



FCC RADIO TEST REPORT

FCC ID : A4RG0F3Y
Equipment : Wireless Device
Model Name : G0F3Y
Applicant : Google LLC
1600 Amphitheatre Parkway,
Mountain View, CA, 94043 USA
Standard : 47 CFR FCC Part 15.519

The product was received on Jan. 26, 2026, and testing was performed from Mar. 01, 2026 to Mar. 12, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FR5O3007J	01	Initial issue of report	Mar. 30, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1	15.203	Antenna Requirement	PASS	15.203
3.1	15.207	AC Power-line Conducted Emissions	PASS	15.207
3.2	15.503	UWB Bandwidth	PASS	≥ 500MHz
3.3	15.519(a)(1)	Technical requirements for Hand Held UWB systems	PASS	15.519(a)(1)
3.4	15.519(e)	Peak Power Measurement	PASS	≤ 0 dBm/50MHz
3.5	15.519(c) /15.519(d)	Radiated Emissions	PASS	UWB Emissions: 15.519(c) GPS Emissions: 15.519(d) Digital Emissions: 15.209

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Yun Huang

Report Producer: Julia Chang

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature
General Specs LTE/NTN, Bluetooth, Bluetooth-LE, Bluetooth-LE ASK, Bluetooth-LE GFSK, Wi-Fi 2.4GHz 802.11b/g/n/ac/ax, Wi-Fi 5GHz 802.11a/n/ac/ax, NFC, UWB, 60GHz and GNSS.
Antenna Type UWB: PIFA Antenna

Antenna information
6489.6 MHz Peak Gain (dBi) -0.1
7987.2 MHz Peak Gain (dBi) -0.7

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

EUT Information List	
S/N	Performed Test Item
5C251WRDQL13K4	Equivalent Isotropic Radiated Power
	Radiated Spurious Emission
5C261WRDQL13RY	Conducted Emission

1.2 Modification of EUT

No modifications are made to the EUT during all test items.

1.3 Type of EUT

Operational Condition
EUT Power Type AC mains: AC voltage 120 V
Type of EUT
☒ Stand-alone
☐ Combined (EUT where the radio part is fully integrated within another device) Combined Equipment - Brand Name / Model No.: ...
☐ Plug-in radio (EUT intended for a variety of host systems) Host System - Brand Name / Model No.: ...
☐ Other:

1.4 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2020 + Cor.1-2023
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark: The TAF code is not including all the FCC KDB listed without accreditation.

1.5 Testing Location Information

The test location is accredited based on TAF code 3786 designated by NCC (National Communication Commission).

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

Note: The test site complies with ANSI C63.4 2014 requirement.

1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Test Items	Uncertainty	Remark
AC Conduction (150kHz ~ 30MHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1000MHz)	6.50 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 6GHz)	4.70 dB	Confidence levels of 95%
Radiated Emission (6GHz ~ 18GHz)	5.70 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	5.20 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Mode

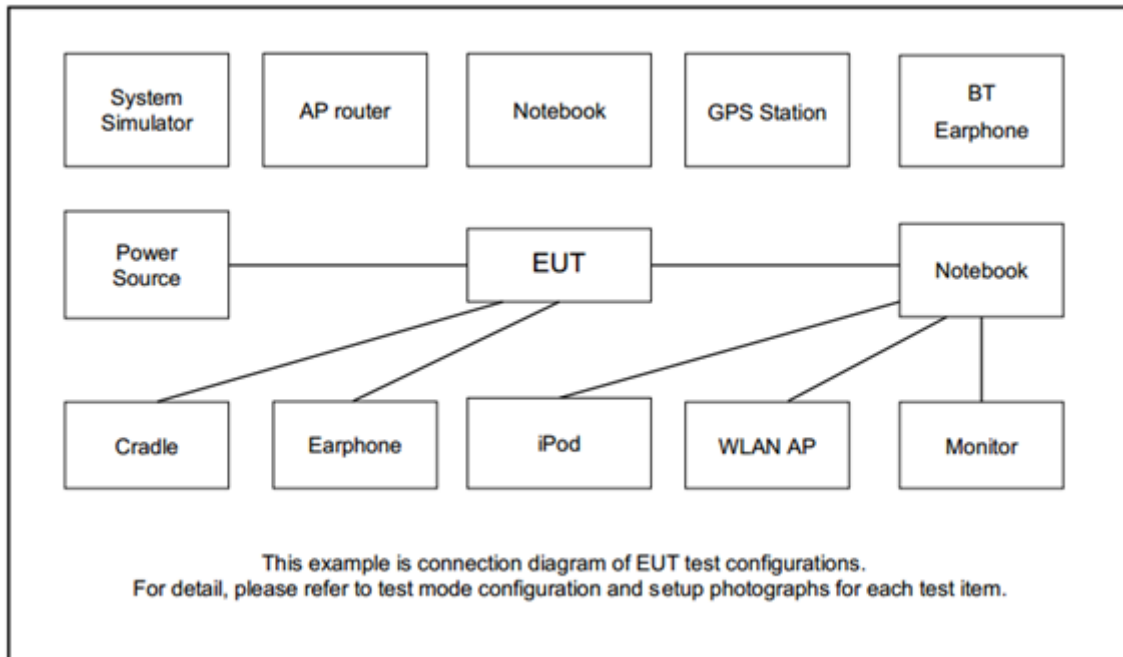
Test Configuration					
Config	Channel	Modulation	Config	STS Nums	Payload Length (bytes)
Mode 1	5	BPRF9	0	0	127
Mode 2	5	BPRF10	0	0	127
Mode 3	5	BPRF9	1	1	127
Mode 4	5	BPRF10	1	1	127
Mode 5	5	BPRF9	3	1	0
Mode 6	5	BPRF10	3	1	0
Mode 7	5	HPRF27	0	0	255
Mode 8	5	HPRF27	1	1	255
Mode 9	5	HPRF27	3	1	0
Mode 10	9	BPRF9	0	0	127
Mode 11	9	BPRF10	0	0	127
Mode 12	9	BPRF9	1	1	127
Mode 13	9	BPRF10	1	1	127
Mode 14	9	BPRF9	3	1	0
Mode 15	9	BPRF10	3	1	0
Mode 16	9	HPRF27	0	0	255
Mode 17	9	HPRF27	1	1	255
Mode 18	9	HPRF27	3	1	0

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	CTX
1	Adapter Mode
Remark: Please refer to 15.207 which states, "Measurements to demonstrate compliance with the conducted limits are not required for devices employ Battery for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines".	

The Worst Case Mode for Following Conformance Tests			
Tests Item	UWB Bandwidth, Peak Power Measurement, Radiated Emissions		
Test Condition	Radiated measurement		
Operating Mode	CTX		
1	Adapter Mode		
Mode 1 configuration was tested and found to be the worst case and measured during the test.			
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
CH05		V	
CH09			V
Remark: The measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and find as worst plane, and recorded in this report.			

2.3 Test Setup Diagram



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

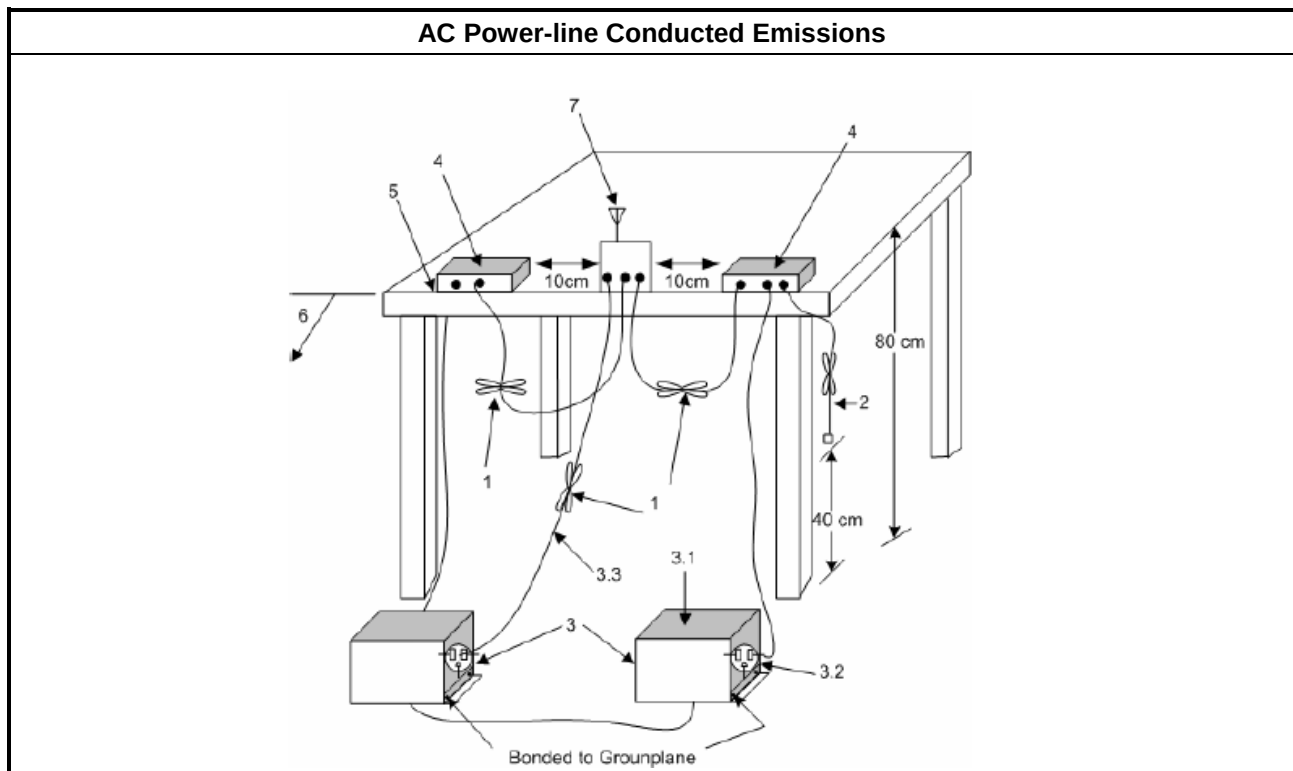
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method
■ Refer as ANSI C63.10-2020 + Cor.1-2023, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Test Result

Please refer to Appendix A.

3.2 UWB bandwidth

3.2.1 UWB bandwidth Limit

UWB bandwidth Limit
UWB bandwidth ≥ 500 MHz or Fractional bandwidth ≥ 0.2 ; Fractional bandwidth = $2(f_H - f_L) / (f_H + f_L)$

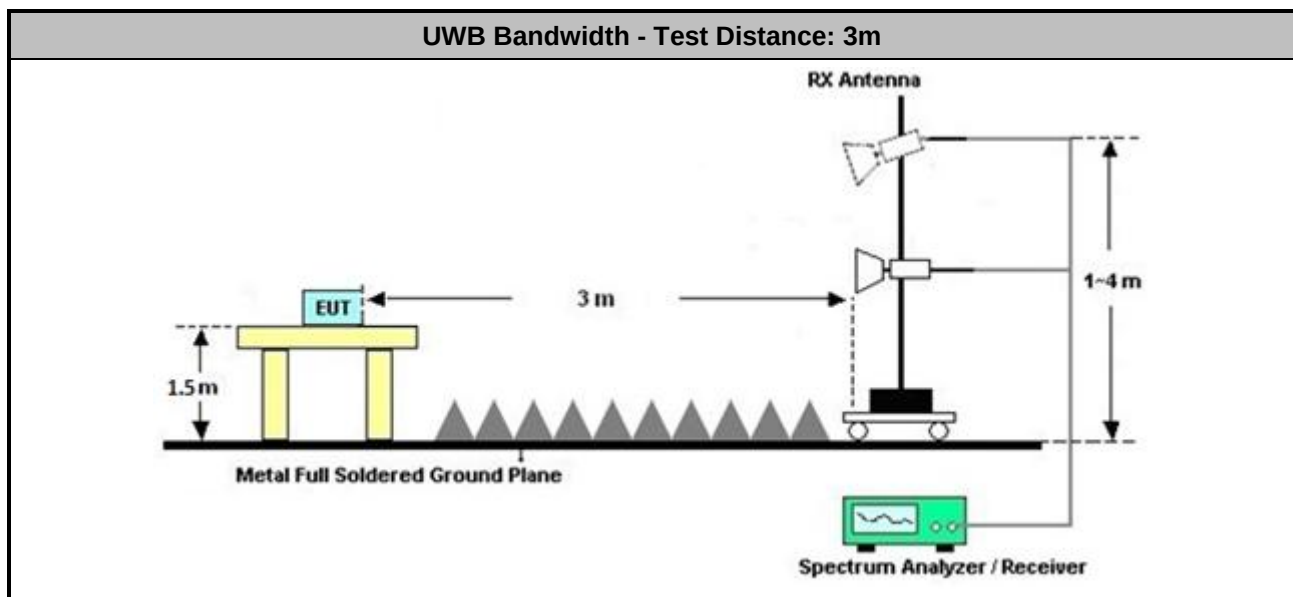
3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method
■ For the UWB bandwidth shall be measured using one of the options below:
■ Refer as ANSI C63.10, clause 6.9.2 and clause 10.1 for UWB bandwidth testing.

3.2.4 Test Setup



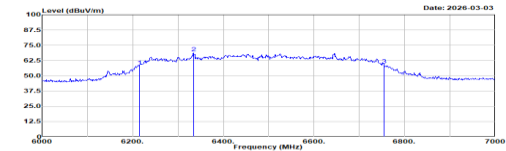
3.2.5 Test Result of UWB Bandwidth

Test mode	F _L (MHz)	F _H (MHz)	UWB Bandwidth (MHz)	Bandwidth limit (MHz)	Result	Pol [H/V]
1	6215	6755	540	≥ 500	Pass	H
2	6232	6734	502	≥ 500	Pass	H
3	6215	6762	547	≥ 500	Pass	H
4	6231	6735	504	≥ 500	Pass	H
5	6211	6762	551	≥ 500	Pass	H
6	6207	6771	564	≥ 500	Pass	H
7	6219	6756	537	≥ 500	Pass	H
8	6218	6760	542	≥ 500	Pass	H
9	6207	6761	554	≥ 500	Pass	H
10	7707	8254	547	≥ 500	Pass	V
11	7726	8233	507	≥ 500	Pass	V
12	7703	8262	559	≥ 500	Pass	V
13	7726	8244	518	≥ 500	Pass	V
14	7700	8261	561	≥ 500	Pass	V
15	7690	8270	580	≥ 500	Pass	V
16	7705	8258	553	≥ 500	Pass	V
17	7704	8258	554	≥ 500	Pass	V
18	7704	8270	566	≥ 500	Pass	V



UWB Bandwidth

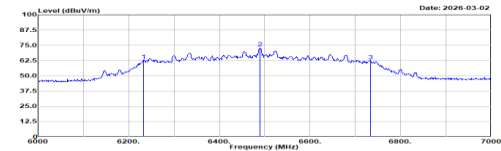
Mode 1



Site : 03CH20-HV
Condition : 3m HF-91280_92360_251185 Horizontal1
Project : RBU1000_000MHz_VNU1000_000Hz_Sut13.000sec
Detector : Peak
Channel : 05
Modulation : BPSK
Config : 0
STS Num : 0
Payload Length : 127
RFS Power : 0uW
Adaptive : 0uW
Calibration : 0uW

	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1	6215.00	57.80	-----	-----	47.17	34.26	14.13	37.76	0.00	--	--	Peak
2	6334.00	68.79	-----	-----	57.52	34.54	14.22	37.75	0.00	--	--	Peak
3	6755.00	58.76	-----	-----	45.91	35.81	14.85	37.82	0.00	--	--	Peak

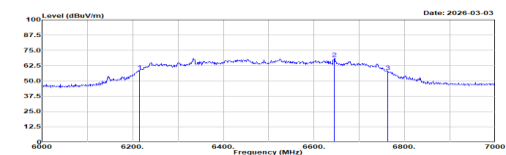
Mode 2



Site : 03CH20-HV
Condition : 3m HF-91280_92360_251185 Horizontal1
Project : RBU1000_000MHz_VNU1000_000Hz_Sut13.000sec
Detector : Peak
Channel : 05
Modulation : BPSK
Config : 0
STS Num : 0
Payload Length : 127
RFS Power : 0uW
Adaptive : 0uW
Calibration : 0uW

	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1	6232.00	62.46	-----	-----	51.24	34.33	14.15	37.76	0.00	--	--	Peak
2	6499.00	72.68	-----	-----	60.85	35.06	14.50	37.73	0.00	--	--	Peak
3	6734.00	62.35	-----	-----	49.50	35.83	14.83	37.81	0.00	--	--	Peak

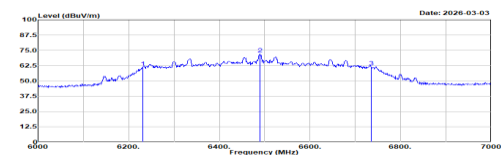
Mode 3



Site : 03CH20-HV
Condition : 3m HF-91280_92360_251185 Horizontal1
Project : RBU1000_000MHz_VNU1000_000Hz_Sut13.000sec
Detector : Peak
Channel : 05
Modulation : BPSK
Config : 1
STS Num : 1
Payload Length : 127
RFS Power : 0uW
Adaptive : 0uW
Calibration : 0uW

	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1	6215.00	58.25	-----	-----	47.58	34.26	14.13	37.76	0.00	--	--	Peak
2	6645.00	68.48	-----	-----	55.73	35.80	14.73	37.78	0.00	--	--	Peak
3	6762.00	57.91	-----	-----	45.84	35.82	14.87	37.82	0.00	--	--	Peak

Mode 4



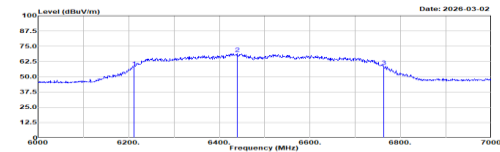
Site : 03CH20-HV
Condition : 3m HF-91280_92360_251185 Horizontal1
Project : RBU1000_000MHz_VNU1000_000Hz_Sut13.000sec
Detector : Peak
Channel : 05
Modulation : BPSK
Config : 1
STS Num : 1
Payload Length : 127
RFS Power : 0uW
Adaptive : 0uW
Calibration : 0uW

	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1	6231.00	61.16	-----	-----	50.45	34.32	14.15	37.76	0.00	--	--	Peak
2	6499.00	71.98	-----	-----	60.15	35.80	14.50	37.73	0.00	--	--	Peak
3	6733.00	61.59	-----	-----	48.73	35.83	14.84	37.81	0.00	--	--	Peak



UWB Bandwidth

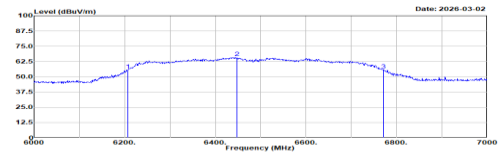
Mode 5



Site : 03CH20-NY
Condition : 3e HP 91280_02360_251185 Horizontal
Project : RBU1000.000kHz VHW1000.000kHz SWT13.000sec
Detector : 503007
Channel : 05
Modulation : BPSK10
Config : 3
STS Num : 1
Payload Length : 0
RFS Power : 0u14
Adaptive : 0u01
Calibration : 0u00

Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Hz	dBuV/m	dBuV/m	dB	dBuV	dBuV	dB	dB	Factor	Factor	Factor	Factor	
1 6211.00	57.76	-----	-----	47.16	34.24	14.12	37.76	0.00	--	--	Peak	
2 6439.00	58.43	-----	-----	57.64	34.88	14.43	37.74	0.00	--	--	Peak	
3 6762.00	58.43	-----	-----	45.56	35.82	14.87	37.82	0.00	--	--	Peak	

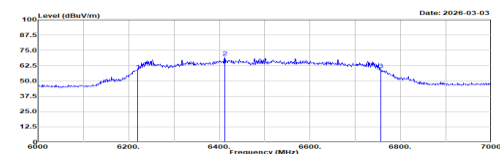
Mod 6



Site : 03CH20-NY
Condition : 3e HP 91280_02360_251185 Horizontal
Project : RBU1000.000kHz VHW1000.000kHz SWT13.000sec
Detector : 503007
Channel : 05
Modulation : BPSK10
Config : 3
STS Num : 1
Payload Length : 0
RFS Power : 0u14
Adaptive : 0u00
Calibration : 0u01

Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Hz	dBuV/m	dBuV/m	dB	dBuV	dBuV	dB	dB	Factor	Factor	Factor	Factor	
1 6287.00	55.42	-----	-----	44.83	34.23	14.12	37.76	0.00	--	--	Peak	
2 6468.00	55.78	-----	-----	54.11	34.90	14.43	37.74	0.00	--	--	Peak	
3 6771.00	55.56	-----	-----	42.67	35.84	14.88	37.83	0.00	--	--	Peak	

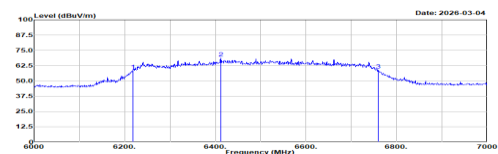
Mode 7



Site : 03CH20-NY
Condition : 3e HP 91280_02360_251185 Horizontal
Project : RBU1000.000kHz VHW1000.000kHz SWT13.000sec
Detector : 503007
Channel : 05
Modulation : BPSK27
Config : 1
STS Num : 1
Payload Length : 225
RFS Power : 0u14
Adaptive : 0u01
Calibration : 0u00

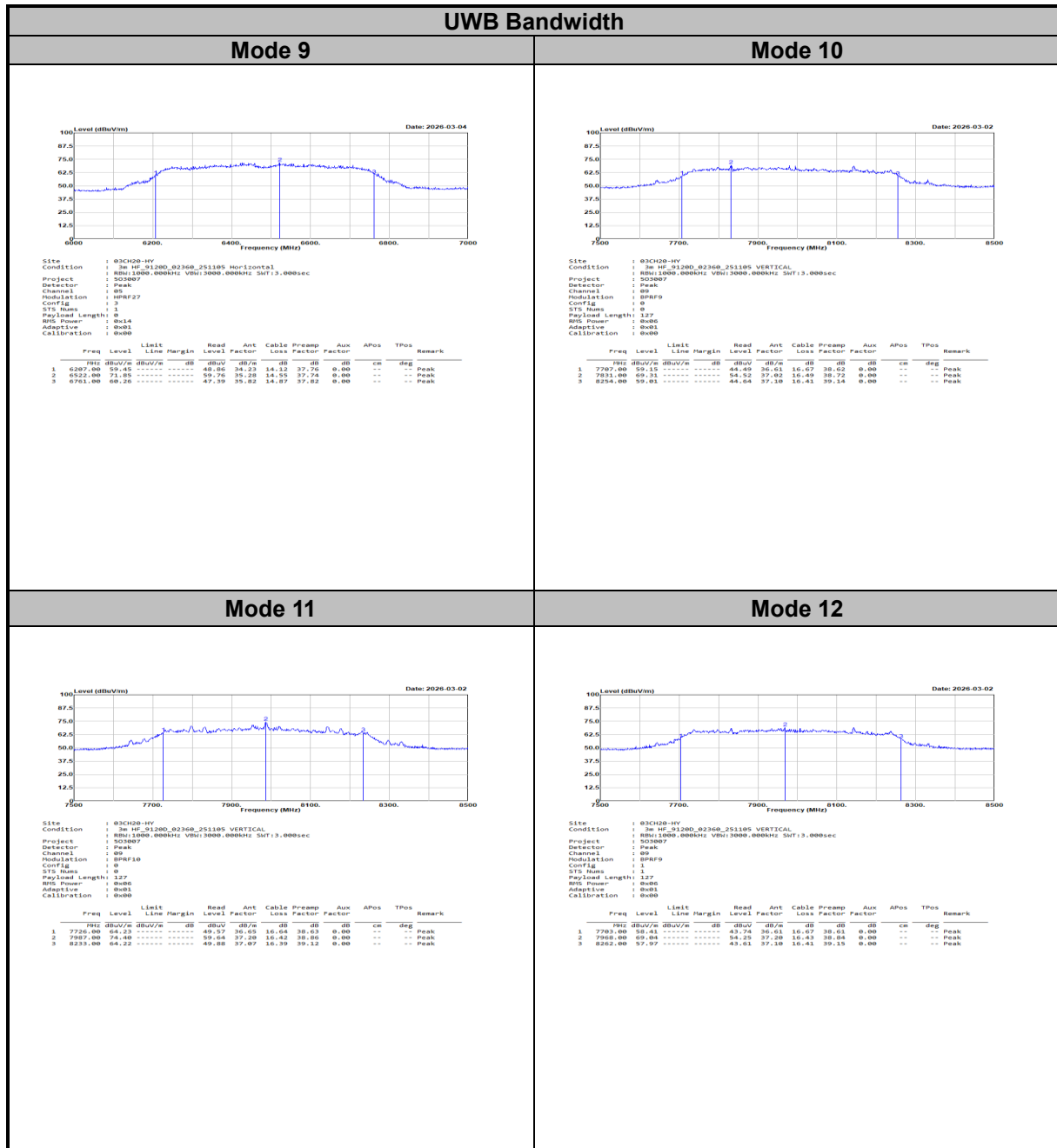
Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Hz	dBuV/m	dBuV/m	dB	dBuV	dBuV	dB	dB	Factor	Factor	Factor	Factor	
1 6219.00	58.44	-----	-----	47.78	34.28	14.13	37.76	0.00	--	--	Peak	
2 6412.00	59.23	-----	-----	57.88	34.82	14.37	37.74	0.00	--	--	Peak	
3 6760.00	59.17	-----	-----	46.52	35.81	14.86	37.82	0.00	--	--	Peak	

Mode 8



Site : 03CH20-NY
Condition : 3e HP 91280_02360_251185 Horizontal
Project : RBU1000.000kHz VHW1000.000kHz SWT13.000sec
Detector : 503007
Channel : 05
Modulation : BPSK27
Config : 1
STS Num : 1
Payload Length : 225
RFS Power : 0u14
Adaptive : 0u01
Calibration : 0u00

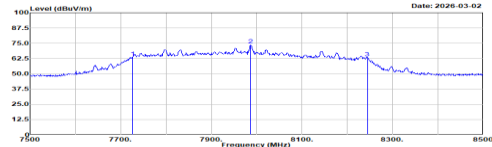
Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Hz	dBuV/m	dBuV/m	dB	dBuV	dBuV	dB	dB	Factor	Factor	Factor	Factor	
1 6219.00	58.52	-----	-----	47.88	34.27	14.13	37.76	0.00	--	--	Peak	
2 6412.00	58.91	-----	-----	57.26	34.82	14.37	37.74	0.00	--	--	Peak	
3 6760.00	58.75	-----	-----	45.87	35.82	14.86	37.82	0.00	--	--	Peak	





UWB Bandwidth

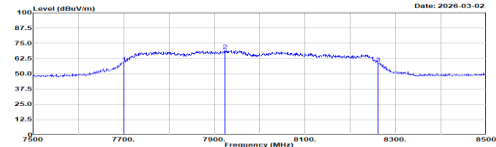
Mode 13



Site : 03CH20-HY
Condition : 3e HF-91280_92360_251185 VERTICAL
Project : 8501000_000MHz VNU10000_000MHz SUT:3.000sec
Detector : Peak
Channel : 00
Modulation : BPSK10
Config : 1
STS Num : 1
Payload Length : 127
RF Power : 0dB
Adaptive : 0dB
Calibration : 0dB

	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1	7725.00	63.40	-----	-----	48.74	36.65	16.64	38.63	0.00	--	--	Peak
2	7957.00	73.40	-----	-----	58.64	37.29	16.42	38.66	0.00	--	--	Peak
3	8244.00	63.18	-----	-----	48.82	37.09	16.40	39.13	0.00	--	--	Peak

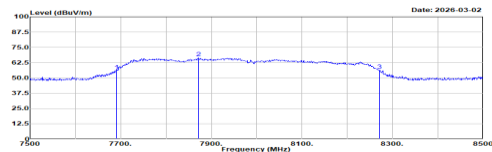
Mode 14



Site : 03CH20-HY
Condition : 3e HF-91280_92360_251185 VERTICAL
Project : 8501000_000MHz VNU10000_000MHz SUT:3.000sec
Detector : Peak
Channel : 00
Modulation : BPSK9
Config : 3
STS Num : 1
Payload Length : 0dB
RF Power : 0dB
Adaptive : 0dB
Calibration : 0dB

	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1	7700.00	58.93	-----	-----	44.26	36.68	16.68	38.61	0.00	--	--	Peak
2	7953.00	69.00	-----	-----	54.20	37.15	16.45	38.60	0.00	--	--	Peak
3	8261.00	58.58	-----	-----	44.22	37.10	16.41	39.15	0.00	--	--	Peak

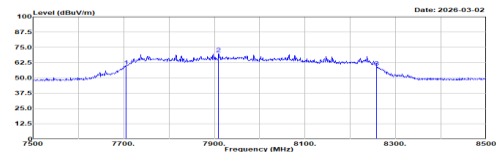
Mode 15



Site : 03CH20-HY
Condition : 3e HF-91280_92360_251185 VERTICAL
Project : 8501000_000MHz VNU10000_000MHz SUT:3.000sec
Detector : Peak
Channel : 00
Modulation : BPSK10
Config : 1
STS Num : 1
Payload Length : 0
RF Power : 0dB
Adaptive : 0dB
Calibration : 0dB

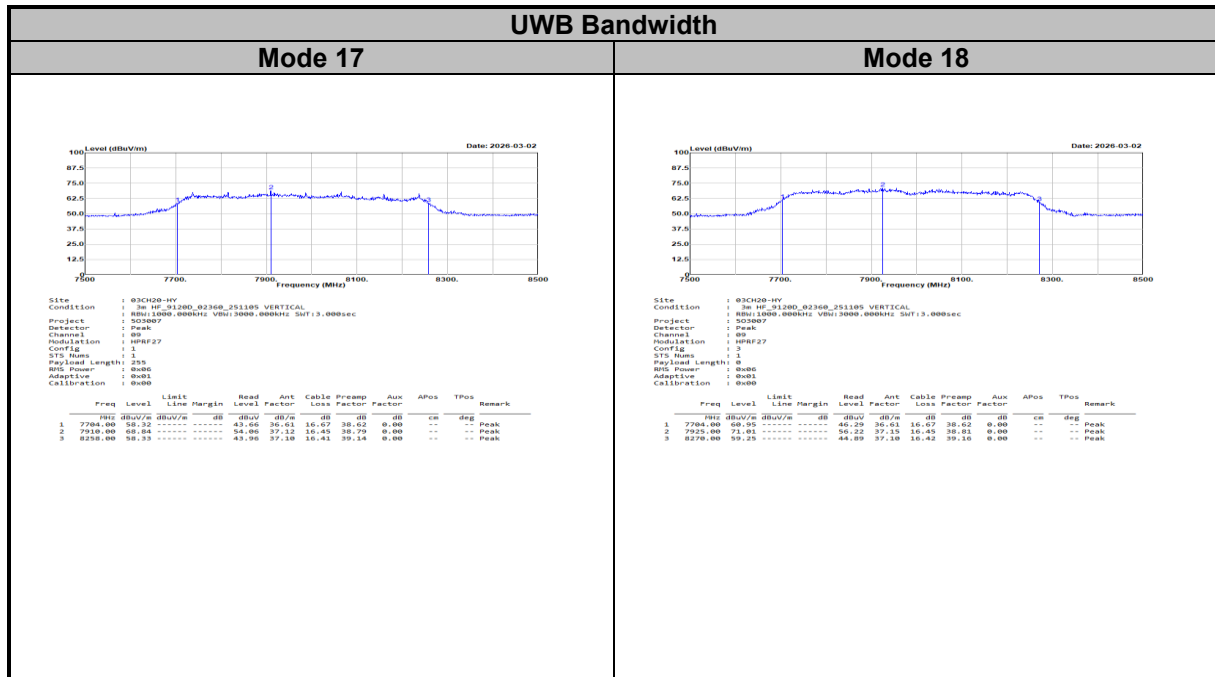
	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1	7700.00	56.02	-----	-----	41.37	36.56	16.78	38.60	0.00	--	--	Peak
2	7971.00	66.25	-----	-----	51.44	37.10	16.47	38.76	0.00	--	--	Peak
3	8279.00	56.18	-----	-----	41.62	37.10	16.42	39.16	0.00	--	--	Peak

Mode 16



Site : 03CH20-HY
Condition : 3e HF-91280_92360_251185 VERTICAL
Project : 8501000_000MHz VNU10000_000MHz SUT:3.000sec
Detector : Peak
Channel : 00
Modulation : BPSK27
Config : 0
STS Num : 0
Payload Length : 255
RF Power : 0dB
Adaptive : 0dB
Calibration : 0dB

	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1	7700.00	59.51	-----	-----	44.85	36.63	16.67	38.62	0.00	--	--	Peak
2	7989.00	69.63	-----	-----	54.84	37.12	16.46	38.79	0.00	--	--	Peak
3	8258.00	58.61	-----	-----	44.44	37.10	16.41	39.14	0.00	--	--	Peak



3.3 Technical requirements for hand held UWB systems

3.3.1 Technical Requirements for transmission Limit

FCC 15.519(a) (1) 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.

3.3.2 Measuring Instruments

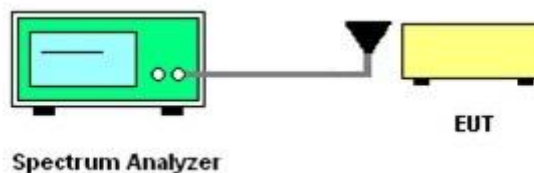
Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedure

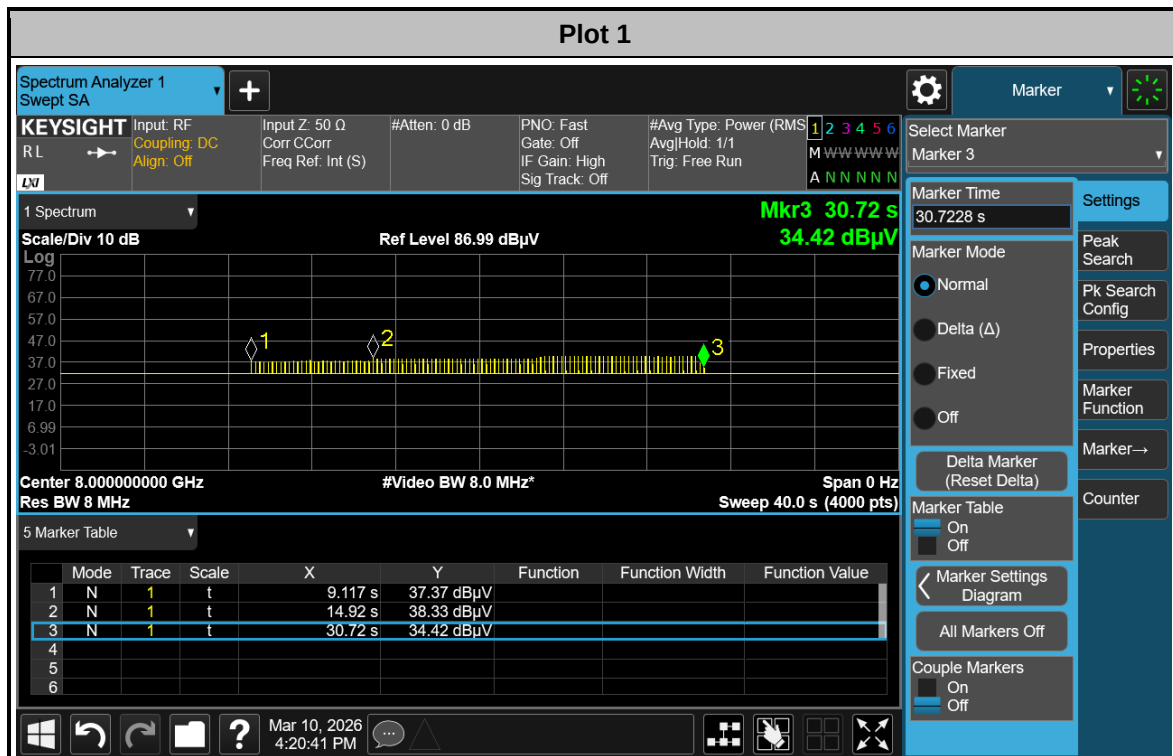
Follow the test step as below:

1. Turn on both EUT and companion receiver.
2. Set the EUT to TX mode, and EUT starts polling.
3. Set the companion receiver to associate EUT and EUT starts to transmit.
4. Disable the RX function of the companion receiver to disassociate the EUT.
5. Check if EUT stop transmitting once step 4 is made.

3.3.4 Test Setup



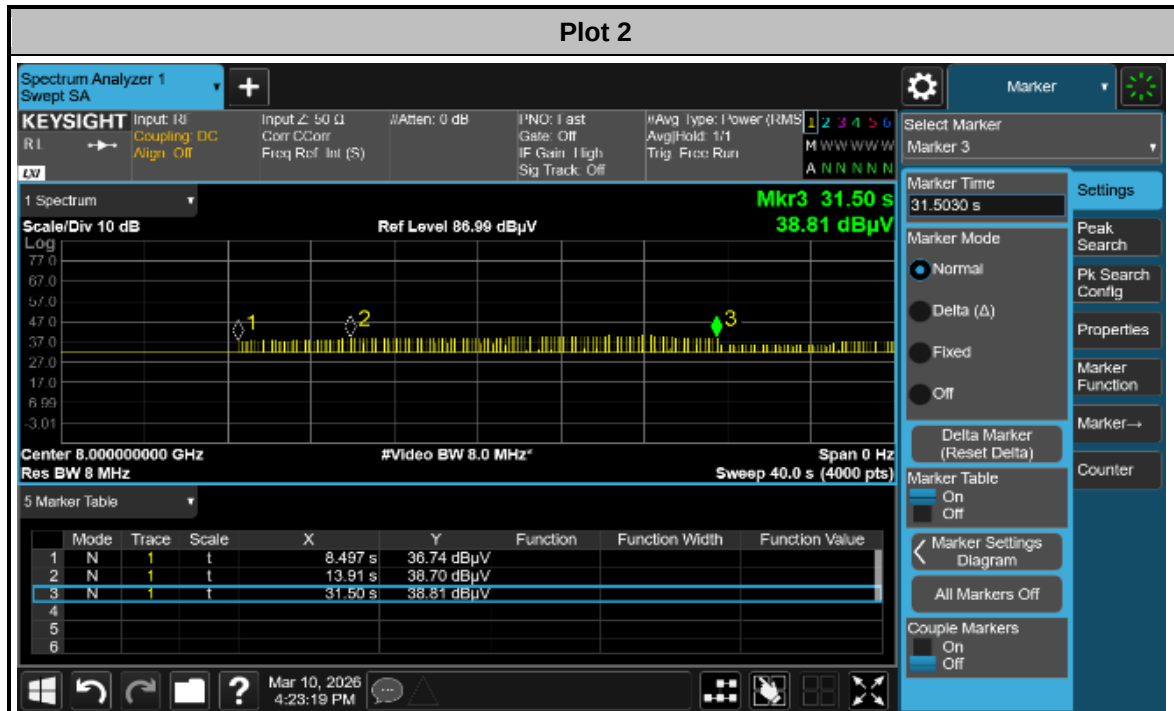
3.3.5 Test Result



M1 to M2: Set the EUT to TX mode, and EUT starts polling.

M2 to M3: Set the companion receiver to associate EUT and EUT starts to transmit.

M3: Disable the TX function of EUT. EUT stops transmitting and polling.



M1 to M2: Set the EUT to TX mode, and EUT starts polling.

M2 to M3: Set the companion receiver to associate EUT and EUT starts to transmit.

M3: RX function of the companion receiver is disabled. EUT disassociates the companion receiver and stops transmitting, but continues polling.



