TEST REPORT

Application No.:	SZCR2604001453AT
Applicant:	LOCKIN (U.S.) INC.
Address of Applicant:	8605 SANTA MONICA BLVD #79525 WEST HOLLYWOOD, CA 90069-4109 CALIFORNIA 90069-4109 United States
Manufacturer:	LOCKIN (U.S.) INC.
Address of Manufacturer:	8605 SANTA MONICA BLVD #79525 WEST HOLLYWOOD, CA 90069-4109 CALIFORNIA 90069-4109 United States
Factory:	Chongqi ng Lux iangj ia Technology Co., Ltd.
Address of Factory:	No. 50 Indus trial Avenue, Pulu Street, Tongliang District, Chongqing, P.R. China
Equipment Under Test (EUT):	
EUT Name:	Veno Solar Palm Vein Recognition Smart Lock Veno Solar Face Recognition Smart Lock
Model No.:	LKMSD650, LKMSD650A ♣
♣	Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Trade Mark:	LOCKIN
FCC ID:	2BMOG-LKMSD650
Standard(s) :	47 CFR Part 15, Subpart C 15.249
Date of Receipt:	2026-04-08
Date of Test:	2026-04-10 to 2026-05-06
Date of Issue:	2026-05-11
Test Result:	**Pass***

* 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		2026-05-11		Original

Authorized for issue by:				
		Bill Chen/Project Engineer		
		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**
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207	Pass
Field Strength of the Fundamental Signal (15.249(a))		ANSI C63.10 (2020) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Restricted Band Around Fundamental Frequency		ANSI C63.10 (2020) 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 (2020) 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 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
20dB Bandwidth		ANSI C63.10 (2020) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass

Declaration of EUT Family Grouping:

Model No.: LKMSD650, LKMSD650A

Only the model LKMSD650 was tested, since according to the declaration from the applicant, the electrical circuit design, PCB layout, components used and internal wiring and functions were identical for the above models, with only difference on that between LKMSD650A and LKMSD65Q lies in

the fact that the former is equipped with a biometric

interface for connecting a facia l recognition module, whereas the latter is designed for connecting a palm vein module. Additionally, LKMSD650A incorporates a facial recognition light FPC.

3 Contents

4 General Information

4.1 Details of E.U.T.

Power supply:	Rechargeable Li-ion Battery Pack Model:ZNS-09G Nominal Voltage: DC 7.4V Rated Capacity:5000mAh Nominal Energy:37Wh
Operation Frequency:	24000-24250MHz
Modulation Type:	FMCW
Antenna Type:	Patch Antenna
Antenna Gain:	3.9dBi

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.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	Apple	A1443	REF. No.SEA05D11D
Type-C Cable	UGREEN	N/A	REF. No.SEA07B00

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	± 3.2dB
Field Strength of the Fundamental Signal (15.249(a))	± 6.0dB (Below 1GHz); ± 4.6dB (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 (above)
20dB Bandwidth	± 0.3%

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

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	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-12-15	2026-12-14
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2026-02-24	2027-02-23

Restricted Band Around Fundamental Frequency					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2026-02-02	2027-02-01
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04

Field Strength of the Fundamental					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2026-02-02	2027-02-01
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04

Radiated Emissions Below 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2026-02-02	2027-02-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04

Radiated Emissions Above 1GHz					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2026-02-02	2027-02-01
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Broad-Band Horn Antenna(15GHz-40GHz)	SCHWARZBECK	BBHA 9170	SEM003-15	2024-08-10	2025-08-09
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04
Waveguide(40-60GHz)	REBES	SWG-19025-FB	06303-01	2025-02-18	2028-02-17
Waveguide(50-75GHz)	REBES	SWG-15025-FB	01525-09	2025-02-18	2028-02-17
Waveguide(75-110GHz)	REBES	SWG-10025-FB	01509-01	2025-02-18	2028-02-17
Waveguide Harmonic Mixer(40-60GHz)	REBES	STH-19SF-S1	06937-01	2025-02-18	2028-02-17
Waveguide Harmonic Mixer(50-75GHz)	KEYSIGHT	M1970V	MY51390966	2025-02-18	2028-02-17
Waveguide Harmonic Mixer(75-110GHz)	KEYSIGHT	M1970W	MY51430883	2025-02-18	2028-02-17

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RF Conducted Test					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2026-02-03	2027-02-02
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-02-02	2027-02-01
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026-02-03	2027-02-02

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General used equipment					
Equipment	**Manufacturer**	**Model No.**	**Inventory No.**	**Cal Date**	**Cal Due Date**
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2026-02-14	2027-02-13

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

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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 3.9dBi

Antenna location: Refer to internal photo.

7 Radio Spectrum Matter Test Results

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

Test Requirement 47 CFR Part 15, Subpart C 15.207
Test Method: ANSI C63.10 (2020) Section 6.2
Test Engineer: Kaito Zeng

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		

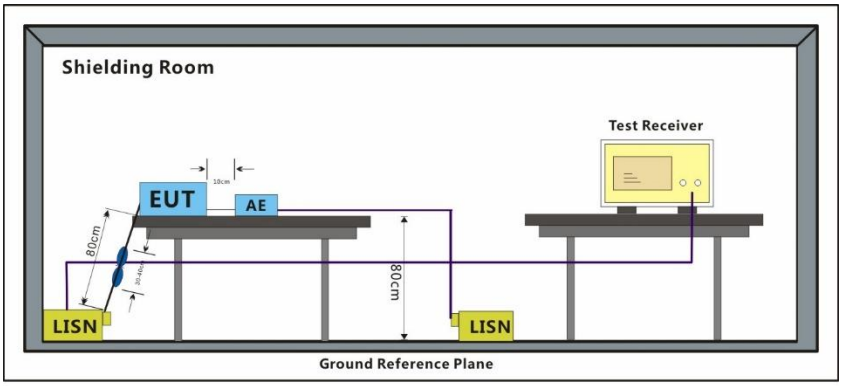
7.1.1 E.U.T. Operation

Operating Environment:
Temperature: 25.3 °C Humidity: 40.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.1.3 Test Setup Diagram



7.1.4 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.

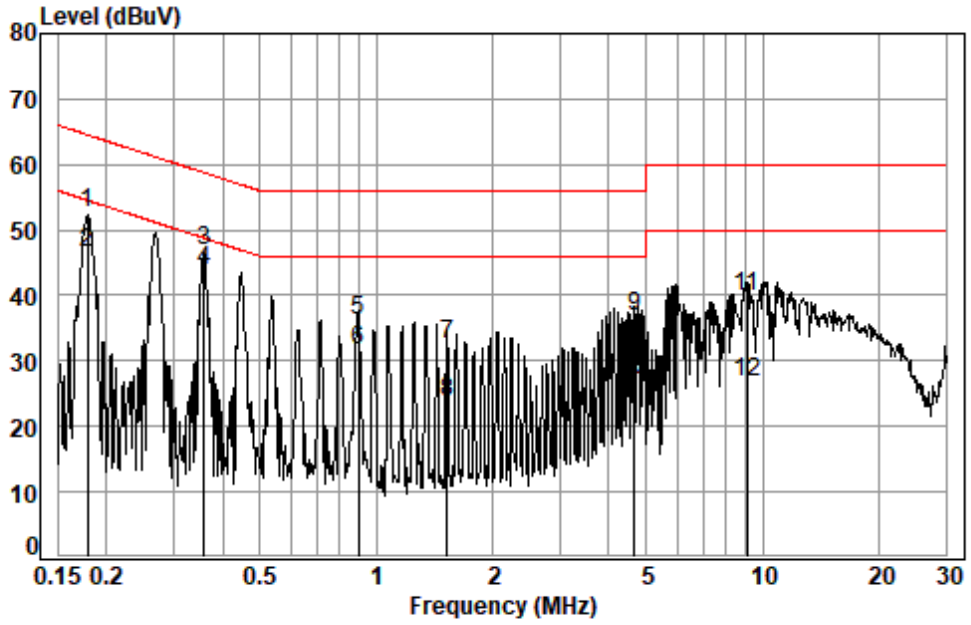
3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.

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 : Level=Read Level+ Cable Loss+ LISN Factor

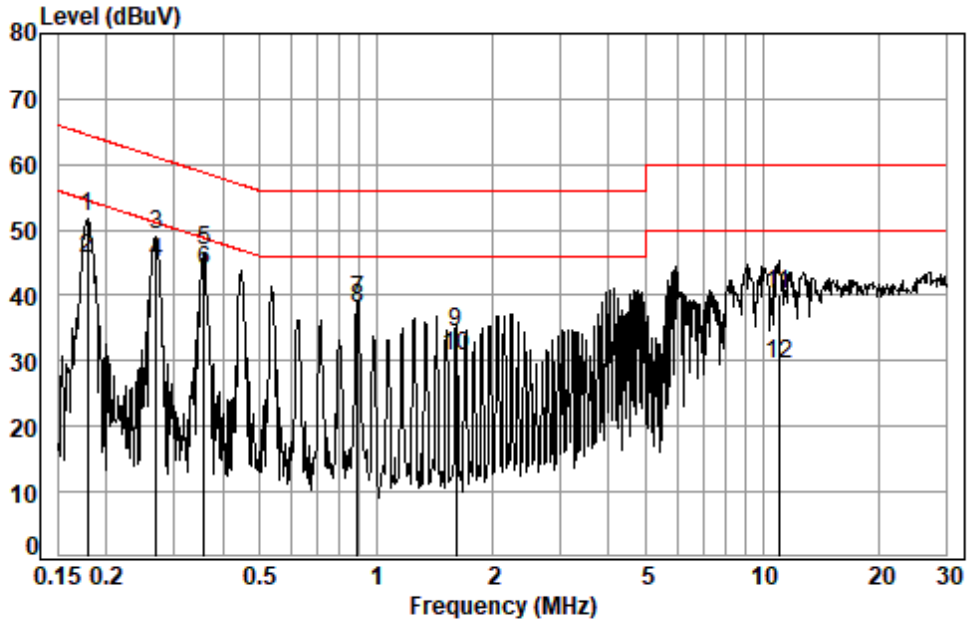
Test Mode: 07; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 01453AT/01454AT
Test mode: 07

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.1787	0.07	9.63	42.82	52.52	64.55	-12.03	QP
2		0.1787	0.07	9.63	36.80	46.50	54.55	-8.05	Average
3	*	0.3577	0.08	9.63	37.28	46.99	58.78	-11.79	QP
4	*	0.3577	0.08	9.63	34.11	43.82	48.78	-4.96	Average
5		0.8992	0.11	9.66	26.49	36.26	56.00	-19.74	QP
6		0.8992	0.11	9.66	21.83	31.60	46.00	-14.40	Average
7		1.5274	0.12	9.70	22.61	32.43	56.00	-23.57	QP
8		1.5274	0.12	9.70	13.90	23.72	46.00	-22.28	Average
9		4.6469	0.14	9.96	26.75	36.85	56.00	-19.15	QP
10		4.6469	0.14	9.96	17.04	27.14	46.00	-18.86	Average
11		9.1073	0.15	10.53	29.24	39.92	60.00	-20.08	QP
12		9.1073	0.15	10.53	15.94	26.62	50.00	-23.38	Average

Test Mode: 07; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 01453AT/01454AT
Test mode: 07

		Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
		MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1		0.1787	0.07	9.67	42.13	51.87	64.55	-12.68	QP
2		0.1787	0.07	9.67	35.76	45.50	54.55	-9.05	Average
3		0.2687	0.08	9.64	39.55	49.27	61.16	-11.89	QP
4		0.2687	0.08	9.64	35.16	44.88	51.16	-6.28	Average
5	*	0.3577	0.08	9.65	37.18	46.91	58.78	-11.87	QP
6	*	0.3577	0.08	9.65	33.99	43.72	48.78	-5.06	Average
7		0.8944	0.11	9.65	29.35	39.11	56.00	-16.89	QP
8		0.8944	0.11	9.65	28.15	37.91	46.00	-8.09	Average
9		1.6105	0.12	9.70	24.48	34.30	56.00	-21.70	QP
10		1.6105	0.12	9.70	20.86	30.68	46.00	-15.32	Average
11		11.0211	0.15	10.93	29.08	40.16	60.00	-19.84	QP
12		11.0211	0.15	10.93	18.44	29.52	50.00	-20.48	Average

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 (2020) Section 6.5&6.6

Measurement Distance: 0.5m

Test Engineer: Wade Li

Limit:

(1) The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

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

* Field strength limits are specified at a distance of 3 meters.

