

CFR 47 FCC PART 15 SUBPART F

TEST REPORT

For

RadBeacon LocatorTent

MODEL NUMBER: RUWB-001

FCC ID: 2ABYU-RUWB-001

REPORT NUMBER: E04A25050739F00201

ISSUE DATE: October 31, 2025

Prepared for

Radius Networks, Inc.

3299 K Street Nw Suite 400 Washington Dist of Columbia 20007 United States

Prepared by

Guangdong Global Testing Technology Co., Ltd.

**Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park,
Dongguan city, Guangdong, People's Republic of China, 523808**

**This report is based on a single evaluation of the submitted sample(s) of the above mentioned
Product, it does not imply an assessment of the production of the products.
This report shall not be reproduced, except in full, without the written approval of Guangdong Global
Testing Technology Co., Ltd.**

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	October 31, 2025	Initial Issue	

Summary of Test Results			
Clause	Test Items	FCC Rules	Test Results
1	Radiated Spurious Emission	CFR 47 FCC §15.209(a) CFR 47 FCC §15.517(c) CFR 47 FCC §15.517(d) CFR 47 FCC §15.521	Pass
2	Peak Emissions within a 50MHz Bandwidth	CFR 47 FCC §15.517(e) CFR 47 FCC §15.521	Pass
3	10dBc UWB Bandwidth	CFR 47 FCC §15.517(b)	Pass
4	Conducted Emission Test For AC Power Port	CFR 47 FCC §15.207	N/A
5	Transmission time	CFR 47 FCC §15.517(a)(5)	Pass
6	Antenna Requirement	CFR 47 FCC §15.203	Pass
Note 1: N/A: In this whole report not applicable. Note 2: This test report is only published to and used by the applicant, and it is not for evidence purpose in China. Note 3: The measurement result for the sample received is <Pass> according to < CFR 47 FCC PART 15 SUBPART F > when <Accuracy Method> decision rule is applied.			

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS.....	5
2. TEST METHODOLOGY.....	6
3. FACILITIES AND ACCREDITATION.....	6
4. CALIBRATION AND UNCERTAINTY	7
4.1. <i>MEASURING INSTRUMENT CALIBRATION</i>	<i>7</i>
4.2. <i>MEASUREMENT UNCERTAINTY.....</i>	<i>7</i>
5. EQUIPMENT UNDER TEST	8
5.1. <i>DESCRIPTION OF EUT</i>	<i>8</i>
5.2. <i>MAXIMUM PEAK POWER.....</i>	<i>8</i>
5.3. <i>TEST CHANNEL CONFIGURATION</i>	<i>8</i>
5.4. <i>DESCRIPTION OF AVAILABLE ANTENNAS</i>	<i>8</i>
5.5. <i>DESCRIPTION OF TEST SETUP.....</i>	<i>9</i>
6. PEAK EMISSIONS WITHIN A 50MHZ BANDWIDTH	34
7. 10dBc UWB BANDWIDTH.....	38
8. Transmission Time	40
9. ANTENNA REQUIREMENTS	42

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name: Radius Networks, Inc.
Address: 3299 K Street Nw Suite 400 Washington Dist of Columbia 20007
United States

Manufacturer Information

Company Name: Dongguan RongMai Electronic Technology Co, Ltd
Address: Lingding #10-13, Chukeng Village, Dongkeng Town, Dongguan
City

EUT Information

EUT Name: RadBeacon LocatorTent
Model: RUWB-001
Brand: N/A
Sample Received Date: /
Sample Status: June 24, 2025
Sample ID: Normal
Date of Tested: A25050739 001

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
CFR 47 FCC PART 15 SUBPART F	PASS
ISED RSS-220 ISSUE 1	PASS
ISED RSS-GEN ISSUE 5	PASS

Prepared By:

poal chen

Poal Chen

Project Engineer

Checked By:

Alan He

Alan He

Laboratory Leader

Approved By:

Shawn Wen

Shawn Wen

Laboratory Manager



2. TEST METHODOLOGY

All tests were performed in accordance with the standard CFR 47 FCC Part 2, CFR 47 FCC Part 15, KDB414788 D01 Radiated Test Site v01r01, ANSI C63.10-2013.

3. FACILITIES AND ACCREDITATION

Accreditation Certificate	A2LA (Certificate No.: 6947.01) Guangdong Global Testing Technology Co., Ltd. has been assessed and proved to be in compliance with A2LA. FCC (FCC Designation No.: CN1343) Guangdong Global Testing Technology Co., Ltd. has been recognized to perform compliance testing on equipment subject to Supplier's Declaration of Conformity (SDoC) and Certification rules ISED (Company No.: 30714) Guangdong Global Testing Technology Co., Ltd. has been registered and fully described in a report filed with ISED. The Company Number is 30714 and the test lab Conformity Assessment Body Identifier (CABID) is CN0148.
---------------------------	--

Note: All tests measurement facilities use to collect the measurement data are located at Room 101-105, 203-210, Building 1, No.2, Keji 8 Road, Songshan Lake Park, Dongguan city, Guangdong, People's Republic of China, 523808.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Test Item	Frequency Range	k	U(dB)
Radiated emissions	9 kHz ~ 30 MHz	2	4.16
Radiated emissions	30 MHz ~ 1 GHz	2	3.79
Radiated emissions	1 GHz ~ 18 GHz	2	5.62
Radiated emissions	18 GHz ~ 40 GHz	2	5.54
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.			

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

EUT Name	RadBeacon LocatorTent	
Model	RUWB-001	
Series Model	N/A	
Product Description	Operation Frequency	6500 MHz
	Modulation Type	BPM
Ratings	2x 1.5V (in series 3V) AAA battery cell	
Hardware Version	V0	
Software Version	V0	
Note	according to the manufacture declaration, base on the use case and product design, the product will be only operated indoors, the locations will be completely enclosed by walls and a ceiling, compliance with § 15.517 (a).	

5.2. MAXIMUM PEAK POWER

Frequency (MHz)	Number of Transmit Chains (NTX)	Channel Number	Max Peak field strength (dBμV/m)
6500	1	1	92.47

5.3. TEST CHANNEL CONFIGURATION

Channel	Frequency (MHz)	Channel	Frequency(MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
5	6500	/	/	/	/	/	/

5.4. DESCRIPTION OF AVAILABLE ANTENNAS

Ant.	Frequency (MHz)	Antenna Type	Antenna Gain (dBi)
1	6500	PCB Antenna	0

Test Mode	Transmit and Receive Mode	Description
6500MHz	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

Note: The value of the antenna gain was declared by customer.

5.5. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

Equipment	Manufacturer	Model No.
Test the serial port board	N/A	N/A

TEST SETUP

The EUT can work in engineering mode with the inside software.

SETUP DIAGRAM FOR TESTS

Radiated emissions:



MEASURING INSTRUMENT AND SOFTWARE USED

Test Equipment of Conducted RF					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
Spectrum Analyzer	Rohde & Schwarz	FSV40	102257	2025/8/23	2026/8/22
Spectrum Analyzer	KEYSIGHT	N9020A	MY51285127	2025/8/23	2026/8/22
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY61253075	2025/8/23	2026/8/22
Vector Signal Generator	Rohde & Schwarz	SMM100A	101899	2025/8/23	2026/8/22
RF Control box	MWRF-test	MW100-RFCB	MW220926GTG	2025/8/23	2026/8/22
Wideband Radio Communication Tester	Rohde & Schwarz	CMW270	102792	2025/8/23	2026/8/22
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	103235	2025/8/23	2026/8/22
temperature humidity chamber	Espec	SH-241	SH-241-2014	2025/8/23	2026/8/22
RF Test Software	MWRF-test	MTS8310E (Ver. V2/0)	N/A	N/A	N/A

Test Equipment of Radiated emissions below 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2146	2022/08/30	2025/08/29
EMI Test Receiver	Rohde & Schwarz	ESCI3	101409	2025/8/23	2026/8/22
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2025/8/23	2026/8/22
Pre-Amplifier	HzEMC	HPA-9K0130	HYP A21001	2025/8/23	2026/8/22
Biconilog Antenna	Schwarzbeck	VULB 9168	01315	2025/8/23	2026/8/22
Biconilog Antenna	ETS	3142E	00243651	2025/02/22	2028/02/21
Loop Antenna	ETS	6502	00243668	2025/02/22	2028/02/21
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE)	N/A	N/A	N/A

Test Equipment of Radiated emissions above 1GHz					
Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due Date
3m Semi-anechoic Chamber	ETS	9m*6m*6m	Q2149	2025/8/23	2026/8/22
Spectrum Analyzer	Rohde & Schwarz	FSV40	101413	2025/8/23	2026/8/22
Spectrum Analyzer	KEYSIGHT	N9020A	MY51283932	2025/8/23	2026/8/22
Pre-Amplifier	HzEMC	HPA-1G1850	HYP A21003	2025/8/23	2026/8/22
Horn antenna	ETS	3117	00246069	2025/02/22	2028/02/21
Pre-Amplifier	HzEMC	HPA-184057	HYP A21004	2025/8/23	2026/8/22
Horn antenna	ETS	3116C	00246265	2025/02/22	2028/02/21
RF Filter Bank	HzEMC	HSW-F18	HSWF2218E01	2025/8/23	2026/8/22
RF Filter Bank	HzEMC	HPF18	HPF2218E02	2025/8/23	2026/8/22
Test Software	Farad	EZ-EMC (Ver.FA-03A2 RE+)	N/A	N/A	N/A

RADIATED EMISSION TEST

LIMITS

For FCC, please refer to FCC §15.205, §15.209, §15.517

(a). Limits below 960MHz for FCC

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

(b). Limits above 960MHz

For FCC 15.517

Frequency in MHz	EIRP in dBm
960-1610	-75.3
1610-1990	-53.3
1990-3100	-51.3
3100-10600	-41.3
Above 10600	-51.3

Frequency (MHz)	E.i.r.p (dBm)	Field Strength (dBuV/m @ 3m)	Field Strength (dBuV/m @ 1m)
960 - 1610	-75.3	19.9	29.44
1610 - 1990	-53.3	41.9	51.44
1990 - 3100	-51.3	43.9	53.44
3100 -10600	-41.3	53.9	63.44
above 10600	-51.3	43.9	53.44

$$E(\text{dBuV/m})@3\text{m}=P(\text{dBm EIRP})+ 95.2$$

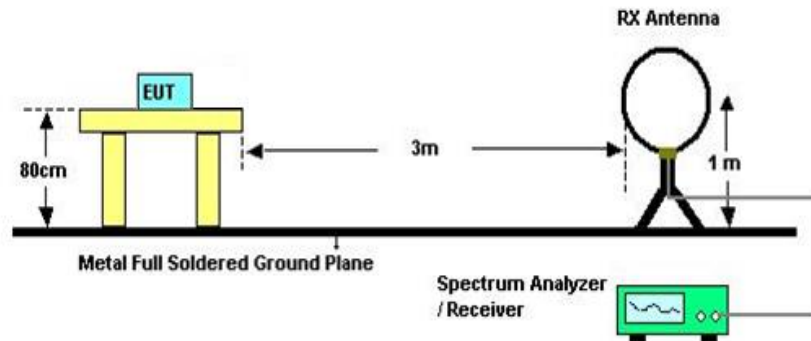
$$E(\text{dBuV/m})@1\text{m}=E(\text{dBuV/m})@3\text{m}+20*\log(3/1)$$

(c). In addition to the radiated emission limits specified in the table in paragraph (a)(b) of this section, 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 (MHz)	E.i.r.p (dBm)	Field Strength (dBuV/m @ 3m)	Field Strength (dBuV/m @ 1m)
1164-1240	-85.3	9.9	19.44
1559-1610	-85.3	9.9	19.44

