

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
2022.000000	46.4	1000.0	1000.000	H	-10.2	27.6	74.0
3201.000000	43.5	1000.0	1000.000	H	-8.2	30.5	74.0
4003.000000	54.5	1000.0	1000.000	H	-6.6	19.5	74.0
4804.000000	51.7	1000.0	1000.000	H	-4.7	22.3	74.0
8036.000000	49.9	1000.0	1000.000	H	0.4	24.2	74.0
13945.000000	54.9	1000.0	1000.000	H	5.9	19.1	74.0
17224.000000	59.5	1000.0	1000.000	H	11.6	14.5	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
2022.000000	35.3	1000.0	1000.000	H	-10.2	18.8	54.0
3201.000000	30.2	1000.0	1000.000	H	-8.2	23.8	54.0
4003.000000	48.7	1000.0	1000.000	H	-6.6	5.3	54.0
4804.000000	43.1	1000.0	1000.000	H	-4.7	11.0	54.0
8036.000000	35.8	1000.0	1000.000	H	0.4	18.2	54.0
13945.000000	42.0	1000.0	1000.000	H	5.9	12.0	54.0
17224.000000	46.2	1000.0	1000.000	H	11.6	7.8	54.0

Tested by: Jason Wu

Reviewed by: Jacky Chen

20190617

20190624

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

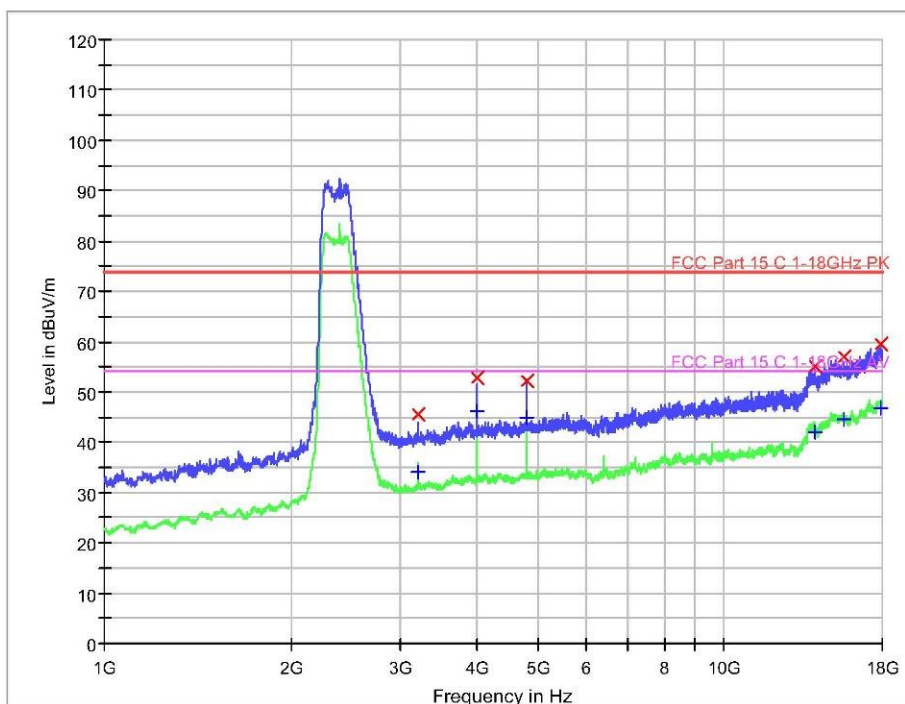
EMC Test Record (Emission)

Common Information

Manufacturer:	Bohan
Test Item:	Helmet Remote Control
Identification:	FT03
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(1DH5 L)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	DC 3.7V
Receipt No:	170103327
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
3201.000000	45.6	1000.0	1000.000	V	-8.2	28.4	74.0
4003.000000	52.8	1000.0	1000.000	V	-6.6	21.2	74.0
4804.000000	52.3	1000.0	1000.000	V	-4.7	21.7	74.0
14026.000000	54.9	1000.0	1000.000	V	5.8	19.1	74.0
15580.000000	57.0	1000.0	1000.000	V	8.5	17.0	74.0
17849.000000	59.5	1000.0	1000.000	V	11.3	14.5	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
3201.000000	34.2	1000.0	1000.000	V	-8.2	19.8	54.0
4003.000000	46.2	1000.0	1000.000	V	-6.6	7.8	54.0
4804.000000	44.8	1000.0	1000.000	V	-4.7	9.2	54.0
14026.000000	41.9	1000.0	1000.000	V	5.8	12.1	54.0
15580.000000	44.6	1000.0	1000.000	V	8.5	9.4	54.0
17849.000000	46.8	1000.0	1000.000	V	11.3	7.2	54.0

