RADIO TEST REPORT

Test Report No. : 14071795S-C

Applicant	:	**DENSO CORPORATION**
Type of EUT	:	**Cockpit Control Unit**
Model Number of EUT	:	**DNNS124**
FCC ID	:	**HYQDNNS124**
Test regulation	:	**FCC Part 15 Subpart E: 2021** ***WLAN (5 GHz band) part**
Test result	:	**Complied (Refer to SECTION 3)**

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2. The results in this report apply only to the sample tested.
3. This sample tested is in compliance with the limits of the above regulation.
4. The test results in this test report are traceable to the national or international standards.
5. This test report must not be used by the customer to claim product certification, approval, or endorsement by the A2LA accreditation body.
6. This test report covers Radio technical requirements.
   It does not cover administrative issues such as Manual or non-Radio test related Requirements. (if applicable)
7. The all test items in this test report are conducted by UL Japan, Inc. Shonan EMC Lab.
8. The opinions and the interpretations to the result of the description in this report are outside scopes where UL Japan has been accredited.
9. The information provided from the customer for this report is identified in SECTION 1.

Date of test: February 1 to August 12, 2021

Representative test engineer:
Shiro Kobayashi
Engineer

Approved by:
Kazutaka Takeyama
Leader

CERTIFICATE 1266.03

☐ The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in UL Japan.
☒ There is no testing item of "Non-accreditation".

REVISION HISTORY

Original Test Report No.: 14071795S-C

Revision	Test report No.	Date	Page revised	Contents
- (Original)	14071795S-C	November 25, 2021	-	-

Reference: Abbreviations (Including words undescribed in this report)

A2LA	The American Association for Laboratory Accreditation
AC	Alternating Current
AFH	Adaptive Frequency Hopping
AM	Amplitude Modulation
Amp, AMP	Amplifier
ANSI	American National Standards Institute
Ant, ANT	Antenna
AP	Access Point
ASK	Amplitude Shift Keying
Atten., ATT	Attenuator
AV	Average
BPSK	Binary Phase-Shift Keying
BR	Bluetooth Basic Rate
BT	Bluetooth
BT LE	Bluetooth Low Energy
BW	BandWidth
Cal Int	Calibration Interval
CCK	Complementary Code Keying
Ch., CH	Channel
CISPR	Comite International Special des Perturbations Radioelectriques
CW	Continuous Wave
DBPSK	Differential BPSK
DC	Direct Current
D-factor	Distance factor
DFS	Dynamic Frequency Selection
DQPSK	Differential QPSK
DSSS	Direct Sequence Spread Spectrum
EDR	Enhanced Data Rate
EIRP, e.i.r.p.	Equivalent Isotropically Radiated Power
EMC	ElectroMagnetic Compatibility
EMI	ElectroMagnetic Interference
EN	European Norm
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
Freq.	Frequency
FSK	Frequency Shift Keying
GFSK	Gaussian Frequency-Shift Keying
GNSS	Global Navigation Satellite System
GPS	Global Positioning System
Hori.	Horizontal
ICES	Interference-Causing Equipment Standard
IEC	International Electrotechnical Commission
IEEE	Institute of Electrical and Electronics Engineers
IF	Intermediate Frequency
ILAC	International Laboratory Accreditation Conference
ISED	Innovation, Science and Economic Development Canada
ISO	International Organization for Standardization
JAB	Japan Accreditation Board
LAN	Local Area Network
LIMS	Laboratory Information Management System
MCS	Modulation and Coding Scheme
MRA	Mutual Recognition Arrangement
N/A	Not Applicable
NIST	National Institute of Standards and Technology
NS	No signal detect.
NSA	Normalized Site Attenuation
NVLAP	National Voluntary Laboratory Accreditation Program
OBW	Occupied Band Width
OFDM	Orthogonal Frequency Division Multiplexing
P/M	Power meter
PCB	Printed Circuit Board
PER	Packet Error Rate
PHY	Physical Layer
PK	Peak
PN	Pseudo random Noise
PRBS	Pseudo-Random Bit Sequence
PSD	Power Spectral Density
QAM	Quadrature Amplitude Modulation
QP	Quasi-Peak
QPSK	Quadri-Phase Shift Keying
RBW	Resolution Band Width
RDS	Radio Data System
RE	Radio Equipment
RF	Radio Frequency
RMS	Root Mean Square
RSS	Radio Standards Specifications
Rx	Receiving
SA, S/A	Spectrum Analyzer
SG	Signal Generator
SVSWR	Site-Voltage Standing Wave Ratio
TR	Test Receiver
Tx	Transmitting
VBW	Video BandWidth
Vert.	Vertical
WLAN	Wireless LAN

CONTENTS **PAGE**

SECTION 1: Customer information

Company Name	:	DENSO CORPORATION
Address	:	1-1 Showa-cho, Kariya-shi, Aichi ken, 448-8661 Japan
Telephone Number	:	+81-566-20-3304
Facsimile Number	:	+81-566-25-4920
Contact Person	:	Naoto Makino

The information provided from the customer is as follows;
- Applicant, Type 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
- 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

Type	:	Cockpit Control Unit
Model Number	:	DNNS124
Serial Number	:	Refer to SECTION 4.2
Rating	:	DC 13.2 V
Receipt Date	:	January 29, 2021 (DNNS122) March 11, 2021 (DNNS124)
Country of Mass-production	:	USA
Condition	:	Production prototype (Not for Sale: This sample is equivalent to mass-produced items.)
Modification	:	No Modification by the test lab.

2.2 Product Description

Model: DNNS124 (referred to as the EUT in this report) is a Cockpit Control Unit.

Radio Specification

Clock frequency(Maximum) : 40 MHz

	Bluetooth (BR/EDR)
Frequency of operation	2402 MHz - 2480 MHz
Channel spacing	1 MHz
Modulation	FHSS (GFSK, π/4-DQPSK, 8DPSK)
Antenna type	External Antenna
Antenna Gain	2.55 dBi (Max)

	IEEE802.11b	**IEEE802.11g**	**IEEE802.11n (20 MHz band)**	**IEEE802.11n (40 MHz band)**
Frequency of operation	2412 MHz - 2462 MHz	2412 MHz - 2462 MHz	2412 MHz - 2462 MHz 5180 MHz - 5240 MHz 5745 MHz - 5825 MHz	5190 MHz - 5230 MHz 5755 MHz - 5795 MHz
Channel spacing	5 MHz		2.4 GHz band 5 MHz 5 GHz band 20 MHz	5 GHz band 40 MHz
Modulation	DSSS: DBPSK, DQPSK, CCK	OFDM: BPSK, QPSK, 16QAM, 64QAM		
	IEEE802.11a	**IEEE802.11ac (20 MHz band)**	**IEEE802.11ac (40 MHz band)**	**IEEE802.11ac (80 MHz band)**
Frequency of operation	5180 MHz - 5240 MHz 5745 MHz - 5825 MHz	5180 MHz - 5240 MHz 5745 MHz - 5825 MHz	5190 MHz - 5230 MHz 5755 MHz - 5795 MHz	5210 MHz 5775 MHz
Channel spacing	20 MHz		40 MHz	80 MHz
Modulation	OFDM BPSK, QPSK, 16QAM, 64QAM, 256QAM (*256QAM is only for IEEE802.11ac 80 MHz band)			
Antenna type	External Antenna			
Antenna Gain	Main Antenna: Chain0 : 2.55 dBi (2.4 GHz), 0.02 dBi (5 GHz) Sub Antenna: Chain1 : -2.10 dBi (2.4 GHz), -5.26 dBi (5 GHz)			

[AM/FM Radio]

	AM	**FM (incl. RBDS)**
Equipment type	Receiver	
Frequency of operation	522 kHz to 1629 kHz	87 MHz to 108 MHz

FM tuner specification
Intermediate frequency: 220 kHz

*The EUT is the modified version of model and the difference from DNNS122 is as below.
- Deletion of XM PCB
- Change of Tuner PCB

The radio specification other than above is identical to the original test report (13692701S-C-R2).
For verifying the equivalence between DNNS124 and DNNS122, spot-check tests were performed on RF Output power and Radiated Spurious Emission.
As a result, the deviation of worst value was within ±0.5 dB at RF Output power test and ±3.0 dB at Radiated Spurious Emission test, and the equivalence between DNNS124 and DNNS122 was confirmed.
Therefore the data of DNNS122 are included in this report.

SECTION 3: Test specification, procedures & results

3.1 Test Specification

Test Specification	:	FCC Part 15 Subpart E FCC Part 15 final revised on May 3, 2021 and effective July 2, 2021
Title	:	FCC 47 CFR Part 15 Radio Frequency Device Subpart E Unlicensed National Information Infrastructure Devices Section 15.407 General technical requirements

* Also the EUT complies with FCC Part 15 Subpart B.

3.2 Procedures and results

Item	Test Procedure	Specification	Worst margin	Results	Remarks
Conducted Emission	**FCC:** ANSI C63.10-2013	**FCC:** 15.407 (b) (6) / 15.207	-	N/A	*1)
	ISED: RSS-Gen 8.8	**ISED:** RSS-Gen 8.8			
26 dB Emission Bandwidth	**FCC:** KDB Publication Number 789033	**FCC:** 15.407 (a) (1) (2) (3)	See data	N/A a)	Conducted
	ISED: -	**ISED:** -			
Maximum Conducted Output Power	**FCC:** KDB Publication Number 789033	**FCC:** 15.407 (a) (1) (2) (3)		Complied b)	Conducted
	ISED: -	**ISED:** RSS-247 6.2.1.1 6.2.2.1 6.2.3.1 6.2.4.1			
Maximum Power Spectral Density	**FCC:** KDB Publication Number 789033	**FCC :** 15.407 (a) (1) (2) (3)		N/A c)	Conducted
	ISED: -	**ISED:** RSS-247 6.2.1.1 6.2.2.1 6.2.3.1 6.2.4.1			
Spurious Emission Restricted Band Edge	**FCC:** ANSI C63.10-2013 KDB Publication Number 789033	**FCC:** 15.407 (b), 15.205 and 15.209	**DNNS124** 5.9 dB 5150.000 MHz / 5350.000 MHz AV, Hori. Tx 11ac-80 5210 MHz	Complied d) / e)	Conducted (< 30 MHz) / Radiated (> 30 MHz) *2)
	ISED: -	**ISED:** RSS-247 6.2.1.2 6.2.2.2 6.2.3.2 6.2.4.2			
6 dB Emission Bandwidth	**FCC:** ANSI C63.10-2013	**FCC:** 15.407 (e)	See data	Complied f)	Conducted
	ISED: -	**ISED:** RSS-247 6.2.4.1			

Note: UL Japan, Inc.'s EMI Work Procedures No. 13-EM-W0420 and 13-EM-W0422.
*1) The test was not applicable since the EUT does not have AC mains.
*2) Radiated test was selected over 30 MHz based on FCC 15.407 (b) and KDB 789033 D02 G.3.b).

a) Refer to APPENDIX 1 (data of 26 dB Emission Bandwidth and 99 % Occupied Bandwidth)
b) Refer to APPENDIX 1 (data of Maximum Conducted Output Power)
c) Refer to APPENDIX 1 (data of Maximum Power Spectral Density)
d) Refer to APPENDIX 1 (data of Radiated Spurious Emission)
e) Refer to APPENDIX 1 (data of Conducted Spurious Emission)
f) Refer to APPENDIX 1 (data of 6 dB Bandwidth)

Symbols:

Complied	The data of this test item has enough margin, more than the measurement uncertainty.
Complied#	The data of this test item meets the limits unless the measurement uncertainty is taken into consideration.

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

FCC Part 15.31 (e)

The EUT provides stable voltage constantly to the wireless transmitter regardless of input voltage. Instead of a new battery, DC power supply was used for the test. Therefore, this EUT complies with the requirement.

FCC Part 15.203 Antenna requirement

It is impossible for end users to replace the antenna, because the antenna is mounted inside of the vehicle. Therefore, the equipment complies with the antenna requirement of Section 15.203.

3.3 Addition to standard

Item	Test Procedure	Specification	Worst margin	Results	Remarks
99 % Occupied Bandwidth	**ISED:** RSS-Gen 6.7	**ISED:** -	N/A	- a)	Conducted
a) Refer to APPENDIX 1 (data of 99 % Occupied Bandwidth)					

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

3.4 Uncertainty

There is no applicable rule of uncertainty in this applied standard. Therefore, the following results are derived depending on whether or not laboratory uncertainty is applied.

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

Shonan EMC Lab.

Item	Frequency range	Uncertainty (+/-)			
		No. 1 SAC / SR	No. 2 SAC / SR	No. 3 SAC / SR	No. 4,5,6,8 SR
Conducted emission (AC Mains) LISN	150 kHz-30 MHz	2.6 dB	2.6 dB	2.56dB	2.9 dB
Radiated emission (Measurement distance: 3 m)	9 kHz-30 MHz	3.0 dB	2.7 dB	2.7 dB	-
	30 MHz-200 MHz	4.6 dB	4.6 dB	4.6 dB	-
	200 MHz-1 GHz	6.0 dB	6.0 dB	6.0 dB	-
	1 GHz-6 GHz	4.8 dB	4.8 dB	4.8 dB	-
	6 GHz-18 GHz	5.4 dB	5.4 dB	5.4 dB	-
	18 GHz-40 GHz	5.3 dB	5.3 dB	5.3 dB	-
Radiated emission (Measurement distance: 1 m)	1 GHz-18 GHz	5.7 dB	5.7 dB	5.7 dB	-
	18 GHz-40 GHz	5.6 dB	5.6 dB	5.6 dB	-

SAC=Semi-Anechoic Chamber

SR= Shielded Room is applied besides radiated emission

Antenna terminal test	Uncertainty (+/-)
Power Measurement above 1 GHz (Average Detector)_SPM-06	1.4 dB
Power Measurement above 1 GHz (Peak Detector)_SPM-06	1.6 dB
Power Measurement above 1 GHz (Average Detector)_SPM-07	0.89 dB
Power Measurement above 1 GHz (Peak Detector)_SPM-07	1.2 dB
Power Measurement above 1 GHz (Average Detector)_SPM-13	0.91 dB
Power Measurement above 1 GHz (Peak Detector)_SPM-13	1.2 dB
Spurious emission (Conducted) below 1GHz	0.87 dB
Spurious emission (Conducted) 1 GHz-3 GHz	0.96 dB
Spurious emission (Conducted) 3 GHz-18 GHz	3.0 dB
Spurious emission (Conducted) 18 GHz-26.5 GHz	2.6 dB
Spurious emission (Conducted) 26.5 GHz-40 GHz	2.2 dB
Bandwidth Measurement	0.012 %
Duty cycle and Time Measurement	0.27 %
Temperature_SCH-01	0.95 deg.C.
Humidity_SCH-01	0.83 %
Temperature_SCH-02	2.0 deg.C.
Humidity_SCH-02	6.6 %
Voltage	0.86 %

3.5 Test Location

UL Japan, Inc. Shonan EMC Lab.
1-22-3, Megumigaoka, Hiratsuka-shi, Kanagawa-ken 259-1220 JAPAN
Telephone: +81 463 50 6400, Facsimile: +81 463 50 6401
A2LA Certificate Number: 1266.03
(FCC test firm registration number: 626366, ISED lab company number: 2973D / CAB identifier: JP0001)

Test site	IC Registration Number	Width x Depth x Height (m)	Size of reference ground plane (m) / horizontal conducting plane	Maximum measurement distance
No.1 Semi-anechoic chamber	2973D-1	20.6 x 11.3 x 7.65	20.6 x 11.3	10 m
No.2 Semi-anechoic chamber	2973D-2	20.6 x 11.3 x 7.65	20.6 x 11.3	10 m
No.3 Semi-anechoic chamber	2973D-3	12.7 x 7.7 x 5.35	12.7 x 7.7	5 m
No.4 Semi-anechoic chamber	-	8.1 x 5.1 x 3.55	8.1 x 5.1	-
No.1 Shielded room	-	6.8 x 4.1 x 2.7	6.8 x 4.1	-
No.2 Shielded room	-	6.8 x 4.1 x 2.7	6.8 x 4.1	-
No.3 Shielded room	-	6.3 x 4.7 x 2.7	6.3 x 4.7	-
No.4 Shielded room	-	4.4 x 4.7 x 2.7	4.4 x 4.7	-
No.5 Shielded room	-	7.8 x 6.4 x 2.7	7.8 x 6.4	-
No.6 Shielded room	-	7.8 x 6.4 x 2.7	7.8 x 6.4	-
No.8 Shielded room	-	3.45 x 5.5 x 2.4	3.45 x 5.5	-
No.1 Measurement room	-	2.55 x 4.1 x 2.5	-	-

3.6 Test data, Test instruments, and Test set up

Refer to APPENDIX.

SECTION 4: Operation of EUT during testing

4.1 Operating Mode(s)

Test operating mode was determined as follows according to "Section 1 of 6 802.11 a/b/g/n testing - Managing Complex Regulatory Approvals -" of TCB Council Workshop October 2009 and also was judged the necessity of 802.11ac mode by the pre-test.

Mode	Remarks*
IEEE 802.11a (11a)	18 Mbps, PN9
IEEE 802.11n SISO 20 MHz BW (11n-20 SISO)	MCS 2, PN9
IEEE 802.11n MIMO 20 MHz BW (11n-20 MIMO)	MCS 10, PN9
IEEE 802.11ac SISO 20 MHz BW (11ac-20 SISO)	MCS 2, PN9
IEEE 802.11ac MIMO 20 MHz BW (11ac-20 MIMO)	MCS 2, PN9
IEEE 802.11n SISO 40 MHz BW (11n-40 SISO)	MCS 4, PN9
IEEE 802.11n MIMO 40 MHz BW (11n-40 MIMO)	MCS 10, PN9
IEEE 802.11ac SISO 40 MHz BW (11ac-40 SISO)	MCS 6, PN9
IEEE 802.11ac MIMO 40 MHz BW (11ac-40 MIMO)	MCS 2, PN9
IEEE 802.11ac SISO 80 MHz BW (11ac-80 SISO)	MCS 2, PN9
IEEE 802.11ac MIMO 80 MHz BW (11ac-80 MIMO)	MCS 2, PN9

*The worst condition was determined based on the test result of Maximum Conducted Output Power.

*Power of the EUT was set by the software as follows;
Power settings *1): 11a 7.5 dBm,11n-20 6.5 dBm,11ac-20(MCS 0~MCS 7) 6.5 dBm, 11ac-20(MCS 8) 5.5 dBm
11n-40 5.5 dBm,11ac-40(MCS 0~MCS 7) 5.5 dBm, 11ac-40(MCS 8~ MCS 9) 3.5 dBm
11ac-80(MCS 0~MCS 7) 4.5 dBm, 11ac-80(MCS 8~ MCS 9) 2.5 dBm
Software: DNNS122
MSoC Ver.F61WHM010-708
(Date:2020.11.12, Storage location: EUT memory)
DNNS124
MSoC Ver.F67WHM010-708
(Date:2020.11.12, Storage location: EUT memory)

*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.

*1) The power setting values on this table are testing software's settings, therefore it does not represents actual power output level of the product.

*The details of Operation mode(s)

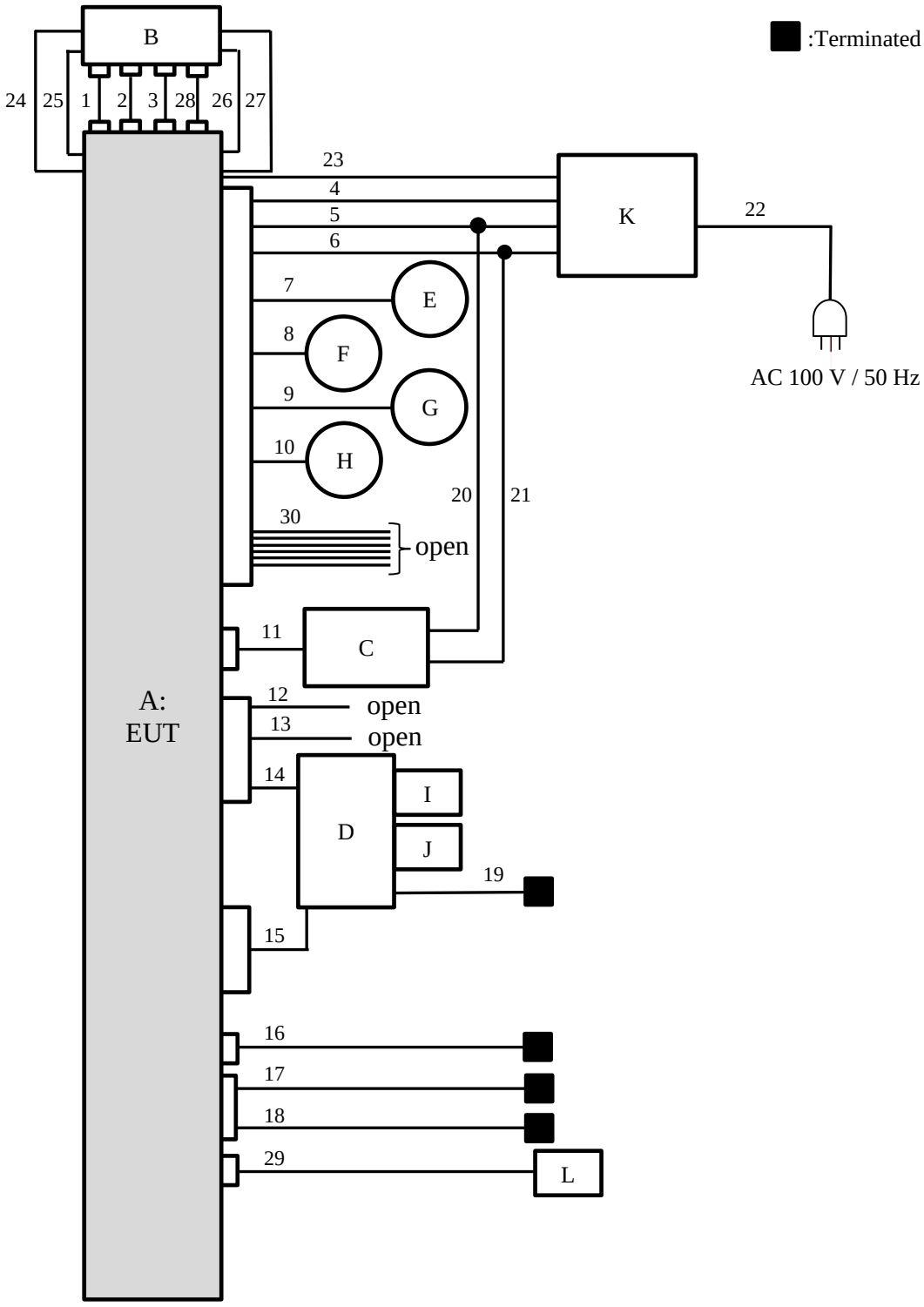
Test Item	Operating Mode	Tested Antenna	Tested Frequency	
			U-NII-1 Band	U-NII-3 Band
99 % Occupied Bandwidth	11a, 11n-20 SISO/MIMO, 11ac-20 SISO/MIMO	Chain0	5180 MHz 5220 MHz 5240 MHz	5745 MHz 5785 MHz 5825 MHz
	11n-40 SISO/MIMO, 11ac-40 SISO/MIMO,	Chain0	5190 MHz 5230 MHz	5755 MHz 5795 MHz
	11ac-80 SISO/MIMO	Chain0	5210 MHz	5775 MHz
Maximum Conducted Output Power *3), Maximum Power Spectral Density	11a, 11n-20 SISO/MIMO, 11ac-20 SISO/MIMO	Chain0, Chain0+Chain1	5180 MHz 5220 MHz 5240 MHz	5745 MHz 5785 MHz 5825 MHz
	11n-40 SISO/MIMO 11ac-40 SISO/MIMO	Chain0, Chain0+Chain1	5190 MHz 5230 MHz	5755 MHz 5795 MHz
	11ac-80 SISO/MIMO	Chain0, Chain0+Chain1	5210 MHz	5775 MHz
6 dB Bandwidth	11a, 11n-20 SISO/MIMO, 11ac-20 SISO/MIMO	Chain0	-	5745 MHz 5785 MHz 5825 MHz
	11n-40 SISO/MIMO, 11ac-40 SISO/MIMO	Chain0	-	5755 MHz 5795 MHz
	11ac-80 SISO/MIMO	Chain0	-	5775 MHz
Radiated Spurious Emission (Below 1 GHz) *1), *3)	11a	Chain0	-	5785 MHz
	11ac-20 MIMO	Chain0+Chain1	-	5745 MHz
	11n-40 MIMO	Chain0+Chain1	5190 MHz	-
Radiated Spurious Emission (Above 1 GHz) *3)	11a, 11n-20 SISO/MIMO, 11ac-20 SISO/MIMO	Chain0, Chain0+Chain1	5180 MHz 5220 MHz 5240 MHz	5745 MHz 5785 MHz 5825 MHz
	11n-40 SISO/MIMO, 11ac-40 SISO/MIMO	Chain0, Chain0+Chain1	5190 MHz 5230 MHz	5755 MHz 5795 MHz
	11ac-80 SISO/MIMO	Chain0, Chain0+Chain1	5210 MHz	5775 MHz
Conducted Spurious Emission *1)	11a	Chain0	-	5785 MHz
	11ac-20 MIMO	Chain0 *2)	-	5745 MHz

*1) The mode was tested as a representative, because it had the highest power at antenna terminal test.
*2) The test was performed with the antenna that had higher power as a representative
*3) Test for spot check was performed on below mode.
Radiated Spurious Emission (Below 1 GHz): 11n-40 MIMO Tx 5190 MHz
Radiated Spurious Emission (Above 1 GHz): 11a Tx, 11n-40 SISO Tx, 11ac-80 SISO Tx
11ac-20 MIMO Tx, 11n-40 MIMO Tx 5190 MHz,
11ac-40 MIMO Tx, 11ac-80 MIMO Tx
(Band Edge Compliance)
11n-40 MIMO Tx 5190 MHz (Other Spurious Emission)
Maximum Conducted Output Power: All mode

4.2 Configuration and peripherals

DNNS122

<Radiated Emission test>



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

Description of EUT and Support equipment

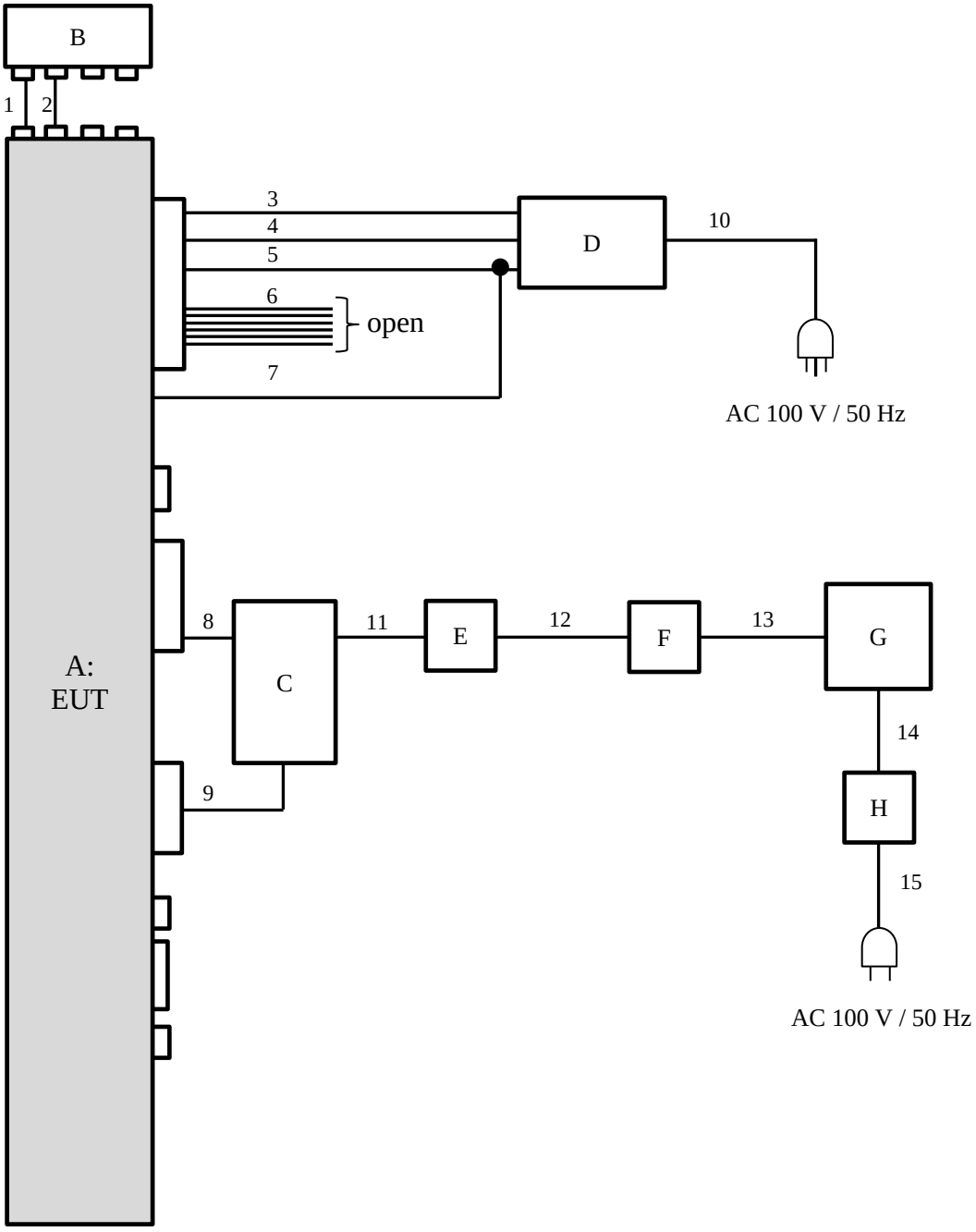
No.	Item	Model number	Serial number	Manufacturer	Remarks
A	Cockpit Control Unit	DNNS122	CP1.5-K3-GZ1-US-High-064	DENSO CORPORATION	EUT
B	Center Information Display	DNNS132	GZ1-SD-HM LHD-077	DENSO CORPORATION	-
C	Meter	85002AN02A	-	DENSO CORPORATION	-
D	AUX-BOX	86257 AN00A	No.5	DENSO CORPORATION	-
E	Speaker L	20FHI-SPRE-03	-	DENSO CORPORATION	-
F	Speaker R	20FHI-SPRE-03	-	DENSO CORPORATION	-
G	Speaker Rear L	20FHI-SPRE-03	-	DENSO CORPORATION	-
H	Speaker Rear R	20FHI-SPRE-03	-	DENSO CORPORATION	-
I	USB Memory	USM4GL-W	-	SONY	-
J	USB Memory	USM4GU	-	SONY	-
K	DC Power supply	PAN60-10A	NL002383	KIKUSUI	-
L	GPS Antenna	86277AL150	03590033	SUBARU	-

List of cables used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	CCU-CID-POW	0.2	Unshielded	Unshielded	-
2	CCU-CID-LVDS	0.2	Unshielded	Unshielded	-
3	CCU-CID-BT	0.2	Unshielded	Unshielded	-
4	DC power(+B)	1.8	Unshielded	Unshielded	-
5	DC power(+IG)	1.8	Unshielded	Unshielded	-
6	DC power(GND)	1.8	Unshielded	Unshielded	-
7	Speaker L	1.8	Unshielded	Unshielded	-
8	Speaker R	1.8	Unshielded	Unshielded	-
9	Speaker Rear L	1.8	Unshielded	Unshielded	-
10	Speaker Rear R	1.8	Unshielded	Unshielded	-
11	Meter	1.8	Unshielded	Unshielded	-
12	USB(Blue)	1.5	Shielded	Shielded	-
13	USB(Brown)	0.15	Shielded	Shielded	-
14	USB(Green)	0.5	Shielded	Shielded	-
15	Power Supply	1.0	Unshielded	Unshielded	-
16	XM	1.0	Shielded	Shielded	-
17	AM/FM	2.0	Shielded	Shielded	-
18	AM/FM	2.0	Shielded	Shielded	-
19	Mini Jack	2.0	Unshielded	Unshielded	-
20	DC power(+IG)	1.2	Unshielded	Unshielded	-
21	DC power(GND)	1.2	Unshielded	Unshielded	-
22	AC	3.0	Unshielded	Unshielded	-
23	GND	2.4	Unshielded	Unshielded	-
24	GND	0.2	Unshielded	Unshielded	-
25	GND	0.2	Unshielded	Unshielded	-
26	GND	0.2	Unshielded	Unshielded	-
27	GND	0.2	Unshielded	Unshielded	-
28	CCU-CID-Wifi	0.2	Unshielded	Unshielded	-
29	GPS	0.8	Shielded	Shielded	-
30	Signal	1.0	Unshielded	Unshielded	-

DNNS122

<Antenna Terminal Conducted test>



Description of EUT and Support equipment

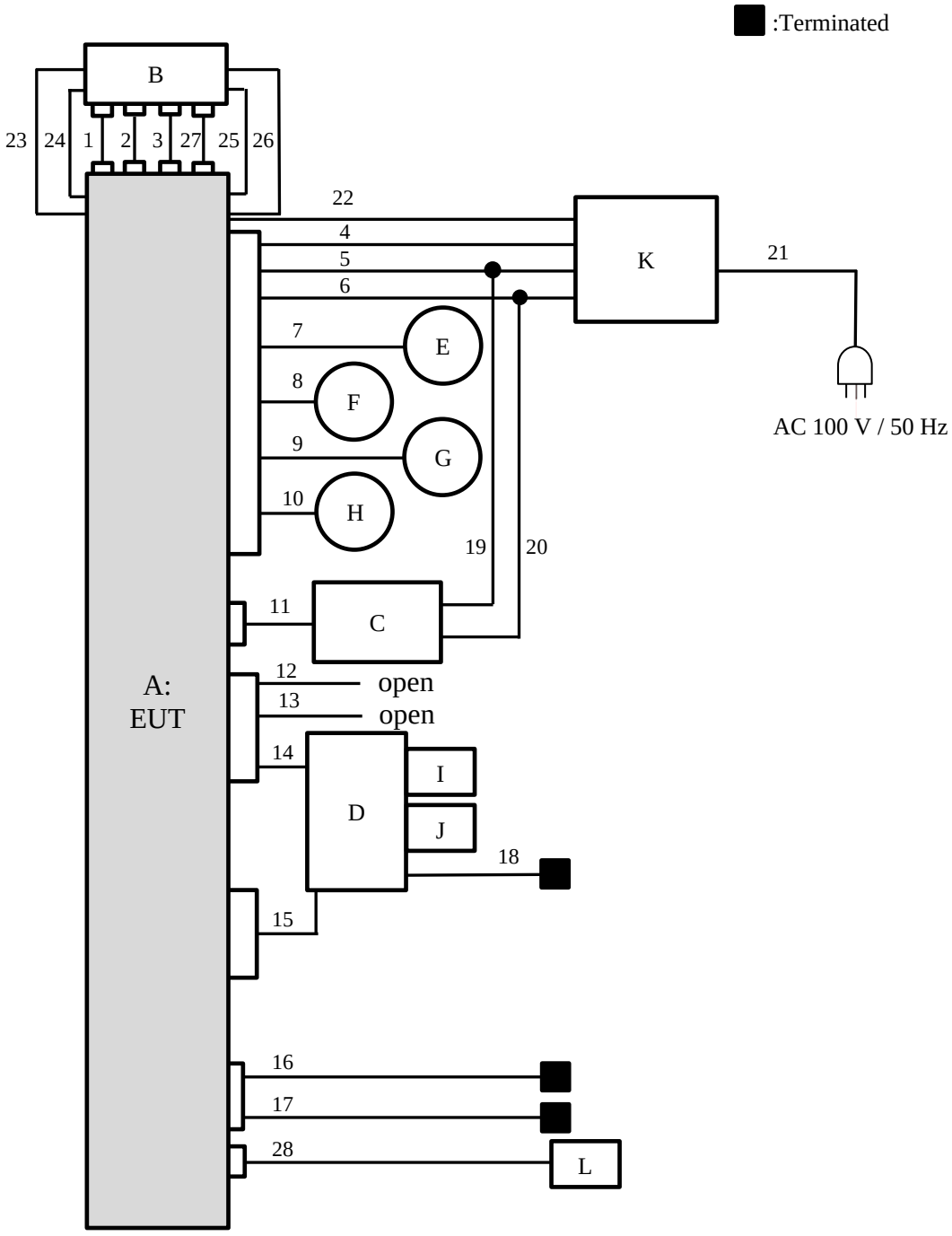
No.	Item	Model number	Serial number	Manufacturer	Remarks
A	Cockpit Control Unit	DNNS122	CP1.5-K3-GZ1-US-High-065	DENSO CORPORATION	EUT
B	Center Information Display	DNNS132	GZ1-SD-HM LHD-077	DENSO CORPORATION	-
C	AUX-BOX	86257 AN00A	No.2	HOSIDEN	-
D	DC Power supply	PAN35-10A	ML002085	KIKUSUI	-
E	USB-LAN Converter	LUA3-U2-ATX	26495680102812	Buffalo	-
F	USB-LAN Converter	LUA3-U2-ATX	26495680815712	Buffalo	-
G	Laptop PC	ThinkPad L580	PF-1PLZHX 19/05	Lenovo	-
H	AC Adaptor	ADLX45YCC2A	8SSA10E75844C1SG94BG7T0	Lenovo	-

List of cables used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	CCU-CID-POW	1.0	Unshielded	Unshielded	-
2	CCU-CID-LVDS	2.0	Unshielded	Unshielded	-
3	DC power(+B)	1.8	Unshielded	Unshielded	-
4	DC power(+IG)	1.8	Unshielded	Unshielded	-
5	DC power(GND)	1.8	Unshielded	Unshielded	-
6	Signal	1.0	Unshielded	Unshielded	-
7	GND	2.4	Unshielded	Unshielded	-
8	USB(Green)	0.5	Shielded	Shielded	-
9	Power Supply	1.0	Unshielded	Unshielded	-
10	AC	3.0	Unshielded	Unshielded	-
11	USB	0.4	Shielded	Shielded	-
12	LAN	2.0	Shielded	Shielded	-
13	USB	0.4	Shielded	Shielded	-
14	DC	1.0	Unshielded	Unshielded	-
15	AC	1.8	Unshielded	Unshielded	-

DNNS124

<Radiated Emission test>



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

Description of EUT and Support equipment

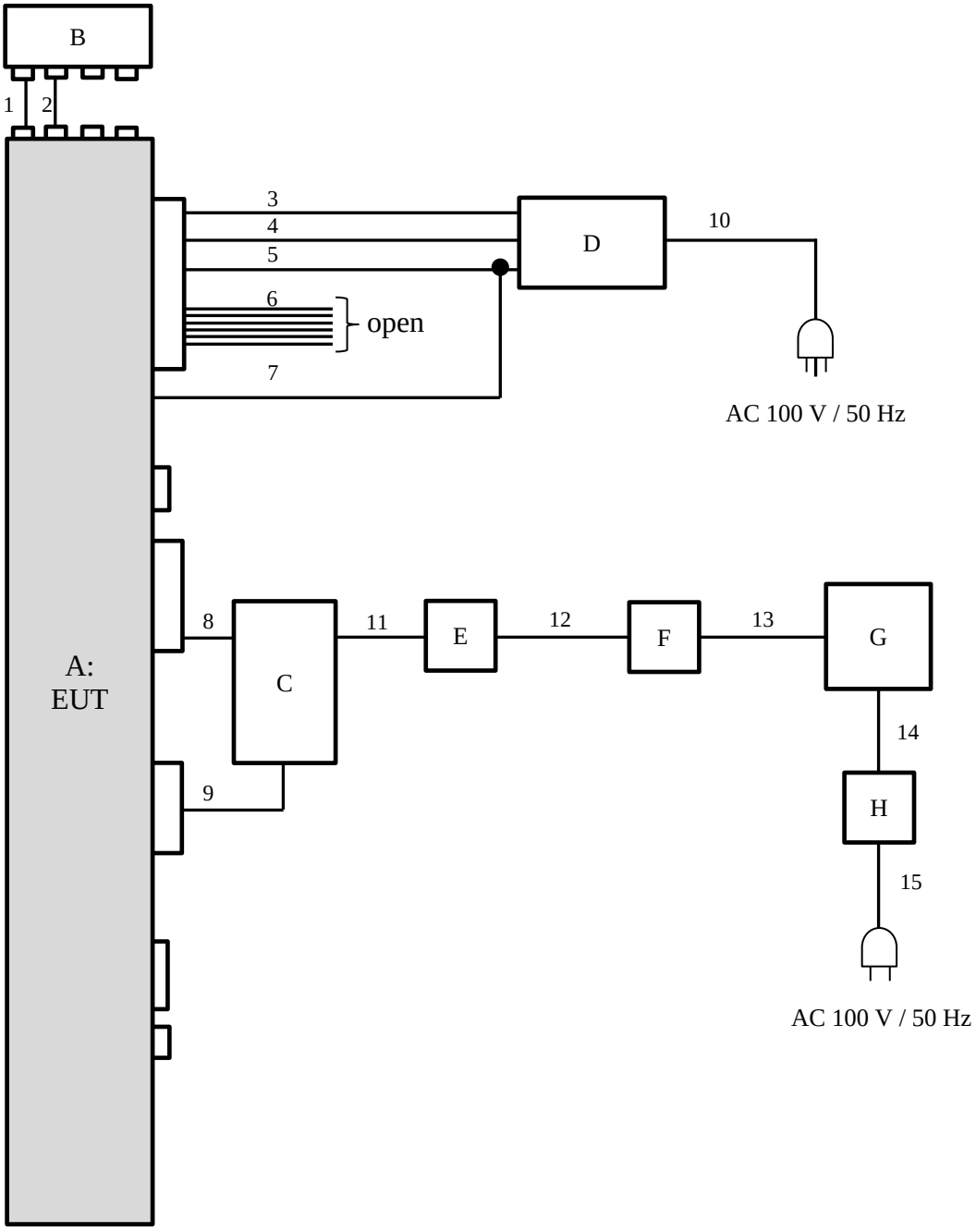
No.	Item	Model number	Serial number	Manufacturer	Remarks
A	Cockpit Control Unit	DNNS124	CP1.5-K3-TM3-ROW-High-190	DENSO CORPORATION	EUT
B	Center Information Display	DNNS132	GZ1-SD-HM LHD-077	DENSO CORPORATION	-
C	Meter	85002AN02A	-	DENSO CORPORATION	-
D	AUX-BOX	86257 AN00A	No.2	HOSIDEN	-
E	Speaker Front L	20FHI-SPRE-03	-	DENSO CORPORATION	-
F	Speaker Front R	20FHI-SPRE-03	-	DENSO CORPORATION	-
G	Speaker Rear L	20FHI-SPRE-03	-	DENSO CORPORATION	-
H	Speaker Rear R	20FHI-SPRE-03	-	DENSO CORPORATION	-
I	USB Memory	USM4GU	-	SONY	-
J	USB Memory	USM4GL-W	-	SONY	-
K	DC Power Supply	PAN35-10A	NA000955	KIKUSUI	-
L	GPS Antenna	86277AL150	03590040	SUBARU	-

List of cables used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	CCU-CID-POW	0.2	Unshielded	Unshielded	-
2	CCU-CID-LVDS	0.2	Shielded	Shielded	-
3	CCU-CID-BT	0.2	Shielded	Shielded	-
4	DC power(+B)	1.8	Unshielded	Unshielded	-
5	DC power(+IG)	1.8	Unshielded	Unshielded	-
6	DC power(GND)	1.8	Unshielded	Unshielded	-
7	Speaker L	1.8	Unshielded	Unshielded	-
8	Speaker R	1.8	Unshielded	Unshielded	-
9	Speaker Rear L	1.8	Unshielded	Unshielded	-
10	Speaker Rear R	1.8	Unshielded	Unshielded	-
11	Meter	1.8	Unshielded	Unshielded	-
12	USB(Blue)	2.0	Shielded	Shielded	-
13	USB(Brown)	0.15	Shielded	Shielded	-
14	USB(Green)	0.4	Shielded	Shielded	-
15	Power Supply	1.0	Unshielded	Unshielded	-
16	AM/FM	2.0	Shielded	Shielded	-
17	AM/FM	2.0	Shielded	Shielded	-
18	Mini Jack	2.0	Unshielded	Unshielded	-
19	DC power(+IG)	1.2	Unshielded	Unshielded	-
20	DC power(GND)	1.2	Unshielded	Unshielded	-
21	AC	1.8	Unshielded	Unshielded	-
22	GND	2.4	Unshielded	Unshielded	-
23	GND	0.15	Unshielded	Unshielded	-
24	GND	0.15	Unshielded	Unshielded	-
25	GND	0.15	Unshielded	Unshielded	-
26	GND	0.15	Unshielded	Unshielded	-
27	CCU-CID-Wifi	0.2	Shielded	Shielded	-
28	GPS	0.8	Shielded	Shielded	-

DNNS124

<Antenna Terminal Conducted test>



Description of EUT and Support equipment

No.	Item	Model number	Serial number	Manufacturer	Remarks
A	Cockpit Control Unit	DNNS124	CP1.5-K3-TM3-ROW-High-177	DENSO CORPORATION	EUT
B	Center Information Display	DNNS132	GZ1-SD-HM LHD-024	DENSO CORPORATION	-
C	AUX-BOX	86257 AN00A	No.5	HOSIDEN	-
D	DC Power supply	PAN35-10A	ML002085	KIKUSUI	-
E	USB-LAN Converter	LUA3-U2-ATX	26495680815712	Buffalo	-
F	USB-LAN Converter	LUA3-U2-ATX	26495680102812	Buffalo	-
G	Laptop PC	ThinkPad L580	PF-1PLZHX 19/05	Lenovo	-
H	AC Adaptor	ADLX45YCC2A	8SSA10E75844C1SG94BG7T0	Lenovo	-

List of cables used

No.	Name	Length (m)	Shield		Remarks
			Cable	Connector	
1	CCU-CID-POW	1.0	Unshielded	Unshielded	-
2	CCU-CID-LVDS	1.5	Shielded	Shielded	-
3	DC power(+B)	1.8	Unshielded	Unshielded	-
4	DC power(+IG)	1.8	Unshielded	Unshielded	-
5	DC power(GND)	1.8	Unshielded	Unshielded	-
6	Signal	1.8	Unshielded	Unshielded	-
7	GND	2.4	Unshielded	Unshielded	-
8	USB(Green)	0.5	Shielded	Shielded	-
9	Power Supply	1.8	Unshielded	Unshielded	-
10	AC	1.8	Unshielded	Unshielded	-
11	USB	0.4	Shielded	Shielded	-
12	LAN	1.0	Unshielded	Unshielded	-
13	USB	0.4	Shielded	Shielded	-
14	DC	1.0	Unshielded	Unshielded	-
15	AC	1.8	Unshielded	Unshielded	-

SECTION 5: Radiated Spurious Emission and Band Edge Compliance

Test Procedure

< Below 1 GHz >
EUT was placed on a urethane platform of nominal size , 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.

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.
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 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 U-NII-3 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:

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

Test Antennas are used as below;

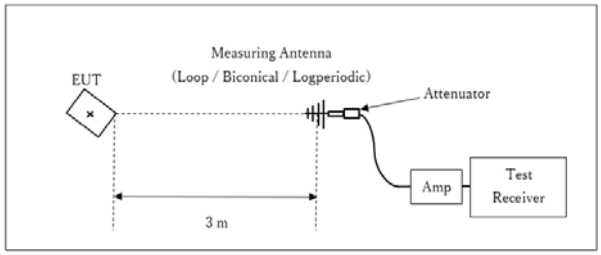
Frequency	30 MHz to 200 MHz	200 MHz to 1 GHz	Above 1 GHz
Antenna Type	Biconical	Logperiodic	Horn

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 VBW: 3 MHz	Method VB *1) RBW: 1 MHz VBW: 1/T MHz (T: Burst length, refer to Appendix) Detector: Peak Trace mode: Max hold

*1) The test method was also referred to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 "Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E".

Figure 2: Test Setup

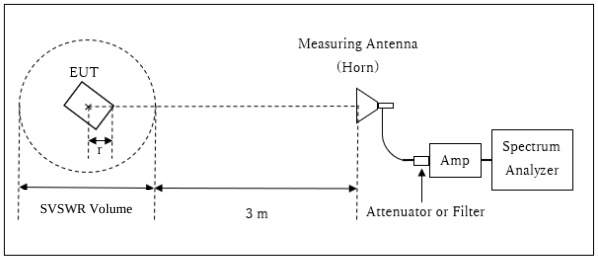
Below 1 GHz



× : Center of turn table

Test Distance: 3 m

1 GHz - 10 GHz

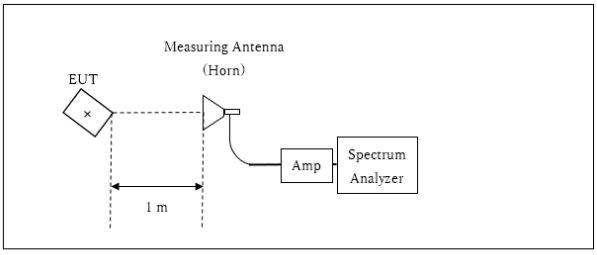


r : Radius of an outer periphery of EUT
× : Center of turn table

Distance Factor: 20 x log (3.80 m / 3.0 m) = 2.06 dB
* Test Distance: (3 + SVSWR Volume /2) - r = 3.80 m

SVSWR Volume : 2.0 m
(SVSWR Volume has been calibrated based on CISPR 16-1-4.)
r = 0.20 m

10 GHz - 40 GHz



× : Center of turn table

Distance Factor: 20 x log (1.0 m / 3.0 m) = -9.54 dB
*Test Distance: 1 m

The test was made on EUT at the normal use position.
The test results and limit are rounded off to one decimal place, so some differences might be observed.

Measurement range : 30 MHz - 40 GHz
Test data : APPENDIX
Test result : Pass

SECTION 6: 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
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: 160 MHz BW) (Method PM-G)
Maximum Power Spectral Density	Encompass the entire EBW	1 MHz or 100 kHz *2)	≥ 3 RBW	Auto	RMS Power Averaging (100 times)	Clear Write	Spectrum Analyzer
Conducted Spurious Emission*3) *4)	9 kHz – 150 kHz	200 Hz	620 Hz	Auto	Peak	Max Hold	Spectrum Analyzer
	150 kHz – 30 MHz	10 kHz	30 kHz				

* The test method was also referred to KDB 789033 D02 General UNII Test Procedures New Rules v02r01 "Guidelines for Compliance Testing of Unlicensed National Information Infrastructure (U-NII) Devices Part 15, Subpart E".

