

Figure 1: Test Plot of Spurious emission of A.1 – Horizontal (9kHz – 30MHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

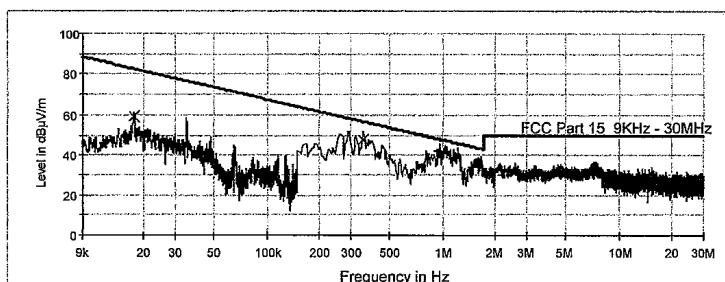
EMC Test Record (Emission)

Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ Low Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3 -TUV SAC

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
7.286000	30.4	---	21.9	H
0.970000	42.3	---	20.3	H
0.017560	---	59.3	20.7	H
0.354000	---	47.9	20.8	H

Sign-off Test Data

Date: 6/23/2011 - Time: 7:26:39

Tested by:  Reviewed by: 

Figure 2: Test Plot of Spurious emission of A.1 – Vertical (9kHz – 30MHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

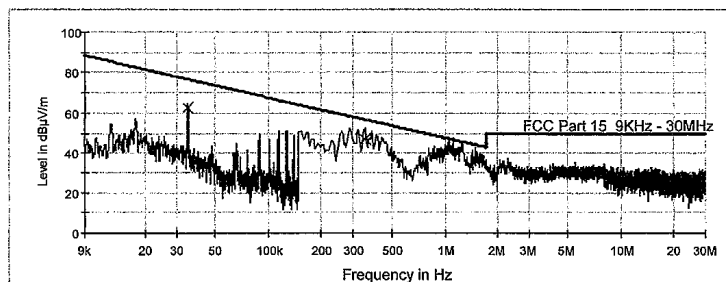
EMC Test Record (Emission)

Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ Low Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3 -TUV SAC

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBuV/m)	Average (dBuV/m)	Corr (dB)	Polarization
1.118000	41.6	—	20.3	V
0.034840	—	62.3	20.2	V
0.354000	—	47.1	20.8	V

Sign-off Test Data

Date: 6/23/2011 - Time: 7:21:04

Tested by:  Reviewed by: 

Figure 3: Test Plot of Spurious emission of A.1 – Horizontal (30MHz – 1GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

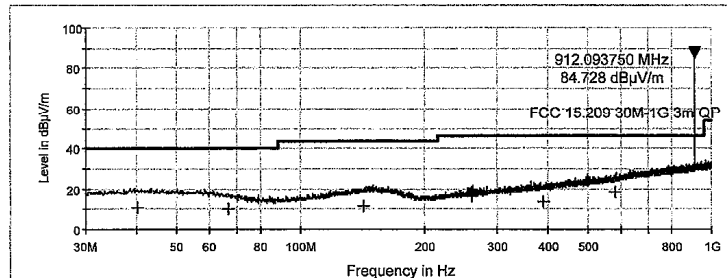
EMC Test Record (Emission)

Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ Low Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QPK (dB)	Limit - QPK (dBuV/m)	Polarization
40.300000	10.9	15.1	29.1	40.0	H
66.850000	9.9	12.7	30.1	40.0	H
142.400000	11.7	15.6	31.8	43.5	H
261.450000	16.2	14.3	29.8	46.0	H
390.350000	13.9	17.7	32.1	46.0	H
583.500000	18.3	21.8	27.7	46.0	H

Sign-off Test Data

Date: 6/23/2011 - Time: 5:33:17

Tested by:  2011.6.23
Reviewed by:  2011.6.27

Figure 4: Test Plot of Spurious emission of A.1 – Vertical (30MHz – 1GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

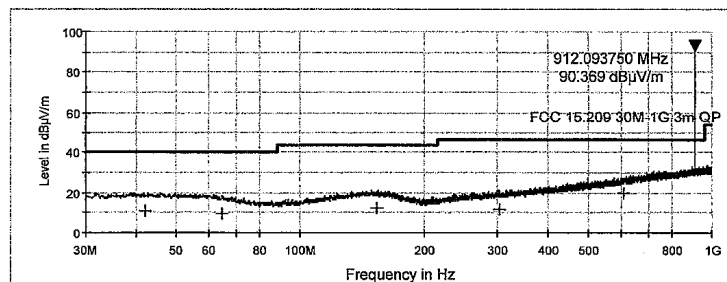
Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ Low Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1

Frequency Range: 30M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin - QPK (dB)	Limit ± QPK (dBµV/m)	Polarization
42.250000	11.1	14.9	28.9	40.0	V
64.700000	9.5	13.1	30.5	40.0	V
154.150000	12.4	16.1	31.1	43.5	V
306.350000	11.8	15.6	34.2	46.0	V
501.050000	24.5	20.1	21.5	46.0	V
611.750000	19.7	22.5	26.3	46.0	V

Sign-off Test Data

Date: 6/23/2011 - Time: 5:27:35

Tested by:  2011.6.23
Reviewed by:  2011.6.27

Figure 5: Test Plot of Spurious emission of A.1 – Horizontal (1GHz – 10GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

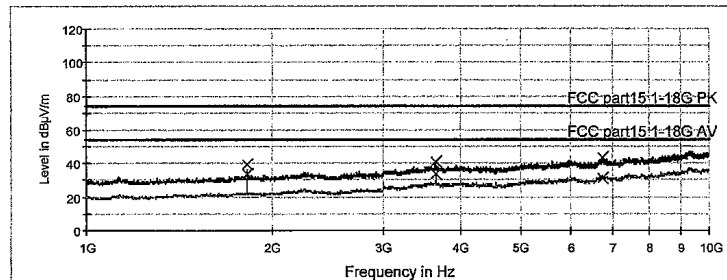
EMC Test Record (Emission)

Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ Low Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-10GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr (dB)	Margin-PK+ (dB)	Limit-PK+ (dBuV/m)	Polarization
1824.000000	38.9	-11.3	35.1	74.0	H
3648.000000	41.2	-4.7	32.8	74.0	H
6767.000000	43.5	3.1	30.5	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr (dB)	Margin-AVG (dB)	Limit-AVG (dBuV/m)	Polarization
1824.000000	33.8	-11.3	20.2	54.0	H
3648.000000	33.5	-4.7	20.4	54.0	H
6767.000000	31.1	3.1	22.9	54.0	H

Sign-off Test Data

Date: 6/23/2011 - Time: 8:59:47

Tested by:  Reviewed by: 

Figure 6: Test Plot of Spurious emission of A.1 – Vertical (1GHz – 10GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

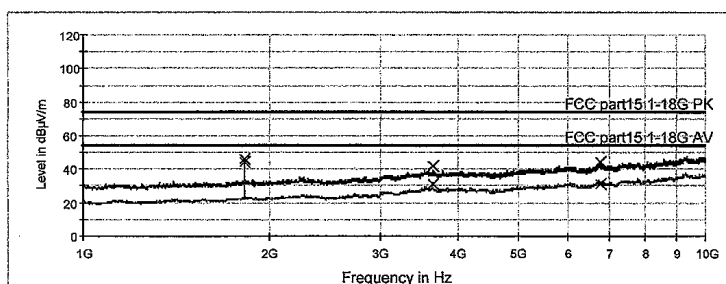
EMC Test Record (Emission)

Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ Low Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-10GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBμV/m)	Corr. (dB)	Margin-PK+ (dB)	Limit-PK+ (dBμV/m)	Polarization
1824.000000	45.6	-11.3	28.4	74.0	V
3648.000000	41.9	-4.7	32.1	74.0	V
6775.000000	44.4	3.1	29.6	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Corr. (dB)	Margin-AVG (dB)	Limit-AVG (dBμV/m)	Polarization
1824.000000	43.7	-11.3	10.3	54.0	V
3648.000000	31.2	-4.7	22.8	54.0	V
6775.000000	31.1	3.1	22.9	54.0	V

Sign-off Test

Date: 6/23/2011 - Time: 8:52:08

Tested by:  2011.6.23
Checked

Reviewed by:  2011.6.27
Checked

Figure 7: Test Plot of Spurious emission of A.2 – Horizontal (9kHz – 30MHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

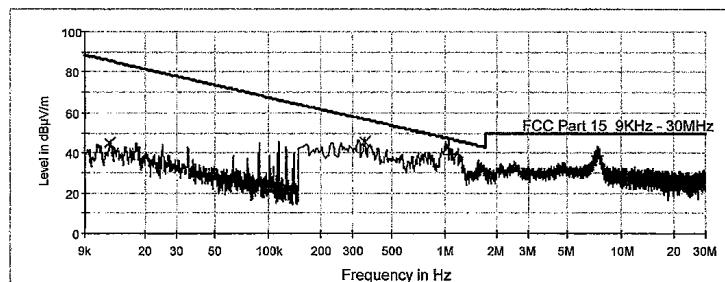
EMC Test Record (Emission)

Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ Middle Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3 -TUV SAC

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Polarization
7.390000	39.4	—	21.9	H
1.058000	40.2	—	20.3	H
0.012520	—	45.2	20.1	H
0.354000	—	46.1	20.8	H

Sign-off Test Data

Date: 6/23/2011 - Time: 7:41:07

Tested by:  Reviewed by: 

Figure 8: Test Plot of Spurious emission of A.2 – Vertical (9kHz – 30MHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

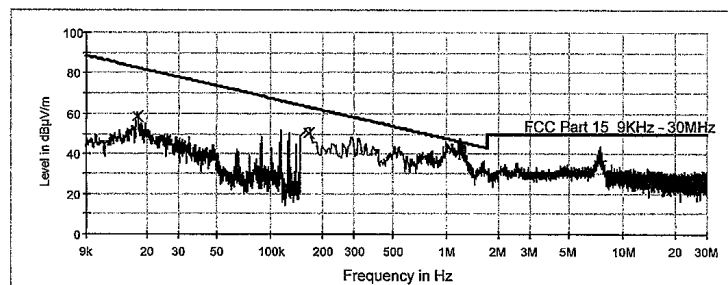
EMC Test Record (Emission)

Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ Middle Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 9kHz - 30MHz
Receiver: TUV ESCI 3
Transducer: TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3 -TUV SAC

Pre TUV 9K to 30M HFH2-Z2



Result Table Single

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr (dB)	Polarization
7.514000	37.2	---	21.9	V
1.210000	40.9	---	20.3	V
0.017560	---	59.3	20.7	V
0.166000	---	52.1	20.7	V

Sign-off Test Data

Date: 6/23/2011 - Time: 7:32:49

Tested by:  2011.6.23

Reviewed by:  2011.6.27

Figure 9: Test Plot of Spurious emission of A.2 – Horizontal (30MHz – 1GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

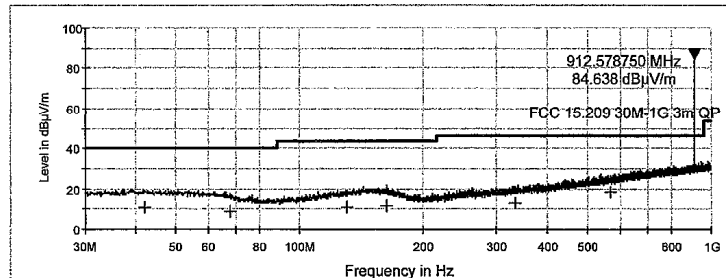
EMC Test Record (Emission)

Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ Middle Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBuV/m)	Corr. (dB)	Margin QP (dB)	Limit - QP (dBuV/m)	Polarization
42.250000	11.1	14.9	26.9	40.0	H
67.700000	8.8	12.5	31.2	40.0	H
130.400000	11.0	14.6	32.6	43.5	H
163.500000	11.3	15.7	32.2	43.5	H
335.300000	12.6	16.4	33.4	46.0	H
571.750000	18.0	21.6	28.0	46.0	H

Sign-off Test Data

Date: 6/23/2011 - Time: 5:38:56

Tested by:  Reviewed by: 

Figure 10: Test Plot of Spurious emission of A.2 – Vertical (30MHz – 1GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

