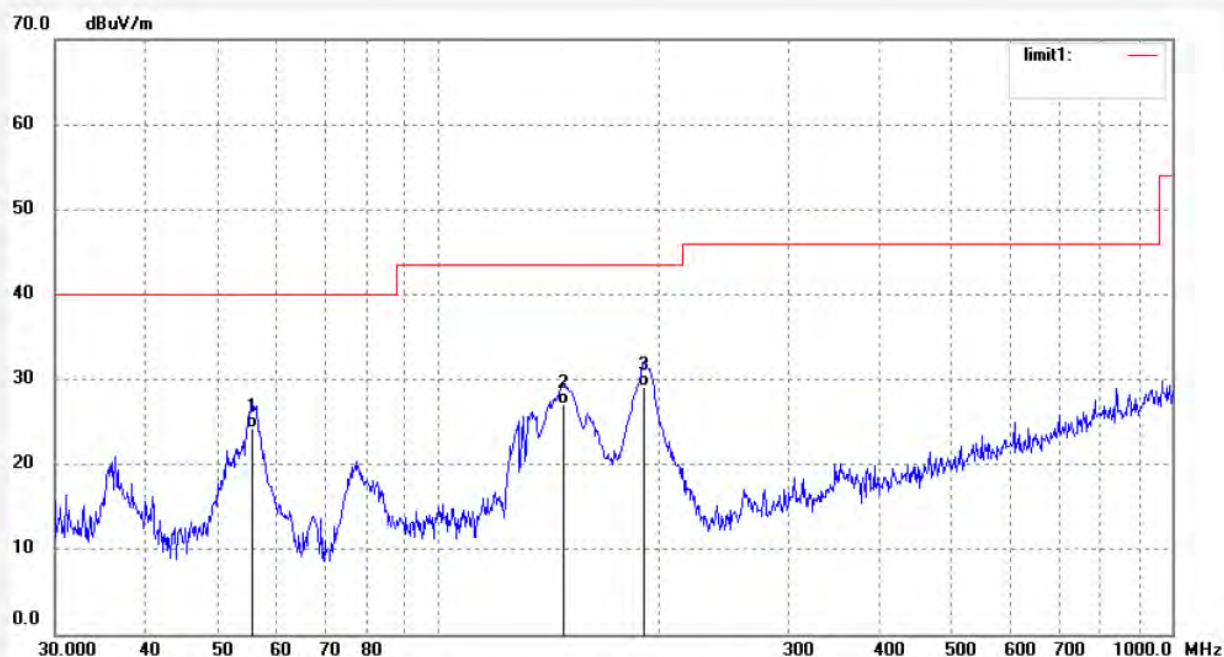
Date: 2013/02/01

Time: 11:08:02

Engineer Signature:

Distance: 3m

Note: Report No.: ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	55.6782	10.33	13.94	24.27	40.00	-15.73	QP			
2	147.8747	15.54	11.51	27.05	43.50	-16.45	QP			
3	190.4411	15.21	13.88	29.09	43.50	-14.41	QP			



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Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4787

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 9(802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

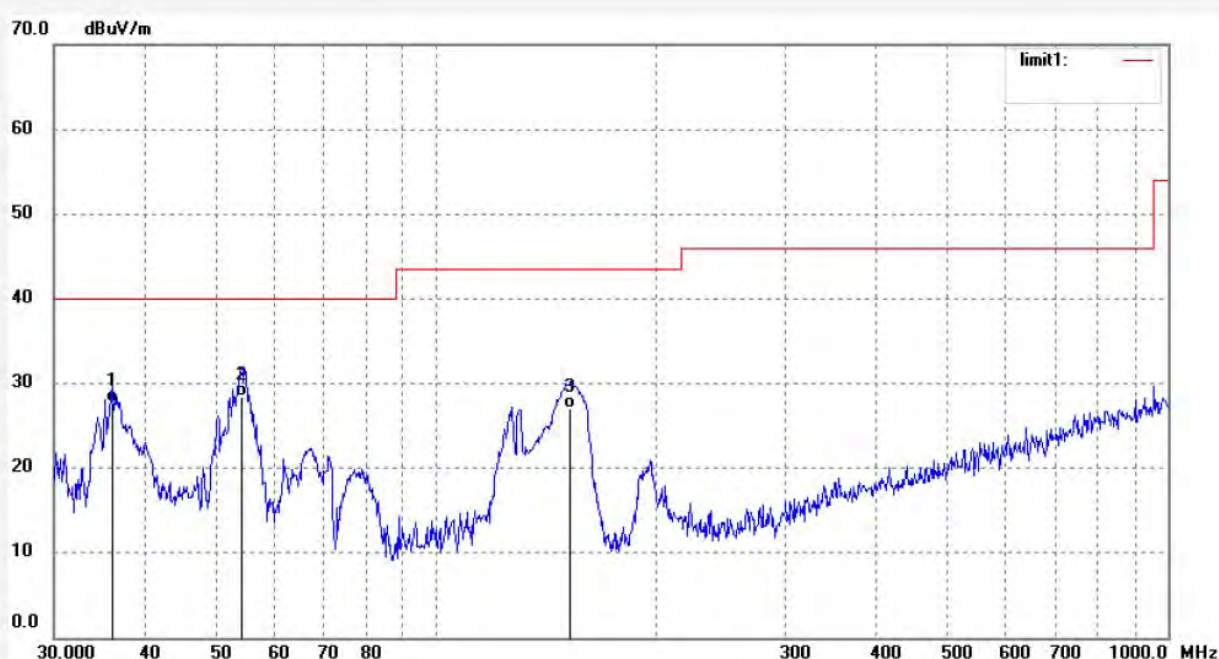
Date: 2013/02/01

Time: 11:10:41

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	36.0139	12.22	15.46	27.68	40.00	-12.32	QP			
2	54.1349	14.32	14.14	28.46	40.00	-11.54	QP			
3	152.6255	15.47	11.55	27.02	43.50	-16.48	QP			



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Site: 2# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #4763

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 9(802.11n)40MHz

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Horizontal

Power Source: AC 120V/60Hz

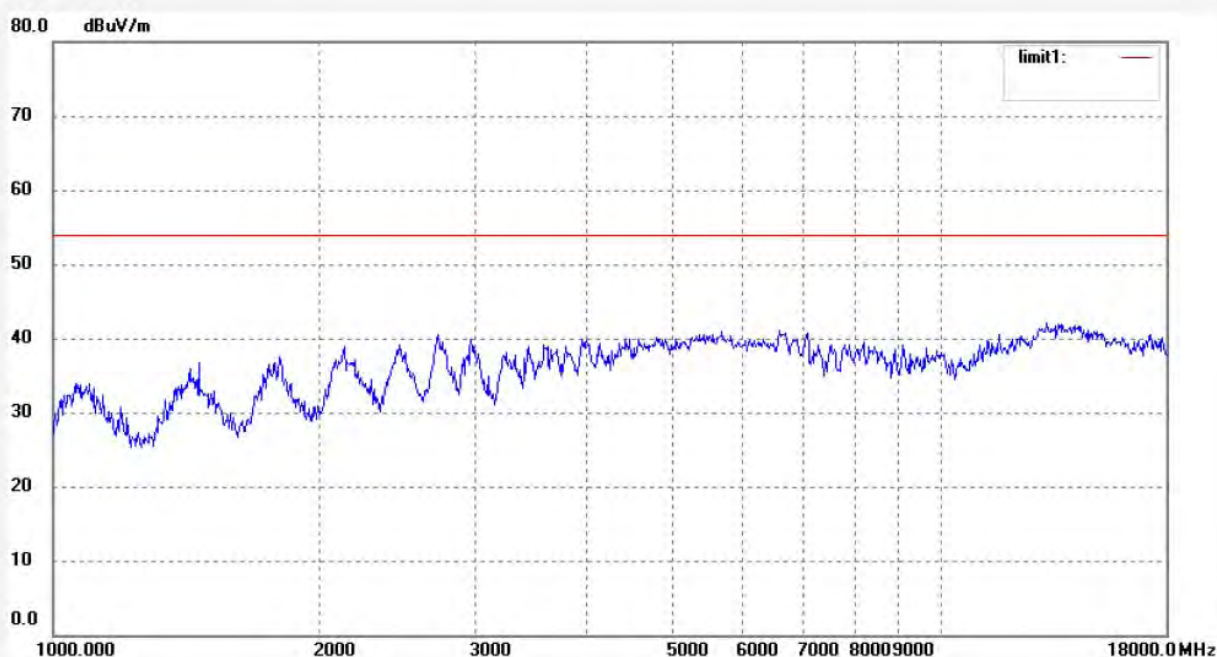
Date: 13/02/01

Time: 10/22/55

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: Bob #4762

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 26 C / 55 %

EUT: MID

Mode: Channel 9(802.11n)40MHz

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

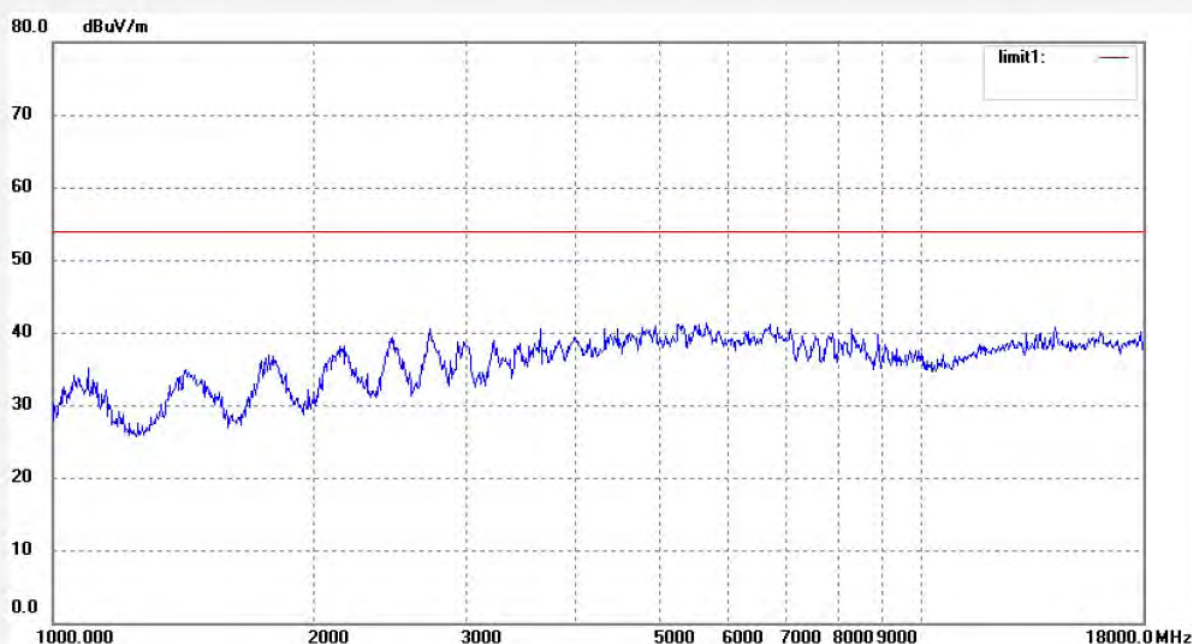
Date: 13/02/01

Time: 10/20/11

Engineer Signature:

Distance: 3m

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #5920

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: MID

Mode: TX Channel 9 (802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Horizontal

