

# TEST REPORT

**Application No.:** SZCR2304001114ET (SGS SZ NO.: T52310270073EM)  
**Applicant:** Atomic Monkey Products Ltd.  
**Address of Applicant:** ROOM 222, 1/F, FONDA INDUSTRIAL BUILDING, 37-39 AU PUI WAN STREET, FO TAN, N.T. HONG KONG

### Equipment Under Test (EUT):

**EUT Name:** TRACKER TAG  
**Item No.:** 10534  
**Requested Age Grading:** 6+  
**FCC ID:** 2AB4XAMP10534T  
**Standard(s) :** 47 CFR Part 15, Subpart C 15.249  
**Date of Receipt:** 2023-04-18  
**Date of Test:** 2023-04-23 to 2023-06-06  
**Date of Issue:** 2023-06-09

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

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



Keny Xu  
EMC Laboratory Manager



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

SZEMC-TRF-01 Rev. A/0 Aug01,2022

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-06-09		Original

Authorized for issue by:			
		Martin Tang	
		_____	
		Martin Tang/Project Engineer	
		Eric Fu	
		_____	
		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
Restricted Band Around Fundamental Frequency		ANSI C63.10 (2013) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	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

**Remark:**

Item No.: 10534

The product have different color samples

Only the sample in section 8 was tested, since according to the declaration from the applicant, the electrical circuitry design, PCB layout, components used and internal wiring and functions were identical for the above item, with only difference on color.



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## 4 General Information

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

Power supply:	3V DC(3V x 1 "CR2032" Button Cell) for tracker tag
Operation Frequency:	2410MHz-2475MHz
Modulation Type:	GFSK
Number of Channels:	66
Channel Spacing:	1MHz
Antenna Type:	Integral Antenna
Antenna Gain:	0 dBi

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

#### Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2410	23	2432	45	2454
2	2411	24	2433	46	2455
3	2412	25	2434	47	2456
4	2413	26	2435	48	2457
5	2414	27	2436	49	2458
6	2415	28	2437	50	2459
7	2416	29	2438	51	2460
8	2417	30	2439	52	2461
9	2418	31	2440	53	2462
10	2419	32	2441	54	2463
11	2420	33	2442	55	2464
12	2421	34	2443	56	2465
13	2422	35	2444	57	2466
14	2423	36	2445	58	2467
15	2424	37	2446	59	2468
16	2425	38	2447	60	2469
17	2426	39	2448	61	2470
18	2427	40	2449	62	2471
19	2428	41	2450	63	2472
20	2429	42	2451	64	2473
21	2430	43	2452	65	2474
22	2431	44	2453	66	2475



**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
20dB Bandwidth	± 3%
Field Strength of the Fundamental Signal (15.249(a))	± 4.5dB (Below 1GHz); ± 4.8dB (Above 1GHz)
Restricted Band Around Fundamental Frequency	± 6.0dB (Below 1GHz); ± 4.6dB (Above 1GHz)
Radiated Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions Above 1GHz	± 4.6dB (1GHz-18GHz); ± 4.8dB (18MHz-40GHz)

**Remark:**

The  $U_{lab}$  (lab Uncertainty) is less than  $U_{CISPR/ETSI}$  (CISPR/ETSI 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, Nanshan District, 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

#### • 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





## 5 Equipment List

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2022-10-20	2023-10-19
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2022-07-08	2023-07-07
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2023-03-21	2024-03-20

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	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07

Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19



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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	2022-10-20	2023-10-19
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2021-09-17	2023-09-16
Loop Antenna (9kHz-30MHz)	ETS-Lindgren	6502	SEM003-08	2021-11-30	2023-11-29
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2022-03-22 2023-03-20	2023-03-21 2024-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2022-07-08	2023-07-07

Radiated Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2022-04-02	2025-04-01
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2022-07-24	2024-07-23
Microwave system amplifier	Agilent	83017A	SEM005-25	2022-09-21	2023-09-20
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2022-07-08	2023-07-07

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2022-09-04	2023-09-03
Humidity/ Temperature Indicator	Anymetre	TH101B	SEM002-09	2022-09-04	2023-09-03
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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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

#### 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 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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.

Antenna location: Refer to Internal photos(Tracker tag)



## 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

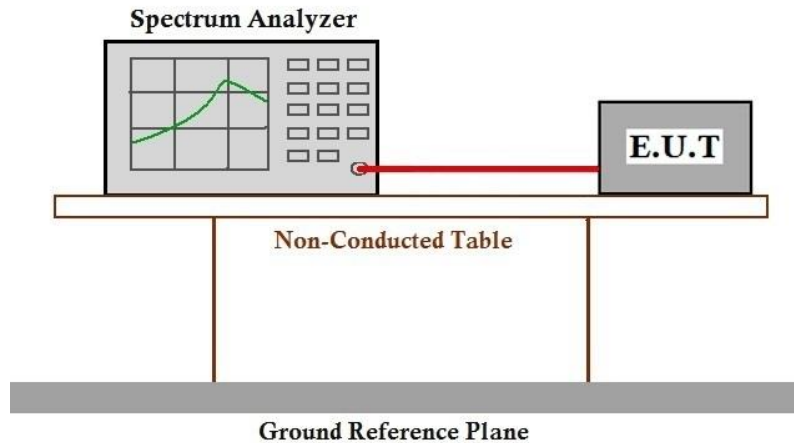
#### 7.1.1 E.U.T. Operation

Operating Environment:  
 Temperature: 27.4 °C Humidity: 45.0 % RH Atmospheric Pressure: 1015 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT(tracker tag) in transmitting with modulation mode.

#### 7.1.3 Test Setup Diagram



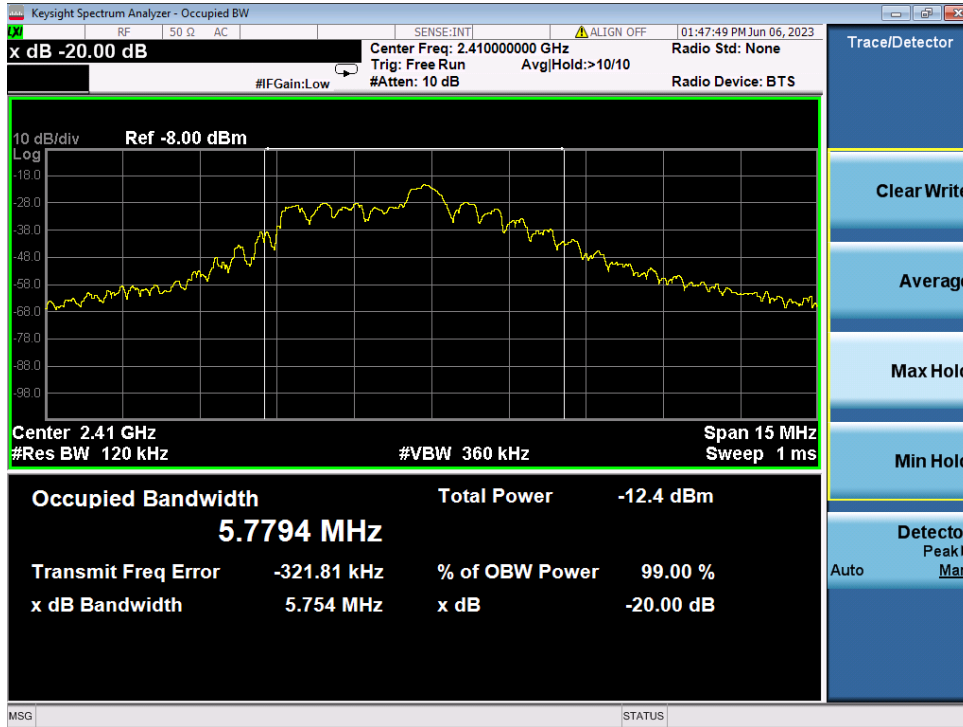
#### 7.1.4 Measurement Procedure and Data

