



ACCURATE TECHNOLOGY CO., LTD.

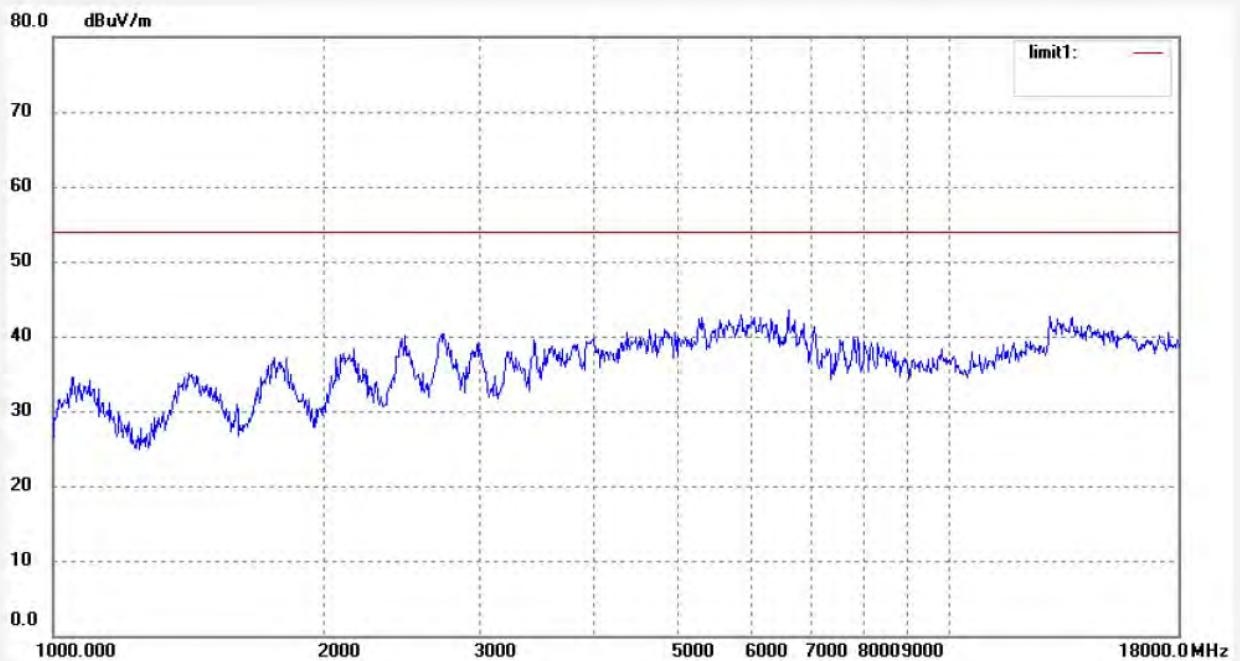
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: star #3792
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: WiFi Bridge
Mode: TX Channel 6(802.11n)
Model: VAP11N
Manufacturer: HouTian

Polarization: Horizontal
Power Source: DC 5V
Date: 13/02/02/
Time: 14/31/23
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20130161



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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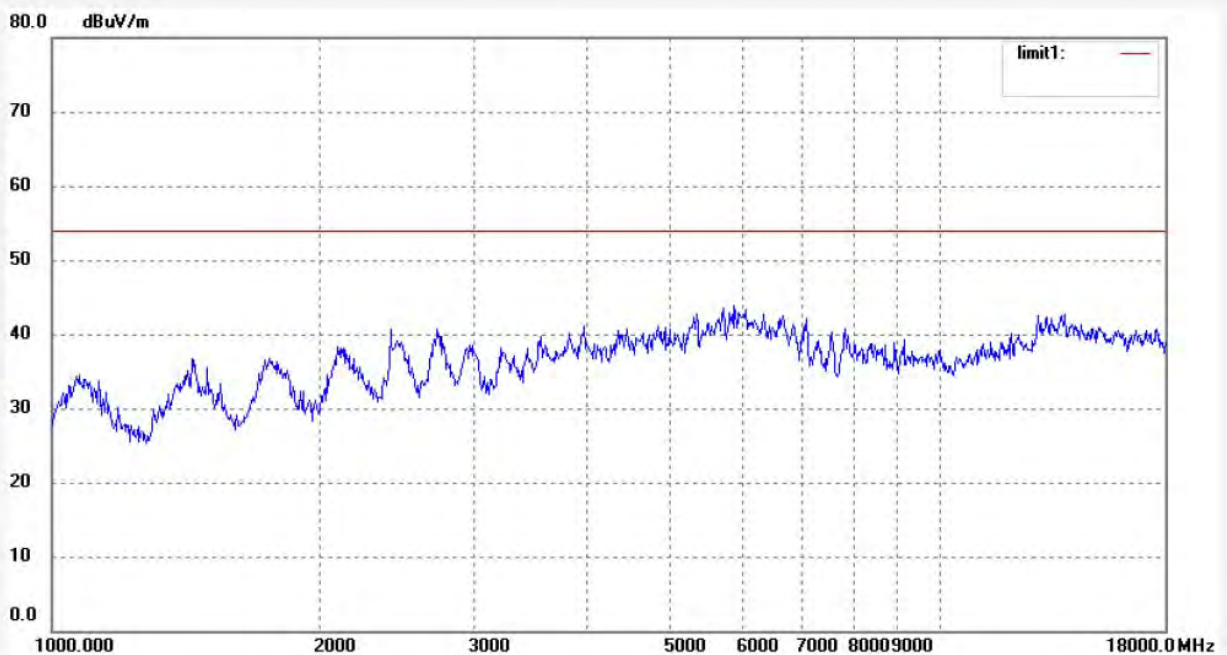
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3791	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 14/27/00
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 6(802.11n)	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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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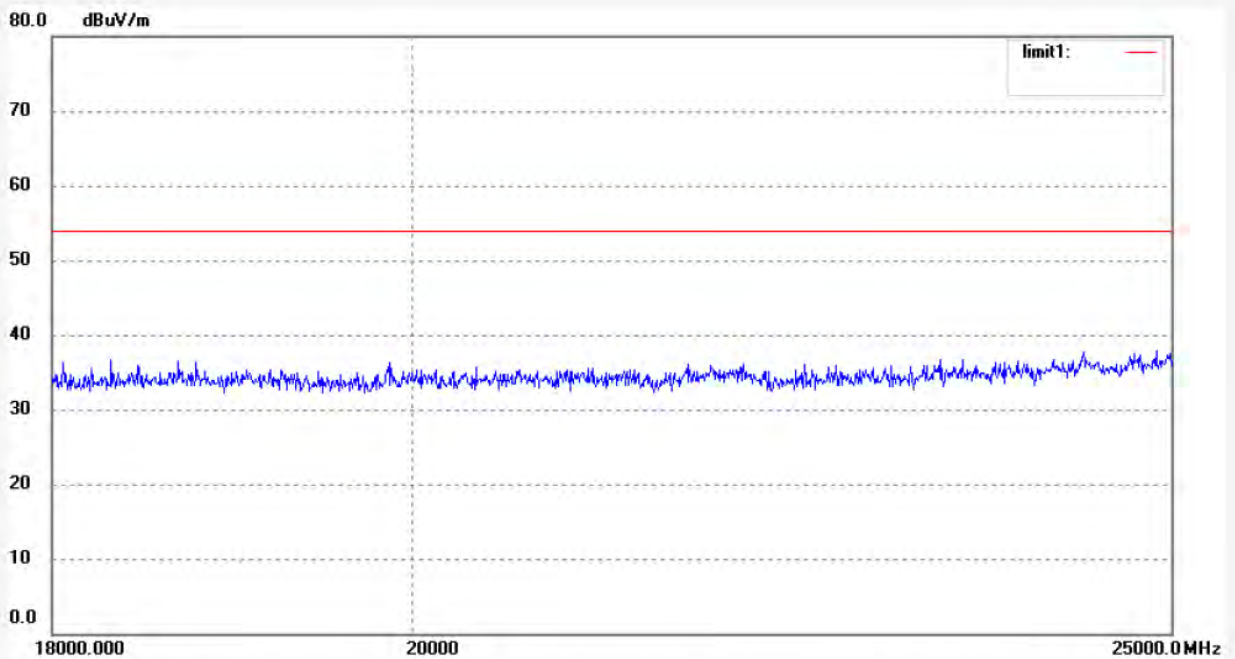
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3816	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 15/58/14
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 6(802.11n)	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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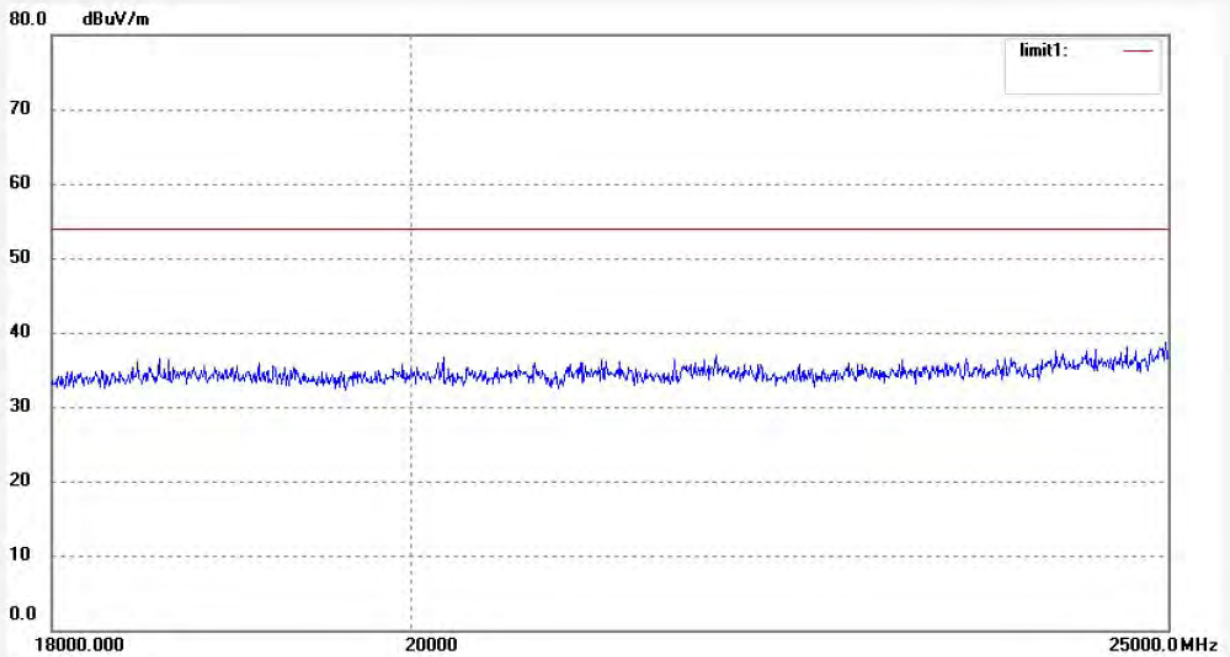
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: star #3815
Standard: FCC Class B 3M Radiated
Test item: Radiation Test
Temp.(C)/Hum.(%) 26 C / 55 %
EUT: WiFi Bridge
Mode: TX Channel 6(802.11n)
Model: VAP11N
Manufacturer: HouTian

Polarization: Vertical
Power Source: DC 5V
Date: 13/02/02/
Time: 15/54/01
Engineer Signature:
Distance: 3m

Note: Report No.:ATE20130161



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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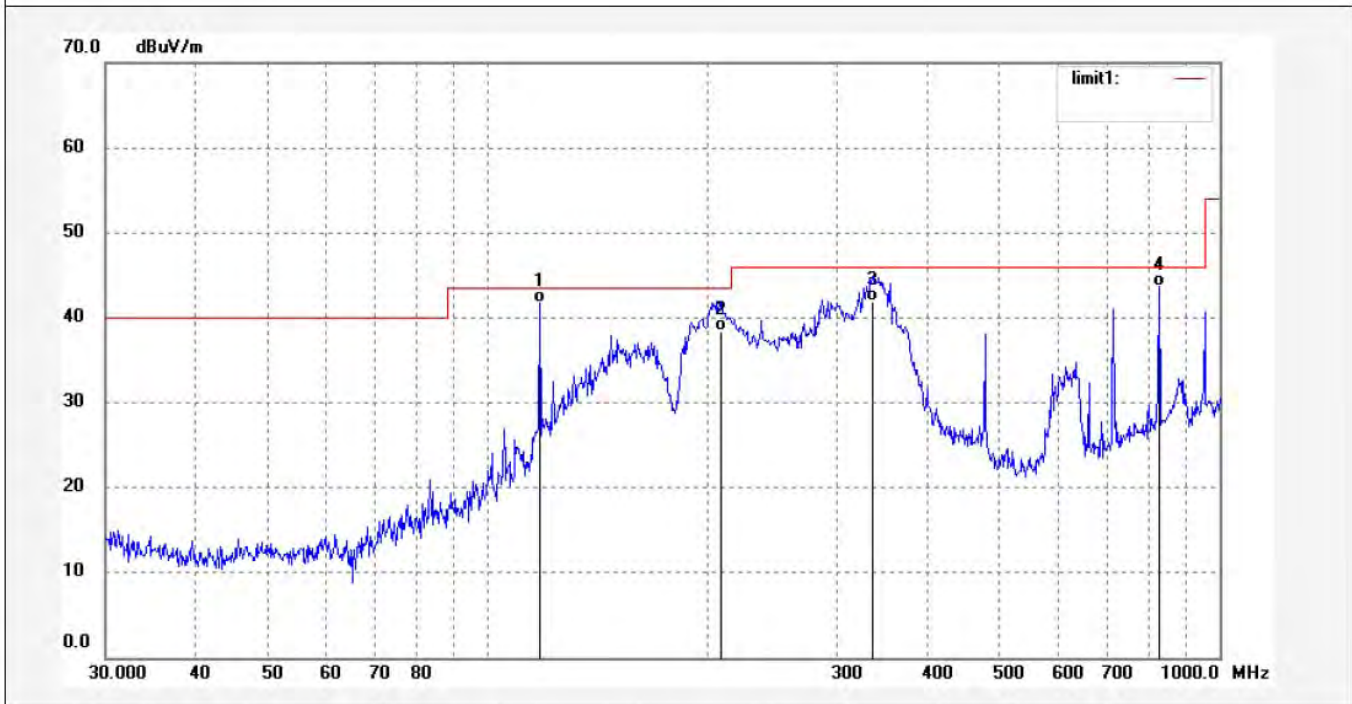
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3721	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/24/13
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 11(802.11n)	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130181



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	117.6815	28.12	13.68	41.80	43.50	-1.70	QP			
2	208.6580	24.22	14.23	38.45	43.50	-5.05	QP			
3	335.3016	23.98	17.86	41.84	46.00	-4.16	QP			
4	827.1795	16.40	27.20	43.60	46.00	-2.40	QP			



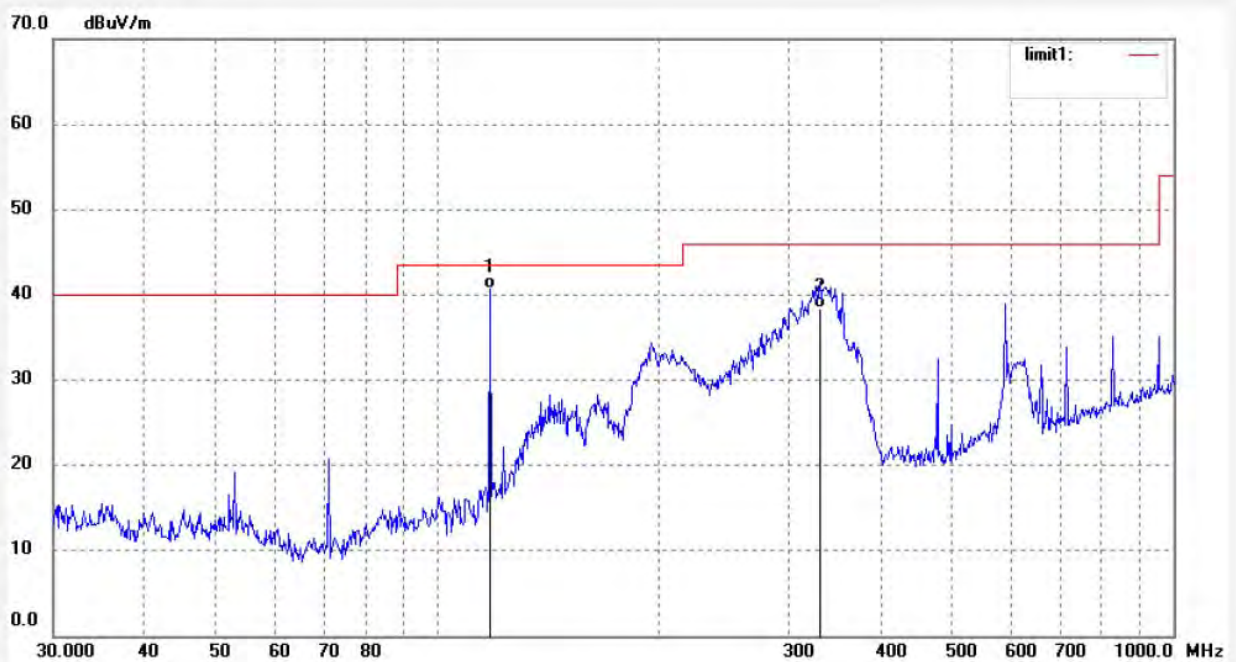
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3722	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/27/39
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 11(802.11n)	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130181



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	117.6815	27.07	13.68	40.75	43.50	-2.75	QP			
2	330.6220	20.58	17.77	38.35	46.00	-7.65	QP			



