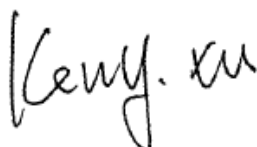


## TEST REPORT

**Application No.:** SZCR2105021147AT  
**Applicant:** SYBER SENSE IOT COMPANY LIMITED  
**Address of Applicant:** FLAT/RM 10 BLK A 16/F HI TECH INDUSTRIAL CENTRE 5-21 PAK TIN PAR STREET TSUEN WAN Hong Kong China  
**Manufacturer:** SYBER SENSE IOT COMPANY LIMITED  
**Address of Manufacturer:** 5/F, Xiagu Building, Meishenghuigu Hi-tech Innovation Park, 83 Dabao Road, Baoan, Shenzhen, China.  
**Factory:** SYBER SENSE IOT COMPANY LIMITED  
**Address of Factory:** 3/F, Building A, Hanhaida High-tech Park, DatianYang C District, Shiwei Community, Matian Street, Guangming New District, Shenzhen, China.  
**Equipment Under Test (EUT):**  
**EUT Name:** SS Security Panel  
**Model No.:** XP02US-SS-1433-00  
**Trade Mark:** Syber Sense  
**FCC ID:** 2AVDCXP02US-SS-1433  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.249  
**Date of Receipt:** 2021-06-09  
**Date of Test:** 2021-06-12 to 2021-06-29  
**Date of Issue:** 2021-06-30

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

\* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu  
EMC Laboratory Manager

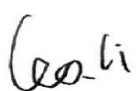
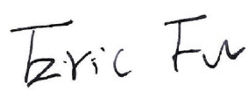


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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2021-06-30		Original

Authorized for issue by:			
		 Leo Li/Project Engineer	
		 Eric Fu/Reviewer	

## 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))		ANSI C63.10 (2013) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Radiated Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.209 & 15.249 (a)(d)	Pass
Radiated Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a)(d)	Pass

Emission Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass



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## 4 General Information

### 4.1 Details of E.U.T.

Power supply:	DC 12V from adapter input AC 120V/60Hz Adapter Model: SW-120250 Input: 100-240V~50/60Hz 0.68A Max Output: DC 12V 2500mA Lithium Ion Battery: 3.7V 3600mAh rechargeable battery which charged by adapter
Cable(s):	DC cable: 185cm unshielded Type-C to RJ45 cable: 17cm unshielded
Operation Frequency:	908.4MHz, 916MHz
Modulation Type:	FSK; GFSK
Number of Channels:	2
Antenna Type:	Inverted-F Antenna
Antenna Gain:	3dBi

### 4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

### 4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.0\text{dB}$ (150kHz to 30MHz)
20dB Bandwidth	$\pm 3\%$
Field Strength of the Fundamental Signal (15.249(a))	$\pm 4.5\text{dB}$ (Below 1GHz); $\pm 4.8\text{dB}$ (Above 1GHz)
Radiated Emissions Below 1GHz	$\pm 4.5\text{dB}$
Radiated Emissions Above 1GHz	$\pm 4.8\text{dB}$

**Remark:**

The  $U_{\text{lab}}$  (lab Uncertainty) is less than  $U_{\text{CISPR}}$  (CISPR Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

#### 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:

- **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 (Member No. 1937)**

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. Shenzhen EMC laboratory 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.

- **Innovation, Science and Economic Development Canada**

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

CAB identifier: CN0006.

IC#: 4620C.

#### 4.6 Deviation from Standards

None

#### 4.7 Abnormalities from Standard Conditions

None



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## 5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2019-06-13	2022-06-12
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2020-07-10	2021-07-09
LISN	Rohde&Schwarz	ENV216	SEM007-01	2020-09-23	2021-09-22
LISN	ETS-LINDGREN	3816/2	SEM007-02	2021-03-24	2022-03-25

20dB Bandwidth					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2021-03-23	2022-03-22
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2021-03-24	2022-03-23
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-02	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2021-04-08	2022-04-07

Field Strength of the Fundamental Signal (15.249(a))					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09



Radiated Emissions Below 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2020-07-19	2023-07-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2020-11-02	2021-11-01
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-02	2019-05-24	2022-05-23
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2021-03-24	2022-03-23
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2020-07-10	2021-07-09

Radiated Emissions Above 1GHz					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2021-03-26	2024-03-25
EXA Signal Analyzer	Agilent Technologies Inc	N9010A	SEM004-12	2021-02-01	2022-01-31
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2021-04-14	2024-04-13
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-0126	SEM004-11	2020-09-23	2021-09-22
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2020-07-10	2021-07-09

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-15	2021-09-14
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-15	2021-09-14
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2021-03-30	2022-03-29



## 6 Radio Spectrum Technical Requirement

### 6.1 Antenna Requirement

#### 6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

#### 6.1.2 Conclusion

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 use an unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

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.

This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site.

However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3dBi.

Antenna location: Refer to Internal photos



## 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

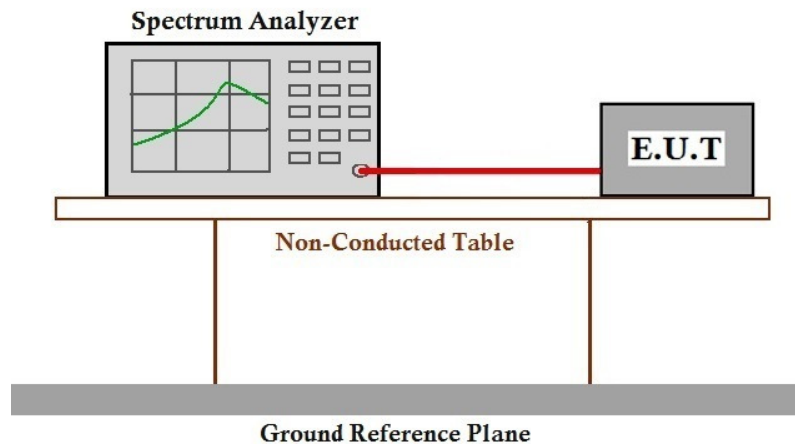
#### 7.1.1 E.U.T. Operation

Operating Environment:  
Temperature: 23.0 °C Humidity: 49.6 % RH Atmospheric Pressure: 1010 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	03	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	08	TX mode_Keep the EUT in continuously transmitting mode with FSK modulation.
Final test	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with FSK modulation.