TEST SETUP AND PROCEDURE

Below 30MHz

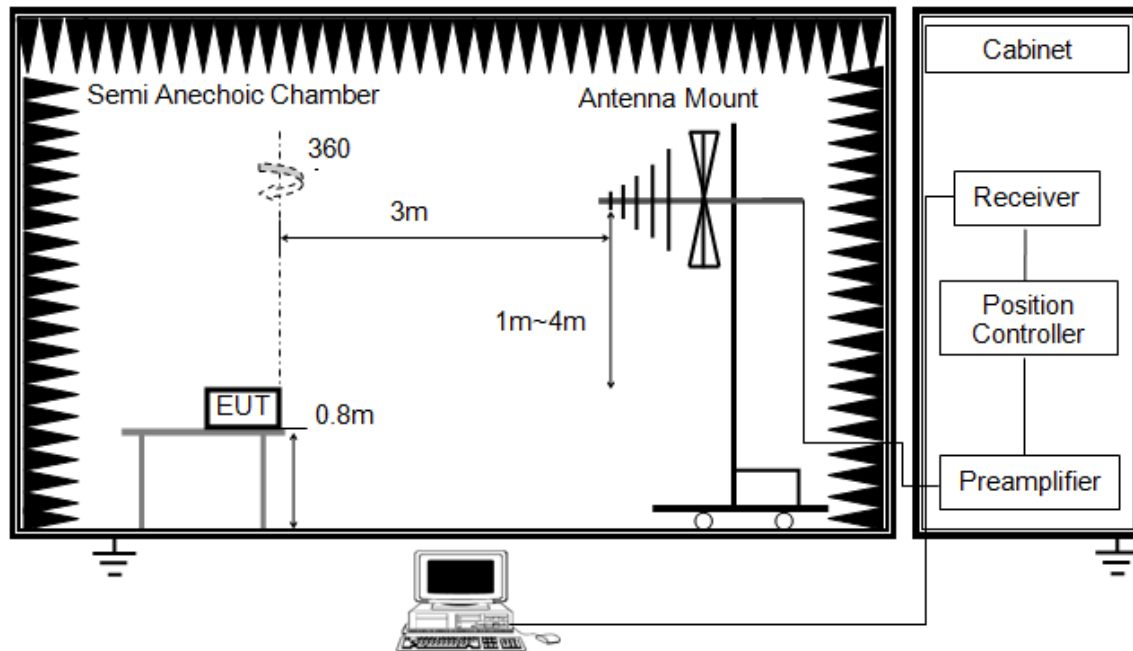


The setting of the spectrum analyser

RBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
VBW	200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz)
Sweep	Auto
Detector	Peak/QP/ Average
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80cm meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1m height antenna tower.
5. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
6. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
7. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
8. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open field site. Therefore, the sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

Below 1G

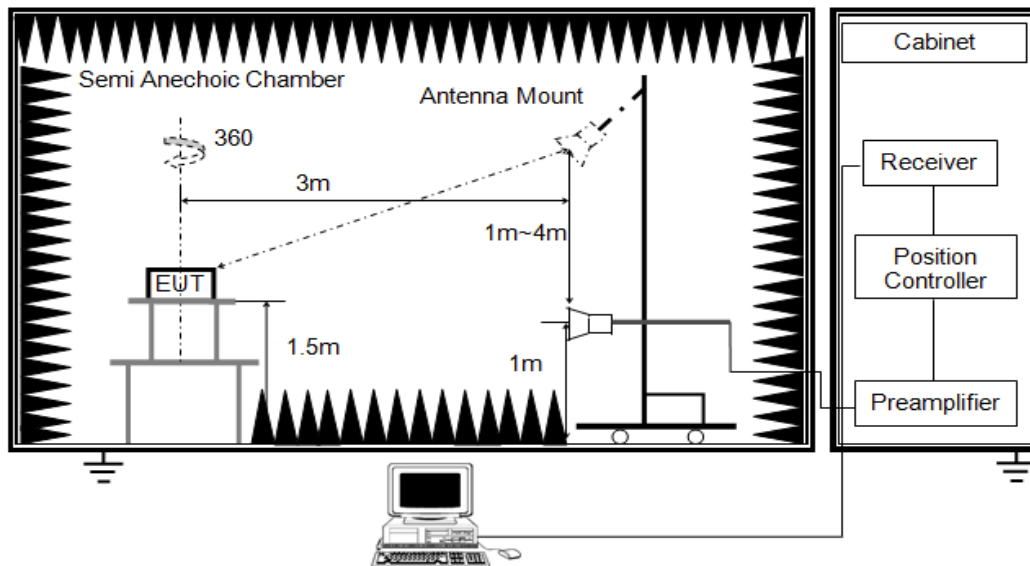


The setting of the spectrum analyser

RBW	120K
VBW	300K
Sweep	Auto
Detector	Peak/QP
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80cm above ground.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
7. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

Above 1G



The setting of the spectrum analyser

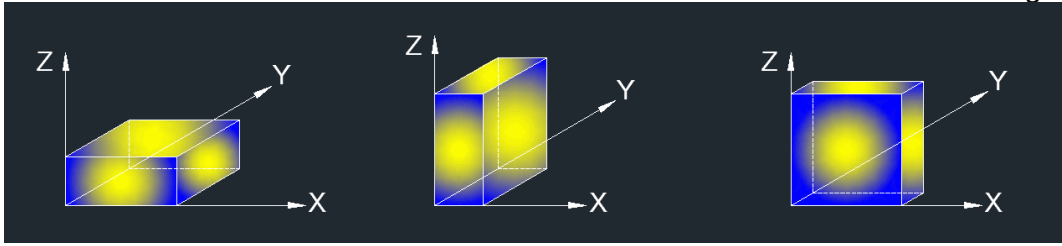
RBW	1M
VBW	3M
Sweep	Auto/see note 6
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10-2013.
2. The EUT was arranged to its worst case and then tune the antenna tower (1.5 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter or band reject filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80cm above ground.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
4. The EUT was set 1 meter from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
6. For AVG measurements, select the power averaging (rms) detector, set the sweep time so that there is no more than a 1 ms integration period over each measurement bin. Many older instruments use a default value of approximately 600 bins per scan. Assuming this value, a sweep time of 600 ms provides the required 1 ms integration period within each measurement bin. The number of measurement bins can be specified with many modern instruments, providing many other possible combinations of sweep time and number of measurement bins that also result in adherence to the 1 ms maximum integration time requirement. The rms-average power spectral density is the highest integrated power detected within a 1 MHz RBW over a 1 ms integration period.

X axis, Y axis, Z axis positions:

TRF No.: 04-E001-0B

Global Testing, Great Quality.



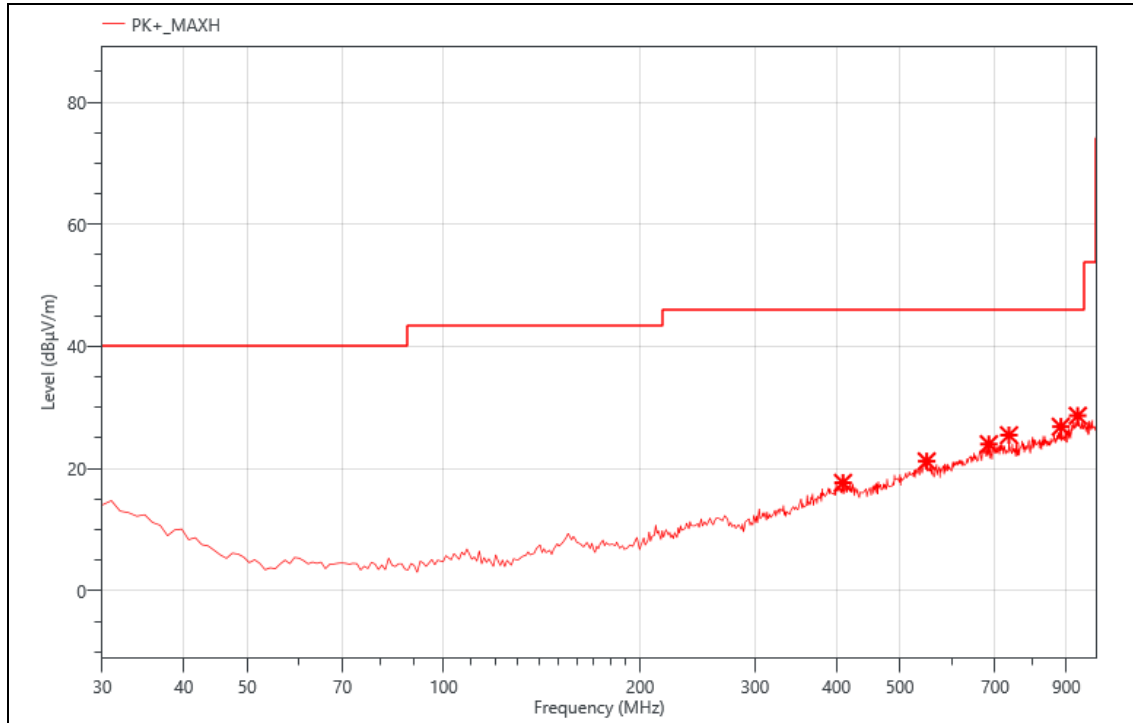
Note: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis for horizontal and Z axis for vertical) data recorded in the report.

TEST ENVIRONMENT

Temperature	23.9°C	Relative Humidity	53%
Atmosphere Pressure	101kPa	Test Voltage	DC 3V

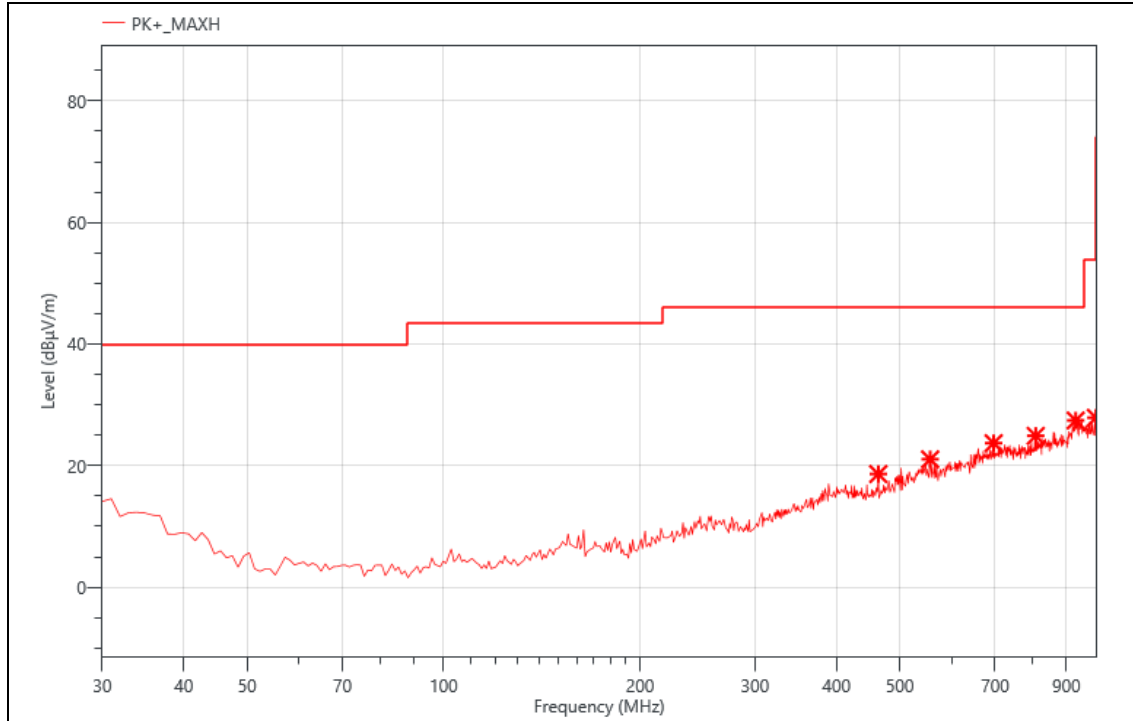
TEST RESULT - FCC PART 15 SUBPART F & RSS-220

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

**Critical_Freqs**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	409.270	31.15	-13.47	17.68	46.00	28.32	PK+	H
2	549.920	30.68	-9.49	21.19	46.00	24.81	PK+	H
3	684.750	31.23	-7.22	24.01	46.00	21.99	PK+	H
4	735.190	31.96	-6.48	25.48	46.00	20.52	PK+	H
5	882.630	31.34	-4.48	26.86	46.00	19.14	PK+	H
6	936.950	30.81	-2.16	28.65	46.00	17.35	PK+	H

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa



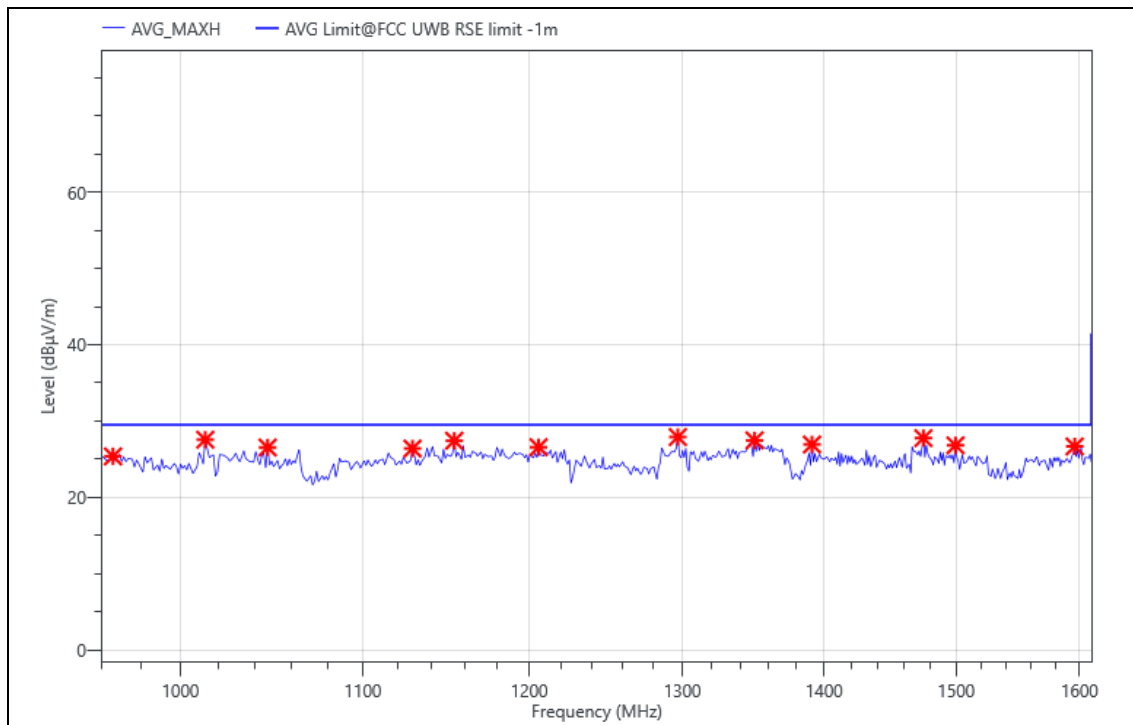
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	463.590	31.84	-13.21	18.63	46.00	27.37	PK+	V
2	556.710	30.88	-9.83	21.05	46.00	24.95	PK+	V
3	696.390	30.79	-7.08	23.71	46.00	22.29	PK+	V
4	807.940	30.46	-5.55	24.91	46.00	21.09	PK+	V
5	930.160	29.54	-2.1	27.44	46.00	18.56	PK+	V
6	999.030	30.12	-2.24	27.88	53.90	26.02	PK+	V

Note 1: Test distance is 3m.