Plot 3 is zoom in plot of M2 to M3 (transmission)

Plot 4 is zoom in plot after M3 (polling only)

3.4 Peak Power Measurement

3.4.1 Peak Power Measurement Limit

Peak Power Measurement Limit
$P_{eirp} = 0 \text{ dBm/50MHz}$

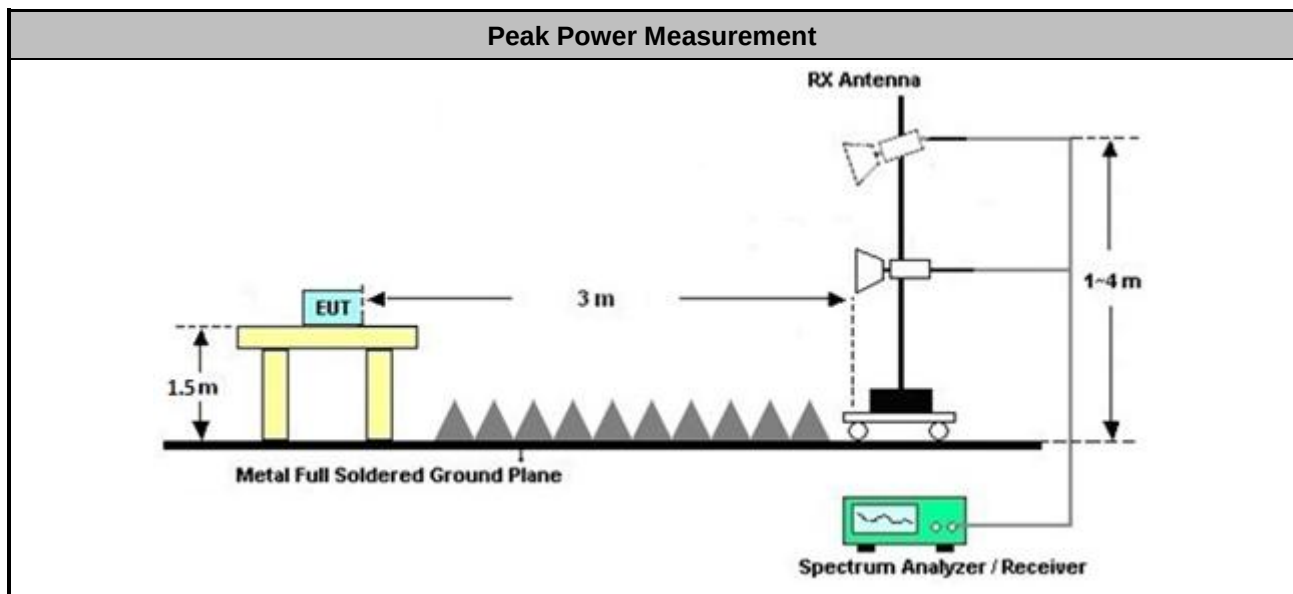
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method
Peak Power Measurement
- Refer as ANSI C63.10, clause 10.3.1 for radiated measurement procedure testing. - Refer as ANSI C63.10, clause 10.3.2 for measurement distance is 3m. - Refer as ANSI C63.10, clause 10.3.5 for peak detector procedure testing. - Refer as ANSI C63.10, clause 10.3.6 for bandwidth conversion of peak power.
- Frequency of max peak power is pre-located: The span bandwidth is continuously reduced to find the worst frequency. Once the worst frequency is found, the setting of spectrum analyzer is set as below: - Central frequency: Worst frequency point - Span: Zero span - RBW: 50MHz - VBW: 80MHz - Detector: Peak detector - Trace: Max hold

3.4.4 Test Setup



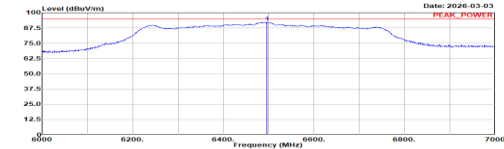
3.4.5 Test Result of Peak Power Measurement

Peak Measurement Result							
Test Mode	Freq. (MHz)	E-Field (dBuV/m)	ERIP _{50MHz} (dBm)	ERIP _{50MHz} Limit (dBm)	Margin (dB)	Result	Pol [H/V]
1	6496	92.09	-3.14	0	-3.14	Pass	H
2	6488	92.49	-2.74	0	-2.74	Pass	H
3	6487	92.00	-3.23	0	-3.23	Pass	H
4	6491	91.39	-3.84	0	-3.84	Pass	H
5	6427	85.25	-9.98	0	-9.98	Pass	H
6	6428	85.28	-9.95	0	-9.95	Pass	H
7	6617	84.45	-10.78	0	-10.78	Pass	H
8	6613	84.06	-11.17	0	-11.17	Pass	H
9	6552	85.06	-10.17	0	-10.17	Pass	H
10	7982	91.95	-3.28	0	-3.28	Pass	V
11	7982	92.83	-2.40	0	-2.40	Pass	V
12	7983	91.92	-3.31	0	-3.31	Pass	V
13	7985	92.22	-3.01	0	-3.01	Pass	V
14	7924	86.07	-9.16	0	-9.16	Pass	V
15	7923	85.78	-9.45	0	-9.45	Pass	V
16	7864	85.50	-9.73	0	-9.73	Pass	V
17	7866	84.83	-10.40	0	-10.40	Pass	V
18	7925	85.12	-10.11	0	-10.11	Pass	V
Note 1: EIRP [dBm] = E-Field [dBuV/m] - 95.23; Note 2: Measurement worst emissions of receive antenna polarization.							



Pre-located worst frequency Plots

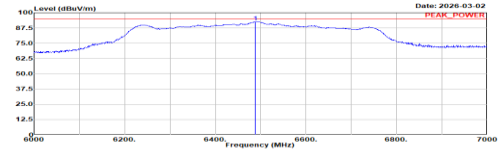
Mode 1



Site : 03CH20-HV
Condition : PEAK_POWER 3m HP_01200_02360_251105 Horizontal
Project : 503007
Detector : Peak
Channel : 05
Modulation : BPSK
Config : 0
STS Num : 0
Payload Length : 127
RFS Power : 0e14
Adaptive : 0e01
Calibration : 0e00

	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1	6496.00	92.09	95.23	-3.14	80.23	35.08	14.51	37.73	0.00	--	deg	Peak

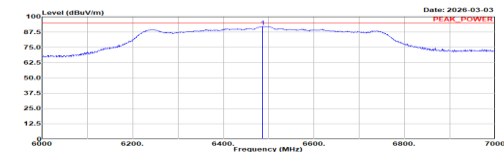
Mode 2



Site : 03CH20-HV
Condition : PEAK_POWER 3m HP_01200_02360_251105 Horizontal
Project : 503007
Detector : Peak
Channel : 05
Modulation : BPSK
Config : 0
STS Num : 0
Payload Length : 127
RFS Power : 0e14
Adaptive : 0e01
Calibration : 0e00

	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1	6488.00	92.49	95.23	-2.74	80.67	35.05	14.50	37.73	0.00	--	deg	Peak

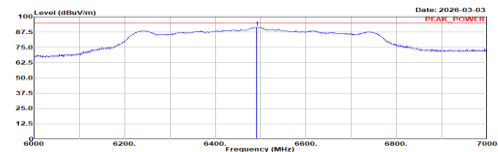
Mode 3



Site : 03CH20-HV
Condition : PEAK_POWER 3m HP_01200_02360_251105 Horizontal
Project : 503007
Detector : Peak
Channel : 05
Modulation : BPSK
Config : 1
STS Num : 1
Payload Length : 127
RFS Power : 0e14
Adaptive : 0e01
Calibration : 0e00

	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1	6487.00	92.00	95.23	-3.23	80.19	35.05	14.49	37.73	0.00	--	deg	Peak

Mode 4



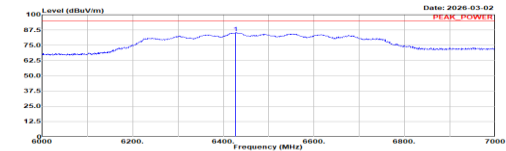
Site : 03CH20-HV
Condition : PEAK_POWER 3m HP_01200_02360_251105 Horizontal
Project : 503007
Detector : Peak
Channel : 05
Modulation : BPSK
Config : 1
STS Num : 1
Payload Length : 127
RFS Power : 0e14
Adaptive : 0e01
Calibration : 0e00

	Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1	6491.00	91.59	95.23	-3.64	79.95	35.06	14.50	37.73	0.00	--	deg	Peak



Pre-located worst frequency Plots

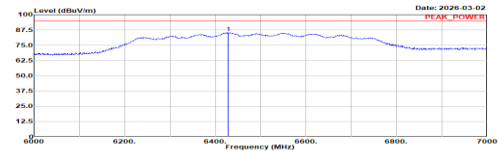
Mode 5



Site : 03CH20-HY
Condition : PEAK_POWER 3m HP_01200_02360_251105 Horizontal
Project : 503007
Detector : Peak
Channel : 05
Modulation : BPSK9
Config : 3
STS Num : 1
Payload Length : 0x14
RFS Power : 0x01
Adaptive : 0x01
Calibration : 0x00

Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1 6427.00	85.25	95.23	-9.98	73.75	34.85	14.39	37.74	0.00	0.00	deg	Peak

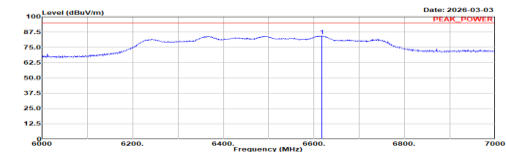
Mode 6



Site : 03CH20-HY
Condition : PEAK_POWER 3m HP_01200_02360_251105 Horizontal
Project : 503007
Detector : Peak
Channel : 05
Modulation : BPSK10
Config : 3
STS Num : 1
Payload Length : 0x14
RFS Power : 0x01
Adaptive : 0x01
Calibration : 0x00

Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1 6428.00	85.28	95.23	-9.95	73.76	34.86	14.40	37.74	0.00	0.00	deg	Peak

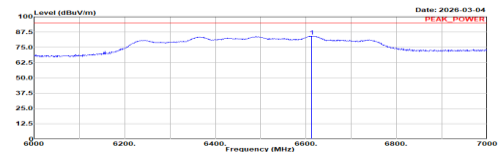
Mode 7



Site : 03CH20-HY
Condition : PEAK_POWER 3m HP_01200_02360_251105 Horizontal
Project : 503007
Detector : Peak
Channel : 05
Modulation : BPSK27
Config : 0
STS Num : 225
Payload Length : 0x14
RFS Power : 0x01
Adaptive : 0x01
Calibration : 0x00

Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1 6637.00	84.45	95.23	-10.78	71.72	35.00	14.70	37.77	0.00	0.00	cm	Peak

Mode 8



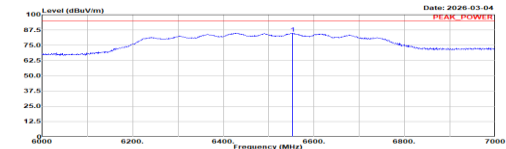
Site : 03CH20-HY
Condition : PEAK_POWER 3m HP_01200_02360_251105 Horizontal
Project : 503007
Detector : Peak
Channel : 05
Modulation : BPSK27
Config : 1
STS Num : 225
Payload Length : 0x14
RFS Power : 0x01
Adaptive : 0x01
Calibration : 0x00

Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1 6613.00	84.00	95.23	-11.17	71.34	35.00	14.69	37.77	0.00	0.00	cm	Peak



Pre-located worst frequency Plots

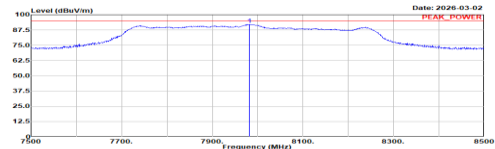
Mode 9



Site : 03CH20-HY
Condition : PEAK_POWER 3m HP_01200_02360_251105 Horizontal
Project : 503007
Detector : Peak
Channel : 00
Modulation : 00
Config : 00
STS Num : 1
Payload Length : 127
RFS Power : 0.00
Adaptive : 0.00
Calibration : 0.00

Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1 6552.00	85.06	95.23	-10.17	72.70	35.51	14.68	37.75	0.00	0.00	deg	Peak

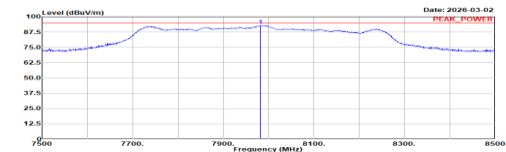
Mode 10



Site : 03CH20-HY
Condition : PEAK_POWER 3m HP_01200_02360_251105 VERTICAL
Project : 503007
Detector : Peak
Channel : 00
Modulation : 00
Config : 00
STS Num : 1
Payload Length : 127
RFS Power : 0.00
Adaptive : 0.00
Calibration : 0.00

Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1 7982.00	91.95	95.23	-3.28	77.18	37.28	16.42	38.85	0.00	0.00	deg	Peak

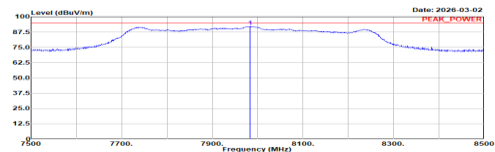
Mode 11



Site : 03CH20-HY
Condition : PEAK_POWER 3m HP_01200_02360_251105 VERTICAL
Project : 503007
Detector : Peak
Channel : 00
Modulation : 00
Config : 00
STS Num : 1
Payload Length : 127
RFS Power : 0.00
Adaptive : 0.00
Calibration : 0.00

Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1 7982.00	92.03	95.23	-3.20	78.86	37.28	16.42	38.85	0.00	0.00	deg	Peak

Mode 12



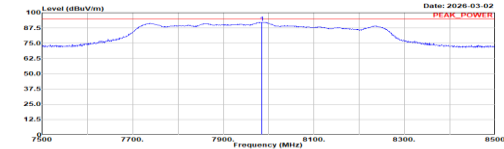
Site : 03CH20-HY
Condition : PEAK_POWER 3m HP_01200_02360_251105 VERTICAL
Project : 503007
Detector : Peak
Channel : 00
Modulation : 00
Config : 00
STS Num : 1
Payload Length : 127
RFS Power : 0.00
Adaptive : 0.00
Calibration : 0.00

Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1 7983.00	91.92	95.23	-3.31	77.15	37.28	16.42	38.86	0.00	0.00	deg	Peak



Pre-located worst frequency Plots

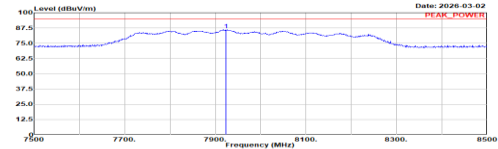
Mode 13



Site : 03CH20-HY
Condition : PEAK_POWER 3m HP_01200_02360_251105 VERTICAL
Project : 503007
Detector : Peak
Channel : 00
Modulation : BPSK10
Config : 1
STS Num : 1
Payload Length : 127
RFS Power : 0dB0
Adaptive : 0dB0
Calibration : 0dB0

Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1 7985.00	92.22	95.23	-3.01	77.46	37.28	16.42	38.86	0.00	--	deg	Peak

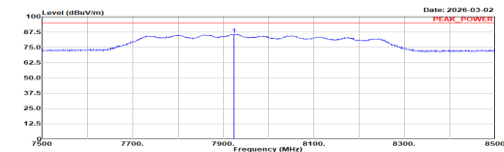
Mode 14



Site : 03CH20-HY
Condition : PEAK_POWER 3m HP_01200_02360_251105 VERTICAL
Project : 503007
Detector : Peak
Channel : 00
Modulation : BPSK9
Config : 1
STS Num : 1
Payload Length : 0
RFS Power : 0dB0
Adaptive : 0dB0
Calibration : 0dB0

Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1 7924.00	86.07	95.23	-9.16	71.27	37.15	16.45	38.80	0.00	--	deg	Peak

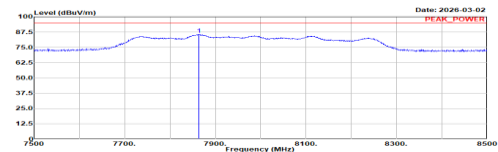
Mode 15



Site : 03CH20-HY
Condition : PEAK_POWER 3m HP_01200_02360_251105 VERTICAL
Project : 503007
Detector : Peak
Channel : 00
Modulation : BPSK10
Config : 1
STS Num : 0
Payload Length : 0
RFS Power : 0dB0
Adaptive : 0dB0
Calibration : 0dB0

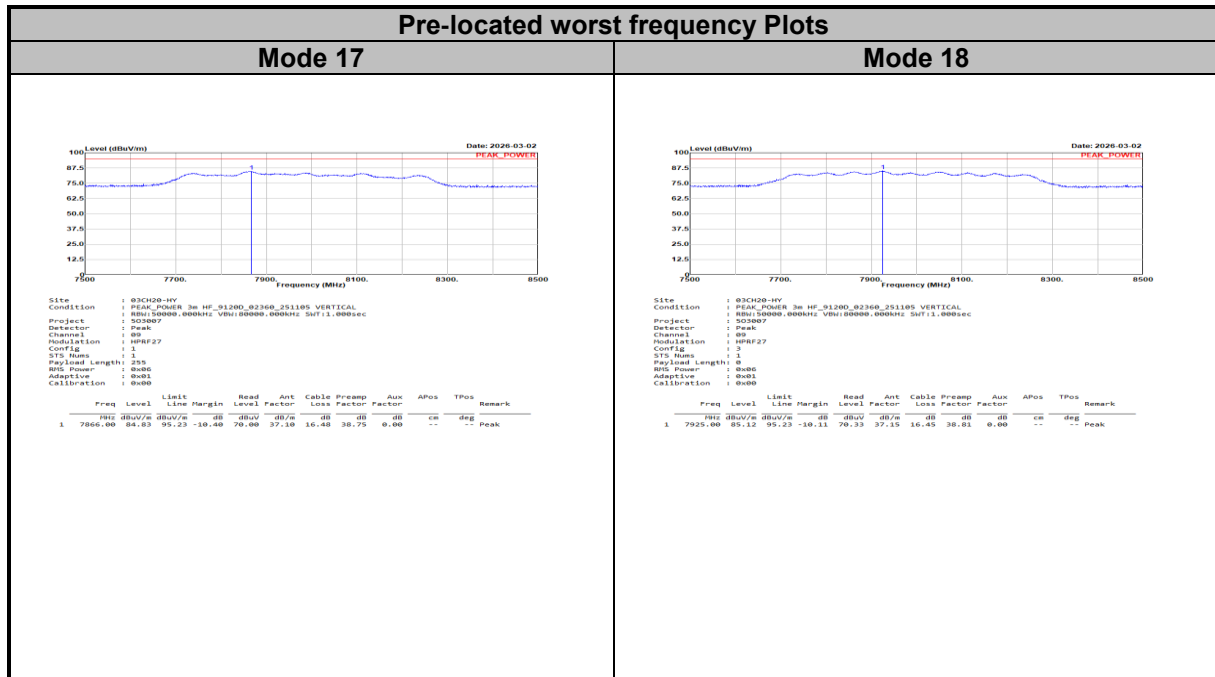
Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1 7923.00	89.78	95.23	-5.45	70.38	37.15	16.45	38.80	0.00	--	deg	Peak

Mode 16



Site : 03CH20-HY
Condition : PEAK_POWER 3m HP_01200_02360_251105 VERTICAL
Project : 503007
Detector : Peak
Channel : 00
Modulation : BPSK27
Config : 0
STS Num : 0
Payload Length : 255
RFS Power : 0dB0
Adaptive : 0dB0
Calibration : 0dB0

Freq	Level	Limit	Line Margin	Read Level	Ant Factor	Cable Loss	Preamp Factor	Aux Factor	APos	TPos	Remark
1 7864.00	89.58	95.23	-5.65	70.67	37.18	16.48	38.75	0.00	--	deg	Peak



3.5 Radiated Emissions

3.5.1 Radiated Emissions Limit

Radiated Emissions below 960MHz and Emissions from Digital Circuitry Limit			
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Radiated Emissions above 960MHz Limit	
Frequency Range (MHz)	EIRP (dBm), RBW = 1MHz
960-1610	-75.3
1610-1990	-63.3
1990-3100	-61.3
3100-10600	-41.3
Above 10600	-61.3

Note: Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB)

Radiated Emissions in GPS Bands Limit	
Frequency Range (MHz)	EIRP (dBm), RBW ≥ 1kHz
1164-1240	-85.3
1559-1610	-85.3