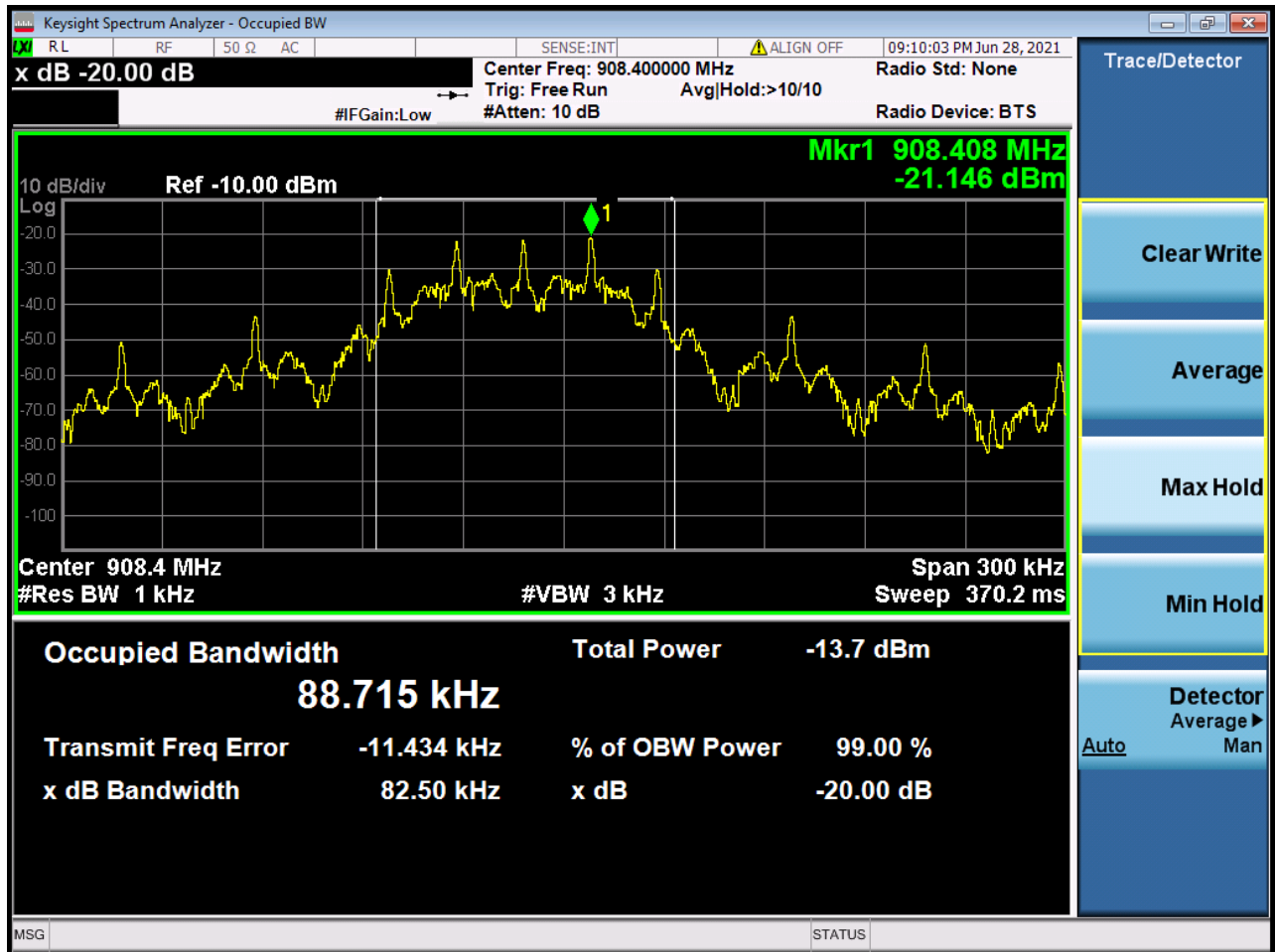
#### 7.1.3 Test Setup Diagram



#### 7.1.4 Measurement Procedure and Data

Test channel(MHz)	20dB bandwidth (KHz)	Results
908.4	82.50	Pass
916	113.0	Pass

Modulation Type: FSK; Test Frequency: 908.4MHz\_





Modulation Type: GFSK; Test Frequency: 916MHz\_





## 7.2 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:

Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

Remark: The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

### 7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 26.7 °C

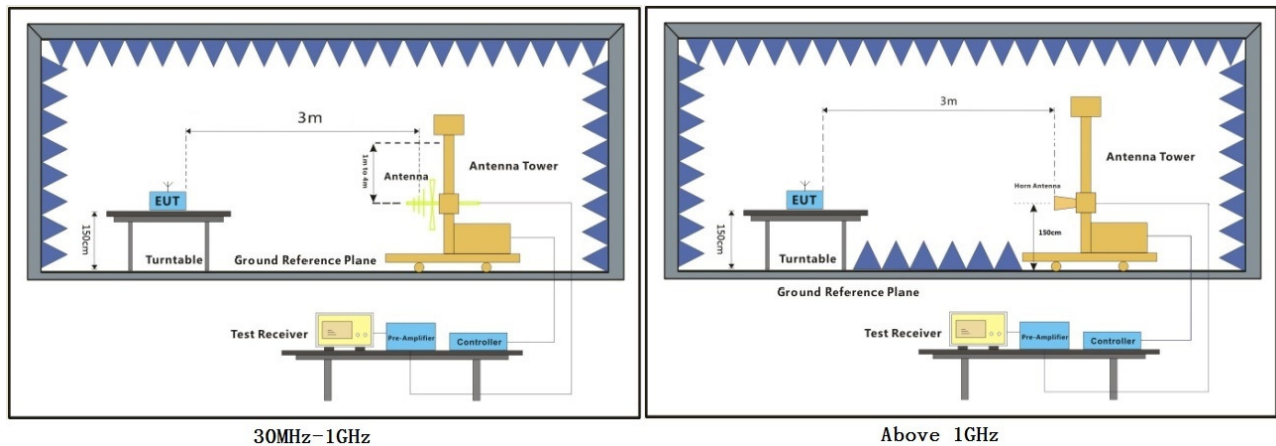
Humidity: 66.0 % RH

Atmospheric Pressure: 1010 mbar

### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	03	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	08	TX mode_Keep the EUT in continuously transmitting mode with FSK modulation.
Final test	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with FSK modulation.

