

: 14800200H-D-R1 : 1 of 38

RADIO TEST REPORT

Test Report No.: 14800200H-D-R1

Customer	silex technology, Inc.
Description of EUT	Wireless E84 Digital Communication Device
Model Number of EUT	WDCD-3310
FCC ID	N6C-WDCD3310H
Test Regulation	FCC Part 15 Subpart E
Test Result	Complied (Refer to SECTION 3)
Issue Date	August 1, 2023
Remarks	-

Representative Test Engineer	Approved By
Kone	S. Matsuyama
Nachi Konegawa Engineer	Satofumi Matsuyama Engineer
	INC-MRA ACCREDITED
	CERTIFICATE 5107.02

The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan, Inc.

There is no testing item of "Non-accreditation".

Report Cover Page - Form-ULID-003532 (DCS:13-EM-F0429) Issue# 22.0

Test Report No. : 14800200H-D-R1 Page : 2 of 38

ANNOUNCEMENT

- This test report shall not be reproduced in full or partial, without the written approval of UL Japan, Inc.
- The results in this report apply only to the sample tested. (Laboratory was not involved in sampling.)
- This sample tested is in compliance with the limits of the above regulation.
- The test results in this test report are traceable to the national or international standards.
- This test report must not be used by the customer to claim product certification, approval, or endorsement by the A2LA accreditation body.
- This test report covers Radio technical requirements.
 It does not cover administrative issues such as Manual or non-Radio test related Requirements. (if applicable)
- The all test items in this test report are conducted by UL Japan, Inc. Ise EMC Lab.
- The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan, Inc. has been accredited.
- The information provided from the customer for this report is identified in Section 1.
- For test report(s) referred in this report, the latest version (including any revisions) is always referred.

REVISION HISTORY

Original Test Report No.: 14800200H-D

This report is a revised version of 14800200H-D. 14800200H-D is replaced with this report.

Revision	Test Report No.	Date	Page Revised Contents
- (Original)	14800200H-D	June 27, 2023	-
1	14800200H-D-R1	August 1, 2023	SECTION 2.2: Product Description
			Correction of Frequency of Operation
			5731 MHz to 5872 MHz \rightarrow 5731 MHz to 5849 MHz
			OFOTION O O D
			SECTION 3.2: Procedures and Results Change of Warst Marsin for Conducted Emission
			Change of Worst Margin for Conducted Emission 5.09 dB, 15.75960 MHz, N, AV →
			4.91 dB, 15.75959 MHz, N, AV →
			4.91 db, 13.73939 MHz, N, AV
			SECTION 4: Operation of EUT during testing
			*The details of Operation mode(s);
			-Correction of Tested Frequency for 99 % Occupied Bandwidth, 6 dB
			Bandwidth, etc.
			5531 MHz → 5731 MHz
			-Deletion of below tested frequency.
			5850 MHz, 5861 MHz, 5872 MHz
			SECTION 6: Redicted Spurious Emission and Rand Edge Compliance
			SECTION 6: Radiated Spurious Emission and Band Edge Compliance Deletion of sentence for W59 Bandedge.
			Deletion of sentence for W33 bandeage.
			APPENDIX 1: Test Data
			-Conducted Emission
			Replacement of test data for Conducted Emission
			-6 dB Emission Bandwidth and 99 % Occupied Bandwidth
			-Maximum Conducted Output Power
			- Radiated Spurious Emission
			Deletion of test data for below frequencies.
			5850 MHz, 5861 MHz, 5872 MHz
			Maximum Conducted Output Power
			-Maximum Conducted Output Power Correction of Applied limit
			Applied limit: 15.407, indoor access point →
			Applied limit: 15.407, indoor access point → Applied limit: 15.407, access point
			7 Applied IIIII. 10.107, doodoo poliit
			Changed the display to the third decimal place of Result [mW] for Power
			setting (-20 dBm).
			Correction of MHz value to kHz value for 99% OBW.

Test Report No. : 14800200H-D-R1 Page : 3 of 38

Reference: Abbreviations (Including words undescribed in this report)