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Standard	FCC UWB RSE limit -1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-	960 MHz-1610 MHz	AVG	1 MHz	Auto



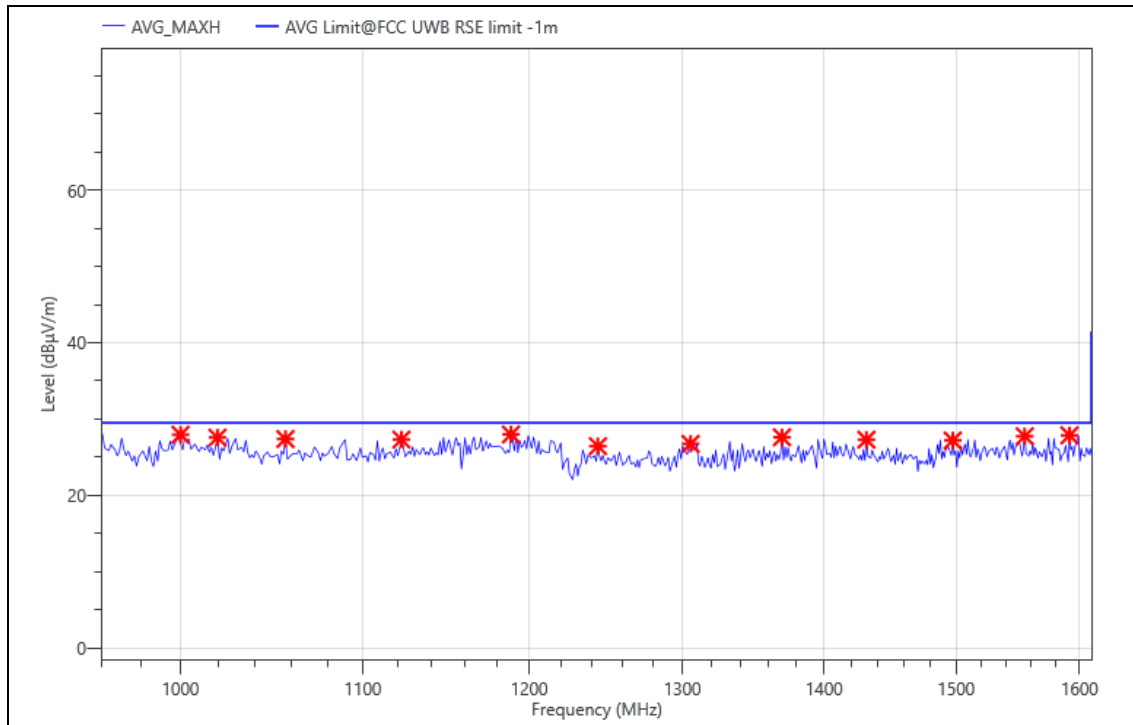
Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	E.I.R.P. Meas. (dBm)	E.I.R.P. Limit (dBm)	Margin (dB)	Det.	Pol.
-----	-------------	----------------	------------	----------------	----------------	----------------------	----------------------	-------------	------	------

1	965.417	47.15	-21.77	25.38	29.44	-79.36	-75.3	4.06	AVG	V
2	1013.083	49.54	-21.97	27.57	29.44	-77.17	-75.3	1.87	AVG	V
3	1046.667	49.07	-22.52	26.55	29.44	-78.19	-75.3	2.89	AVG	V
4	1129.000	49.38	-22.97	26.41	29.44	-78.33	-75.3	3.03	AVG	V
5	1153.917	50.47	-23.04	27.43	29.44	-77.31	-75.3	2.01	AVG	V
6	1205.917	49.25	-22.67	26.58	29.44	-78.16	-75.3	2.86	AVG	V
7	1296.917	50.73	-22.82	27.91	29.44	-76.83	-75.3	1.53	AVG	V
8	1350.000	50.05	-22.57	27.48	29.44	-77.26	-75.3	1.96	AVG	V
9	1391.167	49.56	-22.62	26.94	29.44	-77.8	-75.3	2.5	AVG	V
10	1474.583	50.31	-22.54	27.77	29.44	-76.97	-75.3	1.67	AVG	V
11	1499.500	49.26	-22.43	26.83	29.44	-77.91	-75.3	2.61	AVG	V
12	1595.917	48.41	-21.73	26.68	29.44	-78.06	-75.3	2.76	AVG	V

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Standard	FCC UWB RSE limit -1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-RX	960 MHz-1610 MHz	AVG	1 MHz	Auto

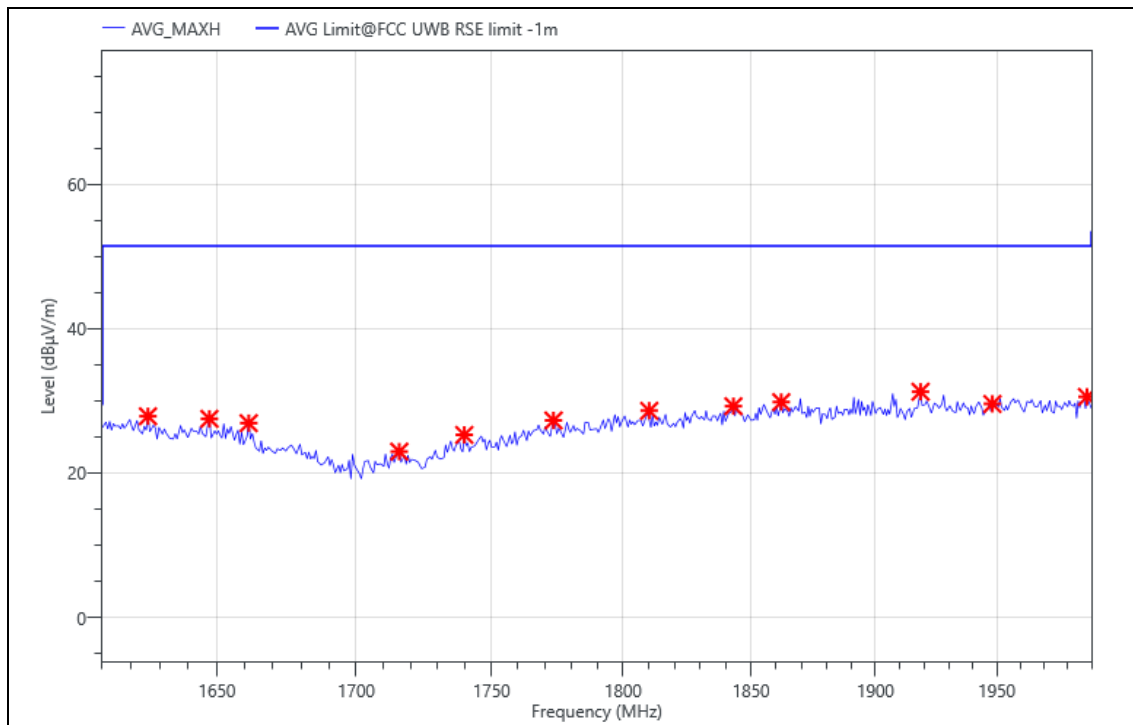


Critical_Freqs

No.	Freq. (MHz)	Reading (dBµV)	Corr. (dB)	Meas. (dBµV/m)	Limit (dBµV/m)	E.I.R.P. Meas. (dBm)	E.I.R.P. Limit (dBm)	Margin (dB)	Det.	Pol.
1	1000.083	49.87	-21.92	27.95	29.44	-76.79	-75.3	1.49	AVG	H
2	1056.417	49.95	-22.56	27.39	29.44	-77.35	-75.3	2.05	AVG	H
3	1188.583	50.71	-22.73	27.98	29.44	-76.76	-75.3	1.46	AVG	H
4	1305.583	49.59	-22.84	26.75	29.44	-77.99	-75.3	2.69	AVG	H
5	1369.500	50.17	-22.55	27.62	29.44	-77.12	-75.3	1.82	AVG	H
6	1554.750	49.80	-22.04	27.76	29.44	-76.98	-75.3	1.68	AVG	H

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Standard	FCC UWB RSE limit -1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-RX	1610 MHz-1990	AVG	1 MHz	Auto

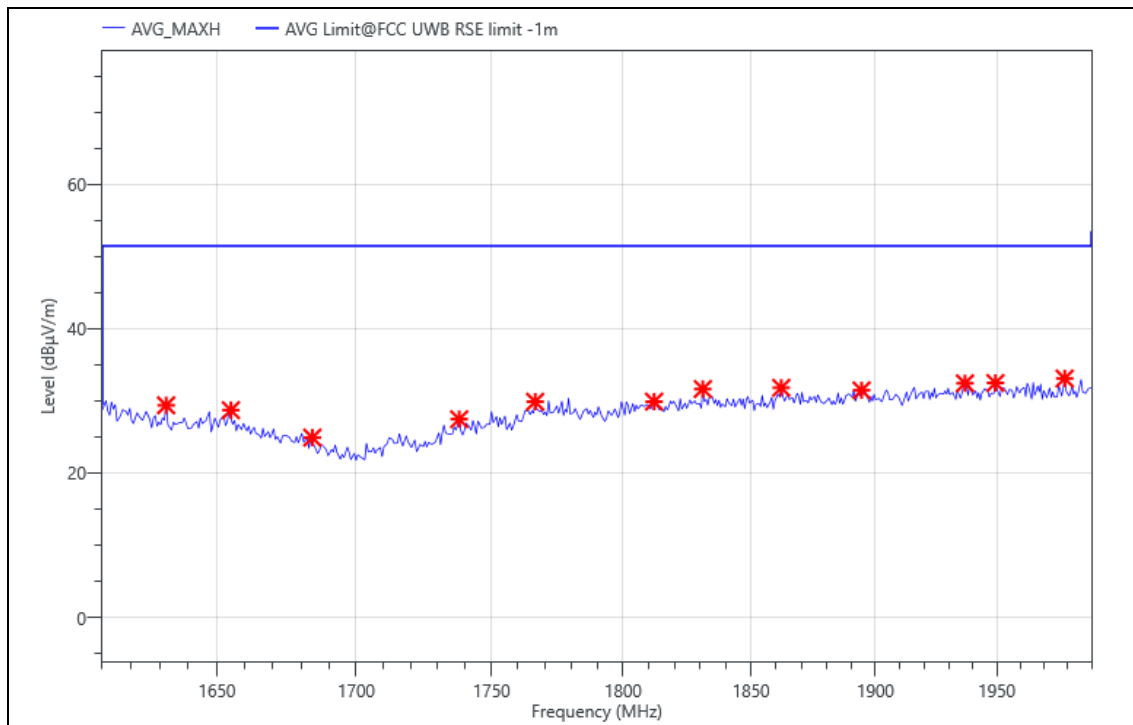


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	E.I.R.P. Meas. (dBm)	E.I.R.P. Limit (dBm)	Margin (dB)	Det.	Pol.
1	1625.833	49.44	-21.57	27.87	51.44	-76.87	-53.3	23.57	AVG	H
2	1647.367	48.82	-21.3	27.52	51.44	-77.22	-53.3	23.92	AVG	H
3	1661.300	48.09	-21.17	26.92	51.44	-77.82	-53.3	24.52	AVG	H
4	1715.767	43.68	-20.71	22.97	51.44	-81.77	-53.3	28.47	AVG	H
5	1739.833	45.84	-20.55	25.29	51.44	-79.45	-53.3	26.15	AVG	H
6	1773.400	47.50	-20.21	27.29	51.44	-77.45	-53.3	24.15	AVG	H
7	1810.133	48.62	-19.99	28.63	51.44	-76.11	-53.3	22.81	AVG	H
8	1843.067	48.98	-19.71	29.27	51.44	-75.47	-53.3	22.17	AVG	H
9	1862.067	49.42	-19.59	29.83	51.44	-74.91	-53.3	21.61	AVG	H
10	1918.433	50.34	-19.07	31.27	51.44	-73.47	-53.3	20.17	AVG	H
11	1948.200	48.38	-18.8	29.58	51.44	-75.16	-53.3	21.86	AVG	H
12	1988.100	49.07	-18.51	30.56	51.44	-74.18	-53.3	20.88	AVG	H