### 7.2.3 Test Setup Diagram

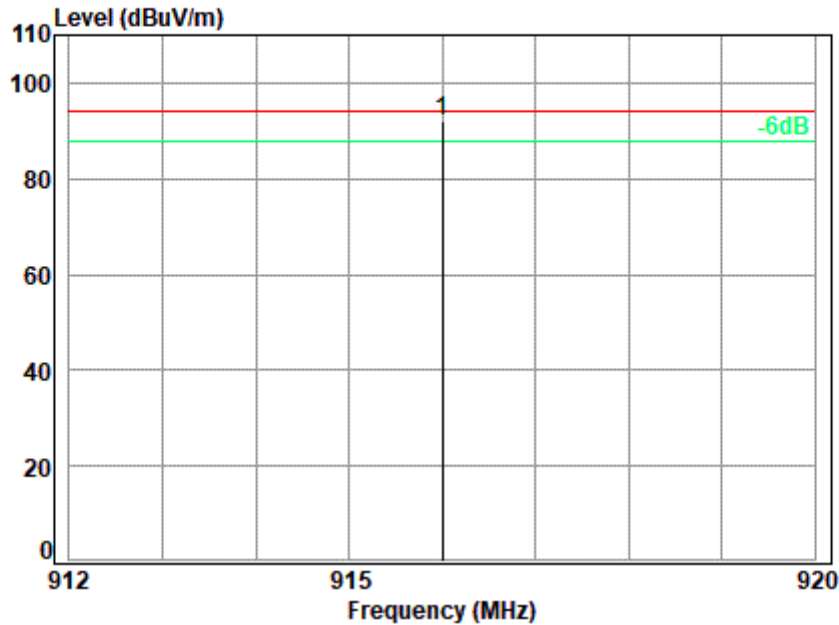


### 7.2.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

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

Test Mode: 04; Polarity: Horizontal

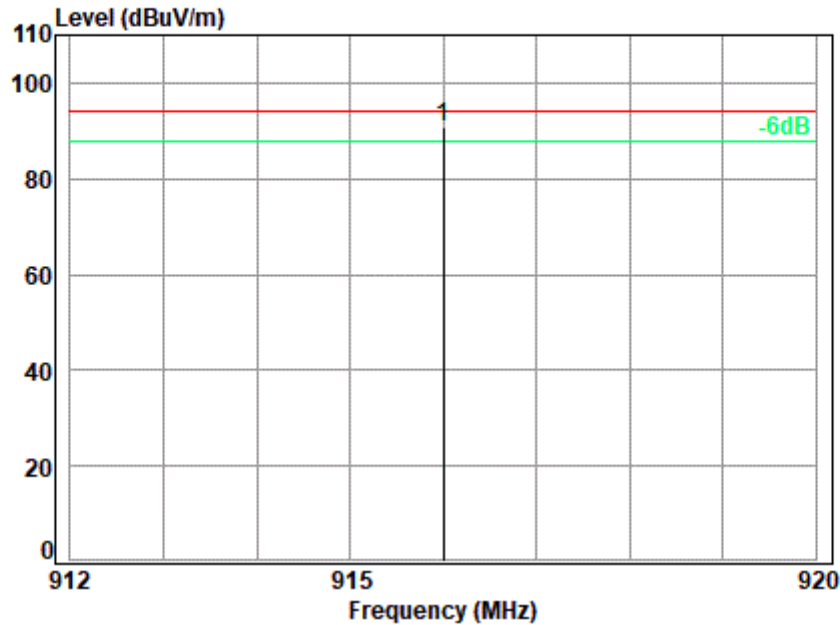


Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 21147AT  
Mode : 916

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 916.00	29.14	3.62	27.08	86.28	91.96	94.00	-2.04	QP



Test Mode: 04; Polarity: Vertical



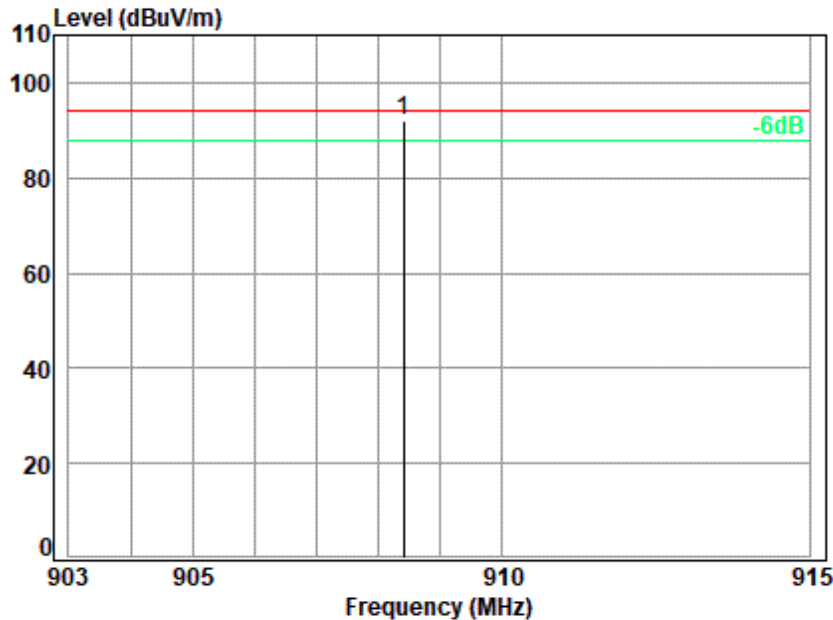
Site : chamber  
Condition: 3m VERTICAL  
Job No. : 21147AT  
Mode : 916

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	916.00	29.14	3.62	27.08	85.29	90.97	94.00 -3.03 QP





Test Mode: 09; Polarity: Horizontal



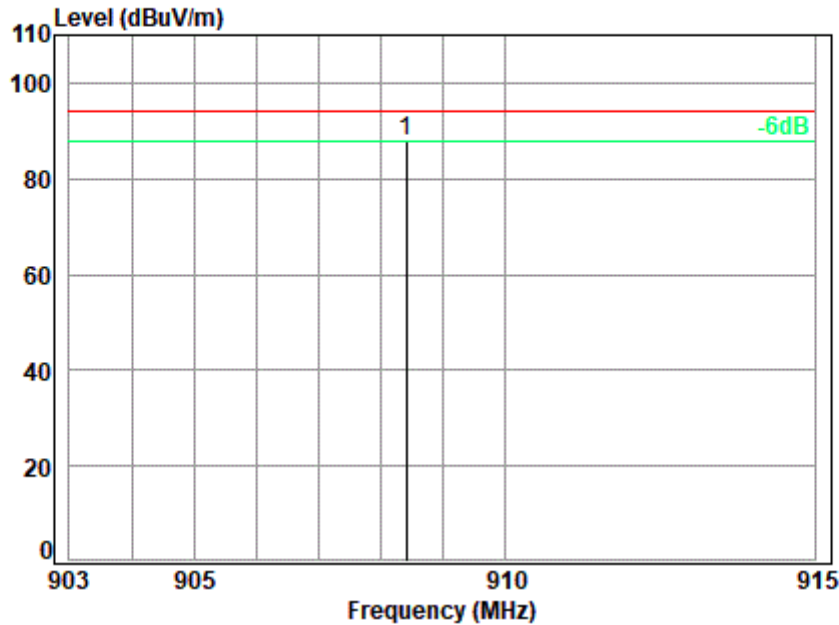
Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 21147AT  
Mode : 908.4

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 908.40	29.03	3.61	27.12	86.41	91.93	94.00	-2.07	QP





Test Mode: 09; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 21147AT  
Mode : 908.4

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 908.40	29.03	3.61	27.12	82.40	87.92	94.00	-6.08	QP



### 7.3 Radiated Emissions Below 1GHz

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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
960-1000	500	3

#### 7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 26.7 °C

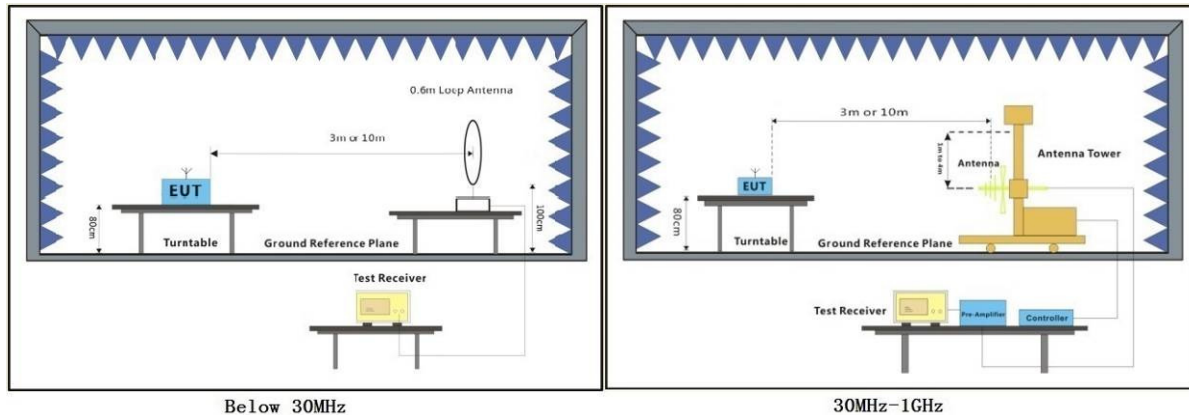
Humidity: 66.0 % RH

Atmospheric Pressure: 1010 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	03	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	08	TX mode_Keep the EUT in continuously transmitting mode with FSK modulation.
Final test	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with FSK modulation.