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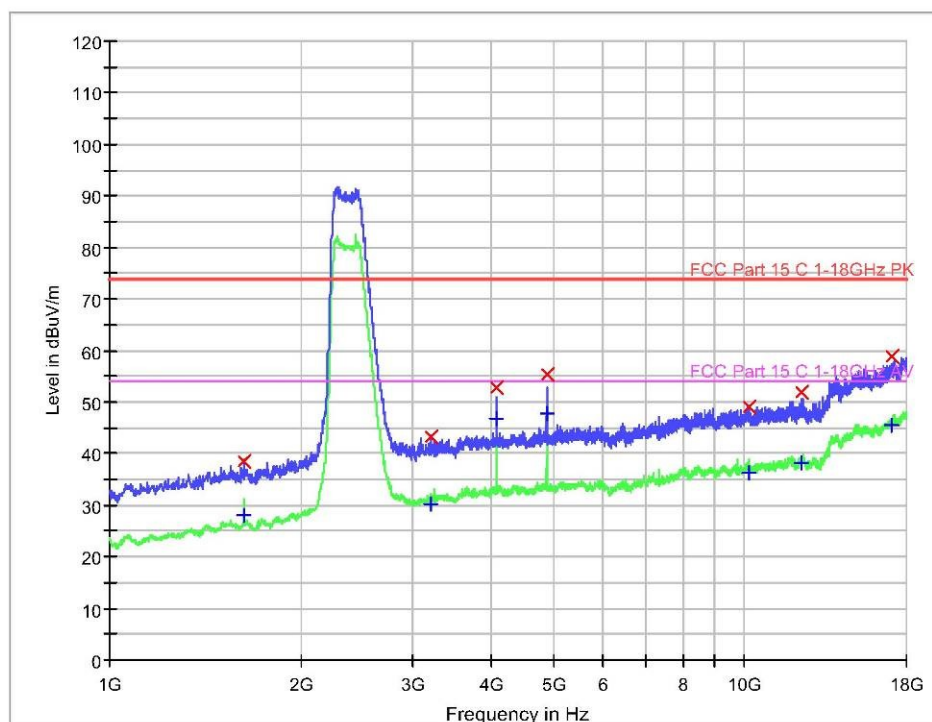
EMC Test Record (Emission)

Common Information

Manufacturer:	Bohan
Test Item:	Helmet Remote Control
Identification:	FT03
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(1DH5 M)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	DC 3.7V
Receipt No:	170103327
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1627.000000	38.5	1000.0	1000.000	V	-13.3	35.5	74.0
3212.000000	43.3	1000.0	1000.000	V	-8.1	30.7	74.0
4068.000000	53.0	1000.0	1000.000	V	-6.5	21.0	74.0
4882.000000	55.4	1000.0	1000.000	V	-4.4	18.6	74.0
10195.000000	49.1	1000.0	1000.000	V	3.5	24.9	74.0
12292.000000	52.0	1000.0	1000.000	V	5.2	22.0	74.0
17022.000000	58.7	1000.0	1000.000	V	11.1	15.3	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1627.000000	28.0	1000.0	1000.000	V	-13.3	26.0	54.0
3212.000000	30.3	1000.0	1000.000	V	-8.1	23.7	54.0
4068.000000	46.9	1000.0	1000.000	V	-6.5	7.1	54.0
4882.000000	47.8	1000.0	1000.000	V	-4.4	6.2	54.0
10195.000000	36.3	1000.0	1000.000	V	3.5	17.7	54.0
12292.000000	38.4	1000.0	1000.000	V	5.2	15.7	54.0
17022.000000	45.4	1000.0	1000.000	V	11.1	8.6	54.0

Tested by:

Jason Wu

Reviewed by:

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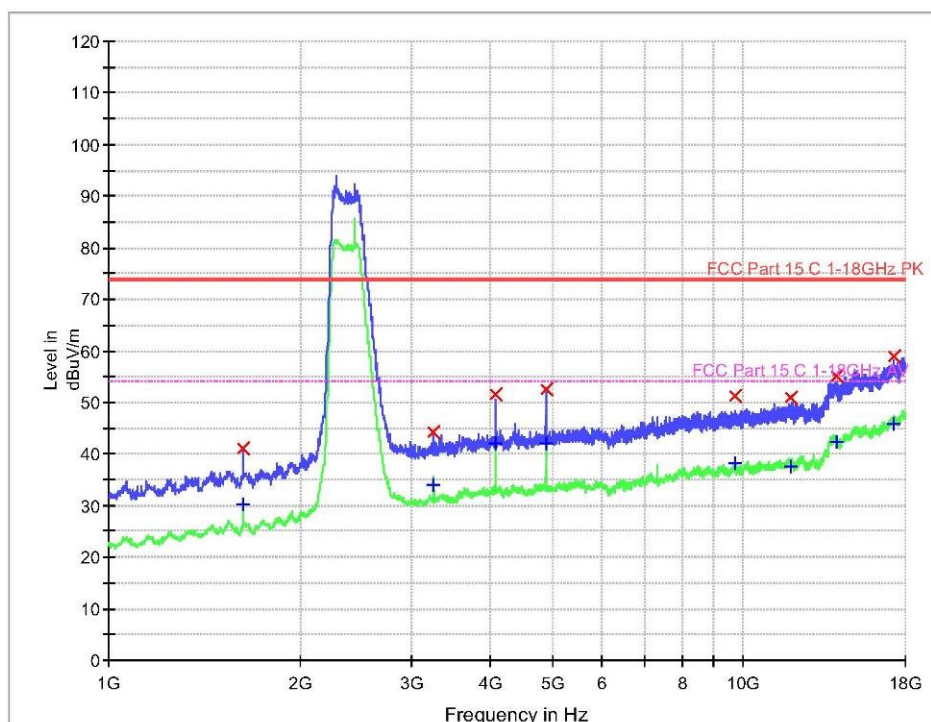
EMC Test Record (Emission)

Common Information

Manufacturer:	Bohan
Test Item:	Helmet Remote Control
Identification:	FT03
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(1DH5 M)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	DC 3.7V
Receipt No:	170103327
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



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EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1627.000000	40.9	1000.0	1000.000	H	-13.3	33.1	74.0
3255.000000	44.1	1000.0	1000.000	H	-7.8	29.9	74.0
4068.000000	51.4	1000.0	1000.000	H	-6.5	22.6	74.0
4882.000000	52.6	1000.0	1000.000	H	-4.4	21.5	74.0
9715.000000	51.2	1000.0	1000.000	H	2.8	22.8	74.0
11888.000000	50.9	1000.0	1000.000	H	4.6	23.1	74.0
13992.000000	55.2	1000.0	1000.000	H	6.0	18.8	74.0
17290.000000	58.9	1000.0	1000.000	H	11.4	15.1	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1627.000000	30.3	1000.0	1000.000	H	-13.3	23.7	54.0
3255.000000	33.9	1000.0	1000.000	H	-7.8	20.1	54.0
4068.000000	42.0	1000.0	1000.000	H	-6.5	12.0	54.0
4882.000000	41.9	1000.0	1000.000	H	-4.4	12.1	54.0
9715.000000	38.2	1000.0	1000.000	H	2.8	15.8	54.0
11888.000000	37.6	1000.0	1000.000	H	4.6	16.4	54.0
13992.000000	42.2	1000.0	1000.000	H	6.0	11.8	54.0
17290.000000	45.8	1000.0	1000.000	H	11.4	8.2	54.0

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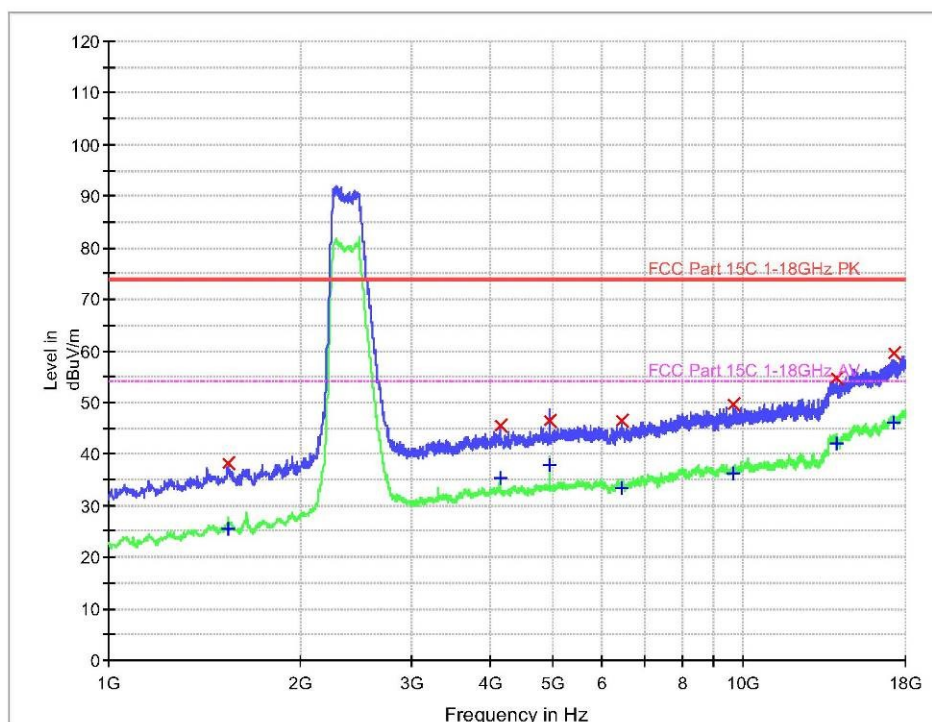
EMC Test Record (Emission)

