

FCC ID: OMOTX145W

Report No. Equipment Model Name Brand Name Applicant Address	 BTL-FCCP-1-2304C040 Glide Wind Sensor TX145W, TXxxxx, TXxxxx, TXxxxxx, TXxxxxx, TXxxxx-xx, TXxxx-xx, TXxxx-xx, TXxxxx-xx, TXxxxx-xx, TXxxx-xx, TXxxx-xx, TXxxx-xx, TXxxx-xx, TXxxxx-xx, TXxxx-xx, Txxxx-x, Txxx-x, Txxxx-x, Txxxx, Txxxx-x, Txxxx-x, Txxxx-x, Txxxx-
Radio Function	: 433.92 MHz
FCC Rule Part(s) Measurement Procedure(s)	: FCC CFR Title 47, Part 15, Subpart C (15.231) : ANSI C63.10-2013
Date of Receipt Date of Test Issued Date	: 2023/3/6 : 2023/4/27 ~ 2023/5/2 : 2023/5/15

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.



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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-1-2304C040	R00	Original Report.	2023/5/15	Valid

1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions		N/A	NOTE(1)
15.209 15.231(b)	Radiated Emissions	APPENDIX A APPENDIX B	Pass	
15.231(c)	20 dB Spectrum Bandwidth	APPENDIX C	Pass	
15.231(a)(1)	Timing Testing	APPENDIX D	Pass	

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.(2) The report format version is TP.1.1.1.



1.1 TEST FACILITY

 The test locations stated below are under the TAF Accreditation Number 0659.

 The test location(s) used to collect the test data in this report are:

 No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan

 (FCC DN: TW0659)

 □
 C05
 □
 CB11
 ⊠
 SR10

□ SR11

No. 72, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan (FCC DN: TW0659)

□ C06 ⊠ CB21 □ CB22

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k} = 2$, providing a level of confidence of approximately **95**%. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 U_{cispr} requirement.

A. Radiated emissions test :

Test Site	Measurement Frequency Range	U,(dB)
	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
CB21	1 GHz ~ 6 GHz	5.21
CB21	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

B. Conducted test :

Test Item	U,(dB)
20 dB Spectrum Bandwidth	0.5338

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

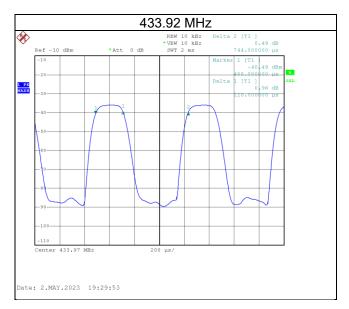
Test Item	Environment Condition	Test Voltage	Tested by
Radiated emissions below 1 GHz	Refer to data	DC 4.5V	Mark Wang
Radiated emissions above 1 GHz	Refer to data	DC 4.5V	Mark Wang
20 dB Spectrum Bandwidth	22.3 °C, 61 %	DC 4.5V	Tim Lee
Timing Testing	22.3 °C, 61 %	DC 4.5V	Tim Lee



1.4 DUTY CYCLE

If duty cycle is \geq 98 %, duty factor is not required. If duty cycle is < 98 %, duty factor shall be considered.

Remark	Delta 1			Delta 2	On Time/Period	20 log(1/Duty Cycle)
Mode	ON	Numbers	On Time (B)	Period (ON+OFF)	Duty Cycle	Duty Factor
wode	(ms)	(ON)	(ms)	(ms)	(%)	(dB)
433.92 MHz	0.220	1	0.220	0.744	29.57%	-10.58



2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Glide Wind Sensor
Model Name	TX145W, TXxxxx, TXxxxx-xxx, TXxxxxx, TXxxxxx-xxx, TXxxxx-xx, TXxxx-xx, TXxxxx-xx, TXxxxx-xx, TXxxxx-xx, TXxxx-xx, TXxxxx-xx, TXxxxxx, TXxxxx, TXxxxxx, TXxxxxx, TXxxxxx, TXxxxxx, TXxxxx, TXxxxxx, TXxxxxx, TXxxxxx, TXxxxxx, TXxxxxx, TXxxxxx, TXxxxxx, TXxxxxx, TXxxxxx, TXxxxx, TXxxxxx, TXxxxxx, TXxxxxx, TXxxxxx, TXxxxx, TXxxxx, TXxxxx, TXxxxx, TXxxx, TXxxx, TXxxxx, TXxxx, TXxx, TXxxx, TXxxx, TXxxx, TXxx, TXxx, TXxxx, TXxx, TXxx, TXxxx, TXxx, TXxx, TXxxx, TXxx, TXxxx, TXxx, TXxxx, T
Brand Name	LA CROSSE TECHNOLOGY
Model Difference	The difference for different version are the product shell color , and packaging upgrade version number, when upgrade a version the number progressed to next number. The hardware is the same. The software upgrade don't influence the RF characteristic. All the models are electrically identical.
Power Source	Supplied from battery.
Power Rating	DC 4.5V
Products Covered	N/A
Frequency Range	433.92 MHz
Field Strength	62.18 dBuV/m (Average)
Test Model	TX145W
Sample Status	Engineering Sample
EUT Modification(s)	N/A