*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-5.850 GHz, but it is not possible with spectrum analyzer, so RBW Correction Factor (10 log(500 kHz / 100 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-150 kHz: RBW = 200 Hz, 150 kHz-30 MHz: RBW = 10 kHz)
*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

APPENDIX 1: Test data

99 % Occupied Bandwidth

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 26, 2021
Temperature / Humidity	24 deg. C / 41 % RH
Engineer	Shiro Kobayashi
Mode	Tx

11a

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5180	16370.0
5220	16374.0
5240	16375.0
5745	16368.0
5785	16370.0
5825	16386.0

11n-20 SISO

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5180	17519.0
5220	17511.0
5240	17514.0
5745	17500.0
5785	17508.0
5825	17502.0

11ac-20 SISO

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5180	17512.0
5220	17511.0
5240	17522.0
5745	17512.0
5785	17525.0
5825	17518.0

11n-40 SISO

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5190	36827.0
5230	36784.0
5755	36815.0
5795	36830.0

11ac-40 SISO

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5190	36928.0
5230	36919.0
5755	36929.0
5795	36937.0

11ac-80 SISO

Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
5210	74979.0
5775	74996.0

99 % Occupied Bandwidth

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 24, 2021
Temperature / Humidity	24 deg. C / 46 % RH
Engineer	Shiro Kobayashi
Mode	Tx

11n-20 MIMO

Antenna	Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
Chain 0	5180	17539.0
	5220	17523.0
	5240	17528.0
	5745	17537.0
	5785	17513.0
	5825	17534.0

11ac-20 MIMO

Antenna	Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
Chain 0	5180	17519.0
	5220	17526.0
	5240	17524.0
	5745	17517.0
	5785	17520.0
	5825	17520.0

11n-40 MIMO

Antenna	Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
Chain 0	5190	35948.0
	5230	36045.0
	5755	35987.0
	5795	36002.0

11ac-40 MIMO

Antenna	Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
Chain 0	5190	35965.0
	5230	35982.0
	5755	35965.0
	5795	35991.0

11ac-80 MIMO

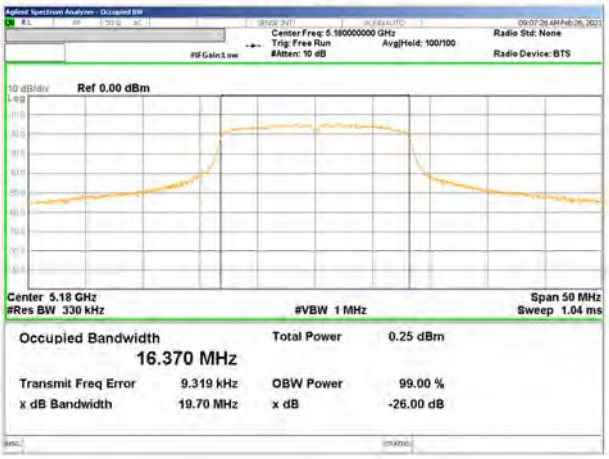
Antenna	Tested Frequency [MHz]	99 % Occupied Bandwidth [kHz]
Chain 0	5210	74975.0
	5775	75023.0

99 % Occupied Bandwidth

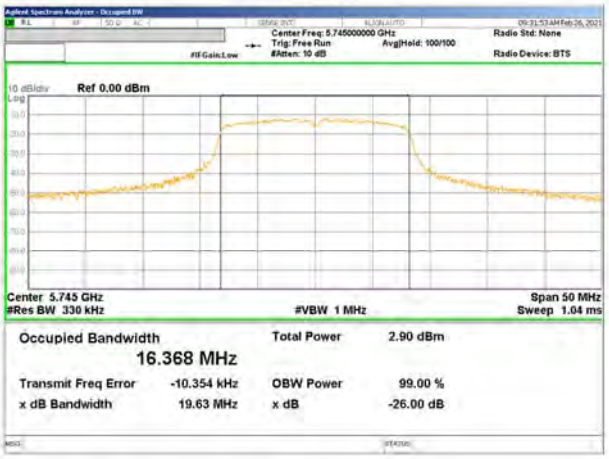
(Test model number: DNNS122)

11a

5180 MHz



5745 MHz

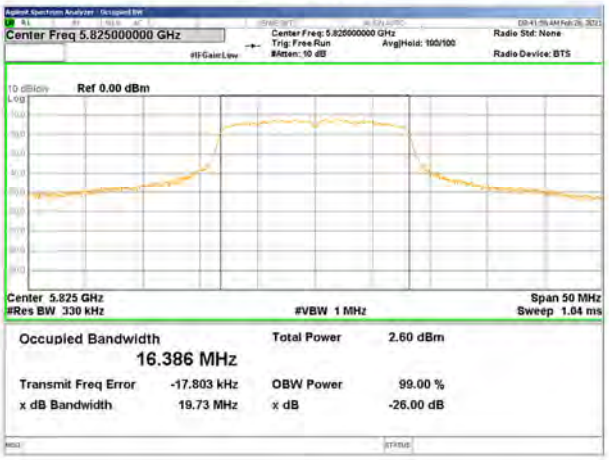


5220 MHz

5785 MHz

5240 MHz

5825 MHz

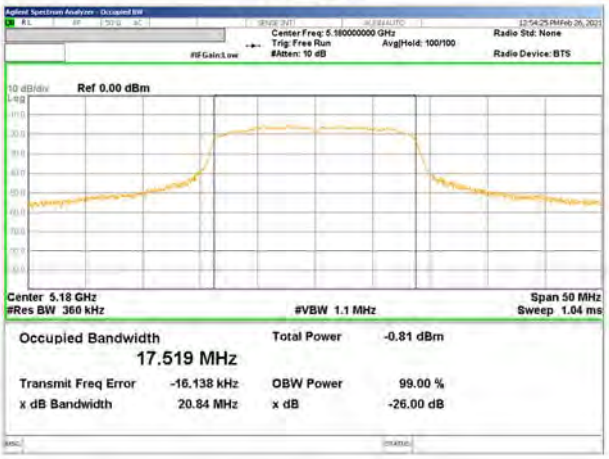


99 % Occupied Bandwidth

(Test model number: DNNS122)

11n-20 SISO

5180 MHz

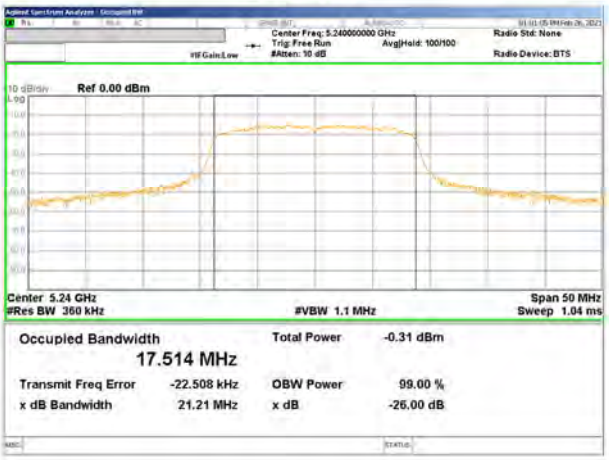


5745 MHz

5220 MHz

5785 MHz

5240 MHz



5825 MHz

99 % Occupied Bandwidth

(Test model number: DNNS122)

11ac-20 SISO

5180 MHz

5745 MHz

5220 MHz

5785 MHz

5240 MHz

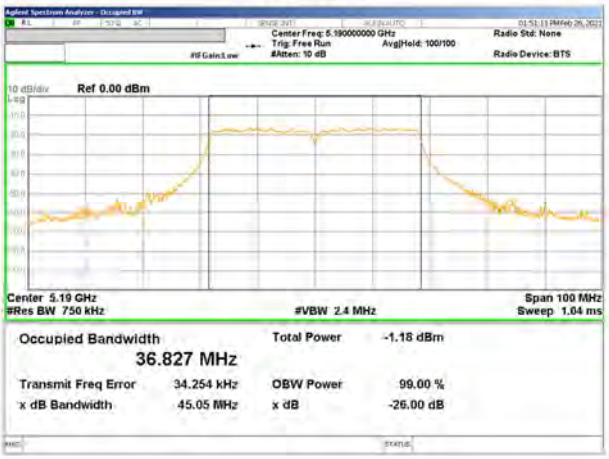
5825 MHz

99 % Occupied Bandwidth

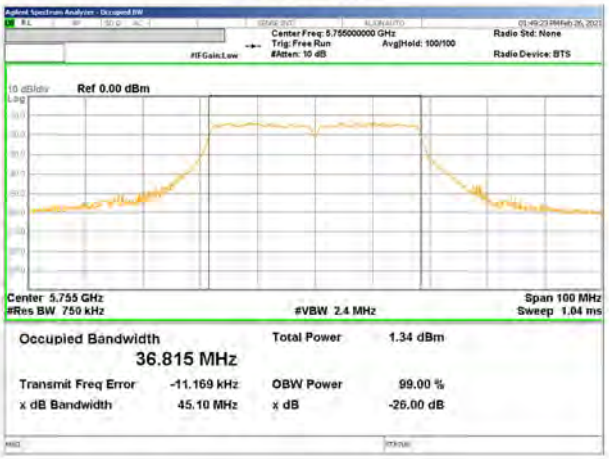
(Test model number: DNNS122)

11n-40 SISO

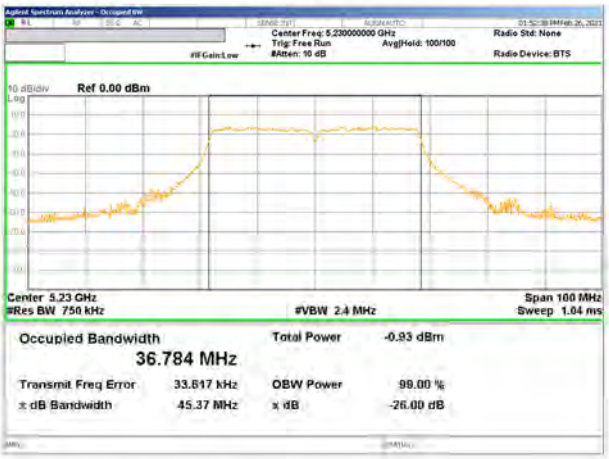
5190 MHz



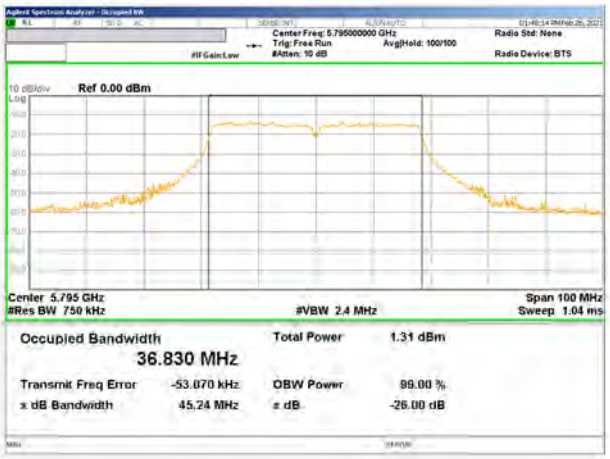
5755 MHz



5230 MHz



5795 MHz

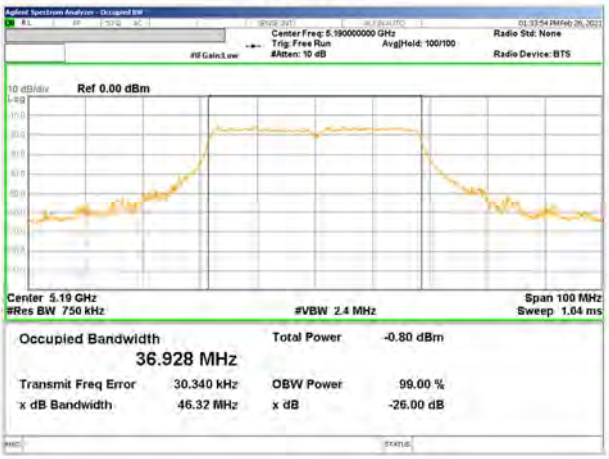


99 % Occupied Bandwidth

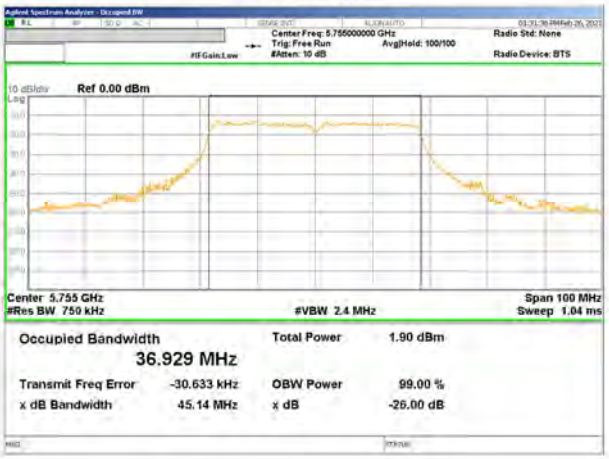
(Test model number: DNNS122)

11ac-40 SISO

5190 MHz

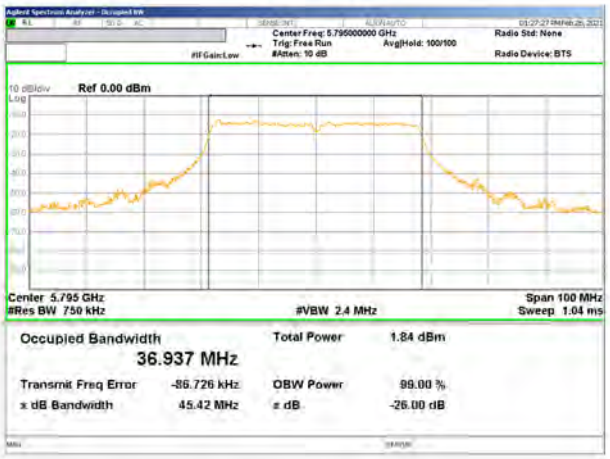


5755 MHz



5230 MHz

5795 MHz



99 % Occupied Bandwidth

(Test model number: DNNS122)

11ac-80 SISO

5210 MHz

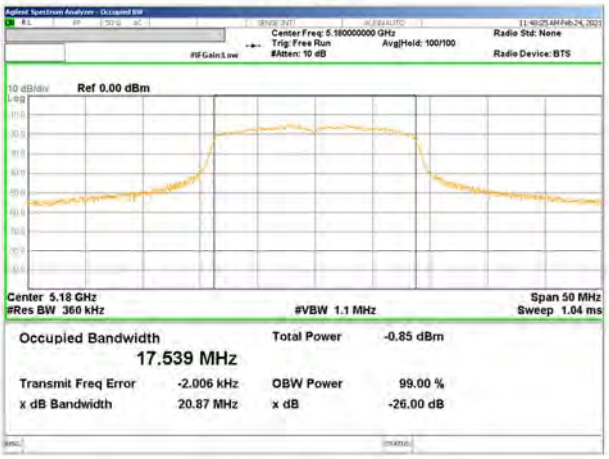
5775 MHz

99 % Occupied Bandwidth

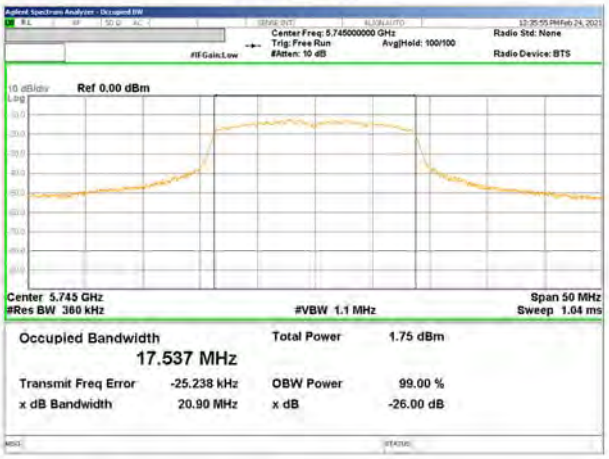
(Test model number: DNNS122)

11n-20 MIMO, Chain 0

5180 MHz



5745 MHz



5220 MHz

5785 MHz

5240 MHz

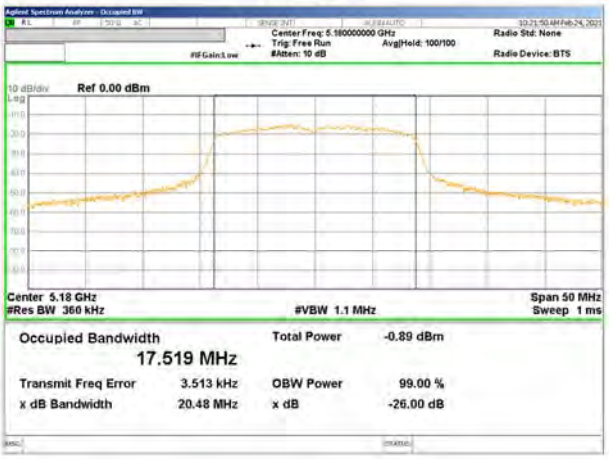
5825 MHz

99 % Occupied Bandwidth

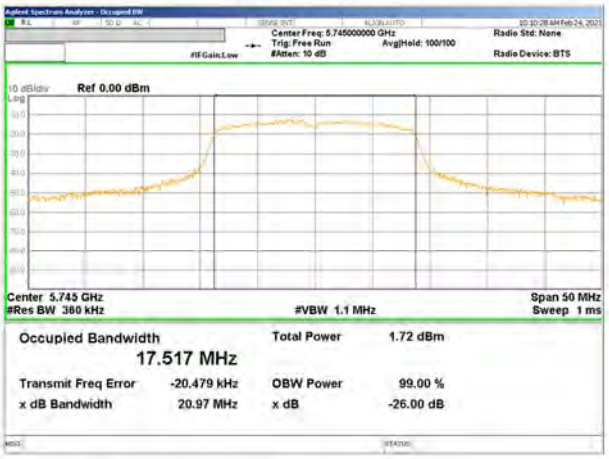
(Test model number: DNNS122)

11ac-20 MIMO, Chain 0

5180 MHz



5745 MHz



5220 MHz

5785 MHz

5240 MHz

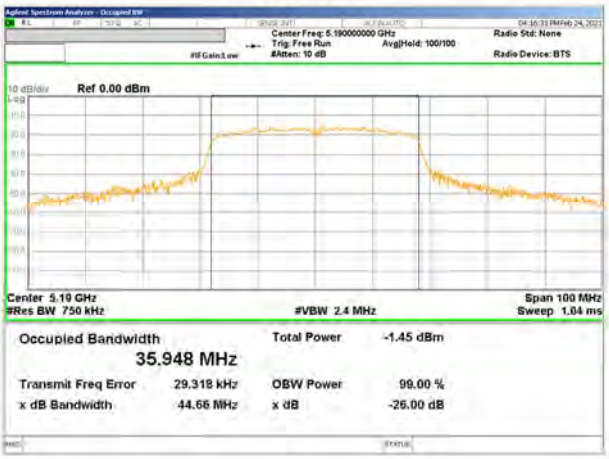
5825 MHz

99 % Occupied Bandwidth

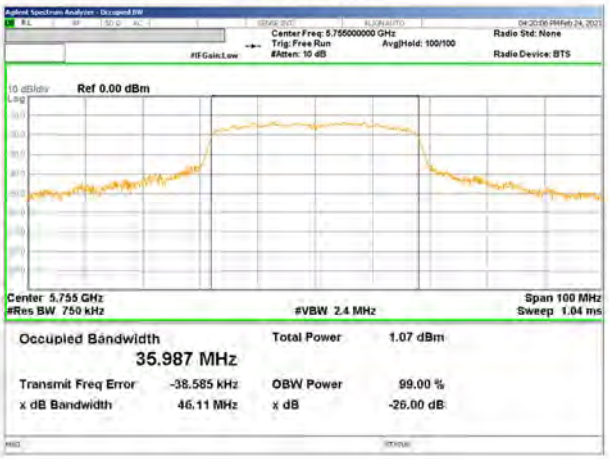
(Test model number: DNNS122)

11n-40 MIMO, Chain 0

5190 MHz



5755 MHz



5230 MHz

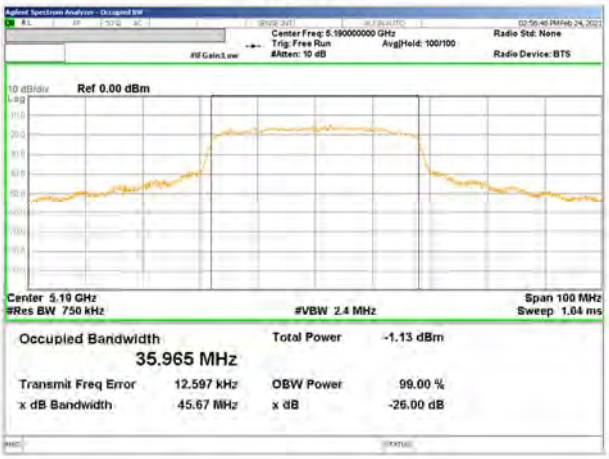
5795 MHz

99 % Occupied Bandwidth

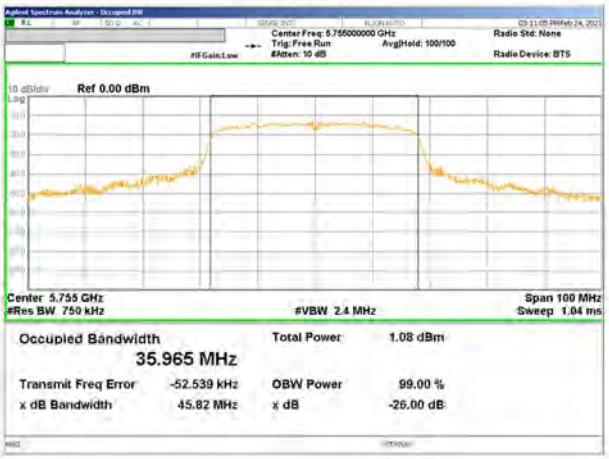
(Test model number: DNNS122)

11ac-40 MIMO, Chain 0

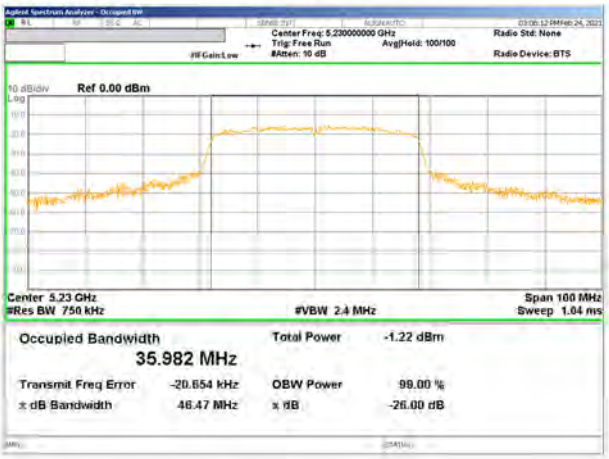
5190 MHz



5755 MHz



5230 MHz



5795 MHz

99 % Occupied Bandwidth

(Test model number: DNNS122)

11ac-80 MIMO, Chain 0

5210 MHz

5775 MHz

6 dB Bandwidth

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 26, 2021
Temperature / Humidity	24 deg. C / 41 % RH
Engineer	Shiro Kobayashi
Mode	Tx

11a

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	15.180	> 0.500
5785	15.180	> 0.500
5825	15.180	> 0.500

11n-20 SISO

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	15.180	> 0.500
5785	15.180	> 0.500
5825	15.180	> 0.500

11ac-20 SISO

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5745	15.180	> 0.500
5785	15.180	> 0.500
5825	15.180	> 0.500

11n-40 SISO

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5755	36.490	> 0.500
5795	36.480	> 0.500

11ac-40 SISO

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5755	36.470	> 0.500
5795	36.490	> 0.500

11ac-80 SISO

Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
5775	75.200	> 0.500

6 dB Bandwidth

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 24, 2021
Temperature / Humidity	24 deg. C / 46 % RH
Engineer	Shiro Kobayashi
Mode	Tx

11n-20 MIMO

Antenna	Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
Chain 0	5745	15.180	> 0.500
	5785	15.180	> 0.500
	5825	15.180	> 0.500

11ac-20 MIMO

Antenna	Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
Chain 0	5745	15.200	> 0.500
	5785	15.200	> 0.500
	5825	15.200	> 0.500

11n-40 MIMO

Antenna	Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
Chain 0	5755	35.180	> 0.500
	5795	35.180	> 0.500

11ac-40 MIMO

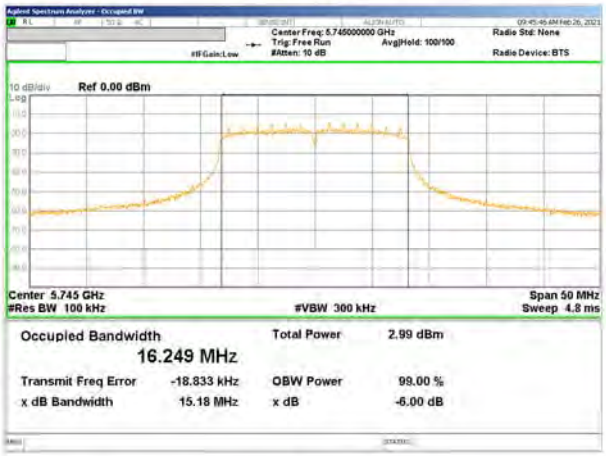
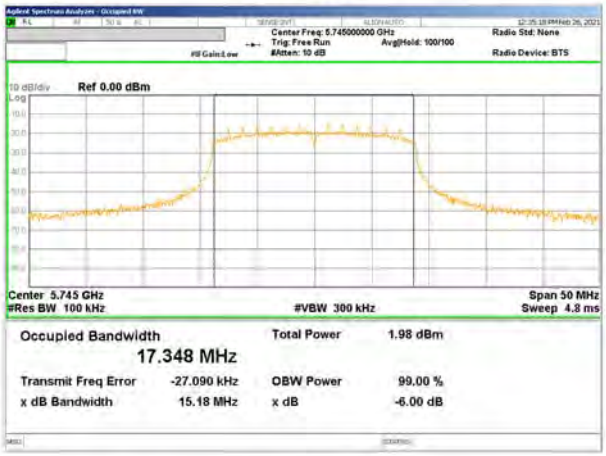
Antenna	Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
Chain 0	5755	35.180	> 0.500
	5795	35.180	> 0.500

11ac-80

Antenna	Tested Frequency [MHz]	6 dB Bandwidth [MHz]	Limit [MHz]
Chain 0	5775	75.180	> 0.500

6 dB Bandwidth

(Test model number: DNNS122)

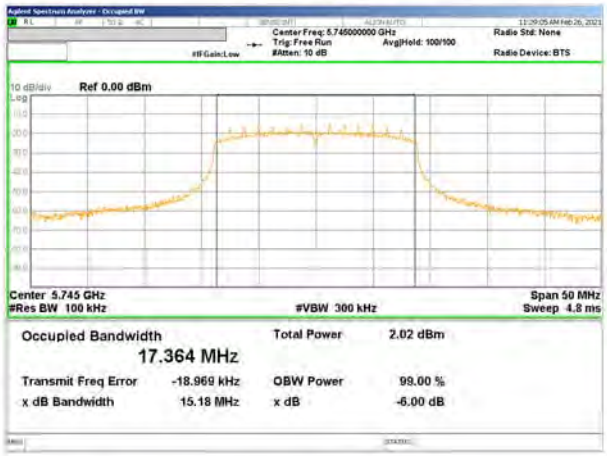
11a	11n-20 SISO
5745 MHz	5745 MHz
	
5785 MHz	5785 MHz
	
5825 MHz	5825 MHz
	

6 dB Bandwidth

(Test model number: DNNS122)

11ac-20 SISO

5745 MHz

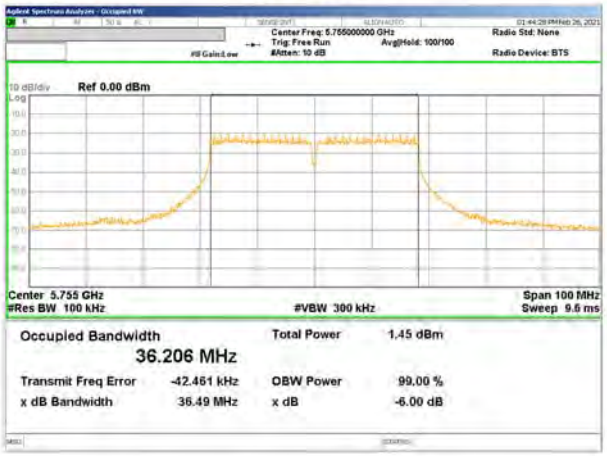


5785 MHz

5825 MHz

11n-40 SISO

5755 MHz



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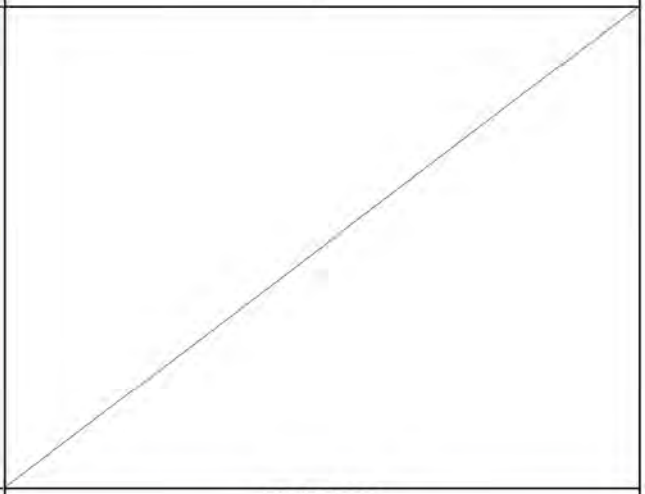
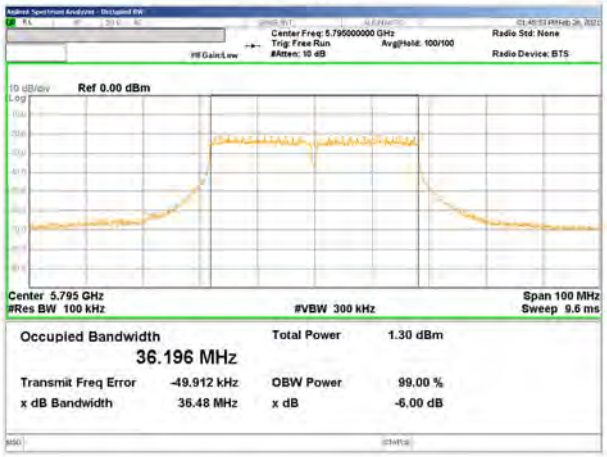


5795 MHz



6 dB Bandwidth

(Test model number: DNNS122)

11ac-40 SISO

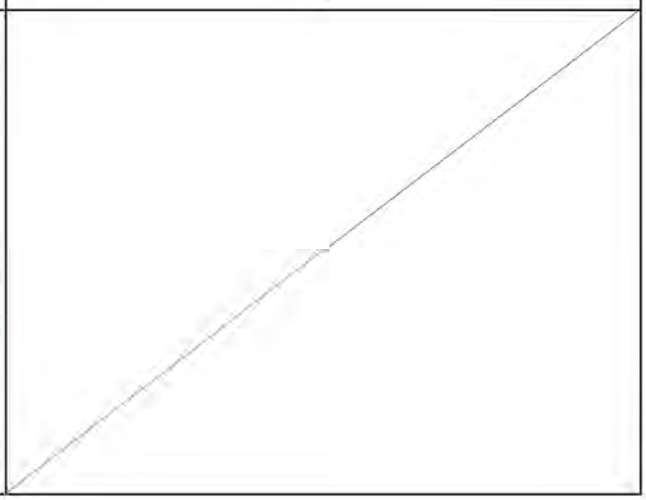
5755 MHz

11ac-80 SISO

5775 MHz

5795 MHz

-

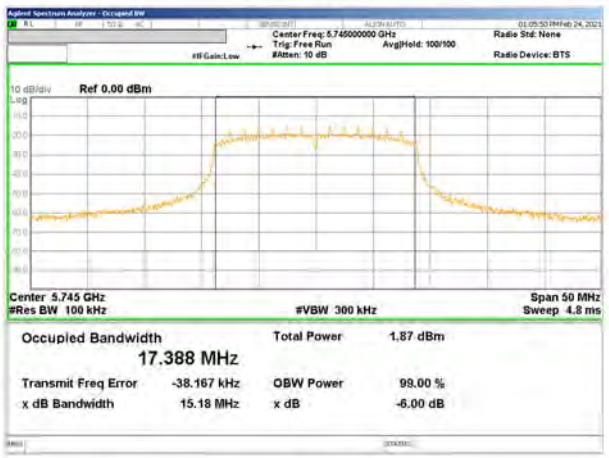


6 dB Bandwidth

(Test model number: DNNS122)

11n-20 MIMO, Chain 0

5745 MHz

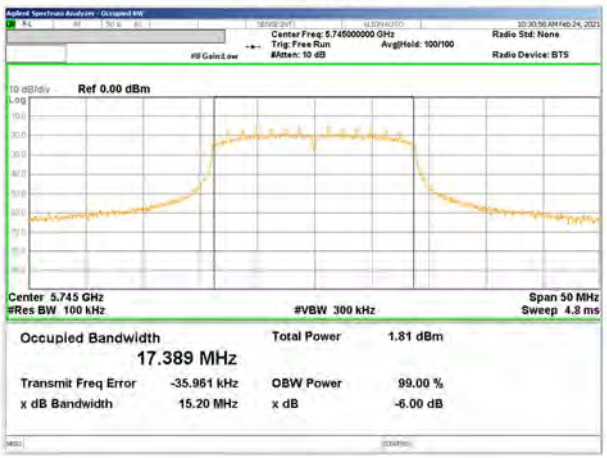


5785 MHz

5825 MHz

11ac-20 MIMO, Chain 0

5745 MHz



5785 MHz

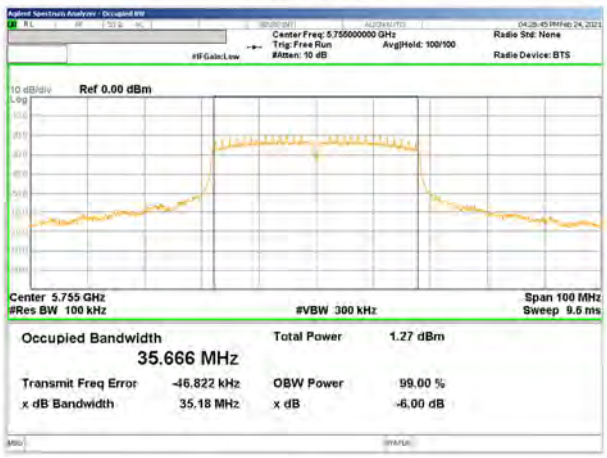
5825 MHz

6 dB Bandwidth

(Test model number: DNNS122)

11n-40 MIMO, Chain 0

5755 MHz



11ac-40 MIMO, Chain 0

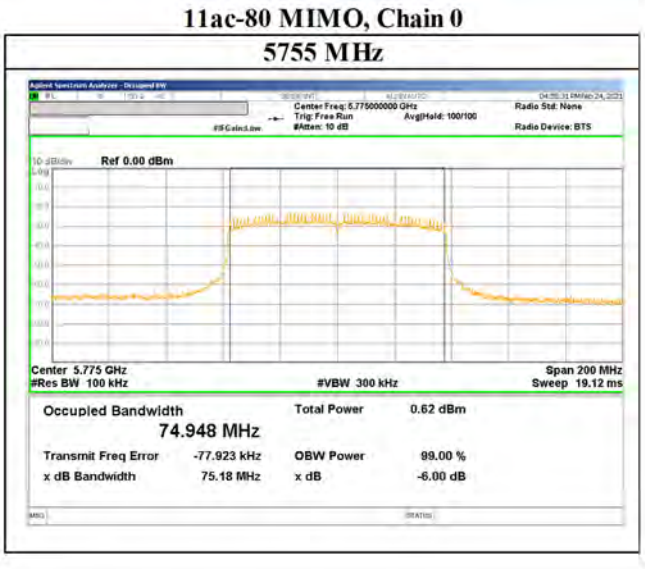
5755 MHz

5795 MHz

5795 MHz

6 dB Bandwidth

(Test model number: DNNS122)



Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C	
Test place	Shonan EMC Lab. No.5 Shielded Room	
Date	February 1, 2021	February 5, 2021
Temperature / Humidity	22 deg. C / 40 % RH	26 deg. C / 52 % RH
Engineer	Yosuke Murakami	Hiromasa Sato
Mode	Tx 11a	

11a Applied limit: 15.407, mobile and portable client device

Tested Frequency	Reading	Cable Loss	Atten. Loss	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-7.08	2.81	9.94	0.02	-	16.370	5.67	3.69	23.97	18.30	5.69	3.71	29.97	24.28
5220	-6.81	2.81	9.94	0.02	-	16.374	5.94	3.93	23.97	18.03	5.96	3.94	29.97	24.01
5240	-6.45	2.81	9.94	0.02	-	16.375	6.30	4.27	23.97	17.67	6.32	4.29	29.97	23.65
5745	-4.65	2.99	9.94	0.02	-	16.368	8.28	6.73	30.00	21.72	8.30	6.76	36.00	27.70
5785	-4.59	2.99	9.94	0.02	-	16.370	8.34	6.82	30.00	21.66	8.36	6.85	36.00	27.64
5825	-4.89	2.99	9.94	0.02	-	16.386	8.04	6.37	30.00	21.96	8.06	6.40	36.00	27.94

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C	
Test place	Shonan EMC Lab. No.5 Shielded Room	
Date	February 1, 2021	February 5, 2021
Temperature / Humidity	22 deg. C / 40 % RH	26 deg. C / 52 % RH
Engineer	Yosuke Murakami	Hiromasa Sato
Mode	Tx 11n-20 SISO	

11n-20 SISO Applied limit: 15.407, mobile and portable client device

Tested Frequency	Reading	Cable Loss	Atten. Loss	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-8.34	2.81	9.94	0.02	-	17.519	4.41	2.76	23.97	19.56	4.43	2.77	29.97	25.54
5220	-7.82	2.81	9.94	0.02	-	17.511	4.93	3.11	23.97	19.04	4.95	3.13	29.97	25.02
5240	-7.54	2.81	9.94	0.02	-	17.514	5.21	3.32	23.97	18.76	5.23	3.33	29.97	24.74
5745	-5.69	2.99	9.94	0.02	-	17.500	7.24	5.30	30.00	22.76	7.26	5.32	36.00	28.74
5785	-5.74	2.99	9.94	0.02	-	17.508	7.19	5.24	30.00	22.81	7.21	5.26	36.00	28.79
5825	-5.94	2.99	9.94	0.02	-	17.502	6.99	5.00	30.00	23.01	7.01	5.02	36.00	28.99

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C	
Test place	Shonan EMC Lab. No.5 Shielded Room	
Date	February 1, 2021	February 5, 2021
Temperature / Humidity	22 deg. C / 40 % RH	26 deg. C / 52 % RH
Engineer	Yosuke Murakami	Hiromasa Sato
Mode	Tx 11ac-20 SISO	

11ac-20 SISO

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Reading	Cable Loss	Atten. Loss	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-8.32	2.81	9.94	0.02	-	17.512	4.43	2.77	23.97	19.54	4.45	2.79	29.97	25.52
5220	-7.97	2.81	9.94	0.02	-	17.511	4.78	3.01	23.97	19.19	4.80	3.02	29.97	25.17
5240	-7.89	2.81	9.94	0.02	-	17.522	4.86	3.06	23.97	19.11	4.88	3.08	29.97	25.09
5745	-5.85	2.99	9.94	0.02	-	17.512	7.08	5.11	30.00	22.92	7.10	5.13	36.00	28.90
5785	-5.86	2.99	9.94	0.02	-	17.525	7.07	5.09	30.00	22.93	7.09	5.12	36.00	28.91
5825	-5.97	2.99	9.94	0.02	-	17.518	6.96	4.97	30.00	23.04	6.98	4.99	36.00	29.02

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C	
Test place	Shonan EMC Lab. No.5 Shielded Room	
Date	February 1, 2021	February 5, 2021
Temperature / Humidity	22 deg. C / 40 % RH	26 deg. C / 52 % RH
Engineer	Yosuke Murakami	Hiromasa Sato
Mode	Tx 11n-40 SISO	

11n-40 SISO

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Reading	Cable Loss	Atten. Loss	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5190	-9.20	2.81	9.94	0.02	-	36.827	3.55	2.26	23.97	20.42	3.57	2.28	29.97	26.40
5230	-8.78	2.81	9.94	0.02	-	36.784	3.97	2.49	23.97	20.00	3.99	2.51	29.97	25.98
5755	-6.65	2.99	9.94	0.02	-	36.815	6.28	4.25	30.00	23.72	6.30	4.27	36.00	29.70
5795	-6.66	2.99	9.94	0.02	-	36.830	6.27	4.24	30.00	23.73	6.29	4.26	36.00	29.71

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C	
Test place	Shonan EMC Lab. No.5 Shielded Room	
Date	February 1, 2021	February 5, 2021
Temperature / Humidity	22 deg. C / 40 % RH	26 deg. C / 52 % RH
Engineer	Yosuke Murakami	Hiromasa Sato
Mode	Tx 11ac-40 SISO	

11ac-40 SISO

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Reading	Cable Loss	Atten. Loss	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5190	-9.12	2.81	9.94	0.02	-	36.928	3.63	2.31	23.97	20.34	3.65	2.32	29.97	26.32
5230	-8.66	2.81	9.94	0.02	-	36.919	4.09	2.56	23.97	19.88	4.11	2.58	29.97	25.86
5755	-6.66	2.99	9.94	0.02	-	36.929	6.27	4.24	30.00	23.73	6.29	4.26	36.00	29.71
5795	-6.67	2.99	9.94	0.02	-	36.937	6.26	4.23	30.00	23.74	6.28	4.25	36.00	29.72

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C	
Test place	Shonan EMC Lab. No.5 Shielded Room	
Date	February 1, 2021	February 5, 2021
Temperature / Humidity	22 deg. C / 40 % RH	26 deg. C / 52 % RH
Engineer	Yosuke Murakami	Hiromasa Sato
Mode	Tx 11ac-80 SISO	

11ac-80 SISO Applied limit: 15.407, mobile and portable client device

Tested Frequency	Reading	Cable Loss	Atten. Loss	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5210	-9.90	2.81	9.94	0.02	-	74.979	2.85	1.93	23.97	21.12	2.87	1.94	29.97	27.10
5775	-7.61	2.99	9.94	0.02	-	74.996	5.32	3.40	30.00	24.68	5.34	3.42	36.00	30.66

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 19, 2021
Temperature / Humidity	22 deg. C / 42 % RH
Engineer	Toshinori Yamada
Mode	Tx 11n-20 MIMO

11n-20 MIMO
Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			Chain 0	Chain 1	Sum				Chain 0	Chain 1	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5180	-	17.539	2.71	2.79	5.50	7.40	23.97	16.57	2.72	0.83	3.55	5.51	29.97	24.46
5220	-	17.523	2.94	2.84	5.79	7.63	23.97	16.34	2.96	0.85	3.81	5.80	29.97	24.17
5240	-	17.528	3.14	2.85	5.99	7.78	23.97	16.19	3.16	0.85	4.00	6.03	29.97	23.94
5745	-	17.537	5.43	2.71	8.14	9.11	30.00	20.89	5.46	0.81	6.26	7.97	36.00	28.03
5785	-	17.513	5.13	2.89	8.02	9.04	30.00	20.96	5.15	0.86	6.01	7.79	36.00	28.21
5825	-	17.534	5.07	2.84	7.91	8.98	30.00	21.02	5.09	0.85	5.94	7.74	36.00	28.26

		Chain 0						**Chain 1**					
Tested Frequency	-	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.
[MHz]		[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5180	-	-8.42	2.81	9.94	0.02	4.33	4.35	-8.29	2.81	9.93	-5.26	4.45	-0.81
5220	-	-8.06	2.81	9.94	0.02	4.69	4.71	-8.20	2.81	9.93	-5.26	4.54	-0.72
5240	-	-7.78	2.81	9.94	0.02	4.97	4.99	-8.19	2.81	9.93	-5.26	4.55	-0.71
5745	-	-5.58	2.99	9.94	0.02	7.35	7.37	-8.59	2.99	9.93	-5.26	4.33	-0.93
5785	-	-5.83	2.99	9.94	0.02	7.10	7.12	-8.31	2.99	9.93	-5.26	4.61	-0.65
5825	-	-5.88	2.99	9.94	0.02	7.05	7.07	-8.38	2.99	9.93	-5.26	4.54	-0.72

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss
e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW
Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)
Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 19, 2021
Temperature / Humidity	22 deg. C / 42 % RH
Engineer	Toshinori Yamada
Mode	Tx 11ac-20 MIMO

11ac-20 MIMO
Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			Chain 0	Chain 1	Sum				Chain 0	Chain 1	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5180	-	17.519	2.72	2.79	5.52	7.42	23.97	16.55	2.74	0.83	3.57	5.52	29.97	24.45
5220	-	17.526	2.88	2.93	5.81	7.65	23.97	16.32	2.90	0.87	3.77	5.76	29.97	24.21
5240	-	17.524	3.16	2.89	6.05	7.81	23.97	16.16	3.17	0.86	4.03	6.05	29.97	23.92
5745	-	17.517	5.47	2.73	8.20	9.14	30.00	20.86	5.50	0.81	6.31	8.00	36.00	28.00
5785	-	17.520	5.14	2.90	8.04	9.05	30.00	20.95	5.16	0.86	6.03	7.80	36.00	28.20
5825	-	17.520	5.11	2.86	7.96	9.01	30.00	20.99	5.13	0.85	5.98	7.77	36.00	28.23

		Chain 0						**Chain 1**					
Tested Frequency	-	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.
[MHz]		[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5180	-	-8.40	2.81	9.94	0.02	4.35	4.37	-8.28	2.81	9.93	-5.26	4.46	-0.80
5220	-	-8.15	2.81	9.94	0.02	4.60	4.62	-8.07	2.81	9.93	-5.26	4.67	-0.59
5240	-	-7.76	2.81	9.94	0.02	4.99	5.01	-8.13	2.81	9.93	-5.26	4.61	-0.65
5745	-	-5.55	2.99	9.94	0.02	7.38	7.40	-8.56	2.99	9.93	-5.26	4.36	-0.90
5785	-	-5.82	2.99	9.94	0.02	7.11	7.13	-8.30	2.99	9.93	-5.26	4.62	-0.64
5825	-	-5.85	2.99	9.94	0.02	7.08	7.10	-8.36	2.99	9.93	-5.26	4.56	-0.70

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss
e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW
Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)
Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 19, 2021
Temperature / Humidity	22 deg. C / 42 % RH
Engineer	Toshinori Yamada
Mode	Tx 11n-40 MIMO

11n-40

Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			Chain 0	Chain 1	Sum				Chain 0	Chain 1	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5190	-	35.948	2.28	2.23	4.51	6.54	23.97	17.43	2.29	0.67	2.95	4.70	29.97	25.27
5230	-	36.045	2.53	2.29	4.82	6.83	23.97	17.14	2.54	0.68	3.22	5.08	29.97	24.89
5755	-	35.987	4.32	2.25	6.57	8.18	30.00	21.82	4.34	0.67	5.01	7.00	36.00	29.00
5795	-	36.002	4.03	2.28	6.30	7.99	30.00	22.01	4.05	0.68	4.72	6.74	36.00	29.26

		Chain 0						**Chain 1**					
Tested Frequency	-	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	-	-9.18	2.81	9.94	0.02	3.57	3.59	-9.25	2.81	9.93	-5.26	3.49	-1.77
5230	-	-8.72	2.81	9.94	0.02	4.03	4.05	-9.14	2.81	9.93	-5.26	3.60	-1.66
5755	-	-6.58	2.99	9.94	0.02	6.35	6.37	-9.39	2.99	9.93	-5.26	3.53	-1.73
5795	-	-6.88	2.99	9.94	0.02	6.05	6.07	-9.35	2.99	9.93	-5.26	3.57	-1.69

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 19, 2021
Temperature / Humidity	22 deg. C / 42 % RH
Engineer	Toshinori Yamada
Mode	Tx 11ac-40 MIMO

11ac-40

Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			Chain 0	Chain 1	Sum				Chain 0	Chain 1	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5190	-	35.965	2.25	2.28	4.53	6.57	23.97	17.40	2.26	0.68	2.94	4.69	29.97	25.28
5230	-	35.982	2.53	2.30	4.83	6.84	23.97	17.13	2.54	0.69	3.23	5.09	29.97	24.88
5755	-	35.965	4.35	2.25	6.60	8.20	30.00	21.80	4.37	0.67	5.04	7.02	36.00	28.98
5795	-	35.991	4.06	2.29	6.34	8.02	30.00	21.98	4.07	0.68	4.75	6.77	36.00	29.23

		Chain 0						**Chain 1**					
Tested Frequency	-	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.	Reading	Cable Loss	Antenna Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.
[MHz]		[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	-	-9.22	2.81	9.94	0.02	3.53	3.55	-9.16	2.81	9.93	-5.26	3.58	-1.68
5230	-	-8.72	2.81	9.94	0.02	4.03	4.05	-9.12	2.81	9.93	-5.26	3.62	-1.64
5755	-	-6.55	2.99	9.94	0.02	6.38	6.40	-9.39	2.99	9.93	-5.26	3.53	-1.73
5795	-	-6.85	2.99	9.94	0.02	6.08	6.10	-9.33	2.99	9.93	-5.26	3.59	-1.67

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 19, 2021
Temperature / Humidity	22 deg. C / 42 % RH
Engineer	Toshinori Yamada
Mode	Tx 11ac-80 MIMO

11ac-80

Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			Chain 0	Chain 1	Sum				Chain 0	Chain 1	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5210	-	74.975	1.95	1.92	3.87	5.88	23.97	18.09	1.96	0.57	2.53	4.04	29.97	25.93
5775	-	75.023	3.56	1.94	5.49	7.40	30.00	22.60	3.57	0.58	4.15	6.18	36.00	29.82

		Chain 0						**Chain 1**					
Tested Frequency	-	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Reading	Cable Loss	Antenna Loss	Antenna Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5210	-	-9.84	2.81	9.94	0.02	2.91	2.93	-9.91	2.81	9.93	-5.26	2.83	-2.43
5775	-	-7.42	2.99	9.94	0.02	5.51	5.53	-10.05	2.99	9.93	-5.26	2.87	-2.39