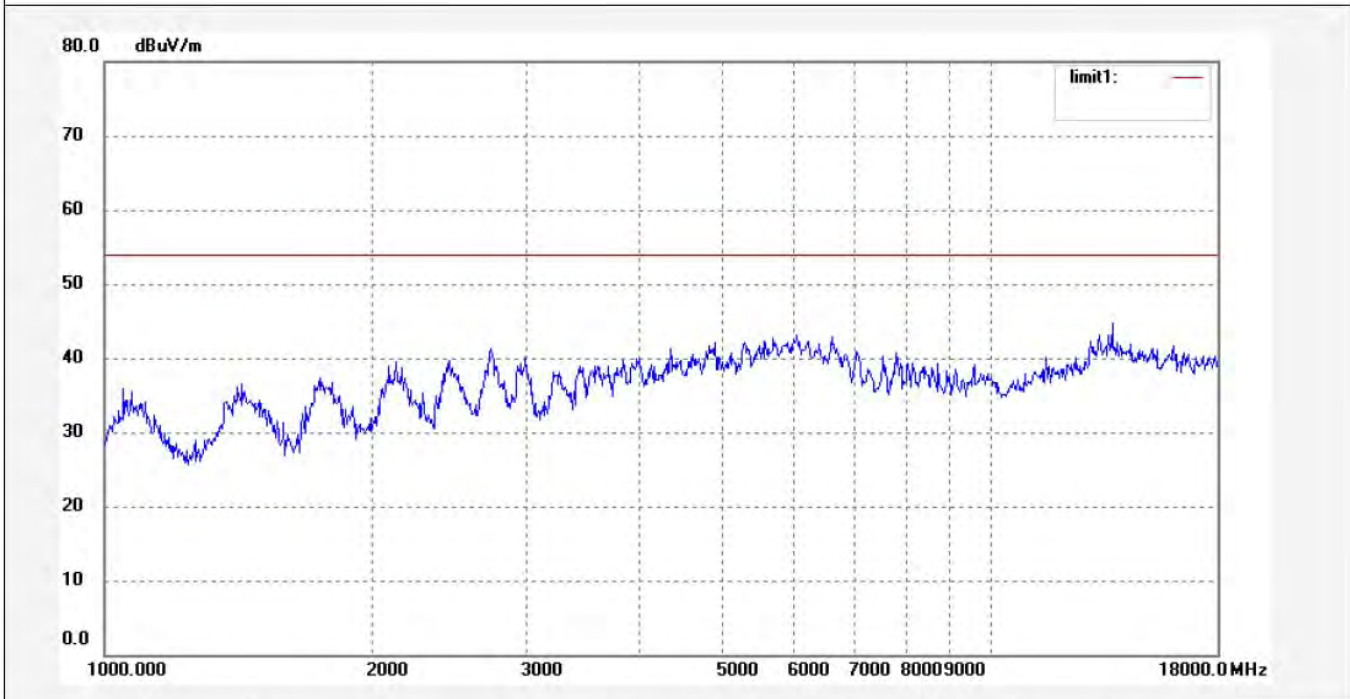
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3793	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 14/35/57
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 11(802.11n)	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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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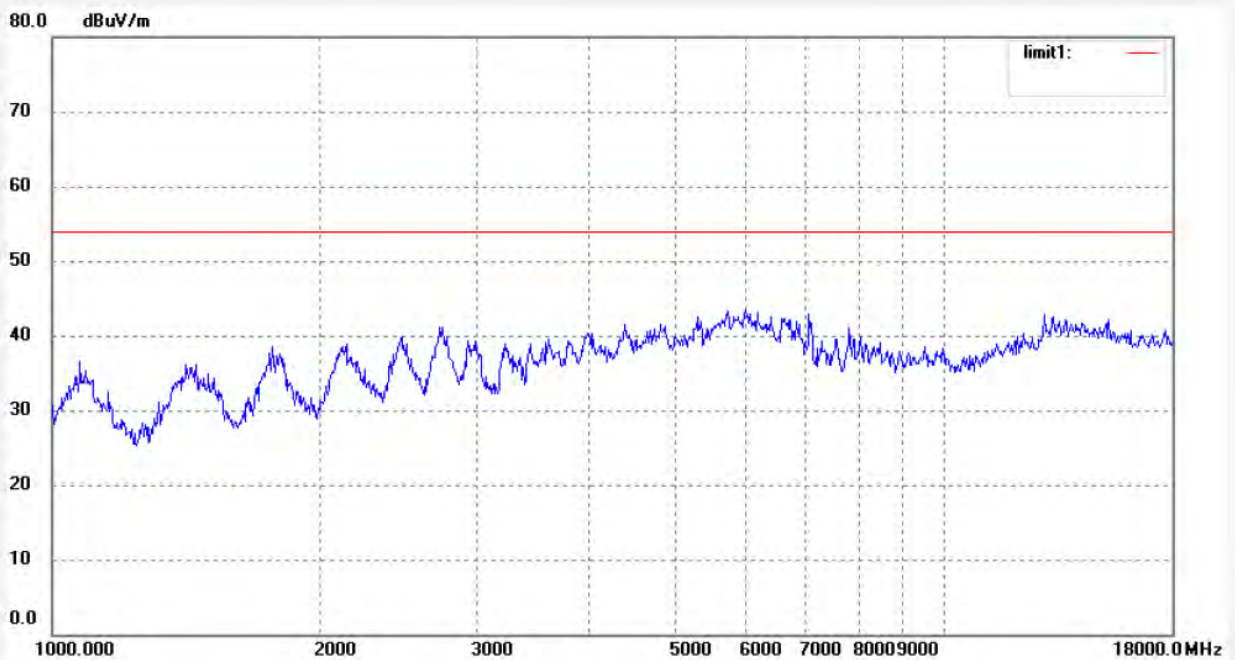
ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: star #3794	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 14/38/34
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 11(802.11n)	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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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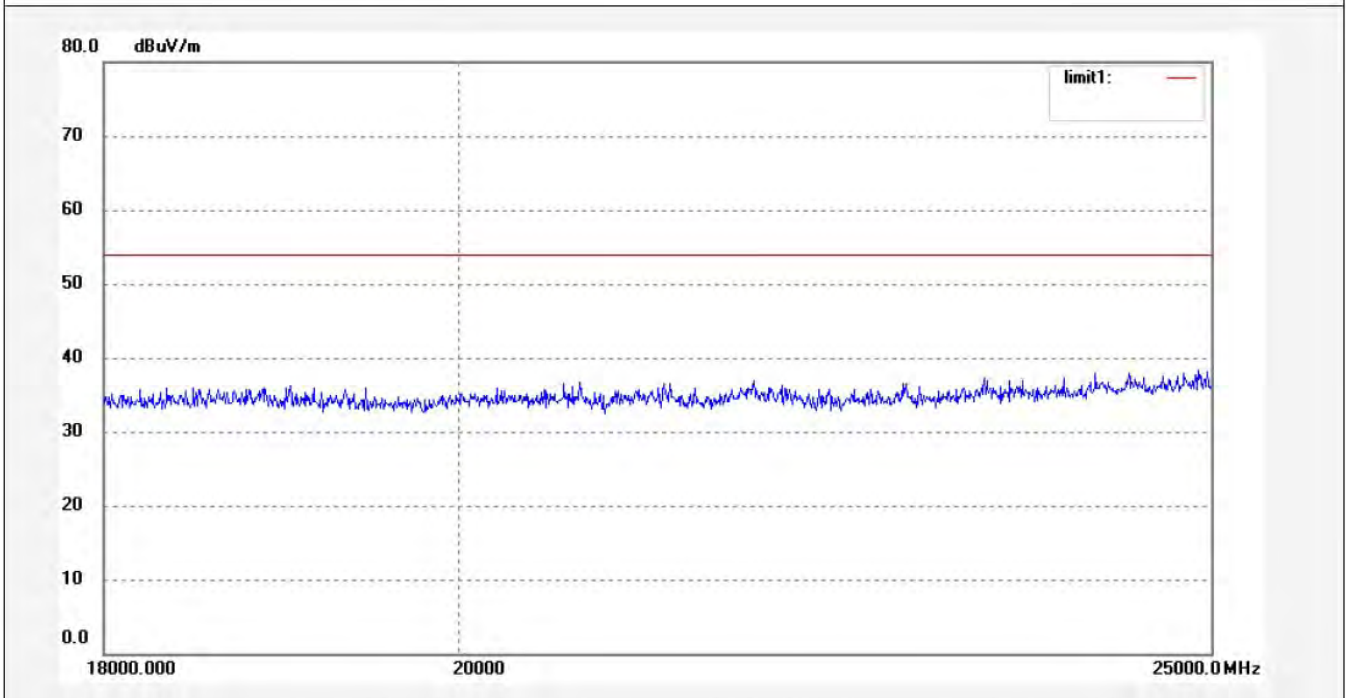
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3817	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 16/02/29
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 11(802.11n)	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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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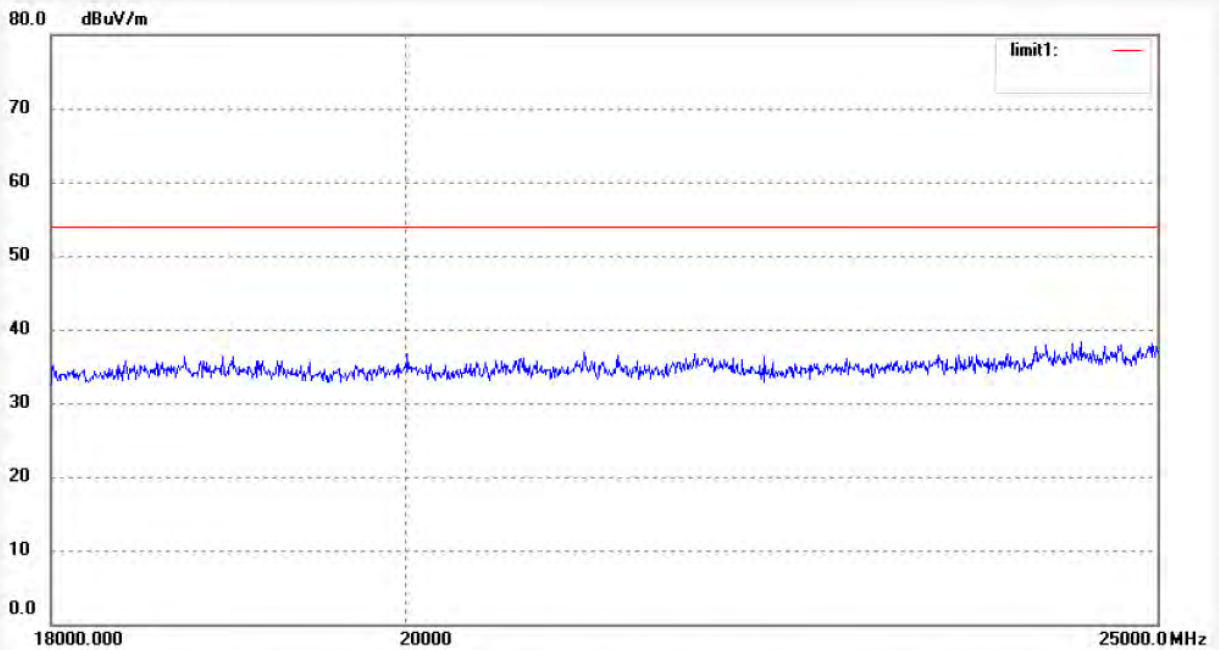
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3818	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 16/08/47
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 11(802.11n)	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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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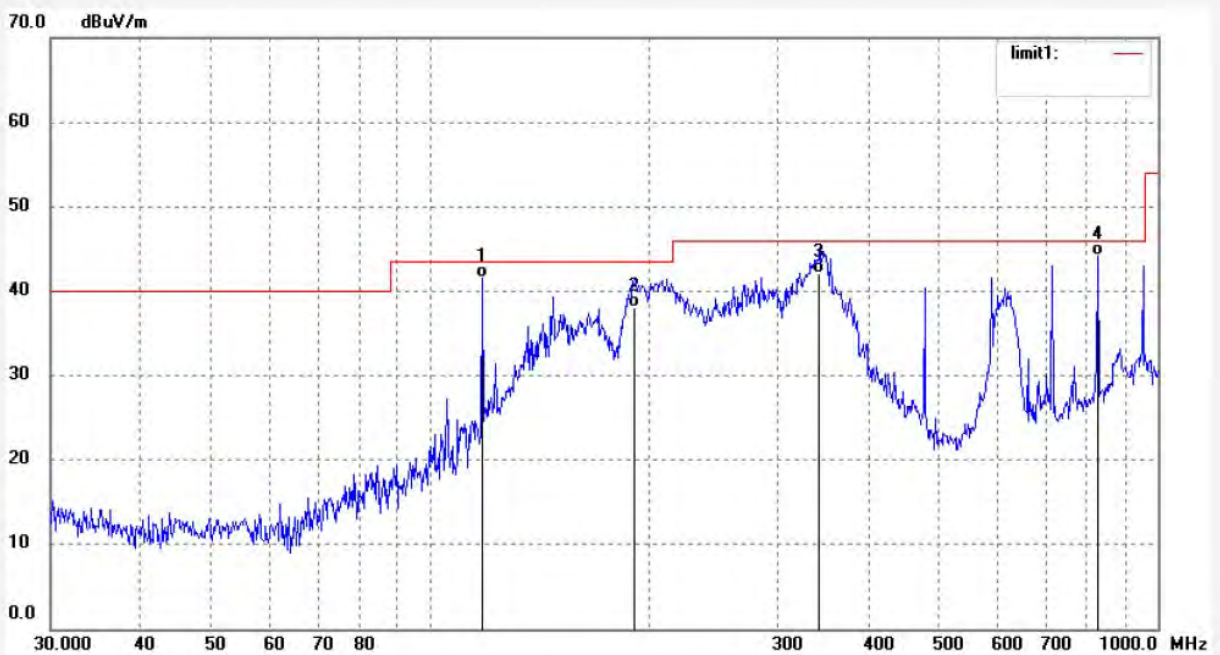
ACCURATE TECHNOLOGY CO., LTD.

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

Job No.: star #3724	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/35/15
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130181



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	117.6815	27.93	13.68	41.61	43.50	-1.89	QP			
2	190.4411	24.25	13.88	38.13	43.50	-5.37	QP			
3	342.4453	23.93	18.14	42.07	46.00	-3.93	QP			
4	827.1795	16.99	27.20	44.19	46.00	-1.81	QP			



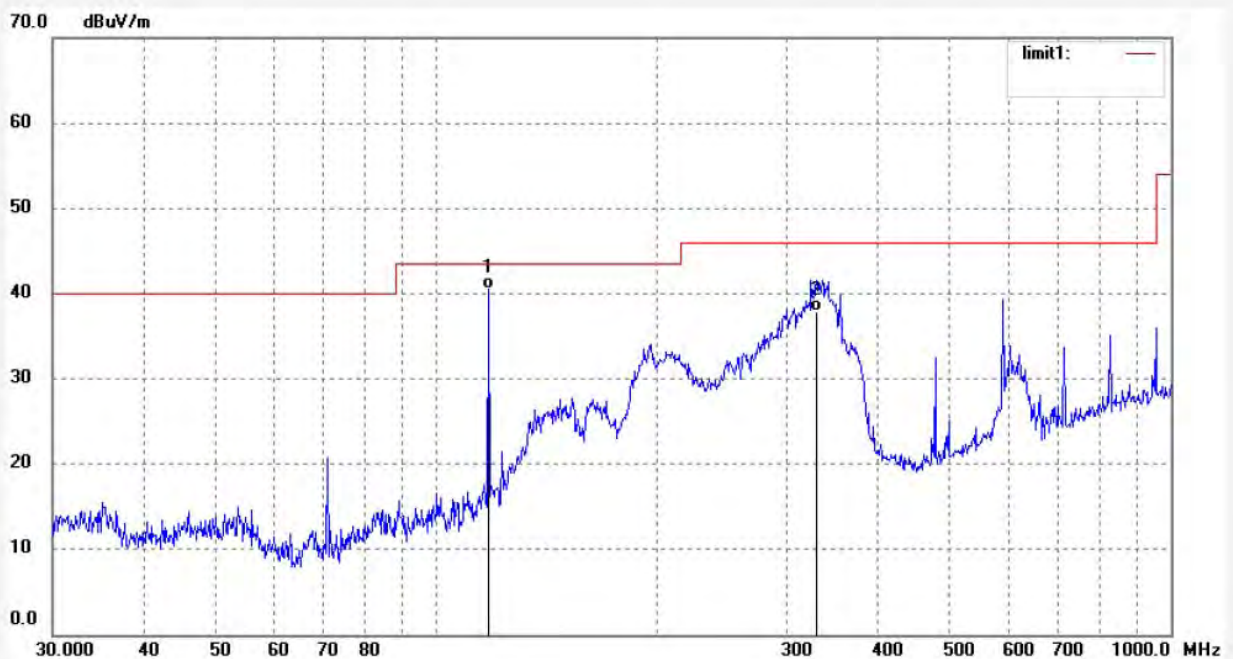
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3723	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/31/30
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130181



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	117.6815	26.91	13.68	40.59	43.50	-2.91	QP			
2	329.4625	20.14	17.73	37.87	46.00	-8.13	QP			



