



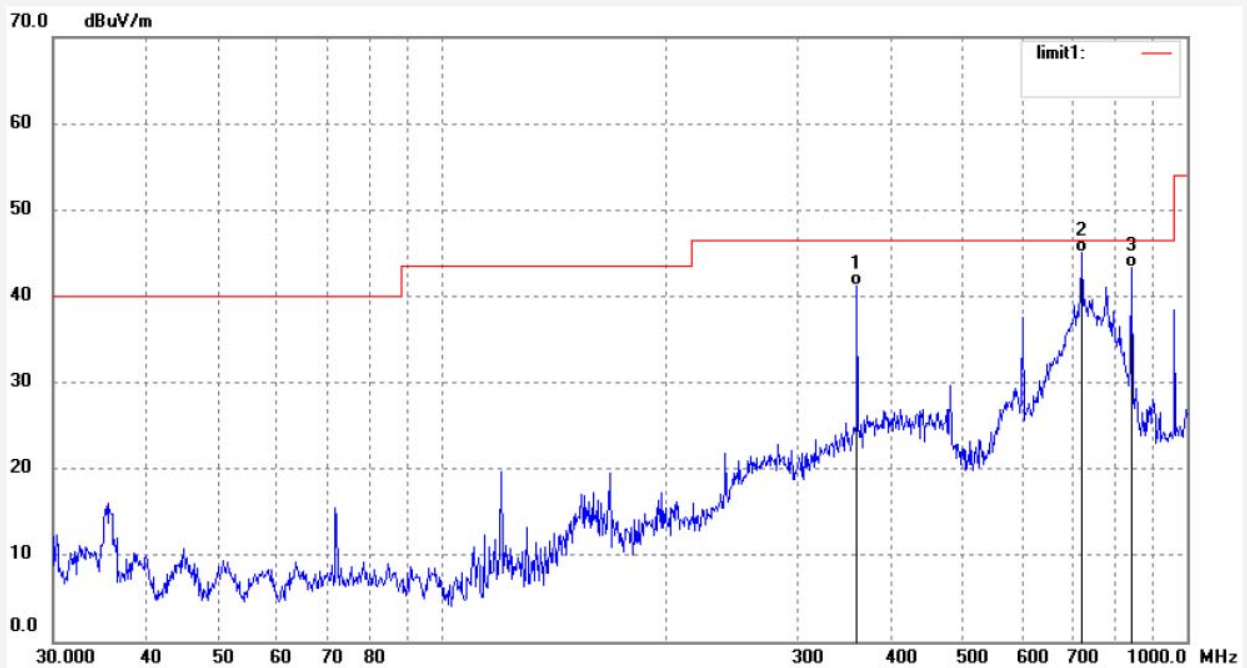
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #2350	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 10/11/15
EUT: Wifi Repeater	Engineer Signature: STAR
Mode: TX Channel 6(802.11n)	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.4476	57.20	-15.92	41.28	46.50	-5.22	QP			
2	721.7259	54.30	-9.28	45.02	46.50	-1.48	QP			
3	842.1296	50.48	-7.10	43.38	46.50	-3.12	QP			



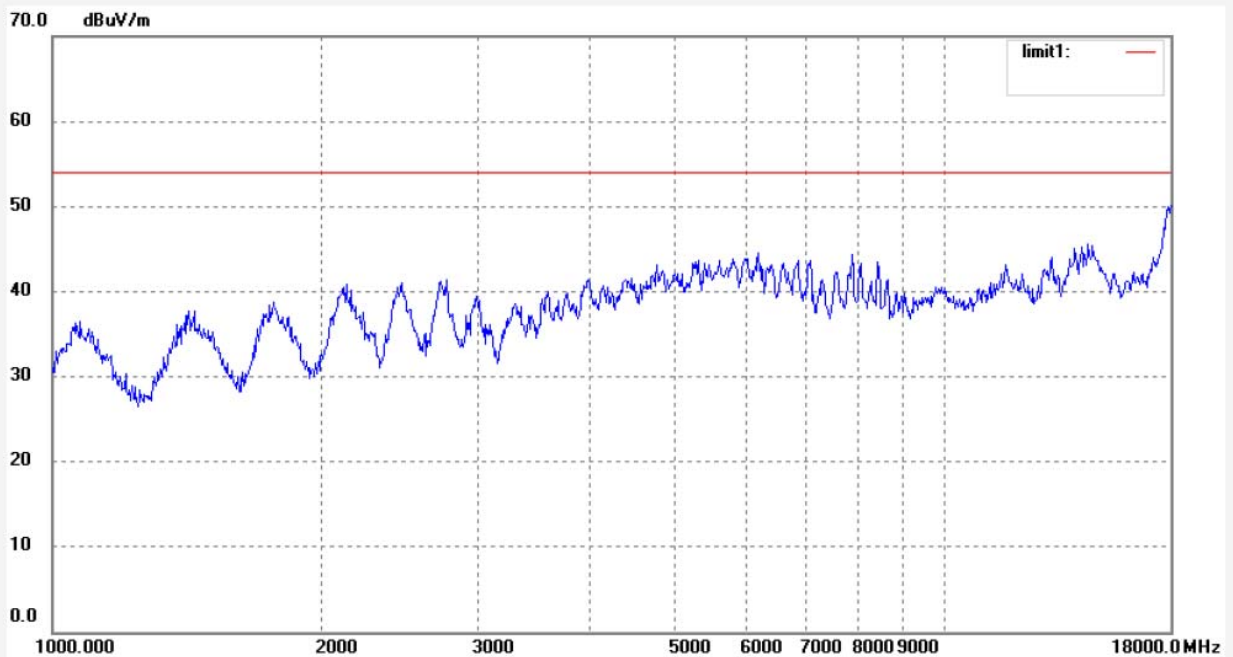
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2523	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/24/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 10/51/47
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 6(802.11n)	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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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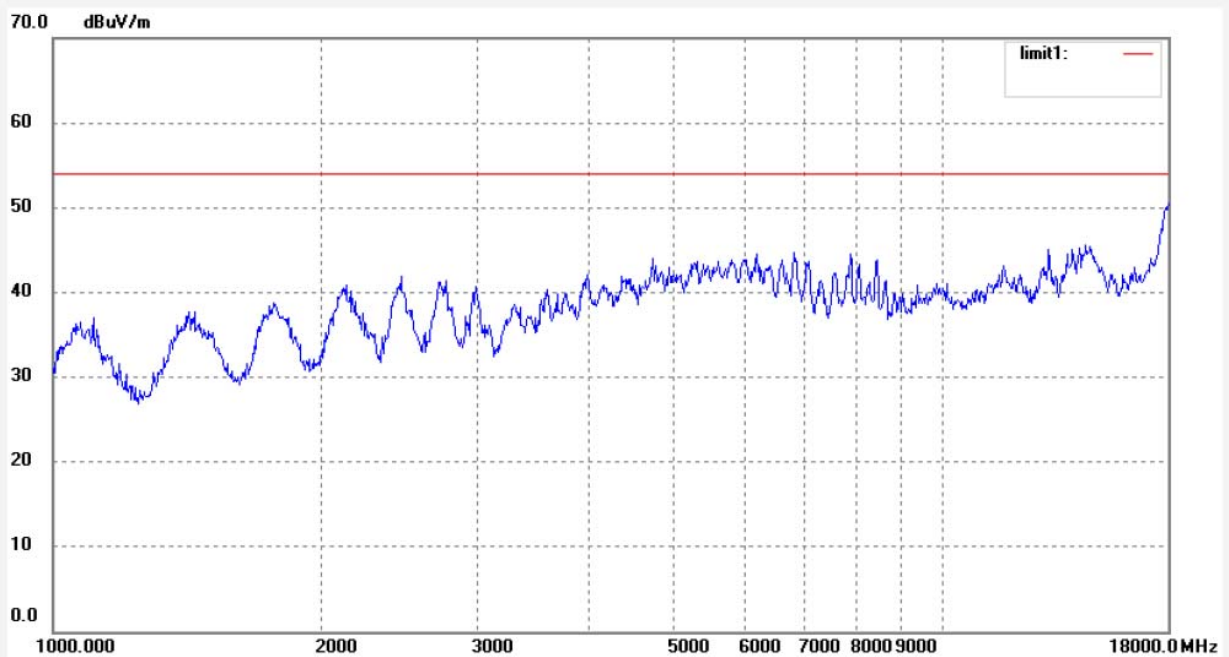
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2524	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/24/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 10/58/44
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 6(802.11n)	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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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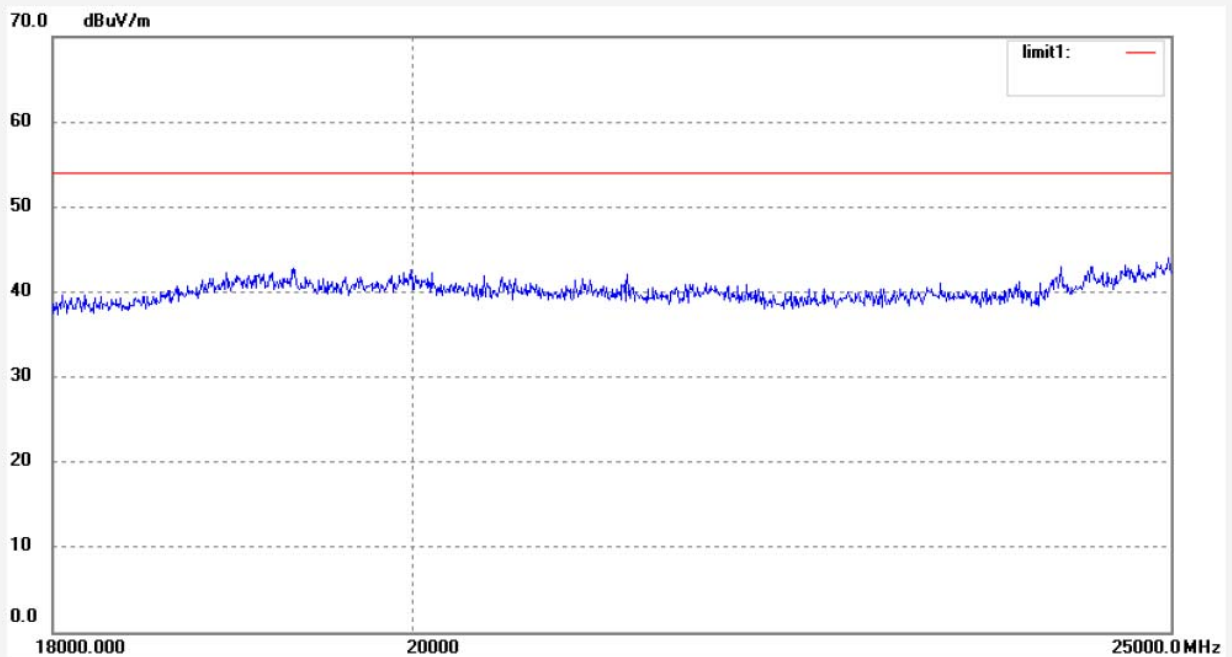
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2547	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 12/30/57
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 6(802.11n)	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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.**

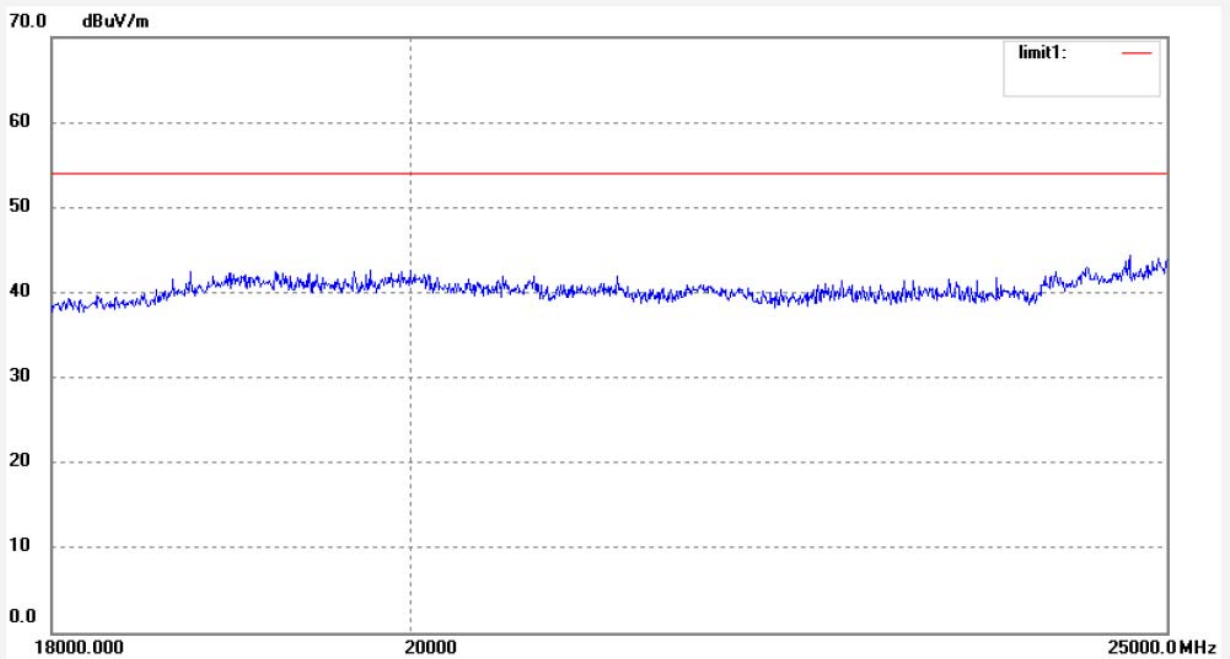
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: star #2548  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 49 %  
EUT: Wifi Repeater  
Mode: TX Channel 6(802.11n)  
Model: VRP150  
Manufacturer: HouTian

Polarization: Vertical  
Power Source: DC 5V  
Date: 13/07/25/  
Time: 12/34/06  
Engineer Signature:  
Distance: 3m

Note: Report No.:ATE20131606



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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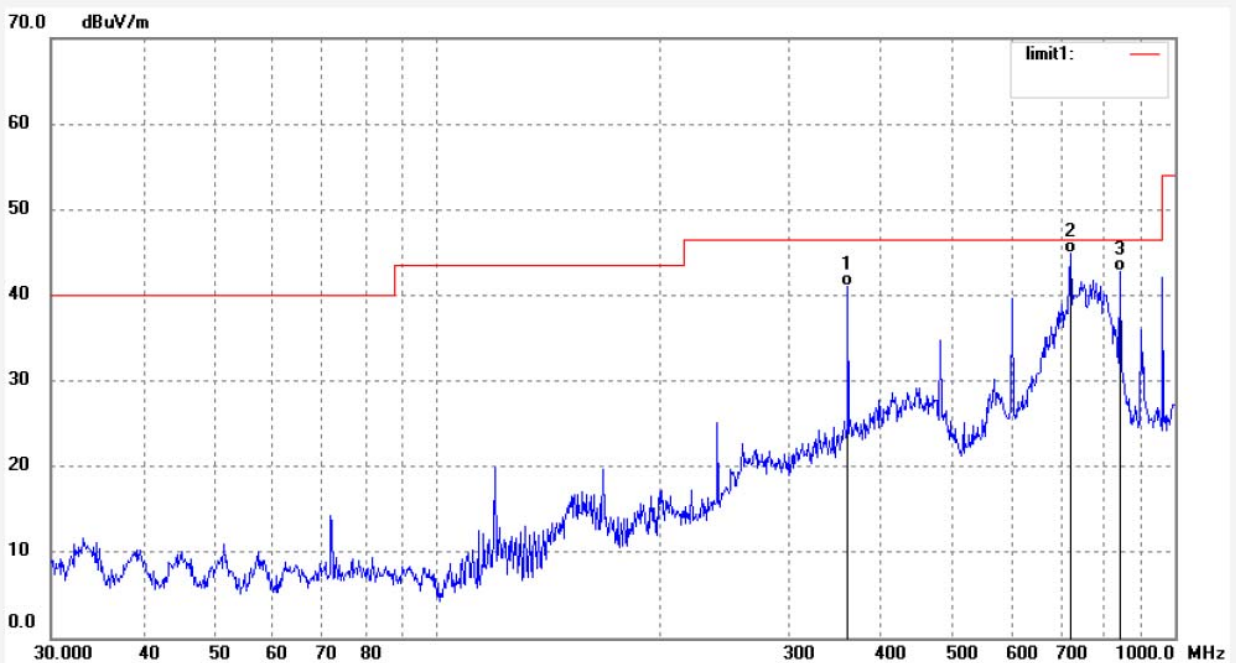
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #2351	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 10/16/50
EUT: Wifi Repeater	Engineer Signature: STAR
Mode: TX Channel 11(802.11n)	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.4476	56.99	-15.92	41.07	46.50	-5.43	QP			
2	721.7259	54.22	-9.28	44.94	46.50	-1.56	QP			
3	842.1295	49.87	-7.10	42.77	46.50	-3.73	QP			



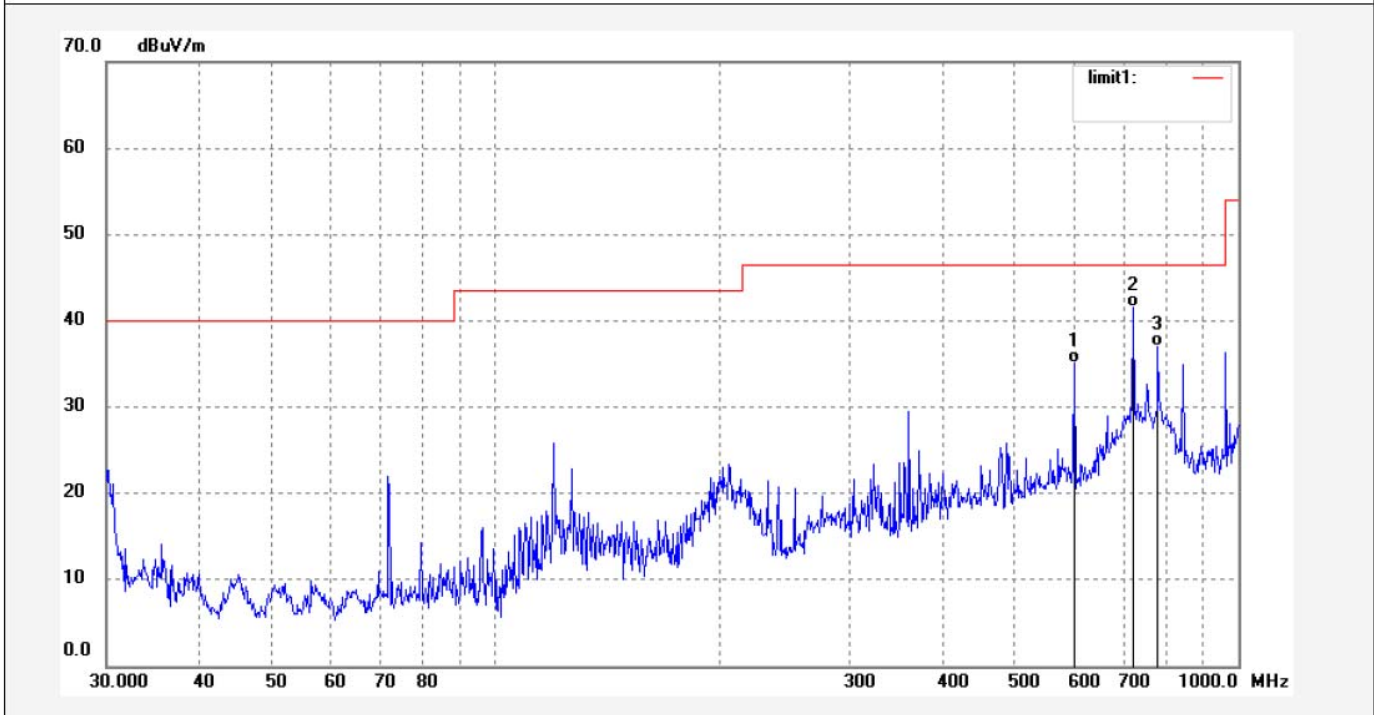
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #2352	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 10/19/40
EUT: Wifi Repeater	Engineer Signature: STAR
Mode: TX Channel 11(802.11n)	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	601.4265	46.74	-11.65	35.09	46.50	-11.41	QP			
2	721.7259	50.93	-9.28	41.65	46.50	-4.85	QP			
3	779.6068	45.20	-8.12	37.08	46.50	-9.42	QP			