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Standard	FCC UWB RSE limit -1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-RX	1610 MHz-1990	AVG	1 MHz	Auto

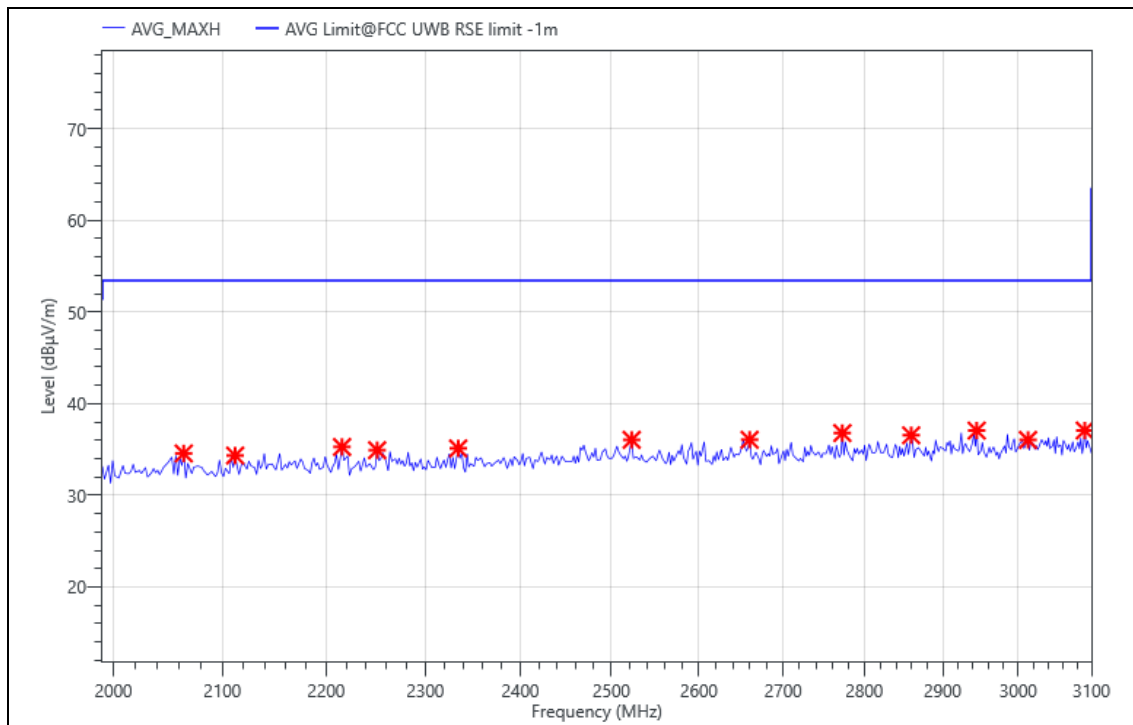


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	E.I.R.P. Meas. (dBm)	E.I.R.P. Limit (dBm)	Margin (dB)	Det.	Pol.
1	1632.167	50.88	-21.49	29.39	51.44	-75.35	-53.3	22.05	AVG	V
2	1654.967	49.94	-21.22	28.72	51.44	-76.02	-53.3	22.72	AVG	V
3	1684.100	45.90	-20.98	24.92	51.44	-79.82	-53.3	26.52	AVG	V
4	1737.933	48.02	-20.56	27.46	51.44	-77.28	-53.3	23.98	AVG	V
5	1766.433	50.19	-20.31	29.88	51.44	-74.86	-53.3	21.56	AVG	V
6	1812.033	49.87	-19.97	29.90	51.44	-74.84	-53.3	21.54	AVG	V
7	1831.033	51.43	-19.78	31.65	51.44	-73.09	-53.3	19.79	AVG	V
8	1862.067	51.41	-19.59	31.82	51.44	-72.92	-53.3	19.62	AVG	V
9	1894.367	50.76	-19.3	31.46	51.44	-73.28	-53.3	19.98	AVG	V
10	1936.800	51.34	-18.9	32.44	51.44	-72.3	-53.3	19.00	AVG	V
11	1949.467	51.27	-18.79	32.48	51.44	-72.26	-53.3	18.96	AVG	V
12	1978.600	51.65	-18.55	33.10	51.44	-71.64	-53.3	18.34	AVG	V

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Standard	FCC UWB RSE limit -1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-RX	1990 MHz-3100	AVG	1 MHz	Auto

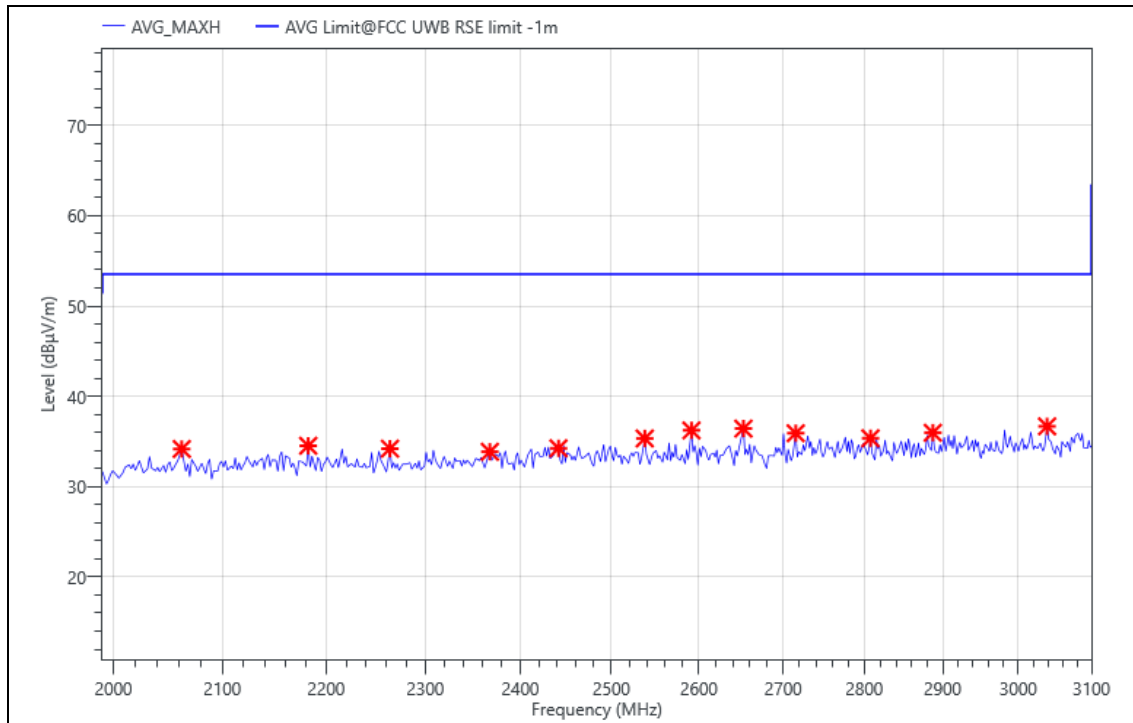


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	E.I.R.P. Meas. (dBm)	E.I.R.P. Limit (dBm)	Margin (dB)	Det.	Pol.
1	2064.000	52.77	-18.2	34.57	53.44	-70.17	-51.3	18.87	AVG	V
2	2112.100	52.52	-18.18	34.34	53.44	-70.4	-51.3	19.10	AVG	V
3	2215.700	53.17	-17.9	35.27	53.44	-69.47	-51.3	18.17	AVG	V
4	2250.850	52.79	-17.87	34.92	53.44	-69.82	-51.3	18.52	AVG	V
5	2334.100	52.73	-17.61	35.12	53.44	-69.62	-51.3	18.32	AVG	V
6	2522.800	53.17	-17.12	36.05	53.44	-68.69	-51.3	17.39	AVG	V
7	2659.700	52.84	-16.78	36.06	53.44	-68.68	-51.3	17.38	AVG	V
8	2772.550	53.57	-16.78	36.79	53.44	-67.95	-51.3	16.65	AVG	V
9	2859.500	53.02	-16.47	36.55	53.44	-68.19	-51.3	16.89	AVG	V
10	2944.600	53.03	-15.97	37.06	53.44	-67.68	-51.3	16.38	AVG	V
11	3013.050	51.72	-15.68	36.04	53.44	-68.7	-51.3	17.40	AVG	V
12	3090.750	52.59	-15.52	37.07	53.44	-67.67	-51.3	16.37	AVG	V

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Standard	FCC UWB RSE limit -1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-RX	1990 MHz-3100	AVG	1 MHz	Auto

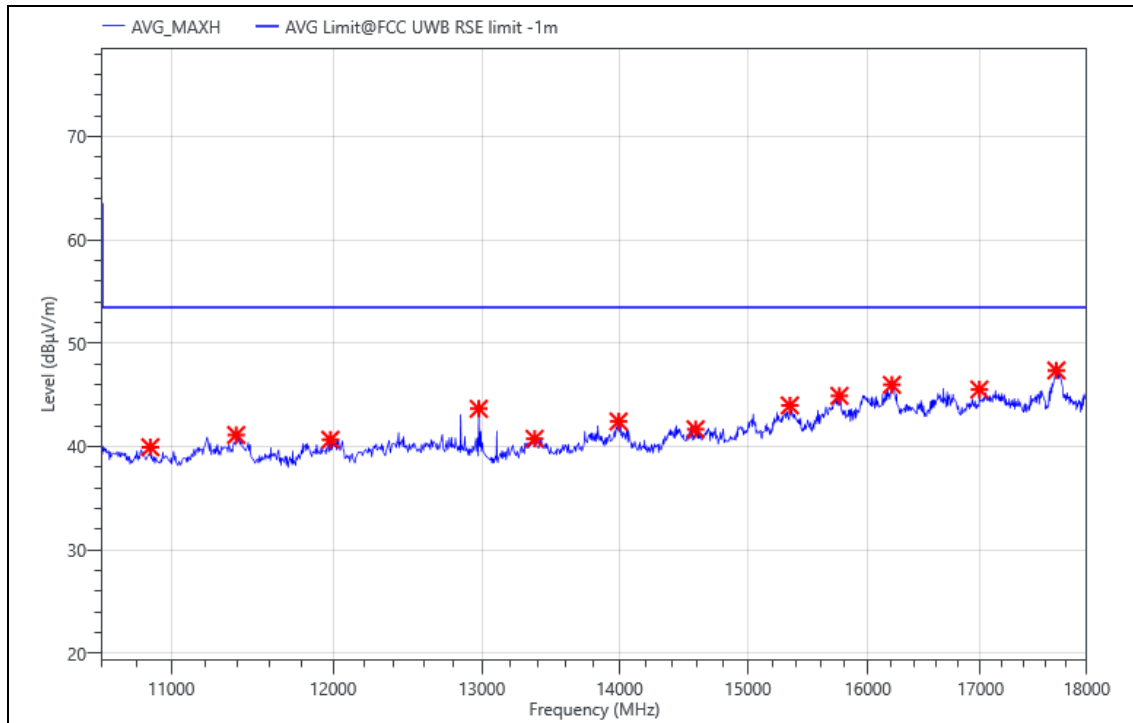


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	E.I.R.P. Meas. (dBm)	E.I.R.P. Limit (dBm)	Margin (dB)	Det.	Pol.
1	2062.150	52.38	-18.21	34.17	53.44	-70.57	-51.3	19.27	AVG	H
2	2182.400	52.51	-17.98	34.53	53.44	-70.21	-51.3	18.91	AVG	H
3	2263.800	51.95	-17.74	34.21	53.44	-70.53	-51.3	19.23	AVG	H
4	2367.400	51.29	-17.43	33.86	53.44	-70.88	-51.3	19.58	AVG	H
5	2441.400	51.52	-17.27	34.25	53.44	-70.49	-51.3	19.19	AVG	H
6	2537.600	52.39	-17.05	35.34	53.44	-69.4	-51.3	18.10	AVG	H
7	2591.250	53.18	-16.95	36.23	53.44	-68.51	-51.3	17.21	AVG	H
8	2652.300	53.14	-16.71	36.43	53.44	-68.31	-51.3	17.01	AVG	H
9	2715.200	52.76	-16.84	35.92	53.44	-68.82	-51.3	17.52	AVG	H
10	2807.700	52.03	-16.67	35.36	53.44	-69.38	-51.3	18.08	AVG	H
11	2887.250	52.18	-16.21	35.97	53.44	-68.77	-51.3	17.47	AVG	H
12	3038.950	52.25	-15.57	36.68	53.44	-68.06	-51.3	16.76	AVG	H

