

Shenzhen Huaxin Information Technology Service Co., Ltd

FCC TEST REPORT

FCC ID: 2BCJQ-TR40

On Behalf of

ThinkRace Technology Co., Limited Ankle Tracker

Model No.: TR40,TR50,TR60,TR70,TR80

Prepared for : ThinkRace Technology Co., Limited

21/F Hing Lung Commercial Building 68-74 Bonham Strand East

Address : Sheung Wan Hongkong

Prepared By : Shenzhen Huaxin Information Technology Service Co., Ltd

101, R & D Building, No.3 guansheng 4th Road, Luhu

Address : Community, Guanhu Street, Longhua District, Shenzhen,

Guangdong, China

Report Number : HX230922R003

Date of Receipt : Sep.15th, 2023

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Version Number : V0

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TEST REPORT DECLARATION

Applicant : ThinkRace Technology Co., Limited

Address 21/F Hing Lung Commercial Building 68-74 Bonham Strand East Sheung Wan

Hongkong

Manufacturer : Shenzhen Guanaixing Technology Co.,Ltd.

Address 201-A090,BlockB,Huayuancheng Digital Building, 1079 Nanhai Avenue,Yanshan

Community, Nanshan District, Shenzhen, China.

EUT Description : Ankle Tracker

(A) Model No. : TR40,TR50,TR60,TR70,TR80

(B) Trademark : Traxbean

Measurement Standard Used:

FCC CFR Title 47 Part 2 FCC CFR Title 47 Part 22 Subpart H FCC CFR Title 47 Part 24 Subpart E FCC CFR Title 47 Part 27

The device described above is tested by Shenzhen Huaxin Information Technology Service Co., Ltd. to determine the maximum emission levels emanating from the device. The test results are contained in this test report and Shenzhen Huaxin Information Technology Service Co., Ltd is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Huaxin Information Technology Service Co., Ltd.

Tested by (name + signature).....:

Project Engineer

Approved by (name + signature)......: Michael Wu

Project Manager

Date of issue...... Sep.22th, 2023

Michael wu



Revision History

Revision	Issue Date	Revisions	Revised By
V0	Sep.22th, 2023	Initial released Issue	Eason Tan

1 Test Summary

Test Item	Section in CFR 47	Result
	Part 2.1046	
	Part 22.913(a) (5)	
RF Output Power&EIRP/ERP	Part 24.232 (c)	Pass
RF Output Fower&EIRF/ERF	Part 27.50 (d)(4)	F d 5 5
	Part 27.50 (c)(10)	
	Part 27.50 (h)(2)	
	Part 2.1046	
Peak-To-Average Ratio	Part 22.913(d)	Pass
Feak-10-Average Railo	Part 24.232 (d)	Fa55
	Part 27.50(d)	
Modulation Characteristics	Part 2.1047	N/A
	Part 2.1049	
000/ 9 26 dD Occupied Dendwidth	Part 22.917	Pass
99% & -26 dB Occupied Bandwidth	Part 24.238	Pass
	Part 27.53(a)	
	Part 2.1051	
Spurious Emissions at Antonna Torminal	Part 22.917 (a)	Pass
Spurious Emissions at Antenna Terminal	Part 24.238 (a)	Fa55
	Part 27.53 (h)/(m)	
	Part 2.1053	
Field Strength of Spurious Radiation	Part 22.917 (a)	Pass
Field Strength of Spurious Radiation	Part 24.238 (a)	Fa55
	Part 27.53 (h)/(m)	
Out of band emission, Band Edge	Part 22.917 (a)	
	Part 24.238 (a)	Pass
	Part 27.53(h)/(m)	
Frequency stability vs. temperature	Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2)	Pass

Note: 1. Pass: The EUT complies with the essential requirements in the standard.

^{2.} The conclusion of this test report is judged by actual test data without considering measurement uncertainty.

2 General Information

2.1 General Description of EUT

Description of Device (EUT)

Description : Ankle Tracker
Trademark : Traxbean

Model Number : TR40,TR50,TR60,TR70,TR80

DIFF. : PCB board, structure and internal of these model(s) are the same , these

different models are based on market demands and regional differences, just model names and color are different, so no additional models were tested.