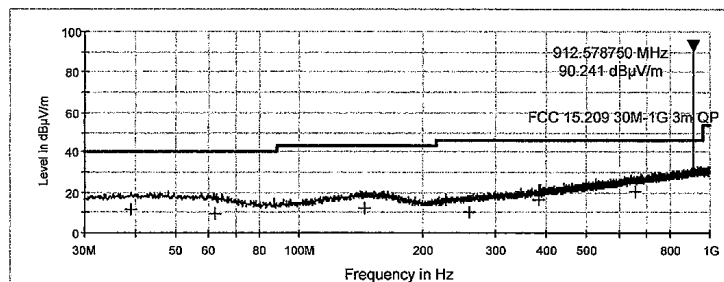
Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ Middle Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1

Frequency Range: 30M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
38.950000	11.4	14.9	28.6	40.0	V
62.150000	9.8	13.6	30.2	40.0	V
144.800000	12.1	15.6	31.4	43.5	V
260.250000	10.3	14.3	35.7	46.0	V
383.950000	16.1	17.6	29.9	46.0	V
661.700000	20.7	23.4	25.3	46.0	V

Sign-off Test Data

Date: 6/23/2011 - Time: 5:43:35

Tested by:  2011.6.23
Reviewed by:  2011.6.23

Figure 11: Test Plot of Spurious emission of A.2 –Horizontal (1GHz – 10GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

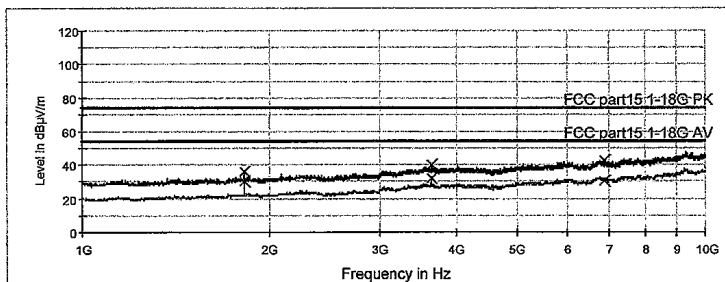
EMC Test Record (Emission)

Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ Middle Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-10GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBµV/m)	Corr (dB)	Margin PK+ (dB)	Limit -PK+ (dBµV/m)	Polarization
1825.000000	35.8	-11.3	38.2	74.0	H
3651.000000	39.6	-4.7	34.4	74.0	H
6901.000000	42.7	2.9	31.3	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBµV/m)	Corr (dB)	Margin AVG (dB)	Limit -AVG (dBµV/m)	Polarization
1825.000000	30.1	-11.3	23.9	54.0	H
3651.000000	32.1	-4.7	21.9	54.0	H
6901.000000	30.2	2.9	23.8	54.0	H

Sign-off Test Data

Date: 6/23/2011 - Time: 9:13:33

Tested by



Reviewed by



Figure 12: Test Plot of Spurious emission of A.2 –Vertical (1GHz – 10GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

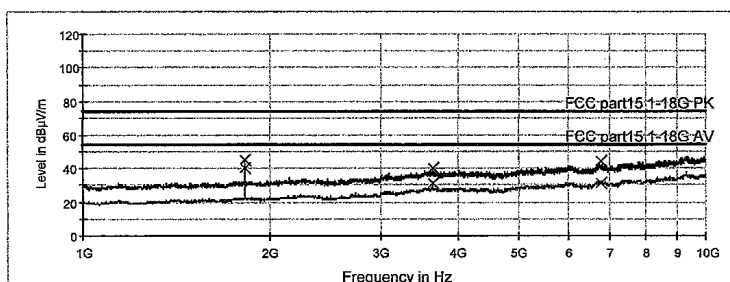
EMC Test Record (Emission)

Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ Middle Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-10GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr (dB)	Margin PK (dB)	Limit PK (dBuV/m)	Polarization
1825.000000	44.8	-11.3	29.2	74.0	V
3649.000000	40.1	-4.7	33.9	74.0	V
6793.000000	43.9	3.0	30.1	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr (dB)	Margin AVG (dB)	Limit AVG (dBuV/m)	Polarization
1825.000000	39.7	-11.3	14.3	54.0	V
3649.000000	31.4	-4.7	22.6	54.0	V
6793.000000	30.6	3.0	23.4	54.0	V

Sign-off Test Data

Date: 6/23/2011 - Time: 9:18:05

Tested by:  Reviewed by: 

Figure 13: Test Plot of Spurious emission of A.3 – Horizontal (9kHz – 30MHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

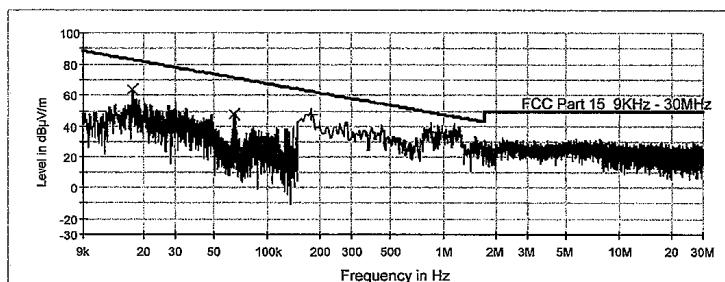
EMC Test Record (Emission)

Common Information

Manufacturer:	Uni-art
Test Item:	Wireless headphone transmitter
Identification:	HP1391
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ High Channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC120V / 60Hz
Receipt No:	163078118 200
Report No:	17021164 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	9kHz - 30MHz
Frequency Range:	TUV ESCI 3
Receiver:	TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3 -TUV SAC
Transducer:	

Pre TUV 9K to 30M HFH2-Z2



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
0.017624	—	64.4	20.7	—	—	H
0.085090	—	46.9	20.3	—	—	H
0.178280	46.9	—	20.8	15.7	62.6	H
0.851800	36.8	—	20.4	12.2	49.0	H

Sign-off Test Data

Date: 6/23/2011 - Time: 7:55:18

Tested by:  Reviewed by: 

Figure 14: Test Plot of Spurious emission of A.3 – Vertical (9kHz – 30MHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