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Standard	FCC UWB RSE limit -1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-RX	10600 MHz-18000	AVG	1 MHz	Auto

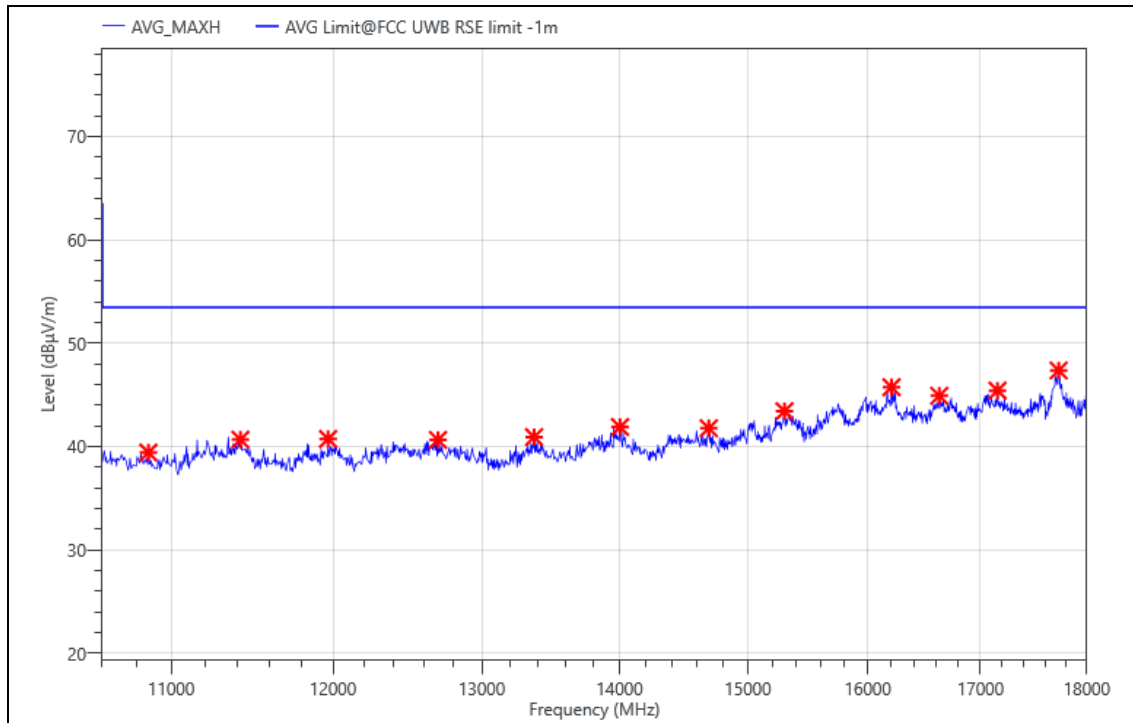


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	E.I.R.P. Meas. (dBm)	E.I.R.P. Limit (dBm)	Margin (dB)	Det.	Pol.
1	10877.500	44.94	-5.01	39.93	53.44	-64.81	-51.3	13.51	AVG	V
2	11391.800	45.36	-4.25	41.11	53.44	-63.63	-51.3	12.33	AVG	V
3	11983.800	45.02	-4.36	40.66	53.44	-64.08	-51.3	12.78	AVG	V
4	12979.100	48.43	-4.78	43.65	53.44	-61.09	-51.3	9.79	AVG	V
5	13375.000	44.98	-4.23	40.75	53.44	-63.99	-51.3	12.69	AVG	V
6	13992.900	45.58	-3.16	42.42	53.44	-62.32	-51.3	11.02	AVG	V
7	14584.900	44.69	-3.02	41.67	53.44	-63.07	-51.3	11.77	AVG	V
8	15343.400	46.95	-2.98	43.97	53.44	-60.77	-51.3	9.47	AVG	V
9	15757.800	46.89	-1.99	44.90	53.44	-59.84	-51.3	8.54	AVG	V
10	16209.200	46.34	-0.37	45.97	53.44	-58.77	-51.3	7.47	AVG	V
11	16989.900	46.35	-0.83	45.52	53.44	-59.22	-51.3	7.92	AVG	V
12	17707.700	47.18	0.18	47.36	53.44	-57.38	-51.3	6.08	AVG	V

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Standard	FCC UWB RSE limit -1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-RX	10600 MHz-18000	AVG	1 MHz	Auto

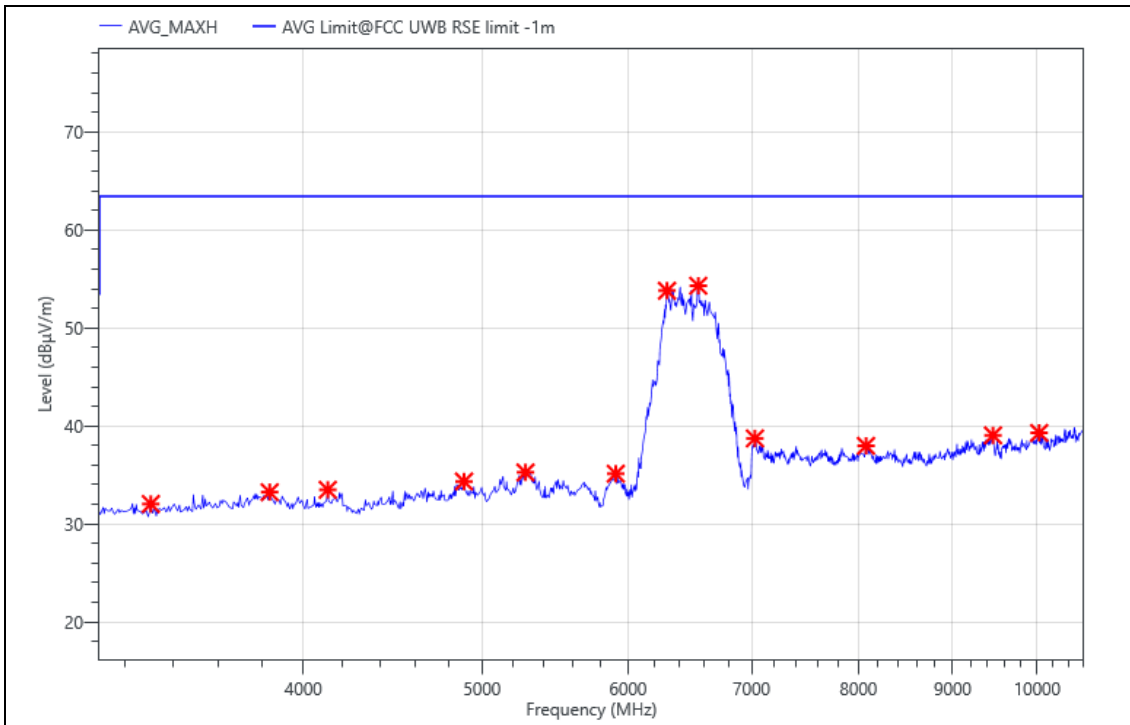


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	E.I.R.P. Meas. (dBm)	E.I.R.P. Limit (dBm)	Margin (dB)	Det.	Pol.
1	10866.400	44.38	-4.96	39.42	53.44	-65.32	-51.3	14.02	AVG	H
2	11417.700	44.71	-4.04	40.67	53.44	-64.07	-51.3	12.77	AVG	H
3	11969.000	45.37	-4.64	40.73	53.44	-64.01	-51.3	12.71	AVG	H
4	12697.900	45.22	-4.58	40.64	53.44	-64.1	-51.3	12.80	AVG	H
5	13371.300	45.13	-4.22	40.91	53.44	-63.83	-51.3	12.53	AVG	H
6	14004.000	45.17	-3.28	41.89	53.44	-62.85	-51.3	11.55	AVG	H
7	14688.500	45.16	-3.39	41.77	53.44	-62.97	-51.3	11.67	AVG	H
8	15299.000	46.10	-2.68	43.42	53.44	-61.32	-51.3	10.02	AVG	H
9	16205.500	46.11	-0.37	45.74	53.44	-59	-51.3	7.70	AVG	H
10	16627.300	45.94	-1.03	44.91	53.44	-59.83	-51.3	8.53	AVG	H
11	17156.400	45.90	-0.49	45.41	53.44	-59.33	-51.3	8.03	AVG	H
12	17729.900	46.84	0.52	47.36	53.44	-57.38	-51.3	6.08	AVG	H

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Standard	FCC UWB RSE limit -1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-	3100 MHz-10600	AVG	1 MHz	Auto

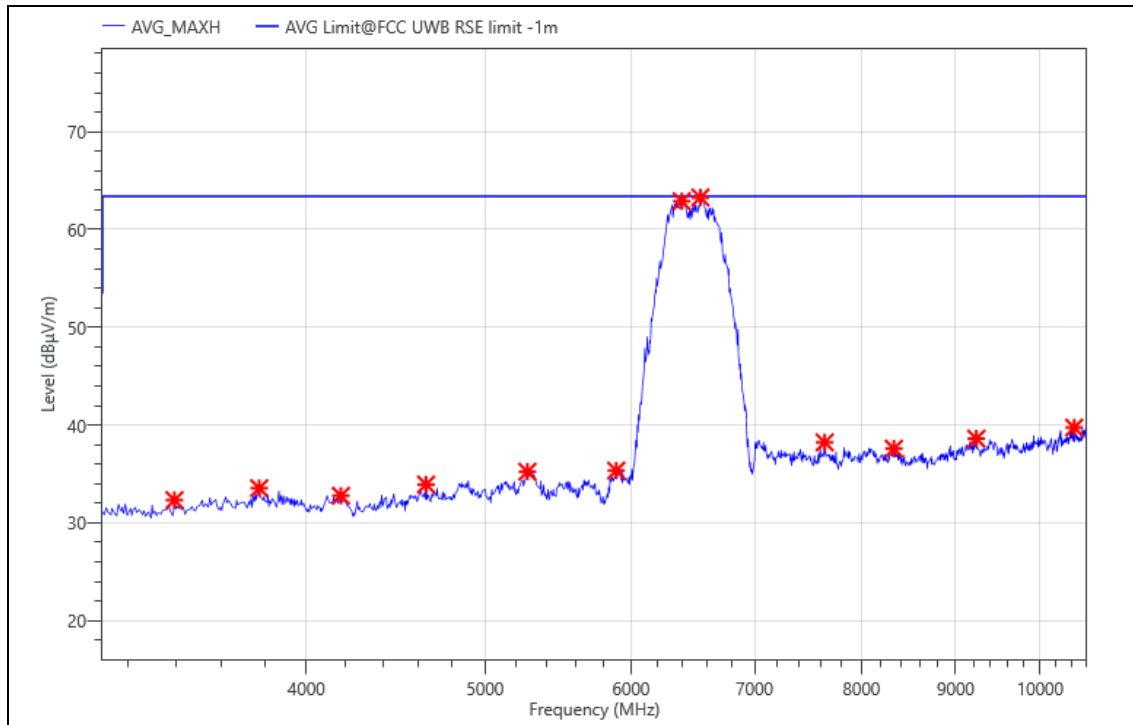


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	E.I.R.P. Meas. (dBm)	E.I.R.P. Limit (dBm)	Margin (dB)	Det.	Pol.
1	3306.250	46.72	-14.68	32.04	63.44	-72.7	-41.3	31.40	AVG	V
2	3835.000	46.87	-13.63	33.24	63.44	-71.5	-41.3	30.20	AVG	V
3	4123.750	46.16	-12.67	33.49	63.44	-71.25	-41.3	29.95	AVG	V
4	4888.750	45.40	-11.06	34.34	63.44	-70.4	-41.3	29.10	AVG	V
5	5278.750	44.73	-9.47	35.26	63.44	-69.48	-41.3	28.18	AVG	V
6	5908.750	43.65	-8.52	35.13	63.44	-69.61	-41.3	28.31	AVG	V
7	6298.750	61.19	-7.39	53.80	63.44	-50.94	-41.3	9.64	AVG	V
8	6550.000	62.38	-8.07	54.31	63.44	-50.43	-41.3	9.13	AVG	V
9	7030.000	46.05	-7.32	38.73	63.44	-66.01	-41.3	24.71	AVG	V
10	8076.250	45.76	-7.79	37.97	63.44	-66.77	-41.3	25.47	AVG	V
11	9463.750	45.18	-6.14	39.04	63.44	-65.7	-41.3	24.40	AVG	V
12	10026.250	45.42	-6.13	39.29	63.44	-65.45	-41.3	24.15	AVG	V

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Standard	FCC UWB RSE limit -1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-RX	3100 MHz-10600	AVG	1 MHz	Auto