Fundamental Limit Conversion			
Average (mV/m) at 3M	Average (dBuV/m) at 3M	Average (dBuV/m) at 0.5M	Peak (dBuV/m) at 0.5M
250	107.9588	123.52	143.52

* (Limit = 107.9588 + 20LOG(3/0.5) = 123.52 dBuV/m)

7.2.1 E.U.T. Operation

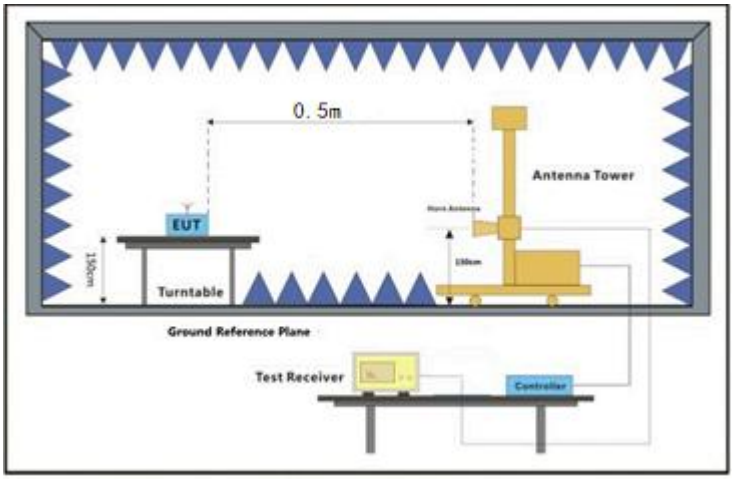
Operating Environment:

Temperature: 23.4 °C Humidity: 49.9 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode_Keep the EUT in transmitting with modulation mode.
Pre-scan	07	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.2.3 Test Setup Diagram



7.2.4 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 1-18GHz, 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. For 18-40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 1 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 40GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 0.5 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation

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.

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.

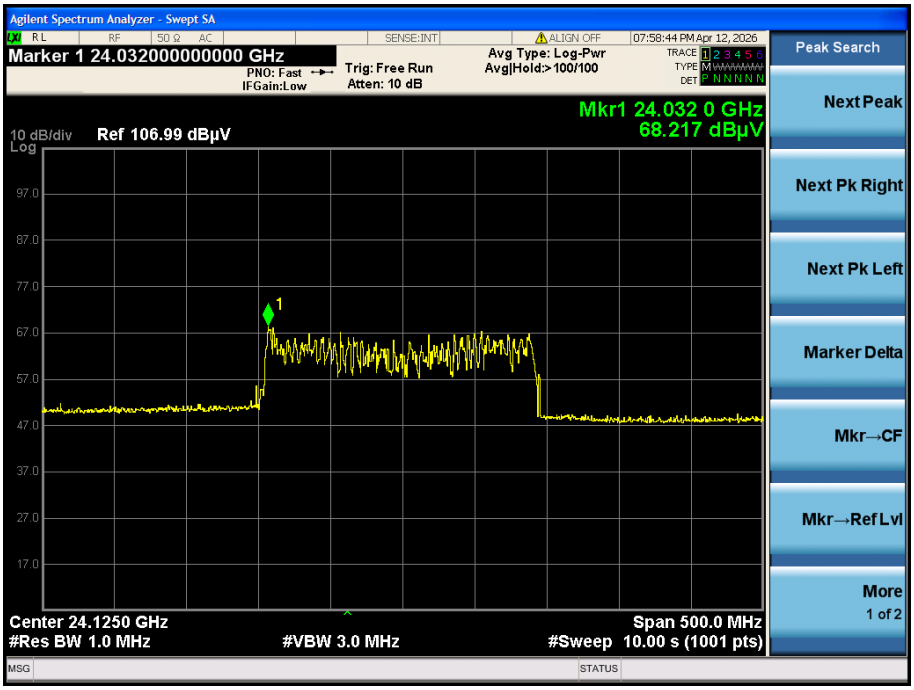
j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

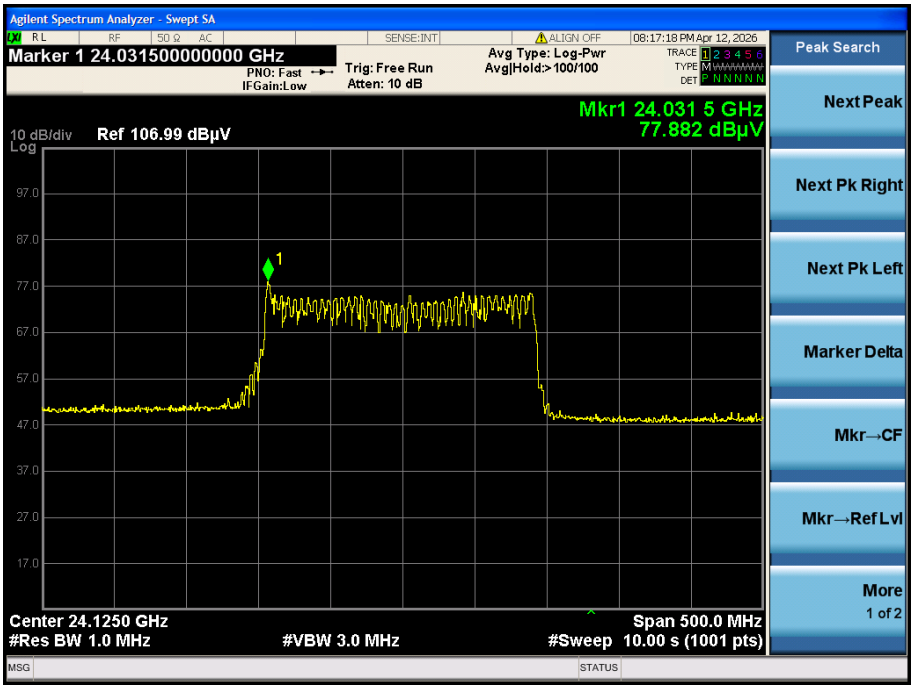
Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Test Data for Filed Strength of Fundamental

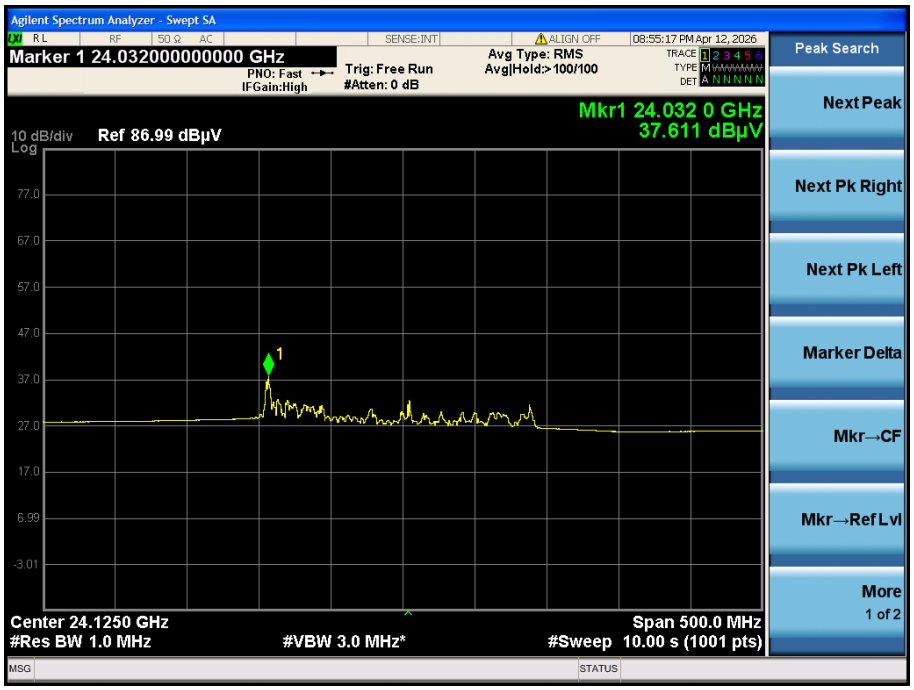
Horizontal_Peak



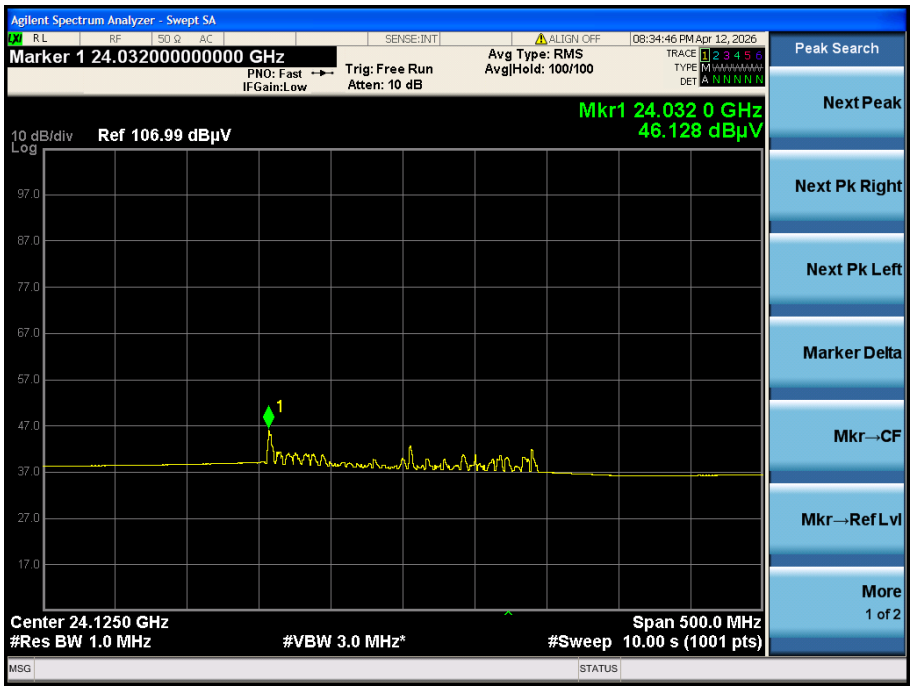
Vertical_Peak



Horizontal_Average



Vertical_Average



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Frequency (GHz)	Distance (m)	Polarity	Measured Filed strength dBuV/m	Desensitization Factor(dB)+Correction(dB)	Final Filed strength dBuV/m	Limit	Result	Remark
24.03	0.5	Horizontal	68.217	65.56	133.777	143.52	Pass	Peak
24.03	0.5	Horizontal	37.611	65.56	103.171	123.52	Pass	AVG
24.03	0.5	Vertical	77.882	65.56	143.442	143.52	Pass	Peak
24.03	0.5	Vertical	46.128	65.56	111.688	123.52	Pass	AVG