Power Source: AC 120V/60Hz

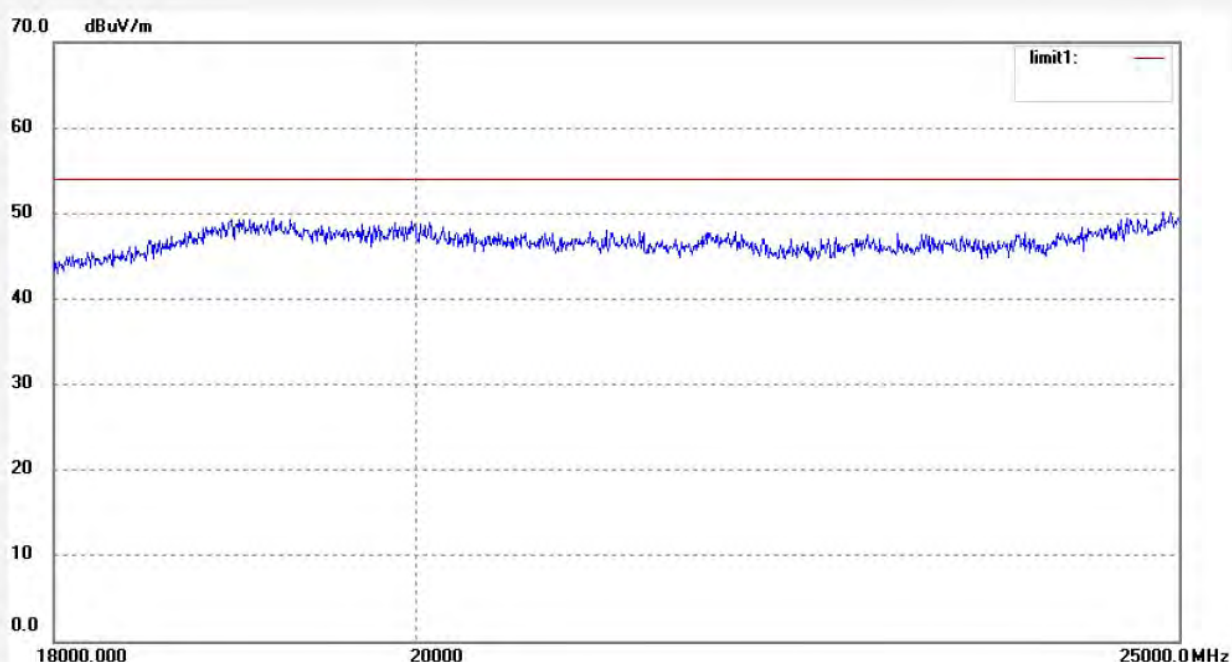
Date: 13/02/2/

Time: 12:10:41

Engineer Signature: Bob

Distance:

Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 966 chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: Bob #5921

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.(C)/Hum.(%) 25 C / 50 %

EUT: MID

Mode: TX Channel 9 (802.11n)

Model: VX-S7001

Manufacturer: Sungworld

Polarization: Vertical

Power Source: AC 120V/60Hz

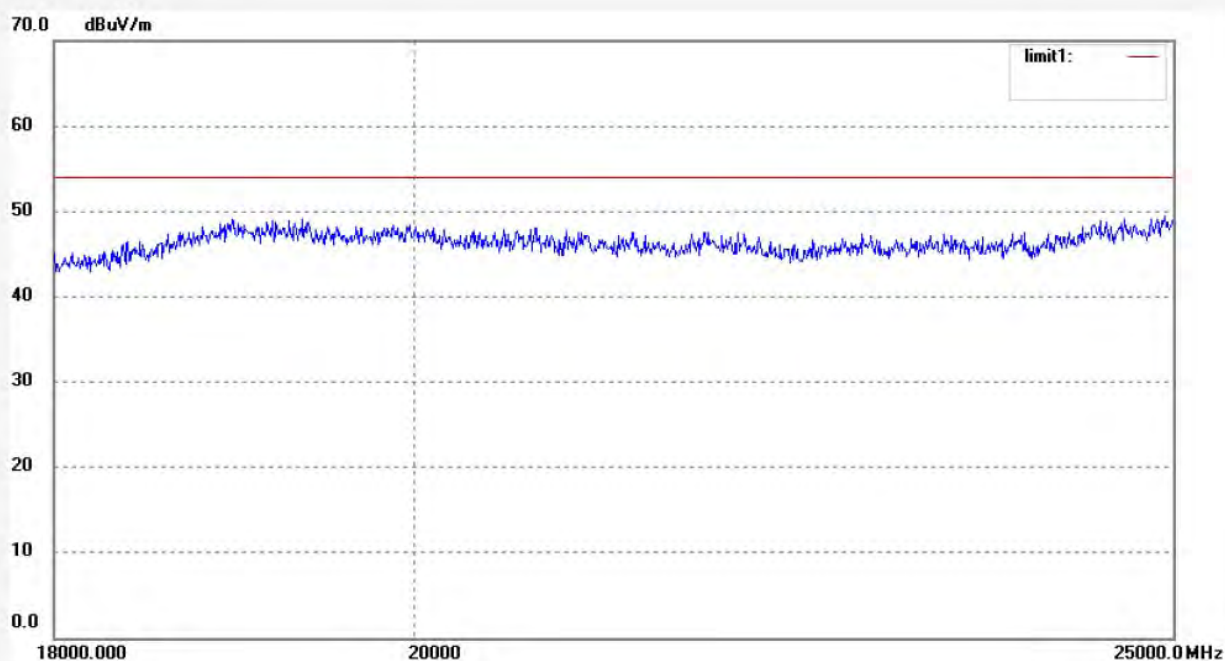
Date: 13/02/2/

Time: 12:15:08

Engineer Signature: Bob

Distance:

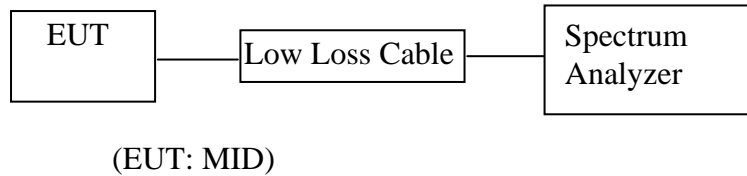
Note: Report No.:ATE20130172



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
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10.CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

10.1.Block Diagram of Test Setup



10.2.The Requirement For Section 15.247(d)

Section 15.247(d): 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. 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).

10.3.EUT Configuration on Measurement

The following equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.3.1.MID (EUT)

Model Number	:	VX-S7001
Serial Number	:	N/A
Manufacturer	:	Shenzhen Sungworld Electronics Co., Ltd.

10.4.Operating Condition of EUT

10.4.1.Setup the EUT and simulator as shown as Section 10.1.

10.4.2.Turn on the power of all equipment.

10.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

10.5.Test Procedure

10.5.1.The transmitter output was connected to the spectrum analyzer via a low loss cable.

10.5.2.Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz (below 1GHz).

10.5.3.Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz (above 1GHz).

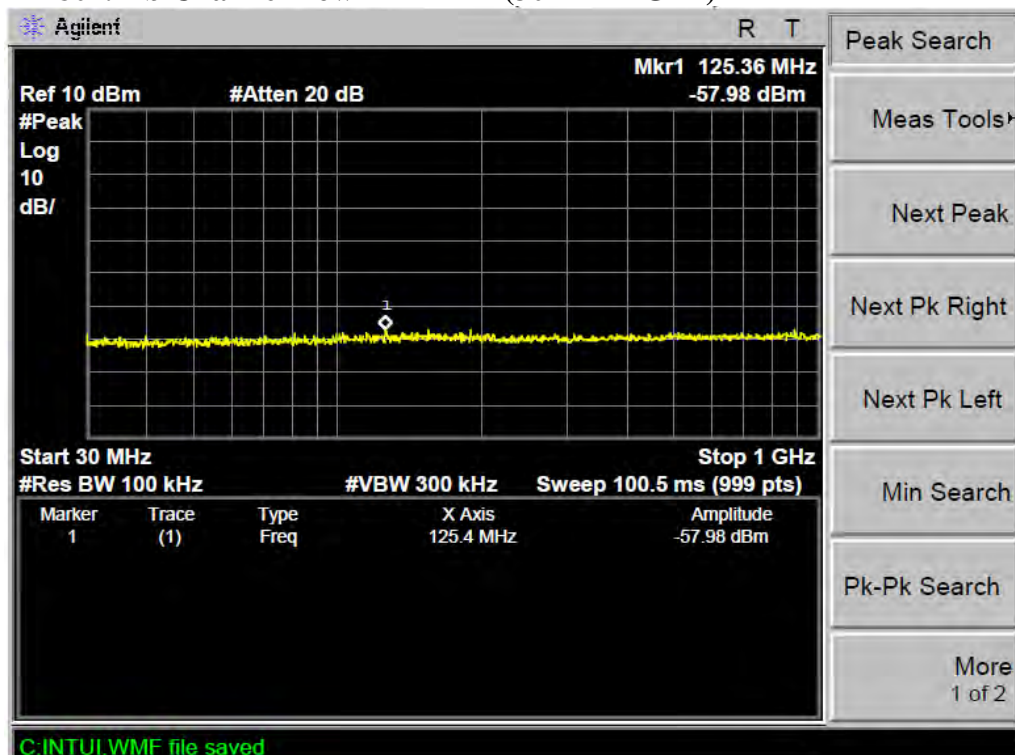
10.5.4.The Conducted Spurious Emission was measured and recorded.

10.6.Test Result

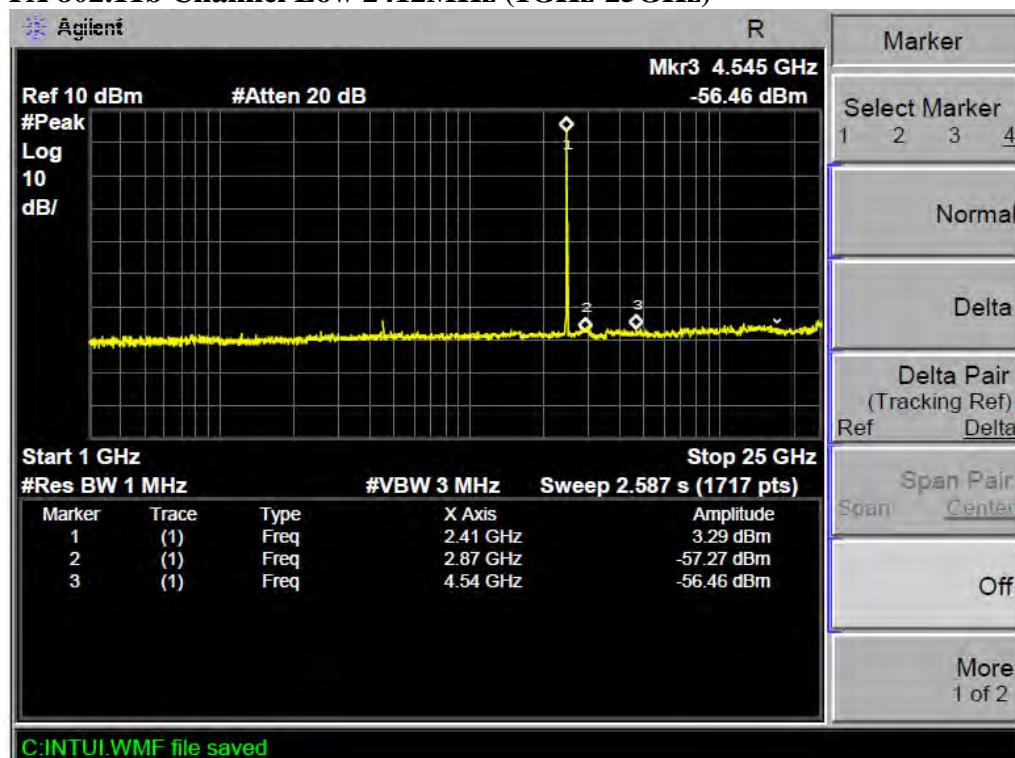
Pass.

