ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

EUT Description	Fusion Domain
Applicant:	Foxtron Vehicle Technologies Co., Ltd. 6F, No. 26, Baogao Rd., Xindian Dist., New Taipei City 231029, Taiwan (R.O.C.)
Manufacturer:	FUCHI ELECTRONICS CO., LTD. No. 355, Sec. 2, Nankan Rd., Luzhu Dist., Taoyuan City 338 , Taiwan (R.O.C.)
Brand Name:	Foxtron
Model No.:	Fusion Domain
Family Model No.:	Fusion Domain D31H NA Fusion Domain D31H AWD NA Fusion Domain D31F AWD Fusion Domain D21 TWN Fusion Domain D21 TWN AWD Fusion Domain P71 Fusion Domain P71 AWD
Model Difference:	For marketing purposes only
Report Number:	TERF2508002515ER
FCC ID	2BOWH-FDGEN2
Date of EUT Received:	August 6, 2025
Date of Test:	August 6, 2025～September 4, 2025
Issue Date:	October 7, 2025

Approved By Marcus Tseng

Marcus Tseng

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 and the energy emitted by the sample EUT comply with FCC rule part §15.519.

The results of this report relate only to the sample identified in this report.

Revision History					
Report Number	**Revision**	**Description**	**Issue Date**	**Revised By**	**Remark**
TERF2508002515ER	00	Added UWB channel 5	Sep. 12, 2025	Candice Li	
TERF2508002515ER	01	Modify the frequency in the table of Section 7.5.	Oct. 7, 2025	Candice Li	*

Note:

1、 The remark "*" indicates modification of the report upon requests from certification body.

2、 Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received.
And are assessed as electrically identical in RF characteristics, therefore, no further assessment required for the variant(s).

Table of Contents

1 GENERAL INFORMATION

1.1 Product Description

EUT Description	Fusion Domain
Brand Name:	Foxtron
Model No.:	Fusion Domain
Family Model No.:	Fusion Domain D31H NA Fusion Domain D31H AWD NA Fusion Domain D31F AWD Fusion Domain D21 TWN Fusion Domain D21 TWN AWD Fusion Domain P71 Fusion Domain P71 AWD
Model Difference:	For marketing purposes only
Hardware Version:	XD
Firmware Version:	V0.1.2
EUT Series No.:	TE_SP_20250810344、TE_SP_20250810343
Power Supply:	12 Vdc
Test Software (Name/Version)	Tera Term Pro version 2.3

1.2 RF Specification

Radio Technology:	Ultra WideBand	
Operating Frequency (MHz):	6240 -6739.2	
Channel number:	1	
Modulation type:	BPM_BPSK	
Transmit Power:	-22.51 dBm@8MHz, -6.59 dBm@50MHz	
Antenna Designation:	Type	Monopole
	Peak Gain	4.05 dBi

Note:

1. The antenna information is provided by the applicant, and the laboratory shall not be held liable for the accuracy, completeness, or reliability of any applicant-supplied data.
2. The antenna complies with requirement and no consideration of replacement. Please see EUT photo for details.

1.3 EUT Availability and The Worst Test Modes

The EUT has been tested under operating condition.
Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Test frequency 6489.6MHz is chosen for full testing.

The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

TRANSMIT RADIATED EMISSION TEST (BELOW 1 GHz)			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
UWB	5	5	BPM-BPSK
TRANSMIT RADIATED EMISSION TEST (ABOVE 1 GHz)			
MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION
UWB	5	5	BPM-BPSK

2 SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§15.207(a)	AC Power Line Conducted Emission	N/A
§15.519(b)	UWB bandwidth	Compliant
§15.209 §15.519(c) (d)	Radiated Emission below 960MHz and above 960MHz. Radiated Emissions in GPS bands. Average Emissions of UWB transmissions in a 1MHz Band-width	Compliant
§15.519(e)	Peak level of the Emission	Compliant
§15.519(a) (1)	Transmitter Timeout	Compliant

2.1 Test Methodology of Applied Standards

FCC Part 15, Subpart F §15.519
KDB 393764 D01 UWB FAQ v02
ANSI C63.10:2020.

2.2 Measurement Uncertainty

Test Items	Uncertainty		
AC Power Line Conducted Emission	+/-	1.54	dB
UWB Bandwidth	+/-	1.38	Hz
Temperature	+/-	0.6	°C
Humidity	+/-	3	%
DC / AC Power Source	+/-	1	%

Radiated Spurious Emission Measurement Uncertainty				
Polarization: Vertical	**+/-**	**1.89**	**dB**	9kHz~30MHz
	+/-	**4.1**	**dB**	30MHz - 1000MHz
	+/-	**3.37**	**dB**	1GHz - 18GHz
	+/-	**3.83**	**dB**	18GHz - 40GHz
Polarization: Horizontal	**+/-**	**1.89**	**dB**	9kHz~30MHz
	+/-	**4.1**	**dB**	30MHz - 1000MHz
	+/-	**3.37**	**dB**	1GHz - 18GHz
	+/-	**3.83**	**dB**	18GHz - 40GHz
Radiated Spurious Emission	**+/-**	**2**	**dB**	33GHz-50GHz
	+/-	**1.59**	**dB**	50GHz-60GHz
	+/-	**1.71**	**dB**	60GHz-90GHz
	+/-	**1.64**	**dB**	90GHz-140GHz
	+/-	**3.84**	**dB**	140GHz-220GHz

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

2.3 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation Number / Registration Number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027 / 891563	TW3702
		SAC 2		
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction C	TW0028 / 200037	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		

Note: The test site name is noted on the equipment list to indicate where the measurements were conducted.

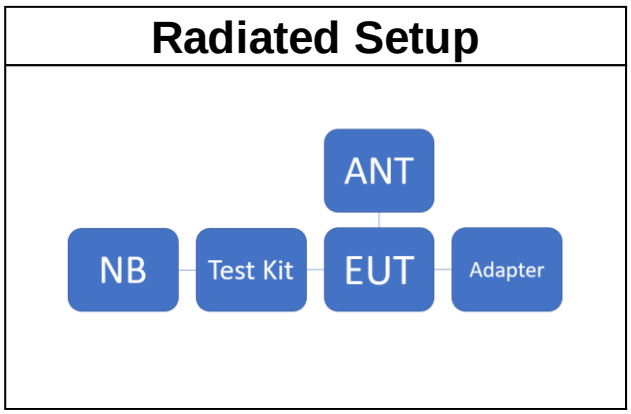
Temperature:	20-5~24.9	°C	Relative Humidity:	60~68	%
Test site	SAC 1		Test Start:	08/20/2025	
Test Engineer:	WJ Lin		Test Done:	09/04/2025	

3 CONTROL UNIT(S) AND PERIPHERAL(S)

3.1 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

3.2 Diagram



3.3 List

N/A

4 TEST INSTRUMENT

4.1 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL. (mm/dd/yyyy)	CAL DUE. (mm/dd/yyyy)
Bi-log Antenna	SCHWARZBECK	VULB9168	1208	07/22/2025	07/21/2026
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	12/09/2024	12/08/2025
Coaxial Cable	EMCI	EMC104-SM-SM-8000+EMC106-SM-SM-7600	RX Cable 9K-18G(160125+150817)	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	RX Cable 18G-40G MY2630/2+805062/2	07/14/2025	07/13/2026
Coaxial Cables	Huber Suhner	SUCOFLEX 102	TX Cable 25M-40G 805068/2	07/14/2025	07/13/2026
EMI Test Receiver	R&S	ESR 7	102525	02/08/2025	02/07/2026
EXA Spectrum Analyzer	KEYSIGHT	N9010B	MY60242081	10/23/2024	10/22/2025
Horn Antenna	RF SPIN	DRH0844	LE2D05A0844	08/07/2025	08/06/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/20/2025	05/19/2026
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	01/09/2025	01/08/2026
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/20/2024	12/19/2025
Loop Antenna	COM-POWER	AL-130R	10160104	12/19/2024	12/18/2025
Network Analyzer	Anritsu	MS4644A	1216312	12/25/2024	12/24/2025
Pre-Amplifier	EMCI	EMC118A45SEE	980933	07/14/2025	07/13/2026
Pre-Amplifier	EMCI	EMC184045SEE	980939	07/14/2025	07/13/2026
Pre-Amplifier	HP	8447D	2944A09469	07/14/2025	07/13/2026
Site Cal	SGS	SAC 1	N/A	07/14/2025	07/13/2026
Test Software	Audix	e3	Ver. 9.210616	N.C.R	N.C.R

