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TEST REPORT

CHTEW19080138 Report verification:

Project No.:: SHT1907048508EW

FCC ID: 2ASNSRT28

Applicant's name Shenzhen Retevis Technology Co., Ltd.

Room 700, 7/F, 13-C, Zhonghaixin Science&Technology Park, Address:: No.12 Ganli 6th Road, Jihua Street, Longgang District,

Shenzhen, China

Manufacturer..... Shenzhen Retevis Technology Co., Ltd.

Room 700, 7/F, 13-C, Zhonghaixin Science&Technology Park, Address.....

No.12 Ganli 6th Road, Jihua Street, Longgang District,

Shenzhen, China

Test item description: **Two Way Radio**

Trade Mark....:: **RETEVIS**

Model/Type reference: RT28

Listed Model(s).....: RT28S, RT28P, RT628

FCC CFR Title 47 Part 2 Standard....::

FCC CFR Title 47 Part 95B

Date of receipt of test sample.....: Aug.08, 2019

Date of testing..... Aug.08, 2019-Aug.23, 2019

Date of issue....: Aug.26, 2019

Result: **PASS**

Compiled by

(position+printed name+signature) .: File administrators Echo Wei Echo Wei Zdward pan

Supervised by

(position+printed name+signature) .: Project Engineer Edward Pan

Approved by

(position+printed name+signature) .: RF Manager Hans Hu

Testing Laboratory Name.....: Shenzhen Huatongwei International Inspection Co., Ltd.

1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Address:

Tianliao, Gongming, Shenzhen, China

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The test report merely correspond to the test sample.

Report No.: CHTEW19080138 Page: 2 of 38 Issued: 2019-08-26

Contents

<u>1</u>	TEST STANDARDS AND REPORT VERSION	3
1.1.	Test Standards	3
1.2.	Report revised information	3
2	TEST DESCRIPTION	4
<u>3</u>	SUMMARY	5
3.1	Client Information	5
3.1 3.2	Product Description	5
3.2 3.3	Test frequency list	6
3.4	Operation mode	7
3. 4 3.5	EUT configuration	7
3.3	Eo i comiguration	•
<u>4</u>	TEST ENVIRONMENT	8
4.1	Address of the test laboratory	8
4.2	Test Facility	8
4.3	Environmental conditions	9
4.4	Statement of the measurement uncertainty	9
4.5	Equipments Used during the Test	10
5	TEST CONDITIONS AND RESULTS	11
<u>5</u>	TEST CONDITIONS AND RESULTS	
5.1	Effective Radiated Power(ERP)	11
5.2	99% Occupied Bandwidth & 26dB Bandwidth	13
5.3	Emission Mask	14
5.4	Modulation Limit	15
5.5	Audio Frequency Response	16
5.6	Audio Low Pass Filter Response	18
5.7	Frequency stability VS Temperature	19
5.8	Frequency stability VS Voltage	20
5.9	Transmitter Radiated Spurious Emission	21
5.10	AC Power Line Conducted Emission	25
5.10 5.11	Radiated Emission	28
J. 1 1	Radiated Linission	20
<u>6</u>	TEST SETUP PHOTOS OF THE EUT	31
<u>7</u>	EXTERNAL AND INTERNAL PHOTOS OF THE EUT	34
<u>-</u>		<u> </u>
8	APPENDIX REPORT	38

Report No.: CHTEW19080138 Page: 3 of 38 Issued: 2019-08-26

1 TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

FCC Rules Part 2: Frequency allocations and radio treaty matters; General rules and regulations

FCC Rules Part 95B:PERSONAL RADIO SERVICES-Family Radio Service (FRS)

ANSI C63.26-2015: American National Standard for Compliance Testing of Transmitters Used in Licensed Radio Services

ANSI/TIA-603-E(2016): Land Mobile FM or PM Communications Equipment and Performance Standards FCC Part 15 Subpart B: Unintentional Radiators.

ANSI C63.4-2014: American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz

1.2. Report revised information

Revised No.	Date of issued	Description
N/A	2019-08-26	Original

Report No.: CHTEW19080138 Page: 4 of 38 Issued: 2019-08-26

2 TEST DESCRIPTION

Test Item	Section in CFR 47	Result	Test Engineer
Carrier Output Power(ERP)	Part 95.567 Part 2.1046(a)	Pass	Pan Xie
99% Occupied Bandwidth & 26dB bandwidth	Part 95.573 Part 2.1049	Pass	Bruse.Li
Emission Mask	Part 95.579(a)(1)(2)(3) Part 2.1049	Pass	Bruse.Li
Modulation Limit	Part 95.575 Part 2.1047(b)	Pass	Bruse.Li
Audio Frequency Response	Part 95.575 Part 2.1047(a)	Pass	Bruse.Li
Audio Low Pass Filter Response	Part 95.575 Part 2.1047(a)	Pass	Bruse.Li
Frequency Stability V.S. Temperature	Part 95.565 Part 2.1055	Pass	Bruse.Li
Frequency Stability V.S. Voltage	Part 95.565 Part 2.1055	Pass	Bruse.Li
Transmit Radiated Spurious Emission	Part 95.579(a)(3) Part 2.1053	Pass	Bruse.Li
AC Power Line Conducted Emission	Part 15.107	Pass	Kang Yang
Radiated Emission	Part 15.109	Pass	Pan Xie

Report No.: CHTEW19080138 Page: 5 of 38 Issued: 2019-08-26

3 **SUMMARY**

3.1 Client Information

Applicant:	Shenzhen Retevis Technology Co., Ltd.	
Address: Room 700, 7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 6th Road, Jihua Street, Longgang District, Shenzhen, China		
Manufacturer:	Shenzhen Retevis Technology Co., Ltd.	
Address:	Room 700, 7/F, 13-C, Zhonghaixin Science&Technology Park, No.12 Ganli 6th Road, Jihua Street, Longgang District, Shenzhen, China	

3.2 Product Description

Name of EUT:	Two Way Radio	
Trade mark:	RETEVIS	
Model/Type reference:	RT28	
Listed model(s):	RT28S, RT28P, RT628	
Power supply:	DC 3.7V	
Battery information:	Model: BL28 Voltage: DC 3.7V Capacity: 1000mAh(3.7Wh)	
Model: DSA-5PF07-05 FUS 050100 Adapter information: Input:100-240Va.c.,50/60Hz 0.2A Output:5Vd.c.,1A		
Hardware version:	BF-V1-A21-VER1.4	
Software version: BF-V1-A21-VER1.2		
RF Specification		
Support Frequency Range:	462.5625MHz~ 462.7125MHz	
Support i requericy realige.	462.5500MHz~ 462.7250MHz	
Rated Output Power:	2W	
Modulation Type: FM(Analog)		
Emission Designator: *1	11K0F3E	
Antenna Type:	Integrated antenna	
Antenna Gain:	1.5dBi	

Note:

- (1) *1 According to FCC Part 2.202 requirements, the Necessary Bandwidth is calculated as follows:
 - For FM Voice Modulation

Channel Spacing = 12.5 KHz, D = 2.5 KHz max, K = 1, M = 3 KHz

Bn = 2M + 2DK = 2*3 + 2*2.5*1 = 11 KHz

Emission designation: 11K0F3E

- (2) The device only supports voice communication.
- (3) The device has no gain and vertically polarized antenna.

Report No.: CHTEW19080138 Page: 6 of 38 Issued: 2019-08-26

3.3 Test frequency list

According to ANSI C63.26 section 5.1.2.1:

Measurements of transmitters shall be performed and, if required, reported for each frequency band in which the EUT can be operated with the device transmitting at the number of frequencies in each band specified in Table 2.

Frequency range over which EUT operates	Number of frequencies	Location in frequency range of operation	
1 MHz or less	1	Middle	
1 MHz to 10 MHz	2	1 near top and 1 near bottom	
More than 10 MHz	3	1 near top, 1 near middle, and 1 near bottom	

Frequency Bands (MHz)	Test Channel	Test Frequency (MHz)
462.5625~462.7125	CH _{M1}	462.6375(CH4)
462.5500~462.7250	CH _{M2}	462.6500(CH12)

Operational channel frequency table:

Operational charmer freque	Operational charmer frequency table.				
Channel No.	Center frequency (MHz)	Channel No.	Center frequency (MHz)		
1	462.5625	12	462.6500		
2	462.5875	13	462.5750		
3	462.6125	14	462.7000		
4	462.6375	15	462.7250		
5	462.6625	16			
6	462.6875	17			
7	462.7125	18			
8	462.5500	19			
9	462.5750	20			
10	462.6000	21			
11	462.6250	22			

Report No.: CHTEW19080138 Page: 7 of 38 Issued: 2019-08-26

3.4 Operation mode

Test mode	Transmitting	Receiving	FRS
TX-FRS			
RX-FRS			

Note: ■ is operation mode.