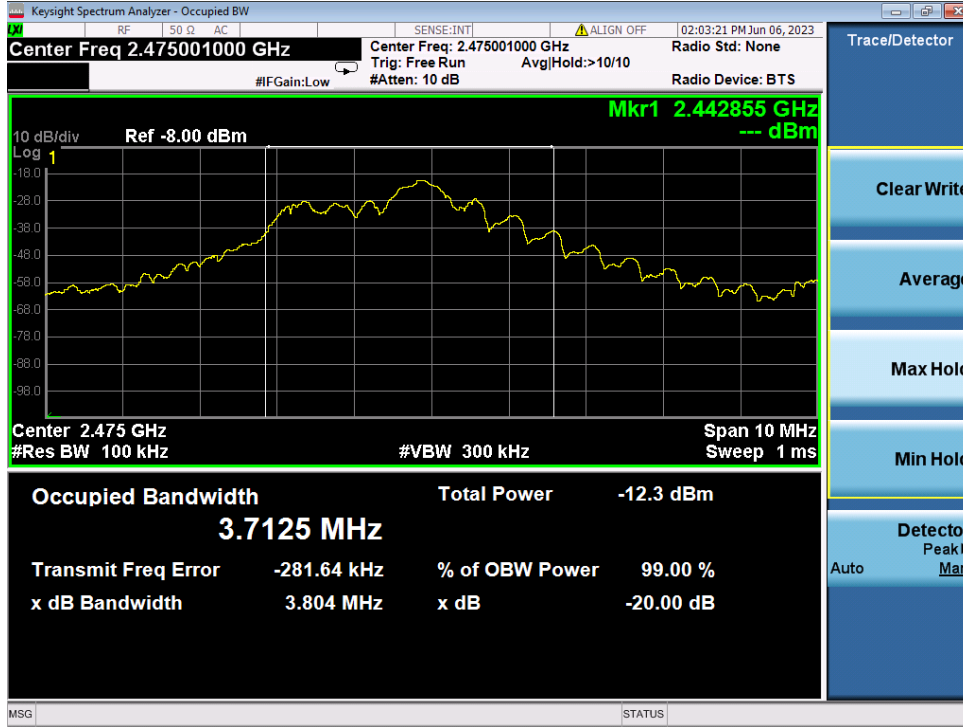
Test channel	20dB bandwidth (MHz)	Results
Lowest	5.754	Pass
Middle	4.048	Pass
Highest	3.804	Pass



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**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: 23.2 °C Humidity: 52.3 % RH Atmospheric Pressure: 1015 mbar

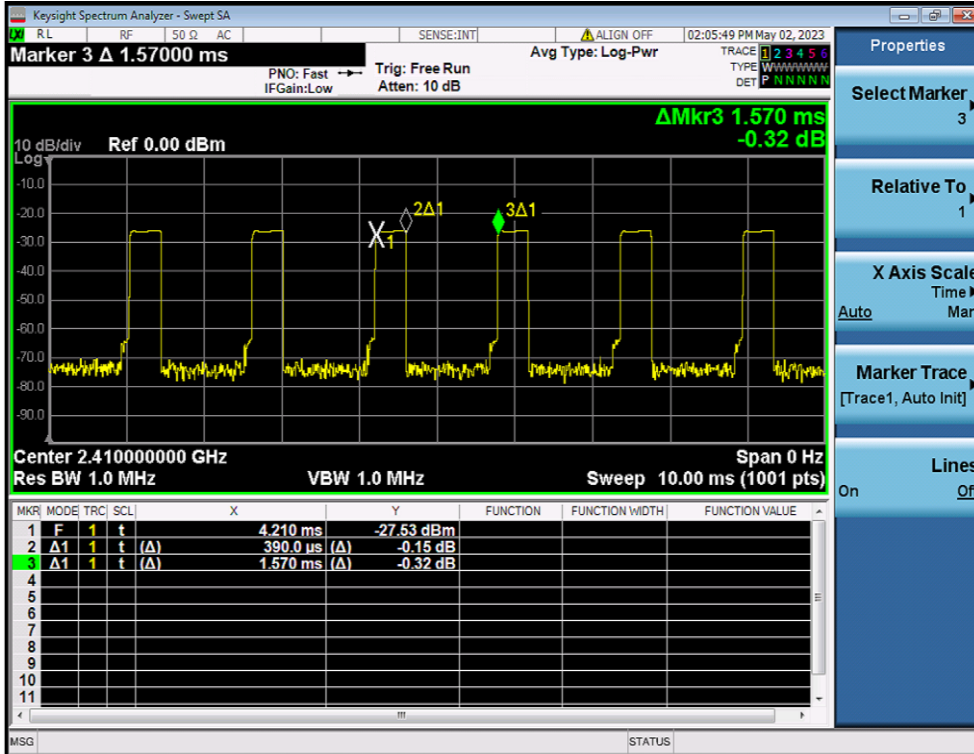
**7.2.1 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT(tracker tag) in transmitting with modulation mode.

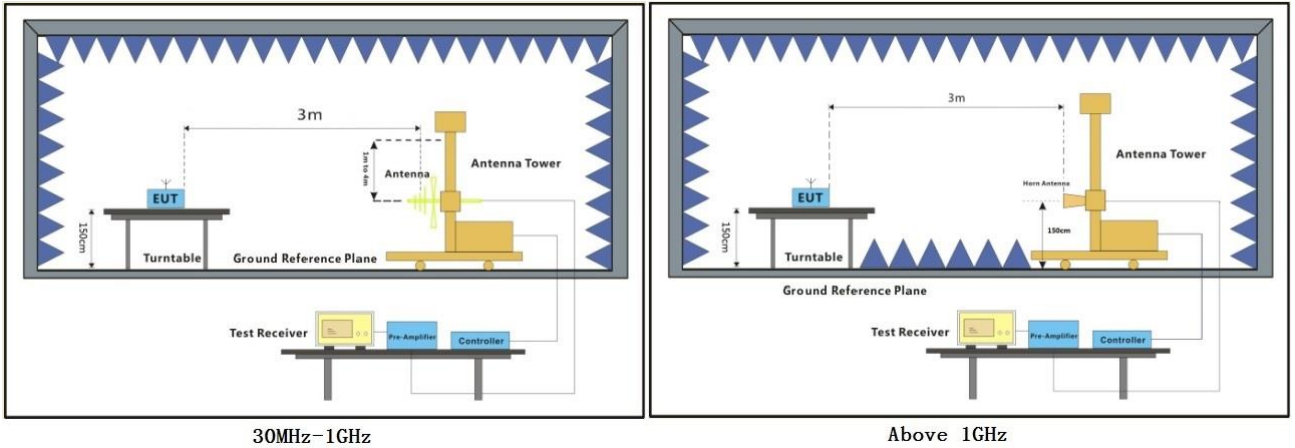
**Average value:**

Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	Ton time =0.39ms
	T period =1.57ms
	Duty cycle=24.84%
	PDCF value= -12.10dB