NOTE: *N.C.R refers to Not Calibrated Required.*

5 REGULATORY REQUIREMENTS

5.1 Emission Bandwidth

The UWB bandwidth of a device operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.
Ultra-wideband (UWB) transmitter. An intentional radiator that, at any point in time, has a fractional bandwidth equal to or greater than 0.20 or has a UWB bandwidth equal to or greater than 500 MHz, regardless of the fractional bandwidth

5.2 Unwanted Emission

The radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in § 15.209. The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

Frequency in MHz	EIRP in dBm
960–1610	−75.3
1610–1990	−63.3
1990–3100	−61.3
3100–10600	−41.3
Above 10600	−61.3

In addition to the radiated emission limits specified in the table below, UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz:

Frequency in MHz	EIRP in dBm
1164–1240	−85.3
1559–1610	−85.3

There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, f_M. That limit is 0 dBm EIRP. It is acceptable to employ a different resolution bandwidth, and a correspondingly different peak emission limit, following the procedures described in § 15.521.

5.3 Transmission Timeout

A UWB device operating under the provisions of this section shall transmit only when it is sending information to an associated receiver. The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.

The device is to transmit only when it is sending information to an associated receiver. The device shall cease transmission of information within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB device at least every 10 seconds or the UWB device shall cease transmitting any information other than periodic signals used for the establishment or re-establishment of a communication link with an associated receiver.

5.4 Antenna 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 shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

5.5 AC Power Line Conducted Emission

Frequency range within 150 kHz to 30 MHz shall not exceed the Limit table as below.

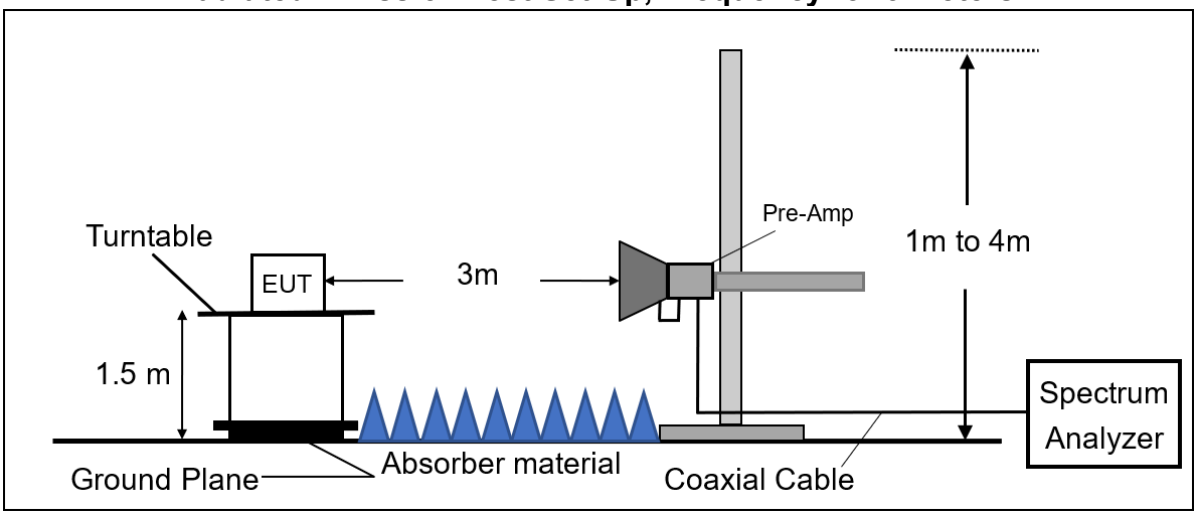
Frequency range MHz	Limits (dBuV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note
1.The lower limit shall apply at the transition frequencies
2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6 TEST CONFIGURATION

6.1 Emission Bandwidth

Radiated Emission Test Set-Up, Frequency for 3 meters.

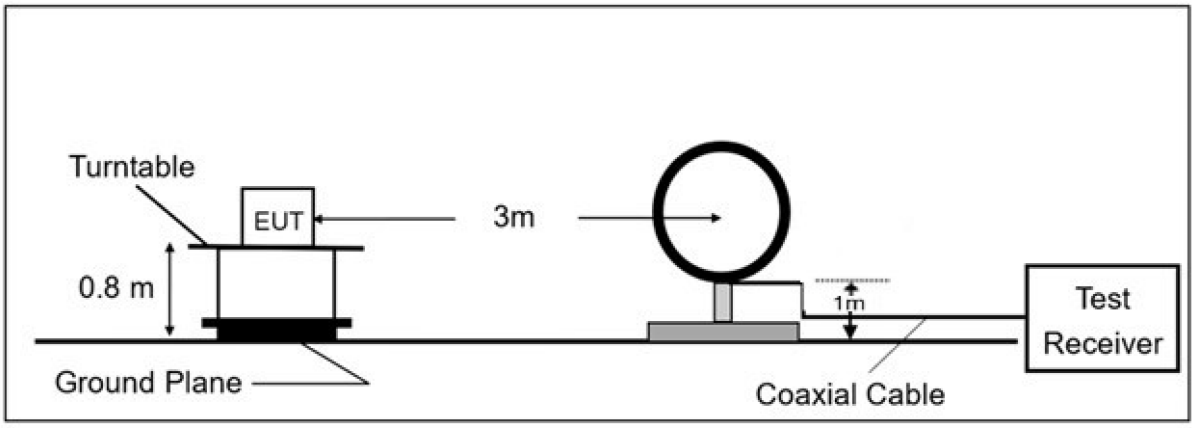


1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum. RBW = 1MHz, VBW = 3MHz, Span: 1GHz, Detector =peak, Sweep = Auto.
3. Record the max. Reading as observed from Spectrum.
4. Repeat above procedures until all test default channel measured was complete.