Modulation Type	Description	
UM	Un-modulation	
AM2	Apply a 1000 Hz tone and adjust the audio frequency generator to produce 20% of the rated system deviation.	
AM6	Apply a 1000 Hz modulating signal to the transmitter from the audio frequency generator, and adjust the level to obtain 60% of full rated system deviation, then increase the level from the audio generator by 20 dB	
AM5	Modulate the transmitter with a 2500 Hz sine wave at an input level 16 dB greater than that necessary to produce 50% of rated system deviation.	

Test item	Modulation Type	Test mode
Output Power(ERP)	UM	TX-FRS
99% Occupied Bandwidth & 26dB bandwidth	AM6	TX-FRS
Emission Mask	AM5	TX-FRS
Modulation Limit	AM6	TX-FRS
Audio Frequency Response	AM2	TX-FRS
Audio Low Pass Filter Response	AM2	TX-FRS
Frequency Stability VS Temperature	UM	TX-FRS
Frequency Stability VS Voltage	UM	TX-FRS
Transmit Radiated Spurious Emission	AM5	TX-FRS
AC Power Line Conducted Emission	-	RX-FRS
Radiated Emission	-	RX-FRS

3.5 EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

- - supplied by the manufacturer
- o supplied by the lab

•	Power Cable	Length (m):	/
		Shield :	/
		Detachable :	/
0	Multimeter	Manufacturer :	/
		Model No. :	/

Report No.: CHTEW19080138 Page: 8 of 38 Issued: 2019-08-26

4 TEST ENVIRONMENT

4.1 Address of the test laboratory

Laboratory: Shenzhen Huatongwei International Inspection Co., Ltd.

Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China

4.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 762235.

IC-Registration No.: 5377A

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377A.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

Report No.: CHTEW19080138 Page: 9 of 38 Issued: 2019-08-26

4.3 Environmental conditions

Atmospheric Contions					
Temperature:	21°C to 25°C				
Relative Humidity:	20 % to 75 %.				
Atmospheric Pressure:	860 mbar to 1060 mbar				
Norminal Test Voltage:	V _N = DC 3.70V				
Extrem Test Voltage @115%V _N :	V _H = DC 4.26V				
Extrem Test Voltage @85%V _N :	V _L = DC 3.15V				

4.4 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Huatongwei laboratory is reported:

Test Items	Measurement Uncertainty	Notes
Frequency stability & Occupied Bandwidth	15Hz for <1GHz 70Hz for >1GHz	(1)
Conducted Output Power	0.51dB	(1)
ERP / EIRP / RSE	2.66dB for <1GHz 3.44dB for >1GHz	(1)
Conducted Emission 9KHz-30MHz	3.02dB	(1)
Radiated Emission 30~1000MHz	4.90dB	(1)
Radiated Emission 1~18GHz	4.96dB	(1)
FM deviation	25 Hz	(1)
Audio level	0.62 dB	(1)
Low Pass Filter Response	0.76 dB	(1)
Modulation Limiting	0.42 %	(1)

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Report No.: CHTEW19080138 Page: 10 of 38 Issued: 2019-08-26

4.5 Equipments Used during the Test

•	TS8613 Test system							
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)		
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2018/09/29	2019/09/28		
•	Signal & Spectrum Analyzer	R&S	FSW26	103440	2018/10/28	2019/10/27		
•	RF Communication Test Set	HP	8920A	3813A10206	2018/10/28	2019/10/27		
•	Digital intercom communication tester	Aeroflex	3920B	1001682041	2018/10/28	2019/10/27		
•	Signal Generator	R&S	SML02	100507	2018/10/27	2019/10/26		
•	Signal Generator	IFR	2032	203002\100	2018/11/11	2019/11/10		
•	RF Control Unit	Tonscend	JS0806-2	N/A	N/A	N/A		
0	Fliter-VHF	Microwave	N26460M1	498702	2019/03/19	2020/03/18		
•	Fliter-UHF	Microwave	N25155M2	498704	2019/03/19	2020/03/18		
0	Power Divider	Microwave	OPD1040-N-4	N/A	2018/11/15	2019/11/14		
0	Attenuator	JFW	50FH-030-100	N/A	2018/11/15	2019/11/14		
0	Attenuator	JFW	50-A-MFN-20	0322	2018/11/15	2019/11/14		
•	Test software	HTW	Radio ATE	N/A	N/A	N/A		

•	Auxiliary Equipment							
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)		
•	Climate chamber	ESPEC	GPL-2	N/A	2018/11/08	2019/11/07		
•	DC Power Supply	Gwinstek	SPS-2415	GER835793	2018/10/28	2019/10/27		

•	Radiated Spurio	us Emission				
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	SAC-3m-01	N/A	2018/09/30	2021/09/29
•	Spectrum Analyzer	R&S	FSP40	100597	2018/10/27	2019/10/26
•	Loop Antenna	R&S	HFH2-Z2	100020	2017/11/20	2020/11/19
•	Ultra-Broadband Antenna	SCHWARZBECK	VULB9163	538	2017/04/05	2020/04/04
•	Horn Antenna	SCHWARZBECK	9120D	1011	2017/04/01	2020/03/31
0	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2017/03/27	2020/03/26
0	Pre-amplifier	BONN	BLWA0160-2M	1811887	2018/11/14	2019/11/13
•	Pre-amplifier	CD	PAP-0102	12004	2018/11/14	2019/11/13
•	Broadband Preamplifier	SCHWARZBECK	BBV 9718	9718-248	2019/05/23	2020/05/22
•	RF Connection Cable	HUBER+SUHNER	RE-7-FH	N/A	2018/11/15	2019/11/14
•	RF Connection Cable	HUBER+SUHNER	RE-7-FL	N/A	2018/11/15	2019/11/14
•	EMI Test Software	Audix	E3	N/A	N/A	N/A
•	Turntable	MATURO	TT2.0	N/A	N/A	N/A
•	Antenna Mast	MATURO	TAM-4.0-P	N/A	N/A	N/A

Report No.: CHTEW19080138 Page: 11 of 38 Issued: 2019-08-26

5 TEST CONDITIONS AND RESULTS

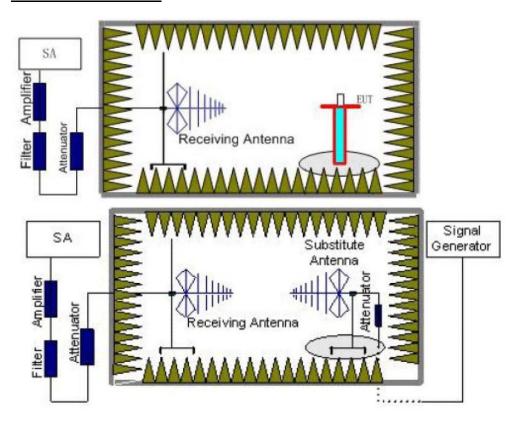
5.1 Effective Radiated Power(ERP)

LIMIT

FCC Part FCC Part 95.567, FCC Part 2.1046

Each FRS transmitter type must be designed such that the effective radiated power (ERP) on channels 8 through 14 does not exceed 0.5 Watts and the ERP on channels 1 through 7 and 15 through 22 does not exceed 2.0 Watts. The radio shall be equipped with an integral antenna.

TEST CONFIGURATION



TEST PROCEDURE

- Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases
 where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to
 maximize emissions levels.
- 3. The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- 4. Receiver or Spectrum set as follow:
 - Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency

Report No.: CHTEW19080138 Page: 12 of 38 Issued: 2019-08-26

6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.

- 7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation: Pe = Ps(dBm) cable loss (dB) + antenna gain (dBd)

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

- 13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:
 - gain (dBd) = gain (dBi) 2.15 dB.
 - If necessary, the antenna gain can be calculated from calibrated antenna factor information
- 14. Provide the complete measurement results as a part of the test report.

TEST MODE

Please reference to the section 3.4

TEST RESULTS

□ Passed

Please	refer to	appendix	A on th	e section	8 appendix	report

■ Not Applicable

Report No.: CHTEW19080138 Page: 13 of 38 Issued: 2019-08-26

5.2 99% Occupied Bandwidth & 26dB Bandwidth

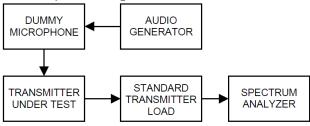
LIMIT

FCC Part 95.573, FCC Part 2.1049

Each FRS transmitter type must be designed such that the occupied bandwidth does not exceed 12.5 kHz.