The spectrum analyzer plots are attached as below.

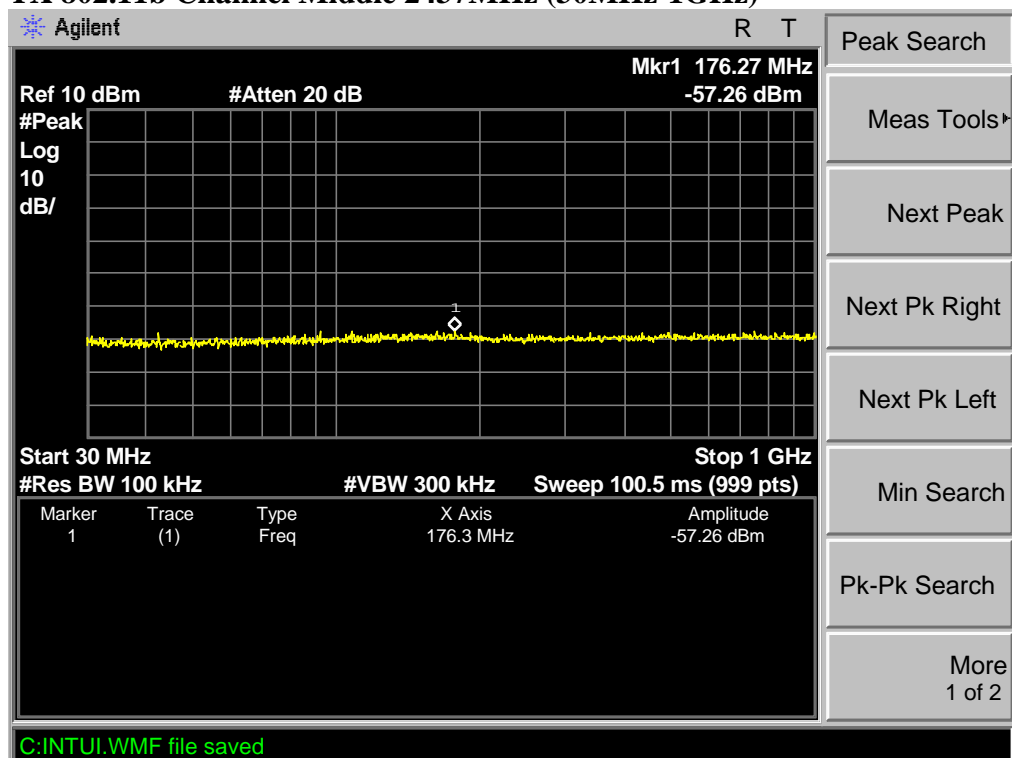
TX 802.11b Channel Low 2412MHz (30MHz-1GHz)



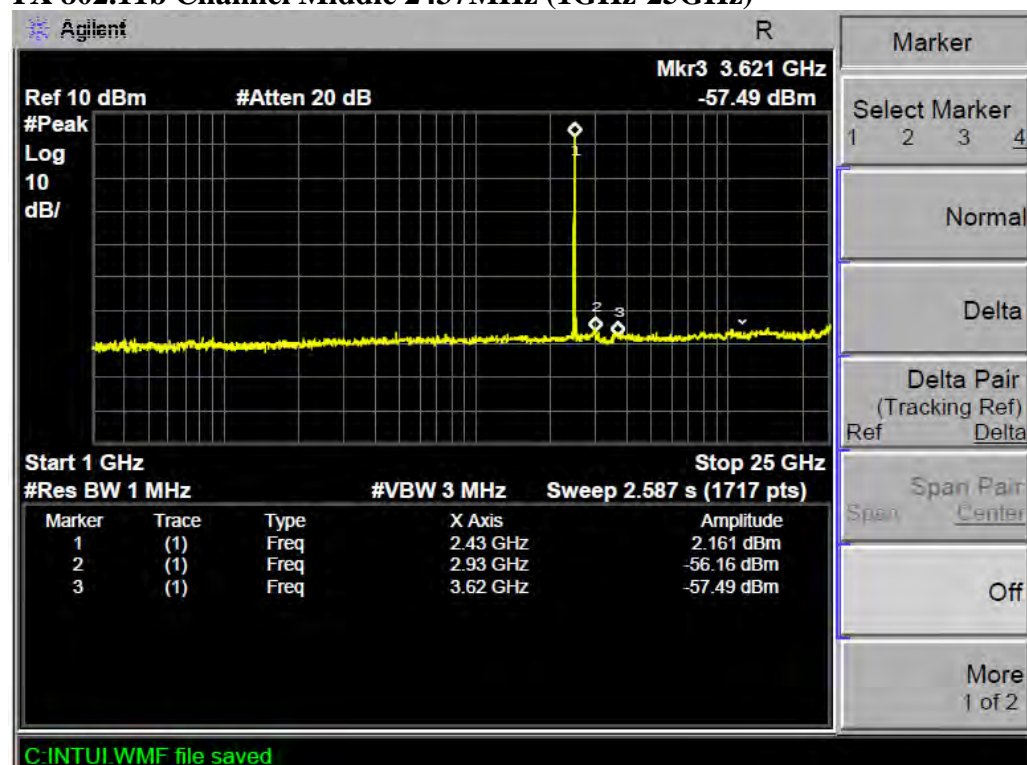
TX 802.11b Channel Low 2412MHz (1GHz-25GHz)



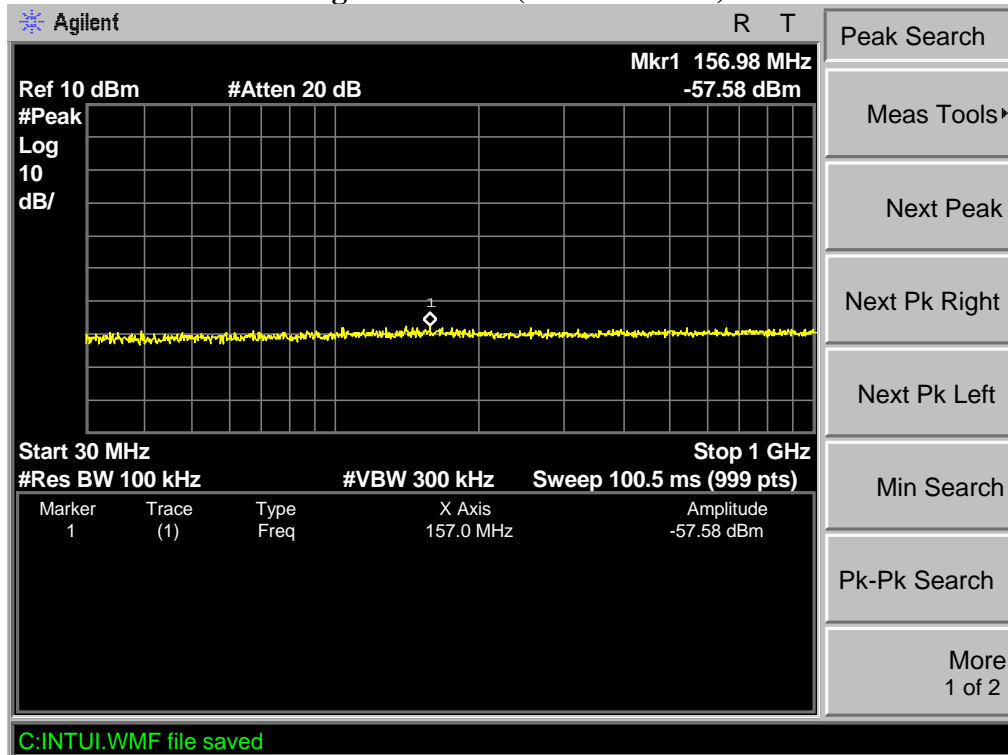
TX 802.11b Channel Middle 2437MHz (30MHz-1GHz)



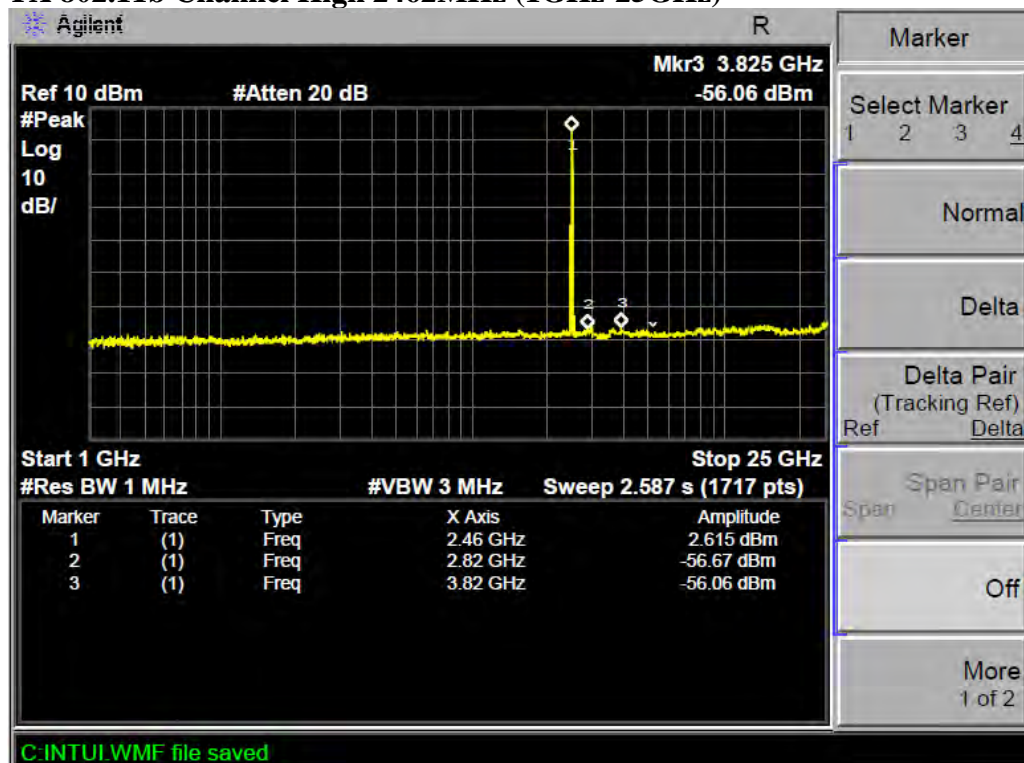
TX 802.11b Channel Middle 2437MHz (1GHz-25GHz)