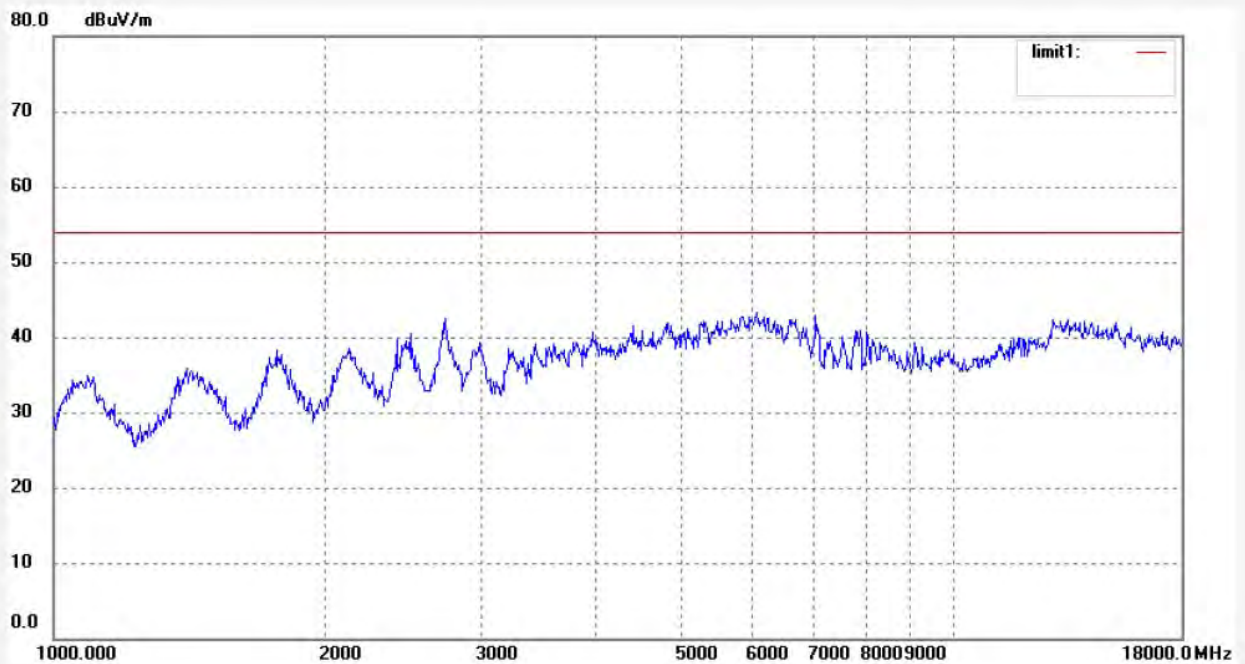
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3796	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 14/46/09
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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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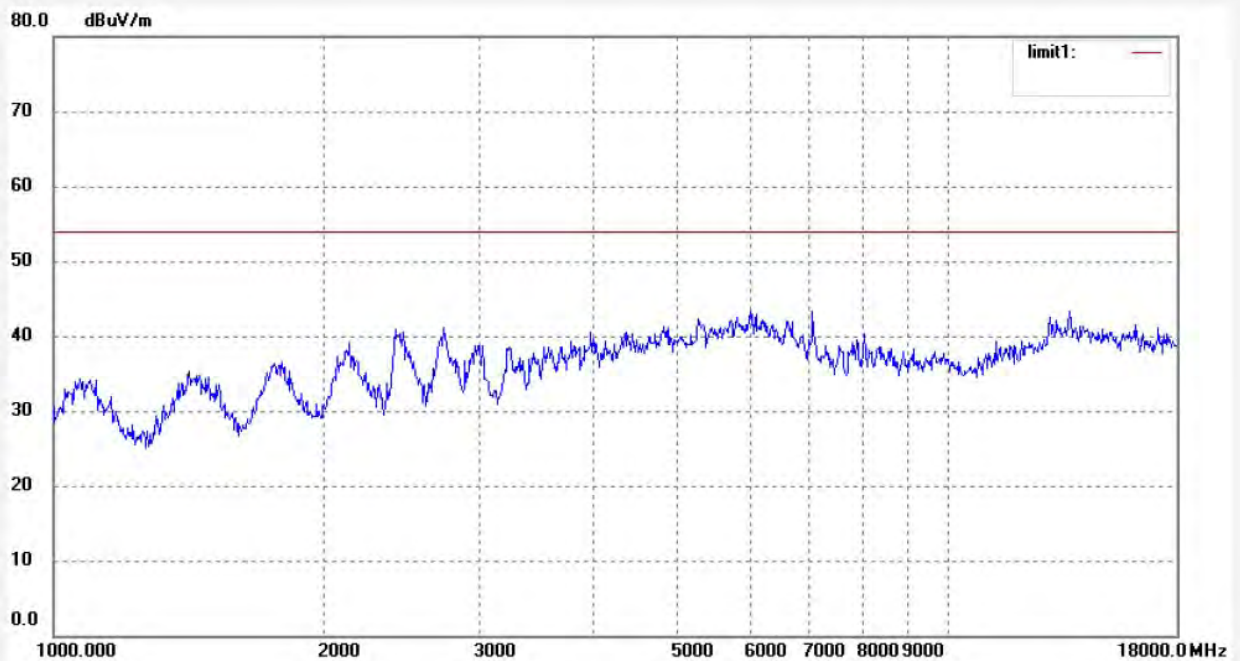
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3795	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 14/42/20
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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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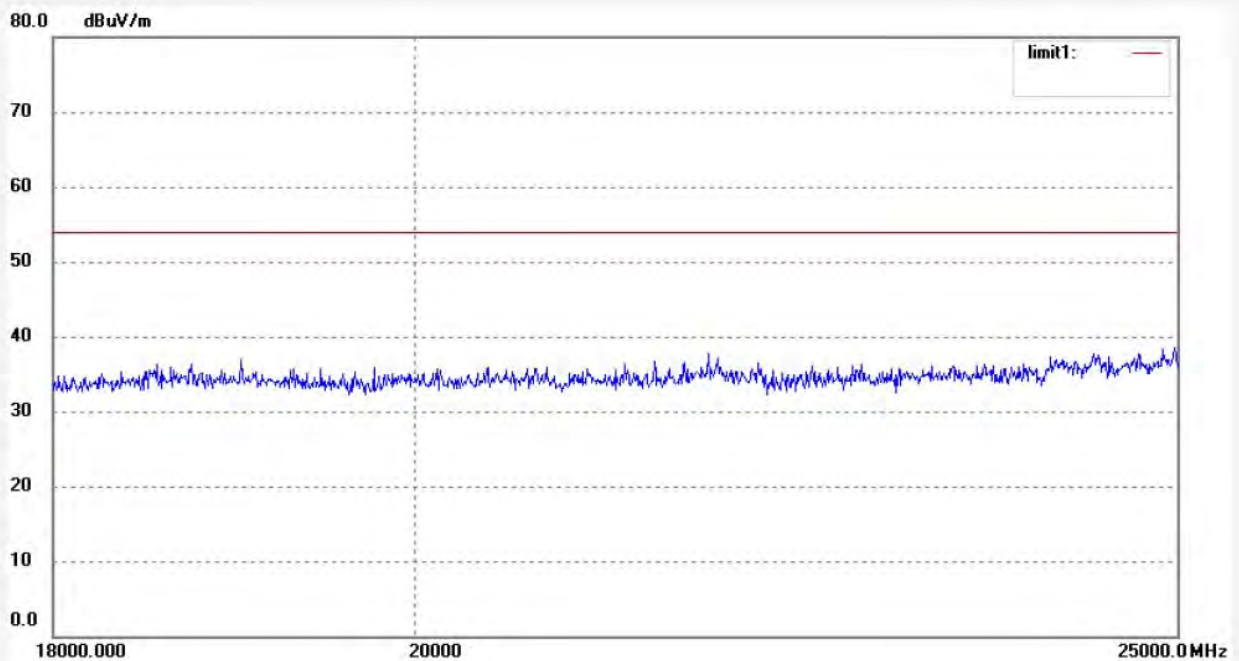
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3820	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 16/15/22
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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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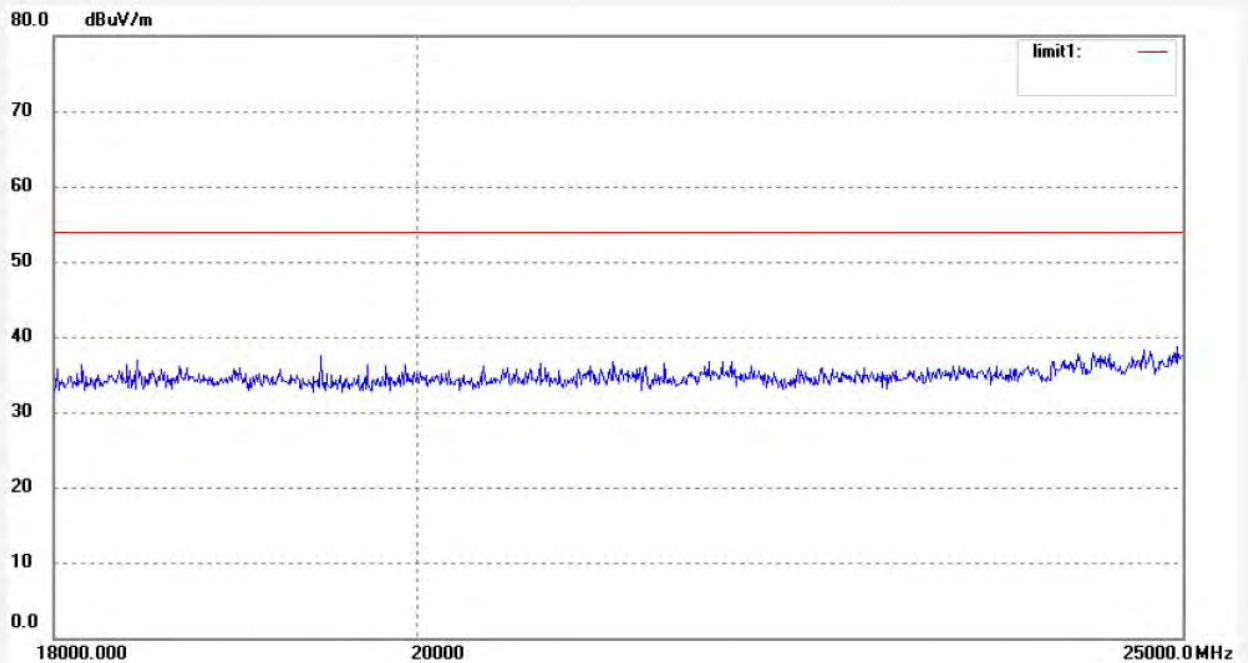
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3819	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 16/12/04
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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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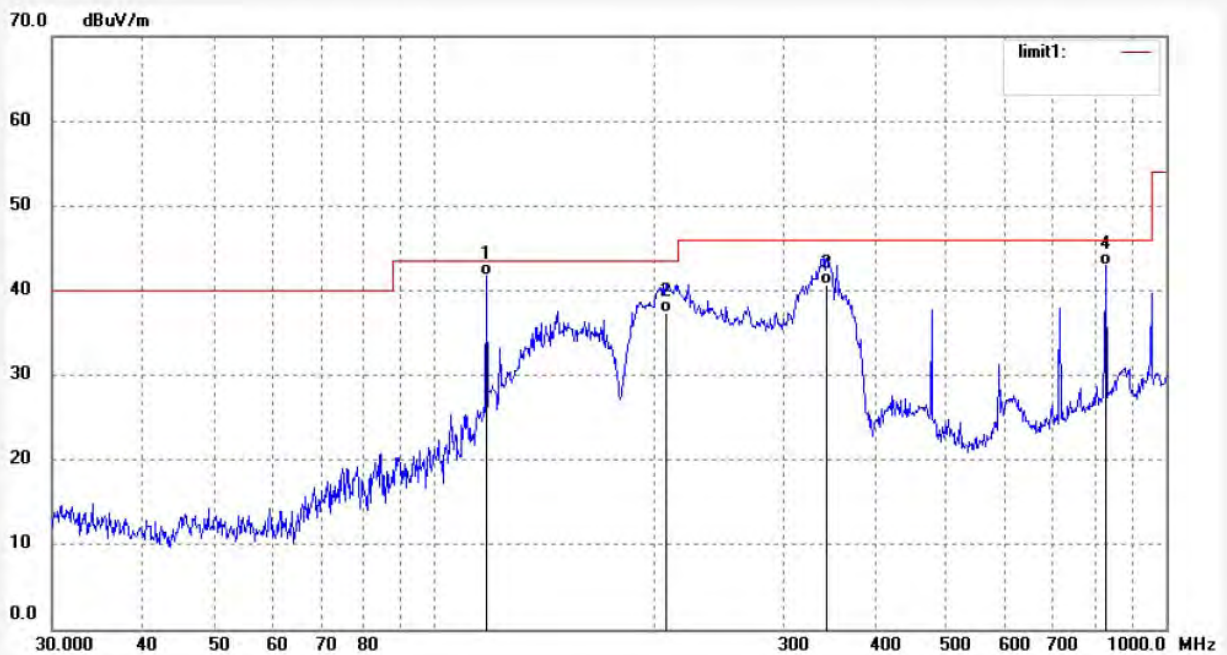
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3725	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/39/14
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130181



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	117.6815	28.14	13.68	41.82	43.50	-1.68	QP			
2	207.1968	23.22	14.20	37.42	43.50	-6.08	QP			
3	343.6506	22.46	18.19	40.65	46.00	-5.35	QP			
4	827.1795	15.76	27.20	42.96	46.00	-3.04	QP			



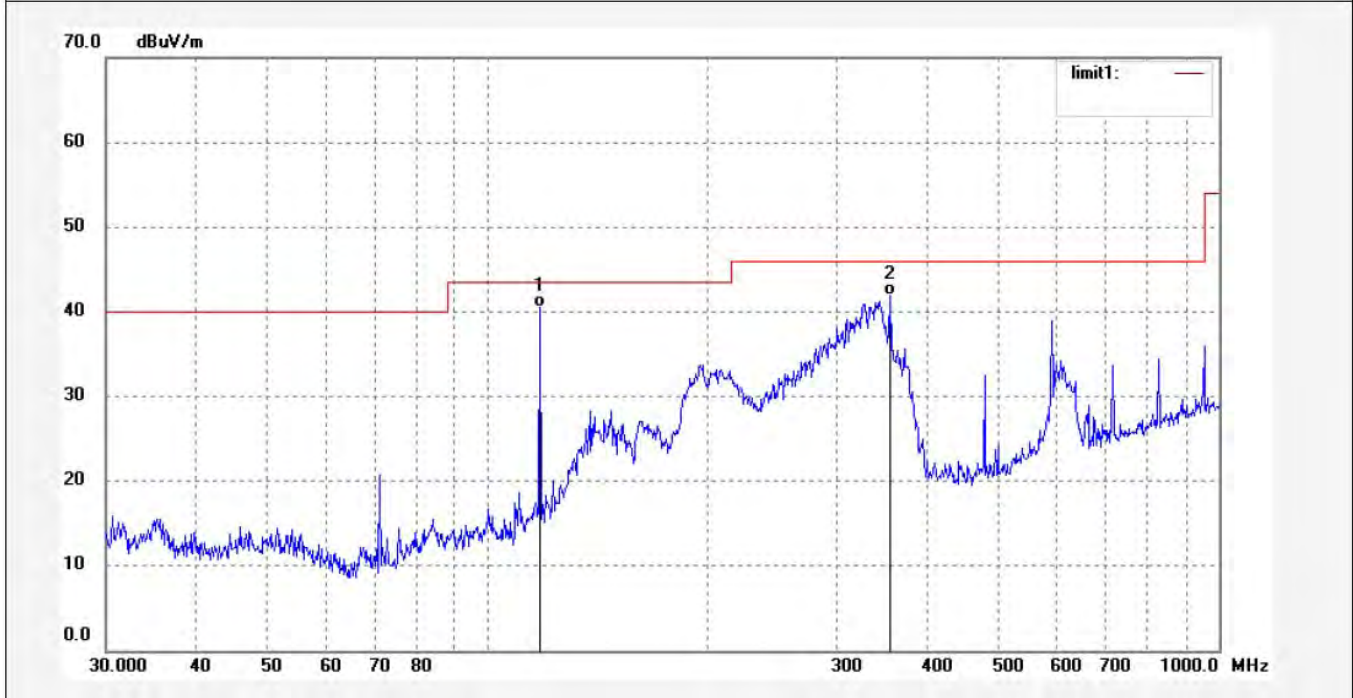
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3726	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/42/23
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130181



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	117.6814	26.91	13.68	40.59	43.50	-2.91	QP			
2	354.6911	23.48	18.43	41.91	46.00	-4.09	QP			



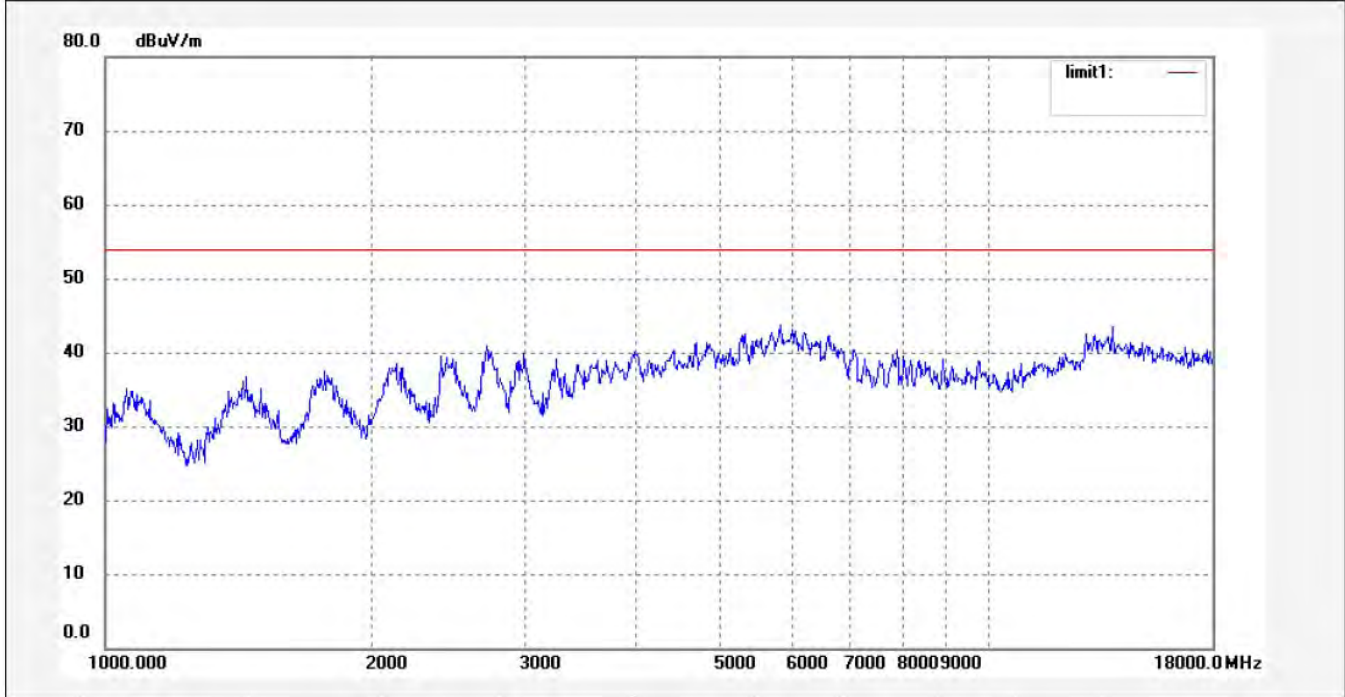
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3797	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 14/49/05
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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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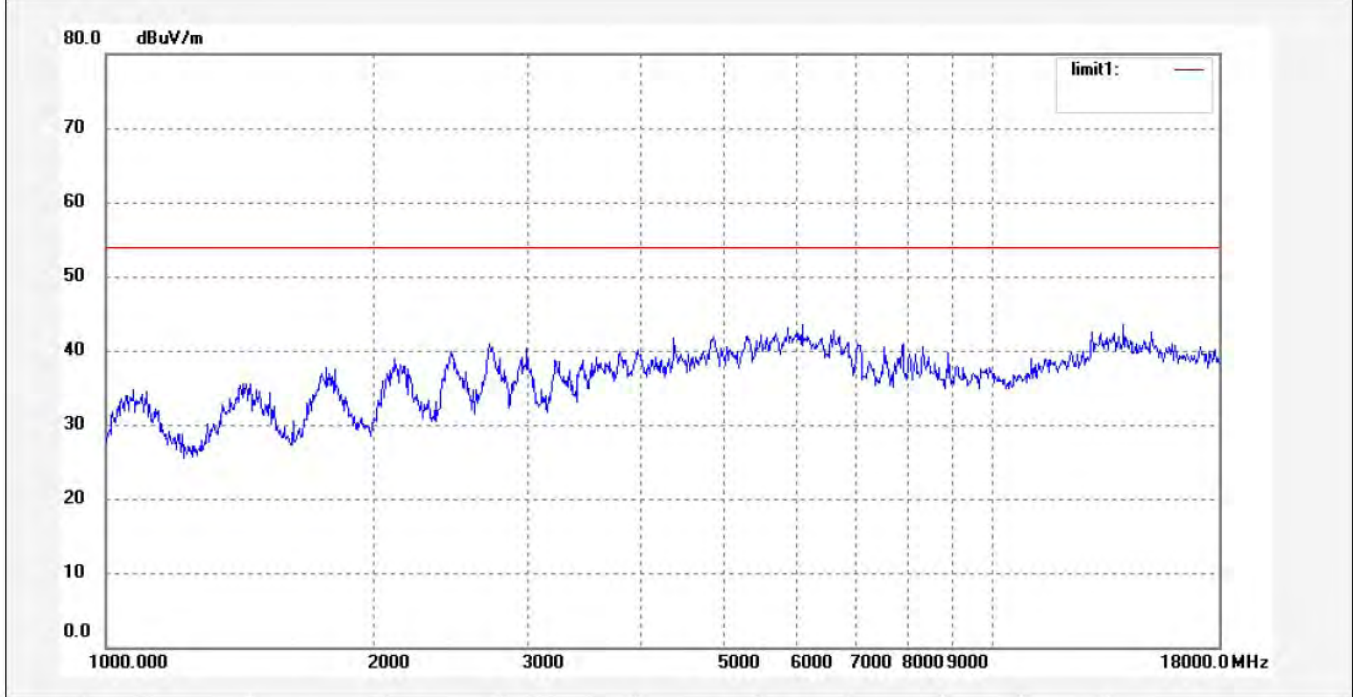
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3798	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 14/51/37
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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