**ACCURATE TECHNOLOGY CO., LTD.**

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

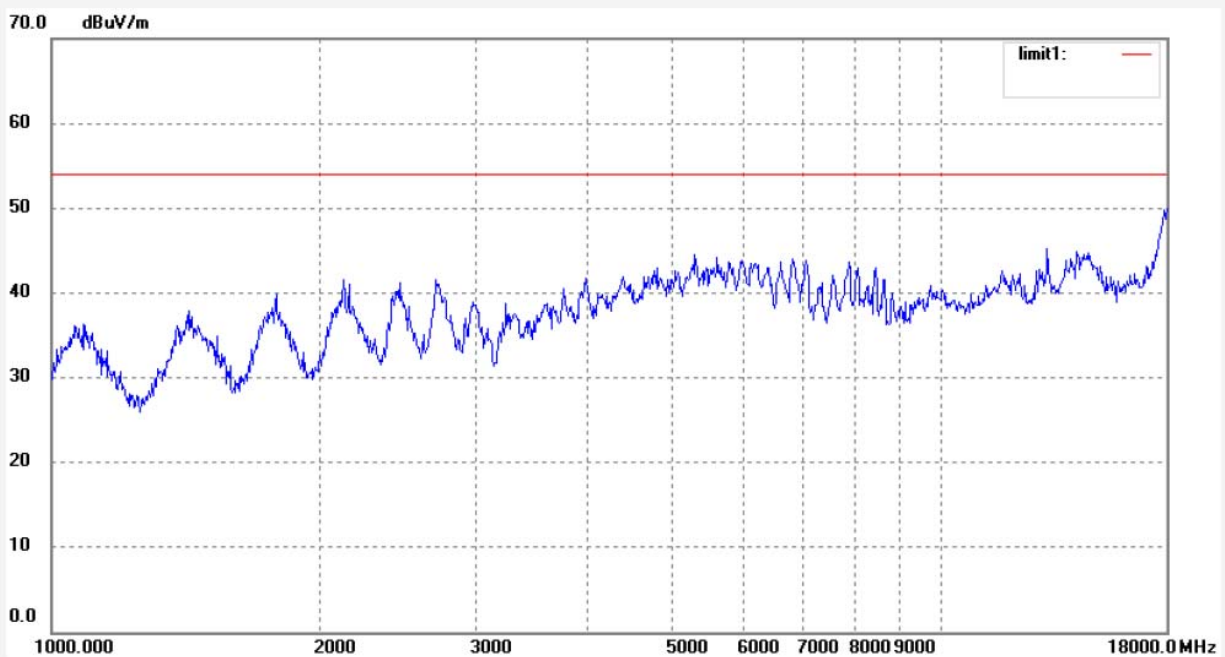
Site: 2# chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: star #2525	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/24/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 11/02/35
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 11(802.11n)	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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.**

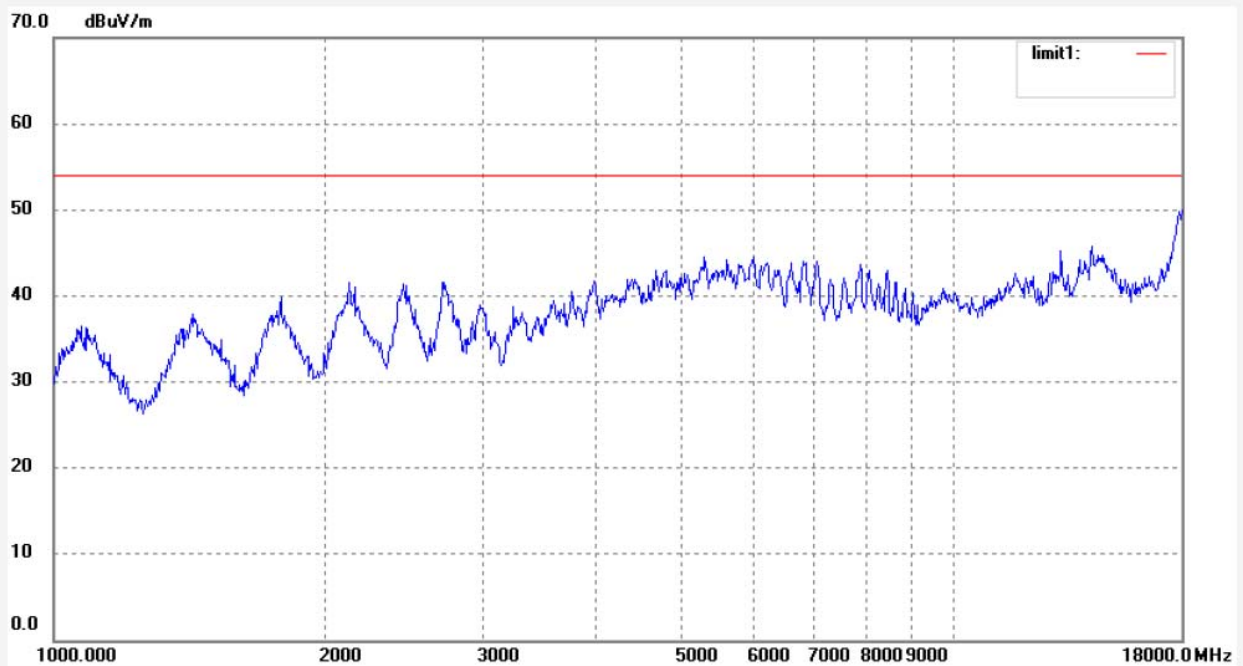
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: star #2526  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 49 %  
EUT: Wifi Repeater  
Mode: TX Channel 11(802.11n)  
Model: VRP150  
Manufacturer: HouTian

Polarization: Vertical  
Power Source: DC 5V  
Date: 13/07/24/  
Time: 11/08/05  
Engineer Signature:  
Distance: 3m

Note: Report No.:ATE20131606



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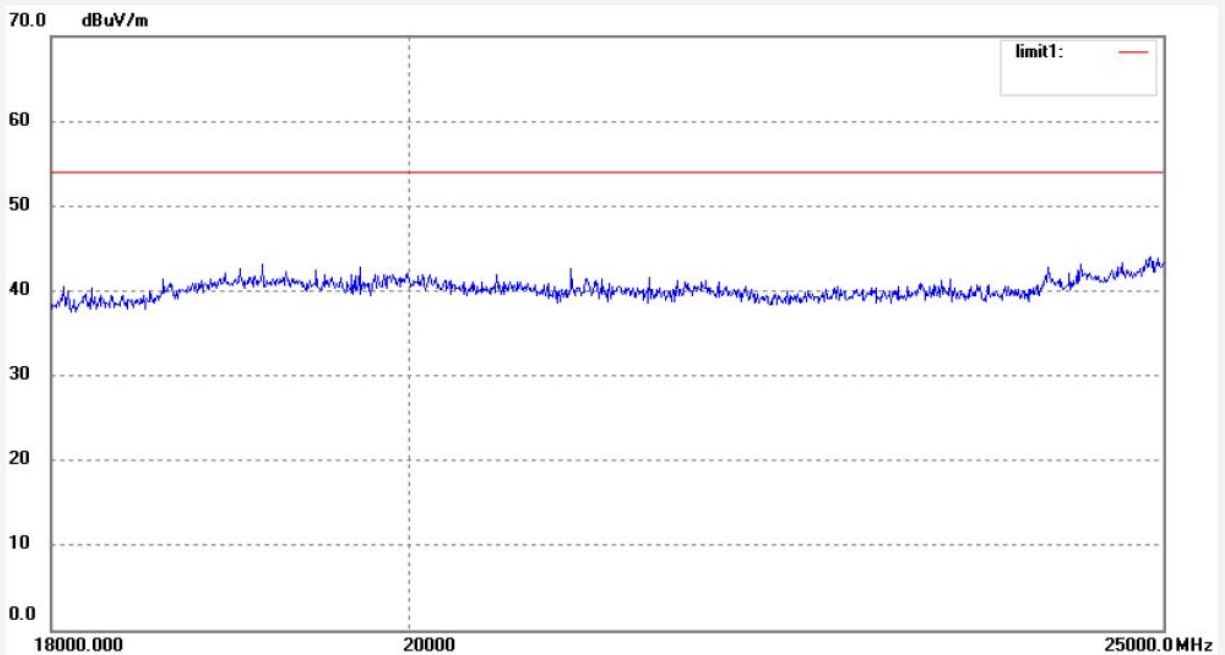
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

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

Job No.: star #2549  
Standard: FCC Class B 3M Radiated  
Test item: Radiation Test  
Temp.( C)/Hum.(%) 23 C / 49 %  
EUT: Wifi Repeater  
Mode: TX Channel 11(802.11n)  
Model: VRP150  
Manufacturer: HouTian

Polarization: Vertical  
Power Source: DC 5V  
Date: 13/07/25/  
Time: 12/39/01  
Engineer Signature:  
Distance: 3m

Note: Report No.:ATE20131606



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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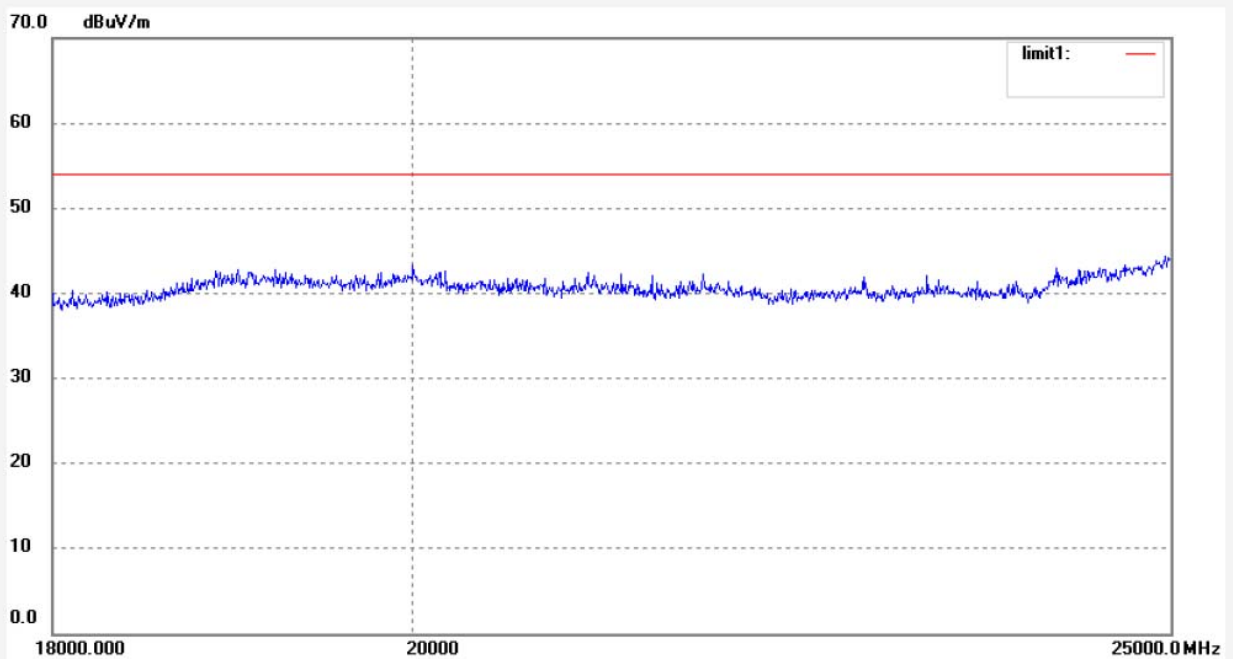
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2550	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 12/41/36
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 11(802.11n)	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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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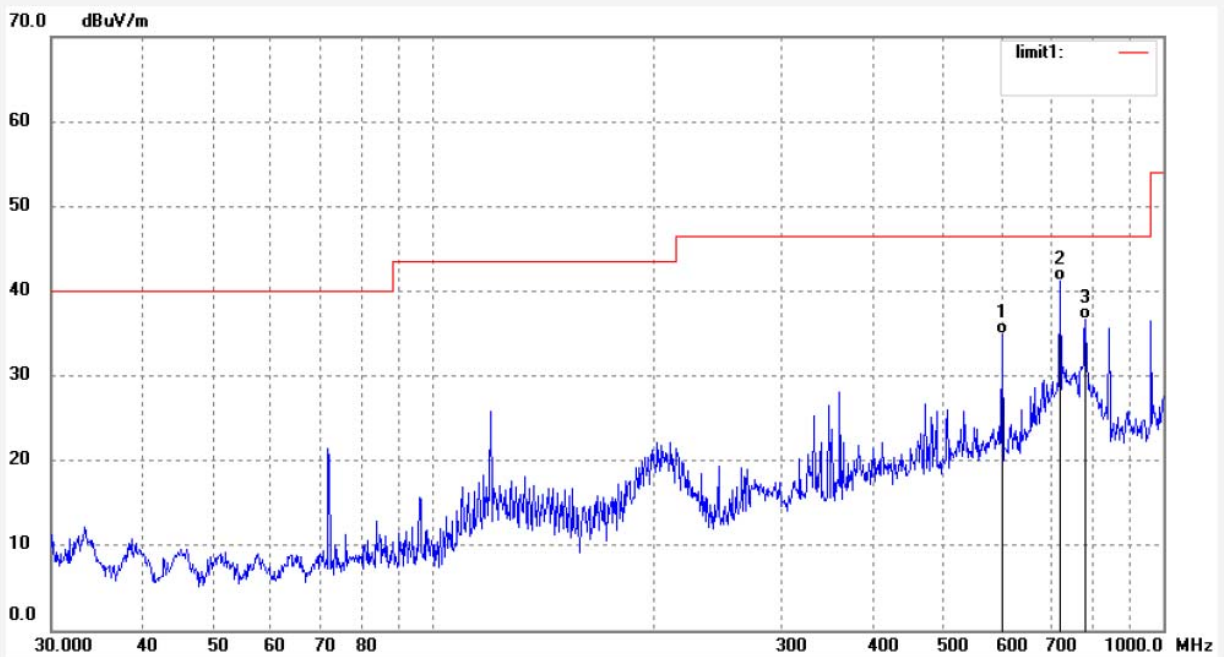
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #2353	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 10/22/38
EUT: Wifi Repeater	Engineer Signature: STAR
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	601.4265	46.48	-11.65	34.83	46.50	-11.67	QP			
2	721.7259	50.42	-9.28	41.14	46.50	-5.36	QP			
3	782.3452	44.73	-8.06	36.67	46.50	-9.83	QP			



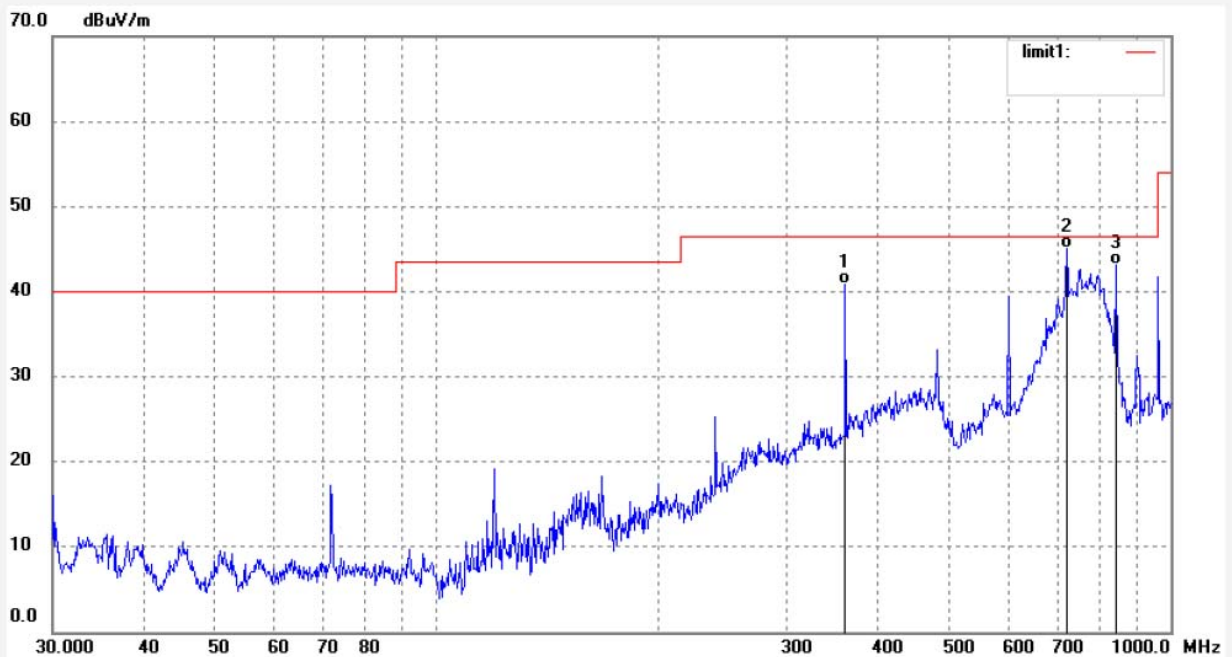
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #2354	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 10/25/04
EUT: Wifi Repeater	Engineer Signature: STAR
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.4476	56.80	-15.92	40.88	46.50	-5.62	QP			
2	721.7259	54.40	-9.28	45.12	46.50	-1.38	QP			
3	842.1296	50.31	-7.10	43.21	46.50	-3.29	QP			