### 7.2.2 Test Setup Diagram



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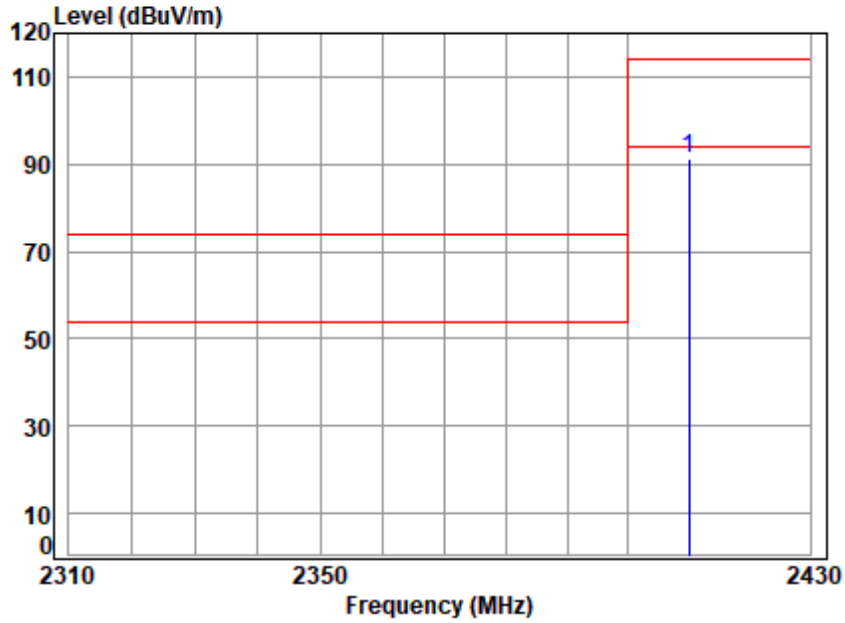


### 7.2.3 Measurement Procedure and Data

- 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



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low

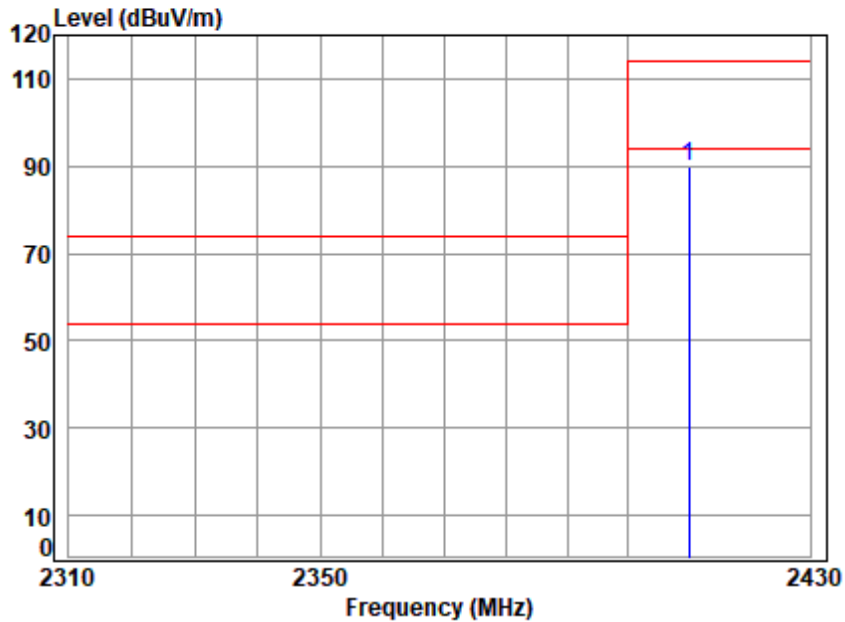


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01114ET/01115ET  
 Mode : 2410 Field Strength

	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 2410.000	4.27	28.86	39.23	97.57	91.47	114.00	-22.53 peak



Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low

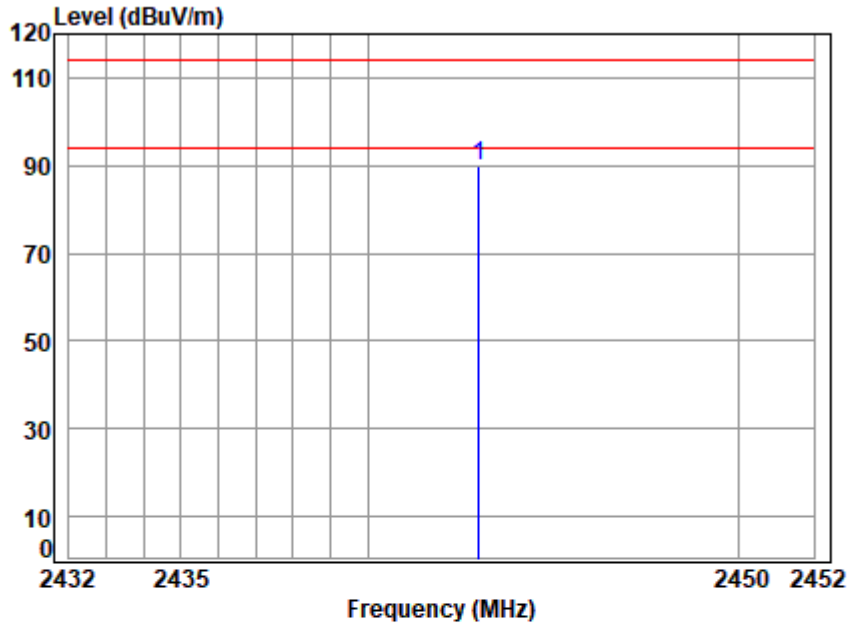


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01114ET/01115ET  
 Mode : 2410 Field Strength

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2410.000	4.27	28.86	39.23	95.92	89.82	114.00	-24.18 peak



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle

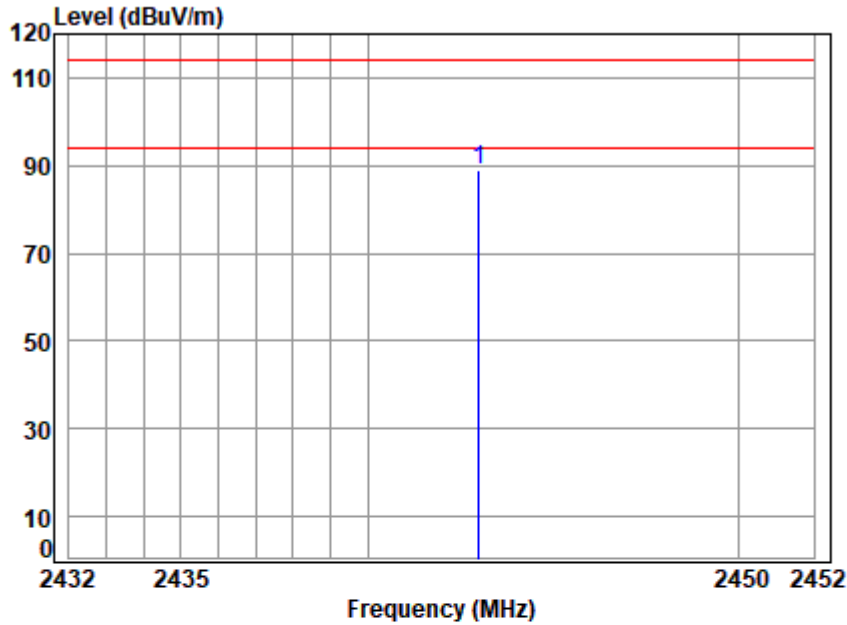


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01114ET/01115ET  
 Mode : 2443 Field Strength

	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 2443.00	4.30	29.06	39.25	95.89	90.00	114.00	-24.00 Peak



Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle

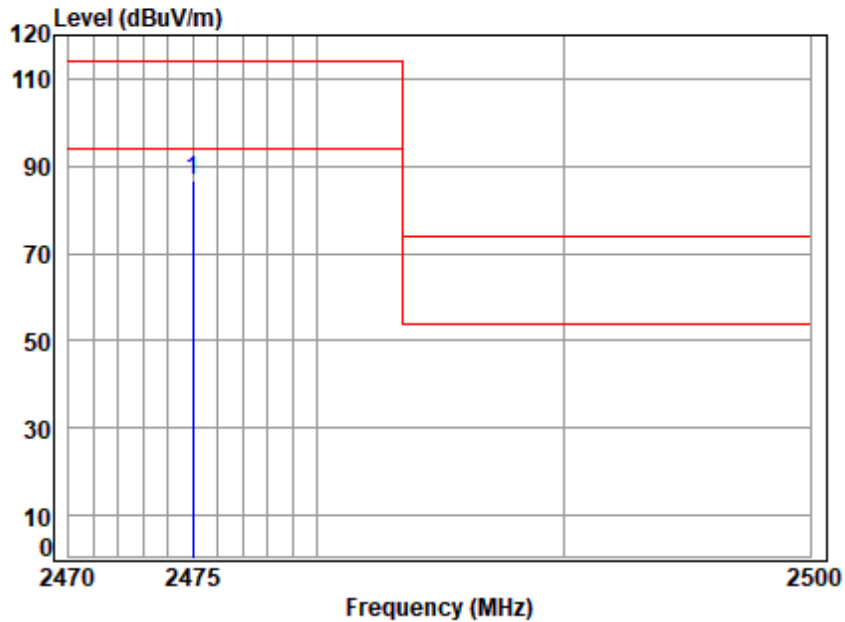


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01114ET/01115ET  
 Mode : 2443 Field Strength

	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	2443.00	4.30	29.06	39.25	94.80	88.91	114.00	-25.09 Peak



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High

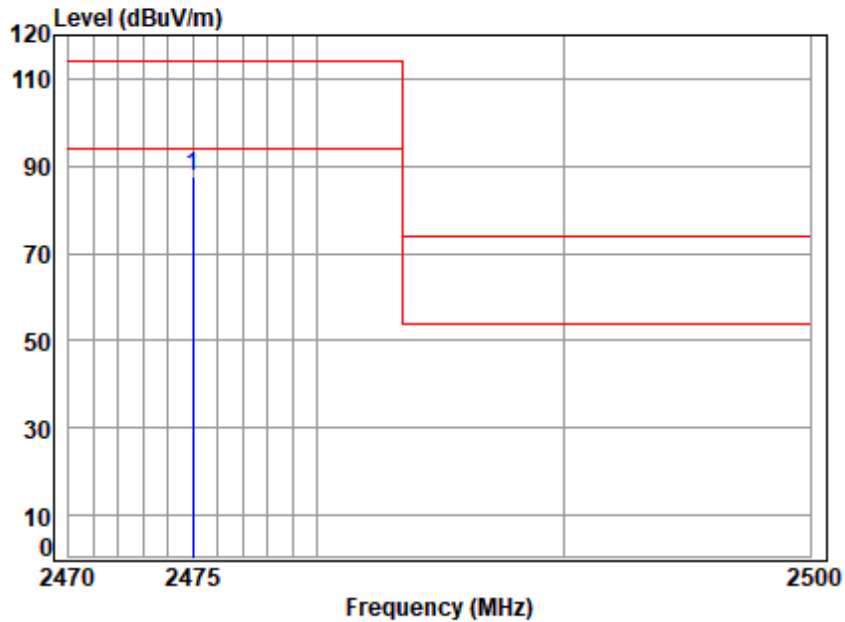


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01114ET/01115ET  
 Mode : 2475 Field Strength

	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 2475.000	4.34	29.25	39.26	92.40	86.73	114.00	-27.27 peak



Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01114ET/01115ET  
 Mode : 2475 Field Strength

	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 2475.000	4.34	29.25	39.26	93.06	87.39	114.00	-26.61 peak

Remark:

- The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:  
 Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 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. So, only the above measurement data were shown in the report



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

**7.3 Restricted Band Around Fundamental Frequency**

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.10.5

Measurement Distance: 3m

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

Emission radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation.

**7.3.1 E.U.T. Operation**

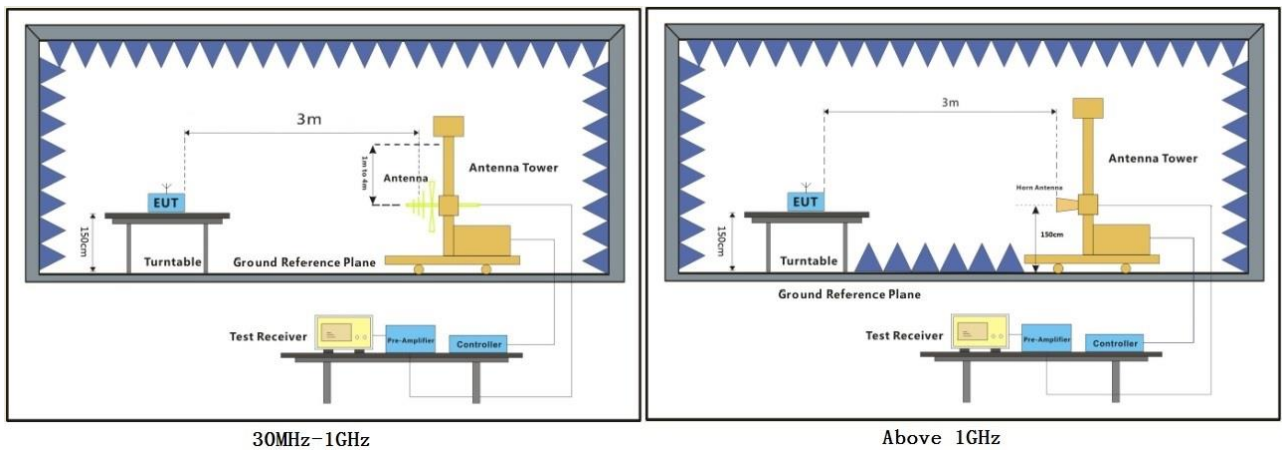
Operating Environment:

Temperature: 23.2 °C Humidity: 52.3 % RH Atmospheric Pressure: 1015 mbar

**7.3.2 Test Mode Description**

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT(tracker tag) in transmitting with modulation mode.

**7.3.3 Test Setup Diagram**



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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com



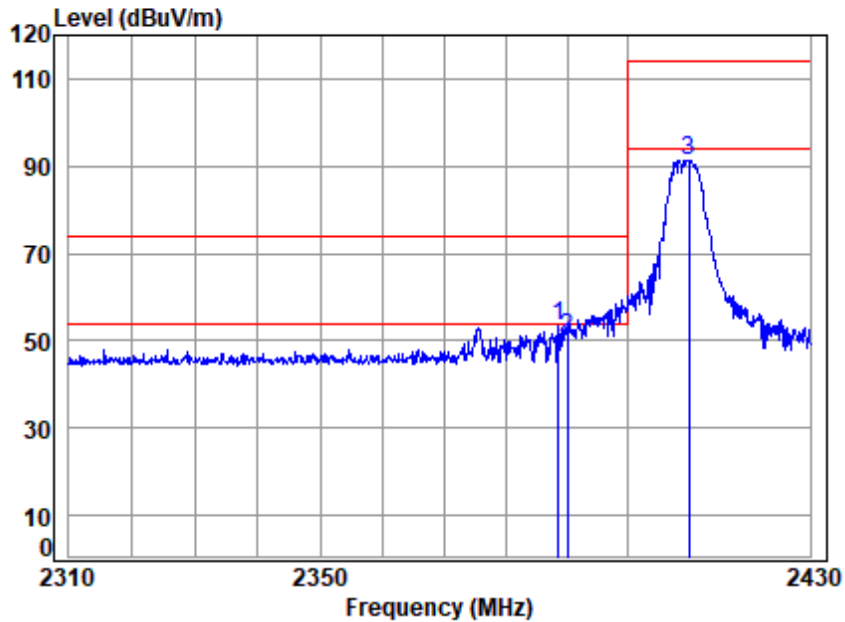
### 7.3.4 Measurement Procedure and Data