TEST CONFIGURATION

Test setup for Analog:



TEST PROCEDURE

- (1) Connect the equipment as illustrated
- (2) Spectrum set as follow:

Centre frequency = the nominal EUT channel center frequency,

The frequency span for the spectrum analyzer shall be set wide enough to capture all modulation products including the emission skirts (typically a span of 1.5 x OBW is sufficient)

RBW = 1% to 5% of the anticipated OBW, VBW ≥ 3 × RBW, Sweep = auto,

Detector function = peak, Trace = max hold

- (3) Set 99% Occupied Bandwidth and 26dB Bandwidth
- (4) Measure and record the results in the test report.

TEST MODE

Please reference to the section 3.4

TEST RESULTS

Please refer to appendix B on the section 8 appendix report

Report No.: CHTEW19080138 Page: 14 of 38 Issued: 2019-08-26

5.3 Emission Mask

LIMIT

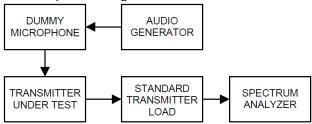
FCC Part 95.579(a)(1)(2)(3),FCC Part 2.1049

Each FRS transmitter type must be designed to satisfy the applicable unwanted emissions limits in this paragraph.

- (a) Attenuation requirements. The power of unwanted emissions must be attenuated below the carrier power output in Watts (P) by at least:
- (1) 25 dB (decibels) in the frequency band 6.25 kHz to 12.5 kHz removed from the channel center frequency.
- (2) 35 dB in the frequency band 12.5 kHz to 31.25 kHz removed from the channel center frequency.
- (3) 43 +10 log (P) dB in any frequency band removed from the channel center frequency by more than 31.25 kHz.

TEST CONFIGURATION

Test setup for Analog:



TEST PROCEDURE

- 1) Connect the equipment as illustrated.
- 2) Spectrum set as follow:

Centre frequency = fundamental frequency, span=120kHz for 12.5kHz channel spacing,

RBW=100Hz, VBW=1000Hz, Sweep = auto,

Detector function = peak, Trace = max hold

- 3) Key the transmitter, and set the level of the unmodulated carrier to a full scale reference line. This is the 0dB reference for the measurement.
- 4) Apply Input Modulation Signal to EUT according to Section 3.4
- 5) Measure and record the results in the test report.

TEST MODE

Please reference to the section 3.4

TEST RESULTS

Please refer to appendix C on the section 8 appendix report

Report No.: CHTEW19080138 Page: 15 of 38 Issued: 2019-08-26

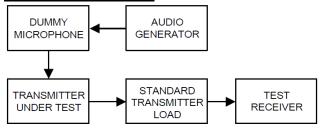
5.4 Modulation Limit

LIMIT

FCC Part 95.575, FCC Part 2.1047(b)

Each FRS transmitter type must be designed such that the peak frequency deviation does not exceed 2.5 kHz, and the highest audio frequency contributing substantially to modulation must not exceed 3.125 kHz.

TEST CONFIGURATION



TEST PROCEDURE

- Connect the equipment as illustrated.
- Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- Set the test receiver to measure peak positive deviation. Set the audio bandwidth for ≤0.25 Hz to ≥15,000 Hz. Turn the de-emphasis function off.
- Apply Input Modulation Signal to EUT according to Section 3.4 and vary the input level from –20 to +20dB.
- 5) Measure both the instantaneous and steady-state deviation at and after the time of increasing the audio input level
- 6) Repeat step 4-5 with input frequency changing to 300Hz, 1004Hz, 1500Hz and 2500Hz in sequence.

TEST MODE

Please reference to the section 3.4

TEST RESULTS

□ Passed □ Not Applicable

Please refer to appendix D on the section 8 appendix report

Report No.: CHTEW19080138 Page: 16 of 38 Issued: 2019-08-26

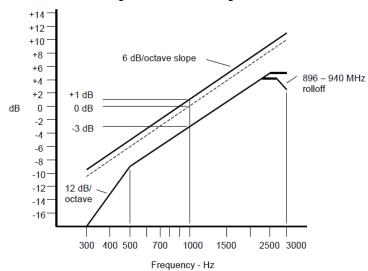
5.5 Audio Frequency Response

LIMIT

FCC Part 95.575),FCC Part 2.1047(a):

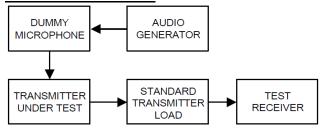
Each FRS transmitter type must be designed such that the peak frequency deviation does not exceed 2.5 kHz, and the highest audio frequency contributing substantially to modulation must not exceed 3.125 kHz.

Voice modulated communication equipment. A curve or equivalent data showing the frequency response of the audio modulating circuit over a range of 100 to 5000 Hz shall be submitted.



An additional 6 dB per octave attenuation is allowed from 2500 Hz to 3000 Hz in equipment operating in the 25 MHz to 869 MHz range.

TEST CONFIGURATION



TEST PROCEDURE

- 1) Connect the equipment as illustrated.
- 2) Set the test receiver to measure peak positive deviation. Set the audio bandwidth for 50 Hz to 15,000 Hz. Turn the de-emphasis function off.
- 3) Set the DMM to measure rms voltage.
- 4) Adjust the transmitter per the manufacturer's procedure for full rated system deviation.
- 5) Apply Input Modulation Signal to EUT according to Section 3.4
- 6) Set the test receiver to measure rms deviation and record the deviation reading.
- 7) Record the DMM reading as V_{REF} .
- 8) Set the audio frequency generator to the desired test frequency between 300 Hz and 3000 Hz.
- Vary the audio frequency generator output level until the deviation reading that was recorded in step 6) is obtained.
- 10) Record the DMM reading as V_{FREQ}
- 11) Calculate the audio frequency response at the present frequency as: audio frequency response=20log₁₀ (V_{FREQ}/V_{REF}).
- 12) Repeat steps 8) through 11) for all the desired test frequencies

Report No.: CHTEW19080138 Page: 17 of 38 Issued: 2019-08-26 TEST MODE Please reference to the section 3.4 **TEST RESULTS ⊠** Passed ■ Not Applicable Please refer to appendix E on the section 8 appendix report

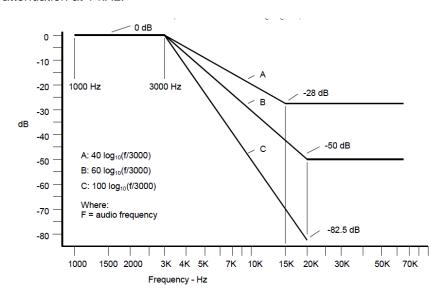
Report No.: CHTEW19080138 Page: 18 of 38 Issued: 2019-08-26

5.6 Audio Low Pass Filter Response

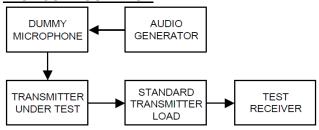
LIMIT

FCC Part 95.575),FCC Part 2.1047(a):

The filter must be between the modulation limiter and the modulated stage of the transmitter. At any frequency (f in kHz) between 3 and 20 kHz, the filter must have an attenuation of at least 60 log10 (f/3) dB greater than the attenuation at 1 kHz. Above 20 kHz, it must have an attenuation of at least 50 dB greater than the attenuation at 1 kHz.



TEST CONFIGURATION



TEST PROCEDURE

- 1) Configure the EUT as shown in figure .
- Apply a 1000 Hz tone from the audio signal generator and adjust the level per manufacturer's specifications. Record the dB level of the 1000 Hz tone as LEV_{REF}.
- Set the audio signal generator to the desired test frequency between 3000 Hz and the upper low pass filter limit. Record the dB level at the test frequency as LEV_{FREQ}.
- 4) Calculate the audio frequency response at the test frequency as: low pass filter response = LEV_{FREQ} LEV_{REF}

TEST MODE

Please reference to the section 3.4

TEST RESULTS

Please refer to appendix F on the section 8 appendix report

Report No.: CHTEW19080138 Page: 19 of 38 Issued: 2019-08-26

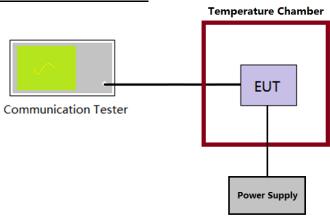
5.7 Frequency stability VS Temperature

LIMIT

FCC Part 95.565:

Each FRS transmitter type must be designed such that the carrier frequencies remain within ±2.5 parts-permillion of the channel center frequencies specified in §95.563 during normal operating conditions.