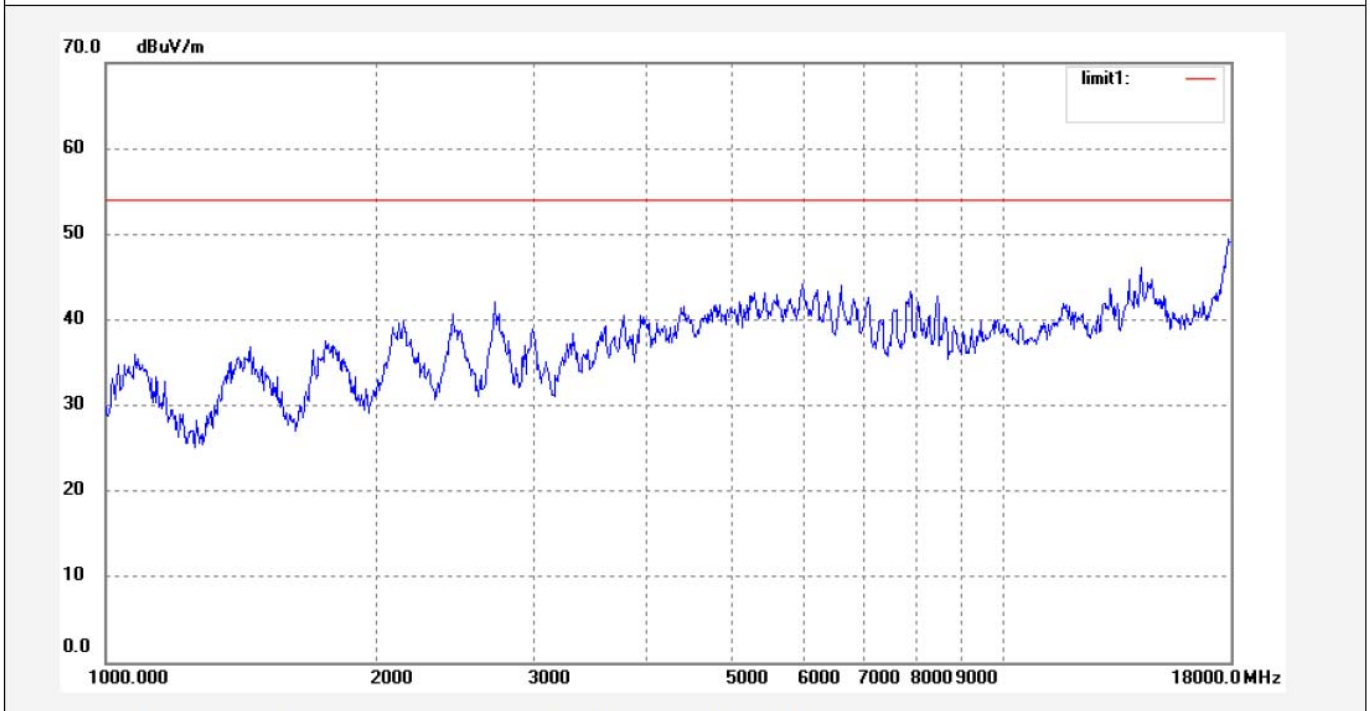
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2527	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/24/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 11/12/26
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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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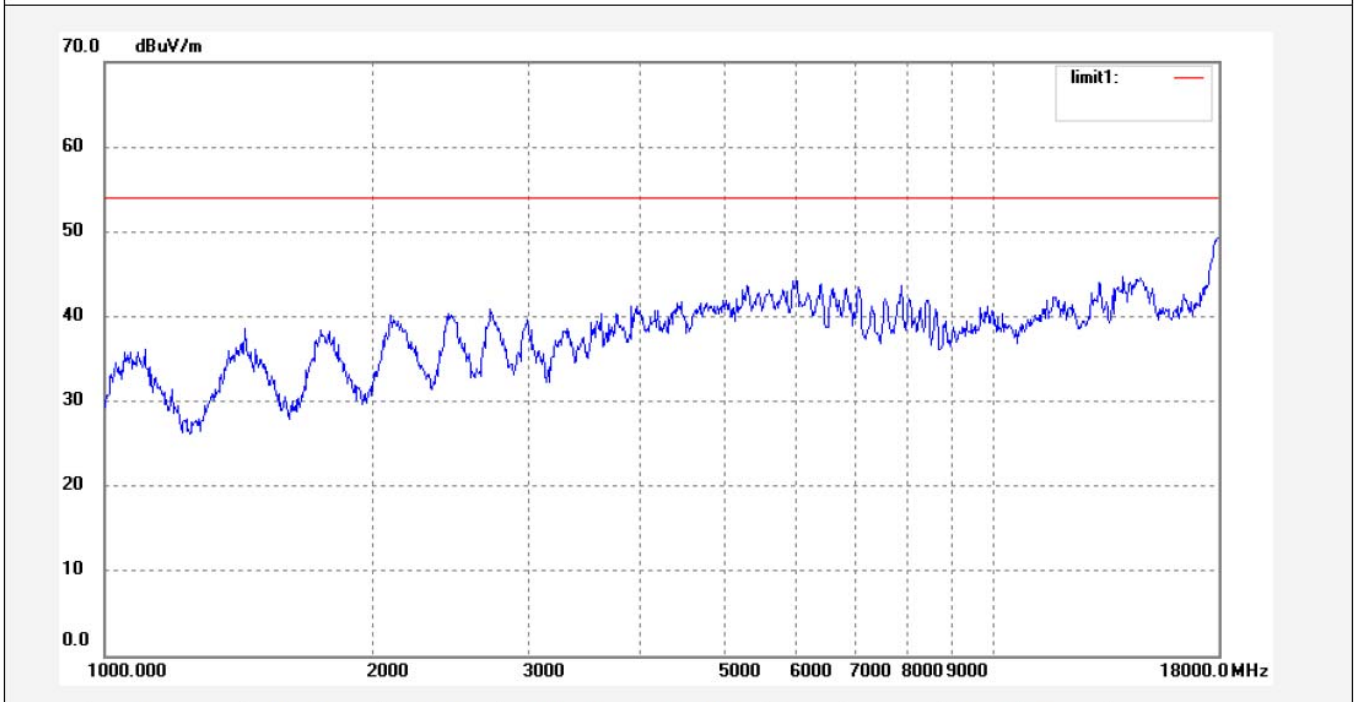
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2528	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/24/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 11/14/22
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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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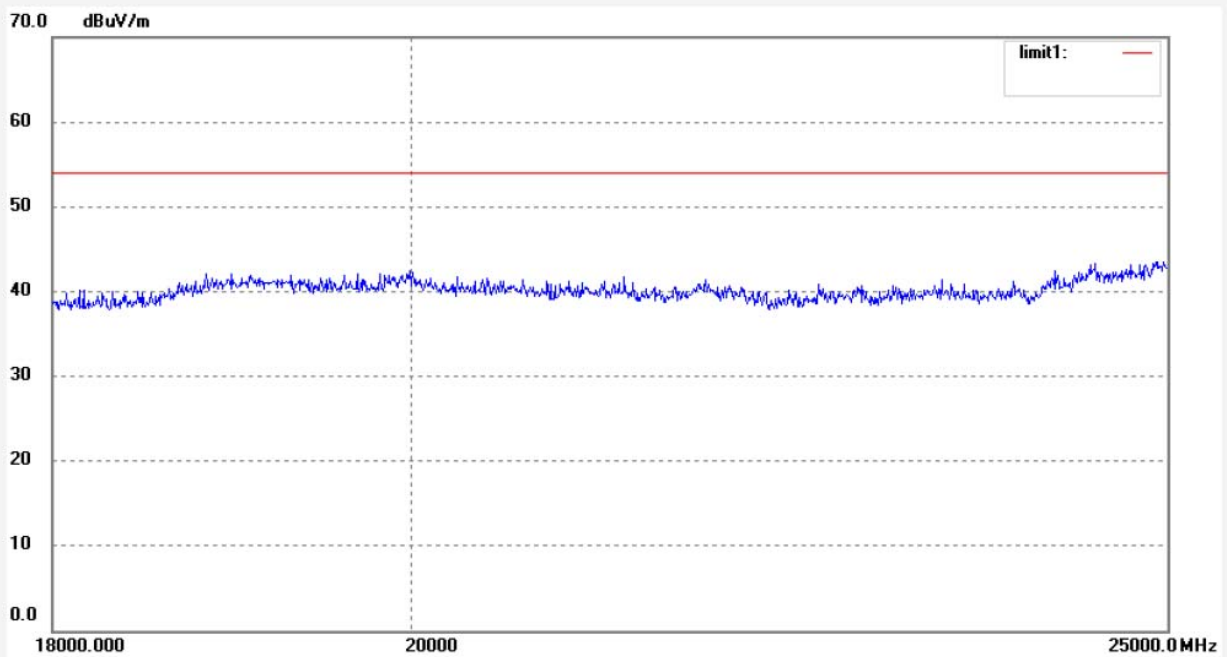
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2551	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 12/45/37
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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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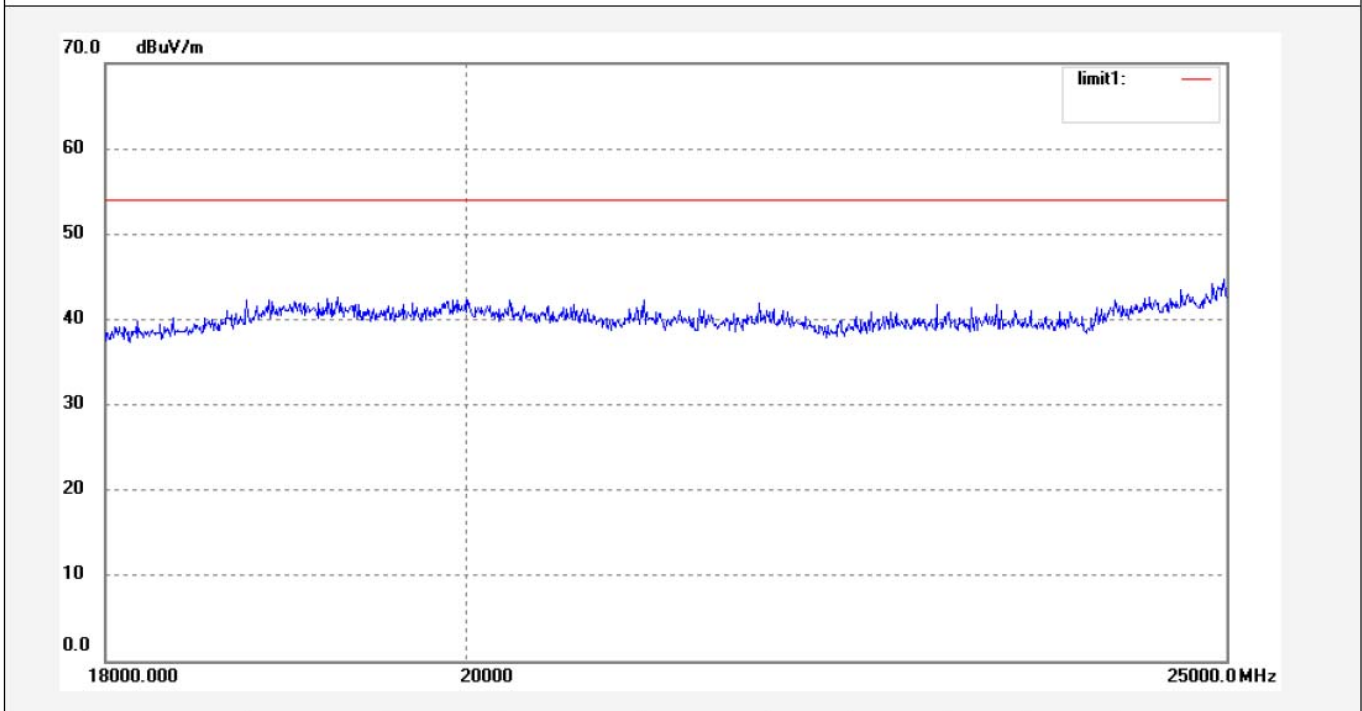
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2552	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 12/48/28
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 3(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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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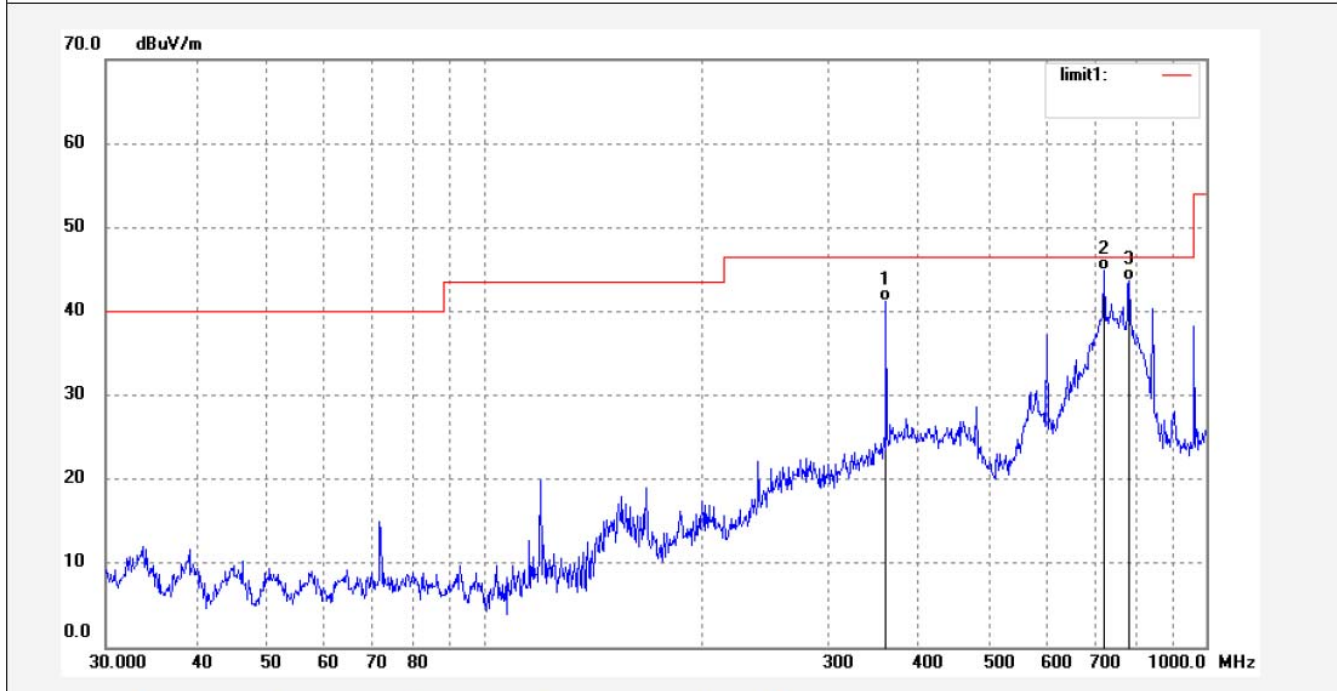
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #2355	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 10/29/30
EUT: Wifi Repeater	Engineer Signature: STAR
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	360.4476	57.12	-15.92	41.20	46.50	-5.30	QP			
2	721.7259	54.16	-9.28	44.88	46.50	-1.62	QP			
3	782.3452	51.65	-8.06	43.59	46.50	-2.91	QP			



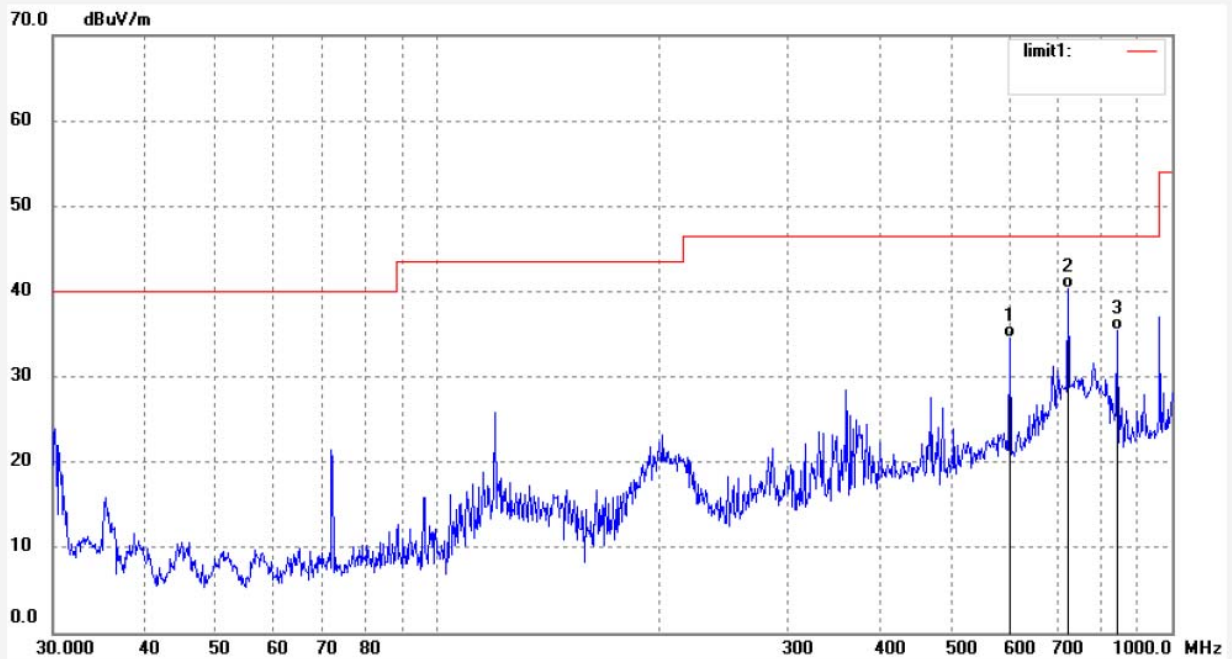
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #2356	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 10/32/17
EUT: Wifi Repeater	Engineer Signature: STAR
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	601.4265	46.24	-11.65	34.59	46.50	-11.91	QP			
2	721.7259	49.63	-9.28	40.35	46.50	-6.15	QP			
3	842.1295	42.56	-7.10	35.46	46.50	-11.04	QP			