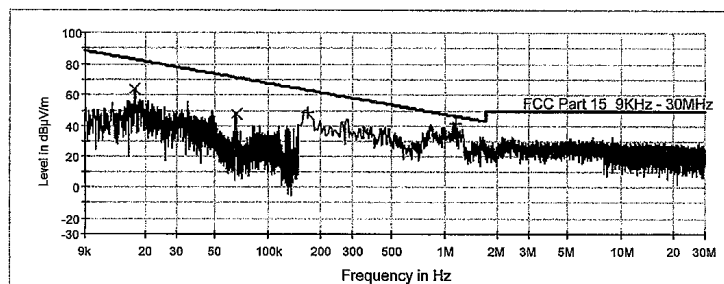
EMC Test Record (Emission)

Common Information

Manufacturer:	Uni-art
Test Item:	Wireless headphone transmitter
Identification:	HP1391
Test Standard:	FCC Part 15.209
Test Detail:	RE
Operation Mode:	Tx @ High Channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC120V / 60Hz
Receipt No:	163078118 200
Report No:	17021164 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	9kHz - 30MHz
Frequency Range:	TUV ESCI 3
Receiver:	TUV SAC Active Loop Antenna HFH2-Z2 / TUV ESCI3 -TUV SAC
Transducer:	

Pre TUV 9K to 30M HFH2-Z2



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Average (dBµV/m)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)	Polarization
0.017320	---	63.9	20.7	---	---	V
0.065720	---	47.5	20.3	---	---	V
0.170000	48.7	---	20.7	14.3	63.0	V
1.154000	41.4	---	20.3	5.0	46.4	V

Sign-off Test Data

Date: 6/23/2011 - Time: 7:48:11

Tested by:  Reviewed by: 

Figure 15: Test Plot of Spurious emission of A.3 – Horizontal (30MHz – 1GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

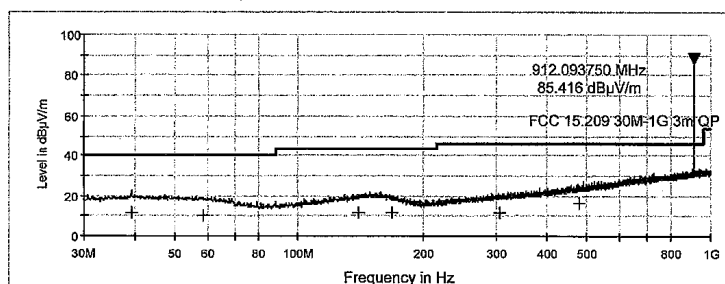
EMC Test Record (Emission)

Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ High Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 30M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr (dB)	Margin QPK (dB)	Limit - QPK (dBµV/m)	Polarization
39.200000	11.5	14.9	28.5	40.0	H
58.850000	10.1	14.0	29.9	40.0	H
140.600000	11.6	15.4	31.9	43.5	H
168.450000	11.3	15.3	32.2	43.5	H
307.650000	11.8	15.7	34.2	46.0	H
481.400000	16.1	19.8	29.9	46.0	H

Sign-off Test Data

Date: 6/23/2011 - Time: 5:53:05

Tested by:  6.23

Reviewed by: _____



Figure 16: Test Plot of Spurious emission of A.3 – Vertical (30MHz – 1GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

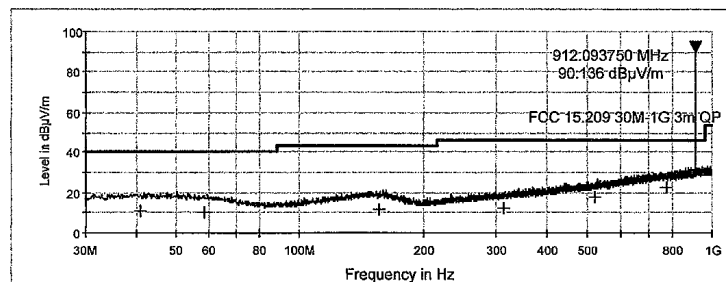
Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ High Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1

Frequency Range: 30M-1GHz
Receiver: TUV ESCI 3
Transducer: TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Limit and Margin QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Corr. (dB)	Margin QPK (dB)	Limit QPK (dBµV/m)	Polarization
40.900000	10.6	15.0	29.4	40.0	V
58.600000	10.2	14.1	29.8	40.0	V
156.600000	11.9	16.1	31.6	43.5	V
314.350000	12.0	15.9	34.0	46.0	V
522.900000	17.5	20.7	28.5	46.0	V
777.150000	22.2	25.1	23.8	46.0	V

Sign-off Test Data

Date: 6/23/2011 - Time: 5:47:23

Tested by: _____ Reviewed by: 

Figure 17: Test Plot of Spurious emission of A.3 – Horizontal (1GHz – 10GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

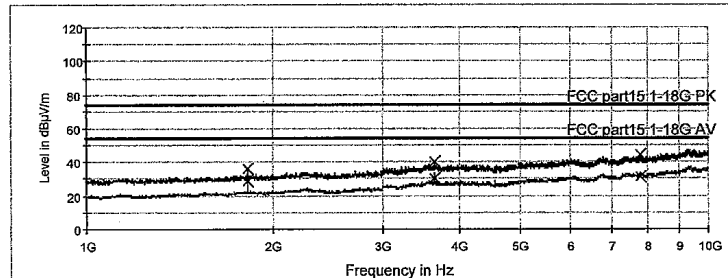
EMC Test Record (Emission)

Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ High Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Horizontal

Subrange 1
Frequency Range: 1GHz-10GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBμV/m)	Corr. (dB)	Margin PK+ (dB)	Limit PK+ (dBμV/m)	Polarization
1826.000000	35.9	-11.3	38.1	74.0	H
3652.000000	40.0	-4.7	34.0	74.0	H
7776.000000	44.3	5.0	29.7	74.0	H

Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Corr. (dB)	Margin AVG (dB)	Limit AVG (dBμV/m)	Polarization
1826.000000	28.8	-11.3	25.2	54.0	H
3652.000000	30.2	-4.7	23.8	54.0	H
7776.000000	31.4	5.0	22.6	54.0	H