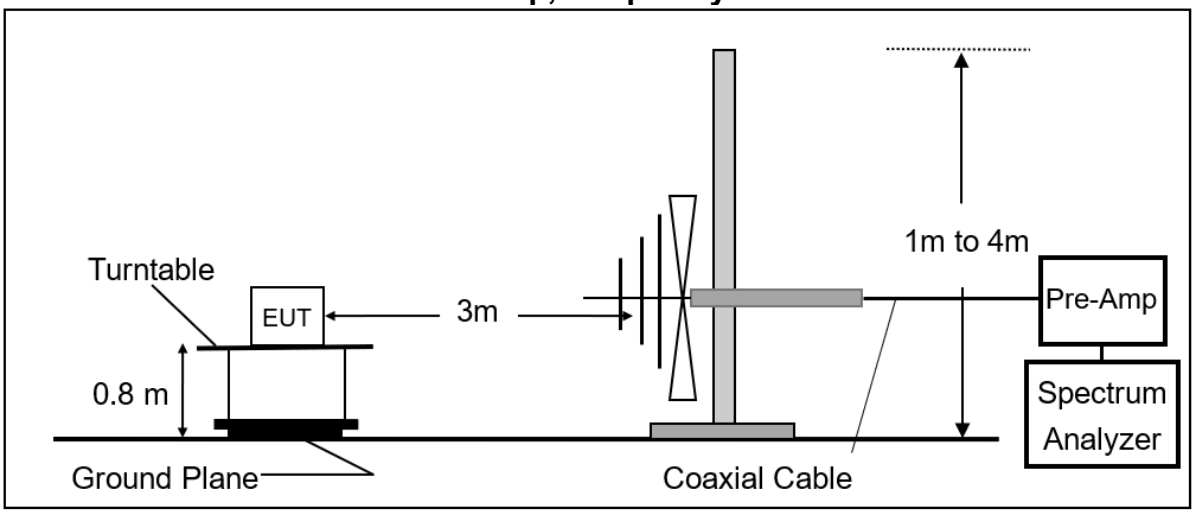
6.2 Unwanted Emission

Radiated emission below 30MHz is measured in a 9m*6m*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

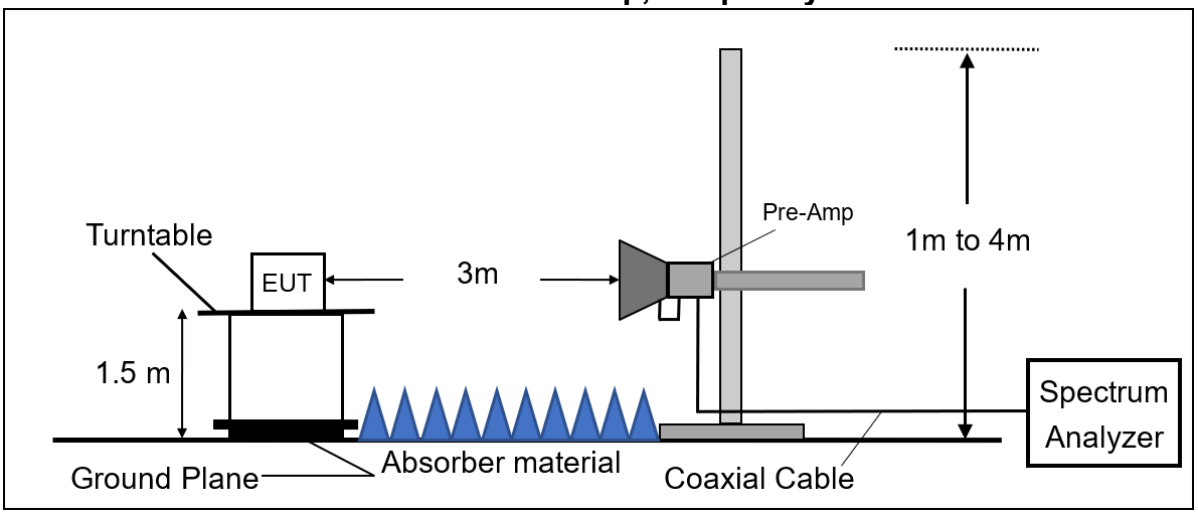
Radiated Emission Test Set-Up, Frequency Below 30MHz.

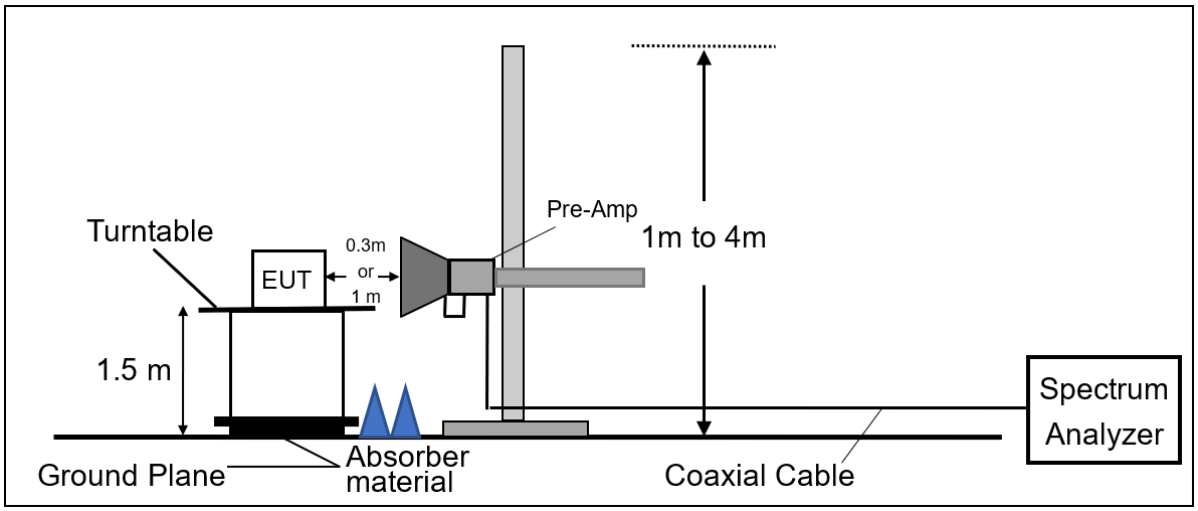


Radiated Emission Test Set-Up, Frequency From 30MHz to 1000MHz.



Radiated Emission Test Set-Up, Frequency Above 1GHz.





Measurement distances of 1 meter and 0.3 meter were selected to optimize dynamic range. Given the low FCC emission limits for UWB devices, some frequency ranges were measured at distances closer than these standard distances to maintain sufficient measurement accuracy.

1. The testing follows the Measurement Procedure of ANSI C63.10:2020.
2. The EUT was placed on a turn table with 0.8m for frequency< 1GHz and 1.5m for frequency> 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions for 100 kHz to 30MHz, 30 MHz to 960MHz, 960MHz to 1GHz radiated emissions.
5. EUT is set 1m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions for 1GHz to 10GHz, 10GHz to 18GHz, 18GHz to 40GHz radiated

emissions.

6. Set the spectrum analyzer as RBW=10 kHz and VBW=30 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency 150kHz~30MHz.
7. Set the spectrum analyzer as RBW=100 kHz and VBW=300 kHz for Peak Detector (PK) at frequency 30MHz~1GHz.
8. Use receiver mode as RBW=120 kHz for Quasi-peak (QP) at frequency 30MHz~1GHz.
9. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
10. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for RMS Detector for Average emissions of UWB transmission in a 1MHz bandwidth.
11. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
12. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
13. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
14. Sweep the frequency to determine spurious emission as seen on spectrum from span of, 960MHz to 1GHz, 1GHz to 10GHz, 10GHz to 18GHz, 18GHz to 40GHz.
15. Via Software, combine 4 spans of frequency range into one plot.
16. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
17. Repeat above procedures until all default test channel measured were complete.