- 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



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low

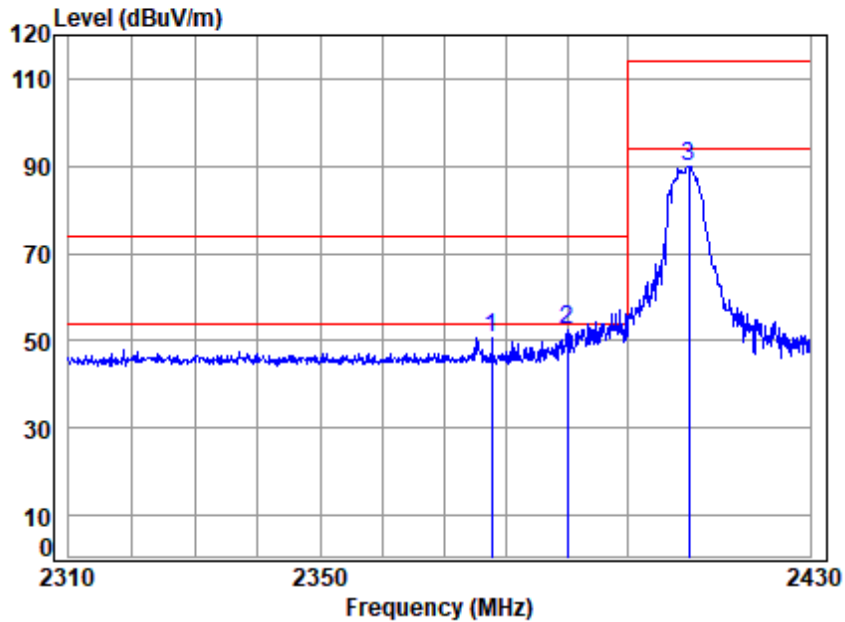


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01114ET/01115ET  
 Mode : 2410 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.516	4.25	28.75	39.22	59.59	53.37	74.00	-20.63 peak
2	2390.000	4.25	28.76	39.22	56.79	50.58	74.00	-23.42 peak
3	2410.000	4.27	28.86	39.23	97.57	91.47	114.00	-22.53 peak



Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low

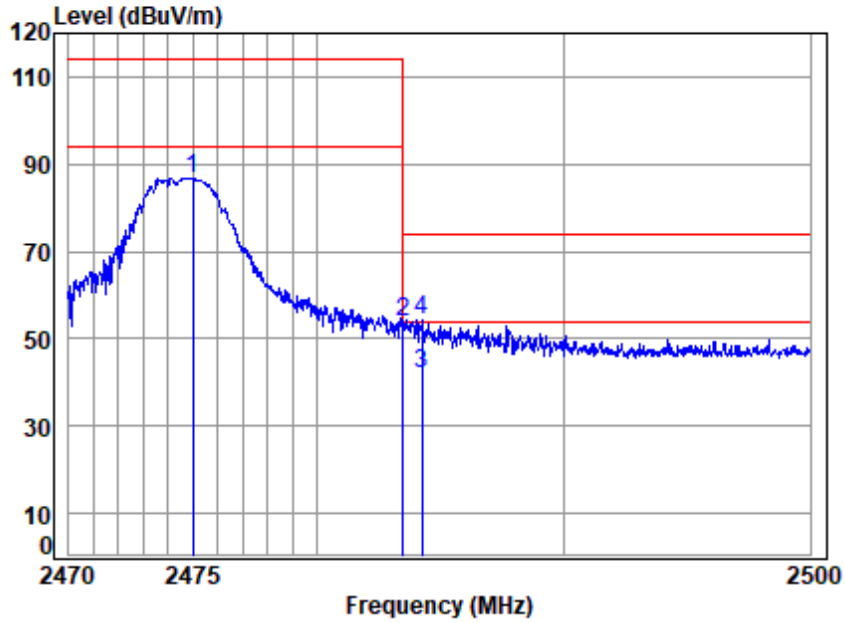


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01114ET/01115ET  
 Mode : 2410 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1	2377.775	4.24	28.71	39.21	57.07	74.00	-23.19	Peak
2	2390.000	4.25	28.76	39.22	58.47	74.00	-21.74	peak
3	2410.000	4.27	28.86	39.23	95.92	114.00	-24.18	peak



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High

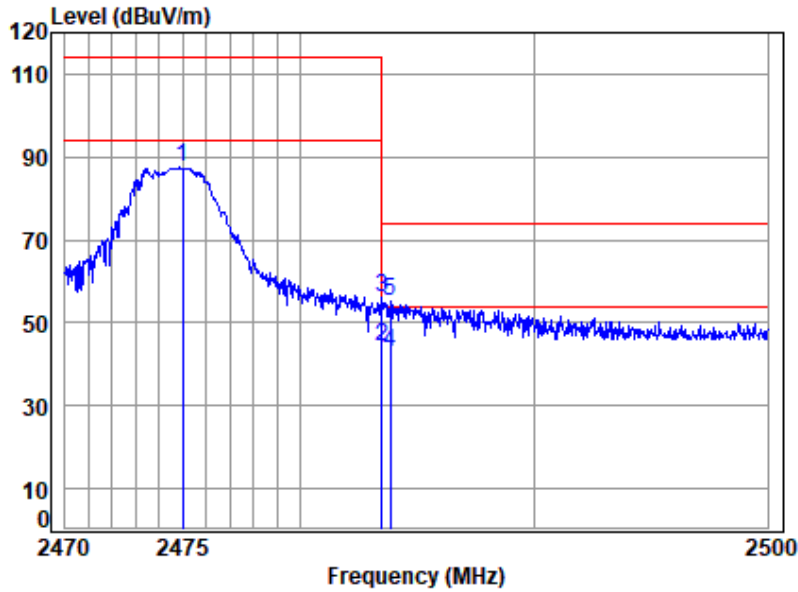


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01114ET/01115ET  
 Mode : 2475 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2475.000	4.34	29.25	39.26	92.40	86.73	114.00	-27.27 peak
2	2483.500	4.34	29.30	39.27	59.49	53.86	74.00	-20.14 peak
3	2484.235	4.34	29.31	39.27	47.63	42.01	54.00	-11.99 Average
4	2484.235	4.34	29.31	39.27	59.73	54.11	74.00	-19.89 peak



Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01114ET/01115ET  
 Mode : 2475 Band edge

	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	2475.000	4.34	29.25	39.26	93.06	87.39	114.00	-26.61 peak
2	2483.500	4.34	29.30	39.27	49.81	44.18	54.00	-9.82 Average
3	2483.500	4.34	29.30	39.27	61.91	56.28	74.00	-17.72 peak
4	2483.845	4.34	29.30	39.27	48.56	42.93	54.00	-11.07 Average
5	2483.845	4.34	29.30	39.27	60.66	55.03	74.00	-18.97 Peak

Remark:

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

2) 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. So, only the above measurement data were shown in the report



### 7.4 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

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

Operating Environment:

Temperature: 23.2 °C

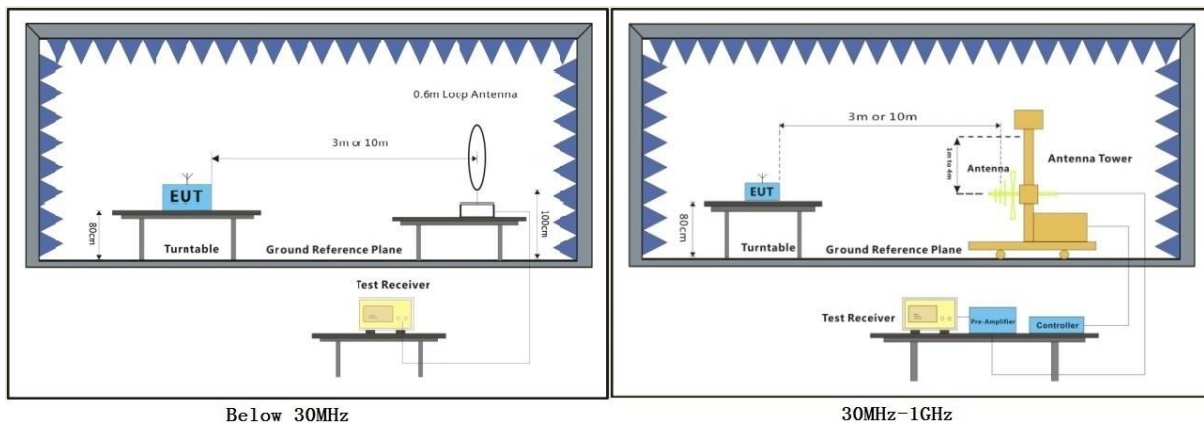
Humidity: 52.6 % RH

Atmospheric Pressure: 1015 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT(tracker tag) in transmitting with modulation mode.

#### 7.4.3 Test Setup Diagram



### 7.4.4 Measurement Procedure and Data

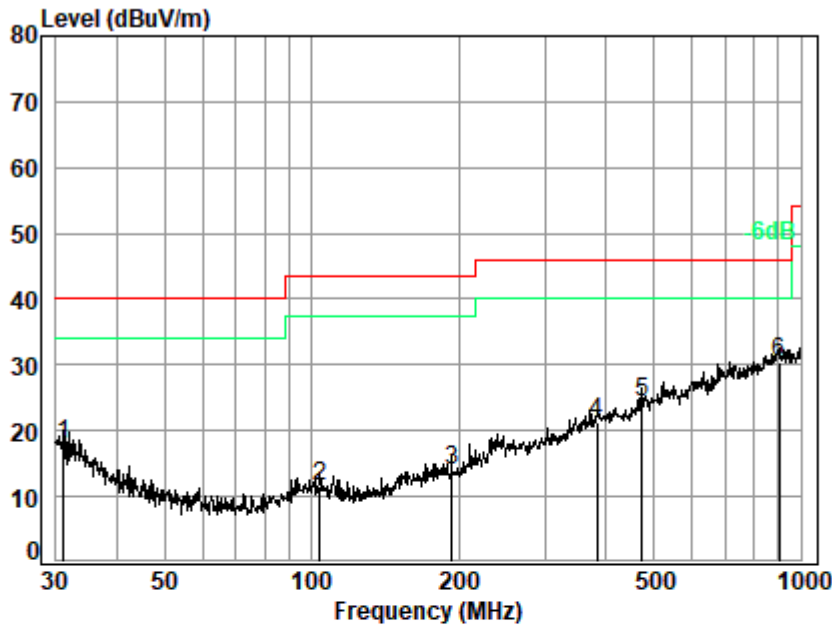
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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 quasi-peak 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 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.
3. 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: 00; Polarity: Horizontal



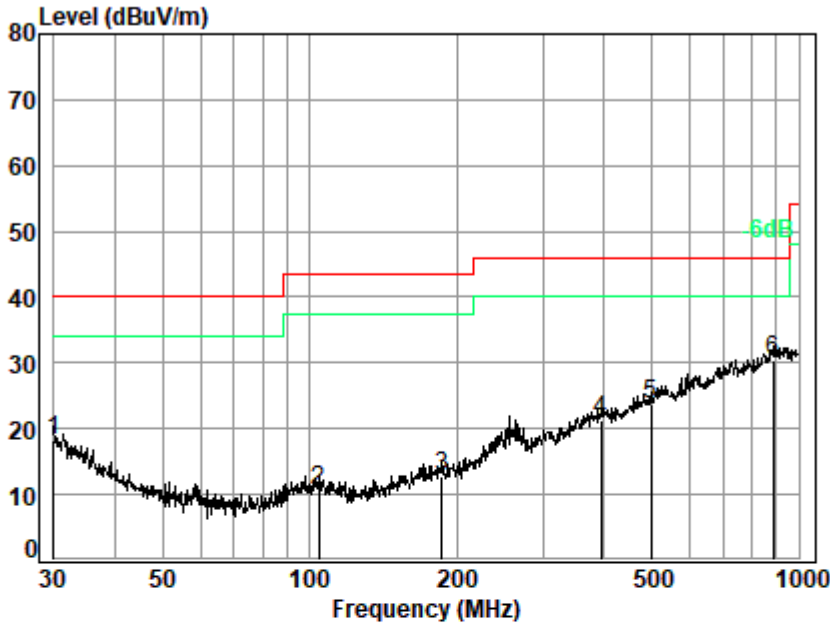
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No. : 01114ET  
 Test Mode: 00

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	31.07	20.79	0.63	27.23	23.81	18.00	-22.00 QP
2	103.81	12.97	1.16	26.98	24.35	11.50	-32.00 QP
3	193.09	14.60	1.65	26.63	24.45	14.07	-29.43 QP
4	383.93	21.29	2.42	26.45	23.95	21.21	-24.79 QP
5	473.83	23.01	2.72	26.72	25.45	24.46	-21.54 QP
6 q	903.31	28.61	4.04	25.89	23.71	30.47	-15.53 QP





Test Mode: 00; Polarity: Vertical



Site : chamber  
 Condition: 3m VERTICAL  
 Job No. : 01114ET  
 Test Mode: 00

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	21.47	0.63	27.23	23.39	40.00	-21.74 QP
2	104.17	12.96	1.16	26.98	23.56	43.50	-32.80 QP
3	186.44	14.70	1.62	26.65	23.09	43.50	-30.74 QP
4	394.85	21.62	2.46	26.48	23.56	46.00	-24.84 QP
5	499.42	23.08	2.81	26.80	24.56	46.00	-22.35 QP
6 q	884.50	28.68	3.97	25.96	23.86	46.00	-15.45 QP



### 7.5 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

#### 7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.2 °C

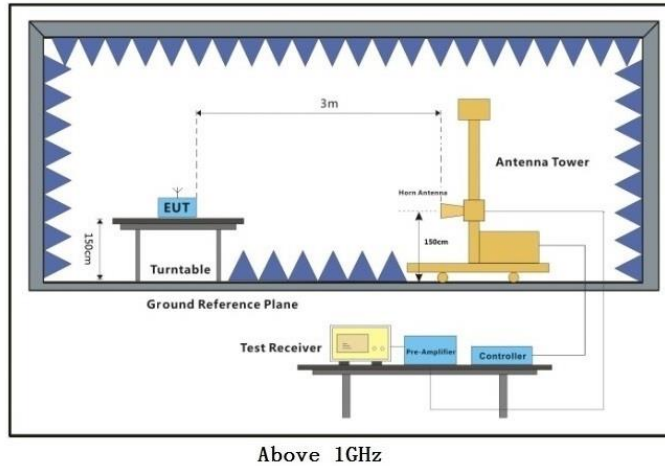
Humidity: 52.3 % RH

Atmospheric Pressure: 1015 mbar

#### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT(tracker tag) in transmitting with modulation mode.

