TEST REPORT

For GSM

Report No.:: CHTW24080045 Report Verification:

Project No....: SHT2407082701W

FCC ID.....:: 2AXLB-EAV-RC50

Applicant:: SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD

Unit 1-A, No.3 Workshop, 28 Xiasheng Road, SIP Suzhou, Address....:

Jiangsu China 215000

Product Name:: Remote Controller

Trade Mark: EAVISION

Model No.: EAV-RC50

Listed Model(s):

FCC CFR Title 47 Part 2 Standard:

FCC CFR Title 47 Part 22 Subpart H

FCC CFR Title 47 Part 24 Subpart E

Jun. 21, 2024 Date of receipt of test sample.....

Date of testing..... Jul. 25, 2024- Aug. 02, 2024

Date of issue.....: Aug. 09, 2024

Result....: **Pass**

Compiled by (position+printedname+signature)...:

Xiaodomy Zheo File administrators:Xiaodong Zhao

Supervised by

(position+printedname+signature)....: Test Engineer: Xiaodong Zhao Xiaodong Zheo

Approved by

(position+printedname+signature)....: Xu Yang Manager:

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

Address....: Building 7, Baiwang Idea Factory, No.1051, Songbai Road,

Yangguang Community, Xili Subdistrict, Nanshan District,

Shenzhen, Guangdong, China

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Applicable Standards

The tests were performed according to following standards:

FCC CFR Title 47 Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations

FCC CFR Title 47 Part 22 Subpart H: Cellular Radiotelephone Service

FCC CFR Title 47 Part 24 Subpart E: Broadband PCS

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

KDB 971168 D01 Power Meas License Digital Systems v03: MEASUREMENT GUIDANCE FOR CERTIFICATION OF LICENSED DIGITAL TRANSMITTERS

1.2. Report version information

Revision No.	Date of issue	Description
N/A	2024-08-09	Original

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2. TEST DESCRIPTION

Section	Test Item	Section in CFR 47	Result #1	Test Engineer
5.1	Radiated Spurious Emissions	Part 2.1053 Part 22.917 Part 24.238	Pass	Yifan Wang

Note:

^{1) #1:} The test result does not include measurement uncertainty value.

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3. **SUMMARY**

3.1. Client Information

Applicant:	SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD	
Address: Unit 1-A, No.3 Workshop, 28 Xiasheng Road, SIP Suzh China 215000		
Manufacturer:	SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., LTD	
Address: Unit 1-A, No.3 Workshop, 28 Xiasheng Road, SIP Suzhou, China 215000		
Factory: SUZHOU EAVISION ROBOTIC TECHNOLOGIES CO., L		
Address: Unit 1-A, No.3 Workshop, 28 Xiasheng Road, SIP Suzhou China 215000		

3.2. Product Description

Main unit information:			
Product Name:	Remote Controller		
Trade Mark:	EAVISION		
Model No.:	EAV-RC50		
Listed Model(s):	-		
Power supply:	Input: DC20V3.25A Battery Capacity:7.6V, 13100mAh		
Hardware version:	N/A		
Software version:	N/A		

3.3. Radio Specification Description

Support Operating Band:	⊠ GSM850	□ PCS1900		
Operating Frequency Range:	Please refer to n	ote #2		
Support Network:	⊠GSM	⊠ GPRS	⊠ EGPRS	
Modulation type:	⊠ GMSK	⊠ 8PSK		
GPRS Multislot Class:	□ 8	<u> </u>	⊠ 12	□ 33
EGPRS Multislot Class:	□ 8	<u> </u>	⊠ 12	□ 33

Note:

O 🔯: means that this feature is supported; 🗀: means that this feature is not supported

O #2: Operating frequency range is as follow:

Band	Uplink frequency	Downlink frequency
GSM850	824.20 - 848.80MHz	869.20 - 893.80MHz
PCS1900	1850.20 -1909.80MHz	1930.20 -1989.80MHz

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3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.		
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China		
Contact information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn		
	Туре	Accreditation Number	
Qualifications	FCC Registration Number	762235	
	FCC Designation Number	CN1181	

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4. TEST CONFIGURATION

4.1. Test frequency list

GSM850		PCS1900	
Channel	Frequency (MHz)	Channel	Frequency (MHz)
128	824.20	512	1850.20
190	836.60	661	1880.00
251	848.80	810	1909.80

