

No. 1 Workshop, M-10, Middle section, Science & Technology Park,

Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Report No.: SZEM180400252003

Fax: +86 (0) 755 2671 0594 Page: 1 of 33

TEST REPORT

Application No.: SZEM1804002520CR **Applicant:** Sensoro Co., LTD.

Address of Applicant: Room 2807 Building 1B, Wangjing SOHO, No 10 Wangjing Street,

Chaoyang District, Beijing, China

Manufacturer: Sensoro Co., LTD.

Address of Manufacturer: Room 2807 Building 1B, Wangjing SOHO, No 10 Wangjing Street,

Chaoyang District, Beijing, China

Factory: Sensoro Co., LTD.

Address of Factory: Room 2807 Building 1B, Wangjing SOHO, No 10 Wangjing Street,

Chaoyang District, Beijing, China

Equipment Under Test (EUT):

EUT Name: α Humiture Sensor

Model No.: IEQ.TH-14B
Trade mark: SENSORO

FCC ID: 2ADYO-S0015B5

Standard(s): 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2018-04-03

Date of Test: 2018-04-19 to 2018-05-25

Date of Issue: 2018-06-06

Test Result: Pass*



EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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^{*} In the configuration tested, the EUT complied with the standards specified above.



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	Revision Record					
Version Chapter Date Modifier Rem						
01		2018-06-06		Original		

Authorized for issue by:		
	Vincent Chen	
	Vincent Chen /Project Engineer	
	EvicFu	
	Eric Fu /Reviewer	



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2 Test Summary

Radio Spectrum Technical Requirement					
Item	Standard	Method	Requirement	Result	
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass	

Radio Spectrum Matter Part						
Item	Standard	Method	Requirement	Result		
20dB Bandwidth	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass		
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass		
Restricted Band Around Fundamental Frequency	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass		
Radiated Emissions	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.4&6.5&6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Fail		



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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by Lithium Battery DC 3.6V
Internal source:	32MHz
Antenna Gain:	1.5dBi
Antenna Type:	Dipole Antenna
Modulation Type:	CSS
Operation Frequency:	902.3MHz-927.5MHz
Channel Number:	127
Channel Spacing:	200KHz

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	±7.25 x 10 ⁻⁸
2	Duty cycle	±0.37%
3	Occupied Bandwidth	±3%
4	RF conducted power	±0.75dB
5	RF power density	±2.84dB
6	Conducted Spurious emissions	±0.75dB
7	DE Dadiated naver	±4.5dB (below 1GHz)
/	RF Radiated power	±4.8dB (above 1GHz)
0	Dadiated Courieus emission test	±4.5dB (Below 1GHz)
8	Radiated Spurious emission test	±4.8dB (Above 1GHz)
9	Temperature test	±1 ℃
10	Humidity test	±3%
11	Supply voltages	±1.5%
12	Time	±3%



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC -Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
DC Power Supply	ZhaoXin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Spectrum Analyzer	Rohde & Schwarz	FSP	SEM004-06	2017-09-27	2018-09-26
Measurement Software	JS Tonscend	JS1120-2 BT/WIFI V2.	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2017-07-13	2018-07-12
Attenuator	Weinschel Associates	WA41	SEM021-09	N/A	N/A
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2017-09-27	2018-09-26
Power Meter	Rohde & Schwarz	NRVS	SEM014-02	2017-09-27	2018-09-26

Field Strength of the Fu	Field Strength of the Fundamental Signal (15.249(a))							
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date			
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12			
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A			
Coaxial Cable	SGS	N/A	SEM026-01	2017-07-13	2018-07-12			
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01			
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26			
Horn Antenna (1- 18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12			
Horn Antenna(15GHz- 40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16			
Pre-amplifier (0.1- 1300MHz)	HP	8447D	SEM005-02	2017-09-27	2018-09-26			
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-27			
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01			
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01			
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26			
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21			
Band filter	N/A	N/A	SEM023-01	N/A	N/A			

Restricted Band Around Fundamental Frequency							
Equipment Manufacturer Model No Inventory No Cal Date Cal Due Dat							
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12		
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A		