AC Alternating Current AFH Adaptive Frequency Hopping IEEE Electrolacid Commission Amy Amplitude Modulation IF Institute of Electrical and Electronics Engineers Amy Amplitude Modulation IF Intermediate Frequency Amp, AMP Amplitide Amplitude Modulation IF Intermediate Frequency Amp, AMP Amplitide Amplitude National Standards Institute ISED Intermediate Frequency ILAC Illemantional Laboratory Intermediate Frequency Intermediate Frequency ILAC Illemantional Standards Institute ISED Intermediate Frequency Intermediate Intermediators Intermediate Frequency Intermediate Intermediators	A2LA	The American Association for Laboratory Accreditation	ICES	Interference-Causing Equipment Standard
AM Amplitude Modulation AM Amplitude Modulation Ant, ANT Antenna Access Point Antenna Ask Amplitude Shift Keying Lan Local Area Network Laboratory Information Ask Amplitude Shift Keying Lan Local Area Network Laboratory Information Modulation and Coding Scheme Mrsa Mutual Recognition Arrangement Bra Biluetooth Basic Rate Mrsa Biluetooth Modulation and Coding Scheme Mrsa Mutual Recognition Arrangement Mistorial Institute of Standards and Technology No signal detect. No signal detect. No mornalized Site Attenuation National Notinitate of Standards and Technology No signal detect. No mornalized Site Attenuation National Notinitate of Standards and Technology No signal detect. No mornalized Site Attenuation National Notinitate of Standards and Technology No signal detect. No mornalized Site Attenuation National Notinitaty Laboratory Accreditation Program CCK Complementary Code Keying Doppid Complementary Code Complementary Code Keying Complementary Code Keying Doppid Code Complementary Code Co	AC	Alternating Current	IEC	Commission
Amp, AMP Amplifier Amsil American National Standards Institute American National Organization for Standards International Organization for Standards International Organization for Standards National Organization of Standards National Organization of Standards National Organization for Standards National Organization for Standards National Organization for Standards National Organization for Standards National International Organization International International Organization International Organization International International Organization I	AFH	Adaptive Frequency Hopping	IEEE	
Ant, ANT American National Standards Institute Ant, ANT Antenna ARS Armplitude Shift Keying Atten, ATT Attenuator Attenuator Attenuator Average MCS Modulation and Coding Scheme BPSK Binary Phase-Shift Keying BI Bluetooth Basic Rate N/A Not Applicable BI Bluetooth Basic Rate BI Bluetooth Low Energy BI Bluetooth NiST BI Bluetooth Low Energy BI Bluetooth Low Energy BI Shand Width Ass A Normalized Site Attenuation CCK Complementary Code Keying CCK Complementary Code Keying CDF M Motional Institute of Standards and Technology CLIP Comition Interval CCK Complementary Code Keying CDF M Motional Midth CISPR Comition Interval COST Direct Courrent DF PK Peak DF Direct Courrent DFS Dynamic Frequency Selection DFS Dynamic Frequency Selection DFS Dynamic Frequency Selection DFS Dynamic Frequency Selection DRSS Differential OPSK PRB PRBS Pseudo-Random Noise BR BI Blue Normalized Site Attenuation REPART Physical Layer Power Packet Error Rate DRSS Differential OPSK PRB Paseudo random Noise DRSS Differential OPSK DIFF Entitial OPSK PRB Paseudo random Noise DRSS Differential OPSK PRB Paseudo random Noise BR BI Bluetooth Normalized Selection REPART Prower Special Density EMC ElectroMagnetic Interference REPART Radio Equipment EU European Norm REPART Radio Equipment REPART Radio Equipment ANTA Not Applicable And Quadri-Phase Shift Keying REPART Radio Equipment REPART RAGIO Energator	AM	Amplitude Modulation	IF	Intermediate Frequency
Ant, ANT Antenna Antenna Startuards institute Ant, ANT Antenna ISO Development Canada International Organization for Standardization AP Access Point JAB Japan Accreditation Board ASK Amplitude Shift Keying LAN Local Area Network Atten., ATT Attenuator LIMS Management System AV Average MCS Modiation and Goding Scheme BPSK Binary Phase-Shift Keying MRA Mutual Recognition Arrangement BR Bluetooth Basic Rate N/A Not Applicable BT Bluetooth Basic Rate N/A Not Applicable BT Bluetooth Low Energy NS No signal detect. BW BandWidth NSA Normalized Site Attenuation NSA Normalized Site Attenuation Cal Int Calibration Interval CCK Complementary Code Keying OBW Occupied Band Width Program CCK Complementary Code Keying OBW Occupied Band Width Program CCK Complementary Code Keying OFDM Orthogonal Tequency Division Multiplexing CISPR Comite International Special des Perturbations Radioelectriques P/M Power meter CW Continuous Wave PCB Printed Circuit Board DBPSK Differential BPSK PER Packet Error Rate DC Direct Current PHY Physical Layer D-factor Distance factor PK Pesak DSSS Direct Sequence Spread Spectrum PSD Power New Pseudor Androm Bit Sequence DBPSK Differential CPSK PRBS Pseudo-Random Bit Sequence BPSR Quivalent Isotropically Radiated Power QP Quasi-Peak EMC ElectroMagnetic Compatibility QPSK Quadri-Phase Shift Keying EMR ElectroMagnetic Interference RBW Resolution Band Width END European Norm RBS Radio Standards Specifications FRF, E., p. Effective Radiated Power EMC ElectroMagnetic Interference RBW Resolution Band Width END European Norm RBS Radio Standards Specifications FRF, E., p. Effective Radiated Power EMF Radio Equipment Under Test RMS Root Mean Square FRF, E., p. Effective Radiated Power EMF Receiving Spread Spectrum SA, SiA Spectrum Analyzer FRF, E., p. Effective Radiated Power EMF Receiving Spread Spectrum SA, SiA Spectrum Analyzer FRF Radio Standards Specifications FRF Radio Equipment View View SWF Site Voltage Standing Wave Ratio FRF Requency Shift Keying TR Transmitting	Amp, AMP	Amplifier	ILAC	Accreditation Conference
APP Access Point APP Access Point ASK Amplitude Shift Keying Atten, ATT Attenuator Attenuator Attenuator AV Average BPSK Binary Phase-Shift Keying BPSK Binary Phase-Shift Keying BT Bluetooth Basic Rate BT Bluetooth Basic Rate BT Bluetooth Basic Rate BT Bluetooth Basic Rate BT Bluetooth Low Energy BT LE Bluetooth Low Energy BW BandWidth NSA Normalized Site Attenuation CCK Complementary Code Keying CCK Complementary Code Keying CCK Complementary Code Keying CISPR Comite International Special des Perturbations Radioelectriques CW Continuous Wave DBPSK Differential BPSK DC Direct Current Dractor Distance factor DFS Dynamic Frequency Selection DPSK Differential CPSK Drynamic Frequency Selection DPSS Direct Sequence Spread Spectrum EIRP, e.r.p. Equivalent Interference BMC ElectroMagnetic Community EMC ElectroMagnetic Companibility EMC ElectroMagnetic Companibility EMC ElectroMagnetic Companibility EMC ElectroMagnetic Interference BMC ElectroMagnetic Companibility EMC ElectroMagnetic Companibility EMC ElectroMagnetic Interference BMC ElectroMagnetic Companibility EMC ElectroMagnetic Interference EMC ElectroMagnetic Companibility EMC Elect	ANSI	American National Standards Institute	ISED	Development Canada
ASK Amplitude Shift Keying Atten, ATT Attenuator Attenuator Av Average BPSK Binary Phase-Shift Keying BI Bluetooth Basic Rate BT Bluetooth Basic Rate BT Bluetooth Low Energy BT Bluetooth Low Energy BW BandWidth NSA Normalized Site Attenuation Cal litt Calibration Interval CCK Complementary Code Keying CCK Complementary Code Keying CCK Complementary Code Keying COR COR COR COR COR COR COR CO	Ant, ANT	Antenna	ISO	
Atten, ATT Attenuator LIMS Laboratory Information Management System NV Average MCS Modulation and Coding Scheme BPSK Binary Phase-Shift Keying MRA Mutual Recognition Arrangement MRA Mutual Recognition Arrangement MRA Mutual Recognition Arrangement NIA Not Applicable NIST Bluetooth Basic Rate NIA Not Applicable NIST National Institute of Standards and Technology Nos Signal detect. BW Bluetooth Low Energy NS Nos Signal detect. BW BandWidth NSA Normalized Site Attenuation NIA Normalized Site Attenuation NIA Normalized Site Attenuation NIA Normalized Site Attenuation NIA Normalized Site Attenuation OFOM NIA Normalized Site Attenuation NIA Normalized Site Attenuation OFOM Orthogonal Frequency Division NIA Normalized Site Attenuation OFOM Orthogonal Frequency Division Multiplexing OFOM OFOM Orthogonal Frequency Division Multiplexing OFOM OFOM OFT	AP	Access Point	JAB	Japan Accreditation Board
AV Average BPSK Binary Phase-Shift Keying BR Bluetooth Basic Rate BT Bluetooth Basic Rate BT Bluetooth Basic Rate BT Bluetooth Low Energy BB BandWidth Cal Int Calibration Interval CCK Complementary Code Keying CCK Complementary Code Keying CCK Complementary Code Keying Ch., CH Channel Channel COMITE International Special des Perturbations Radioelectriques CW Continuous Wave DBPSK Differential BPSK Direct Current D-factor Direct Sequence Spread Spectrum PSD Direct Sequence Spread Spectrum PSD Power Special Density EDR Enhanced Data Rate EliRP, e.i.r.p. Equivalent Instruction Band Width ElectroMagnetic Compatibility ElectroMagnetic Interference RBW Resolution Band Width RDS Radio Frequency FRS Radio Frequency FRS Radio Frequency FRS Radio Frequency FRS Radio Squipment FRC Frequency FRS Radio Squipment FRC Frequency FRS Frequency Frequency SysWirk Frequency SysWirk Frequency SysWirk Frequency Shift Keying FRS Radio Squipment FRC Frequency FRS Radio Frequency FRS Frequency SysWirk Frequency Frequency Frequency Frequency Frequency Frequency Frequency Frequency Frequency SysWirk Frequency	ASK	Amplitude Shift Keying	LAN	
BPSK Binary Phase-Shift Keying MRA Mutual Recognition Arrangement BR Bluetooth Basic Rate N/A Not Applicable BT Bluetooth Basic Rate N/A Not Applicable BT Bluetooth Britan Biluetooth Size Attenuation Nist Bluetooth Low Energy NS No signal detect. BW BandWidth NSA Normalized Site Attenuation Notal Institute of Standards and Technology To Standards and Technology NS No signal detect. BW BandWidth NSA Normalized Site Attenuation National Voluntary Laboratory Accreditation Interval NVLAP Accreditation Program Of Demonstration Program Of Demon	Atten., ATT	Attenuator	LIMS	
BR Bluetooth Basic Rate N/A Not Applicable BT Bluetooth Brit Bluetooth NisT Technology BT LE Bluetooth Low Energy NS NS No signal detect. BW BandWidth NSA Nosignal detect. Cal Int Calibration Interval NVLAP National Institute of Standards and Technology CCK Complementary Code Keying OBW Occupied Band Width Ch., CH Channel OFDM Nutlipaking CISPR Comite International Special des Perturbations Radioelectriques P/M Power meter CW Continuous Wave PCB Printed Circuit Board DBPSK Differential BPSK PEP Packet Error Rate DC Direct Current PHY Physical Layer D-factor Distance factor PK Peak DCPSK Differential OPSK PRBS Pseudo-Random Bit Sequence DBPSK Differential OPSK PRBS Pseudo-Random Bit Sequence DSSS Direct Sequence Spread Spectrum PSD Power Application Bit Sequence DBRC ElectroMagnetic Compatibility QPSK Quadri-Phase Shift Keying EMI ElectroMagnetic Compatibility QPSK Quadri-Phase Shift Keying EN European Norm RBS Radio Data System EN European Norm ERP, e.r.p. Effective Radiated Power RE Radio Equipment EU European Union RF RS Radio Frequency EUT Equipment Under Test RSS Radio Standards Specifications FFGC Federal Communications Commission Rx Receiving FFSC Frequency Hopping Spread Spectrum SA, S/A Spectrum Analyzer FFM Frequency Hopping Spread Spectrum SA, S/S Signal Generator FFGC Federal Communications Commission Rx Receiving FFGC Federal Communications Commission FFGC Federal Communications Commission Rx Receiving FFGC Federal Communications Commission FFGC Federal Communications Commission FFGC Federal Communications Commission Rx Receiving FFGC Federal Communications Commission FFGC Federal Communications Commission Rx Receiving FFGC Federal Communications Commission FFGC Federal Communications Commiss	AV	Average	MCS	Modulation and Coding Scheme
BT Bluetooth NIST Technology BT LE Bluetooth Low Energy NS No signal detect. BW BandWidth NSA Normalized Site Attenuation Cal Int Calibration Interval NVLAP Accreditation Program CCK Complementary Code Keying OBW Occupied Band Width Channel OFPM Multiplexing CISPR Comite International Special des Perturbations Radioelectriques P/M Power meter CW Continuous Wave PCB Printed Circuit Board DBPSK Differential BPSK PER Packet Error Rate DC Direct Current PHY Physical Layer D-factor Distance factor PK Peak DFS Dynamic Frequency Selection PN PSBS Pseudo-Random Bit Sequence DQPSK Differential QPSK PRBS Pseudo-Random Bit Sequence DSSS Direct Sequence Spread Spectrum PSD Power Spectral Density EDR Enhanced Data Rate QAM Quadrature Amplitude Modulation EIRP, e.i.r.p. Equivalent Isotropically Radiated Power EMC ElectroMagnetic Compatibility QPSK Quadri-Phase Shift Keying EMI ElectroMagnetic Interference RBW Resolution Band Width EN European Union RF Radio Equipment EU European Union RF Radio Equipment EUT Equipment Under Test RSS Radio Standards Specifications FCC Federal Communications Commission RS A, S/A Spectrum Analyzer FFM Frequency Hopping Spread Spectrum SS Gignal Generator FFM Frequency Shift Keying FFM Frequency Shift Keying TR Test Receiver FFM Frequency Shift Keying FFM Frequency Shift Keying TR Test Receiver FFM Frequency Shift Keying FFM Frequency Shift Keying TR Transmitting FFM Frequency Shift Keying FFM Frequency Shift Key	BPSK	Binary Phase-Shift Keying	MRA	Mutual Recognition Arrangement
BT LE Bluetooth Low Energy NS No signal detect. BW BandWidth NSA Normalized Site Attenuation Cal Int Calibration Interval NVLAP Accreditation Program CCK Complementary Code Keying OBW Occupied Band Width Ch., CH Channel OFDM Orthogonal Frequency Division Multiplexing CISPR Comite International Special des Perturbations Radioelectriques P/M Power meter CW Continuous Wave PER Packet Error Rate DC Direct Current PHY Physical Layer D-factor Distance factor PK Peak DSS Dynamic Frequency Selection PN Pseudo random Noise DQPSK Differential QPSK PRBS Pseudo-Random Bit Sequence DSSS Direct Sequence Spread Spectrum PSD Power Spectral Density EDR Enhanced Data Rate QAM Quadrature Amplitude Modulation EIRP, e.i.r.p. Equivalent Isotropically Radiated Power QP Quasi-Peak EMC ElectroMagnetic Interference RBW Resolution Band Width EN European Norm ERP, e.r.p. Effective Radiated Power RE Radio Equipment EU European Union RF Radio Frequency EUT Equipment Under Test RRS Radio Standards Specifications FCC Federal Communications Commission RX Receiving FRM Frequency Modulation FSK Frequency Shift Keying FRM Frequency Shift Keying	BR	Bluetooth Basic Rate	N/A	
BW BandWidth NSA Normalized Site Attenuation Cal Int Calibration Interval NVLAP Calibration Interval NVLAP Calibration Interval NVLAP CCK Complementary Code Keying CCK Complementary Code Keying CCK Complementary Code Keying CDFM Orthogonal Frequency Division Multiplexing CISPR Comite International Special des Perturbations Radioelectriques P/M COME Continuous Wave CISPR Continuous Wave Continuous Wave CISPR Continuous Wave CISPR Continuous Wave CISPR Comite International Special des Perturbations Radioelectriques P/M COME Continuous Wave CISPR Continuous Valore CISPR Co	ВТ	Bluetooth	NIST	
Cal Int Calibration Interval NVLAP Accreditation Program CCK Complementary Code Keying OBW Occupied Band Width Ch., CH Channel OFDM Orthogonal Frequency Division Multiplexing CISPR Comite International Special des Perturbations Radioelectriques P/M Power meter CW Continuous Wave PCB Printed Circuit Board DBPSK Differential BPSK PER Packet Error Rate DC Direct Current PHY Physical Layer D-factor Distance factor PK Peak DFS Dynamic Frequency Selection PN Pseudo random Noise DGPSK Differential QPSK PRBS Pseudo-Random Bit Sequence DSSS Direct Sequence Spread Spectrum PSD Power Spectral Density EDR Enhanced Data Rate QAM Quadrature Amplitude Modulation EIRP, e.i.r.p. Equivalent Isotropically Radiated Power QP Quasi-Peak EMC ElectroMagnetic Compatibility QPSK RBW Resolution Band Width EIN European Norm RDS Radio Data System ERP, e.r.p. Effective Radiated Power RE Radio Equipment EU European Union RF Radio Frequency EUT Equipment Under Test RSS Radio Standards Specifications FCC Federal Communications Commission RX Receiving FHSS Frequency Hopping Spread Spectrum SA, SIA Spectrum Analyzer FM Frequency Modulation FFG Frequency Hopping Spread Spectrum SA, SIA Spectrum Analyzer FM Frequency Shift Keying TR Transmitting GFSK Gaussian Frequency-Shift Keying Vert. Vertical	BT LE	Bluetooth Low Energy	NS	No signal detect.
CCK Complementary Code Keying OBW Occupied Band Width Ch., CH Channel Complementary Code Keying OFDM OFDM OFDM OFDM OFDM OFDM OFTHOGONAL PROPERTY OF THE PROPE	BW	BandWidth	NSA	