### 7.3.3 Test Setup Diagram



### 7.3.4 Measurement Procedure and Data

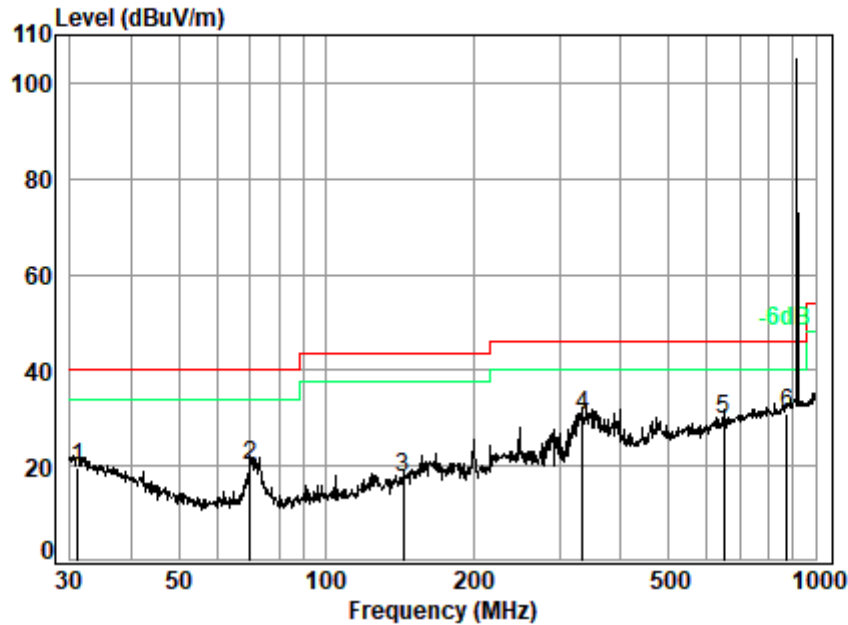
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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 quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



Test Mode: 04; Polarity: Horizontal



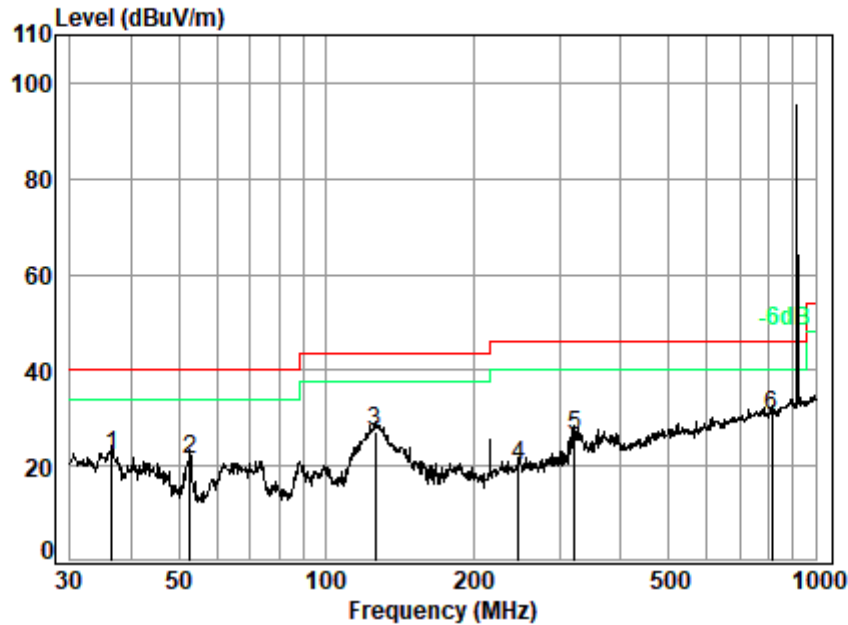
Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 21147AT  
Mode : TX 916

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.07	22.19	0.60	27.73	24.77	19.83	40.00	-20.17 QP
2	69.84	12.69	0.80	27.65	34.17	20.01	40.00	-19.99 QP
3	143.83	13.91	1.31	27.37	29.57	17.42	43.50	-26.08 QP
4	334.86	20.30	2.02	27.07	35.14	30.39	46.00	-15.61 QP
5	649.66	26.30	2.81	28.02	28.52	29.61	46.00	-16.39 QP
6 q	875.25	28.94	3.50	27.30	25.93	31.07	46.00	-14.93 QP





Test Mode: 04; Polarity: Vertical



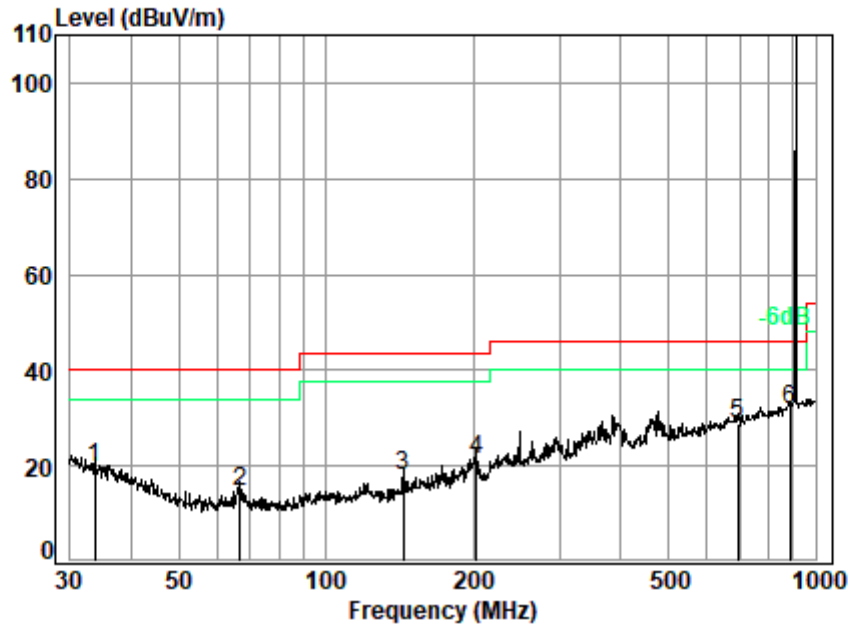
Site : chamber  
Condition: 3m VERTICAL  
Job No. : 21147AT  
Mode : TX 916

	Ant	Cable	Preamp	Read	Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.51	19.57	0.60	27.72	29.76	22.21	40.00 -17.79 QP
2	52.76	13.50	0.80	27.68	34.90	21.52	40.00 -18.48 QP
3	125.89	12.70	1.27	27.45	40.69	27.21	43.50 -16.29 QP
4	247.68	18.11	1.66	27.00	27.18	19.95	46.00 -26.05 QP
5	322.19	19.89	1.97	27.00	31.54	26.40	46.00 -19.60 QP
6 q	813.11	27.90	3.26	27.65	27.02	30.53	46.00 -15.47 QP