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 1, 2021
Temperature / Humidity	22 deg. C / 40 % RH
Engineer	Yosuke Murakami
Mode	Tx 11a

5180 MHz

Rate [Mbps]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Conducted power Result [dBm]	Remarks
6	-7.16	2.81	9.94	5.59	-
9	-7.24	2.81	9.94	5.51	-
12	-7.21	2.81	9.94	5.54	-
18	-7.08	2.81	9.94	5.67	*
24	-7.52	2.81	9.94	5.23	-
36	-7.50	2.81	9.94	5.25	-
48	-7.40	2.81	9.94	5.35	-
54	-7.40	2.81	9.94	5.35	-

* Worst rate

Sample Calculation:

Burst power = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 1, 2021
Temperature / Humidity	22 deg. C / 40 % RH
Engineer	Yosuke Murakami
Mode	Tx 11n-20 SISO

5180 MHz

Rate [MCS]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Conducted power Result [dBm]	Remarks
0	-8.44	2.81	9.94	4.31	-
1	-8.52	2.81	9.94	4.23	-
2	-8.34	2.81	9.94	4.41	*
3	-8.59	2.81	9.94	4.16	-
4	-8.44	2.81	9.94	4.31	-
5	-8.39	2.81	9.94	4.36	-
6	-8.38	2.81	9.94	4.37	-
7	-8.43	2.81	9.94	4.32	-

* Worst rate

Sample Calculation:

Burst power = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 1, 2021
Temperature / Humidity	22 deg. C / 40 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ac-20 SISO

5180 MHz

Rate [MCS]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Conducted power Result [dBm]	Remarks
0	-8.47	2.81	9.94	4.28	-
1	-8.54	2.81	9.94	4.21	-
2	-8.32	2.81	9.94	4.43	*
3	-8.49	2.81	9.94	4.26	-
4	-8.40	2.81	9.94	4.35	-
5	-8.39	2.81	9.94	4.36	-
6	-8.35	2.81	9.94	4.40	-
7	-8.37	2.81	9.94	4.38	-
8	-9.26	2.81	9.94	3.49	-

* Worst rate

Sample Calculation:

Burst power = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 1, 2021
Temperature / Humidity	22 deg. C / 40 % RH
Engineer	Yosuke Murakami
Mode	Tx 11n-40 SISO

5190 MHz

Rate [MCS]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Conducted power Result [dBm]	Remarks
0	-9.31	2.81	9.94	3.44	-
1	-9.22	2.81	9.94	3.53	-
2	-9.25	2.81	9.94	3.50	-
3	-9.34	2.81	9.94	3.41	-
4	-9.20	2.81	9.94	3.55	*
5	-9.36	2.81	9.94	3.39	-
6	-9.22	2.81	9.94	3.53	-
7	-9.24	2.81	9.94	3.51	-

* Worst rate

Sample Calculation:

Burst power = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 1, 2021
Temperature / Humidity	22 deg. C / 40 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ac-40 SISO

5190 MHz

Rate [MCS]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Conducted power Result [dBm]	Remarks
0	-9.37	2.81	9.94	3.38	-
1	-9.25	2.81	9.94	3.50	-
2	-9.22	2.81	9.94	3.53	-
3	-9.34	2.81	9.94	3.41	-
4	-9.23	2.81	9.94	3.52	-
5	-9.13	2.81	9.94	3.62	-
6	-9.12	2.81	9.94	3.63	*
7	-9.21	2.81	9.94	3.54	-
8	-11.45	2.81	9.94	1.30	-
9	-11.49	2.81	9.94	1.26	-

* Worst rate

Sample Calculation:

Burst power = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 1, 2021
Temperature / Humidity	22 deg. C / 40 % RH
Engineer	Yosuke Murakami
Mode	Tx 11ac-80 SISO

5210 MHz

Rate [MCS]	Reading [dBm]	Cable Loss [dB]	Atten. Loss [dB]	Conducted power Result [dBm]	Remarks
0	-10.18	2.81	9.94	2.57	-
1	-9.94	2.81	9.94	2.81	-
2	-9.90	2.81	9.94	2.85	*
3	-10.12	2.81	9.94	2.63	-
4	-10.13	2.81	9.94	2.62	-
5	-10.02	2.81	9.94	2.73	-
6	-9.99	2.81	9.94	2.76	-
7	-9.98	2.81	9.94	2.77	-
8	-12.23	2.81	9.94	0.52	-
9	-12.20	2.81	9.94	0.55	-

* Worst rate

Sample Calculation:

Burst power = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 19, 2021
Temperature / Humidity	22 deg. C / 42 % RH
Engineer	Toshinori Yamada
Mode	Tx 11n-20 MIMO

5180 MHz

Rate	Conducted power				Remarks
	Antenna			Result	
	Chain 0	Chain 1	Sum		
[MCS]	[mW]	[mW]	[mW]	[dBm]	
8	2.56	2.74	5.31	7.25	-
9	2.69	2.78	5.47	7.38	-
10	2.71	2.79	5.50	7.40	*
11	2.64	2.76	5.40	7.32	-
12	2.62	2.66	5.28	7.23	-
13	2.51	2.71	5.22	7.18	-
14	2.58	2.72	5.30	7.25	-
15	2.61	2.74	5.35	7.28	-

		Chain 0				**Chain 1**			
Rate	-	Power Meter Reading	Cable Loss	Atten. Loss	Result Cond. Power	Power Meter Reading	Cable Loss	Atten. Loss	Result Cond. Power
[MCS]		[dBm]	[dB]	[dB]	[dBm]	[dBm]	[dB]	[dB]	[dBm]
8	-	-8.66	2.81	9.94	4.09	-8.36	2.81	9.93	4.38
9	-	-8.46	2.81	9.94	4.29	-8.30	2.81	9.93	4.44
10	-	-8.42	2.81	9.94	4.33	-8.29	2.81	9.93	4.45
11	-	-8.54	2.81	9.94	4.21	-8.33	2.81	9.93	4.41
12	-	-8.57	2.81	9.94	4.18	-8.49	2.81	9.93	4.25
13	-	-8.75	2.81	9.94	4.00	-8.41	2.81	9.93	4.33
14	-	-8.63	2.81	9.94	4.12	-8.39	2.81	9.93	4.35
15	-	-8.58	2.81	9.94	4.17	-8.37	2.81	9.93	4.37

* Worst rate

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 19, 2021
Temperature / Humidity	22 deg. C / 42 % RH
Engineer	Toshinori Yamada
Mode	Tx 11ac-20 MIMO

5180 MHz

Rate	Conducted power				Remarks
	Antenna			Result	
	Cnain 0	Chain 1	Sum		
[Mbps]	[mW]	[mW]	[mW]	[dBm]	
0	2.60	2.76	5.36	7.29	-
1	2.65	2.74	5.39	7.32	-
2	2.72	2.79	5.52	7.42	*
3	2.56	2.75	5.32	7.26	-
4	2.56	2.69	5.26	7.21	-
5	2.55	2.77	5.33	7.26	-
6	2.57	2.75	5.32	7.26	-
7	2.61	2.75	5.36	7.29	-
8	2.09	2.23	4.32	6.36	-

		Cnain 0				**Chain 1**			
Rate	-	Power Meter Reading	Cable Loss	Atten. Loss	Result Cond. Power	Power Meter Reading	Cable Loss	Atten. Loss	Result Cond. Power
[Mbps]	[dB]	[dBm]	[dB]	[dB]	[dBm]	[dBm]	[dB]	[dB]	[dBm]
0	-	-8.60	2.81	9.94	4.15	-8.33	2.81	9.93	4.41
1	-	-8.51	2.81	9.94	4.24	-8.37	2.81	9.93	4.37
2	-	-8.40	2.81	9.94	4.35	-8.28	2.81	9.93	4.46
3	-	-8.66	2.81	9.94	4.09	-8.34	2.81	9.93	4.40
4	-	-8.66	2.81	9.94	4.09	-8.44	2.81	9.93	4.30
5	-	-8.68	2.81	9.94	4.07	-8.31	2.81	9.93	4.43
6	-	-8.65	2.81	9.94	4.10	-8.35	2.81	9.93	4.39
7	-	-8.59	2.81	9.94	4.16	-8.34	2.81	9.93	4.40
8	-	-9.54	2.81	9.94	3.21	-9.26	2.81	9.93	3.48

* Worst rate

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 19, 2021
Temperature / Humidity	22 deg. C / 42 % RH
Engineer	Toshinori Yamada
Mode	Tx 11n-40 MIMO

5190 MHz

Rate	Conducted power			Result	Remarks
	Antenna				
	Chain 0	Chain 1	Sum		
[MCS]	[mW]	[mW]	[mW]	[dBm]	
8	2.22	2.21	4.44	6.47	-
9	2.26	2.21	4.47	6.51	-
10	2.28	2.23	4.51	6.54	*
11	2.17	2.16	4.33	6.36	-
12	2.15	2.21	4.36	6.40	-
13	2.18	2.22	4.40	6.44	-
14	2.17	2.21	4.38	6.42	-
15	2.18	2.21	4.39	6.42	-

		Chain 0				**Chain 1**			
Rate	-	Power Meter Reading	Cable Loss	Atten. Loss	Result Cond. Power	Power Meter Reading	Cable Loss	Atten. Loss	Result Cond. Power
[MCS]		[dBm]	[dB]	[dB]	[dBm]	[dBm]	[dB]	[dB]	[dBm]
8	-	-9.28	2.81	9.94	3.47	-9.29	2.81	9.93	3.45
9	-	-9.20	2.81	9.94	3.55	-9.30	2.81	9.93	3.44
10	-	-9.18	2.81	9.94	3.57	-9.25	2.81	9.93	3.49
11	-	-9.39	2.81	9.94	3.36	-9.40	2.81	9.93	3.34
12	-	-9.43	2.81	9.94	3.32	-9.29	2.81	9.93	3.45
13	-	-9.36	2.81	9.94	3.39	-9.28	2.81	9.93	3.46
14	-	-9.39	2.81	9.94	3.36	-9.29	2.81	9.93	3.45
15	-	-9.37	2.81	9.94	3.38	-9.30	2.81	9.93	3.44

* Worst rate

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 19, 2021
Temperature / Humidity	22 deg. C / 42 % RH
Engineer	Toshinori Yamada
Mode	Tx 11ac-40 MIMO

5190 MHz

Rate	Conducted power				Remarks
	Antenna			Result	
	Chain 0	Chain 1	Sum		
[MCS]	[mW]	[mW]	[mW]	[dBm]	
0	2.14	2.25	4.39	6.43	-
1	2.18	2.26	4.44	6.48	-
2	2.25	2.28	4.53	6.57	*
3	2.20	2.23	4.43	6.46	-
4	2.09	2.20	4.30	6.33	-
5	2.18	2.24	4.42	6.46	-
6	2.19	2.25	4.44	6.48	-
7	2.17	2.24	4.42	6.45	-
8	1.30	1.46	2.76	4.41	-
9	1.30	1.43	2.73	4.37	-

		Chain 0				**Chain 1**			
Rate	-	Power Meter Reading	Cable Loss	Atten. Loss	Result Cond. Power	Power Meter Reading	Cable Loss	Atten. Loss	Result Cond. Power
[MCS]		[dBm]	[dB]	[dB]	[dBm]	[dBm]	[dB]	[dB]	[dBm]
0	-	-9.45	2.81	9.94	3.30	-9.21	2.81	9.93	3.53
1	-	-9.37	2.81	9.94	3.38	-9.19	2.81	9.93	3.55
2	-	-9.22	2.81	9.94	3.53	-9.16	2.81	9.93	3.58
3	-	-9.33	2.81	9.94	3.42	-9.26	2.81	9.93	3.48
4	-	-9.54	2.81	9.94	3.21	-9.31	2.81	9.93	3.43
5	-	-9.36	2.81	9.94	3.39	-9.24	2.81	9.93	3.50
6	-	-9.35	2.81	9.94	3.40	-9.21	2.81	9.93	3.53
7	-	-9.38	2.81	9.94	3.37	-9.23	2.81	9.93	3.51
8	-	-11.61	2.81	9.94	1.14	-11.10	2.81	9.93	1.64
9	-	-11.61	2.81	9.94	1.14	-11.18	2.81	9.93	1.56

* Worst rate

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Maximum Conducted Output Power

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 19, 2021
Temperature / Humidity	22 deg. C / 42 % RH
Engineer	Toshinori Yamada
Mode	Tx 11ac-80 MIMO

5210 MHz

Rate	Conducted power				Remarks
	Antenna			Result	
	Chain 0	Chain 1	Sum		
[MCS]	[mW]	[mW]	[mW]	[dBm]	
0	1.89	1.90	3.79	5.79	-
1	1.89	1.90	3.79	5.79	-
2	1.95	1.92	3.87	5.88	*
3	1.80	1.81	3.61	5.58	-
4	1.84	1.83	3.66	5.64	-
5	1.85	1.86	3.71	5.69	-
6	1.82	1.86	3.68	5.66	-
7	1.85	1.85	3.70	5.69	-
8	1.11	1.18	2.29	3.59	-
9	1.10	1.19	2.30	3.61	-

		Chain 0				**Chain 1**			
Rate	-	Power Meter Reading	Cable Loss	Atten. Loss	Result Cond. Power	Power Meter Reading	Cable Loss	Atten. Loss	Result Cond. Power
[MCS]		[dBm]	[dB]	[dB]	[dBm]	[dBm]	[dB]	[dB]	[dBm]
0	-	-9.98	2.81	9.94	2.77	-9.95	2.81	9.93	2.79
1	-	-9.98	2.81	9.94	2.77	-9.96	2.81	9.93	2.78
2	-	-9.84	2.81	9.94	2.91	-9.91	2.81	9.93	2.83
3	-	-10.19	2.81	9.94	2.56	-10.17	2.81	9.93	2.57
4	-	-10.11	2.81	9.94	2.64	-10.12	2.81	9.93	2.62
5	-	-10.09	2.81	9.94	2.66	-10.04	2.81	9.93	2.70
6	-	-10.15	2.81	9.94	2.60	-10.04	2.81	9.93	2.70
7	-	-10.08	2.81	9.94	2.67	-10.06	2.81	9.93	2.68
8	-	-12.30	2.81	9.94	0.45	-12.03	2.81	9.93	0.71
9	-	-12.33	2.81	9.94	0.42	-11.97	2.81	9.93	0.77

* Worst rate

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

Maximum Conducted Output Power(Spot-check test)

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.3 Shielded Room
Date	August 13, 2021
Temperature / Humidity	23 deg. C / 55 % RH
Engineer	Takahiro Kawakami
Mode	Tx 11a

11a Applied limit: 15.407, mobile and portable client device

Tested Frequency	Reading	Cable Loss	Atten. Loss	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-7.93	3.69	10.09	0.02	-	16.370	5.85	3.85	23.97	18.12	5.87	3.86	29.97	24.10
5220	-7.57	3.70	10.09	0.02	-	16.374	6.22	4.19	23.97	17.75	6.24	4.21	29.97	23.73
5240	-7.37	3.70	10.09	0.02	-	16.375	6.42	4.39	23.97	17.55	6.44	4.41	29.97	23.53
5745	-5.84	3.92	10.11	0.02	-	16.368	8.19	6.59	30.00	21.81	8.21	6.62	36.00	27.79
5785	-6.01	3.93	10.11	0.02	-	16.370	8.03	6.35	30.00	21.97	8.05	6.38	36.00	27.95
5825	-6.30	3.94	10.11	0.02	-	16.386	7.75	5.96	30.00	22.25	7.77	5.98	36.00	28.23

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power(Spot-check test)

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.3 Shielded Room
Date	August 13, 2021
Temperature / Humidity	23 deg. C / 55 % RH
Engineer	Takahiro Kawakami
Mode	Tx 11n-20 SISO

11n-20 SISO

Applied limit: 15.407, mobile and portable client device

Tested Frequency	Reading	Cable Loss	Atten. Loss	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-9.51	3.69	10.09	0.02	-	17.519	4.27	2.67	23.97	19.70	4.29	2.69	29.97	25.68
5220	-9.07	3.70	10.09	0.02	-	17.511	4.72	2.96	23.97	19.25	4.74	2.98	29.97	25.23
5240	-8.76	3.70	10.09	0.02	-	17.514	5.03	3.18	23.97	18.94	5.05	3.20	29.97	24.92
5745	-7.25	3.92	10.11	0.02	-	17.500	6.78	4.76	30.00	23.22	6.80	4.79	36.00	29.20
5785	-7.21	3.93	10.11	0.02	-	17.508	6.83	4.82	30.00	23.17	6.85	4.84	36.00	29.15
5825	-7.55	3.94	10.11	0.02	-	17.502	6.50	4.47	30.00	23.50	6.52	4.49	36.00	29.48

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power(Spot-check test)

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.3 Shielded Room
Date	August 13, 2021
Temperature / Humidity	23 deg. C / 55 % RH
Engineer	Takahiro Kawakami
Mode	Tx 11ac-20 SISO

11ac-20 SISO Applied limit: 15.407, mobile and portable client device

Tested Frequency	Reading	Cable Loss	Atten. Loss	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5180	-9.50	3.69	10.09	0.02	-	17.512	4.28	2.68	23.97	19.69	4.30	2.69	29.97	25.67
5220	-9.06	3.70	10.09	0.02	-	17.511	4.73	2.97	23.97	19.24	4.75	2.99	29.97	25.22
5240	-8.77	3.70	10.09	0.02	-	17.522	5.02	3.18	23.97	18.95	5.04	3.19	29.97	24.93
5745	-7.45	3.92	10.11	0.02	-	17.512	6.58	4.55	30.00	23.42	6.60	4.57	36.00	29.40
5785	-7.42	3.93	10.11	0.02	-	17.525	6.62	4.59	30.00	23.38	6.64	4.61	36.00	29.36
5825	-7.59	3.94	10.11	0.02	-	17.518	6.46	4.43	30.00	23.54	6.48	4.45	36.00	29.52

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power(Spot-check test)

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.3 Shielded Room
Date	August 13, 2021
Temperature / Humidity	23 deg. C / 55 % RH
Engineer	Takahiro Kawakami
Mode	Tx 11n-40 SISO

11n-40 SISO Applied limit: 15.407, mobile and portable client device

Tested Frequency	Reading	Cable Loss	Atten. Loss	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5190	-10.53	3.69	10.09	0.02	-	36.827	3.25	2.11	23.97	20.72	3.27	2.12	29.97	26.70
5230	-10.01	3.70	10.09	0.02	-	36.784	3.78	2.39	23.97	20.19	3.80	2.40	29.97	26.17
5755	-8.21	3.92	10.11	0.02	-	36.815	5.82	3.82	30.00	24.18	5.84	3.84	36.00	30.16
5795	-8.21	3.93	10.11	0.02	-	36.830	5.83	3.83	30.00	24.17	5.85	3.85	36.00	30.15

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power(Spot-check test)

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.3 Shielded Room
Date	August 13, 2021
Temperature / Humidity	23 deg. C / 55 % RH
Engineer	Takahiro Kawakami
Mode	Tx 11ac-40 SISO

11ac-40 SISO Applied limit: 15.407, mobile and portable client device

Tested Frequency	Reading	Cable Loss	Atten. Loss	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5190	-10.59	3.69	10.09	0.02	-	36.928	3.19	2.08	23.97	20.78	3.21	2.09	29.97	26.76
5230	-10.02	3.70	10.09	0.02	-	36.919	3.77	2.38	23.97	20.20	3.79	2.39	29.97	26.18
5755	-8.23	3.92	10.11	0.02	-	36.929	5.80	3.80	30.00	24.20	5.82	3.82	36.00	30.18
5795	-8.20	3.93	10.11	0.02	-	36.937	5.84	3.84	30.00	24.16	5.86	3.85	36.00	30.14

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power(Spot-check test)

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.3 Shielded Room
Date	August 13, 2021
Temperature / Humidity	23 deg. C / 55 % RH
Engineer	Takahiro Kawakami
Mode	Tx 11ac-80 SISO

11ac-80 SISO Applied limit: 15.407, mobile and portable client device

Tested Frequency	Reading	Cable Loss	Atten. Loss	Antenna Gain	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted Power Result		Limit	Margin	e.i.r.p. Result		Limit	Margin
[MHz]	[dBm]	[dB]	[dB]	[dBi]	[MHz]	[MHz]	[dBm]	[mW]	[dBm]	[dB]	[dBm]	[mW]	[dBm]	[dB]
5210	-10.95	3.70	10.09	0.02	-	74.979	2.84	1.92	23.97	21.13	2.86	1.93	29.97	27.11
5775	-9.21	3.93	10.11	0.02	-	74.996	4.83	3.04	30.00	25.17	4.85	3.05	36.00	31.15

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power(Spot-check test)

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.3 Shielded Room
Date	August 13, 2021
Temperature / Humidity	23 deg. C / 55 % RH
Engineer	Takahiro Kawakami
Mode	Tx 11n-20 MIMO

11n-20 MIMO
Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			Chain 0	Chain 1	Sum				Chain 0	Chain 1	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5180	-	17.539	2.86	2.11	4.97	6.96	23.97	17.01	2.87	0.63	3.50	5.44	29.97	24.53
5220	-	17.523	3.16	2.22	5.37	7.30	23.97	16.67	3.17	0.66	3.83	5.83	29.97	24.14
5240	-	17.528	3.29	2.24	5.53	7.43	23.97	16.54	3.30	0.67	3.97	5.99	29.97	23.98
5745	-	17.537	5.98	2.23	8.22	9.15	30.00	20.85	6.01	0.67	6.68	8.25	36.00	27.75
5785	-	17.513	5.92	2.34	8.26	9.17	30.00	20.83	5.94	0.70	6.64	8.22	36.00	27.78
5825	-	17.534	5.70	2.27	7.97	9.02	30.00	20.98	5.73	0.68	6.40	8.06	36.00	27.94

		Chain 0						**Chain 1**					
Tested Frequency	-	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.
[MHz]		[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5180	-	-9.22	3.69	10.09	0.02	4.56	4.58	-10.43	3.70	9.98	-5.26	3.25	-2.01
5220	-	-8.80	3.70	10.09	0.02	4.99	5.01	-10.23	3.71	9.98	-5.26	3.46	-1.80
5240	-	-8.62	3.70	10.09	0.02	5.17	5.19	-10.18	3.71	9.98	-5.26	3.51	-1.75
5745	-	-6.26	3.92	10.11	0.02	7.77	7.79	-10.43	3.93	9.99	-5.26	3.49	-1.77
5785	-	-6.32	3.93	10.11	0.02	7.72	7.74	-10.22	3.93	9.99	-5.26	3.70	-1.56
5825	-	-6.49	3.94	10.11	0.02	7.56	7.58	-10.37	3.94	9.99	-5.26	3.56	-1.70

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss
e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW
Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)
Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power(Spot-check test)

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.3 Shielded Room
Date	August 13, 2021
Temperature / Humidity	23 deg. C / 55 % RH
Engineer	Takahiro Kawakami
Mode	Tx 11ac-20 MIMO

11ac-20 MIMO
Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			Chain 0	Chain 1	Sum				Chain 0	Chain 1	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5180	-	17.519	2.87	2.07	4.95	6.94	23.97	17.03	2.88	0.62	3.50	5.44	29.97	24.53
5220	-	17.526	3.21	2.30	5.51	7.41	23.97	16.56	3.22	0.69	3.91	5.92	29.97	24.05
5240	-	17.524	3.33	2.30	5.63	7.51	23.97	16.46	3.35	0.68	4.03	6.06	29.97	23.91
5745	-	17.517	5.85	2.18	8.03	9.04	30.00	20.96	5.87	0.65	6.52	8.14	36.00	27.86
5785	-	17.520	5.65	2.28	7.92	8.99	30.00	21.01	5.68	0.68	6.35	8.03	36.00	27.97
5825	-	17.520	5.52	2.20	7.72	8.88	30.00	21.12	5.55	0.66	6.20	7.93	36.00	28.07

		Chain 0						**Chain 1**					
Tested Frequency	-	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5180	-	-9.20	3.69	10.09	0.02	4.58	4.60	-10.51	3.70	9.98	-5.26	3.17	-2.09
5220	-	-8.73	3.70	10.09	0.02	5.06	5.08	-10.07	3.71	9.98	-5.26	3.62	-1.64
5240	-	-8.56	3.70	10.09	0.02	5.23	5.25	-10.08	3.71	9.98	-5.26	3.61	-1.65
5745	-	-6.36	3.92	10.11	0.02	7.67	7.69	-10.54	3.93	9.99	-5.26	3.38	-1.88
5785	-	-6.52	3.93	10.11	0.02	7.52	7.54	-10.35	3.93	9.99	-5.26	3.57	-1.69
5825	-	-6.63	3.94	10.11	0.02	7.42	7.44	-10.50	3.94	9.99	-5.26	3.43	-1.83

Sample Calculation:
Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss
e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW
Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)
Conducted Power Limit (5725 MHz-5850 MHz) = 1 W

Maximum Conducted Output Power(Spot-check test)

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.3 Shielded Room
Date	August 13, 2021
Temperature / Humidity	23 deg. C / 55 % RH
Engineer	Takahiro Kawakami
Mode	Tx 11n-40 MIMO

11n-40

Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			Chain 0	Chain 1	Sum				Chain 0	Chain 1	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5190	-	35.948	2.35	1.74	4.09	6.12	23.97	17.85	2.36	0.52	2.88	4.59	29.97	25.38
5230	-	36.045	2.55	1.80	4.35	6.38	23.97	17.59	2.56	0.54	3.09	4.91	29.97	25.06
5755	-	35.987	4.67	1.90	6.57	8.17	30.00	21.83	4.69	0.57	5.25	7.21	36.00	28.79
5795	-	36.002	4.62	1.80	6.42	8.08	30.00	21.92	4.65	0.54	5.18	7.14	36.00	28.86

		Chain 0						**Chain 1**					
Tested Frequency	-	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Reading	Cable Loss	Atten. Loss	Antenna Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	-	-10.07	3.69	10.09	0.02	3.71	3.73	-11.27	3.70	9.98	-5.26	2.41	-2.85
5230	-	-9.73	3.70	10.09	0.02	4.06	4.08	-11.14	3.71	9.98	-5.26	2.55	-2.71
5755	-	-7.34	3.92	10.11	0.02	6.69	6.71	-11.13	3.93	9.99	-5.26	2.79	-2.47
5795	-	-7.39	3.93	10.11	0.02	6.65	6.67	-11.38	3.94	9.99	-5.26	2.55	-2.71

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power(Spot-check test)

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.3 Shielded Room
Date	August 13, 2021
Temperature / Humidity	23 deg. C / 55 % RH
Engineer	Takahiro Kawakami
Mode	Tx 11ac-40 MIMO

11ac-40

Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted power						e.i.r.p.					
			Antenna			Result	Limit	Margin	Antenna			Result	Limit	Margin
			Chain 0	Chain 1	Sum				Chain 0	Chain 1	Sum			
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5190	-	35.965	2.35	1.76	4.11	6.14	23.97	17.83	2.36	0.52	2.88	4.60	29.97	25.37
5230	-	35.982	2.57	1.81	4.38	6.41	23.97	17.56	2.58	0.54	3.12	4.94	29.97	25.03
5755	-	35.965	4.75	1.95	6.70	8.26	30.00	21.74	4.78	0.58	5.36	7.29	36.00	28.71
5795	-	35.991	4.71	1.81	6.52	8.14	30.00	21.86	4.73	0.54	5.27	7.22	36.00	28.78

		Chain 0						**Chain 1**					
Tested Frequency	-	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result		Reading	Cable Loss	Antenna Loss	Antenna Gain	Result	
						Cond. Power	e.i.r.p.					Cond. Power	e.i.r.p.
[MHz]		[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5190	-	-10.07	3.69	10.09	0.02	3.71	3.73	-11.23	3.70	9.98	-5.26	2.45	-2.81
5230	-	-9.69	3.70	10.09	0.02	4.10	4.12	-11.12	3.71	9.98	-5.26	2.57	-2.69
5755	-	-7.26	3.92	10.11	0.02	6.77	6.79	-11.02	3.93	9.99	-5.26	2.90	-2.36
5795	-	-7.31	3.93	10.11	0.02	6.73	6.75	-11.35	3.94	9.99	-5.26	2.58	-2.68

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

Maximum Conducted Output Power(Spot-check test)

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.3 Shielded Room
Date	August 13, 2021
Temperature / Humidity	23 deg. C / 55 % RH
Engineer	Takahiro Kawakami
Mode	Tx 11ac-80 MIMO

11ac-80

Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	26 dB EBW (B for FCC)	99 % OBW (B for IC)	Conducted power Antenna Chain 0	Antenna Chain 1	Antenna Sum	Result	Limit	Margin	e.i.r.p. Antenna Chain 0	Antenna Chain 1	Antenna Sum	Result	Limit	Margin
[MHz]	[MHz]	[MHz]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]	[mW]	[mW]	[mW]	[dBm]	[dBm]	[dB]
5210	-	74.975	2.04	1.53	3.57	5.53	23.97	18.44	2.05	0.45	2.51	3.99	29.97	25.98
5775	-	75.023	3.89	1.46	5.35	7.28	30.00	22.72	3.91	0.43	4.34	6.38	36.00	29.62

		Chain 0						**Chain 1**					
Tested Frequency	-	Reading	Cable Loss	Atten. Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.	Reading	Cable Loss	Antenna Loss	Antenna Gain	Result Cond. Power	Result e.i.r.p.
[MHz]		[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]	[dBm]	[dB]	[dB]	[dBi]	[dBm]	[dBm]
5210	-	-10.68	3.69	10.09	0.02	3.10	3.12	-11.84	3.70	9.98	-5.26	1.84	-3.42
5775	-	-8.14	3.93	10.11	0.02	5.90	5.92	-12.29	3.93	9.99	-5.26	1.63	-3.63

Sample Calculation:

Conducted Power Result = Reading + Cable Loss (including the cable(s) customer supplied) + Atten. Loss

e.i.r.p. Result = Conducted Power Result + Antenna Gain

Conducted Power Limit (5150 MHz-5250 MHz) = 250 mW

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

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

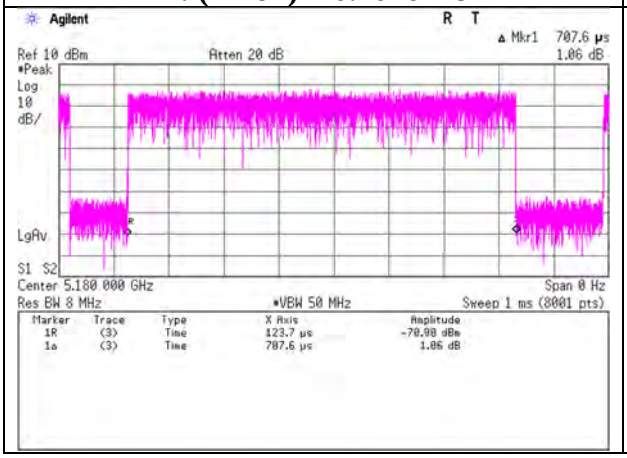
Burst rate confirmation

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 5, 2021
Temperature / Humidity	26 deg. C / 52 % RH
Engineer	Hiromasa Sato
Mode	Tx

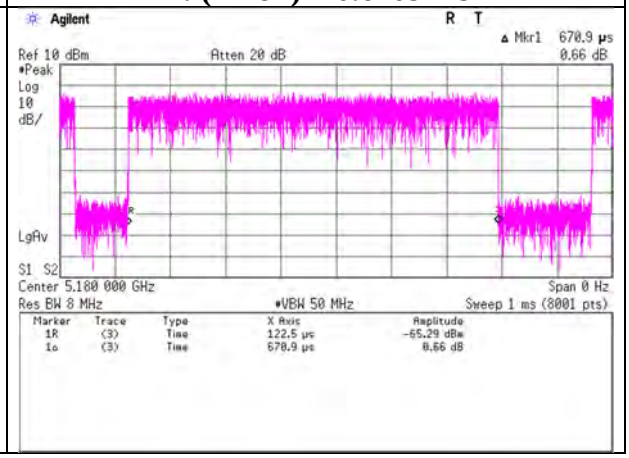
11a, 18 Mbps

VBW: 1/T = 1414 Hz < 1500 Hz
T: (Tx on) = 0.7076 ms



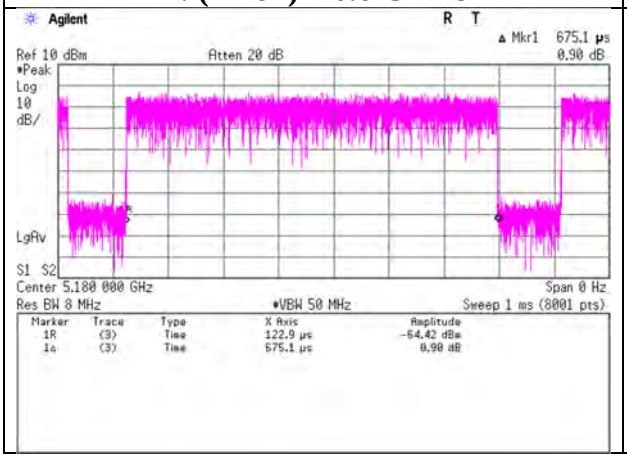
11n-20 SISO, MCS 2

VBW: 1/T = 1491 Hz < 1500 Hz
T: (Tx on) = 0.6709 ms



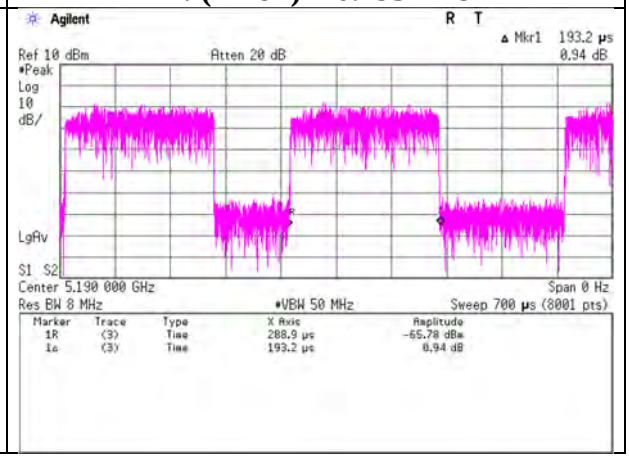
11ac-20 SISO, MCS 2

VBW: 1/T = 1482 Hz < 1500 Hz
T: (Tx on) = 0.6751 ms



11n-40 SISO, MCS 4

VBW: 1/T = 5176 Hz < 5600 Hz
T: (Tx on) = 0.1932 ms



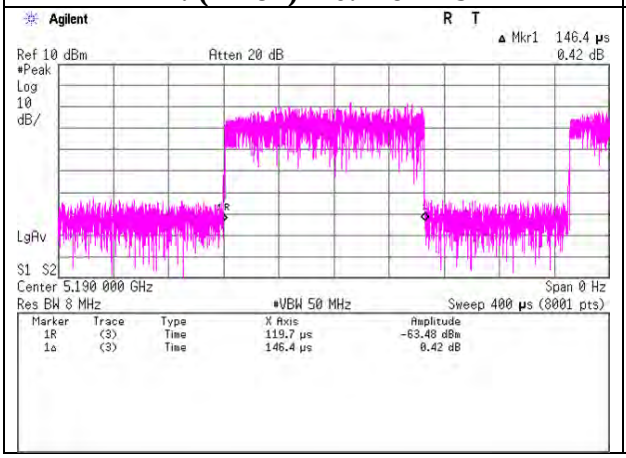
Burst rate confirmation

(Test model number: DNNS122)

Report No.	14071795S-C	
Test place	Shonan EMC Lab. No.5 Shielded Room	
Date	February 5, 2021	February 19, 2021
Temperature / Humidity	26 deg. C / 52 % RH	22 deg. C / 42 % RH
Engineer	Hiromasa Sato	Toshinori Yamada
Mode	Tx	

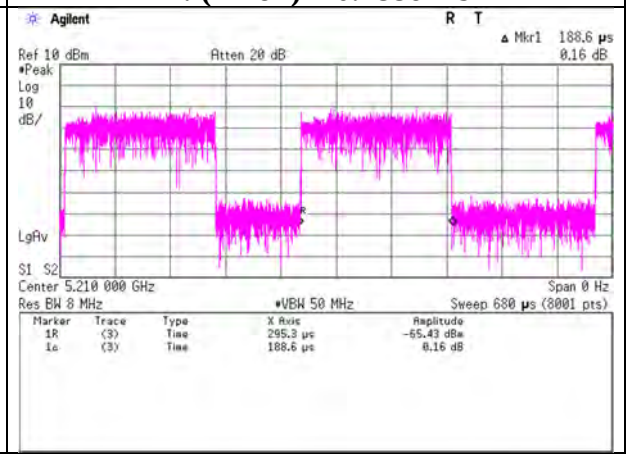
11ac-40 SISO, MCS 6

VBW: 1/T = 6831 Hz < 7500 Hz
T: (Tx on) = 0.1464 ms



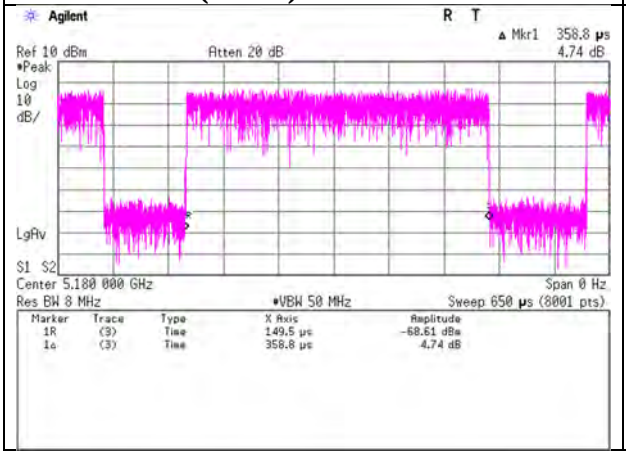
11ac-80 SISO, MCS 2

VBW: 1/T = 5303 Hz < 5600 Hz
T: (Tx on) = 0.1886 ms



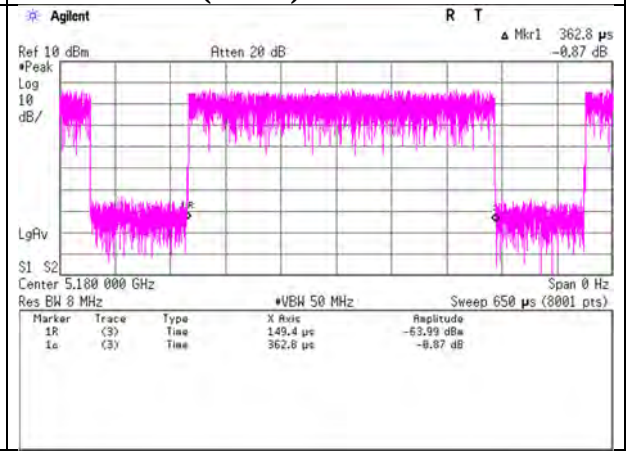
11n-20 MIMO, MCS 10

VBW: 1/T = 2788 Hz < 3000 Hz
T: (Tx on) = 0.3588 ms



11ac-20 MIMO, MCS 2

VBW: 1/T = 2757 Hz < 3000 Hz
T: (Tx on) = 0.3628 ms



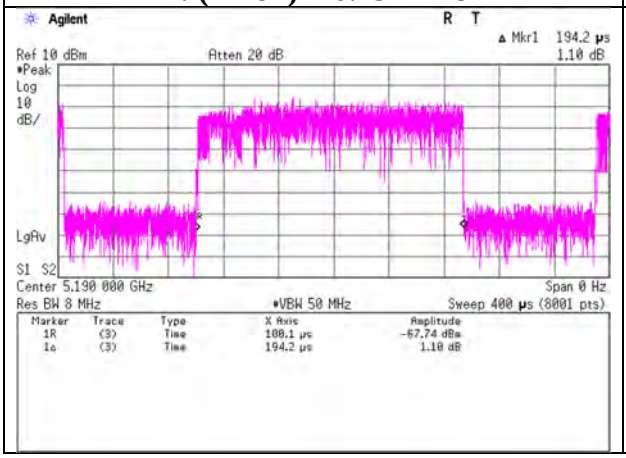
Burst rate confirmation

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 19, 2021
Temperature / Humidity	22 deg. C / 42 % RH
Engineer	Toshinori Yamada
Mode	Tx

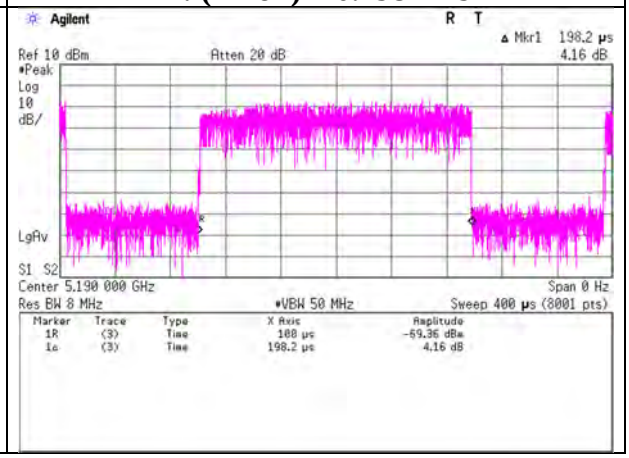
11n-40 MIMO, MCS 10

VBW: 1/T = 5150 Hz < 5600 Hz
T: (Tx on) = 0.1942 ms



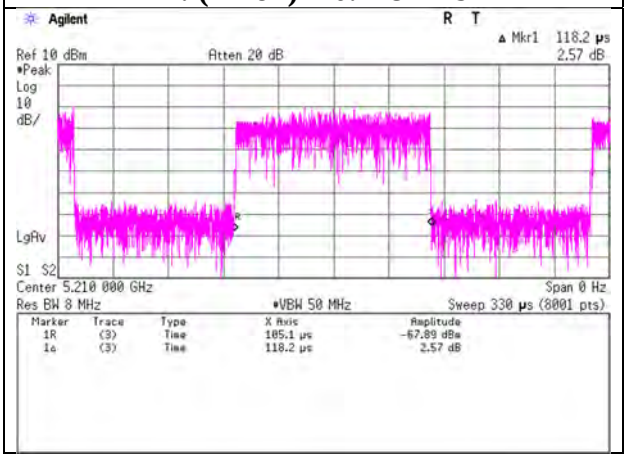
11ac-40 MIMO, MCS 2

VBW: 1/T = 5046 Hz < 5100 Hz
T: (Tx on) = 0.1982 ms



11ac-80 MIMO, MCS 2

VBW: 1/T = 8461 Hz < 9100 Hz
T: (Tx on) = 0.1182 ms



Maximum Power Spectral Density

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 26, 2021
Temperature / Humidity	24 deg. C / 41 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11a

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	PSD (Conducted) Limit [dBm /MHz]	PSD (Conducted) Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	PSD (e.i.r.p.) Limit [dBm /MHz]	PSD (e.i.r.p.) Margin [dB]
5180	-17.73	2.81	9.94	0.02	0.00	-4.98	11.00	15.98	-4.96	17.00	21.96
5220	-17.19	2.81	9.94	0.02	0.00	-4.44	11.00	15.44	-4.42	17.00	21.42
5240	-16.70	2.81	9.94	0.02	0.00	-3.95	11.00	14.95	-3.93	17.00	20.93
5745	-23.58	2.99	9.94	0.02	6.99	-3.66	30.00	33.66	-3.64	36.00	39.64
5785	-23.61	2.99	9.94	0.02	6.99	-3.69	30.00	33.69	-3.67	36.00	39.67
5825	-24.00	2.99	9.94	0.02	6.99	-4.08	30.00	34.08	-4.06	36.00	40.06

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

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

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

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

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

Maximum Power Spectral Density

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 26, 2021
Temperature / Humidity	24 deg. C / 41 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11n-20 SISO

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	PSD (Conducted) Limit [dBm /MHz]	PSD (Conducted) Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	PSD (e.i.r.p.) Limit [dBm /MHz]	PSD (e.i.r.p.) Margin [dB]
5180	-20.63	2.81	9.94	0.02	0.00	-7.88	11.00	18.88	-7.86	17.00	24.86
5220	-20.19	2.81	9.94	0.02	0.00	-7.44	11.00	18.44	-7.42	17.00	24.42
5240	-19.58	2.81	9.94	0.02	0.00	-6.83	11.00	17.83	-6.81	17.00	23.81
5745	-26.47	2.99	9.94	0.02	6.99	-6.55	30.00	36.55	-6.53	36.00	42.53
5785	-25.98	2.99	9.94	0.02	6.99	-6.06	30.00	36.06	-6.04	36.00	42.04
5825	-26.63	2.99	9.94	0.02	6.99	-6.71	30.00	36.71	-6.69	36.00	42.69

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

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

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

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

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

Maximum Power Spectral Density

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 26, 2021
Temperature / Humidity	24 deg. C / 41 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11ac-20 SISO

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	PSD (Conducted) Limit [dBm /MHz]	PSD (Conducted) Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	PSD (e.i.r.p.) Limit [dBm /MHz]	PSD (e.i.r.p.) Margin [dB]
5180	-19.15	2.81	9.94	0.02	0.00	-6.40	11.00	17.40	-6.38	17.00	23.38
5220	-18.74	2.81	9.94	0.02	0.00	-5.99	11.00	16.99	-5.97	17.00	22.97
5240	-18.47	2.81	9.94	0.02	0.00	-5.72	11.00	16.72	-5.70	17.00	22.70
5745	-25.05	2.99	9.94	0.02	6.99	-5.13	30.00	35.13	-5.11	36.00	41.11
5785	-25.25	2.99	9.94	0.02	6.99	-5.33	30.00	35.33	-5.31	36.00	41.31
5825	-25.44	2.99	9.94	0.02	6.99	-5.52	30.00	35.52	-5.50	36.00	41.50

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

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

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

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

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

Maximum Power Spectral Density

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 26, 2021
Temperature / Humidity	24 deg. C / 41 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11n-40 SISO

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	PSD (Conducted) Limit [dBm /MHz]	PSD (Conducted) Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	PSD (e.i.r.p.) Limit [dBm /MHz]	PSD (e.i.r.p.) Margin [dB]
5190	-23.48	2.81	9.94	0.02	0.00	-10.73	11.00	21.73	-10.71	17.00	27.71
5230	-23.07	2.81	9.94	0.02	0.00	-10.32	11.00	21.32	-10.30	17.00	27.30
5755	-29.41	2.99	9.94	0.02	6.99	-9.49	30.00	39.49	-9.47	36.00	45.47
5795	-29.53	2.99	9.94	0.02	6.99	-9.61	30.00	39.61	-9.59	36.00	45.59

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

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

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

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

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

Maximum Power Spectral Density

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 26, 2021
Temperature / Humidity	24 deg. C / 41 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11ac-40 SISO

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	Limit [dBm /MHz]	Margin [dB]
5190	-24.74	2.81	9.94	0.02	0.00	-11.99	11.00	22.99	-11.97	17.00	28.97
5230	-24.70	2.81	9.94	0.02	0.00	-11.95	11.00	22.95	-11.93	17.00	28.93
5755	-30.70	2.99	9.94	0.02	6.99	-10.78	30.00	40.78	-10.76	36.00	46.76
5795	-30.66	2.99	9.94	0.02	6.99	-10.74	30.00	40.74	-10.72	36.00	46.72

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

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

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

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

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

Maximum Power Spectral Density

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 26, 2021
Temperature / Humidity	24 deg. C / 41 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11ac-80 SISO

Applied limit: 15.407, mobile and portable client device

Tested Frequency [MHz]	PSD Reading [dBm /MHz]	Cable Loss [dB]	Atten. Loss [dB]	Antenna Gain [dBi]	RBW Correction Factor [dB]	PSD (Conducted) Result [dBm /MHz]	PSD (Conducted) Limit [dBm /MHz]	PSD (Conducted) Margin [dB]	PSD (e.i.r.p.) Result [dBm /MHz]	PSD (e.i.r.p.) Limit [dBm /MHz]	PSD (e.i.r.p.) Margin [dB]
5210	-26.92	2.81	9.94	0.02	0.00	-14.17	11.00	25.17	-14.15	17.00	31.15
5775	-33.40	2.99	9.94	0.02	6.99	-13.48	30.00	43.48	-13.46	36.00	49.46

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

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

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

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

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

Maximum Power Spectral Density

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 24, 2021
Temperature / Humidity	24 deg. C / 46 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11n-20 MIMO

Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	PSD (Conducted) Antenna			Result	Limit	Margin	PSD (e.i.r.p.) Antenna			Result	Limit	Margin
	Chain 0	Chain 1	Sum				Chain 0	Chain 1	Sum			
[MHz]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5180	0.24	0.18	0.42	-3.73	11.00	14.73	0.24	0.05	0.30	-5.29	17.00	22.29
5220	0.25	0.20	0.45	-3.49	11.00	14.49	0.25	0.06	0.31	-5.07	17.00	22.07
5240	0.27	0.21	0.48	-3.17	11.00	14.17	0.27	0.06	0.33	-4.78	17.00	21.78
5745	0.31	0.14	0.45	-3.50	30.00	33.50	0.31	0.04	0.35	-4.53	36.00	40.53
5785	0.30	0.14	0.44	-3.55	30.00	33.55	0.30	0.04	0.34	-4.63	36.00	40.63
5825	0.28	0.14	0.42	-3.82	30.00	33.82	0.28	0.04	0.32	-4.93	36.00	40.93

		Chain 0							**Chain 1**					
Tested Frequency	-	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5180	-	0.00	-18.96	2.81	9.94	0.02	-6.21	-6.19	-20.08	2.81	9.93	-5.26	-7.34	-12.60
5220	-	0.00	-18.75	2.81	9.94	0.02	-6.00	-5.98	-19.80	2.81	9.93	-5.26	-7.06	-12.32
5240	-	0.00	-18.47	2.81	9.94	0.02	-5.72	-5.70	-19.42	2.81	9.93	-5.26	-6.68	-11.94
5745	-	6.99	-25.00	2.99	9.94	0.02	-5.08	-5.06	-28.57	2.99	9.93	-5.26	-8.66	-13.92
5785	-	6.99	-25.13	2.99	9.94	0.02	-5.21	-5.19	-28.45	2.99	9.93	-5.26	-8.54	-13.80
5825	-	6.99	-25.45	2.99	9.94	0.02	-5.53	-5.51	-28.60	2.99	9.93	-5.26	-8.69	-13.95

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

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

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

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

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

Maximum Power Spectral Density

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 24, 2021
Temperature / Humidity	24 deg. C / 46 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11ac-20 MIMO

Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	PSD (Conducted) Antenna Chain 0	Antenna Chain 1	Antenna Sum	Result	Limit	Margin	PSD (e.i.r.p.) Antenna Chain 0	Antenna Chain 1	Antenna Sum	Result	Limit	Margin
[MHz]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5180	0.23	0.19	0.42	-3.79	11.00	14.79	0.23	0.06	0.29	-5.42	17.00	22.42
5220	0.26	0.18	0.44	-3.59	11.00	14.59	0.26	0.05	0.31	-5.05	17.00	22.05
5240	0.28	0.19	0.47	-3.27	11.00	14.27	0.28	0.06	0.34	-4.74	17.00	21.74
5745	0.30	0.14	0.44	-3.56	30.00	33.56	0.31	0.04	0.35	-4.61	36.00	40.61
5785	0.31	0.15	0.46	-3.36	30.00	33.36	0.31	0.04	0.36	-4.47	36.00	40.47
5825	0.29	0.14	0.43	-3.70	30.00	33.70	0.29	0.04	0.33	-4.81	36.00	40.81

		Chain 0							**Chain 1**					
Tested Frequency	-	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5180	-	0.00	-19.13	2.81	9.94	0.02	-6.38	-6.36	-19.99	2.81	9.93	-5.26	-7.25	-12.51
5220	-	0.00	-18.65	2.81	9.94	0.02	-5.90	-5.88	-20.17	2.81	9.93	-5.26	-7.43	-12.69
5240	-	0.00	-18.33	2.81	9.94	0.02	-5.58	-5.56	-19.84	2.81	9.93	-5.26	-7.10	-12.36
5745	-	6.99	-25.09	2.99	9.94	0.02	-5.17	-5.15	-28.56	2.99	9.93	-5.26	-8.65	-13.91
5785	-	6.99	-24.99	2.99	9.94	0.02	-5.07	-5.05	-28.16	2.99	9.93	-5.26	-8.25	-13.51
5825	-	6.99	-25.34	2.99	9.94	0.02	-5.42	-5.40	-28.45	2.99	9.93	-5.26	-8.54	-13.80

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

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

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

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

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

Maximum Power Spectral Density

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 24, 2021
Temperature / Humidity	24 deg. C / 46 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11n-40 MIMO

Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	PSD (Conducted) Antenna Chain 0	Antenna Chain 1	Antenna Sum	Result	Limit	Margin	PSD (e.i.r.p.) Antenna Chain 0	Antenna Chain 1	Antenna Sum	Result	Limit	Margin
[MHz]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5190	0.10	0.09	0.19	-7.26	11.00	18.26	0.10	0.03	0.13	-8.98	17.00	25.98
5230	0.11	0.09	0.19	-7.10	11.00	18.10	0.11	0.03	0.13	-8.78	17.00	25.78
5755	0.16	0.08	0.24	-6.17	30.00	36.17	0.16	0.02	0.18	-7.34	36.00	43.34
5795	0.14	0.08	0.23	-6.43	30.00	36.43	0.14	0.02	0.17	-7.71	36.00	43.71

			Chain 0						**Chain 1**					
Tested Frequency	-	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5190	-	0.00	-22.76	2.81	9.94	0.02	-10.01	-9.99	-23.28	2.81	9.93	-5.26	-10.54	-15.80
5230	-	0.00	-22.53	2.81	9.94	0.02	-9.78	-9.76	-23.22	2.81	9.93	-5.26	-10.48	-15.74
5755	-	6.99	-27.90	2.99	9.94	0.02	-7.98	-7.96	-30.76	2.99	9.93	-5.26	-10.85	-16.11
5795	-	6.99	-28.35	2.99	9.94	0.02	-8.43	-8.41	-30.68	2.99	9.93	-5.26	-10.77	-16.03

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

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

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

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

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

Maximum Power Spectral Density

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 24, 2021
Temperature / Humidity	24 deg. C / 46 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11ac-40 MIMO

Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	PSD (Conducted) Antenna Chain 0	Antenna Chain 1	Antenna Sum	Result	Limit	Margin	PSD (e.i.r.p.) Antenna Chain 0	Antenna Chain 1	Antenna Sum	Result	Limit	Margin
[MHz]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5190	0.10	0.08	0.18	-7.47	11.00	18.47	0.10	0.02	0.12	-9.17	17.00	26.17
5230	0.10	0.08	0.18	-7.34	11.00	18.34	0.10	0.02	0.13	-8.98	17.00	25.98
5755	0.13	0.07	0.20	-6.89	30.00	36.89	0.14	0.02	0.16	-8.06	36.00	44.06
5795	0.14	0.06	0.20	-6.94	30.00	36.94	0.14	0.02	0.16	-7.99	36.00	43.99

			Chain 0						**Chain 1**					
Tested Frequency	-	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5190	-	0.00	-22.93	2.81	9.94	0.02	-10.18	-10.16	-23.55	2.81	9.93	-5.26	-10.81	-16.07
5230	-	0.00	-22.70	2.81	9.94	0.02	-9.95	-9.93	-23.52	2.81	9.93	-5.26	-10.78	-16.04
5755	-	6.99	-28.62	2.99	9.94	0.02	-8.70	-8.68	-31.48	2.99	9.93	-5.26	-11.57	-16.83
5795	-	6.99	-28.48	2.99	9.94	0.02	-8.56	-8.54	-31.94	2.99	9.93	-5.26	-12.03	-17.29

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

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

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

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

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

Maximum Power Spectral Density

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 24, 2021
Temperature / Humidity	24 deg. C / 46 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11ac-80 MIMO

Chain 0 + Chain 1

Applied limit: 15.407, mobile and portable client device

Tested Frequency	PSD (Conducted) Antenna			Result	Limit	Margin	PSD (e.i.r.p.) Antenna			Result	Limit	Margin
	Chain 0	Chain 1	Sum				Chain 0	Chain 1	Sum			
[MHz]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[mW/MHz]	[mW/MHz]	[mW/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]
5210	0.04	0.03	0.07	-11.55	11.00	22.55	0.04	0.01	0.05	-13.24	17.00	30.24
5775	0.05	0.02	0.07	-11.27	30.00	41.27	0.05	0.01	0.06	-12.40	36.00	48.40

			Chain 0						**Chain 1**					
Tested Frequency	-	RBW Correction Factor	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.	PSD Reading	Cable Loss	Atten. Loss	Antenna Gain	PSD Result Cond.	PSD Result e.i.r.p.
[MHz]		[dB]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]	[dBm/MHz]	[dB]	[dB]	[dBi]	[dBm/MHz]	[dBm/MHz]
5210	-	0.00	-27.00	2.81	9.94	0.02	-14.25	-14.23	-27.65	2.81	9.93	-5.26	-14.91	-20.17
5775	-	6.99	-32.93	2.99	9.94	0.02	-13.01	-12.99	-35.99	2.99	9.93	-5.26	-16.08	-21.34

Sample Calculation:

PSD: Power Spectral Density

The PSD within 5725 MHz to 5825 MHz are based on any 500 kHz band.