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Coaxial Cable	SGS	N/A	SEM026-01	2017-07-13	2018-07-12
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1- 18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna(15GHz- 40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1- 1300MHz)	HP	8447D	SEM005-02	2017-09-27	2018-09-26
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-27
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
Band filter	N/A	N/A	SEM023-01	N/A	N/A

Radiated Emissions					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2018-03-13	2021-03-12
Measurement Software	AUDIX	e3 V8.2014-6- 27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2017-07-13	2018-07-12
Spectrum Analyzer	Rohde & Schwarz	FSU43	SEM004-08	2018-04-02	2019-04-01
BiConiLog Antenna (26- 3000MHz)	ETS-Lindgren	3142C	SEM003-01	2017-06-27	2020-06-26
Horn Antenna (1- 18GHz)	Rohde & Schwarz	HF907	SEM003-07	2018-04-13	2021-04-12
Horn Antenna(15GHz- 40GHz)	Schwarzbeck	BBHA 9170	SEM003-15	2017-10-17	2020-10-16
Pre-amplifier (0.1- 1300MHz)	HP	8447D	SEM005-02	2017-09-27	2018-09-26
Low Noise Amplifier(100MHz- 18GHz)	Black Diamond Series	BDLNA-0118- 352810	SEM005-05	2017-09-27	2018-09-27
Pre-amplifier(18-26GHz)	Rohde & Schwarz	CH14-H052	SEM005-17	2018-04-02	2019-04-01
Pre-amplifier(26GHz- 40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2018-04-02	2019-04-01
DC Power Supply	Zhao Xin	RXN-305D	SEM011-02	2017-09-27	2018-09-26
Active Loop Antenna	ETS-Lindgren	6502	SEM003-08	2017-08-22	2020-08-21
Band filter	N/A	N/A	SEM023-01	N/A	N/A

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General used equipmen	t				
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2017-09-29	2018-09-28
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2017-09-29	2018-09-28
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2017-09-29	2018-09-28
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2018-04-08	2019-04-07



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 Limit:

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

6.1.2 Conclusion

Standard Requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently

attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is Dipole Antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.5dBi.



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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215 Test Method: ANSI C63.10 (2013) Section 6.9

Limit: N/A

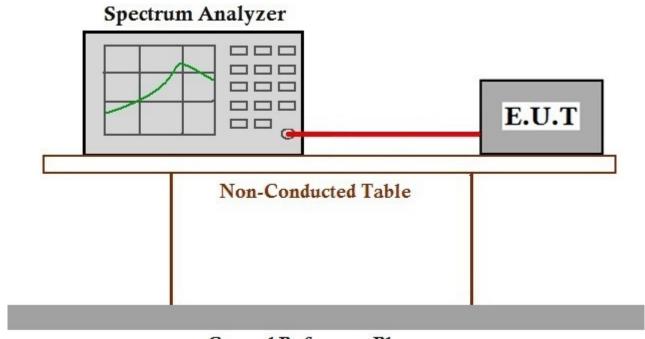
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 45.8 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram



Ground Reference Plane

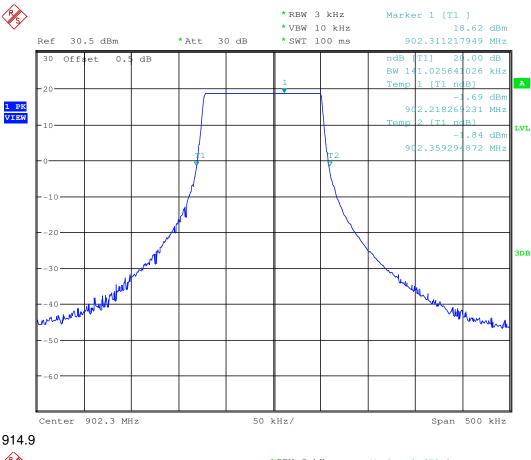
7.1.3 Measurement Procedure and Data

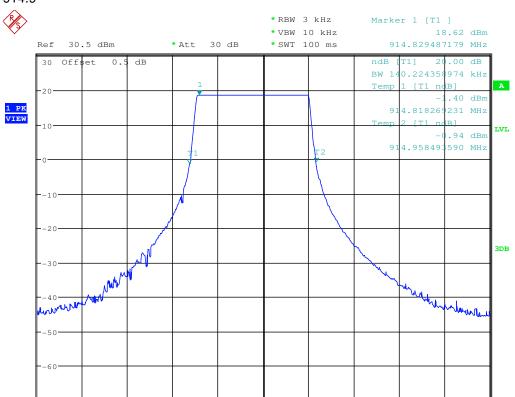


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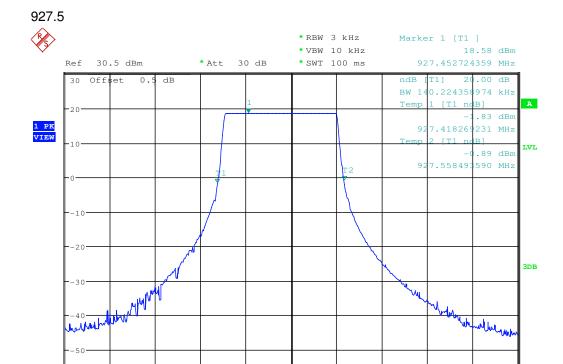
Center 927.5 MHz

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Span 500 kHz



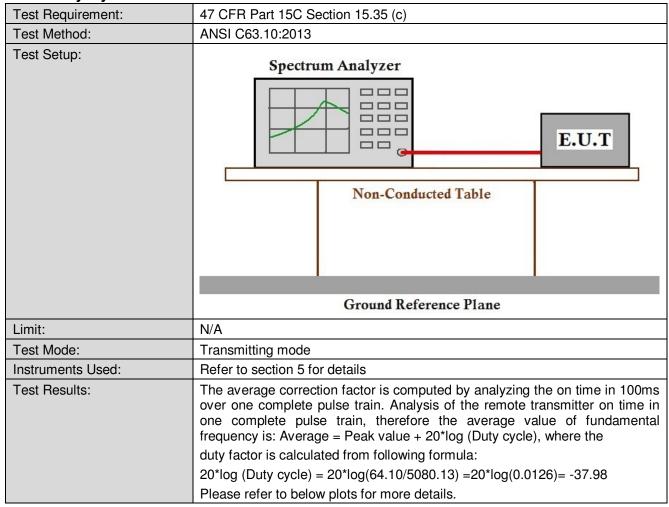
50 kHz/



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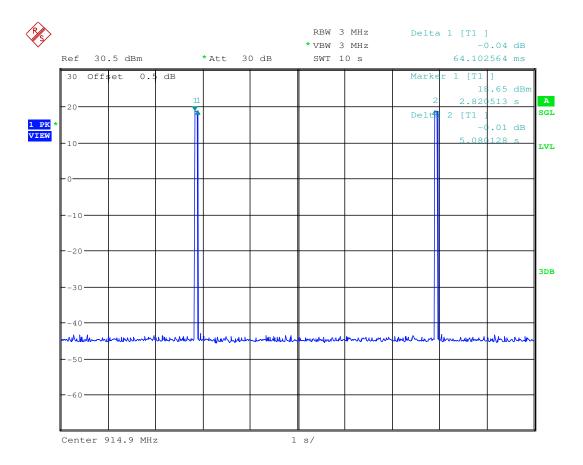
7.2 Duty Cycle





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7.3 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
0400MH= 0400 EMH=	94.0	Average Value
2400MHz-2483.5MHz	114.0	Peak Value



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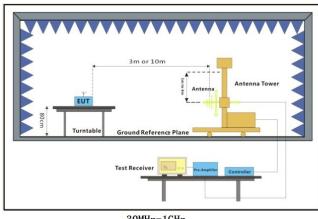
7.3.1 E.U.T. Operation

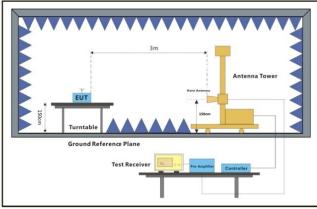
Operating Environment:

Temperature: 23.5 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram





30MHz-1GHz

Above 1GHz

7.3.3 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

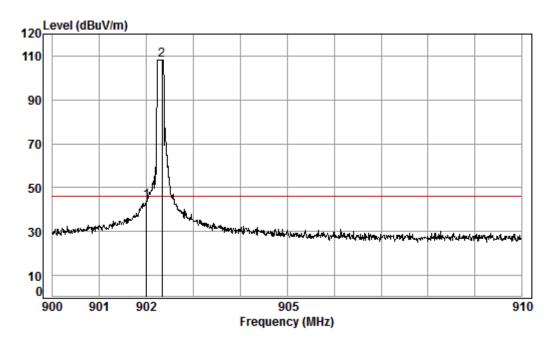
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Mode:a; Polarization:Horiaontal, Channel: Low



Condition: 3m HORIZONTAL

Job No. : 02520CR

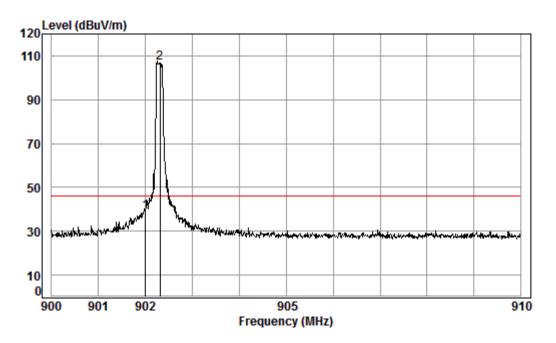
Frequenc y (MHz)	Cable Loss(dB)	Ant Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV/m)	Average factor (dB)	Level @ 3m (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Remark
902.30	3.60	29.81	27.07	102.00		108.34	114.0	-4.34	Peak
902.30	3.60	29.81	27.07	102.00	-37.98	70.36	94.0	-23.64	Average
902.00	3.60	29.81	27.07	36.32		42.66	46.0	-3.34	Peak



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Mode:a; Polarization: Vertical, Channel: Low



Condition: 3m VERTICAL Job No. : 02520CR

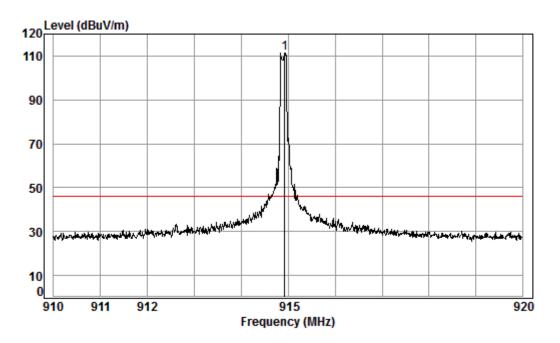
Frequenc y (MHz)	Cable Loss(dB)	Ant Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV/m)	Average factor (dB)	Level @ 3m (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Remark
902.30	3.60	29.81	27.07	100.32		106.66	114.0	-7.34	Peak
902.30	3.60	29.81	27.07	100.32	-37.98	68.68	94.0	-25.32	Average
902.00	3.60	29.81	27.07	32.58		38.92	46.0	-7.08	Peak



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Mode:a; Polarization:Vertical, Channel: Middle



Condition: 3m HORIZONTAL

Job No. : 02520CR

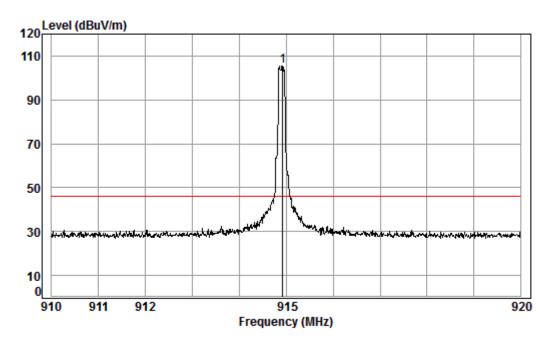
Frequenc y (MHz)	Cable Loss(dB)	Ant Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV/m)	Average factor (dB)	Level @ 3m (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Remark
914.90	3.62	29.88	27.03	104.86		111.33	114.0	-2.67	Peak
914.90	3.62	29.88	27.03	104.86	-37.98	73.35	94.0	-20.65	Average



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Mode:a; Polarization:Horiaontal, Channel: Middle