TEST CONFIGURATION



TEST PROCEDURE

- 1) The EUT output port was connected to communication tester.
- 2) The EUT was placed inside the temperature chamber.
- 3) Turn EUT off and set the chamber temperature to -30° C. After the temperature stabilized for approximately 30 minutes recorded the frequency as MCF_{MHz} .
- 4) Calculate the ppm frequency error by the following: ppm error=(MCF_{MHZ}/ACF_{MHZ}-1)*10⁶ where MCF_{MHz} is the Measured Carrier Frequency in MHz ACF_{MHz} is the Assigned Carrier Frequency in MHz
- 5) Repeat step 3 measure with 10°C increased per stage until the highest temperature of +50°C reached.

TEST MODE

Please reference to the section 3.4

TEST RESULTS

Please refer to appendix G on the section 8 appendix report

Report No.: CHTEW19080138 Page: 20 of 38 Issued: 2019-08-26

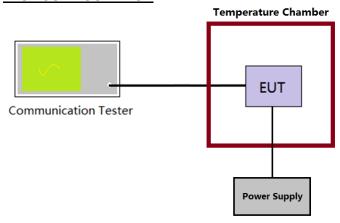
5.8 Frequency stability VS Voltage

LIMIT

FCC Part 95.565:

Each FRS transmitter type must be designed such that the carrier frequencies remain within ±2.5 parts-permillion of the channel center frequencies specified in §95.563 during normal operating conditions.

TEST CONFIGURATION



TEST PROCEDURE

- 1) The EUT output port was connected to communication tester.
- 2) The EUT was placed inside the temperature chamber at 25°C
- 3) Record the carrier frequency of the transmitter as MCF_{MHZ}
- 4) Calculate the ppm frequency error by the following: ppm error=(MCF_{MHZ}/ACF_{MHZ}-1)*10⁶ where MCF_{MHz} is the Measured Carrier Frequency in MHz ACF_{MHz} is the Assigned Carrier Frequency in MHz
- 5) Repeat step 3 measure with varied ±15% of the nominal value measured at the input to the EUT

TEST MODE

Please reference to the section 3.4

TEST RESULTS

Please refer to appendix H on the section 8 appendix report

Report No.: CHTEW19080138 Page: 21 of 38 Issued: 2019-08-26

5.9 Transmitter Radiated Spurious Emission

LIMIT

FCC Part 95.579(a)(3):

43 + 10 log (Pwatts)

Calculation: Limit (dBm) =EL-43-10log10 (TP)

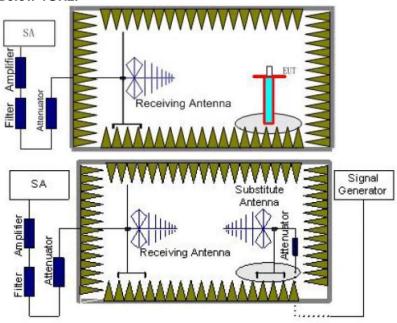
Notes: EL is the emission level of the Output Power expressed in dBm,

In this application, the EL is P(dBm).

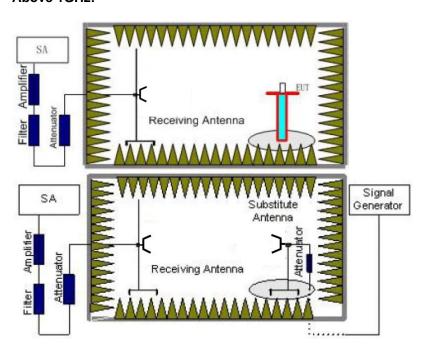
Limit (dBm) = P(dBm)-43-10 log (Pwatts) = -13 dBm

TEST CONFIGURATION

Below 1GHz:



Above 1GHz:



Report No.: CHTEW19080138 Page: 22 of 38 Issued: 2019-08-26

TEST PROCEDURE

- Place the EUT in the center of the turntable.
 - a) For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table at a nominal height of 80 cm above the reference ground plane
 - b) For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table at a nominal height of 1.5 m above the ground plane.
- Unless the EUT uses an integral antenna, the EUT shall be terminated with a non-radiating transmitter load. In cases
 where the EUT uses an adjustable antenna, the antenna shall be adjusted through typical positions and lengths to
 maximize emissions levels.
- The EUT shall be tested while operating on the frequency per manufacturer specification. Set the transmitter to operate in continuous transmit mode.
- 4. Receiver or Spectrum set as follow:
 - Below 1GHz, RBW=100kHz, VBW=300kHz, Detector=Peak, Sweep time=Auto Above 1GHz, RBW=1MHz, VBW=3MHz, Detector=Peck, Sweep time=Auto
- 5. Each emission under consideration shall be evaluated:
 - a) Raise and lower the measurement antenna from 1 m to 4 m, as necessary to enable detection of the maximum emission amplitude relative to measurement antenna height.
 - b) Rotate the EUT through 360° to determine the maximum emission level relative to the axial position.
 - c) Return the turntable to the azimuth where the highest emission amplitude level was observed.
 - d) Vary the measurement antenna height again through 1 m to 4 m again to find the height associated with the maximum emission amplitude.
 - e) Record the measured emission amplitude level and frequency
- 6. Repeat step 5 for each emission frequency with the measurement antenna oriented in both the horizontal and vertical polarizations to determine the orientation that gives the maximum emissions amplitude.
- 7. Set-up the substitution measurement with the reference point of the substitution antenna located as near as possible to where the center of the EUT radiating element was located during the initial EUT measurement.
- 8. Maintain the previous measurement instrument settings and test set-up, with the exception that the EUT is removed and replaced by the substitution antenna.
- 9. Connect a signal generator to the substitution antenna; locate the signal generator so as to minimize any potential influences on the measurement results. Set the signal generator to the frequency where emissions are detected, and set an output power level such that the radiated signal can be detected by the measurement instrument, with sufficient dynamic range relative to the noise floor.
- 10. For each emission that was detected and measured in the initial test
 - a) Vary the measurement antenna height between 1 m to 4 m to maximize the received (measured) signal amplitude.
 - b) Adjust the signal generator output power level until the amplitude detected by the measurement instrument equals the amplitude level of the emission previously measured directly in step 5 and step 6.
 - c) Record the output power level of the signal generator when equivalence is achieved in step b).
- 11. Repeat step 8 through step 10 with the measurement antenna oriented in the opposite polarization.
- 12. Calculate the emission power in dBm referenced to a half-wave dipole using the following equation:

Pe = Ps(dBm) - cable loss (dB) + antenna gain (dBd)

where

Pe = equivalent emission power in dBm

Ps = source (signal generator) power in dBm

NOTE—dBd refers to the measured antenna gain in decibels relative to a half-wave dipole.

13. Correct the antenna gain of the substitution antenna if necessary to reference the emission power to a half-wave dipole. When using measurement antennas with the gain specified in dBi, the equivalent dipole-referenced gain can be determined from:

gain (dBd) = gain (dBi) - 2.15 dB.

If necessary, the antenna gain can be calculated from calibrated antenna factor information

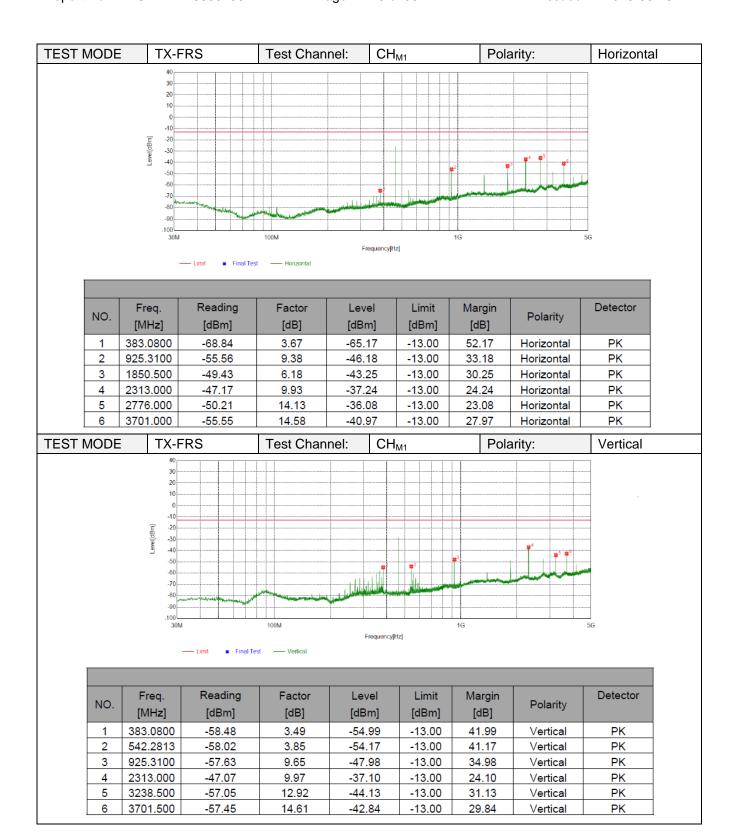
14. Provide the complete measurement results as a part of the test report.