4.2. Test mode

Test mode	Link mode		
-----------	-----------	--	--

- Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas. License Digital Systems and ANSI C63.26 with maximum output power.
- 2) Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

All modes and data rates and positions were investigated, test modes are chosen to be reported as the worst case configuration below:

Band	Radiated test items
GSM 850	■ GSM link
PCS 1900	■ GSM link

4.3. Test sample information

Test item	HTW sample no.	
Radiated test items	YPHT24060629001	

Note:

Radiated test items: Radiated Spurious Emission

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4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

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

Whethe	er support unit is used?			
✓	No			
Item	Equipment	Trade Name	Model No.	Other
1				
2				

4.5. Testing environmental condition

Voltage	VN=Nominal Voltage	DC 7.6V
Temperature	TN=Normal Temperature	25 °C
Humidity	30~60 %	
Air Pressure	950-1050 hPa	

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
4	Redicted Courieus Emission	4.54dB for 30MHz-1GHz
'	Radiated Spurious Emission	5.10dB for above 1GHz

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

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4.7. Equipments Used during the Test

•	Radiated Spu	rious Emission					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2023/04/17	2026/04/16
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2023/08/22	2024/08/21
•	Spectrum Analyzer	R&S	HTWE0385	N9020A	MY54486658	2023/08/22	2024/08/21
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2024/04/08	2027/04/07
•	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2023/02/14	2026/02/13
•	Pre-Amplifer	CD	HTWE0071	PAP-0102	12004	2024/06/06	2025/06/05
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2024/06/06	2025/06/05
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

•	Auxiliary Equi	pment					
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
•	Radio communication tester	R&S	HTWE0287	CMW500	137688-Lv	2023/08/25	2024/08/24
•	High pass filter	Wainwright	HTWE0297	WHKX3.0/18G-10SS	38	2024/03/26	2025/03/25
•	Band Stop filter	-	HTWE0039	N/A	N/A	2024/01/23	2025/01/24

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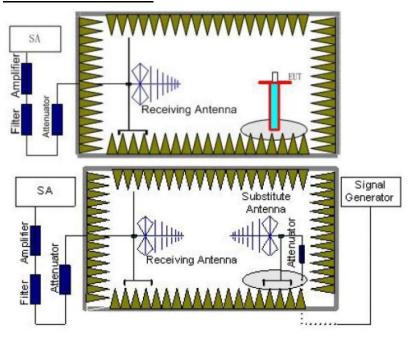
5. TEST CONDITIONS AND RESULTS

5.1. Radiated Spurious Emission

LIMIT

-13dBm

TEST CONFIGURATION



TEST PROCEDURE

- 1. 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.
- 2. 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.
- 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.

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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 refer to the clause 4.2

TEST RESULTS

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					GSN	l850					
Test ch	annel:		128			Polarization:			Hor	izontal	
Mark	Frequency		ading	Antenna	Cable	Preamp	Level		mit	0ver	Remark
	MHZ		dBm	dB	dB	dB	dBm		dBm	limit	
1	32.99	-6	8.42	26.67	1.04	30.99	-71.70	-13	.00	-58.70	Peak
2	180.93	-7	6.36	21.04	2.57	30.26	-83.01	-13	.00	-70.01	Peak
3	1650.32	-6	6.86	36.16	8.75	28.57	-50.52	-13	.00	-37.52	Peak
4	2169.55	-6	9.26	40.70	10.36	28.61	-46.81	-13	.00	-33.81	Peak
5	4117.79	-6	3.39	41.85	5.59	40.20	-56.15	-13	.00	-43.15	Peak
6	5776.92	-5	8.81	43.97	6.70	39.32	-47.46	-13	.00	-34.46	Peak
7	7432.62	-6	4.78	48.40	7.73	39.91	-48.56	-13	.00	-35.56	Peak
8	11399.03	-6	6.14	52.97	9.12	40.30	-44.35	-13	.00	-31.35	Peak
Test ch	annel:		128			Polarizatio	n:		Ver	tical	
Mark	Frequency	Re	ading	Antenna	Cable	Preamp	Level	L	imit	over	Remark
	MHZ		dBm	dB	dB	dB	dBm		dBm	limit	
1	33.93	-7	3.60	19.23	1.05	30.98	-84.30	-1	3.00	-71.30	Peak
2	142.45	-7	5.50	21.54	2.25	30.45	-82.16	-1	3.00	-69.16	Peak
3	1650.32	-6	4.97	36.12	8.75	28.57	-48.67	-1	3.00	-35.67	Peak
4	2127.07	-6	7.38	40.52	10.23	28.66	-45.29		3.00	-32.29	Peak
5	4117.79		5.74	42.12	5.59		-48.23		3.00	-35.23	Peak
6	5776.92	1.5	1.91	44.10	6.70		-50.43		3.00	-37.43	Peak