Note: Final Field strength [dBuv/m]=Mesured Field strength [dBuv/m]+Correction[dB]+ Desensitization Factor[dB]

Correction = Air Loss[dB] + Cable Loss + Test Antenna Gain = 43.2

The FMCW Desensitization factor

FMCW Witdh(MHz)	T_{chirp}(us)	RBW(MHz)	Desensitization Factor(dB)
186.88	6.3	1	22.36

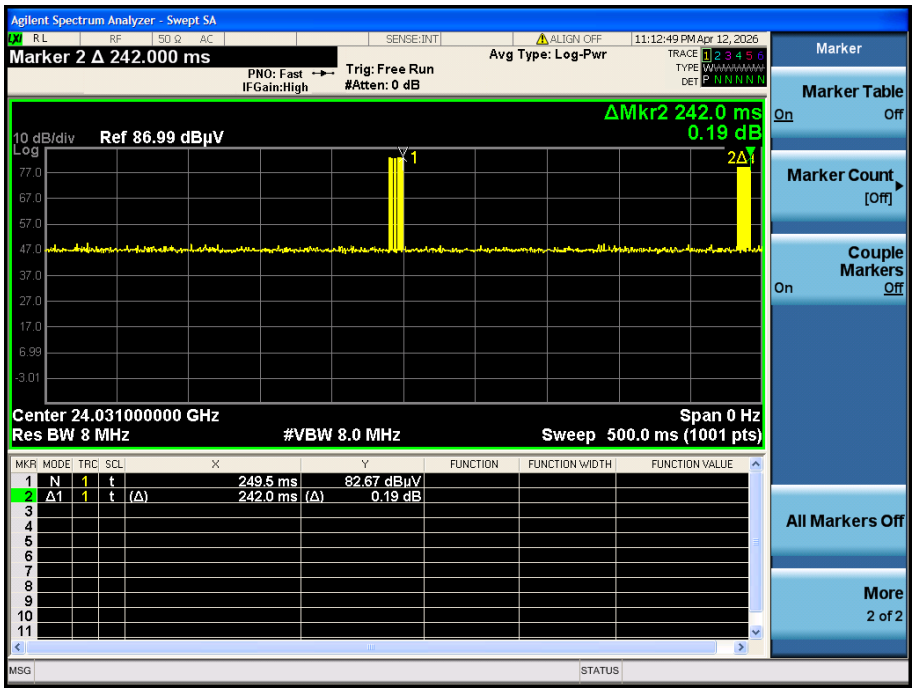
FMCW desensitization factor =-20*Log(α)=-20*Log(0.0762)= 22.36 dB

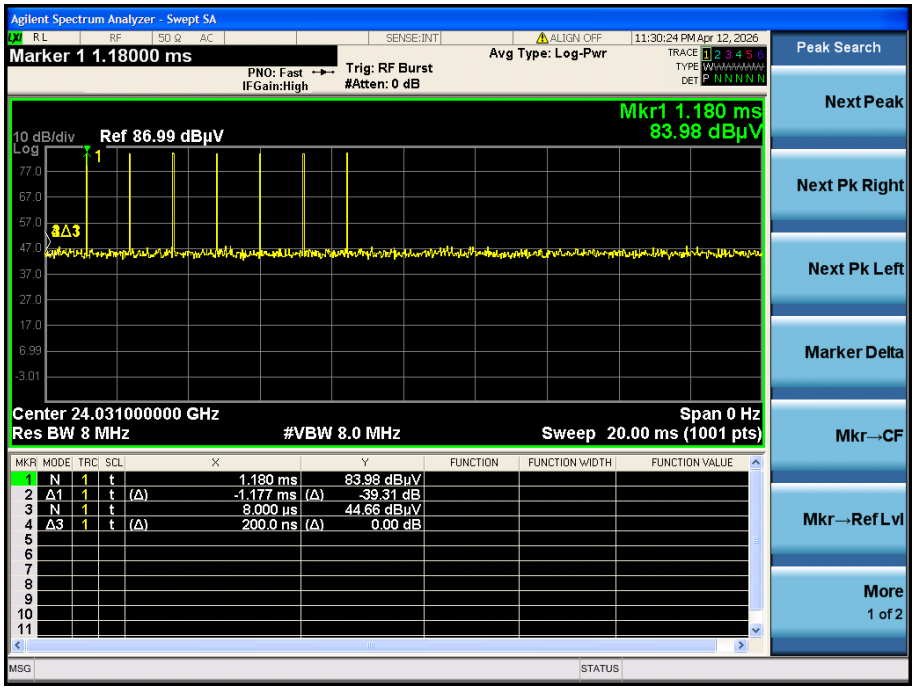
$$\alpha = \frac{1}{\sqrt{1+\left(\frac{2\ln(2)}{\pi}\right)^2\left(\frac{BW_{Chirp}}{T_{Chirp}B^2}\right)^2}}$$

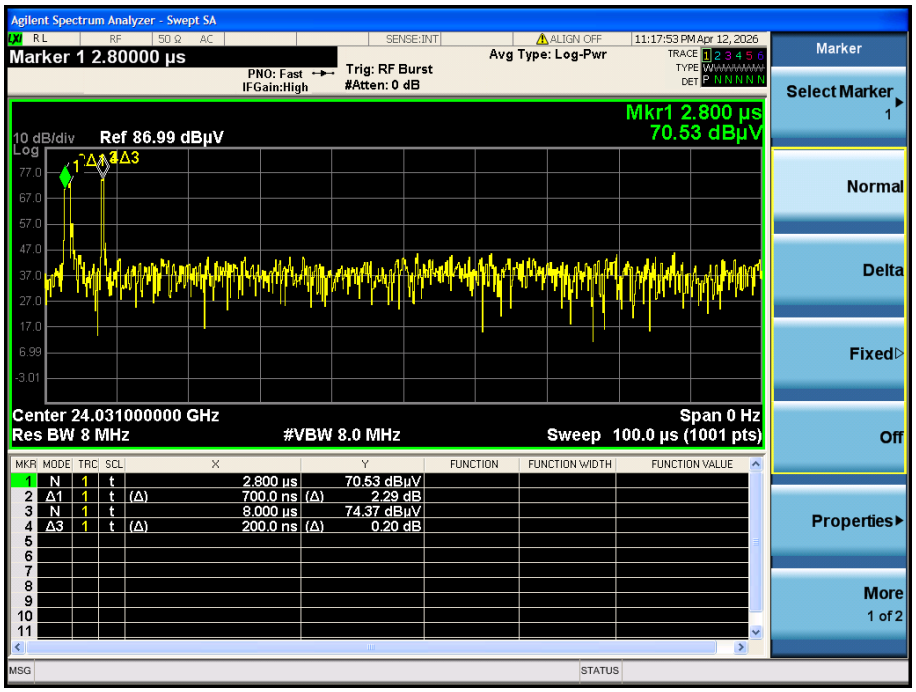
where

α	is the reduction in amplitude
BW_{Chirp}	is the FMCW Chirp Bandwidth
T_{Chirp}	is the FMCW Chirp Time
B	is the 3 dB IF Bandwidth = RBW

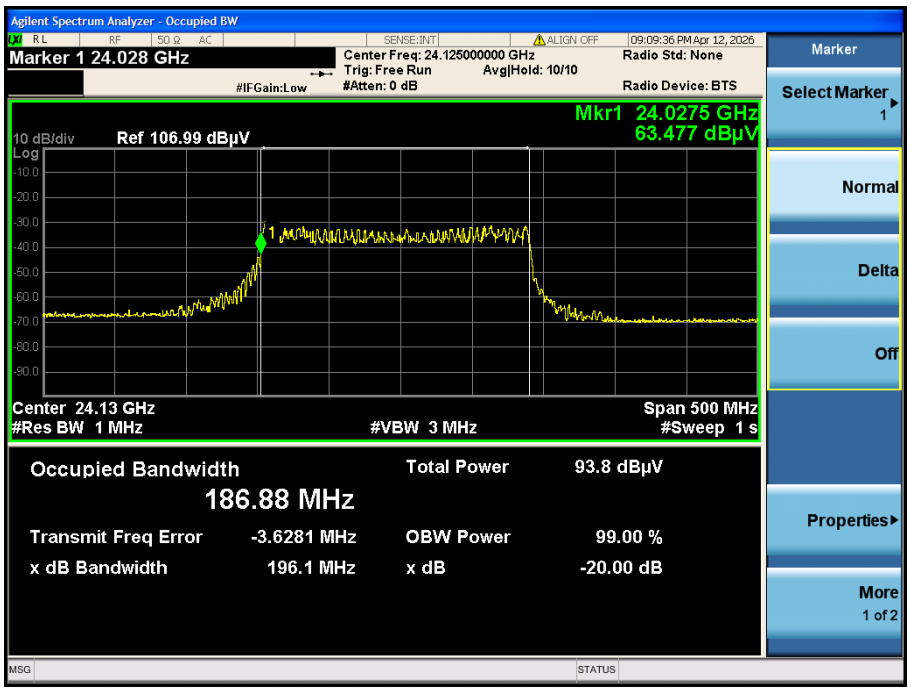
Tchirp: （700+200）ns * 7 =6.3 us







BWchirp is see the 99%BW .



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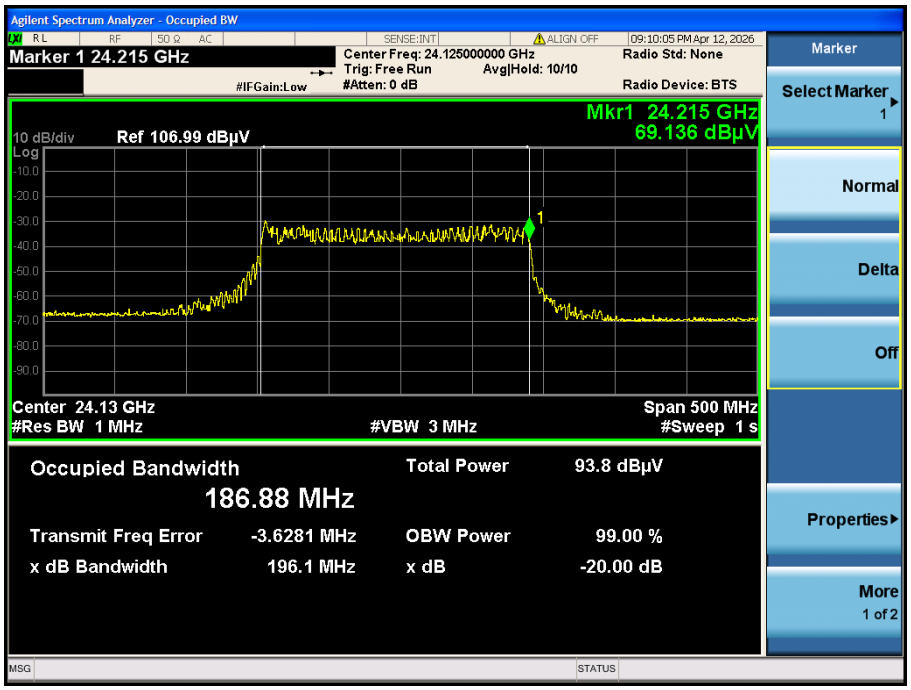


7.3 Restricted Band Around Fundamental Frequency

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

Test Method: ANSI C63.10 (2020) Section 6.10.5

Measurement Distance: 1m

Test Engineer: Wade Li

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
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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. Remark: For measurement distance 1m, the filed strength doesn't exceed 63.52 dBuV/m		