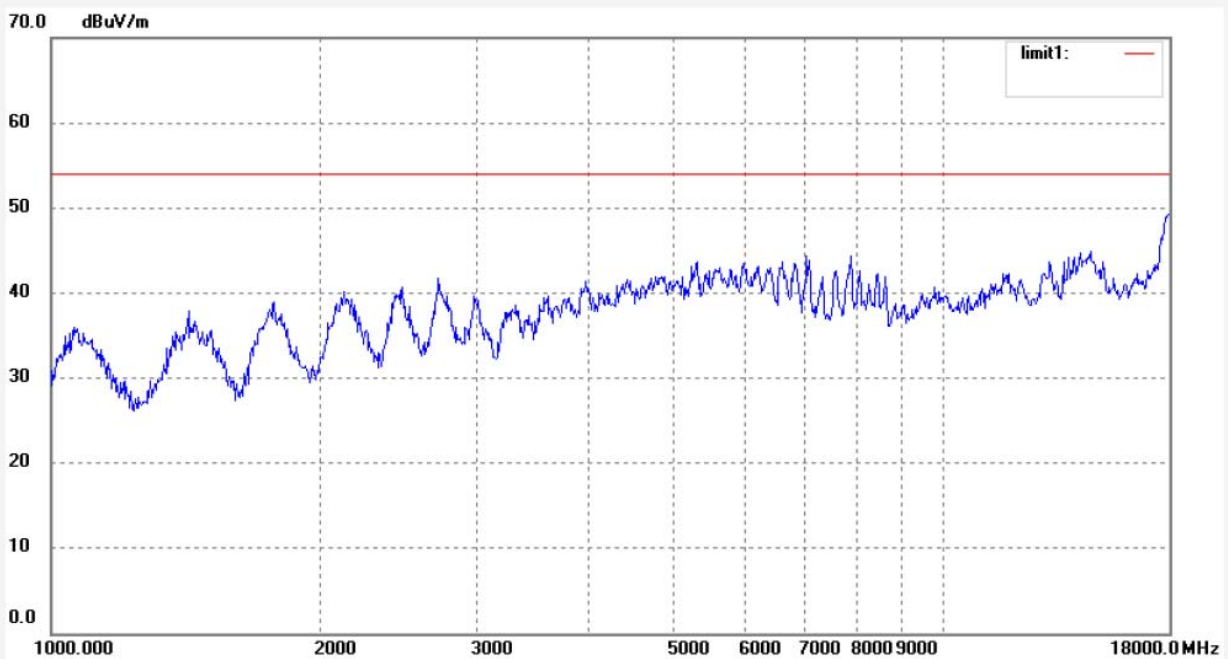
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2529	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/24/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 11/17/10
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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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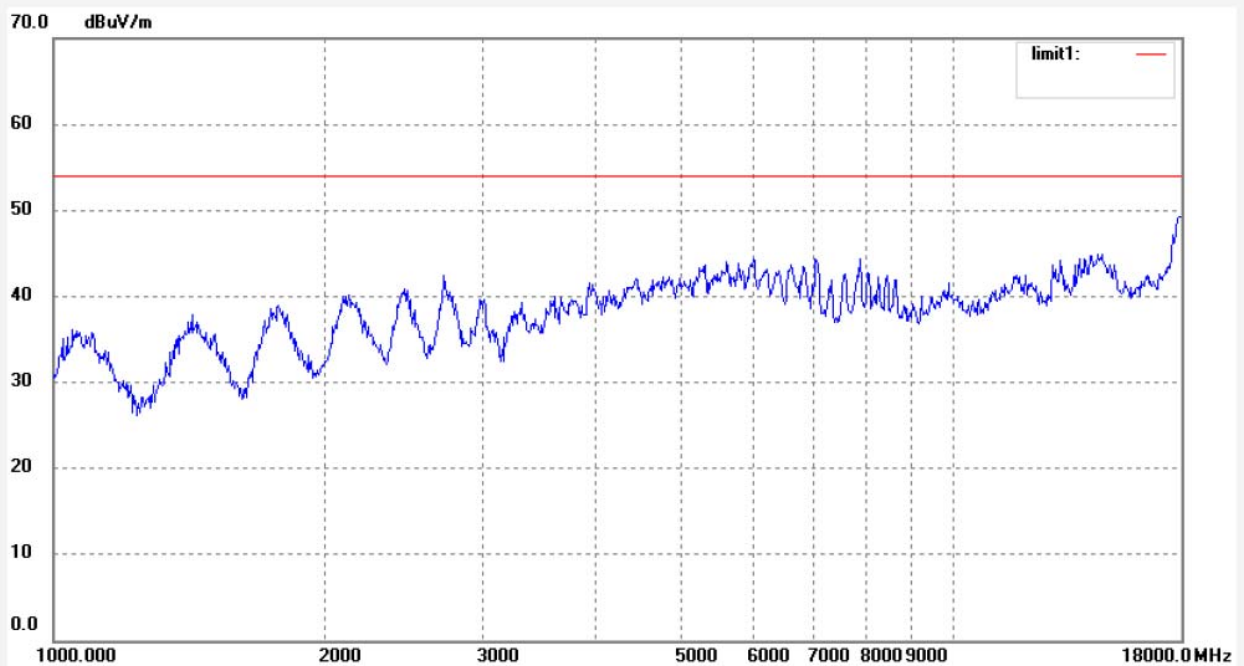
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2530	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/24/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 11/20/04
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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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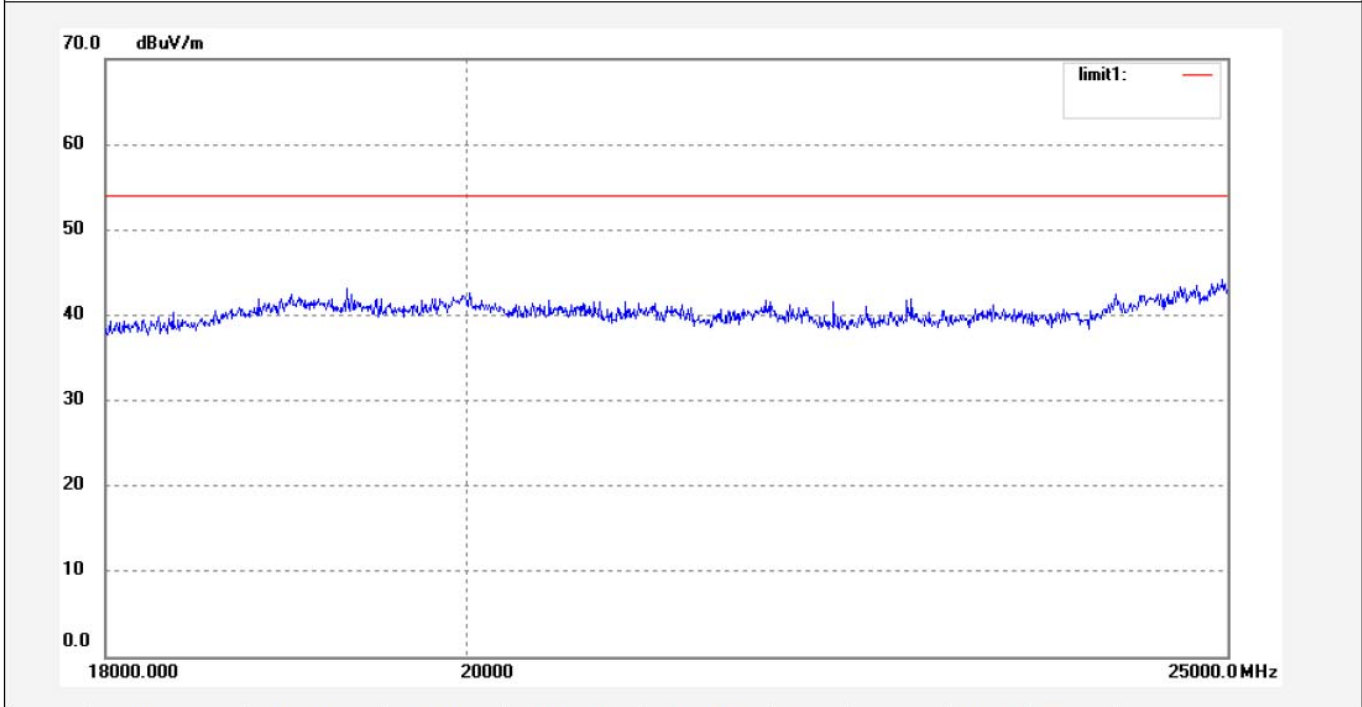
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2553	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 12/51/34
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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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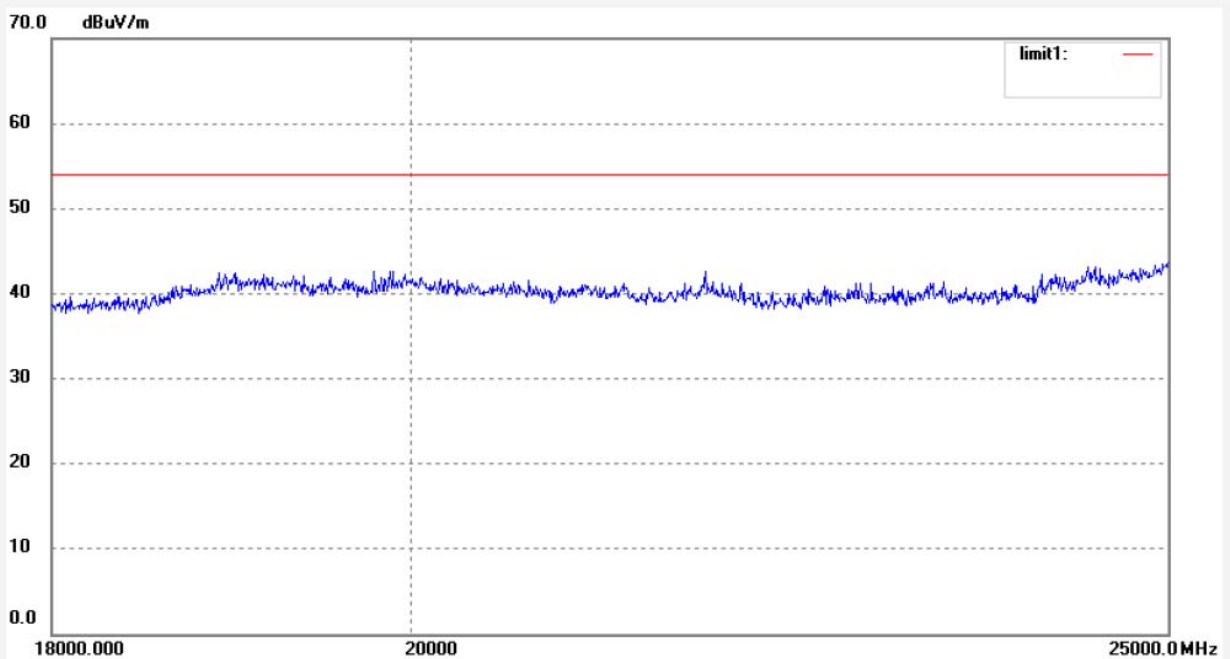
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2554	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 12/55/36
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 6(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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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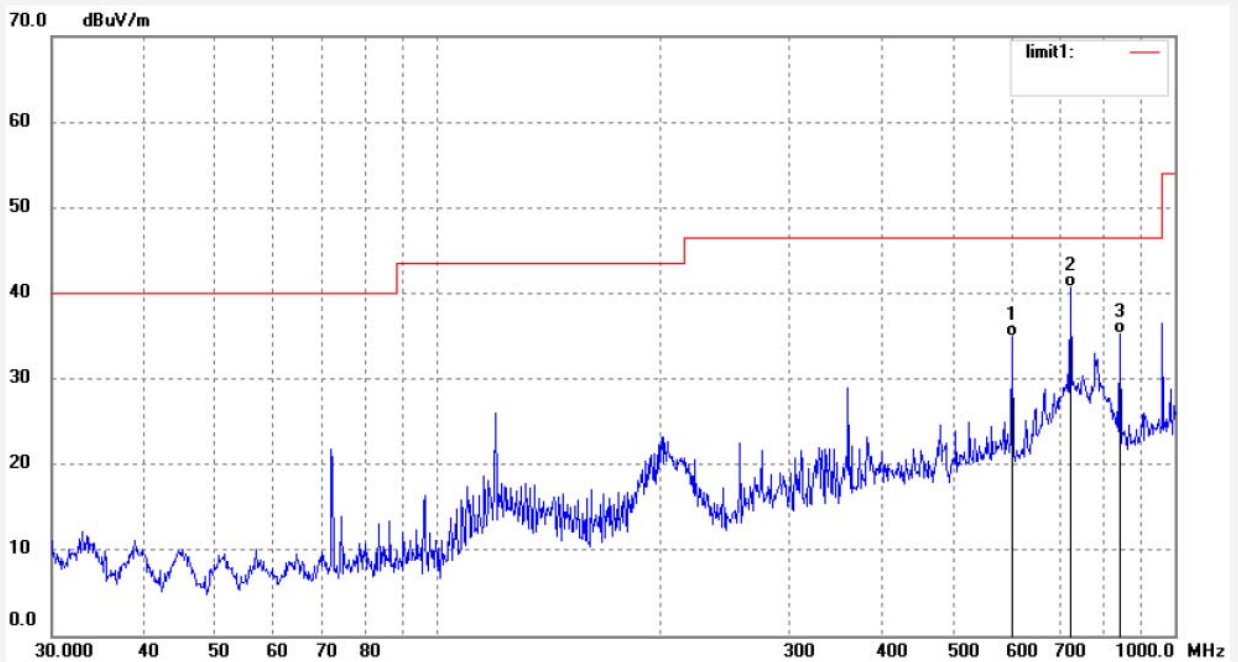
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #2357	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 10/35/59
EUT: Wifi Repeater	Engineer Signature: STAR
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	601.4265	46.53	-11.65	34.88	46.50	-11.62	QP			
2	721.7259	49.95	-9.28	40.67	46.50	-5.83	QP			
3	842.1296	42.38	-7.10	35.28	46.50	-11.22	QP			





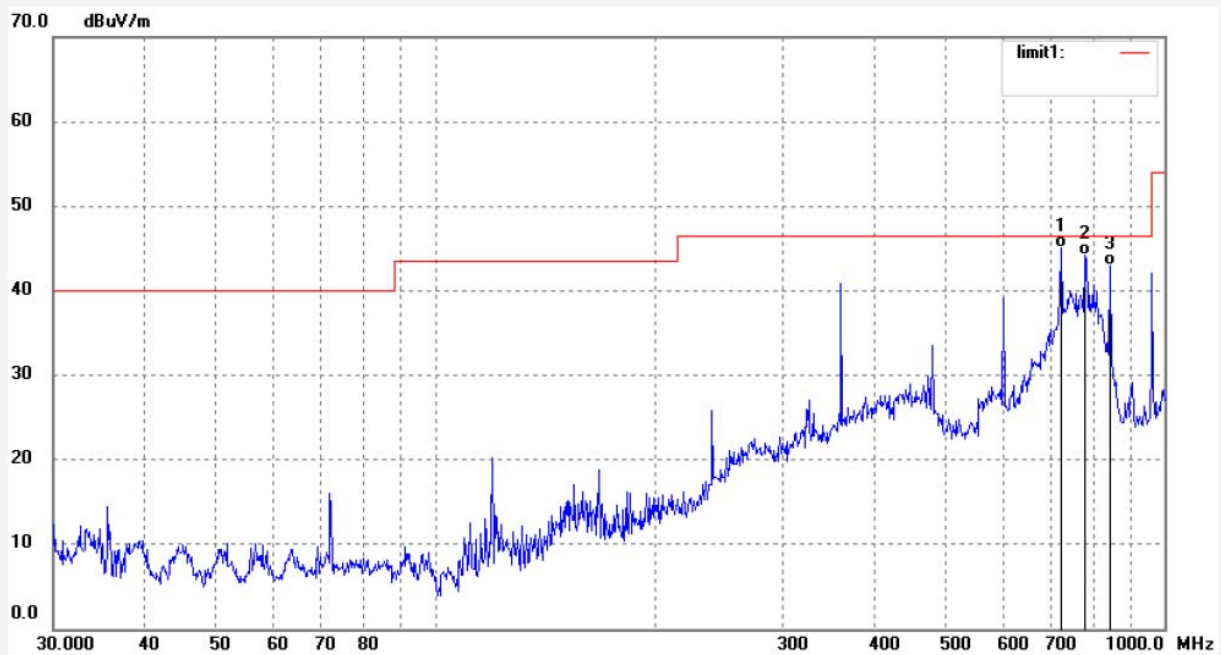
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 1# Chamber  
Tel:+86-0755-26503290  
Fax:+86-0755-26503396

Job No.: star #2358	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 25 C / 55 %	Time: 10/38/38
EUT: Wifi Repeater	Engineer Signature: STAR
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	721.7259	54.41	-9.28	45.13	46.50	-1.37	QP			
2	779.6068	52.26	-8.12	44.14	46.50	-2.36	QP			
3	842.1296	50.08	-7.10	42.98	46.50	-3.52	QP			



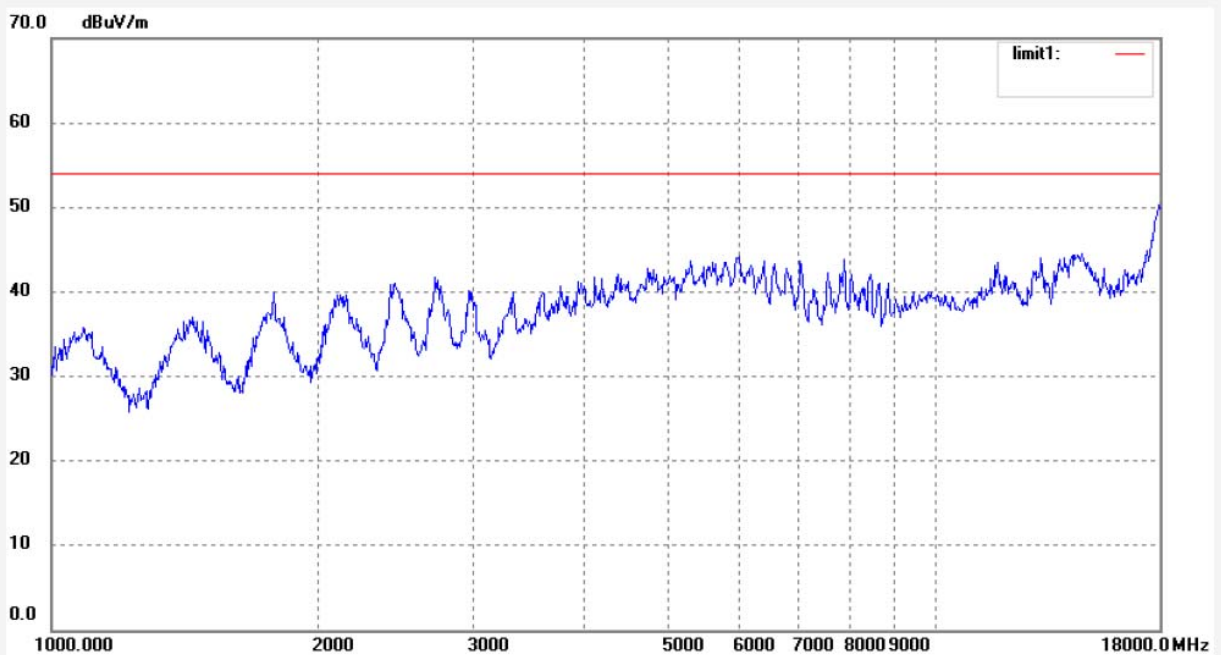
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2531	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/24/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 11/23/53
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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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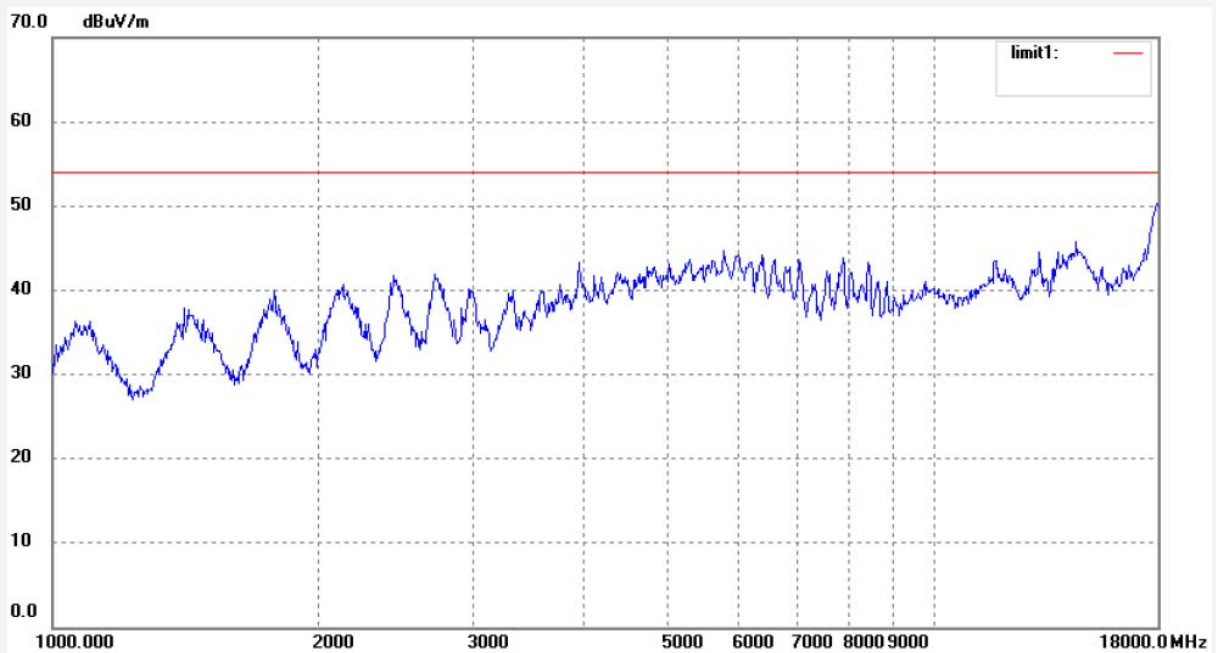
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2532	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/24/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 11/28/11
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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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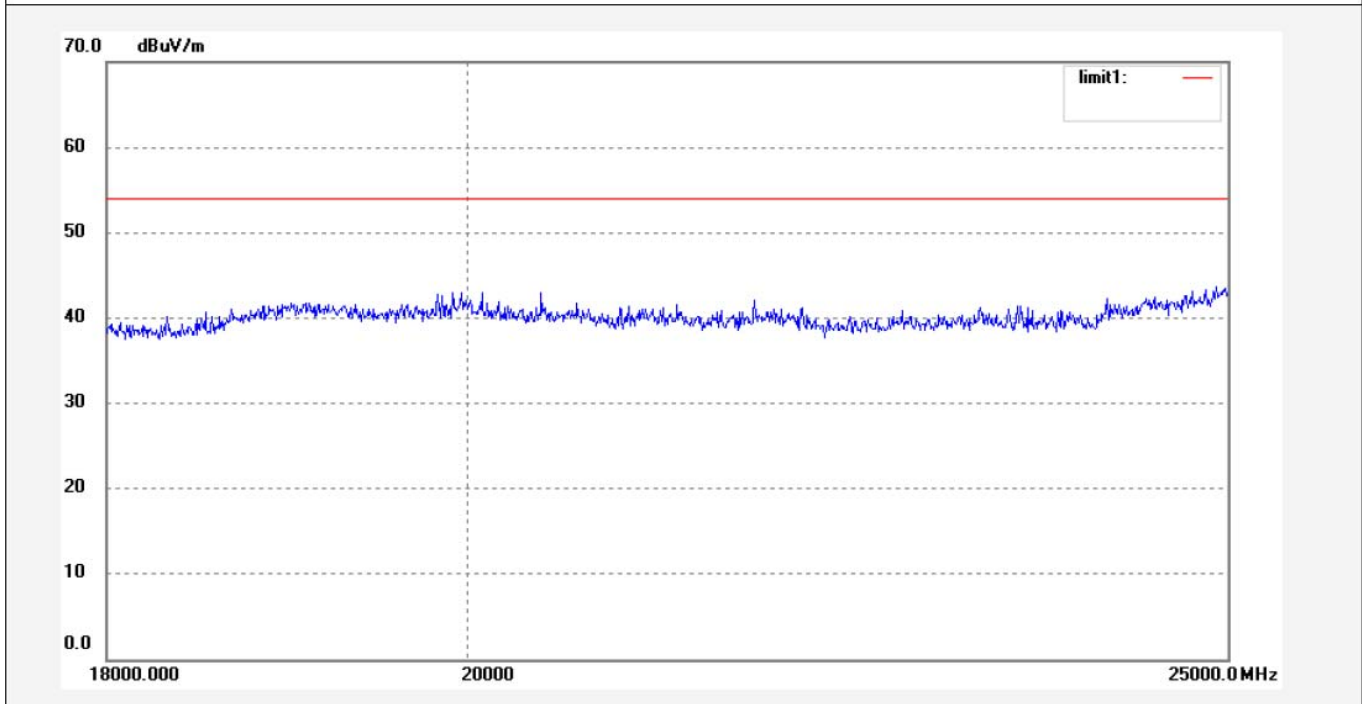
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2555	Polarization: Horizontal
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 12/58/19
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