Test Voltage : DC 3.8V

Support Bands : LTE Band 2/4/5/7/12/17

Channel Bandwidth : LTE Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz

LTE Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz

LTE Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz LTE Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz

LTE Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz LTE Band 17: 5MHz, 10MHz

TX Frequency : LTE Band 2: 1850 ~ 1910 MHz

LTE Band 4: 1710 ~ 1755 MHz LTE Band 5: 824 ~ 849 MHz LTE Band 7: 2500 ~ 2570 MHz LTE Band 12: 699MHz ~ 716MHz LTE Band 17: 704 MHz ~ 716 MHz

Modulation type : QPSK, 16QAM

Antenna Type : Internal antenna,

LTE Band 2: Maximum Gain is 0.51dBi. LTE Band 4: Maximum Gain is 0.48dBi. LTE Band 5: Maximum Gain is 0.50dBi. LTE Band 7: Maximum Gain is 0.53dBi. LTE Band 12: Maximum Gain is 0.12dBi. LTE Band 17: Maximum Gain is 0.11dBi. (Antenna information is provided by applicant.)

There is WWAN diversity antenna inside the product, which is only for

receiving function.

Software version : V1.0 Hardware version : V1.0

Remark 1: The worst-case simultaneous transmission configuration was evaluated with no non-compliance found. Results in this report are only for 4G function, and there is no other transmitter involved.

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2.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E and Part 27 of the FCC CFR 47 Rules.

2.3 Test Facility

Company Name:	Shenzhen Huaxin Information Technology Service Co., Ltd	
Address:	101, R & D Building, No.3 guansheng 4th Road, Luhu Community, Guanhu Street, Longhua District, Shenzhen, Guangdong, China	
Telephone:	0775-21018313	
Fax:	0775-21018313	
ECC Test Firm Pagistration Number: 032271		

FCC Test Firm Registration Number: 932271

Designation Number: CN1344

CAB ID: CN0147

2.4 Accessories of Device (EUT)

Accessories : /
Manufacturer : /
Model : /
Ratings : /

2.5 Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDOC
1.	Notebook PC	Lenovo	ThinkPad E460	N/A	SDOC

2.6 Test Conditions

Items	Required	Actual
Temperature range:	15-35 ℃	24 ℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7 Measurement Uncertainty

Item	MU	Remark
Conducted Emission (9K~0.15MHz)	2.18dB	
Conducted Emission (0.15M~30MHz)	2.17dB	
D II II D (2014)	4.45 dB	Polarize: V
Radiation Emission ,3m (30MHz~1GHz)	2.76 dB	Polarize: H
Radiation Emission, 3m (1GHz∼6GHz)	4.02 dB	
Radiation Emission ,3m (6GHz~18GHz)	4.30 dB	
RF output power (conducted)	0.41 dB	
Power Spectral Density (conducted)	0.39 dB	
Spurious emissions (conducted)	0.59 dB	
Occupied Channel Bandwidth (conducted)	4.22%	