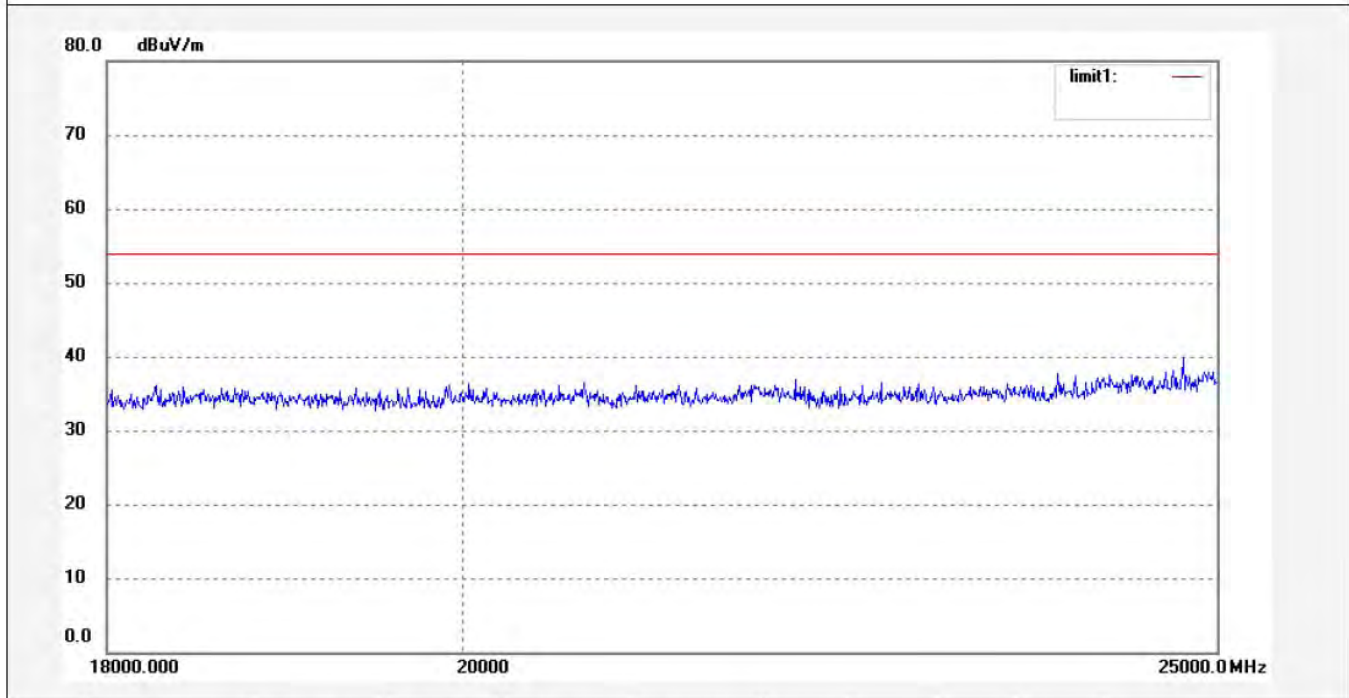
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3821	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 16/20/39
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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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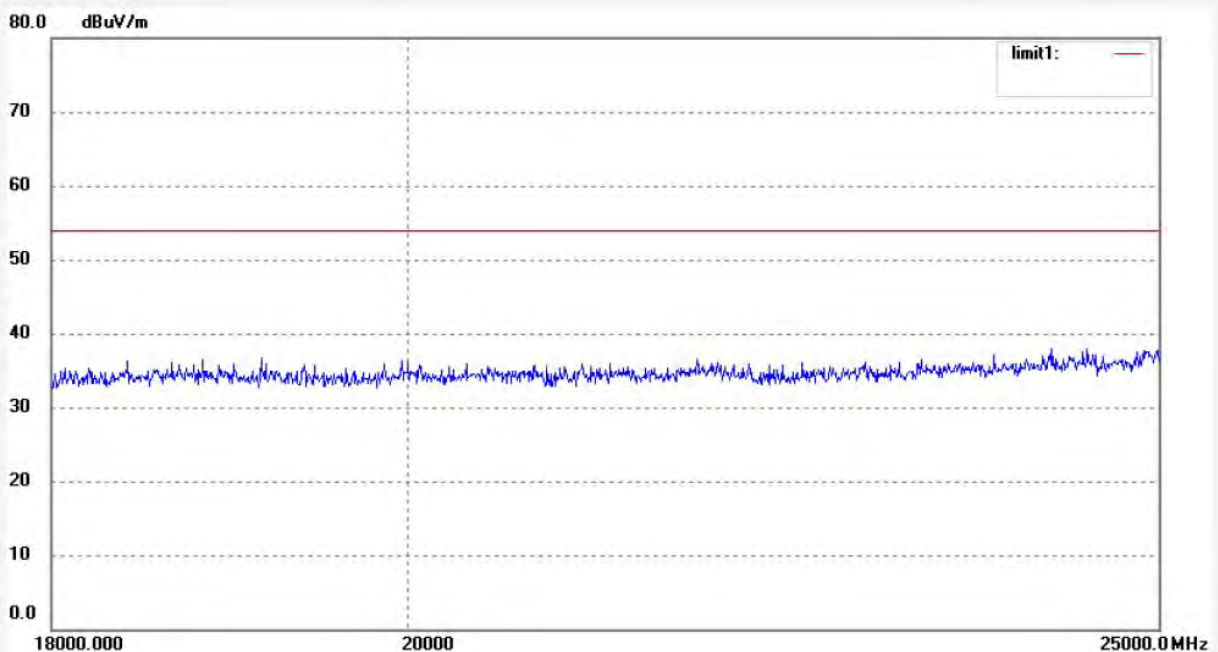
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3822	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 16/24/59
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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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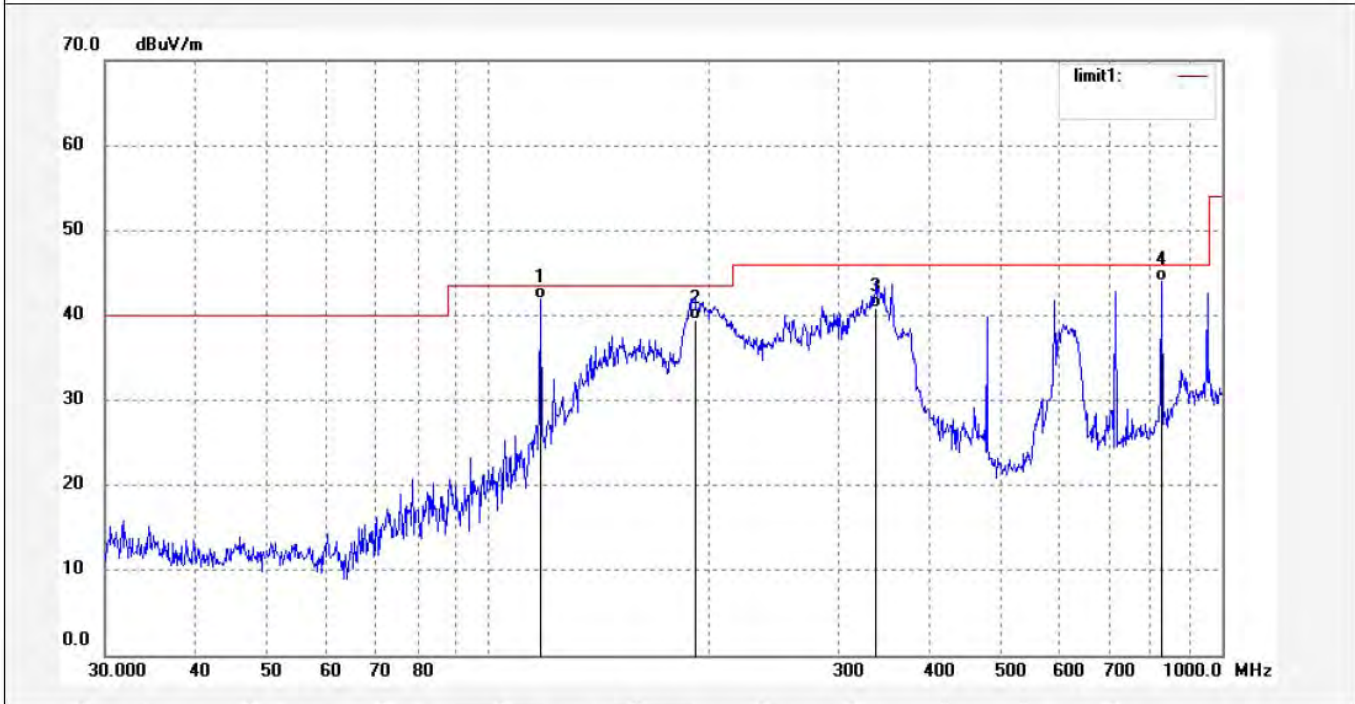
ACCURATE TECHNOLOGY CO., LTD.

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

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

Job No.: star #3728	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/50/45
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130181



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	117.6815	28.20	13.68	41.88	43.50	-1.62	QP			
2	191.1114	25.64	13.90	39.54	43.50	-3.96	QP			
3	337.6661	22.83	17.95	40.78	46.00	-5.22	QP			
4	827.1795	16.74	27.20	43.94	46.00	-2.06	QP			



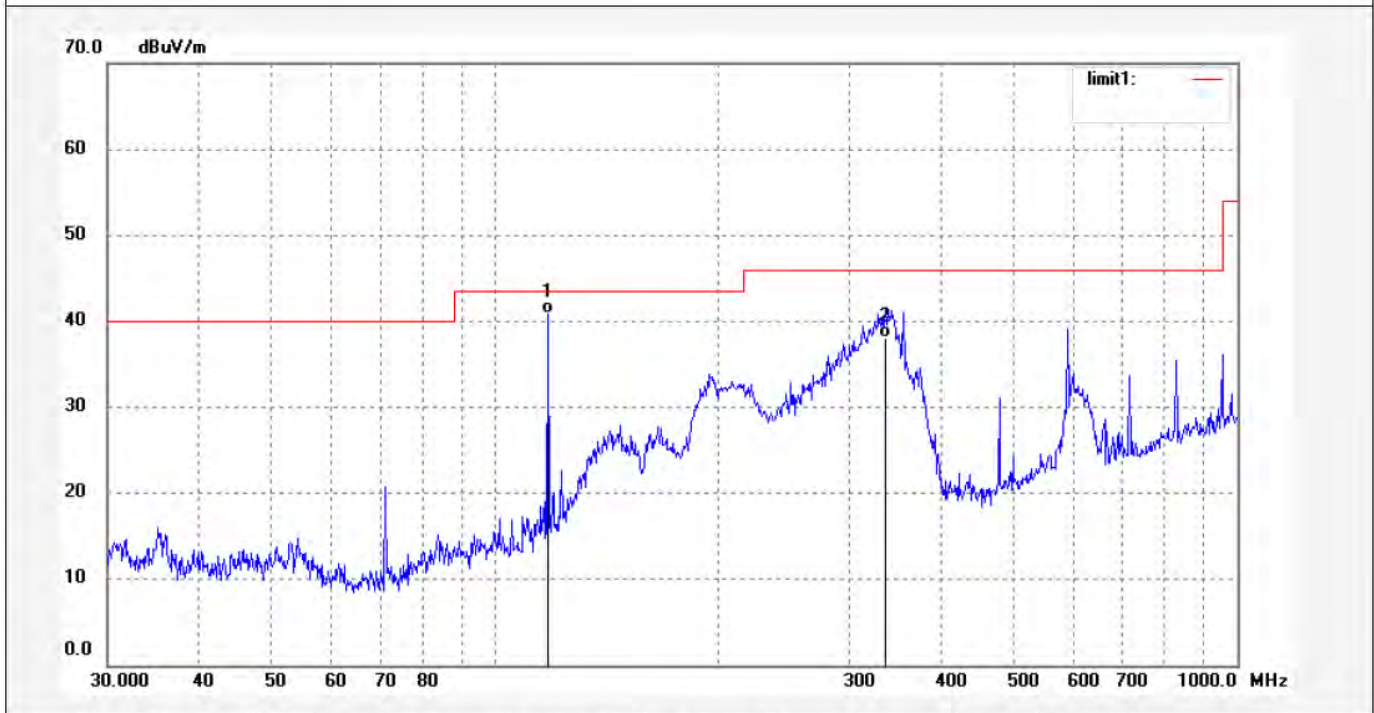
ACCURATE TECHNOLOGY CO., LTD.

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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.: star #3727	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 9/46/59
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130181



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	117.6814	27.15	13.68	40.83	43.50	-2.67	QP			
2	335.3016	20.14	17.86	38.00	46.00	-8.00	QP			



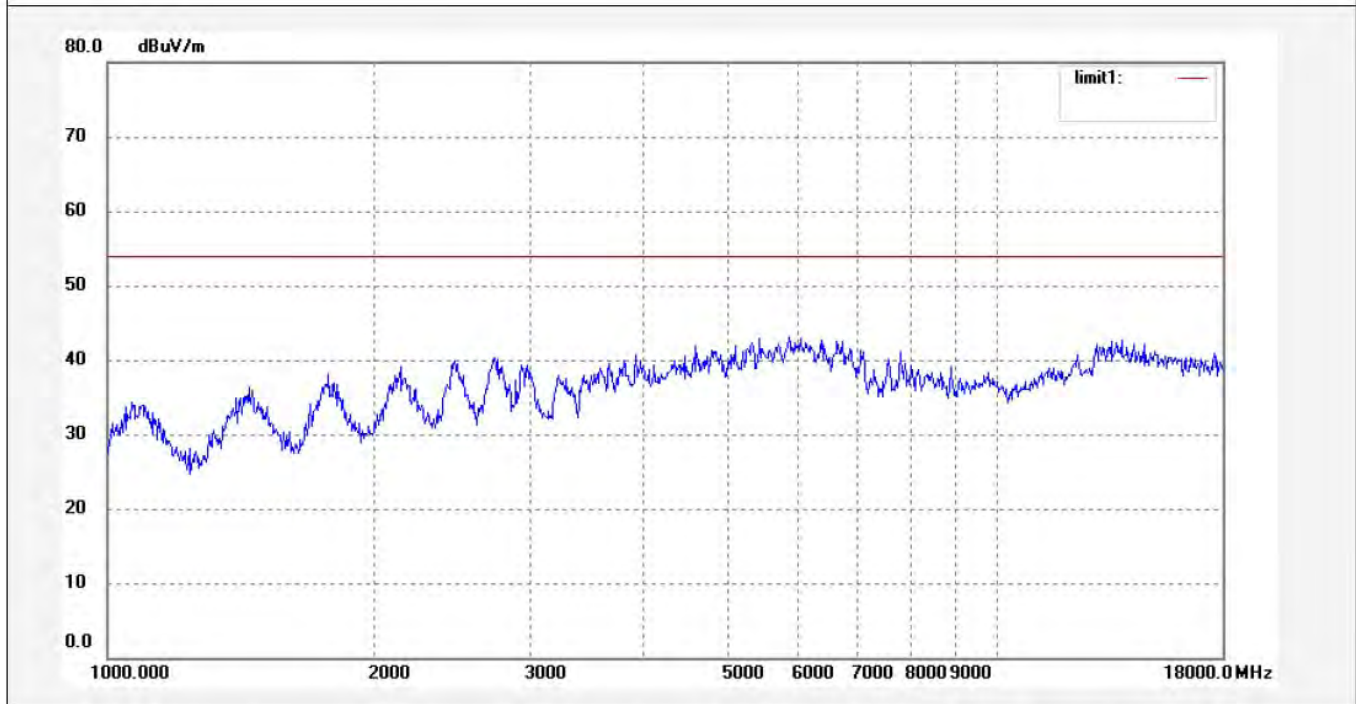
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3800	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 14/59/31
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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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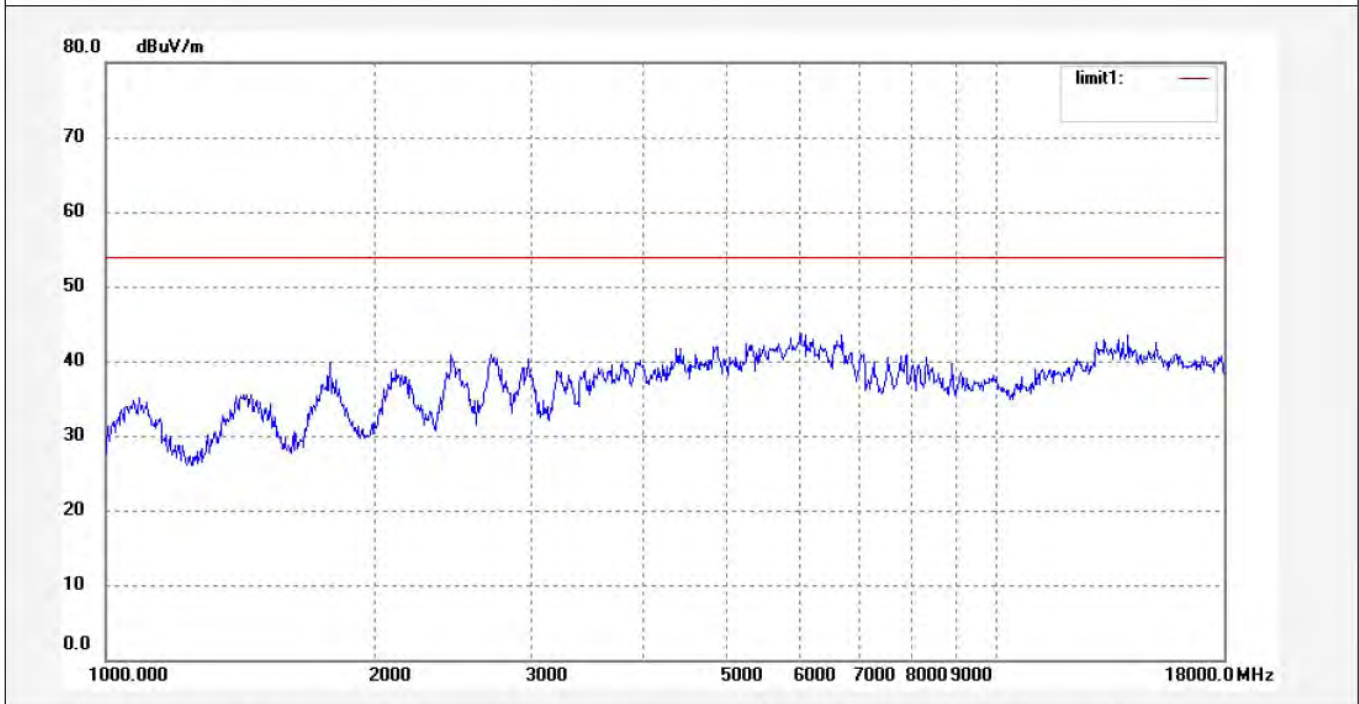
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3799	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 14/55/02
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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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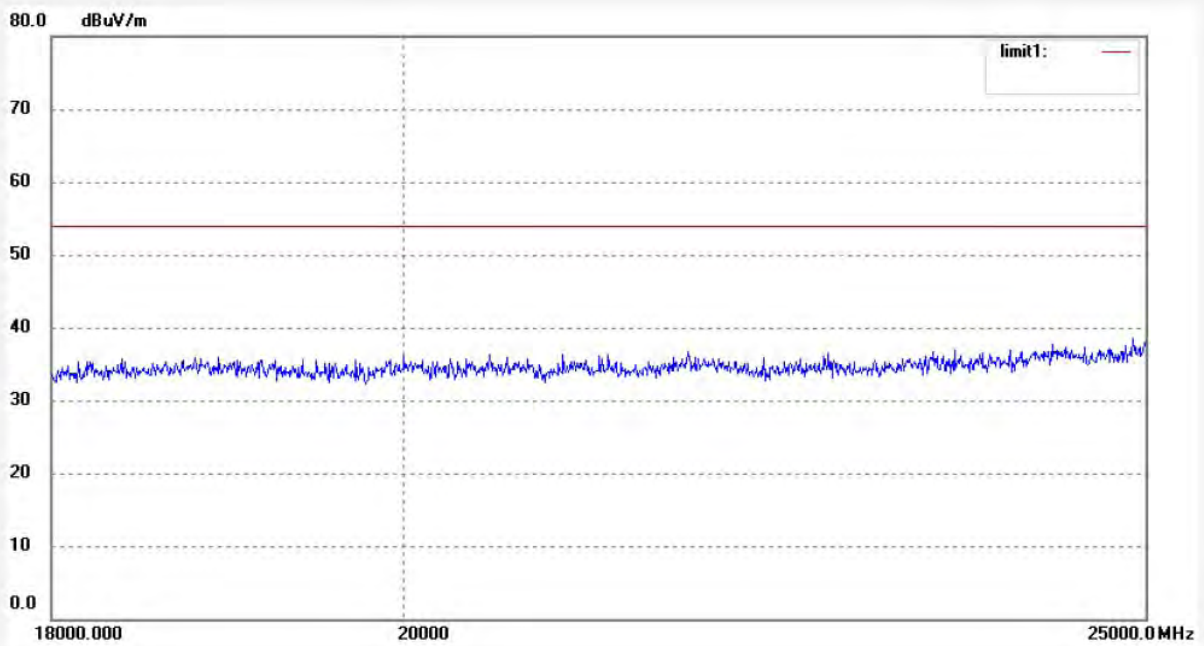
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3824	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 16/34/26
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