7.3.1 E.U.T. Operation

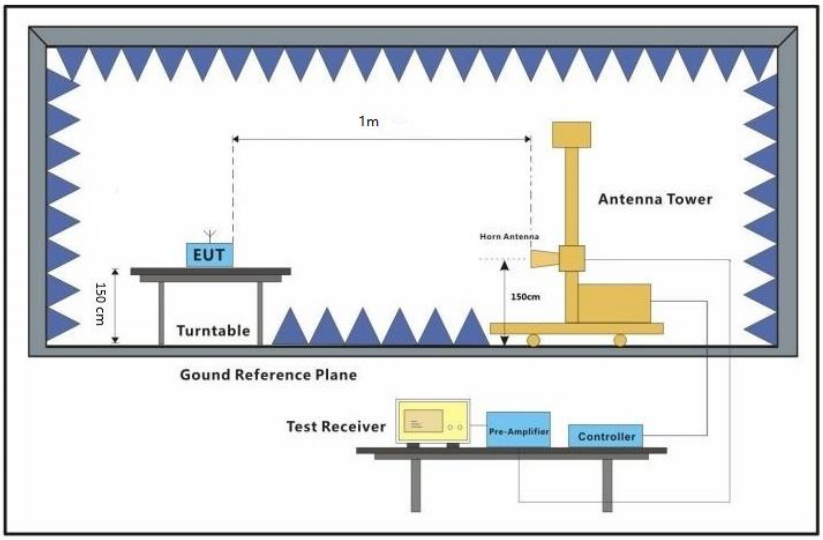
Operating Environment:

Temperature: 25.4 °C Humidity: 53.4 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode_Keep the EUT in transmitting with modulation mode.
Final test	07	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.3.3 Test Setup Diagram



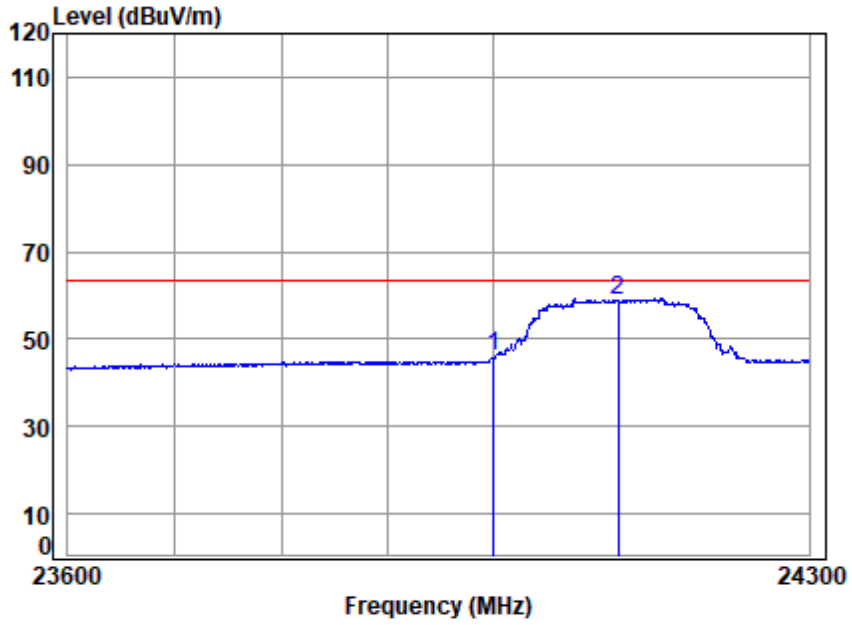
7.3.4 Measurement Procedure and Data

1) The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 1 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
2) 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.
3) 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.
4) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
5) 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.
6) 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.
7) Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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.

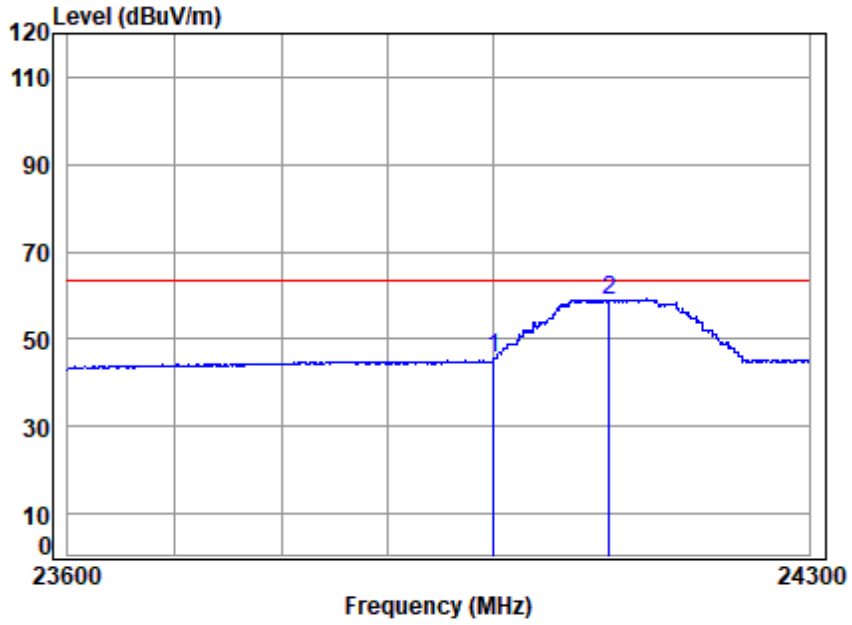
Test Mode: AV; Polarity: Horizontal



Site : chamber
Condition: 1m HORIZONTAL
Job No : 01453AT\01454AT
Mode : 24G Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	24000.000	6.78	40.00	51.80	51.18	46.16	63.54	-17.38	Average	0.00
2	q24117.440	6.79	39.93	51.78	64.02	58.96	63.54	-4.58	Average	0.00

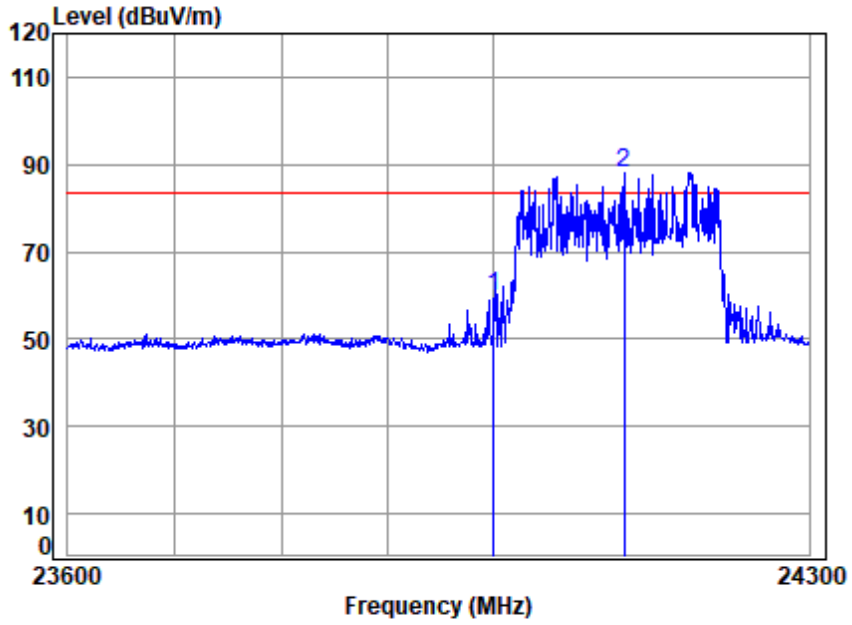
Test Mode: AV; Polarity: Vertical



Site : chamber
Condition: 1m VERTICAL
Job No : 01453AT\01454AT
Mode : 24G Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	24000.000	6.78	40.00	51.80	50.78	45.76	63.54	-17.78	Average	0.00
2	q24109.680	6.79	39.93	51.78	63.91	58.85	63.54	-4.69	Average	0.00

Test Mode: PK; Polarity: Horizontal



Site : chamber
Condition: 1m HORIZONTAL
Job No : 01453AT\01454AT
Mode : 24G Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	24000.000	6.78	40.00	51.80	64.57	59.55	83.54	-23.99	Peak	0.00
2	p24123.780	6.79	39.92	51.77	93.24	88.18	83.54	4.64	Peak	0.00

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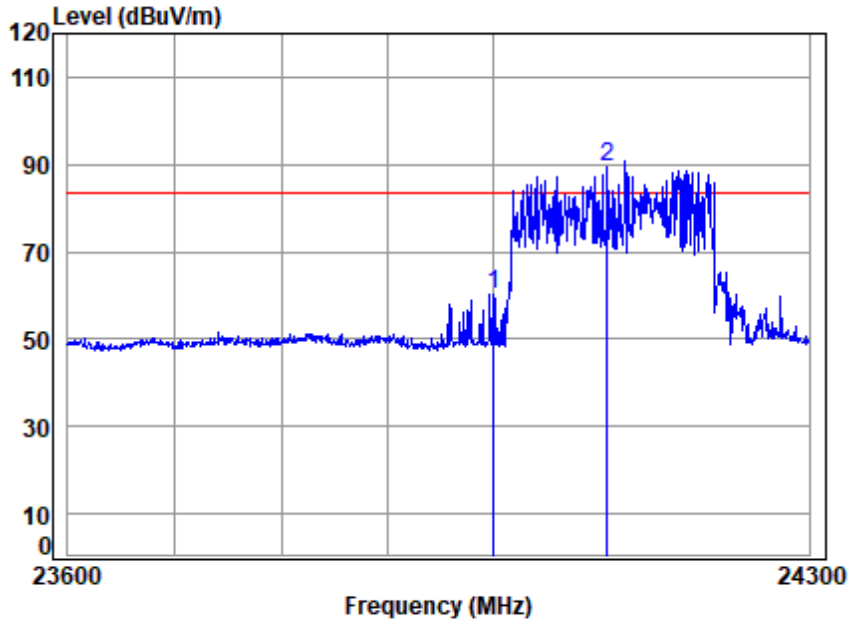
Test Mode: PK; Polarity: Vertical



Site : chamber
Condition: 1m VERTICAL
Job No : 01453AT\01454AT
Mode : 24G Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	24000.000	6.78	40.00	51.80	65.37	60.35	83.54	-23.19	Peak	0.00
2	p24107.570	6.79	39.93	51.78	94.27	89.21	83.54	5.67	Peak	0.00

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 (2020) Section 6.4&6.5
Measurement Distance: 3m
Test Engineer: Mason Wu

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

Note

1. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.

2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is 40log(3/300) = -80dB (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is 20log(10/3) = 10.46dB (for 10m test distance).

7.4.1 E.U.T. Operation

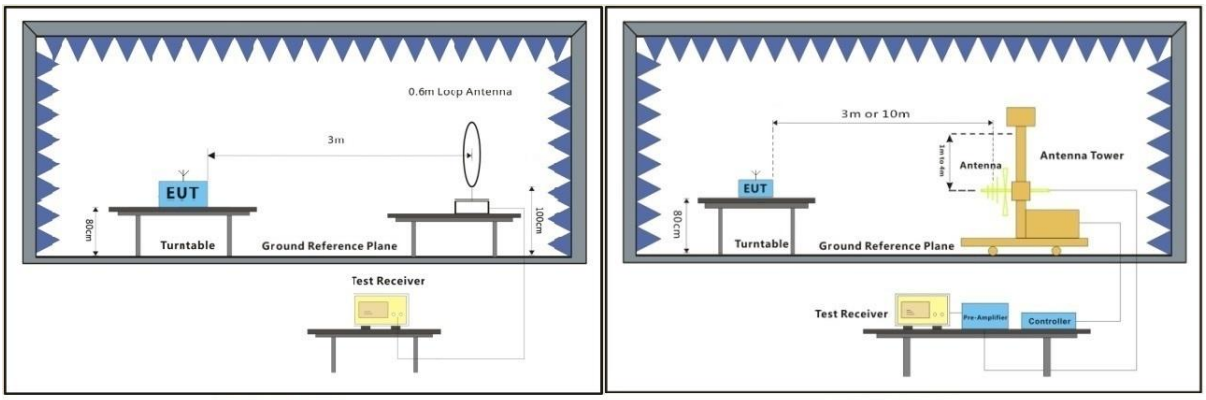
Operating Environment:

Temperature: 23.3 °C Humidity: 45.6 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Pre-scan	06	TX mode_Keep the EUT in transmitting with modulation mode.
Final test	07	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

7.4.3 Test Setup Diagram



Below 30MHz　　30MHz-1GHz

7.4.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3m or 10m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.

c. The antenna height is varied from 1m to 4m 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 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) 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.

