



FCC LISTED, REGISTRATION
NUMBER: 2764.01

ISED LISTED REGISTRATION
NUMBER: 23595-1

Test report No:
5767ERM.002A3

Test report

USA FCC 15.517, 15.207, 15.209

RF Measurement of Ultra-Wideband (UWB) devices operating within the band 3100 MHz and 10600 MHz.

CANADA RSS-220: Devices Using Ultra-Wideband (UWB) Technology

RSS-Gen: General Requirements for Compliance of Radio Apparatus

(*) Identification of item tested	Digital IoT Sleep Devices
(*) Trademark	Hatch
(*) Model and /or type reference	HA25
(*) Derived model not tested	--
Other identification of the product	FCC ID: 2AFYZ-HA25 IC: 23920-HA25 HVIN: HA25
(*) Features	BT, BLE, UWB, Wi-Fi 2.4GHz
Manufacturer	Hatch Baby, Inc. 3790 El Camino Real #627 Palo Alto, CA 94306
Test method requested, standard	USA FCC Part 15.517 (02-25-2026) Technical requirements for indoor UWB systems USA FCC Part 15.207 (02-25-2026) Edition: Conducted limits; general requirements USA FCC Part 15.209 (02-25-2026) Edition: Radiated emission limits; general requirements. CANADA RSS-220 Issue 1, amendment 1 (July 2018). CANADA RSS-Gen Issue 5 (April 2018)/A1 (March 2019)/A2 (Feb 2021). ANSI C63.10-2020/Cor1-2023+C63.10a-2024+Errata to C63.10a-2024: American National Standard for Testing Unlicensed Wireless Devices.
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager 
Date of issue	2026-06-24
Report template No	FDT08_25 (*) "Data provided by the client"

Digitally signed by Domingo Galvez
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Competences and guarantees

DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the **Certificate 2764.01** and **CAB ID US0215**

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA Certification Inc. has a calibration and maintenance program for its measurement equipment.

DEKRA Certification Inc. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Certification Inc. at the time of performance of the test.

DEKRA Certification Inc. is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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1. This report is only referred to the item that has undergone the test.
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Uncertainty

Uncertainty (factor $k=2$) was calculated according to the DEKRA Certification internal document PODT000.

Frequency (MHz)	U ($k=2$)	Units
30-180	3.82	dB
180-1000	2.61	dB
1000-18000	2.92	dB
18000-40000	2.15	dB

Data provided by the client

The following data has been provided by the client:

1. Information relating to the description of the sample ("Identification of the item tested", "Trademark", "Model and/or type reference tested").
2. The sample consist of a Digital IoT Sleep Devices with features including: BT, BLE, UWB, WiFi 2.4GHz.

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

Usage of samples

Samples used for the test have been selected by: The client.

The sample(s) is composed of the following elements, accessories and auxiliary equipment:

Id	Control Number	Description	Model	Serial N°	Date Reception	of	Application
S/01	5767/03	Hatch Restore 3.5	HA25	A2SEVT3011	2026-02-26		Element Under Test
S/01	5767/04	Hatch Restore 3.5 Power adapter	LACW030	-	2026-02-26		Accessory
S/01	5530/06	Tag Connect to Ethernet	-	-	2025-12-18		Accessory
S/01	5530/08	Ethernet to PC Connector Box	-	-	2025-12-18		Accessory

Notes referenced to samples during the project:

Id	Note
S/01	Sample S/01, was used for the following test(s): All the tests indicated in appendix A

Test sample description

Test Sample description (compulsory information for EMC and RF testing services)

Ports..... :	Port name and description		Cable				
			Specified max length [m]	Attached during test	Shielded	Coupled to patient ⁽³⁾	
	N/A			[]	[]	[]	
				[]	[]	[]	
				[]	[]	[]	
				[]	[]	[]	
				[]	[]	[]	
Supplementary information to the ports..... :	-						
Rated power supply	Voltage and Frequency		Reference poles				
			L1	L2	L3	N	PE
	[x]	AC: 100-240Vac; 0.85A; 50/60Hz	[]	[]	[]	[]	[]
	[]	AC:	[]	[]	[]	[]	[]
	[x]	DC24Vdc, 1.5A					
[]	DC:						
Rated Power	No Data Provided						
Clock frequencies.....	No Data Provided						
Other parameters	No Data Provided						
Software version	No Data Provided						
Hardware version	No Data Provided						
Dimensions in cm (W x H x D)	No Data Provided						
Mounting position	[X]	Table top equipment					
	[]	Wall/Ceiling mounted equipment					
	[]	Floor standing equipment					
	[]	Hand-held equipment					
	[]	Other: Cluster in the car with separate antennas built into the cockpit of vehicle					
Modules/parts..... :	Module/parts of test item		Type		Manufacturer		
	N/A						
							
							
							
Accessories (not part of the test item)	Description		Type		Manufacturer		
							
							
							
Documents as provided by the applicant..... :	Description		File name		Issue date		
	Declaration Equipment Data		FDT30		2026-03-15		
							
							
							

⁽³⁾ Only for Medical Equipment

Identification of the client

Hatch Baby, Inc.
790 El Camino Real #627
Palo Alto, CA 94306

Testing period and place

Test Location	DEKRA Certification Inc. 405 Glenn Dr. Suite 12, Sterling, VA 20164 United States of America.
Date (start)	2026-03-06
Date (finish)	2026-03-20

Document history

Report number	Date	Description
5767ERM.002	2026-04-24	First release
5767ERM.002A1	2026-05-12	Second release. HVIN was updated on page 1. This modified test report cancels and replaces the test report 5767ERM.002.
5767ERM.002A2	2026-06-17	Third release. The standard information has been updated on the cover page, the summary and in the Appendix A test cases. The RE test results table on page 21 has been updated. This modified test report cancels and replaces the test report 5767ERM.002A1.
5767ERM.002A3	2026-06-24	Fourth release. The correct version of the ANSI document is updated in the summary on page 8. This modified test report cancels and replaces the test report 5767ERM.002A2.