TEST MODE

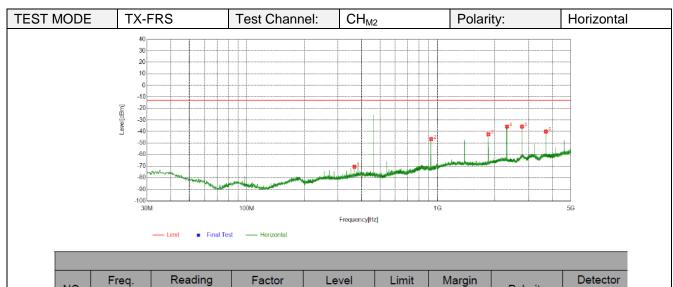
Please	reference	to the	section	3 4
riease	reference	io ine	Section	J.4

TEST RESULTS

 Report No.: CHTEW19080138 Page: 23 of 38 Issued: 2019-08-26



Report No.: CHTEW19080138 Page: 24 of 38 Issued: 2019-08-26



NO.	Freq.	Reading	Factor	Level	Limit	Margin	Polarity	Detector
NO.	[MHz]	[dBm]	[dB]	[dBm]	[dBm]	[dB]	Polarity	
1	367.0750	-73.67	3.03	-70.64	-13.00	57.64	Horizontal	PK
2	925.4313	-56.07	9.38	-46.69	-13.00	33.69	Horizontal	PK
3	1850.500	-48.70	6.18	-42.52	-13.00	29.52	Horizontal	PK
4	2313.500	-45.74	9.93	-35.81	-13.00	22.81	Horizontal	PK
5	2776.000	-49.95	14.13	-35.82	-13.00	22.82	Horizontal	PK
6	3701.000	-54.66	14.58	-40.08	-13.00	27.08	Horizontal	PK

	1				
TEST MODE	TX-FRS	Test Channel:	CH _{M2}	Polarity:	Vertical
	40 30 20 10 -10 -20 -30 -40 -50 -60 -70 -90 -100 30M	100M	Trequency[Hz]		166
1					

NO	Freq.	Reading	Factor	Level	Limit	Margin	Dolovitu	Detector
NO.	[MHz]	[dBm]	[dB]	[dBm]	[dBm]	[dB]	Polarity	
1	383.0800	-59.59	3.49	-56.10	-13.00	43.10	Vertical	PK
2	542.2813	-59.00	3.85	-55.15	-13.00	42.15	Vertical	PK
3	925.4313	-58.00	9.65	-48.35	-13.00	35.35	Vertical	PK
4	1850.500	-51.46	5.78	-45.68	-13.00	32.68	Vertical	PK
5	2313.500	-44.30	9.97	-34.33	-13.00	21.33	Vertical	PK
6	3238.500	-56.04	12.92	-43.12	-13.00	30.12	Vertical	PK

Report No.: CHTEW19080138 Page: 25 of 38 Issued: 2019-08-26

5.10 AC Power Line Conducted Emission

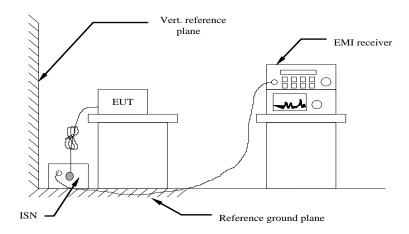
The frequency spectrum from 0.15 MHz to 30 MHz was investigated. The LISN used was 50 ohm / 50 u Henry as specified by section 5.1 of ANSI C63.4. Cables and peripherals were moved to find the maximum emission levels for each frequency.

Limit

FCC part 15.107(a)

	Conducted limit (dBµV)		
Frequency of emission (MHz)	Quasi-peak	Average	
0.15-0.5	66 to 56*	56 to 46*	
0.5-5	56	46	
5-30	60	50	

TEST CONFIGURATION



TEST PROCEDURE

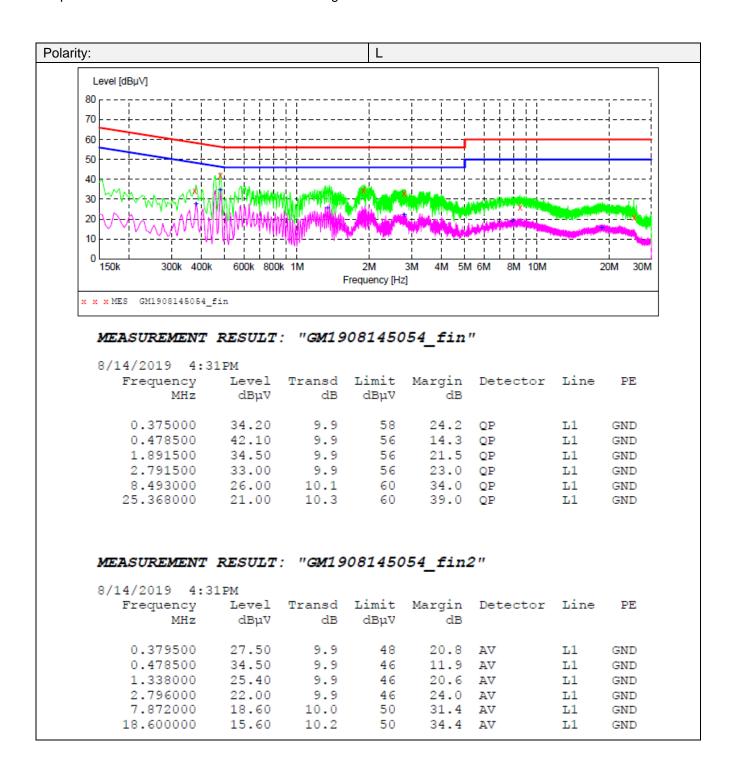
- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system; a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4
- 2 Support equipment, if needed, was placed as per ANSI C63.4
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4 If a EUT received AC120V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

TEST MODE

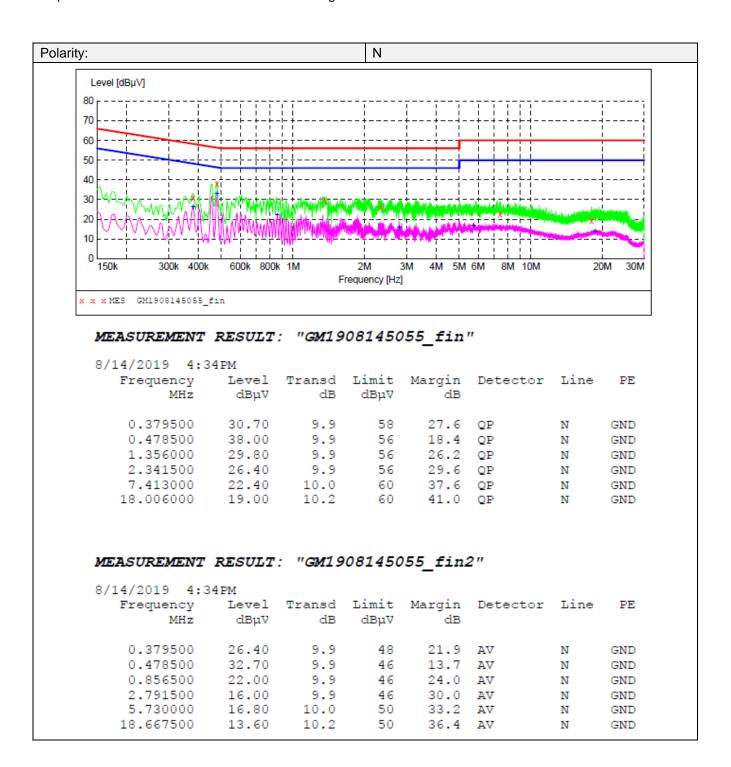
Please reference to the section 3.4

TEST RESULTS

 Report No.: CHTEW19080138 Page: 26 of 38 Issued: 2019-08-26



Report No.: CHTEW19080138 Page: 27 of 38 Issued: 2019-08-26



Report No.: CHTEW19080138 Page: 28 of 38 Issued: 2019-08-26

5.11 Radiated Emission

LIMIT

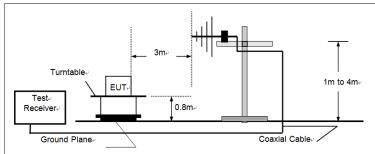
For unintentional device, according to § 15.109(a) except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of emission (MHz)	Field strength (microvolts/meter)
30-88	10
88-216	19
216-960	20
Above 960	50

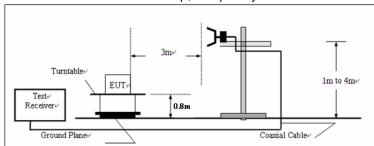
For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emissions from intentional radiators at a distance of 3 meters shall not exceed the above table.