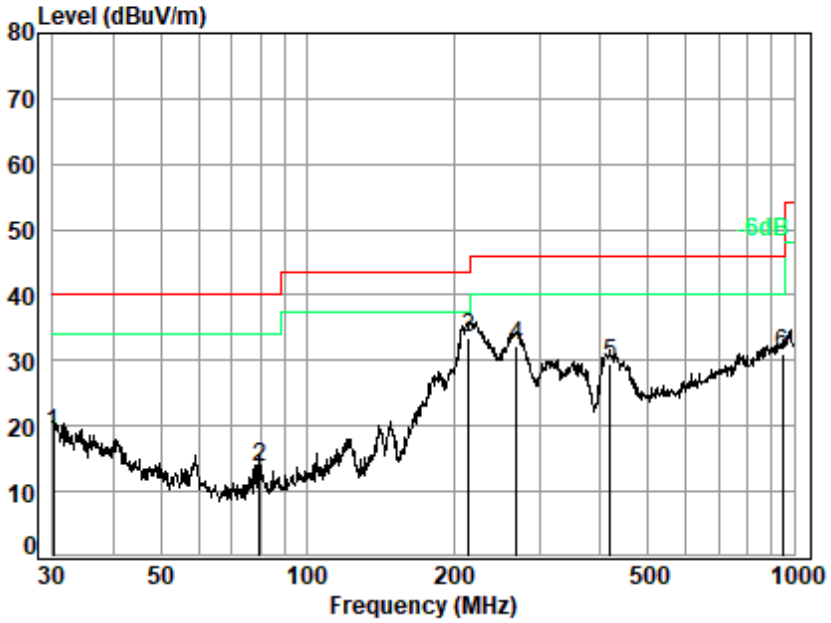
i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. 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 below 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.

2. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.

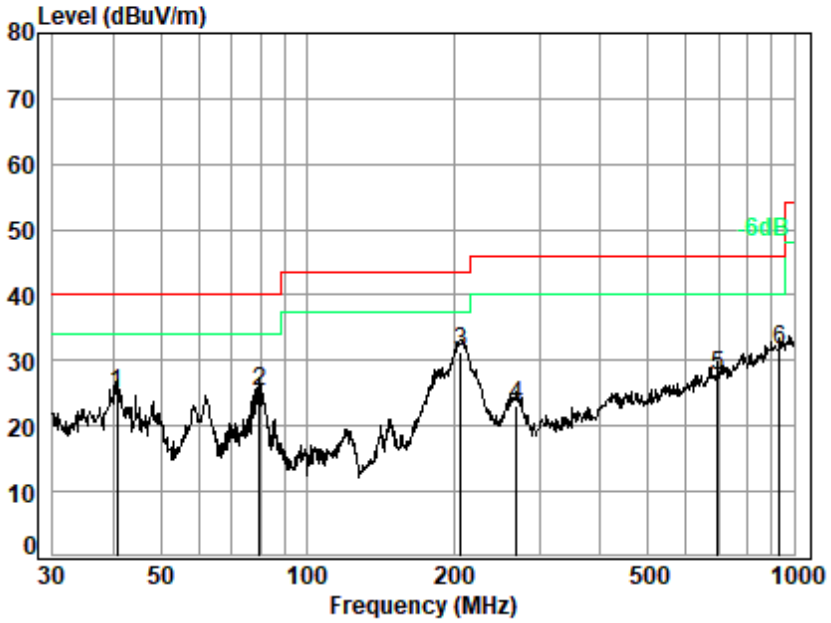
Test Mode: 07; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 01453AT/01454AT
Test Mode: 07

	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.105	21.40	0.74	27.65	24.45	18.94	40.00	-21.06	QP
2	79.800	10.68	1.10	27.61	29.44	13.61	40.00	-26.39	QP
3 q	214.514	14.97	1.77	27.75	44.59	33.58	43.50	-9.92	QP
4	269.428	17.06	2.00	27.58	40.89	32.37	46.00	-13.63	QP
5	419.108	20.68	2.56	27.79	34.08	29.53	46.00	-16.47	QP
6	945.440	29.06	4.07	26.70	24.61	31.04	46.00	-14.96	QP

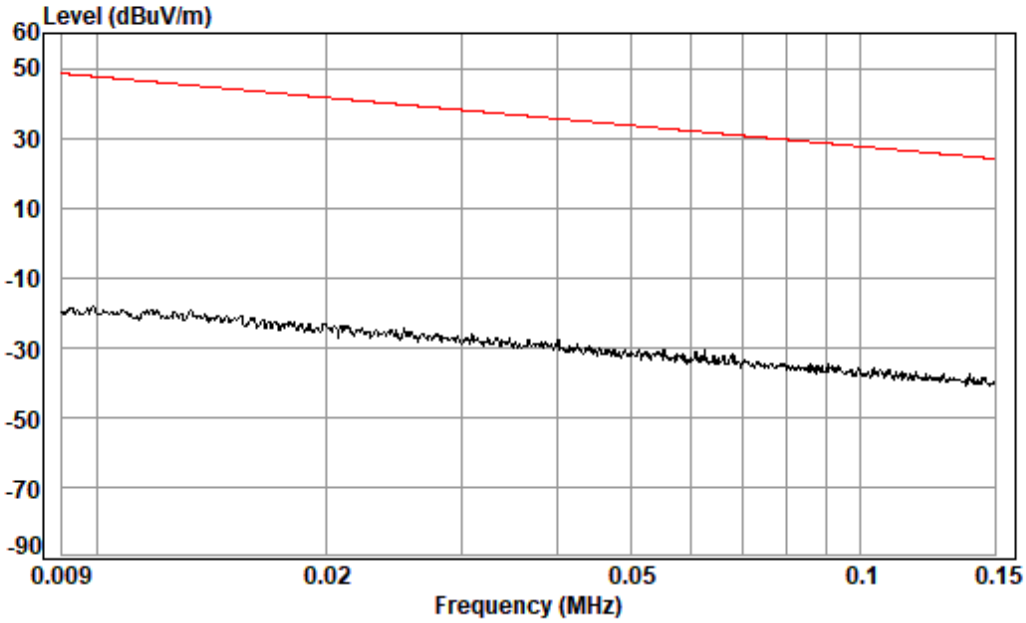
Test Mode: 07; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 01453AT/01454AT
Test Mode: 07

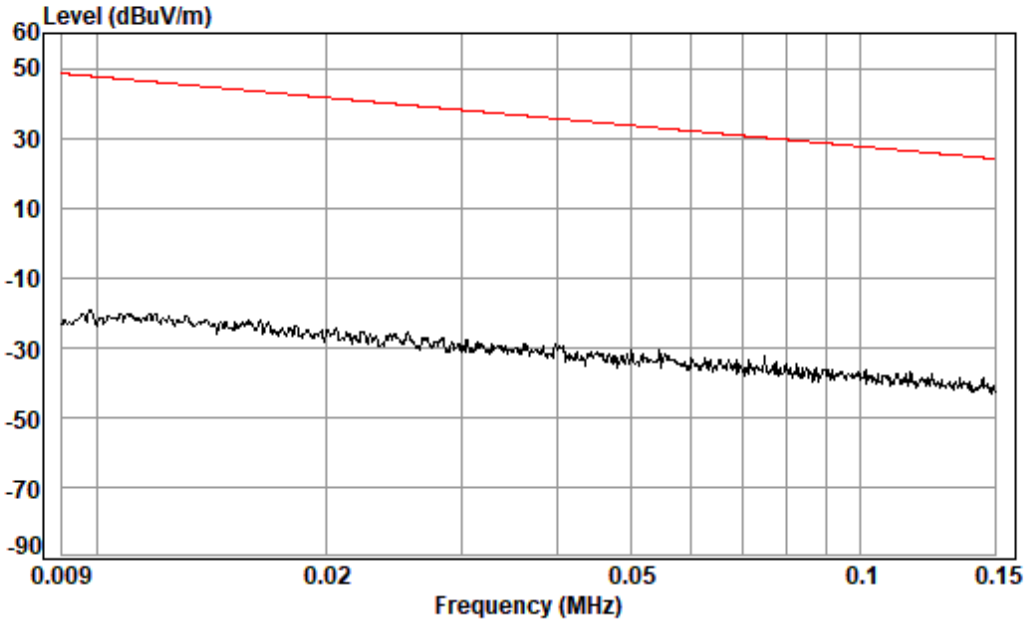
	Freq	Ant Factor	Cable Loss	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	40.702	15.90	0.83	27.64	35.84	24.93	40.00	-15.07	QP
2	79.800	10.68	1.10	27.61	41.10	25.27	40.00	-14.73	QP
3 q	206.398	14.68	1.73	27.78	42.55	31.18	43.50	-12.32	QP
4	269.428	17.06	2.00	27.58	31.64	23.12	46.00	-22.88	QP
5	696.857	25.83	3.40	27.84	26.40	27.79	46.00	-18.21	QP
6	932.272	28.86	4.04	26.78	25.47	31.59	46.00	-14.41	QP

Test Mode:07



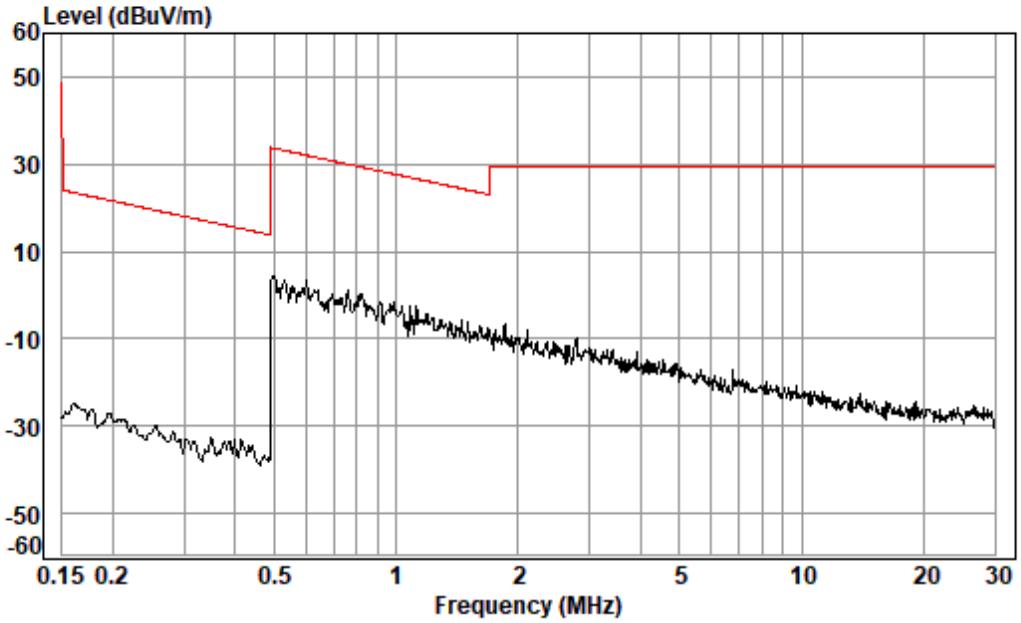
Condition: 3m
Job No. : 01453AT
Test Mode: 07
: coaxial