#### 7.5.3 Test Setup Diagram



**7.5.4 Measurement Procedure and Data**

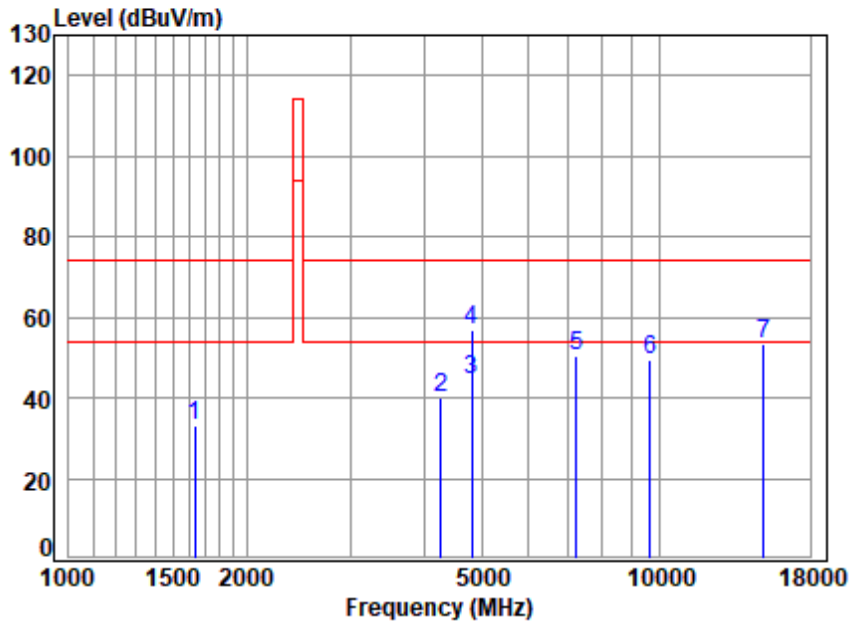
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low

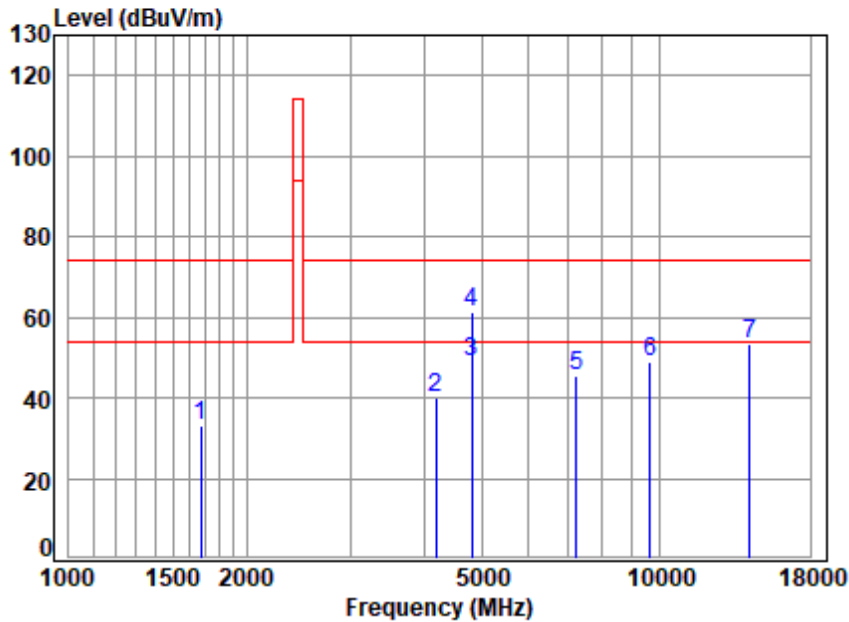


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01114ET/01115ET  
 Mode : 2410 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1634.543	3.41	26.64	38.83	41.90	33.12	74.00	-40.88	peak
2	4267.237	6.55	33.60	40.50	40.63	40.28	74.00	-33.72	peak
3	4820.000	7.06	33.88	40.88	44.63	44.69	54.00	-9.31	Average
4	4820.000	7.06	33.88	40.88	56.73	56.79	74.00	-17.21	peak
5	7230.000	8.54	35.80	40.45	46.41	50.30	74.00	-23.70	peak
6	9640.000	10.40	37.10	36.99	38.67	49.18	74.00	-24.82	peak
7	15003.420	12.94	40.30	39.22	39.28	53.30	74.00	-20.70	peak



Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low

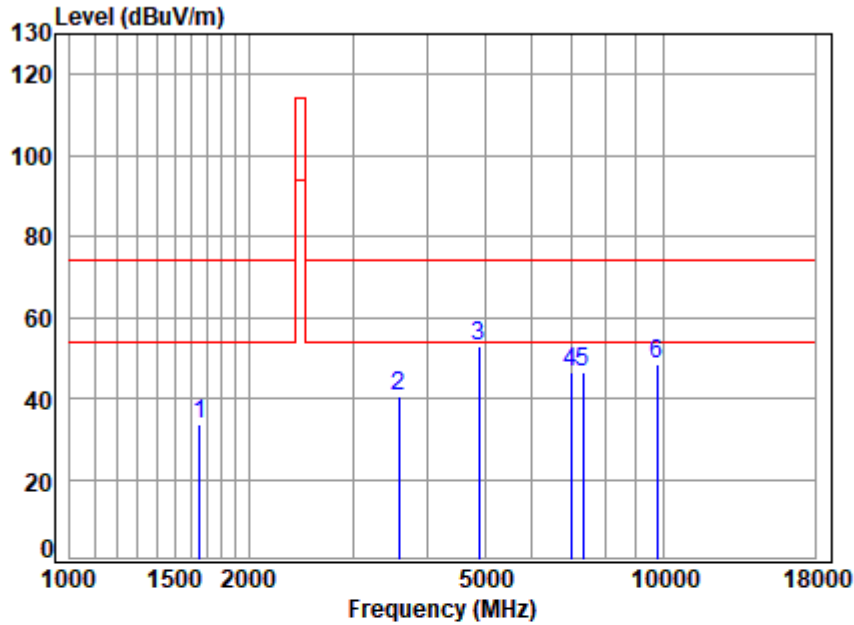


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01114ET/01115ET  
 Mode : 2410 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1672.779	3.46	26.75	38.85	41.65	33.01	74.00	-40.99	peak
2	4181.768	6.47	33.29	40.44	40.84	40.16	74.00	-33.84	peak
3	4820.000	7.06	33.88	40.88	48.96	49.02	54.00	-4.98	Average
4	4820.000	7.06	33.88	40.88	61.06	61.12	74.00	-12.88	peak
5	7230.000	8.54	35.80	40.45	41.59	45.48	74.00	-28.52	peak
6	9640.000	10.40	37.10	36.99	38.26	48.77	74.00	-25.23	peak
7	14242.800	12.92	39.59	38.83	39.49	53.17	74.00	-20.83	peak