Note: Report No.:ATE20131606



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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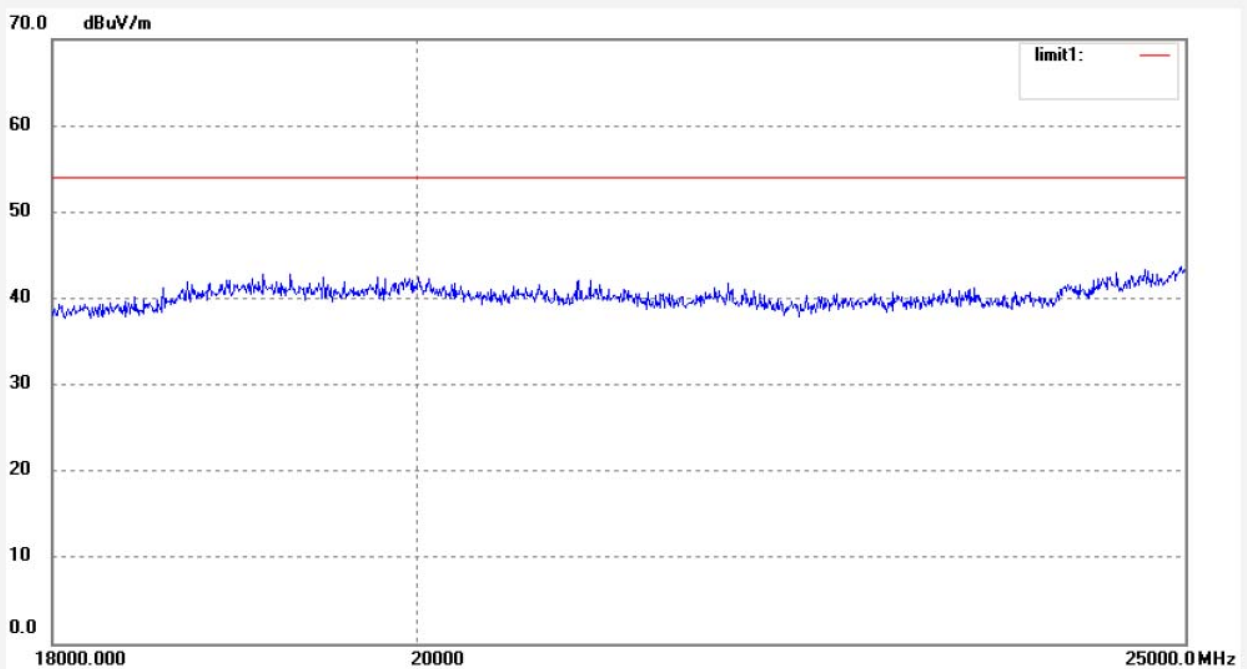
**ACCURATE TECHNOLOGY CO., LTD.**

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 #2556	Polarization: Vertical
Standard: FCC Class B 3M Radiated	Power Source: DC 5V
Test item: Radiation Test	Date: 13/07/25/
Temp.( C)/Hum.(%) 23 C / 49 %	Time: 13/02/20
EUT: Wifi Repeater	Engineer Signature:
Mode: TX Channel 9(802.11n)40MHz	Distance: 3m
Model: VRP150	
Manufacturer: HouTian	

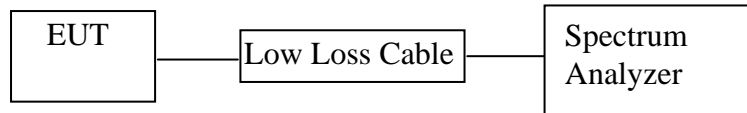
Note: Report No.:ATE20131606



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



(EUT: Wifi Repeater)

### 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 Repeater (EUT)

Model Number	:	VRP150
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).

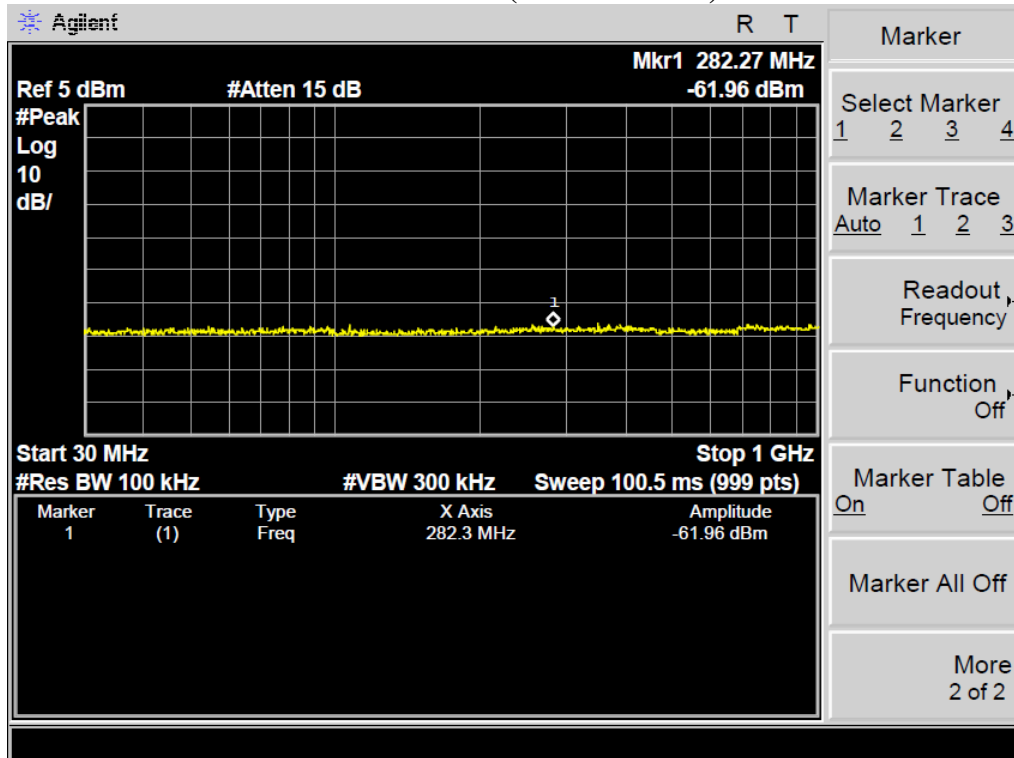
10.5.4. The Conducted Spurious Emission was measured and recorded.

## 10.6. Test Result

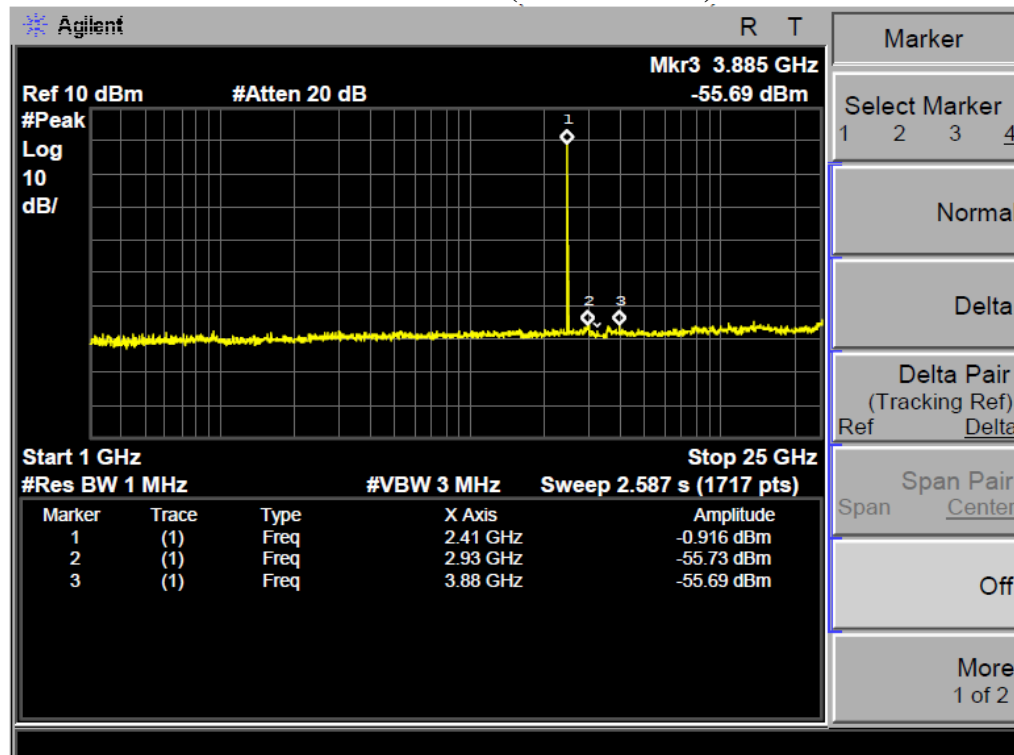
**Pass.**

The spectrum analyzer plots are attached as below.

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

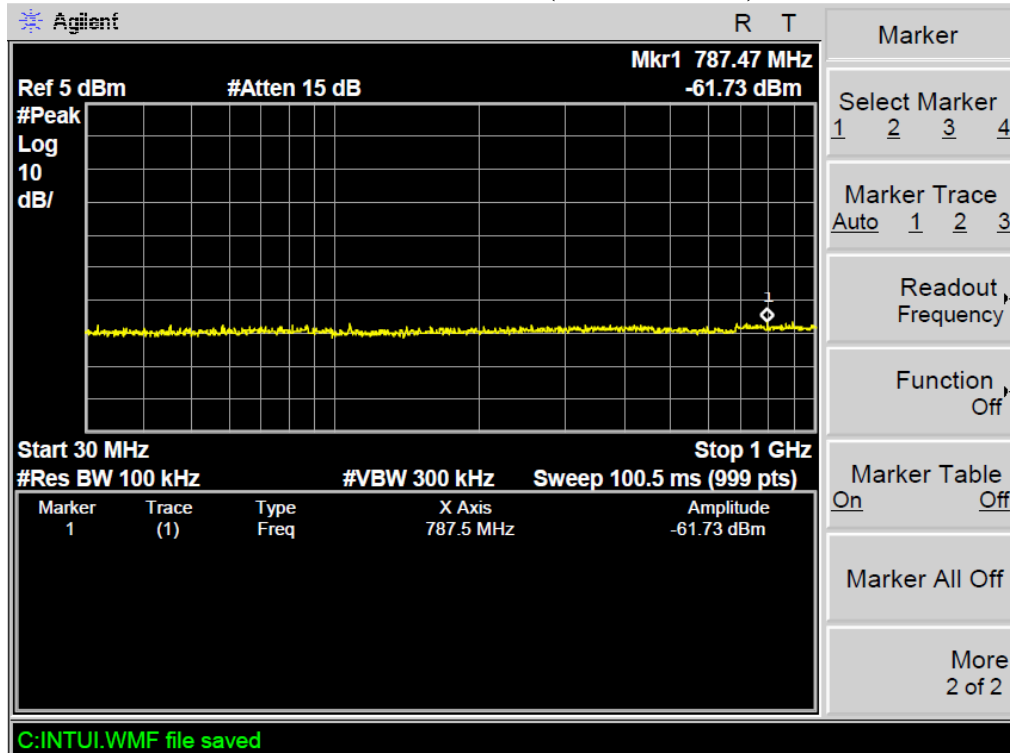


**TX 802.11b Channel Low 2412MHz (1GHz-25GHz)**

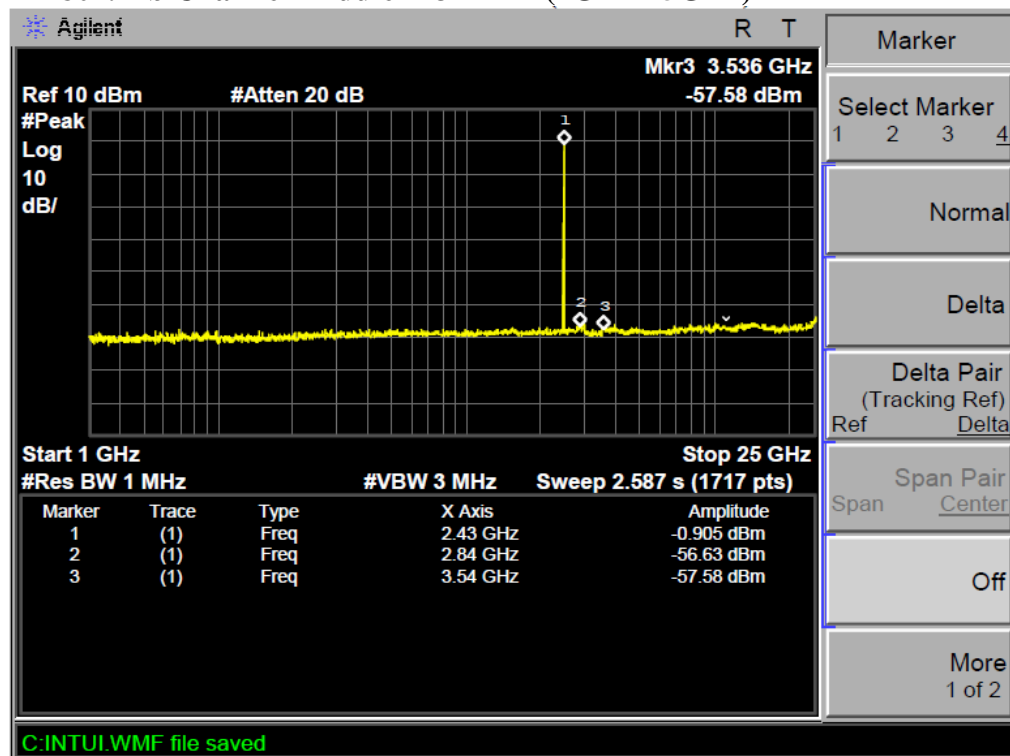




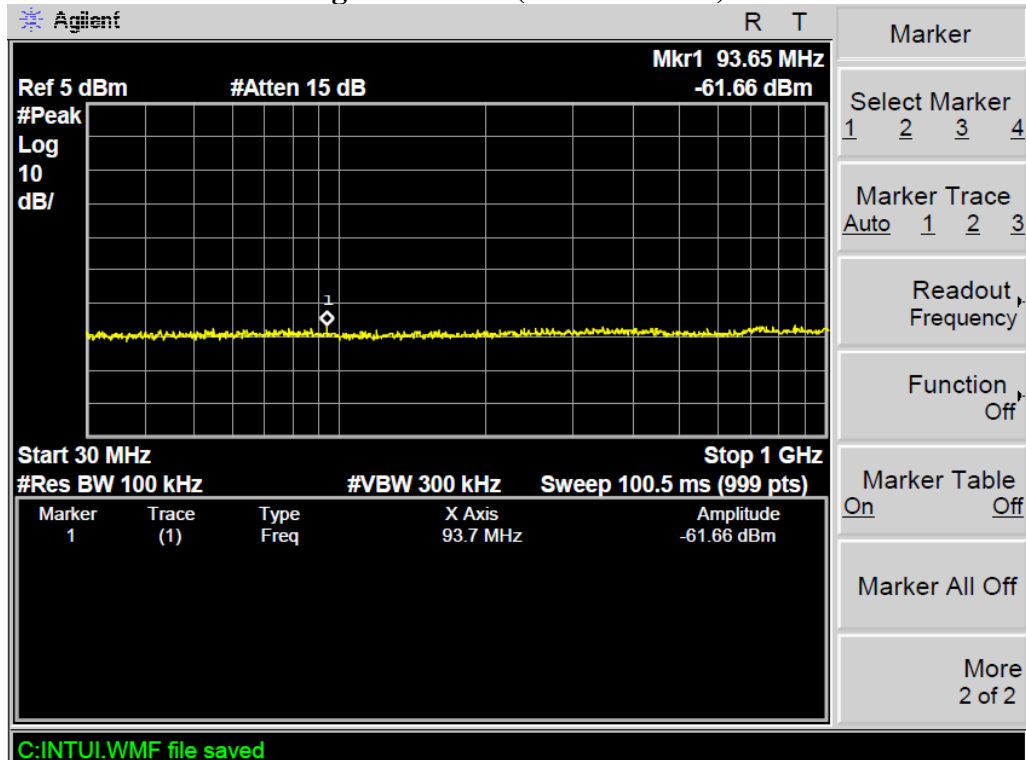
### TX 802.11b Channel Middle 2437MHz (30MHz-1GHz)