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

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

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

Although the EUT operates on Master mode, more stringent limit for Client device was applied. (U-NII-1 for FCC)

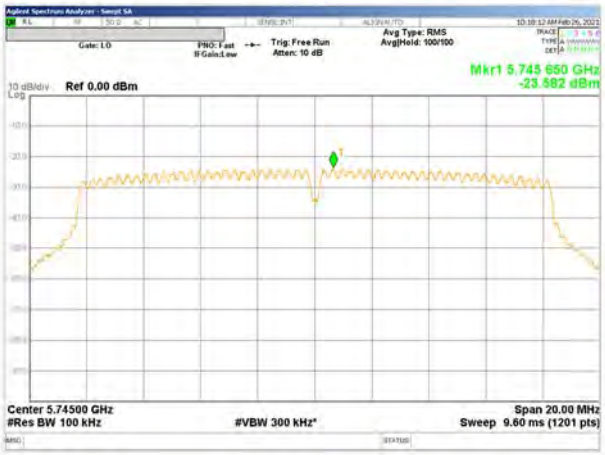
Maximum Power Spectral Density

(Test model number: DNNS122)

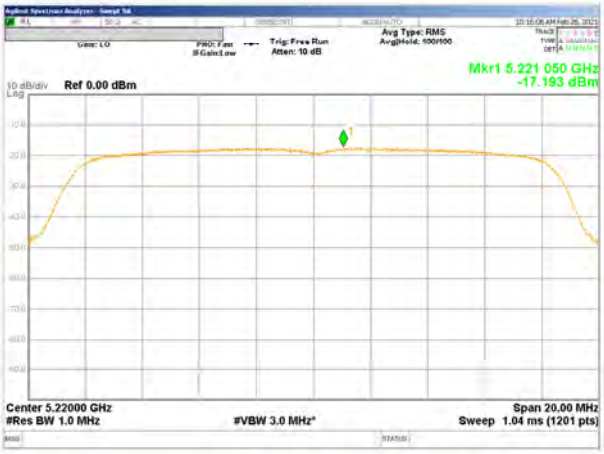
11a

5180 MHz

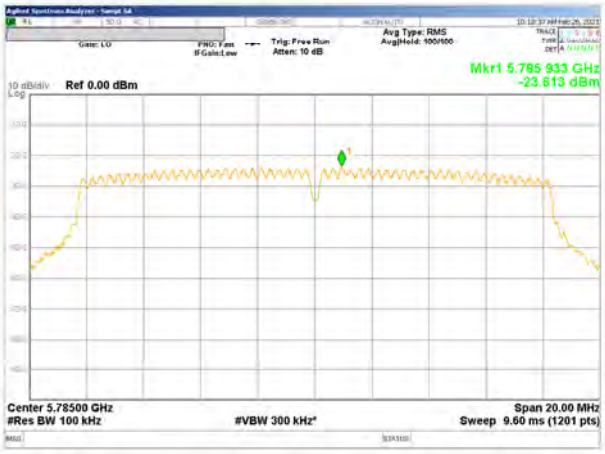
5745 MHz



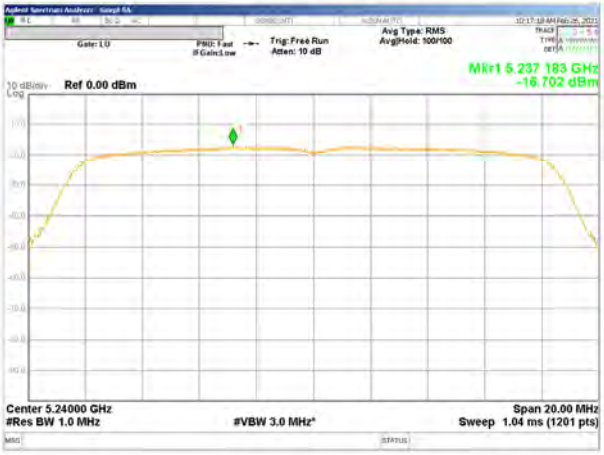
5220 MHz



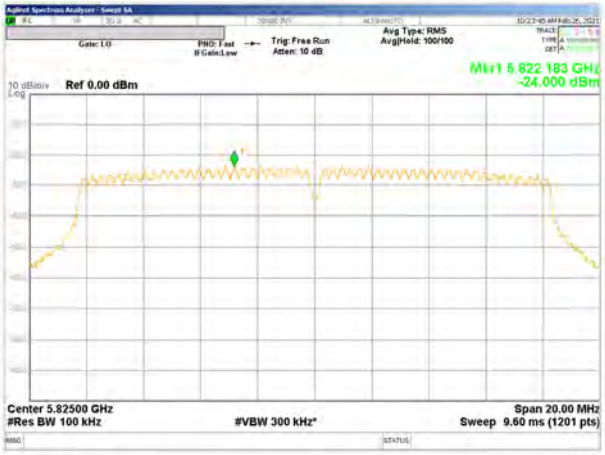
5785 MHz



5240 MHz



5825 MHz

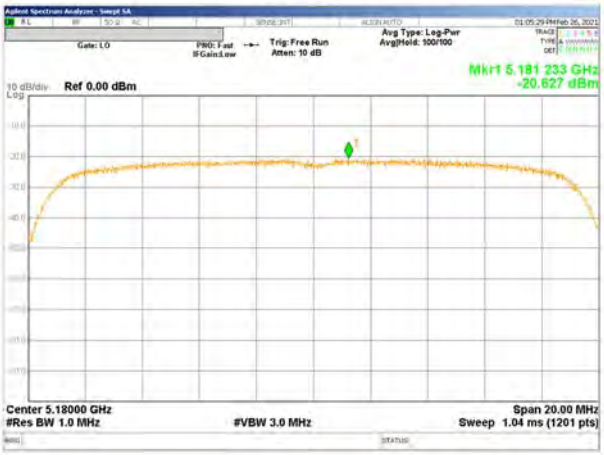


Maximum Power Spectral Density

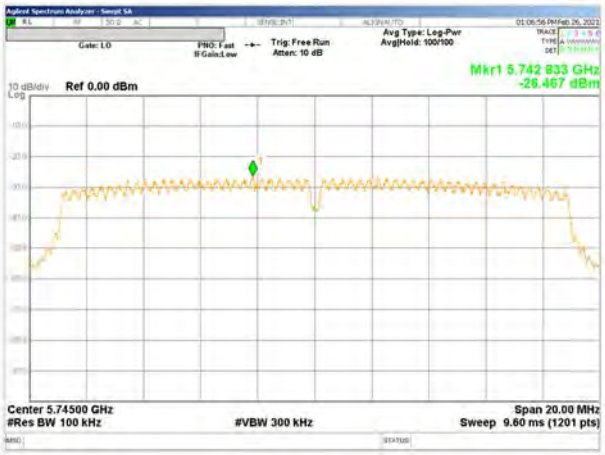
(Test model number: DNNS122)

11n-20 SISO

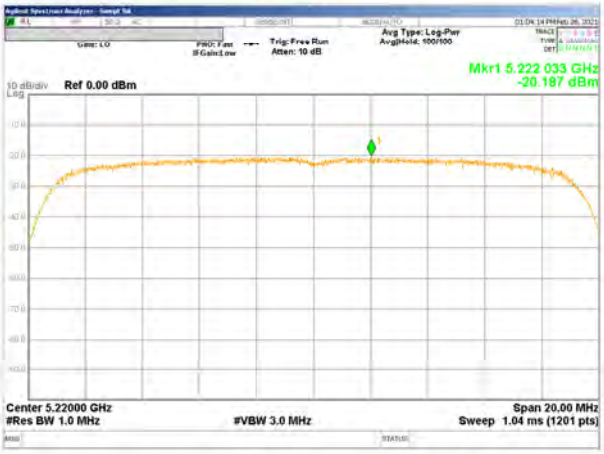
5180 MHz



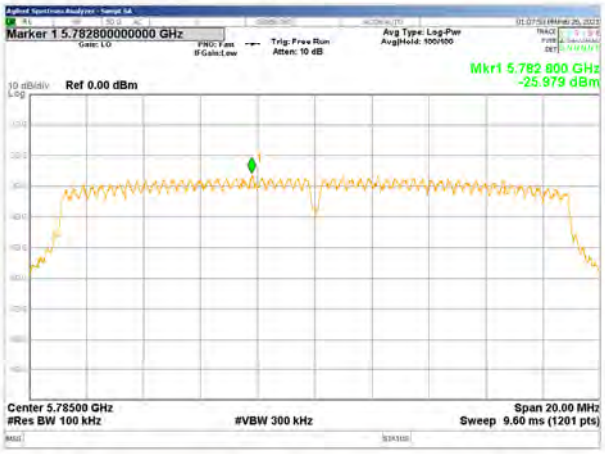
5745 MHz



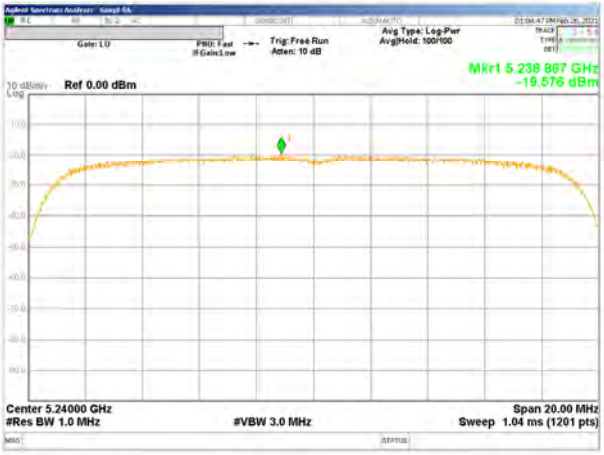
5220 MHz



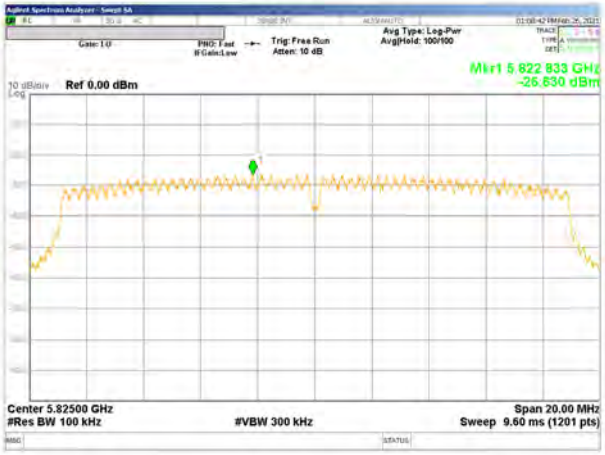
5785 MHz



5240 MHz



5825 MHz

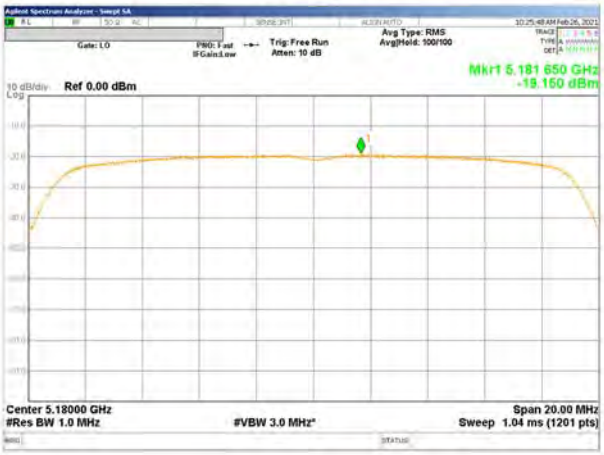


Maximum Power Spectral Density

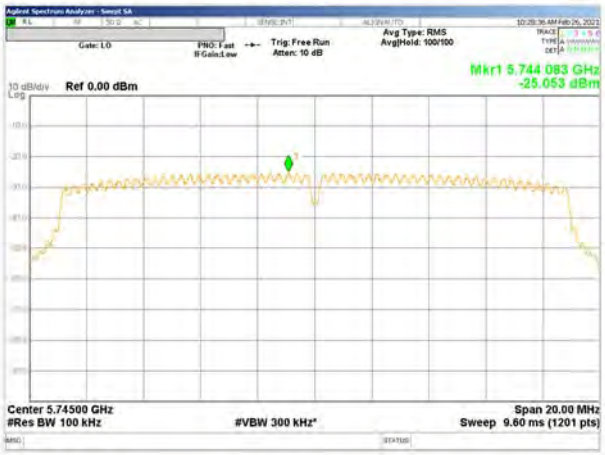
(Test model number: DNNS122)

11ac-20 SISO

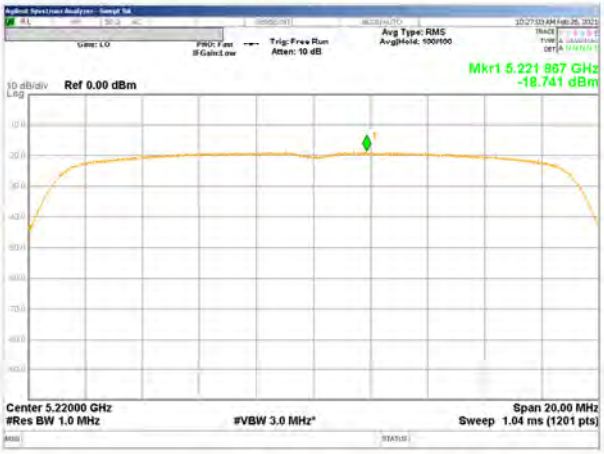
5180 MHz



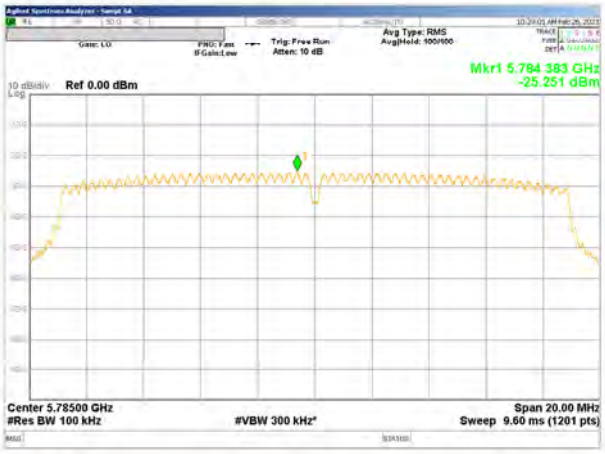
5745 MHz



5220 MHz

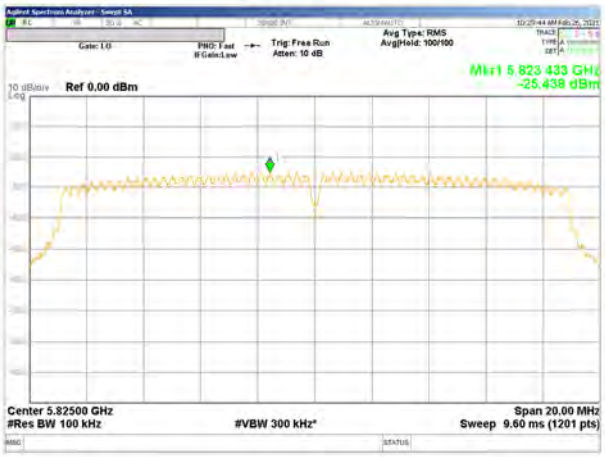


5785 MHz



5240 MHz

5825 MHz



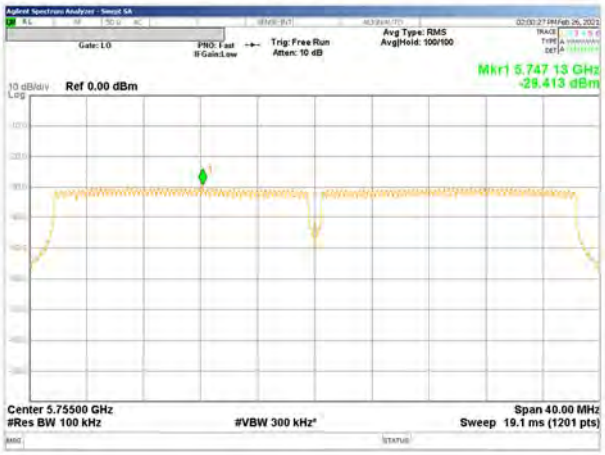
Maximum Power Spectral Density

(Test model number: DNNS122)

11n-40 SISO

5190 MHz

5755 MHz



5230 MHz

5795 MHz

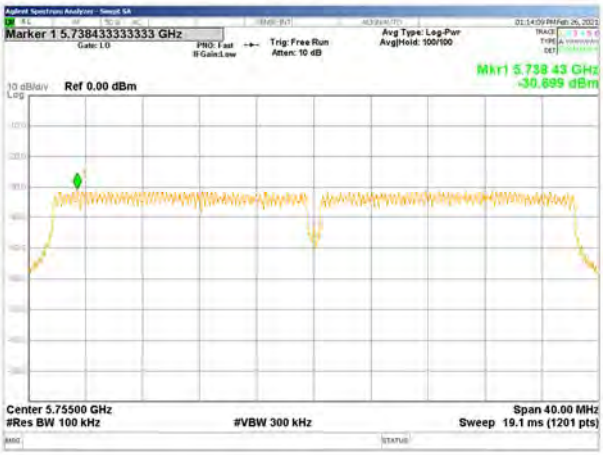
Maximum Power Spectral Density

(Test model number: DNNS122)

11ac-40 SISO

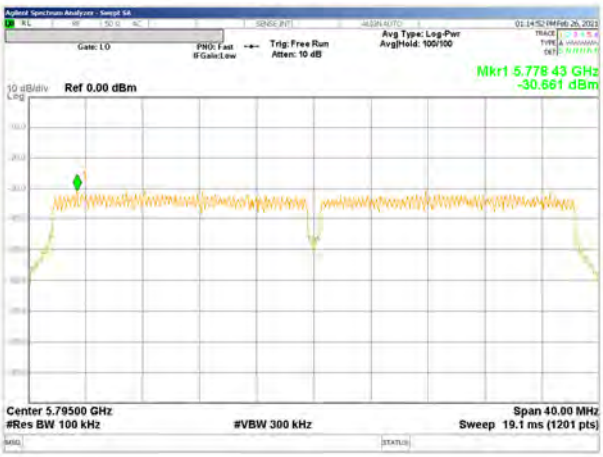
5190 MHz

5755 MHz



5230 MHz

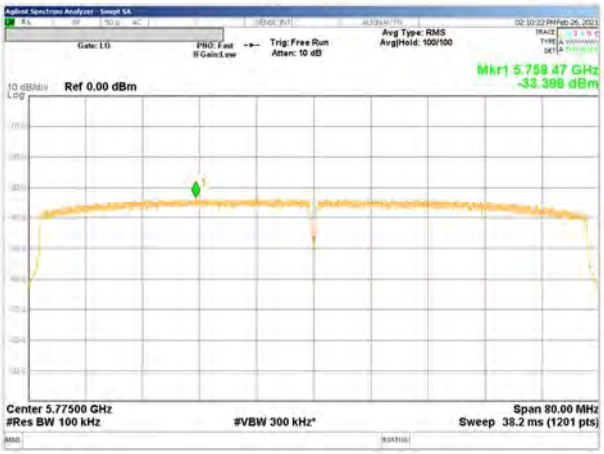
5795 MHz



Maximum Power Spectral Density

(Test model number: DNNS122)

11ac-80 SISO

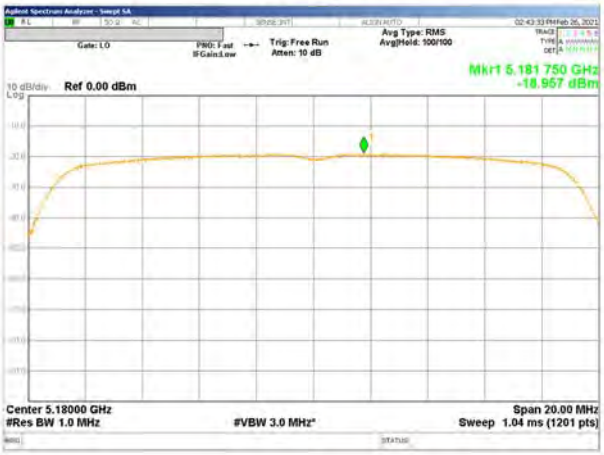
5210 MHz	5775 MHz
	

Maximum Power Spectral Density

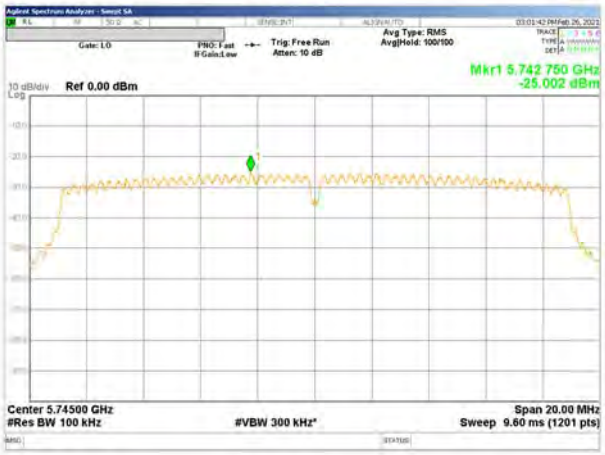
(Test model number: DNNS122)

11n-20 MIMO, Chain 0

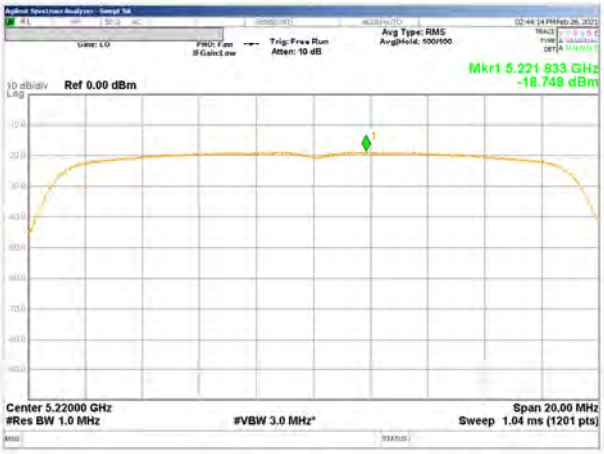
5180 MHz



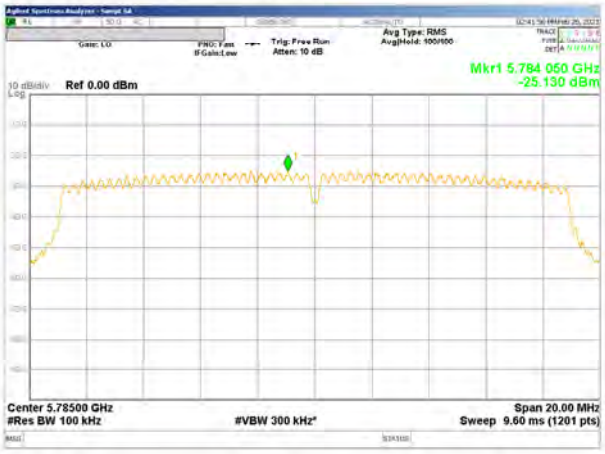
5745 MHz



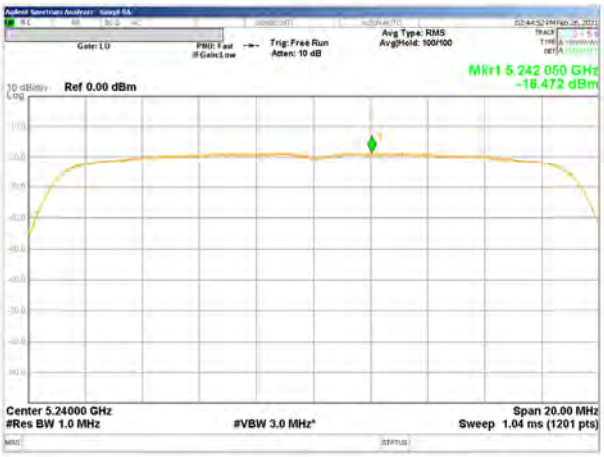
5220 MHz



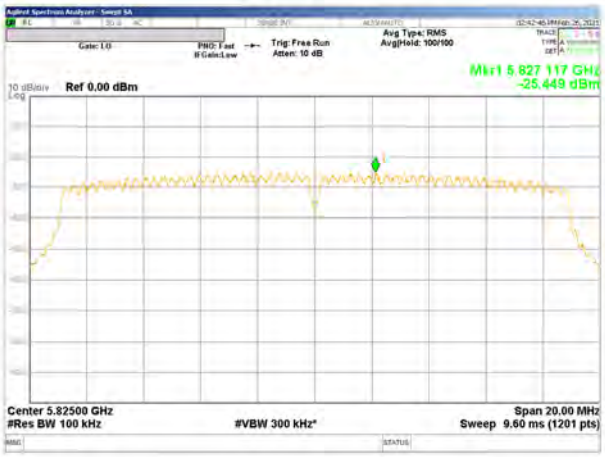
5785 MHz



5240 MHz



5825 MHz

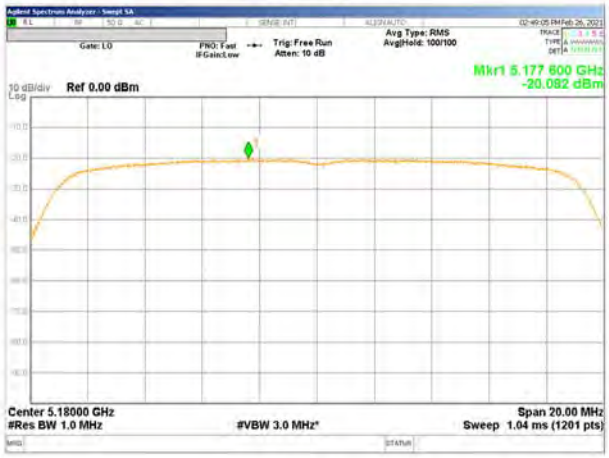


Maximum Power Spectral Density

(Test model number: DNNS122)

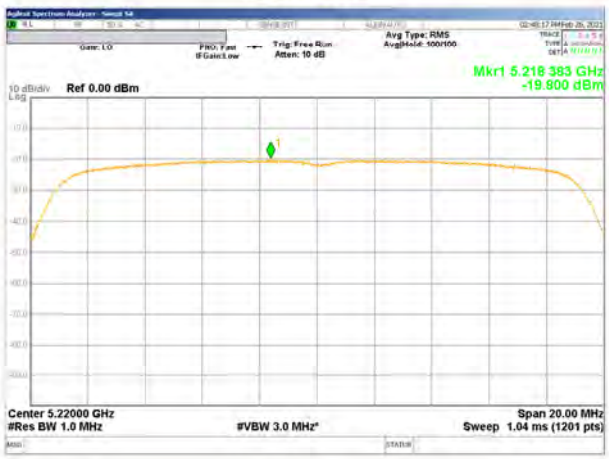
11n-20 MIMO, Chain 1

5180 MHz

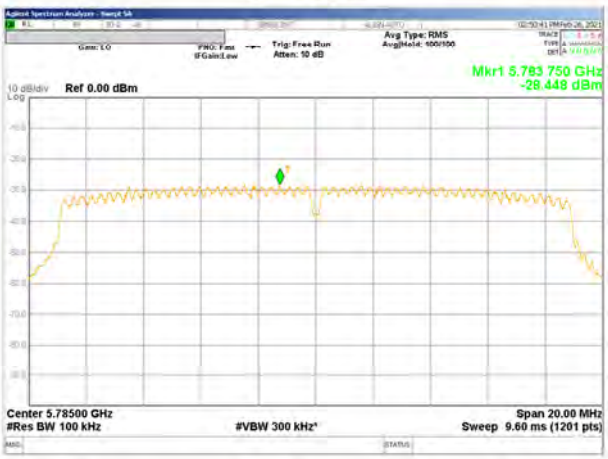


5745 MHz

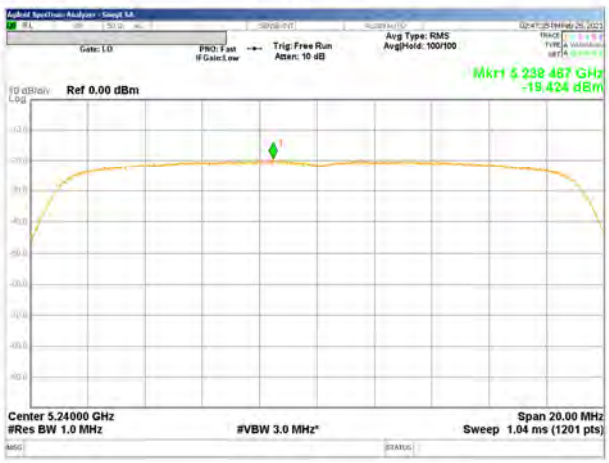
5220 MHz



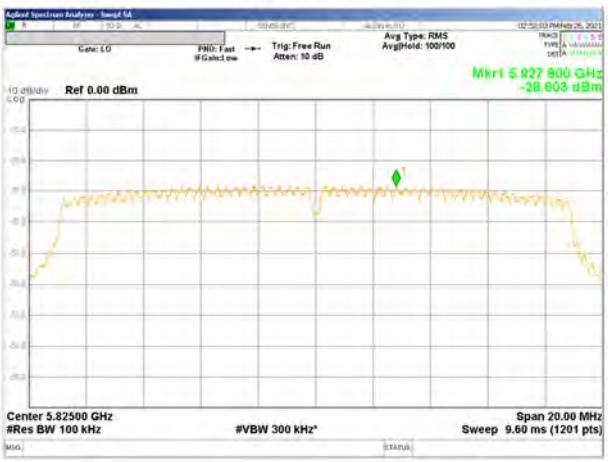
5785 MHz



5240 MHz



5825 MHz

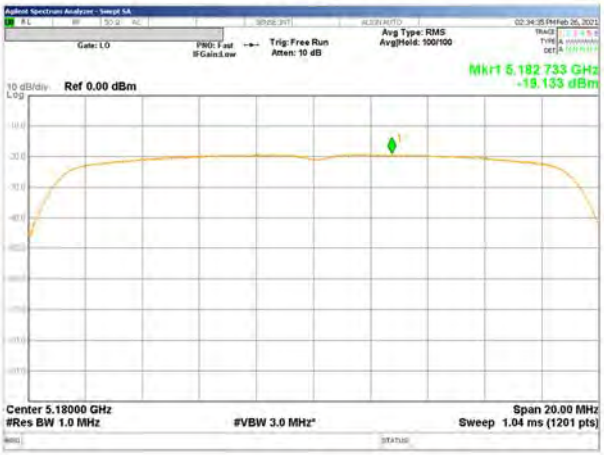


Maximum Power Spectral Density

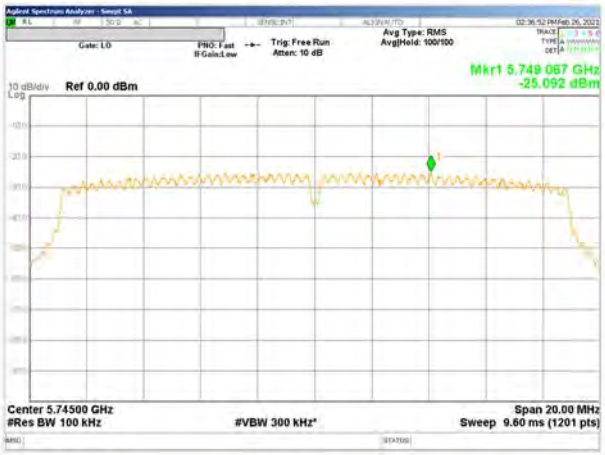
(Test model number: DNNS122)

11ac-20 MIMO, Chain 0

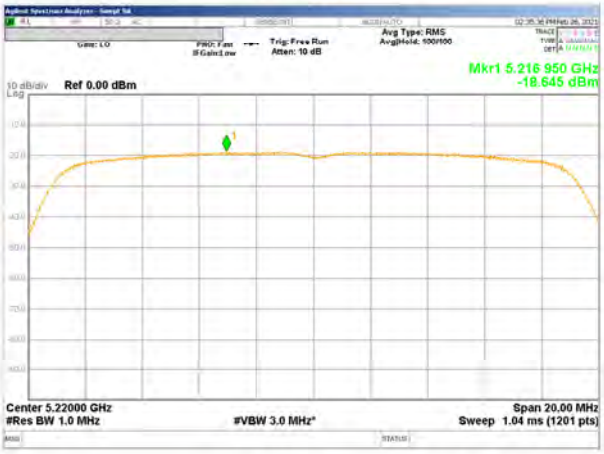
5180 MHz



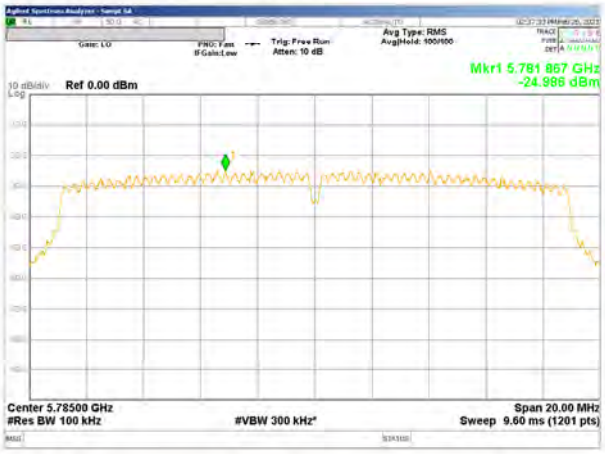
5745 MHz



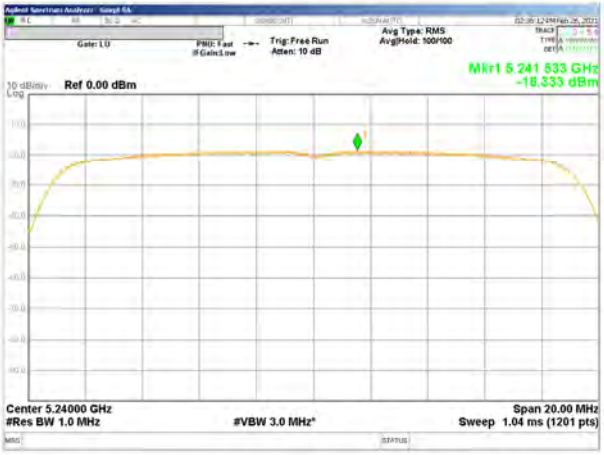
5220 MHz



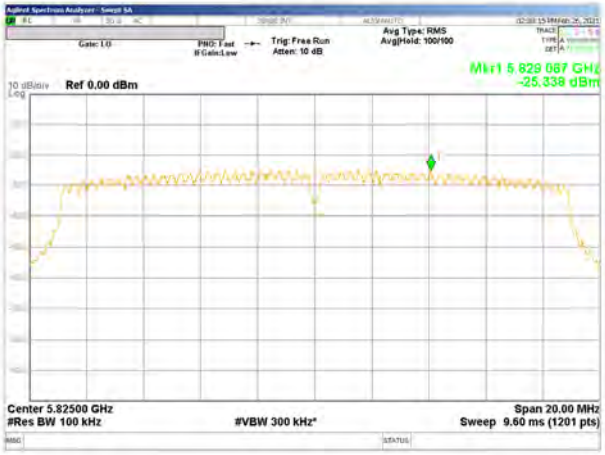
5785 MHz



5240 MHz



5825 MHz

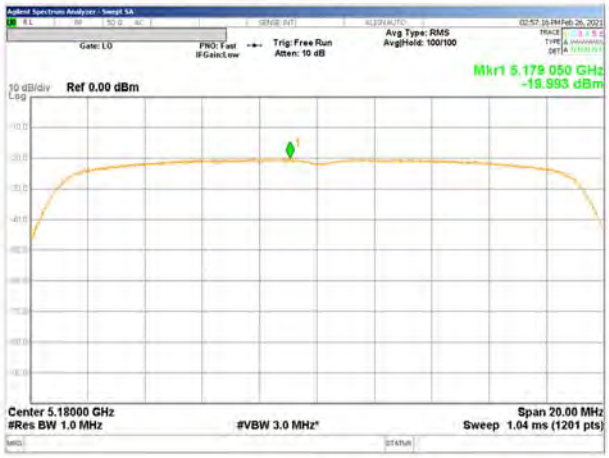


Maximum Power Spectral Density

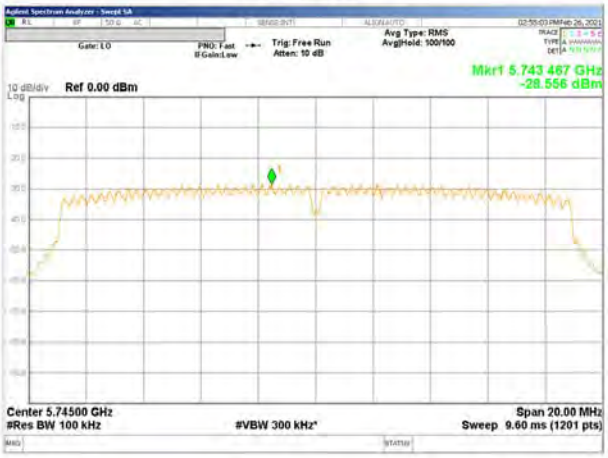
(Test model number: DNNS122)

11ac-20 MIMO, Chain 1

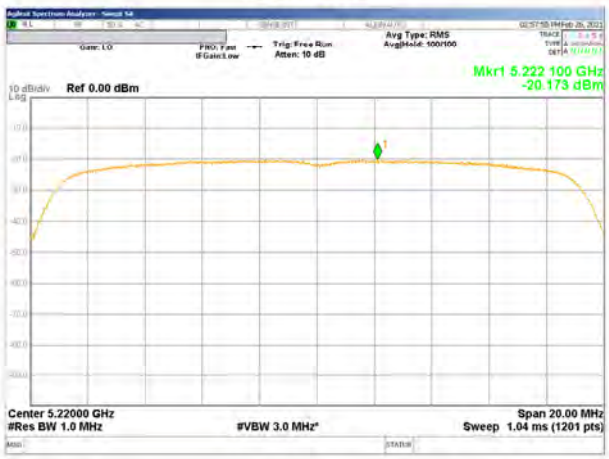
5180 MHz



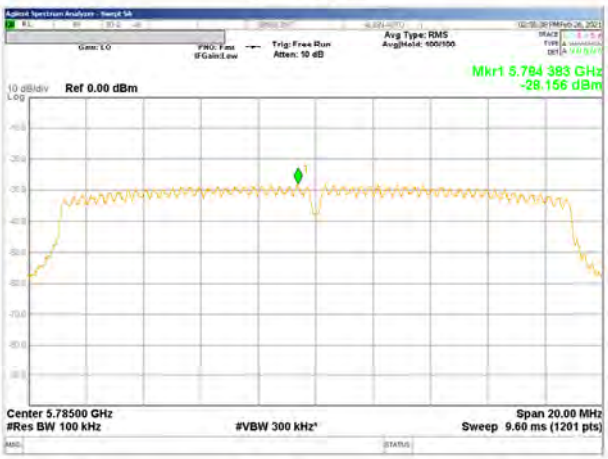
5745 MHz



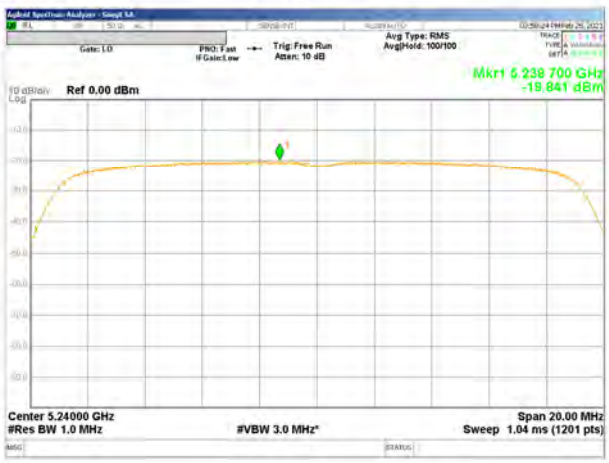
5220 MHz



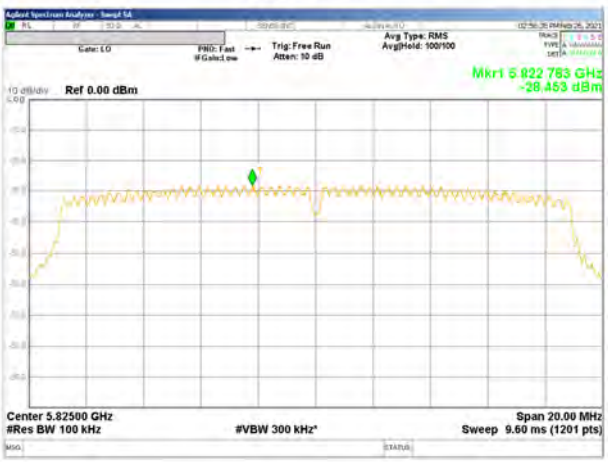
5785 MHz



5240 MHz



5825 MHz

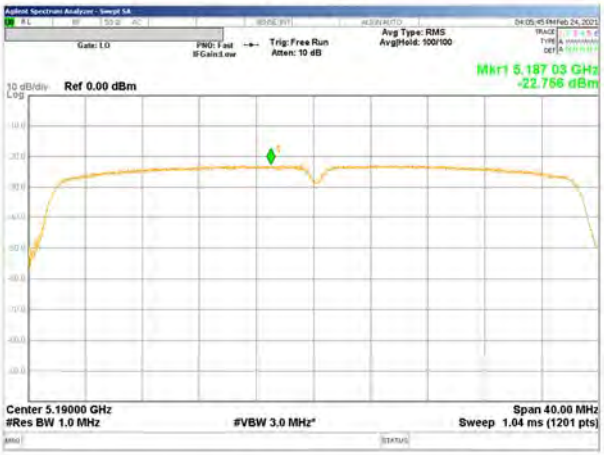


Maximum Power Spectral Density

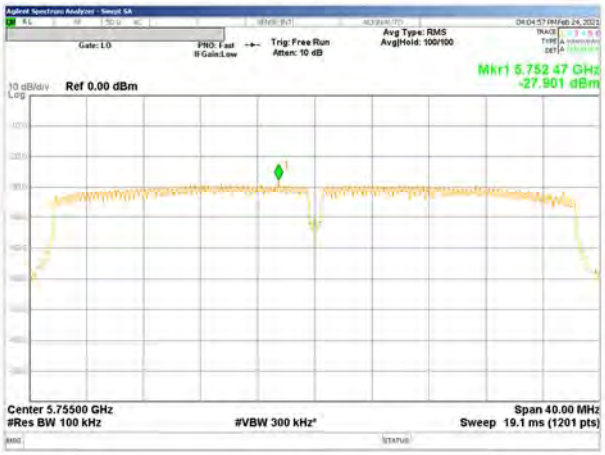
(Test model number: DNNS122)