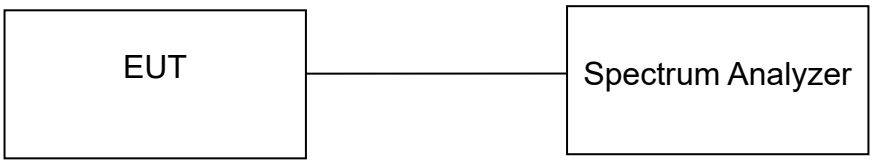
Note:

EIRP(dBm) = Spectrum + Factor - 95.2

Limit calculated as follows(RBW = 1MHz)

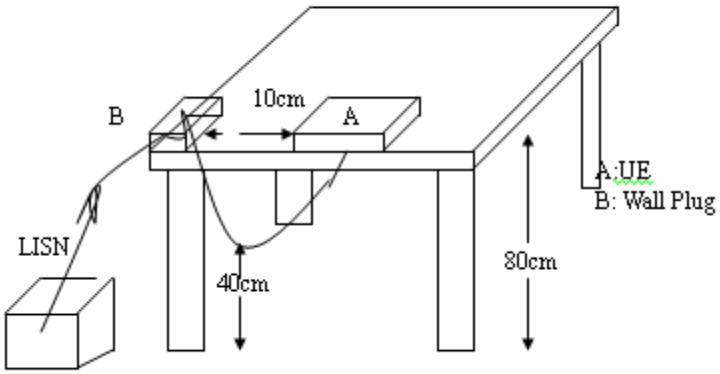
20 log (RBW/50) dBm = 20 log (1/50) dBm = -33.98 dBm
Peak E-Field (3m) E(dBuV/m) = P (dBm EIRP) + 95.2=-33.98 + 95.2 = 61.2 dBuV/m
The low frequency, which started from 9 kHz to 30MHz, was pre-scanned which results in 20dB lower than the limit and was not reported.

6.3 Transmission Timeout



The Transmitter Timeout was measured with a spectrum analyzer connected to the EUT antenna.

6.4 AC Power Line Conducted Emission



1. The conducted emission tests were performed at the designated test site using a setup in accordance with ANSI C63.10.
2. The EUT was placed on a non-conductive table that is 0.8 meters above the ground plane. Conducted emissions were measured in the frequency range from 0.15 MHz to 30 MHz using CISPR Quasi-Peak and Average detector modes. The two LISNs provided 50 μH / 50 ohm coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
3. The AC/DC power adaptor of the EUT was connected to the LISN. The EUT was positioned flush with the rear edge of the table, with a minimum 0.4-meter distance from the shielding wall.
4. The LISNs were connected to the power source and configured according to the test requirements.
5. The maximum emission levels were investigated for each mode of operation. The six highest emissions were further maximized to ensure compliance.
6. The above procedures were repeated for all power supply configurations of the EUT.

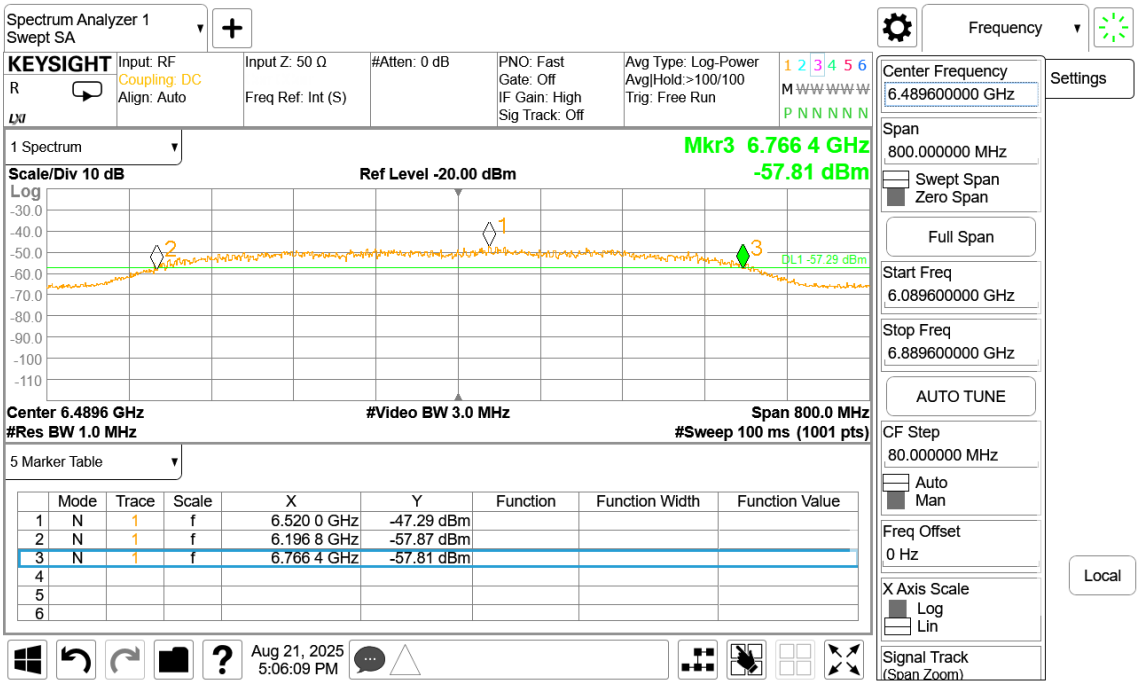
Level = Read Level + Factor

Factor = (LISN, ISN, or current probe)Factor + Cable Loss +Attenuator

7 TEST RESULTS

7.1 Emission Bandwidth

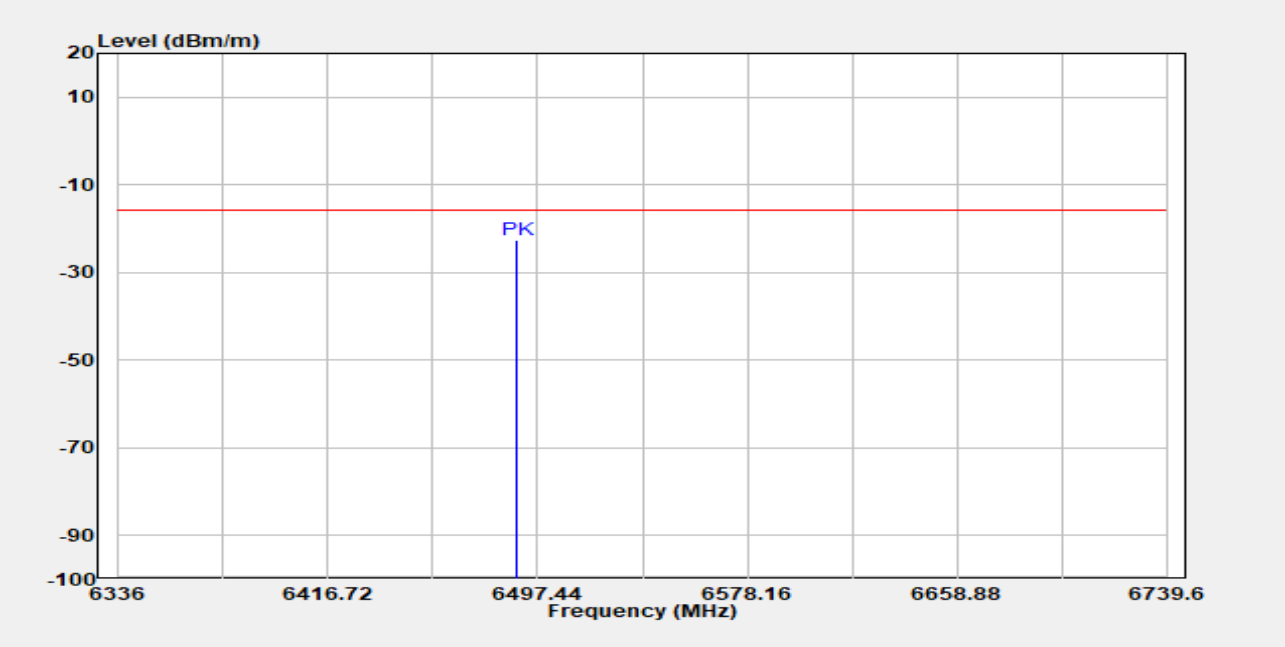
Channel	Center Frequency (MHz)	Mark point	Mark Frequency (MHz)	UWB Bandwidth (MHz)	Limit (MHz)
5	6489.6	fM(Peak)	6520	569.6	≧ 500
		fL(lower -10 dB)	6196.8		
		fH(upper -10 dB)	6766.4		