Ch., CH Channel OFDM Orthogonal Frequency Division Multiplexing CISPR Comite International Special des Perturbations Radioelectriques P/M Power meter CW Continuous Wave PCB Printed Circuit Board DBPSK Differential BPSK PER Packet Error Rate DC Direct Current PHY Physical Layer D-factor Distance factor PK Peak DFS Dynamic Frequency Selection PN Pseudo random Noise DQPSK Differential QPSK PRBS Pseudo-Random Bit Sequence DSSS Direct Sequence Spread Spectrum PSD Power Spectral Density EDR Enhanced Data Rate QAM Quadrature Amplitude Modulation EIRP, e.i.r.p. Equivalent Isotropically Radiated Power QP Quasi-Peak EMC ElectroMagnetic Compatibility QPSK Quadri-Phase Shift Keying EMI ElectroMagnetic Interference RBW Resolution Band Width EN European Norm RDS Radio Data System ERP, e.r.p. Effective Radiated Power RE Radio Equipment EU European Union RF Radio Frequency EUT Equipment Under Test RMS Root Mean Square Fac. Factor RSS Radio Standards Specifications FCC Federal Communications Commission Rx Receiving FMS Frequency Hopping Spread Spectrum SA, S/A Spectrum Analyzer FM Frequency Modulation SG Signal Generator FFSK Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying TX Transmitting GNSS Global Navigation Satellite System Vert. Vertical	Cal Int	Calibration Interval	NVLAP	National Voluntary Laboratory Accreditation Program
CISPR Comite International Special des Perturbations Radioelectriques CW Continuous Wave DBPSK Differential BPSK PER Packet Error Rate DC Direct Current D-factor Distance factor DFS Dynamic Frequency Selection DC Direct Sequence Spread Spectrum DC SC Direct Sequence Spread Spectrum DC Direct Sequence Spread Spectrum DC SC Direct Sequence Spread Spectrum DC Septimized Spread Spectrum DC Direct Sequence Spread Spectrum DC Septimized Spread Spread Spectrum DC Septimized Spread Spread Spectrum DC Septimized Spread Spre	CCK	Complementary Code Keying	OBW	
CW Continuous Wave PCB Printed Circuit Board DBPSK Differential BPSK PER Packet Error Rate DC Direct Current PHY Physical Layer D-factor Distance factor PK Peak DSS Dynamic Frequency Selection PN Pseudo random Noise DQPSK Differential QPSK Pseudo-Random Bit Sequence DSSS Direct Sequence Spread Spectrum PSD Power Spectral Density EDR Enhanced Data Rate QAM Quadrature Amplitude Modulation EIRP, e.i.r.p. Equivalent Isotropically Radiated Power QP Quasi-Peak EMC ElectroMagnetic Compatibility QPSK Quadri-Phase Shift Keying EMI ElectroMagnetic Interference RBW Resolution Band Width EN European Norm RDS Radio Data System ERP, e.r.p. Effective Radiated Power EU European Union RF Radio Frequency EUT Equipment Under Test RMS Root Mean Square Fac. Factor RSS Radio Standards Specifications FCC Federal Communications Commission Rx Receiving FHSS Frequency Hopping Spread Spectrum SA, S/A Spectrum Analyzer FM Frequency Hopping Spread Spectrum SA, S/A Spectrum Analyzer FM Frequency Shift Keying TR Test Receiver FSK Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying Tx Transmitting GNSS Global Navigation Satellite System Vert. Vertical	Ch., CH	Channel	OFDM	Orthogonal Frequency Division Multiplexing
DBPSK Differential BPSK PER Packet Error Rate DC Direct Current PHY Physical Layer D-factor Distance factor PK Peak DFS Dynamic Frequency Selection PN Pseudo random Noise DQPSK Differential QPSK PRBS Pseudo-Random Bit Sequence DSSS Direct Sequence Spread Spectrum PSD Power Spectral Density EDR Enhanced Data Rate QAM Quadrature Amplitude Modulation EIRP, e.i.r.p. Equivalent Isotropically Radiated Power QP Quasi-Peak EMC ElectroMagnetic Compatibility QPSK Quadri-Phase Shift Keying EMI ElectroMagnetic Interference RBW Resolution Band Width EN European Norm RDS Radio Data System ERP, e.r.p. Effective Radiated Power RE Radio Equipment EU European Union RF Radio Equipment EU Equipment Under Test RMS Root Mean Square Fac. Factor RSS Radio Standards Sp	CISPR	Comite International Special des Perturbations Radioelectriques	P/M	Power meter
DC Direct Current PHY Physical Layer D-factor Distance factor PK Peak DFS Dynamic Frequency Selection PN Pseudo random Noise DQPSK Differential QPSK PRBS Pseudo-Random Bit Sequence DSSS Direct Sequence Spread Spectrum PSD Power Spectral Density EDR Enhanced Data Rate QAM Quadrature Amplitude Modulation EIRP, e.i.r.p. Equivalent Isotropically Radiated Power QP Quasi-Peak EMC ElectroMagnetic Compatibility QPSK Quadri-Phase Shift Keying EMI ElectroMagnetic Interference RBW Resolution Band Width EN European Norm RDS Radio Data System ERP, e.r.p. Effective Radiated Power RE Radio Equipment EU European Union RF Radio Frequency EUT Equipment Under Test RMS Root Mean Square Fac. Factor RSS Radio Standards Specifications FCC Federal Communications Commission Rx	CW	Continuous Wave	PCB	Printed Circuit Board
D-factor Distance factor PK Peak DFS Dynamic Frequency Selection PN Pseudo random Noise DQPSK Differential QPSK PRBS Pseudo-Random Bit Sequence DSSS Direct Sequence Spread Spectrum PSD Power Spectral Density EDR Enhanced Data Rate QAM Quadrature Amplitude Modulation EIRP, e.i.r.p. Equivalent Isotropically Radiated Power QP Quasi-Peak EMC ElectroMagnetic Compatibility QPSK Quadri-Phase Shift Keying EMI ElectroMagnetic Interference RBW Resolution Band Width EN European Norm RDS Radio Data System ERP, e.r.p. Effective Radiated Power RE Radio Equipment EU European Union RF Radio Frequency EUT Equipment Under Test RNS Root Mean Square Fac. Factor RSS Radio Standards Specifications FCC Federal Communications Commission Rx Receiving FHSS Frequency Hopping Spread Spectrum SA, S/A Spectrum Analyzer FM Frequency Modulation GS Signal Generator Freq. Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying Tx Transmitting GNSS Global Navigation Satellite System VBW Video BandWidth Vert. Vertical	DBPSK	Differential BPSK	PER	Packet Error Rate
DFSDynamic Frequency SelectionPNPseudo random NoiseDQPSKDifferential QPSKPRBSPseudo-Random Bit SequenceDSSSDirect Sequence Spread SpectrumPSDPower Spectral DensityEDREnhanced Data RateQAMQuadrature Amplitude ModulationEIRP, e.i.r.p.Equivalent Isotropically Radiated PowerQPQuasi-PeakEMCElectroMagnetic CompatibilityQPSKQuadri-Phase Shift KeyingEMIElectroMagnetic InterferenceRBWResolution Band WidthENEuropean NormRDSRadio Data SystemERP, e.r.p.Effective Radiated PowerRERadio EquipmentEUEuropean UnionRFRadio FrequencyEUTEquipment Under TestRMSRoot Mean SquareFac.FactorRSSRadio Standards SpecificationsFCCFederal Communications CommissionRxReceivingFHSSFrequency Hopping Spread SpectrumSA, S/ASpectrum AnalyzerFMFrequency ModulationSGSignal GeneratorFreq.FrequencySVSWRSite-Voltage Standing Wave RatioFSKFrequency Shift KeyingTRTest ReceiverGFSKGaussian Frequency-Shift KeyingTxTransmittingGNSSGlobal Navigation Satellite SystemVBWVideo BandWidthGPSGlobal Positioning SystemVert.Vert.	DC	Direct Current	PHY	Physical Layer
DQPSK Differential QPSK PRBS Pseudo-Random Bit Sequence DSSS Direct Sequence Spread Spectrum PSD Power Spectral Density EDR Enhanced Data Rate QAM Quadrature Amplitude Modulation EIRP, e.i.r.p. Equivalent Isotropically Radiated Power QP Quasi-Peak EMC ElectroMagnetic Compatibility QPSK Quadri-Phase Shift Keying EMI ElectroMagnetic Interference RBW Resolution Band Width EN European Norm RDS Radio Data System REP, e.r.p. Effective Radiated Power RE RADIO RAD	D-factor	Distance factor	PK	Peak
DSSS Direct Sequence Spread Spectrum PSD Power Spectral Density EDR Enhanced Data Rate QAM Quadrature Amplitude Modulation EIRP, e.i.r.p. Equivalent Isotropically Radiated Power EMC ElectroMagnetic Compatibility QPSK Quadri-Phase Shift Keying EMI ElectroMagnetic Interference RBW Resolution Band Width EN European Norm RDS Radio Data System ERP, e.r.p. Effective Radiated Power EU European Union RF Radio Frequency EUT Equipment Under Test RMS Root Mean Square Fac. Factor RSS Radio Standards Specifications FCC Federal Communications Commission Rx Receiving FHSS Frequency Hopping Spread Spectrum SA, S/A Spectrum Analyzer FM Frequency Modulation SG Signal Generator Freq. Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying Tx Transmitting GNSS Global Navigation Satellite System Vert. Vertical	DFS	Dynamic Frequency Selection	PN	Pseudo random Noise
EDR Enhanced Data Rate QAM Quadrature Amplitude Modulation EIRP, e.i.r.p. Equivalent Isotropically Radiated Power EMC ElectroMagnetic Compatibility QPSK Quadri-Phase Shift Keying EMI ElectroMagnetic Interference RBW Resolution Band Width EN European Norm RDS Radio Data System ERP, e.r.p. Effective Radiated Power EU European Union RF Radio Frequency EUT Equipment Under Test RSS Radio Standards Specifications FCC Federal Communications Commission RX Receiving FHSS Frequency Hopping Spread Spectrum FAGUE Frequency Freq. Frequency Freq. Frequency GFSK Gaussian Frequency-Shift Keying GNSS Global Navigation Satellite System Vert. Vertical	DQPSK	Differential QPSK	PRBS	Pseudo-Random Bit Sequence
EIRP, e.i.r.p. Equivalent Isotropically Radiated Power EMC ElectroMagnetic Compatibility EMI ElectroMagnetic Interference EMI ElectroMagnetic Interference EMI ElectroMagnetic Interference EMI ElectroMagnetic Interference RBW Resolution Band Width EN Radio Data System ERP, e.r.p. Effective Radiated Power ERP, e.r.p. Effective Radiated Power EU European Union EU European Union EUT Equipment Under Test RMS Root Mean Square Fac. Factor Factor FCC Federal Communications Commission RX Receiving FHSS Frequency Hopping Spread Spectrum FMS Frequency Modulation FRE Radio Equipment RNS Radio Standards Specifications RX Receiving FNS Receiven FNS Spectrum Analyzer FM Frequency Modulation FRE Radio Equipment RNS Root Mean Square RSS Radio Standards Specifications FX Receiving FX Receiving FX Receiving FRE RADIO Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying TX Transmitting GNSS Global Navigation Satellite System VBW Video BandWidth GPS Global Positioning System	DSSS	Direct Sequence Spread Spectrum	PSD	Power Spectral Density
EMCElectroMagnetic CompatibilityQPSKQuadri-Phase Shift KeyingEMIElectroMagnetic InterferenceRBWResolution Band WidthENEuropean NormRDSRadio Data SystemERP, e.r.p.Effective Radiated PowerRERadio EquipmentEUEuropean UnionRFRadio FrequencyEUTEquipment Under TestRMSRoot Mean SquareFac.FactorRSSRadio Standards SpecificationsFCCFederal Communications CommissionRxReceivingFHSSFrequency Hopping Spread SpectrumSA, S/ASpectrum AnalyzerFMFrequency ModulationSGSignal GeneratorFreq.FrequencySVSWRSite-Voltage Standing Wave RatioFSKFrequency Shift KeyingTRTest ReceiverGFSKGaussian Frequency-Shift KeyingTxTransmittingGNSSGlobal Navigation Satellite SystemVBWVideo BandWidthGPSGlobal Positioning SystemVert.Vert.	EDR	Enhanced Data Rate	QAM	Quadrature Amplitude Modulation
EMI ElectroMagnetic Interference RBW Resolution Band Width EN European Norm RDS Radio Data System ERP, e.r.p. Effective Radiated Power RE Radio Equipment EU European Union RF Radio Frequency EUT Equipment Under Test RMS Root Mean Square Fac. Factor RSS Radio Standards Specifications FCC Federal Communications Commission Rx Receiving FHSS Frequency Hopping Spread Spectrum SA, S/A Spectrum Analyzer FM Frequency Modulation SG Signal Generator Freq. Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying Tx Transmitting GNSS Global Navigation Satellite System VBW Video BandWidth GPS Global Positioning System	EIRP, e.i.r.p.	Equivalent Isotropically Radiated Power	QP	Quasi-Peak
EN European Norm RDS Radio Data System ERP, e.r.p. Effective Radiated Power RE Radio Equipment EU European Union RF Radio Frequency EUT Equipment Under Test RMS Root Mean Square Fac. Factor RSS Radio Standards Specifications FCC Federal Communications Commission Rx Receiving FHSS Frequency Hopping Spread Spectrum SA, S/A Spectrum Analyzer FM Frequency Modulation SG Signal Generator Freq. Frequency SvSWR Site-Voltage Standing Wave Ratio FSK Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying Tx Transmitting GNSS Global Navigation Satellite System VBW Video BandWidth GPS Global Positioning System	EMC	ElectroMagnetic Compatibility	QPSK	Quadri-Phase Shift Keying
ERP, e.r.p. Effective Radiated Power EU European Union EUT Equipment Under Test Fac. Factor FCC Federal Communications Commission FHSS Frequency Hopping Spread Spectrum FM Frequency Modulation FRE Radio Equipment RMS Root Mean Square RSS Radio Standards Specifications RX Receiving FHSS Frequency Hopping Spread Spectrum SA, S/A Spectrum Analyzer FM Frequency Modulation FRE Radio Equipment RMS Root Mean Square RSS Radio Standards Specifications FX Receiving SA, S/A Spectrum Analyzer FM Frequency Modulation SG Signal Generator FYEQ. Frequency FYEW Site-Voltage Standing Wave Ratio FYEW Gaussian Frequency-Shift Keying TX Transmitting GNSS Global Navigation Satellite System VBW Video BandWidth GPS Global Positioning System	EMI	ElectroMagnetic Interference	RBW	Resolution Band Width
EU European Union RF Radio Frequency EUT Equipment Under Test RMS Root Mean Square Fac. Factor RSS Radio Standards Specifications FCC Federal Communications Commission Rx Receiving FHSS Frequency Hopping Spread Spectrum SA, S/A Spectrum Analyzer FM Frequency Modulation SG Signal Generator Freq. Frequency SVSWR Site-Voltage Standing Wave Ratio FSK Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying Tx Transmitting GNSS Global Navigation Satellite System VBW Video BandWidth GPS Global Positioning System	EN	European Norm	RDS	Radio Data System
EUT Equipment Under Test RMS Root Mean Square Fac. Factor RSS Radio Standards Specifications FCC Federal Communications Commission Rx Receiving FHSS Frequency Hopping Spread Spectrum SA, S/A Spectrum Analyzer FM Frequency Modulation SG Signal Generator Freq. Frequency SVSWR Site-Voltage Standing Wave Ratio FSK Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying Tx Transmitting GNSS Global Navigation Satellite System VBW Video BandWidth GPS Global Positioning System Vert. Vertical				
Fac. Factor RSS Radio Standards Specifications FCC Federal Communications Commission Rx Receiving FHSS Frequency Hopping Spread Spectrum SA, S/A Spectrum Analyzer FM Frequency Modulation SG Signal Generator Freq. Frequency SvSWR Site-Voltage Standing Wave Ratio FSK Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying Tx Transmitting GNSS Global Navigation Satellite System VBW Video BandWidth GPS Global Positioning System Vert. Vertical	EU	European Union	RF	Radio Frequency
FCC Federal Communications Commission Rx Receiving FHSS Frequency Hopping Spread Spectrum SA, S/A Spectrum Analyzer FM Frequency Modulation SG Signal Generator Freq. Frequency SvSWR Site-Voltage Standing Wave Ratio FSK Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying Tx Transmitting GNSS Global Navigation Satellite System VBW Video BandWidth GPS Global Positioning System Vert. Vertical	EUT	Equipment Under Test		Root Mean Square
FHSS Frequency Hopping Spread Spectrum SA, S/A Spectrum Analyzer FM Frequency Modulation SG Signal Generator Freq. Frequency SVSWR Site-Voltage Standing Wave Ratio FSK Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying Tx Transmitting GNSS Global Navigation Satellite System VBW Video BandWidth GPS Global Positioning System Vert. Vertical	Fac.		RSS	Radio Standards Specifications
FM Frequency Modulation SG Signal Generator Freq. Frequency SVSWR Site-Voltage Standing Wave Ratio FSK Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying Tx Transmitting GNSS Global Navigation Satellite System VBW Video BandWidth GPS Global Positioning System Vert. Vertical	FCC		Rx	
Freq. Frequency SVSWR Site-Voltage Standing Wave Ratio FSK Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying Tx Transmitting GNSS Global Navigation Satellite System VBW Video BandWidth GPS Global Positioning System Vert. Vertical	FHSS	Frequency Hopping Spread Spectrum		
FSK Frequency Shift Keying TR Test Receiver GFSK Gaussian Frequency-Shift Keying Tx Transmitting GNSS Global Navigation Satellite System VBW Video BandWidth GPS Global Positioning System Vert. Vertical	FM	Frequency Modulation		_
GFSK Gaussian Frequency-Shift Keying Tx Transmitting GNSS Global Navigation Satellite System VBW Video BandWidth GPS Global Positioning System Vert. Vertical				•
GNSS Global Navigation Satellite System VBW Video BandWidth GPS Global Positioning System Vert. Vertical	FSK	Frequency Shift Keying	TR	Test Receiver
GPS Global Positioning System Vert. Vertical				
		Global Navigation Satellite System	VBW	Video BandWidth
Hori. Horizontal WLAN Wireless LAN	GPS	Global Positioning System	Vert.	Vertical
	Hori.	Horizontal	WLAN	Wireless LAN