NOTE:

(1) The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

(2) Channel List:

Channel	Frequency (MHz)
01	433.92

(3) Table for Filed Antenna:

An	. Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	Fuzhou SINOSTR Electronic Co., Ltd	TX069	Coil	N/A	0

(4) The above Antenna information are derived from the antenna data sheet provided by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.



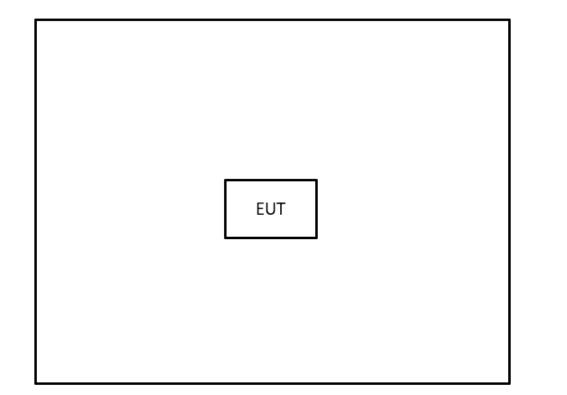
2.2 TEST MODES

Test Items	Test mode	Channel	Note
Transmitter Radiated Emissions (below 1GHz)	TX / 433.92 MHz	01	-
Transmitter Radiated Emissions (above 1GHz)	TX / 433.92 MHz	01	-
20 dB Bandwidth	TX / 433.92 MHz	01	-
Timing Testing	TX / 433.92 MHz	01	-



2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.



2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No. Series No. Remarks		Remarks	
-	-	-	-	-	-	
Item	Shielded	Ferrite Core	Length	Cable Type	Remarks	



3 RADIATED EMISSIONS TEST

3.1 LIMIT

LIMITS OF FIELD STRENGTH OF FUNDAMENTAL MEASUREMENT

Frequency Band (MHz)	Field strength of fundamental Limit(uV/m) at 3m		
40.66-40.70	2250		
70-130	1250		
130-174	(**)1250 To 3750		
174-260	3750		
260-470	(**)3750 To 12500		
Above 470	12500		

**1. Linear interpolations, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

(1) For the band 130 - 174 MHz, μ V/m at 3 meters = 22.72727×(operating frequency, MHz) - 2454.545.

(2) For the band 260 - 470 MHz, μV/m at 3 meters =16.6667×(operating frequency, MHz) - 2833.3333. So the field strength of emission limits has been calculated in below table.

Carrier Frequency (MHz)	Fundamental EmissionsLimit(dBuV/m) at 3m		
433.92 MHz	72.87 (Average)		
433.92 MHz	92.87 (Peak)		

MEASURING INSTRUMENTS AND SETTING (FIELD STRENGTH OF FUNDAMENTAL EMISSIONS)

Receiver Parameter	Setting	
Attenuation	Auto	
Center Frequency	Fundamental Frequency	
RBW	120 kHz	
Detector	Peak / Average	

RADIATED EMISSIONS MEASUREMENT

Devices complying with 47 CFR FCC part 15 subpart C, section 15.231(e). The field strength of emissions from intentional radiators at 3 meters operated under this Section shall not exceed the following:

Frequency Band (MHz)	Field strength of spurious emissions (uV/m) at 3m		
40.66-40.70	225		
70-130	125		
130-174	(**)125 to 375		
174-260	375		
260-470	(**)375 to 1250		
Above 470	1250		

**1. Linear interpolations, the formulas for calculating the maximum permitted fundamental field strengths are as follows:

(1) For the band 130 - 174 MHz, μ V/m at 3 meters = 22.72727×(operating frequency, MHz) - 2454.545.

(2) For the band 260 - 470 MHz, μ V/m at 3 meters = 16.6667×(operating frequency, MHz) - 2833.3333.