Environmental conditions

In the control chamber, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860mbar Max. = 1060mbar

In the semi anechoic chamber, the following limits were not exceeded during the test.

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860mbar Max. = 1060mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

Temperature	Min. = 15 °C Max. = 35 °C
Relative humidity	Min. = 30 % Max. = 60 %
Air pressure	Min. = 860mbar Max. = 1060mbar

Remarks and comments

The tests have been performed by the technical personnel: Yuqi Wang, and Yuri Barone.

Testing verdicts

Fail	F
Inconclusive	I
Not applicable	N/A
Not measured	N/M
Pass	P
Partial Passed	P*

Summary

FCC PART 15.517 / 15.207 / RSS-220			
Requirement	Test case	Verdict	Remark
FCC15.207	Conducted Emissions	P	Refer 1
FCC 15.517	Radiated Emission	P	Refer 1
FCC 15.517	Radiated Emission in GPS band	P	Refer 1
FCC 15.517	10 dB Bandwidth	P	Refer 1
FCC 15.517	Peak level of Emission	P	Refer 1
<u>Supplementary information and remarks:</u>			
1. The test set-up was made in accordance to the general provisions of ANSI C63.10-2020/Cor1-2023+C63.10a-2024+Errata to C63.10a-2024: American National Standard for Testing Unlicensed Wireless Devices.			

List of equipment used during the test

FCC 47 CFR Part 15.517

Test Equipment for RE

Control Num	Equipment	Manufacturer	Serial	Model	Next calibration
01010	ESR7 EMI TEST RECEIVER	RHODE & SCHWARZ	101790	ESR7	2027-04-11
01014	FSV40 SIGNAL ANALYZER 40GHZ	RHODE & SCHWARZ	101626	FSV40	2026-11-18
01056	3116C DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA (18-40GHz)	ETS LINDGREN	00213179	3116C	2026-04-23
01057	3115 DOUBLE-RIDGED WAVEGUIDE HORN ANTENNA (750 MHz-18 GHz)	ETS LINDGREN	00211373	3115	2026-07-18
01065	3142E BICONILOG ANTENNA	ETS LINDGREN	00208587	3142E	2028-02-03
01108	ETHERNET SNMP THERMOMETER	HW GROUP	60038026954	HWg-STE Plain	2028-11-18
01111	ETHERNET SNMP THERMOMETER	HW GROUP	60038026577	HWg-STE Plain	2028-11-18
01179	SEMI-ANECHOIC CHAMBER	FRANKONIA	F169021	SAC 3plus 'L'	---
01213	CONTROL ROOM	FRANKONIA	F169021-1	CR	---
01314	WIRELESS MEASUREMENT SOFTWARE R&S EMC32	RHODE & SCHWARZ	1040-OT102236	---	---
01461	LOW NOISE PREAMPLIFIER	BONN ELEKTRONIK	2213857B	BLMA0118-4A	2026-06-06
01472	ETHERNET SNMP THERMOMETER	HW GROUP	60038038794	HWg-STE Plain	2028-11-18
01473	ETHERNET SNMP THERMOMETER	HW GROUP	60038038777	HWg-STE Plain	2028-11-18
01481	SEMI-ANECHOIC CHAMBER	FRANKONIA	-	SAC-3 Square L	---
01564	CONTROL ROOM 2	FRANKONIA	F219025-1	CR	---
01566	FRANKONIA TRANSPARENT RF SQUARE TEST TABLE	FRANKONIA	RFSqtab01	RF Sq table	---
01567	FRANKONIA TRANSPARENT RF SQUARE TEST TABLE	FRANKONIA	RFSqtab02	RF Sq table	---

Test Equipment for CE

Control Num	Equipment	Manufacturer	Serial	Model	Next calibration
01073	PULSE LIMITER	NARDA	111WX70503	PMM PL01	2027-02-21
01082	LINE IMPEDANCE STABILIZATION NETWORK	NARDA	233WT60911	PMM L3-32	2027-02-20
01110	ETHERNET SNMP THERMOMETER	HW GROUP	60038026956	HWg-STE Plain	2028-11-18
01215	MONITOR ROOM	FRANKONIA	F169021-3	MR	---
01216	TEST TABLE (RED COLOR)	NA	Not Appl.	N/A	---
01314	WIRELESS MEASUREMENT SOFTWARE R&S EMC32	RHODE & SCHWARZ	1040-OT102236	---	---
01374	ESR7 EMI TEST RECEIVER	ROHDE & SCHWARZ	102390	ESR7	2026-06-05

Test Equipment for RF Conducted

Control Num	Equipment	Manufacturer	Serial	Model	Next calibration
01474	ETHERNET SNMP THERMOMETER	HW GROUP	60038038766	HWg-STE Plain	2025-10-24
01313	WIRELESS MEASUREMENT SOFTWARE R&S WMS32	RHODE & SCHWARZ	---	---	---
01569	SHIELDED CHAMBER - 2	FRANKONIA	F219025-3	RF Lab - 2	---
01374	ESR7 EMI TEST RECEIVER	ROHDE & SCHWARZ	102390	ESR7	2026-06-05

Appendix A: Test results

Appendix A

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Product information

The following information is provided by the client

Information	Description
Modulation	Pulsed Tx with pseudo random bi-phase
Operating Frequency	7.5 GHz
RF output Power	< 6.3 dBm (peak), < -14 DBm (average)
Operating Voltage range	24 VDC
Channel bandwidth	1.4 GHZ bandwidth (-10 dB)
Antenna gain	7.8 dBi
Type of Antenna	PCB antenna