Note E (dBuV/m) = EIRP (dBm) + 95.23, example, E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m

3.5.2 Measuring Instruments

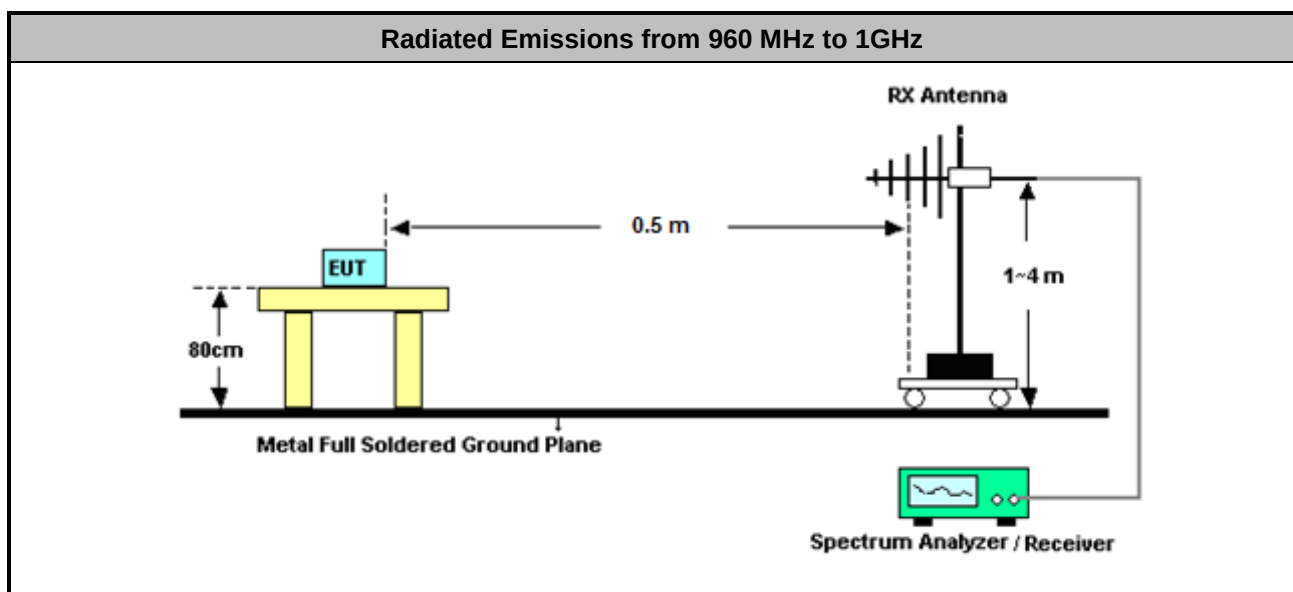
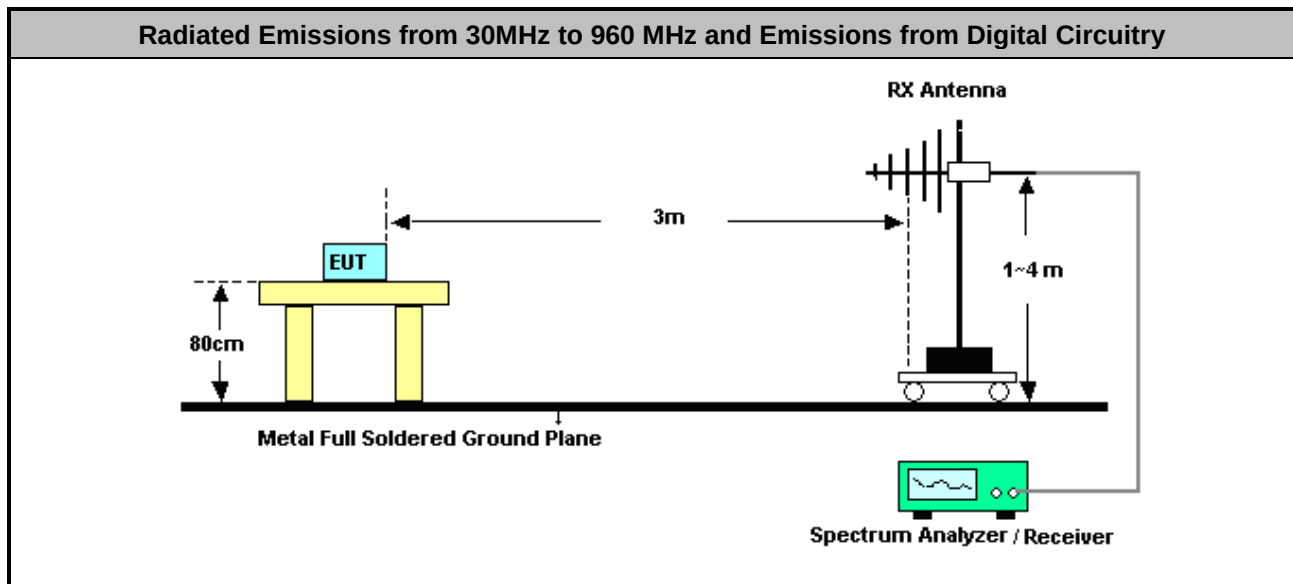
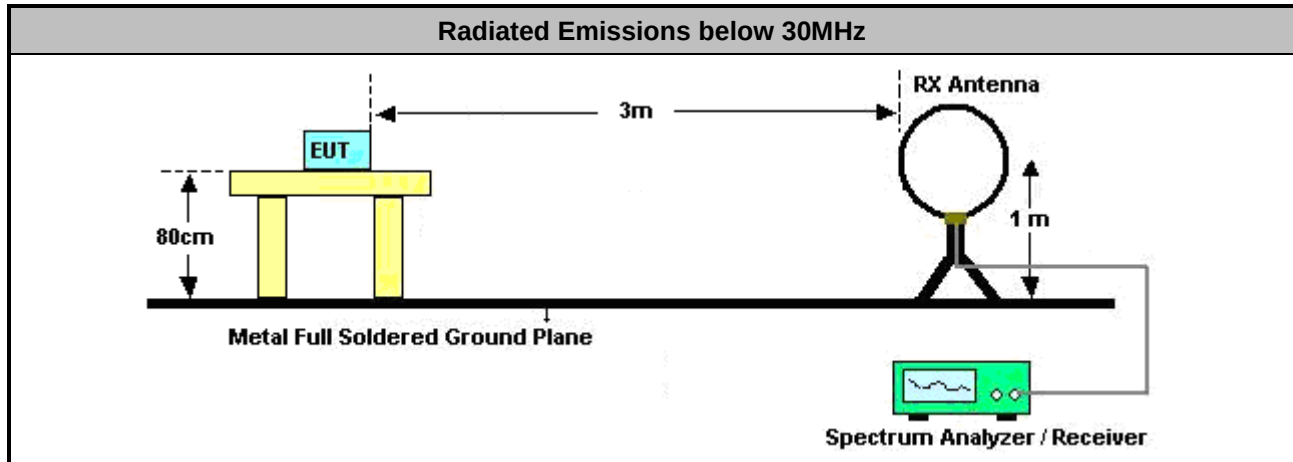
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

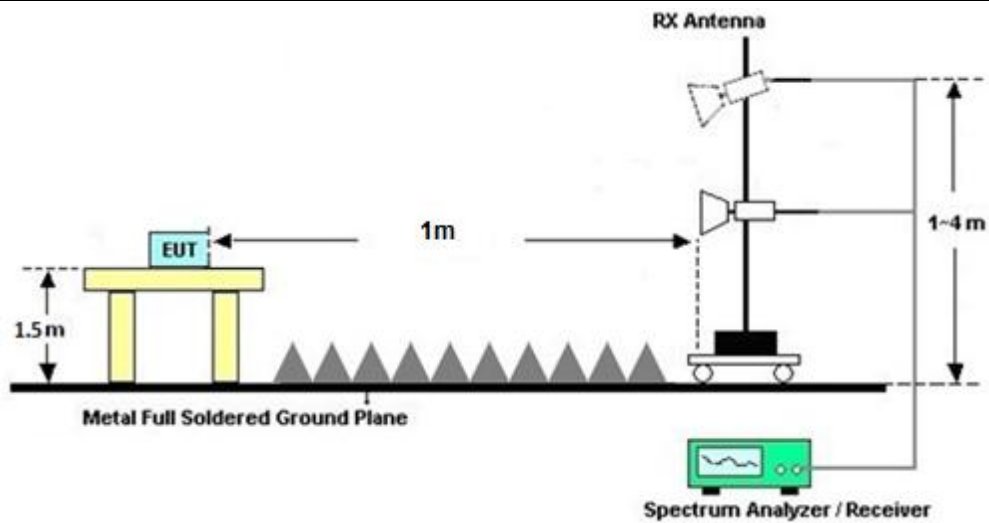
Test Method for Radiated Emissions above 960MHz	
■ Radiated Emissions above 960MHz	
■	Refer as ANSI C63.10, clause 10.3.1 for radiated measurement procedure testing.
■	Refer as ANSI C63.10, clause 10.3.2 for measurement distance is 3m. In some cases, it may be necessary to measure the radiated UWB emissions at a closer distance to obtain enough signal and margin to overcome the measurement system noise floor. Distance extrapolation factor = 20 log (test distance [X m]/specific distance [3 m]) (dB)
■	Refer as ANSI C63.10, clause 10.3.4 for rms detector procedure testing.
■	Refer as ANSI C63.10, clause 10.3.7 for evaluating AVG-PSD (RBW=1MHz).
■	Refer as ANSI C63.10, clause 10.3.10 for evaluating AVG-PSD in GPS Band (RBW≥1kHz).
■ For radiated measurement.	
■	Refer as ANSI C63.10, clause 10.3.8 following eirp can be used radiated test configuration.
■	Refer as ANSI C63.10, clause 10.3.9 following eirp can be directly determined using the field strength.

Test Method for Radiated Emissions below 960MHz and Emissions from Digital Circuitry	
■ Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements) for above 30MHz-960MHz; 40dB/decade for frequency below 30MHz.	
■ For the transmitter unwanted emissions shall be measured using following options below:	
■	Refer as ANSI C63.10, clause 4.1.4 Detector functions and selection of bandwidth
□	Refer as ANSI C63.10, clause 4.1.4.2.4 average value of pulsed emissions. Adjusted by a “duty cycle correction factor”, derived from 20log (dwell time/100 ms). Average emission = peak emission + 20 log (duty cycle).
■	Refer as ANSI C63.10, clause 4.1.4.2.2 measurement procedure peak limit.
■ For radiated measurement.	
■	Refer as ANSI C63.10, clause 6.4 for radiated emissions below 30 MHz and test distance is 3m.
■	Refer as ANSI C63.10, clause 6.5 for radiated emissions 30 MHz to 1 GHz and test distance is 3m.
■	Refer as ANSI C63.10, clause 6.6 for radiated emissions above 1 GHz and test distance is 3m.
■	If the noise floor can't meet the limit, the test distance will be shorten and described in the report.
■ Any unwanted emissions level shall not exceed the fundamental emission level.	

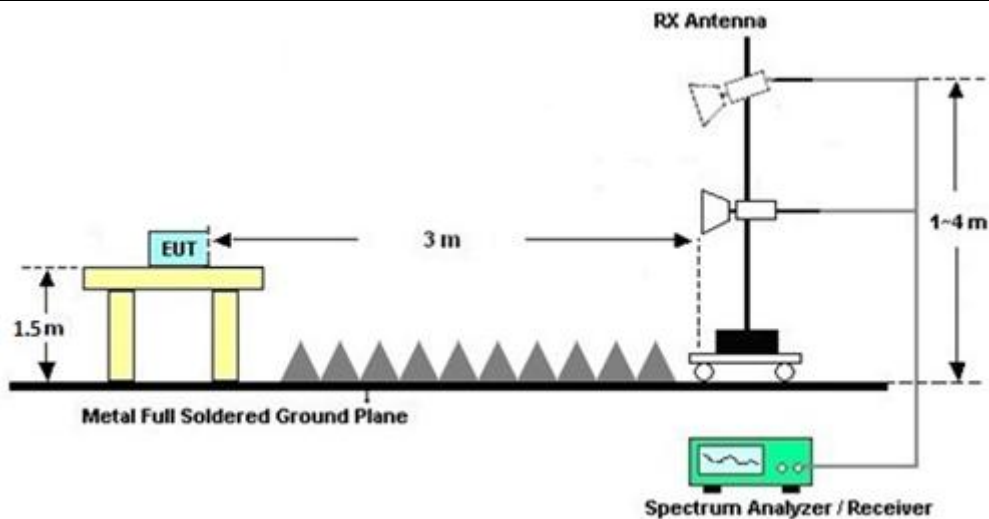
3.5.4 Test Setup

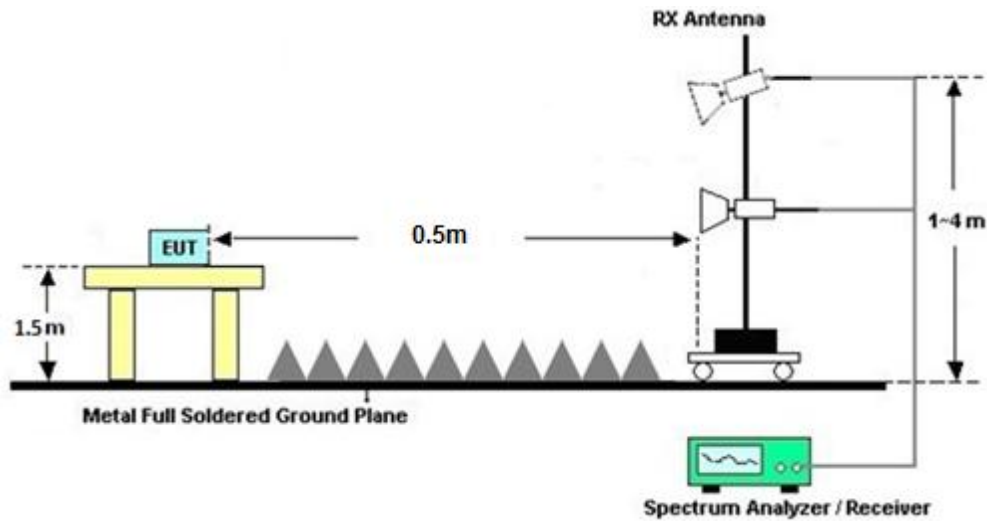
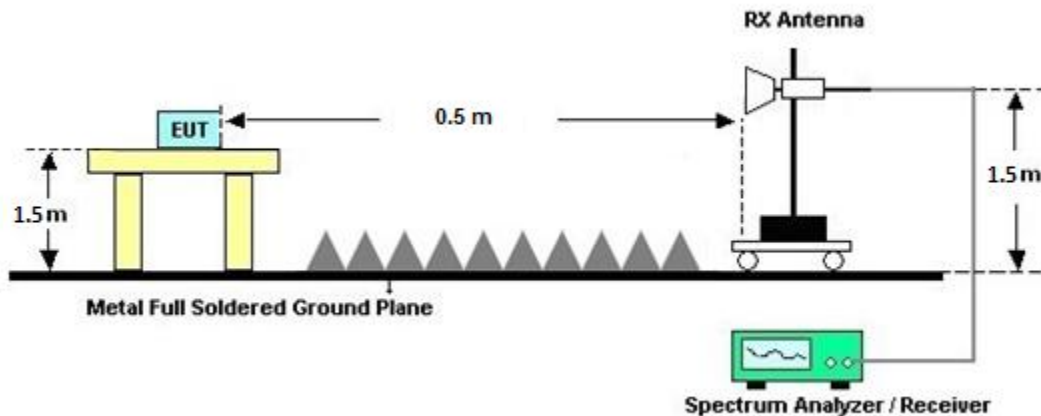


Radiated Emissions from 1GHz to 1.61 GHz



Radiated Emissions from 1.61 GHz to 10.60 GHz



Radiated Emissions from 10.60 GHz to 18GHz

Radiated Emissions above 18GHz


Note 1: Magnetic field tests shall be performed in the frequency range of 9 kHz to 30 MHz using a calibrated loop antenna. Electric field tests shall be performed in the frequency range of 30 MHz to 1000 MHz using a calibrated bi-log antenna and the frequency range of 1 GHz to 40 GHz using a calibrated horn antenna.

Note 2: If test distance other than 3m is used, the used test distance will be recorded in test result.

3.5.5 Radiated Emissions (Below 30MHz)

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

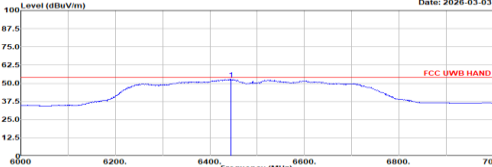
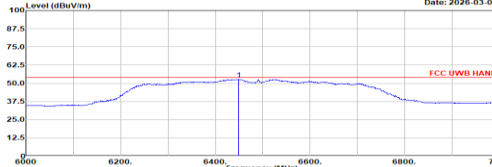
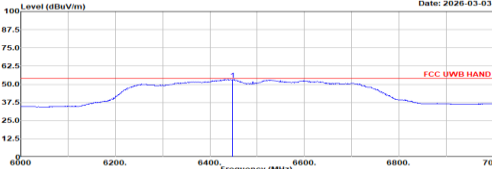
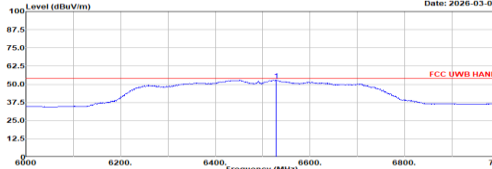
There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.5.6 Average Power Spectral Density

Test mode	Frequency (MHz)	Emission Level (dBuV/m)	Emission Limit (dBm/MHz)	Emission Limit (dBuV/m)	Margin (dB)	Result	Pol [H/V]
1	6444	52.86	-41.3	53.93	-1.07	Pass	H
2	6449	52.62	-41.3	53.93	-1.31	Pass	H
3	6448	53.36	-41.3	53.93	-0.57	Pass	H
4	6528	53.01	-41.3	53.93	-0.92	Pass	H
5	6448	53.00	-41.3	53.93	-0.93	Pass	H
6	6453	53.80	-41.3	53.93	-0.13	Pass	H
7	6441	52.62	-41.3	53.93	-1.31	Pass	H
8	6441	52.94	-41.3	53.93	-0.99	Pass	H
9	6526	53.15	-41.3	53.93	-0.78	Pass	H
10	7873	52.67	-41.3	53.93	-1.26	Pass	V
11	7957	53.23	-41.3	53.93	-0.70	Pass	V
12	7958	53.16	-41.3	53.93	-0.77	Pass	V
13	7955	53.20	-41.3	53.93	-0.73	Pass	V
14	7955	52.99	-41.3	53.93	-0.94	Pass	V
15	7937	53.81	-41.3	53.93	-0.12	Pass	V
16	7958	52.90	-41.3	53.93	-1.03	Pass	V
17	7958	52.65	-41.3	53.93	-1.28	Pass	V
18	7953	52.26	-41.3	53.93	-1.67	Pass	V



Radiated Emissions (Fundamental)