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3 Test Instruments list

Equipment	Manufacture	Model No.	Firmware version	Serial No.	Last cal.	Cal Interva
9*6*6 anechoic chamber	Mao Rui	9*6*6	N/A	N/A	2022.06.15	3Year
Spectrum analyzer	R&S	FSV40-N	V7.0-4-62-2	101795	2023.09.17	1Year
Spectrum analyzer	Agilent	N9020A	A.14.16	MY51280803	2023.04.15	1Year
Receiver	R&S	ESR7	5.812	102543	2022.10.20	1Year
Receiver	R&S	ESCI	N/A		2022.10.20	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	N/A	01318	2022.06.19	2Year
Horn Antenna	A.H. Systems	SAS-571	N/A	915	2022.06.17	2Year
Active Loop Antenna	Schwarzbeck	FMZB 1519B	N/A	N/A		2Year
RF Cable	1	N/J-NJ- RG58(1G) 9m	N/A	RE1	2023.09.17	1Year
RF Cable	1	N/J-NJ- RG58(1G) 10m	N/A	RE2	2023.09.17	1Year
RF Cable	1	N/J-SMAAJ- 406(18G) 9m	N/A	CE1	2023.09.17	1Year
Pre-amplifier	HP	8447D	N/A	1616A02061	2023.04.15	1Year
Pre-amplifier	Agilent	8449B	N/A	3008A00551	2023.04.15	1Year
L.I.S.N.#1	R&S	ESH3-Z5	N/A	894981/024	2023.03.28	1Year
L.I.S.N.#2	R&S	ENV216	N/A	101291	2023.03.28	1 Year
Horn Antenna	A.H. Systems	SAS-571	N/A	915	2022.06.17	2 Year
power amplifier	Micotop	MPA-80-1000- 250	N/A	MPA2206215	2023.04.15	1 Year
Power Meter	Keysight	E9300A	N/A	MY45105087	2023.04.15	1 Year
Power Sensor	Keysight	E9300A	N/A	MY55060025	2023.04.15	1 Year
power amplifier	Weihuang	WHTH-1000-40- 880	N/A	MPA2206216	2023.04.15	1 Year
Switching Mode Power Supply	PinHong	PH-1110	N/A	20220423007	2023.04.15	1 Year
Adjustable attenuator	MWRFtest	N/A	N/A	1	1	/
10dB Attenuator	1	10dB	N/A	N/A	2023.09.17	1 Year
Temperature and humidity test chamber	Asprey	LX-150L	N/A	N/A	2023.04.2	1 Year

Software Information			
Test Item	Software Name	Manufacturer	Version
RE	EMC-I	SKET	V1.4.0.1
CE	EMC-I	SKET	V1.4.0.1
RF-CE	RF Test Software	TACHOY	V2.0

4 System test configuration

4.1 Test mode

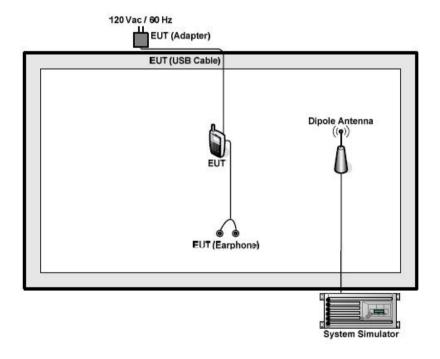
During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes		
Band	Radiated	Conducted
LTE Band 2	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 4	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 5	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 7	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 12	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 17	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link

Note: Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas License Digital Systems v03r1 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

4.2 Configuration of Tested System



4.3 Conducted Output Power & EIRP/ERP

Test Requirement:	FCC part22.913(a) (5), FCC part24.232(b) ,FCC Part 27.50 (d)(4)/(h)		
	FCC Part 27.50 (c)(10),FCC Part 27.50 (h)(2)		
Test Method:	ANSI C63.26:2015		
Limit:	LTE Band 2: 2W		
	LTE Band 4: 1W		
	LTE Band 5: 7W		
	LTE Band 7: 2W		
	LTE Band 12: 3W		
	LTE Band 17: 2W		
Test setup:	EUT Splitter Communication Tester Power meter		
	Note: Measurement setup for testing on Antenna connector		
Test Procedure:	 The transmitter output port was connected to base station. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement. Set EUT at maximum power through base station. Select lowest, middle, and highest channels for each band and different modulation. 		
	Measure the maximum burst average power.		
Test Instruments:	Refer to section 3 for details		
Test mode:	Refer to section 4.1 for details		
Test results:	Pass		

Measurement Data

Please refer to separated files for APPENDIX I TEST RESULTS.

4.4 Peak-to-Average Ratio

Test Requirement:	Part 22.913(d), FCC part24.232(d) and FCC part27.50(d)(5)	
Test Method:	ANSI C63.26:2015	
Test Limit:	Used complementary cumulative distribution function (CCDF) of analyzer to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time	
Test setup:	EUT Splitter Communication Tester	
	Note: Measurement setup for testing on Antenna connector	
Test Procedure:	1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7	
	The EUT was connected to spectrum and system simulator via a power divider	
	3. Using the CCDF measurement of spectrum analyzer;	
	4. Set RBW≥OBW or specified reference bandwidth;	
	 Set the number of counts to a value that stabilizes the measured CCDF curve; 	
	6. Set the measurement interval as 1ms	
	7. Record the maximum PAPR level associated with a probability of 0.1%.	
Test Instruments:	Refer to section 3 for details	
Test mode:	Refer to section 4.1 for details	
Test results:	Pass	