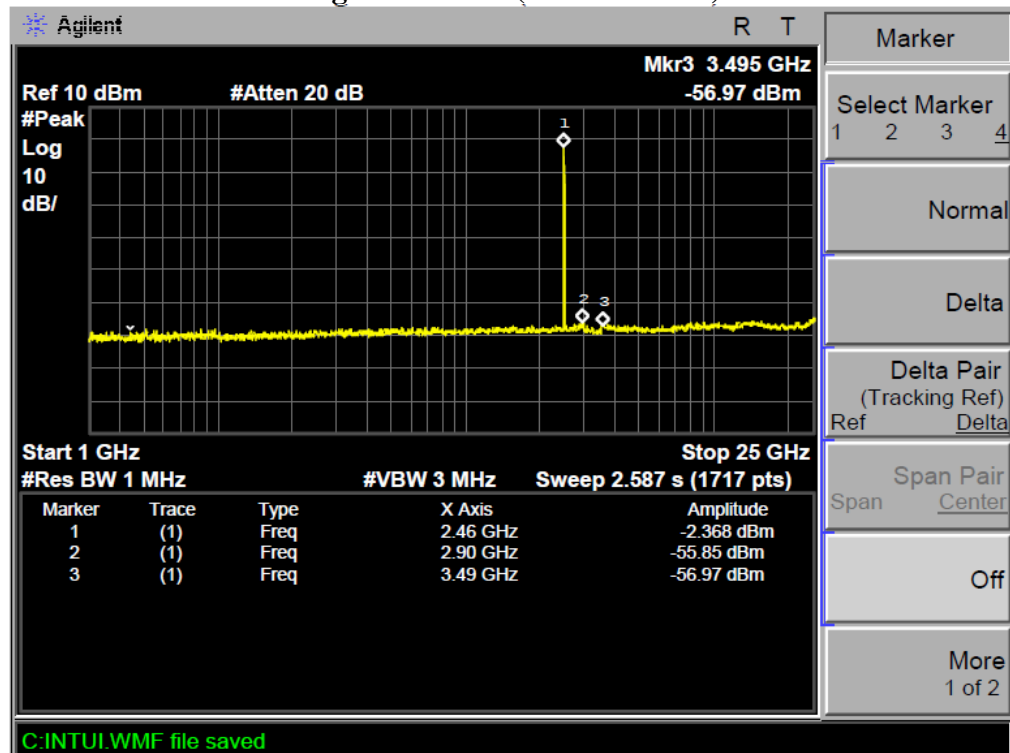
### TX 802.11b Channel Middle 2437MHz (1GHz-25GHz)



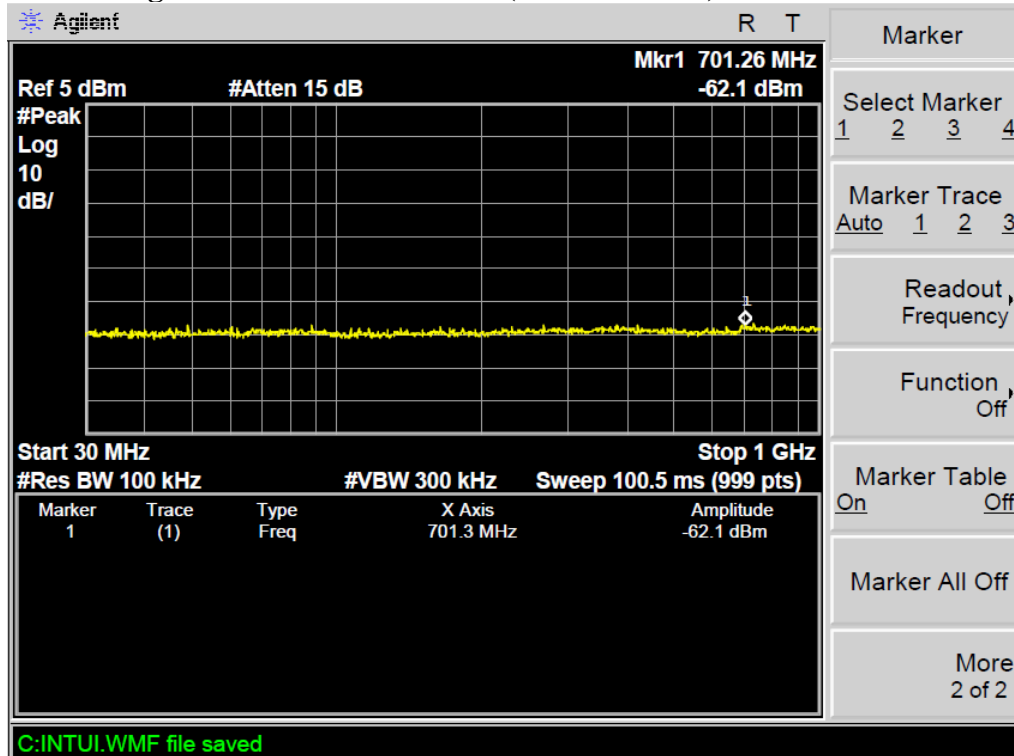
### TX 802.11b Channel High 2462MHz (30MHz-1GHz)



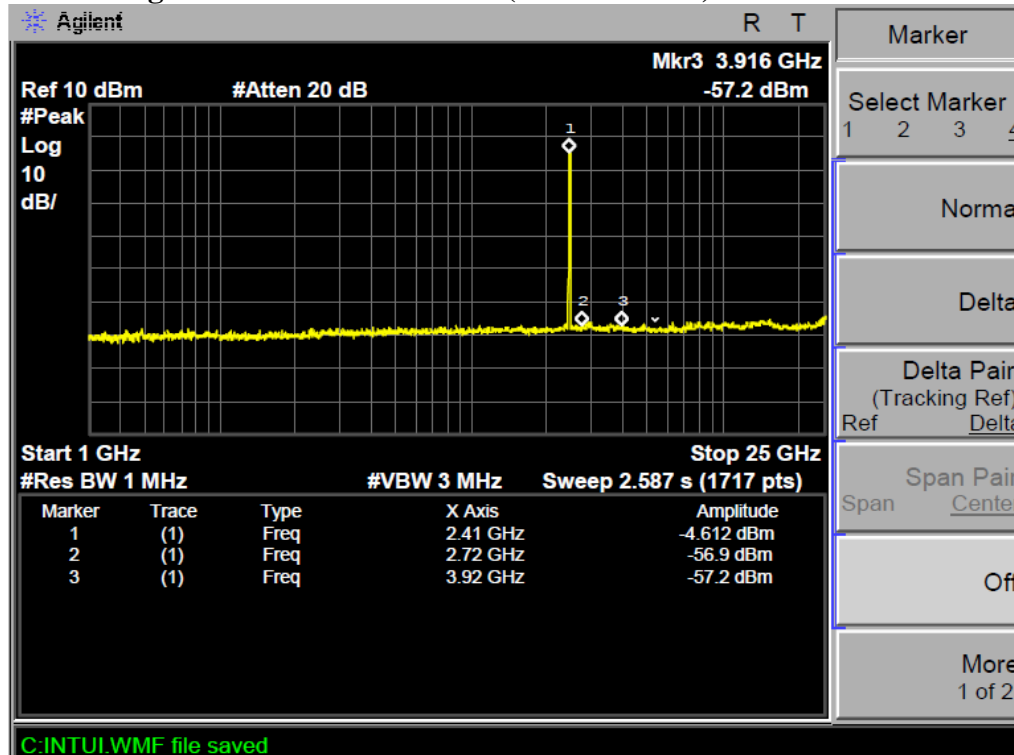
### TX 802.11b Channel High 2462MHz (1GHz-25GHz)



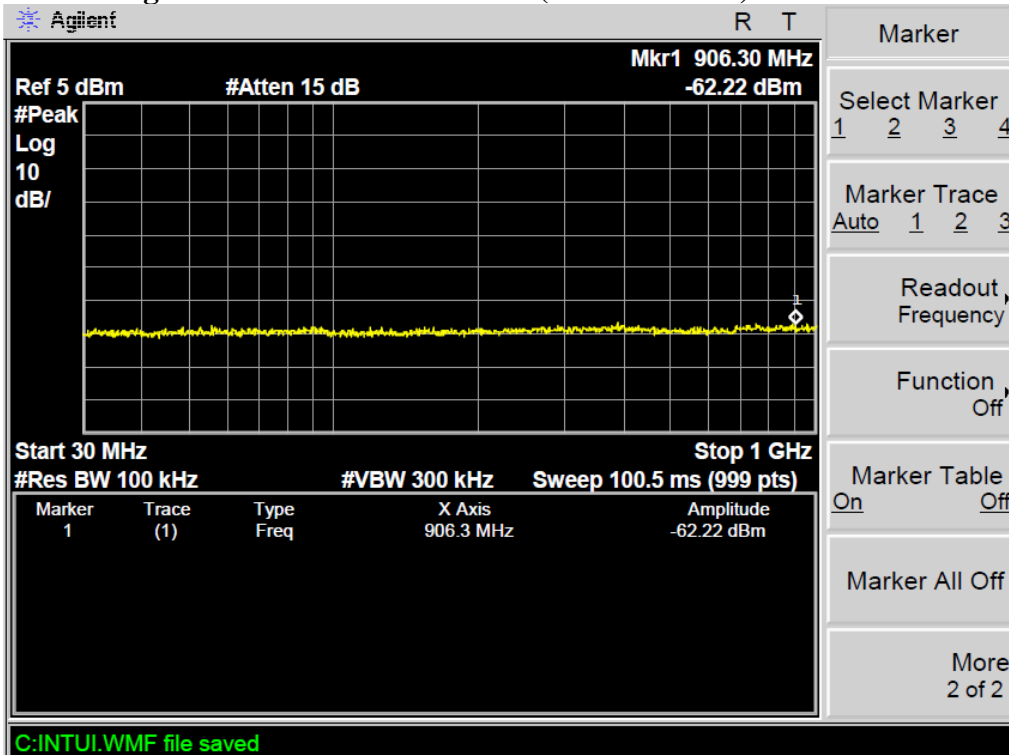
### TX 802.11g Channel Low 2412MHz (30MHz-1GHz)



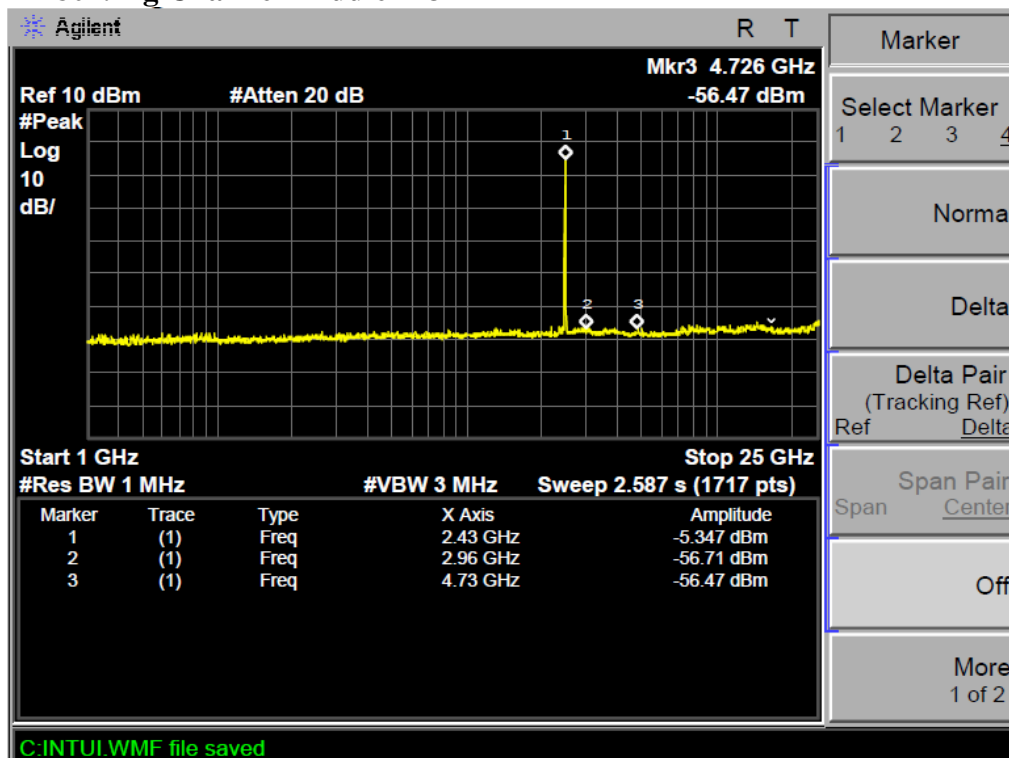
### TX 802.11g Channel Low 2412MHz (1GHz-25GHz)



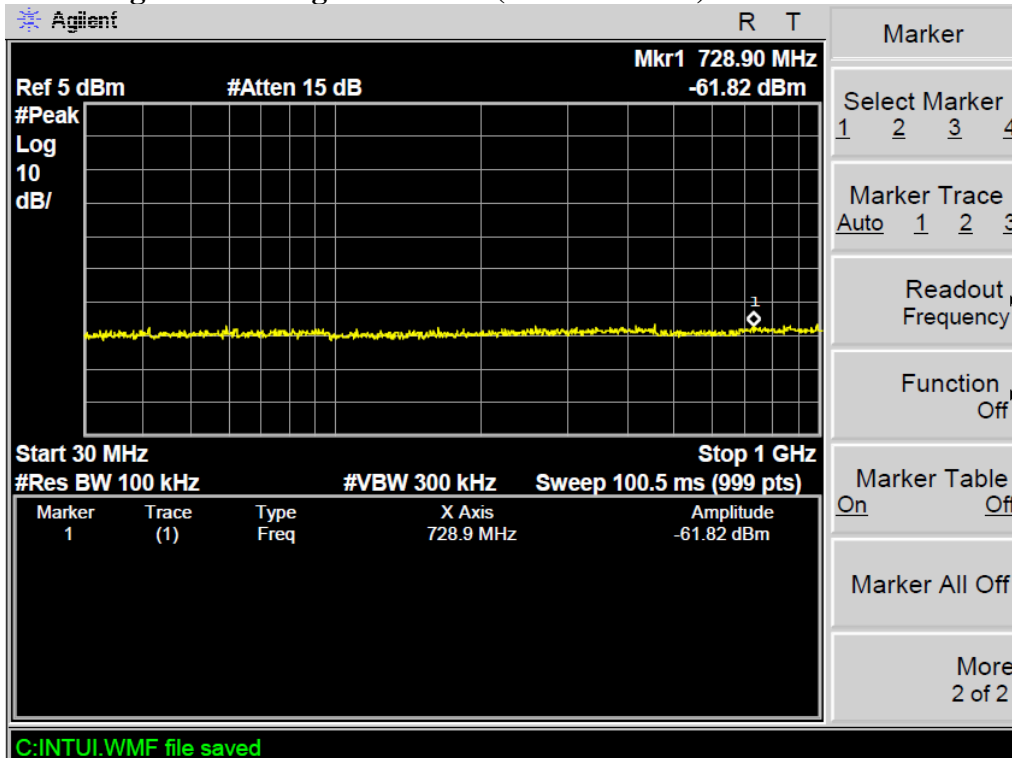
### TX 802.11g Channel Middle 2437MHz (30MHz-1GHz)



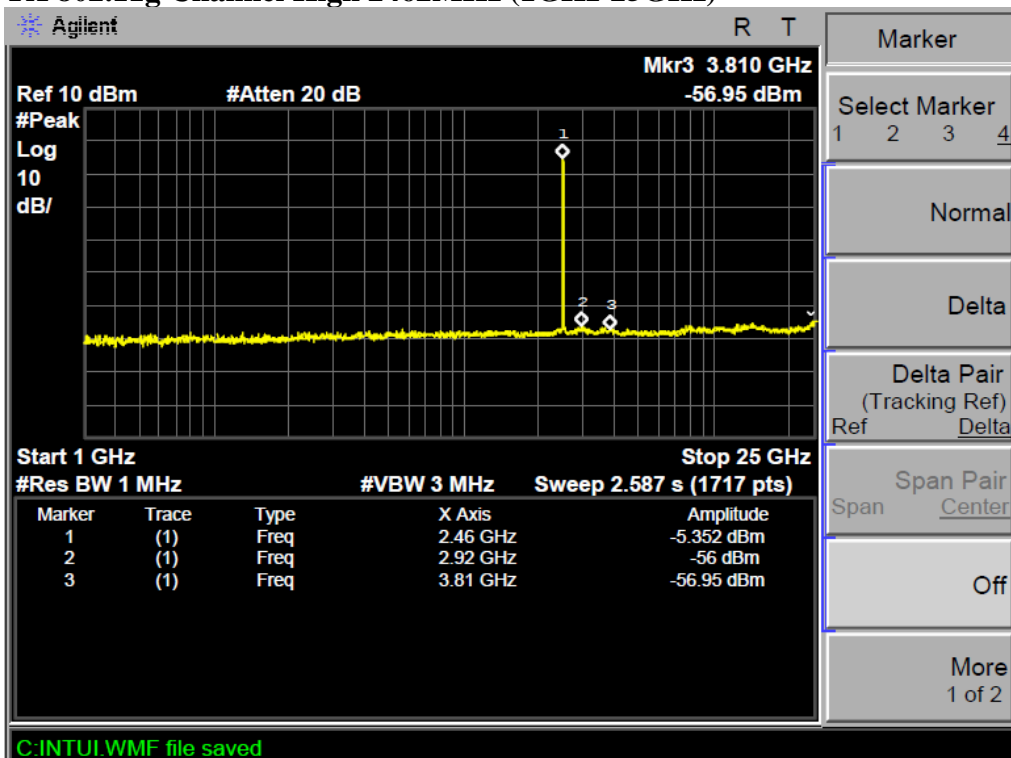
### TX 802.11g Channel Middle 2437MHz



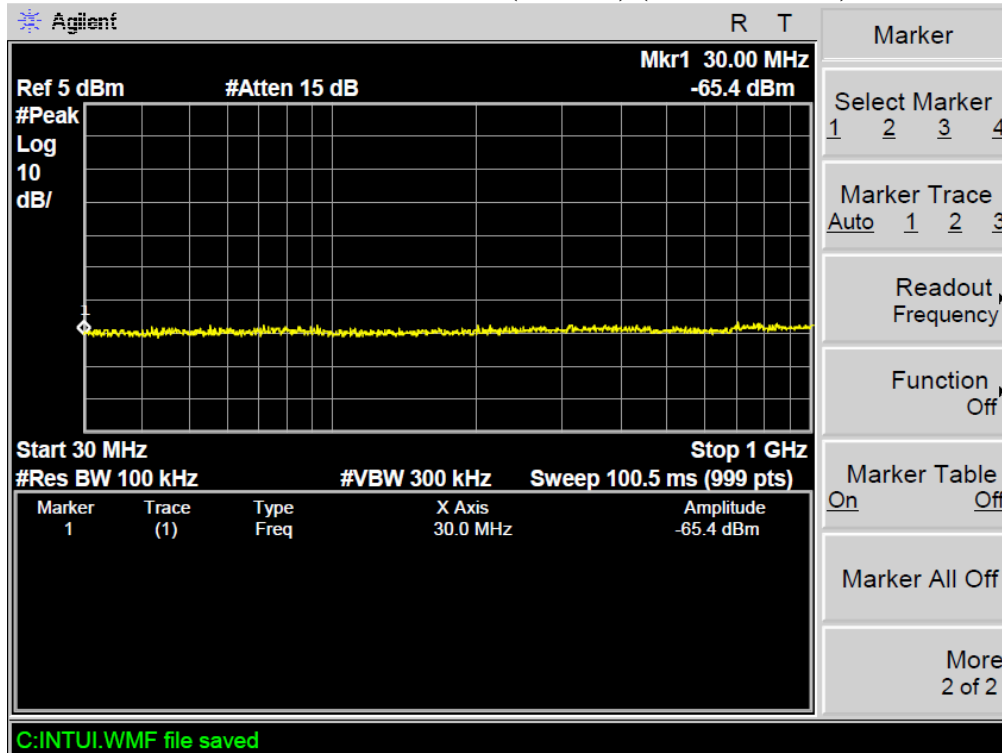
**TX 802.11g Channel High 2462MHz (30MHz-1GHz)**