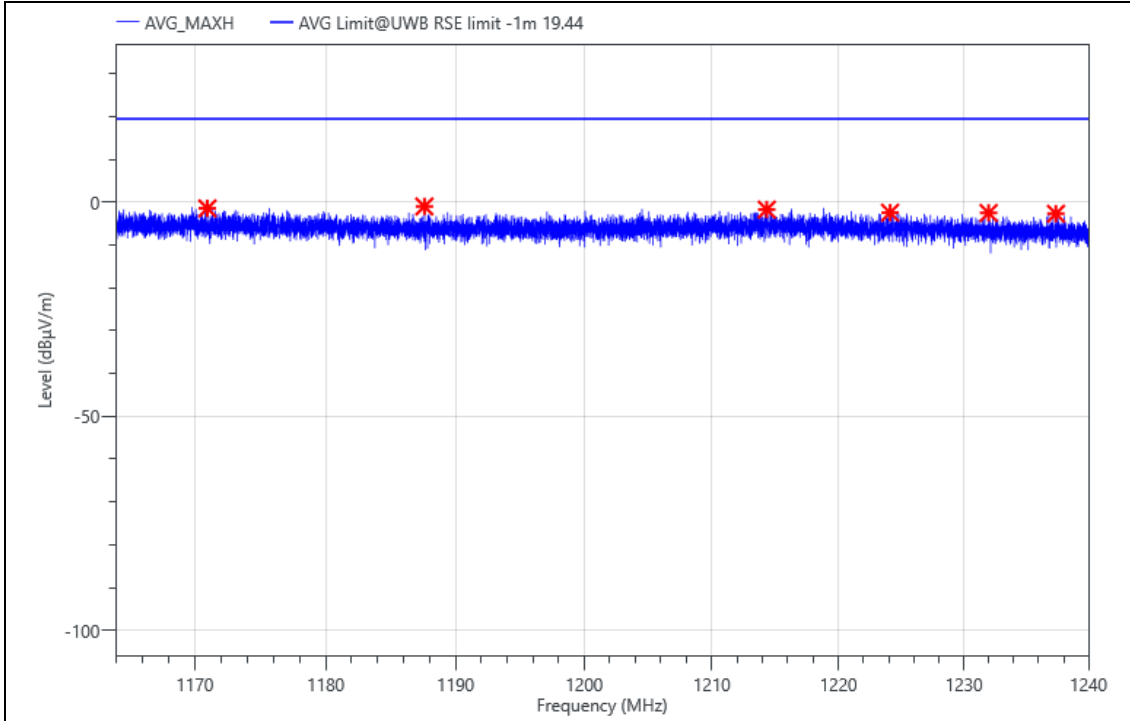


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	E.I.R.P. Meas. (dBm)	E.I.R.P. Limit (dBm)	Margin (dB)	Det.	Pol.
1	3392.500	46.80	-14.47	32.33	63.44	-72.41	-41.3	31.11	AVG	H
2	3771.250	47.08	-13.54	33.54	63.44	-71.2	-41.3	29.90	AVG	H
3	4176.250	45.02	-12.25	32.77	63.44	-71.97	-41.3	30.67	AVG	H
4	4645.000	45.51	-11.59	33.92	63.44	-70.82	-41.3	29.52	AVG	H
5	5271.250	44.81	-9.58	35.23	63.44	-69.51	-41.3	28.21	AVG	H
6	5890.000	43.80	-8.46	35.34	63.44	-69.4	-41.3	28.10	AVG	H
7	6392.500	70.79	-7.89	62.90	63.44	-41.84	-41.3	0.54	AVG	H
8	6542.500	71.36	-8.08	63.28	63.44	-41.46	-41.3	0.16	AVG	H
9	7641.250	45.76	-7.53	38.23	63.44	-66.51	-41.3	25.21	AVG	H
10	8331.250	45.20	-7.61	37.59	63.44	-67.15	-41.3	25.85	AVG	H
11	9235.000	45.30	-6.69	38.61	63.44	-66.13	-41.3	24.83	AVG	H
12	10435.000	45.41	-5.67	39.74	63.44	-65	-41.3	23.70	AVG	H

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Template	FCC UWB 1164 MHz-1240 MHz @ 1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-RX	1164 MHz-1240 MHz	AVG	1 MHz	Auto

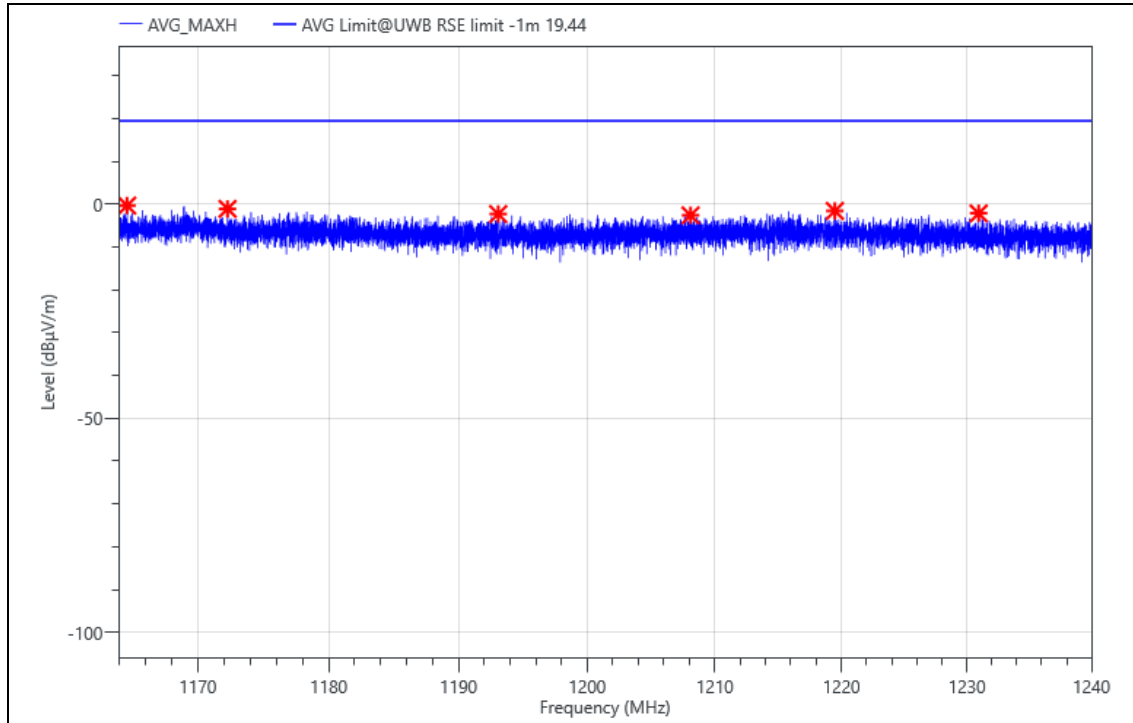


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	E.I.R.P. Meas. (dBm)	E.I.R.P. Limit (dBm)	Margin (dB)	Det.	Pol.
1	1170.960	21.49	-22.9	-1.41	19.44	-106.15	-85.3	20.85	AVG	V
2	1187.598	21.80	-22.74	-0.94	19.44	-105.68	-85.3	20.38	AVG	V
3	1214.331	21.06	-22.74	-1.68	19.44	-106.42	-85.3	21.12	AVG	V
4	1224.110	20.42	-22.83	-2.41	19.44	-107.15	-85.3	21.85	AVG	V
5	1231.969	20.35	-22.82	-2.47	19.44	-107.21	-85.3	21.91	AVG	V
6	1237.378	20.15	-22.8	-2.65	19.44	-107.39	-85.3	22.09	AVG	V

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Template	FCC UWB 1164 MHz-1240 MHz @ 1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-RX	1164 MHz-1240 MHz	AVG	1 MHz	Auto

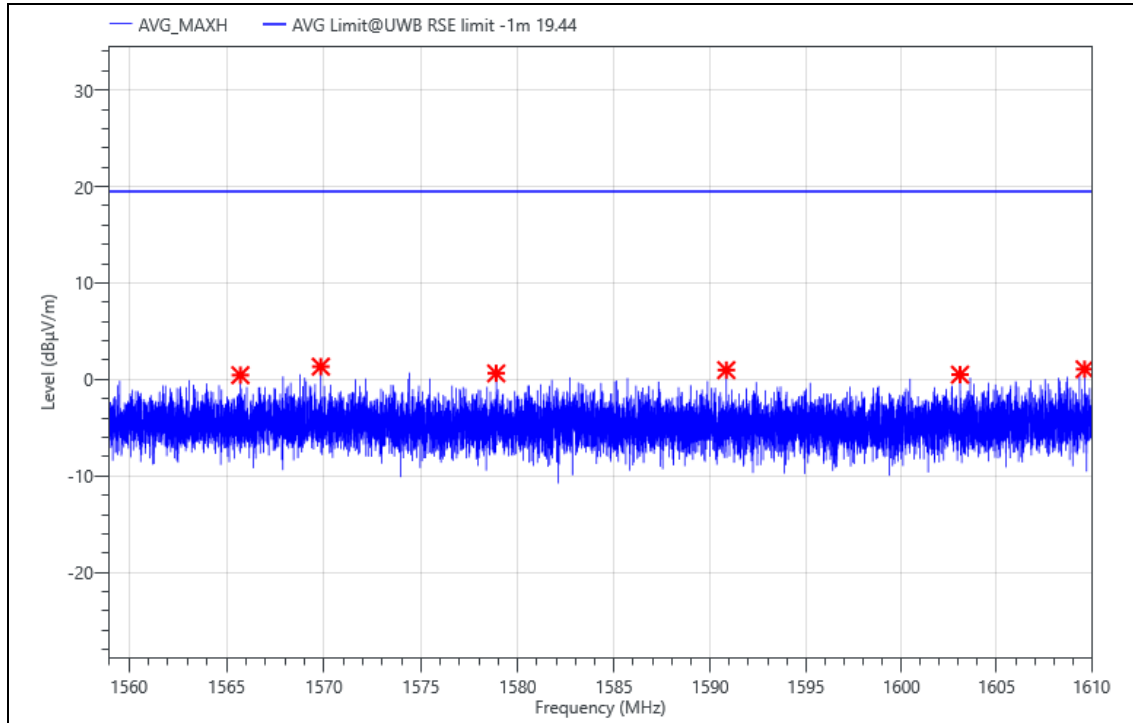


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	E.I.R.P. Meas. (dBm)	E.I.R.P. Limit (dBm)	Margin (dB)	Det.	Pol.
1	1164.633	22.67	-22.95	-0.28	19.44	-105.02	-85.3	19.72	AVG	H
2	1172.265	21.84	-22.89	-1.05	19.44	-105.79	-85.3	20.49	AVG	H
3	1193.076	20.43	-22.69	-2.26	19.44	-107.00	-85.3	21.70	AVG	H
4	1208.093	20.13	-22.69	-2.56	19.44	-107.30	-85.3	22.00	AVG	H
5	1219.480	21.26	-22.79	-1.53	19.44	-106.27	-85.3	20.97	AVG	H
6	1230.937	20.72	-22.82	-2.10	19.44	-106.84	-85.3	21.54	AVG	H

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Template	FCC UWB 1559 MHz-1610 MHz @ 1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-RX	1559 MHz-1610 MHz	AVG	1 MHz	Auto

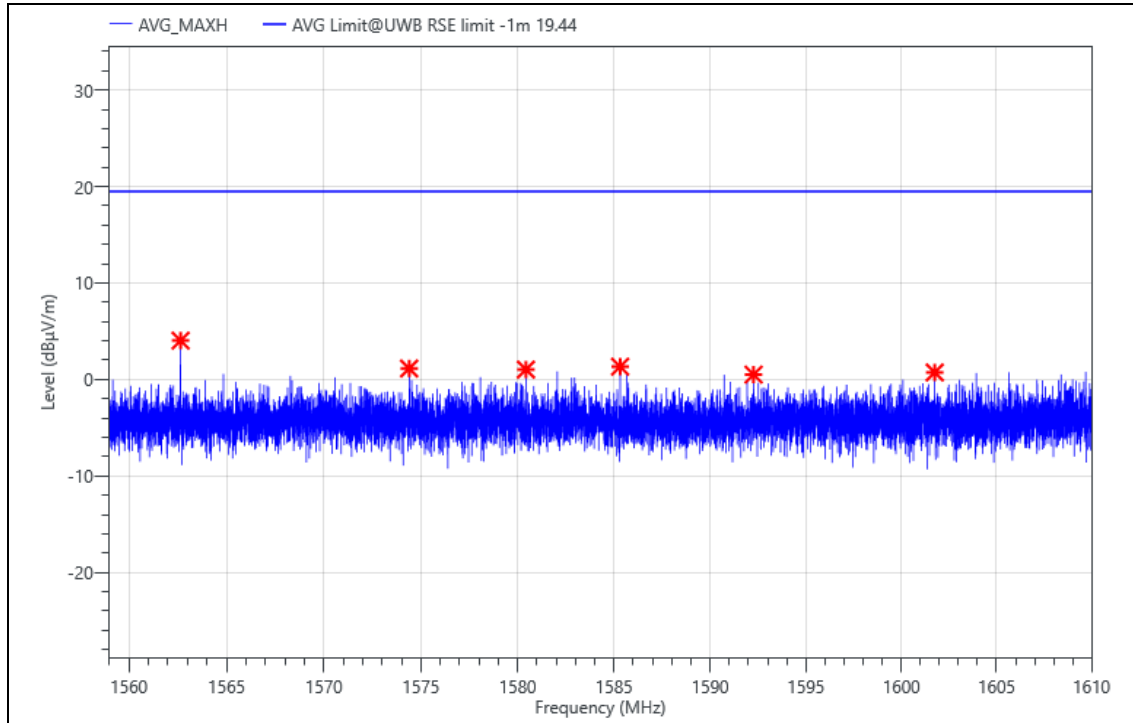


Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	E.I.R.P. Meas. (dBm)	E.I.R.P. Limit (dBm)	Margin (dB)	Det.	Pol.
1	1565.711	22.41	-21.96	0.45	19.44	-104.29	-85.3	18.99	AVG	V
2	1569.846	23.26	-21.93	1.33	19.44	-103.41	-85.3	18.11	AVG	V
3	1578.899	22.49	-21.86	0.63	19.44	-104.11	-85.3	18.81	AVG	V
4	1590.845	22.74	-21.77	0.97	19.44	-103.77	-85.3	18.47	AVG	V
5	1603.077	22.18	-21.68	0.50	19.44	-104.24	-85.3	18.94	AVG	V
6	1609.635	22.71	-21.65	1.06	19.44	-103.68	-85.3	18.38	AVG	V