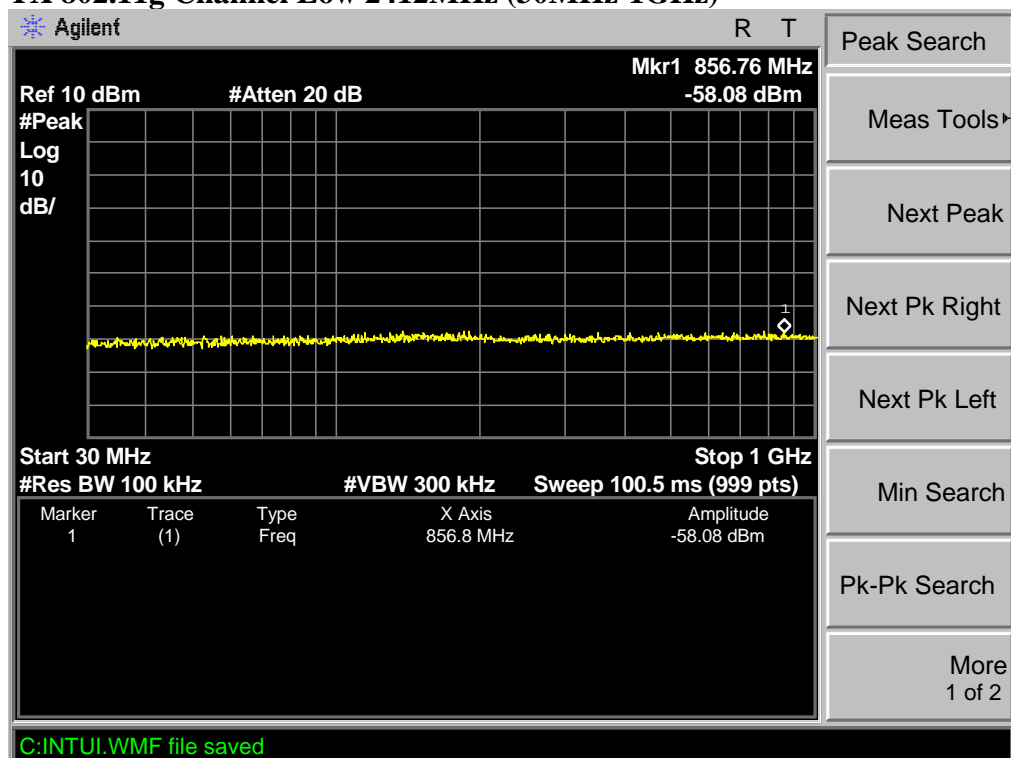
TX 802.11b Channel High 2462MHz (30MHz-1GHz)



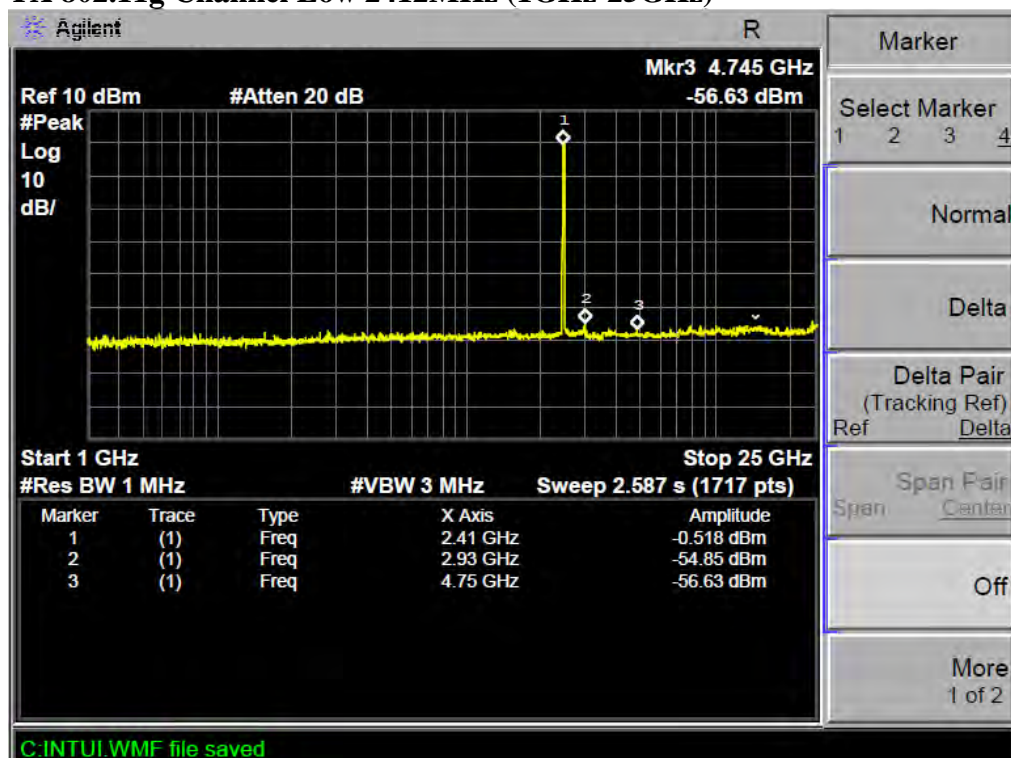
TX 802.11b Channel High 2462MHz (1GHz-25GHz)



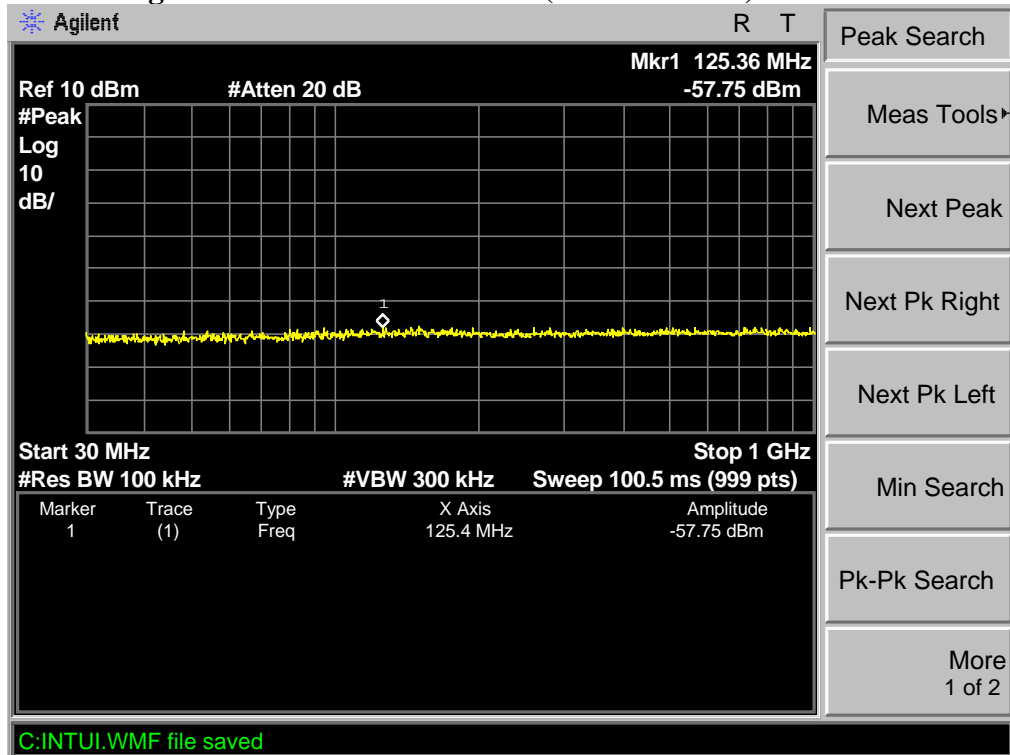
TX 802.11g Channel Low 2412MHz (30MHz-1GHz)



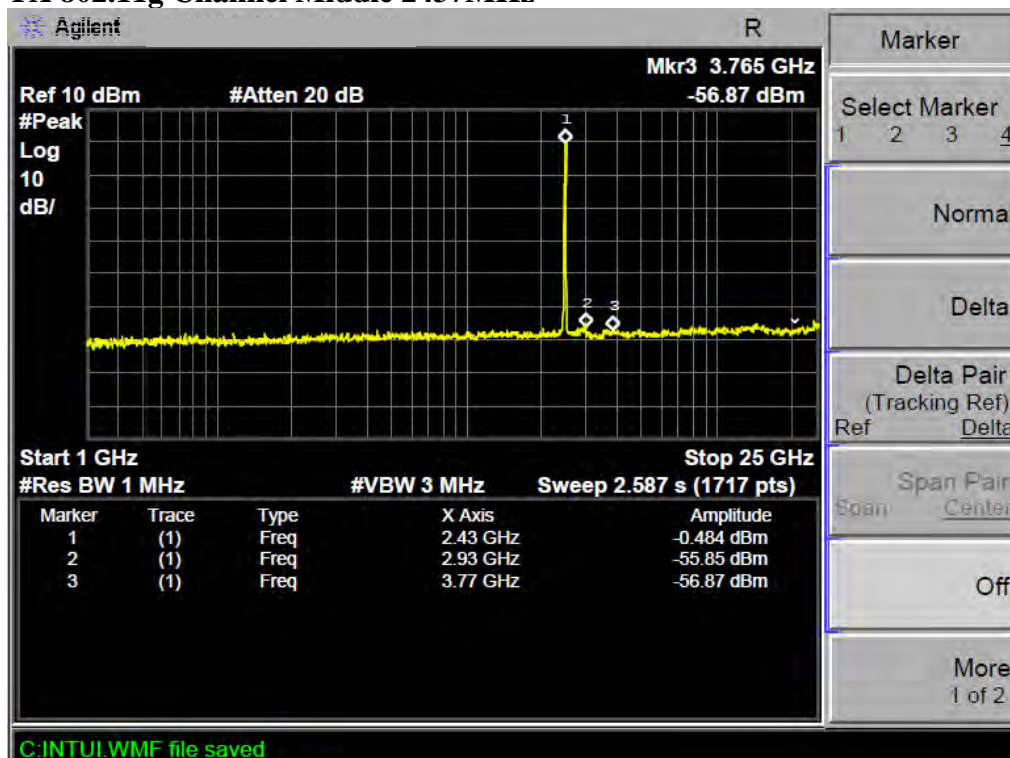
TX 802.11g Channel Low 2412MHz (1GHz-25GHz)



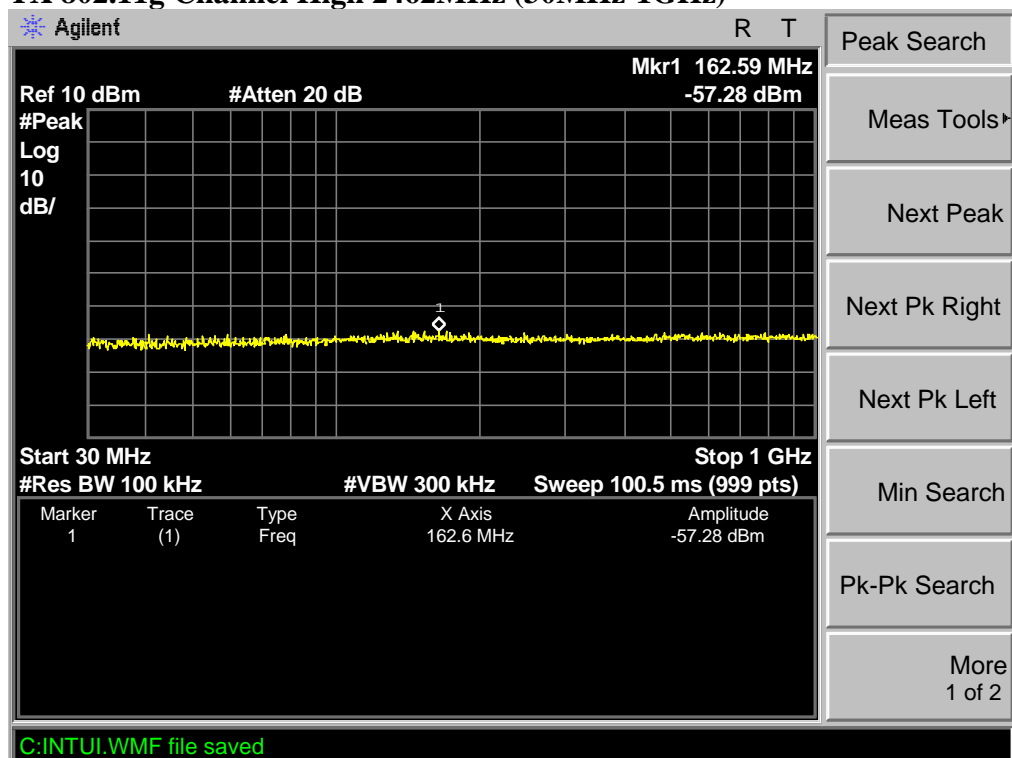
TX 802.11g Channel Middle 2437MHz (30MHz-1GHz)