Operating Function	Adapter Mode	Polarization	H																																																																								
		Test Distance	3m																																																																								
Mode 1		Mode 2																																																																									
Level (dBuV/m) Date: 2026-03-03  Site : 03CH20-HV Condition : FCC UWB HAND 3m HF_91200_02360_251105 Horizontal Project : 503007 Detector : Average Channel : 05 Modulation : BPRF9 Config : 0 STS Num : 0 Payload Length: 127 RSS Power : 0x14 Adaptive : 0x01 Calibration : 0x00 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th>Average</th></tr><tr><td>1 6444.00</td><td>52.65</td><td>53.93</td><td>-1.07</td><td>41.29</td><td>34.89</td><td>14.42</td><td>37.74</td><td>0.00</td><td>--</td><td>--</td><td>Average</td></tr></table>		Freq	Level	Limit	Line Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	Average	1 6444.00	52.65	53.93	-1.07	41.29	34.89	14.42	37.74	0.00	--	--	Average	Level (dBuV/m) Date: 2026-03-02  Site : 03CH20-HV Condition : FCC UWB HAND 3m HF_91200_02360_251105 Horizontal Project : 503007 Detector : Average Channel : 05 Modulation : BPRF10 Config : 0 STS Num : 0 Payload Length: 127 RSS Power : 0x14 Adaptive : 0x01 Calibration : 0x00 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th>Average</th></tr><tr><td>1 6449.00</td><td>52.65</td><td>53.93</td><td>-1.28</td><td>41.06</td><td>34.90</td><td>14.43</td><td>37.74</td><td>0.00</td><td>--</td><td>--</td><td>Average</td></tr></table>		Freq	Level	Limit	Line Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	Average	1 6449.00	52.65	53.93	-1.28	41.06	34.90	14.43	37.74	0.00	--	--	Average
Freq	Level	Limit	Line Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																
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1 6444.00	52.65	53.93	-1.07	41.29	34.89	14.42	37.74	0.00	--	--	Average																																																																
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MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	Average																																																																
1 6449.00	52.65	53.93	-1.28	41.06	34.90	14.43	37.74	0.00	--	--	Average																																																																
Mode 3		Mode 4																																																																									
Level (dBuV/m) Date: 2026-03-03  Site : 03CH20-HV Condition : FCC UWB HAND 3m HF_91200_02360_251105 Horizontal Project : 503007 Detector : Average Channel : 05 Modulation : BPRF9 Config : 1 STS Num : 1 Payload Length: 127 RSS Power : 0x14 Adaptive : 0x01 Calibration : 0x00 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th>Average</th></tr><tr><td>1 6448.00</td><td>53.36</td><td>53.93</td><td>-0.57</td><td>41.77</td><td>34.90</td><td>14.43</td><td>37.74</td><td>0.00</td><td>--</td><td>--</td><td>Average</td></tr></table>		Freq	Level	Limit	Line Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	Average	1 6448.00	53.36	53.93	-0.57	41.77	34.90	14.43	37.74	0.00	--	--	Average	Level (dBuV/m) Date: 2026-03-02  Site : 03CH20-HV Condition : FCC UWB HAND 3m HF_91200_02360_251105 Horizontal Project : 503007 Detector : Average Channel : 05 Modulation : BPRF10 Config : 1 STS Num : 1 Payload Length: 127 RSS Power : 0x14 Adaptive : 0x01 Calibration : 0x00 <table><tr><th>Freq</th><th>Level</th><th>Limit</th><th>Line Margin</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th>Average</th></tr><tr><td>1 6528.00</td><td>53.01</td><td>53.93</td><td>-0.92</td><td>40.87</td><td>35.32</td><td>14.56</td><td>37.74</td><td>0.00</td><td>--</td><td>--</td><td>Average</td></tr></table>		Freq	Level	Limit	Line Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	Average	1 6528.00	53.01	53.93	-0.92	40.87	35.32	14.56	37.74	0.00	--	--	Average
Freq	Level	Limit	Line Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	Average																																																																
1 6448.00	53.36	53.93	-0.57	41.77	34.90	14.43	37.74	0.00	--	--	Average																																																																
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1 6528.00	53.01	53.93	-0.92	40.87	35.32	14.56	37.74	0.00	--	--	Average																																																																



Radiated Emissions (Fundamental)

Operating Function

Adapter Mode

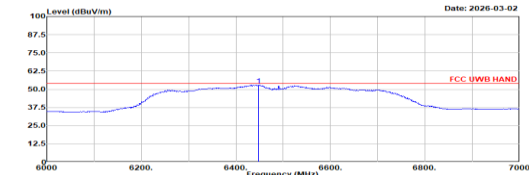
Polarization

H

Test Distance

3m

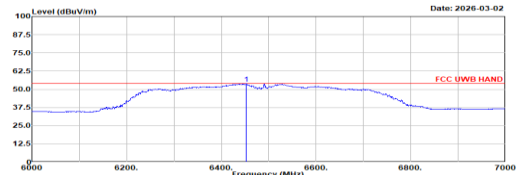
Mode 5



Site : 03CH20-HV
Condition : FCC UWB HAND 3m HF 91200.02360.251105 Horizontal
Project : 503007
Detector : Average
Channel : 05
Modulation : BPRF9
Config : 3
ST5 Runs : 1
Payload Length: 0
RSS Power : 0x14
Adaptive : 0x01
Calibration : 0x00

Freq	Level	Limit	Line Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6448.00	53.00	-0.93	41.41	34.90	14.43	37.74	0.00	--	--	Average

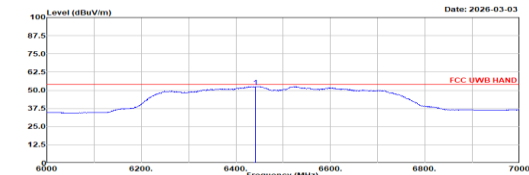
Mode 6



Site : 03CH20-HV
Condition : FCC UWB HAND 3m HF 91200.02360.251105 Horizontal
Project : 503007
Detector : Average
Channel : 05
Modulation : BPRF10
Config : 3
ST5 Runs : 1
Payload Length: 0
RSS Power : 0x14
Adaptive : 0x00
Calibration : 0x01

Freq	Level	Limit	Line Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6453.00	53.00	-0.13	42.18	34.91	14.44	37.73	0.00	--	--	Average

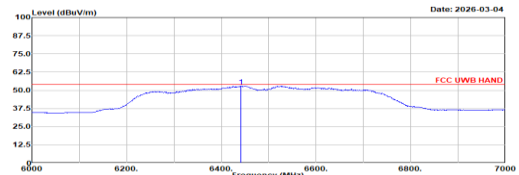
Mode 7



Site : 03CH20-HV
Condition : FCC UWB HAND 3m HF 91200.02360.251105 Horizontal
Project : 503007
Detector : Average
Channel : 05
Modulation : BPRF27
Config : 0
ST5 Runs : 1
Payload Length: 225
RSS Power : 0x14
Adaptive : 0x01
Calibration : 0x00

Freq	Level	Limit	Line Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6441.00	52.02	-1.33	41.06	34.08	14.42	37.74	0.00	--	--	Average

Mode 8



Site : 03CH20-HV
Condition : FCC UWB HAND 3m HF 91200.02360.251105 Horizontal
Project : 503007
Detector : Average
Channel : 05
Modulation : BPRF27
Config : 1
ST5 Runs : 1
Payload Length: 225
RSS Power : 0x14
Adaptive : 0x01
Calibration : 0x00

Freq	Level	Limit	Line Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	6441.00	52.04	-0.99	41.38	34.08	14.42	37.74	0.00	--	--	Average



Radiated Emissions (Fundamental)												
Operating Function	Adapter Mode		Polarization				H					
			Test Distance				3m					
Mode 9												
</												



Radiated Emissions (Fundamental)

Operating Function

Adapter Mode

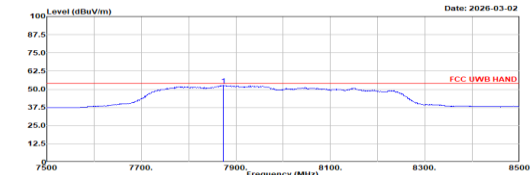
Polarization

V

Test Distance

3m

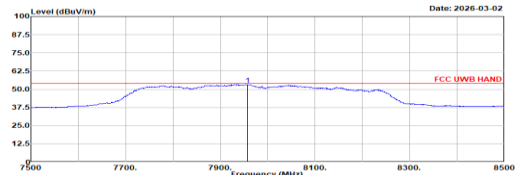
Mode 10



Site : 03CH20-HV
Condition : FCC UWB HAND 3m HF 91200.02360 251105 VERTICAL
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF9
Config : 0
STS Runs : 0
Payload Length : 127
RSS Power : 0x06
Adaptive : 0x01
Calibration : 0x00

Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq Level Line Margin	Level Factor	Loss Factor	Factor	Factor	Factor	Factor	Factor	
Hz dBuV/m dB	dBuV/m	dB/m	dB	dB	dB	cm	deg	
1 7873.00	52.67	53.93	-1.26	37.86	37.10	16.47	36.76	0.00
Average								

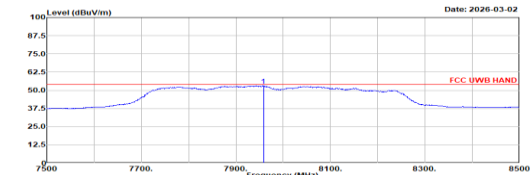
Mode 11



Site : 03CH20-HV
Condition : FCC UWB HAND 3m HF 91200.02360 251105 VERTICAL
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF10
Config : 0
STS Runs : 0
Payload Length : 127
RSS Power : 0x06
Adaptive : 0x01
Calibration : 0x00

Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq Level Line Margin	Level Factor	Loss Factor	Factor	Factor	Factor	Factor	Factor	
Hz dBuV/m dB	dBuV/m	dB/m	dB	dB	dB	cm	deg	
1 7957.00	53.23	53.93	-0.70	38.43	37.28	16.43	38.63	0.00
Average								

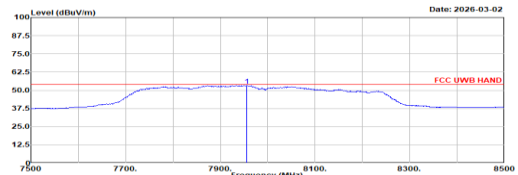
Mode 12



Site : 03CH20-HV
Condition : FCC UWB HAND 3m HF 91200.02360 251105 VERTICAL
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF9
Config : 1
STS Runs : 1
Payload Length : 127
RSS Power : 0x06
Adaptive : 0x01
Calibration : 0x00

Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq Level Line Margin	Level Factor	Loss Factor	Factor	Factor	Factor	Factor	Factor	
Hz dBuV/m dB	dBuV/m	dB/m	dB	dB	dB	cm	deg	
1 7956.00	53.16	53.93	-0.77	38.36	37.20	16.43	38.63	0.00
Average								

Mode 13



Site : 03CH20-HV
Condition : FCC UWB HAND 3m HF 91200.02360 251105 VERTICAL
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF10
Config : 1
STS Runs : 1
Payload Length : 127
RSS Power : 0x06
Adaptive : 0x01
Calibration : 0x00

Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
Freq Level Line Margin	Level Factor	Loss Factor	Factor	Factor	Factor	Factor	Factor	
Hz dBuV/m dB	dBuV/m	dB/m	dB	dB	dB	cm	deg	
1 7955.00	53.20	53.93	-0.73	38.48	37.28	16.43	38.63	0.00
Average								



Radiated Emissions (Fundamental)

Operating Function

Adapter Mode

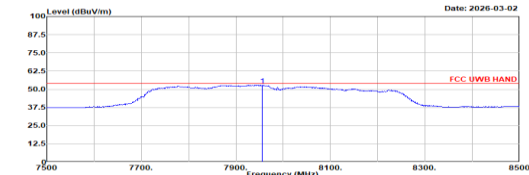
Polarization

V

Test Distance

3m

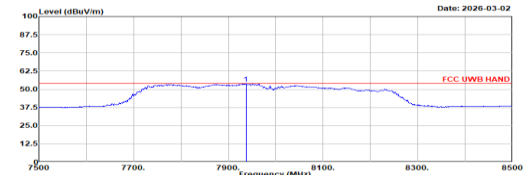
Mode 14



Site : 03CH20-HV
Condition : FCC UWB HAND 3m HF_91200_02360_251105 VERTICAL
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF9
Config : 1
STS Num : 1
Payload Length : 0
RSS Power : 0x06
Adaptive : 0x01
Calibration : 0x00

Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB	dB	dB	cm	deg	
1	7955.00	52.99	53.93	-0.94	38.19	37.20	16.43	38.63	0.00	--	--	Average

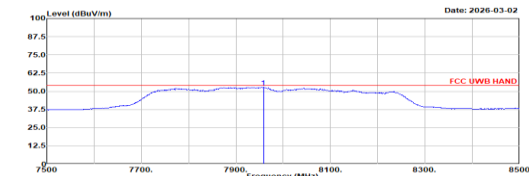
Mode 15



Site : 03CH20-HV
Condition : FCC UWB HAND 3m HF_91200_02360_251105 VERTICAL
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF10
Config : 1
STS Num : 1
Payload Length : 0
RSS Power : 0x06
Adaptive : 0x00
Calibration : 0x01

Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB	dB	dB	cm	deg	
1	7937.00	53.81	53.93	-0.12	39.82	37.17	16.44	38.62	0.00	--	--	Average

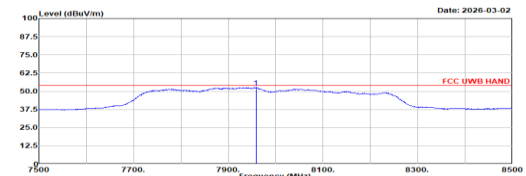
Mode 16



Site : 03CH20-HV
Condition : FCC UWB HAND 3m HF_91200_02360_251105 VERTICAL
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF27
Config : 0
STS Num : 1
Payload Length : 255
RSS Power : 0x06
Adaptive : 0x01
Calibration : 0x00

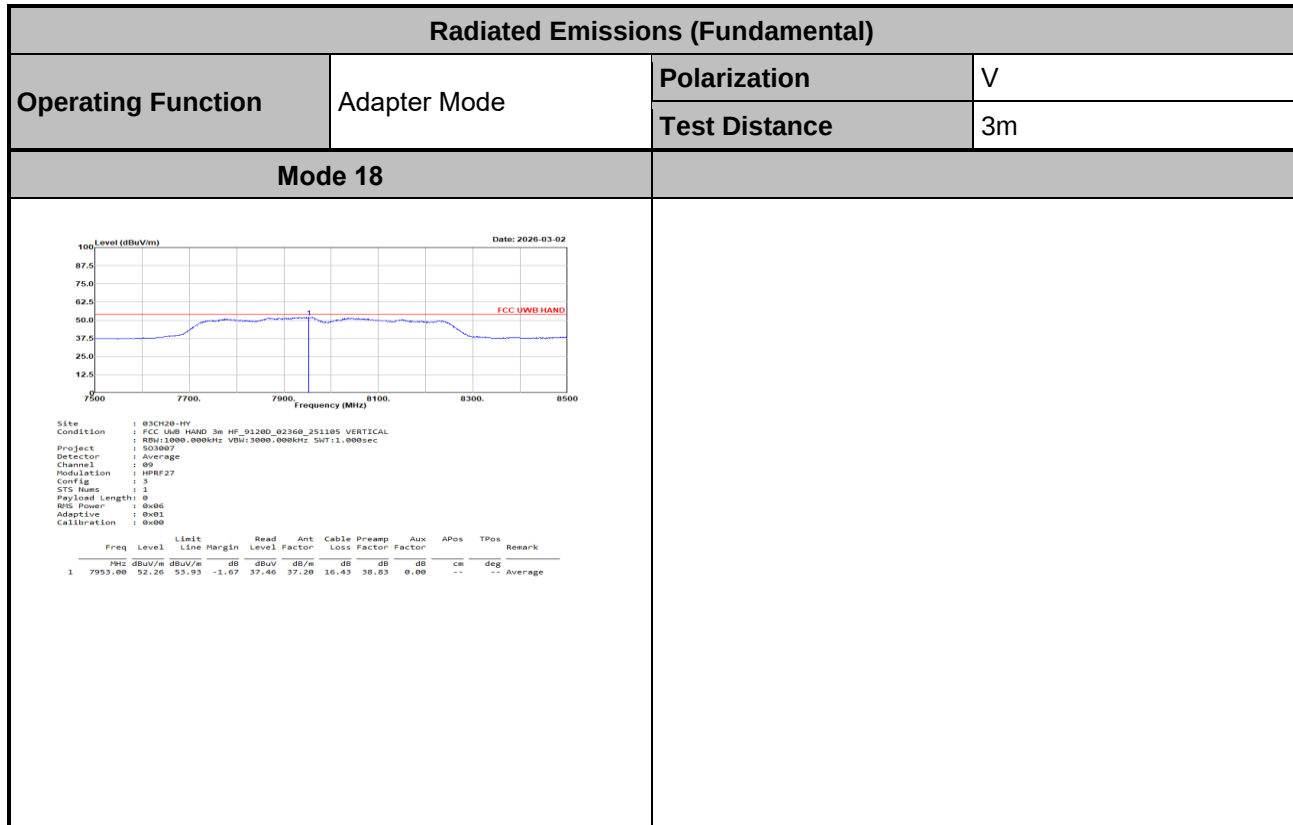
Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB	dB	dB	cm	deg	
1	7958.00	52.90	53.93	-1.03	38.10	37.20	16.43	38.63	0.00	--	--	Average

Mode 17



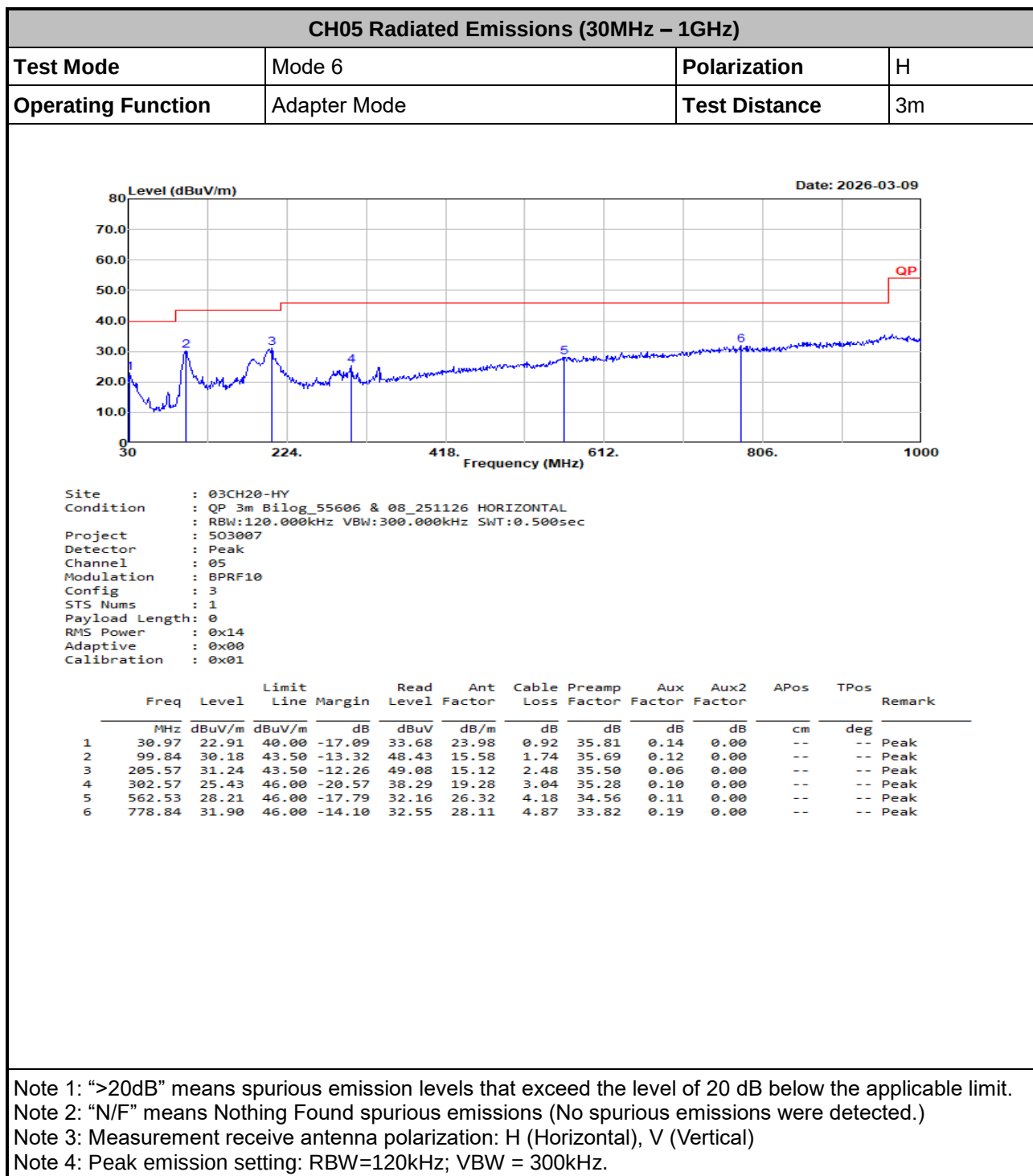
Site : 03CH20-HV
Condition : FCC UWB HAND 3m HF_91200_02360_251105 VERTICAL
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF27
Config : 1
STS Num : 1
Payload Length : 255
RSS Power : 0x06
Adaptive : 0x01
Calibration : 0x00

Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m	dB	dB	dB	dB	dB	dB	dB	cm	deg	
1	7958.00	52.65	53.93	-1.28	37.85	37.20	16.43	38.63	0.00	--	--	Average





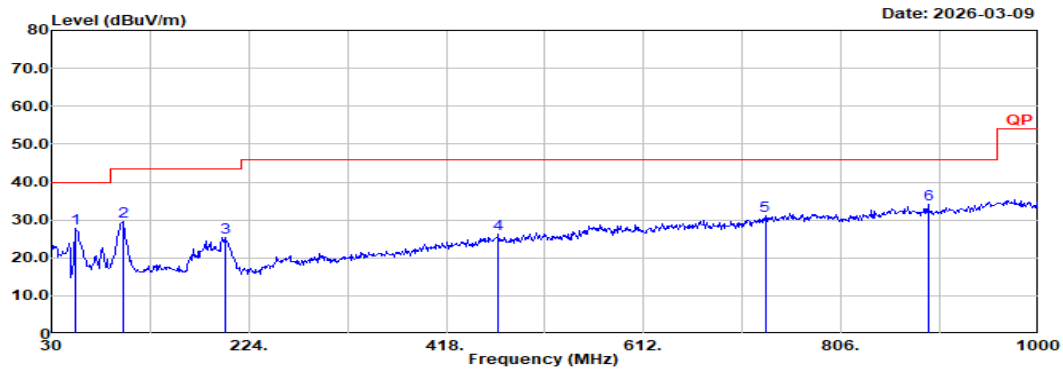
3.5.7 Radiated Emissions (30MHz – 1GHz)





CH05 Radiated Emissions (30MHz – 1GHz)

Test Mode	Mode 6	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH20-HY
Condition : QP 3m Bilog_55606 & 08_251126 VERTICAL
Project : 503007
Detector : Peak
Channel : 05
Modulation : BPRF10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x14
Adaptive : 0x00
Calibration : 0x01

	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	54.25	27.76	40.00	-12.24		49.03	13.08	1.26	35.76	0.15	0.00	--	--	Peak
2	99.84	29.58	43.50	-13.92		47.83	15.58	1.74	35.69	0.12	0.00	--	--	Peak
3	200.72	25.35	43.50	-18.15		43.30	15.05	2.45	35.51	0.06	0.00	--	--	Peak
4	469.41	26.27	46.00	-19.73		33.82	23.41	3.78	34.85	0.11	0.00	--	--	Peak
5	731.31	30.98	46.00	-15.02		32.33	27.68	4.74	33.98	0.21	0.00	--	--	Peak
6	891.36	34.04	46.00	-11.96		33.02	28.91	5.30	33.38	0.19	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

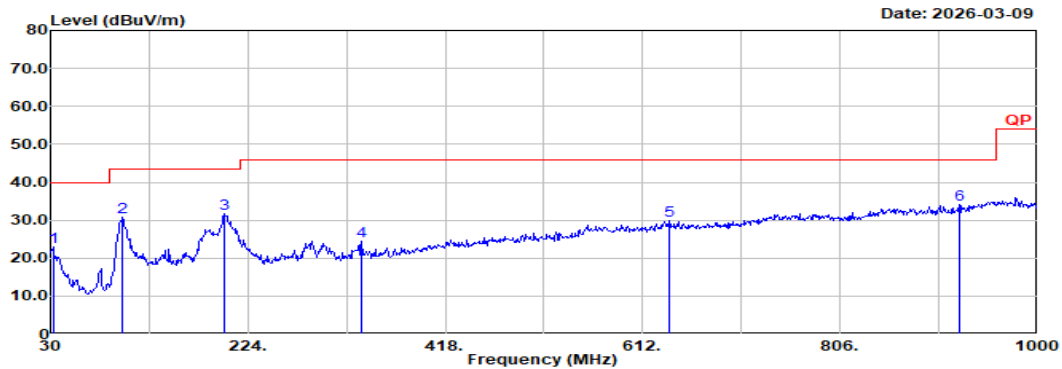
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Peak emission setting: RBW=120kHz; VBW = 300kHz.



CH09 Radiated Emissions (30MHz – 1GHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH20-HY
Condition : QP 3m Bilog_55606 & 08_251126 HORIZONTAL
Project : 503007
Detector : Peak
Channel : 09
Modulation : BPRF10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x06
Adaptive : 0x00
Calibration : 0x01

	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	32.91	22.89	40.00		-17.11	34.23	23.38	0.95	35.80	0.13	0.00	--	--	Peak
2	100.81	30.64	43.50		-12.86	48.69	15.77	1.75	35.69	0.12	0.00	--	--	Peak
3	200.72	31.56	43.50		-11.94	49.51	15.05	2.45	35.51	0.06	0.00	--	--	Peak
4	335.55	24.44	46.00		-21.56	36.32	19.96	3.21	35.18	0.13	0.00	--	--	Peak
5	638.19	29.95	46.00		-16.05	33.21	26.46	4.42	34.31	0.17	0.00	--	--	Peak
6	923.37	34.07	46.00		-11.93	32.42	29.32	5.36	33.28	0.25	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

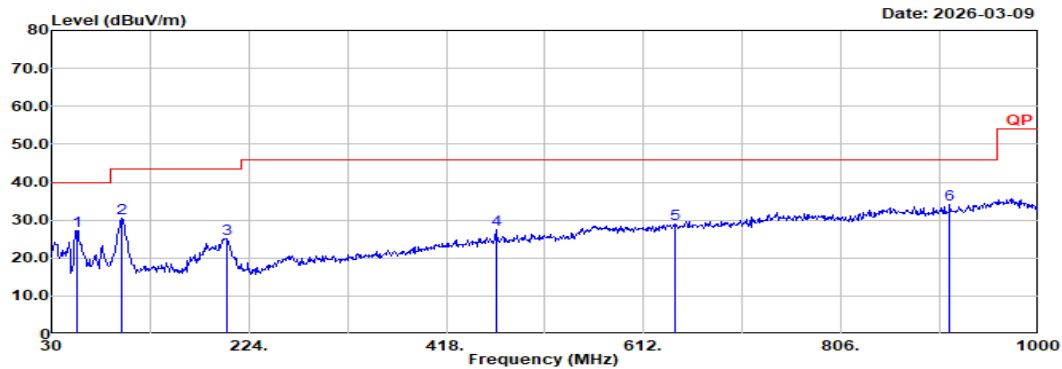
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Peak emission setting: RBW=120kHz; VBW = 300kHz.



CH09 Radiated Emissions (30MHz – 1GHz)

Test Mode	Mode 15	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH20-HY
Condition : QP 3m Bilog_55606 & 08_251126 VERTICAL
RBW:120.000kHz VBW:300.000kHz SWT:0.500sec
Project : 503007
Detector : Peak
Channel : 09
Modulation : BPRF10
Config : 3
STS Num : 1
Payload Length: 0
RMS Power : 0x06
Adaptive : 0x00
Calibration : 0x01

	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	Loss	Factor	Factor	Factor	cm	deg	
1	55.22	27.28	40.00		-12.72	48.75	12.87	1.27	35.76	0.15	0.00	--	--	Peak
2	98.87	30.63	43.50		-12.87	49.05	15.42	1.73	35.69	0.12	0.00	--	--	Peak
3	202.66	25.12	43.50		-18.38	43.00	15.09	2.47	35.50	0.06	0.00	--	--	Peak
4	466.50	27.58	46.00		-18.42	35.19	23.37	3.77	34.86	0.11	0.00	--	--	Peak
5	642.07	29.05	46.00		-16.95	32.24	26.50	4.44	34.30	0.17	0.00	--	--	Peak
6	912.70	34.24	46.00		-11.76	32.82	29.15	5.35	33.31	0.23	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

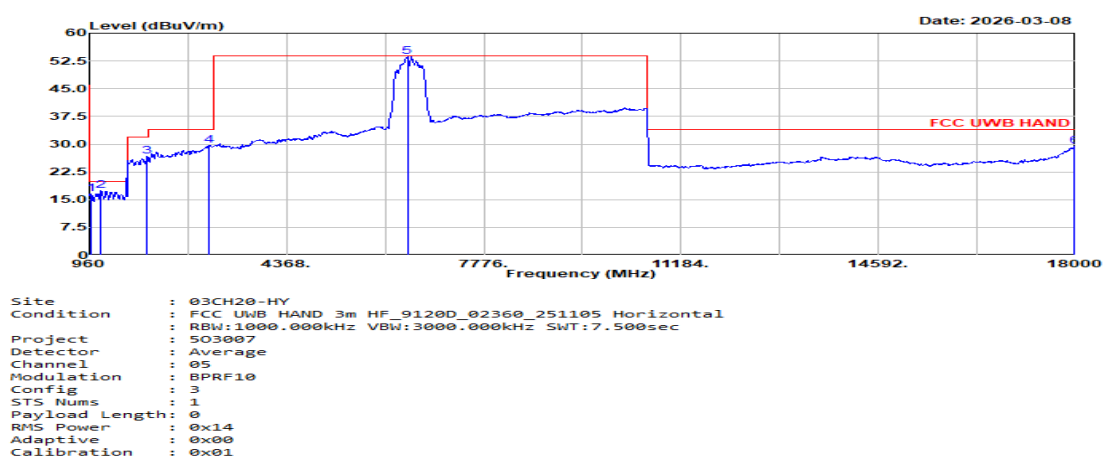
Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Peak emission setting: RBW=120kHz; VBW = 300kHz.

3.5.8 Radiated Emissions (960MHz – 18GHz)

CH05 Radiated Emissions (960MHz – 18GHz)			
Test Mode	Mode 6	Polarization	H
Operating Function	Adapter Mode		
Test Distance	The test distance between the receiving antenna and the EUT is as following: 3m for 1.61 GHz ~ 10.60 GHz frequency range, 1 m for 1GHz ~ 1.61 GHz, and 0.5 m for other frequency ranges.		



	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	977.96	16.51	19.93	-3.42	28.55	30.81	5.47	33.08	-15.56	0.32	--	--	Average
2	1162.26	17.36	19.93	-2.57	31.20	25.50	5.91	35.71	-9.54	0.00	--	--	Average
3	1954.28	26.70	31.93	-5.23	28.98	26.16	7.73	36.17	0.00	0.00	--	--	Average
4	3032.29	29.67	33.93	-4.26	26.18	29.70	9.86	36.07	0.00	0.00	--	--	Average
5	6452.50	53.61	53.93	-0.32	41.99	34.91	14.44	37.73	0.00	0.00	--	--	Average
6	17977.80	29.53	33.93	-4.40	24.07	41.81	24.79	45.58	-15.56	0.00	--	--	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.

Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.

Note 6: #5 is fundamental signal.

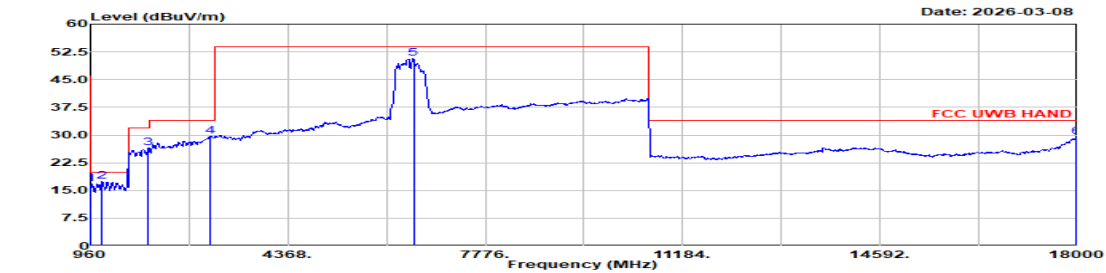
Note 7:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
Example: Distance extrapolation factor = $20 \log (0.5\text{m}/3\text{m}) = -15.56$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux Factor (dB) + Aux2 Factor (dB) = Level (dBuV/m)
(Note1: Aux Factor = Distance extrapolation factor)
(Note2: Aux2 Factor = Filter loss(dB))
Example: Corrected Reading: 30.81 (dB/m) + 5.47 (dB) + 28.55 (dBuV) - 33.08 (dB) + (-15.56) (dB) + 0.32 (dB) = 16.51 (dBuV/m)



CH05 Radiated Emissions (960MHz – 18GHz)

Test Mode	Mode 6	Polarization	V
Operating Function	Adapter Mode		
Test Distance	The test distance between the receiving antenna and the EUT is as following: 3m for 1.61 GHz ~ 10.60 GHz frequency range, 1 m for 1GHz ~ 1.61 GHz, and 0.5 m for other frequency ranges.		



Site : 03CH20-HY
Condition : FCC UWB HAND 3m HF_9120D_02360_251105 Vertical
Project : 503007
Detector : Average
Channel : 05
Modulation : BPRF10
Config : 3
STS Num : 1
Payload Length : 0
RMS Power : 0x14
Adaptive : 0x00
Calibration : 0x01

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	Level	Factor	Loss	Factor	Factor	Factor	cm	deg	
1	971.64	16.67	19.93	-3.26	28.50	31.05	5.46	33.10	-15.56	0.32	--	--	Average
2	1162.87	17.36	19.93	-2.57	31.20	25.50	5.91	35.71	-9.54	0.00	--	--	Average
3	1952.00	26.59	31.93	-5.34	26.85	26.18	7.73	36.17	0.00	0.00	--	--	Average
4	3027.85	29.62	33.93	-4.31	26.13	29.70	9.85	36.06	0.00	0.00	--	--	Average
5	6535.00	50.70	53.93	-3.23	38.49	35.38	14.57	37.74	0.00	0.00	--	--	Average
6	17985.20	29.49	33.93	-4.44	24.00	41.84	24.80	45.59	-15.56	0.00	--	--	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.

Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.

Note 6: #5 is fundamental signal.

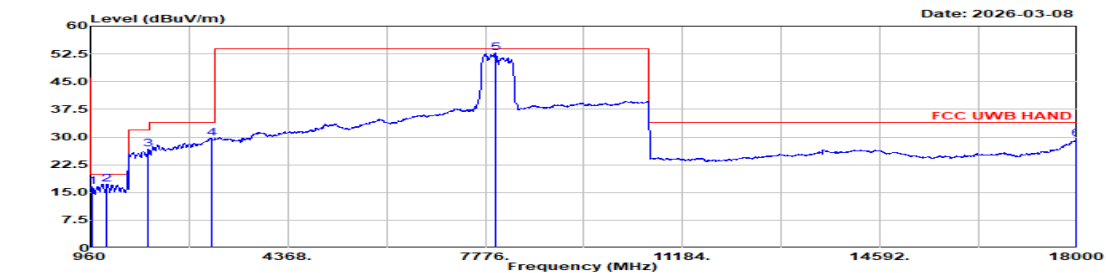
Note 7:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux Factor (dB) + Aux2 Factor (dB) = Level (dBuV/m)
(Note1: Aux Factor = Distance extrapolation factor)
(Note2: Aux2 Factor = Filter loss(dB))



CH09 Radiated Emissions (960MHz – 18GHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Adapter Mode		
Test Distance	The test distance between the receiving antenna and the EUT is as following: 3m for 1.61 GHz ~ 10.60 GHz frequency range, 1 m for 1GHz ~ 1.61 GHz, and 0.5 m for other frequency ranges.		



Site : 03CH20-HY
Condition : FCC UWB HAND 3m HF_9120D_02360_251105 Horizontal
Project : RBW:1000.000kHz VBW:3000.000kHz SWT:7.500sec
Detector : Average
Channel : 09
Modulation : BPRF10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x06
Adaptive : 0x00
Calibration : 0x01

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	979.12	16.56	19.93	-3.37	28.65	30.75	5.48	33.08	-15.56	0.32	--	--	Average
2	1245.22	17.32	19.93	-2.61	30.72	25.75	6.14	35.75	-9.54	0.00	--	--	Average
3	1955.04	26.62	31.93	-5.31	28.91	26.15	7.73	36.17	0.00	0.00	--	--	Average
4	3048.94	29.65	33.93	-4.28	26.16	29.70	9.89	36.10	0.00	0.00	--	--	Average
5	7945.00	52.77	53.93	-1.16	37.96	37.19	16.44	38.82	0.00	0.00	--	--	Average
6	17985.20	29.39	33.93	-4.54	23.90	41.84	24.80	45.59	-15.56	0.00	--	--	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.

Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.

Note 6: #5 is fundamental signal.

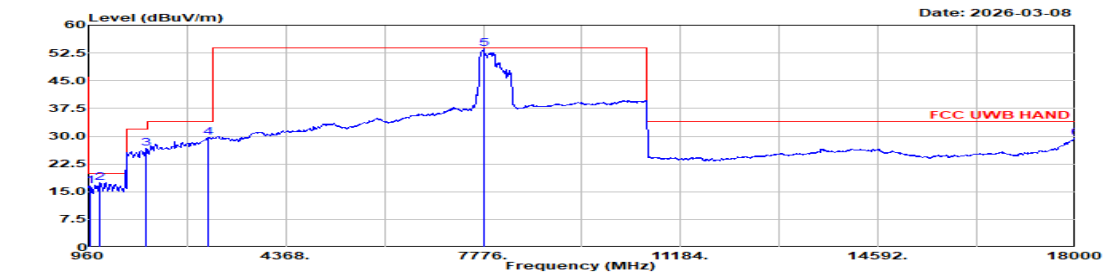
Note 7:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux Factor (dB) + Aux2 Factor (dB) = Level (dBuV/m)
(Note1: Aux Factor = Distance extrapolation factor)
(Note2: Aux2 Factor = Filter loss(dB))



CH09 Radiated Emissions (960MHz – 18GHz)

Test Mode	Mode 15	Polarization	V
Operating Function	Adapter Mode		
Test Distance	The test distance between the receiving antenna and the EUT is as following: 3m for 1.61 GHz ~ 10.60 GHz frequency range, 1 m for 1GHz ~ 1.61 GHz, and 0.5 m for other frequency ranges.		



Site : 03CH20-HY
Condition : FCC UWB HAND 3m HF_9120D_02360_251105 Vertical
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF10
Config : 3
STS Num : 1
Payload Length : 0
RIS Power : 0x06
Adaptive : 0x00
Calibration : 0x01

	Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	979.52	16.60	19.93	-3.33	28.70	30.73	5.48	33.07	-15.56	0.32	--	--	Average
2	1158.60	17.34	19.93	-2.59	31.18	25.51	5.90	35.71	-9.54	0.00	--	--	Average
3	1955.04	26.66	31.93	-5.27	28.95	26.15	7.73	36.17	0.00	0.00	--	--	Average
4	3035.62	29.64	33.93	-4.29	26.15	29.70	9.86	36.07	0.00	0.00	--	--	Average
5	7780.00	53.60	53.93	-0.33	38.92	36.82	16.54	38.68	0.00	0.00	--	--	Average
6	17992.60	29.45	33.93	-4.48	23.94	41.87	24.80	45.60	-15.56	0.00	--	--	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting outside GPS Bands: RBW=1MHz; VBW=3MHz.

Note 5: Average emission setting in GPS bands: RBW=1kHz; VBW=3kHz.