11n-40 MIMO, Chain 0

5190 MHz

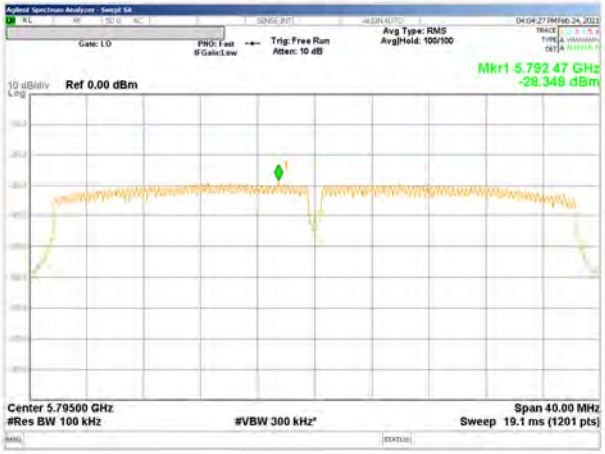


5755 MHz



5230 MHz

5795 MHz



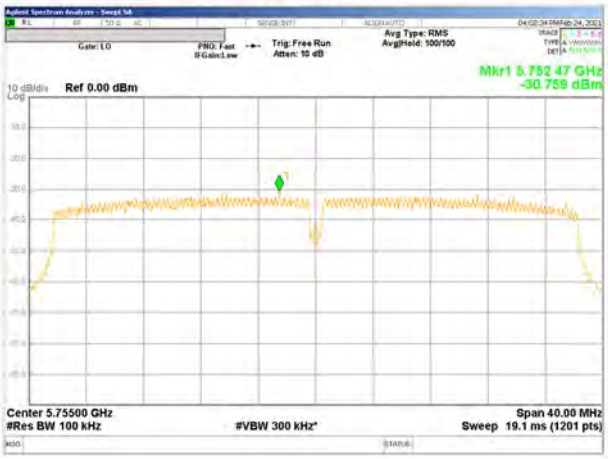
Maximum Power Spectral Density

(Test model number: DNNS122)

11n-40 MIMO, Chain 1

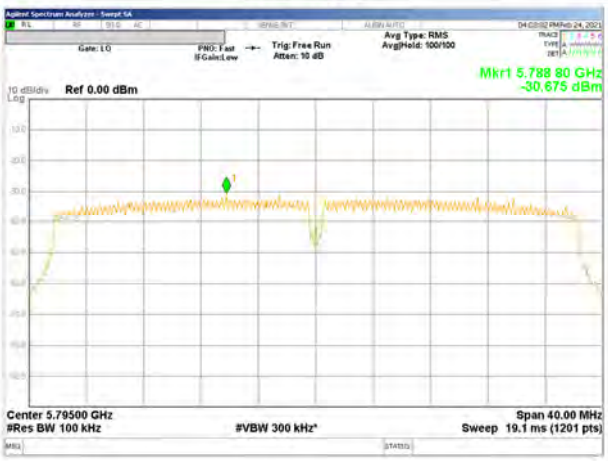
5190 MHz

5755 MHz



5230 MHz

5795 MHz

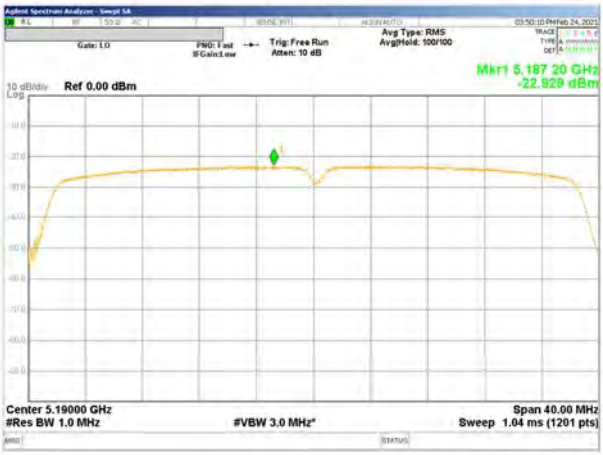


Maximum Power Spectral Density

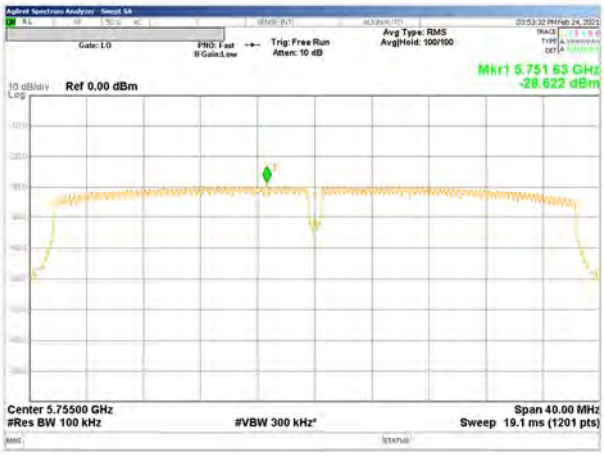
(Test model number: DNNS122)

11ac-40 MIMO, Chain 0

5190 MHz



5755 MHz



5230 MHz

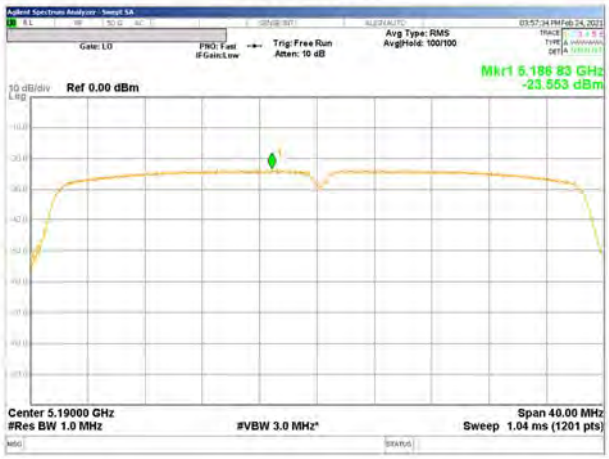
5795 MHz

Maximum Power Spectral Density

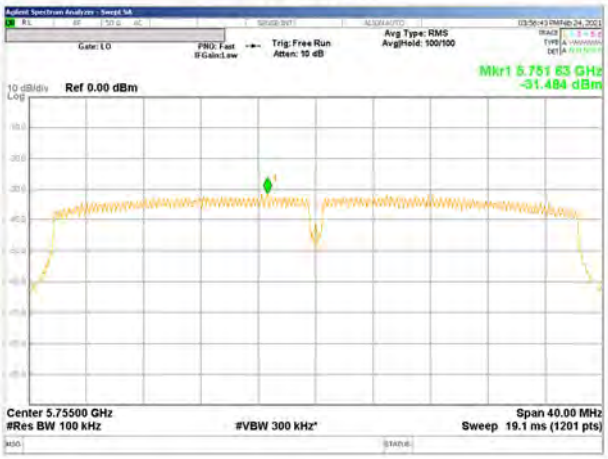
(Test model number: DNNS122)

11ac-40 MIMO, Chain 1

5190 MHz

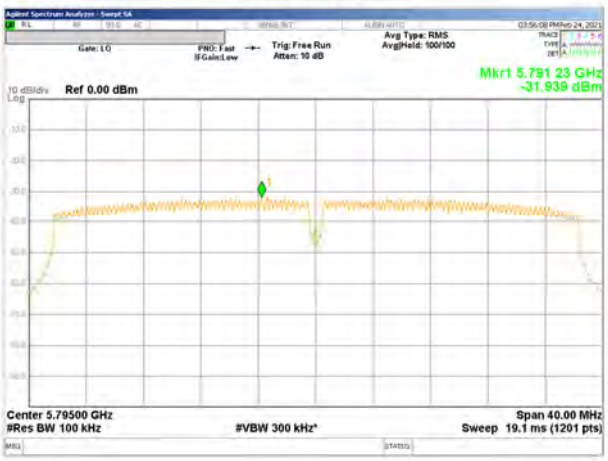


5755 MHz



5230 MHz

5795 MHz



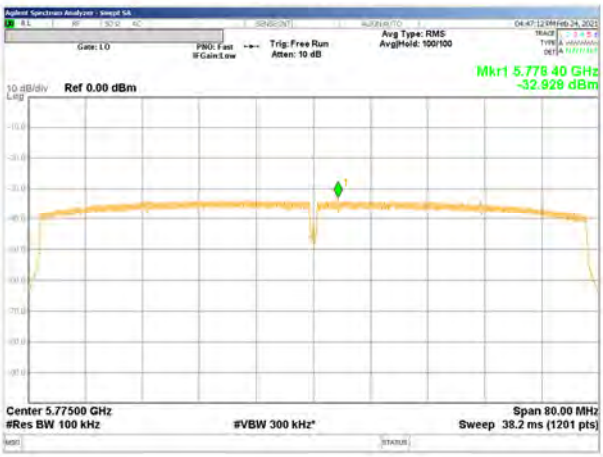
Maximum Power Spectral Density

(Test model number: DNNS122)

11ac-80 MIMO, Chain 0

5210 MHz

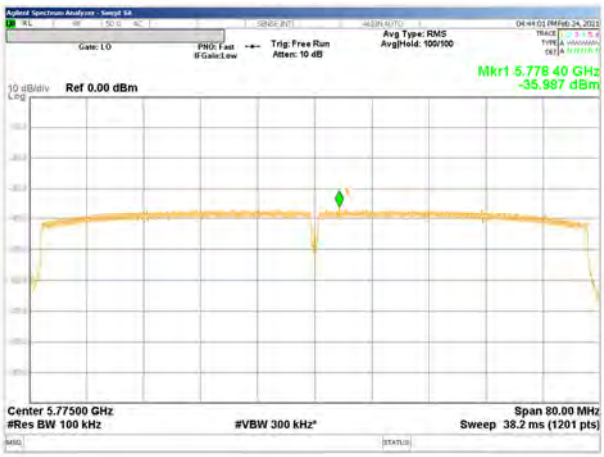
5775 MHz



11ac-80 MIMO, Chain 1

5210 MHz

5775 MHz



Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.2	No.2	No.2
Date	February 5, 2021	February 7, 2021	February 10, 2021
Temperature / Humidity	21 deg. C / 37 % RH	22 deg. C / 34 % RH	23 deg. C / 34 % RH
Engineer	Takahiro Suzuki	Yosuke Murakami	Hiromasa Sato
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 40 GHz)
Mode	Tx 11a 5180 MHz		

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	45.17	32.34	16.28	38.63	2.06	57.22	73.9	16.6	151	290	-
Hori.	15540.000	PK	46.16	39.51	11.75	37.21	-9.54	50.67	73.9	23.2	150	0	floor noise
Hori.	5150.000	AV	31.95	32.34	16.28	38.63	2.06	44.00	53.9	9.9	151	290	VBW:1.5kHz
Hori.	15540.000	AV	34.01	39.51	11.75	37.21	-9.54	38.52	53.9	15.3	150	0	VBW:1.5kHz, floor noise
Vert.	5150.000	PK	47.37	32.34	16.28	38.63	2.06	59.42	73.9	14.4	138	17	-
Vert.	15540.000	PK	45.52	39.51	11.75	37.21	-9.54	50.03	73.9	23.8	150	0	floor noise
Vert.	5150.000	AV	33.77	32.34	16.28	38.63	2.06	45.82	53.9	**8.0**	138	17	VBW:1.5kHz
Vert.	15540.000	AV	33.91	39.51	11.75	37.21	-9.54	38.42	53.9	15.4	150	0	VBW:1.5kHz, floor noise

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

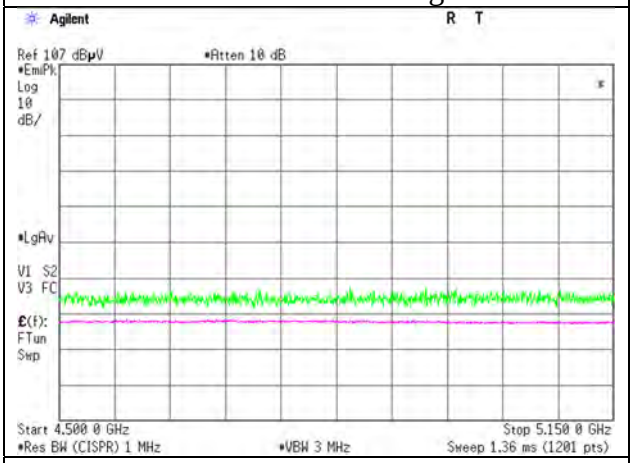
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10360.000	PK	47.51	36.35	9.42	40.03	-9.54	43.71	-51.52	-27.0	24.5	153	192	-
Vert.	10360.000	PK	46.34	36.35	9.42	40.03	-9.54	42.54	-52.69	-27.0	25.6	145	219	-

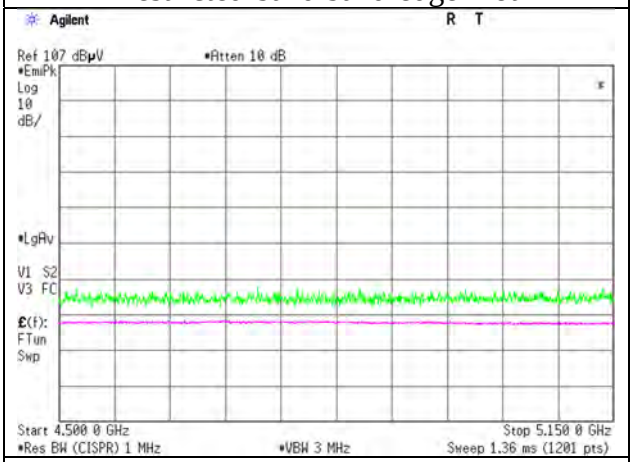
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 5, 2021
Temperature / Humidity	21 deg. C / 37 % RH
Engineer	Takahiro Suzuki
	(1 GHz – 6.4 GHz)
Mode	Tx 11a 5180 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.2	No.2	No.2
Date	February 5, 2021	February 7, 2021	February 10, 2021
Temperature / Humidity	21 deg. C / 37 % RH	22 deg. C / 34 % RH	23 deg. C / 34 % RH
Engineer	Takahiro Suzuki	Yosuke Murakami	Hiromasa Sato
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 40 GHz)
Mode	Tx 11a 5220 MHz		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	15660.000	PK	46.30	39.68	11.73	37.23	-9.54	50.94	73.9	22.9	150	0	floor noise
Hori.	15660.000	AV	35.23	39.68	11.73	37.23	-9.54	39.87	53.9	14.0	150	0	VBW:1.5 kHz, floor noise
Vert.	15660.000	PK	46.61	39.68	11.73	37.23	-9.54	51.25	73.9	22.6	150	0	floor noise
Vert.	15660.000	AV	35.47	39.68	11.73	37.23	-9.54	40.11	53.9	**13.7**	150	0	VBW:1.5 kHz, floor noise

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10440.000	PK	49.86	36.47	9.45	40.16	-9.54	46.08	-49.15	-27.0	22.1	151	181	-
Vert.	10440.000	PK	49.13	36.47	9.45	40.16	-9.54	45.35	-49.88	-27.0	22.8	153	193	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.2	No.2	No.2
Date	February 5, 2021	February 7, 2021	February 10, 2021
Temperature / Humidity	21 deg. C / 37 % RH	22 deg. C / 34 % RH	23 deg. C / 34 % RH
Engineer	Takahiro Suzuki	Yosuke Murakami	Hiromasa Sato
	(1 GHz – 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 40 GHz)
Mode	Tx 11a 5240 MHz		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	44.89	32.06	16.42	38.74	2.06	56.69	73.9	17.2	100	0	-
Hori.	15720.000	PK	46.89	39.76	11.71	37.24	-9.54	51.58	73.9	22.3	150	0	floor noise
Hori.	5350.000	AV	32.36	32.06	16.42	38.74	2.06	44.16	53.9	9.7	100	0	VBW:1.5 kHz
Hori.	15720.000	AV	34.95	39.76	11.71	37.24	-9.54	39.64	53.9	14.2	150	0	VBW:1.5 kHz, floor noise
Vert.	5350.000	PK	44.56	32.06	16.42	38.74	2.06	56.36	73.9	17.5	141	16	-
Vert.	15720.000	PK	46.73	39.76	11.71	37.24	-9.54	51.42	73.9	22.4	150	0	floor noise
Vert.	5350.000	AV	33.31	32.06	16.42	38.74	2.06	45.11	53.9	**8.7**	141	16	VBW:1.5 kHz
Vert.	15720.000	AV	34.97	39.76	11.71	37.24	-9.54	39.66	53.9	14.2	150	0	VBW:1.5 kHz, floor noise

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

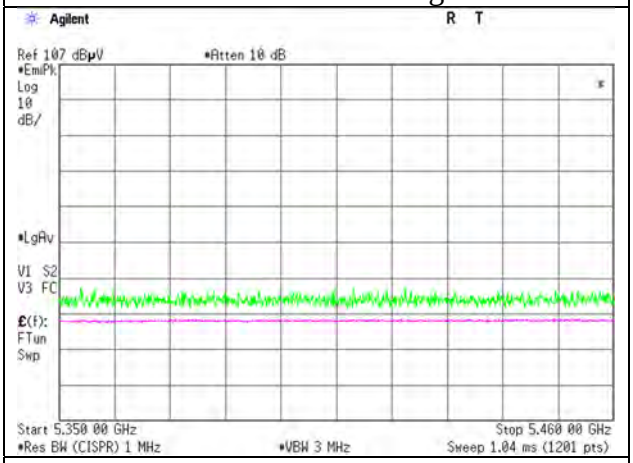
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10480.000	PK	47.97	36.57	9.46	40.22	-9.54	44.24	-50.99	-27.0	23.9	154	189	-
Vert.	10480.000	PK	48.92	36.57	9.46	40.22	-9.54	45.19	-50.04	-27.0	23.0	153	195	-

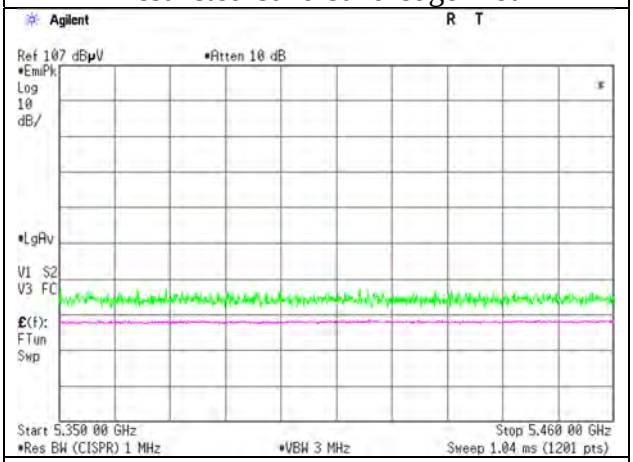
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 5, 2021
Temperature / Humidity	21 deg. C / 37 % RH
Engineer	Takahiro Suzuki
	(1 GHz – 6.4 GHz)
Mode	Tx 11a 5240 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission
(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.2	No.2	No.2
Date	February 5, 2021	February 7, 2021	February 10, 2021
Temperature / Humidity	21 deg. C / 37 % RH	22 deg. C / 34 % RH	23 deg. C / 34 % RH
Engineer	Takahiro Suzuki	Yosuke Murakami	Hiromasa Sato
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 40 GHz)
Mode	Tx 11a 5745 MHz		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11490.000	PK	51.74	37.98	9.92	40.08	-9.54	50.02	73.9	23.8	157	219	-
Hori.	11490.000	AV	40.33	37.98	9.92	40.08	-9.54	38.61	53.9	15.2	157	219	VBW:1.5 kHz
Vert.	11490.000	PK	52.51	37.98	9.92	40.08	-9.54	50.79	73.9	23.1	141	309	-
Vert.	11490.000	AV	41.54	37.98	9.92	40.08	-9.54	39.82	53.9	14.0	141	309	VBW:1.5 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

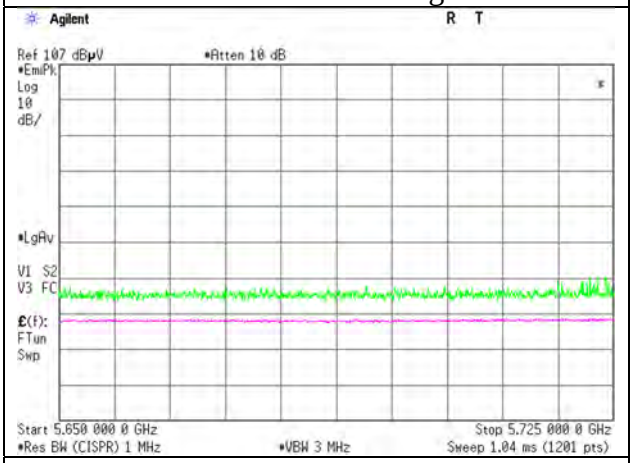
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	43.71	32.64	16.60	38.91	2.06	56.10	-39.13	-27.0	12.1	110	355	-
Hori.	5700.000	PK	45.29	32.71	16.62	38.93	2.06	57.75	-37.48	10.0	47.4	110	355	-
Hori.	5720.000	PK	45.86	32.75	16.63	38.94	2.06	58.36	-36.87	15.6	52.4	110	355	-
Hori.	5725.000	PK	49.48	32.77	16.64	38.94	2.06	62.01	-33.22	27.0	60.2	110	355	-
Hori.	17235.000	PK	45.55	39.94	12.68	37.25	-9.54	51.38	-43.85	-27.0	16.8	150	0	-
Vert.	5650.000	PK	46.23	32.64	16.60	38.91	2.06	58.62	-36.61	-27.0	**9.6**	136	129	-
Vert.	5700.000	PK	47.21	32.71	16.62	38.93	2.06	59.67	-35.56	10.0	45.5	136	129	-
Vert.	5720.000	PK	47.01	32.75	16.63	38.94	2.06	59.51	-35.72	15.6	51.3	136	129	-
Vert.	5725.000	PK	50.49	32.77	16.64	38.94	2.06	63.02	-32.21	27.0	59.2	136	129	-
Vert.	17235.000	PK	45.34	39.94	12.68	37.25	-9.54	51.17	-44.06	-27.0	17.0	150	0	-

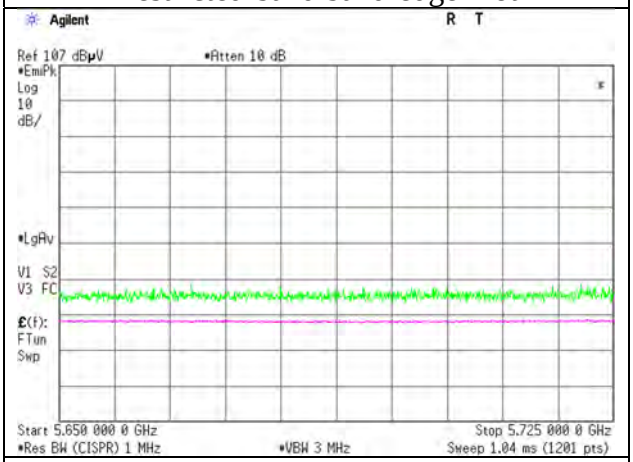
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 5, 2021
Temperature / Humidity	21 deg. C / 37 % RH
Engineer	Takahiro Suzuki
	(1 GHz – 6.4 GHz)
Mode	Tx 11a 5745 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C			
Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	No,2	No.2	No.2	No.2
Date	February 21, 2021	February 5, 2021	February 7, 2021	February 10, 2021
Temperature / Humidity	21 deg.C, 32 %RH	21 deg. C / 37 % RH	22 deg. C / 34 % RH	23 deg. C / 34 % RH
Engineer	Yusuke Tanikawara	Takahiro Suzuki	Yosuke Murakami	Hiromasa Sato
	(30 MHz -1 GHz)	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 40 GHz)
Mode	Tx 11a 5785 MHz			

(below 1 GHz and above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	63.870	QP	44.30	7.43	7.01	31.89	0.00	26.85	40.0	13.1	340	122	-
Hori.	213.636	QP	46.60	11.19	5.76	31.76	0.00	31.79	43.5	11.7	162	282	-
Hori.	286.033	QP	45.40	13.43	6.29	31.70	0.00	33.42	46.0	12.5	159	64	-
Hori.	317.124	QP	47.80	14.04	6.52	31.67	0.00	36.69	46.0	9.3	100	248	-
Hori.	362.735	QP	42.40	15.11	6.81	31.63	0.00	32.69	46.0	13.3	100	290	-
Hori.	479.995	QP	43.70	17.27	7.50	31.62	0.00	36.85	46.0	**9.1**	100	245	-
Hori.	11570.000	PK	51.10	38.06	9.96	40.13	-9.54	49.45	73.9	24.4	133	282	-
Hori.	11570.000	AV	40.23	38.06	9.96	40.13	-9.54	38.58	53.9	15.3	133	282	VBW:1.5kHz
Vert.	42.965	QP	37.70	13.79	7.12	31.91	0.00	26.70	40.0	13.3	100	1	-
Vert.	190.454	QP	36.40	16.36	8.88	31.89	0.00	29.75	43.5	13.7	100	293	-
Vert.	259.019	QP	49.70	12.12	6.10	31.71	0.00	36.21	46.0	9.7	100	248	-
Vert.	11570.000	PK	53.01	38.06	9.96	40.13	-9.54	51.36	73.9	22.5	144	311	-
Vert.	11570.000	AV	42.56	38.06	9.96	40.13	-9.54	40.91	53.9	12.9	144	311	VBW:1.5kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	17355.000	PK	45.87	40.15	12.68	37.31	-9.54	51.85	-43.38	-27.0	16.3	150	0	-
Vert.	17355.000	PK	46.52	40.15	12.68	37.31	-9.54	52.50	-42.73	-27.0	15.7	150	0	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission
(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.2	No.2	No.2
Date	February 5, 2021	February 7, 2021	February 10, 2021
Temperature / Humidity	21 deg. C / 37 % RH	22 deg. C / 34 % RH	23 deg. C / 34 % RH
Engineer	Takahiro Suzuki	Yosuke Murakami	Hiromasa Sato
	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 40 GHz)
Mode	Tx 11a 5825 MHz		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11650.000	PK	50.29	38.11	10.02	40.19	-9.54	48.69	73.9	25.2	152	285	-
Hori.	11650.000	AV	39.48	38.11	10.02	40.19	-9.54	37.88	53.9	16.0	152	285	VBW:1.5 kHz
Vert.	11650.000	PK	52.61	38.11	10.02	40.19	-9.54	51.01	73.9	22.8	142	311	-
Vert.	11650.000	AV	41.66	38.11	10.02	40.19	-9.54	40.06	53.9	13.8	142	311	VBW:1.5 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

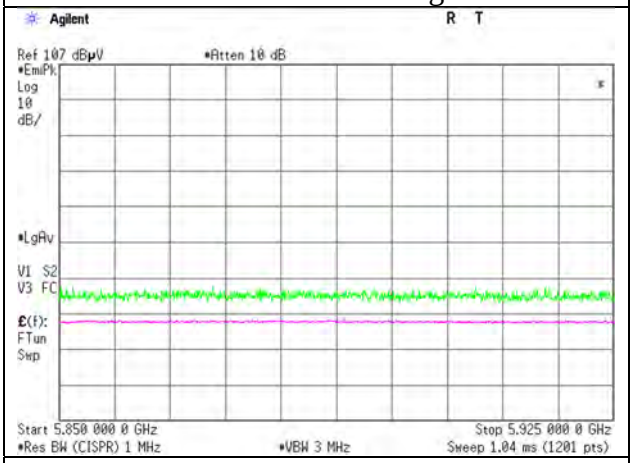
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	44.35	33.11	16.72	39.01	2.06	57.23	-38.00	27.0	65.0	137	356	-
Hori.	5855.000	PK	44.25	33.12	16.72	39.01	2.06	57.14	-38.09	15.6	53.6	137	356	-
Hori.	5875.000	PK	43.23	33.16	16.75	39.02	2.06	56.18	-39.05	10.0	49.0	137	356	-
Hori.	5925.000	PK	44.81	33.23	16.78	39.04	2.06	57.84	-37.39	-27.0	10.3	137	356	-
Hori.	17475.000	PK	45.51	40.25	12.67	37.37	-9.54	51.52	-43.71	-27.0	16.7	150	0	-
Vert.	5850.000	PK	44.52	33.11	16.72	39.01	2.06	57.40	-37.83	27.0	64.8	106	354	-
Vert.	5855.000	PK	44.53	33.12	16.72	39.01	2.06	57.42	-37.81	15.6	53.4	106	354	-
Vert.	5875.000	PK	44.65	33.16	16.75	39.02	2.06	57.60	-37.63	10.0	47.6	106	354	-
Vert.	5925.000	PK	45.06	33.23	16.78	39.04	2.06	58.09	-37.14	-27.0	**10.1**	106	354	-
Vert.	17475.000	PK	45.49	40.25	12.67	37.37	-9.54	51.50	-43.73	-27.0	16.7	150	0	-

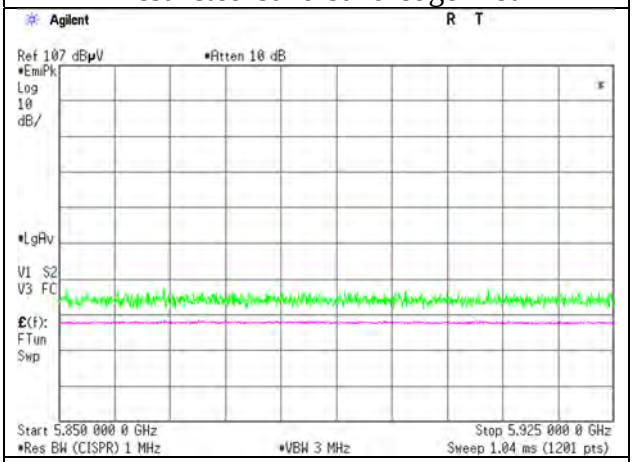
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 5, 2021
Temperature / Humidity	21 deg. C / 37 % RH
Engineer	Takahiro Suzuki
	(1 GHz – 6.4 GHz)
Mode	Tx 11a 5825 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-20 5180 MHz (SISO)

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

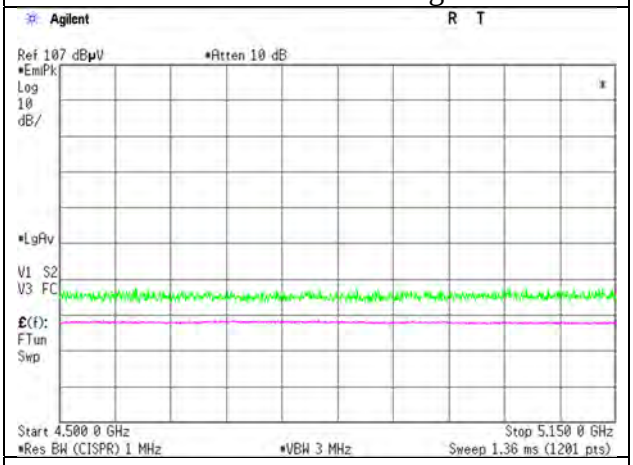
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	45.96	32.34	16.28	38.63	2.06	58.01	73.9	15.8	153	290	-
Hori.	5150.000	AV	33.69	32.34	16.28	38.63	2.06	45.74	53.9	**8.1**	153	290	VBW:1.5 kHz
Vert.	5150.000	PK	45.17	32.34	16.28	38.63	2.06	57.22	73.9	16.6	140	15	-
Vert.	5150.000	AV	33.65	32.34	16.28	38.63	2.06	45.70	53.9	8.2	140	15	VBW:1.5 kHz

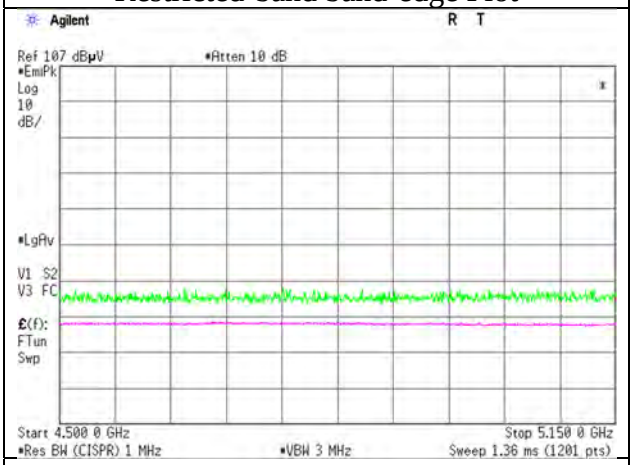
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-20 5180 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-20 5240 MHz (SISO)

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

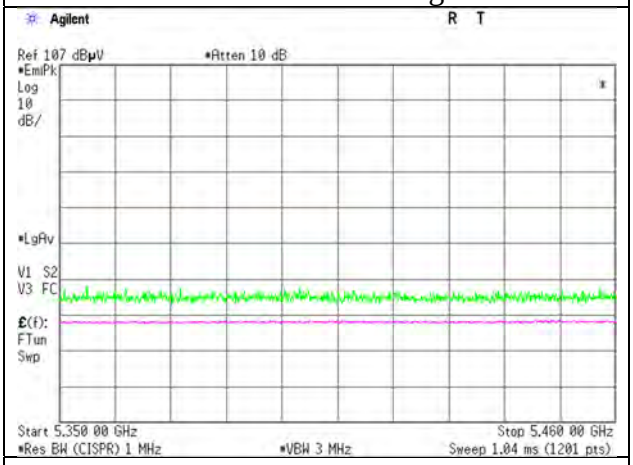
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	45.38	32.06	16.42	38.74	2.06	57.18	73.9	16.7	155	288	-
Hori.	5350.000	AV	33.87	32.06	16.42	38.74	2.06	45.67	53.9	**8.2**	155	288	VBW:1.5 kHz
Vert.	5350.000	PK	45.12	32.06	16.42	38.74	2.06	56.92	73.9	16.9	242	14	-
Vert.	5350.000	AV	33.84	32.06	16.42	38.74	2.06	45.64	53.9	**8.2**	242	14	VBW:1.5 kHz

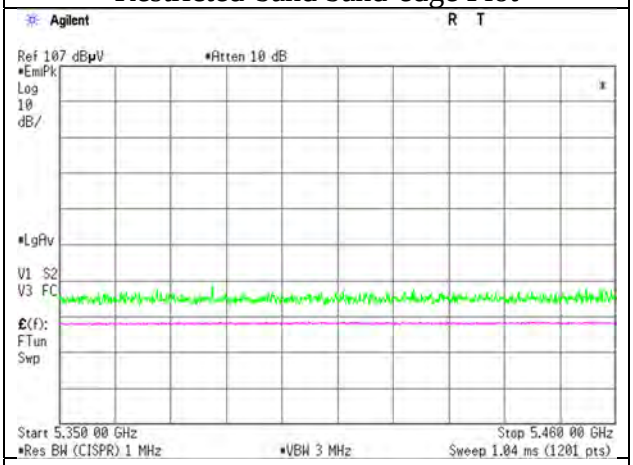
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-20 5240 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-20 5745 MHz (SISO)

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

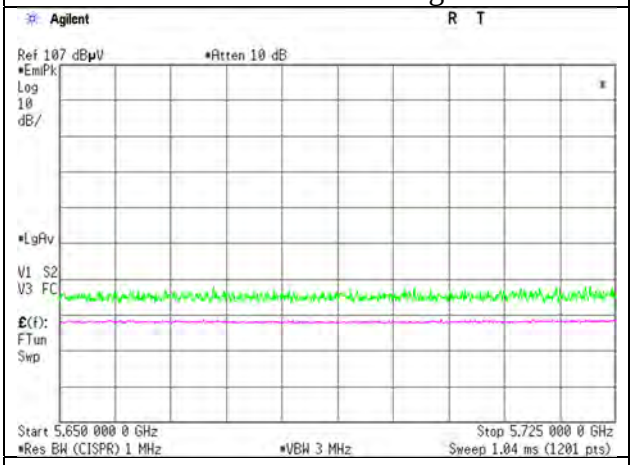
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	44.77	32.64	16.60	38.91	2.06	57.16	-38.07	-27.0	11.0	179	50	-
Hori.	5700.000	PK	45.27	32.71	16.62	38.93	2.06	57.73	-37.50	10.0	47.5	179	50	-
Hori.	5720.000	PK	47.49	32.75	16.63	38.94	2.06	59.99	-35.24	15.6	50.8	179	50	-
Hori.	5725.000	PK	47.84	32.77	16.64	38.94	2.06	60.37	-34.86	27.0	61.8	179	50	-
Vert.	5650.000	PK	45.58	32.64	16.60	38.91	2.06	57.97	-37.26	-27.0	**10.2**	156	127	-
Vert.	5700.000	PK	45.53	32.71	16.62	38.93	2.06	57.99	-37.24	10.0	47.2	156	127	-
Vert.	5720.000	PK	45.40	32.75	16.63	38.94	2.06	57.90	-37.33	15.6	52.9	156	127	-
Vert.	5725.000	PK	47.18	32.77	16.64	38.94	2.06	59.71	-35.52	27.0	62.5	156	127	-

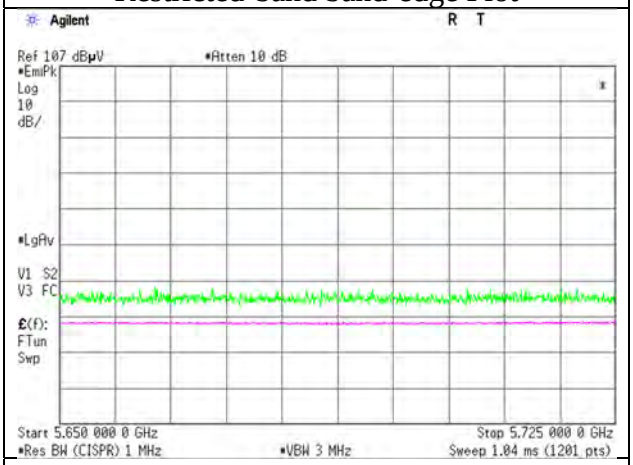
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-20 5745 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-20 5825 MHz (SISO)

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

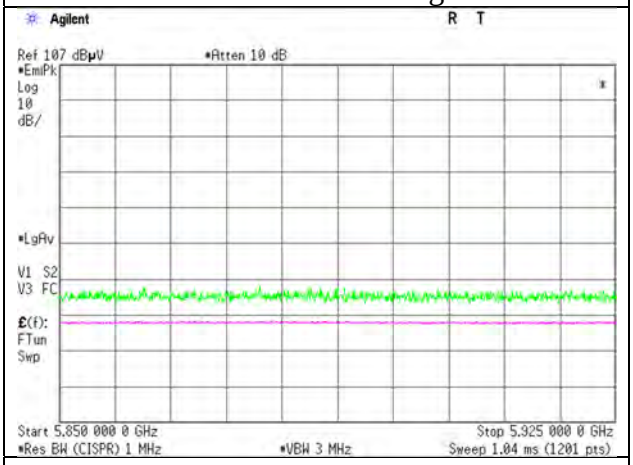
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	46.34	33.11	16.72	39.01	2.06	59.22	-36.01	27.0	63.0	146	357	-
Hori.	5855.000	PK	44.58	33.12	16.72	39.01	2.06	57.47	-37.76	15.6	53.3	146	357	-
Hori.	5875.000	PK	45.04	33.16	16.75	39.02	2.06	57.99	-37.24	10.0	47.2	146	357	-
Hori.	5925.000	PK	44.41	33.23	16.78	39.04	2.06	57.44	-37.79	-27.0	10.7	146	357	-
Vert.	5850.000	PK	45.89	33.11	16.72	39.01	2.06	58.77	-36.46	27.0	63.4	147	126	-
Vert.	5855.000	PK	45.42	33.12	16.72	39.01	2.06	58.31	-36.92	15.6	52.5	147	126	-
Vert.	5875.000	PK	45.50	33.16	16.75	39.02	2.06	58.45	-36.78	10.0	46.7	147	126	-
Vert.	5925.000	PK	44.81	33.23	16.78	39.04	2.06	57.84	-37.39	-27.0	**10.3**	147	126	-

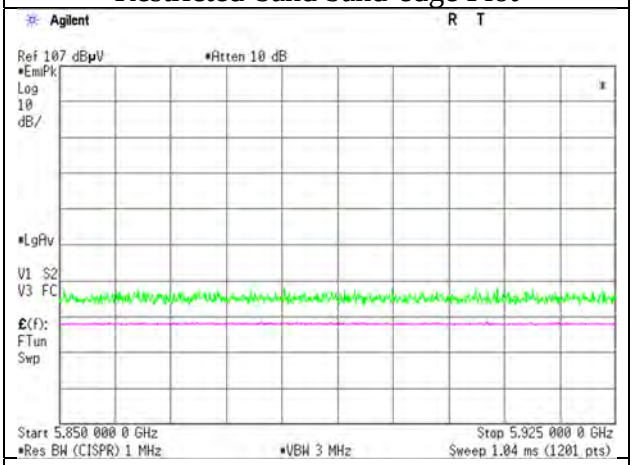
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-20 5825 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 5, 2021
Temperature / Humidity	21 deg. C / 37 % RH
Engineer	Takahiro Suzuki
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-20 5180 MHz (SISO)

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

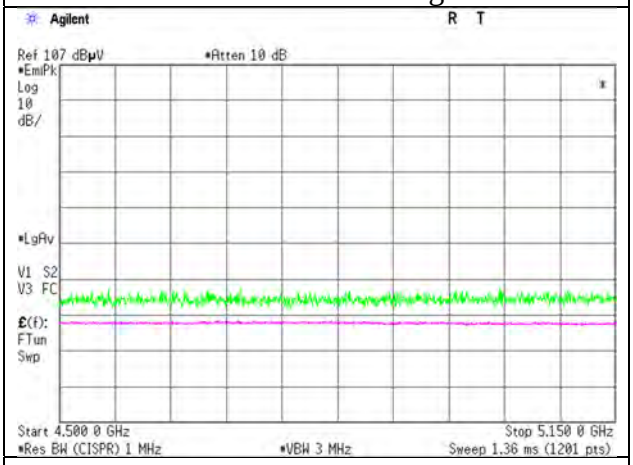
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	44.39	32.34	16.28	38.63	2.06	56.44	73.9	17.4	122	282	-
Hori.	5150.000	AV	32.14	32.34	16.28	38.63	2.06	44.19	53.9	9.7	122	282	VBW:1.5 kHz
Vert.	5150.000	PK	45.97	32.34	16.28	38.63	2.06	58.02	73.9	15.8	114	20	-
Vert.	5150.000	AV	32.24	32.34	16.28	38.63	2.06	44.29	53.9	**9.6**	114	20	VBW:1.5 kHz

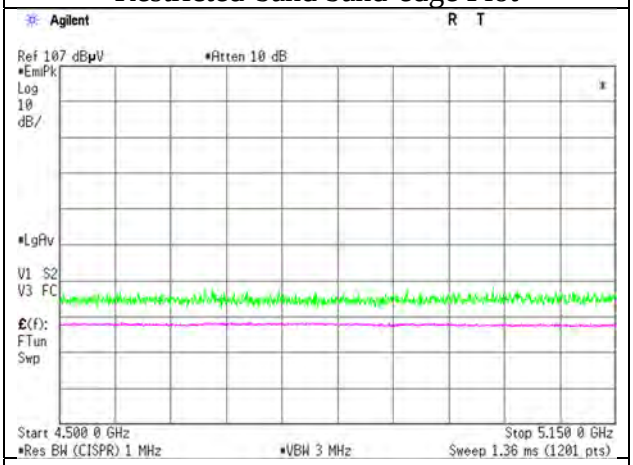
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 5, 2021
Temperature / Humidity	21 deg. C / 37 % RH
Engineer	Takahiro Suzuki
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-20 5180 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 5, 2021
Temperature / Humidity	21 deg. C / 37 % RH
Engineer	Takahiro Suzuki
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-20 5240 MHz (SISO)

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

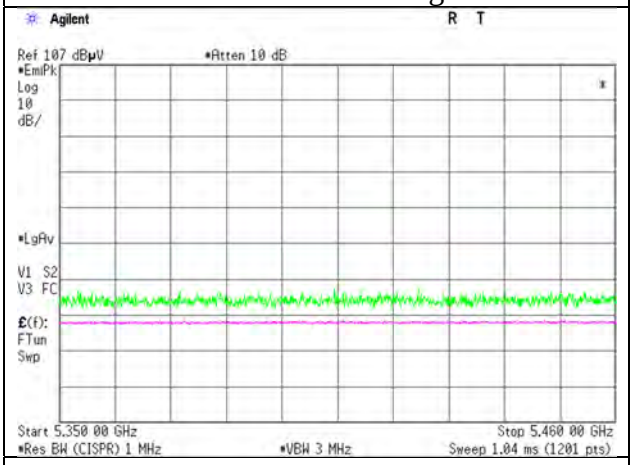
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	44.23	32.06	16.42	38.74	2.06	56.03	73.9	17.8	100	279	-
Hori.	5350.000	AV	32.14	32.06	16.42	38.74	2.06	43.94	53.9	9.9	100	279	VBW:1.5 kHz
Vert.	5350.000	PK	44.69	32.06	16.42	38.74	2.06	56.49	73.9	17.4	100	331	-
Vert.	5350.000	AV	32.38	32.06	16.42	38.74	2.06	44.18	53.9	**9.7**	100	331	VBW:1.5 kHz

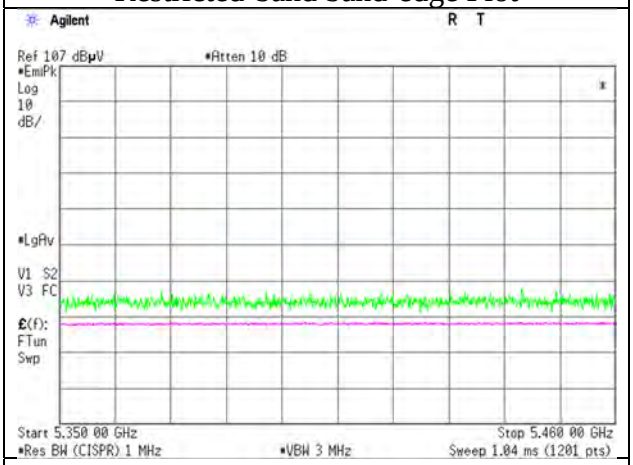
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 5, 2021
Temperature / Humidity	21 deg. C / 37 % RH
Engineer	Takahiro Suzuki
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-20 5240 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 5, 2021
Temperature / Humidity	21 deg. C / 37 % RH
Engineer	Takahiro Suzuki
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-20 5745 MHz (SISO)

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

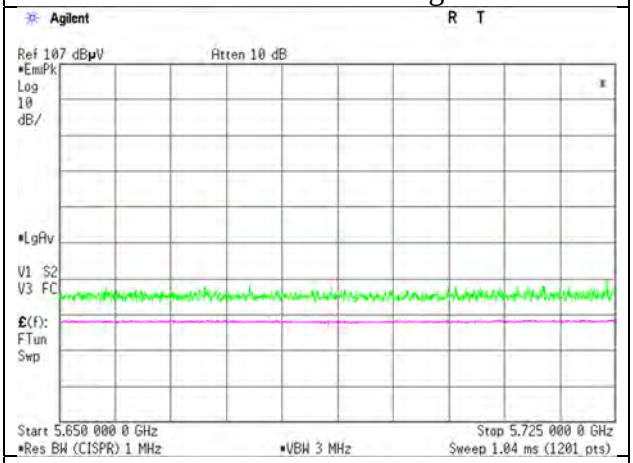
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	45.06	32.64	16.60	38.91	2.06	57.45	-37.78	-27.0	10.7	157	51	-
Hori.	5700.000	PK	45.40	32.71	16.62	38.93	2.06	57.86	-37.37	10.0	47.3	157	51	-
Hori.	5720.000	PK	45.87	32.75	16.63	38.94	2.06	58.37	-36.86	15.6	52.4	157	51	-
Hori.	5725.000	PK	48.90	32.77	16.64	38.94	2.06	61.43	-33.80	27.0	60.8	157	51	-
Vert.	5650.000	PK	45.16	32.64	16.60	38.91	2.06	57.55	-37.68	-27.0	**10.6**	152	127	-
Vert.	5700.000	PK	45.45	32.71	16.62	38.93	2.06	57.91	-37.32	10.0	47.3	152	127	-
Vert.	5720.000	PK	45.55	32.75	16.63	38.94	2.06	58.05	-37.18	15.6	52.7	152	127	-
Vert.	5725.000	PK	46.93	32.77	16.64	38.94	2.06	59.46	-35.77	27.0	62.7	152	127	-

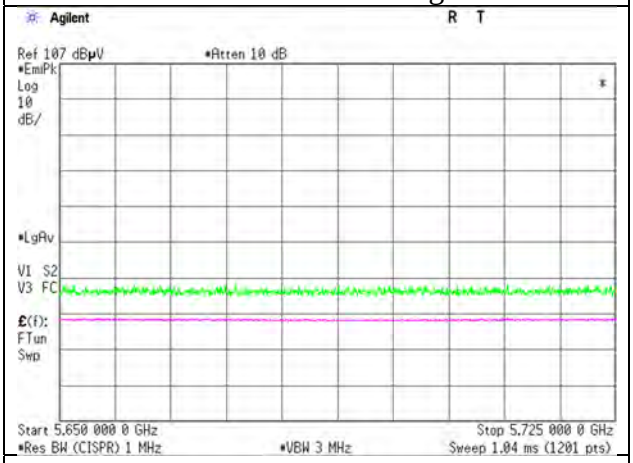
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 5, 2021
Temperature / Humidity	21 deg. C / 37 % RH
Engineer	Takahiro Suzuki
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-20 5745 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 5, 2021
Temperature / Humidity	21 deg. C / 37 % RH
Engineer	Takahiro Suzuki
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-20 5825 MHz (SISO)

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

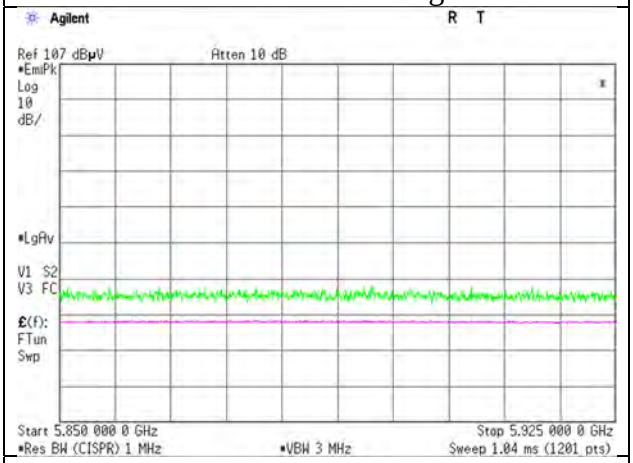
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	45.52	33.11	16.72	39.01	2.06	58.40	-36.83	27.0	63.8	146	356	-
Hori.	5855.000	PK	45.95	33.12	16.72	39.01	2.06	58.84	-36.39	15.6	51.9	146	356	-
Hori.	5875.000	PK	45.45	33.16	16.75	39.02	2.06	58.40	-36.83	10.0	46.8	146	356	-
Hori.	5925.000	PK	44.94	33.23	16.78	39.04	2.06	57.97	-37.26	-27.0	10.2	146	356	-
Vert.	5850.000	PK	46.08	33.11	16.72	39.01	2.06	58.96	-36.27	27.0	63.2	146	128	-
Vert.	5855.000	PK	45.15	33.12	16.72	39.01	2.06	58.04	-37.19	15.6	52.7	146	128	-
Vert.	5875.000	PK	45.36	33.16	16.75	39.02	2.06	58.31	-36.92	10.0	46.9	146	128	-
Vert.	5925.000	PK	45.02	33.23	16.78	39.04	2.06	58.05	-37.18	-27.0	**10.1**	100	128	-