Note: Report No.:ATE20130161



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



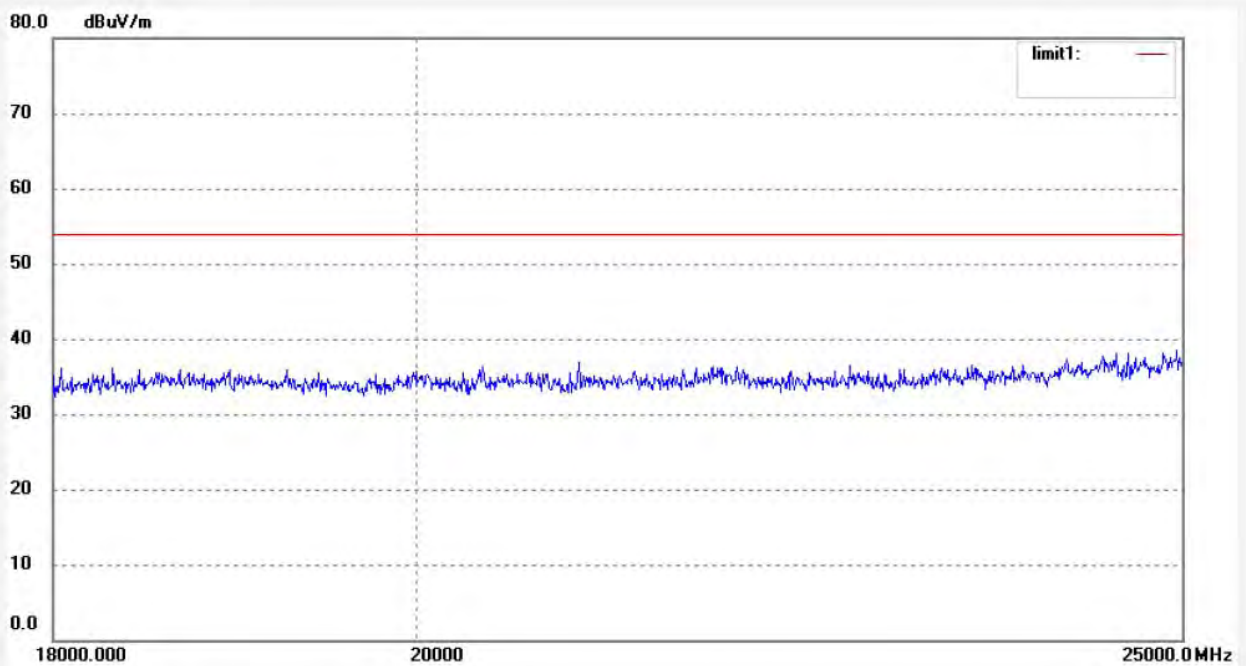
ACCURATE TECHNOLOGY CO., LTD.

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.: star #3823	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/02/02/
Temp.(C)/Hum.(%) 26 C / 55 %	Time: 16/29/12
EUT: WiFi Bridge	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: VAP11N	
Manufacturer: HouTian	

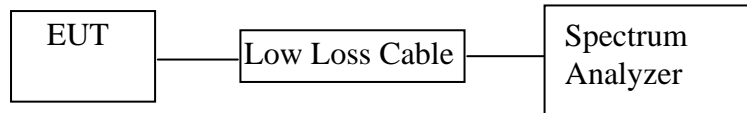
Note: Report No.:ATE20130161



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

10. CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

10.1. Block Diagram of Test Setup



(EUT: WiFi Bridge)

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. WiFi Bridge (EUT)

Model Number	:	VAP11N
Serial Number	:	N/A
Manufacturer	:	Shenzhen HouTian Network Communication Technology 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).

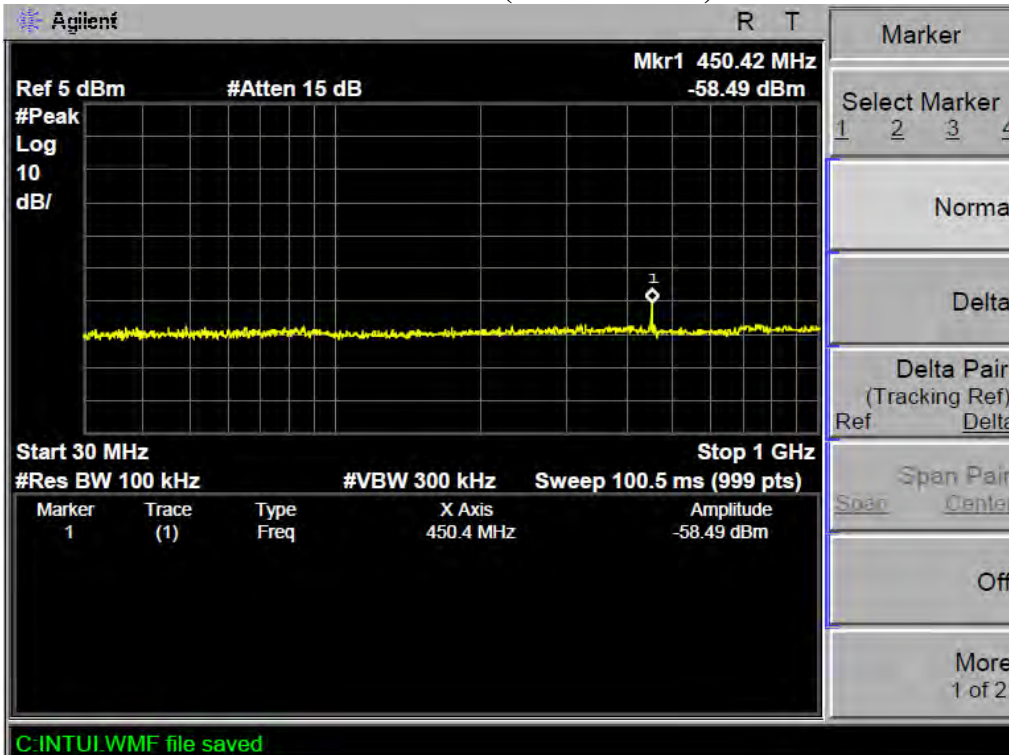
10.5.4. The Conducted Spurious Emission was measured and recorded.

10.6. Test Result

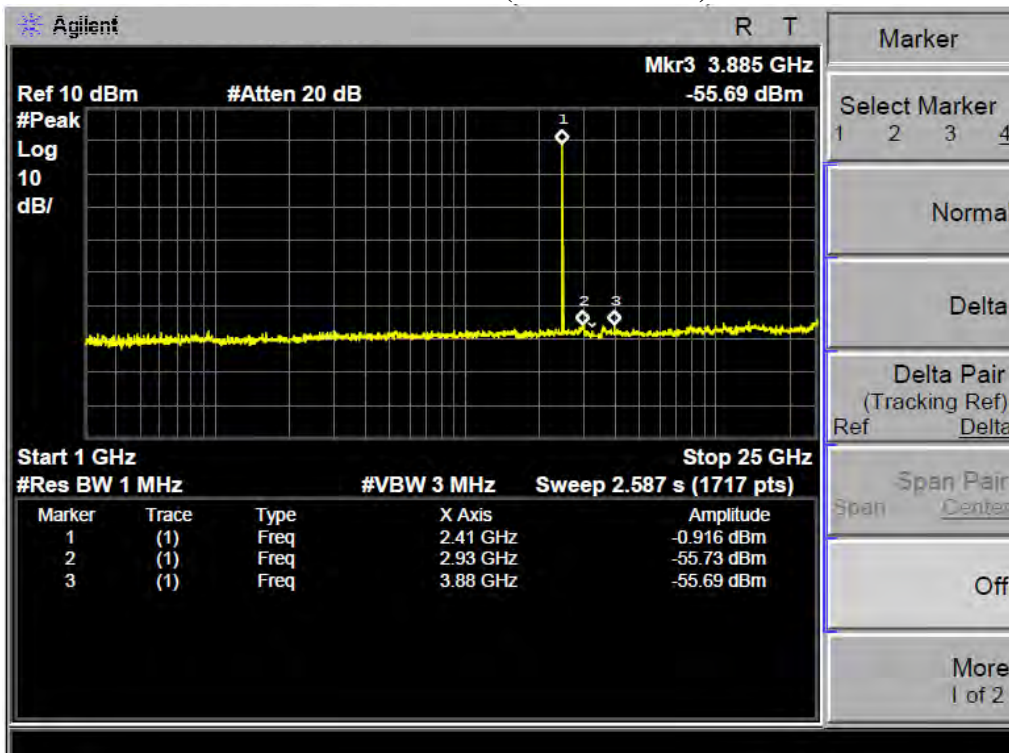
Pass.

The spectrum analyzer plots are attached as below.

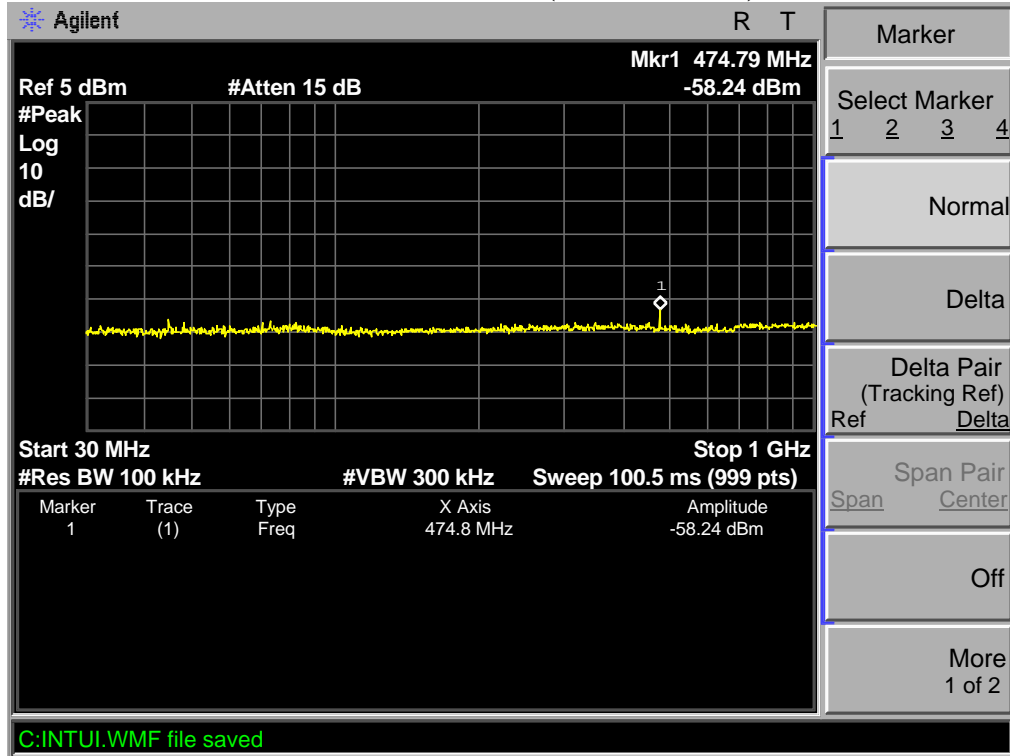
TX 802.11b Channel Low 2412MHz (30MHz-1GHz)



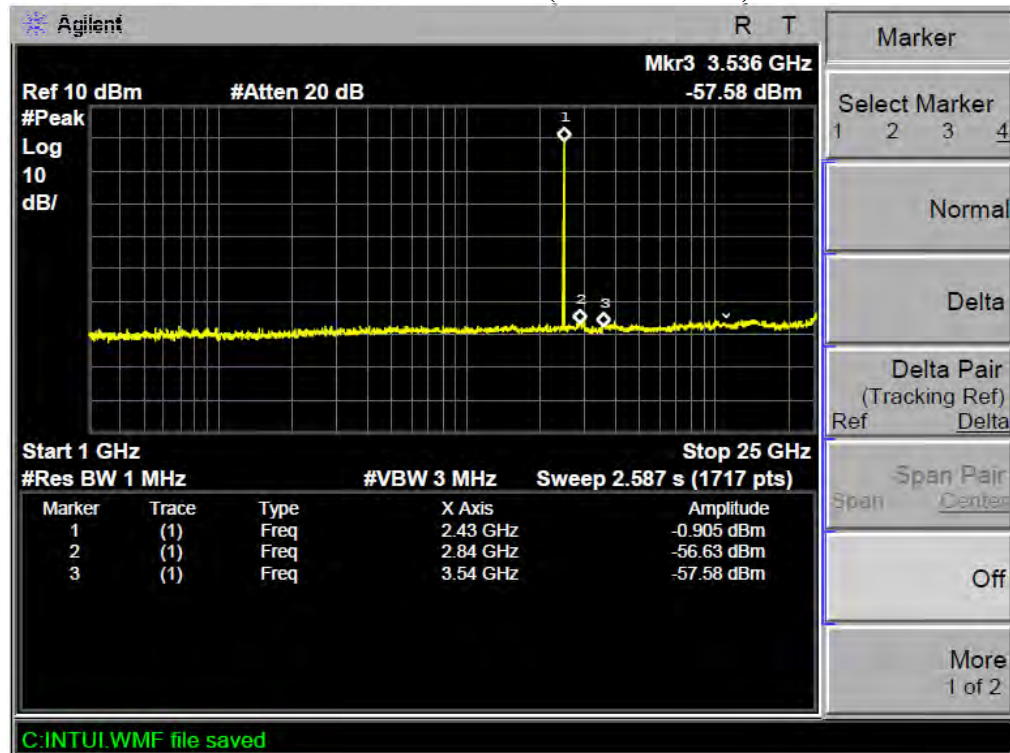
TX 802.11b Channel Low 2412MHz (1GHz-25GHz)



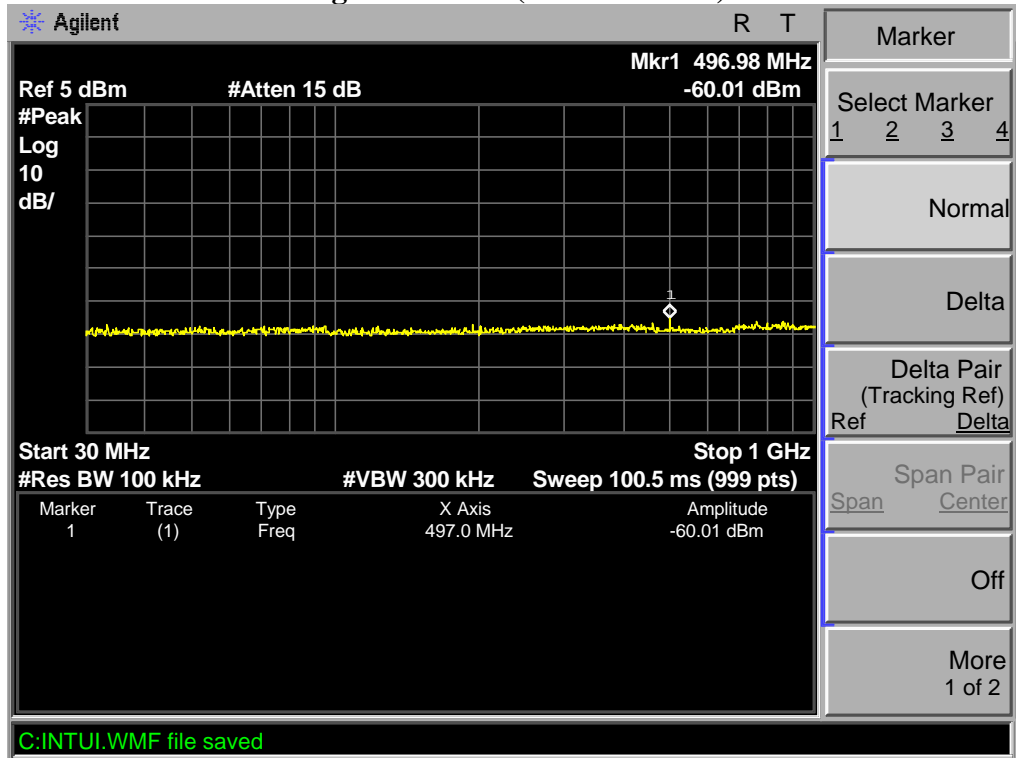
TX 802.11b Channel Middle 2437MHz (30MHz-1GHz)



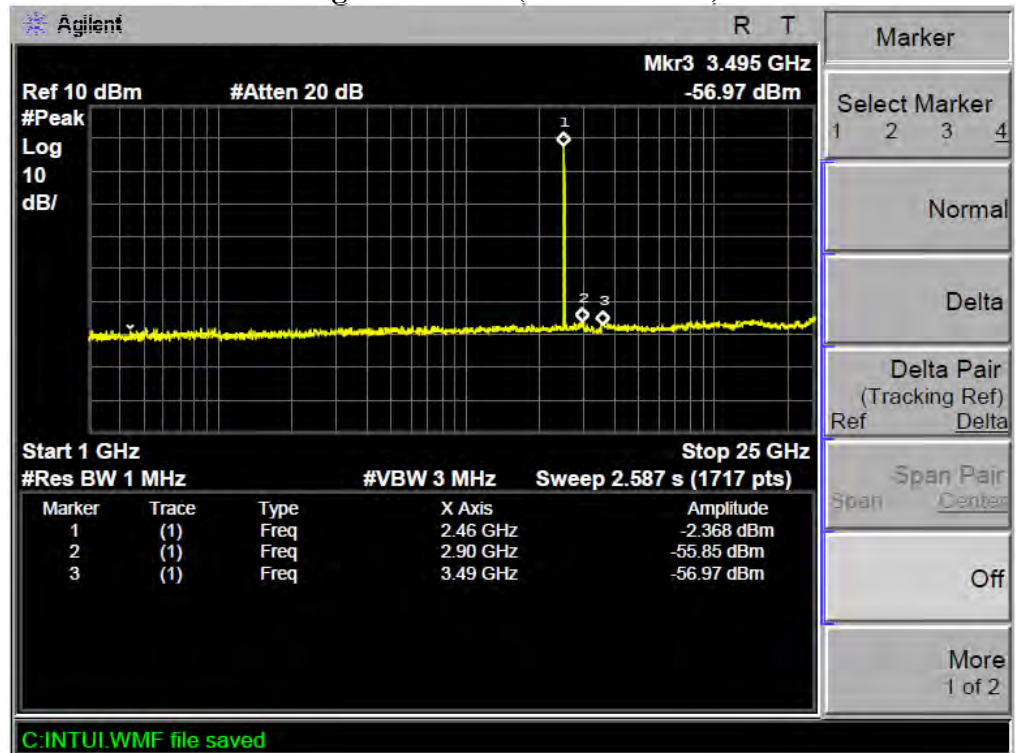
TX 802.11b Channel Middle 2437MHz (1GHz-25GHz)