Test cha	Test channel:		190		Polarization:			Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	34.90	-70.51	27.00	1.07	30.98	-73.42	-13.00	-60.42	Peak	
2	390.82	-76.53	25.23	3.90	30.08	-77.48	-13.00	-64.48	Peak	
3	1670.38	-59.56	36.24	8.82	28.53	-43.03	-13.00	-30.03	Peak	
4	2510.89	-64.51	39.22	11.34	26.69	-40.64	-13.00	-27.64	Peak	
5	4181.16	-59.77	42.18	5.68	40.33	-52.24	-13.00	-39.24	Peak	
6	5865.83	-60.94	44.18	6.71	39.27	-49.32	-13.00	-36.32	Peak	
Test cha	nnel:	190			Polarization	n:	Vert	ical		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm		Remark	
1	145.49	-74.51	21.06	2.28	30.40	-81.57	-13.00	-68.57	Peak	
2	390.82	-78.16	25.06	3.90	30.08	-79.28	-13.00	-66.28	Peak	
3	1670.38	-63.60	36.17	8.82	28.53	-47.14	-13.00	-34.14	Peak	
4	2510.89	-61.76	39.22	11.34	26.69	-37.89	-13.00	-24.89	Peak	
5	4181.16	-54.42	42.44	5.68	40.33	-46.63	-13.00	-33.63	Peak	
6	5865.83	-61.50	44.34	6.71	39.27	-49.72	-13.00	-36.72	Peak	

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Test cha	annel:	251	251		olarization	:	Horiz	Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	33.93	-69.64	26.84	1.05	30.98	-72.73	-13.00	-59.73	Peak	
2	177.78	-76.64	21.01	2.54	30.27	-83.36	-13.00	-70.36	Peak	
3	1700.00	-64.15	36.35	8.91	28.47	-47.36	-13.00	-34.36		
4	2547.01	-62.12	39.03	11.43	26.33	-37.99	-13.00	-24.99		
5	4245.51	-58.18	42.43	5.78	40.45	-50.42	-13.00	-37.42		
6	5940.97	-62.06	44.39	6.70	39.25	-50.22	-13.00	-37.22	Peak	
Test channel:		251		F	olarization	:	Vertic	cal		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark	
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit		
1	33.93	-70.45	19.23	1.05	30.98	-81.15	-13.00	-68.15	Peak	
2	96.76	-78.22	25.79	1.84	30.56	-81.15	-13.00	-68.15	Peak	
3	1700.00	-62.36	36.24	8.91	28.47	-45.68	-13.00	-32.68	Peak	
4	2547.01	-60.96	39.19	11.43	26.33	-36.67	-13.00	-23.67	Peak	
_	4245.51	-56.92	42.64	5.78	40.45	-48.95	-13.00	-35.95	Peak	
5										