Test Report No. Page

: 14800200H-D-R1 : 4 of 38

PAGE CONTENTS Customer Information......5 **SECTION 1:** SECTION 2: Equipment Under Test (EUT)......5 Test specification, Procedures & Results......6 **SECTION 3:** Operation of EUT during testing......9 **SECTION 4: SECTION 5:** Radiated Spurious Emission and Band Edge Compliance.....14 **SECTION 6: SECTION 7:** Antenna Terminal Conducted Tests17 APPENDIX 1: Test Data.......18 Conducted Emission 18 Maximum Conducted Output Power22 Maximum Power Spectral Density......24 Radiated Spurious Emission26 APPENDIX 2: Test Instruments......33 APPENDIX 3: Photographs of Test Setup......35 Conducted Emission......35

Test Report No. : 14800200H-D-R1

Page : 5 of 38

SECTION 1: Customer Information

Company Name	silex technology, Inc.
Address	2-3-1 Hikaridai, Seika-cho, Soraku-gun, Kyoto 619-0237, Japan
Telephone Number	+81-774-98-3878
Contact Person	Yoshinori Nakai

The information provided from the customer is as follows;

- Customer, Description of EUT, Model Number of EUT, FCC ID on the cover and other relevant pages
- Operating/Test Mode(s) (Mode(s)) on all the relevant pages
- SECTION 1: Customer Information
- SECTION 2: Equipment Under Test (EUT) other than the Receipt Date and Test Date
- SECTION 4: Operation of EUT during testing
- * The laboratory is exempted from liability of any test results affected from the above information in SECTION 2 and 4.

SECTION 2: Equipment Under Test (EUT)

2.1 Identification of EUT

Description	Wireless E84 Digital Communication Device
Model Number	WDCD-3310
Serial Number	Refer to SECTION 4.2
Condition	Production prototype
	(Not for Sale: This sample is equivalent to mass-produced items.)
Modification	No Modification by the test lab
Receipt Date	May 14, 2023
Test Date	May 16 to 28, 2023

2.2 Product Description

General Specification

Rating	DC 24 V

Radio Specification

Short-Range Wireless 2.4 GHz

Chort Runge Wholese 211	O112
Equipment Type	Transceiver
Frequency of Operation	2403 MHz to 2480 MHz
Type of Modulation	FSK
Antenna Gain	6.4 dBi

Short-Range Wireless 5.8 GHz *

Equipment Type	Transceiver
Frequency of Operation	5731 MHz to 5849 MHz
Type of Modulation	FSK
Antenna Gain	1.9 dBi

^{*} This test report applies to 5 GHz Band.

Test Report No. : 14800200H-D-R1 : 6 of 38 Page

SECTION 3: Test specification, Procedures & Results

3.1 **Test Specification**

Test	FCC Part 15 Subpart E
Specification	The latest version on the first day of the testing period
Title	FCC 47 CFR Part 15 Radio Frequency Device Subpart E
	Unlicensed National Information Infrastructure Devices
	Section 15.407 General technical requirements

^{*}The customer has declared that the EUT has complies with FCC Part 15 Subpart B as SDoC.

3.2 **Procedures and Results**

Item	Test Procedure	Specification	Worst Margin	Results	Remarks
Conducted	FCC: ANSI C63.10-2013	FCC: 15.407 (b) (6) / 15.207	4.91 dB,	Complied	-
Emission	ISED: RSS-Gen 8.8	ISED: RSS-Gen 8.8	15.75959 MHz, N, AV		
26 dB Emission	FCC: KDB Publication	FCC : 15.407 (a) (1) (2) (3)	See data	Complied	Conducted
Bandwidth	Number 789033				
	ISED: -	ISED: -			
Maximum	FCC: KDB Publication Number 789033	FCC : 15.407 (a) (1) (2) (3)		Complied	Conducted
Conducted	ISED: -	ISED: RSS-247 6.2.1.1	-		
Output Power	1025.	6.2.2.1			
		6.2.3.1			
		6.2.4.1			
Maximum Power	FCC: KDB Publication	FCC: 15.407 (a) (1) (2) (3)		Complied	Conducted
Spectral Density	Number 789033				
	ISED: -	ISED: RSS-247 6.2.1.1			
	1	6.2.2.1			
		6.2.3.1			
		6.2.4.1			
Spurious	FCC: ANSI C63.10-2013	FCC : 15.407 (b), 15.205 and	5.2 dB	Complied	Conducted
Emission Restricted Band Edge	KDB Publication Number	15.209	6892.0 MHz,		(< 30 MHz)/
	789033	 	PK, Horizontal		Radiated
	ISED: -	ISED: RSS-247 6.2.1.2			(> 30 MHz)
		6.2.2.2 6.2.3.2			*1)
		6.2.3.2			
6 dB Emission	FCC: ANSI C63.10-2013	FCC: 15.407 (e)	See data	Complied	Conducted
Bandwidth	ISED: -	ISED: RSS-247 6.2.4.1	_ Oce uala	Compiled	Conducted
Danawidii		13ED. 1335-247 0.2.4.1	<u> </u>		

Note: UL Japan, Inc.'s EMI Work Procedures: Work Instructions-ULID-003591 and Work Instructions-ULID-003593.

* In case any questions arise about test procedure, ANSI C63.10: 2013 is also referred.

FCC Part 15.31 (e)
This EUT provides stable voltage constantly to RF Module regardless of input voltage. Therefore, this EUT complies with the requirement.

FCC Part 15.203 Antenna requirement

The EUT has an external antenna connector, but it is installed by the professionals. Therefore, the equipment complies with the antenna requirement of Section 15.203.

^{*1)} Radiated test was selected over 30 MHz based on FCC 15.407 (b) and KDB 789033 D02 G.3.b).

Test Report No. : 14800200H-D-R1 Page : 7 of 38

3.3 Addition to Standard

Item	Test Procedure	Specification	Worst Margin	Results	Remarks
99 % Occupied	ISED: RSS-Gen 6.7	ISED: -	N/A	-	Conducted
Band Width					

Other than above, no addition, exclusion nor deviation has been made from the standard.

3.4 Uncertainty

Measurement uncertainty is not taken into account when stating conformity with a specified requirement. Note: When margins obtained from test results are less than the measurement uncertainty, the test results may exceed the limit.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor k=2.

Conducted emission

Item	Frequency range	Unit	Calculated Uncertainty (+/-)
AMN (LISN)	0.009 MHz to 0.15 MHz	dB	3.7
	0.15 MHz to 30 MHz	dB	3.3

Radiated emission

Measurement distance	Frequency range		Unit	Calculated Uncertainty (+/-)
3 m	9 kHz to 30 MHz		dB	3.3
10 m			dB	3.1
3 m	30 MHz to 200 MHz	(Horizontal)	dB	4.8
		(Vertical)	dB	5.0
	200 MHz to 1000 MHz	(Horizontal)	dB	5.1
		(Vertical)	dB	6.2
10 m	30 MHz to 200 MHz	(Horizontal)	dB	4.8
		(Vertical)	dB	4.8
	200 MHz to 1000 MHz	(Horizontal)	dB	4.9
		(Vertical)	dB	5.0
3 m	1 GHz to 6 GHz		dB	4.9
	6 GHz to 18 GHz	6 GHz to 18 GHz		
1 m	10 GHz to 26.5 GHz	10 GHz to 26.5 GHz		5.5
	26.5 GHz to 40 GHz		dB	5.4
0.5 m	26.5 GHz to 40 GHz		dB	5.4
10 m	1 GHz to 18 GHz		dB	5.3

Antenna Terminal Conducted tests

Item	Unit	Calculated Uncertainty (+/-)
Antenna Terminated Conducted Emission / Power Density / Burst Power	dB	3.28
Adjacent Channel Power (ACP)	dB	2.27
Bandwidth (OBW)	%	0.96
Time Readout (Time span upto 100 msec)	%	0.11
Time Readout (Time span upto 1000 msec)	%	0.11
Time Readout (Time span upto 60 sec)	%	0.02
Power Measurement (Power Meter)	dB	1.50
Frequency Readout (Frequency Counter)	ppm	0.67
Frequency Readout (Spectrum analyzer frequency readout function)	ppm	1.61
Temperature (Constant temperature bath)	deg.C	0.78
Humidity (Constant temperature bath)	%HR	2.80
Modulation Characteristics	%	6.93
Frequency for Mobile	ppm	0.08

Test Report No. : 14800200H-D-R1
Page : 8 of 38

3.5 Test Location

UL Japan, Inc. Ise EMC Lab.

*A2LA Certificate Number: 5107.02 / FCC Test Firm Registration Number: 884919

 ${\sf ISED\ Lab\ Company\ Number:\ 2973C\ /\ CAB\ identifier:\ JP0002}$

4383-326 Asama-cho, Ise-shi, Mie-ken 516-0021 Japan

Telephone: +81-596-24-8999

•	Width x Depth x	Size of reference ground plane		Maximum
Test site	Height (m)	(m) / horizontal conducting plane	Other rooms	measurem ent distance
No.1 semi-anechoic chamber	19.2 x 11.2 x 7.7	7.0 x 6.0	No.1 Power source room	10 m
No.2 semi-anechoic chamber	7.5 x 5.8 x 5.2	4.0 x 4.0	-	3 m
No.3 semi-anechoic chamber	12.0 x 8.5 x 5.9	6.8 x 5.75	No.3 Preparation room	3 m
No.3 shielded room	4.0 x 6.0 x 2.7	N/A	-	-
No.4 semi-anechoic chamber	12.0 x 8.5 x 5.9	6.8 x 5.75	No.4 Preparation room	3 m
No.4 shielded room	4.0 x 6.0 x 2.7	N/A	-	-
No.5 semi-anechoic chamber	6.0 x 6.0 x 3.9	6.0 x 6.0	-	-
No.5 measurement room	6.4 x 6.4 x 3.0	6.4 x 6.4	-	-
No.6 shielded room	4.0 x 4.5 x 2.7	4.0 x 4.5	-	-
No.6 measurement room	4.75 x 5.4 x 3.0	4.75 x 4.15	-	-
No.7 shielded room	4.7 x 7.5 x 2.7	4.7 x 7.5	-	-
No.8 measurement room	3.1 x 5.0 x 2.7	3.1 x 5.0	-	-
No.9 measurement room	8.8 x 4.6 x 2.8	2.4 x 2.4	-	-
No.10 shielded room	3.8 x 2.8 x 2.8	3.8 x 2.8	-	-
No.11 measurement room	4.0 x 3.4 x 2.5	N/A	-	-
No.12 measurement room	2.6 x 3.4 x 2.5	N/A	-	-
Large Chamber	16.9 x 22.1 x 10.17	16.9 x 22.1	-	10 m
Small Chamber	5.3 x 6.69 x 3.59	5.3 x 6.69	-	-

^{*} Size of vertical conducting plane (for Conducted Emission test) : 2.0 x 2.0 m for No.1, No.2, No.3, and No.4 semi-anechoic chambers and No.3 and No.4 shielded rooms.

3.6 Test Data, Test Instruments, and Test Set Up

Refer to APPENDIX.