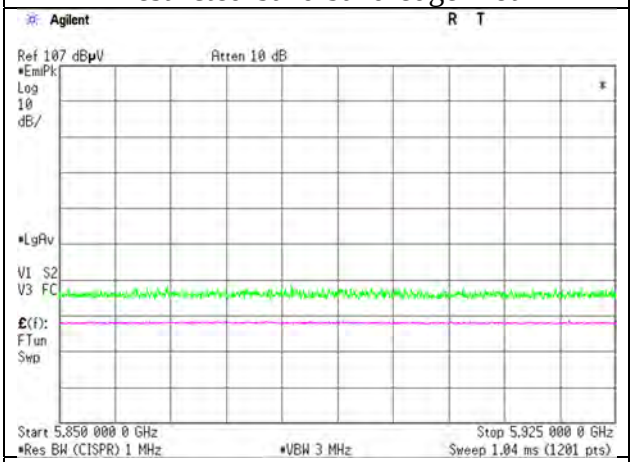
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 5, 2021
Temperature / Humidity	21 deg. C / 37 % RH
Engineer	Takahiro Suzuki
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-20 5825 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5190 MHz (SISO)

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

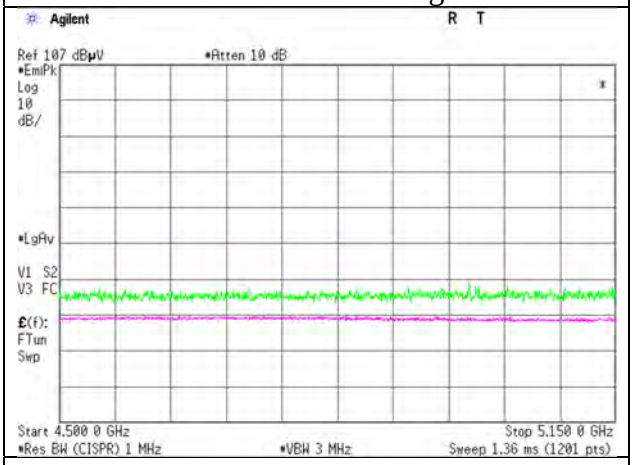
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	45.05	32.34	16.28	38.63	2.06	57.10	73.9	16.8	155	290	-
Hori.	5150.000	AV	35.06	32.34	16.28	38.63	2.06	47.11	53.9	**6.7**	155	290	VBW:5.6 kHz
Vert.	5150.000	PK	45.60	32.34	16.28	38.63	2.06	57.65	73.9	16.2	137	17	-
Vert.	5150.000	AV	34.90	32.34	16.28	38.63	2.06	46.95	53.9	6.9	137	17	VBW:5.6 kHz

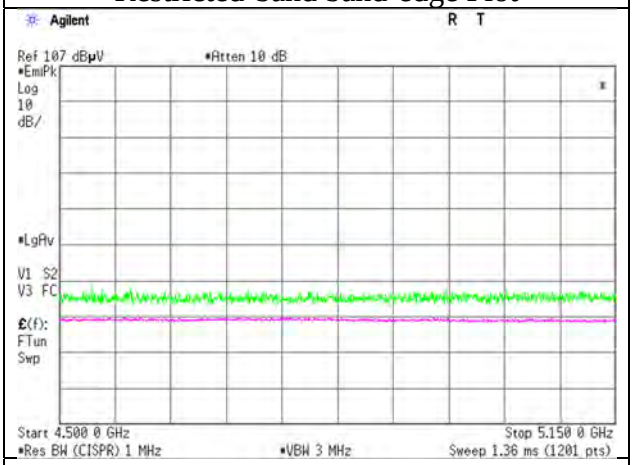
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5190 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5230 MHz (SISO)

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

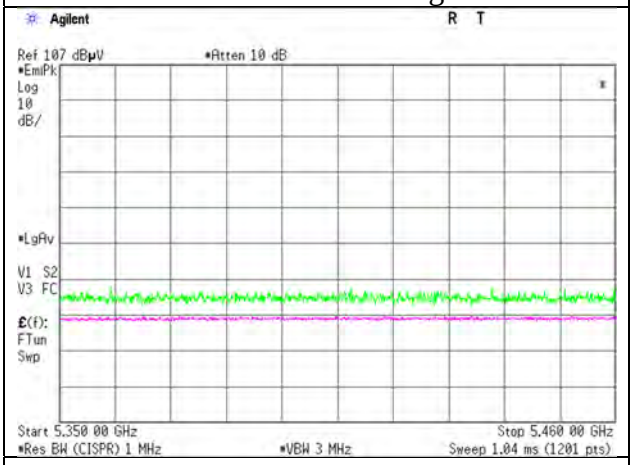
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	44.56	32.06	16.42	38.74	2.06	56.36	73.9	17.5	154	289	-
Hori.	5350.000	AV	35.27	32.06	16.42	38.74	2.06	47.07	53.9	6.8	154	289	VBW:5.6 kHz
Vert.	5350.000	PK	45.85	32.06	16.42	38.74	2.06	57.65	73.9	16.2	257	15	-
Vert.	5350.000	AV	35.39	32.06	16.42	38.74	2.06	47.19	53.9	**6.7**	257	15	VBW:5.6 kHz

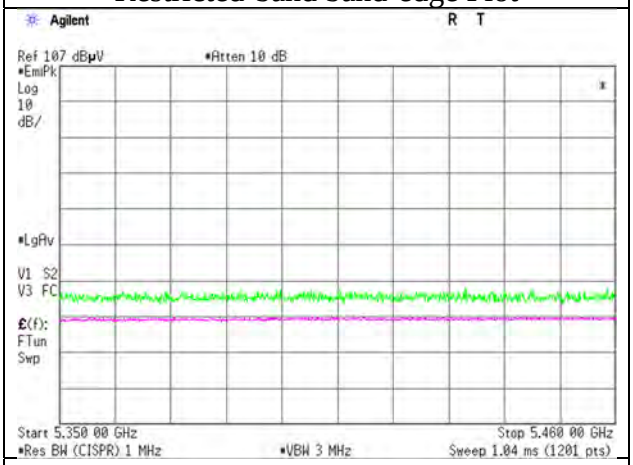
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5230 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5755 MHz (SISO)

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

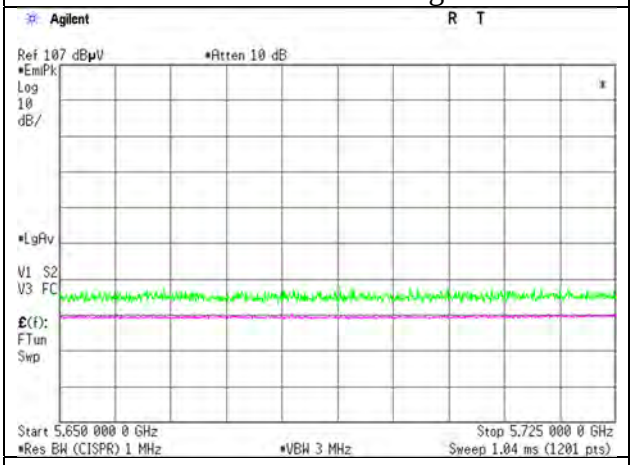
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	45.43	32.64	16.60	38.91	2.06	57.82	-37.41	-27.0	10.4	103	356	-
Hori.	5700.000	PK	45.81	32.71	16.62	38.93	2.06	58.27	-36.96	10.0	46.9	103	356	-
Hori.	5720.000	PK	45.60	32.75	16.63	38.94	2.06	58.10	-37.13	15.6	52.7	103	356	-
Hori.	5725.000	PK	46.03	32.77	16.64	38.94	2.06	58.56	-36.67	27.0	63.6	103	356	-
Vert.	5650.000	PK	45.54	32.64	16.60	38.91	2.06	57.93	-37.30	-27.0	**10.3**	149	127	-
Vert.	5700.000	PK	45.16	32.71	16.62	38.93	2.06	57.62	-37.61	10.0	47.6	149	127	-
Vert.	5720.000	PK	45.04	32.75	16.63	38.94	2.06	57.54	-37.69	15.6	53.2	149	127	-
Vert.	5725.000	PK	45.09	32.77	16.64	38.94	2.06	57.62	-37.61	27.0	64.6	149	127	-

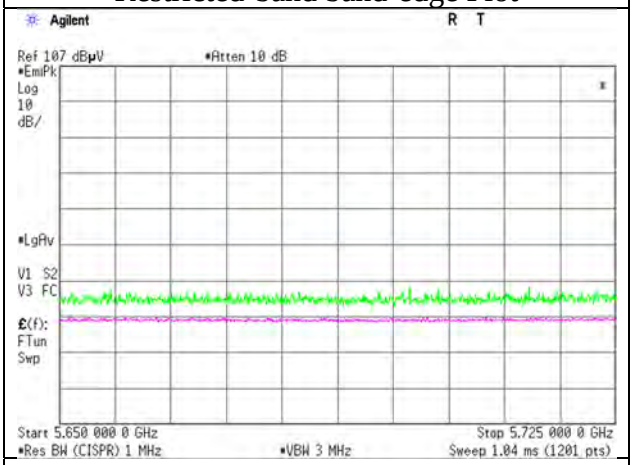
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5755 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5795 MHz (SISO)

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

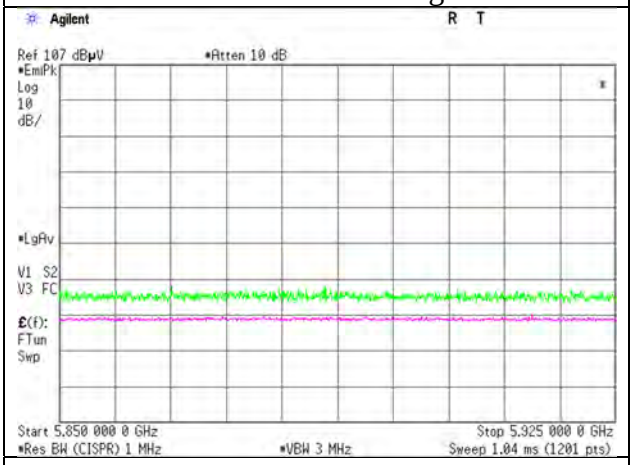
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	45.31	33.11	16.72	39.01	2.06	58.19	-37.04	27.0	64.0	159	353	-
Hori.	5855.000	PK	45.66	33.12	16.72	39.01	2.06	58.55	-36.68	15.6	52.2	159	353	-
Hori.	5875.000	PK	45.18	33.16	16.75	39.02	2.06	58.13	-37.10	10.0	47.1	159	353	-
Hori.	5925.000	PK	45.91	33.23	16.78	39.04	2.06	58.94	-36.29	-27.0	**9.2**	159	353	-
Vert.	5850.000	PK	45.06	33.11	16.72	39.01	2.06	57.94	-37.29	27.0	64.2	154	353	-
Vert.	5855.000	PK	45.81	33.12	16.72	39.01	2.06	58.70	-36.53	15.6	52.1	154	353	-
Vert.	5875.000	PK	45.40	33.16	16.75	39.02	2.06	58.35	-36.88	10.0	46.8	154	353	-
Vert.	5925.000	PK	45.47	33.23	16.78	39.04	2.06	58.50	-36.73	-27.0	9.7	154	353	-

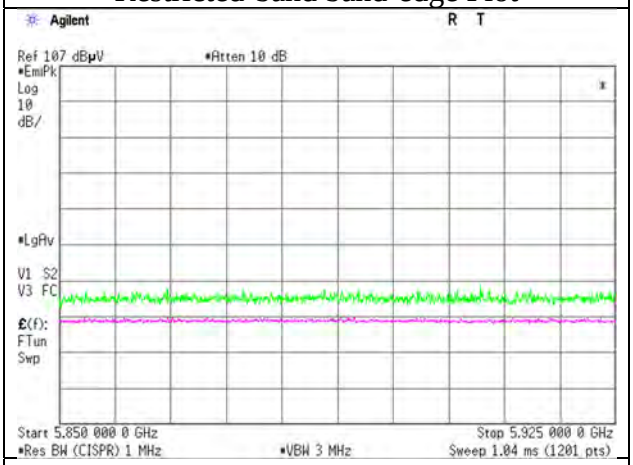
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 6, 2021
Temperature / Humidity	22 deg. C / 34 % RH
Engineer	Yohsuke Matsuzawa
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5795 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 8, 2021
Temperature / Humidity	22 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-40 5190 MHz (SISO)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

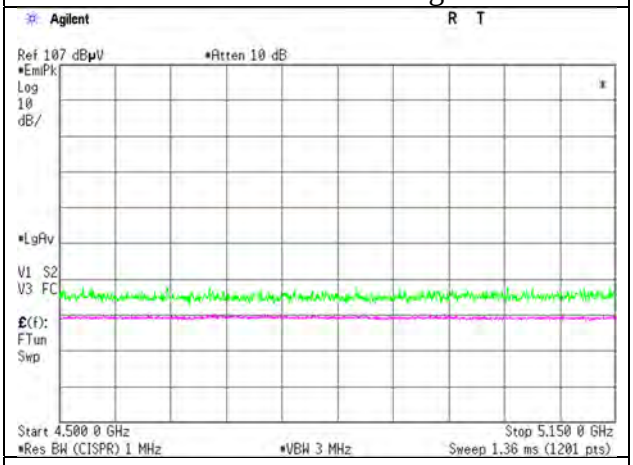
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	44.95	32.34	16.28	38.63	2.06	57.00	73.9	16.9	152	282	-
Hori.	5150.000	AV	35.33	32.34	16.28	38.63	2.06	47.38	53.9	6.5	152	282	VBW:7.5 kHz
Vert.	5150.000	PK	45.00	32.34	16.28	38.63	2.06	57.05	73.9	16.8	143	330	-
Vert.	5150.000	AV	35.40	32.34	16.28	38.63	2.06	47.45	53.9	**6.4**	143	330	VBW:7.5 kHz

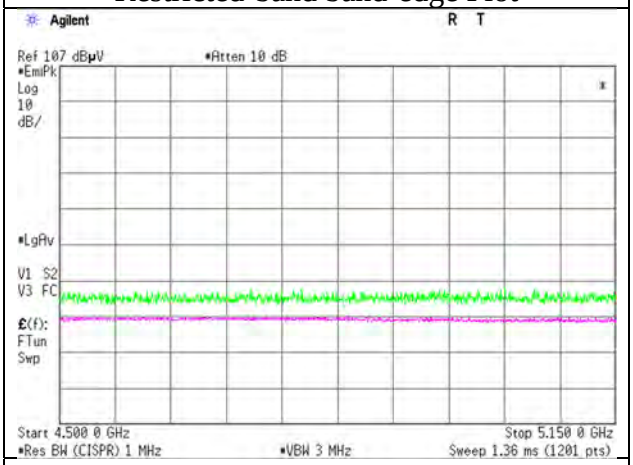
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 8, 2021
Temperature / Humidity	22 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-40 5190 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 8, 2021
Temperature / Humidity	22 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-40 5230 MHz (SISO)

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

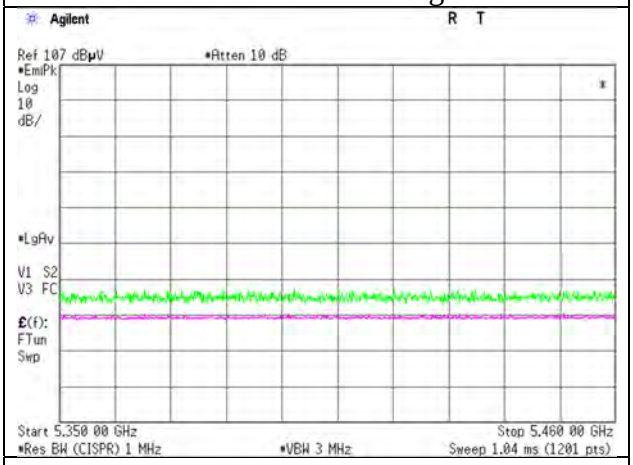
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	45.26	32.06	16.42	38.74	2.06	57.06	73.9	16.8	139	283	-
Hori.	5350.000	AV	35.52	32.06	16.42	38.74	2.06	47.32	53.9	**6.5**	139	283	VBW:7.5 kHz
Vert.	5350.000	PK	45.89	32.06	16.42	38.74	2.06	57.69	73.9	16.2	147	330	-
Vert.	5350.000	AV	35.29	32.06	16.42	38.74	2.06	47.09	53.9	6.8	147	330	VBW:7.5 kHz

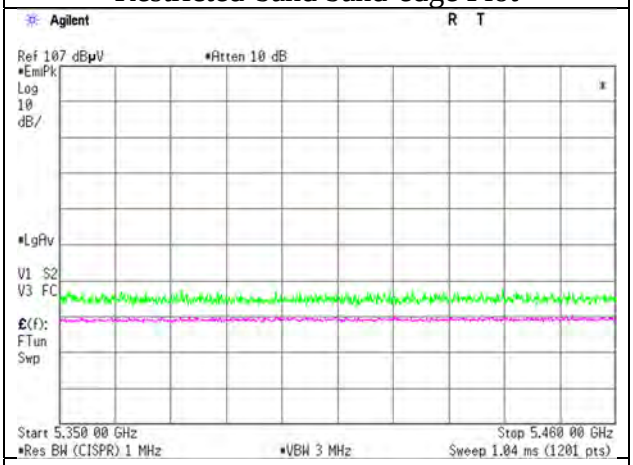
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 8, 2021
Temperature / Humidity	22 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-40 5230 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 8, 2021
Temperature / Humidity	22 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-40 5755 MHz (SISO)

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

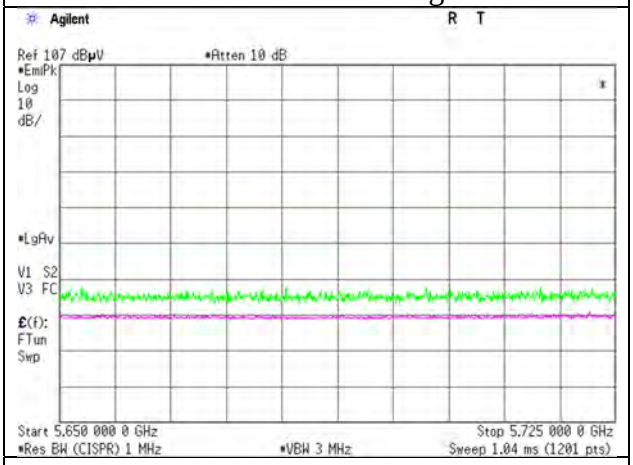
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	45.17	32.64	16.60	38.91	2.06	57.56	-37.67	-27.0	10.6	152	354	-
Hori.	5700.000	PK	45.36	32.71	16.62	38.93	2.06	57.82	-37.41	10.0	47.4	152	354	-
Hori.	5720.000	PK	45.79	32.75	16.63	38.94	2.06	58.29	-36.94	15.6	52.5	152	354	-
Hori.	5725.000	PK	45.98	32.77	16.64	38.94	2.06	58.51	-36.72	27.0	63.7	152	354	-
Vert.	5650.000	PK	45.92	32.64	16.60	38.91	2.06	58.31	-36.92	-27.0	**9.9**	140	351	-
Vert.	5700.000	PK	45.68	32.71	16.62	38.93	2.06	58.14	-37.09	10.0	47.0	140	351	-
Vert.	5720.000	PK	45.25	32.75	16.63	38.94	2.06	57.75	-37.48	15.6	53.0	140	351	-
Vert.	5725.000	PK	45.90	32.77	16.64	38.94	2.06	58.43	-36.80	27.0	63.8	140	351	-

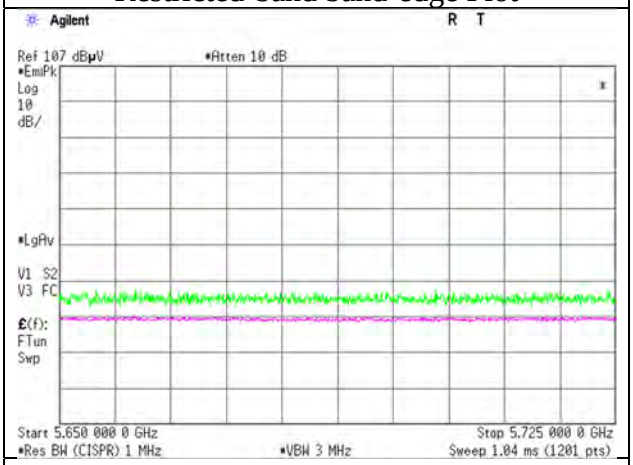
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 8, 2021
Temperature / Humidity	22 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-40 5755 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 8, 2021
Temperature / Humidity	22 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-40 5795 MHz (SISO)

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

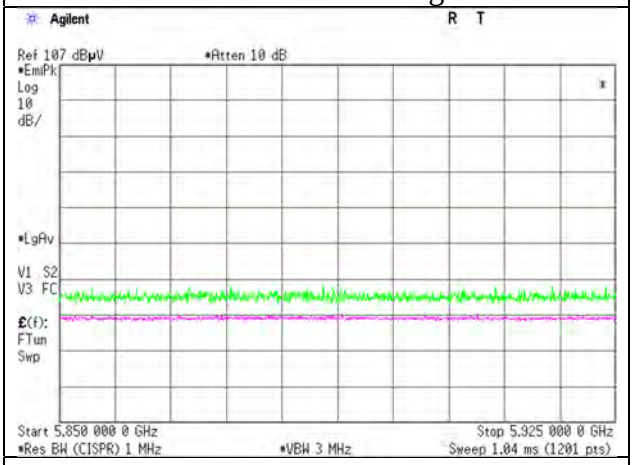
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	44.75	33.11	16.72	39.01	2.06	57.63	-37.60	27.0	64.6	152	355	-
Hori.	5855.000	PK	44.27	33.12	16.72	39.01	2.06	57.16	-38.07	15.6	53.6	152	355	-
Hori.	5875.000	PK	45.28	33.16	16.75	39.02	2.06	58.23	-37.00	10.0	47.0	152	355	-
Hori.	5925.000	PK	45.33	33.23	16.78	39.04	2.06	58.36	-36.87	-27.0	9.8	152	355	-
Vert.	5850.000	PK	45.21	33.11	16.72	39.01	2.06	58.09	-37.14	27.0	64.1	153	355	-
Vert.	5855.000	PK	45.06	33.12	16.72	39.01	2.06	57.95	-37.28	15.6	52.8	153	355	-
Vert.	5875.000	PK	45.70	33.16	16.75	39.02	2.06	58.65	-36.58	10.0	46.5	153	355	-
Vert.	5925.000	PK	45.60	33.23	16.78	39.04	2.06	58.63	-36.60	-27.0	**9.6**	153	355	-

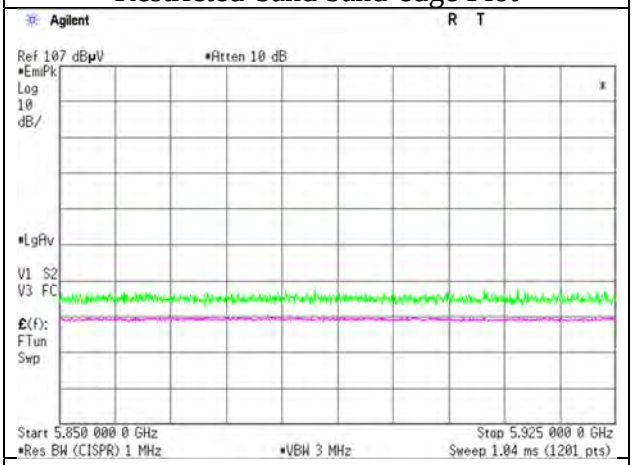
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 8, 2021
Temperature / Humidity	22 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-40 5795 MHz (SISO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 11, 2021
Temperature / Humidity	24 deg. C / 31 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-80 5210 MHz (SISO)

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

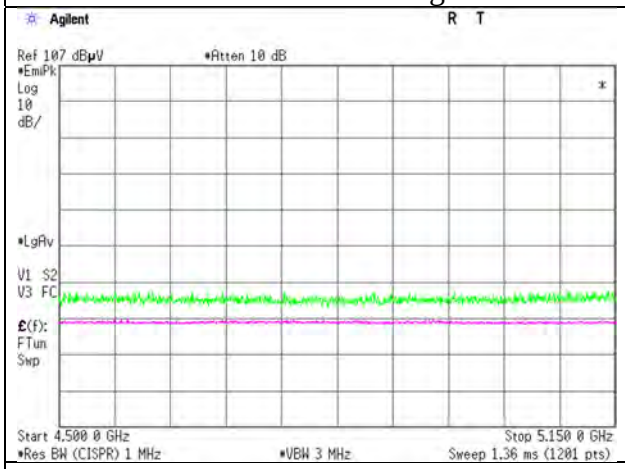
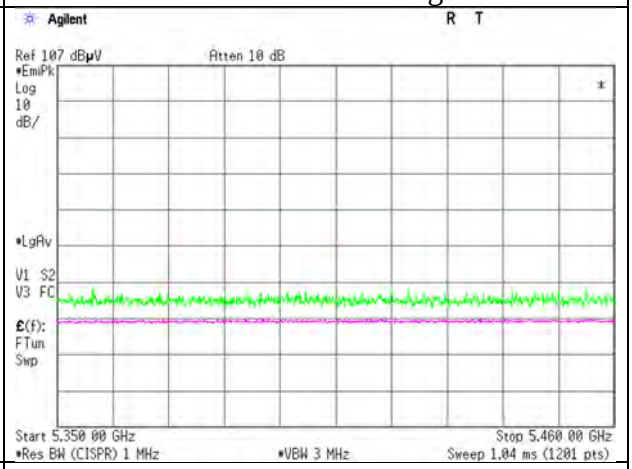
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	45.52	32.34	16.28	38.63	2.06	57.57	73.9	16.3	148	283	-
Hori.	5350.000	PK	45.29	32.06	16.42	38.74	2.06	57.09	73.9	16.8	148	283	-
Hori.	5150.000	AV	35.19	32.34	16.28	38.63	2.06	47.24	53.9	**6.6**	148	283	VBW:5.6 kHz
Hori.	5350.000	AV	35.23	32.06	16.42	38.74	2.06	47.03	53.9	6.8	148	283	VBW:5.6 kHz
Vert.	5150.000	PK	44.79	32.34	16.28	38.63	2.06	56.84	73.9	17.0	148	332	-
Vert.	5350.000	PK	45.09	32.06	16.42	38.74	2.06	56.89	73.9	17.0	148	332	-
Vert.	5150.000	AV	35.14	32.34	16.28	38.63	2.06	47.19	53.9	6.7	148	332	VBW:5.6 kHz
Vert.	5350.000	AV	35.27	32.06	16.42	38.74	2.06	47.07	53.9	6.8	148	332	VBW:5.6 kHz

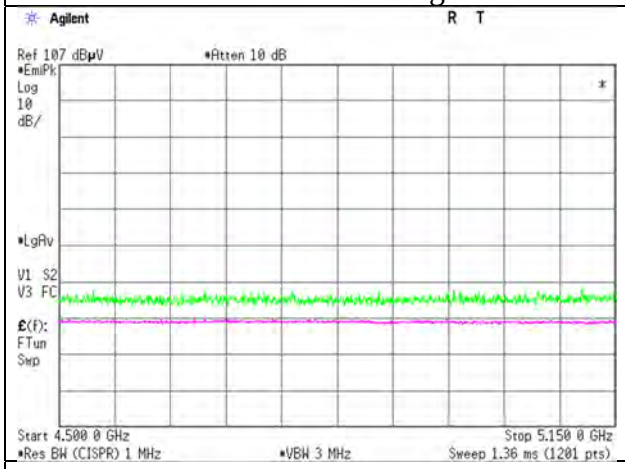
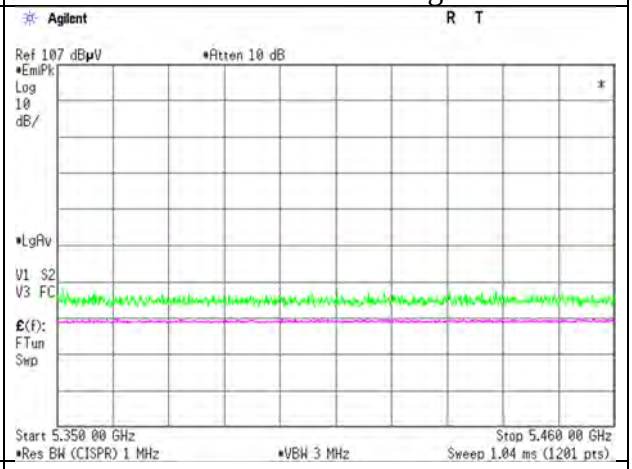
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 8, 2021
Temperature / Humidity	22 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-80 5210 MHz (SISO)

Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 11, 2021
Temperature / Humidity	24 deg. C / 31 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-80 5775 MHz (SISO)

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

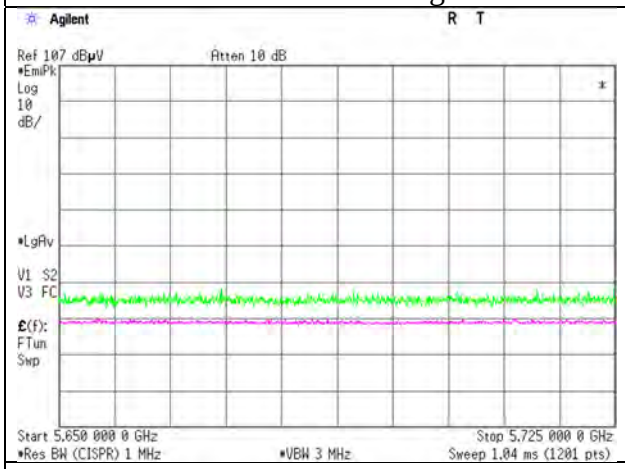
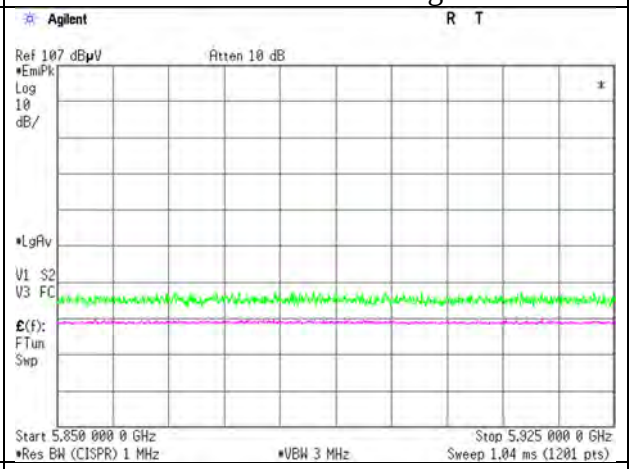
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	45.73	32.64	16.60	38.91	2.06	58.12	-37.11	-27.0	10.1	155	355	-
Hori.	5700.000	PK	45.58	32.71	16.62	38.93	2.06	58.04	-37.19	10.0	47.1	155	355	-
Hori.	5720.000	PK	45.92	32.75	16.63	38.94	2.06	58.42	-36.81	15.6	52.4	155	355	-
Hori.	5725.000	PK	46.28	32.77	16.64	38.94	2.06	58.81	-36.42	27.0	63.4	155	355	-
Hori.	5850.000	PK	45.51	33.11	16.72	39.01	2.06	58.39	-36.84	27.0	63.8	155	355	-
Hori.	5855.000	PK	45.22	33.12	16.72	39.01	2.06	58.11	-37.12	15.6	52.7	155	355	-
Hori.	5875.000	PK	45.87	33.16	16.75	39.02	2.06	58.82	-36.41	10.0	46.4	155	355	-
Hori.	5925.000	PK	45.32	33.23	16.78	39.04	2.06	58.35	-36.88	-27.0	**9.8**	155	355	-
Vert.	5650.000	PK	45.37	32.64	16.60	38.91	2.06	57.76	-37.47	-27.0	10.4	148	350	-
Vert.	5700.000	PK	45.21	32.71	16.62	38.93	2.06	57.67	-37.56	10.0	47.5	148	350	-
Vert.	5720.000	PK	45.41	32.75	16.63	38.94	2.06	57.91	-37.32	15.6	52.9	148	350	-
Vert.	5725.000	PK	45.85	32.77	16.64	38.94	2.06	58.38	-36.85	27.0	63.8	148	350	-
Vert.	5850.000	PK	45.03	33.11	16.72	39.01	2.06	57.91	-37.32	27.0	64.3	148	350	-
Vert.	5855.000	PK	45.49	33.12	16.72	39.01	2.06	58.38	-36.85	15.6	52.4	148	350	-
Vert.	5875.000	PK	45.13	33.16	16.75	39.02	2.06	58.08	-37.15	10.0	47.1	148	350	-
Vert.	5925.000	PK	45.30	33.23	16.78	39.04	2.06	58.33	-36.90	-27.0	9.9	148	350	-

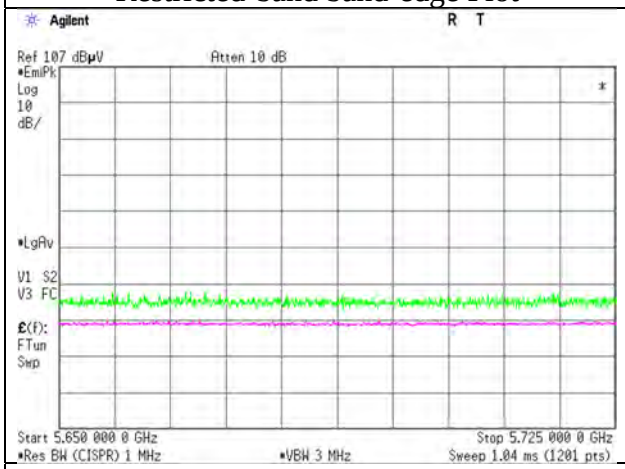
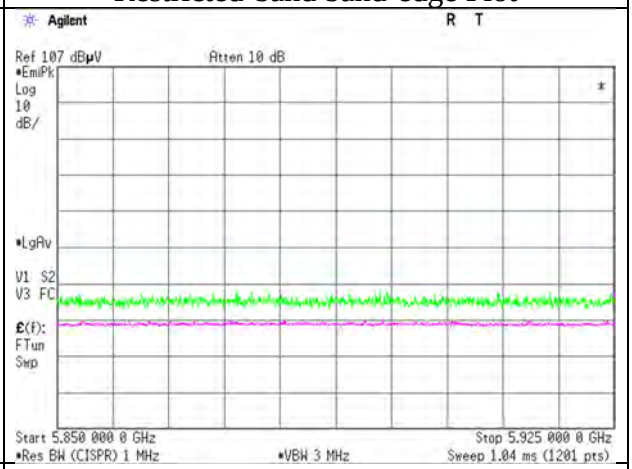
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 11, 2021
Temperature / Humidity	24 deg. C / 31 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-80 5775 MHz (SISO)

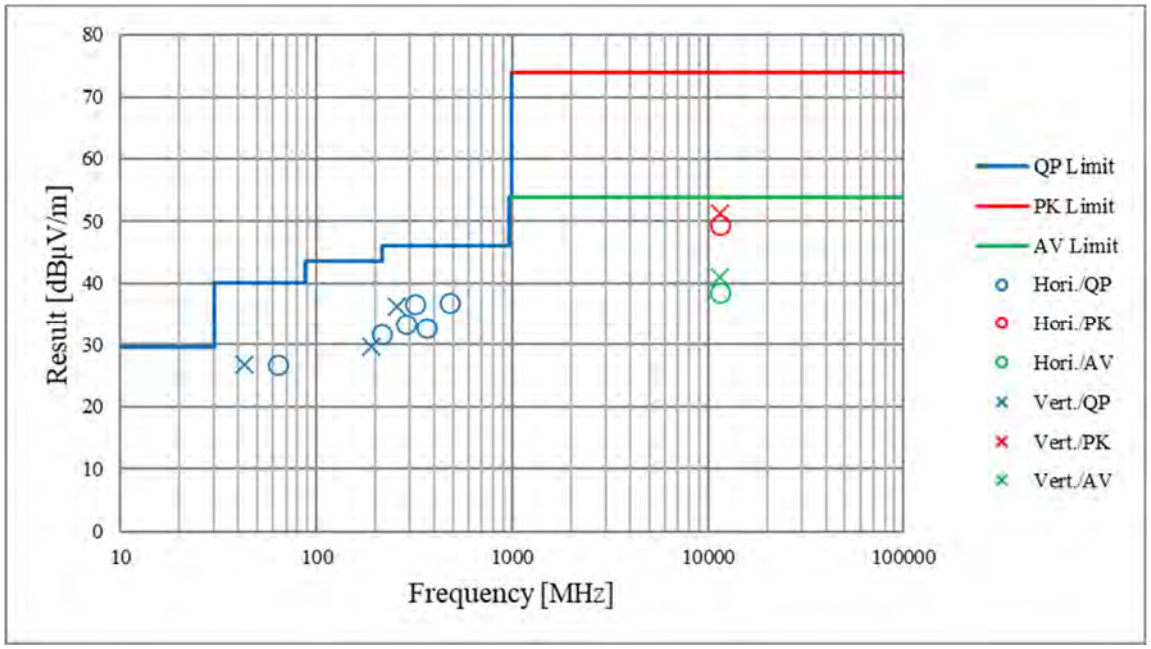
Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission
(Plot data, Worst case for SISO)
(Test model number: DNNS122)

Report No.	14071795S-C			
Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	No,2	No.2	No.2	No.2
Date	February 21, 2021	February 5, 2021	February 7, 2021	February 10, 2021
Temperature / Humidity	21 deg.C, 32 %RH	21 deg. C / 37 % RH	22 deg. C / 34 % RH	23 deg. C / 34 % RH
Engineer	Yusuke Tanikawara	Takahiro Suzuki	Yosuke Murakami	Hiromasa Sato
	(30 MHz -1 GHz)	(1 GHz - 10 GHz)	(10 GHz - 18 GHz)	(18 GHz - 40 GHz)
Mode	Tx 11a 5785 MHz			



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

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 22, 2021
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Toshinori Yamada
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-20 5180 MHz (MIMO)

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

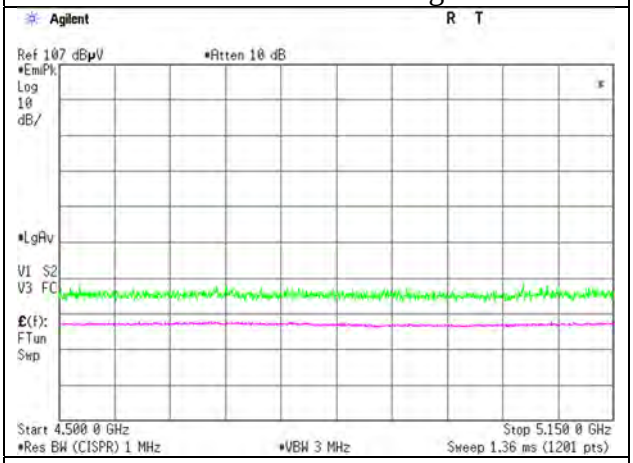
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	45.55	32.34	16.28	38.63	2.06	57.60	73.9	16.3	176	4	-
Hori.	5150.000	AV	34.32	32.34	16.28	38.63	2.06	46.37	53.9	**7.5**	176	4	VBW:3 kHz
Vert.	5150.000	PK	45.41	32.34	16.28	38.63	2.06	57.46	73.9	16.4	140	329	-
Vert.	5150.000	AV	34.23	32.34	16.28	38.63	2.06	46.28	53.9	7.6	140	329	VBW:3 kHz

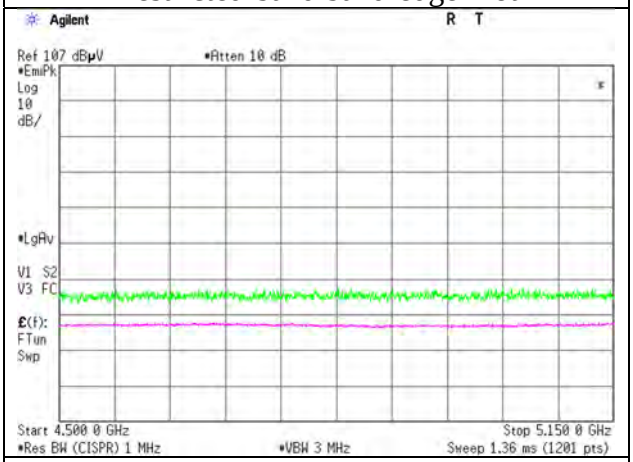
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 22, 2021
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Toshinori Yamada
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-20 5180 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 22, 2021
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Toshinori Yamada
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-20 5240 MHz (MIMO)

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

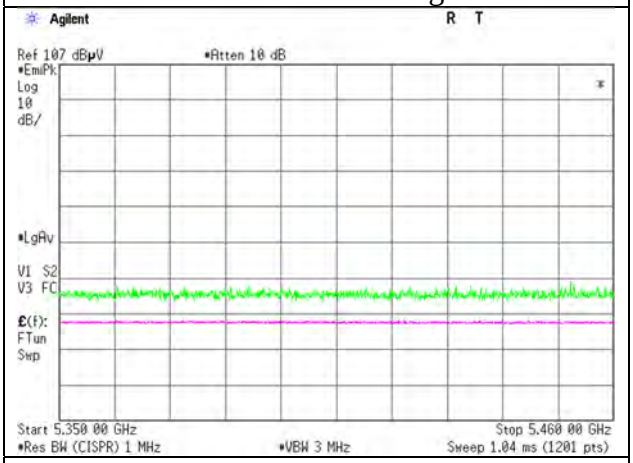
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	45.47	32.06	16.42	38.74	2.06	57.27	73.9	16.6	174	287	-
Hori.	5350.000	AV	34.70	32.06	16.42	38.74	2.06	46.50	53.9	**7.4**	174	287	VBW:3 kHz
Vert.	5350.000	PK	45.35	32.06	16.42	38.74	2.06	57.15	73.9	16.7	139	328	-
Vert.	5350.000	AV	34.55	32.06	16.42	38.74	2.06	46.35	53.9	7.5	139	328	VBW:3 kHz

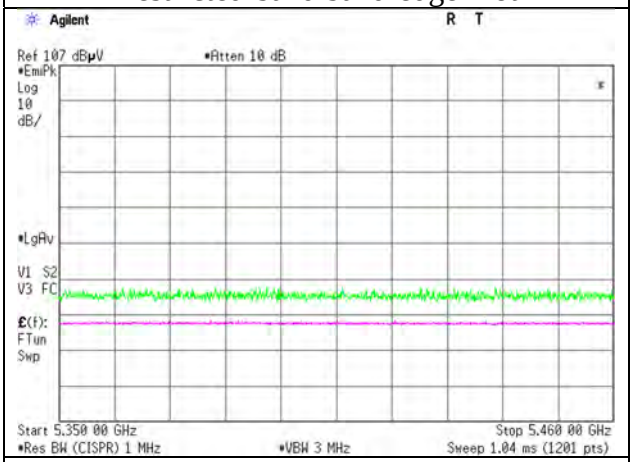
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 22, 2021
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Toshinori Yamada
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-20 5240 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 22, 2021
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Toshinori Yamada
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-20 5745 MHz (MIMO)

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

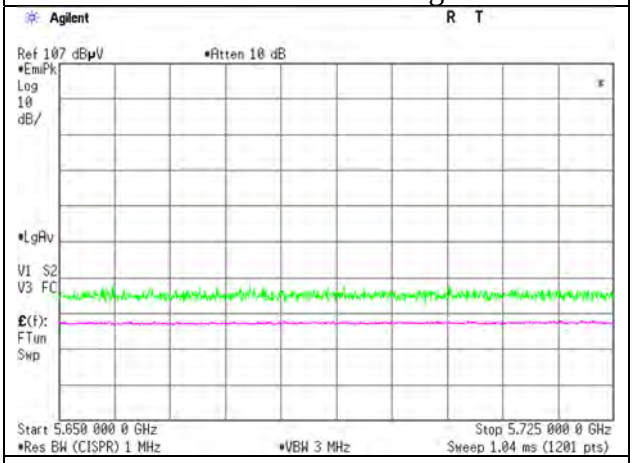
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	46.06	32.64	16.60	38.91	2.06	58.45	-36.78	-27.0	**9.7**	149	1	-
Hori.	5700.000	PK	46.03	32.71	16.62	38.93	2.06	58.49	-36.74	10.0	46.7	149	1	-
Hori.	5720.000	PK	45.94	32.75	16.63	38.94	2.06	58.44	-36.79	15.6	52.3	149	1	-
Hori.	5725.000	PK	46.00	32.77	16.64	38.94	2.06	58.53	-36.70	27.0	63.7	149	1	-
Vert.	5650.000	PK	45.53	32.64	16.60	38.91	2.06	57.92	-37.31	-27.0	10.3	264	339	-
Vert.	5700.000	PK	45.99	32.71	16.62	38.93	2.06	58.45	-36.78	10.0	46.7	264	339	-
Vert.	5720.000	PK	45.81	32.75	16.63	38.94	2.06	58.31	-36.92	15.6	52.5	264	339	-
Vert.	5725.000	PK	45.61	32.77	16.64	38.94	2.06	58.14	-37.09	27.0	64.0	264	339	-

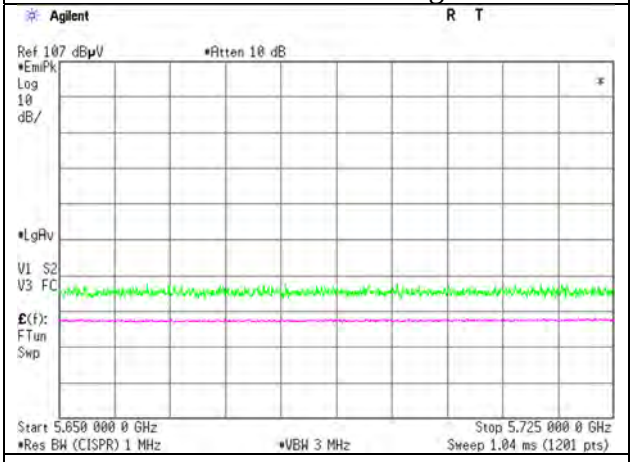
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 22, 2021
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Toshinori Yamada
Mode	Tx 11n-20 5745 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 22, 2021
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Toshinori Yamada
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-20 5825 MHz (MIMO)

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

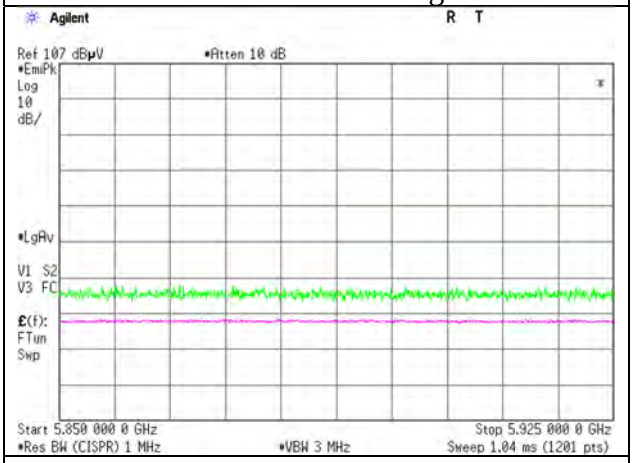
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	44.97	33.11	16.72	39.01	2.06	57.85	-37.38	27.0	64.3	151	1	-
Hori.	5855.000	PK	45.12	33.12	16.72	39.01	2.06	58.01	-37.22	15.6	52.8	151	1	-
Hori.	5875.000	PK	45.49	33.16	16.75	39.02	2.06	58.44	-36.79	10.0	46.7	151	1	-
Hori.	5925.000	PK	45.77	33.23	16.78	39.04	2.06	58.80	-36.43	-27.0	9.4	151	1	-
Vert.	5850.000	PK	45.36	33.11	16.72	39.01	2.06	58.24	-36.99	27.0	63.9	149	344	-
Vert.	5855.000	PK	45.40	33.12	16.72	39.01	2.06	58.29	-36.94	15.6	52.5	149	344	-
Vert.	5875.000	PK	45.60	33.16	16.75	39.02	2.06	58.55	-36.68	10.0	46.6	149	344	-
Vert.	5925.000	PK	45.89	33.23	16.78	39.04	2.06	58.92	-36.31	-27.0	**9.3**	149	344	-

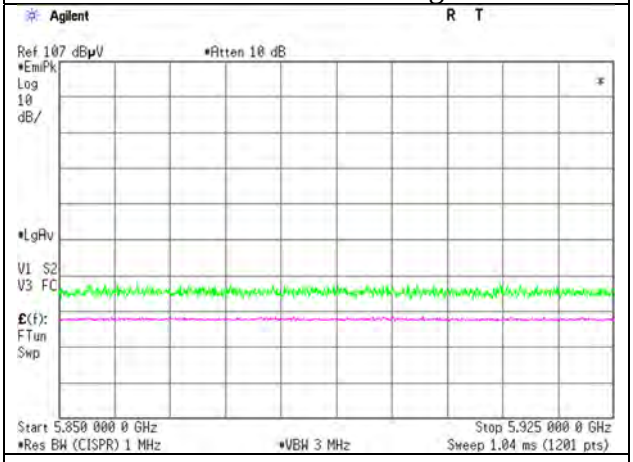
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 22, 2021
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Toshinori Yamada
Mode	Tx 11n-20 5825 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission
(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.2	No.2	No.3
Date	February 22, 2021	February 26, 2021	March 5, 2021
Temperature / Humidity	22 deg. C / 32 % RH	27 deg. C / 38 % RH	22 deg. C / 35 % RH
Engineer	Toshinori Yamada	Takahiro Suzuki	Hiromasa Sato
	(1 GHz – 10 GHz)	(10 GHz – 26.5 GHz)	(26.5 GHz – 40 GHz)
Mode	Tx 11ac-20 5180 MHz (MIMO)		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	44.26	32.34	16.28	38.63	2.06	56.31	73.9	17.5	162	19	-
Hori.	15540.000	PK	45.62	39.51	11.34	37.21	-9.54	49.72	73.9	24.1	135	32	-
Hori.	5150.000	AV	34.95	32.34	16.28	38.63	2.06	47.00	53.9	**6.9**	162	19	VBW:3 kHz
Hori.	15540.000	AV	35.03	39.51	11.34	37.21	-9.54	39.13	53.9	14.7	135	32	VBW:3 kHz
Vert.	5150.000	PK	45.52	32.34	16.28	38.63	2.06	57.57	73.9	16.3	100	0	-
Vert.	15540.000	PK	46.56	39.51	11.34	37.21	-9.54	50.66	73.9	23.2	133	331	-
Vert.	5150.000	AV	34.00	32.34	16.28	38.63	2.06	46.05	53.9	7.8	100	0	VBW:3 kHz
Vert.	15540.000	AV	34.72	39.51	11.34	37.21	-9.54	38.82	53.9	15.0	133	331	VBW:3 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