Test Mode:07



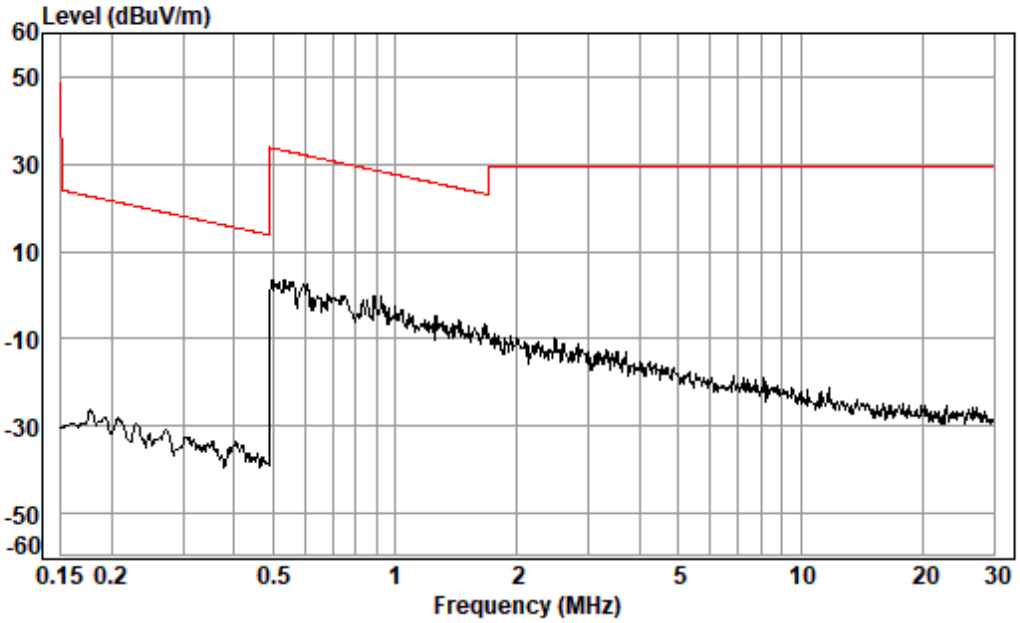
Condition: 3m
Job No. : 01453AT
Test Mode: 07
: coplanar

Test Mode:07



Condition: 3m
Job No. : 01453AT
Test Mode: 07
: coaxial

Test Mode:07



Condition: 3m
Job No. : 01453AT
Test Mode: 07
: coplanar

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 (2020) Section 6.6
Measurement Distance: 1G-18GHz：3m
18G-40GHz：1m
Above 40G:0.5m
Test Engineer: Logic Wang

Limit:

(2) The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

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

And

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
Above 960	500	3

* Field strength limits are specified at a distance of 3 meters.

Fundamental Limit Conversion			
Average (mV/m) at 3M	Average (dBuV/m) at 3M	Average (dBuV/m) at 0.5M	Peak (dBuV/m) at 0.5M
250	107.9588	123.52	143.52

* (Limit = 107.9588 + 20LOG(3/0.5) = 123.52 dBuV/m)

Harmonic Limit Conversion			
Average (uV/m) at 3M	Average (dBuV/m) at 3M	Average (dBuV/m) at 0.5M	Peak (dBuV/m) at 0.5M
2500	67.9588	83.52	103.52

*(Limit=67.9588+20LOG(3/0.5)=83.52 dBuV/m)

(3) Emissions 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 (follow the table), whichever is the lesser attenuation.

Frequency	Field Strength microvolts/m at specific distance	
	Peak	AVG
18-40GHz	83.54dBuV/m@1m	63.54dBuV/m@1m
Above 40GHz	89.56dBuV/m@0.5m	69.56dBuV/m@0.5m

7.5.1 E.U.T. Operation

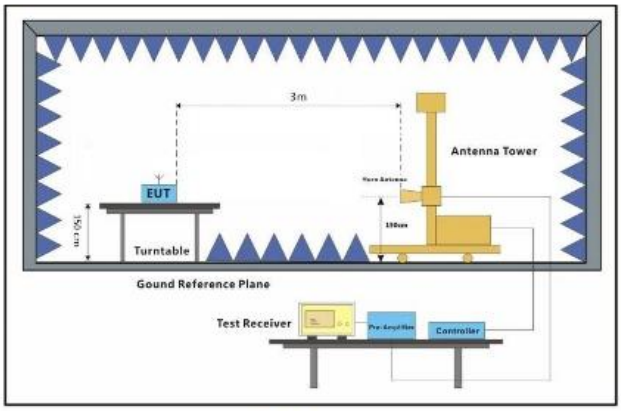
Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1015 mbar

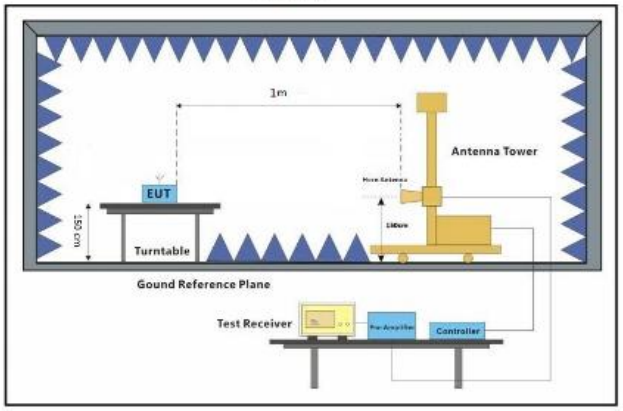
7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode_Keep the EUT in transmitting with modulation mode.
Pre-scan	07	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

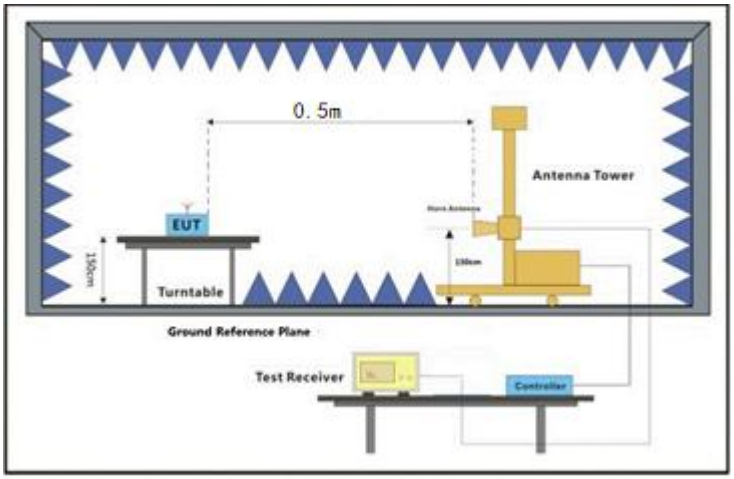
7.5.3 Test Setup Diagram



1GHz-18GHz



18GHz-40GHz



Above 40GHz

7.5.4 Measurement Procedure and Data

a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5m above the ground at a 3m fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3m away from the interference-receiving antenna from 1GHz to 18GHz, and 1m away from the interference-receiving antenna above 18GHz.

b. The interference-receiving antenna was mounted on the variable-height antenna tower, with its boresight facing the EUT throughout the test.

c. The antenna height is varied from 1m to 4m 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 1m to 4m 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. Test the EUT in the lowest channel, the middle channel, the Highest channel.

g. 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.

h. Repeat above procedures until all frequencies measured was complete.

Remark:

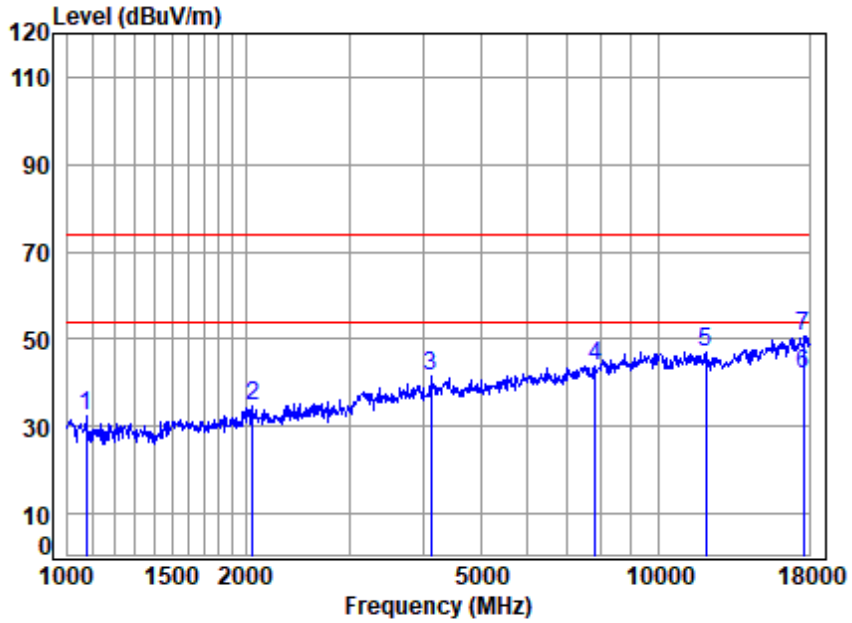
1. Scan from 1GHz to 10th harmonic of the highest frequency or 40 GHz, whichever is lower.

2. 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.

3. For the frequency above 18GHz, testing had been executed under all test modes, only the worst-case test curve is displayed in the report.

4. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst-case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.

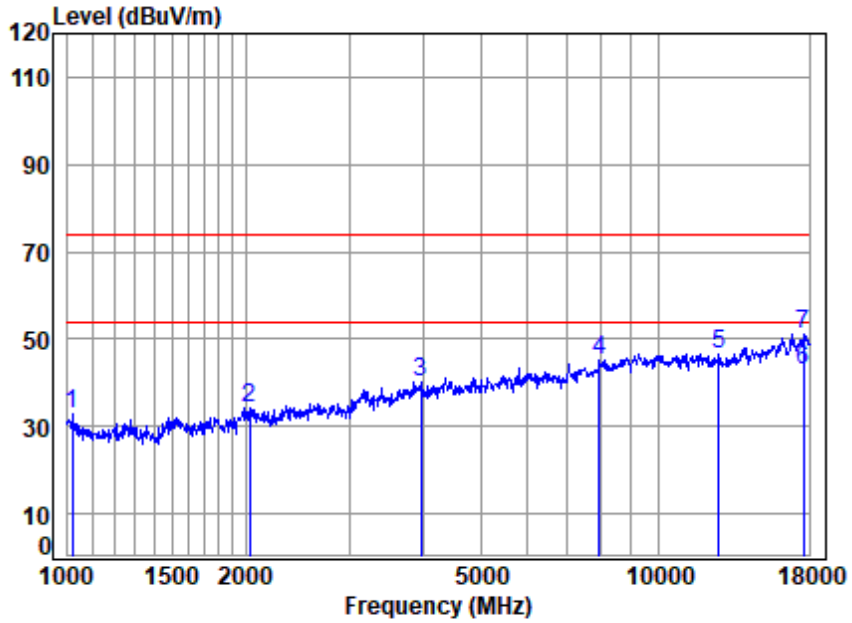
Test Mode: 06; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 01453AT\01454AT
Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1074.934	5.75	24.20	54.63	57.06	32.38	74.00	-41.62	Peak	0.00
2	2053.822	5.06	28.98	54.91	55.39	34.52	74.00	-39.48	Peak	0.00
3	4121.768	6.97	33.35	54.29	55.36	41.39	74.00	-32.61	Peak	0.00
4	7807.262	8.83	36.40	53.12	51.81	43.92	74.00	-30.08	Peak	0.00
5	12044.520	11.63	37.76	53.20	50.89	47.08	74.00	-26.92	Peak	0.00
6	q17639.470	11.28	43.68	52.58	39.75	42.13	54.00	-11.87	Average	0.00
7	p17639.470	11.28	43.68	52.58	48.19	50.57	74.00	-23.43	Peak	0.00