Test Report No. : 14800200H-D-R1 Page : 9 of 38

SECTION 4: Operation of EUT during testing

4.1 Operating Mode(s)

Mode	Remarks*
Transmitting (5 GHz)	Tx
Transmitting (5 Oriz)	IA .

*Transmitting duty was 100 % on all tests.

*Power of the EUT was set by the software as follows;

Power settings: 2 dBm (All Tests), -20dBm (Maximum Peak Output Power only)

Software: TeraTerm Ver 4.99.0.0

(Date: 2016.2.16, Storage location: Driven by connected PC)

*This setting of software is the worst case.

Any conditions under the normal use do not exceed the condition of setting.

In addition, end users cannot change the settings of the output power of the product.

*The details of Operation mode(s)

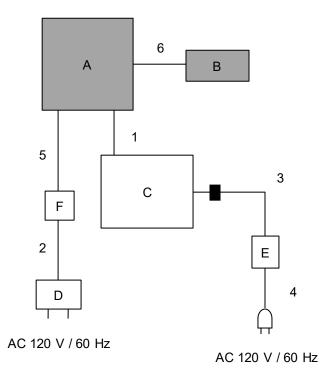
Test Item	Operating Mode	Tested Frequency
Conducted emission,	Tx	5731 MHz *1)
Radiated Spurious Emission		
(Below 1 GHz)		
99 % Occupied Bandwidth,	Tx	5731 MHz
6 dB Bandwidth,		5790 MHz
Maximum Conducted Output Power,		5849 MHz
Maximum Power Spectral Density,		
Radiated Spurious Emission		
(Above 1 GHz),		
Conducted Spurious Emission,		

^{*1)} The mode was tested as a representative, because it had the highest power at antenna terminal test.

Test Report No. : 14800200H-D-R1 Page : 10 of 38

4.2 Configuration and Peripherals

Conducted Emission Test and Radiated Emission Test



: Standard Ferrite Core

^{*} Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

 $^{^*}$ As a result of comparing AC 120 V and AC 240 V at pre-check, conducted emission test was performed with AC 120 V of the worst voltage as representative.

Test Report No. : 14800200H-D-R1
Page : 11 of 38

Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
Α	Wireless E84 Digital	WDCD-3310	CS6_No.05	silex technology, Inc.	EUT
	Communication				
	Device				
В	Antenna	JUM2458PO_W1	100125	Sakuma Antenna	EUT
С	Laptop PC	CF-N8HWCDPS	9LKSA04645	Panasonic	*1)
		X1 Carbon	R9-OH8OTU 15/9	Lenovo Corporation	*2)
D	AC Adapter	WB-18D12R	Y19490019654	Asian Power	-
				Devices Inc.	
Ε	AC Adapter	CF-AA6372B	6372BM	Panasonic	*1)
			610214975E		
		ADXL45NCC2A	11S45N0299	Lenovo Corporation	*2)
			Z1ZS944B6KBR	·	
F	Terminal	JIG1	001	silex technology, Inc.	*3)

^{*1)} Used for Conducted Emission test

List of Cables Used

	Name	Longth (m)	Shield		Remarks
NO.	name	Length (m)			
			Cable	Connector	
1	RS-232C Cable	2.9	Shielded	Shielded	-
2	DC Cable	1.8	Unshielded	Unshielded	-
3	DC Cable	1.1	Unshielded	Unshielded	*1)
		1.7			*2)
4	AC Cable	0.9	Unshielded	Unshielded	*1)
		1.0			*2)
5	Signal and DC Cable	3.0	Unshielded	Unshielded	-
6	Antenna Cable	0.4	Shielded	Shielded	-

^{*1)} Used for Conducted Emission test

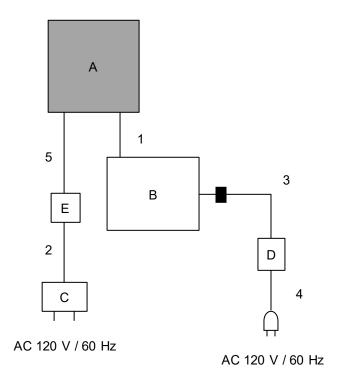
^{*2)} Used for Radiated Emission test

^{*3)} DC power passes because F is a termination connector. DC power output from D is directly supplied to A.

^{*2)} Used for Radiated Emission test

Test Report No. : 14800200H-D-R1 Page : 12 of 38

Antenna Terminal Conducted Test



: Standard Ferrite Core

Description of EUT and Support Equipment

No.	Item	Model number	Serial Number	Manufacturer	Remarks
Α	Wireless E84 Digital	WDCD-3310	CS6_No.05	silex technology, Inc.	EUT
	Communication				
	Device				
В	Laptop PC	X1 Carbon	R9-OH8OTU 15/9	Lenovo Corporation	-
С	AC Adapter	WB-18D12R	Y19490019654	Asian Power Devices Inc.	-
D	AC Adapter	ADXL45NCC2A	11S45N0299	Lenovo Corporation	-
			Z1ZS944B6KBR		
E	Terminal	JIG1	001	silex technology, Inc.	*1)

^{*1)} DC power passes because F is a termination connector. DC power output from D is directly supplied to A.

List of Cables Used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	RS-232C Cable	2.9	Shielded	Shielded	-
2	DC Cable	1.8	Unshielded	Unshielded	-
3	DC Cable	1.7	Unshielded	Unshielded	-
4	AC Cable	1.0	Unshielded	Unshielded	-
5	Signal and DC Cable	3.0	Unshielded	Unshielded	-

^{*} Cabling and setup(s) were taken into consideration and test data was taken under worse case conditions.

Test Report No. : 14800200H-D-R1 Page : 13 of 38

SECTION 5: Conducted Emission

Test Procedure and Conditions

EUT was placed on a urethane platform of nominal size, 1.0 m by 1.5 m, raised 0.8 m above the conducting ground plane.

The rear of tabletop was located 40cm to the vertical conducting plane. The rear of EUT, including peripherals aligned and flushed with rear of tabletop. All other surfaces of tabletop were at least 80cm from any other grounded conducting surface. EUT was located 80cm from a Line Impedance Stabilization Network (LISN) / Artificial mains Network (AMN) and excess AC cable was bundled in center.

For the tests on EUT with other peripherals (as a whole system)

I/O cables that were connected to the peripherals were bundled in center. They were folded back and forth forming a bundle 30 cm to 40 cm long and were hanged at a 40 cm height to the ground plane. All unused 50 ohm connectors of the LISN (AMN) were resistivity terminated in 50 ohm when not connected to the measuring equipment.

The AC Mains Terminal Continuous disturbance Voltage has been measured with the EUT in a Semi Anechoic Chamber.

The EUT was connected to a LISN (AMN).

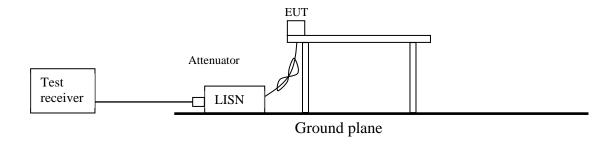
An overview sweep with peak detection has been performed.

The test results and limit are rounded off to one decimal place, so some differences might be observed.

Detector : QP and CISPR Average Measurement Range : 0.15 MHz to 30 MHz

Test Data : APPENDIX Test Result : Pass

Figure 1: Test Setup



Test Report No. : 14800200H-D-R1 Page : 14 of 38

SECTION 6: Radiated Spurious Emission and Band Edge Compliance

Test Procedure

< Below 1 GHz >

EUT was placed on a urethane platform of nominal size, 0.5 m by 1.0 m, raised 0.8 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with a ground plane.

< Above 1 GHz >

EUT was placed on a urethane platform of nominal size, 0.5 m by 0.5 m, raised 1.5 m above the conducting ground plane. The Radiated Electric Field Strength has been measured in a Semi Anechoic Chamber with absorbent materials lined on a ground plane. Test antenna was aimed at the EUT for receiving the maximum signal and always kept within the illumination area of the 3 dB beamwidth of the antenna.

The height of the measuring antenna varied between 1 m and 4 m and EUT was rotated a full revolution in order to obtain the maximum value of the electric field strength.

The measurements were performed for both vertical and horizontal antenna polarization with the Test Receiver, or the Spectrum Analyzer.

The measurements were made with the following detector function of the test receiver and the Spectrum analyzer (in linear mode).

The test was made with the detector (RBW/VBW) in the following table.

When using Spectrum analyzer, the test was made with adjusting span to zero by using peak hold.

< Below 1 GHz >

The result also satisfied with the general limits specified in section 15.209 (a).

< Above 1 GHz >

Inside of restricted bands (Section 15.205): Apply to limit in the Section 15.209 (a).

Outside of the restricted bands:

Apply to limit 68.2 dBuV/m, 3 m (-27 dBm e.i.r.p.*) in the Section 15.407 (b) (1) (2) (3).

For W58 Bandedge

-27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge in the section 15.407(b)(4)(i).

Restricted band edge:

Apply to limit in the Section 15.209 (a).

Since this limit is severer than the limit of the inside of restricted bands.

*Electric field strength to e.i.r.p. conversion:

$$E = \frac{1000000 \sqrt{30 P}}{3}$$
 (uV/m) : P is the e.i.r.p. (Watts)

Test Report No. : 14800200H-D-R1

: 15 of 38 Page

Test Antennas are used as below;

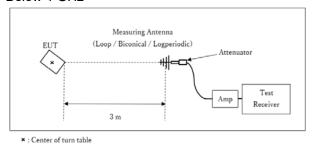
Frequency	30 MHz to 200 MHz	200 MHz to 1 GHz	Above 1 GHz
Antenna Type	Biconical	Logperiodic	Horn

Frequency	Below 1 GHz	Above 1 GHz	
Instrument Used	Test Receiver	Spectrum Analyzer	
Detector	QP	Peak	Average
IF Bandwidth	BW: 120 kHz	RBW: 1 MHz	Method AD
		VBW: 3 MHz	RBW: 1 MHz
			VBW: 3 MHz
		Detector: Power Averagi	
			(RMS)
			Trace: ≥ 100 traces
		If duty cycle was less that	
			98%, a duty factor was
			added to the results.

Test Report No. : 14800200H-D-R1 Page : 16 of 38

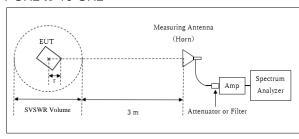
Figure 2: Test Setup

Below 1 GHz



Test Distance: 3 m

1 GHz to 10 GHz



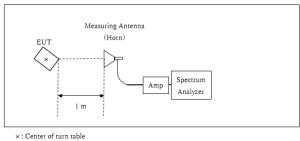
* Test Distance: (3 + SVSWR Volume /2) - r = 3.65 m

Distance Factor: 20 x log (3.65 m / 3.0 m) = 1.71 dB

SVSWR Volume : 1.5 m (SVSWR Volume has been calibrated based on CISPR 16-1-4.) r = 0.1 m

- r : Radius of an outer periphery of EUT
- ×: Center of turn table

10 GHz to 40 GHz



Distance Factor: $20 \times \log (1.0 \text{ m} / 3.0 \text{ m}) = -9.5 \text{ dB}$

*Test Distance: 1 m

The carrier level and noise levels were confirmed at each position of X, Y and Z axes of EUT to see the position of maximum noise, and the test was made at the position that has the maximum noise.

The test results and limit are rounded off to one decimal place, so some differences might be observed.

Measurement Range : 30 MHz to 40 GHz

Test Data : APPENDIX

Test Result : Pass

Test Report No. : 14800200H-D-R1
Page : 17 of 38

SECTION 7: Antenna Terminal Conducted Tests

Test Procedure

The tests were made with below setting connected to the antenna port.

Test	Span	RBW	VBW	Sweep time	Detector	Trace	Instrument used and Test method
26 dB Bandwidth	Enough to capture the emission	Close to 1 % of EBW	> RBW	Auto	Peak	Max Hold	Spectrum Analyzer
99 % Occupied Bandwidth *1)	Enough width to display emission skirts	1 % to 5 % of OBW	≥3 RBW	Auto	Peak	Max Hold	Spectrum Analyzer
6 dB Bandwidth	Enough to capture the emission	100 kHz	300 kHz	Auto	Peak	Max Hold	Spectrum Analyzer
Maximum Conducted Output Power	-	-	-	Auto	Average	-	Power Meter (Sensor: 80 MHz BW) (Method PM-G)
Maximum Power Spectral Density	Encompass the entire EBW	1 MHz or 470 kHz *2)	≥3 RBW	Auto	RMS or Sample Power Averaging (200 times)	Clear Write	Spectrum Analyzer
Conducted Spurious Emission*3) *4)	9 kHz to 150 kHz 150 kHz to 30 MHz	200 Hz 9.1 kHz	620 Hz 27 kHz	Auto	Peak	Max Hold	Spectrum Analyzer

- *1) Peak hold was applied as Worst-case measurement.
- *2) KDB 789033 D02 says that RBW is set to be 500 kHz for 5.725 GHz to 5.850 GHz, but it is not possible with spectrum analyzer, so RBW Correction Factor (10 log(500 kHz / 470 kHz)) was added to the test result.
- *3) In the frequency range below 30 MHz, RBW was narrowed to separate the noise contents.