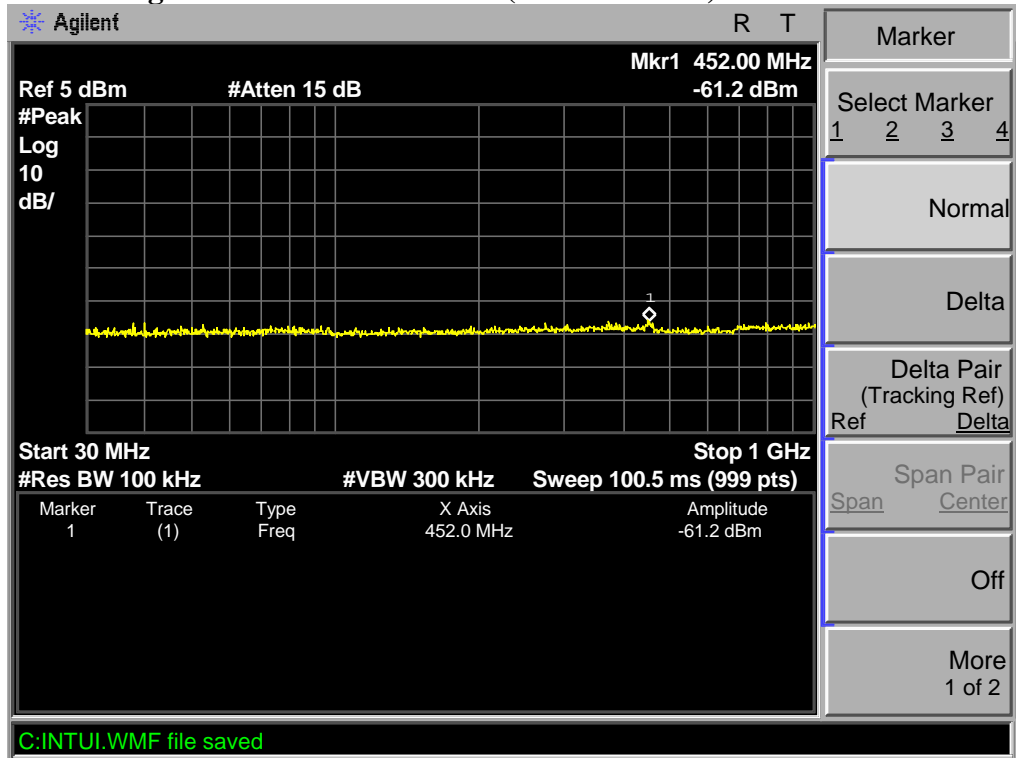
TX 802.11b Channel High 2462MHz (30MHz-1GHz)



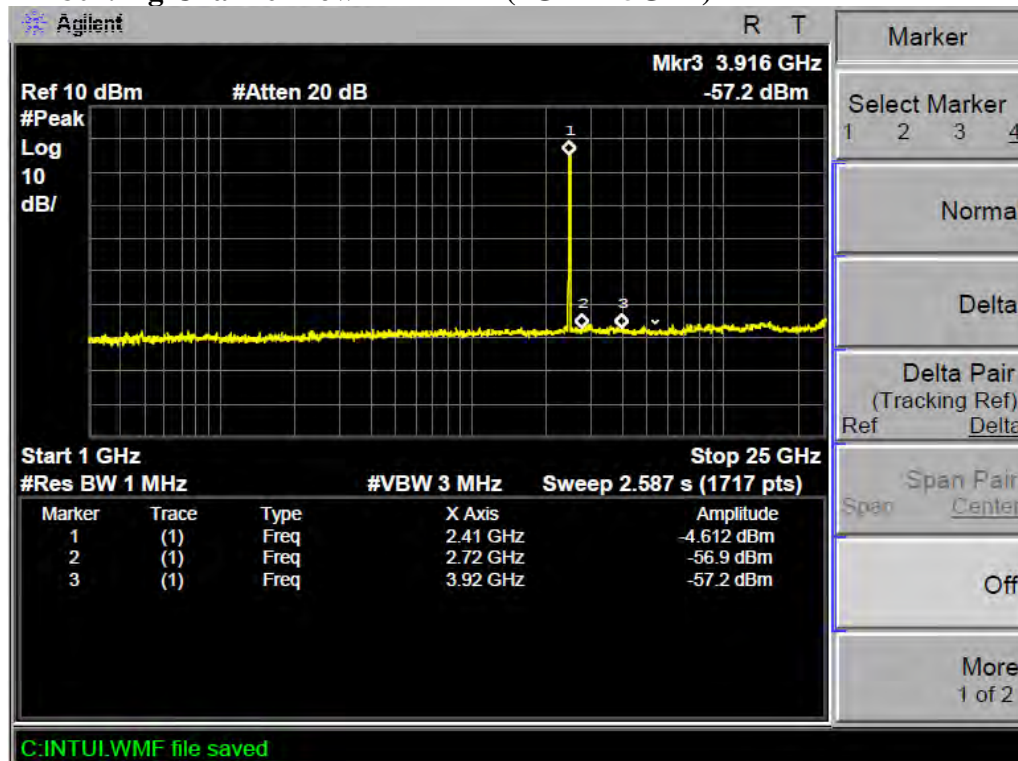
TX 802.11b Channel High 2462MHz (1GHz-25GHz)



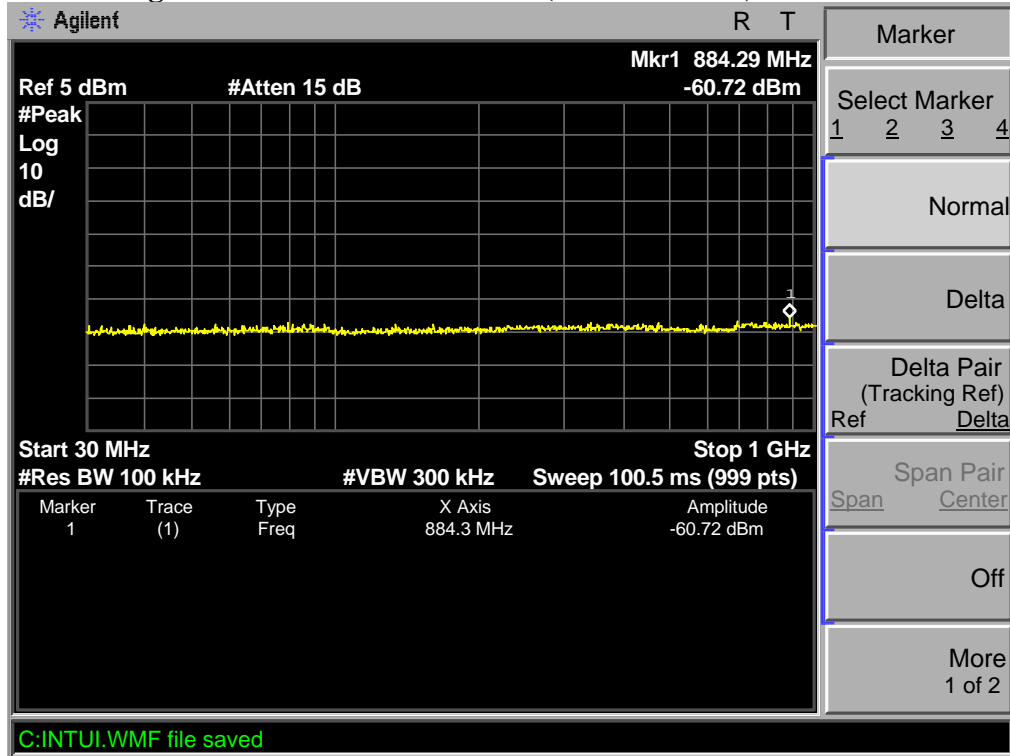
TX 802.11g Channel Low 2412MHz (30MHz-1GHz)



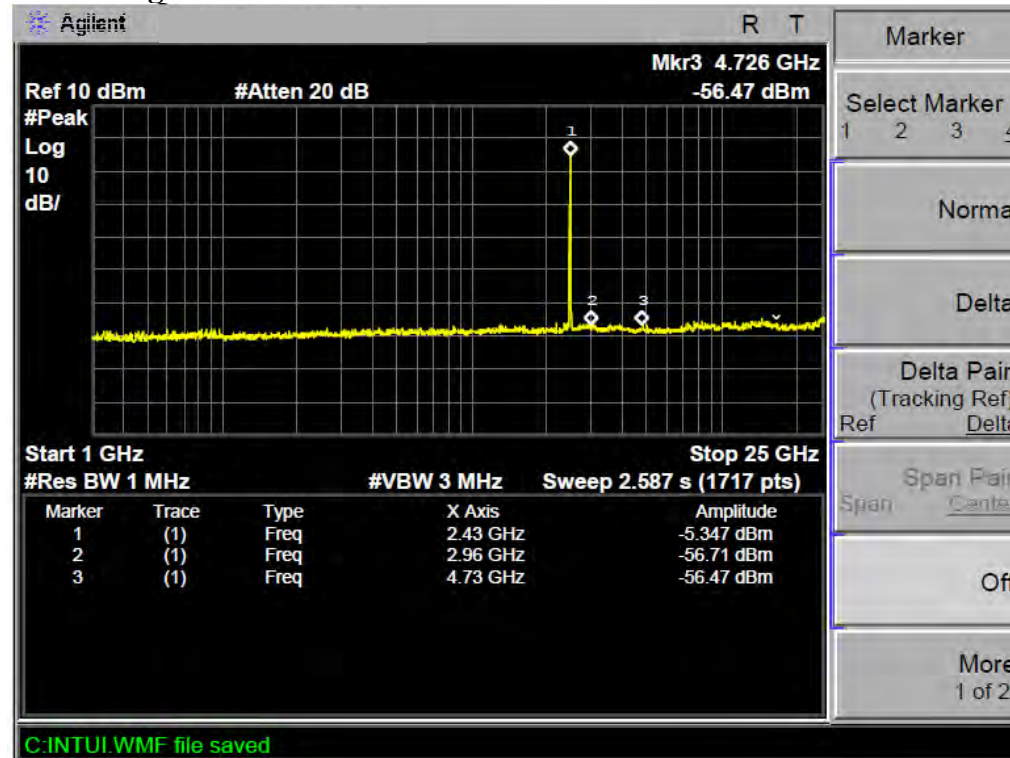
TX 802.11g Channel Low 2412MHz (1GHz-25GHz)



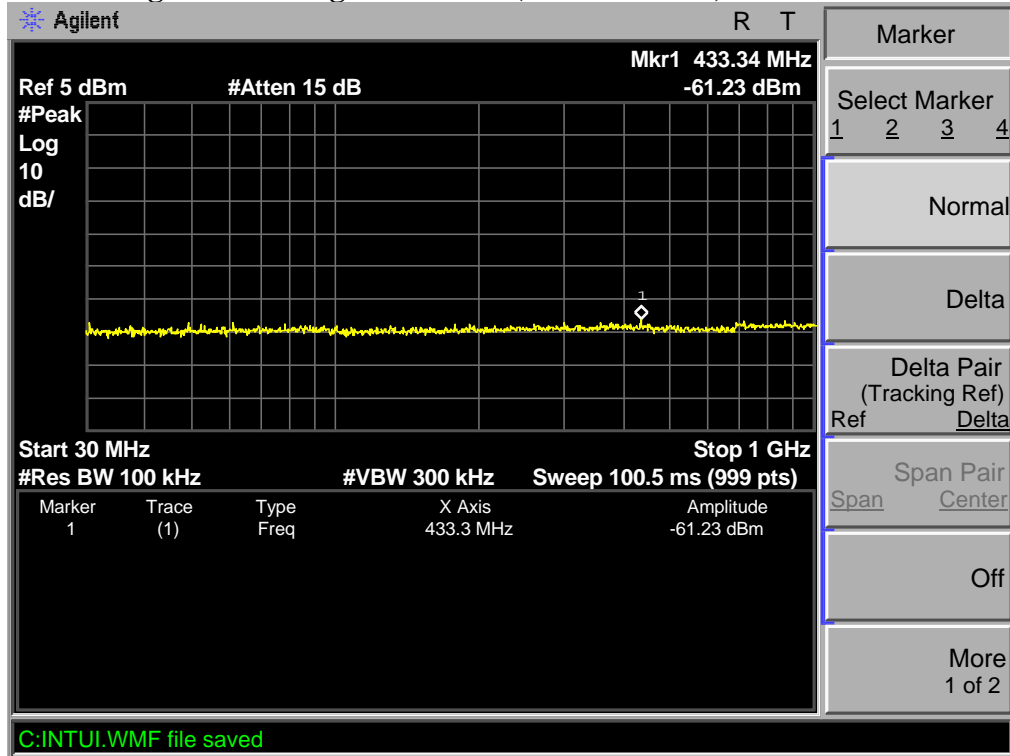
TX 802.11g Channel Middle 2437MHz (30MHz-1GHz)



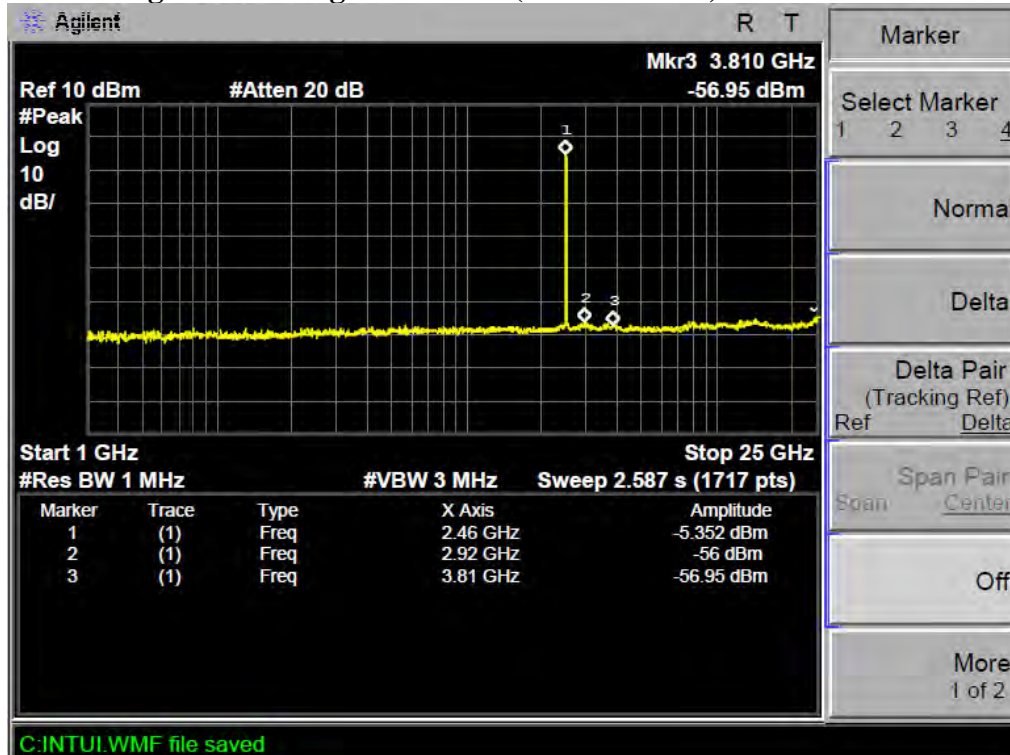
TX 802.11g Channel Middle 2437MHz



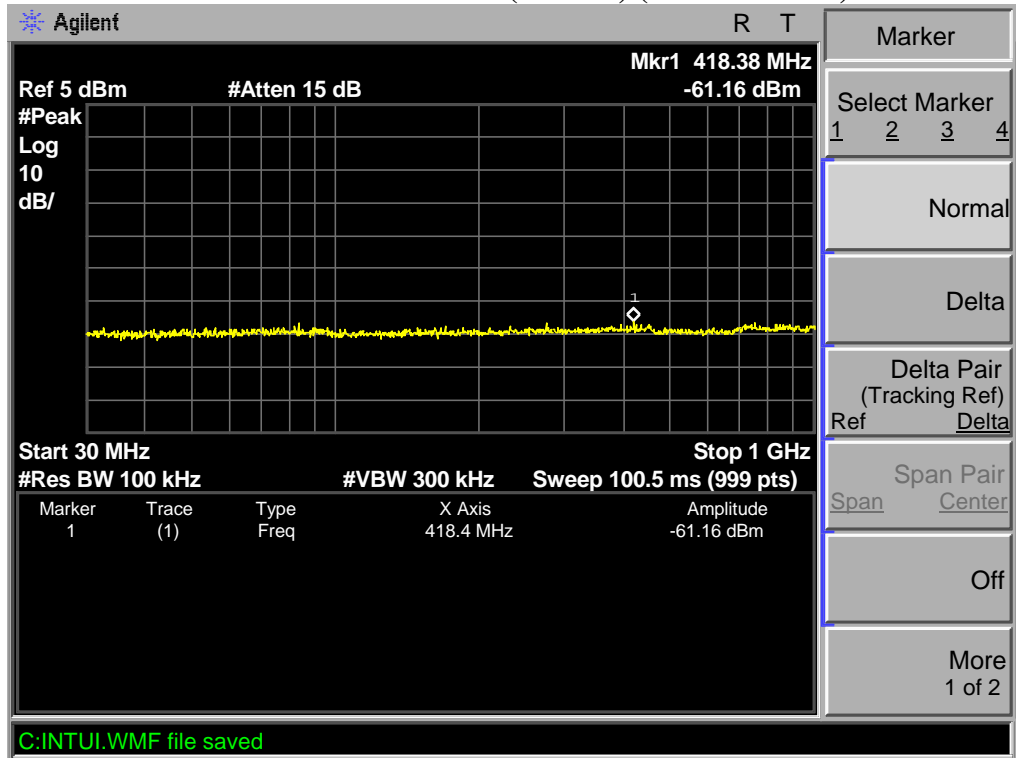
TX 802.11g Channel High 2462MHz (30MHz-1GHz)