Sign-off Test Data

Date: 6/23/2011 - Time: 9:27:35

Tested by:  2011.6.23
Reviewed by:  2011.6.27

Figure 18: Test Plot of Spurious emission of A.3 – Vertical (1GHz – 10GHz)

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

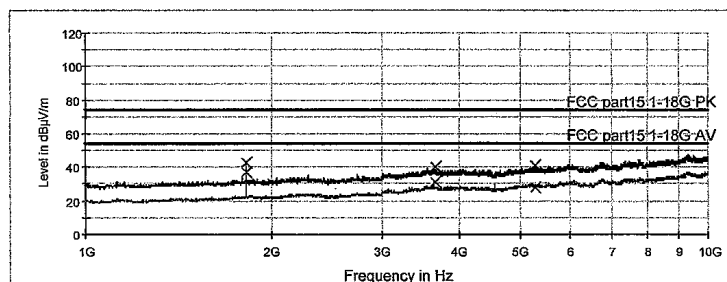
EMC Test Record (Emission)

Common Information

Manufacturer: Uni-art
Test Item: Wireless headphone transmitter
Identification: HP1391
Test Standard: FCC Part 15.209
Test Detail: RE
Operation Mode: Tx @ High Channel
Climate Condition: 23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq: AC120V / 60Hz
Receipt No: 163078118 200
Report No: 17021164 001
Result: Pass
Comment: Test distance is 3m, Vertical

Subrange 1
Frequency Range: 1GHz-10GHz
Receiver: TUV FSP30
Transducer: TUV SAC HF906/ TUV FSP30-TUV SAC HF906

Pre TUV 1 to 18G HF906



Limit and Margin PK

Frequency (MHz)	MaxPeak (dBuV/m)	Corr (dB)	Margin PK (dB)	Limit PK (dBuV/m)	Polarization
1826.000000	42.3	-11.3	31.7	74.0	V
3674.000000	40.4	-4.9	33.6	74.0	V
5281.000000	40.8	-1.9	33.2	74.0	V

Limit and Margin AV

Frequency (MHz)	Average (dBuV/m)	Corr (dB)	Margin AVG (dB)	Limit AVG (dBuV/m)	Polarization
1826.000000	36.4	-11.3	17.6	54.0	V
3674.000000	31.2	-4.9	22.8	54.0	V
5281.000000	27.9	-1.9	26.1	54.0	V

Sign-off Test Data

Date: 6/23/2011 - Time: 9:23:30

Tested by:  Reviewed by: 

Figure 19: Test Plot of Radiated emissions in restricted bands, Mode A.1, Horizontal

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

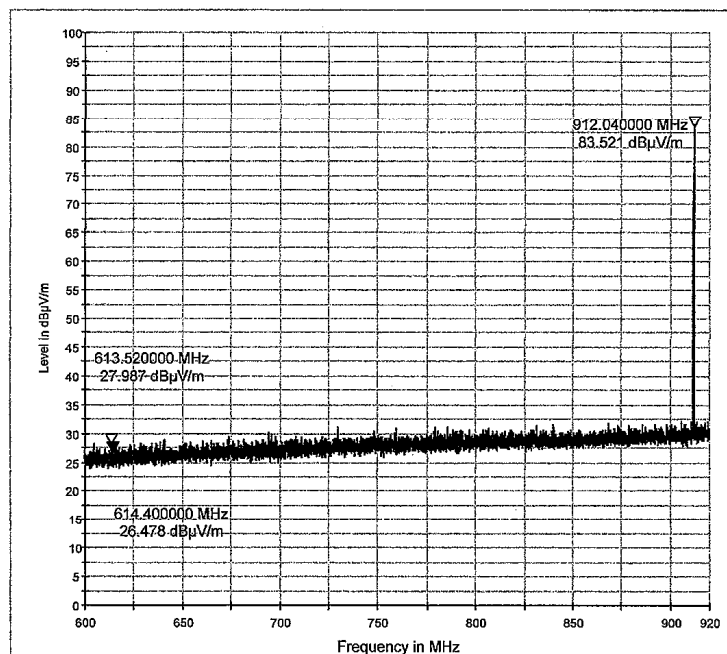
EMC Test Record (Emission)

Common Information

Manufacturer:	Uni-art
Test Item:	Wireless headphone transmitter
Identification:	HP1391
Test Standard:	FCC Part 15.209
Test Detail:	Band edge
Operation Mode:	Tx @ Low Channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC120V / 60Hz
Receipt No:	163078118 200
Report No:	17021164 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	
Frequency Range:	600M-920MHz
Receiver:	TUV ESCI 3
Transducer:	TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Sign-off Test Data

Date: 7/2/2011 - Time: 11:00:05

Tested by:  Reviewed by: _____

Figure 20: Test Plot of Radiated emissions in restricted bands, Mode A.1, Vertical

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

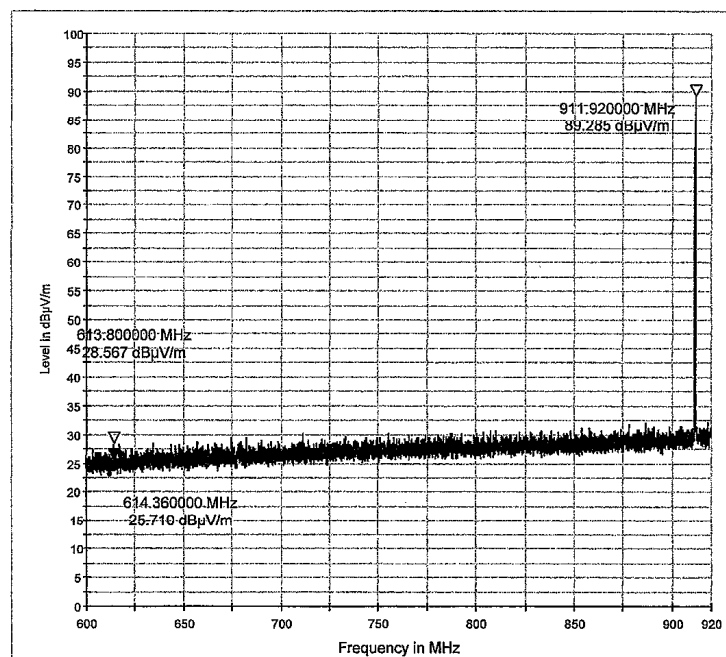
EMC Test Record (Emission)