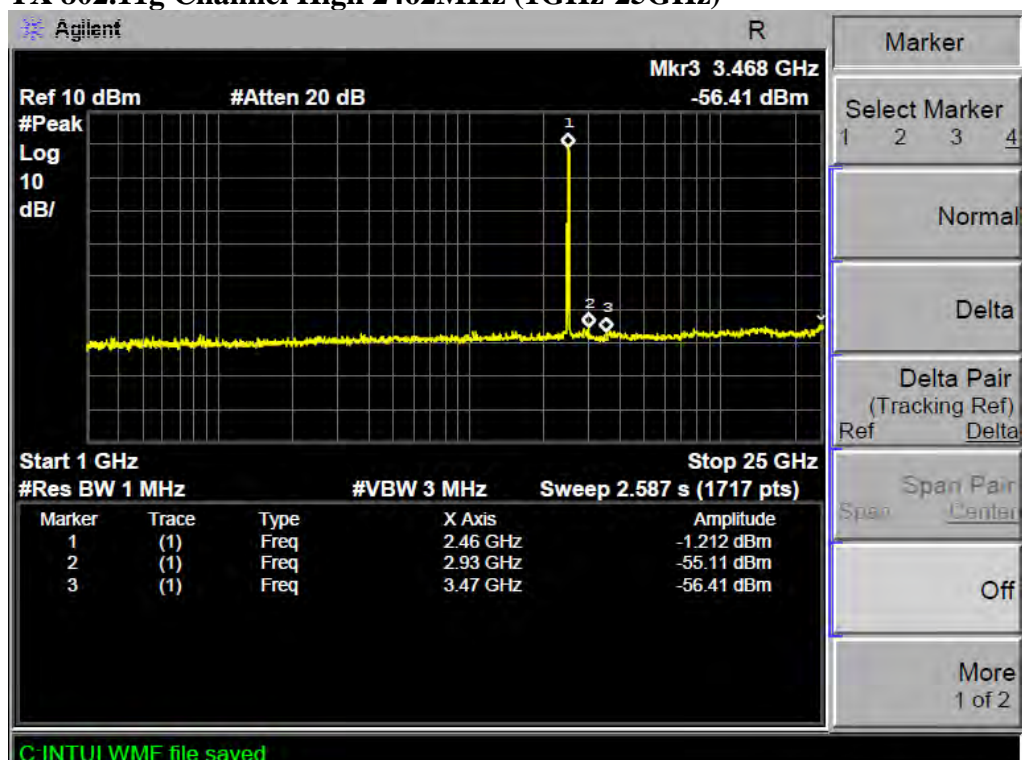
TX 802.11g Channel Middle 2437MHz



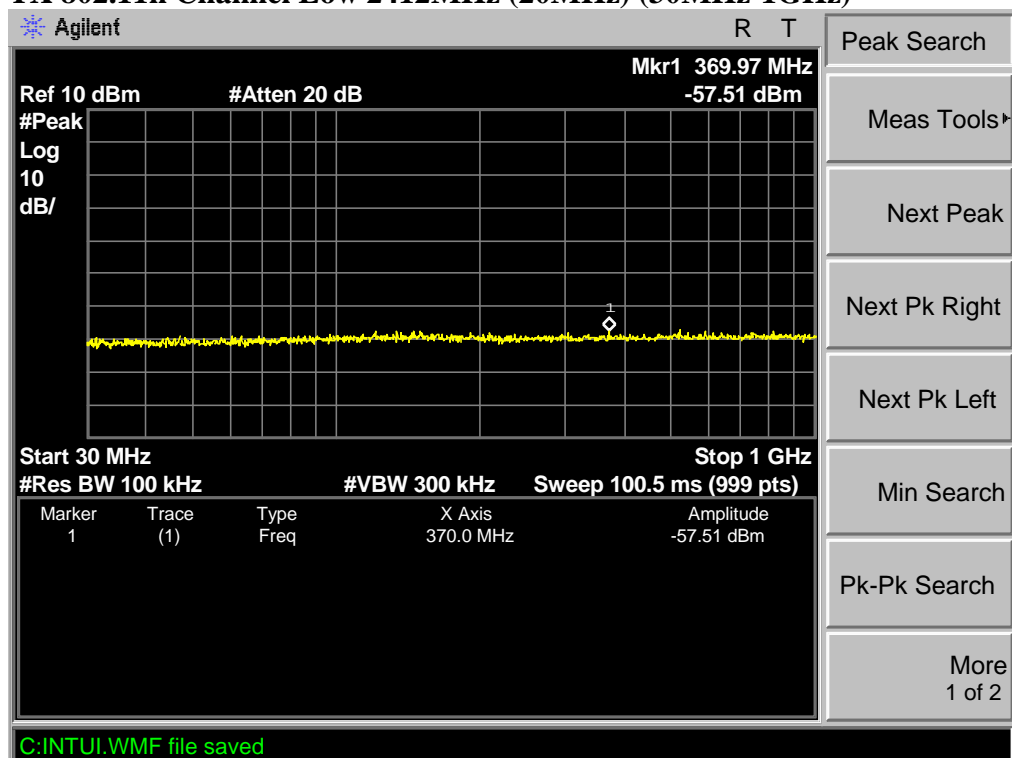
TX 802.11g Channel High 2462MHz (30MHz-1GHz)



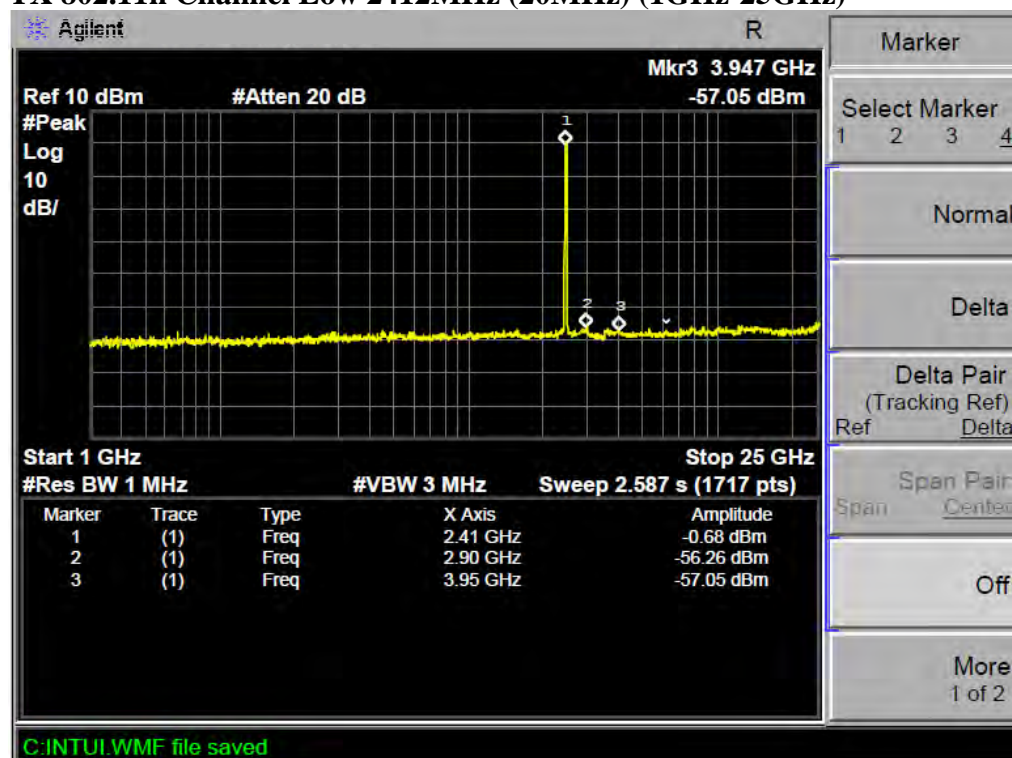
TX 802.11g Channel High 2462MHz (1GHz-25GHz)



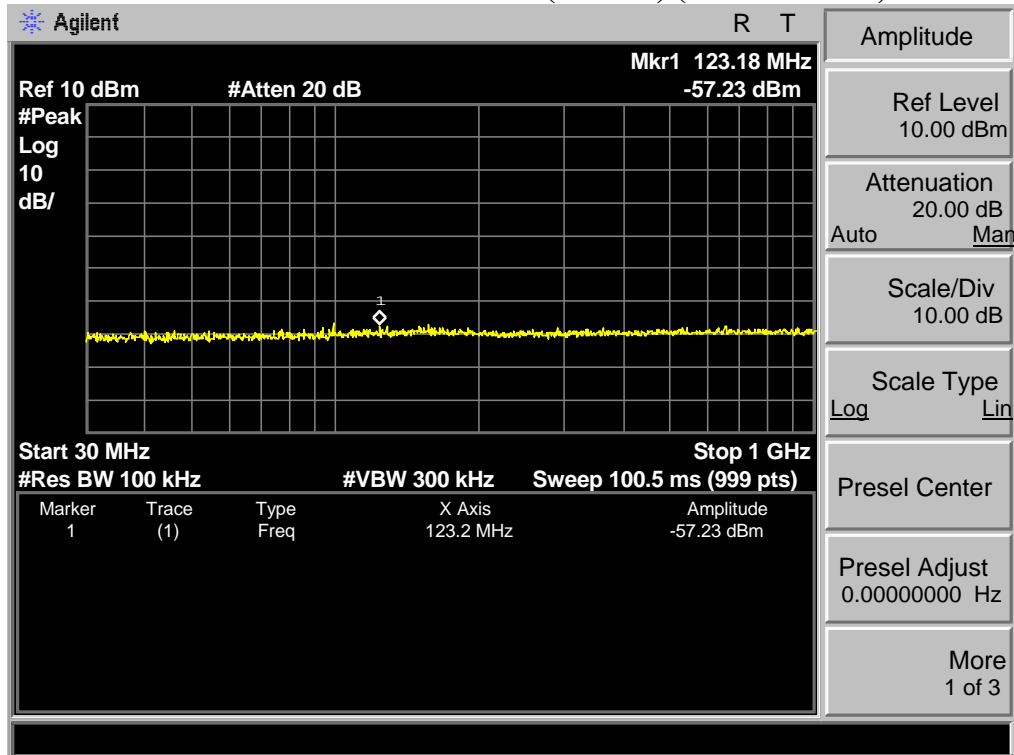
TX 802.11n Channel Low 2412MHz (20MHz) (30MHz-1GHz)