Condition: 3m VERTICAL Job No. : 02520CR

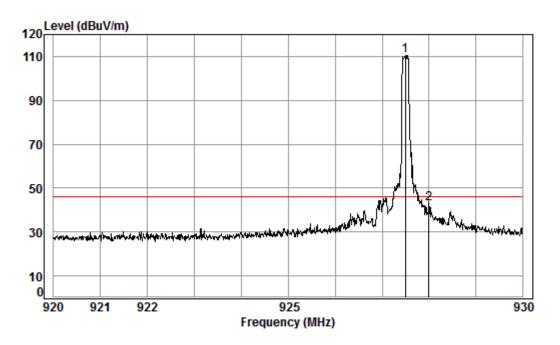
Frequenc y (MHz)	Cable Loss(dB)	Ant Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV/m)	Average factor (dB)	Level @ 3m (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Remark
914.90	3.62	29.88	27.03	99.05		105.52	114.0	-8.48	Peak
914.90	3.62	29.88	27.03	99.05	-37.98	67.54	94.0	-26.46	Average



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Mode:a; Polarization:Horiaontal, Channel: High



Condition: 3m HORIZONTAL

Job No. : 02520CR

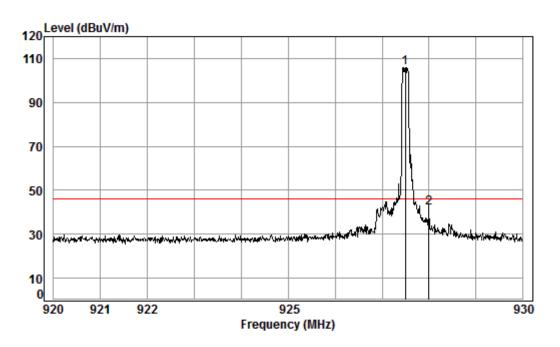
Frequenc y (MHz)	Cable Loss(dB)	Ant Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV/m)	Average factor (dB)	Level @ 3m (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Remark
927.5	3.63	29.94	26.99	103.99		110.57	114.0	-3.43	Peak
927.5	3.63	29.94	26.99	103.99	-37.98	72.59	94.0	-21.41	Average
928.0	3.63	29.95	26.99	36.26		42.85	46.0	-3.15	Peak



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Mode:a; Polarization:Vertical, Channel: High



Condition: 3m VERTICAL

Job No. : 02520CR

Test mode: a

Cable Ant Preamp Read Limit 0ver Loss Factor Factor Limit Freq Level Line Level MHz dB dB/m dB dBuV dBuV/m dBuV/m dB

1 pp 927.49 3.63 29.94 26.99 99.42 106.00 46.00 60.00 2 928.00 3.63 29.95 26.99 35.43 42.02 46.00 -3.98

Frequenc y (MHz)	Cable Loss(dB)	Ant Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV/m)	Average factor (dB)	Level @ 3m (dBuV/m)	Limit Line (dBuV/m)	Margin (dB)	Remark
927.5	3.63	29.94	26.99	99.42		106.00	114.0	-8.0	Peak
927.5	3.63	29.94	26.99	95.71	-37.98	64.31	94.0	-29.69	Average
928.0	3.63	29.95	26.99	35.43		42.02	46.0	-3.98	Peak



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7.4 Radiated Emissions

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3



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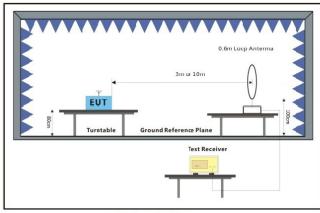
7.4.1 E.U.T. Operation

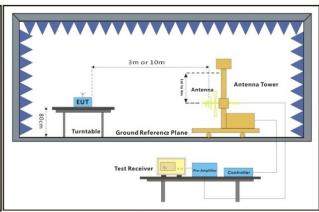
Operating Environment:

Temperature: 23.5 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

Test mode a:TX mode_Keep the EUT in transmitting with modulation mode.