 Then, wide-band noise near the limit was checked separately, however the noise was not detected as shown in the chart. (9 kHz to 150 kHz: RBW = 200 Hz, 150 kHz to 30 MHz: RBW
- *4) The limits in CFR 47, Part 15, Subpart C, paragraph 15.209(a), are identical to those in RSS-Gen section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377 Ohmes. For example, the measurement at frequency 9 kHz resulted in a level of 45.5 dBuV/m, which is equivalent to 45.5 51.5 = -6.0 dBuA/m, which has the same margin, 3 dB, to the corresponding RSS-Gen Table 6 limit as it has to 15.209(a) limit.

The test results and limit are rounded off to two decimals place, so some differences might be observed. The equipment and cables were not used for factor 0 dB of the data sheets.

Test Data : APPENDIX
Test Result : Pass

Test Report No. : 14800200H-D-R1 Page : 18 of 38

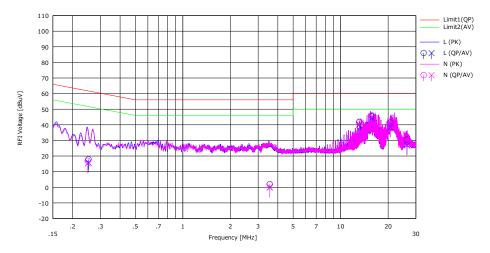
APPENDIX 1: Test Data

Conducted Emission

Test place Ise EMC Lab. No.5 Shielded Room

Date May 26, 2023
Temperature / Humidity 22 deg. C / 57 % RH
Engineer Tetsuro Yoshida
Mode Tx 5731 MHz

Limit: FCC_Part 15 Subpart E(15.207)



	r	Rea	ding	LICNI	LOSS	Res	ults	Lir	nit	Ma	rgin		
No.	Freq.	(QP)	(AV)	LISN	LU55	(QP)	(AV)	(QP)	(AV)	(QP)	(AV)	Phase	Comment
Ш	[MHz]	[dBuV]	[dBuV]	[dB]	[dB]	[dBuV]	[dBuV]	[dBuV]	[dBuV]	[dB]	[dB]		
1	0.25261	4.70	2.60	0.14	13.02	17.86	15.76	61.67	51.67	43.81	35.91	L	
2	3.55594	-1 1.50	-1 3.50	0.33	13.12	1.95	-0.05	56.00	46.00	54.05	46.05	L	
3	13.13110	27.10	25.60	1.25	13.26	41.61	40.11	60.00	50.00	18.39	9.89	L	
4	15.75930	30.60	29.50	1.62	13.29	45.51	44.41	60.00	50.00	14.49	5.59	L	
5	20.65934	25.80	22.70	2.34	13.35	41.49	38.39	60.00	50.00	18.51	11.61	L	
6	26.32362	13.80	10.20	3.24	13.40	30.44	26.84	60.00	50.00	29.56	23.16	L	
7	0.24965	3.80	2.10	0.13	13.01	16.94	15.24	61.77	51.77	44.83	36.53	N	
8	3.55621	-1 1.50	-1 3.40	0.31	13.12	1.93	0.03	56.00	46.00	54.07	45.97	N	
9	13.13121	27.30	25.80	1.31	13.26	41.87	40.37	60.00	50.00	18.13	9.63	N	
10	15.75959	31.10	30.10	1.70	13.29	46.09	45.09	60.00	50.00	13.91	4.91	N	
11	20.65980	26.30	23.00	2.54	13.35	42.19	38.89	60.00	50.00	17.81	11.11	N	
12	26.32312	14.10	10.50	3.40	13.40	30.90	27.30	60.00	50.00	29.10	22.70	N	
İ													

CHART: WITH FACTOR Peak hold data. CALCULATION: RESULT = READING + C.F (LISN + CABLE + ATT) Except for the above table: adequate margin data below the limits.

Test Report No. : 14800200H-D-R1 Page : 19 of 38

6 dB Emission Bandwidth and 99 % Occupied Bandwidth

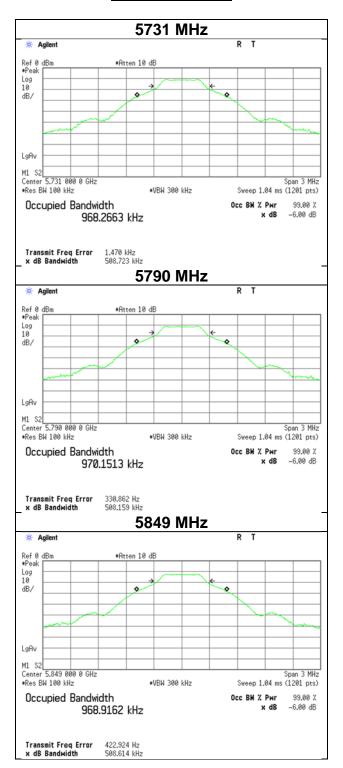
Test place Ise EMC Lab. No.6 Measurement Room
Date May 18, 2023 May 19, 2023
Temperature / Humidity 23 deg. C / 43 % RH
Engineer Nachi Konegawa Nachi Konegawa

Mode T:

Tested	99 % Occupied	6 dB Emission	Limit
Frequency	Bandwidth	Bandwidth	
[MHz]	[kHz]	[MHz]	[MHz]
5731	904.4	0.509	> 0.500
5790	905.1	0.508	> 0.500
5849	904.9	0.509	> 0.500

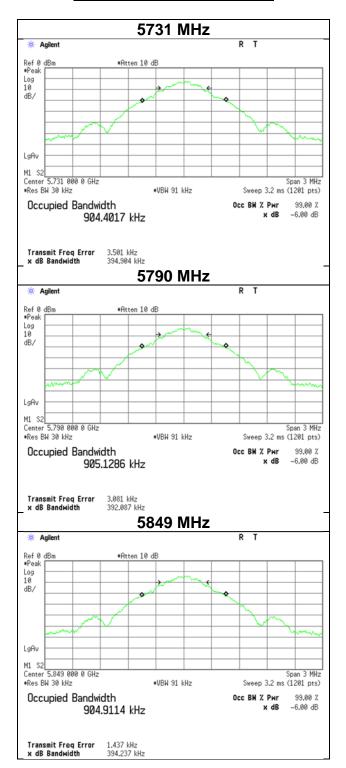
Test Report No. : 14800200H-D-R1 Page : 20 of 38

6 dB Bandwidth



Test Report No. : 14800200H-D-R1 Page : 21 of 38

99 % Occupied Bandwidth



Test Report No. : 14800200H-D-R1

Page : 22 of 38

Maximum Conducted Output Power

Test place Ise EMC Lab. No.6 Measurement Room

May 16, 2023 Date Temperature / Humidity 22 deg. C / 45 % RH Engineer Nachi Konegawa

Mode

Power se	tting (2	dBm)									App	olied limi	t: 15.40	7, acces	ss point
Tested	Power	Cable	Atten.	Duty	Antenna	26 dB	99%		Condu	ucted Powe	er		e.i.	r.p.	
Frequency	Meter	Loss	Loss	Factor	Gain	EBW	OBW	Re	sult	Limit	Margin	Re	sult	Limit	Margin
Reading						(B for FCC)	(B for IC)				-				-
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5731	-10.86	2.01	10.05	0.00	1.90	-	0.90	1.20	1.32	30.00	28.80	3.10	2.04	36.00	32.90
5790	-10.91	2.02	10.06	0.00	1.90	-	0.91	1.17	1.31	30.00	28.83	3.07	2.03	36.00	32.93
5849	-12 21	2.03	10.07	0.00	1 90	-	0.90	-0 11	0.97	30.00	30 11	1 79	1.51	36 00	34 21

Power se	tting (-2	0 dBm)									App	olied limi	it: 15.40	7, acce	ss point
Tested	Power	Cable	Atten.	Duty	Antenna	26 dB	99%		Condu	ucted Powe	er		e.i.	r.p.	
Frequency	Meter	Loss	Loss	Factor	Gain	EBW	OBW	Re	sult	Limit	Margin	Re	sult	Limit	Margin
	Reading					(B for FCC)	(B for IC)								
[MHz]	[dBm]	[dB]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5731	-21.79	0.00	0.00	0.00	1.90		0.90	-21.79	0.007	30.00	51.79	-19.89	0.010	36.00	55.89
5790	-21.89	0.00	0.00	0.00	1.90	-	0.91	-21.89	0.006	30.00	51.89	-19.99	0.010	36.00	55.99
5849	-23.37	0.00	0.00	0.00	1.90	-	0.90	-23.37	0.005	30.00	53.37	-21.47	0.007	36.00	57.47

Sample Calculation:

Conducted Power Result = Reading + Cable Loss + Atten. Loss + Duty Factor

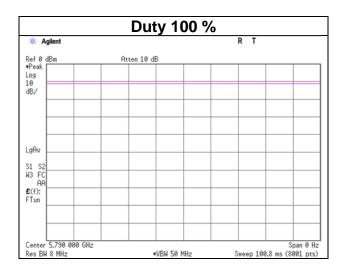
e.i.r.p. Result = Conducted Power Result + Antenna Gain
Conducted Power Limit (5250 MHz-5350 MHz, 5470 MHz-5725 MHz) = 250 mW or (11 + 10logB) dBm, whichever is lower

Conducted Power Limit (5725 MHz-5850 MHz) = 1W

Test Report No. : 14800200H-D-R1 Page : 23 of 38

Burst rate confirmation

Test place Date Temperature / Humidity Engineer Mode Ise EMC Lab. No.6 Measurement Room May 17, 2023 24 deg. C / 46 % RH Nachi Konegawa Tx



^{*} Since the burst rate is not different between the channels, the data has been obtained on the representative channel.

Test Report No. : 14800200H-D-R1

: 24 of 38 Page

Maximum Power Spectral Density

Test place Ise EMC Lab. No.6 Measurement Room

May 22, 2023 Date 26 deg. C / 42 % RH Temperature / Humidity Engineer Tetsuro Yoshida Mode

Applied limit: 15.407, access point

												-	
Tes	ted	PSD	Cable	Atten.	Duty	Antenna	RBW	PSD	(Conduc	cted)	P	SD (e.i.r.p	D.)
Frequ	iency	Reading	Loss	Loss	Factor	Gain	Correction	Result	Limit	Margin	Result	Limit	Margin
		[dBm					Factor	[dBm	[dBm		[dBm	[dBm	
[Mł	Hz]	/MHz]	[dB]	[dB]	[dB]	[dBi]	[dB]	/MHz]	/MHz]	[dB]	/MHz]	/MHz]	[dB]
,	5731	-2.36	2.01	0.00	0.00	1.9	0.27	-0.08	30.00	30.08	1.82	36.00	34.18
	5790	-2.23	2.02	0.00	0.00	1.9	0.27	0.06	30.00	29.94	1.96	36.00	34.04
	5849	-3.75	2.03	0.00	0.00	1.9	0.27	-1.45	30.00	31.45	0.45	36.00	35.55

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5731 MHz to 5849 MHz are based on any 500 kHz band.

RBW Correction Factor = 10 * log (Specified bandwidth / Measured bandwidth)

PSD Result (Conducted) = Reading + Cable Loss + Atten. Loss + Duty Factor + RBW Correction Factor

PSD Result (e.i.r.p.) = Conducted PSD Result + Antenna Gain

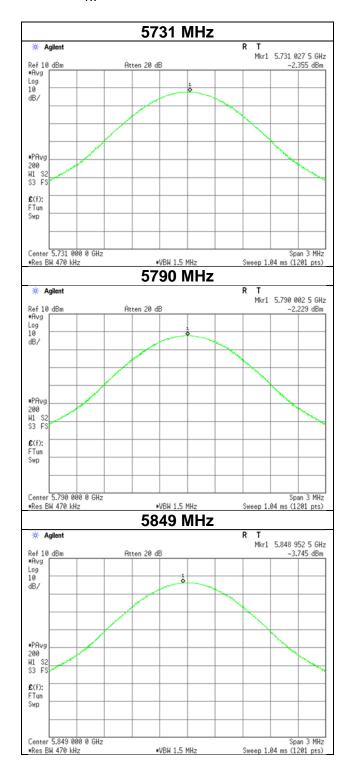
The conducted PSD limit was reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. (All frequencies for FCC, 5725 MHz-5850 MHz for IC)

^{*}The equipment and cables were not used for factor 0 dB of the data sheets.