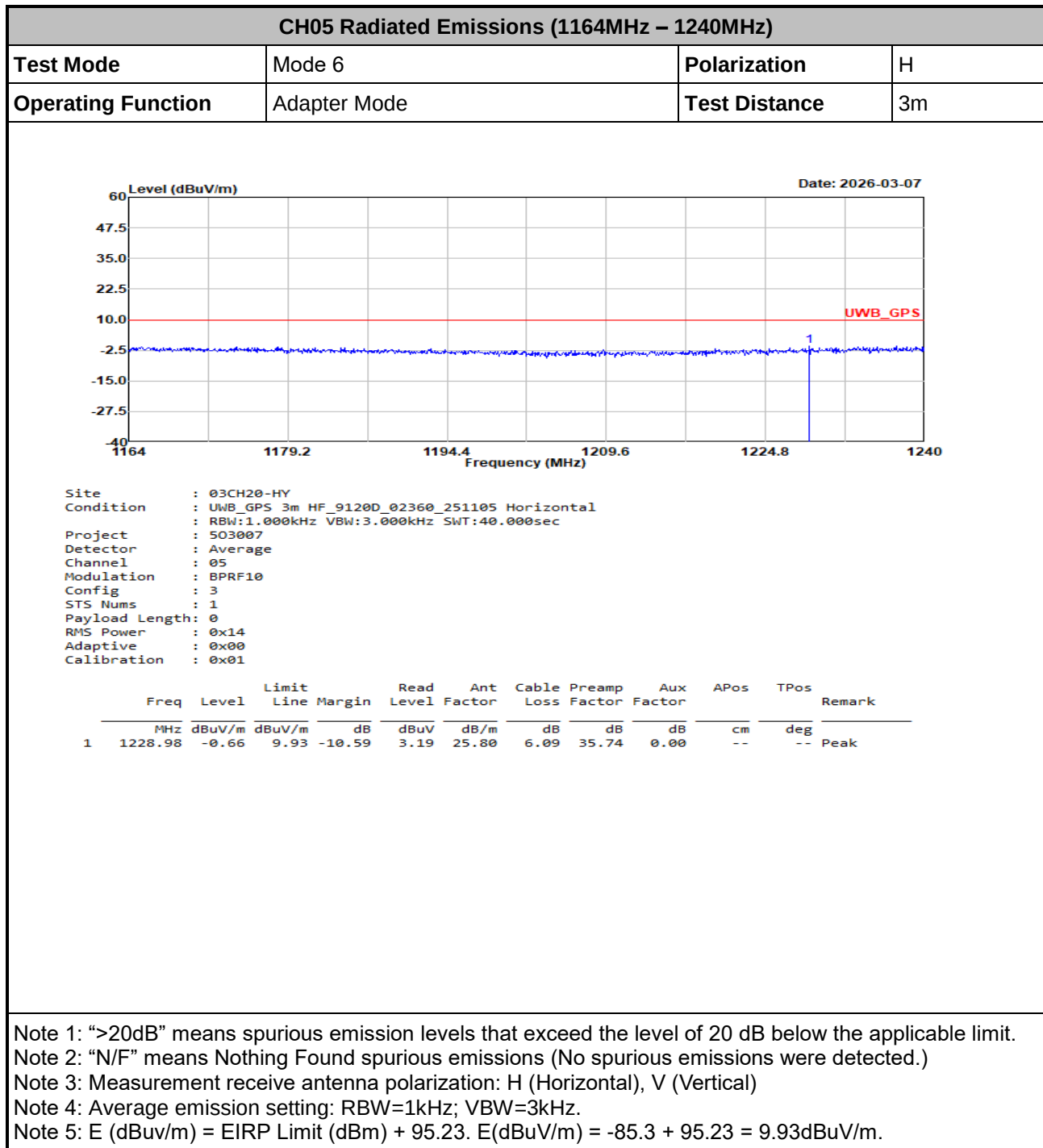
Note 6: #5 is fundamental signal.

Note 7:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux Factor (dB) + Aux2 Factor (dB) = Level (dBuV/m)
(Note1: Aux Factor = Distance extrapolation factor)
(Note2: Aux2 Factor = Filter loss(dB))



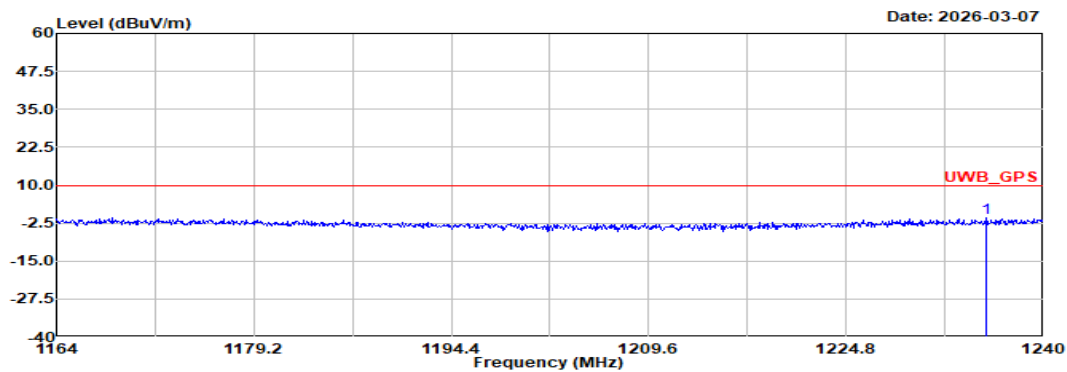
3.5.9 Radiated Emissions (1164MHz – 1240MHz)





CH05 Radiated Emissions (1164MHz – 1240MHz)

Test Mode	Mode 6	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH20-HY
Condition : UWB_GPS 3m HF_9120D_02360_251105 Vertical
Project : 503007
Detector : Average
Channel : 05
Modulation : BPRF10
Config : 3
STS Num : 1
Payload Length: 0
RMS Power : 0x14
Adaptive : 0x00
Calibration : 0x01

	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	1235.59	-0.79	9.93		-10.72	3.04	25.80	6.11	35.74	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

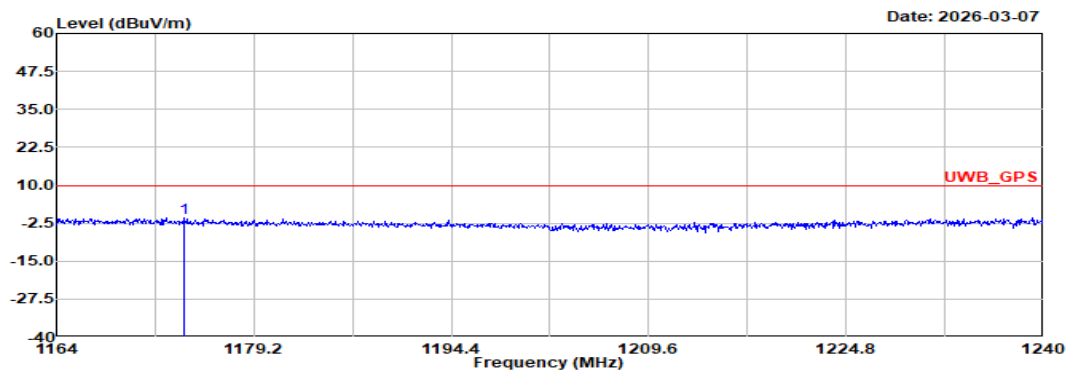
Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

Note 5: E (dBuV/m) = EIRP Limit (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.



CH09 Radiated Emissions (1164MHz – 1240MHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH20-HY
Condition : UWB_GPS 3m HF_9120D_02360_251105 Horizontal
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF10
Config : 3
STS Num : 1
Payload Length: 0
RMS Power : 0x06
Adaptive : 0x00
Calibration : 0x01

Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	1173.88	-0.67	9.93	-10.60	3.57	25.54	5.94	35.72	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

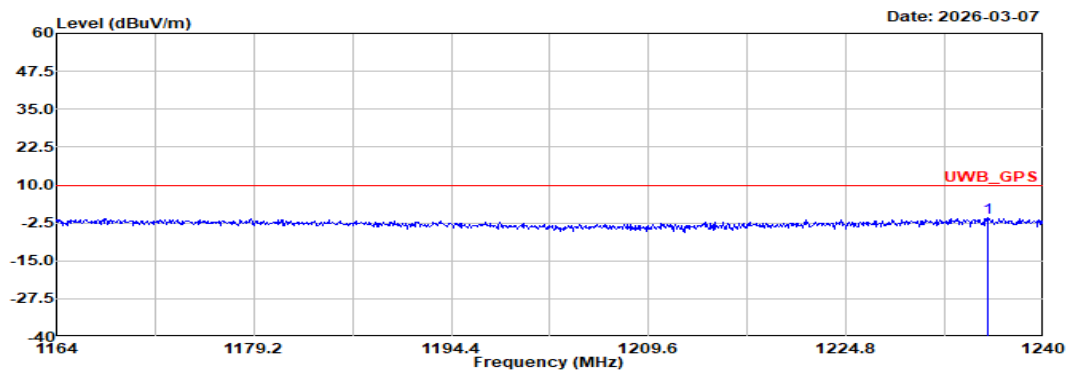
Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

Note 5: E (dBuV/m) = EIRP Limit (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.



CH09 Radiated Emissions (1164MHz – 1240MHz)

Test Mode	Mode 15	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH20-HY
Condition : UWB_GPS 3m HF_9120D_02360_251105 Vertical
RBW:1.000kHz VBW:3.000kHz SWT:40.000sec
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF10
Config : 3
STS Num : 1
Payload Length: 0
RMS Power : 0x06
Adaptive : 0x00
Calibration : 0x01

	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	1235.67	-0.88	9.93		-10.81	2.95	25.80	6.11	35.74	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

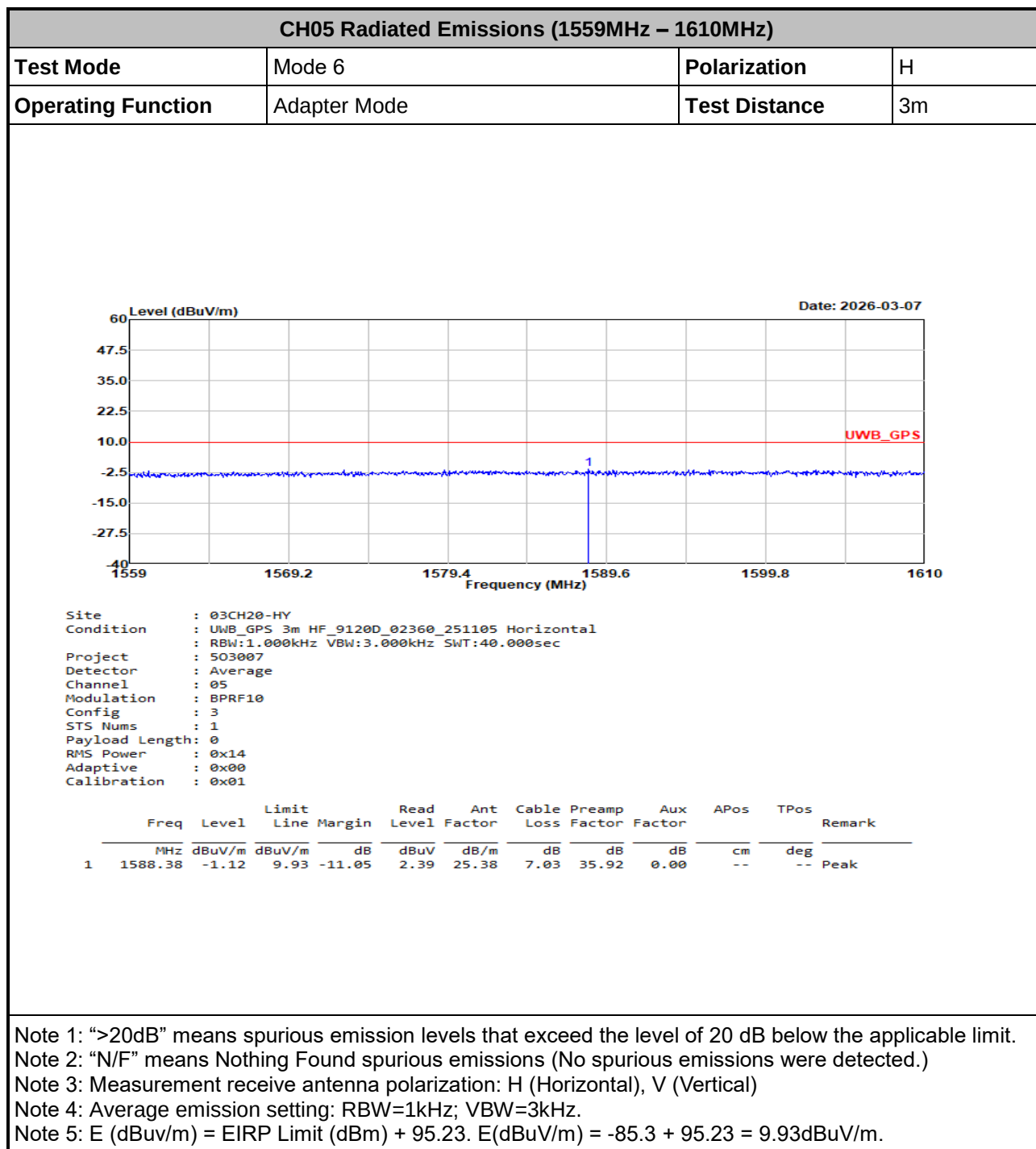
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

Note 5: E (dBuV/m) = EIRP Limit (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.



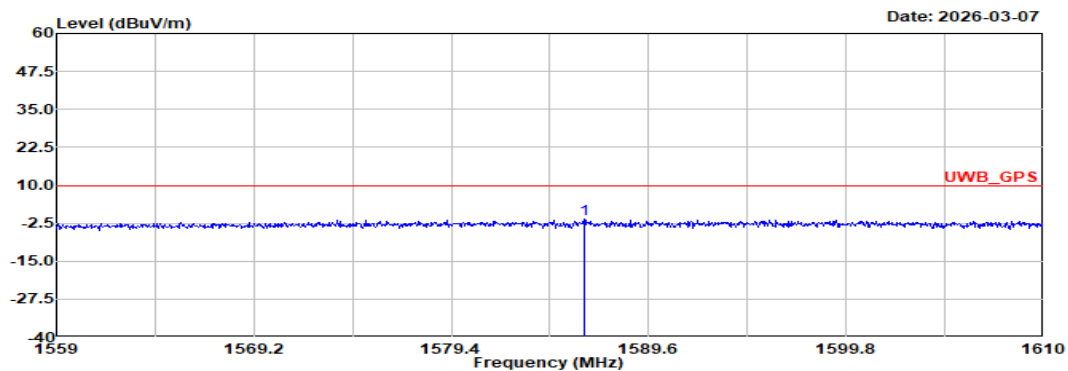
3.5.10 Radiated Emissions (1559MHz – 1610MHz)





CH05 Radiated Emissions (1559MHz – 1610MHz)

Test Mode	Mode 6	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH20-HY
Condition : UWB_GPS 3m HF_9120D_02360_251105 Vertical
Project : 503007
Detector : Average
Channel : 05
Modulation : BPRF10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x14
Adaptive : 0x00
Calibration : 0x01

	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	1586.23	-1.03	9.93		-10.96	2.50	25.36	7.03	35.92	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

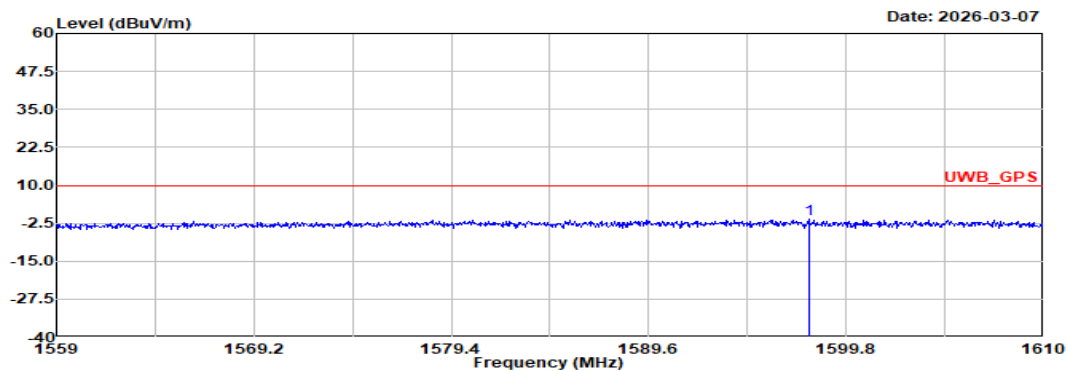
Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

Note 5: E (dBuV/m) = EIRP Limit (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.



CH09 Radiated Emissions (1559MHz – 1610MHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH20-HY
Condition : UWB_GPS 3m HF_9120D_02360_251105 Horizontal
 : RBW:1.000kHz VBW:3.000kHz SWT:40.000sec
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF10
Config : 3
STS Num : 1
Payload Length: 0
RMS Power : 0x06
Adaptive : 0x00
Calibration : 0x01

	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	1597.86	-1.27	9.93		-11.20	2.28	25.32	7.06	35.93	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

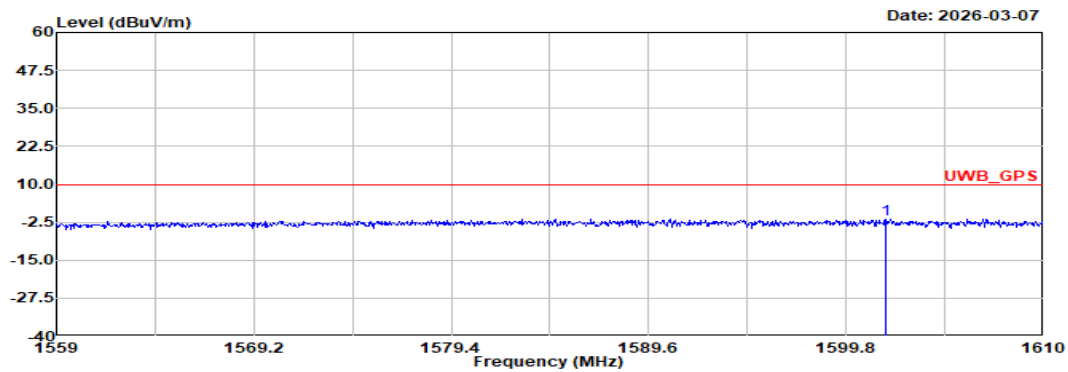
Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

Note 5: E (dBuV/m) = EIRP Limit (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.



CH09 Radiated Emissions (1559MHz – 1610MHz)

Test Mode	Mode 15	Polarization	V
Operating Function	Adapter Mode	Test Distance	3m



Site : 03CH20-HY
Condition : UWB_GPS 3m HF_9120D_02360_251105 Vertical
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF10
Config : 3
STS Num : 1
Payload Length: 0
RMS Power : 0x06
Adaptive : 0x00
Calibration : 0x01

	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	1601.84	-1.36	9.93		-11.29	2.23	25.28	7.06	35.93	0.00	--	--	Peak

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

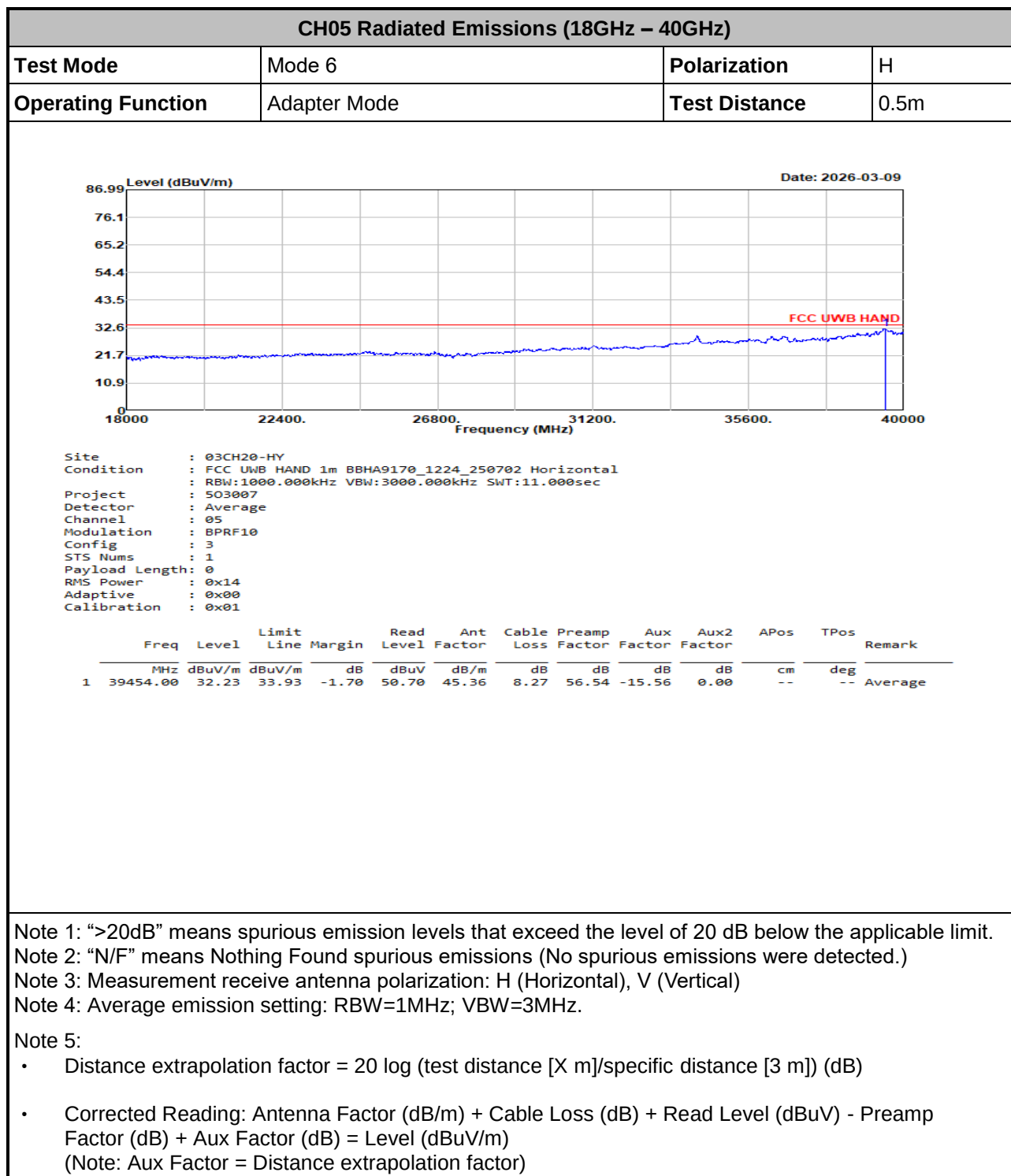
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1kHz; VBW=3kHz.