(3) The maximum permitted unwanted emissions level is 20 dB below the maximum

permitted fundamental level. In addition field strength of any emissions which appear inside of the restriction band shall not exceed the general radiated emissions limits in

Section 15.209(a).



Frequencies (MHz)	Field Strength (micorvolts/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

Receiver Parameter	Setting	
Attenuation	Auto	
Start ~ Stop Frequency	9 kHz~90 kHz for PK/AVG detector	
Start ~ Stop Frequency	90 kHz~110 kHz for QP detector	
Start ~ Stop Frequency	110 kHz~490 kHz for PK/AVG detector	
Start ~ Stop Frequency	490 kHz~30 MHz for QP detector	
Start ~ Stop Frequency	30 MHz~1000MHz for QP detector	

Spectrum Parameter	Setting		
Attenuation	Auto		
Start Frequency	1000 MHz		
Stop Frequency	10th carrier harmonic		
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, AV Mode with Dwell time		

3.2 TEST PROCEDURE

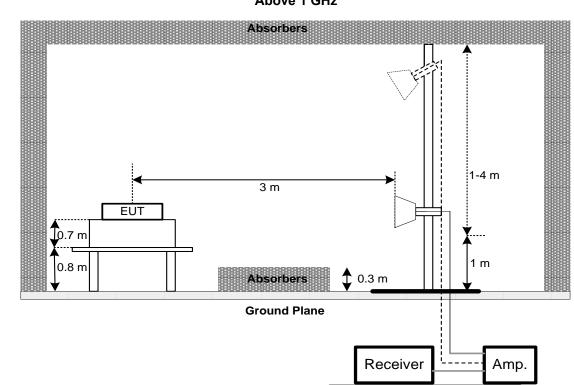
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1 GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1 GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8 m or 1.5 m, the height of the test antenna shall vary between 1 m to 4 m. 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 find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.(below 1 GHz)
- All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1 GHz)
- i. For the actual test configuration, please refer to the related Item –EUT Test Photos.



3.3 **DEVIATION FROM TEST STANDARD** No deviation. 3.4 **TEST SETUP** 9 kHz to 30 MHz **RX Antenna** EUT 1m 1 m 80cm Metal Full Soldered Ground Plane Spectrum Analyzer /Receiver 30 MHz to 1 GHz Absorbers 1-4 m 3 m EUT 1 m 0.8 m **Ground Plane** Receiver Amp.







3.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

3.6 TEST RESULT – BELOW 30 MHZ

There were no emissions found below 30 MHz within 20 dB of the limit.

3.7 TEST RESULT – 30 MHZ TO 1 GHZ

Please refer to the APPENDIX A

3.8 TEST RESULT - ABOVE 1 GHZ

Please refer to the APPENDIX B

NOTE:

(1) No limit: This is fundamental signal, the judgment is not applicable. For fundamental signal judgment was referred to Peak output test.





4 20 dB SPECTRUM BANDWIDTH MEASUREMENT

4.1 LIMIT

The bandwidth of the emissions shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. So the emission bandwidth limits have been calcuated in below table.

Fundamental Frequency	20 dB Bandwidth Limits (MHz)
433.92 MHz	1.0848

4.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 5 in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	> 20dB Bandwidth
RB	10 kHz
VB	10 kHz
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

4.3 TEST PROCEDURE

a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.

- b. The resolution bandwidth of 10 kHz and the video bandwidth of 10 kHz were used.
- c. Measured the spectrum width with power higher than 20 dB below carrier.

4.4 DEVIATION FROM TEST STANDARD

No deviation.

5.4 TEST SETUP



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT

Please refer to the APPENDIX C



5 TIMING TESTING

5.1 LIMIT

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

5.2 MEASURING INSTRUMENTS AND SETTING

Please refer to section 6 in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameters	Setting
Attenuation	Auto
Span Frequency	Zero Span
RB	1 MHz
VB	1 MHz
Detector	Peak
Trace	Max Hold
Sweep Time	100 seconds

5.3 TEST PROCEDURE

- a. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- b. The resolution bandwidth of 1 MHz and the video bandwidth of 1 MHz were used.

5.4 DEVIATION FROM TEST STANDARD

No deviation.