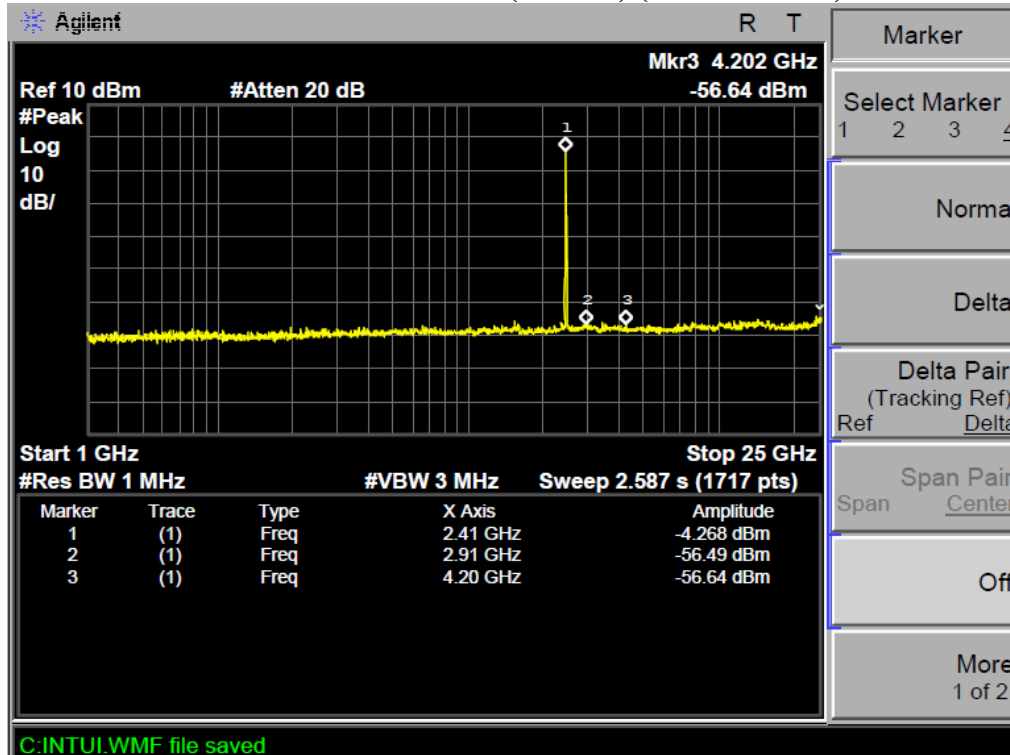
**TX 802.11g Channel High 2462MHz (1GHz-25GHz)**



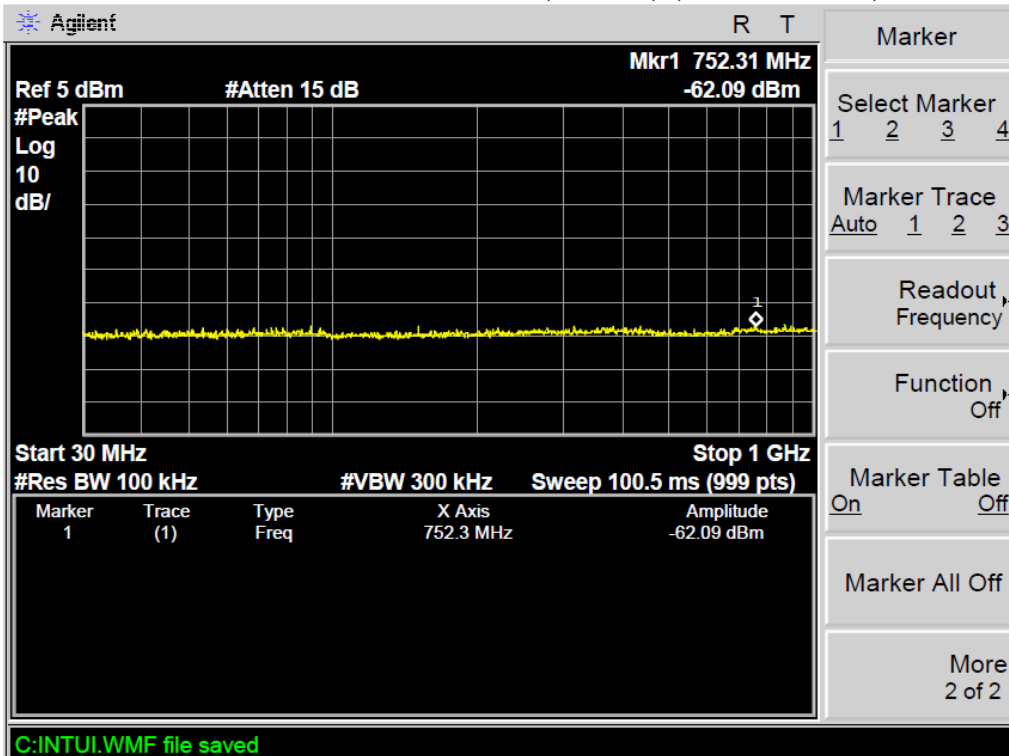
**TX 802.11n Channel Low 2412MHz (20MHz) (30MHz-1GHz)**



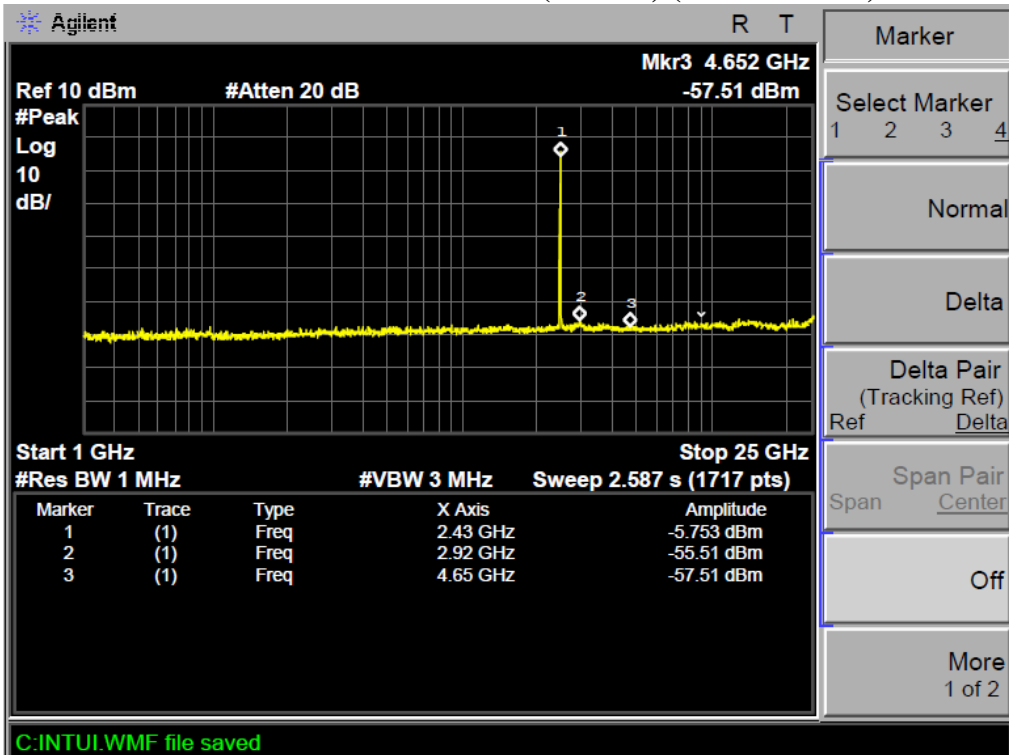
**TX 802.11n Channel Low 2412MHz (20MHz) (1GHz-25GHz)**



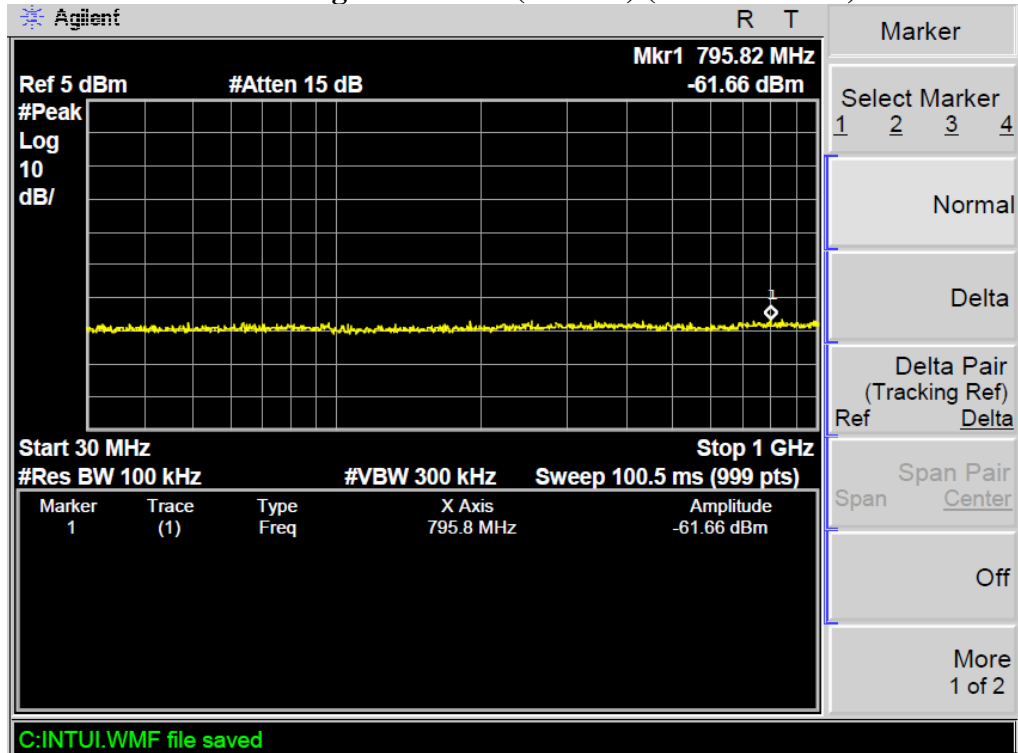
**TX 802.11n Channel Middle 2437MHz (20MHz) (30MHz-1GHz)**



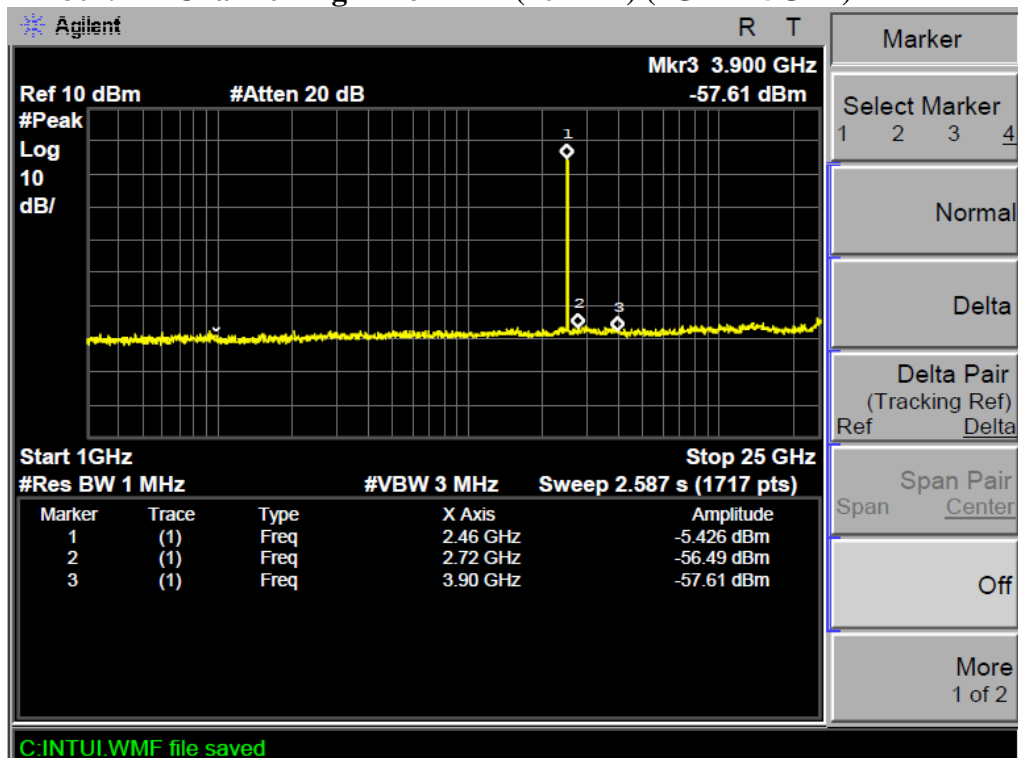
**TX 802.11n Channel Middle 2437MHz (20MHz) (1GHz-25GHz)**



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

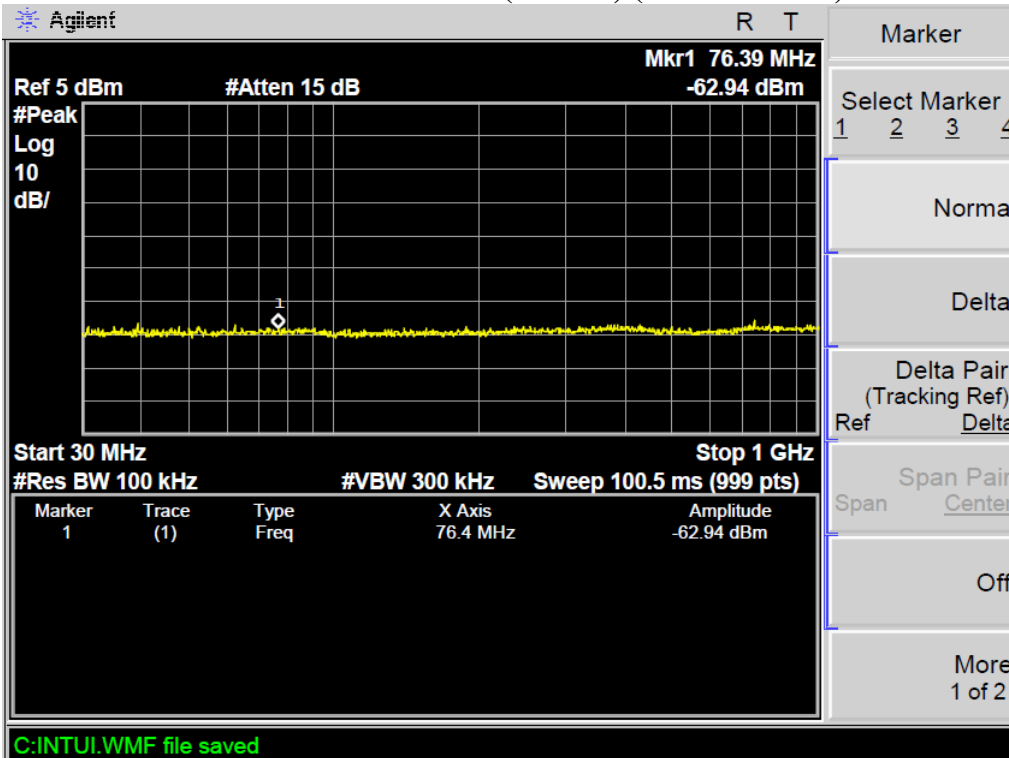


**TX 802.11n Channel High 2462MHz (20MHz) (1GHz-25GHz)**

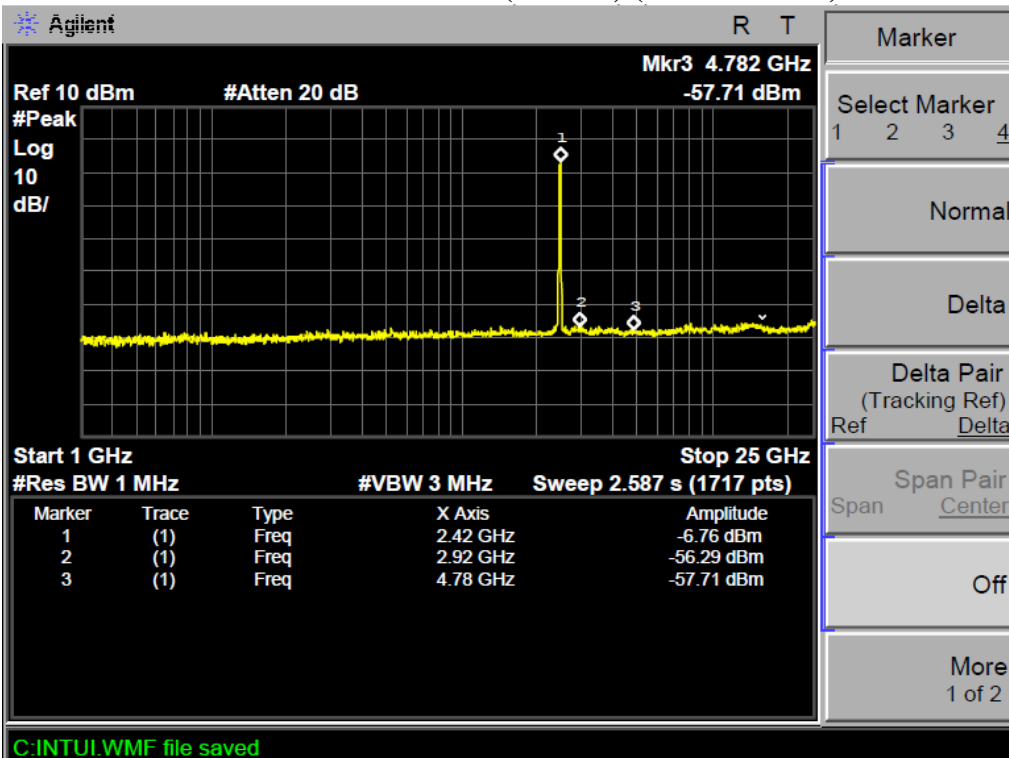




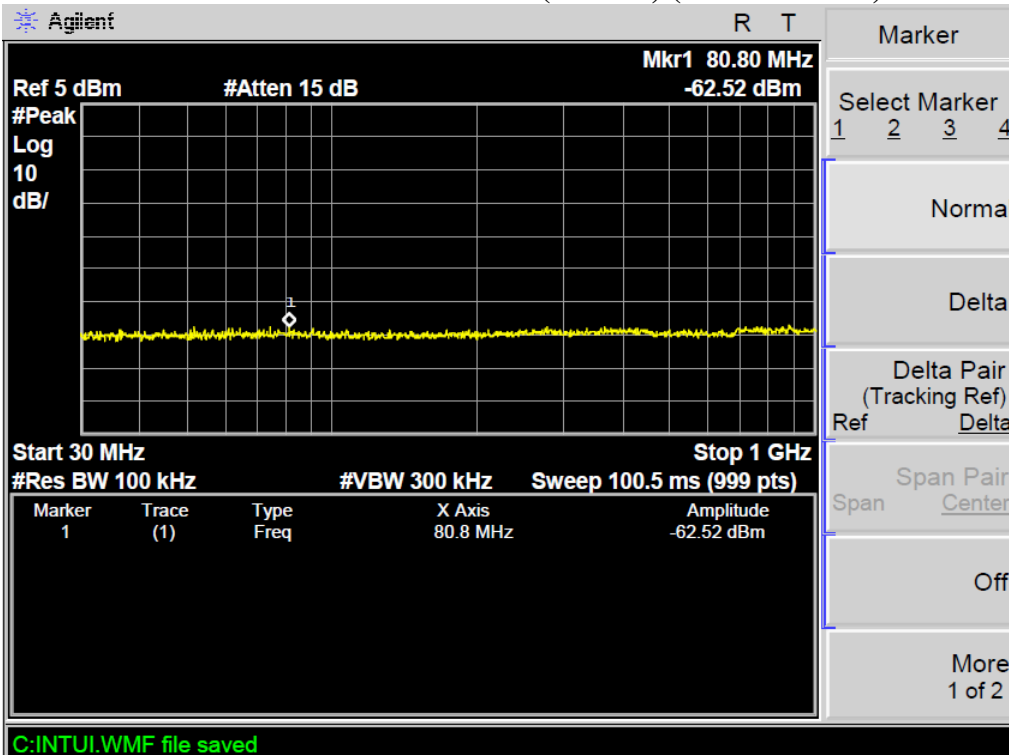
**TX 802.11n Channel Low 2422MHz (40MHz) (30MHz-1GHz)**