Common Information

Manufacturer:	Bohan
Test Item:	Helmet Remote Control
Identification:	FT03
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(1DH5 H)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	DC 3.7V
Receipt No:	170103327
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1542.000000	38.1	1000.0	1000.000	H	-13.9	35.9	74.0
4132.000000	45.6	1000.0	1000.000	H	-6.2	28.4	74.0
4959.000000	46.6	1000.0	1000.000	H	-4.7	27.4	74.0
6421.000000	46.6	1000.0	1000.000	H	-2.9	27.4	74.0
9661.000000	49.6	1000.0	1000.000	H	2.8	24.4	74.0
14016.000000	54.7	1000.0	1000.000	H	5.8	19.3	74.0
17271.000000	59.6	1000.0	1000.000	H	11.5	14.4	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1542.000000	25.5	1000.0	1000.000	H	-13.9	28.5	54.0
4132.000000	35.2	1000.0	1000.000	H	-6.2	18.8	54.0
4959.000000	38.0	1000.0	1000.000	H	-4.7	16.0	54.0
6421.000000	33.4	1000.0	1000.000	H	-2.9	20.6	54.0
9661.000000	36.4	1000.0	1000.000	H	2.8	17.6	54.0
14016.000000	42.0	1000.0	1000.000	H	5.8	12.0	54.0
17271.000000	46.0	1000.0	1000.000	H	11.5	8.0	54.0

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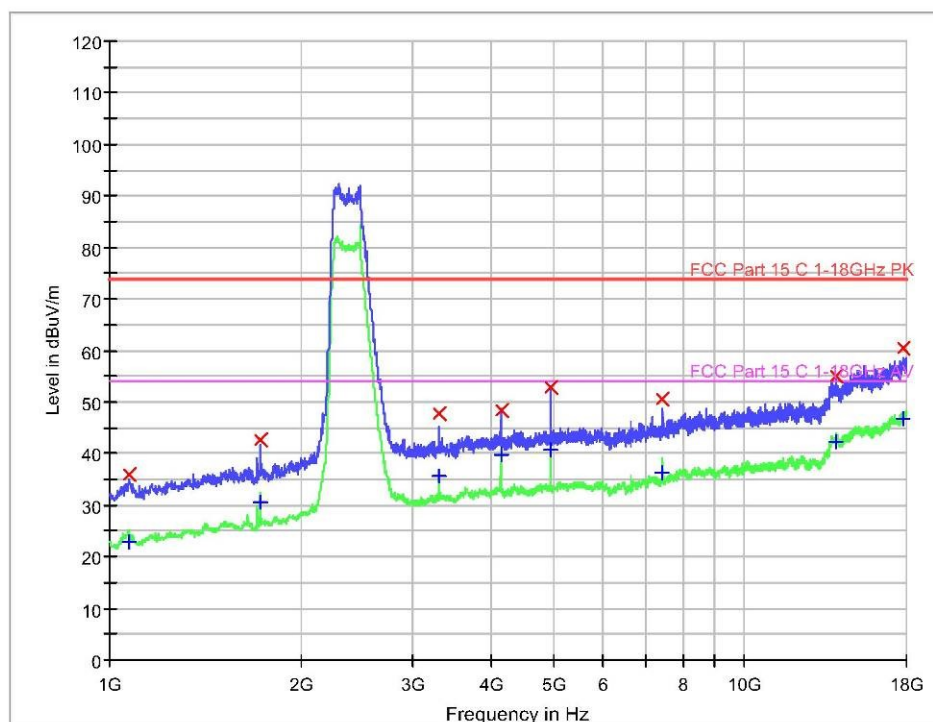
EMC Test Record (Emission)

Common Information

Manufacturer:	Bohan
Test Item:	Helmet Remote Control
Identification:	FT03
Test Standard:	FCC Part 15
Test Detail:	Radiated Emission
Operation Mode:	Transmitting(1DH5 H)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	DC 3.7V
Receipt No:	170103327
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-07_1GHz-18GHz_With PreAMP EXT& Notch filter