5.5 TEST SETUP



5.6 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.7 TEST RESULT

Please refer to the APPENDIX D



6 LIST OF MEASURING EQUIPMENTS

Radiated Emissions						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC330N	980850	2022/9/19	2023/9/18
2	Preamplifier	EMCI	EMC118A45SE	980819	2023/3/7	2024/3/5
3	Preamplifier	EMCI	EMC001340	980579	2022/9/30	2023/9/29
4	Test Cable	EMCI	EMC104-SM-SM- 1000	220319	2023/3/14	2024/3/13
5	Test Cable	EMCI	EMC104-SM-SM- 3000	220322	2023/3/14	2024/3/13
6	Test Cable	EMCI	EMC104-SM-SM- 7000	220324	2023/3/14	2024/3/13
7	EXA Signal Analyzer	keysight	N9020B	MY57120120	2023/2/24	2024/2/23
8	Loop Ant	Electro-Metrics	EMCI-LPA600	291	2022/9/19	2023/9/18
9	Horn Antenna	RFSPIN	DRH18-E	211202A18EN	2022/5/18	2023/5/17
10	Log-bicon Antenna	Schwarzbeck	VULB9168	1369	2022/5/20	2023/5/19
11	6dB Attenuator	EMCI	EMCI-N-6-06	AT-06001	2022/5/20	2023/5/19
12	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

		20	dB Spectrum Ban	dwidth		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2023/3/27	2024/3/25

			Timing Testing	3		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Spectrum Analyzer	R&S	FSP 40	100129	2023/3/27	2024/3/25

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.



7 EUT TEST PHOTO

Please refer to document Appendix No.: TP-2304C040-FCCP-1 (APPENDIX-TEST PHOTOS).

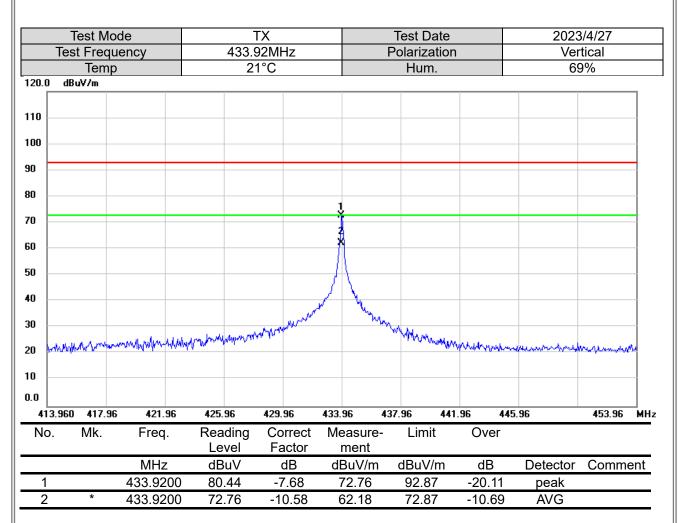
8 EUT PHOTOS

Please refer to document Appendix No.: EP-2304C040-1 (APPENDIX-EUT PHOTOS).