7.2 Unwanted Emission

Peak level of the Emission Measurement Result
EIRP Peak at 3 Meter

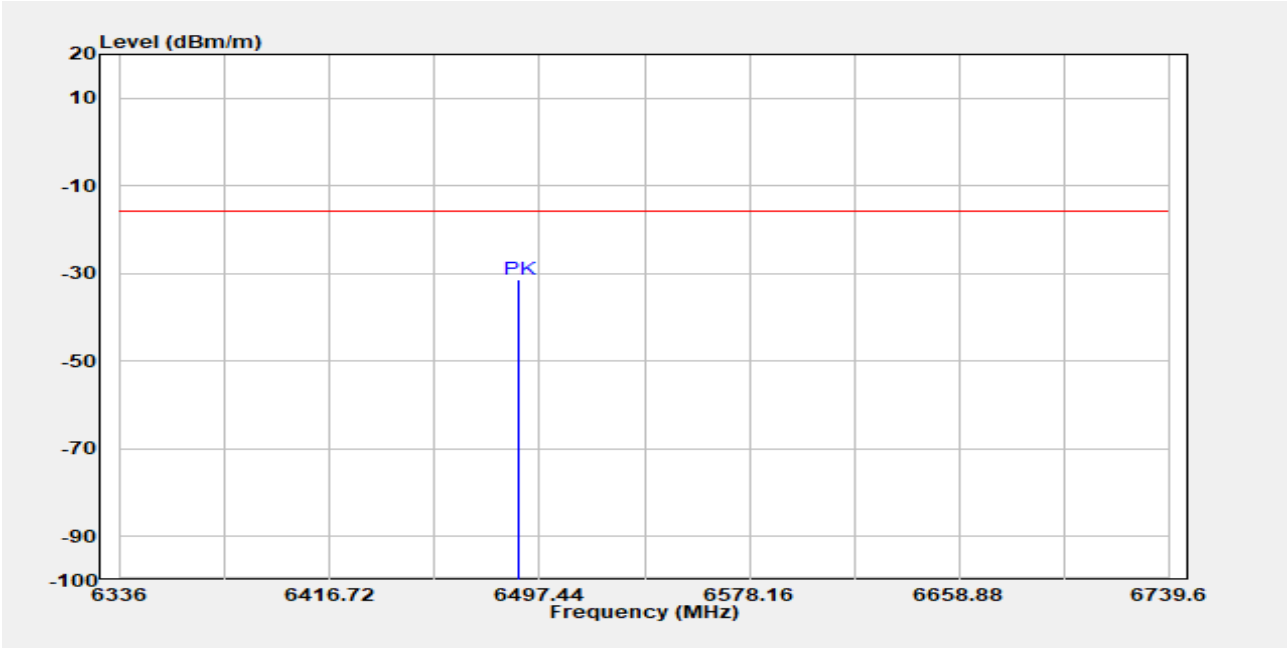
Report Number	:TERF2508002515ER	Test Site	:SAC 1
Operation Mode	:UWB	Test Date	:2025-09-02
Test Frequency	:6489.6 MHz	Temp./Humi.	:23.8℃/66%
Test Mode	:Main	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual EIRP	Limit	Margin
MHz	PK/QP/AV	dBm/8MHz	dB	dBm/8MHz	dBm/8MHz	dB
6489.600	Peak	-21.87	-0.63	-22.51	-15.92	-6.59

If RBW set be lower than 50 MHz Test Limit= 0 dBm+20 log (RBW/50) dBm

Report Number	:TERF2508002515ER	Test Site	:SAC 1
Operation Mode	:UWB	Test Date	:2025-09-02
Test Frequency	:6489.6 MHz	Temp./Humi.	:23.8℃/66%
Test Mode	:Main	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



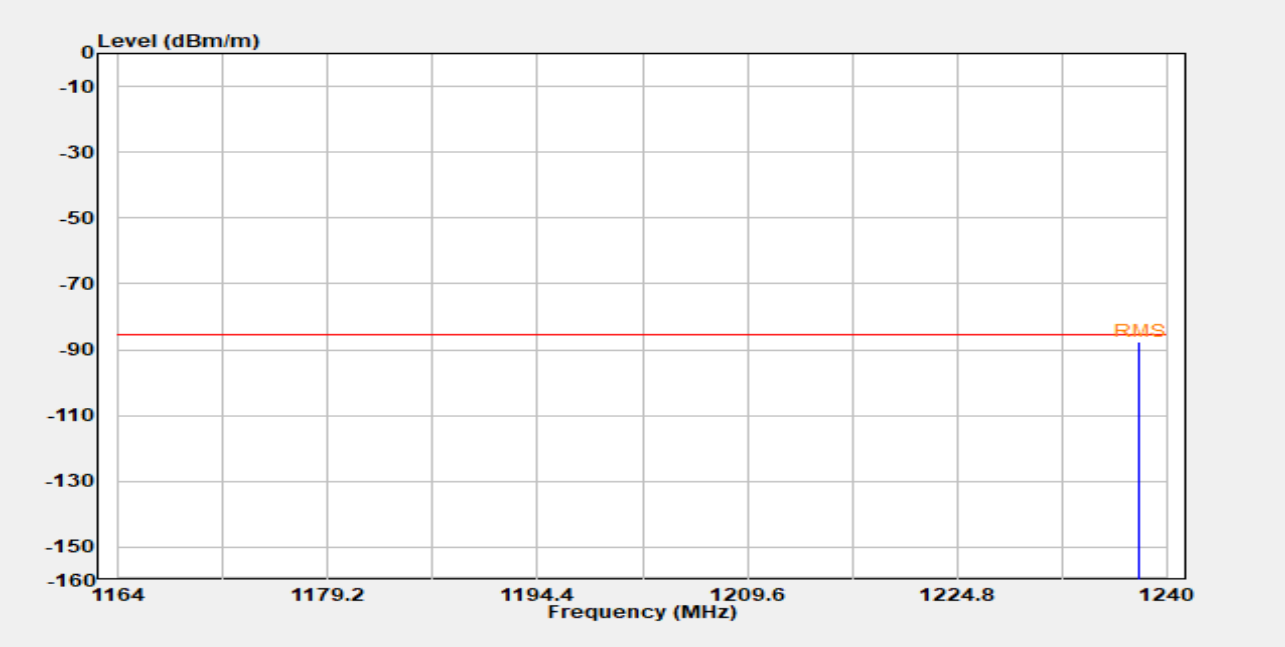
Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual EIRP	Limit	Margin
MHz	PK/QP/AV	dBm/8MHz	dB	dBm/8MHz	dBm/8MHz	dB
6489.600	Peak	-21.36	-9.90	-31.26	-15.92	-15.34