Common Information

Manufacturer:	Uni-art
Test Item:	Wireless headphone transmitter
Identification:	HP1391
Test Standard:	FCC Part 15.209
Test Detail:	Band edge
Operation Mode:	Tx @ Low Channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC120V / 60Hz
Receipt No:	163078118 200
Report No:	17021164 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	
Frequency Range:	600M-920MHz
Receiver:	TUV ESCI 3
Transducer:	TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Sign-off Test Data

Date: 7/2/2011 - Time: 11:06:39

Tested by:  Reviewed by: _____

Figure 21: Test Plot of Radiated emissions in restricted bands, Mode A.3, Horizontal

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

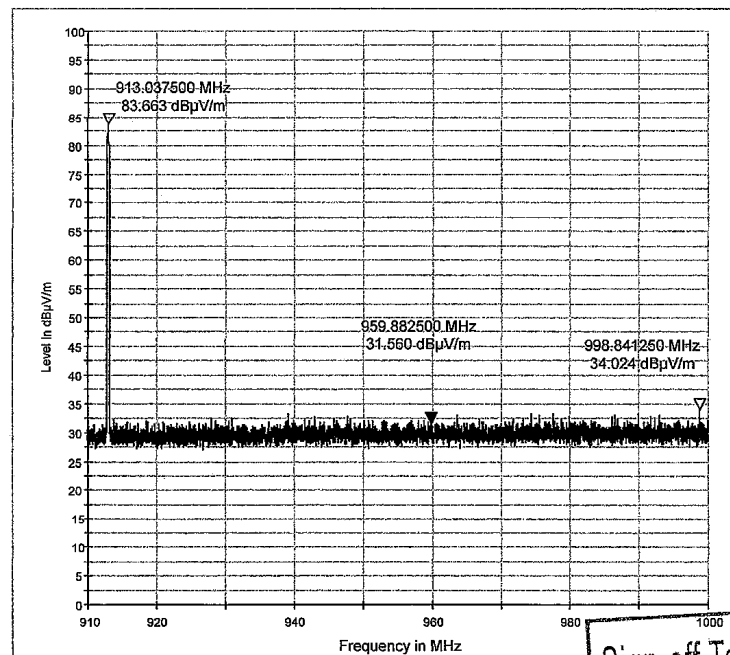
EMC Test Record (Emission)

Common Information

Manufacturer:	Uni-art
Test Item:	Wireless headphone transmitter
Identification:	HP1391
Test Standard:	FCC Part 15.209
Test Detail:	Band edge
Operation Mode:	Tx @ High Channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC120V / 60Hz
Receipt No:	163078118 200
Report No:	17021164 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal

Subrange 1	910M-1000MHz
Frequency Range:	TUV ESCI 3
Receiver:	TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168
Transducer:	

FCC 15.209 30M-1G sweep



Sign-off Test Data

Date: 7/2/2011 - Time: 11:14:58

Tested by:  Reviewed by: _____

Figure 22: Test Plot of Radiated emissions in restricted bands, Mode A.3, Vertical

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

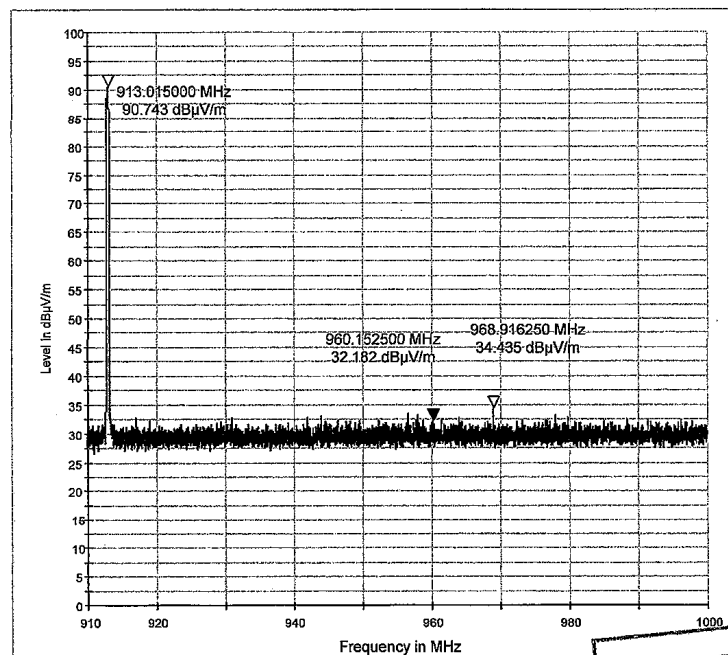
EMC Test Record (Emission)

Common Information

Manufacturer:	Uni-art
Test Item:	Wireless headphone transmitter
Identification:	HP1391
Test Standard:	FCC Part 15.209
Test Detail:	Band edge
Operation Mode:	Tx @ High Channel
Climate Condition:	23 °C; 50 %RH; 101 kPa.
Test Voltage/ Freq:	AC120V / 60Hz
Receipt No:	163078118 200
Report No:	17021164 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	910M-1000MHz
Frequency Range:	TUV ESCI 3
Receiver:	TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168
Transducer:	

FCC 15.209 30M-1G sweep



Sign-off Test Data

Date: 7/2/2011 - Time: 11:11:14

Tested by:  Reviewed by: _____

Figure 23: Test Plot of conducted emissions

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

EMC Test Record (EMISSION)