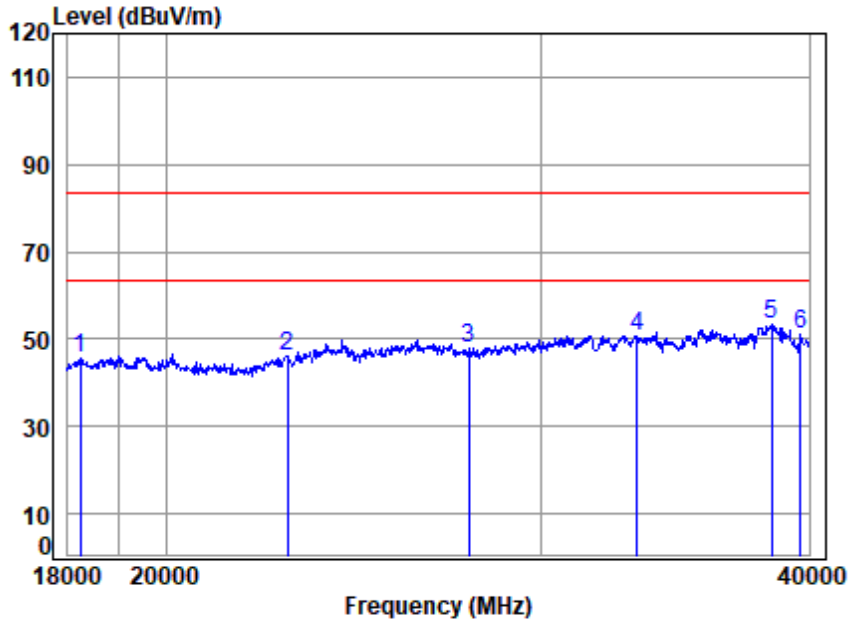
Test Mode: 06; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 01453AT\01454AT
Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	1017.493	5.87	25.74	54.61	55.79	32.79	74.00	-41.21	Peak	0.00
2	2030.214	5.04	28.92	54.90	55.03	34.09	74.00	-39.91	Peak	0.00
3	3958.309	6.84	33.42	54.33	54.29	40.22	74.00	-33.78	Peak	0.00
4	7943.838	9.01	36.41	53.11	53.06	45.37	74.00	-28.63	Peak	0.00
5	12651.130	11.30	38.00	53.20	50.52	46.62	74.00	-27.38	Peak	0.00
6	q17639.470	11.28	43.68	52.58	40.67	43.05	54.00	-10.95	Average	0.00
7	p17639.470	11.28	43.68	52.58	48.67	51.05	74.00	-22.95	Peak	0.00

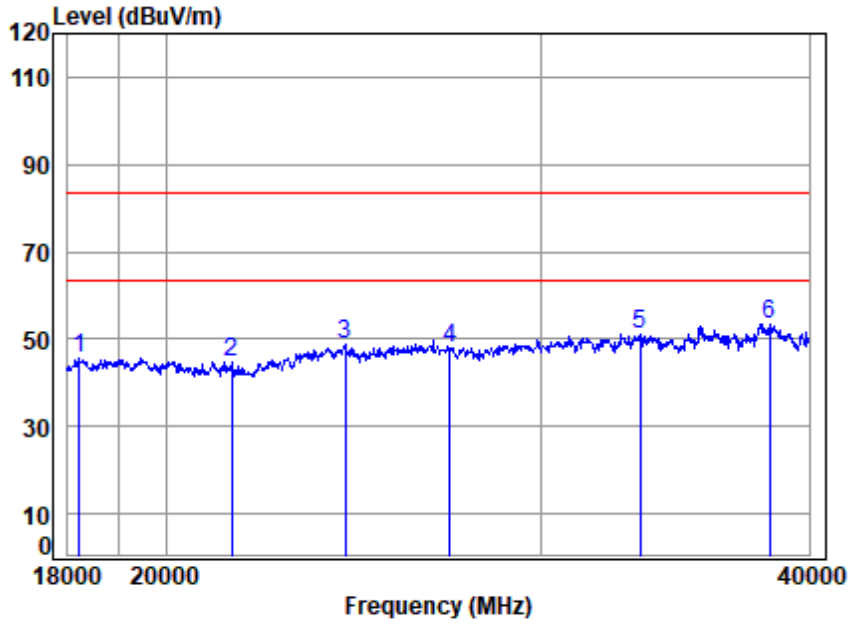
Test Mode: 06; Polarity: Horizontal



Site : chamber
Condition: 1m HORIZONTAL
Job No : 01453AT\01454AT
Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	18246.010	5.00	38.17	57.47	59.74	45.44	83.54	-38.10	Peak	0.00
2	22799.300	6.59	39.52	53.92	53.83	46.02	83.54	-37.52	Peak	0.00
3	27725.830	7.07	39.94	52.55	53.41	47.87	83.54	-35.67	Peak	0.00
4	33235.730	8.05	41.90	51.79	52.69	50.85	83.54	-32.69	Peak	0.00
5	p38403.770	7.61	43.86	51.32	53.30	53.45	83.54	-30.09	Peak	0.00
6	39618.550	7.55	43.55	54.04	54.03	51.09	83.54	-32.45	Peak	0.00

Test Mode: 06; Polarity: Vertical



Site : chamber
Condition: 1m VERTICAL
Job No : 01453AT\01454AT
Mode : RSE TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1	18231.450	4.98	38.18	57.48	59.90	45.58	83.54	-37.96	Peak	0.00
2	21473.980	6.01	38.24	55.16	55.51	44.60	83.54	-38.94	Peak	0.00
3	24264.480	6.80	39.84	51.75	54.00	48.89	83.54	-34.65	Peak	0.00
4	27156.140	7.36	40.22	52.43	52.85	48.00	83.54	-35.54	Peak	0.00
5	33342.060	7.98	41.86	51.69	52.88	51.03	83.54	-32.51	Peak	0.00
6	p38342.480	7.65	43.87	51.16	53.03	53.39	83.54	-30.15	Peak	0.00

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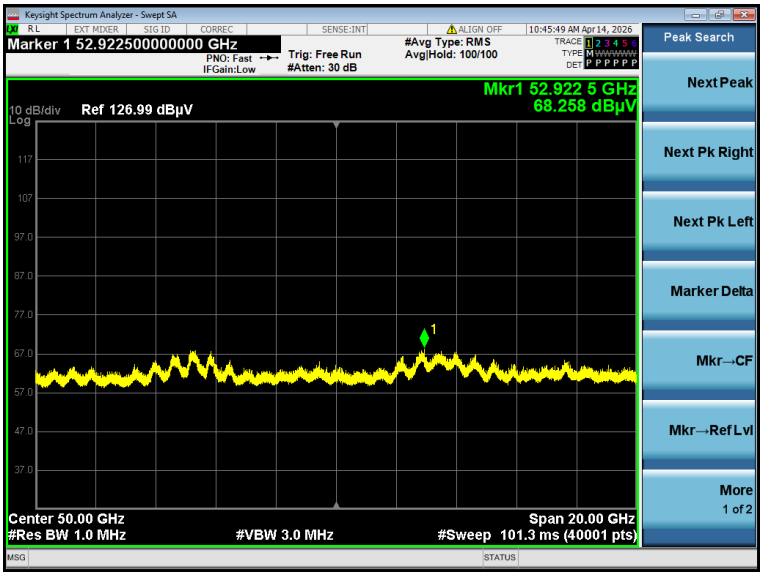
Radiation Spurious Emission

40GHz-60GHz; Test Mode: 06; Polarity: Horizontal

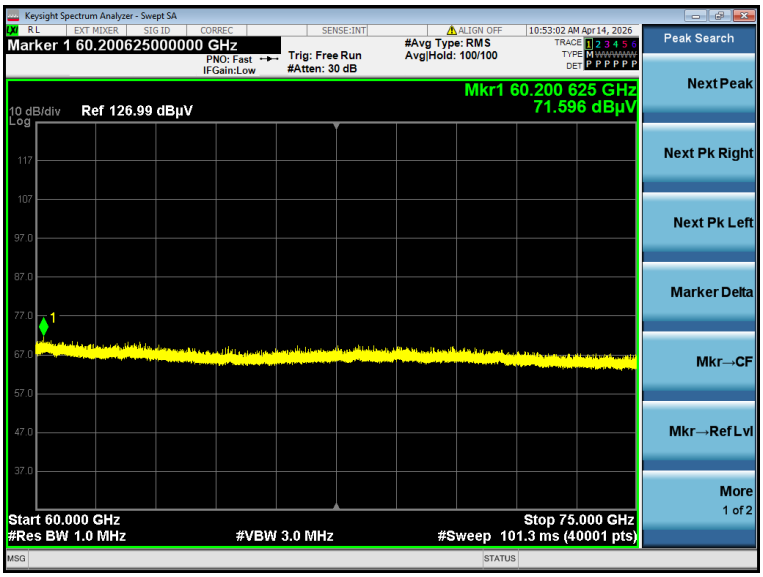


40GHz-60GHz; Test Mode: 06; Polarity: Vertical

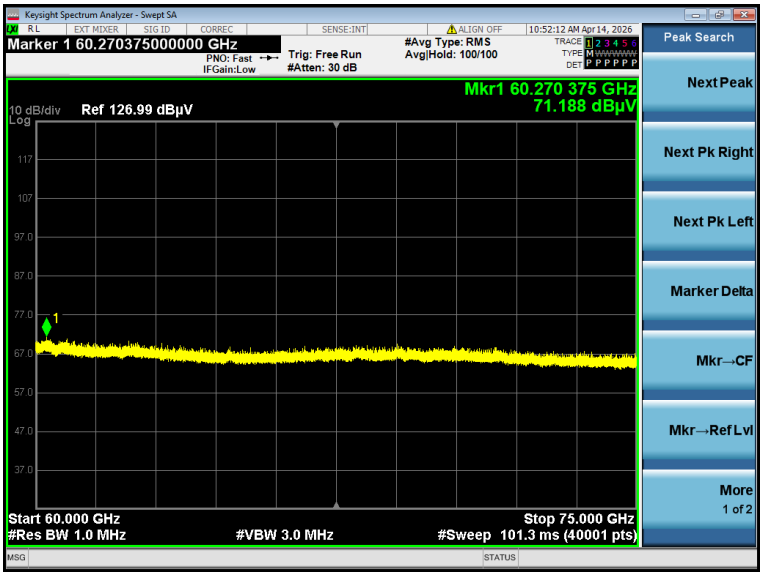
Frequency (GHz)	Distance (M)	Peak Value (dBuv/m)	Peak Limit (dBuv/m)	Polarization	Result
52.9225	0.5	68.258	89.56	H	PASS
45.2935	0.5	68.143	89.56	V	PASS

.