If RBW set be lower than 50 MHz Test Limit= 0 dBm+20 log (RBW/50) dBm

7.3 Radiated Emission in GPS bands Measurement Result

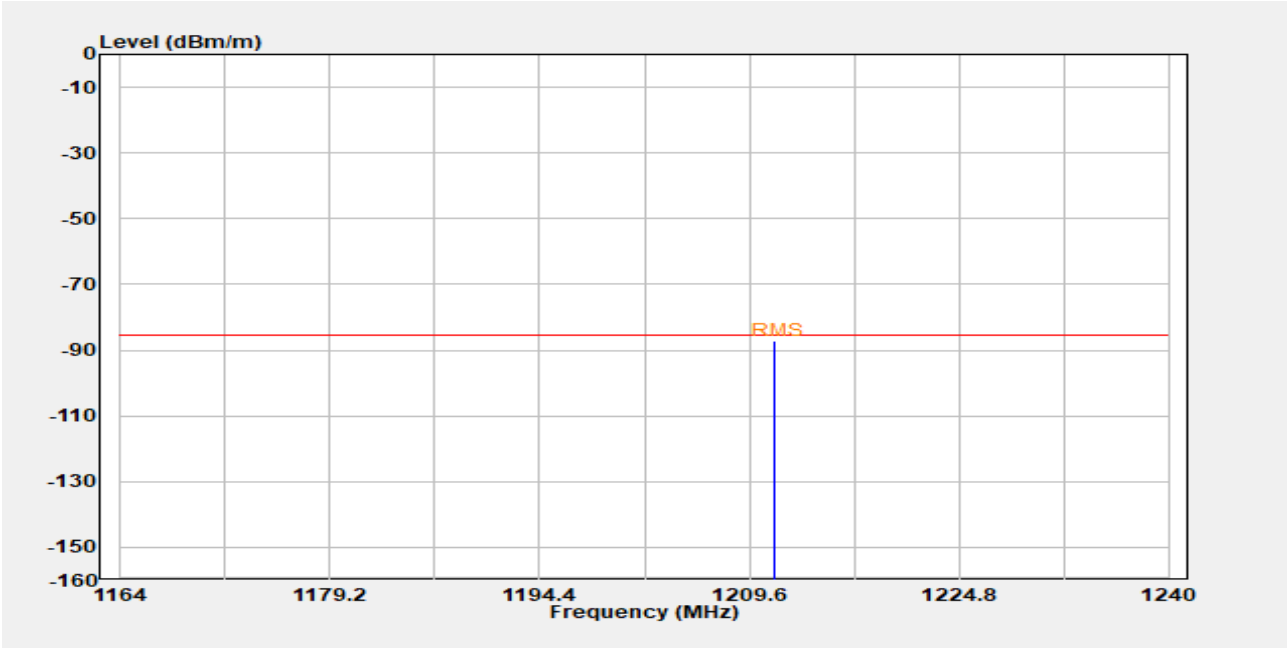
GPS receive band (1164-1240MHz) at 3 Meter

Report Number	:TERF2508002515ER	Test Site	:SAC 1
Operation Mode	:UWB	Test Date	:2025-09-02
Test Frequency	:6489.6 MHz	Temp./Humi.	:23.8℃/66%
Test Mode	:GPS	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
1237.948	RMS	-5.35	-82.04	-87.39	-85.30	-2.09

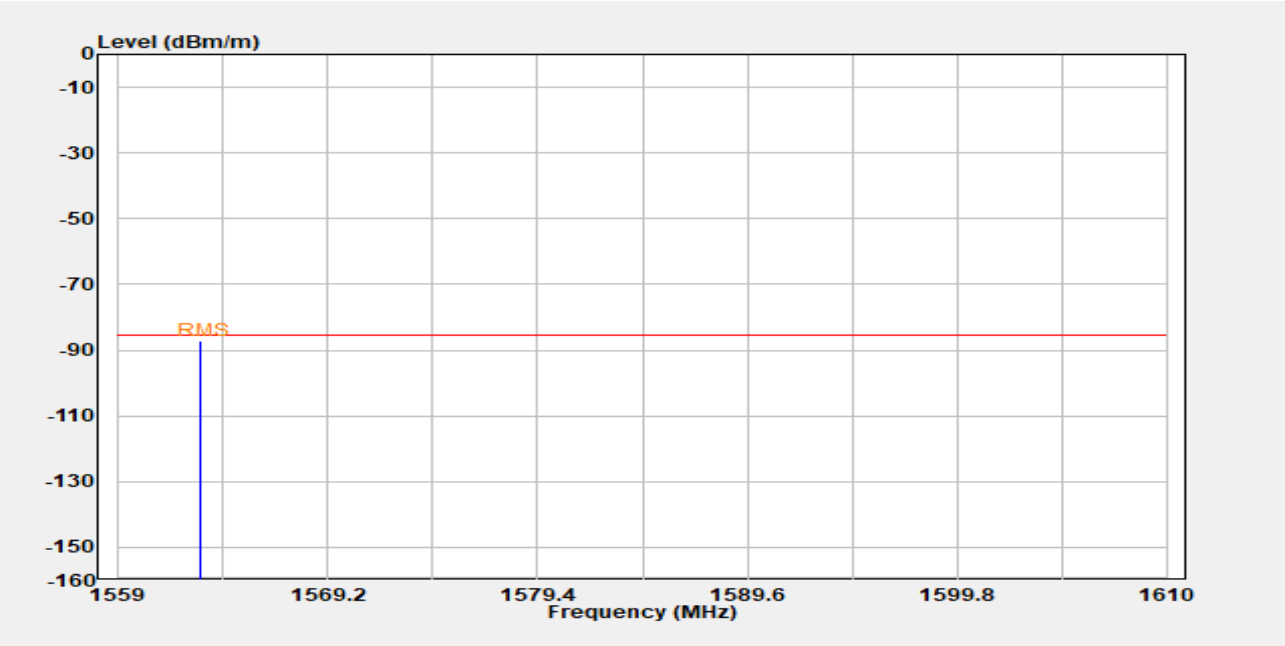
Report Number	:TERF2508002515ER	Test Site	:SAC 1
Operation Mode	:UWB	Test Date	:2025-09-02
Test Frequency	:6489.6 MHz	Temp./Humi.	:23.8℃/66%
Test Mode	:GPS	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
1211.424	RMS	-5.37	-81.80	-87.17	-85.30	-1.87

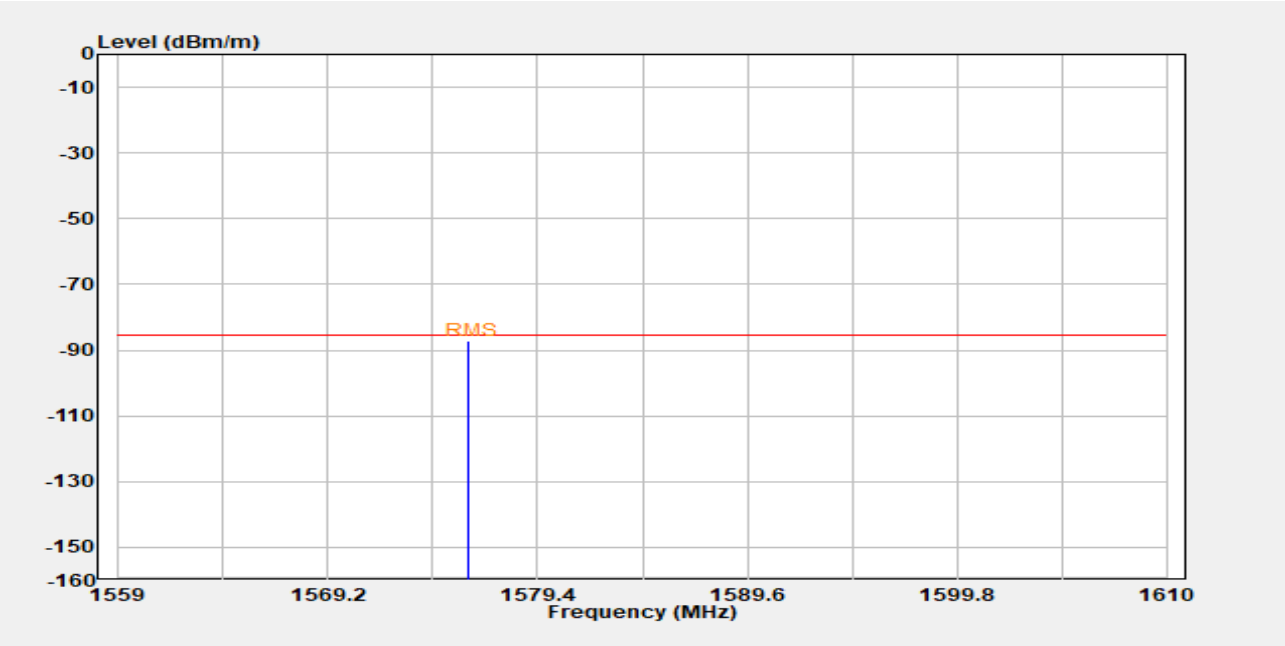
GPS receive band (1559-1610MHz) at 3 Meter