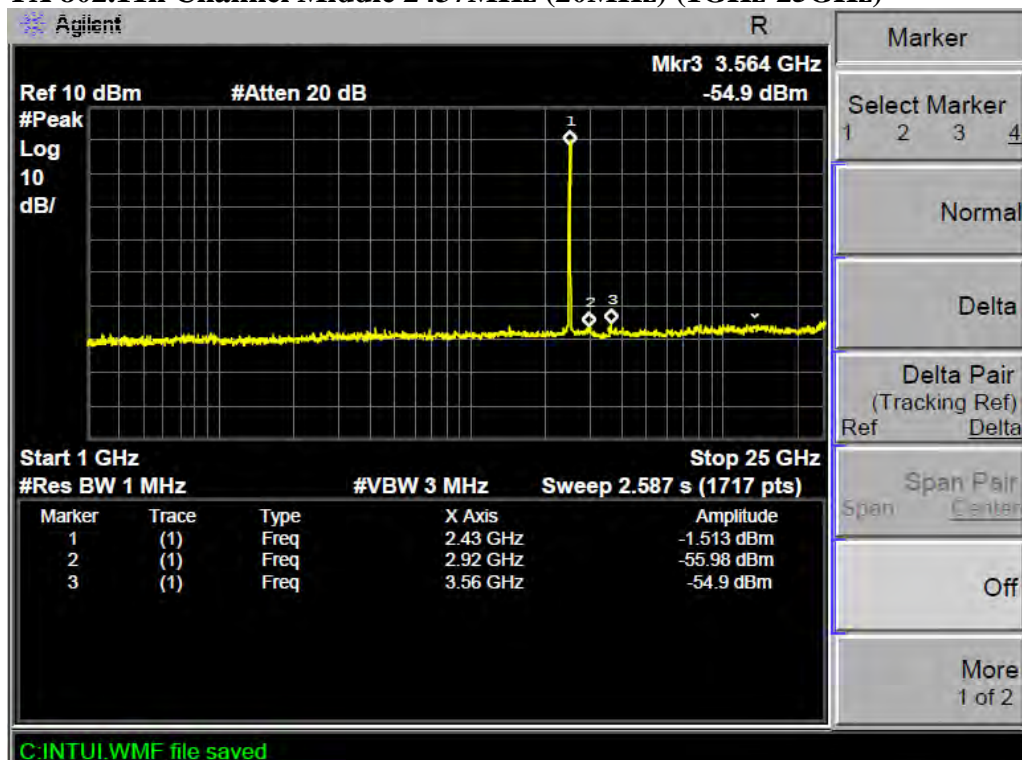
TX 802.11n Channel Low 2412MHz (20MHz) (1GHz-25GHz)



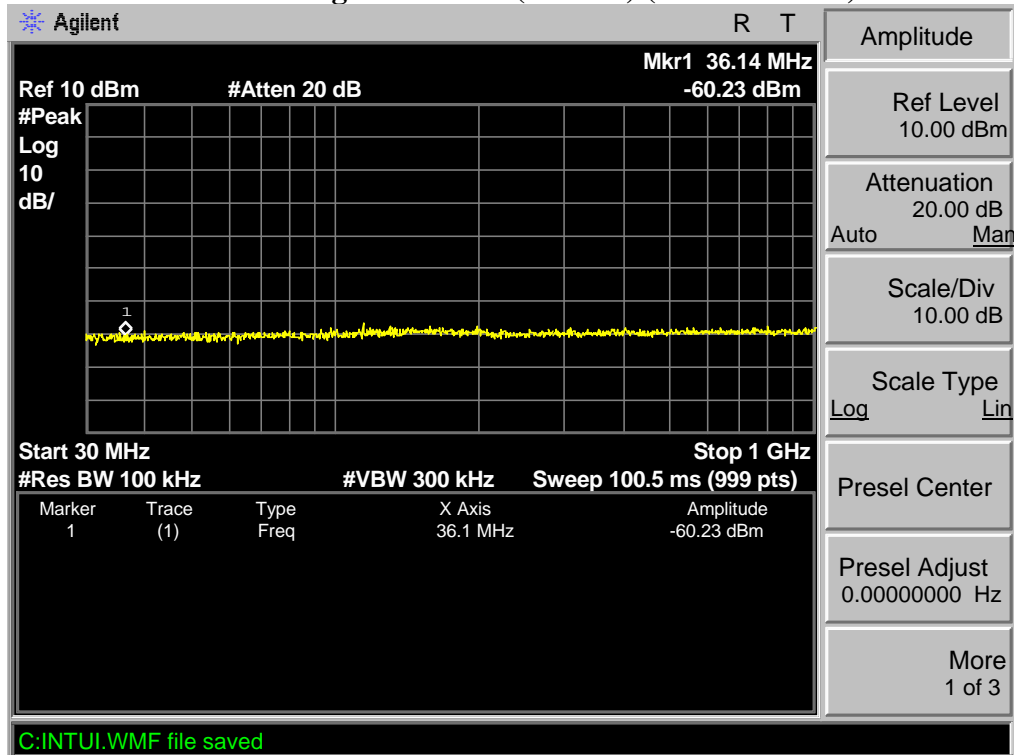
TX 802.11n Channel Middle 2437MHz (20MHz) (30MHz-1GHz)



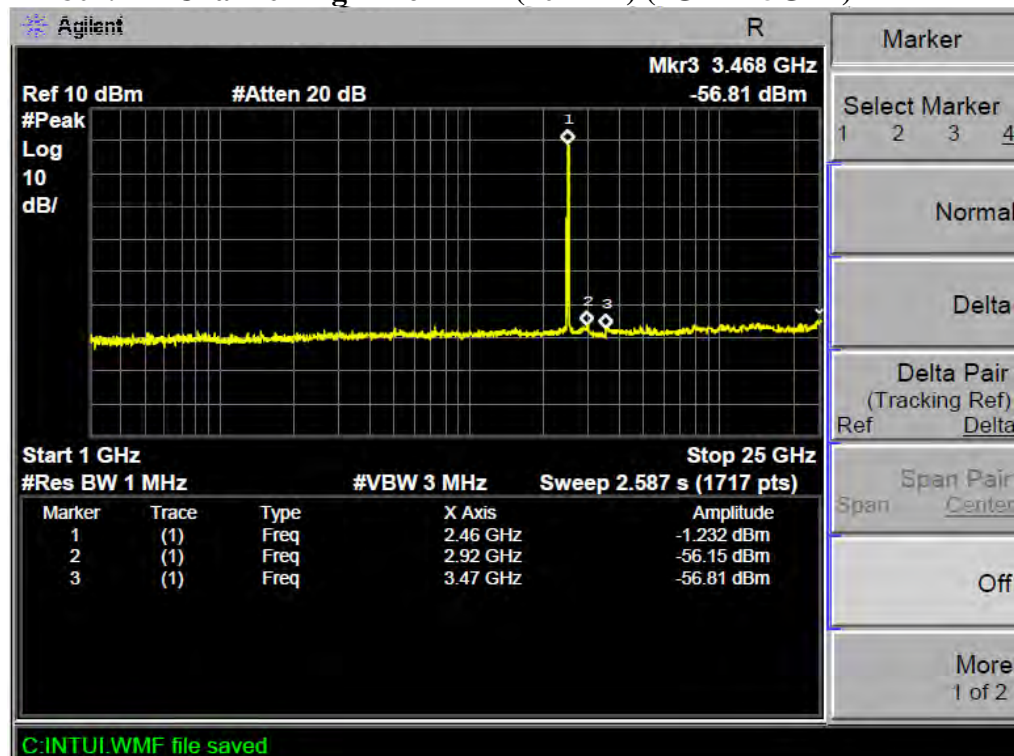
TX 802.11n Channel Middle 2437MHz (20MHz) (1GHz-25GHz)



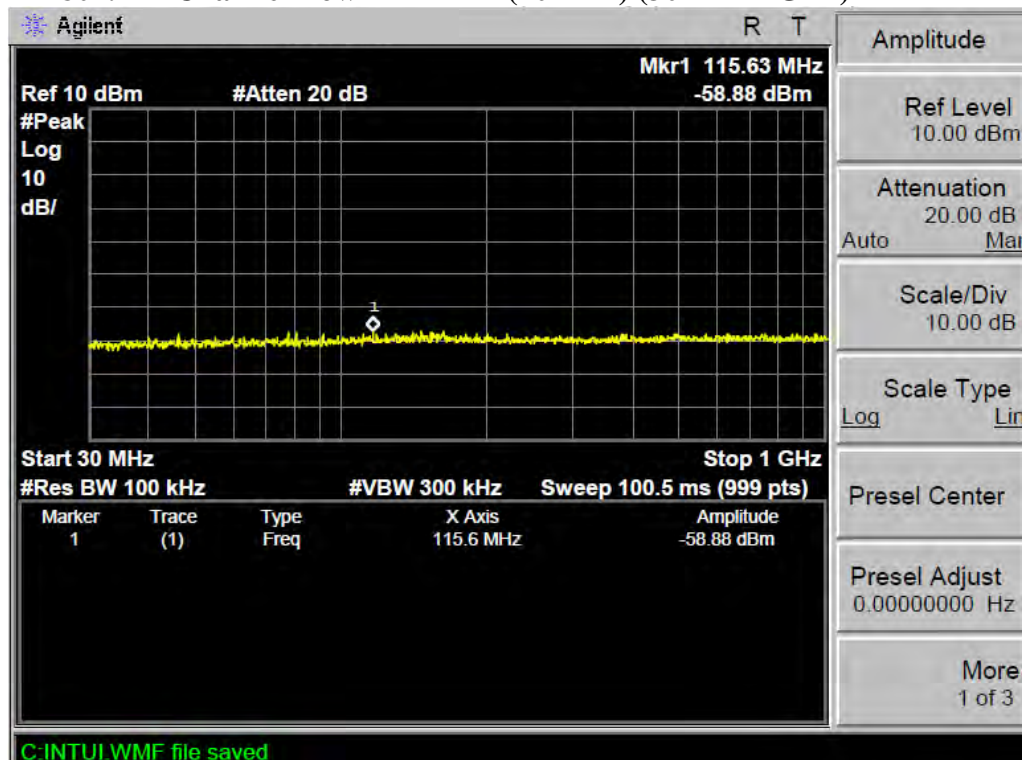
TX 802.11n Channel High 2462MHz (20MHz) (30MHz-1GHz)