TEST CONFIGURATION

(A) Radiated Emission Test Set-Up, Frequency below 1000MHz



(B) Radiated Emission Test Set-Up, Frequency above 1000MHz



TEST PROCEDURE

- 1 The EUT was placed on a turn table which is 0.8m above ground plane.
- 2 Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0°C to 360°C to acquire the highest emissions from EUT
- 3 And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4 Repeat above procedures until all frequency measurements have been completed.

TEST MODE

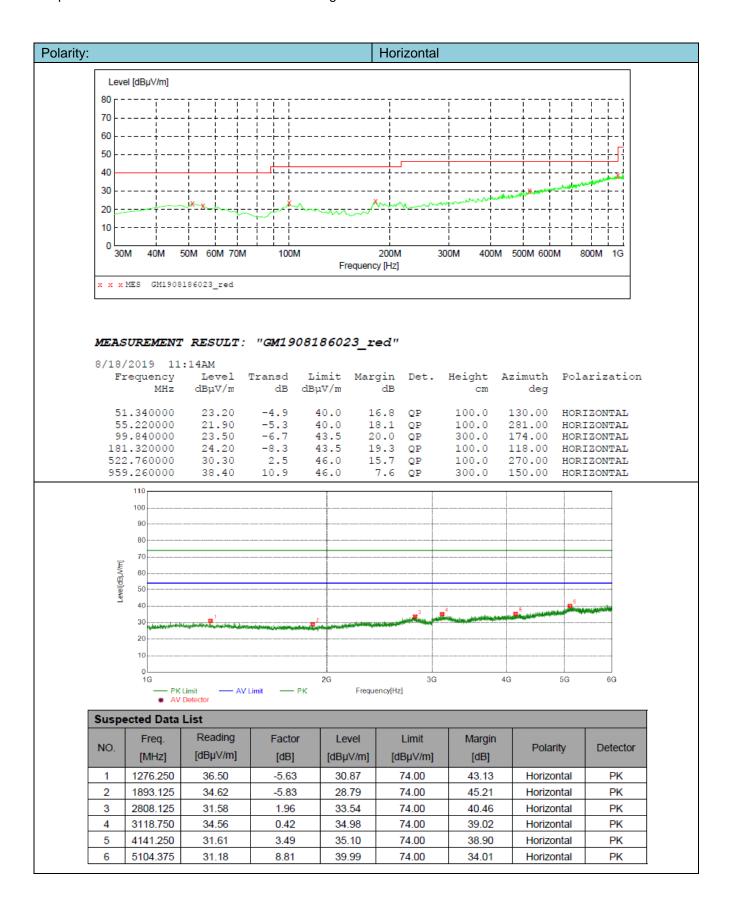
Please reference to the section 3.4

TEST RESULTS

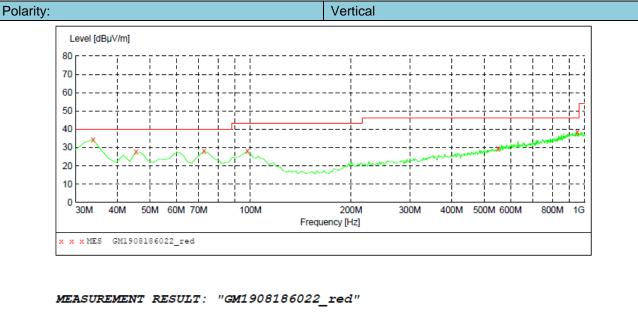
Note:

The EUT shall be scanned from 30 MHz to the 5th harmonic of the highest oscillator frequency in the digital devices or 1 GHz whichever is higher.

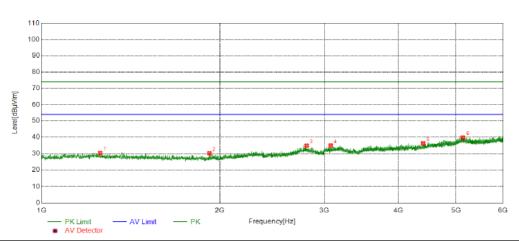
Report No.: CHTEW19080138 Page: 29 of 38 Issued: 2019-08-26



Report No.: CHTEW19080138 Page: 30 of 38 Issued: 2019-08-26



8/18/2019 11: Frequency MHz	:09AM Level dBµV/m	Transd dB	Limit dBµV/m	Margin dB	Det.	Height cm	Azimuth deg	Polarization
33.880000	34.30	-8.7	40.0	5.7	QP	100.0	129.00	VERTICAL
45.520000	27.90	-4.9	40.0	12.1	QP	100.0	350.00	VERTICAL
72.680000	28.20	-10.2	40.0	11.8	QP	100.0	157.00	VERTICAL
97.900000	28.00	-6.9	43.5	15.5	QP	100.0	88.00	VERTICAL
549.920000	29.60	3.0	46.0	16.4	QP	100.0	251.00	VERTICAL
949.560000	38.50	10.8	46.0	7.5	QP	100.0	170.00	VERTICAL



Susp	Suspected Data List									
NO.	Freq.	Reading	Factor	Level	Limit	Margin	Dalasik	Detector		
	[MHz]	[dBµV/m]	[dB]	[dBµV/m]	[dBµV/m]	[dB]	Polarity			
1	1256.250	35.98	-5.68	30.30	74.00	43.70	Vertical	PK		
2	1920.000	35.75	-5.60	30.15	74.00	43.85	Vertical	PK		
3	2800.000	32.78	2.09	34.87	74.00	39.13	Vertical	PK		
4	3074.375	34.72	0.21	34.93	74.00	39.07	Vertical	PK		
5	4403.750	31.20	4.94	36.14	74.00	37.86	Vertical	PK		
6	5133.750	30.96	8.86	39.82	74.00	34.18	Vertical	PK		

Report No.: CHTEW19080138 Page: 31 of 38 Issued: 2019-08-26

6 TEST SETUP PHOTOS OF THE EUT

Transmitter Radiated Spurious Emission:



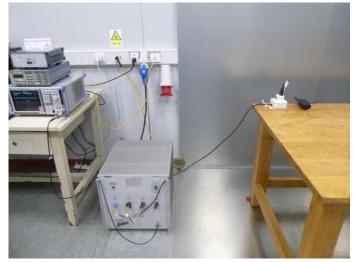
Frequency Stability:





Report No.: CHTEW19080138 Page: 32 of 38 Issued: 2019-08-26

AC Power Line Conducted Emission:

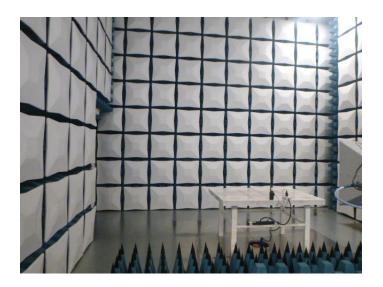


Radiated Emission:





Report No.: CHTEW19080138 Page: 33 of 38 Issued: 2019-08-26



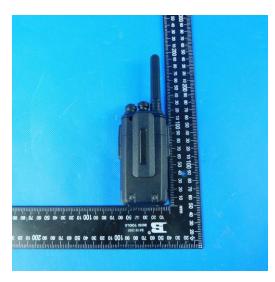
Report No.: CHTEW19080138 Page: 34 of 38 Issued: 2019-08-26

7 EXTERNAL AND INTERNAL PHOTOS OF THE EUT

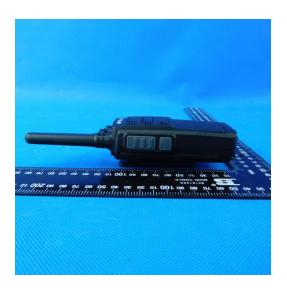
External Photos of the EUT



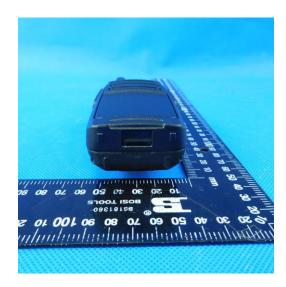




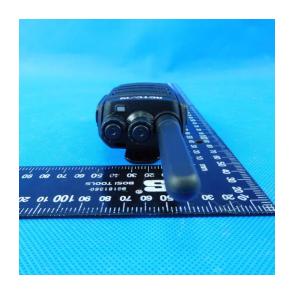
Report No.: CHTEW19080138 Page: 35 of 38 Issued: 2019-08-26