Description of test conditions

Test conditions	Description
TC#01	<u>Power supply (V):</u> V_{nominal} = 24 VDC <u>Modulation:</u> Pulsed TX with pseudo random bi-phase <u>Test Frequency band / range:</u> 7.49 – 8.45 GHz

TEST A.1: CONDUCTED EMISSION

LIMITS:

Product standard:

Part 15 Subpart C §15.207(a) / RSS-Gen Secs 8.8

LIMITS

FCC:

Frequency range (MHz)	Limit (dBμV)	
	Quasi-Peak	Average
0,15 to 0,5	66 – 56 ⁽¹⁾	56 – 46 ⁽¹⁾
0,5 to 5	56	46
5 to 30	60	50

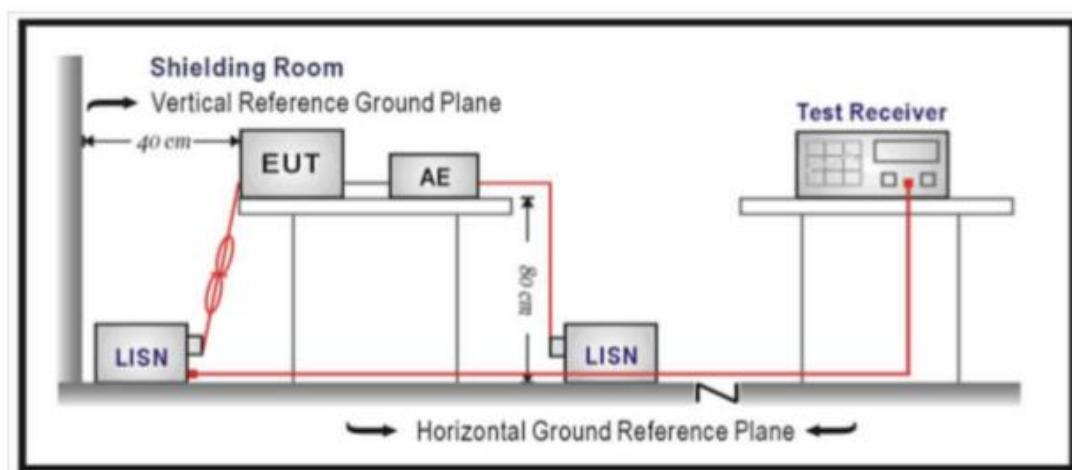
(1) The limit decreases with the logarithm of the frequency

RSS-Gen:

Frequency range (MHz)	Limit (dBμV) ⁽¹⁾	
	Quasi-Peak	Average
0,15 to 0,5	66 – 56 ⁽¹⁾	56 – 46 ⁽¹⁾
0,5 to 5	56	46
5 to 30	60	50

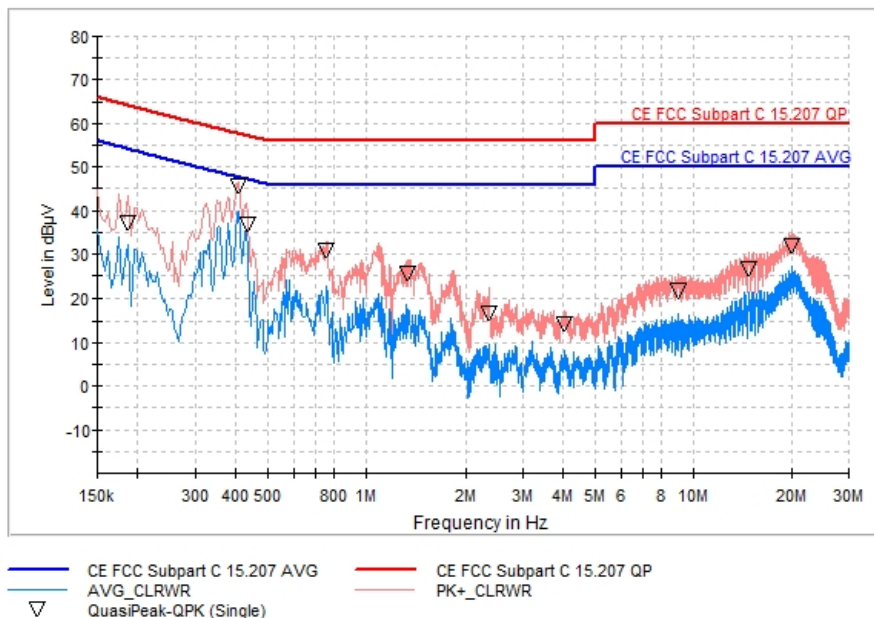
(1) At the transition frequency, the lower limit applies

TEST SETUP:



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01
TEST RESULTS:	PASS

Description: EUT powered by AC/DC adapter 24VAC, L1 wire



Limit and Margin QPK

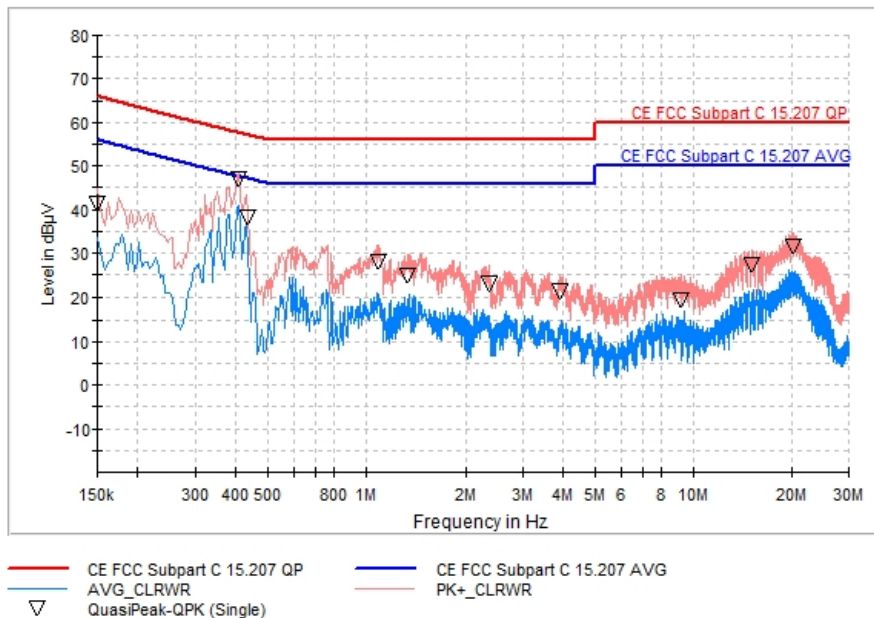
Frequency (MHz)	QuasiPeak (dBμV)	Line	Margin - QPK (dB)	Limit - QPK (dBμV)
0.186000	37.0	L1	27.1	64.1
0.406000	45.6	L1	12.1	57.6
0.434000	36.6	L1	20.5	57.1
0.758000	30.6	L1	25.4	56.0
1.338000	25.5	L1	30.5	56.0
2.358000	16.5	L1	39.5	56.0
4.030000	14.0	L1	42.0	56.0
8.994000	21.5	L1	38.5	60.0
14.822000	26.5	L1	33.5	60.0
20.150000	31.9	L1	28.1	60.0

Limit and Margin AVG

Frequency (MHz)	AVG_CLRWR (dBμV)	Line	Margin - AVG (dB)	Limit - AVG (dBμV)
0.186000	32.0	L1	22.0	54.1
0.406000	40.0	L1	7.6	47.6
0.434000	30.5	L1	16.5	47.1
0.758000	22.5	L1	23.5	46.0
1.338000	17.1	L1	28.9	46.0
2.358000	9.6	L1	36.4	46.0
4.030000	8.1	L1	37.9	46.0
8.994000	16.6	L1	33.4	50.0
14.822000	20.0	L1	30.0	50.0
20.150000	25.7	L1	24.3	50.0

TEST RESULTS (Cont.)

Description: EUT powered by AC/DC adapter 24VAC, N wire



Limit and Margin QPK

Frequency (MHz)	QuasiPeak (dBμV)	Line	Margin - QPK (dB)	Limit - QPK (dBμV)
0.150000	41.2	N	24.8	66.0
0.406000	47.0	N	10.6	57.6
0.434000	38.1	N	19.0	57.1
1.098000	27.9	N	28.1	56.0
1.350000	24.8	N	31.2	56.0
2.358000	22.9	N	33.2	56.0
3.910000	21.2	N	34.8	56.0
9.162000	19.4	N	40.6	60.0
15.166000	27.0	N	33.0	60.0
20.218000	31.3	N	28.7	60.0

Limit and Margin AVG

Frequency (MHz)	AVG_CLRWR (dBμV)	Line	Margin - AVG (dB)	Limit - AVG (dBμV)
0.150000	33.6	N	22.4	56.0
0.406000	41.0	N	6.6	47.6
0.434000	30.8	N	16.2	47.1
1.098000	20.8	N	25.2	46.0
1.350000	18.2	N	27.8	46.0
2.358000	13.1	N	32.9	46.0
3.910000	13.7	N	32.3	46.0
9.162000	8.1	N	41.9	50.0
15.166000	20.2	N	29.8	50.0
20.218000	23.5	N	26.5	50.0

TEST A.2: RADIATED EMISSION

LIMITS:

Product standard:

Part 15 Subpart C §15.209(a) / Part 15 Subpart C §15.517(c) /
RSS-220

LIMITS

FCC:

Frequency Range (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
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 ⁽¹⁾	40	3
88 - 216	150 ⁽¹⁾	43.5	3
216 - 960	200 ⁽¹⁾	46	3
Above 960	500	54	3

Note 1: The lower limit shall apply at the transition frequency.

Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the close point of any part of the device or system.

Note 3: E field strength (dBμV/m) = 20 log E field strength (μV/m)

Note 4: E field strength (dBμV/m) = EIRP (dBm) + 95.2

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:

Fundamental frequency (MHz)	EIRP in dBm
960-1610	-75.3
1610-1990	-63.3
1990-3100	-61.3
3100-10600	-41.3
Above 10600	-61.3

RSS-220:

Section 3.4 Radiated emissions at or below 960 MHz for all subclasses of UWB device shall not exceed the following limits. Measurements of radiated emissions at and below 960 MHz are to be made using a CISPR quasi-peak detector. CISPR measurement bandwidth specifications are to be used.

LIMITS:

Frequency (MHz)	Field Strength (Microvolts/m)	Measurement Distance (Metres)	E.i.r.p. (dBmW)
0.009-0.490	2,400/F (F in kHz)	300	10 log (17.28 / F ²) (F in kHz)
0.490-1.705	24,000/F (F in kHz)	30	10 log (17.28 / F ²) (F in kHz)
1.705-30	30	30	-45.7
30-88	100	3	-55.2
88-216	150	3	-51.7
216-960	200	3	-49.2

Note: The emission limits for the bands 9-90 kHz and 110-490 kHz are based on measurements employing an average emissions detector

Section 5.3.1 (d) Radiated emissions above 960 MHz from a device shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz.

Fundamental frequency (MHz)	EIRP in a Resolution Bandwidth of 1 MHz
960-1610	-75.3
1610-4750	-70.0
4750 -10600	-41.3
Above 10600	-61.3

TEST SETUP:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 3 m for the frequency range 30-960 MHz (Bilog antenna), at 1m for the frequency range 960 MHz -18 GHz (Double ridge horn antennas) and at 0.5 m for the frequency range 18 GHz- 40 GHz (Double ridge horn antennas).