Note 5: E (dBuV/m) = EIRP Limit (dBm) + 95.23. E(dBuV/m) = -85.3 + 95.23 = 9.93dBuV/m.



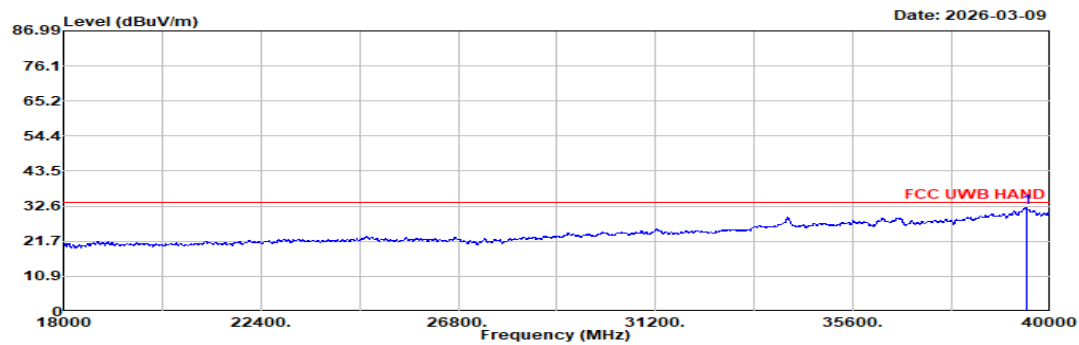
3.5.11 Radiated Emissions (18GHz – 40GHz)





CH05 Radiated Emissions (18GHz – 40GHz)

Test Mode	Mode 6	Polarization	V
Operating Function	Adapter Mode	Test Distance	0.5m



Site : 03CH20-HY
Condition : FCC UWB HAND 1m BBHA9170_1224_250702 Vertical
Project : 503007
Detector : Average
Channel : 05
Modulation : BPRF10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x14
Adaptive : 0x00
Calibration : 0x01

Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	Average
1 39454.00	32.09	33.93	-1.84	50.56	45.36	8.27	56.54	-15.56	0.00	--	--	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1MHz; VBW=3MHz.

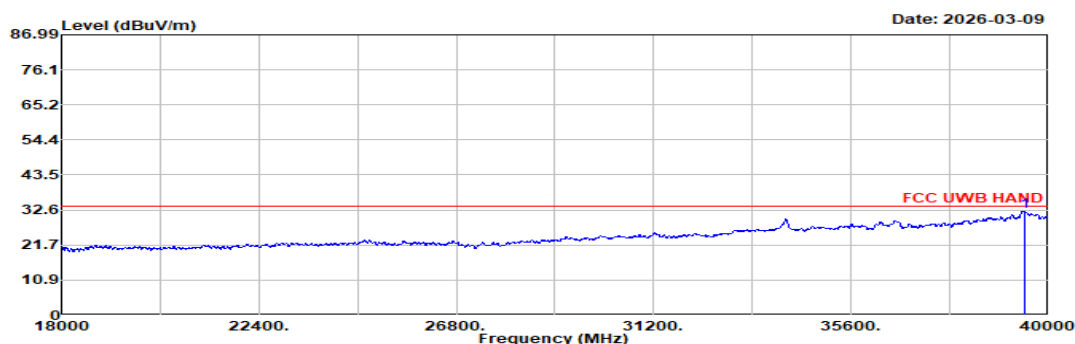
Note 5:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux Factor (dB) = Level (dBuV/m)
(Note: Aux Factor = Distance extrapolation factor)



CH09 Radiated Emissions (18GHz – 40GHz)

Test Mode	Mode 15	Polarization	H
Operating Function	Adapter Mode	Test Distance	0.5m



Site : 03CH20-HY
Condition : FCC UWB HAND 1m BBHA9170_1224_250702 Horizontal
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x06
Adaptive : 0x00
Calibration : 0x01

Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
MHz	dBuV/m	dBuV/m		dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1 39454.00	32.24	33.93		-1.69	50.71	45.36	8.27	56.54	-15.56	0.00	--	--	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1MHz; VBW=3MHz.

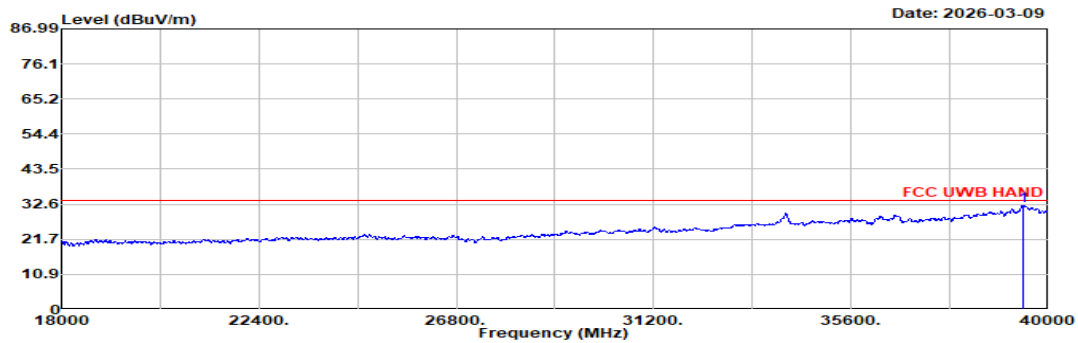
Note 5:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux Factor (dB) = Level (dBuV/m)
(Note: Aux Factor = Distance extrapolation factor)



CH09 Radiated Emissions (18GHz – 40GHz)

Test Mode	Mode 15	Polarization	V
Operating Function	Adapter Mode	Test Distance	0.5m



Site : 03CH20-HY
Condition : FCC UWB HAND 1m BBHA9170_1224_250702 Vertical
Project : 503007
Detector : Average
Channel : 09
Modulation : BPRF10
Config : 3
STS Nums : 1
Payload Length: 0
RMS Power : 0x06
Adaptive : 0x00
Calibration : 0x01

Freq	Level	Limit	Margin	Read	Ant	Cable	Preamp	Aux	Aux2	APos	TPos	Remark
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1 39440.00	32.26	33.93	-1.67	50.84	45.26	8.27	56.55	-15.56	0.00	--	--	Average

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

Note 4: Average emission setting: RBW=1MHz; VBW=3MHz.

Note 5:

- Distance extrapolation factor = $20 \log (\text{test distance [X m]}/\text{specific distance [3 m]})$ (dB)
- Corrected Reading: Antenna Factor (dB/m) + Cable Loss (dB) + Read Level (dBuV) - Preamp Factor (dB) + Aux Factor (dB) = Level (dBuV/m)
(Note: Aux Factor = Distance extrapolation factor)



4 Test Equipment and Calibration Data

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 16, 2025	Mar. 01, 2026 ~ Mar. 09, 2026	Oct. 15, 2026	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Dec. 11, 2025	Mar. 01, 2026 ~ Mar. 09, 2026	Dec. 10, 2026	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060801	18GHz~40GHz	May. 26, 2025	Mar. 01, 2026 ~ Mar. 09, 2026	May. 25, 2026	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Mar. 01, 2026 ~ Mar. 09, 2026	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Mar. 01, 2026 ~ Mar. 09, 2026	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Mar. 01, 2026 ~ Mar. 09, 2026	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	10Hz~44GHz	Dec. 10, 2025	Mar. 01, 2026 ~ Mar. 09, 2026	Dec. 09, 2026	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00802N1D01N-06	47020 & 06	30MHz~1GHz	Oct. 04, 2025	Mar. 01, 2026 ~ Mar. 09, 2026	Oct. 03, 2026	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	02360	1GHz-18GHz	Nov. 05, 2025	Mar. 01, 2026 ~ Mar. 09, 2026	Nov. 04, 2026	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	1224	18GHz-40GHz	Jul. 02, 2025	Mar. 01, 2026 ~ Mar. 09, 2026	Jul. 01, 2026	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Dec. 30, 2025	Mar. 01, 2026 ~ Mar. 09, 2026	Dec. 29, 2026	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45SE	980792	N/A	Nov. 11, 2025	Mar. 01, 2026 ~ Mar. 09, 2026	Nov. 10, 2026	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,8040 15/2,804027/2	N/A	Jan. 15, 2026	Mar. 01, 2026 ~ Mar. 09, 2026	Jan. 14, 2027	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211382	N/A	Mar. 31, 2025	Mar. 01, 2026 ~ Mar. 09, 2026	Mar. 30, 2026	Radiation (03CH20-HY)
Software	Audix	N/A	RK-002156	N/A	N/A	Mar. 01, 2026 ~ Mar. 09, 2026	N/A	Radiation (03CH20-HY)
AC Power Source	ACPOWER	AFC-11003G	F317040033	N/A	N/A	Mar. 12, 2026	N/A	Conduction (CO07-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Mar. 12, 2026	N/A	Conduction (CO07-HY)
Pulse Limiter	SCHWARZBECK	VTSD 9561-F N	9561-F N00373	9kHz-200MHz	Oct. 20, 2025	Mar. 12, 2026	Oct. 19, 2026	Conduction (CO07-HY)
RF Cable	HUBER + SUHNER	RG 214/U	1358175	9kHz~30MHz	Mar. 02, 2026	Mar. 12, 2026	Mar. 01, 2027	Conduction (CO07-HY)
Two-Line V-Network	TESEQ	NNB 51	45051	N/A	Mar. 24, 2025	Mar. 12, 2026	Mar. 23, 2026	Conduction (CO07-HY)
Four-Line V-Network	TESEQ	NNB 52	36122	N/A	Mar. 26, 2025	Mar. 12, 2026	Mar. 25, 2026	Conduction (CO07-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102317	9kHz~3.6GHz	Oct. 21, 2025	Mar. 12, 2026	Oct. 20, 2026	Conduction (CO07-HY)

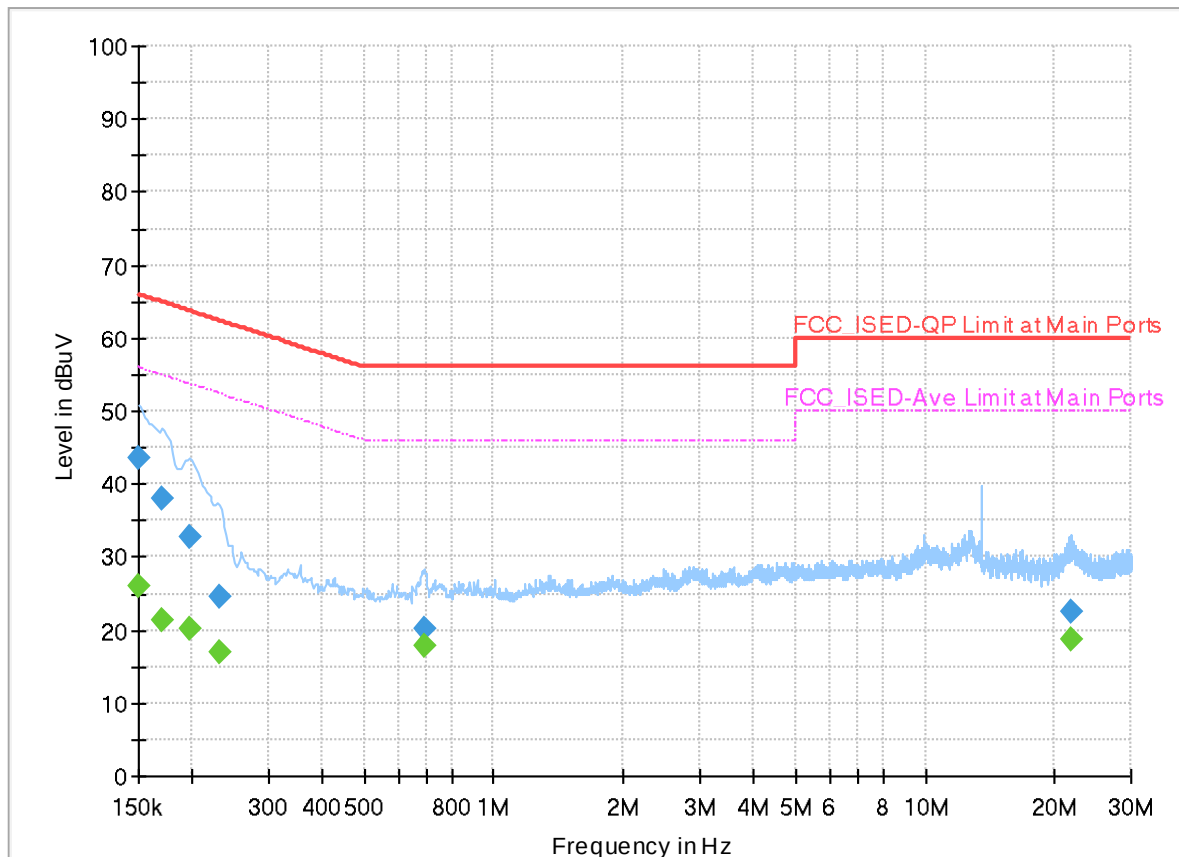


Appendix A. AC Conducted Emission Test Results

EUT Information

Report NO : 503007
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Line

Full Spectrum



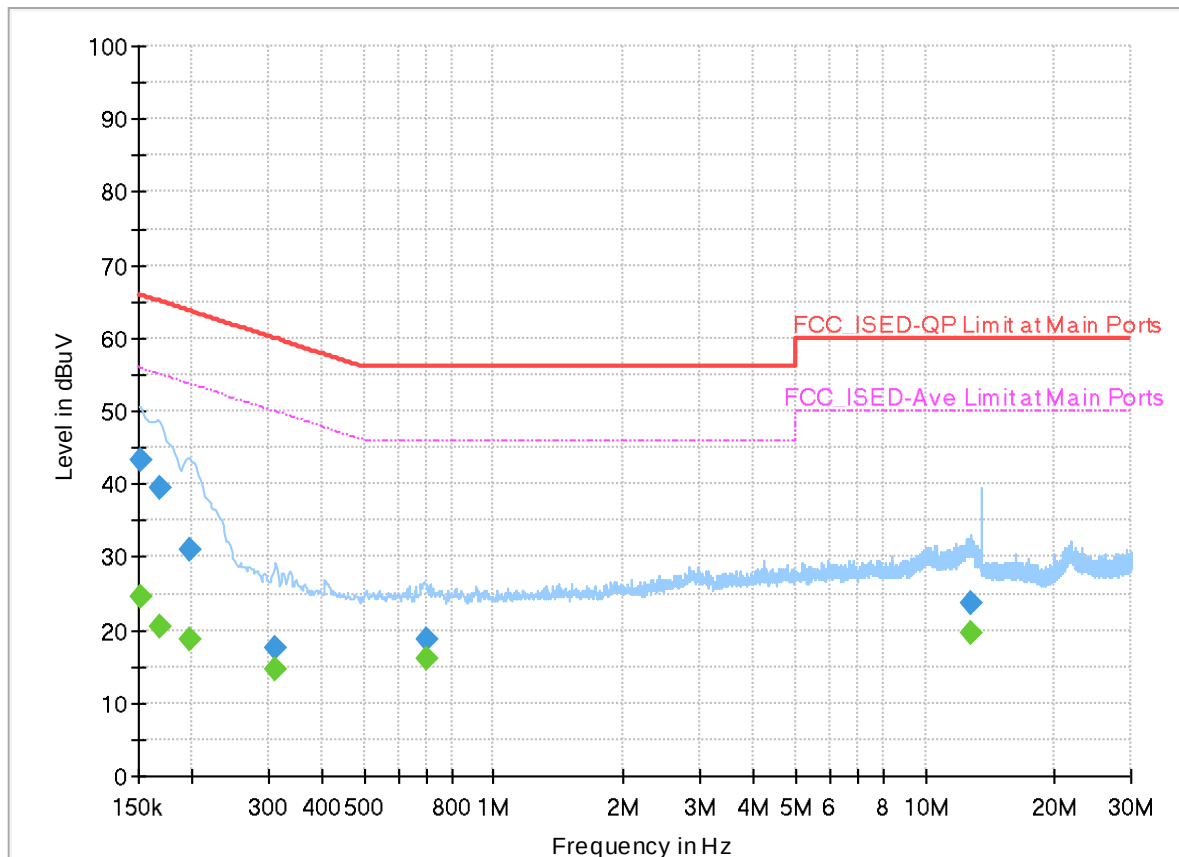
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.150000	---	25.92	56.00	30.08	L1	ON	20.0
0.150000	43.66	---	66.00	22.34	L1	ON	20.0
0.170250	---	21.33	54.95	33.62	L1	ON	20.0
0.170250	37.92	---	64.95	27.03	L1	ON	20.0
0.197250	---	20.04	53.73	33.69	L1	ON	20.0
0.197250	32.62	---	63.73	31.11	L1	ON	20.0
0.231000	---	16.88	52.41	35.53	L1	ON	20.0
0.231000	24.67	---	62.41	37.74	L1	ON	20.0
0.687750	---	17.77	46.00	28.23	L1	ON	20.0
0.687750	20.28	---	56.00	35.72	L1	ON	20.0
21.745500	---	18.75	50.00	31.25	L1	ON	20.9
21.745500	22.64	---	60.00	37.36	L1	ON	20.9

EUT Information

Report NO : 5O3007
Test Mode : Mode 1
Test Voltage : 120Vac/60Hz
Phase : Neutral

Full Spectrum



Final_Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.152250	---	24.66	55.88	31.22	N	ON	20.0
0.152250	43.30	---	65.88	22.58	N	ON	20.0
0.168000	---	20.59	55.06	34.47	N	ON	20.0
0.168000	39.37	---	65.06	25.69	N	ON	20.0
0.197250	---	18.64	53.73	35.09	N	ON	20.0
0.197250	31.12	---	63.73	32.61	N	ON	20.0
0.312000	---	14.68	49.92	35.24	N	ON	20.0
0.312000	17.59	---	59.92	42.33	N	ON	20.0
0.694500	---	16.12	46.00	29.88	N	ON	20.0
0.694500	18.82	---	56.00	37.18	N	ON	20.0
12.747750	---	19.66	50.00	30.34	N	ON	20.6
12.747750	23.71	---	60.00	36.29	N	ON	20.6