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Template	FCC UWB 1559 MHz-1610 MHz @ 1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-RX	1559 MHz-1610 MHz	AVG	1 MHz	Auto



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	E.I.R.P. Meas. (dBm)	E.I.R.P. Limit (dBm)	Margin (dB)	Det.	Pol.
1	1562.647	26.01	-21.98	4.03	19.44	-100.71	-85.3	15.41	AVG	V
2	1574.398	23.03	-21.89	1.14	19.44	-103.60	-85.3	18.30	AVG	V
3	1580.433	22.87	-21.84	1.03	19.44	-103.71	-85.3	18.41	AVG	V
4	1585.320	23.14	-21.81	1.33	19.44	-103.41	-85.3	18.11	AVG	V
5	1592.269	22.27	-21.76	0.51	19.44	-104.23	-85.3	18.93	AVG	V
6	1601.751	22.42	-21.69	0.73	19.44	-104.01	-85.3	18.71	AVG	V

Note: 1. The frequency, which started from 18 GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

2. Test distance is 1m.

6. PEAK EMISSIONS WITHIN A 50MHZ BANDWIDTH

LIMITS

Please refer to FCC §15.517 (e)

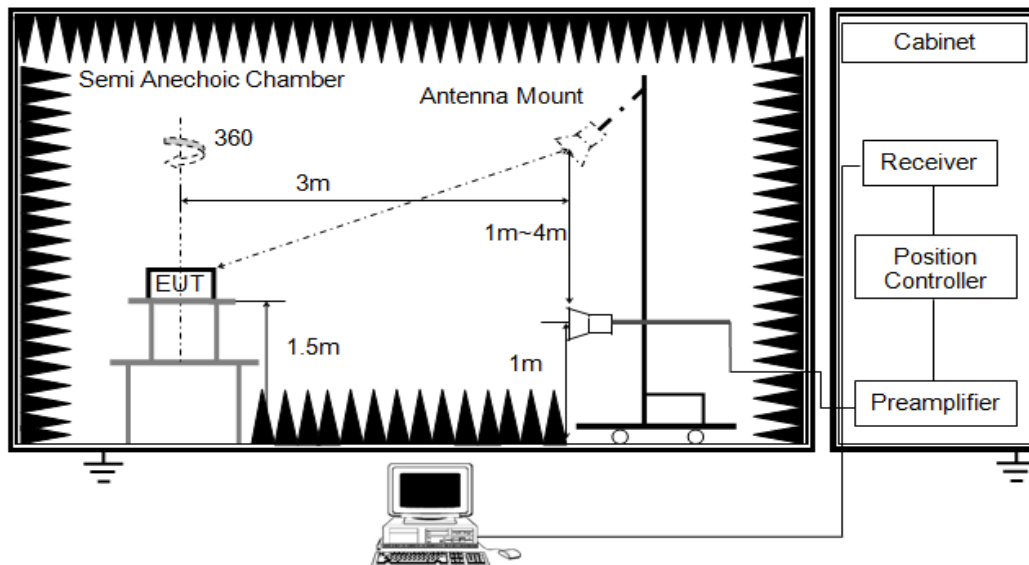
There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, fM. That limit is 0 dBm EIRP. It is acceptable to employ a different resolution bandwidth, and a correspondingly different peak emission limit,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

According to FCC §15.521 (g)

When a peak measurement is required, it is acceptable to use a resolution bandwidth other than the 50 MHz specified in this subpart. This resolution bandwidth shall not be lower than 1 MHz or greater than 50 MHz, and the measurement shall be centered on the frequency at which the highest radiated emission occurs, fM. If a resolution bandwidth other than 50 MHz is employed, the peak EIRP limit shall be $20 \log (RBW/50)$ dBm where RBW is the resolution bandwidth in megahertz that is employed. This may be converted to a peak field strength level at 3 meters using $E(\text{dBuV/m}) = P(\text{dBm EIRP}) + 95.2$.

When the test RBW = 1MHz, the 0 dBm EIRP limit should be $0 + 20 \log (1/50) = -33.98\text{dBm}$

TEST SETUP AND PROCEDURE



1). The EUT was powered ON and placed on a 1.5m high table in a semi-anechoic chamber.

- 2). Adjust the settings of the Universal Radio Communication Tester to set the EUT to its maximum power at the required channel.
- 3). Set the spectrum analyzer to the channel frequency. Set the analyzer to measure peak hold with the required settings.
- 4). The disturbance of the transmitter was maximized on the test receiver display by raising and lowering from 1m to 4m the receive antenna and by rotating through 360° the turntable. After the fundamental emission was maximized, a field strength measurement was made.
4. The EUT was set 1 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. This may be converted to a peak field strength level at 3 meters using $E(\text{dBuV/m}) = P(\text{dBm EIRP}) + 95.2$.
7. The spectral characterization of a UWB device shall begin with a peak-detected radiated measurement because the results obtained from this measurement could preclude the need for subsequent average measurements. For example, if the data collected from the peak-power measurement show that the radiated emissions levels are equal to, or less than, the applicable emissions limit, then these data are adequate to determine compliance. This is predicated on the fact that the average levels are always less than, or equal to, the peak signal level.

The peak detector of the instrument is selected and the maximum hold feature activated. The RBW is set to 1 MHz and the VBW is set to at least 1 MHz (3 MHz is recommended).

8. It is acceptable to employ an RBW of less than 50 MHz (but no less than 1 MHz) when performing the required peak power measurements. When this approach is employed, the peak emissions EIRP limit (0 dBm / 50 MHz) is converted to a limit commensurate with the RBW by employing a $[20 \log (\text{RBW}/50 \text{ MHz})]$ relationship. For example, the peak power limit could be expressed in a 1 MHz bandwidth as follows in Equation (28):

$$\text{EIRP}_{1\text{ MHz}} = \text{EIRP}_{50\text{ MHz}} + 20 \log (1 \text{ MHz}/50 \text{ MHz}) = 0 \text{ dBm} + (-34 \text{ dB}) = -34 \text{ dBm}$$

When a resolution bandwidth of less than 50 MHz is used, this measurement shall be performed over a 50 MHz span centered on the frequency associated with the highest detected average emission level.

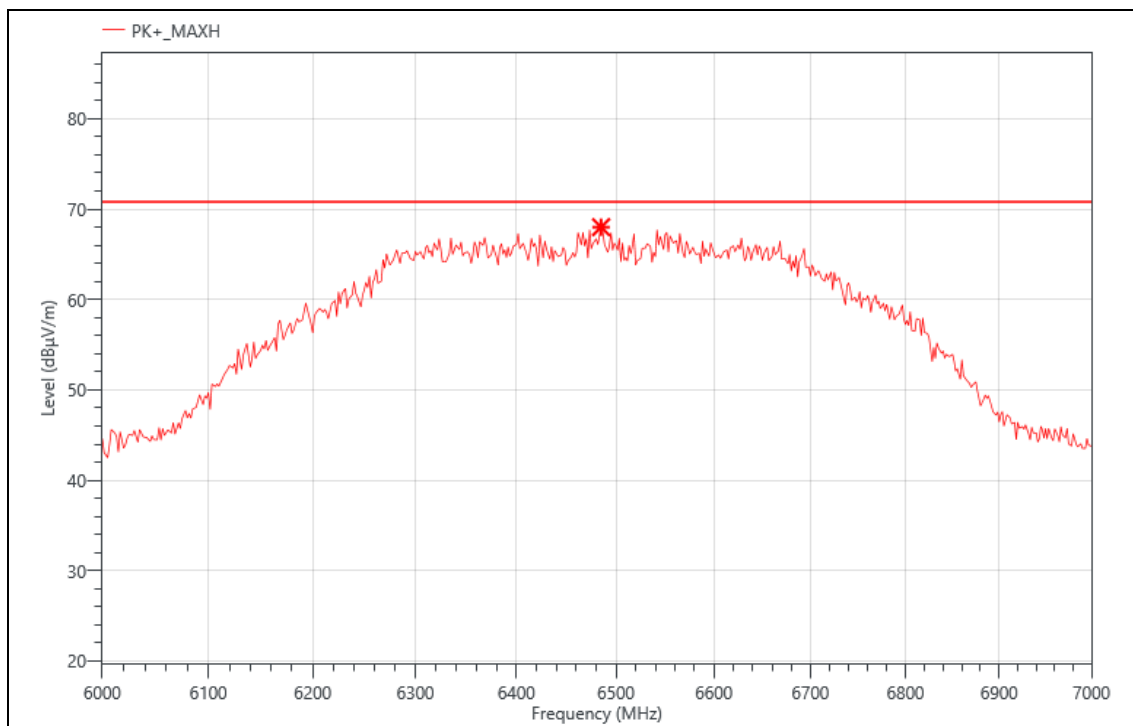
TEST ENVIRONMENT

Temperature	243.9°C	Relative Humidity	53%
Atmosphere Pressure	101kPa	Test Voltage	DC 3V

RESULTS

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

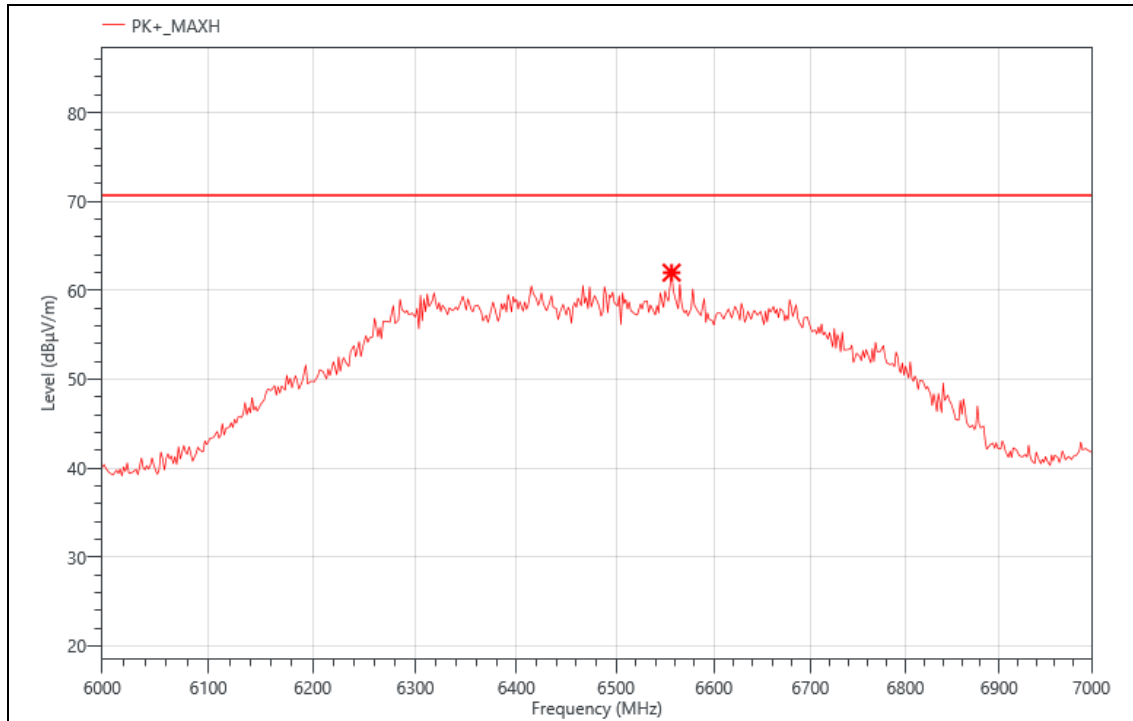
Test Standard	FCC UWB 6 – 7GHz @ 1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-RX	6 – 7GHz	PK+	1 MHz	Auto