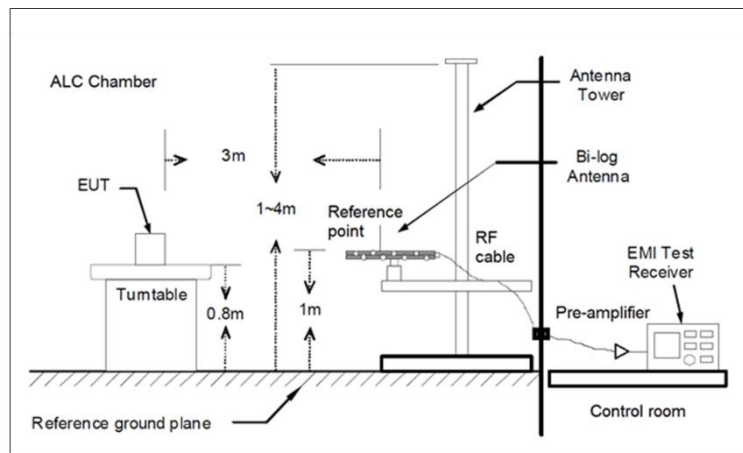
For radiated emissions in the range 960 MHz – 40 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

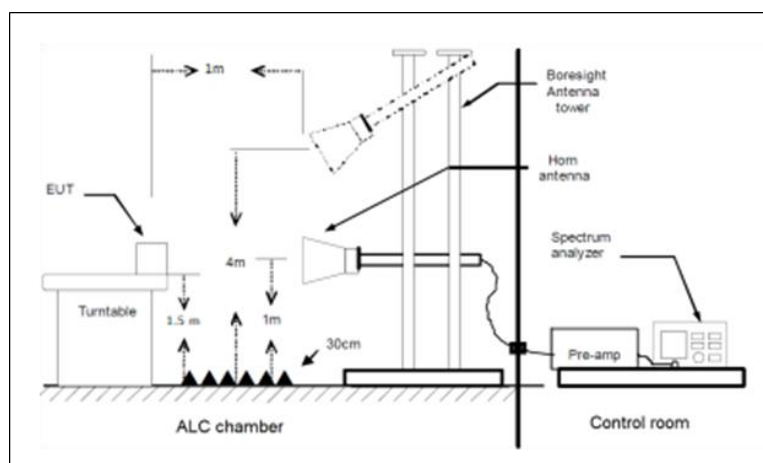
Measurements were made in both horizontal and vertical planes of polarization.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain

Radiated measurements Setup 30 MHz to 960 MHz



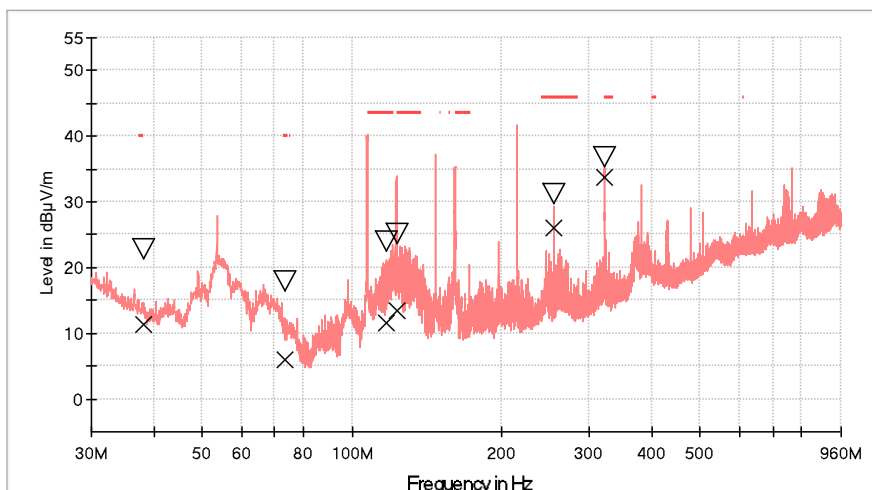
Radiated measurements setup f > 960 MHz



FREQUENCY RANGE

30 - 960 MHz

RF_FCC_15.247_E Field_30MHz_1GHz_SAC2



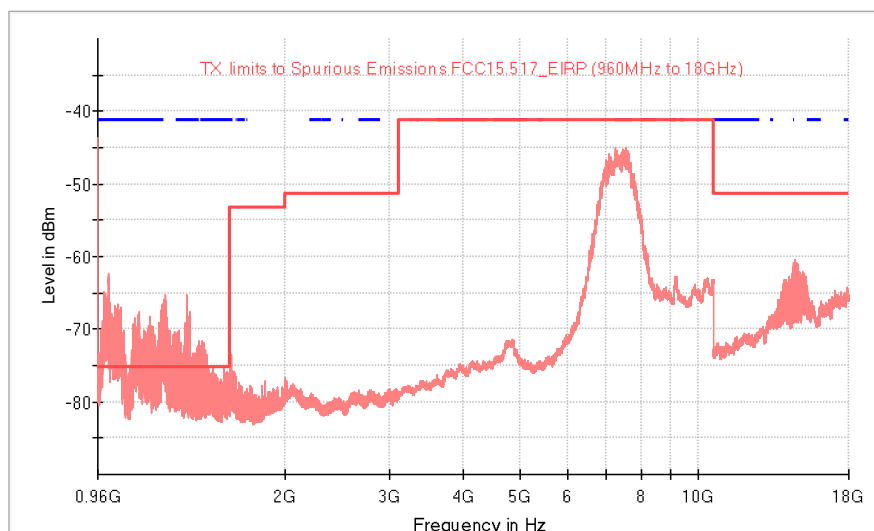
— TX limits to Spurious Emission FCC15.517 (30MHz to 960MHz)
— PK+_MAXH
v MaxPeak-PK+ (Single)
x QuasiPeak-QPK (Single)