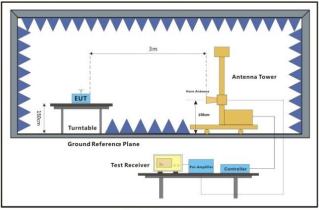
7.4.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz

7.4.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

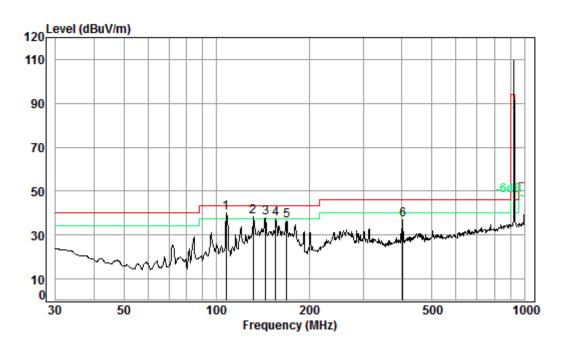


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Below 1GHz:

Mode:a; Polarization:Horizontal;



Condition: 3m HORIZONTAL

Job No. : 02520CR

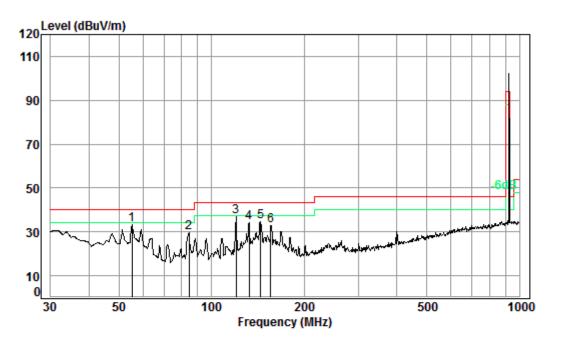
	Freq						Limit Line	
-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	107.51	1.22	13.64	27.51	52.80	40.15	43.50	-3.35
2	131.76	1.28	13.46	27.52	51.33	38.55	43.50	-4.95
3	144.33	1.31	14.11	27.52	50.16	38.06	43.50	-5.44
4	155.91	1.33	15.15	27.52	48.49	37.45	43.50	-6.05
5	169.01	1.35	15.69	27.52	46.85	36.37	43.50	-7.13
6	403.25	2.21	22.48	27.74	39.87	36.82	46.00	-9.18



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Mode:a; Polarization:Vertical;



Condition: 3m VERTICAL

Job No. : 02520CR

	Frea			Preamp Factor				
_	MHz	dB		dB				
1	55.22	0.80	13.66	27.58	46.32	33.20	40.00	-6.80
2	84.41	1.10	12.50	27.50	43.70	29.80	40.00	-10.20
3 pp	120.28			27.52				
4 5	132.69 144.33			27.52 27.52				
6	155.91			27.52				

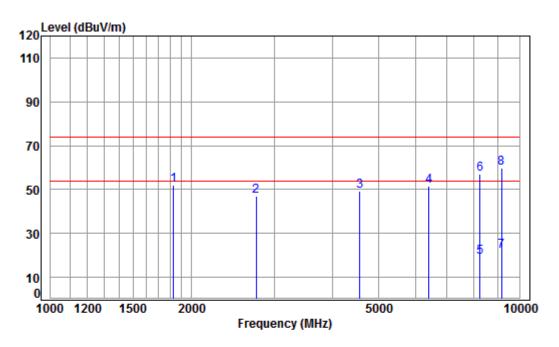


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Above 1GHz:

Mode:a; Polarization:Horizontal, Channel: Low



Condition: 3m HORIZONTAL

Job No : 02520CR

Mode : 902.3 TX SE

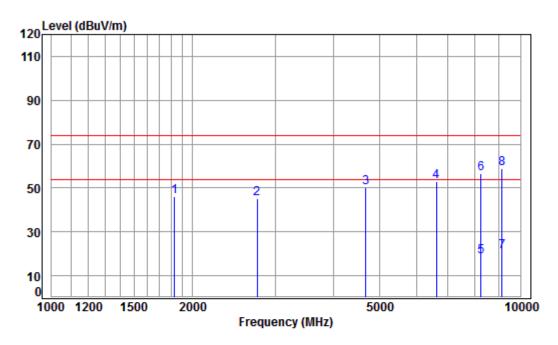
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1830.000	5.08	27.18	41.61	61.42	52.07	74.00	-21.93	peak
2	2747.894	5.81	29.84	42.01	53.56	47.20	74.00	-26.80	Peak
3	4570.882	7.64	33.69	42.43	50.17	49.07	74.00	-24.93	Peak
4	6405.000	11.10	35.37	41.40	46.40	51.47	74.00	-22.53	peak
5	8235.000	10.11	36.85	39.80	12.01	19.17	54.00	-34.83	Average
6	8235.000	10.11	36.85	39.80	49.88	57.04	74.00	-16.96	Peak
7 av	9150.000	10.48	37.32	38.41	12.71	22.10	54.00	-31.90	Average
8 pp	9150.000	10.48	37.32	38.41	50.57	59.96	74.00	-14.04	Peak