Test Mode: 09; Polarity: Horizontal

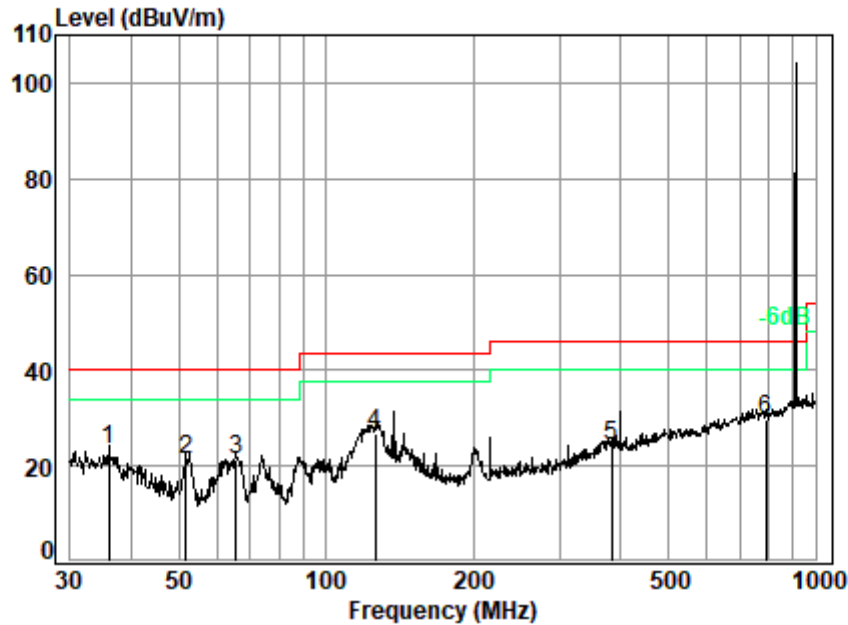


Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 21147AT  
Mode : TX 908.4

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	33.68	20.99	0.60	27.72	25.82	19.69	40.00	-20.31 QP
2	66.73	12.73	0.80	27.65	28.83	14.71	40.00	-25.29 QP
3	143.83	13.91	1.31	27.37	29.98	17.83	43.50	-25.67 QP
4	202.81	15.94	1.42	27.13	31.04	21.27	43.50	-22.23 QP
5	694.42	27.21	2.89	27.93	26.72	28.89	46.00	-17.11 QP
6 q	887.61	29.02	3.56	27.23	26.31	31.66	46.00	-14.34 QP



Test Mode: 09; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 21147AT  
Mode : TX 908.4

	Ant	Cable	Preamp	Read	Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	36.00	19.70	0.60	27.72	30.88	23.46	40.00 -16.54 QP
2	51.66	13.60	0.80	27.68	34.45	21.17	40.00 -18.83 QP
3	65.57	12.78	0.80	27.65	35.26	21.19	40.00 -18.81 QP
4	125.89	12.70	1.27	27.45	40.11	26.63	43.50 -16.87 QP
5	382.59	22.23	2.15	27.31	27.06	24.13	46.00 -21.87 QP
6 q	790.62	27.89	3.18	27.75	26.57	29.89	46.00 -16.11 QP



### 7.4 Radiated Emissions Above 1GHz

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

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

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

#### 7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C

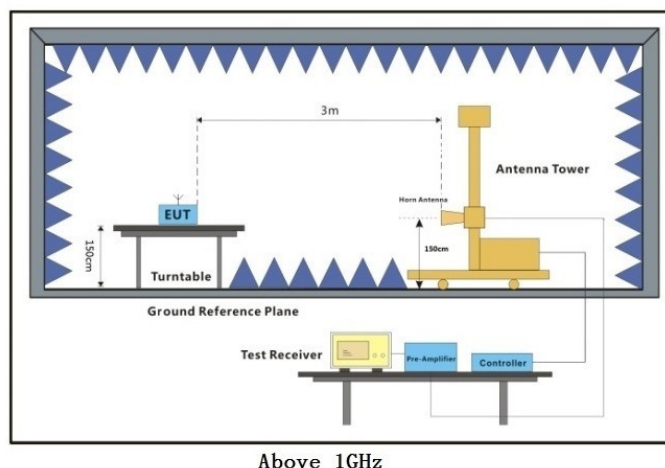
Humidity: 54.2 % RH

Atmospheric Pressure: 1010 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	03	TX mode_Keep the EUT in continuously transmitting mode with GFSK modulation.
Final test	04	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Pre-scan	08	TX mode_Keep the EUT in continuously transmitting mode with FSK modulation.
Final test	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with FSK modulation.

#### 7.4.3 Test Setup Diagram



#### 7.4.4 Measurement Procedure and Data

- a. 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.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. 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 or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

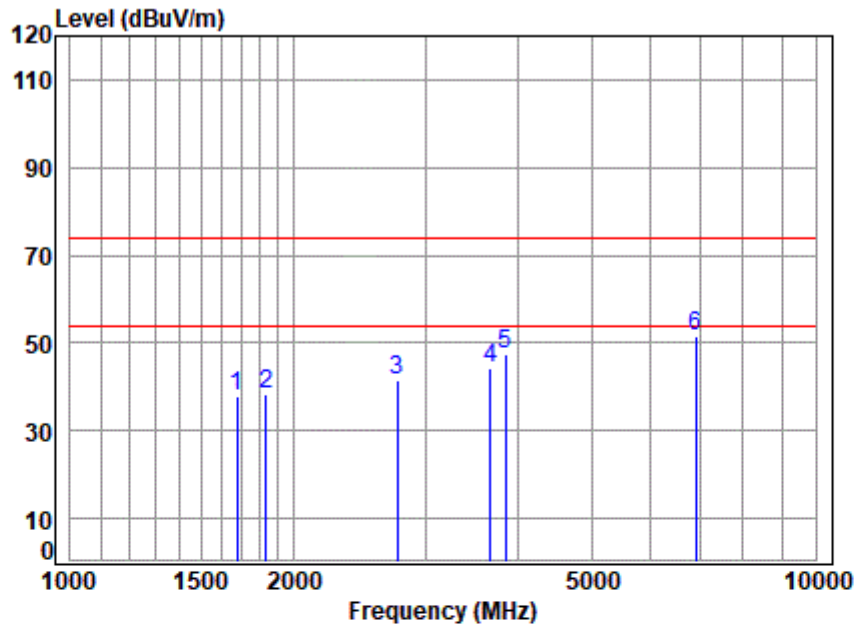
Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.