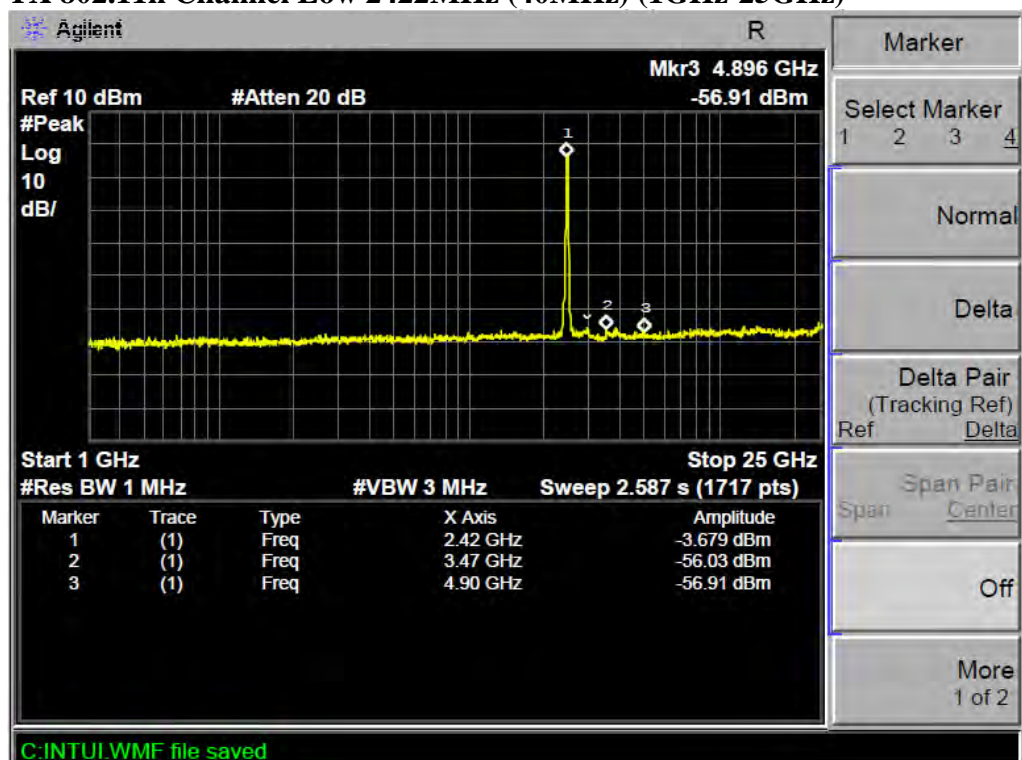
TX 802.11n Channel High 2462MHz (20MHz) (1GHz-25GHz)



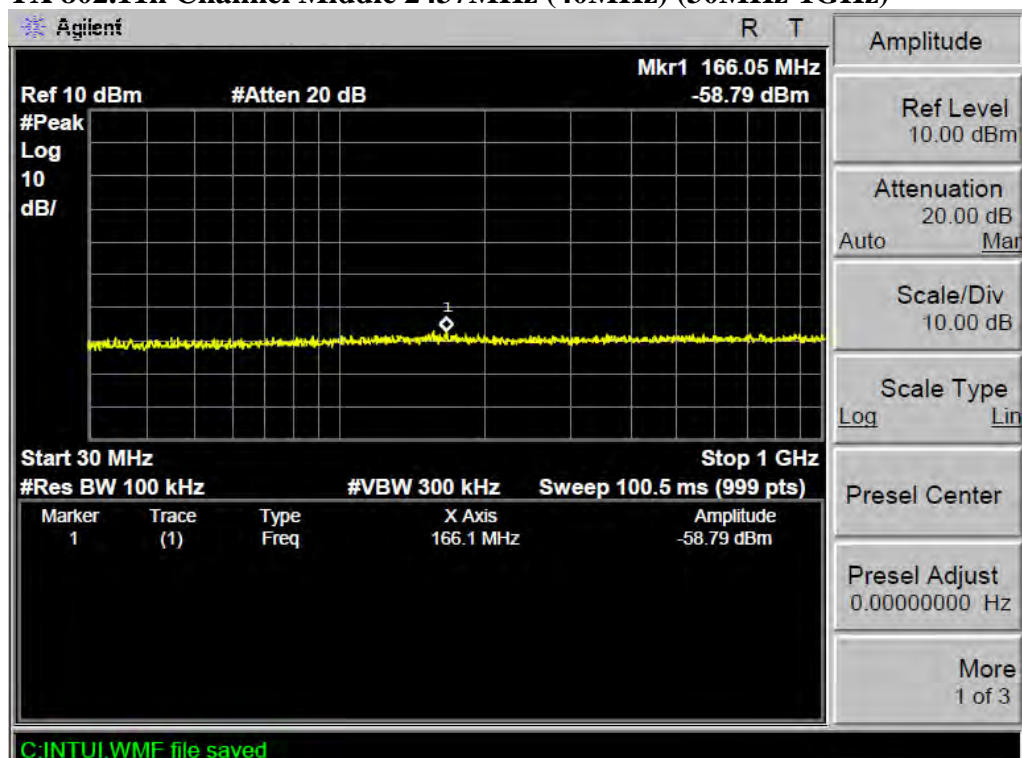
TX 802.11n Channel Low 2422MHz (40MHz) (30MHz-1GHz)



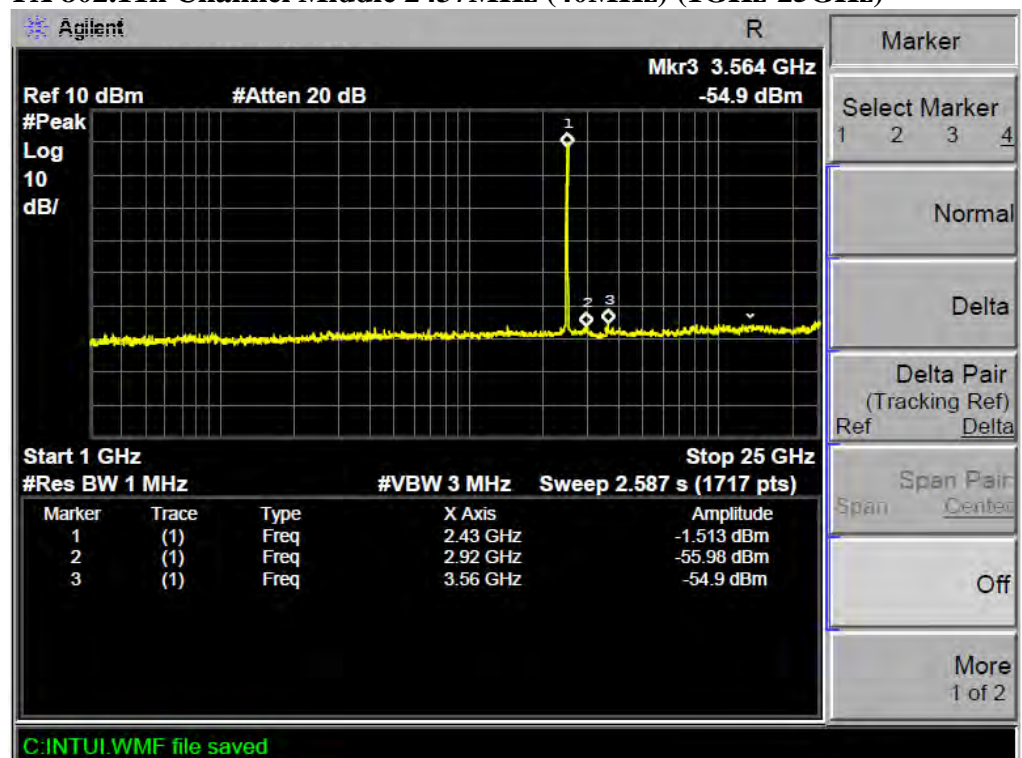
TX 802.11n Channel Low 2422MHz (40MHz) (1GHz-25GHz)



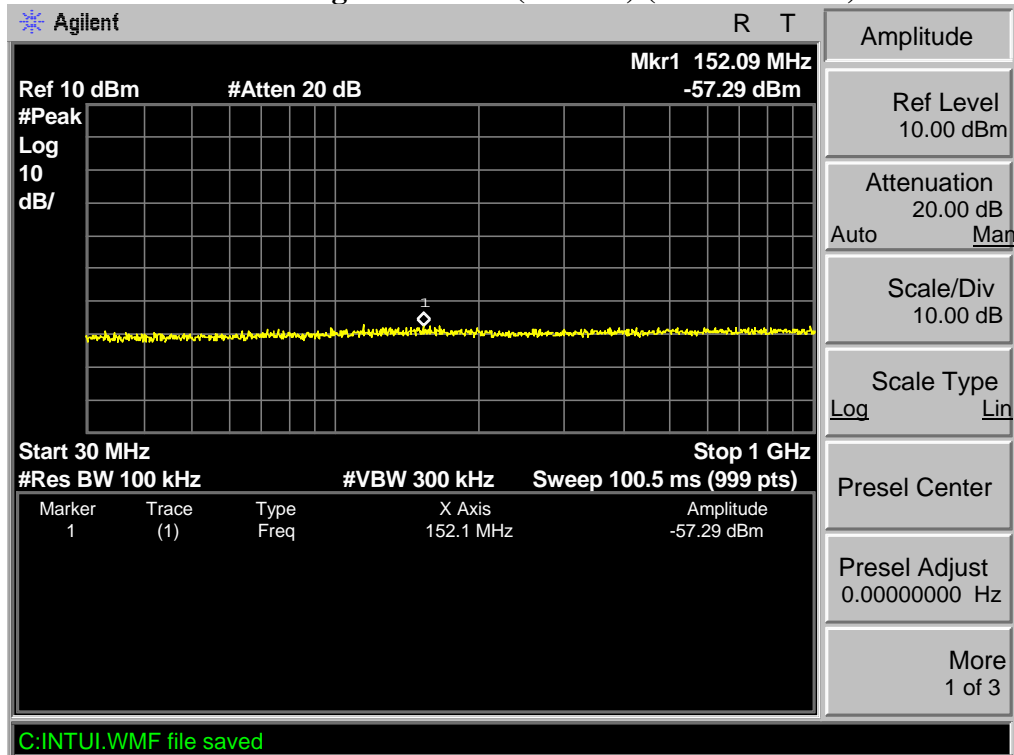
TX 802.11n Channel Middle 2437MHz (40MHz) (30MHz-1GHz)



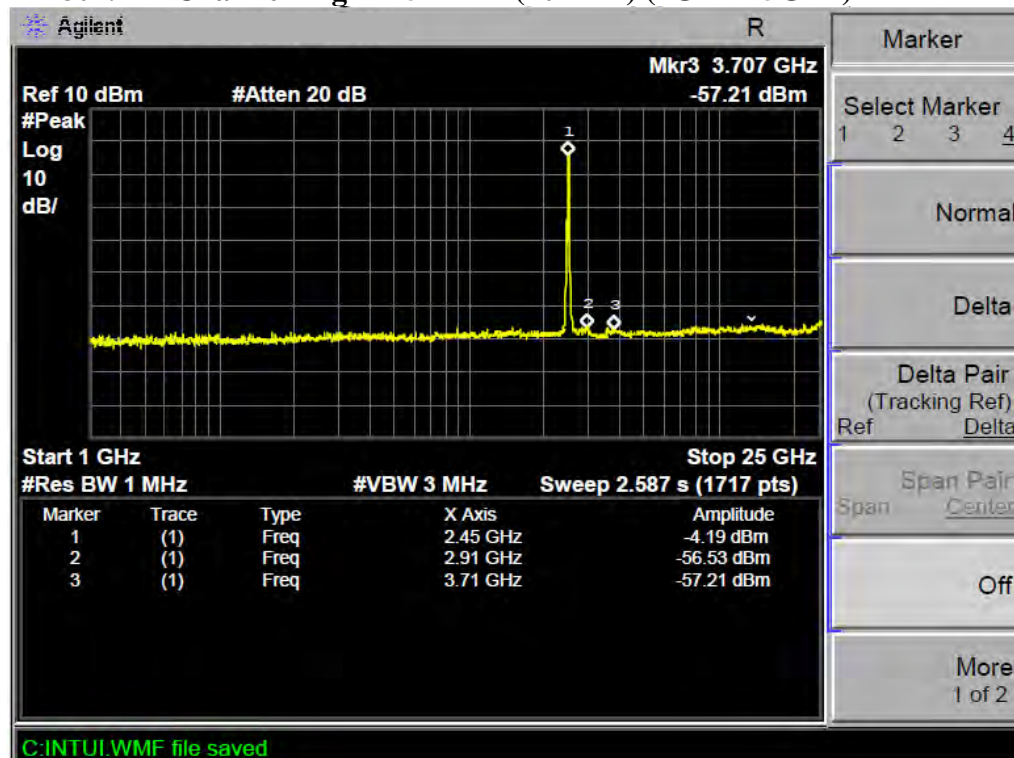
TX 802.11n Channel Middle 2437MHz (40MHz) (1GHz-25GHz)