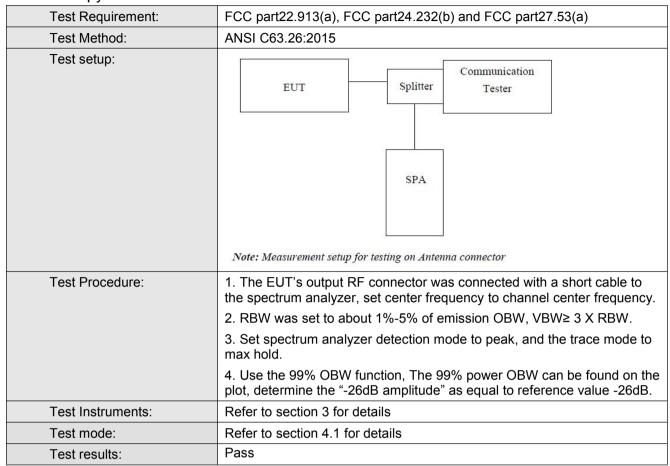
Measurement Data

Please refer to separated files for APPENDIX I TEST RESULTS.

Note: All bandwidth and modulation are tested, only the worst results are reported.

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4.5 Occupy Bandwidth



Measurement Data

Please refer to separated files for APPENDIX I TEST RESULTS.

Note: All bandwidth and modulation are tested, only the worst results are reported.

4.6 MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 24E & Part 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

4.7 Out of band emission at antenna terminals

Test Requirement:	FCC part22.913(a), FCC part24.238(a), FCC part27.53(h) and FCC part27.53(m)		
Test Method:	ANSI C63.26:2015		
Limit:	Band 2/4/5/12/17:-13dBm		
	Band 7:-25dBm		
Test setup:	EUT Splitter Communication Tester Filter SPA		
	Note: Measurement setup for testing on Antenna connector		
Test Procedure:	The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation.		
	2 The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic.		
	3 For the out of band: Set the RBW=1MHz, VBW = 3MHz, Start=30MHz, Stop= 10th harmonic.		
	4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.		
Test Instruments:	Refer to section 3 for details		
Test mode:	Refer to section 4.1 for details		
Test results:	Pass		

Measurement Data

Please refer to separated files for APPENDIX I TEST RESULTS.

Note: All bandwidth and modulation are tested, only the worst result is reported.

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4.8 Field strength of spurious radiation measurement

Test Requirement: FCC part22.913(a), FCC part24.238(a) and FCC part27.53 Test Method: ANSI C63.26:2015 Band 2/4/5/12/17:-13dBm Band 7:-25dBm Test setup: Below 1GHz Antenna Tower Antenna Tower Above 1GHz Antenna Tower Antenna Tower	radiation measurement		
Limit: Band 2/4/5/12/17:-13dBm Band 7:-25dBm Below 1GHz Antenna Tower FF T est Receiver Ground Plane Above 1GHz Antenna Tower Horn Antenna			
Band 7:-25dBm Below 1GHz Antenna Tower Search Antenna Ground Plane Above 1GHz Antenna Tower Horn Antenna			
Test setup: Below 1GHz Antenna Tower Antenna FF Test Receiver Ground Plane Above 1GHz Antenna Tower Horn Antenna			
Antenna Tower Search Antenna RF Tost Receiver Ground Plane Above 1GHz Antenna Tower Horn Antenna			
Substituted method: Antenna mast Ground plane Antenna mast d: distance in meters d: 3 meter S.G. Substituted Dipole or Horn Antenna Bi-Log Antenna or Horn Antenna	SPA		

Test Procedure:	 The EUT was placed on an non-conductive turntable using a non- conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.
	 During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.
	 The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.
	4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.
	ERP / EIRP = S.G. output (dBm) + Antenna Gain(dB/dBi) –
	Cable Loss (dB)
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data:

	Eronuoneu	SA	Correction	EIRP	Limit	Mannin	
No.	Frequency	Reading	factor	Result	Lilinit	Margin	Ant. Pol.
	(MHz)	(dBm)	(dB/m)	(dBm)	(dBm)	(dB)	
	st Channel		200			36	4
1	94.979	-63.41	-3.56	-66.97	-13.00	-53.97	Horizontal
2	771.047	-74.88	11.40	-63.48	-13.00	-50.48	Horizontal
3	965.474	-78.32	14.34	-63.98	-13.00	-50.98	Horizontal
4	3720.000	-57.47	6.82	-50.65	-13.00	-37.65	Horizontal
5	5580.000	-45.59	10.86	-34.73	-13.00	-21.73	Horizontal
6	38.908	-56.01	-1.41	-57.42	-13.00	-44.42	Vertical
7	92.997	-51.44	-3.72	-55.16	-13.00	-42.16	Vertical
8	965.474	-65.48	13.21	-52.27	-13.00	-39.27	Vertical
9	3720.000	-55.86	6.81	-49.05	-13.00	-36.05	Vertical
10	5580.000	-44.79	11.34	-33.45	-13.00	-20.45	Vertical
Middle	e Channel						*
1	38.096	-68.34	-0.15	-68.49	-13.00	-55.49	Horizontal
2	94.979	-64.69	-3.56	-68.25	-13.00	-55.25	Horizontal
3	965.474	-79.35	14.34	-65.01	-13.00	-52.01	Horizontal
4	3760.000	-58.68	6.93	-51.75	-13.00	-38.75	Horizontal
5	5640.000	-48.03	10.84	-37.19	-13.00	-24.19	Horizontal
6	37.830	-56.51	-0.74	-57.25	-13.00	-44.25	Vertical
7	92.346	-52.01	-3.77	-55.78	-13.00	-42.78	Vertical
8	965.474	-65.31	13.21	-52.10	-13.00	-39.10	Vertical
9	3760.000	-57.30	6.93	-50.37	-13.00	-37.37	Vertical
10	5640.000	-44.42	11.32	-33.10	-13.00	-20.10	Vertical
Highe	st Channel	111			li.	4.	
1	37.302	-68.53	0.24	-68.29	-13.00	-55.29	Horizontal
2	91.700	-65.03	-3.81	-68.84	-13.00	-55.84	Horizontal
3	965.474	-72.46	14.34	-58.12	-13.00	-45.12	Horizontal
4	3800.000	-57.21	7.03	-50.18	-13.00	-37.18	Horizontal
5	5700.000	-46.22	10.83	-35.39	-13.00	-22.39	Horizontal
6	37.565	-56.05	-0.56	-56.61	-13.00	-43.61	Vertical
7	93.653	-50.10	-3.65	-53.75	-13.00	-40.75	Vertical
8	965.474	-69.30	13.21	-56.09	-13.00	-43.09	Vertical
9	3800.000	-55.60	7.05	-48.55	-13.00	-35.55	Vertical
10	5700.000	-46.54	11.29	-35.25	-13.00	-22.25	Vertical