Report Number	:TERF2508002515ER	Test Site	:SAC 1
Operation Mode	:UWB	Test Date	:2025-09-02
Test Frequency	:6489.6 MHz	Temp./Humi.	:23.8℃/66%
Test Mode	:GPS	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
1563.029	RMS	-4.07	-83.28	-87.35	-85.30	-2.05

Report Number	:TERF2508002515ER	Test Site	:SAC 1
Operation Mode	:UWB	Test Date	:2025-09-02
Test Frequency	:6489.6 MHz	Temp./Humi.	:23.8℃/66%
Test Mode	:GPS	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin

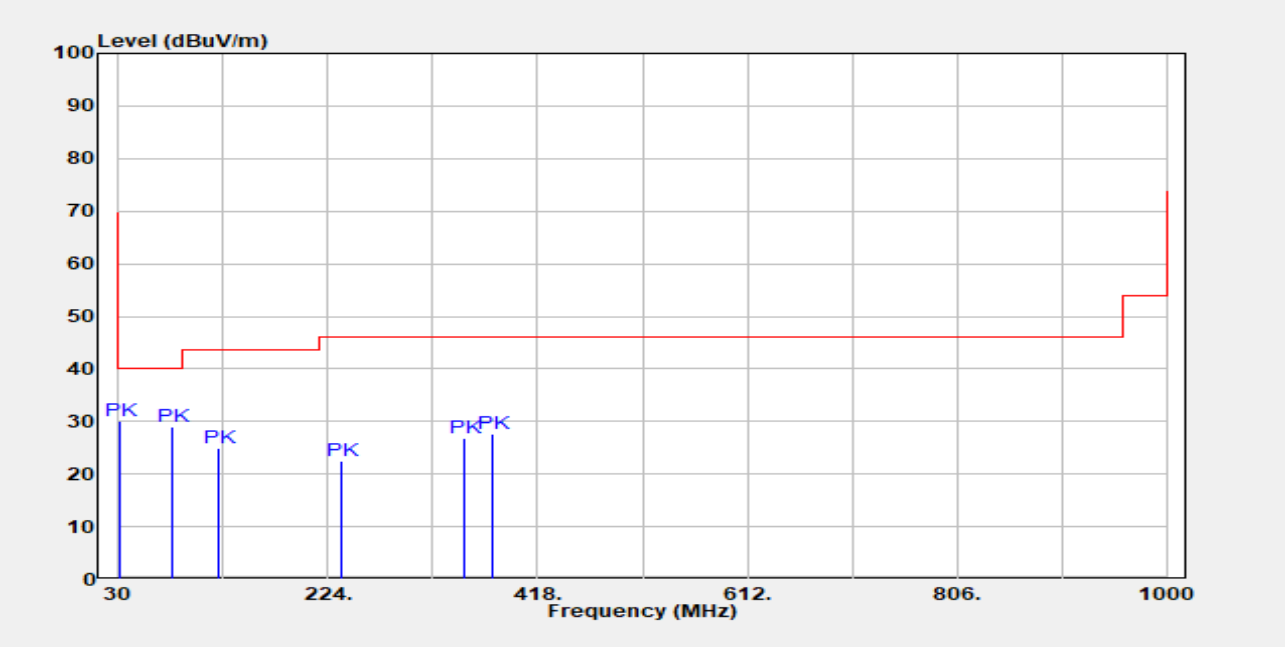


Freq.	Detector Mode	Spectrum Reading Level	Factor	Actual FS	Limit @3m	Margin
MHz	PK/QP/AV	dBµV	dB	dBµV/m	dBµV/m	dB
1576.034	RMS	-3.88	-83.31	-87.19	-85.30	-1.89

7.4 Radiated Spurious Emission Measurement Result (§15.209 & §15.519)

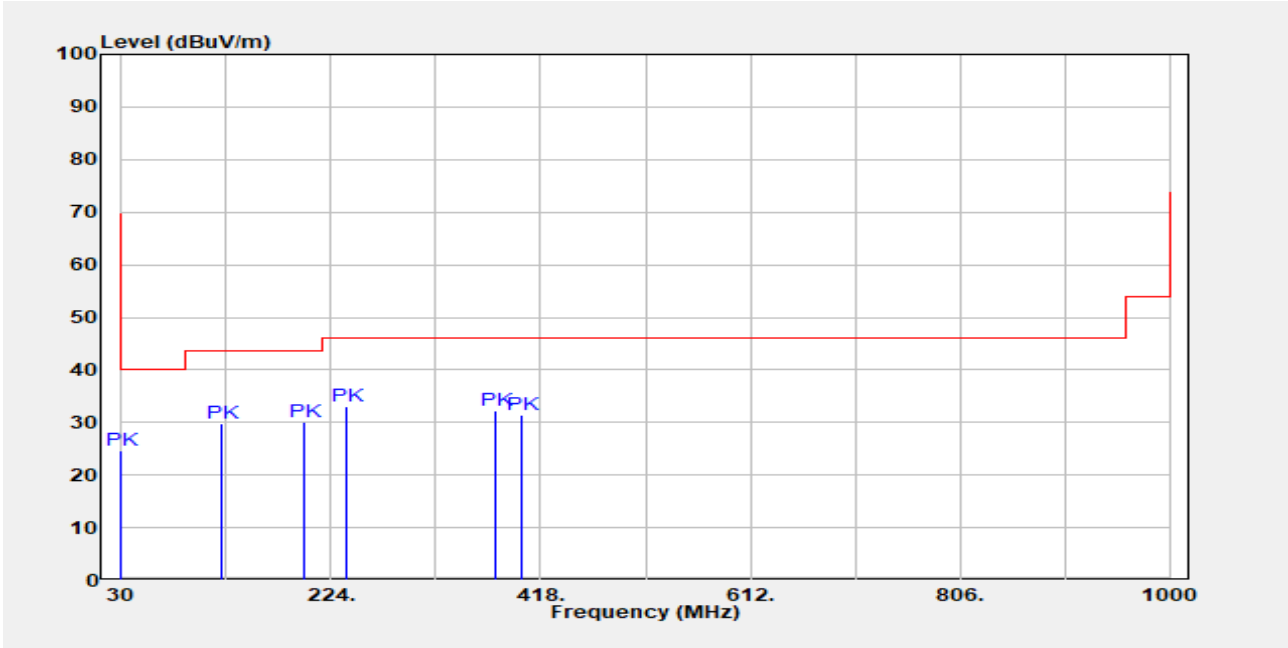
Below 1GHz at 3 Meter

Report Number	:TERF2508002515ER	Test Site	:SAC 1
Operation Mode	:UWB	Test Date	:2025-09-02
Test Frequency	:6489.6 MHz	Temp./Humi.	:23.8℃/66%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
31.940	Peak	35.93	-5.90	30.03	40.00	-9.97
79.470	Peak	45.63	-16.65	28.98	40.00	-11.02
123.120	Peak	36.11	-11.30	24.82	43.50	-18.68
235.640	Peak	34.08	-11.46	22.61	46.00	-23.39
350.100	Peak	34.53	-7.61	26.93	46.00	-19.07
375.320	Peak	34.83	-7.18	27.65	46.00	-18.35