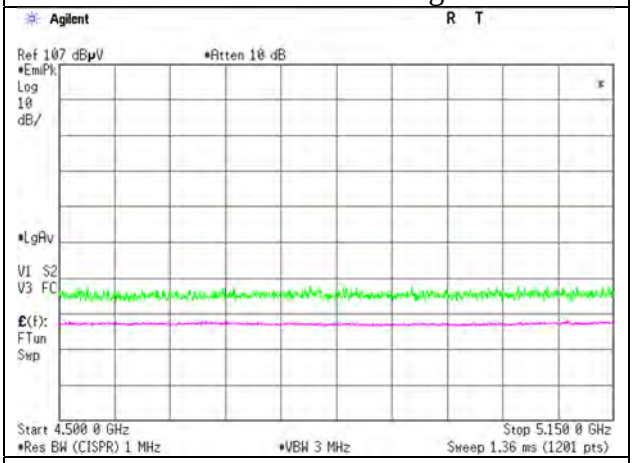
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10360.000	PK	48.36	36.35	9.03	40.03	-9.54	44.17	-51.06	-27.0	24.0	151	201	-
Vert.	10360.000	PK	49.61	36.35	9.03	40.03	-9.54	45.42	-49.81	-27.0	22.8	143	149	-

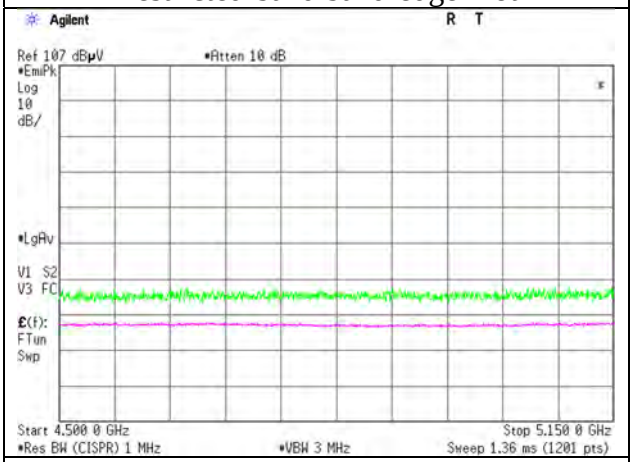
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 22, 2021
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Toshinori Yamada
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-20 5180 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission
(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.2	No.2	No.3
Date	February 22, 2021	February 26, 2021	March 5, 2021
Temperature / Humidity	22 deg. C / 32 % RH	27 deg. C / 38 % RH	22 deg. C / 35 % RH
Engineer	Toshinori Yamada	Takahiro Suzuki	Hiromasa Sato
	(1 GHz – 10 GHz)	(10 GHz – 26.5 GHz)	(26.5 GHz – 40 GHz)
Mode	Tx 11ac-20 5220 MHz (MIMO)		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	15660.000	PK	45.84	39.68	11.34	37.23	-9.54	50.09	73.9	23.8	137	39	-
Hori.	15660.000	AV	34.62	39.68	11.34	37.23	-9.54	38.87	53.9	**15.0**	137	39	VBW:3kHz
Vert.	15660.000	PK	47.06	39.68	11.34	37.23	-9.54	51.31	73.9	22.5	135	328	-
Vert.	15660.000	AV	34.36	39.68	11.34	37.23	-9.54	38.61	53.9	15.2	135	328	VBW:3kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10440.000	PK	49.13	36.47	9.06	40.16	-9.54	44.96	-50.27	-27.0	23.2	151	192	-
Vert.	10440.000	PK	49.22	36.47	9.06	40.16	-9.54	45.05	-50.18	-27.0	23.1	153	148	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission
(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.2	No.2	No.3
Date	February 22, 2021	February 26, 2021	March 5, 2021
Temperature / Humidity	22 deg. C / 32 % RH	27 deg. C / 38 % RH	22 deg. C / 35 % RH
Engineer	Toshinori Yamada	Takahiro Suzuki	Hiromasa Sato
	(1 GHz – 10 GHz)	(10 GHz – 26.5 GHz)	(26.5 GHz – 40 GHz)
Mode	Tx 11ac-20 5240 MHz (MIMO)		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	45.03	32.06	16.42	38.74	2.06	56.83	73.9	17.0	166	282	-
Hori.	15720.000	PK	46.07	39.76	11.33	37.24	-9.54	50.38	73.9	23.5	133	37	-
Hori.	5350.000	AV	34.46	32.06	16.42	38.74	2.06	46.26	53.9	7.6	166	282	VBW:3 kHz
Hori.	15720.000	AV	34.29	39.76	11.33	37.24	-9.54	38.60	53.9	15.3	133	37	VBW:3 kHz
Vert.	5350.000	PK	45.38	32.06	16.42	38.74	2.06	57.18	73.9	16.7	145	326	-
Vert.	15720.000	PK	45.99	39.76	11.33	37.24	-9.54	50.30	73.9	23.6	136	330	-
Vert.	5350.000	AV	34.67	32.06	16.42	38.74	2.06	46.47	53.9	**7.4**	145	326	VBW:3 kHz
Vert.	15720.000	AV	34.47	39.76	11.33	37.24	-9.54	38.78	53.9	15.1	136	330	VBW:3 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

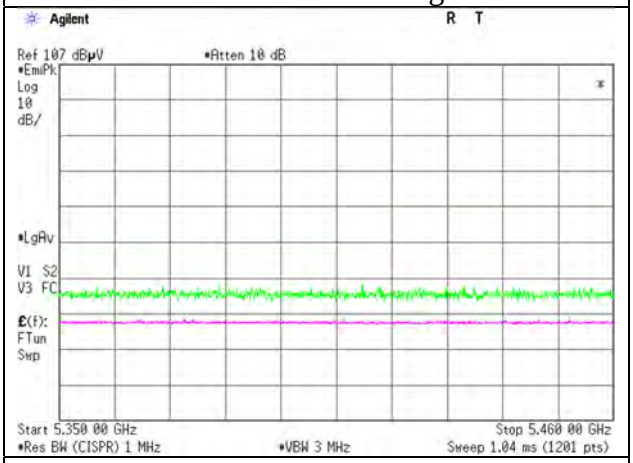
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10480.000	PK	47.99	36.57	9.07	40.22	-9.54	43.87	-51.36	-27.0	24.3	150	208	-
Vert.	10480.000	PK	48.36	36.57	9.07	40.22	-9.54	44.24	-50.99	-27.0	23.9	146	149	-

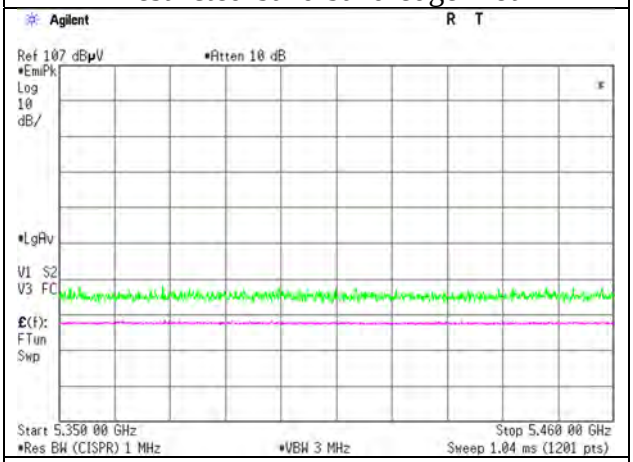
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 22, 2021
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Toshinori Yamada
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-20 5240 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C			
Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.3
Date	February 21, 2021	February 22, 2021	February 26, 2021	March 5, 2021
Temperature / Humidity	21 deg. C / 32 % RH	22 deg. C / 32 % RH	27 deg. C / 38 % RH	22 deg. C / 35 % RH
Engineer	Yusuke Tanikawara	Toshinori Yamada	Takahiro Suzuki	Hiromasa Sato
	(30 MHz – 1 GHz)	(1 GHz – 10 GHz)	(10 GHz – 26.5 GHz)	(26.5 GHz – 40 GHz)
Mode	Tx 11ac-20 5745 MHz (MIMO)			

(below 1 GHz and above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	63.844	QP	44.80	7.44	7.01	31.89	0.00	27.36	40.0	12.6	327	122	-
Hori.	213.932	QP	46.50	11.19	5.76	31.76	0.00	31.69	43.5	11.8	161	294	-
Hori.	257.551	QP	47.10	12.05	6.09	31.71	0.00	33.53	46.0	12.4	121	323	-
Hori.	303.936	QP	45.00	13.67	6.43	31.69	0.00	33.41	46.0	12.5	103	39	-
Hori.	316.947	QP	47.70	14.04	6.52	31.67	0.00	36.59	46.0	9.4	100	248	-
Hori.	362.844	QP	42.70	15.11	6.81	31.63	0.00	32.99	46.0	13.0	100	291	-
Hori.	473.175	QP	40.10	17.05	7.47	31.62	0.00	33.00	46.0	13.0	100	196	-
Hori.	11490.000	PK	45.99	37.98	9.55	40.08	-9.54	43.90	73.9	30.0	173	186	-
Hori.	11490.000	AV	34.81	37.98	9.55	40.08	-9.54	32.72	53.9	21.1	173	186	VBW:3 kHz
Vert.	42.967	QP	37.60	13.79	7.12	31.91	0.00	26.60	40.0	13.4	100	13	-
Vert.	213.160	QP	43.80	11.20	5.75	31.76	0.00	28.99	43.5	14.5	100	260	-
Vert.	259.247	QP	50.00	12.13	6.10	31.71	0.00	36.52	46.0	9.4	100	249	-
Vert.	11490.000	PK	47.04	37.98	9.55	40.08	-9.54	44.95	73.9	28.9	133	195	-
Vert.	11490.000	AV	35.64	37.98	9.55	40.08	-9.54	33.55	53.9	20.3	133	195	VBW:3 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

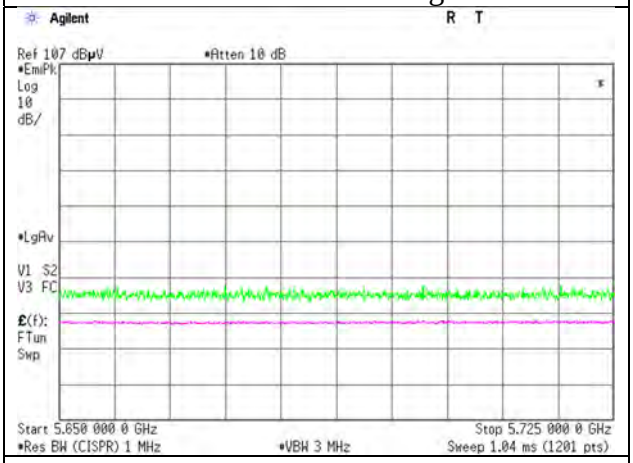
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	44.93	32.64	16.60	38.91	2.06	57.32	-37.91	-27.0	10.9	144	2	-
Hori.	5700.000	PK	46.50	32.71	16.62	38.93	2.06	58.96	-36.27	10.0	46.2	144	2	-
Hori.	5720.000	PK	45.72	32.75	16.63	38.94	2.06	58.22	-37.01	15.6	52.6	144	2	-
Hori.	5725.000	PK	45.59	32.77	16.64	38.94	2.06	58.12	-37.11	27.0	64.1	144	2	-
Hori.	17235.000	PK	46.12	39.94	12.33	37.25	-9.54	51.60	-43.63	-27.0	16.6	138	35	-
Vert.	5650.000	PK	46.61	32.64	16.60	38.91	2.06	59.00	-36.23	-27.0	**9.2**	263	338	-
Vert.	5700.000	PK	45.86	32.71	16.62	38.93	2.06	58.32	-36.91	10.0	46.9	263	338	-
Vert.	5720.000	PK	44.65	32.75	16.63	38.94	2.06	57.15	-38.08	15.6	53.6	263	338	-
Vert.	5725.000	PK	44.27	32.77	16.64	38.94	2.06	56.80	-38.43	27.0	65.4	263	338	-
Vert.	17235.000	PK	45.59	39.94	12.33	37.25	-9.54	51.07	-44.16	-27.0	17.1	139	329	-

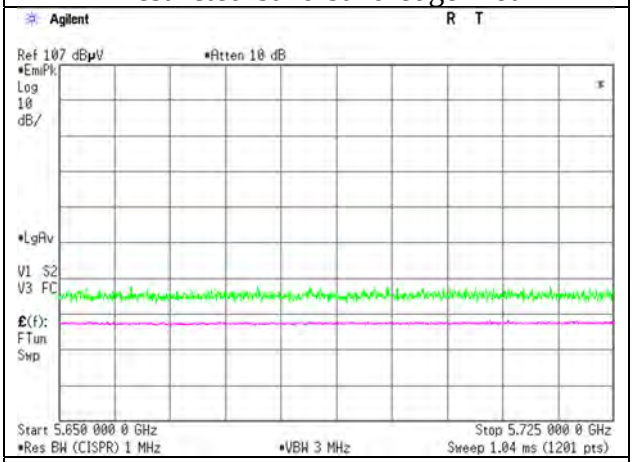
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 22, 2021
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Toshinori Yamada
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-20 5745 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.2	No.2	No.3
Date	February 22, 2021	February 26, 2021	March 5, 2021
Temperature / Humidity	22 deg. C / 32 % RH	27 deg. C / 38 % RH	22 deg. C / 35 % RH
Engineer	Toshinori Yamada	Takahiro Suzuki	Hiromasa Sato
	(1 GHz – 10 GHz)	(10 GHz – 26.5 GHz)	(26.5 GHz – 40 GHz)
Mode	Tx 11ac-20 5785 MHz (MIMO)		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11570.000	PK	47.38	38.06	9.59	40.13	-9.54	45.36	73.9	28.5	176	166	-
Hori.	11570.000	AV	35.25	38.06	9.59	40.13	-9.54	33.23	53.9	20.6	176	166	VBW:3 kHz
Vert.	11570.000	PK	47.26	38.06	9.59	40.13	-9.54	45.24	73.9	28.6	140	198	-
Vert.	11570.000	AV	35.66	38.06	9.59	40.13	-9.54	33.64	53.9	20.2	140	198	VBW:3 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	17355.000	PK	45.46	40.15	12.35	37.31	-9.54	51.11	-44.12	-27.0	17.1	131	36	-
Vert.	17355.000	PK	45.76	40.15	12.35	37.31	-9.54	51.41	-43.82	-27.0	**16.8**	137	333	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.2	No.2	No.3
Date	February 22, 2021	February 26, 2021	March 5, 2021
Temperature / Humidity	22 deg. C / 32 % RH	27 deg. C / 38 % RH	22 deg. C / 35 % RH
Engineer	Toshinori Yamada	Takahiro Suzuki	Hiromasa Sato
	(1 GHz – 10 GHz)	(10 GHz – 26.5 GHz)	(26.5 GHz – 40 GHz)
Mode	Tx 11ac-20 5825 MHz (MIMO)		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11650.000	PK	47.38	38.11	9.64	40.19	-9.54	45.40	73.9	28.5	138	227	-
Hori.	11650.000	AV	36.75	38.11	9.64	40.19	-9.54	34.77	53.9	19.1	138	227	VBW:3 kHz
Vert.	11650.000	PK	47.37	38.11	9.64	40.19	-9.54	45.39	73.9	28.5	141	197	-
Vert.	11650.000	AV	35.87	38.11	9.64	40.19	-9.54	33.89	53.9	20.0	141	197	VBW:3 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

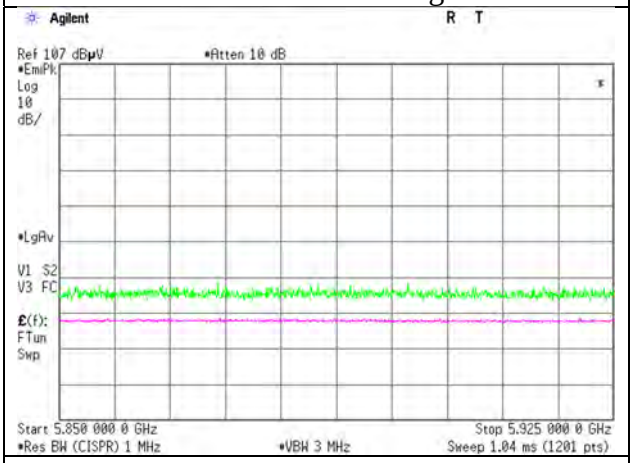
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	45.65	33.11	16.72	39.01	2.06	58.53	-36.70	27.0	63.7	154	2	-
Hori.	5855.000	PK	45.70	33.12	16.72	39.01	2.06	58.59	-36.64	15.6	52.2	154	2	-
Hori.	5875.000	PK	45.06	33.16	16.75	39.02	2.06	58.01	-37.22	10.0	47.2	154	2	-
Hori.	5925.000	PK	45.05	33.23	16.78	39.04	2.06	58.08	-37.15	-27.0	10.1	154	2	-
Hori.	17475.000	PK	44.94	40.25	12.35	37.37	-9.54	50.63	-44.60	-27.0	17.6	132	28	-
Vert.	5850.000	PK	44.91	33.11	16.72	39.01	2.06	57.79	-37.44	27.0	64.4	148	343	-
Vert.	5855.000	PK	45.11	33.12	16.72	39.01	2.06	58.00	-37.23	15.6	52.8	148	343	-
Vert.	5875.000	PK	45.50	33.16	16.75	39.02	2.06	58.45	-36.78	10.0	46.7	148	343	-
Vert.	5925.000	PK	45.22	33.23	16.78	39.04	2.06	58.25	-36.98	-27.0	**9.9**	148	343	-
Vert.	17475.000	PK	44.56	40.25	12.35	37.37	-9.54	50.25	-44.98	-27.0	17.9	139	336	-

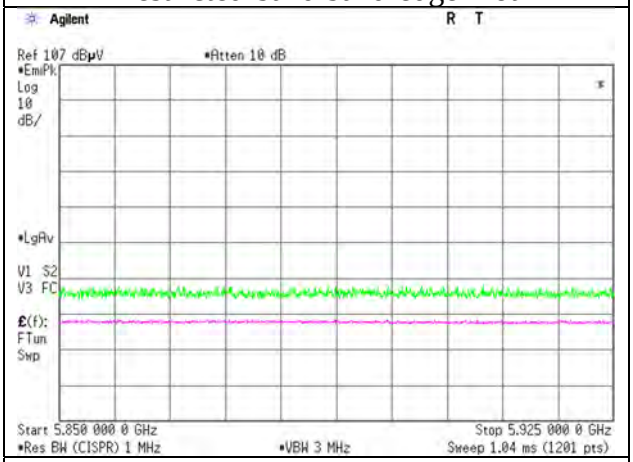
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 22, 2021
Temperature / Humidity	22 deg. C / 32 % RH
Engineer	Toshinori Yamada
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-20 5825 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 24, 2021
Temperature / Humidity	23 deg. C / 68 % RH
Engineer	Kenichi Adachi
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5190 MHz (MIMO)

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

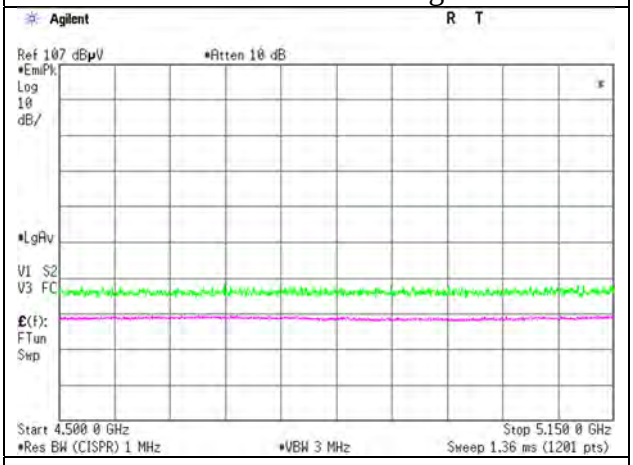
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	44.45	32.34	16.28	38.63	2.06	56.50	73.9	17.4	273	316	-
Hori.	5150.000	AV	35.46	32.34	16.28	38.63	2.06	47.51	53.9	**6.3**	273	316	VBW:5.6 kHz
Vert.	5150.000	PK	44.43	32.34	16.28	38.63	2.06	56.48	73.9	17.4	168	332	-
Vert.	5150.000	AV	35.40	32.34	16.28	38.63	2.06	47.45	53.9	6.4	168	332	VBW:5.6 kHz

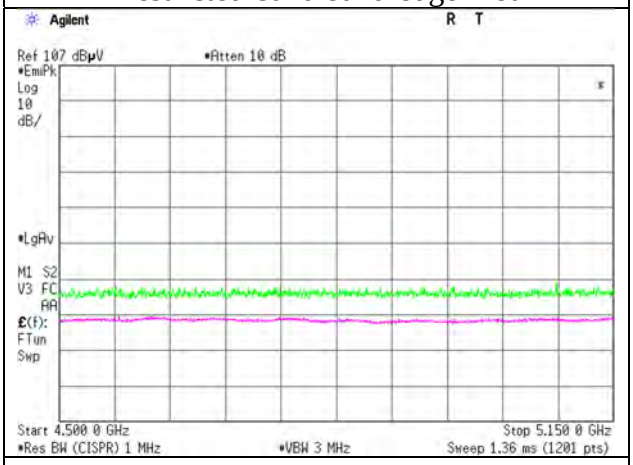
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 24, 2021
Temperature / Humidity	23 deg. C / 68 % RH
Engineer	Kenichi Adachi
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5190 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 24, 2021
Temperature / Humidity	23 deg. C / 68 % RH
Engineer	Kenichi Adachi
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5230 MHz (MIMO)

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

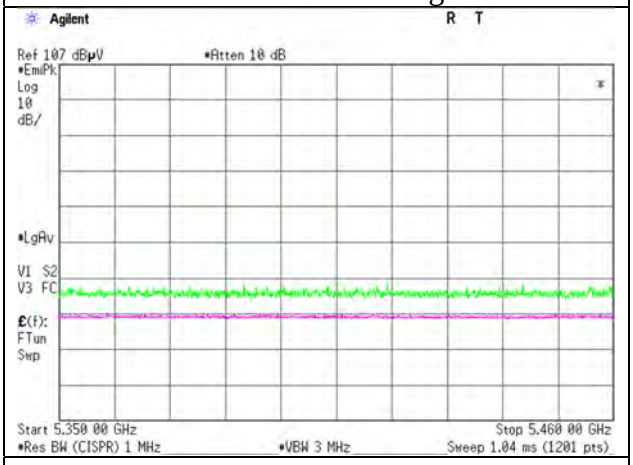
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	55.56	32.06	16.42	38.74	2.06	67.36	73.9	**6.5**	274	314	-
Hori.	5350.000	AV	35.48	32.06	16.42	38.74	2.06	47.28	53.9	6.6	274	314	VBW:5.6 kHz
Vert.	5350.000	PK	44.68	32.06	16.42	38.74	2.06	56.48	73.9	17.4	162	329	-
Vert.	5350.000	AV	35.52	32.06	16.42	38.74	2.06	47.32	53.9	**6.5**	162	329	VBW:5.6 kHz

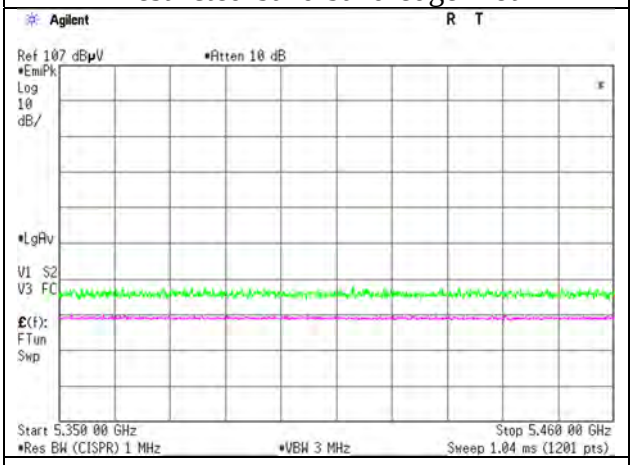
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 24, 2021
Temperature / Humidity	23 deg. C / 68 % RH
Engineer	Kenichi Adachi
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5230 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 24, 2021
Temperature / Humidity	23 deg. C / 68 % RH
Engineer	Kenichi Adachi
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5755 MHz (MIMO)

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

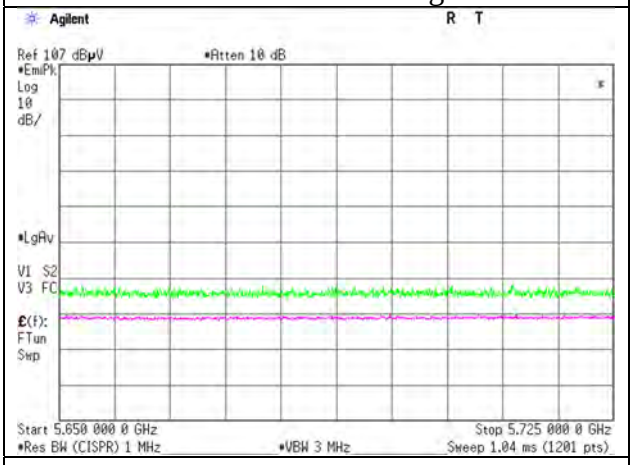
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]
Hori.	5650.000	PK	46.24	32.64	16.60	38.91	2.06	58.63	-36.60	-27.0	9.6	270	276
Hori.	5700.000	PK	46.32	32.71	16.62	38.93	2.06	58.78	-36.45	10.0	46.4	270	276
Hori.	5720.000	PK	46.44	32.75	16.63	38.94	2.06	58.94	-36.29	15.6	51.8	270	276
Hori.	5725.000	PK	46.72	32.77	16.64	38.94	2.06	59.25	-35.98	27.0	62.9	270	276
Vert.	5650.000	PK	46.29	32.64	16.60	38.91	2.06	58.68	-36.55	-27.0	**9.5**	172	224
Vert.	5700.000	PK	46.36	32.71	16.62	38.93	2.06	58.82	-36.41	10.0	46.4	172	224
Vert.	5720.000	PK	46.46	32.75	16.63	38.94	2.06	58.96	-36.27	15.6	51.8	172	224
Vert.	5725.000	PK	46.76	32.77	16.64	38.94	2.06	59.29	-35.94	27.0	62.9	172	224

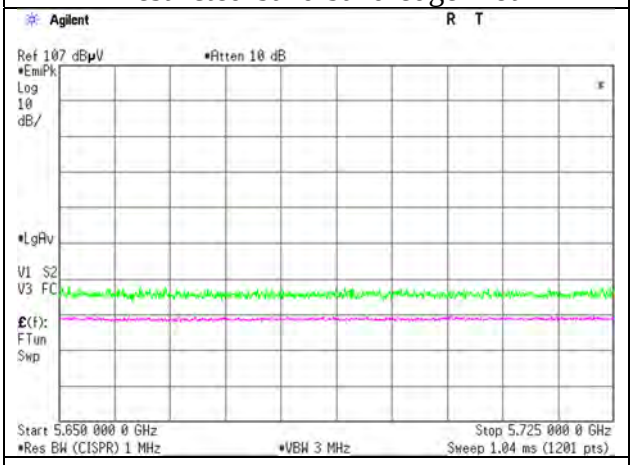
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 24, 2021
Temperature / Humidity	23 deg. C / 68 % RH
Engineer	Kenichi Adachi
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5755 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 24, 2021
Temperature / Humidity	23 deg. C / 68 % RH
Engineer	Kenichi Adachi
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5795 MHz (MIMO)

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

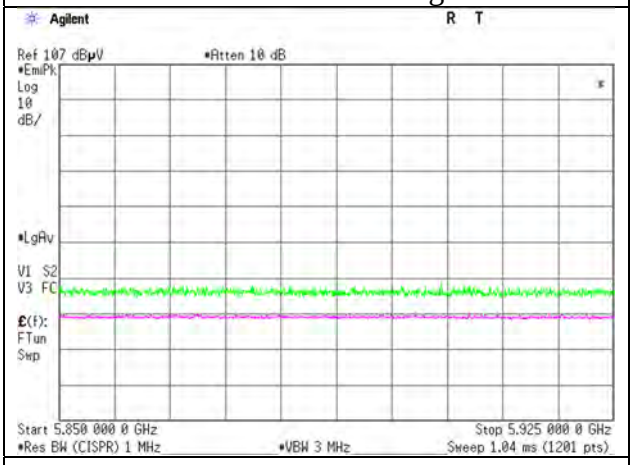
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	45.98	33.11	16.72	39.01	2.06	58.86	-36.37	27.0	63.3	269	282	-
Hori.	5855.000	PK	45.89	33.12	16.72	39.01	2.06	58.78	-36.45	15.6	52.0	269	282	-
Hori.	5875.000	PK	45.86	33.16	16.75	39.02	2.06	58.81	-36.42	10.0	46.4	269	282	-
Hori.	5925.000	PK	45.82	33.23	16.78	39.04	2.06	58.85	-36.38	-27.0	**9.3**	269	282	-
Vert.	5850.000	PK	45.96	33.11	16.72	39.01	2.06	58.84	-36.39	27.0	63.3	170	346	-
Vert.	5855.000	PK	45.94	33.12	16.72	39.01	2.06	58.83	-36.40	15.6	52.0	170	346	-
Vert.	5875.000	PK	45.88	33.16	16.75	39.02	2.06	58.83	-36.40	10.0	46.4	170	346	-
Vert.	5925.000	PK	45.86	33.23	16.78	39.04	2.06	58.89	-36.34	-27.0	**9.3**	170	346	-

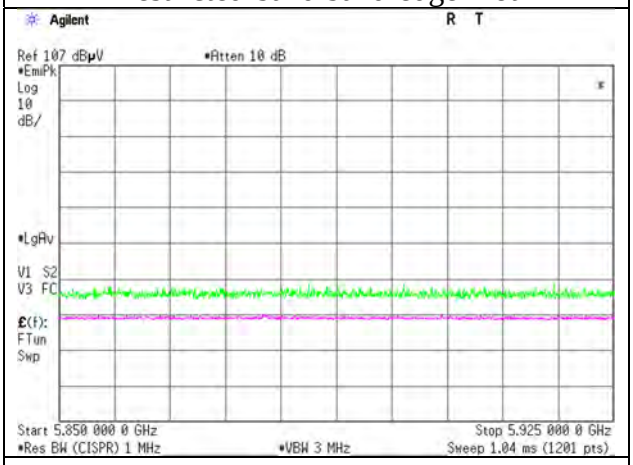
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.2
Date	February 24, 2021
Temperature / Humidity	23 deg. C / 68 % RH
Engineer	Kenichi Adachi
	(1 GHz – 6.4 GHz)
Mode	Tx 11n-40 5795 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.3	No.2	No.3
Date	March 5, 2021	February 26, 2021	March 5, 2021
Temperature / Humidity	25 deg. C / 35 % RH	27 deg. C / 38 % RH	25 deg. C / 35 % RH
Engineer	Hiromasa Sato	Takahiro Suzuki	Hiromasa Sato
	(1 GHz - 10 GHz)	(10 GHz – 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-40 5190 MHz (MIMO)		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.53	32.12	16.64	43.05	2.06	56.30	73.9	17.6	203	286	-
Hori.	15570.000	PK	46.79	39.57	11.33	37.22	-9.54	50.93	73.9	22.9	135	328	-
Hori.	5150.000	AV	38.31	32.12	16.64	43.05	2.06	46.08	53.9	7.8	203	286	VBW:5.1 kHz
Hori.	15570.000	AV	35.48	39.57	11.33	37.22	-9.54	39.62	53.9	14.2	135	328	VBW:5.1 kHz
Vert.	5150.000	PK	48.74	32.12	16.64	43.05	2.06	56.51	73.9	17.3	146	169	-
Vert.	15570.000	PK	47.94	39.57	11.33	37.22	-9.54	52.08	73.9	21.8	137	327	-
Vert.	5150.000	AV	38.67	32.12	16.64	43.05	2.06	46.44	53.9	**7.4**	146	169	VBW:5.1 kHz
Vert.	15570.000	AV	35.08	39.57	11.33	37.22	-9.54	39.22	53.9	14.6	137	327	VBW:5.1 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

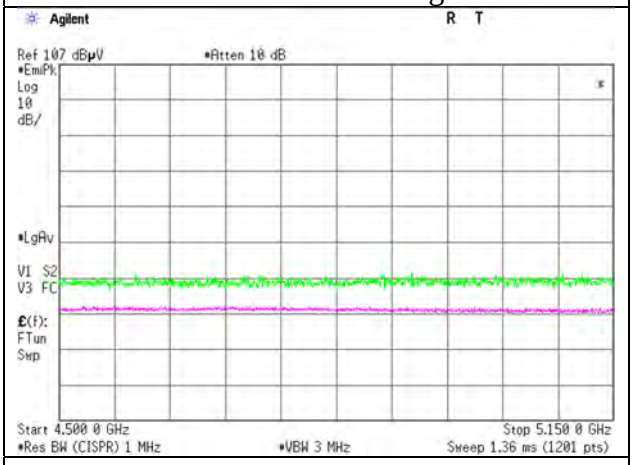
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10380.000	PK	48.08	36.36	9.04	40.06	-9.54	43.88	-51.35	-27.0	24.3	141	179	-
Vert.	10380.000	PK	48.34	36.36	9.04	40.06	-9.54	44.14	-51.09	-27.0	24.0	149	147	-

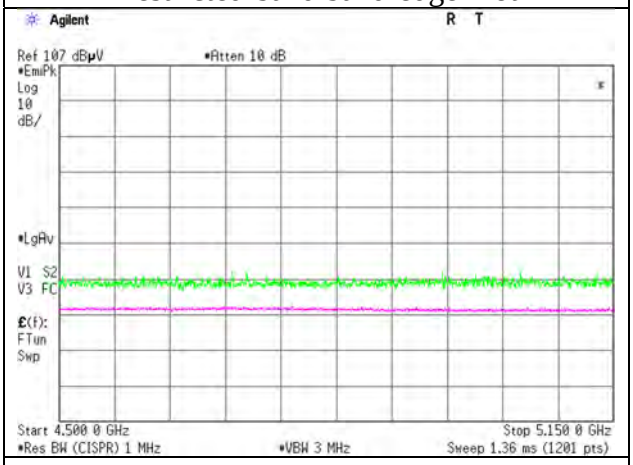
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	March 5, 2021
Temperature / Humidity	25 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-40 5190 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.3	No.2	No.3
Date	March 5, 2021	February 26, 2021	March 5, 2021
Temperature / Humidity	25 deg. C / 35 % RH	27 deg. C / 38 % RH	25 deg. C / 35 % RH
Engineer	Hiromasa Sato	Takahiro Suzuki	Hiromasa Sato
	(1 GHz - 10 GHz)	(10 GHz – 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-40 5230 MHz (MIMO)		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	48.71	31.83	16.76	43.26	2.06	56.10	73.9	17.8	211	283	-
Hori.	15690.000	PK	46.71	39.74	11.33	37.23	-9.54	51.01	73.9	22.8	139	28	-
Hori.	5350.000	AV	38.63	31.83	16.76	43.26	2.06	46.02	53.9	7.8	211	283	VBW:5.1 kHz
Hori.	15690.000	AV	34.83	39.74	11.33	37.23	-9.54	39.13	53.9	14.7	139	28	VBW:5.1 kHz
Vert.	5350.000	PK	48.33	31.83	16.76	43.26	2.06	55.72	73.9	18.1	147	171	-
Vert.	15690.000	PK	46.30	39.74	11.33	37.23	-9.54	50.60	73.9	23.3	127	329	-
Vert.	5350.000	AV	38.73	31.83	16.76	43.26	2.06	46.12	53.9	**7.7**	147	171	VBW:5.1 kHz
Vert.	15690.000	AV	34.93	39.74	11.33	37.23	-9.54	39.23	53.9	14.6	127	329	VBW:5.1 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

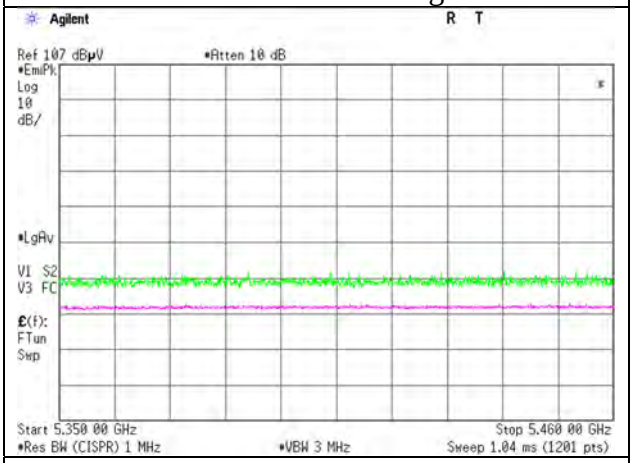
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10460.000	PK	48.38	36.52	9.06	40.19	-9.54	44.23	-51.00	-27.0	24.0	171	207	-
Vert.	10460.000	PK	48.79	36.52	9.06	40.19	-9.54	44.64	-50.59	-27.0	23.5	172	163	-

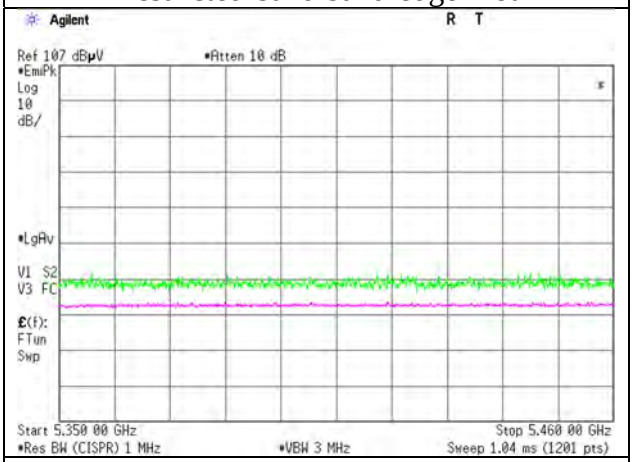
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	March 5, 2021
Temperature / Humidity	25 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-40 5230 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission
(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.3	No.2	No.3
Date	March 5, 2021	February 26, 2021	March 5, 2021
Temperature / Humidity	25 deg. C / 35 % RH	27 deg. C / 38 % RH	25 deg. C / 35 % RH
Engineer	Hiromasa Sato	Takahiro Suzuki	Hiromasa Sato
	(1 GHz - 10 GHz)	(10 GHz – 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-40 5755 MHz (MIMO)		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11510.000	PK	45.51	38.00	9.55	40.09	-9.54	43.43	73.9	30.4	172	188	-
Hori.	11510.000	AV	34.53	38.00	9.55	40.09	-9.54	32.45	53.9	21.4	172	188	VBW:5.1 kHz
Vert.	11510.000	PK	47.22	38.00	9.55	40.09	-9.54	45.14	73.9	28.7	138	194	-
Vert.	11510.000	AV	34.97	38.00	9.55	40.09	-9.54	32.89	53.9	21.0	138	194	VBW:5.1 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

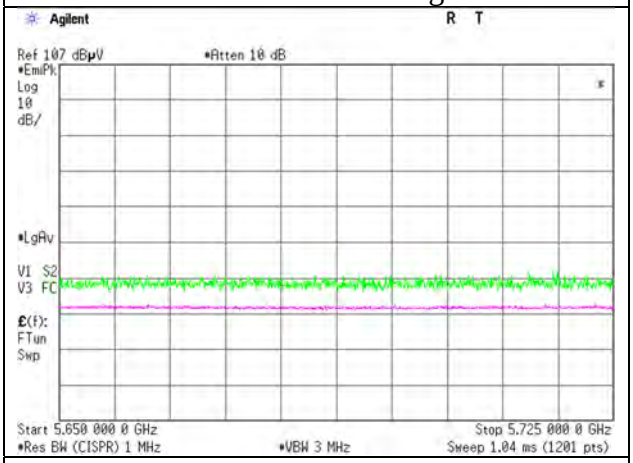
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.66	32.49	16.96	43.42	2.06	56.75	-38.48	-27.0	**11.4**	193	335	-
Hori.	5700.000	PK	48.95	32.60	16.98	43.42	2.06	57.17	-38.06	10.0	48.0	193	335	-
Hori.	5720.000	PK	48.89	32.66	16.99	43.42	2.06	57.18	-38.05	15.6	53.6	193	335	-
Hori.	5725.000	PK	48.60	32.68	17.00	43.42	2.06	56.92	-38.31	27.0	65.3	193	335	-
Hori.	17265.000	PK	46.21	39.99	12.33	37.26	-9.54	51.73	-43.50	-27.0	16.5	140	41	-
Vert.	5650.000	PK	48.46	32.49	16.96	43.42	2.06	56.55	-38.68	-27.0	11.6	140	7	-
Vert.	5700.000	PK	48.52	32.60	16.98	43.42	2.06	56.74	-38.49	10.0	48.4	140	7	-
Vert.	5720.000	PK	48.41	32.66	16.99	43.42	2.06	56.70	-38.53	15.6	54.1	140	7	-
Vert.	5725.000	PK	48.31	32.68	17.00	43.42	2.06	56.63	-38.60	27.0	65.6	140	7	-
Vert.	17265.000	PK	45.48	39.99	12.33	37.26	-9.54	51.00	-44.23	-27.0	17.2	139	325	-

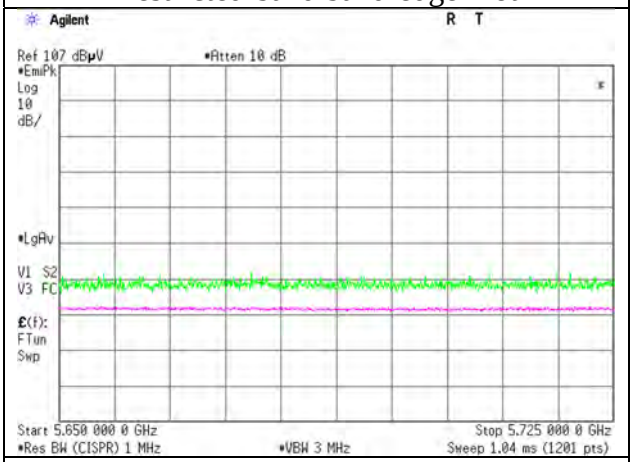
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	March 5, 2021
Temperature / Humidity	25 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-40 5755 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission
(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.3	No.2	No.3
Date	March 5, 2021	February 26, 2021	March 5, 2021
Temperature / Humidity	25 deg. C / 35 % RH	27 deg. C / 38 % RH	25 deg. C / 35 % RH
Engineer	Hiromasa Sato	Takahiro Suzuki	Hiromasa Sato
	(1 GHz - 10 GHz)	(10 GHz – 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-40 5795 MHz (MIMO)		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11590.000	PK	46.45	38.08	9.60	40.15	-9.54	44.44	73.9	29.4	147	227	-
Hori.	11590.000	AV	35.78	38.08	9.60	40.15	-9.54	33.77	53.9	20.1	147	227	VBW:5.1 kHz
Vert.	11590.000	PK	47.53	38.08	9.60	40.15	-9.54	45.52	73.9	28.3	141	197	-
Vert.	11590.000	AV	37.47	38.08	9.60	40.15	-9.54	35.46	53.9	18.4	141	197	VBW:5.1 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

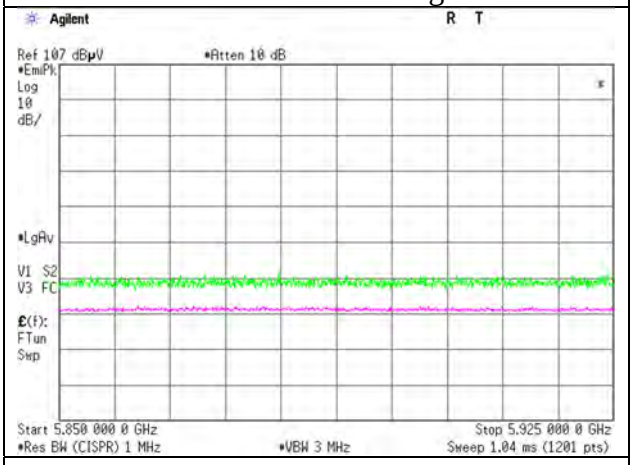
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	48.40	33.07	17.07	43.43	2.06	57.17	-38.06	27.0	65.0	192	334	-
Hori.	5855.000	PK	48.26	33.08	17.07	43.43	2.06	57.04	-38.19	15.6	53.7	192	334	-
Hori.	5875.000	PK	48.17	33.12	17.11	43.43	2.06	57.03	-38.20	10.0	48.2	192	334	-
Hori.	5925.000	PK	48.03	33.21	17.13	43.43	2.06	57.00	-38.23	-27.0	11.2	192	334	-
Hori.	17385.000	PK	45.53	40.18	12.35	37.32	-9.54	51.20	-44.03	-27.0	17.0	140	39	-
Vert.	5850.000	PK	48.50	33.07	17.07	43.43	2.06	57.27	-37.96	27.0	64.9	164	6	-
Vert.	5855.000	PK	48.10	33.08	17.07	43.43	2.06	56.88	-38.35	15.6	53.9	164	6	-
Vert.	5875.000	PK	48.47	33.12	17.11	43.43	2.06	57.33	-37.90	10.0	47.9	164	6	-
Vert.	5925.000	PK	48.27	33.21	17.13	43.43	2.06	57.24	-37.99	-27.0	**10.9**	164	6	-
Vert.	17385.000	PK	45.59	40.18	12.35	37.32	-9.54	51.26	-43.97	-27.0	16.9	128	325	-

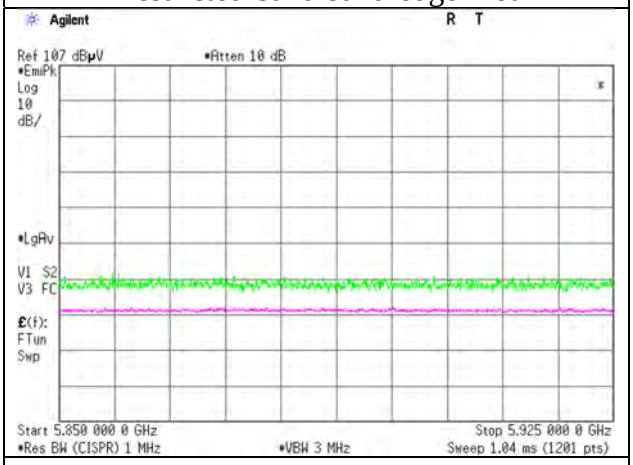
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	March 5, 2021
Temperature / Humidity	25 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-40 5795 MHz (MIMO)

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission
(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.3	No.2	No.3
Date	March 5, 2021	February 26, 2021	March 5, 2021
Temperature / Humidity	25 deg. C / 35 % RH	27 deg. C / 38 % RH	25 deg. C / 35 % RH
Engineer	Hiromasa Sato	Takahiro Suzuki	Hiromasa Sato
	(1 GHz - 10 GHz)	(10 GHz – 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-80 5210 MHz (MIMO)		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	48.94	32.12	16.64	43.05	2.06	56.71	73.9	17.1	235	289	-
Hori.	5350.000	PK	48.22	31.83	16.76	43.26	2.06	55.61	73.9	18.2	235	289	-
Hori.	15630.000	PK	46.25	39.61	11.34	37.23	-9.54	50.43	73.9	23.4	132	321	-
Hori.	5150.000	AV	38.96	32.12	16.64	43.05	2.06	46.73	53.9	7.1	235	289	VBW:9.1 kHz
Hori.	5350.000	AV	39.43	31.83	16.76	43.26	2.06	46.82	53.9	7.0	235	289	VBW:9.1 kHz
Hori.	15630.000	AV	35.37	39.61	11.34	37.23	-9.54	39.55	53.9	14.3	132	321	VBW:9.1 kHz
Vert.	5150.000	PK	48.40	32.12	16.64	43.05	2.06	56.17	73.9	17.7	146	62	-
Vert.	5350.000	PK	48.48	31.83	16.76	43.26	2.06	55.87	73.9	18.0	146	62	-
Vert.	15630.000	PK	47.01	39.61	11.34	37.23	-9.54	51.19	73.9	22.7	136	323	-
Vert.	5150.000	AV	39.13	32.12	16.64	43.05	2.06	46.90	53.9	7.0	146	62	VBW:9.1 kHz
Vert.	5350.000	AV	39.57	31.83	16.76	43.26	2.06	46.96	53.9	**6.9**	146	62	VBW:9.1 kHz
Vert.	15630.000	AV	35.88	39.61	11.34	37.23	-9.54	40.06	53.9	13.8	136	323	VBW:9.1 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

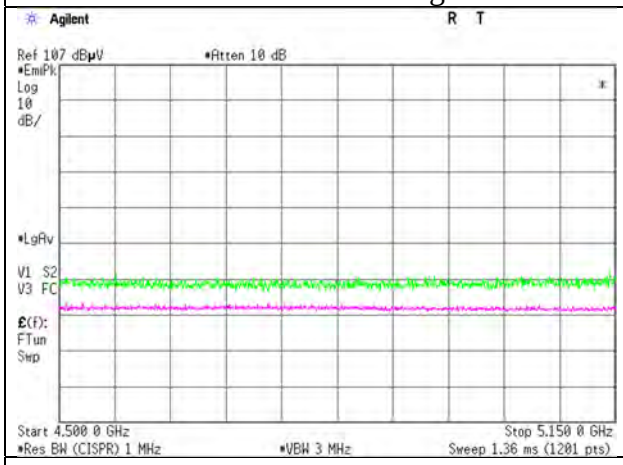
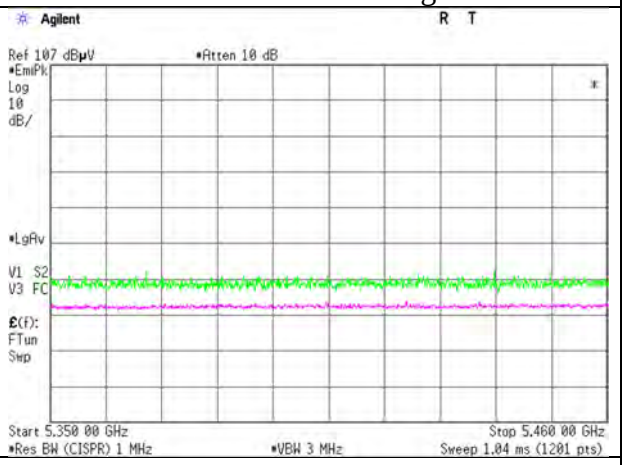
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10420.000	PK	48.65	36.43	9.06	40.13	-9.54	44.47	-50.76	-27.0	23.7	175	206	-
Vert.	10420.000	PK	48.37	36.43	9.06	40.13	-9.54	44.19	-51.04	-27.0	24.0	170	183	-