60-75GHz Test Mode: 06; Polarity: Horizontal

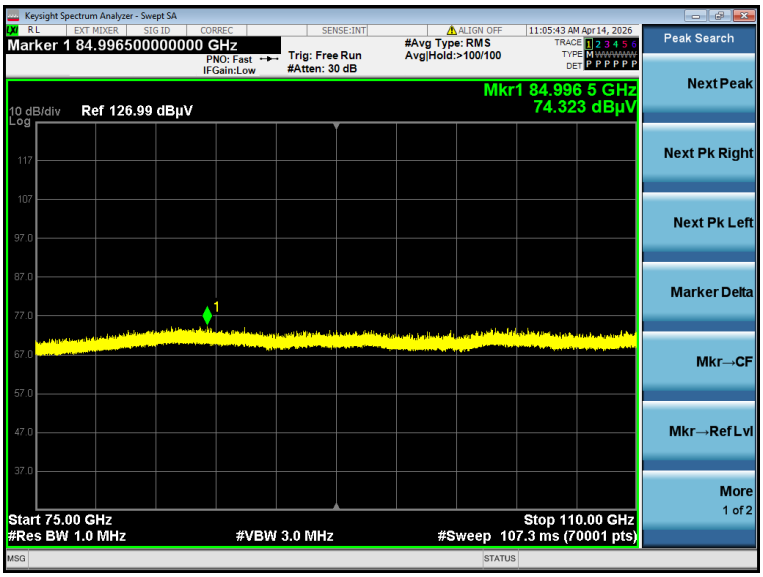


60-75 GHz Test Mode: 06; Polarity: Vertical

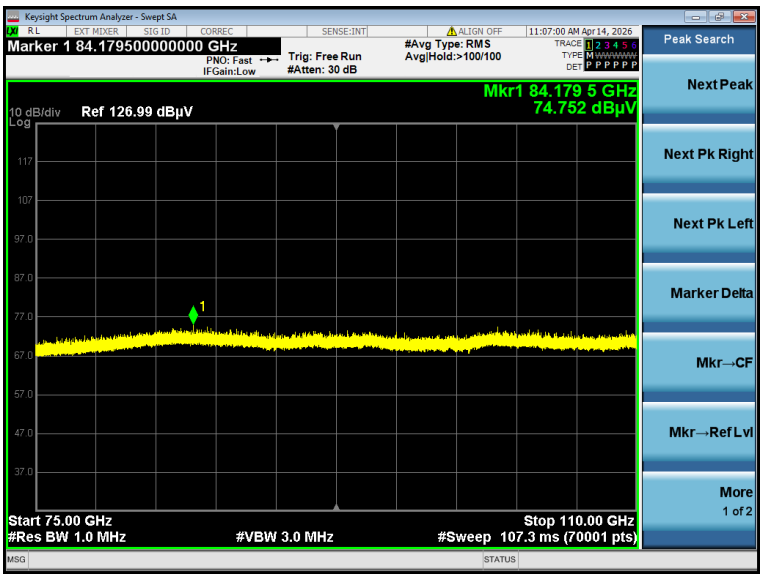


Frequency (GHz)	Distance (M)	Peak Value (dBuv/m)	Peak Limit (dBuv/m)	Polarization	Result
60.201	0.5	71.596	89.56	H	PASS
60.270	0.5	71.188	89.56	V	PASS

75-110 GHz Test Mode: 06; Polarity: Horizontal



75-110 GHz Test Mode: 06; Polarity: Vertical



Frequency (GHz)	Distance (M)	Peak Value (dBuv/m)	Peak Limit (dBuv/m)	Polarization	Result
84.9965	0.5	74.323	89.56	H	PASS
84.1795	0.5	74.752	89.56	V	PASS

7.6 20dB Bandwidth & 99% Occupied Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
Test Method: ANSI C63.10 (2020) Section 6.9
Test Engineer: Mingli Hu

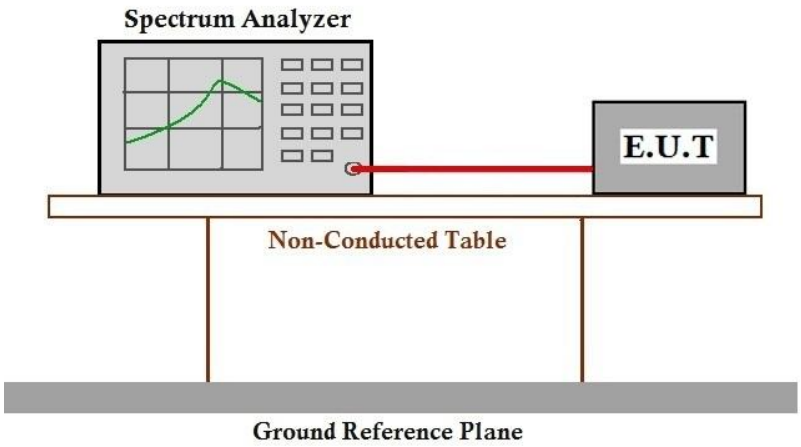
7.6.1 E.U.T. Operation

Operating Environment:
Temperature: 22.3 °C Humidity: 42.3 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	06	TX mode_Keep the EUT in transmitting with modulation mode.
Pre-scan	07	Charge + TX mode_Keep the EUT in charging and transmitting with modulation mode.

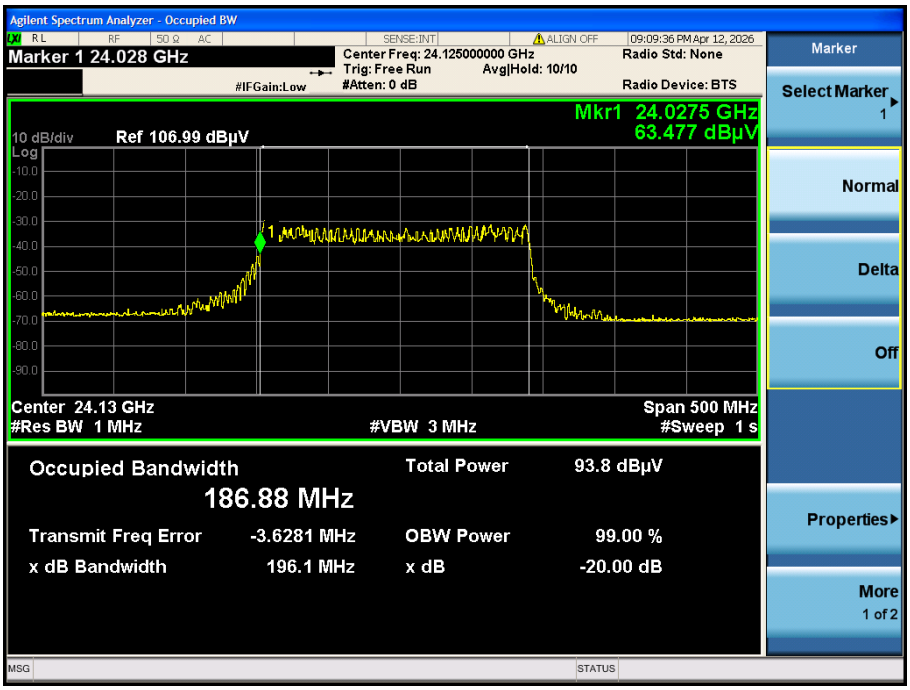
7.6.3 Test Setup Diagram

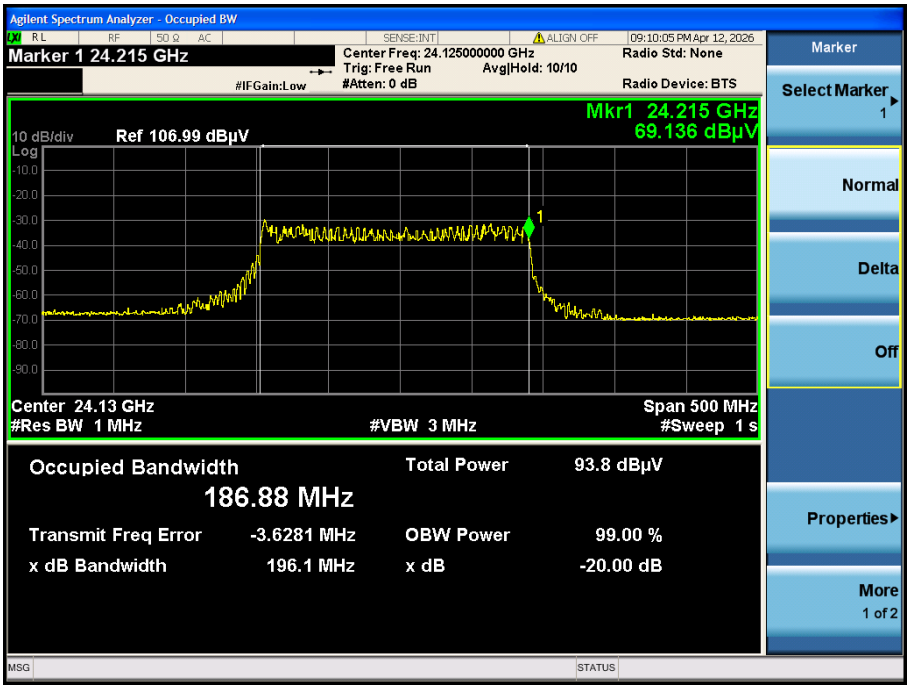


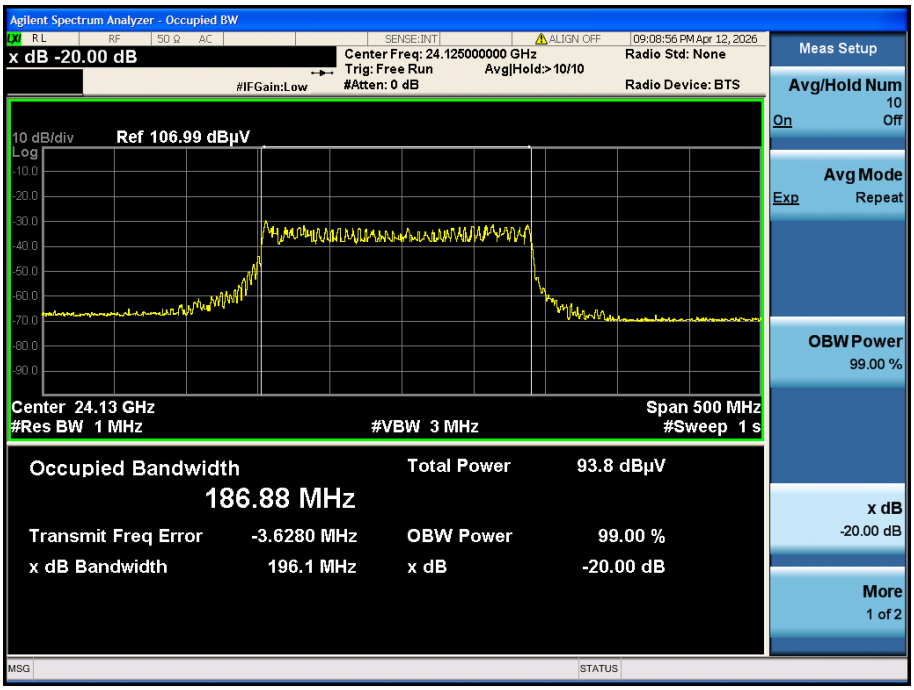
7.6.4 Measurement Procedure and Data

20dB Bandwidth & 99 Occupied Bandwidth

Test Data:







Low Frequency (GHz)	Limit (GHz)	High Frequency (GHz)	Limit (GHz)	-20dB (MHz)	Result
24.0275	⩾24.00	24.2150	⩽24.25	196.1	Pass

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8 Test Setup Photo

Refer to Setup Photo for SZCR2604001453AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2604001453AT

- End of the Report -