TX 802.11n Channel High 2452MHz (40MHz) (30MHz-1GHz)



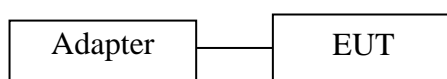
TX 802.11n Channel High 2452MHz (40MHz) (1GHz-25GHz)



11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A)

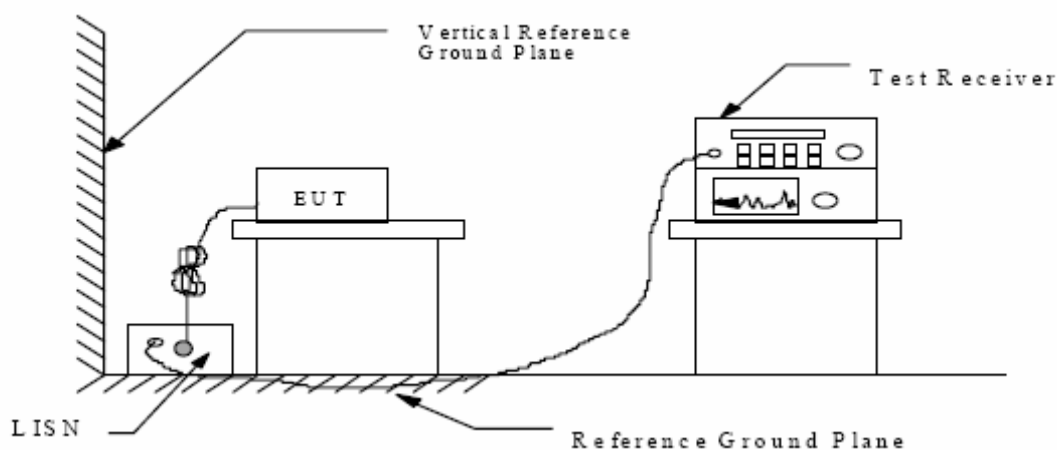
11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and simulators



(EUT: MID)

11.1.2.Shielding Room Test Setup Diagram



(EUT: MID)

11.2.The Emission Limit

11.2.1.Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB(μV)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

11.3.Configuration of EUT on Measurement

The following equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.3.1.MID (EUT)

Model Number	:	VX-S7001
Serial Number	:	N/A
Manufacturer	:	Shenzhen Sungworld Electronics Co., Ltd.

11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in (Charging) mode measure it.

11.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

11.6. Power Line Conducted Emission Measurement Results

PASS.

The frequency range from 150kHz to 30MHz is checked.

Date of Test:	January 30, 2013	Temperature:	25°C
EUT:	MID	Humidity:	50%
Model No.:	VX-S7001	Power Supply:	AC 120V/60Hz
Test Mode:	Charging	Test Engineer:	Pei

Frequency (MHz)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector	Line
0.305276	48.70	60	-11.4	QP	Neutral
0.318980	48.70	60	-11.0	QP	
0.359562	49.60	59	-9.1	QP	
0.312676	37.80	50	-12.1	AV	
0.356703	38.50	49	-10.3	AV	
4.992190	34.40	46	-11.6	AV	
0.362445	49.70	59	-9.0	QP	Live
0.519130	47.30	56	-8.7	QP	
0.628773	47.20	56	-8.8	QP	
0.362445	40.30	49	-8.4	AV	
0.512950	35.00	46	-11.0	AV	
4.952491	38.50	46	-7.5	AV	

Emissions attenuated more than 20 dB below the permissible value are not reported.
The spectral diagrams are attached as below.

ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART15B**

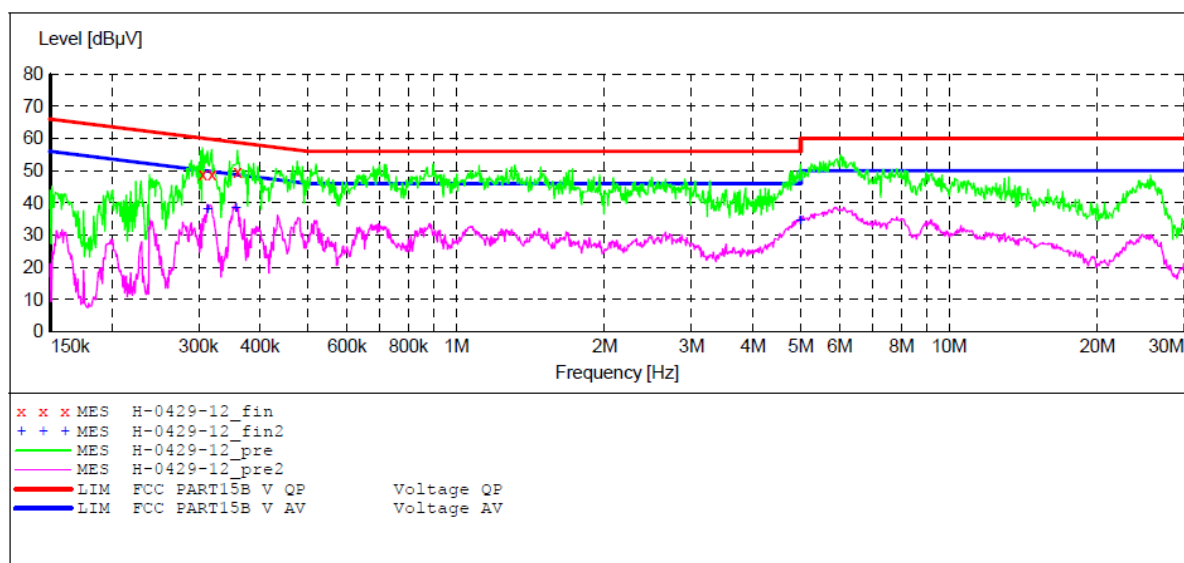
EUT: MID M/N:VX-S7001
 Manufacturer: Sungworld
 Operating Condition: Charging
 Test Site: 1#Shielding Room
 Operator: Bob
 Test Specification: N AC120V/60Hz
 Comment: Report NO.:ATE20130172
 Start of Test: 1/30/2013 / 2:17:47PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start	Stop	Step	Detector	Meas. Time	IF Bandw.	Transducer
Frequency 150.0 kHz	Frequency 30.0 MHz	Step Width 0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008

 Average

**MEASUREMENT RESULT: "H-0429-12_fin"**

1/30/2013 2:19PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.305276	48.70	11.6	60	11.4	QP	N	GND
0.318980	48.70	11.6	60	11.0	QP	N	GND
0.359562	49.60	11.7	59	9.1	QP	N	GND

MEASUREMENT RESULT: "H-0429-12_fin2"

1/30/2013 2:19PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.312676	37.80	11.6	50	12.1	AV	N	GND
0.356703	38.50	11.7	49	10.3	AV	N	GND
4.992190	34.40	11.4	46	11.6	AV	N	GND

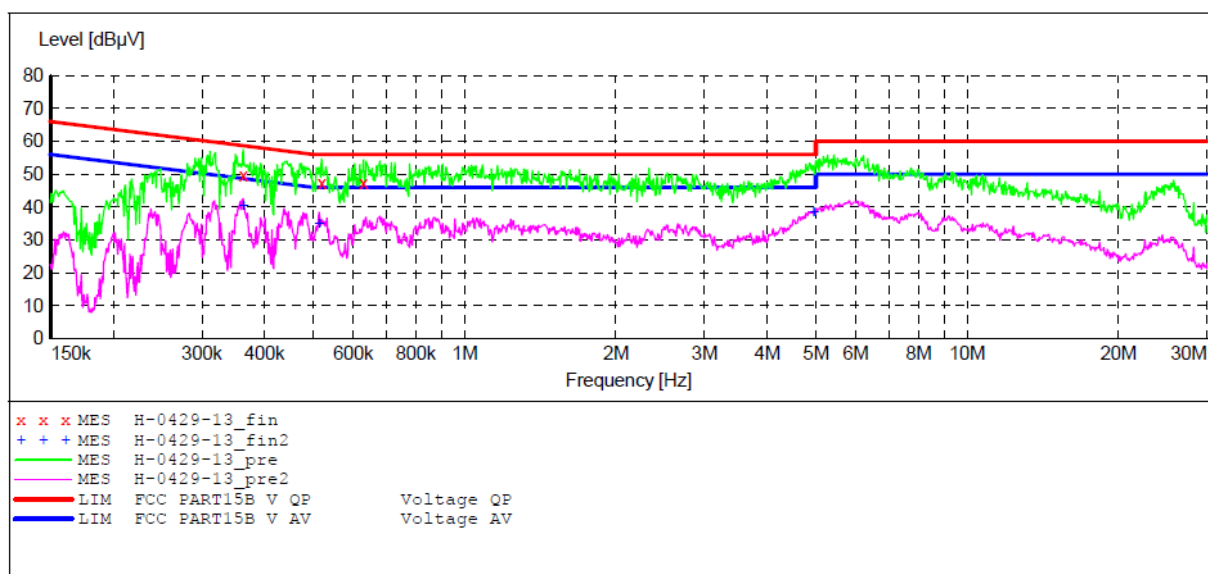
ACCURATE TECHNOLOGY CO.,LTD**CONDUCTED EMISSION STANDARD FCC PART15B**

EUT: MID M/N:VX-S7001
 Manufacturer: Sungworld
 Operating Condition: Charging
 Test Site: 1#Shielding Room
 Operator: Bob
 Test Specification: L AC120V/60Hz
 Comment: Report NO.:ATE20130172
 Start of Test: 1/30/2013 / 2:20:16PM

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70

Start Frequency	Stop Frequency	Step Width	Detector	Meas. Time	IF Bandw.	Transducer
150.0 kHz	30.0 MHz	0.8 %	QuasiPeak	1.0 s	9 kHz	NSLK8126 2008
Average						

**MEASUREMENT RESULT: "H-0429-13_fin"**

1/30/2013 2:22PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.362445	49.70	11.7	59	9.0	QP	L1	GND
0.519130	47.30	12.0	56	8.7	QP	L1	GND
0.628773	47.20	11.9	56	8.8	QP	L1	GND

MEASUREMENT RESULT: "H-0429-13_fin2"

1/30/2013 2:22PM

Frequency MHz	Level dBμV	Transd dB	Limit dBμV	Margin dB	Detector	Line	PE
0.362445	40.30	11.7	49	8.4	AV	L1	GND
0.512950	35.00	12.0	46	11.0	AV	L1	GND
4.952491	38.50	11.4	46	7.5	AV	L1	GND

12.ANTENNA REQUIREMENT

12.1.The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

12.2.Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.



Antenna