**Critical_Freqs**

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	6485.000	76.52	-8.51	68.01	70.74	2.73	PK+	H

Mode:	UWB
Power:	DC 3V
TE:	Berny
Date	2025/09/03
T/A/P	23.9°C/53%/101Kpa

Test Standard	FCC UWB 6 – 7GHz @ 1m				
Instrument	Device	Band	Detector	RBW	Time
FSV	Ant-3117-RX	6 – 7GHz	PK+	1 MHz	Auto



Critical_Freqs

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.
1	6556.667	70.04	-8.05	61.99	70.74	8.75	PK+	V

Note:

- 68.01 dBμV/m is 1m Test Results.
- $68.01 \text{ dBμV/m} - 20 \cdot \log(3/1) = 68.01 - 9.54 = 58.47 \text{ dBμV/m@ 3m}$
- $58.47 \text{ dBμV/m} - 95.2 = -36.73 \text{ dBm/1Mhz}$, $-36.73 \text{ dBm/1Mhz} + 34 = -2.73 \text{ dBm/50MHz}$.
Limit is 0dBm/50MHz

$$E(\text{dBμV/m})@3\text{m} = P(\text{dBm EIRP}) + 95.2$$

$$E(\text{dBμV/m})@1\text{m} = E(\text{dBμV/m})@3\text{m} + 20 \cdot \log(3/1)$$

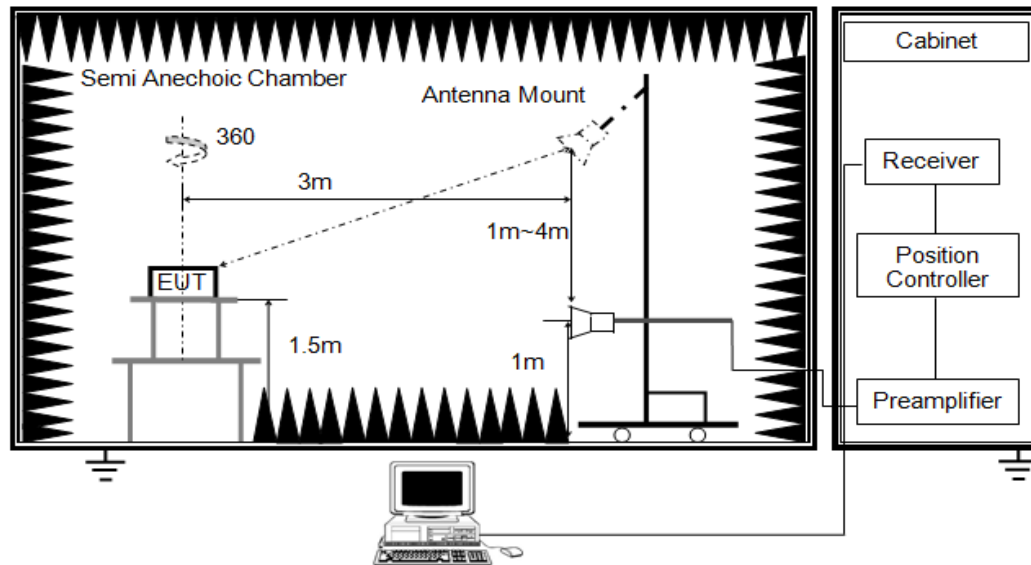
7. 10dBc UWB BANDWIDTH

LIMITS

The UWB bandwidth of a UWB system operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.

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.

TEST SETUP AND PROCEDURE



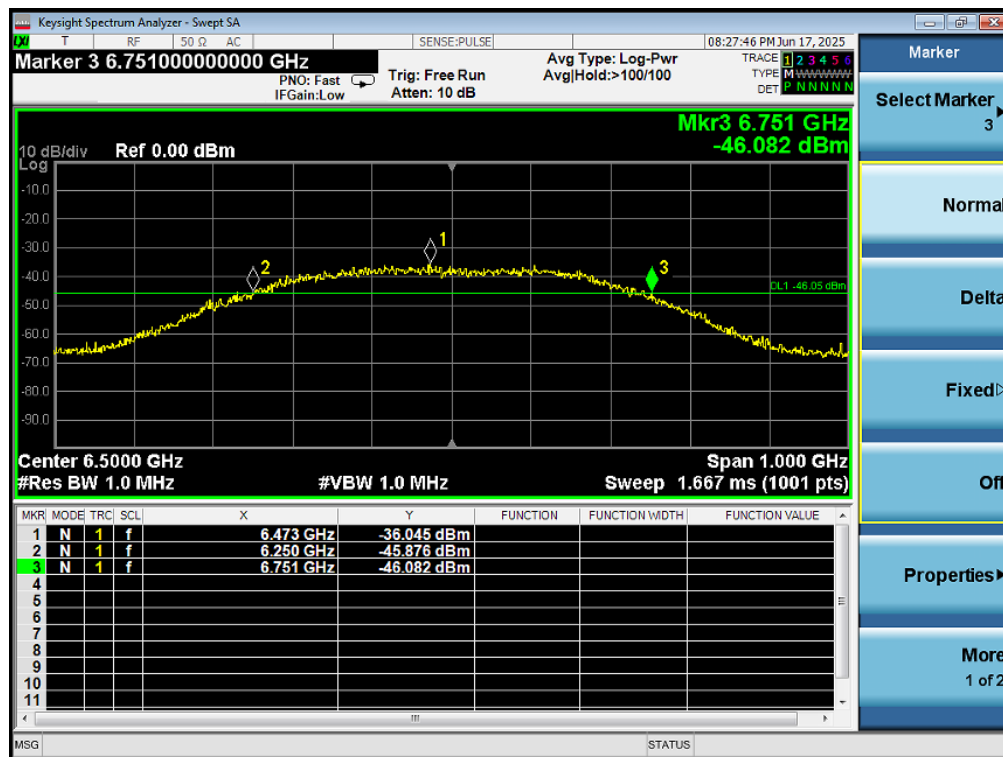
- For the lowest frequency bound f_L , the emission is searched from a frequency lower than f_M that has, by inspection, a peak power much lower than 10 dB less than the power at f_M and increased toward f_M until the peak power indicates 10 dB less than the power at f_M . The frequency of that segment is recorded.
- This process is repeated for the highest frequency bound f_H , beginning at a frequency higher than f_M that has, by inspection, a peak power much lower than 10 dB below the power at f_M . The frequency of that segment is recorded.
- The two recorded frequencies represent the highest f_H and lowest f_L bounds of the UWB transmission, and the -10 dB bandwidth (B_{-10}) is defined as $(f_H - f_L)$.⁸² The center frequency (f_c) is mathematically determined from $(f_H + f_L) / 2$.
- The fractional bandwidth is defined as $2(f_H - f_L) / (f_H + f_L)$.
- Determine whether the -10 dB bandwidth $(f_H - f_L)$ is ≥ 500 MHz, or whether the fractional bandwidth $2(f_H - f_L) / (f_H + f_L)$ is ≥ 0.2 .

TEST ENVIRONMENT

Temperature	24.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa	Test Voltage	DC 3V

RESULTS

Test Channel	f_M (MHz)	f_L (MHz)	f_H (MHz)	-10dB Bandwidth (MHz)	f_c (MHz)	Limit	Result
CH5	6500	6250	6751	501	6500.5	-10dB Bandwidth≥500MHz	Pass

CH 5

8. Transmission Time

APPLICABLE REQUIREMENTS

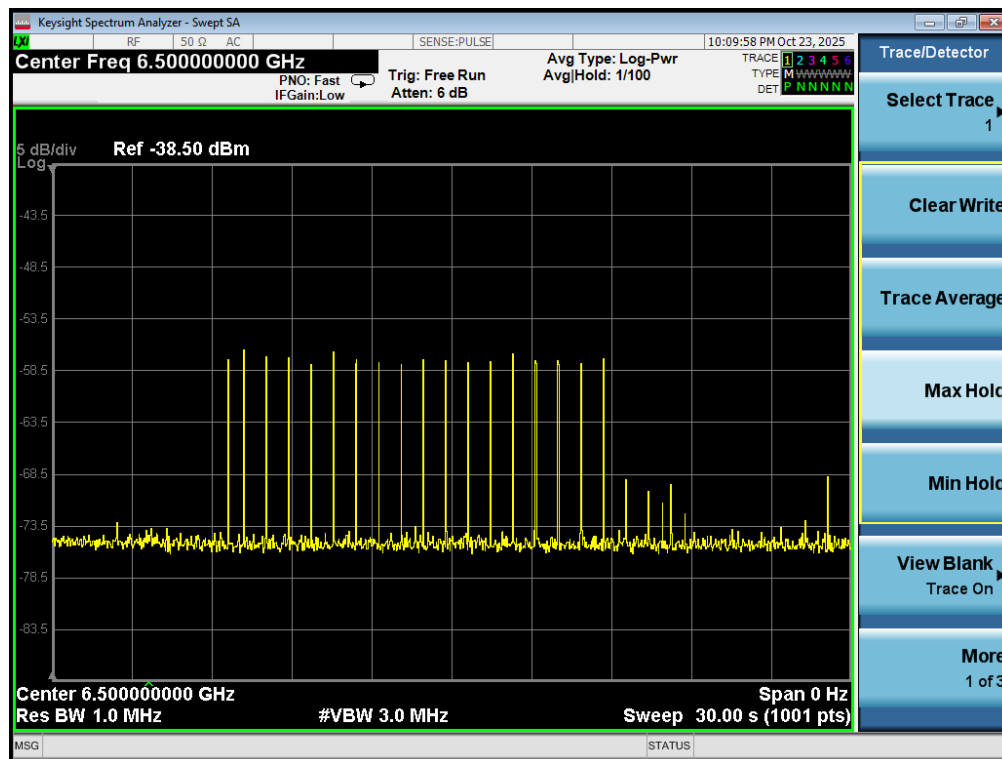
FCC Rule: 15.517(a)(5)

A communication system shall transmit only when the intentional radiator is sending information to an associated receiver.

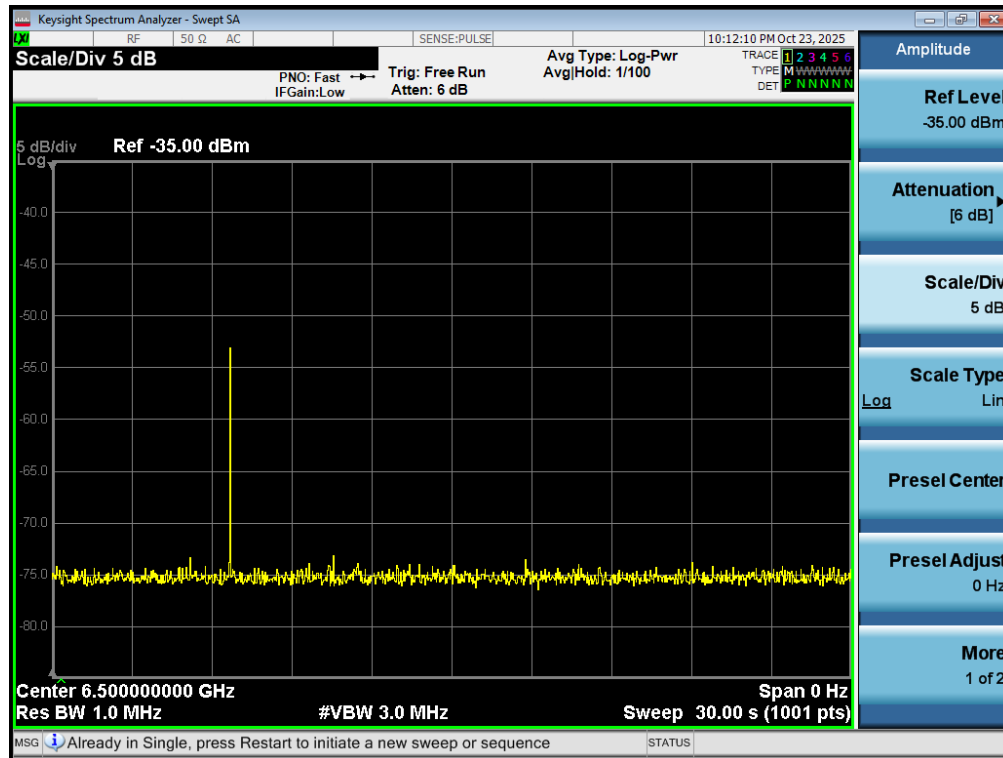
TEST ENVIRONMENT

Temperature	24.1°C	Relative Humidity	51%
Atmosphere Pressure	101kPa	Test Voltage	DC 3V

RESULTS



Transmission time, TAG ON - Beacon was turned OFF after 5 transmit



Transmission time, TAG ON - Beacon OFF

9. ANTENNA REQUIREMENTS

APPLICABLE REQUIREMENTS

Please refer to FCC §15.203, ISSED RSS-Gen Clause 6.3

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.

RESULTS

Complies

END OF REPORT