Test Mode: 04; Polarity: Horizontal



Site : chamber

Condition: 3m HORIZONTAL

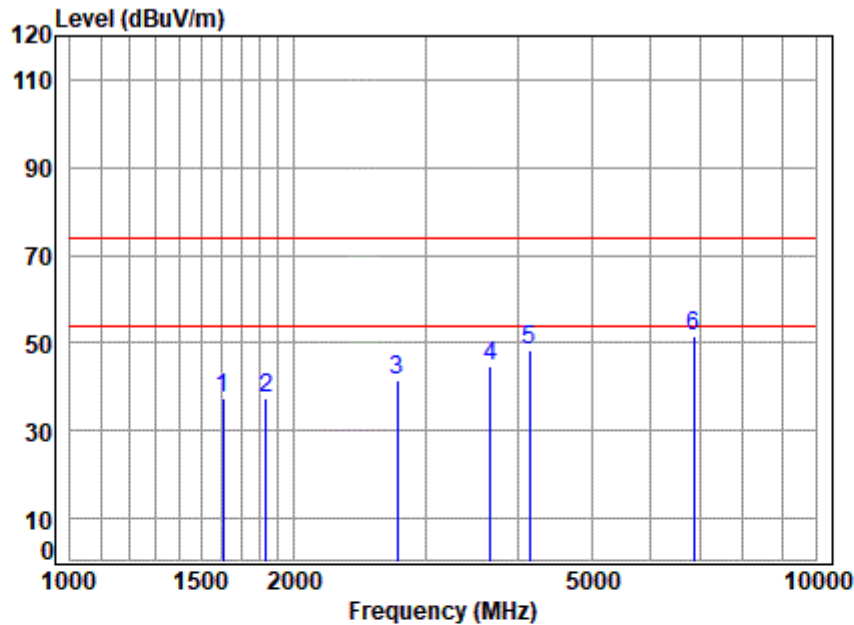
Job No : 21147AT

Mode : 916 TX SE

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1674.943	3.41	26.58	40.05	48.09	38.03	74.00	-35.97	peak
2	1832.000	3.53	27.30	40.12	47.63	38.34	74.00	-35.66	peak
3	2748.000	4.70	29.77	40.59	47.60	41.48	74.00	-32.52	peak
4	3664.000	5.78	32.01	41.19	47.47	44.07	74.00	-29.93	peak
5	3837.073	6.04	32.32	41.30	50.51	47.57	74.00	-26.43	peak
6	6902.398	8.49	35.33	41.76	49.54	51.60	74.00	-22.40	peak



Test Mode: 04; Polarity: Vertical

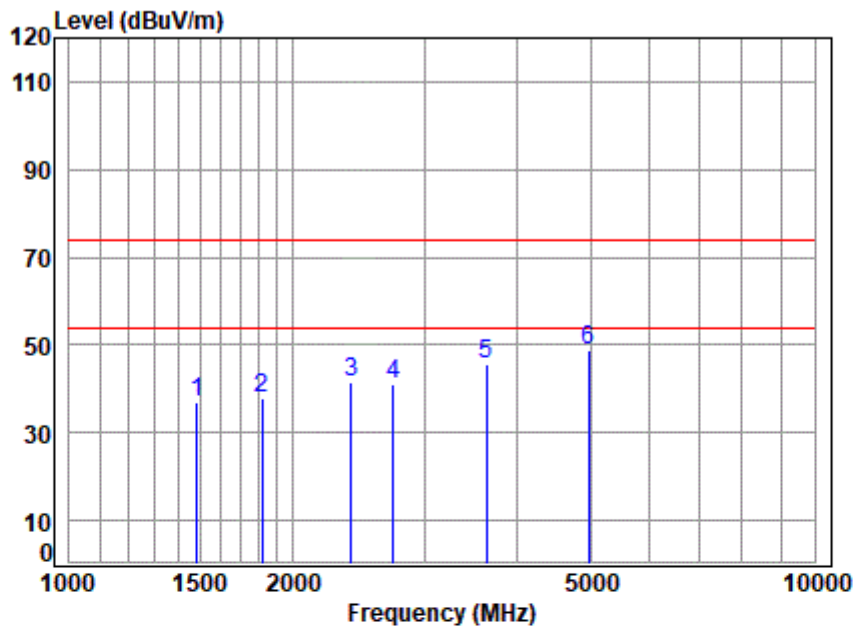


Site : chamber  
Condition: 3m VERTICAL  
Job No : 21147AT  
Mode : 916 TX SE

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1603.245	3.35	26.23	40.01	48.05	37.62	74.00	-36.38	peak
2	1832.000	3.53	27.30	40.12	46.60	37.31	74.00	-36.69	Peak
3	2748.000	4.70	29.77	40.59	47.51	41.39	74.00	-32.61	peak
4	3664.000	5.78	32.01	41.19	47.98	44.58	74.00	-29.42	peak
5	4130.475	6.41	32.71	41.53	50.80	48.39	74.00	-25.61	peak
6	6870.685	8.47	35.27	41.78	49.43	51.39	74.00	-22.61	peak



Test Mode: 09; Polarity: Horizontal

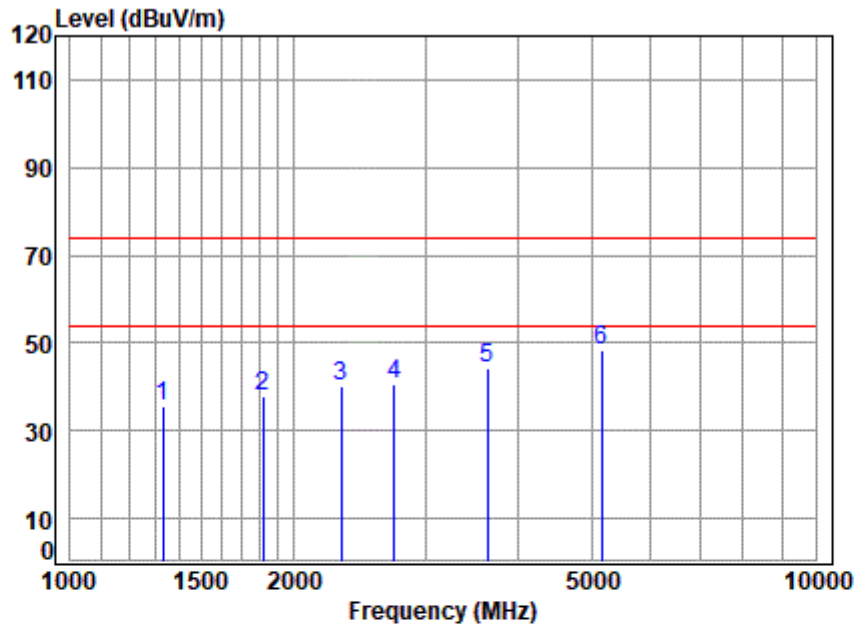


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 21147AT  
Mode : 908.4 TX SE

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1485.936	3.24	25.67	39.94	48.08	37.05	74.00	-36.95	Peak
2	1816.800	3.52	27.23	40.12	47.44	38.07	74.00	-35.93	peak
3	2393.316	4.35	28.89	40.42	48.52	41.34	74.00	-32.66	Peak
4	2725.200	4.68	29.71	40.58	47.28	41.09	74.00	-32.91	peak
5	3633.600	5.73	31.95	41.17	48.99	45.50	74.00	-28.50	peak
6	4977.371	7.28	33.96	42.28	50.08	49.04	74.00	-24.96	Peak



Test Mode: 09; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No : 21147AT  
Mode : 908.4 TX SE

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1333.521	3.00	25.38	39.85	47.17	35.70	74.00	-38.30	Peak
2	1816.800	3.52	27.23	40.12	47.42	38.05	74.00	-35.95	peak
3	2312.065	4.22	28.71	40.38	47.80	40.35	74.00	-33.65	Peak
4	2725.200	4.68	29.71	40.58	46.78	40.59	74.00	-33.41	peak
5	3633.600	5.73	31.95	41.17	47.58	44.09	74.00	-29.91	peak
6	5164.164	7.60	34.07	42.32	49.00	48.35	74.00	-25.65	Peak