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Mode:a; Polarization: Vertical, Channel: Low



Condition: 3m VERTICAL Job No : 02520CR Mode : 902.3 TX SE

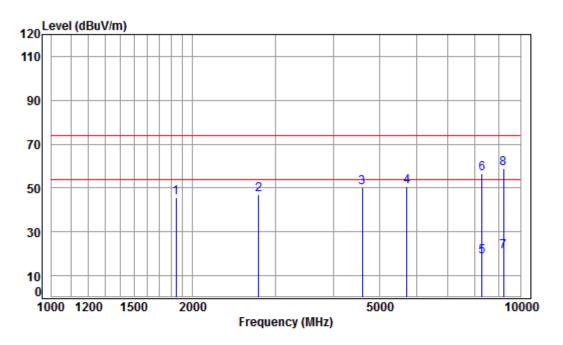
		Frea			Preamp Factor					Remark
	_									
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1830.000	5 08	27 18	41.61	55 33	/E Q8	74 00	28 02	noak
2		2745.000								•
3		4677.352								•
4		6622.165	11.19	35.68	41.12	46.99	52.74	74.00	-21.26	peak
5		8241.381	10.11	36.85	39.80	11.54	18.70	54.00	-35.30	Average
6		8241.381	10.11	36.85	39.80	49.41	56.57	74.00	-17.43	Peak
7	av	9141.133	10.48	37.32	38.41	11.40	20.79	54.00	-33.21	Average
8	pp	9141.133	10.48	37.32	38.41	49.26	58.65	74.00	-15.35	Peak



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Mode:a; Polarization:Horizontal, Channel: Middle



Condition: 3m HORIZONTAL

Job No : 02520CR

Mode : 914.9 TX SE

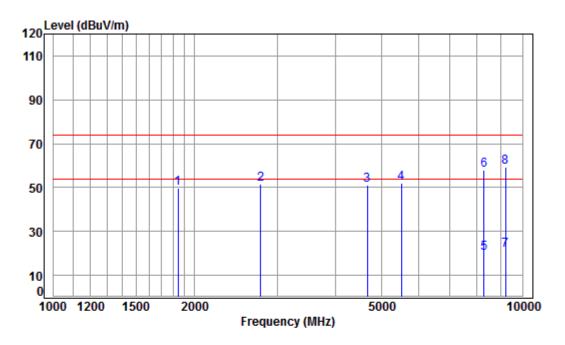
	Гиса	Cable		Preamp					Domanic
	Freq	LOSS	Factor	Factor	rever	revei	Line	Limit	Kemark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1842.000	5.07	27.22	41.61	55.04	45.72	74.00	-28.28	Peak
2	2763.000	5.82	29.90	42.02	53.16	46.86	74.00	-27.14	Peak
3	4602.566	7.67	33.73	42.44	51.40	50.36	74.00	-23.64	Peak
4	5727.960	9.65	34.83	41.83	48.07	50.72	74.00	-23.28	Peak
5	8289.000	10.14	36.88	39.71	11.48	18.79	54.00	-35.21	Average
6	8289.000	10.14	36.88	39.71	49.33	56.64	74.00	-17.36	Peak
7 av	9210.000	10.52	37.37	38.31	11.45	21.03	54.00	-32.97	Average
8 pp	9210.000	10.52	37.37	38.31	49.32	58.90	74.00	-15.10	Peak



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Mode:a; Polarization:Vertical, Channel: Middle