Limit and Margin

Frequency (MHz)	MaxPeak (dBµV/m)	QuasiPeak (dBµV/m)	Pol	Margin - QPK (dB)	Limit - QPK (dBµV/m)
38.245000	22.9	11.4	H	28.6	40.0
73.213500	18.0	6.0	H	34.0	40.0
117.251500	24.0	11.5	H	32.0	43.5
123.071500	25.1	13.3	H	30.2	43.5
254.118500	31.2	26.1	H	19.9	46.0
322.018500	36.8	33.7	V	12.3	46.0

FREQUENCY RANGE

960 MHz – 18 GHz



— RMS_MAXH
— TX limits to Spurious Emission FCC15.209(1-26G) Restricted Bands AVG Limit_EIRP
— TX limits to Spurious Emissions FCC15.517_EIRP (960MHz to 18GHz)

Limit and Margin

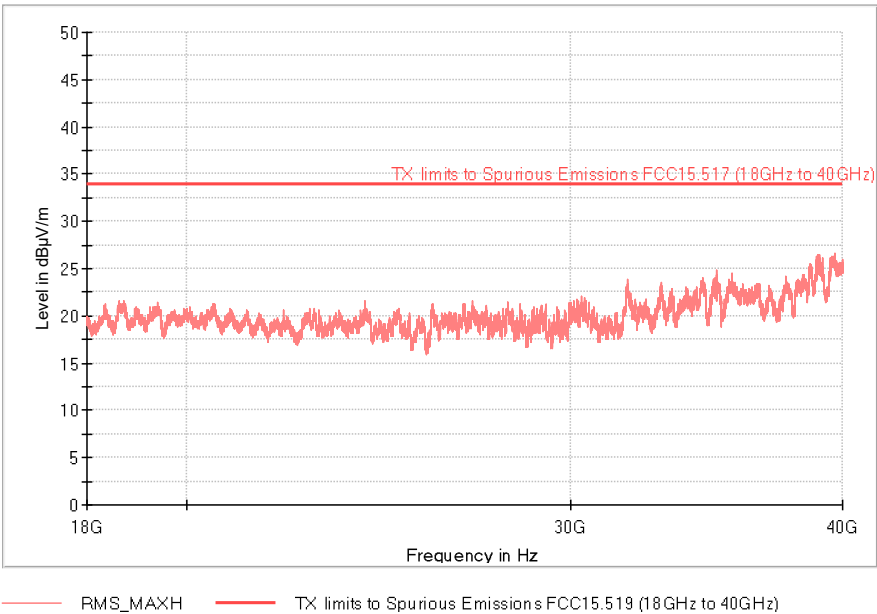
Frequency (MHz)	RMS_MAXH (dBμV/m)	Pol	Margin - RMS (dBμV/m)	Limit - RMS (dBμV/m)	Comment
998.653750	32.9	H	-13.0	19.9	In compliance with FCC 15.209 limit
1249.234375	29.8	H	-9.9	19.9	
1359.711875	29.9	H	-10.0	19.9	
7255.000000	50.3	H	3.6	53.9	Fundamental
9163.750000	32.3	H	21.6	53.9	
14597.850000	34.8	H	9.1	43.9	2nd Harmonic

Note 1: For emissions below 1.6 GHz, the observed signals are identified as digital noise (unintentional radiator emissions). Therefore, these emissions are evaluated against the general radiated emission limits specified in 47 CFR §15.209, rather than the UWB-specific limits defined in 47 CFR §15.517.

Note 2: The measured and limit values presented in this table have been converted from dBm (EIRP) to dBμV/m.

FREQUENCY RANGE

18 GHz – 40 GHz



Limit and Margin

Frequency (MHz)	RMS_MAXH (dBµV/m)	Pol	Margin - RMS (dBµV/m)	Limit - RMS (dBµV/m)
18635.250000	21.7	V	12.2	33.9
31868.250000	23.8	H	10.1	33.9
39663.812500	26.6	V	7.3	33.9

TEST A.3: RADIATED EMISSION IN GPS BAND

LIMITS:

Product standard:

Part 15 Subpart F § 15.517 (d) /
RSS-220

LIMITS

FCC: In addition to the radiated emission limits specified in the table in paragraph (c) 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:

Fundamental Frequency (MHz)	EIRP in dBm
1164-1240	-85.3
1559-1610	-85.3

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Section 5.3.1 (e) In addition to the limits specified in paragraph (d) of this section, radiated emissions shall not exceed the following average limits when measured using a resolution bandwidth greater than or equal to 1 kHz. The measurements shall demonstrate compliance with the stated limits at whatever resolution bandwidth is used.

Fundamental Frequency (MHz)	EIRP in a Resolution Bandwidth of no less than 1 kHz (dBm)
1164-1240	-85.3
1559-1610	-85.3

TEST SETUP:

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna is situated at 1 m for the frequency range 960 MHz - 18 GHz (1-18 GHz Double ridge horn antenna).

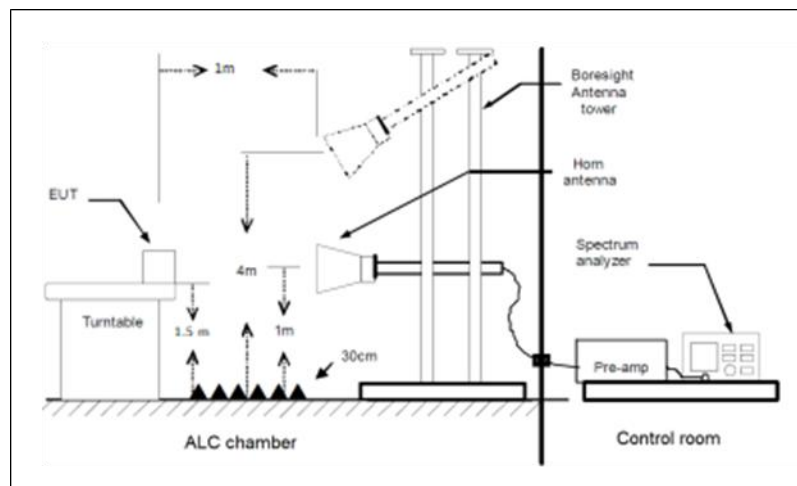
For radiated emissions in the range 960 MHz - 18 GHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 20 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