## 8 Emission Test Results

### 8.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement: 47 CFR Part 15, Subpart C 15.249  
47 CFR Part 15, Subpart C 15.207  
Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		
Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz		

#### 8.1.1 E.U.T. Operation

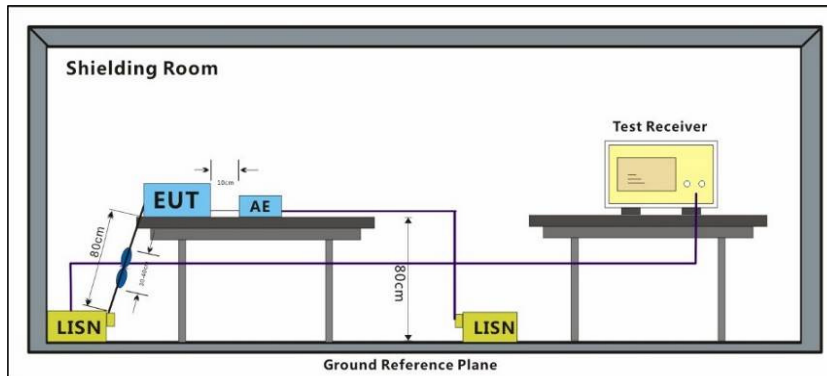
Operating Environment:  
Temperature: 22 °C Humidity: 46.6 % RH Atmospheric Pressure: 1010 mbar

#### 8.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with GFSK modulation.
Final test	09	Charge + TX mode_Keep the EUT in charging and continuously transmitting mode with FSK modulation.



### 8.1.3 Test Setup Diagram



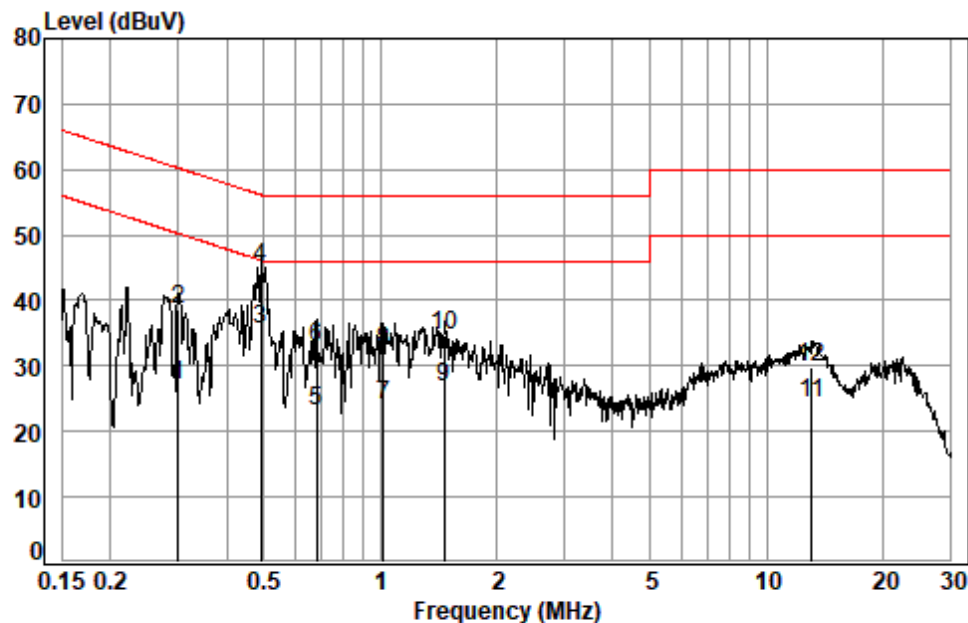
### 8.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



Test Mode: 04; Line: Live line

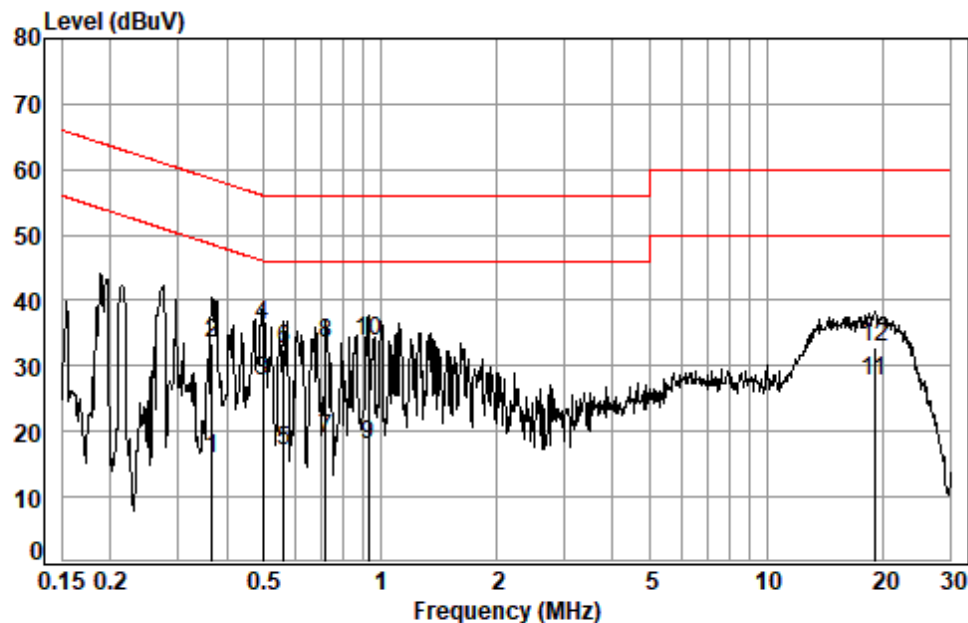


Site : Shielding Room  
Condition: Line  
Job No. : 21147AT  
Test mode: 04

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.3003	0.05	9.74	17.33	27.12	50.24	-23.12	Average
2	0.3003	0.05	9.74	28.87	38.66	60.24	-21.58	QP
3	0.4915	0.07	9.77	25.83	35.67	46.14	-10.47	Average
4	0.4915	0.07	9.77	35.03	44.87	56.14	-11.27	QP
5	0.6826	0.09	9.77	13.26	23.12	46.00	-22.88	Average
6	0.6826	0.09	9.77	22.91	32.77	56.00	-23.23	QP
7	1.0211	0.10	9.78	14.21	24.09	46.00	-21.91	Average
8	1.0211	0.10	9.78	22.47	32.35	56.00	-23.65	QP
9	1.4640	0.11	9.80	16.99	26.90	46.00	-19.10	Average
10	1.4640	0.11	9.80	24.84	34.75	56.00	-21.25	QP
11	13.0575	0.16	10.41	13.75	24.32	50.00	-25.68	Average
12	13.0575	0.16	10.41	19.37	29.94	60.00	-30.06	QP



Test Mode: 04; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 21147AT  
Test mode: 04