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				PCS19	00				
Test ch	annel:	512		F	Polarization	1:	Horiz		
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	39.75	-82.81	27.74	1.15	30.96	-84.88	-13.00	-71.88	Peak
2	705.58	-81.24	28.28	5.39	29.33	-76.90	-13.00	-63.90	Peak
3	3700.26	-53.62	42.29	5.22	40.76	-46.87	-13.00	-33.87	Peak
4	5560.50	-46.08	43.79	6.46	39.64	-35.47	-13.00	-22.47	Peak
5	7961.43	-65.17	48.08	8.03	39.95	-49.01	-13.00	-36.01	Peak
6	11112.52	-59.50	52.93	8.89	40.59	-38.27	-13.00	-25.27	Peak
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBn	ı limit	t
1	14372.04	-69.66	52.90	10.67	42.15	-48.24	-13.00	-35.24	Peak
2	19484.53	-70.03	55.83	18.58	45.60	-41.22	-13.00	-28.22	2 Peak
Test ch	annel:	512		F	Polarization	n:	Verti	cal	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
37.077.000	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	diagnitus. Ia
1	97.78	-82.32	25.78	1.85	30.54	-85.23	-13.00	-72.23	Peak
2	948.05	-77.06	29.13	6.37	28.98	-70.54	-13.00	-57.54	Peak
3	3700.26	-46.60	42.32	5.22	40.76	-39.82	-13.00	-26.82	Peak
4	5560.50	-40.32	43.94	6.46	39.64	-29.56	-13.00	-16.56	Peak
5	7413.73	-62.68	48.57	7.72	39.91	-46.30	-13.00	-33.30	Peak
6	11112.52	-61.22	52.89	8.89	40.59	-40.03	-13.00	-27.03	Peak
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBm	limit	
1	14249.63	-70.85	53.07	10.45	42.10	-49.43	-13.00		
2	19493.30	-71.13	55.83	18.58	45.61	-42.33	-13.00		

Note: Measurements of the 12-20GHz segment were performed on all three channels, and only the worst channel was put in the report.

Test ch	annel:	661			Polarization:			rizontal	
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark
1	39.75	-82.73	27.74	1.15	30.96	-84.80	-13.00	-71.80	Peak
2	634.94	-80.84	28.85	5.08	29.46	-76.37	-13.00	-63.37	Peak
3	3776.39	-54.92	42.21	5.25	40.63	-48.09	-13.00	-35.09	Peak
4	4996.69	-63.51	44.35	6.00	40.20	-53.36	-13.00	-40.36	Peak
5	5660.47	-51.77	43.81	6.57	39.49	-40.88	-13.00	-27.88	Peak
6	10944.09	-65.43	52.78	8.82	40.64	-44.47	-13.00	-31.47	Peak
Test ch	annel:	661			Polarizatio	n:	Ve	rtical	
Mark	Frequency	Reading	Antenna	Cable	Preamp	Level	Limit	t Over	Remark
	MHZ	dBm	dB	dB	dB	dBm	dBr	n limit	
1	95.74	-78.91	25.81	1.83	30.58	-81.85	-13.00	-68.85	Peak
2	623.87	-80.21	27.93	5.03	29.53	-76.78	-13.00	-63.78	Peak
3	3776.39	-45.33	42.09	5.25	40.63	-38.62	-13.00	-25.62	Peak
4	5660.47	-46.34	43.97	6.57	39.49	-35.29	-13.00	-22.29	Peak
	7547.01	-63.38	48.34	7.83	39.94	-47.15	-13.00	-34.15	Peak
5	/54/.01	-03.30							

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Test cha	annel:	810			Polarization	:	Horiz	Horizontal		
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	58.52	-83.15	24.38	1.40	30.71	-88.08	-13.00	-75.08	Peak	
2	948.05	-77.17	29.40	6.37	28.98	-70.38	-13.00	-57.38	Peak	
3	3824.76	-54.31	42.07	5.28	40.55	-47.51	-13.00	-34.51	Peak	
4	5732.97	-44.69	43.91	6.65	39.39	-33.52	-13.00	-20.52	Peak	
5	9019.05	-65.94	48.56	8.41	39.99	-48.96	-13.00	-35.96	Peak	
6	11486.41	-64.77	52.98	9.19	40.21	-42.81	-13.00	-29.81	Peak	
Test channel:		810			Polarization:		Vertical			
Mark	Frequency MHz	Reading dBm	Antenna dB	Cable dB	Preamp dB	Level dBm	Limit dBm	Over limit	Remark	
1	109.43	-81.06	24.51	1.96	30.35	-84.94	-13.00	-71.94	Peak	
2	948.05	-75.44	29.13	6.37	28.98	-68.92	-13.00	-55.92	Peak	
3	3824.76	-51.29	41.96	5.28	40.55	-44.60	-13.00	-31.60	Peak	
4	5732.97	-58.19	44.05	6.65	39.39	-46.88	-13.00	-33.88	Peak	
5	7643.68	-61.41	48.32	7.90	39.97	-45.16	-13.00	-32.16	Peak	
					40.21	-42.34	-13.00	-29.34	Peak	

-----End of the report-----