Report No.: CHTEW19080138 Page: 36 of 38 Issued: 2019-08-26





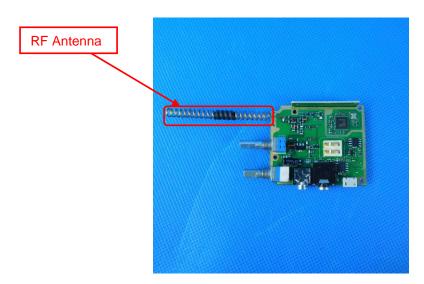


Report No.: CHTEW19080138 Page: 37 of 38 Issued: 2019-08-26

Internal Photos of the EUT







Report No.: CHTEW19080138 Page: 38 of 38 Issued: 2019-08-26





8 APPENDIX REPORT



Appendix A: Carrier Output Power(ERP)

Test Mode	Modulation Type	Test Channel	Measured power (dBm)	Measured power (W)	Limit(W)	Result
TX-FRS	FM	CH _{M1}	32.76	1.89	≤2	PASS
TX-FRS	FM	CH _{M2}	32.72	1.87	≤2	PASS

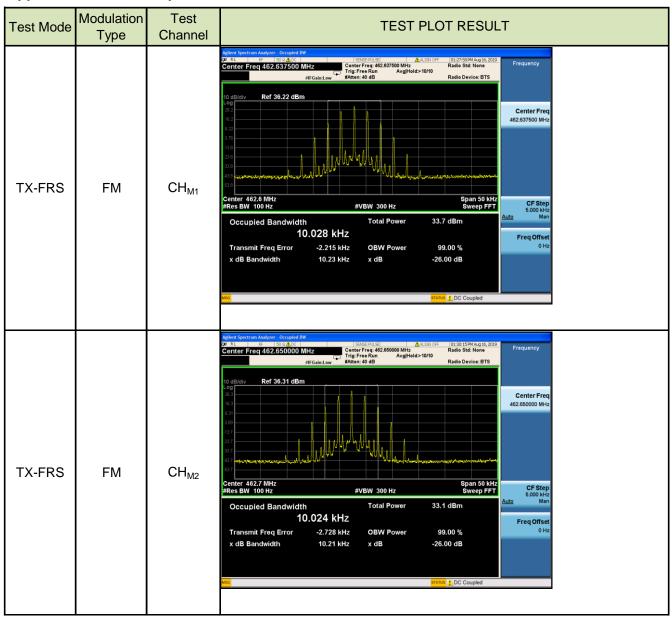


Appendix B: 99% Occupied Bandwidth & 26dB Bandwidth

Test Mode	Modulation	Test	Occupied	Bandwidth	99% Limit(kHz)	Result	
Test Mode	Type	Channel	99%(kHz)	26dB(kHz)	99 /6 LIIIII(KI 12)	Nesuit	
TX-FRS	FM	CH _{M1}	<u>10.028</u>	10.23	≤12.5	PASS	
TX-FRS	FM	CH _{M2}	10.024	10.24	≤12.5	PASS	

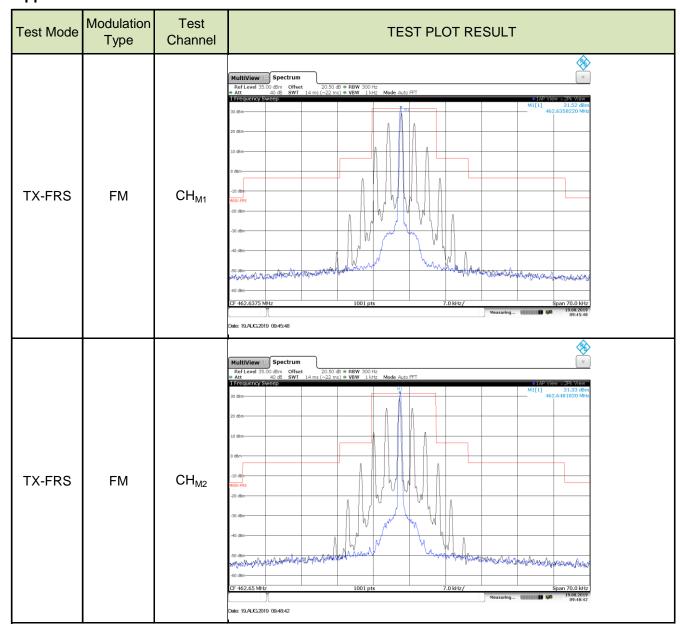


Appendix B: 99% Occupied Bandwidth & 26dB Bandwidth





Appendix C:Emission Mask



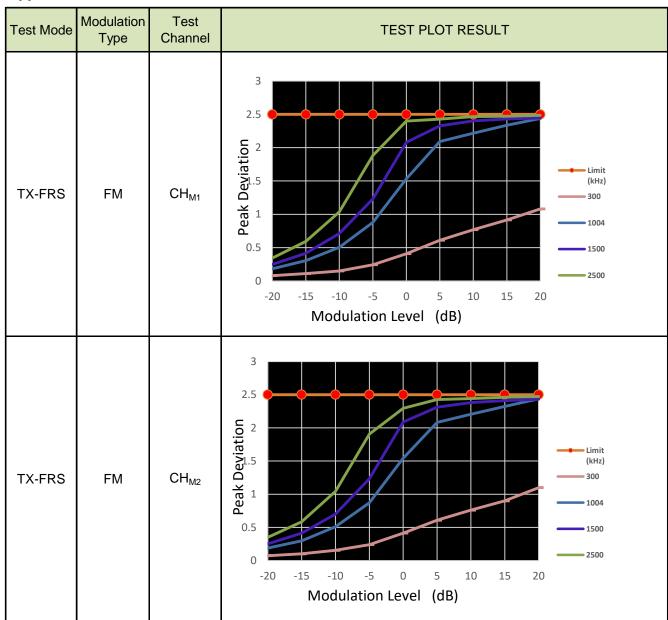


Appendix D:Modulation Limit

T	Modulation	Test	Modulation	Peak	Frequency	/ Deviation	n (Hz) Limit		Decult
Test Mode	Туре	Channel	Level (dB)	300	1004	1500	2500	(kHz)	Result
TX-FRS	FM	CH _{M1}	-20	0.079	0.182	0.247	0.344	2.5	PASS
TX-FRS	FM	CH _{M1}	-15	0.11	0.304	0.416	0.592	2.5	PASS
TX-FRS	FM	CH _{M1}	-10	0.149	0.504	0.711	1.035	2.5	PASS
TX-FRS	FM	CH _{M1}	-5	0.243	0.88	1.232	1.882	2.5	PASS
TX-FRS	FM	CH _{M1}	0	0.409	1.532	2.079	2.399	2.5	PASS
TX-FRS	FM	CH _{M1}	5	0.61	2.093	2.327	2.428	2.5	PASS
TX-FRS	FM	CH _{M1}	10	0.769	2.216	2.401	2.468	2.5	PASS
TX-FRS	FM	CH _{M1}	15	0.915	2.338	2.43	2.471	2.5	PASS
TX-FRS	FM	CH _{M1}	20	1.08	2.437	2.445	2.486	2.5	PASS
TX-FRS	FM	CH _{M2}	-20	0.073	0.189	0.25	0.349	2.5	PASS
TX-FRS	FM	CH _{M2}	-15	0.101	0.298	0.412	0.584	2.5	PASS
TX-FRS	FM	CH _{M2}	-10	0.154	0.51	0.699	1.042	2.5	PASS
TX-FRS	FM	CH _{M2}	-5	0.24	0.872	1.232	1.906	2.5	PASS
TX-FRS	FM	CH _{M2}	0	0.413	1.543	2.086	2.295	2.5	PASS
TX-FRS	FM	CH _{M2}	5	0.607	2.082	2.312	2.428	2.5	PASS
TX-FRS	FM	CH _{M2}	10	0.759	2.205	2.381	2.442	2.5	PASS
TX-FRS	FM	CH _{M2}	15	0.899	2.324	2.411	2.462	2.5	PASS
TX-FRS	FM	CH _{M2}	20	1.099	2.436	2.431	2.473	2.5	PASS



Appendix D:Modulation Limit



Peak Deviation

Modulation Level (dB)