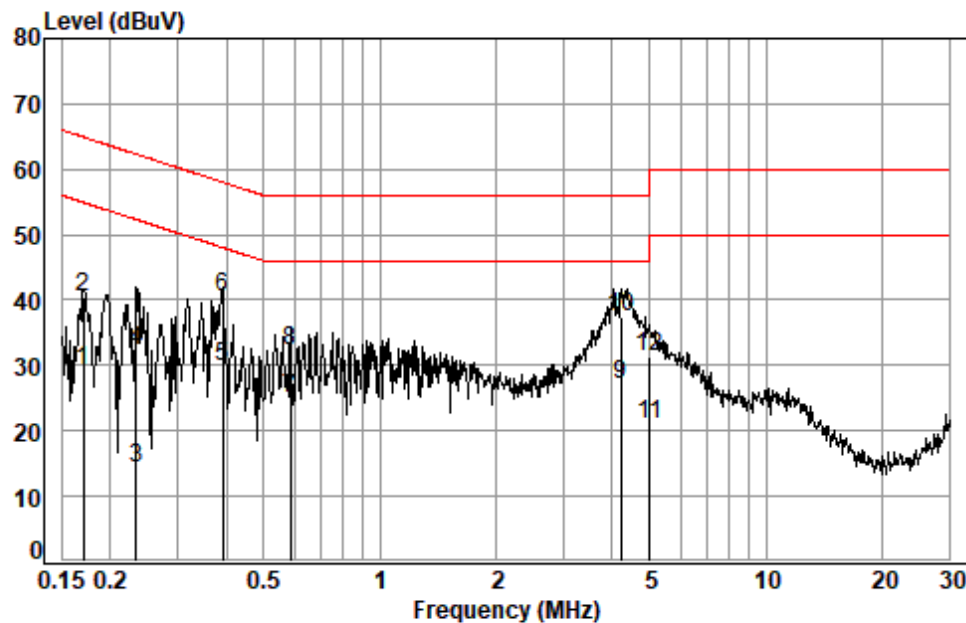
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.3673	0.06	9.75	5.93	15.74	48.56	-32.82	Average
2	0.3673	0.06	9.75	23.63	33.44	58.56	-25.12	QP
3	0.4967	0.07	9.76	17.76	27.59	46.05	-18.46	Average
4	0.4967	0.07	9.76	26.28	36.11	56.05	-19.94	QP
5	0.5641	0.08	9.77	7.23	17.08	46.00	-28.92	Average
6	0.5641	0.08	9.77	22.55	32.40	56.00	-23.60	QP
7	0.7236	0.09	9.77	9.01	18.87	46.00	-27.13	Average
8	0.7236	0.09	9.77	23.45	33.31	56.00	-22.69	QP
9	0.9331	0.10	9.78	8.04	17.92	46.00	-28.08	Average
10	0.9331	0.10	9.78	23.81	33.69	56.00	-22.31	QP
11	19.0210	0.17	10.79	16.76	27.72	50.00	-22.28	Average
12	19.0210	0.17	10.79	21.74	32.70	60.00	-27.30	QP



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Test Mode: 09; Line: Live line

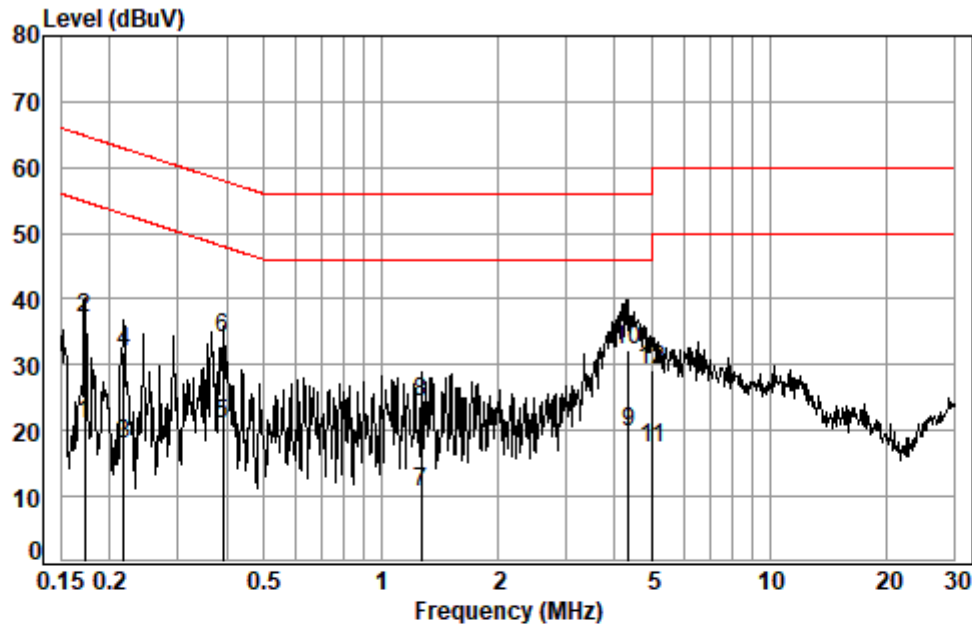


Site : Shielding Room  
Condition: Line  
Job No. : 21147AT  
Test mode: 09

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1703	0.03	9.71	19.48	29.22	54.94	-25.72	Average
2	0.1703	0.03	9.71	30.61	40.35	64.94	-24.59	QP
3	0.2341	0.04	9.73	4.54	14.31	52.30	-37.99	Average
4	0.2341	0.04	9.73	22.36	32.13	62.30	-30.17	QP
5	0.3914	0.06	9.76	19.89	29.71	48.03	-18.32	Average
6	0.3914	0.06	9.76	30.75	40.57	58.03	-17.46	QP
7	0.5854	0.08	9.77	15.18	25.03	46.00	-20.97	Average
8	0.5854	0.08	9.77	22.31	32.16	56.00	-23.84	QP
9	4.2242	0.15	9.89	17.04	27.08	46.00	-18.92	Average
10	4.2242	0.15	9.89	27.26	37.30	56.00	-18.70	QP
11	5.0046	0.16	9.93	10.91	21.00	50.00	-29.00	Average
12	5.0046	0.16	9.93	21.26	31.35	60.00	-28.65	QP



Test Mode: 09; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 21147AT  
Test mode: 09

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1722	0.03	9.71	11.33	21.07	54.86	-33.79	Average
2	0.1722	0.03	9.71	27.44	37.18	64.86	-27.68	QP
3	0.2174	0.04	9.72	8.14	17.90	52.92	-35.02	Average
4	0.2174	0.04	9.72	22.25	32.01	62.92	-30.91	QP
5	0.3914	0.06	9.75	11.17	20.98	48.03	-27.05	Average
6	0.3914	0.06	9.75	24.15	33.96	58.03	-24.07	QP
7	1.2688	0.11	9.79	0.82	10.72	46.00	-35.28	Average
8	1.2688	0.11	9.79	14.36	24.26	56.00	-31.74	QP
9	4.3376	0.15	9.90	9.76	19.81	46.00	-26.19	Average
10	4.3376	0.15	9.90	22.25	32.30	56.00	-23.70	QP
11	5.0046	0.16	9.93	7.32	17.41	50.00	-32.59	Average
12	5.0046	0.16	9.93	19.15	29.24	60.00	-30.76	QP



## 9 Test Setup Photo

Refer to Setup Photos

## 10 EUT Constructional Details (EUT Photos)

Refer to EUT external and internal photos for SZCR2105021147AT

- End of the Report -