Test Report No. : 14800200H-D-R1 Page : 25 of 38

Maximum Power Spectral Density

Test place Date Temperature / Humidity Engineer Mode Ise EMC Lab. No.6 Measurement Room May 22, 2023 26 deg. C / 42 % RH Tetsuro Yoshida Tx



Test Report No. : 14800200H-D-R1 : 26 of 38 Page

Radiated Spurious Emission

Test place Semi Anechoic Chamber

Date Temperature / Humidity Engineer

Ise EMC Lab. No.2 May 24, 2023 24 deg. C / 30 % RH Daiki Matsui (1 GHz to 10 GHz) Tx 5731 MHz

No.2 May 25, 2023 23 deg. C / 46 % RH Daiki Matsui (10 GHz to 18 GHz)

No.2 May 28, 2023 25 deg. C / 42 % RH Takumi Nishida (18 GHz to 40 GHz)

Large chamber May 28, 2023 25 deg. C / 42 % RH Daiki Matsui Below 1 GHz

Mode

		Reading	Reading	Ant.			Duty	Result	Result	Limit	Limit	Margin	Margin	
Polarity	Frequency	(QP / PK)	(AV)	Factor	Loss	Gain	Factor	(QP/PK)	(AV)	(QP/PK)	(AV)	(QP/PK)	(AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	46.6	29.1	_	10.5	7.4	33.0	-	13.9	-	40.0	-	26.1	-	
Hori.	62.9	38.9	-	9.4	7.6	33.0	-	22.9	-	40.0	-	17.1	-	
Hori.	105.6	33.1	_	10.4	8.1	33.0	-	18.6	-	43.5	-	24.9	-	
Hori.	128.2	35.8	-	11.2	8.4	33.0	-	22.4	-	43.5	-	21.1	-	
Hori.	204.0	31.6	-	11.5	9.0	32.9	-	19.3	-	43.5	-	24.3	-	
Hori.	361.2	34.9	-	14.2	10.1	33.0	-	26.2	-	46.0	-	19.8	-	
Hori.	2403.0	64.1	-	27.6	4.3	34.9	-	61.0	-	68.2	-	7.2	-	
Hori.	3328.0	48.9	-	28.2	4.7	34.4	-	47.4	-	68.2	-	20.8	-	
Hori.	5650.0	42.2	-	31.9	5.7	33.9	-	45.8	-	68.2	-	22.4	-	
Hori.	5700.0	42.5	-	32.0	5.7	33.9	-	46.3	-	105.2	-	58.9	-	
Hori.	5720.0	42.6	_	32.0	5.7	33.9	-	46.4	-	110.8	-	64.4	-	
Hori.	5725.0	43.5	-	32.1	5.7	33.9	-	47.4	-	122.2	-	74.9	-	
Hori.	6656.0	54.7	-	34.3	6.0	33.9	-	61.1	-	68.2	-	7.1	-	
Hori.	7209.0	48.1	-	35.9	6.2	34.0	-	56.3	-	68.2	-	11.9	-	
Hori.	11462.0	43.0	34.1	40.1	-1.9	33.9	-	47.3	38.4	73.9	53.9	26.6	15.5	Floor noise
Hori.	17193.0	43.6	-	41.9	-0.4	33.1	-	52.0	-	68.2	-	16.2	-	Floor noise
Hori.	22924.0	45.3	36.2	38.5	-0.9	32.0	-	50.9	41.9	73.9	53.9		12.1	Floor noise
Vert.	46.3	43.1	-	10.5	7.4	33.0	-	28.0	-	40.0	-	12.0	-	
Vert.	62.9	50.3	-	9.4	7.6	33.0	-	34.3	-	40.0	-	5.7	-	
Vert.	105.6	40.5	-	10.4	8.1	33.0	-	26.0	-	43.5	-	17.5	-	
Vert.	131.4	43.5	-	11.4	8.4	33.0	-	30.3	-	43.5	-	13.2	-	
Vert.	204.0	39.4	-	11.5	9.0	32.9	-	27.1	-	43.5	-	16.5	-	
Vert.	361.7	39.1	-	14.2	10.1	33.0	-	30.5	-	46.0	-	15.5	-	
Vert.	2403.0	59.9	-	27.6	4.3	34.9	-	56.7	-	68.2	-	11.5	-	
Vert.	3328.0	46.6	-	28.2	4.7	34.4	-	45.1	-	68.2	-	23.1	-	
Vert.	5650.0	42.6	-	31.9	5.7	33.9	-	46.3	-	68.2	-	21.9	-	
Vert.	5700.0	43.7	-	32.0	5.7	33.9	-	47.5	-	105.2	-	57.7	-	
Vert.	5720.0 5725.0	43.6	-	32.0	5.7	33.9 33.9	-	47.4 48.8	-	110.8 122.2	-	63.4	-	
Vert.	5725.0 6656.0	44.9 55.7	-	32.1 34.3	5.7 6.0	33.9	-	48.8 62.2	-	122.2 68.2	-	73.4 6.1	-	
Vert. Vert.	7209.0	47.0	-	35.9	6.2	34.0	-	55.1	-	68.2	-	13.1	-	
vert. Vert.	11462.0	47.0	33.7	35.9 40.1	-1.9	33.9	-	46.6	38.0	73.9	53.9		15.0	Floor noise
Vert.	17193.0	44.5	33.1	41.9	-0.4	33.5]	52.9	30.0	68.2	33.9	15.3		Floor noise
Vert.	22924.0	45.1	36.1	38.5	-0.4	32.0]	50.7	41.7	73.9	53.9			Floor noise
VOIL.	22027.0	73.1	30.1	50.5	-0.9	52.0		50.7	71.7	13.9	55.8	23.2	12.2	130110180

Distance factor: 1 GHz - 10 GHz $20\log (3.65 \text{ m} / 3.0 \text{ m}) = 1.71 \text{ dB}$

10 GHz - 40 GHz $20\log (1.0 \text{ m} / 3.0 \text{ m}) = -9.5 \text{ dB}$

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

^{*}Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB).

^{*}QP detector was used up to 1GHz.

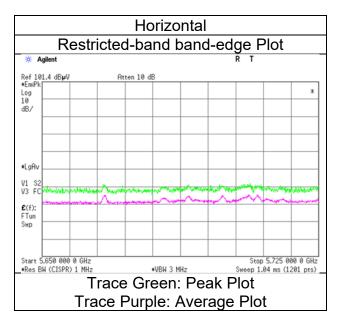
Test Report No. : 14800200H-D-R1 Page : 27 of 38

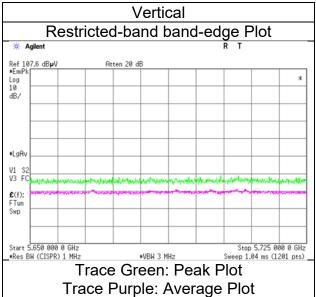
Radiated Spurious Emission

Test place Semi Anechoic Chamber Date Temperature / Humidity Engineer

Mode

Ise EMC Lab. No.2 May 24, 2023 24 deg. C / 30 % RH Daiki Matsui (1 GHz to 10 GHz) Tx 5731 MHz





^{*} The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

Final result of restricted band edge was shown in tabular data.

Test Report No. : 14800200H-D-R1 : 28 of 38 Page

Radiated Spurious Emission

Test place

Semi Anechoic Chamber No.2

Date

Temperature / Humidity

Engineer

Mode

Ise EMC Lab.

May 24, 2023

24 deg. C / 30 % RH

Daiki Matsui (1 GHz to 10 GHz) Tx 5790 MHz

No.2

May 25, 2023 23 deg. C / 46 % RH

Daiki Matsui (10 GHz to 18 GHz) No.2

May 28, 2023 25 deg. C / 42 % RH

Takumi Nishida (18 GHz to 40 GHz)

		Reading	Reading	Ant.			Duty	Result	Result	Limit	Limit	Margin	Margin	
Polarity	Frequency	(QP/PK)	(AV)	Factor	Loss	Gain	Factor	(QP/PK)	(AV)	(QP/PK)	(AV)	(QP/PK)	(AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	2403.0	64.1	-	27.6	4.3	34.9	-	61.0	-	68.2	-	7.2	-	
Hori.	3387.0	51.1	-	28.3	4.8	34.4	-	49.7	-	68.2	-	18.5	-	
Hori.	6774.0	54.2	-	34.4	6.1	33.9	-	60.7	-	68.2	-	7.5	-	
Hori.	7209.0	48.2	-	35.9	6.2	34.0	-	56.4	-	68.2	-	11.8	-	
Hori.	11580.0	42.9	34.0	39.7	-1.8	33.9	-	46.9	38.0	73.9	53.9	27.0	15.9	Floor noise
Hori.	17370.0	44.1	-	43.1	-0.4	33.0	-	53.9	-	68.2	-	14.3	-	Floor noise
Hori.	23160.0	45.5	-	38.7	-0.9	32.0	-	51.4	-	68.2	-	16.8	-	Floor noise
Vert.	2403.0	60.3	-	27.6	4.3	34.9	-	57.2	-	68.2	-	11.0	-	
Vert.	3387.0	47.1	-	28.3	4.8	34.4	-	45.7	-	68.2	-	22.5	-	
Vert.	6774.0	53.4	-	34.4	6.1	33.9	-	59.9	-	68.2	-	8.3	-	
Vert.	7209.0	46.7	-	35.9	6.2	34.0	-	54.9	-	68.2	-	13.4	-	
Vert.	11580.0	43.7	33.8	39.7	-1.8	33.9	-	47.7	37.9	73.9	53.9	26.2	16.1	Floor noise
Vert.	17370.0	44.1	-	43.1	-0.4	33.0	-	53.9	-	68.2	-	14.3	-	Floor noise
Vert	23160.0	45.3	_	38.7	- ∩ 9	32.0	_	512	_	68.2		17.0	_	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier)

Distance factor: 1 GHz - 10 GHz 20log (3.65 m / 3.0 m) = 1.71 dB

 $20\log (1.0 \text{ m} / 3.0 \text{ m}) = -9.5 \text{ dB}$ 10 GHz - 40 GHz

Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor *Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB). *QP detector was used up to 1GHz.

Test Report No. : 14800200H-D-R1 : 29 of 38 Page

Radiated Spurious Emission

Ise EMC Lab. Test place

Semi Anechoic Chamber

Date

Temperature / Humidity

Engineer

Mode

No.2

May 24, 2023 24 deg. C / 30 % RH

Daiki Matsui (1 GHz to 10 GHz) Tx 5849 MHz

No.2

May 25, 2023 23 deg. C / 46 % RH

Daiki Matsui (10 GHz to 18 GHz) No.2

May 28, 2023 25 deg. C / 42 % RH

Takumi Nishida (18 GHz to 40 GHz)

		Reading	Reading	Ant.			Duty	Result	Result	Limit	Limit	Margin	Margin	
Polarity	Frequency	(QP/PK)	(AV)	Factor	Loss	Gain	Factor	(QP/PK)	(AV)	(QP/PK)	(AV)	(QP/PK)	(AV)	Remark
[Hori/Vert]	[MHz]	[dBuV]	[dBuV]	[dB/m]	[dB]	[dB]	[dB]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dBuV/m]	[dB]	[dB]	
Hori.	2403.0	64.2	-	27.6	4.3	34.9	-	61.1	-	68.2	-	7.1	-	
Hori.	3446.0	50.5	-	28.5	4.8	34.4	-	49.4	-	68.2	-	18.8	-	
Hori.	5850.0	76.2	-	32.4	5.8	34.0	-	80.3	-	122.2	-	41.9	-	
Hori.	5855.0	43.5	-	32.4	5.8	34.0	-	47.7	-	110.8	-	63.1	-	
Hori.	5875.0	43.3	-	32.4	5.8	34.0	-	47.5	-	105.2	-	57.7	-	
Hori.	5925.0	42.3	-	32.5	5.8	34.0	-	46.6	-	68.2	-	21.6	-	
Hori.	6892.0	55.9	-	34.8	6.1	33.9	-	63.0	-	68.2	-	5.2	-	
Hori.	7209.0	48.0	-	35.9	6.2	34.0	-	56.1	-	68.2	-	12.1	-	
Hori.	11698.0	44.0	34.3	39.3	-1.7	33.9	-	47.6	37.9	73.9	53.9	26.3	16.0	Floor noise
Hori.	17547.0	42.9	-	44.0	-0.3	32.9	-	53.7	-	68.2	-	14.5	-	Floor noise
Hori.	23396.0	46.0	-	38.8	-0.8	32.0	-	52.0	-	68.2	-	16.2	-	Floor noise
Vert.	2403.0	60.2	-	27.6	4.3	34.9	-	57.1	-	68.2	-	11.1	-	
Vert.	3446.0	47.8	-	28.5	4.8	34.4	-	46.7	-	68.2	-	21.5	-	
Vert.	5850.0	75.6	-	32.4	5.8	34.0	-	79.7	-	122.2	-	42.5	-	
Vert.	5855.0	43.6	-	32.4	5.8	34.0	-	47.8	-	110.8	-	63.0	-	
Vert.	5875.0	43.4	-	32.4	5.8	34.0	-	47.6	-	105.2	-	57.6	-	
Vert.	5925.0	42.1	-	32.5	5.8	34.0	-	46.3	-	68.2	-	21.9	-	
Vert.	6892.0	53.5	-	34.8	6.1	33.9	-	60.6	-	68.2	-	7.6	-	
Vert.	7209.0	47.0	-	35.9	6.2	34.0	-	55.2	-	68.2	-	13.0	-	
Vert.	11698.0	43.5	34.2	39.3	-1.7	33.9	-	47.2	37.9	73.9		26.7	16.0	Floor noise
Vert.	17547.0	43.7	-	44.0	-0.3	32.9	-	54.6	-	68.2		13.6	-	Floor noise
Vert.	23396.0	45.9	-	38.8	-0.8	32.0	-	51.9	-	68.2	-	16.3	-	Floor noise

Result (QP / PK) = Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) Result (AV)= Reading + Ant Factor + Loss (Cable+Attenuator+Filter+Distance factor(above 1 GHz)) - Gain(Amplifier) + Duty factor

Distance factor: 1 GHz - 10 GHz $20\log (3.65 \text{ m} / 3.0 \text{ m}) = 1.71 \text{ dB}$

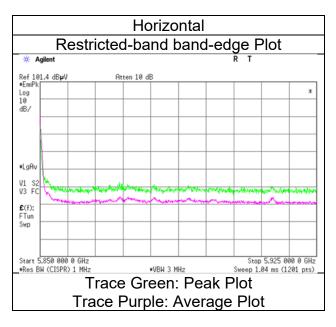
10 GHz - 40 GHz 20log (1.0 m / 3.0 m) = -9.5 dB

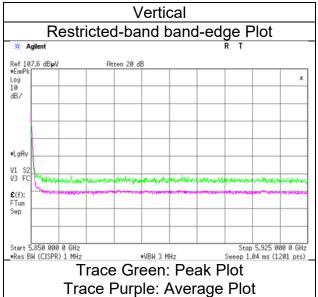
^{*}Other frequency noises omitted in this report were not seen or had enough margin (more than 20 dB). *QP detector was used up to 1GHz.