Condition: 3m VERTICAL Job No : 02520CR

Mode : 914.9 TX SE

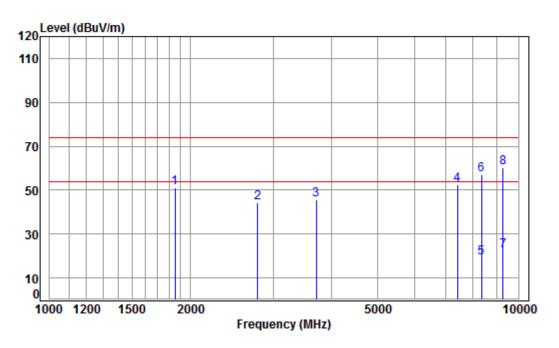
		Cable		Preamp					
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1842.000	5.07	27.22	41.61	59.22	49.90	74.00	-24.10	Peak
2	2763.000	5.82	29.90	42.02	58.06	51.76	74.00	-22.24	Peak
3	4666.594	7.74	33.81	42.45	51.83	50.93	74.00	-23.07	Peak
4	5520.774	8.92	34.62	42.02	50.65	52.17	74.00	-21.83	Peak
5	8289.000	10.14	36.88	39.71	12.89	20.20	54.00	-33.80	Average
6	8289.000	10.14	36.88	39.71	50.74	58.05	74.00	-15.95	Peak
7 av	9210.000	10.52	37.37	38.31	12.08	21.66	54.00	-32.34	Average
8 pp	9210.000	10.52	37.37	38.31	49.95	59.53	74.00	-14.47	Peak



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Mode:a; Polarization:Horizontal, Channel: High



Condition: 3m HORIZONTAL

Job No : 02520CR

Mode : 927.5 TX SE

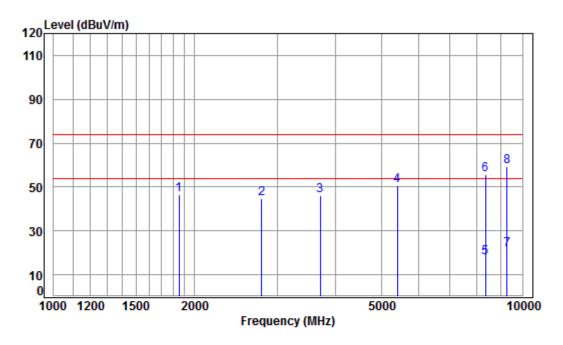
		Freq	Cable Loss		Preamp Factor					Remark
	-	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	——dB	
1		1854.000	5.05	27.27	41.62	60.19	50.89	74.00	-23.11	Peak
2		2781.000	5.83	29.98	42.02	50.68	44.47	74.00	-29.53	Peak
3		3708.000	6.68	32.13	42.27	49.06	45.60	74.00	-28.40	Peak
4		7416.000	10.02	36.23	40.57	46.79	52.47	74.00	-21.53	Peak
5		8343.000	10.17	36.90	39.65	11.89	19.31	54.00	-34.69	Average
6		8343.000	10.17	36.90	39.65	49.74	57.16	74.00	-16.84	Peak
7	av	9270.000	10.56	37.42	38.22	12.57	22.33	54.00	-31.67	Average
8	pp	9270.000	10.56	37.42	38.22	50.44	60.20	74.00	-13.80	Peak



Report No.: SZEM180400252003

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Mode:a; Polarization: Vertical, Channel: High



Condition: 3m VERTICAL Job No : 02520CR

Mode : 927.5 TX SE

	_	. ,2/,		JL						
			Cable	Ant	Preamp	Read		Limit	0ver	
		Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
		MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1		1854.000	5.05	27.27	41.62	55.77	46.47	74.00	-27.53	Peak
2		2781.000	5.83	29.98	42.02	50.79	44.58	74.00	-29.42	Peak
3		3708.000	6.68	32.13	42.27	49.51	46.05	74.00	-27.95	Peak
4		5407.543	8.71	34.53	42.12	49.65	50.77	74.00	-23.23	Peak
5		8343.000	10.17	36.90	39.65	10.46	17.88	54.00	-36.12	Average
6		8343.000	10.17	36.90	39.65	48.31	55.73	74.00	-18.27	Peak
7	av	9270.000	10.56	37.42	38.22	11.52	21.28	54.00	-32.72	Average
8	pp	9270.000	10.56	37.42	38.22	49.39	59.15	74.00	-14.85	Peak

- End of the Report -