Appendix E:Aduio Frequency Response

Appendix L.Addio i requeity response									
Test Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result		
TX-FRS	FM	CH _{M1}	100	-33.36	-	-	PASS		
TX-FRS	FM	CH _{M1}	200	-33.31	-	-	PASS		
TX-FRS	FM	CH _{M1}	300	-11.89	-17.84	-9.42	PASS		
TX-FRS	FM	CH _{M1}	400	-8.03	-12.86	-6.93	PASS		
TX-FRS	FM	CH _{M1}	500	-6.01	-9.00	-5.00	PASS		
TX-FRS	FM	CH _{M1}	600	-4.19	-7.42	-3.42	PASS		
TX-FRS	FM	CH _{M1}	700	-2.90	-6.09	-2.09	PASS		
TX-FRS	FM	CH _{M1}	800	-1.76	-4.93	-0.93	PASS		
TX-FRS	FM	CH _{M1}	900	-0.80	-3.91	0.09	PASS		
TX-FRS	FM	CH _{M1}	1000	0.05	-3.00	1.00	PASS		
TX-FRS	FM	CH _{M1}	1200	1.46	-1.42	2.58	PASS		
TX-FRS	FM	CH _{M1}	1400	2.61	-0.09	3.91	PASS		
TX-FRS	FM	CH _{M1}	1600	3.57	1.07	5.07	PASS		
TX-FRS	FM	CH _{M1}	1800	4.36	2.09	6.09	PASS		
TX-FRS	FM	CH _{M1}	2000	5.03	3.00	7.00	PASS		
TX-FRS	FM	CH _{M1}	2100	5.32	3.42	7.42	PASS		
TX-FRS	FM	CH _{M1}	2200	5.59	3.83	7.83	PASS		
TX-FRS	FM	CH _{M1}	2300	5.84	4.21	8.21	PASS		
TX-FRS	FM	CH _{M1}	2400	6.05	4.58	8.58	PASS		
TX-FRS	FM	CH _{M1}	2500	6.26	4.93	8.93	PASS		
TX-FRS	FM	CH _{M1}	2600	6.45	4.59	9.27	PASS		
TX-FRS	FM	CH _{M1}	2700	6.61	4.27	9.60	PASS		
TX-FRS	FM	CH _{M1}	2800	6.72	3.95	9.91	PASS		
TX-FRS	FM	CH _{M1}	2900	6.79	3.65	10.22	PASS		
TX-FRS	FM	CH _{M1}	3000	6.80	3.35	10.51	PASS		
TX-FRS	FM	CH _{M1}	3500	4.50	-	-	PASS		
TX-FRS	FM	CH _{M1}	4000	-2.47	-	-	PASS		
TX-FRS	FM	CH _{M1}	4500	-10.71	-	-	PASS		
TX-FRS	FM	CH _{M1}	5000	-18.69	-	-	PASS		
TX-FRS	FM	CH _{M2}	100	-33.52	-	-	PASS		
TX-FRS	FM	CH _{M2}	200	-33.48	-	-	PASS		
TX-FRS	FM	CH _{M2}	300	-12.02	-17.84	-9.42	PASS		
TX-FRS	FM	CH _{M2}	400	-8.04	-12.86	-6.93	PASS		
TX-FRS	FM	CH _{M2}	500	-6.07	-9.00	-5.00	PASS		
TX-FRS	FM	CH _{M2}	600	-4.27	-7.42	-3.42	PASS		
TX-FRS	FM	CH _{M2}	700	-2.94	-6.09	-2.09	PASS		
TX-FRS	FM	CH _{M2}	800	-1.81	-4.93	-0.93	PASS		
TX-FRS	FM	CH _{M2}	900	-0.86	-3.91	0.09	PASS		
TX-FRS	FM	CH _{M2}	1000	-0.01	-3.00	1.00	PASS		
TX-FRS	FM	CH _{M2}	1200	1.43	-1.42	2.58	PASS		
TX-FRS	FM	CH _{M2}	1400	2.59	-0.09	3.91	PASS		
TX-FRS	FM	CH _{M2}	1600	3.55	1.07	5.07	PASS		

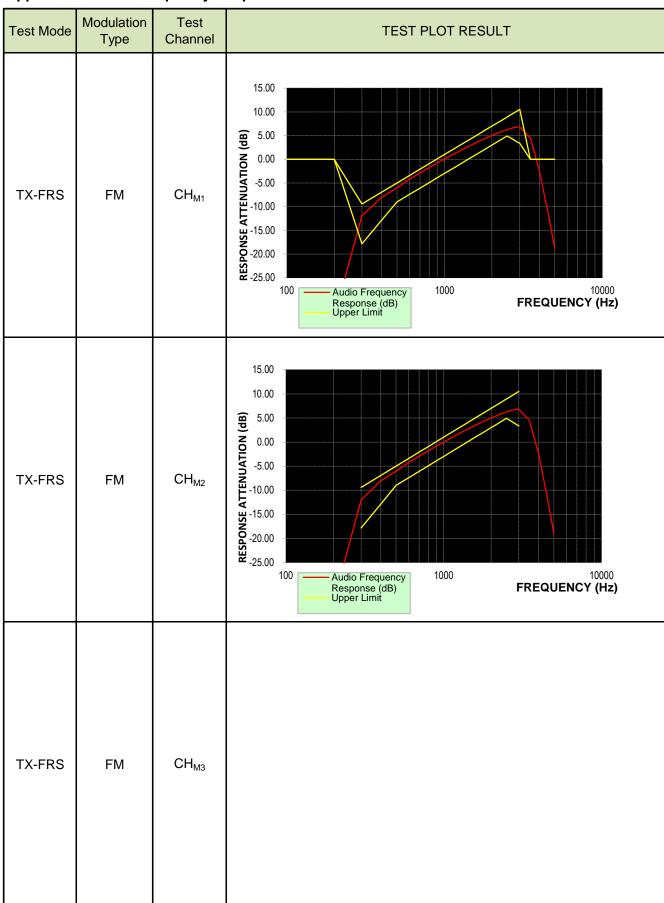


Appendix E:Aduio Frequency Response

Test Mode	Modulation Type	Test Channel	Frequency (Hz)	Audio Frequency Response (dB)	Lower Limit	Upper Limit	Result
TX-FRS	FM	CH _{M2}	1800	4.35	2.09	6.09	PASS
TX-FRS	FM	CH _{M2}	2000	5.01	3.00	7.00	PASS
TX-FRS	FM	CH _{M2}	2100	5.31	3.42	7.42	PASS
TX-FRS	FM	CH _{M2}	2200	5.58	3.83	7.83	PASS
TX-FRS	FM	CH _{M2}	2300	5.82	4.21	8.21	PASS
TX-FRS	FM	CH _{M2}	2400	6.04	4.58	8.58	PASS
TX-FRS	FM	CH _{M2}	2500	6.25	4.93	8.93	PASS
TX-FRS	FM	CH _{M2}	2600	6.44	4.59	9.27	PASS
TX-FRS	FM	CH _{M2}	2700	6.59	4.27	9.60	PASS
TX-FRS	FM	CH _{M2}	2800	6.71	3.95	9.91	PASS
TX-FRS	FM	CH _{M2}	2900	6.80	3.65	10.22	PASS
TX-FRS	FM	CH _{M2}	3000	6.80	3.35	10.51	PASS
TX-FRS	FM	CH _{M2}	3500	4.50	1	-	PASS
TX-FRS	FM	CH _{M2}	4000	-2.50	-	-	PASS
TX-FRS	FM	CH _{M2}	4500	-10.84	-	-	PASS
TX-FRS	FM	CH _{M2}	5000	-18.92		-	PASS



Appendix E:Aduio Frequency Response



Note: The highest audio frequency response at 3kHz<3.125kHz, so meet the requirement.



Appendix F:Frequency Stability Test & Temperature

	Modulation	Test (Conditions	Frequency	error (ppm)	Limit (nnm)	Result
	Туре	Voltage	Temperature	CH _{M1}	CH _{M2}	Limit (ppm)	Result
TX-FRS	FM	V_N	-30	-0.357	<u>0.399</u>	±2.5	PASS
TX-FRS	FM	Vn	-20	-0.345	0.391	±2.5	PASS
TX-FRS	FM	Vn	-10	-0.336	0.382	±2.5	PASS
TX-FRS	FM	Vn	0	-0.325	0.359	±2.5	PASS
TX-FRS	FM	Vn	10	-0.316	0.365	±2.5	PASS
TX-FRS	FM	Vn	20	-0.305	0.352	±2.5	PASS
TX-FRS	FM	V_N	30	-0.317	0.363	±2.5	PASS
TX-FRS	FM	V_N	40	-0.325	0.372	±2.5	PASS
TX-FRS	FM	V_N	55	-0.336	0.380	±2.5	PASS



Appendix G:Frequency Stability Test & Voltage

Test Modula	Modulation	odulation Test Condition		Frequency	error (ppm)	Limit (nnm)	Result
Mode	Туре	Voltage	Temperature	CH _{M1}	CH _{M2}	Limit (ppm)	Result
TX-FRS	FM	Vn	Tn	-0.305	0.352	±2.5	PASS
TX-FRS	FM	VL	Tn	-0.311	0.358	±2.5	PASS
TX-FRS	FM	Vн	Tn	-0.320	<u>0.360</u>	±2.5	PASS

----End of Report----