	4:	· manager	LTE Band 17		PSK	1.	-10
No.	Frequency (MHz)	SA Reading	Correction factor (dB/m)	EIRP Result (dBm)	Limit	Margin (dB)	Ant. Pol.
		(dBm)			(dBm)		
Lowe	st Channel				22		
1	42.931	-84.65	26.71	-57.94	-13.00	-44.94	Horizontal
2	478.139	-88.12	36.12	-52.00	-13.00	-39.00	Horizontal
3	602.929	-87.70	38.90	-48.80	-13.00	-35.80	Horizontal
4	1418.000	-64.22	-0.46	-64.68	-13.00	-51.68	Horizontal
5	2127.000	-64.97	2.00	-62.97	-13.00	-49.97	Horizontal
6	92.346	-80.32	25.07	-55.25	-13.00	-42.25	Vertical
7	481.511	-87.22	36.37	-50.85	-13.00	-37.85	Vertical
8	628.894	-87.10	37.85	-49.25	-13.00	-36.25	Vertical
9	1418.000	-64.50	-1.24	-65.74	-13.00	-52.74	Vertical
10	2127.000	-65.56	1.52	-64.04	-13.00	-51.04	Vertical
Middl	e Channel						
1	276.382	-87.55	30.52	-57.03	-13.00	-44.03	Horizontal
2	542.610	-87.21	37.46	-49.75	-13.00	-36.75	Horizontal
3	637.795	-87.69	39.29	-48.40	-13.00	-35.40	Horizontal
4	1420.000	-64.03	-0.45	-64.48	-13.00	-51.48	Horizontal
5	2130.000	-65.26	2.00	-63.26	-13.00	-50.26	Horizontal
6	91.700	-79.33	25.03	-54.30	-13.00	-41.30	Vertical
7	427.292	-88.09	35.47	-52.62	-13.00	-39.62	Vertical
8	624.490	-87.33	37.87	-49.46	-13.00	-36.46	Vertical
9	1420.000	-63.40	-1.24	-64.64	-13.00	-51.64	Vertical
10	2130.000	-64.17	1.53	-62.64	-13.00	-49.64	Vertical
Highe	est Channel						
1	266.839	-88.61	30.31	-58.30	-13.00	-45.30	Horizontal
2	406.782	-88.53	35.04	-53.49	-13.00	-40.49	Horizontal
3	542.610	-87.10	37.46	-49.64	-13.00	-36.64	Horizontal
4	1422.000	-63.00	-0.45	-63.45	-13.00	-50.45	Horizontal
5	2133.000	-66.78	2.01	-64.77	-13.00	-51.77	Horizontal
6	92.346	-79.13	25.07	-54.06	-13.00	-41.06	Vertical
7	401.105	-86.96	34.33	-52.63	-13.00	-39.63	Vertical
8	558.079	-86.84	38.02	-48.82	-13.00	-35.82	Vertical
9	1422.000	-63.83	-1.24	-65.07	-13.00	-52.07	Vertical
10	2133.000	-65.34	1.53	-63.81	-13.00	-50.81	Vertical

Remark:

- 1.Correct Factor = Antenna Factor + Cable Loss Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
- 2.Result = Reading + Correct Factor.
- 3.Margin = Result Limit

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4.9 Frequency stability V.S. Temperature measurement

 Trequency stability v.o. Temperature measurement			
Test Requirement:	FCC Part2.1055(a)(1)(b), FCC part90.213.(a)		
Test Method:	ANSI C63.26:2015		
Limit:	2.5ppm(Part 22)		
	Within the authorized bands of operation(Part 24, Part 27)		
Test setup:	Temperature Chamber		
	Spectrum analyzer EUT Att. Variable Power Supply		
	Note: Measurement setup for testing on Antenna connector		
Test procedure:	 The equipment under test was connected to an external DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum 		
	analyzer via feed through attenuators.		
	3. The EUT was placed inside the temperature chamber.		
	 Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 		
	5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency.		
	6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.		
Test Instruments:	Refer to section 3 for details		
Test mode:	Refer to section 4.1 for details		
Test results:	Pass		
Remark:	If all frequencies stability are comply with the lower limit, then all results can be considered qualified		

Measurement Data

Please refer to separated files for APPENDIX I TEST RESULTS.

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4.10 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2), FCC part90.213.(a)			
Test Method:	ANSI C63.26:2015			
Limit:	2.5ppm Band II & Band VII should be within authorized band.			
Test setup:	Temperature Chamber			
	Spectrum analyzer EUT Att. Variable Power Supply Note: Measurement setup for testing on Antenna connector			
Test procedure:	Set chamber temperature to 20°C. Use a variable DC power sour to power the EUT and set the voltage to rated voltage.			
	 Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. Reduce the input voltage to specified extreme voltage variation (+/-15%) and endpoint, record the maximum frequency change. 			
Test Instruments:	Refer to section 3 for details			
Test mode:	Refer to section 4.1 for details			
Test results:	Pass			
Remark:	If all frequencies stability are comply with the lower limit, then all results can be considered qualified			

Measurement Data

Please refer to separated files for APPENDIX I TEST RESULTS.

4.11 Test Setup Photo

Please refer to separated files for APPENDIX IV Test Setup Photos.

-----END OF REPORT-----