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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
1072.000000	36.0	1000.0	1000.000	V	-16.3	38.0	74.0
1729.000000	42.6	1000.0	1000.000	V	-13.0	31.4	74.0
3306.000000	47.7	1000.0	1000.000	V	-8.0	26.3	74.0
4132.000000	48.5	1000.0	1000.000	V	-6.2	25.5	74.0
4959.000000	52.7	1000.0	1000.000	V	-4.7	21.3	74.0
7441.000000	50.6	1000.0	1000.000	V	-1.0	23.4	74.0
13962.000000	54.9	1000.0	1000.000	V	6.0	19.1	74.0
17826.000000	60.5	1000.0	1000.000	V	11.4	13.5	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
1072.000000	22.8	1000.0	1000.000	V	-16.3	31.2	54.0
1729.000000	30.5	1000.0	1000.000	V	-13.0	23.5	54.0
3306.000000	35.6	1000.0	1000.000	V	-8.0	18.4	54.0
4132.000000	39.9	1000.0	1000.000	V	-6.2	14.1	54.0
4959.000000	40.9	1000.0	1000.000	V	-4.7	13.2	54.0
7441.000000	36.3	1000.0	1000.000	V	-1.0	17.7	54.0
13962.000000	42.2	1000.0	1000.000	V	6.0	11.8	54.0
17826.000000	46.7	1000.0	1000.000	V	11.4	7.3	54.0

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Reviewed by: Jacky Chen

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Appendix B.8: Test Results of Radiated Emissions in Restricted Bands

Low channel

TUV Rheinland (Guangdong) Ltd.

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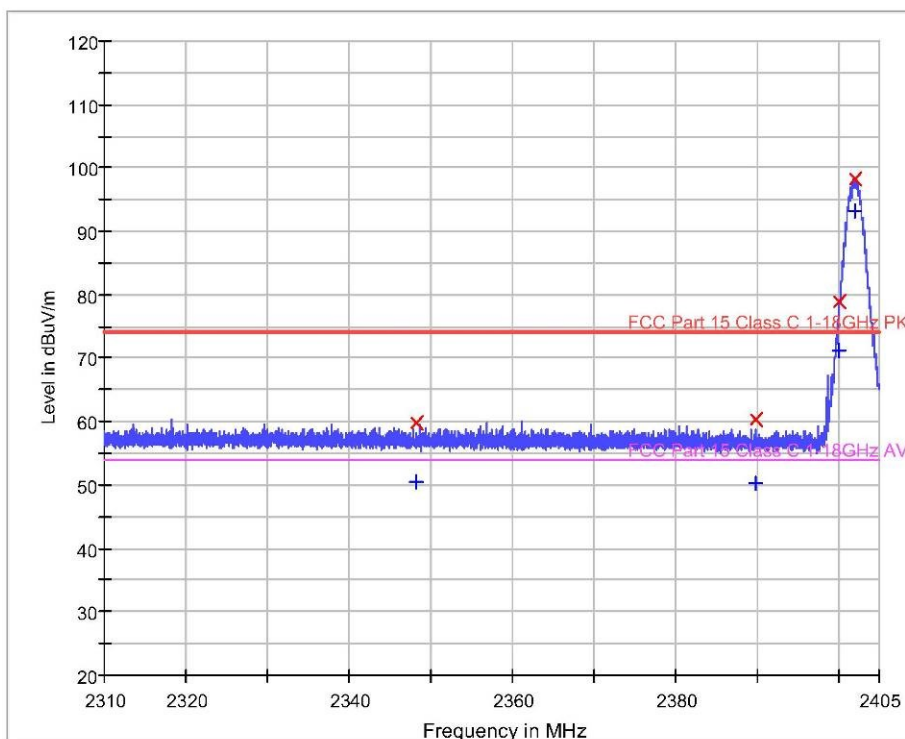
EMC Test Record (Emission)

Common Information

Manufacturer:	Bohan
Test Item:	Helmet Remote Control
Identification:	FT03
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Transmitting(1DH5-Low)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	DC 3.7 V
Receipt No:	170103327
Report No:	/
Result:	Pass
Comment:	Horizontal

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-04_1GHz-18GHz



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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
2348.320000	59.7	1000.0	1000.000	H	32.9	14.3	74.0
2390.000000	60.4	1000.0	1000.000	H	33.0	13.7	74.0
2401.960000	98.4	1000.0	1000.000	H	33.0	/	/

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
2348.320000	50.4	1000.0	1000.000	H	32.9	3.6	54.0
2390.000000	50.1	1000.0	1000.000	H	33.0	3.9	54.0
2401.960000	93.1	1000.0	1000.000	H	33.0	/	/

Tested by: Jason Wu

Reviewed by: Jacky Chen

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TUV Rheinland (Guangdong) Ltd.