APPENDIX A RADIATED EMISSIONS - 30 MHZ TO 1 GHZ

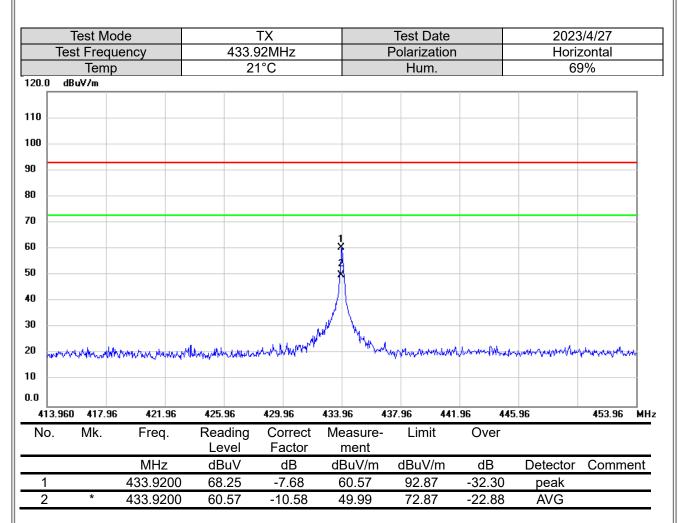
3โL



REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

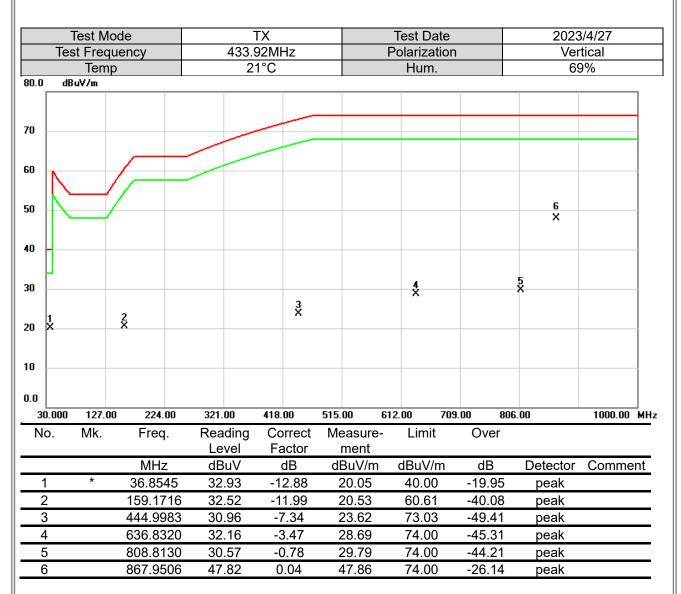
3โL



REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.

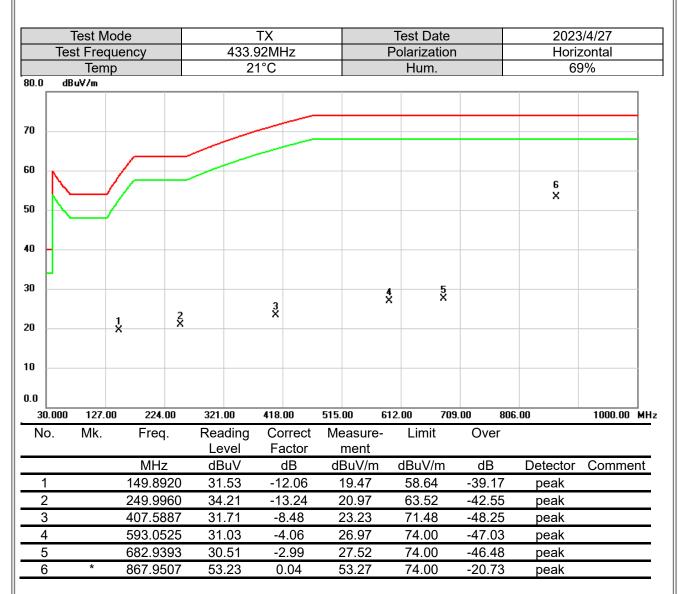




REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.





REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.



APPENDIX B RADIATED EMISSIONS - ABOVE 1000 MHZ

BIL

Test Mode Test Frequency					ТΧ					est Dat	2023/4/27				
				433.92MHz				Polarization					Vertical		
Temp				2	24°C					Hum.			58%		
20.0 dB	ıV/m														_
10															1
00															
0															1
o															
0															
0	1 X														
0	2														
	x														
0															1
D															
															1
0															
.0															
1000.000) 1400.0	0 1800.0	0 220	0.00	2600.	00	3000	.00	340	0.00	3800.00	420	0.00	5000.00	M
No.	Mk.	Freq.		ading		rect		easure	-	Limit	C	ver			
				evel		ctor		ment					<u> </u>		
4		MHz		BuV		B		BuV/m		dBuV/m		dB	Detector	Comme	ent
1	*	1302.00		.85		00		6.85		74.00		7.15	peak		
2	^	1302.00	0 56	6.85	-10	.58		6.27		54.00	- /	7.73	AVG		

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.

BIL

Test Mode Test Frequency			_	400	TX	<u> </u>				est Da	2023/4/27				
			_		92MF	IZ		Polarization					Horizontal		
Temp 120.0 dBuV/m				2	4°C					Hum.		58%			
2U.U dB	u¥/m									1					-
10															1
00															
)															1
)															
.				_											-
)	1														1
ı	1 X														
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0	1400.0	0 1800.0	0 22	00.00	2600	00	3000	00	340	0.00	3800.0	0 420	00.00	5000.00	_
No.	Mk.					rrect		easure		Limit		Over	00.00	5000.00	mi
INO.	WK.	Freq.		ading evel		ctor		easure ment	-			Over			
		MHz		BuV		B		BuV/m	(dBuV/n	n	dB	Detector	Comme	ent
1		1302.00		9.90	-8	.00		61.90		74.00		12.10	peak		
2	*	1302.00	06	1.90	-1(0.58	Ę	51.32		54.00		-2.68	AVG		

REMARKS:

(1) Measurement Value = Reading Level + Correct Factor.(2) Margin Level = Measurement Value - Limit Value.



APPENDIX C 20 dB SPECTRUM BANDWIDTH







APPENDIX D TIMING TESTING