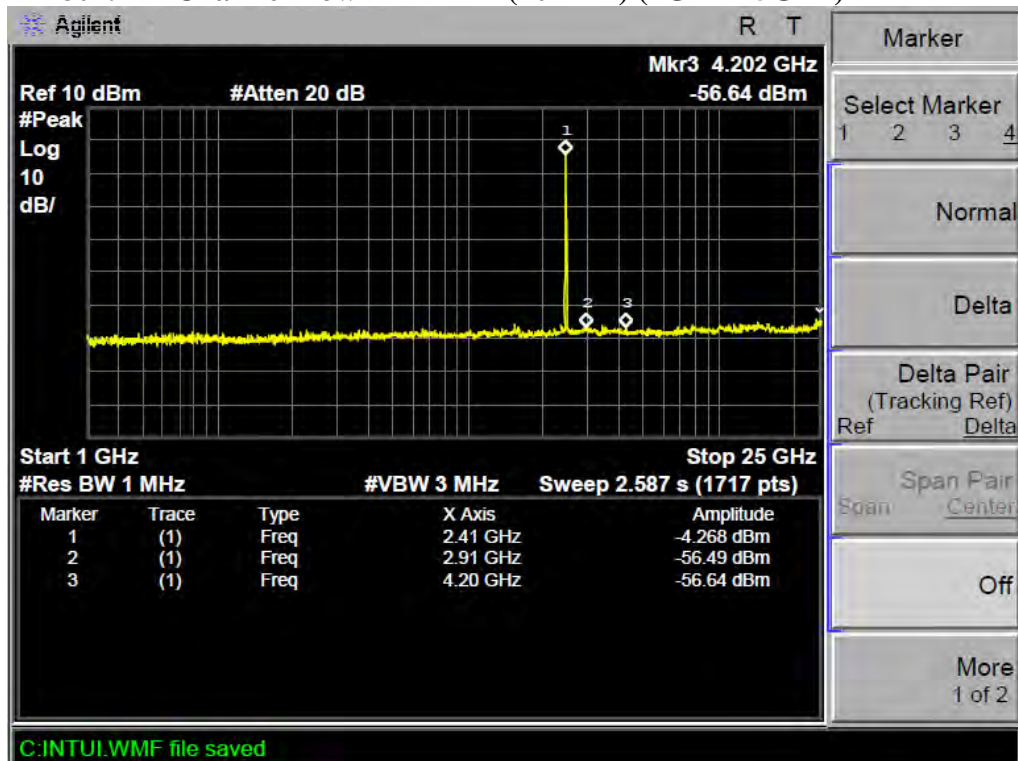
TX 802.11g Channel High 2462MHz (1GHz-25GHz)



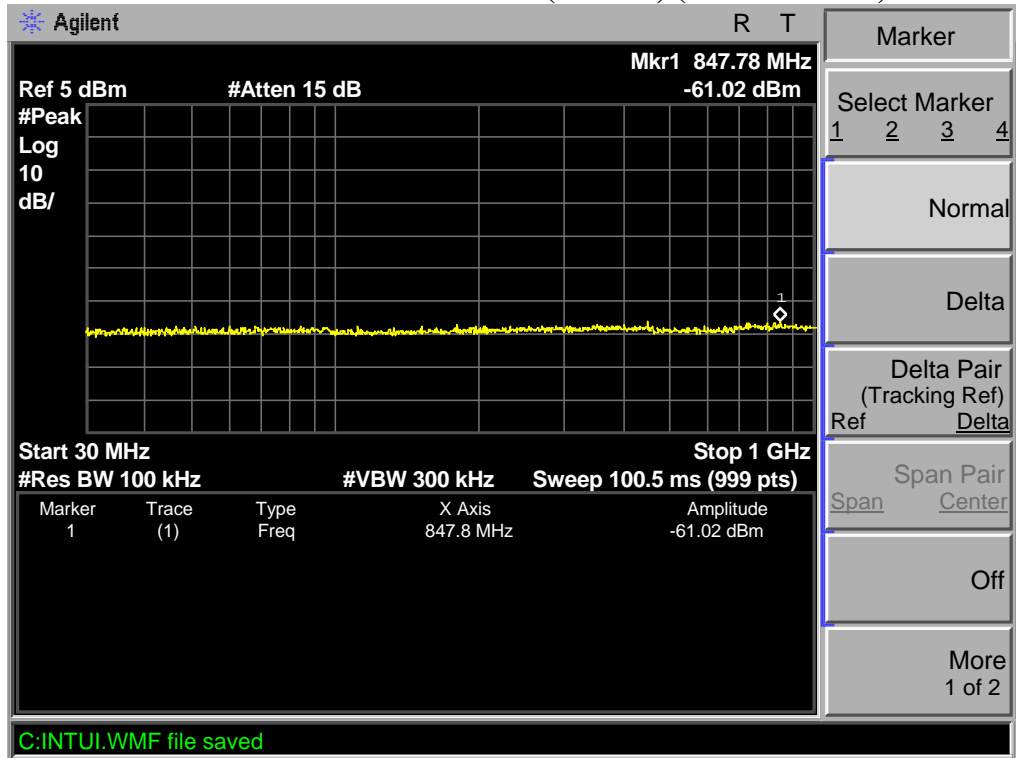
TX 802.11n Channel Low 2412MHz (20MHz) (30MHz-1GHz)



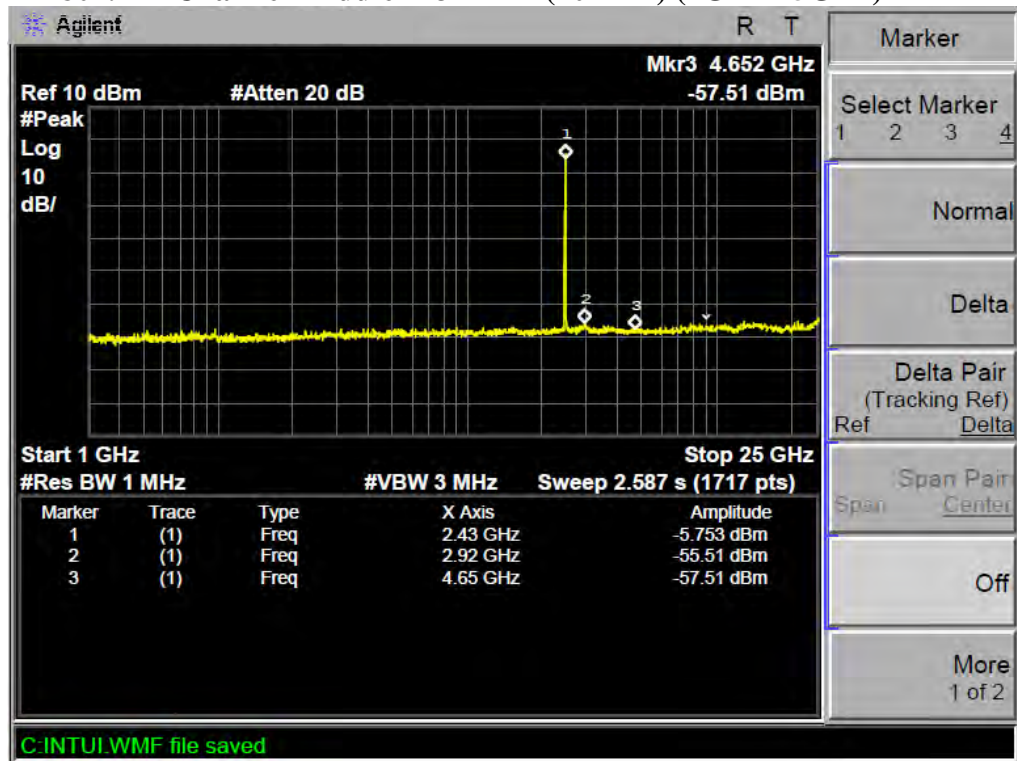
TX 802.11n Channel Low 2412MHz (20MHz) (1GHz-25GHz)



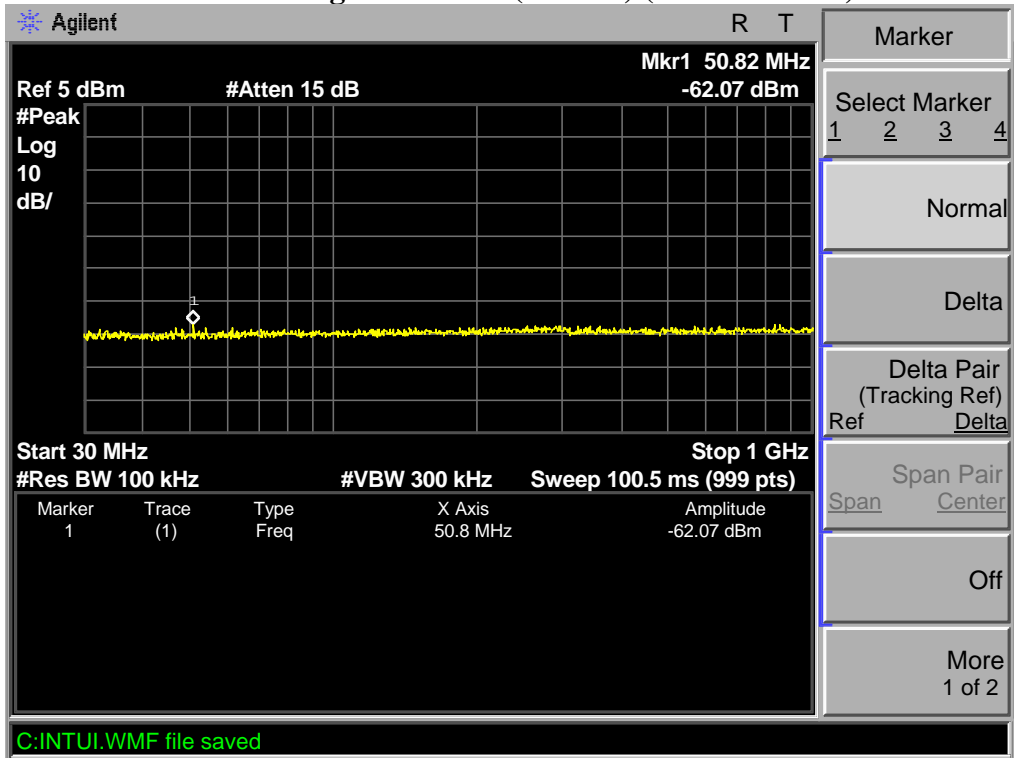
TX 802.11n Channel Middle 2437MHz (20MHz) (30MHz-1GHz)



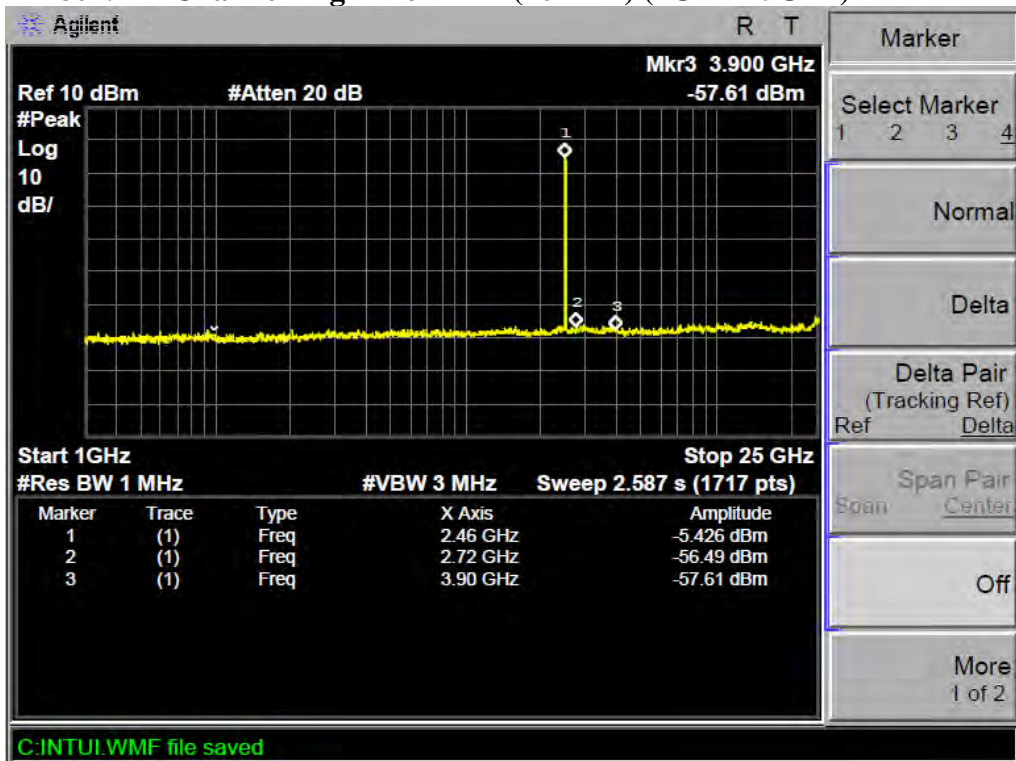
TX 802.11n Channel Middle 2437MHz (20MHz) (1GHz-25GHz)



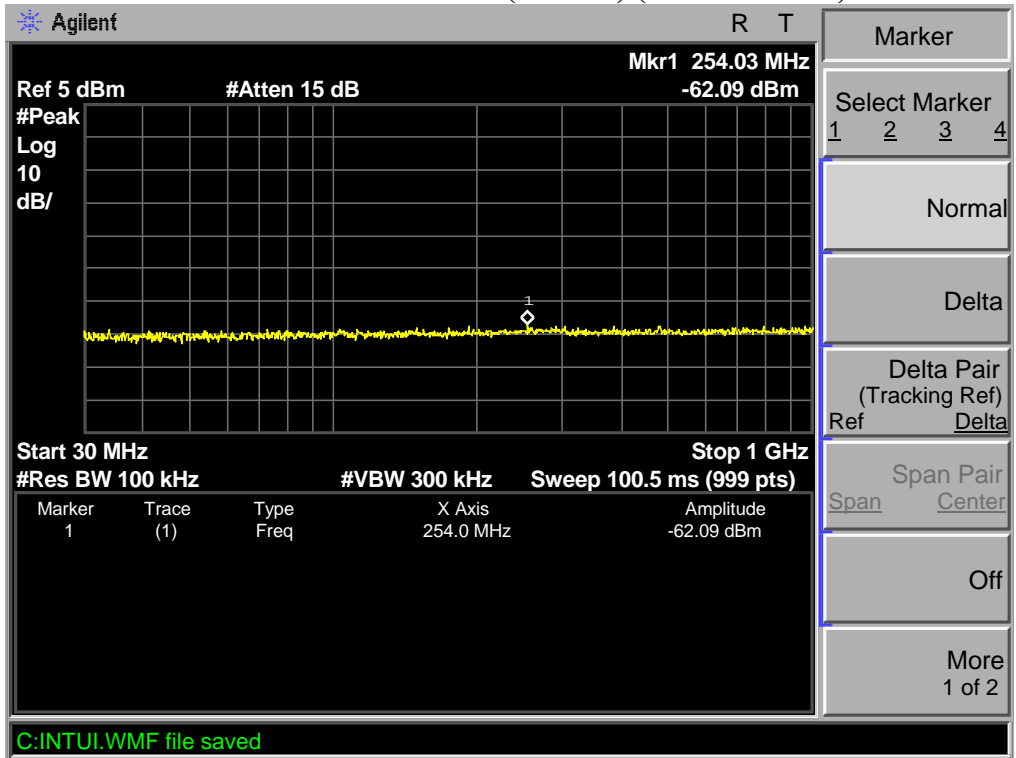
TX 802.11n Channel High 2462MHz (20MHz) (30MHz-1GHz)



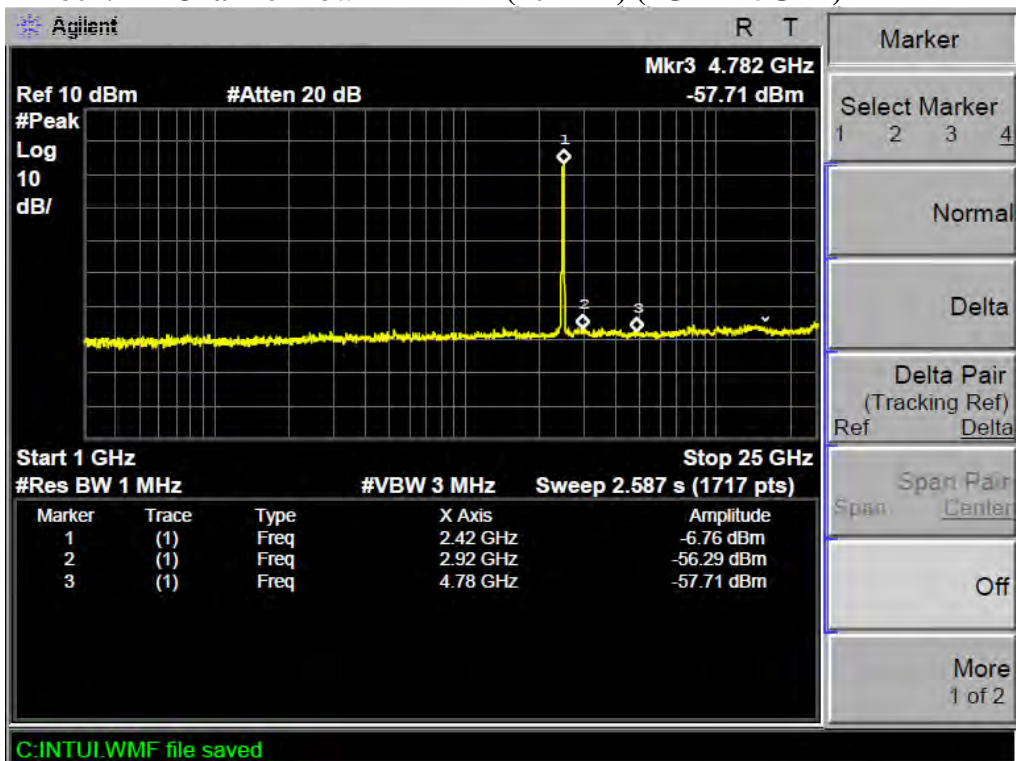
TX 802.11n Channel High 2462MHz (20MHz) (1GHz-25GHz)



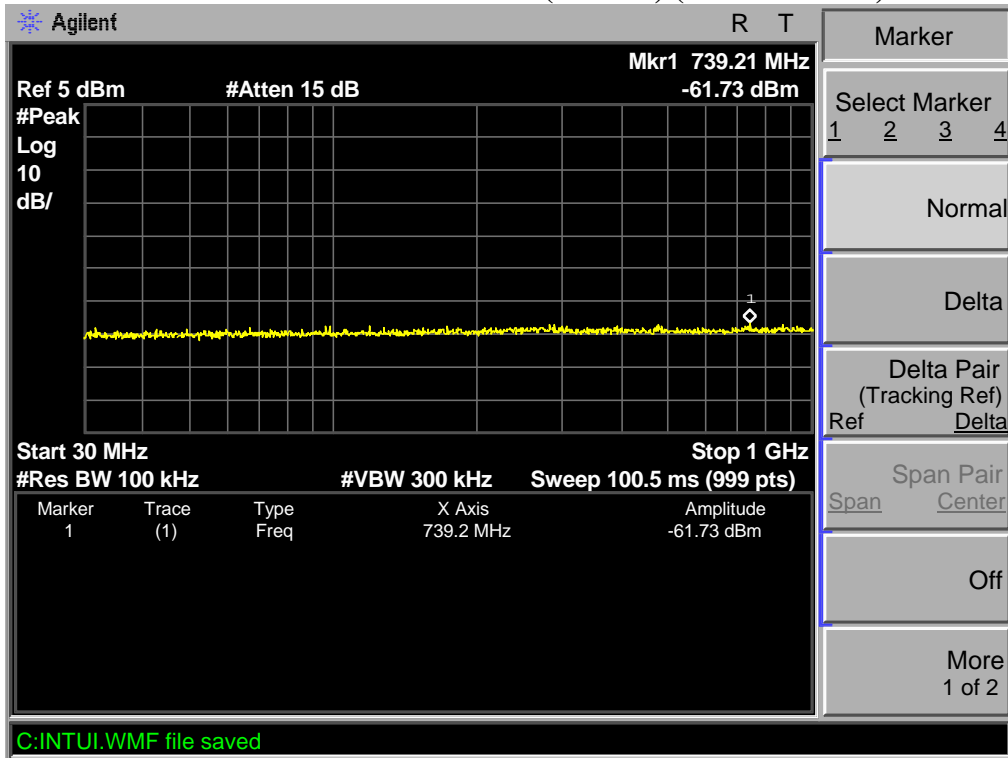
TX 802.11n Channel Low 2422MHz (40MHz) (30MHz-1GHz)