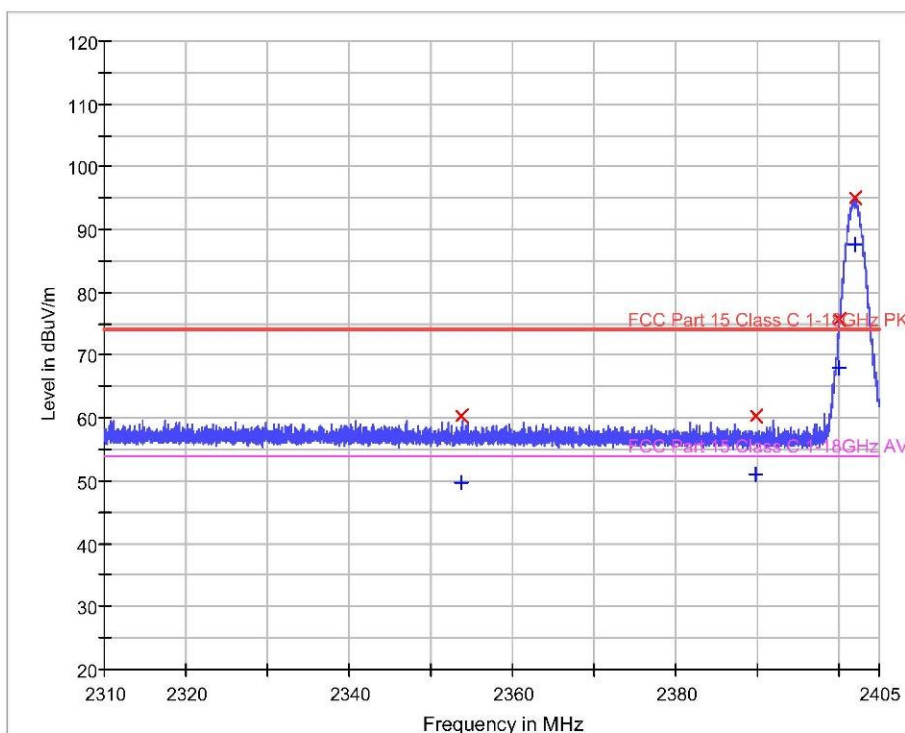
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Bohan
Test Item:	Helmet Remote Control
Identification:	FT03
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Transmitting(1DH5-Low)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	DC 3.7 V
Receipt No:	170103327
Report No:	/
Result:	Pass
Comment:	Vertical
Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-04_1GHz-18GHz



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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
2353.840000	60.2	1000.0	1000.000	V	32.9	13.8	74.0
2390.000000	60.3	1000.0	1000.000	V	33.0	13.7	74.0
2401.960000	95.0	1000.0	1000.000	V	33.0	/	/

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
2353.840000	49.6	1000.0	1000.000	V	32.9	4.4	54.0
2390.000000	51.1	1000.0	1000.000	V	33.0	2.9	54.0
2401.960000	87.6	1000.0	1000.000	V	33.0	/	/

Tested by: Jason Wu

Reviewed by: Jacky Chen

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High channel

TUV Rheinland (Guangdong) Ltd.

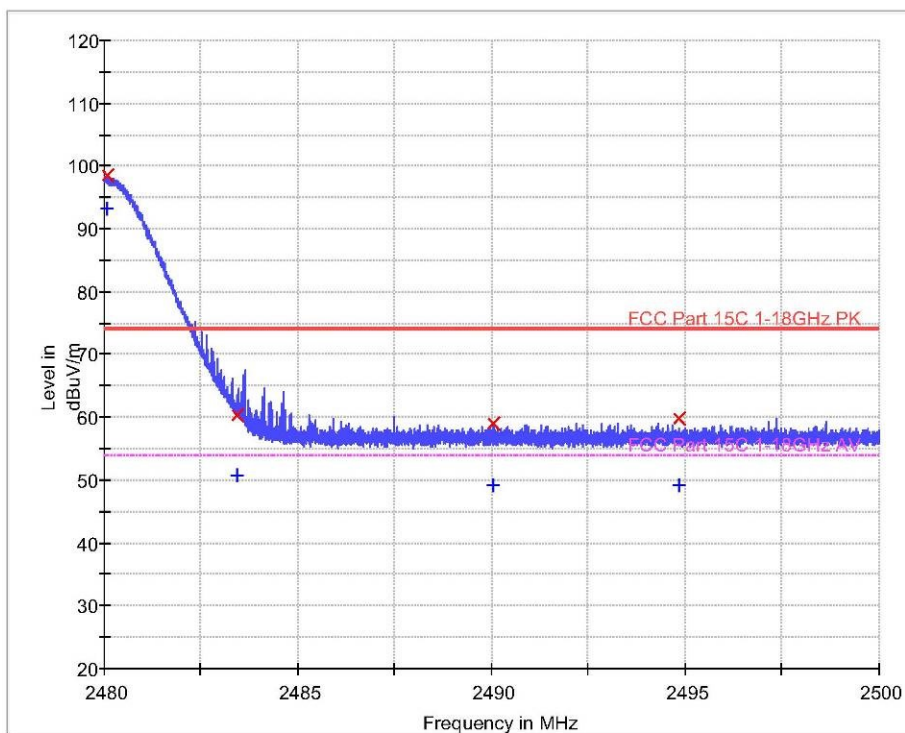
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Bohan
Test Item:	Helmet Remote Control
Identification:	FT03
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Transmitting(1DH5-High)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	DC 3.7 V
Receipt No:	170103327
Report No:	/
Result:	Pass
Comment:	Horizontal
Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-04_1GHz-18GHz