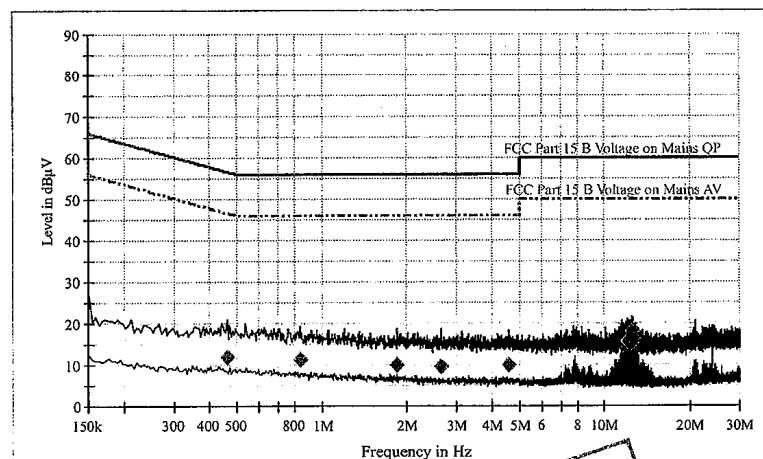
Test Information

Manufacturer: Uni-art
 Test Item: Wireless headphone receiver *transmitter*
 Identification: HP1391
 Test Standard: FCC Part 15
 Test Detail: Conducted Emission
 Operation Mode: A
 Climate Condition: 23 °C; 50 %RH; 101 kPa.
 Test Voltage/ Freq.: AC 120V/ 60 Hz
 Port / Line: AC Mains/L1&N
 Receipt No.: 163078118
 Report No.: 17021164
 Result: Pass
 Comment: /



Hardware Setup: 1phase LISN ESH3-Z5 to ESCI 3
 Level Unit: dB μ V

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



Sign-off Test Data

6/24/2011, 8:02:44 PM

Tested by:  Reviewed by: 

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

Final Result 1

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
0.460500	12.1	1000.0	9.000	L1	10.0	44.6	56.7	
0.834000	11.4	1000.0	9.000	N	10.0	44.6	56.0	
1.851000	10.0	1000.0	9.000	L1	10.1	46.0	56.0	
2.634000	9.6	1000.0	9.000	L1	10.1	46.4	56.0	
4.596000	9.9	1000.0	9.000	N	10.3	46.1	56.0	
12.538500	18.0	1000.0	9.000	L1	10.7	42.0	60.0	

Final Result 2

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)	Comment
12.079500	15.6	1000.0	9.000	L1	10.6	34.4	50.0	
12.210000	15.9	1000.0	9.000	L1	10.6	34.1	50.0	
12.408000	15.9	1000.0	9.000	N	10.7	34.1	50.0	
12.475500	15.4	1000.0	9.000	N	10.8	34.6	50.0	
12.538500	15.7	1000.0	9.000	L1	10.7	34.3	50.0	
12.606000	16.2	1000.0	9.000	L1	10.7	33.8	50.0	

Sign-off Test Data

6/24/2011, 8:02:44 PM

Tested by: _____ Reviewed by: _____



Figure 24: Test Plot of Out of band emission, low channel, Horizontal

TUV Rheinland (Guangdong) Ltd.

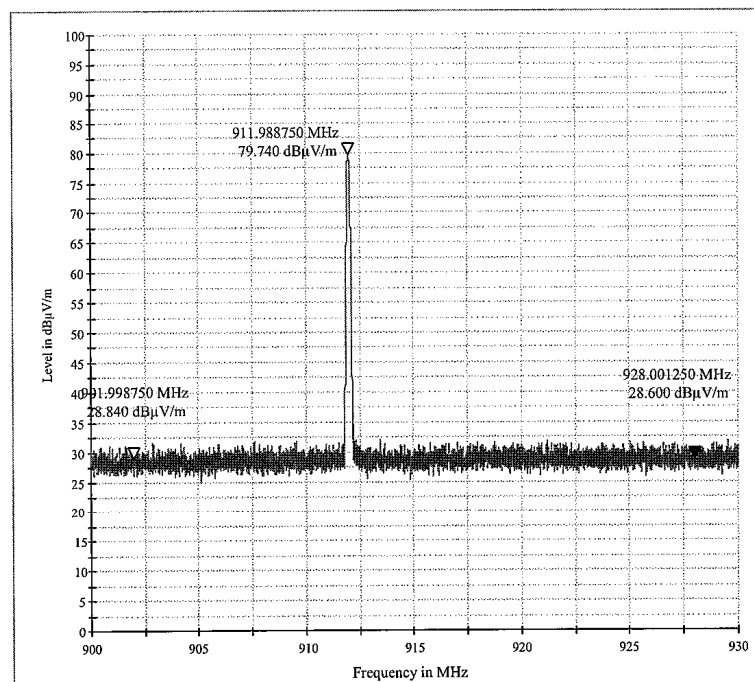
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Uni-art
Test Item:	Wireless headphone transmitter
Identification:	HP1391
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Tx (Low)
Climate Condition:	23 degree, 50 %, 101 kPa
Test Voltage/ Freq:	AC 120V / 60Hz
Receipt No:	163078118 200
Report No:	17021164 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal
Subrange 1	
Frequency Range:	25M-1GHz
Receiver:	TUV ESCI 3
Transducer:	TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Date: 7/4/2011 - Time: 5:18:36

Tested by: _____ Reviewed by: _____

Figure 25: Test Plot of Out of band emission, low channel, Vertical

TUV Rheinland (Guangdong) Ltd.

EMC Test Service Hotline: +86-20-28391188

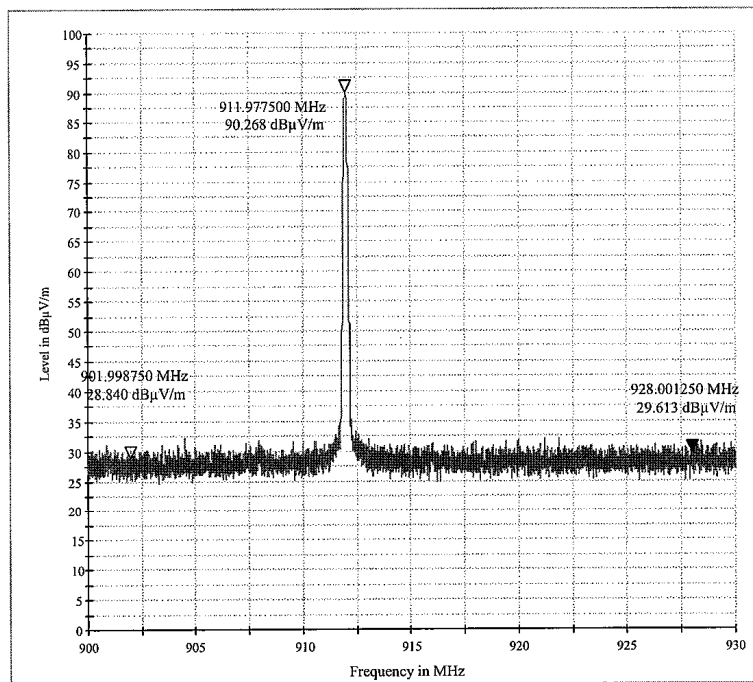
EMC Test Record (Emission)