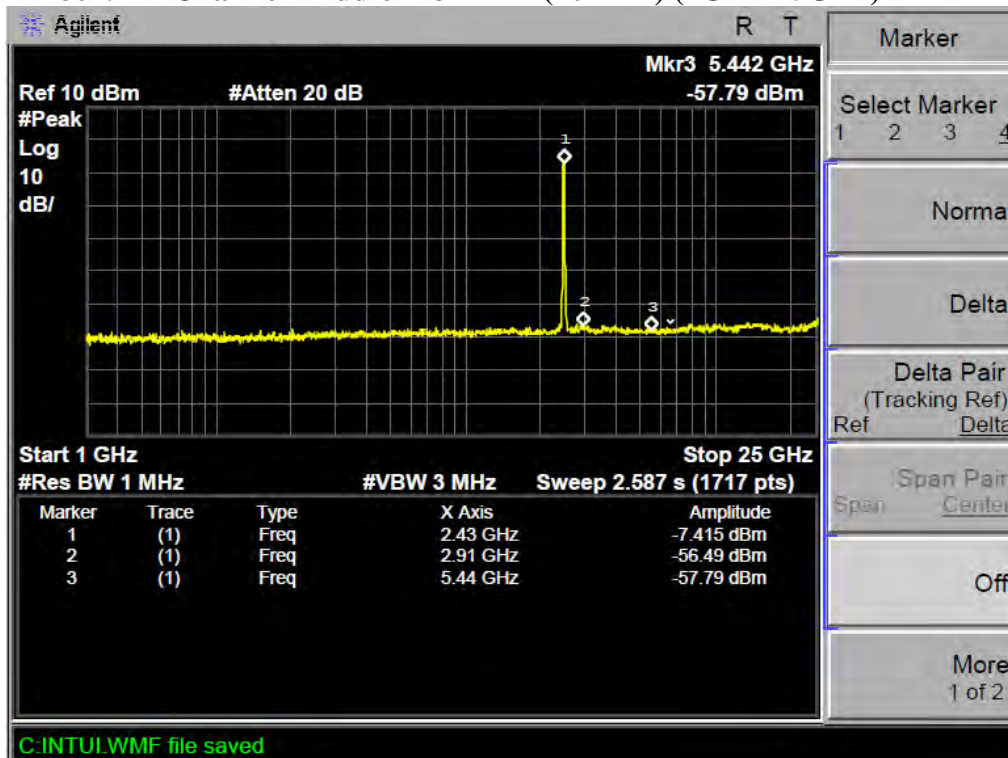
TX 802.11n Channel Low 2422MHz (40MHz) (1GHz-25GHz)



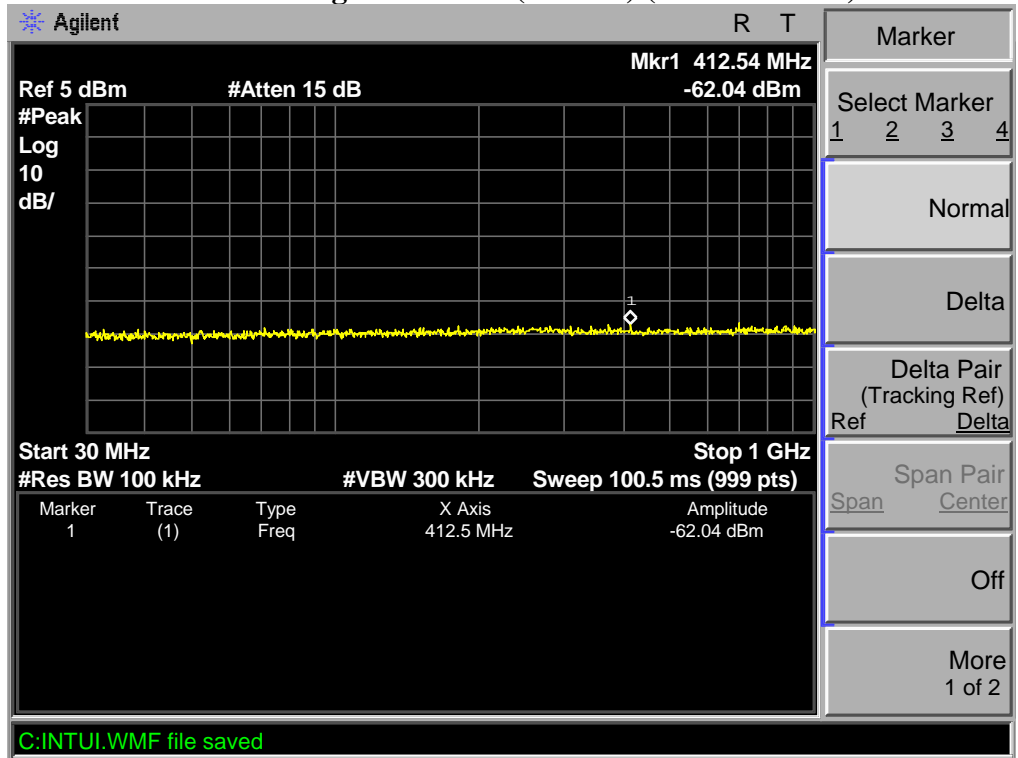
TX 802.11n Channel Middle 2437MHz (40MHz) (30MHz-1GHz)



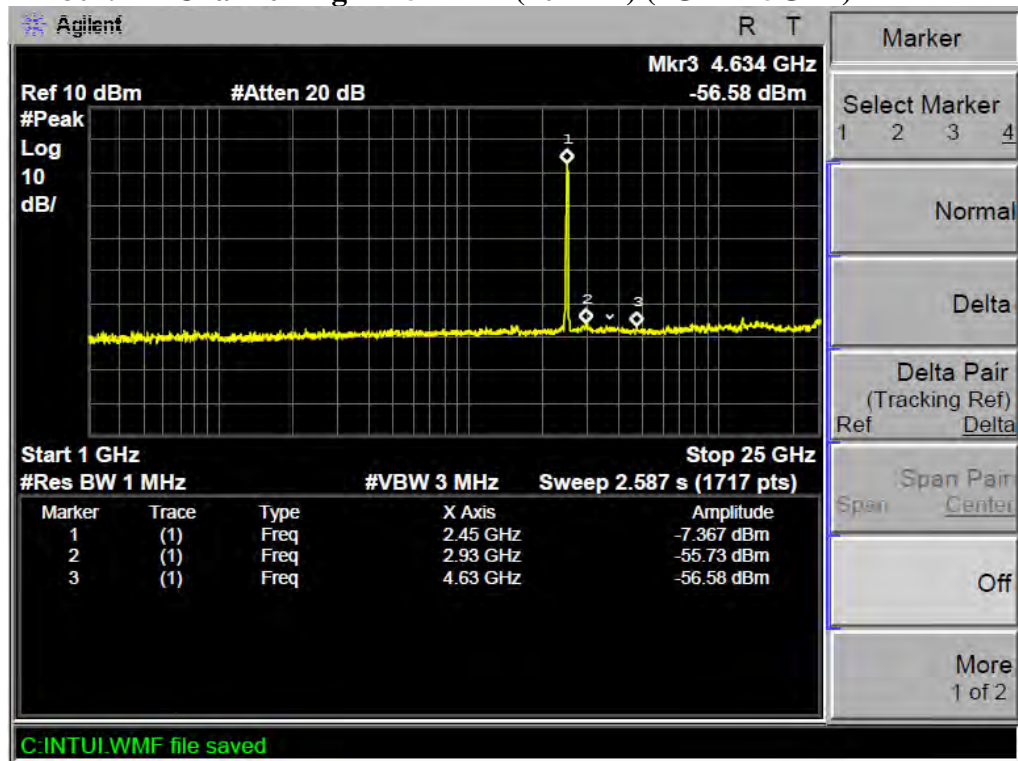
TX 802.11n Channel Middle 2437MHz (40MHz) (1GHz-25GHz)



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



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

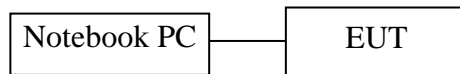


11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

15 SECTION 15.207(A)

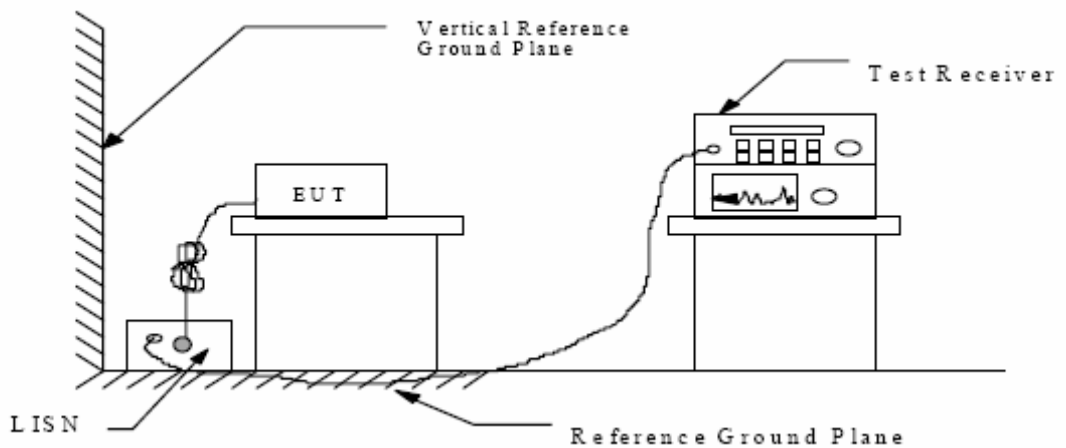
11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and simulators



(EUT: WiFi Bridge)

11.1.2.Shielding Room Test Setup Diagram



(EUT: WiFi Bridge)

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.WiFi Bridge (EUT)

Model Number : VAP11N
Serial Number : N/A
Manufacturer : Shenzhen HouTian Network Communication Technology 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 (Tx) 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:	<u>February 1, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>WiFi Bridge</u>	Humidity:	<u>50%</u>
Model No.:	<u>VAP11N</u>	Power Supply:	<u>DC 5V(Power by PC)</u>
Test Mode:	<u>Tx</u>	Test Engineer:	<u>Pei</u>

Frequency (MHz)	Result (dB μ V)	Limit (dB μ V)	Margin (dB)	Detector	Line
0.155490	52.70	66	-13.0	QP	Neutral
11.138660	42.20	60	-17.8	QP	
0.155490	39.90	56	-15.8	AV	
12.113205	38.60	50	-11.4	AV	
0.155025	52.80	66	-12.9	QP	Live
9.970075	44.90	60	-15.1	QP	
0.155025	38.10	56	-17.6	AV	
9.970075	38.00	50	-12.0	AV	

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

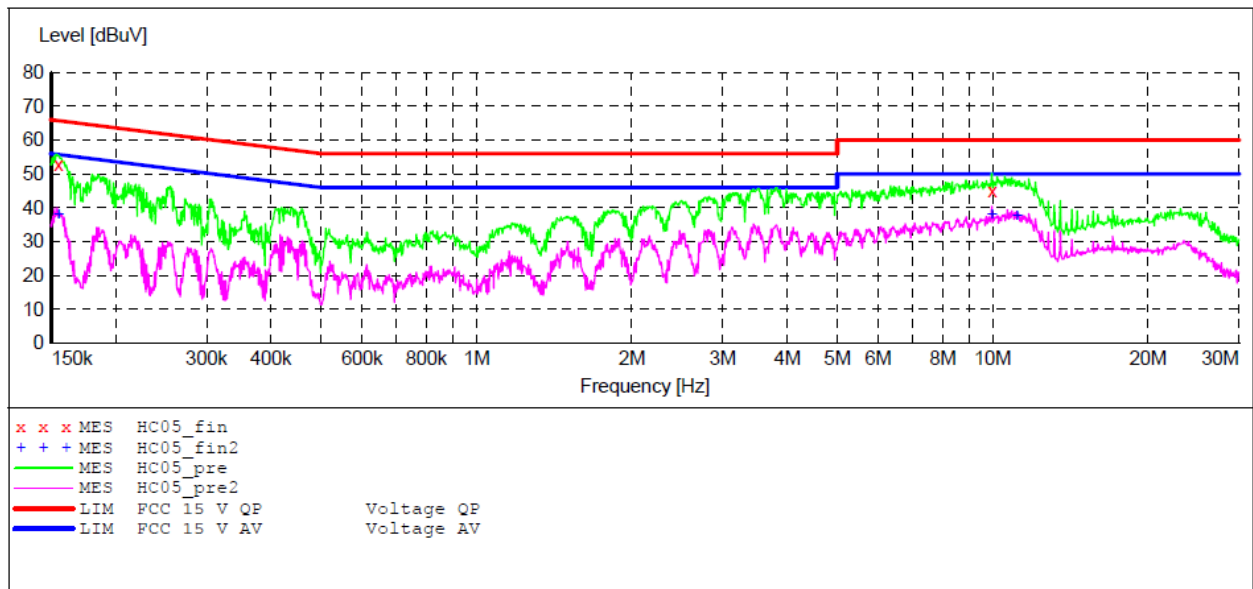
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15

EUT: WiFi Bridge M/N:VAP11N
 Manufacturer: HouTian
 Operating Condition: Tx
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: L 120V/60Hz
 Comment: Report No.:ATE20130181
 Start of Test: 2013-02-04 / 17:35:59

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

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "HC05_fin"

2013-02-04 17:37

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.155025	52.80	11.9	66	12.9	QP	L1	GND
9.970075	44.90	11.9	60	15.1	QP	L1	GND

MEASUREMENT RESULT: "HC05_fin2"

2013-02-04 17:37

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.155025	38.10	11.9	56	17.6	AV	L1	GND
9.970075	38.00	11.9	50	12.0	AV	L1	GND

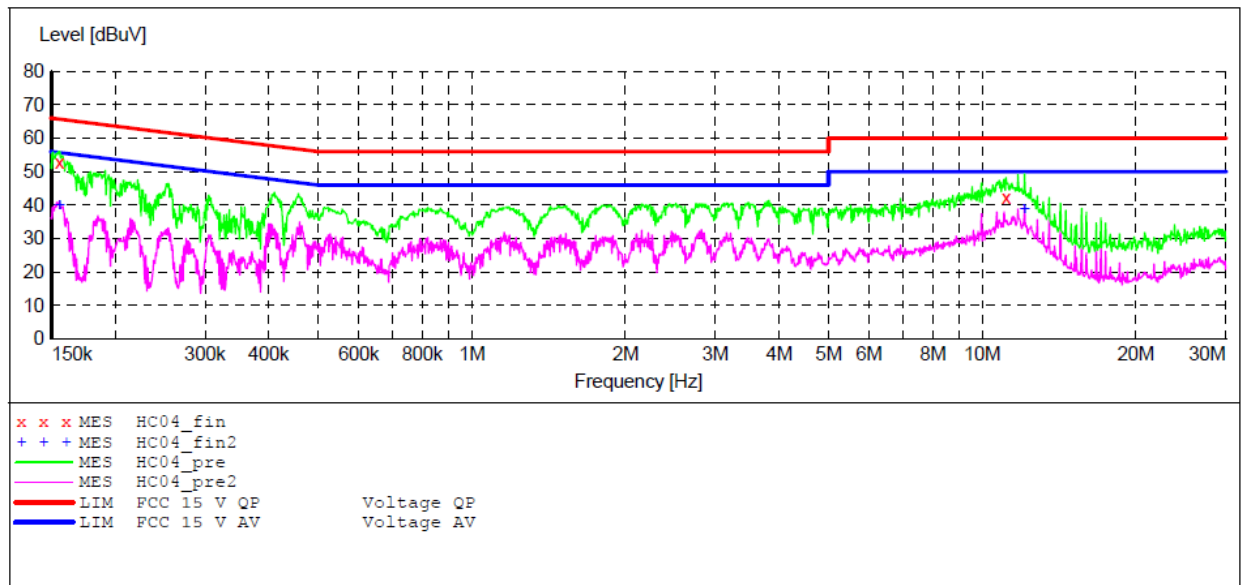
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15

EUT: WiFi Bridge M/N:VAP11N
 Manufacturer: HouTian
 Operating Condition: Tx
 Test Site: 2#Shielding Room
 Operator: Star
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20130181
 Start of Test: 2013-02-04 / 17:34:13

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

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 0.4 % QuasiPeak 1.0 s 9 kHz LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "HC04_fin"

2013-02-04 17:35

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.155490	52.70	11.9	66	13.0	QP	N	GND
11.138660	42.20	11.9	60	17.8	QP	N	GND

MEASUREMENT RESULT: "HC04_fin2"

2013-02-04 17:35

Frequency MHz	Level dBuV	Transd dB	Limit dBuV	Margin dB	Detector	Line	PE
0.155490	39.90	11.9	56	15.8	AV	N	GND
12.113205	38.60	12.0	50	11.4	AV	N	GND

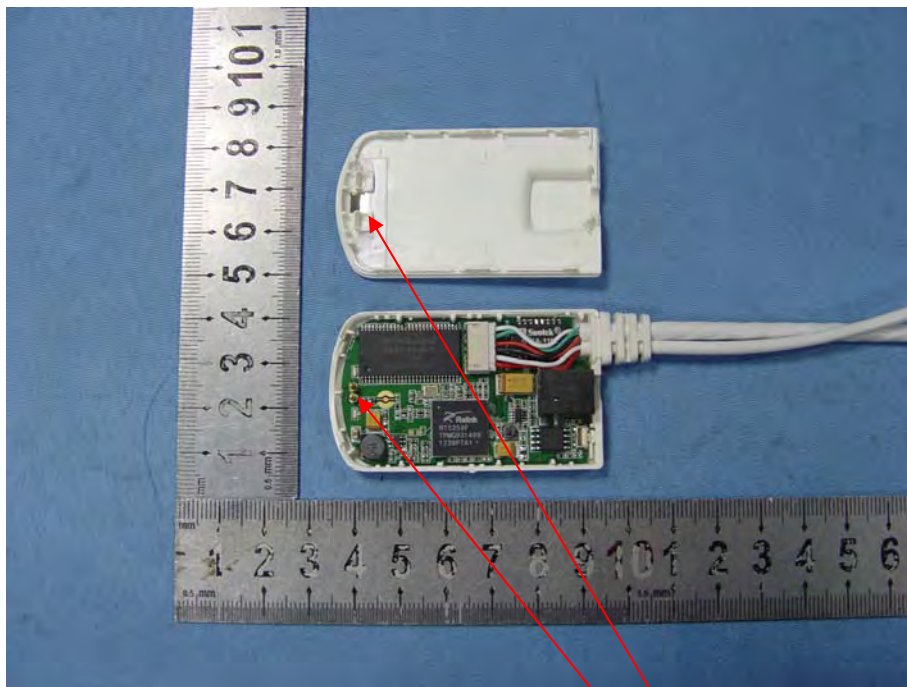
12.ANTENNA REQUIREMENT

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