Test Report No. : 14800200H-D-R1 Page : 30 of 38

Radiated Spurious Emission

Test place Semi Anechoic Chamber Date Temperature / Humidity Engineer Mode Ise EMC Lab. No.2 May 24, 2023 24 deg. C / 30 % RH Daiki Matsui (1 GHz to 10 GHz) Tx 5849 MHz





^{*} The measurement was conducted for a sufficiently long enough time to detect any possible spurious emissions.

Final result of restricted band edge was shown in tabular data.

Test Report No. : 14800200H-D-R1 Page : 31 of 38

Radiated Spurious Emission (Plot data, Worst case mode for Maximum Conducted Output Power)

Test place Semi Anechoic Chamber Date Temperature / Humidity Engineer

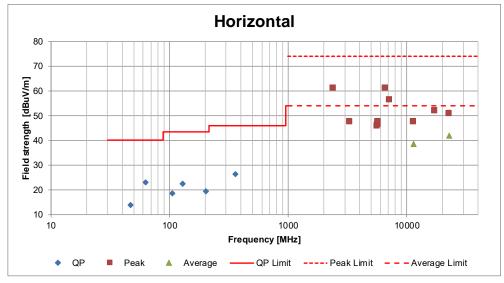
Mode

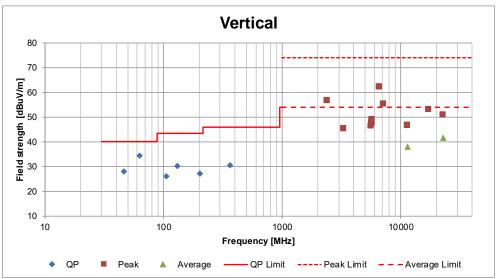
No.2 May 24, 2023 24 deg. C / 30 % RH Daiki Matsui (1 GHz to 10 GHz) Tx 5731 MHz

Ise EMC Lab.

No.2 May 25, 2023 23 deg. C / 46 % RH Daiki Matsui (10 GHz to 18 GHz)

No.2 May 28, 2023 25 deg. C / 42 % RH Takumi Nishida (18 GHz to 40 GHz) Large chamber May 28, 2023 25 deg. C / 42 % RH Daiki Matsui Below 1 GHz





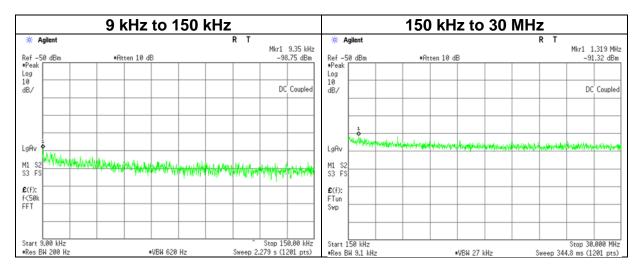
^{*}These plots data contains sufficient number to show the trend of characteristic features for EUT.

Test Report No. : 14800200H-D-R1 Page : 32 of 38

Conducted Spurious Emission

Test place Ise EMC Lab. No.6 Measurement Room Date May 18, 2023

Temperature / Humidity 23 deg. C / 43 % RH Engineer Nachi Konegawa Mode Tx 5731 MHz



Frequency	Reading	Cable	Attenuator	Antenna	N	EIRP	Distance	Ground	E	Limit	Margin	Remark
		Loss		Gain*	(Number			bounce	(field strength)			
[kHz]	[dBm]	[dB]	[dB]	[dBi]	of Output)	[dBm]	[m]	[dB]	[dBuV/m]	[dBuV/m]	[dB]	
9.35	-98.8	0.00	9.8	2.0	1	-86.9	300	6.0	-25.7	48.1	73.8	
1319.00	-91.3	0.01	9.8	2.0	1	-79.5	30	6.0	1.8	25.1	23.3	

E [dBuV/m] = EIRP [dBm] - 20 log (Distance [m]) + Ground bounce [dB] + 104.8 [dBuV/m]

EIRP[dBm] = Reading [dBm] + Cable loss [dB] + Attenuator Loss [dB] + Antenna gain [dBi] + 10 * log (N)

N: Number of output

^{*2.0} dBi was applied to the test result based on KDB 789033 since antenna gain was less than 2.0 dBi.

Test Report No. : 14800200H-D-R1 Page : 33 of 38

APPENDIX 2: Test Instruments

Test Equipment (1/2)

	Equipme	nt (1/2)						
Test Item	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	MAT-10	141156	Attenuator (10dB)	Weinschel Corp	2	BL1173	11/10/2022	12
ΑT	MAT-91	141420	Attenuator	Weinschel Associates	WA56-10	56100307	05/18/2023	12
ΑT	MCC-138	141410	Microwave cable	Huber+Suhner	SUCOFLEX 102	37953/2	09/11/2022	12
AT	MCC-243	196430	Microwave Cable	Huber+Suhner	SF102D/11PC24/ 11PC24/1000mm	537059/126EA	02/02/2023	12
AT	MMM-18	141558	Digital Tester (TRUE RMS MULTIMETER)	Fluke Corporation	115	17930030	05/29/2023	12
AT	MOS-14	141561	Thermo- Hygrometer	CUSTOM. Inc	CTH-201	1401	01/13/2023	12
AT	MPM-01	141801	Power Meter	Keysight Technologies Inc	E4417A	GB41290639	04/11/2023	12
ΑT	MPM-08	141805	Power Meter	Anritsu Corporation	ML2495A	6K00003338	07/04/2022	12
AT	MPSE-03	141837	Power sensor	Keysight Technologies Inc	E9327A	US40440576	04/11/2023	12
AT	MPSE-11	141840	Power sensor	Anritsu Corporation	MA2411B	11737	07/04/2022	12
AT	MSA-13	141900	Spectrum Analyzer	Technologies Inc	E4440A	MY46185823	09/27/2022	12
AT	MSA-16	141903	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46186390	01/16/2023	12
CE	MAT-67	141248	Attenuator	JFW Industries, Inc.	50FP-013H2 N	-	12/22/2022	12
CE	MCC-225	166638	Coaxial cable	UL Japan	MP4/6-5D-2W	MP4/6	12/17/2022	12
CE	MJM-28	142229	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
CE	MLS-23	141357	LISN(AMN)	Schwarzbeck Mess- Elektronik OHG	NSLK8127	8127-729	07/28/2022	12
CE	MLS-24	141358	LISN(AMN)	Schwarzbeck Mess- Elektronik OHG	NSLK8127	8127-730	07/28/2022	12
CE	MMM-11	141546	Digital HiTESTER	HIOKI E.E. CORPORATION	3805	060100600	05/29/2023	12
CE	MOS-17	141563	Thermo- Hygrometer	CUSTOM. Inc	CTH-180	1005	01/13/2023	12
CE	MTA-55	141937	Terminator	TME	CT-01BP	-	12/14/2022	12
CE	MTR-10	141951	EMI Test Receiver		ESR26	101408	07/25/2022	12
RE	COTS- MEMI-02	178648	EMI measurement program	TSJ (Techno Science Japan)	TEPTO-DV	-	-	-
RE	JAEC- 01(NSA)	199242	Semi-Anechoic Chamber	Riken Environmental System	Large Chamber	1	02/09/2023	24
RE	JAT-02	199050	Attenuator (6dB)	Anritsu Corporation	BW-N6W5+	1926	11/17/2022	12
RE	JBA-01- EMC	199476	Biconical antenna	Schwarzbeck Mess- Elektronik OHG	VHBB9124+ BBA9106	01410	05/16/2023	12
RE	JCC-15	199212	Microwave Cable	Huber+Suhner	S04272B/RFM-E721/ Sucofeed/SF106	-	11/28/2022	12
RE	JDM-01	199067	Digital Multimeter	SANWA	PC7000	19105100121	06/01/2022	12
RE	JJM-01	199065	Measure	SHINWA	80814	001	-	-
RE	JLA-01- EMC	199477	Logperiodic antenna	Schwarzbeck Mess- Elektronik OHG	VULP9118A	00831	05/16/2023	12
RE	JOS-07	221241	Thermo- Hygrometer	Mother tool	MHB-382SD	55534	07/03/2022	12
RE	JPA-02	198470	Broadband Amplifier	SONOMA	310N	400557	01/12/2023	12
RE	JTR-03	213780	EMI Test Receiver	Rohde & Schwarz	ESW8	103079	12/07/2022	12
RE	MAEC-02	142004	AC2_Semi Anechoic Chamber (NSA)	TDK	Semi Anechoic Chamber 3m	DA-06902	05/30/2022	24
RE	MAEC-02- SVSWR	142006	AC2_Semi Anechoic Chamber (SVSWR)	TDK	Semi Anechoic Chamber 3m	DA-06902	04/17/2023	24

Test Report No. : 14800200H-D-R1 Page : 34 of 38

Test Equipment (2/2)

Test Item	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	
RE	MCC-176	141279	Microwave Cable	Junkosha	MMX221- 00500DMSDMS	1502S303	03/08/2023	12
RE	MCC-218	141394	Microwave Cable	Junkosha	MWX221	1607S141(1 m) / 1608S264(5 m)	09/12/2022	12
RE	MCC-224	160324	Coaxial Cable	Huber+Suhner	SUCOFLEX 102A	MY009/2A	10/19/2022	12
RE	MHA-06	141512	Horn Antenna 1-18GHz	Schwarzbeck Mess- Elektronik OHG	BBHA9120D	254	10/20/2022	12
RE	MHA-16	141513	Horn Antenna 15-40GHz	Schwarzbeck Mess- Elektronik OHG	BBHA9170	BBHA9170306	07/05/2022	12
RE	MHA-29	141517	Horn Antenna 26.5-40GHz	ETS-Lindgren	3160-10	152399	11/14/2022	12
RE	MHF-16	141406	High Pass Filter 7-20GHz	TOKIMEC	TF37NCCA	7001	09/07/2022	12
RE	MJM-27	142228	Measure, Tape, Steel	KOMELON	KMC-36	-	-	-
RE	MMM-01	141542	Digital Tester	Fluke Corporation	FLUKE 26-3	78030611	08/12/2022	12
RE	MOS-41	192300	Thermo- Hygrometer	CUSTOM. Inc	CTH-201	0013	12/17/2022	12
RE	MPA-10	141579	Pre Amplifier	Keysight Technologies Inc	8449B	3008A02142	02/14/2023	12
RE	MPA-22	141588	Pre Amplifier	L3 Narda-MITEQ	AMF-6F-2600400- 33-8P / AMF-4F-2600400- 33-8P	1871355 / 1871328	01/24/2023	12
RE	MSA-22	141978	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY46180899	03/06/2023	12

^{*}Hyphens for Last Calibration Date and Cal Int (month) are instruments that Calibration is not required (e.g. software), or instruments checked in advance before use.

The expiration date of the calibration is the end of the expired month. As for some calibrations performed after the tested dates, those test equipment have been controlled by means of an unbroken chains of calibrations.

All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or international standards.

Test item:

AT: Antenna Terminal Conducted test

CE: Conducted Emission RE: Radiated Emission