Common Information

Manufacturer:	Uni-art
Test Item:	Wireless headphone transmitter
Identification:	HP1391
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Tx (Low)
Climate Condition:	23 degree, 50 %, 101 kPa
Test Voltage/ Freq:	AC 120V / 60Hz
Receipt No:	163078118 200
Report No:	17021164 001
Result:	Pass
Comment:	Test distance is 3m, Vertical

Subrange 1	25M-1GHz
Frequency Range:	TUV ESCI 3
Receiver:	TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168
Transducer:	

FCC 15.209 30M-1G sweep



Date: 7/4/2011 - Time: 5:23:41

Tested by: _____ Reviewed by: _____

Figure 26: Test Plot of Out of band emission, high channel, Horizontal

TUV Rheinland (Guangdong) Ltd.

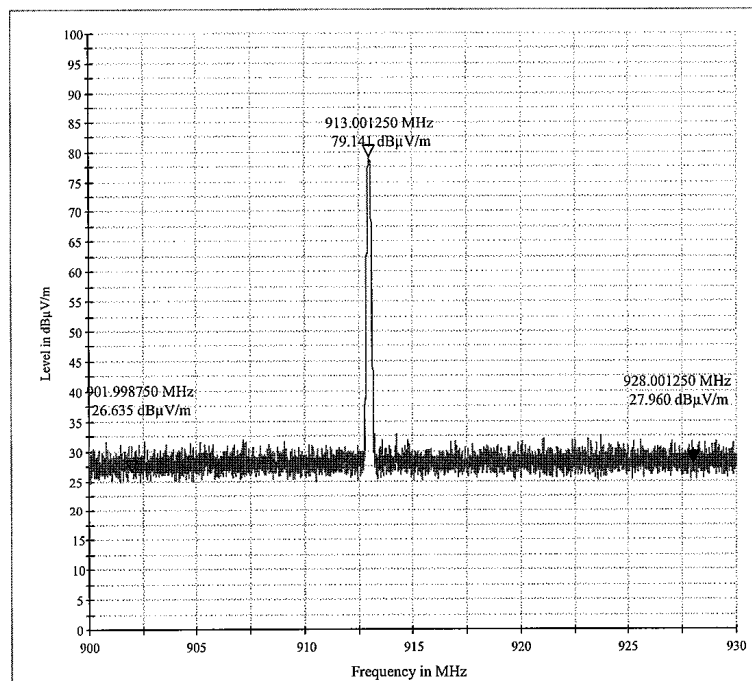
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Uni-art
Test Item:	Wireless headphone transmitter
Identification:	HP1391
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Tx (High)
Climate Condition:	23 degree, 50 %, 101 kPa
Test Voltage/ Freq:	AC 120V / 60Hz
Receipt No:	163078118 200
Report No:	17021164 001
Result:	Pass
Comment:	Test distance is 3m, Horizontal
Subrange 1	
Frequency Range:	25M-1GHz
Receiver:	TUV ESCI 3
Transducer:	TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Date: 7/4/2011 - Time: 5:28:13

Tested by: _____ Reviewed by: _____

Figure 27: Test Plot of Out of band emission, high channel, Vertical

TUV Rheinland (Guangdong) Ltd.

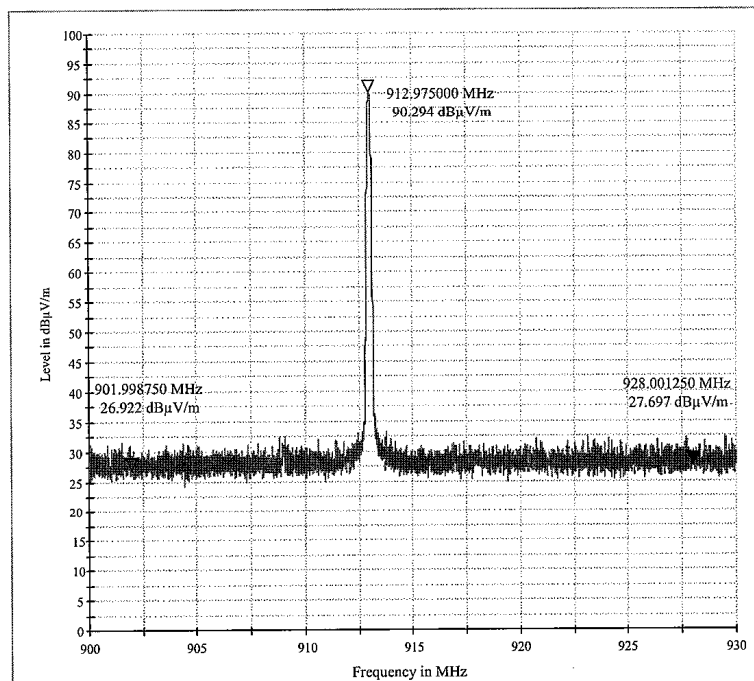
EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	Uni-art
Test Item:	Wireless headphone transmitter
Identification:	HP1391
Test Standard:	FCC Part 15
Test Detail:	RE
Operation Mode:	Tx (High)
Climate Condition:	23 degree, 50 %, 101 kPa
Test Voltage/ Freq:	AC 120V / 60Hz
Receipt No:	163078118 200
Report No:	17021164 001
Result:	Pass
Comment:	Test distance is 3m, Vertical
Subrange 1	
Frequency Range:	25M-1GHz
Receiver:	TUV ESCI 3
Transducer:	TUV SAC UVLB 9168/ TUV ESCI 3-TUV SAC UVLB 9168

FCC 15.209 30M-1G sweep



Date: 7/4/2011 - Time: 5:25:57

Tested by: _____ Reviewed by: _____