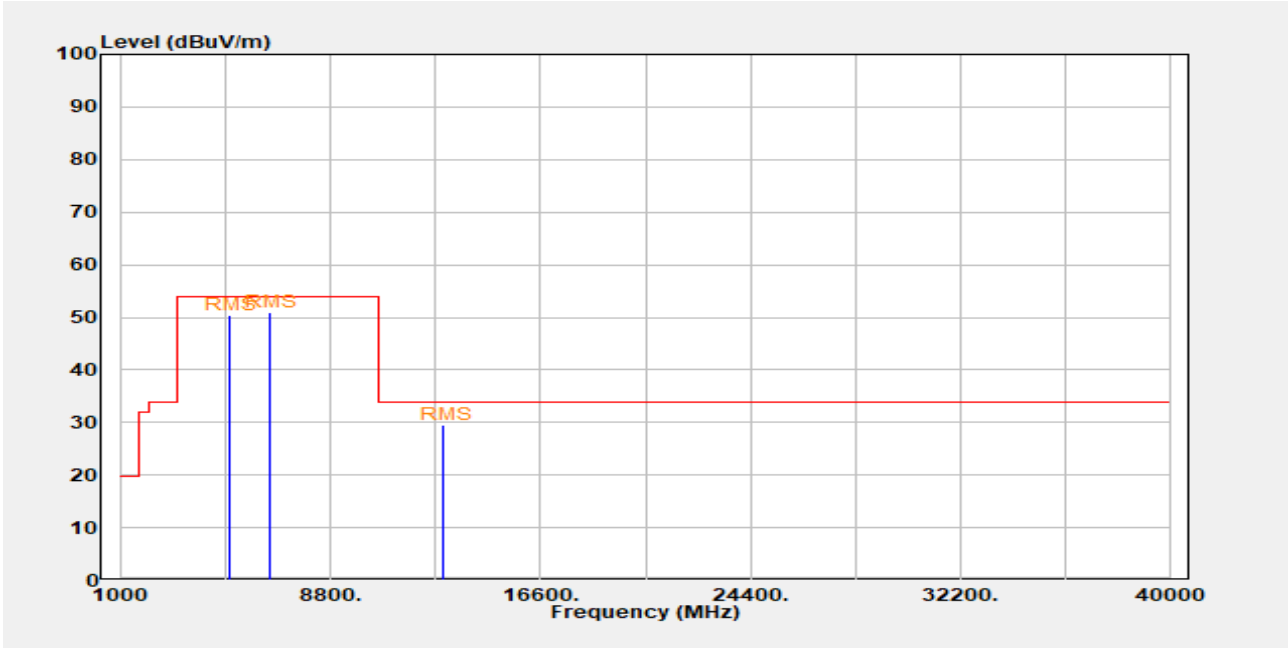
Report Number	:TERF2508002515ER	Test Site	:SAC 1
Operation Mode	:UWB	Test Date	:2025-09-02
Test Frequency	:6489.6 MHz	Temp./Humi.	:23.8℃/66%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
30.000	Peak	29.65	-4.95	24.70	40.00	-15.30
123.120	Peak	41.02	-11.30	29.73	43.50	-13.77
199.750	Peak	43.42	-13.31	30.11	43.50	-13.39
238.550	Peak	44.20	-11.09	33.10	46.00	-12.90
375.320	Peak	39.38	-7.18	32.19	46.00	-13.81
399.570	Peak	37.87	-6.35	31.52	46.00	-14.48

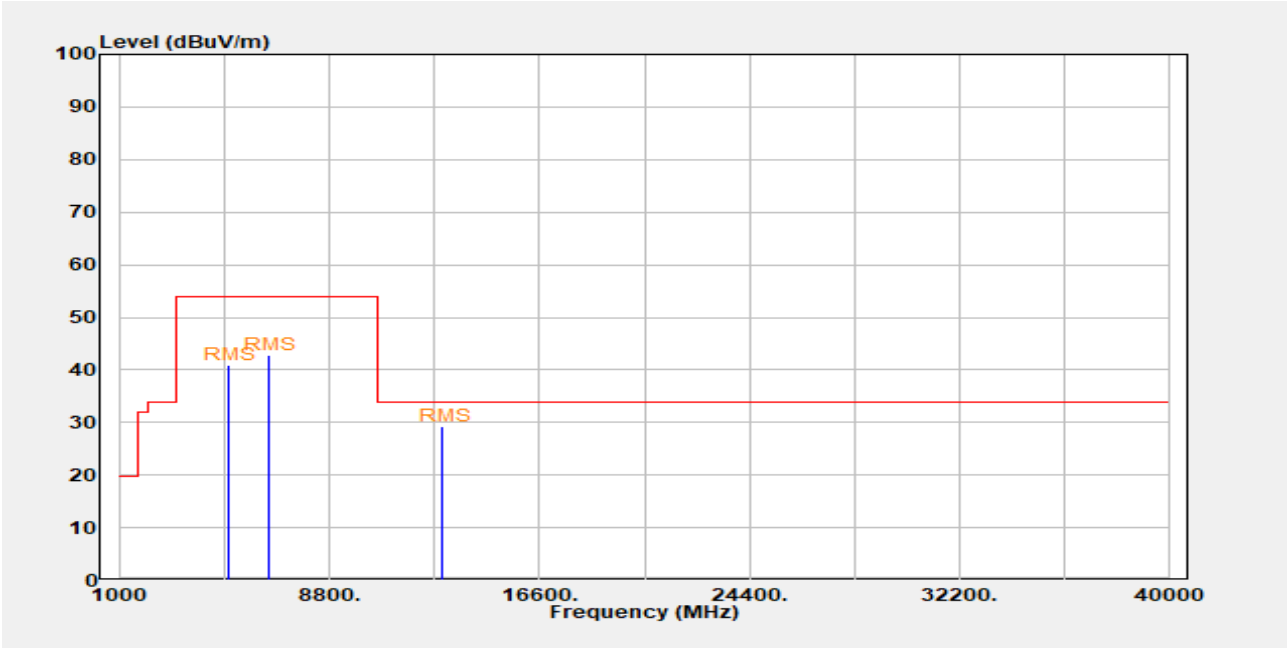
1GHz to 40 GHz

Report Number	:TERF2508002515ER	Test Site	:SAC 1
Operation Mode	:UWB	Test Date	:2025-09-02
Test Frequency	:6489.6 MHz	Temp./Humi.	:23.8℃/66%
Test Mode	:Tx	Antenna Pol.	:Vertical
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5000.000	RMS	45.90	4.58	50.48	53.90	-3.42
6489.600	RMS	43.14	7.86	51.00	53.90	-2.90
12979.200	RMS	17.89	11.62	29.50	33.90	-4.40

Report Number	:TERF2508002515ER	Test Site	:SAC 1
Operation Mode	:UWB	Test Date	:2025-09-02
Test Frequency	:6489.6 MHz	Temp./Humi.	:23.8℃/66%
Test Mode	:Tx	Antenna Pol.	:Horizontal
EUT Pol	:H Plane	Engineer	:WJ Lin



Freq. MHz	Detector Mode PK/QP/AV	Spectrum Reading Level dBµV	Factor dB	Actual FS dBµV/m	Limit @3m dBµV/m	Margin dB
5000.000	RMS	36.36	4.58	40.94	53.90	-12.96
6489.600	RMS	35.02	7.86	42.88	53.90	-11.02
12979.200	RMS	17.76	11.62	29.38	33.90	-4.52

7.5 Transmission Timeout

Frequency (MHz)	Transmission time (seconds)	Limit (seconds)
6489.6	4.17	≤10

The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgment from the associated receiver that its transmission is being received.

7.6 AC Power Line Conducted Emission

N/A: Powered from DC 12V car battery.

~ End of Report ~