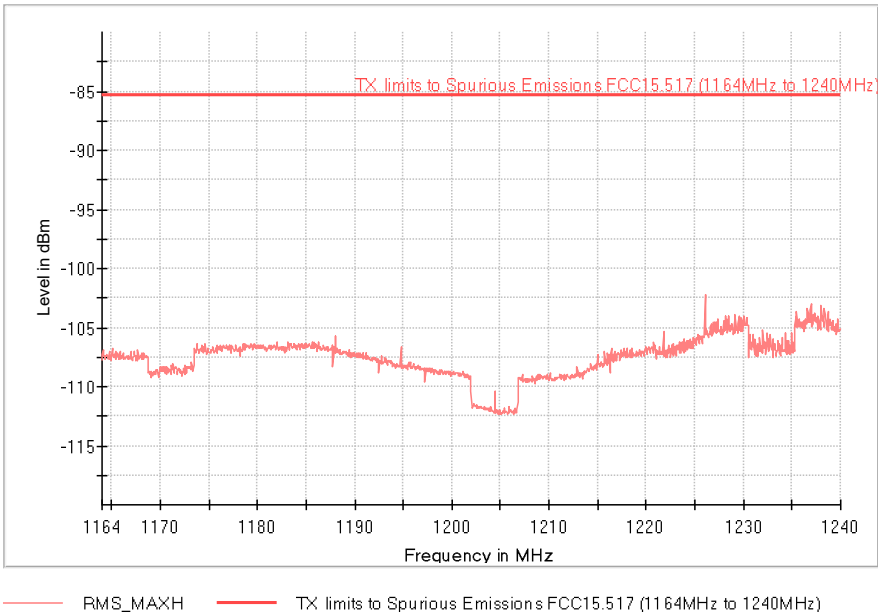
Measurements were made in both horizontal and vertical planes of polarization.

The field strength is calculated by adding correction factor to the measured level from the spectrum analyzer. This correction factor includes antenna factor, cable loss and pre-amplifiers gain

Radiated measurements setup $f > 960$ MHz



TESTED RESULTS:	S/03
TESTED CONDITIONS MODES:	TC#01
TEST RESULTS (Cont.)	PASS
FREQUENCY RANGE	1164 MHz – 1240 MHz

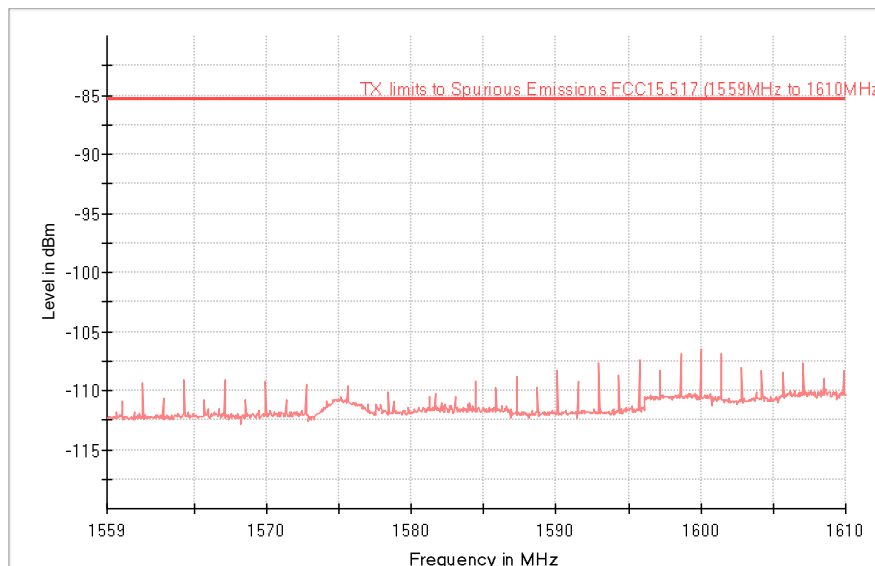


Limit and Margin

Frequency (MHz)	RMS_MAXH (dBm)	Pol	Margin - RMS (dBm)	Limit - RMS (dBm)
1187.987500	-105.8	H	20.5	-85.3
1194.732500	-106.6	H	21.3	-85.3
1226.035000	-102.2	H	16.9	-85.3

FREQUENCY RANGE

1159 MHz –1610 MHz



— RMS_MAXH — TX limits to Spurious Emissions FCC15.517 (1559MHz to 1610MHz)

Limit and Margin

Frequency (MHz)	RMS_MAXH (dBm)	Pol	Margin - RMS (dBm)	Limit - RMS (dBm)
1569.965000	-109.3	H	24.0	-85.3
1592.957500	-107.7	V	22.4	-85.3
1600.012500	-106.5	V	21.2	-85.3

TEST A.4: 10 dB BANDWIDTH

LIMITS:

Product standard:

Part 15 Subpart F § 15.503 (a), § 15.517(b)
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LIMITS

FCC

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

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A UWB device is an intentional radiator that has either a -10 dB bandwidth of at least 500 MHz or a -10 dB fractional bandwidth greater than 0.2

TESTED SAMPLES:

S/01

TESTED CONDITIONS MODES:

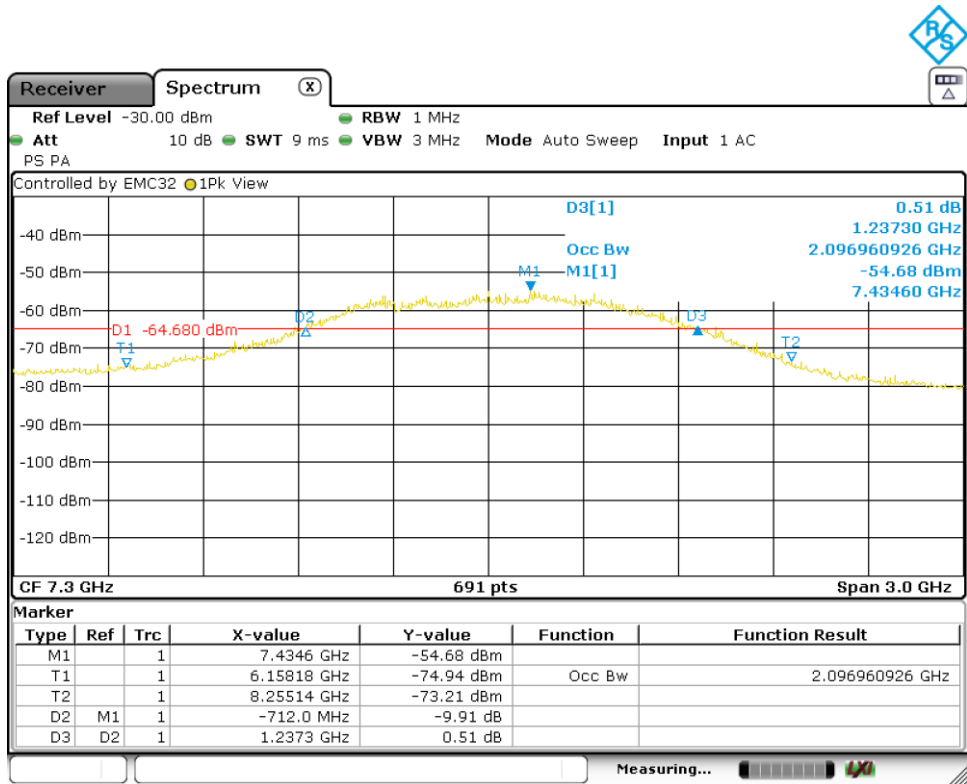
TC#01

TEST RESULTS:

PASS

Frequency (MHz)	Lower Frequency (MHz)	Upper Frequency (MHz)	10 dB Bandwidth (MHz)	Limit (MHz)		Result
				Lower Frequency	Upper Frequency	
7.3	6722.60	7959.9	1237.3	3100	10600	Pass

TEST RESULTS (Cont.)



Date: 6.MAR.2026 18:13:01

TEST A.5: PEAK LEVEL OF THE EMISSION

LIMITS:

Product standard:

Part 15 Subpart F § 15.517(e), § 15.521(g), and RSS 220 Clause 5.3(g)
RSS-220 Annex, Section 4 (c)

LIMITS

FCC

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.

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, f_m . 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 $E \text{ (dB}\mu\text{V/m)} = P \text{ (dBm EIRP)} + 95.2$.

Note: The RBW = 10 MHz, so the RBW correction is $20 \log (10/50) = -14.0$ dB.

Limit in dB μ V/m @RBW 10 MHz = $0 + 95.2 - 14.0 = 81.2$ dB μ V/m - This value is shown in the plot below.

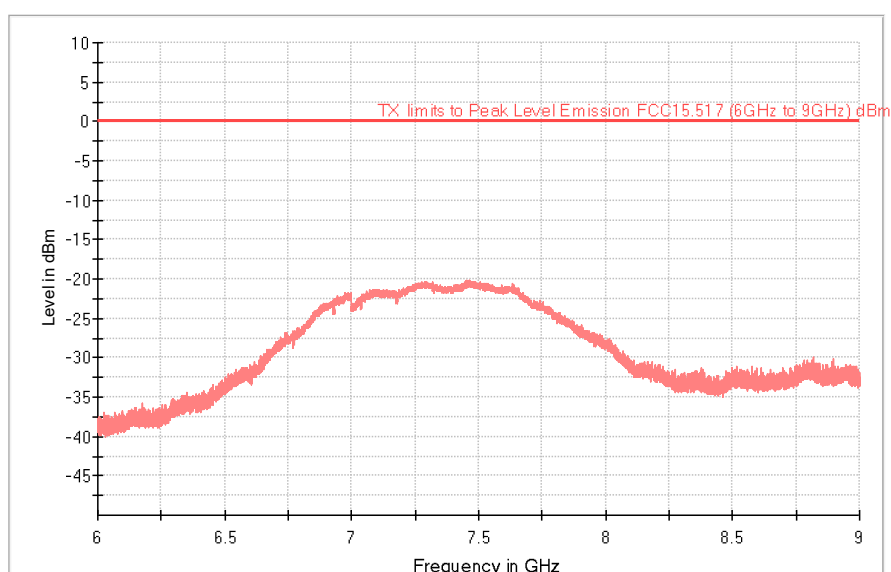
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Annex, Section 4 (c) Peak measurements shall be made in addition to average measurements. Transmissions shall not exceed 0 dBm e.i.r.p. in any 50 MHz bandwidth when the average limit is -41.3 dBm/MHz.

Section 5.3.1 (d) Radiated emissions above 960 MHz from a device shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz

TESTED SAMPLES:	S/03
TESTED CONDITIONS MODES:	TC#01
TEST RESULTS:	PASS
FREQUENCY RANGE	7 GHz – 9 GHz z axis

Plot shows below represents worst case of DUT Orientation



PK+_MAXH TX limits to Peak Level Emission FCC15.517 (6GHz to 9GHz) dBm

Limit and Margin

Frequency (MHz)	PK+_MAXH (dBm)	Pol	Margin - PK+ (dBm)	Limit - PK+ (dBm)
7453.406250	-20.2	H	20.2	0.0