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle

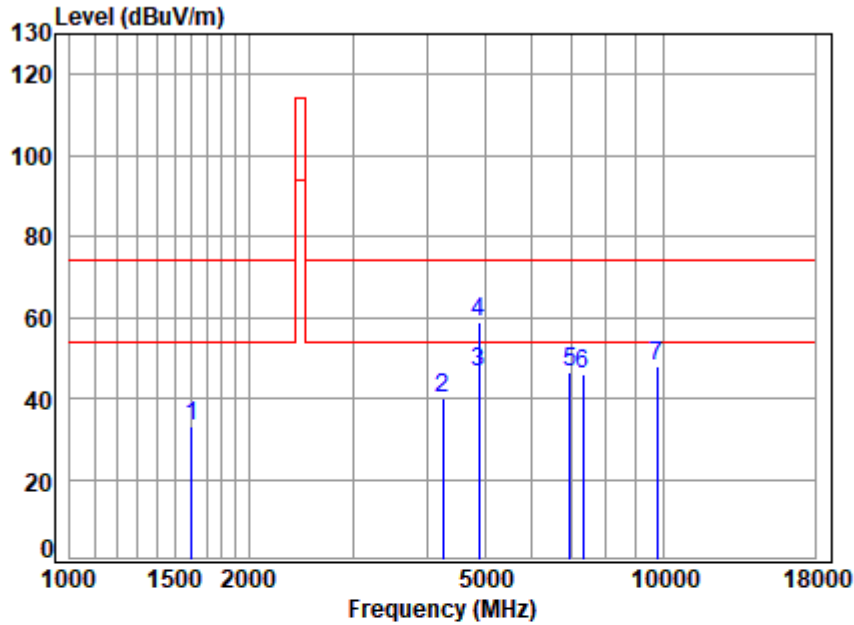


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01114ET/01115ET  
 Mode : 2443 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1653.55	3.43	26.71	38.84	42.07	33.37	74.00	-40.63	peak
2	3577.46	5.71	31.86	39.99	43.12	40.70	74.00	-33.30	peak
3	4886.00	7.11	34.07	40.93	52.79	53.04	74.00	-20.96	peak
4	6995.17	8.32	35.79	40.60	42.74	46.25	74.00	-27.75	peak
5	7329.00	8.63	35.90	40.39	42.57	46.71	74.00	-27.29	peak
6	9768.00	10.46	37.20	36.78	37.49	48.37	74.00	-25.63	peak



Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle

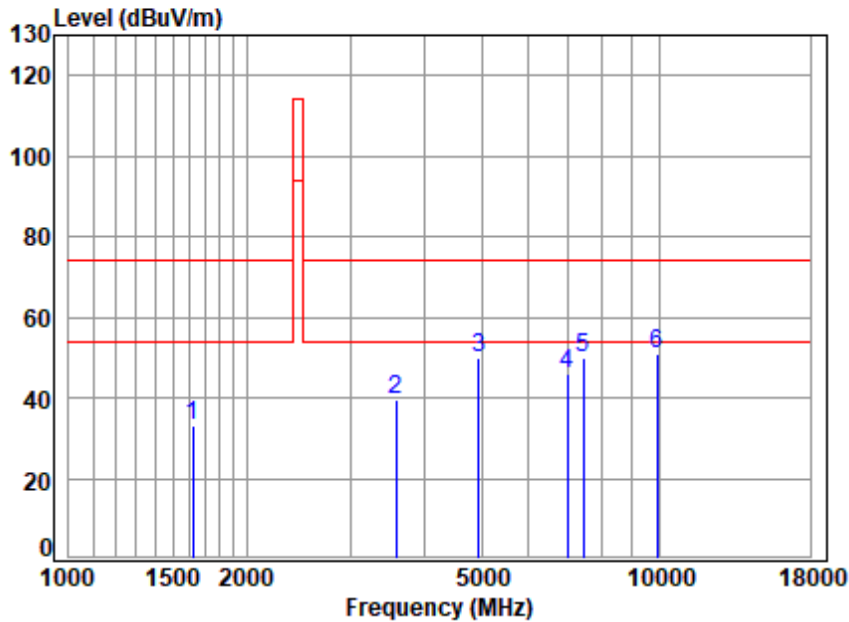


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01114ET/01115ET  
 Mode : 2443 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1601.80	3.37	26.51	38.81	42.13	33.20	74.00	-40.80	peak
2	4254.92	6.54	33.60	40.49	40.46	40.11	74.00	-33.89	peak
3	4886.00	7.11	34.07	40.93	46.46	46.71	54.00	-7.29	Average
4	4886.00	7.11	34.07	40.93	58.56	58.81	74.00	-15.19	peak
5	6954.85	8.31	35.71	40.63	42.92	46.31	74.00	-27.69	peak
6	7329.00	8.63	35.90	40.39	42.06	46.20	74.00	-27.80	peak
7	9768.00	10.46	37.20	36.78	37.31	48.19	74.00	-25.81	peak



Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



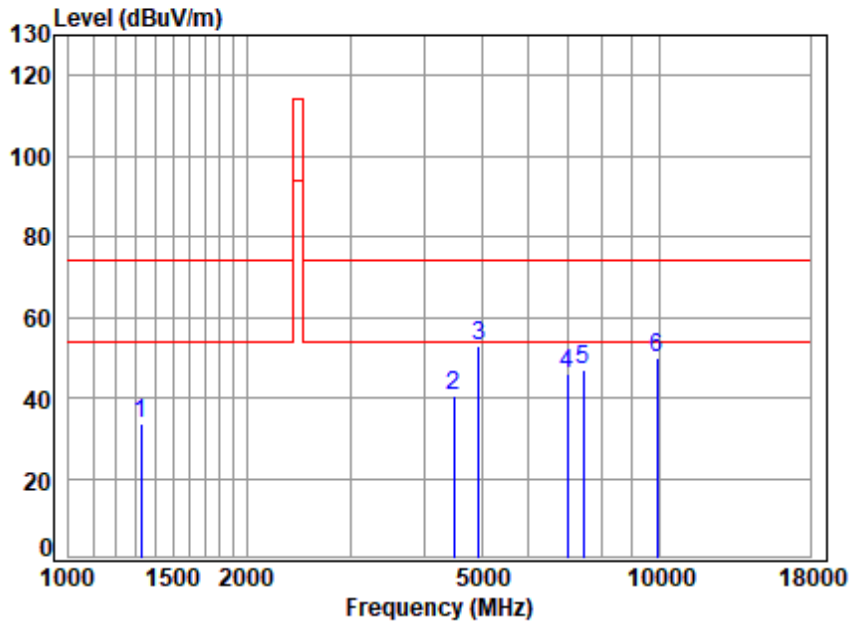
Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 01114ET/01115ET  
 Mode : 2475 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1620.431	3.39	26.58	38.82	42.18	33.33	74.00	-40.67	peak
2	3577.463	5.71	31.86	39.99	42.17	39.75	74.00	-34.25	peak
3	4950.000	7.17	34.20	40.97	49.33	49.73	74.00	-24.27	peak
4	6995.172	8.32	35.79	40.60	42.35	45.86	74.00	-28.14	peak
5	7425.000	8.72	35.90	40.34	45.47	49.75	74.00	-24.25	peak
6	9900.000	10.51	37.30	36.56	39.85	51.10	74.00	-22.90	peak





Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 01114ET/01115ET  
 Mode : 2475 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1327.446	3.00	24.81	38.65	44.23	33.39	74.00	-40.61	peak
2	4495.125	6.77	33.50	40.67	40.73	40.33	74.00	-33.67	peak
3	4950.000	7.17	34.20	40.97	52.69	53.09	74.00	-20.91	peak
4	6974.982	8.32	35.75	40.62	42.35	45.80	74.00	-28.20	peak
5	7425.000	8.72	35.90	40.34	42.60	46.88	74.00	-27.12	peak
6	9900.000	10.51	37.30	36.56	38.89	50.14	74.00	-23.86	peak



### 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2304001114ET(Tracker tag)

### 9 EUT Constructional Details (EUT Photos)

Refer to external and internal photos for SZCR2304001114ET(Tracker tag)

- End of the Report -