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Jason Wu

Reviewed by:

Jacky Chen

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EMC Test Service Hotline: +86-20-28391188

Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
2480.080000	98.4	1000.0	1000.000	H	33.2	/	/
2483.500000	60.2	1000.0	1000.000	H	33.2	13.8	74.0
2490.040000	59.1	1000.0	1000.000	H	33.2	14.9	74.0
2494.840000	59.7	1000.0	1000.000	H	33.2	14.3	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
2480.080000	93.2	1000.0	1000.000	H	33.2	/	/
2483.500000	50.8	1000.0	1000.000	H	33.2	3.2	54.0
2490.040000	49.1	1000.0	1000.000	H	33.2	4.9	54.0
2494.840000	49.2	1000.0	1000.000	H	33.2	4.8	54.0

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TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

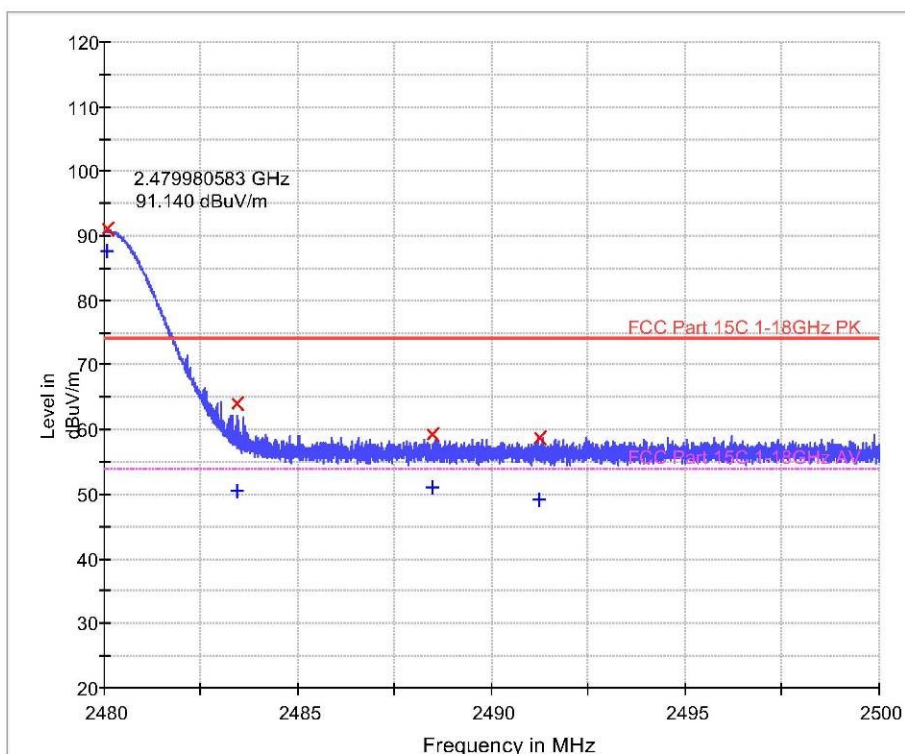
EMC Test Record (Emission)

Common Information

Manufacturer:	Bohan
Test Item:	Helmet Remote Control
Identification:	FT03
Test Standard:	FCC Part 15
Test Detail:	Band edge
Operation Mode:	Transmitting(1DH5-High)
Climate Condition:	20 °C, 50 %, 100 k Pa
Test Voltage/ Freq:	DC 3.7 V
Receipt No:	170103327
Report No:	/
Result:	Pass
Comment:	Vertical

Subrange 1	
Frequency Range:	1GHz-18GHz
Receiver:	TUV FSP30
Transducer:	TUV SAC HF907/ TUV FSP30-TUV SAC HF907