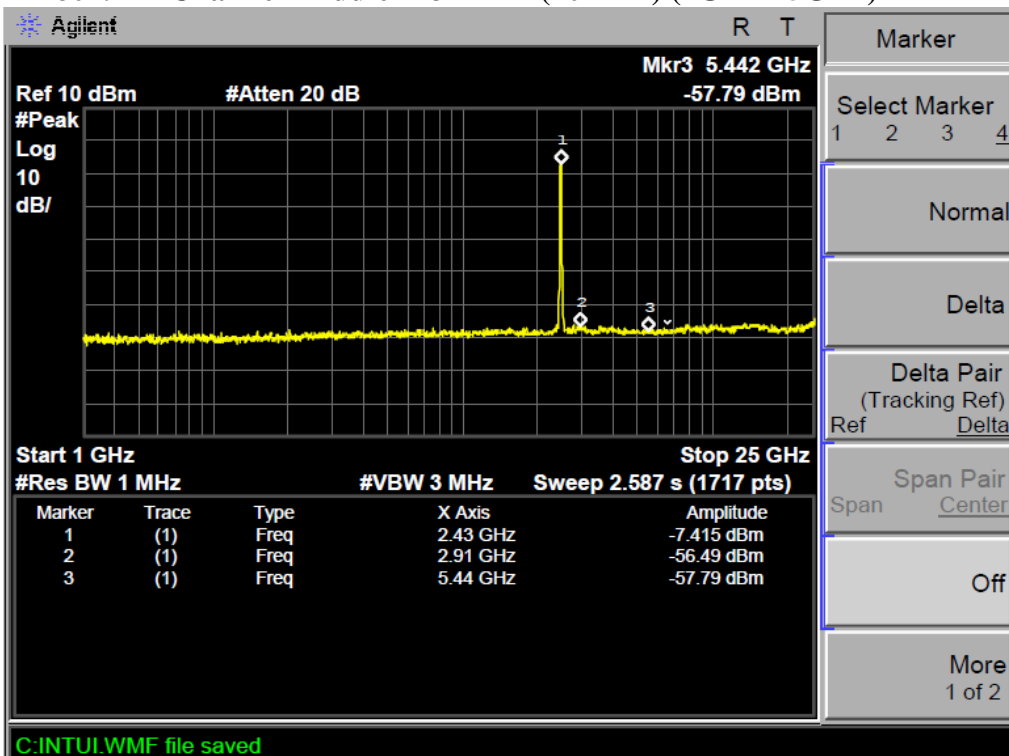
**TX 802.11n Channel Low 2422MHz (40MHz) (1GHz-25GHz)**



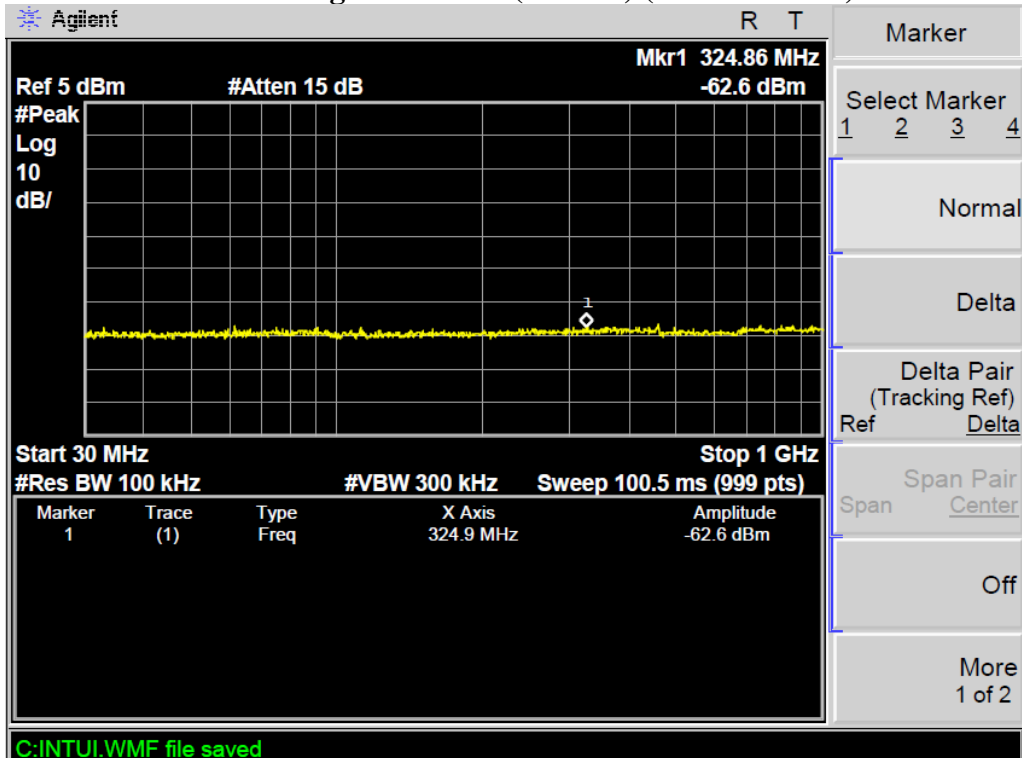
**TX 802.11n Channel Middle 2437MHz (40MHz) (30MHz-1GHz)**



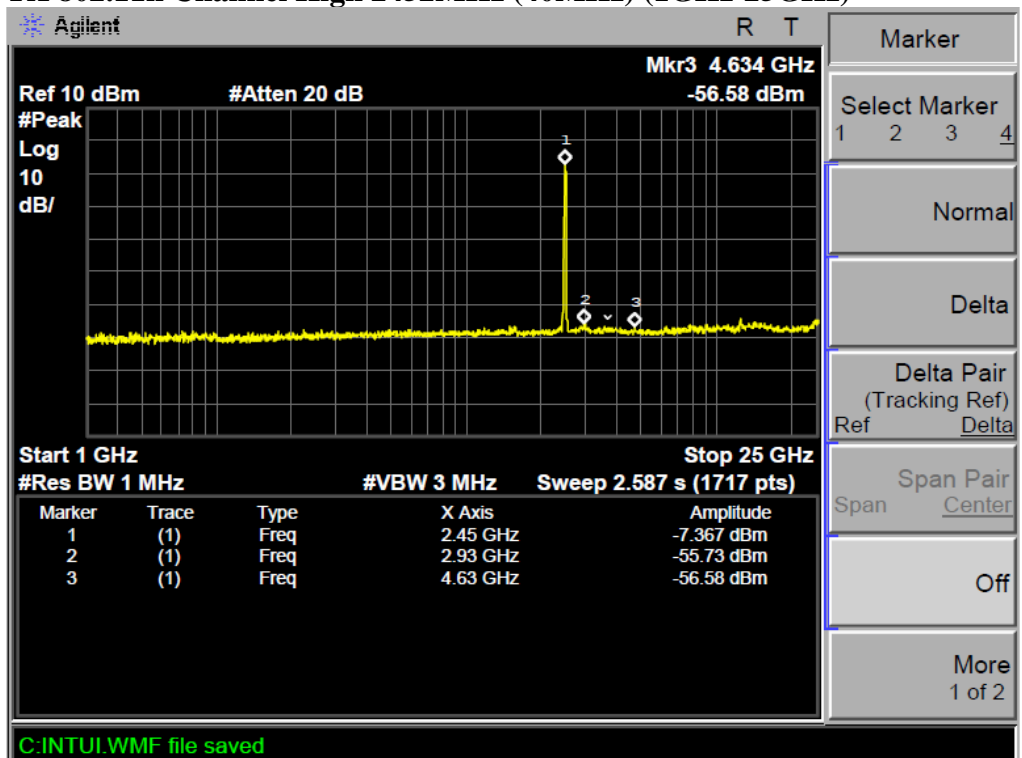
**TX 802.11n Channel Middle 2437MHz (40MHz) (1GHz-25GHz)**



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



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

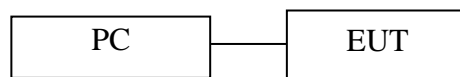


# 11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

## 15 SECTION 15.207(A)

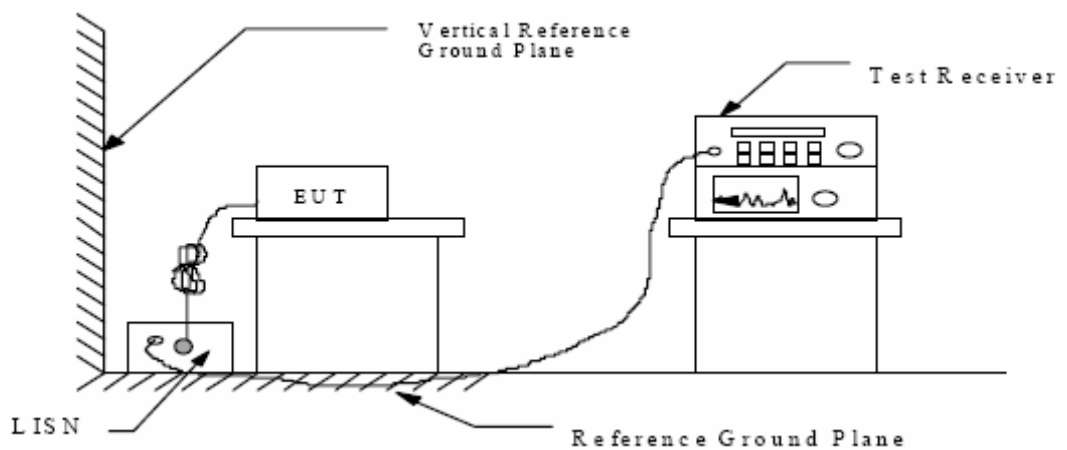
### 11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and simulators



(EUT: Wifi Repeater)

### 11.1.2.Shielding Room Test Setup Diagram



(EUT: Wifi Repeater)

### 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 Repeater (EUT)

Model Number : VRP150  
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>July 27, 2013</u>	Temperature:	<u>25°C</u>
EUT:	<u>Wifi Repeater</u>	Humidity:	<u>50%</u>
Model No.:	<u>VRP150</u>	Power Supply:	<u>AC120V/50Hz</u>
Test Mode:	<u>TX</u>	Test Engineer:	<u>Star</u>

Frequency (MHz)	Result (dB $\mu$ V)	Limit (dB $\mu$ V)	Margin (dB)	Detector	Line
0.175269	53.40	65	-11.3	QP	Neutral
0.304059	41.30	60	-18.8	QP	
3.256746	37.40	56	-18.6	QP	
0.175269	39.90	55	-14.8	AV	
0.301641	27.00	50	-23.2	AV	
2.532561	30.60	46	-15.4	AV	
0.173183	52.10	65	-12.7	QP	Live
0.239296	43.20	62	-18.9	QP	
3.349036	37.90	56	-18.1	QP	
0.174571	40.10	55	-14.6	AV	
0.239296	32.60	52	-19.5	AV	
2.743053	31.70	46	-14.3	AV	

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

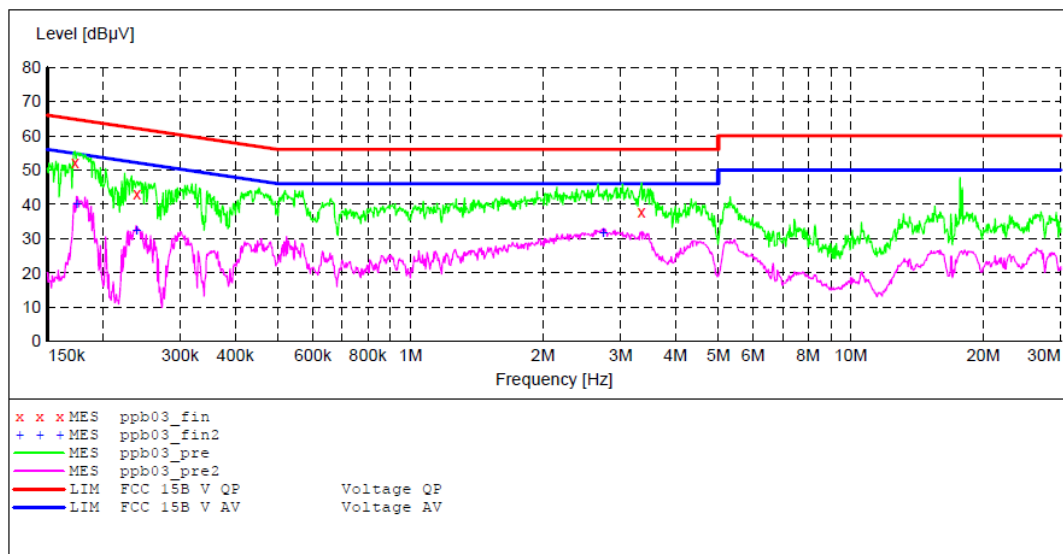
ACCURATE TECHNOLOGY CO.,LTD

CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: Wifi Repeater M/N:VRP150  
 Manufacturer: HouTian  
 Operating Condition: ON  
 Test Site: 1#Shielding Room  
 Operator: star  
 Test Specification: L 120V/60Hz  
 Comment: Report No.:ATE20131606  
 Start of Test: 7/27/2013 / 3:09:17PM

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 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



MEASUREMENT RESULT: "ppb03\_fin"

7/27/2013 3:14PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.173183	52.10	11.6	65	12.7	QP	L1	GND
0.239296	43.20	11.9	62	18.9	QP	L1	GND
3.349036	37.90	12.3	56	18.1	QP	L1	GND

MEASUREMENT RESULT: "ppb03\_fin2"

7/27/2013 3:14PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.174571	40.10	11.6	55	14.6	AV	L1	GND
0.239296	32.60	11.9	52	19.5	AV	L1	GND
2.743053	31.70	12.3	46	14.3	AV	L1	GND

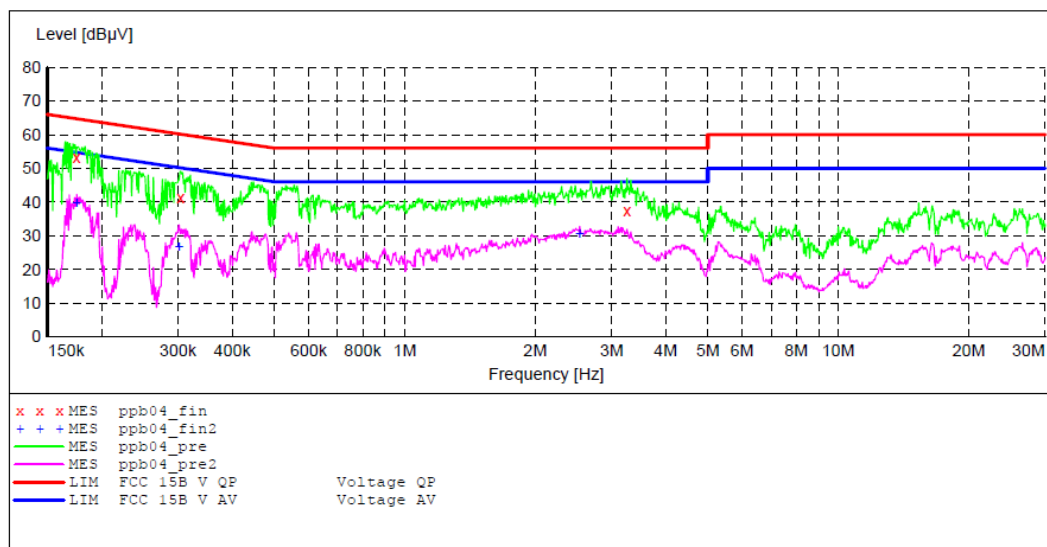
**ACCURATE TECHNOLOGY CO.,LTD**

**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: Wifi Repeater M/N:VRP150  
 Manufacturer: HouTian  
 Operating Condition: ON  
 Test Site: 1#Shielding Room  
 Operator: star  
 Test Specification: N 120V/60Hz  
 Comment: Report No.:ATE20131606  
 Start of Test: 7/27/2013 / 3:15:00PM

**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 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008  
 Average



**MEASUREMENT RESULT: "ppb04\_fin"**

7/27/2013 3:17PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.175269	53.40	11.6	65	11.3	QP	N	GND
0.304059	41.30	12.1	60	18.8	QP	N	GND
3.256746	37.40	12.3	56	18.6	QP	N	GND

**MEASUREMENT RESULT: "ppb04\_fin2"**

7/27/2013 3:17PM

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.175269	39.90	11.6	55	14.8	AV	N	GND
0.301641	27.00	12.1	50	23.2	AV	N	GND
2.532561	30.60	12.4	46	15.4	AV	N	GND



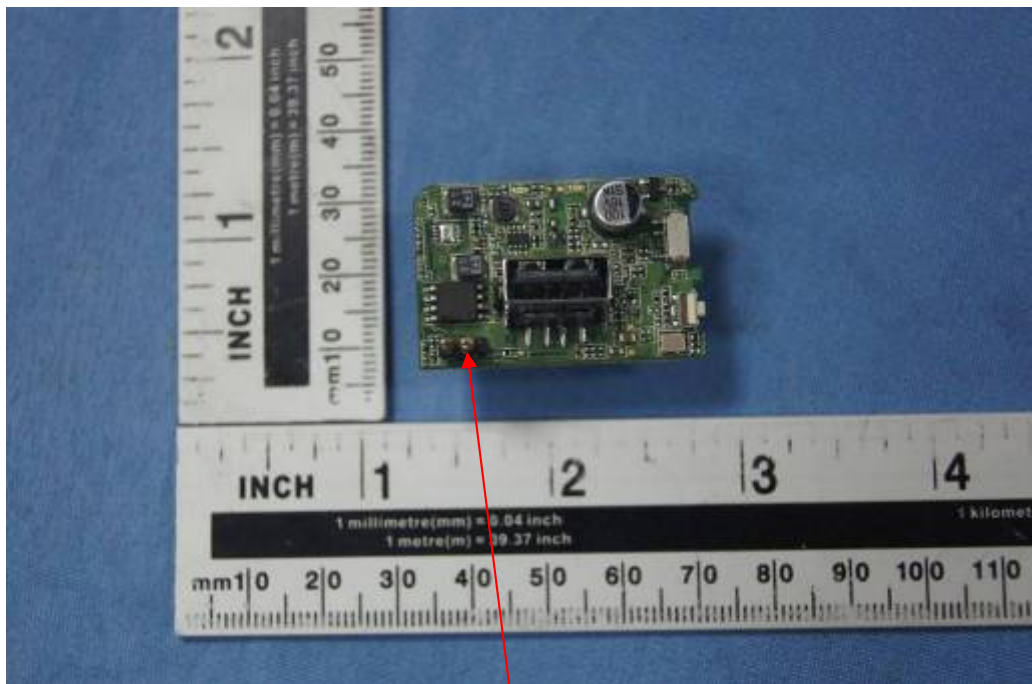
## 12.ANTENNA REQUIREMENT

### 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