EMCTT_EREFO11-A02-04_1GHz-18GHz



Tested by: Jason Wu

Reviewed by: Jacky Chen

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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBuV/m)
2480.080000	91.1	1000.0	1000.000	V	33.2	/	/
2483.500000	64.0	1000.0	1000.000	V	33.2	10.0	74.0
2488.480000	59.3	1000.0	1000.000	V	33.2	14.7	74.0
2491.240000	58.7	1000.0	1000.000	V	33.2	15.3	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBuV/m)
2480.080000	87.7	1000.0	1000.000	V	33.2	/	/
2483.500000	50.4	1000.0	1000.000	V	33.2	3.6	54.0
2488.480000	51.1	1000.0	1000.000	V	33.2	2.9	54.0
2491.240000	49.1	1000.0	1000.000	V	33.2	4.9	54.0

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Appendix B.9: Test Results of Conducted Emission on AC Mains

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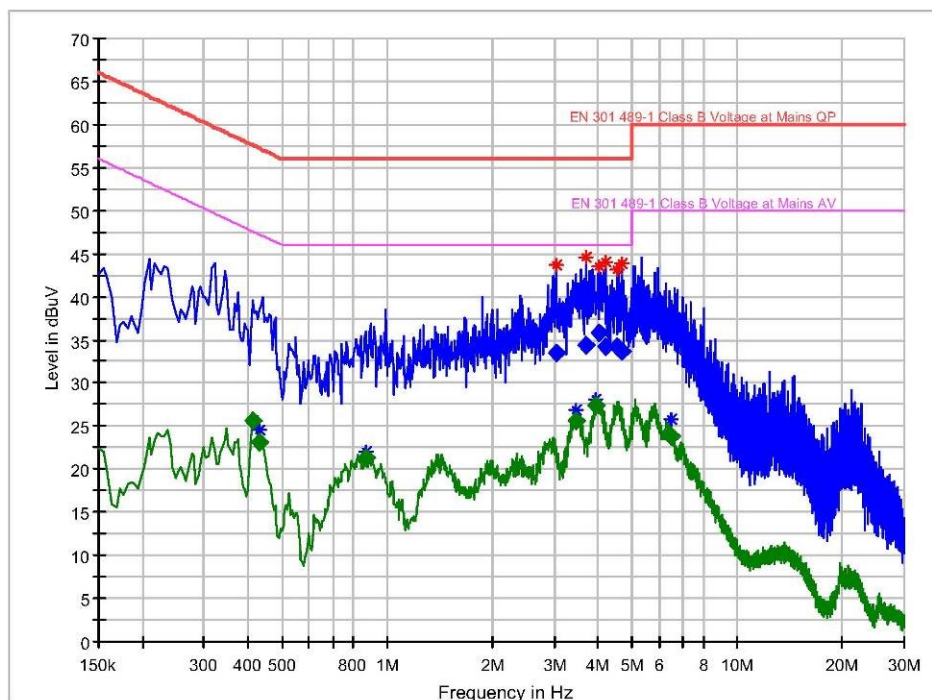
EMC Test Record (EMISSION)

Test Information

Manufacturer: Bohan
Test Item: Helmet Remote Control
Identification: FT-03
Test Standard: FCC Part 15
Test Detail: Conducted Emission
Operation Mode: A(Charging)
Climate Condition: 21 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq.: AC 120 V / 50 Hz(With adapter)
Port / Line: AC Mains(L1+N)
Receipt No.: 170103327
Report No.: /
Result: Pass
Comment: /

Hardware Setup: 1phase LISN ENV216 to ESCI 3
Level Unit: dBµV

Subrange	Detectors	IF Bandwidth	Step Size	Meas. Time	Receiver
150kHz - 30MHz	Peak; Average	9kHz	4.5kHz	10ms	ESCI 3



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Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Filter	Corr. (dB)
0.415500	---	25.68	47.54	21.86	1000.	9.000	L1	ON	9.7
0.433500	---	23.15	47.19	24.03	1000.	9.000	L1	ON	9.7
0.870000	---	21.30	46.00	24.70	1000.	9.000	N	ON	9.7
3.048000	33.39	---	56.00	22.61	1000.	9.000	L1	ON	9.8
3.475500	---	25.52	46.00	20.48	1000.	9.000	L1	ON	9.8
3.696000	34.42	---	56.00	21.58	1000.	9.000	L1	ON	9.8
3.966000	---	27.41	46.00	18.59	1000.	9.000	L1	ON	9.9
4.011000	35.73	---	56.00	20.27	1000.	9.000	N	ON	9.9
4.186500	34.11	---	56.00	21.89	1000.	9.000	L1	ON	9.8
4.551000	34.25	---	56.00	21.75	1000.	9.000	N	ON	9.9
4.690500	33.61	---	56.00	22.39	1000.	9.000	N	ON	9.9
6.454500	---	23.84	50.00	26.16	1000.	9.000	L1	ON	10.0

Tested by: Jason Wu

Reviewed by: Jacky Chen

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