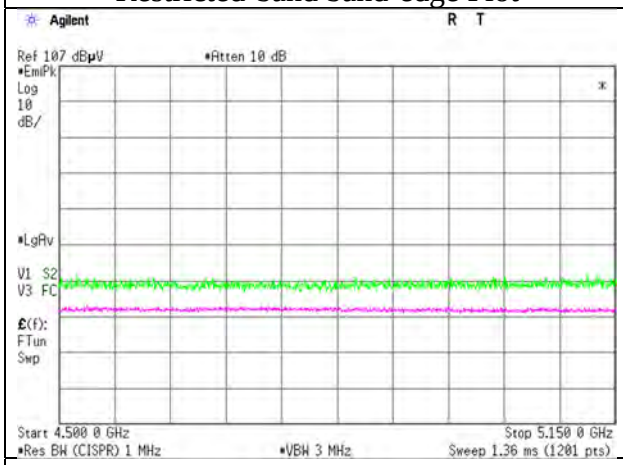
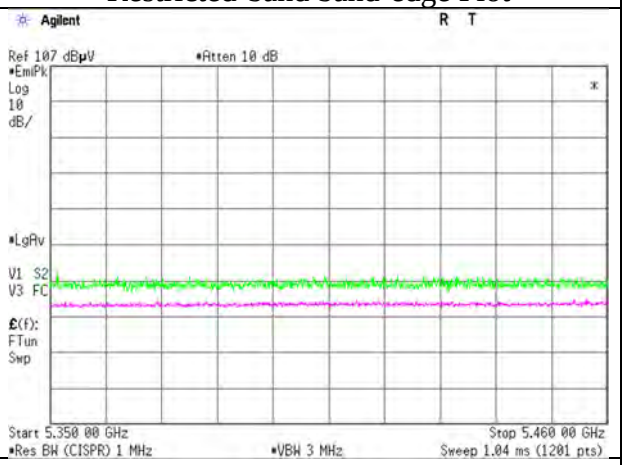
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	March 5, 2021
Temperature / Humidity	25 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-80 5210 MHz (MIMO)

Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission
(Test model number: DNNS122)

Report No.	14071795S-C		
Test place	Shonan EMC Lab.		
Semi Anechoic Chamber	No.3	No.2	No.3
Date	March 5, 2021	February 26, 2021	March 5, 2021
Temperature / Humidity	25 deg. C / 35 % RH	27 deg. C / 38 % RH	25 deg. C / 35 % RH
Engineer	Hiromasa Sato	Takahiro Suzuki	Hiromasa Sato
	(1 GHz - 10 GHz)	(10 GHz – 26.5 GHz)	(26.5 GHz - 40 GHz)
Mode	Tx 11ac-80 5775 MHz (MIMO)		

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	11550.000	PK	45.79	38.03	9.58	40.12	-9.54	43.74	73.9	30.1	137	215	-
Hori.	11550.000	AV	35.53	38.03	9.58	40.12	-9.54	33.48	53.9	20.4	137	215	VBW:9.1 kHz
Vert.	11550.000	PK	46.71	38.03	9.58	40.12	-9.54	44.66	73.9	29.2	161	208	-
Vert.	11550.000	AV	35.58	38.03	9.58	40.12	-9.54	33.53	53.9	20.3	161	208	VBW:9.1 kHz

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

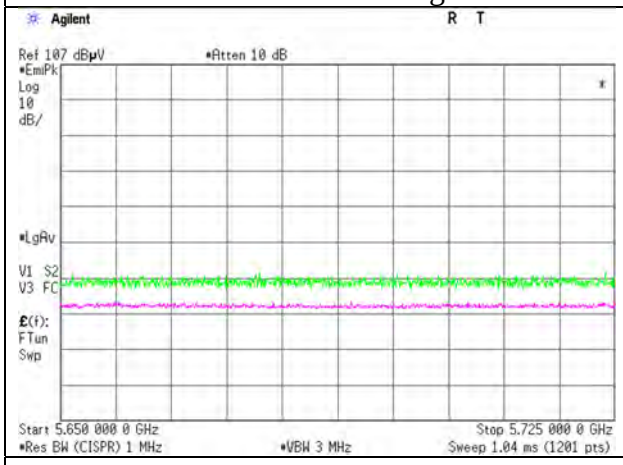
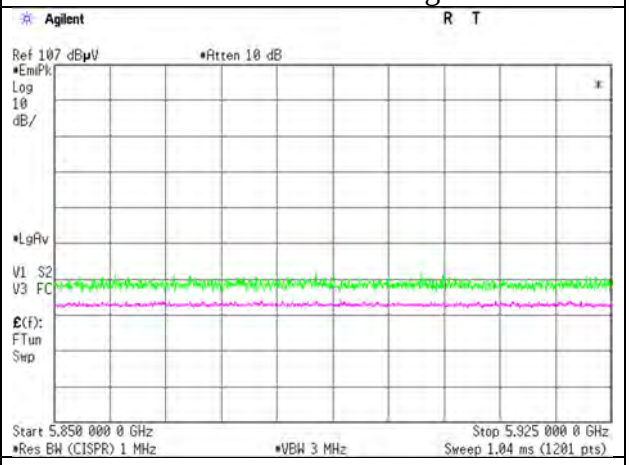
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.80	32.49	16.96	43.42	2.06	56.89	-38.34	-27.0	11.3	192	335	-
Hori.	5700.000	PK	48.31	32.60	16.98	43.42	2.06	56.53	-38.70	10.0	48.7	192	335	-
Hori.	5720.000	PK	48.33	32.66	16.99	43.42	2.06	56.62	-38.61	15.6	54.2	192	335	-
Hori.	5725.000	PK	48.27	32.68	17.00	43.42	2.06	56.59	-38.64	27.0	65.6	192	335	-
Hori.	5850.000	PK	48.76	33.07	17.07	43.43	2.06	57.53	-37.70	27.0	64.7	192	335	-
Hori.	5855.000	PK	48.41	33.08	17.07	43.43	2.06	57.19	-38.04	15.6	53.6	192	335	-
Hori.	5875.000	PK	48.33	33.12	17.11	43.43	2.06	57.19	-38.04	10.0	48.0	192	335	-
Hori.	5925.000	PK	48.67	33.21	17.13	43.43	2.06	57.64	-37.59	-27.0	**10.5**	192	335	-
Hori.	17325.000	PK	45.38	40.11	12.34	37.29	-9.54	51.00	-44.23	-27.0	17.2	142	28	-
Vert.	5650.000	PK	48.44	32.49	16.96	43.42	2.06	56.53	-38.70	-27.0	11.7	161	6	-
Vert.	5700.000	PK	48.47	32.60	16.98	43.42	2.06	56.69	-38.54	10.0	48.5	161	6	-
Vert.	5720.000	PK	48.26	32.66	16.99	43.42	2.06	56.55	-38.68	15.6	54.2	161	6	-
Vert.	5725.000	PK	48.82	32.68	17.00	43.42	2.06	57.14	-38.09	27.0	65.0	161	6	-
Vert.	5850.000	PK	48.31	33.07	17.07	43.43	2.06	57.08	-38.15	27.0	65.1	161	6	-
Vert.	5855.000	PK	48.33	33.08	17.07	43.43	2.06	57.11	-38.12	15.6	53.7	161	6	-
Vert.	5875.000	PK	48.40	33.12	17.11	43.43	2.06	57.26	-37.97	10.0	47.9	161	6	-
Vert.	5925.000	PK	48.73	33.21	17.13	43.43	2.06	57.70	-37.53	-27.0	**10.5**	161	6	-
Vert.	17325.000	PK	45.63	40.11	12.34	37.29	-9.54	51.25	-43.98	-27.0	16.9	126	319	-

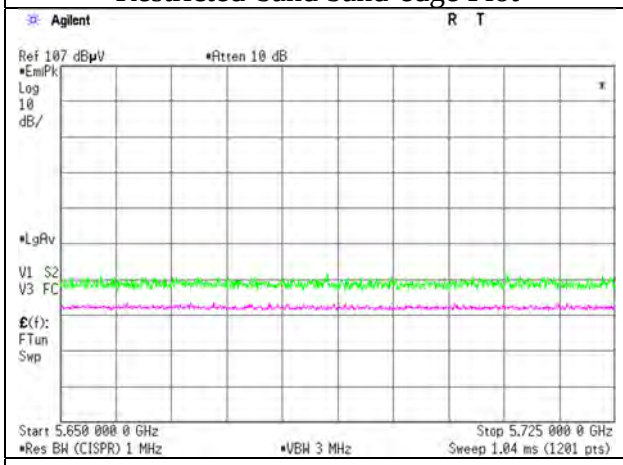
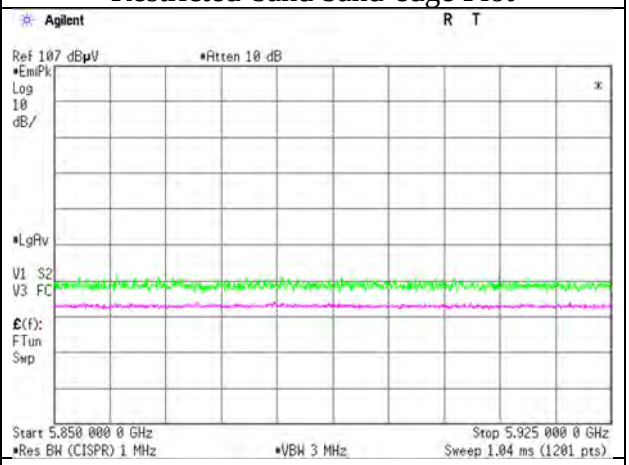
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS122)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	March 5, 2021
Temperature / Humidity	25 deg. C / 35 % RH
Engineer	Hiromasa Sato
	(1 GHz – 6.4 GHz)
Mode	Tx 11ac-80 5775 MHz (MIMO)

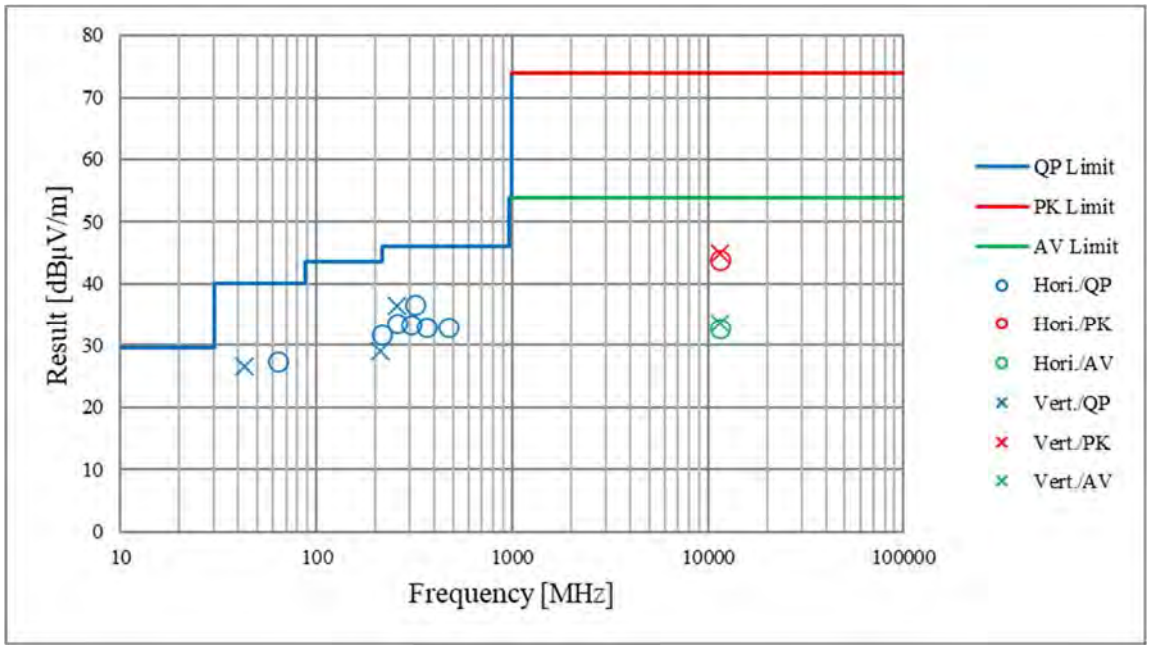
Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission
(Plot data, Worst case for MIMO)
(Test model number: DNNS122)

Report No.	14071795S-C			
Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	No.2	No.2	No.2	No.3
Date	February 21, 2021	February 22, 2021	February 26, 2021	March 5, 2021
Temperature / Humidity	21 deg. C / 32 % RH	22 deg. C / 32 % RH	27 deg. C / 38 % RH	22 deg. C / 35 % RH
Engineer	Yusuke Tanikawara (30 MHz – 1 GHz)	Toshinori Yamada (1 GHz – 10 GHz)	Takahiro Suzuki (10 GHz – 26.5 GHz)	Hiromasa Sato (26.5 GHz – 40 GHz)
Mode	Tx 11ac-20 5745 MHz (MIMO)			



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

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11a 5180 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

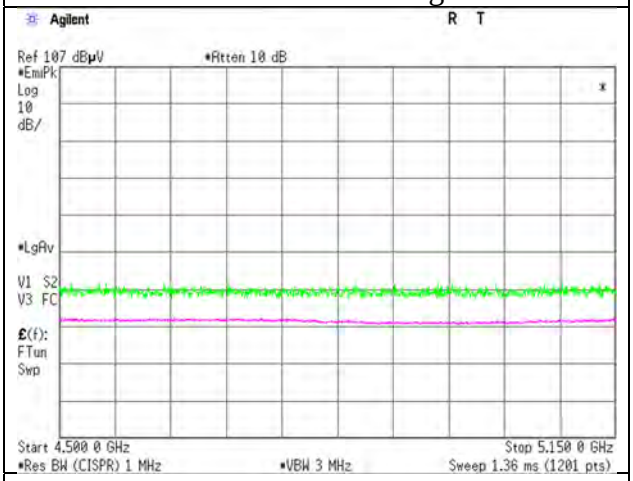
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.22	32.40	16.58	43.05	2.06	58.21	73.9	15.6	167	286	-
Hori.	5150.000	AV	37.74	32.40	16.58	43.05	2.06	45.73	53.9	**8.1**	167	286	VBW:1.5 kHz
Vert.	5150.000	PK	50.05	32.40	16.58	43.05	2.06	58.04	73.9	15.8	138	344	-
Vert.	5150.000	AV	37.72	32.40	16.58	43.05	2.06	45.71	53.9	**8.1**	138	344	VBW:1.5 kHz

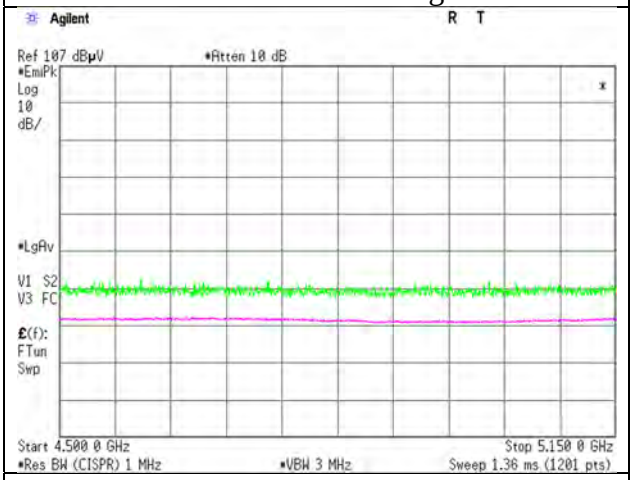
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato (1 GHz -6.4 GHz)
Mode	Tx 11a 5180 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11a 5240 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

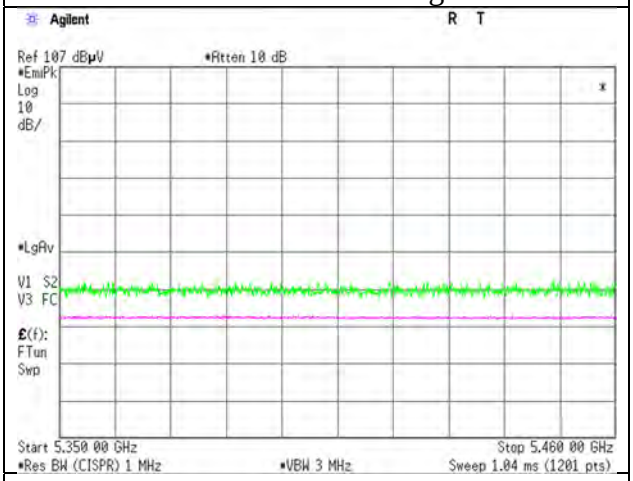
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.72	32.23	16.69	43.26	2.06	57.44	73.9	16.4	176	285	-
Hori.	5350.000	AV	38.30	32.23	16.69	43.26	2.06	46.02	53.9	**7.8**	176	285	VBW:1.5 kHz
Vert.	5350.000	PK	49.17	32.23	16.69	43.26	2.06	56.89	73.9	17.0	109	328	-
Vert.	5350.000	AV	37.15	32.23	16.69	43.26	2.06	44.87	53.9	9.0	109	328	VBW:1.5 kHz

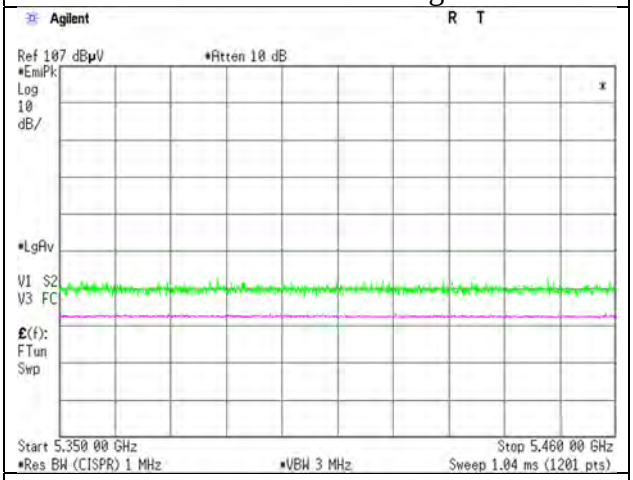
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato (1 GHz -6.4 GHz)
Mode	Tx 11a 5240 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11a 5745 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.93	32.74	16.87	43.42	2.06	57.18	-38.05	-27.0	11.0	145	354	-
Hori.	5700.000	PK	49.15	32.87	16.89	43.42	2.06	57.55	-37.68	10.0	47.6	145	354	-
Hori.	5720.000	PK	51.75	32.93	16.90	43.42	2.06	60.22	-35.01	15.6	50.6	145	354	-
Hori.	5725.000	PK	54.27	32.95	16.90	43.42	2.06	62.76	-32.47	27.0	59.4	145	354	-
Vert.	5650.000	PK	49.46	32.74	16.87	43.42	2.06	57.71	-37.52	-27.0	**10.5**	139	355	-
Vert.	5700.000	PK	48.80	32.87	16.89	43.42	2.06	57.20	-38.03	10.0	48.0	139	355	-
Vert.	5720.000	PK	50.99	32.93	16.90	43.42	2.06	59.46	-35.77	15.6	51.3	139	355	-
Vert.	5725.000	PK	51.23	32.95	16.90	43.42	2.06	59.72	-35.51	27.0	62.5	139	355	-

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

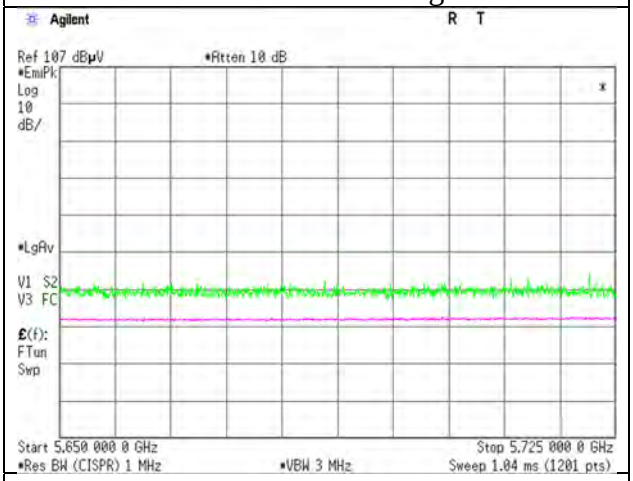
Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11a 5745 MHz

Horizontal

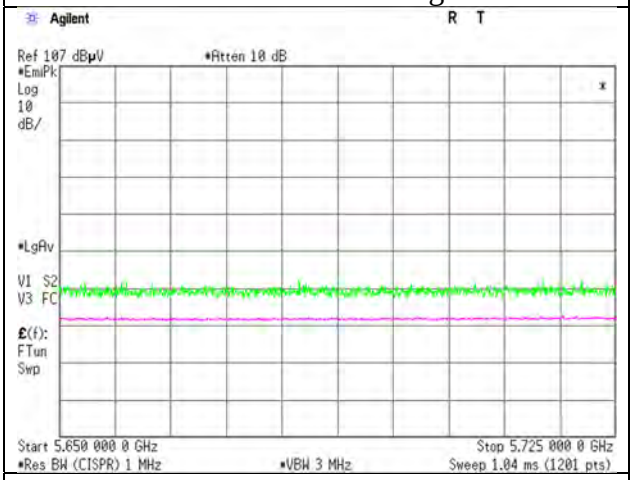
Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

Vertical

Restricted-band band-edge Plot



Trace Green: Peak Plot
Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11a SISO 5825 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

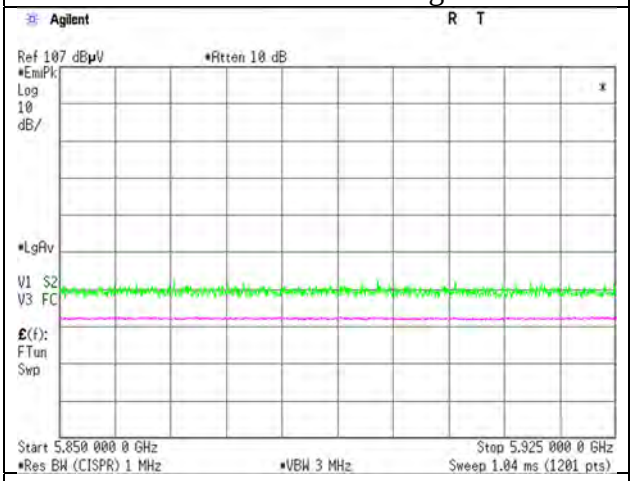
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.44	33.26	16.98	43.43	2.06	58.31	-36.92	27.0	63.9	166	352	-
Hori.	5855.000	PK	49.16	33.27	16.98	43.43	2.06	58.04	-37.19	15.6	52.7	166	352	-
Hori.	5875.000	PK	49.97	33.31	17.01	43.43	2.06	58.92	-36.31	10.0	46.3	166	352	-
Hori.	5925.000	PK	49.79	33.43	17.03	43.43	2.06	58.88	-36.35	-27.0	**9.3**	166	352	-
Vert.	5850.000	PK	48.97	33.26	16.98	43.43	2.06	57.84	-37.39	27.0	64.3	146	354	-
Vert.	5855.000	PK	49.15	33.27	16.98	43.43	2.06	58.03	-37.20	15.6	52.8	146	354	-
Vert.	5875.000	PK	49.23	33.31	17.01	43.43	2.06	58.18	-37.05	10.0	47.0	146	354	-
Vert.	5925.000	PK	49.27	33.43	17.03	43.43	2.06	58.36	-36.87	-27.0	9.8	146	354	-

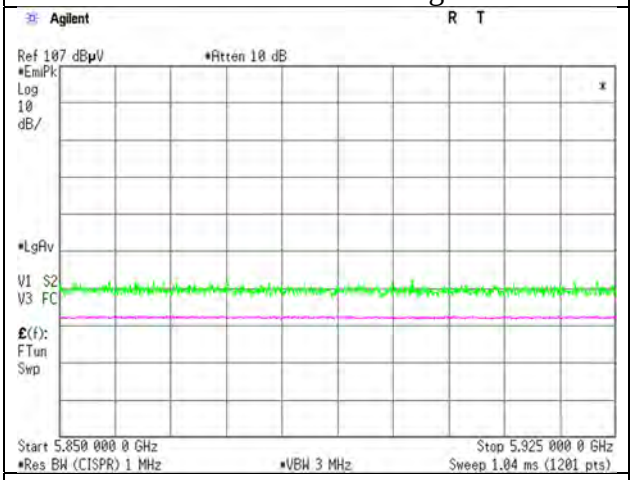
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11a SISO 5825 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11n-40 SISO 5190 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

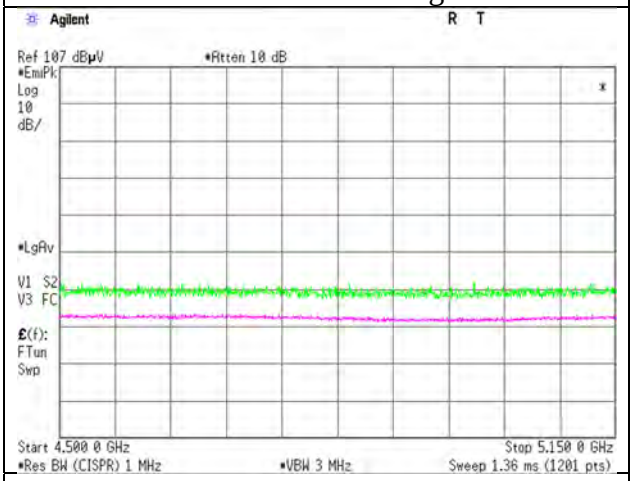
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	50.81	32.40	16.58	43.05	2.06	58.80	73.9	15.1	189	287	-
Hori.	5150.000	AV	38.52	32.40	16.58	43.05	2.06	46.51	53.9	**7.3**	189	287	VBW:5.6 kHz
Vert.	5150.000	PK	49.97	32.40	16.58	43.05	2.06	57.96	73.9	15.9	148	346	-
Vert.	5150.000	AV	37.00	32.40	16.58	43.05	2.06	44.99	53.9	8.9	148	346	VBW:5.6 kHz

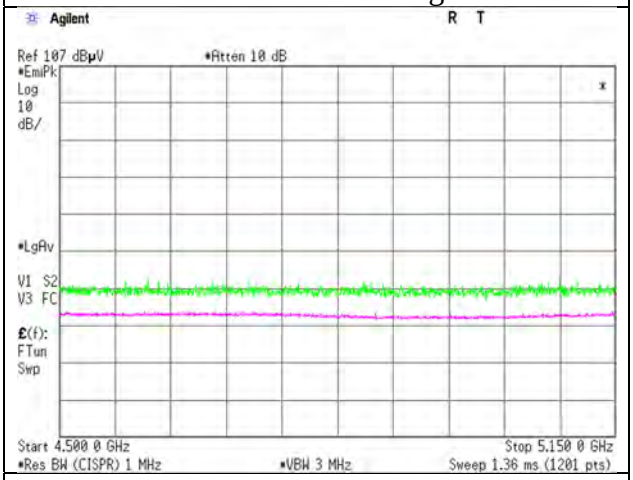
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11n-40 SISO 5190 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11n-40 SISO 5230 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

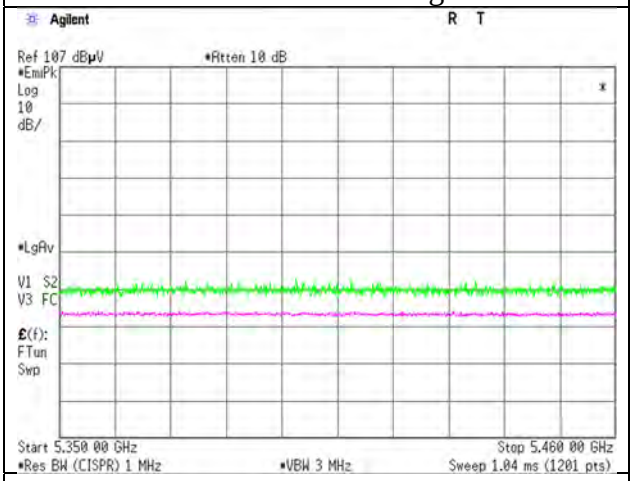
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.15	32.23	16.69	43.26	2.06	56.87	73.9	17.0	186	284	-
Hori.	5350.000	AV	38.68	32.23	16.69	43.26	2.06	46.40	53.9	**7.5**	186	284	VBW:5.6 kHz
Vert.	5350.000	PK	49.95	32.23	16.69	43.26	2.06	57.67	73.9	16.2	162	347	-
Vert.	5350.000	AV	38.50	32.23	16.69	43.26	2.06	46.22	53.9	7.6	162	347	VBW:5.6 kHz

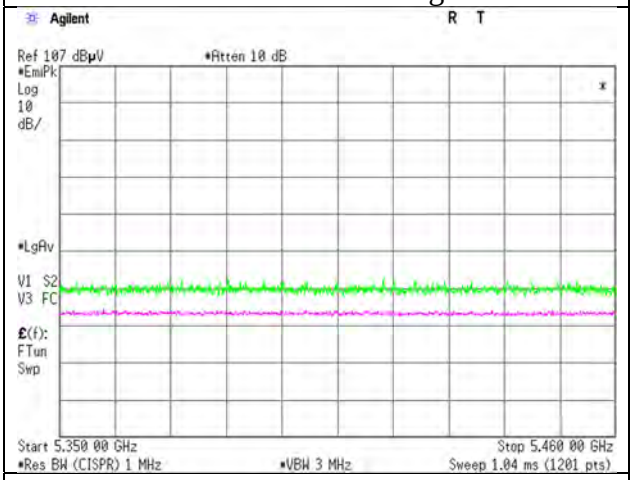
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11n-40 SISO 5230 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11n-40 SISO 5755 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

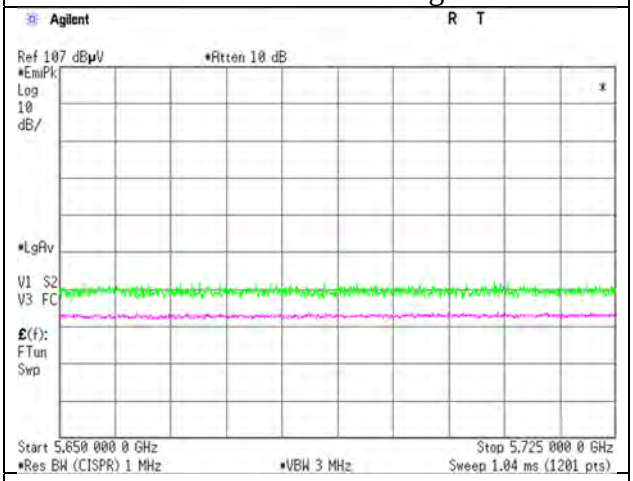
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	49.56	32.74	16.87	43.42	2.06	57.81	-37.42	-27.0	**10.4**	159	355	-
Hori.	5700.000	PK	49.75	32.87	16.89	43.42	2.06	58.15	-37.08	10.0	47.0	159	355	-
Hori.	5720.000	PK	50.15	32.93	16.90	43.42	2.06	58.62	-36.61	15.6	52.2	159	355	-
Hori.	5725.000	PK	50.56	32.95	16.90	43.42	2.06	59.05	-36.18	27.0	63.1	159	355	-
Vert.	5650.000	PK	48.99	32.74	16.87	43.42	2.06	57.24	-37.99	-27.0	10.9	144	356	-
Vert.	5700.000	PK	48.47	32.87	16.89	43.42	2.06	56.87	-38.36	10.0	48.3	144	356	-
Vert.	5720.000	PK	49.00	32.93	16.90	43.42	2.06	57.47	-37.76	15.6	53.3	144	356	-
Vert.	5725.000	PK	50.02	32.95	16.90	43.42	2.06	58.51	-36.72	27.0	63.7	144	356	-

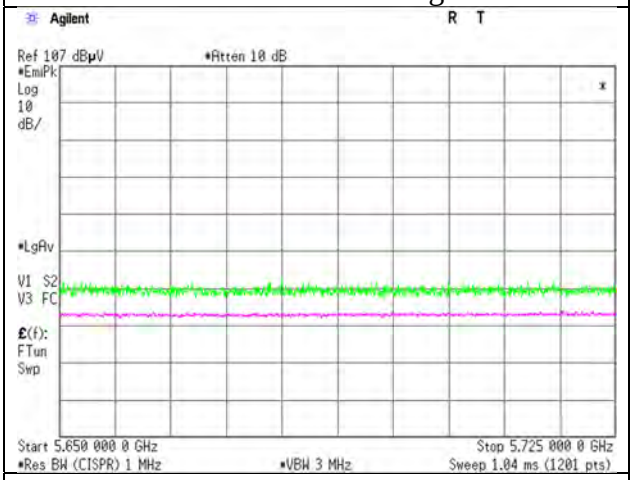
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11n-40 SISO 5755 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11n-40 SISO 5795 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

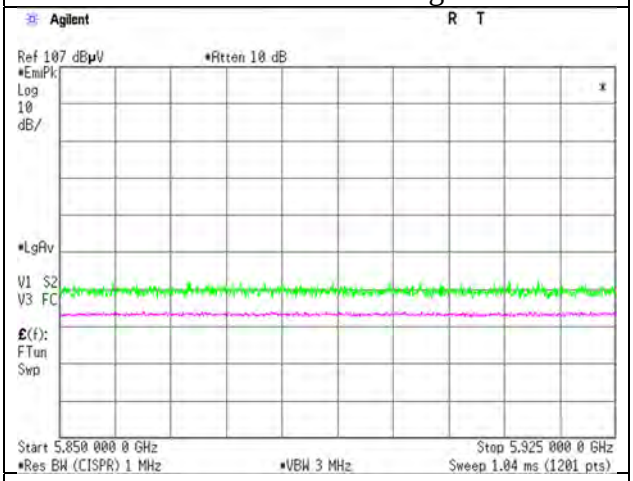
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.96	33.26	16.98	43.43	2.06	58.83	-36.40	27.0	63.4	174	353	-
Hori.	5855.000	PK	49.49	33.27	16.98	43.43	2.06	58.37	-36.86	15.6	52.4	174	353	-
Hori.	5875.000	PK	49.59	33.31	17.01	43.43	2.06	58.54	-36.69	10.0	46.6	174	353	-
Hori.	5925.000	PK	49.32	33.43	17.03	43.43	2.06	58.41	-36.82	-27.0	9.8	174	353	-
Vert.	5850.000	PK	49.26	33.26	16.98	43.43	2.06	58.13	-37.10	27.0	64.1	152	355	-
Vert.	5855.000	PK	49.98	33.27	16.98	43.43	2.06	58.86	-36.37	15.6	51.9	152	355	-
Vert.	5875.000	PK	49.58	33.31	17.01	43.43	2.06	58.53	-36.70	10.0	46.7	152	355	-
Vert.	5925.000	PK	49.65	33.43	17.03	43.43	2.06	58.74	-36.49	-27.0	**9.4**	152	355	-

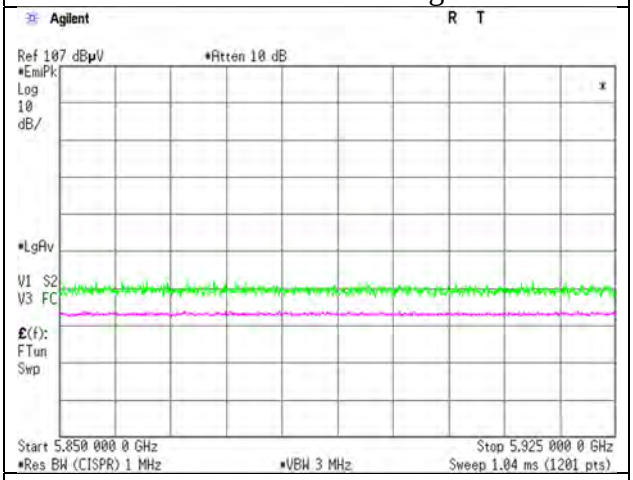
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11n-40 SISO 5795 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11ac-80 SISO 5210 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

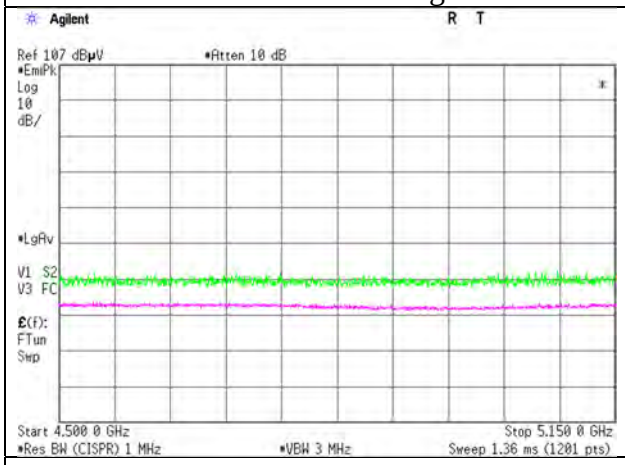
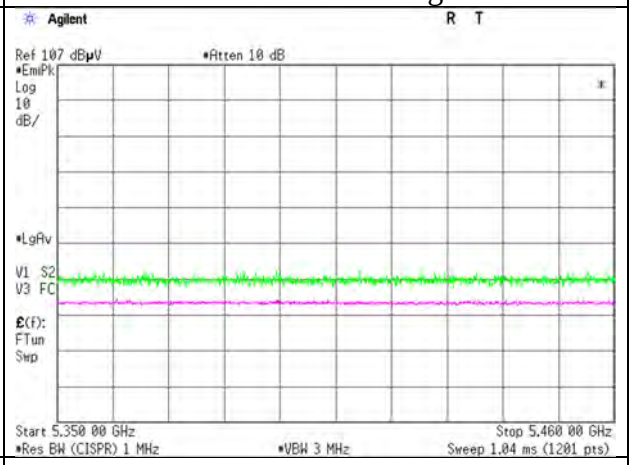
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.88	32.40	16.58	43.05	2.06	57.87	73.9	16.0	162	285	-
Hori.	5350.000	PK	48.93	32.23	16.69	43.26	2.06	56.65	73.9	17.2	162	285	-
Hori.	5150.000	AV	37.75	32.40	16.58	43.05	2.06	45.74	53.9	8.1	162	285	VBW:5.6 kHz
Hori.	5350.000	AV	38.37	32.23	16.69	43.26	2.06	46.09	53.9	7.8	162	285	VBW:5.6 kHz
Vert.	5150.000	PK	49.51	32.40	16.58	43.05	2.06	57.50	73.9	16.4	133	328	-
Vert.	5350.000	PK	49.95	32.23	16.69	43.26	2.06	57.67	73.9	16.2	133	328	-
Vert.	5150.000	AV	37.82	32.40	16.58	43.05	2.06	45.81	53.9	8.0	133	328	VBW:5.6 kHz
Vert.	5350.000	AV	38.87	32.23	16.69	43.26	2.06	46.59	53.9	**7.3**	133	328	VBW:5.6 kHz

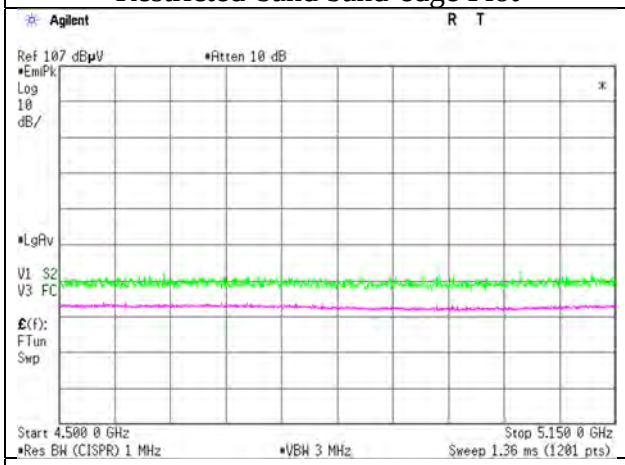
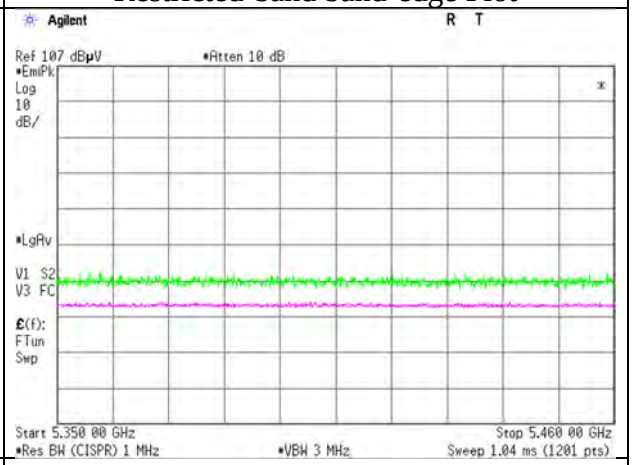
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11ac-80 SISO 5210 MHz

Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11ac-80 SISO 5775 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

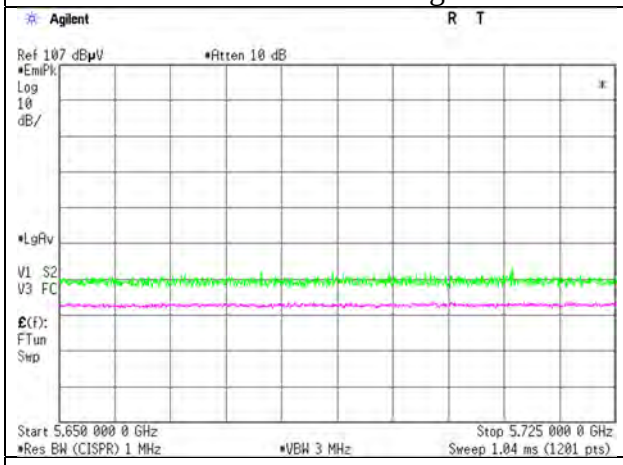
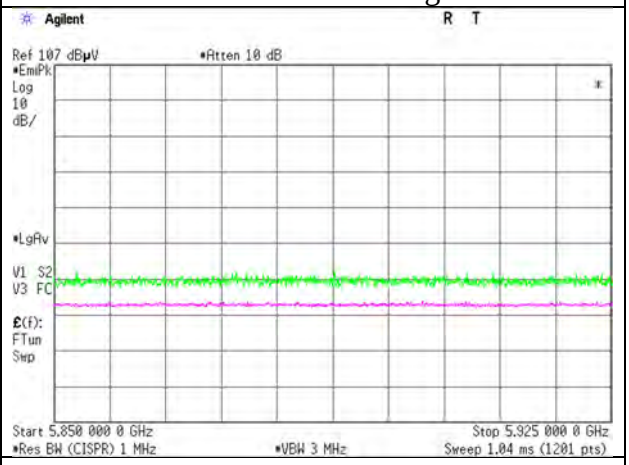
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	50.17	32.74	16.87	43.42	2.06	58.42	-36.81	-27.0	9.8	156	352	-
Hori.	5700.000	PK	49.09	32.87	16.89	43.42	2.06	57.49	-37.74	10.0	47.7	156	352	-
Hori.	5720.000	PK	49.25	32.93	16.90	43.42	2.06	57.72	-37.51	15.6	53.1	156	352	-
Hori.	5725.000	PK	50.21	32.95	16.90	43.42	2.06	58.70	-36.53	27.0	63.5	156	352	-
Hori.	5850.000	PK	49.36	33.26	16.98	43.43	2.06	58.23	-37.00	27.0	64.0	156	352	-
Hori.	5855.000	PK	50.12	33.27	16.98	43.43	2.06	59.00	-36.23	15.6	51.8	156	352	-
Hori.	5875.000	PK	49.27	33.31	17.01	43.43	2.06	58.22	-37.01	10.0	47.0	156	352	-
Hori.	5925.000	PK	49.33	33.43	17.03	43.43	2.06	58.42	-36.81	-27.0	9.8	156	352	-
Vert.	5650.000	PK	48.67	32.74	16.87	43.42	2.06	56.92	-38.31	-27.0	11.3	129	353	-
Vert.	5700.000	PK	48.97	32.87	16.89	43.42	2.06	57.37	-37.86	10.0	47.8	129	353	-
Vert.	5720.000	PK	49.00	32.93	16.90	43.42	2.06	57.47	-37.76	15.6	53.3	129	353	-
Vert.	5725.000	PK	49.23	32.95	16.90	43.42	2.06	57.72	-37.51	27.0	64.5	129	353	-
Vert.	5850.000	PK	49.46	33.26	16.98	43.43	2.06	58.33	-36.90	27.0	63.9	129	353	-
Vert.	5855.000	PK	49.20	33.27	16.98	43.43	2.06	58.08	-37.15	15.6	52.7	129	353	-
Vert.	5875.000	PK	49.49	33.31	17.01	43.43	2.06	58.44	-36.79	10.0	46.7	129	353	-
Vert.	5925.000	PK	49.69	33.43	17.03	43.43	2.06	58.78	-36.45	-27.0	**9.4**	129	353	-

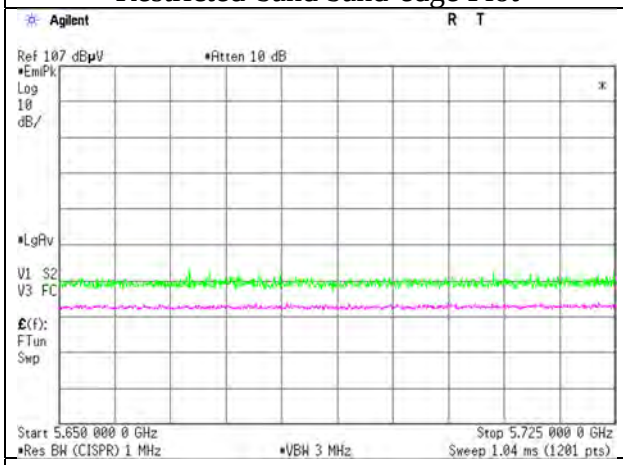
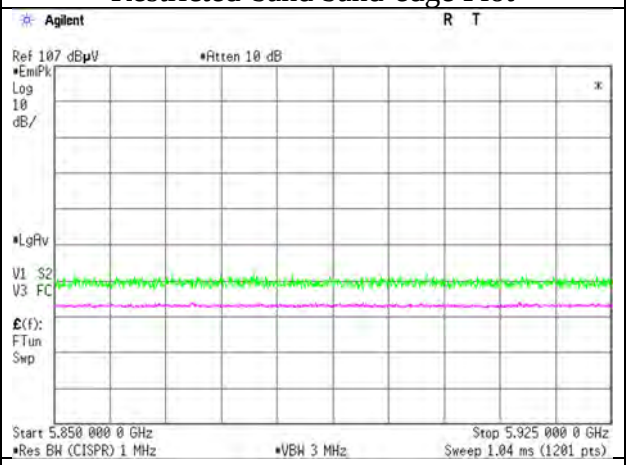
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 12, 2021
Temperature / Humidity	22 deg.C, 55 %RH
Engineer	Hiromasa Sato
	(1 GHz -6.4 GHz)
Mode	Tx 11ac-80 SISO 5775 MHz

Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 8, 2021
Temperature / Humidity	20 deg.C, 60 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-20 MIMO 5180 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

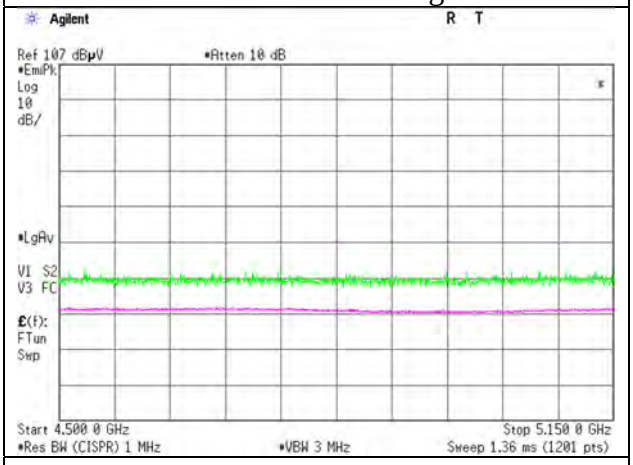
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.35	32.40	16.58	43.05	2.06	57.34	73.9	16.5	156	285	-
Hori.	5150.000	AV	38.40	32.40	16.58	43.05	2.06	46.39	53.9	**7.5**	156	285	VBW: 3 kHz
Vert.	5150.000	PK	49.09	32.40	16.58	43.05	2.06	57.08	73.9	16.8	105	347	-
Vert.	5150.000	AV	38.35	32.40	16.58	43.05	2.06	46.34	53.9	**7.5**	105	347	VBW: 3 kHz

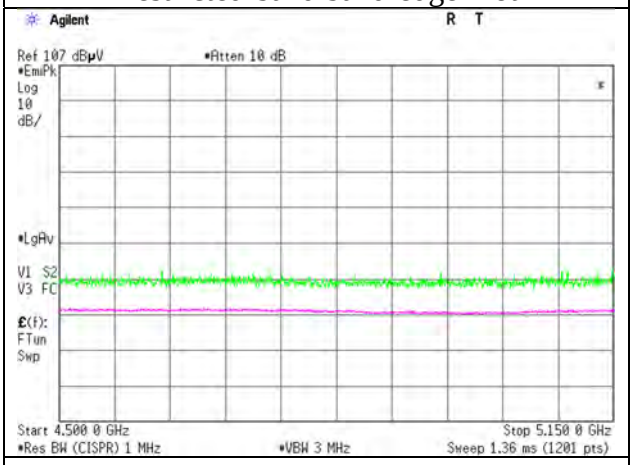
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 8, 2021
Temperature / Humidity	20 deg.C, 60 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-20 MIMO 5180 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 8, 2021
Temperature / Humidity	20 deg.C, 60 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-20 MIMO 5240 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

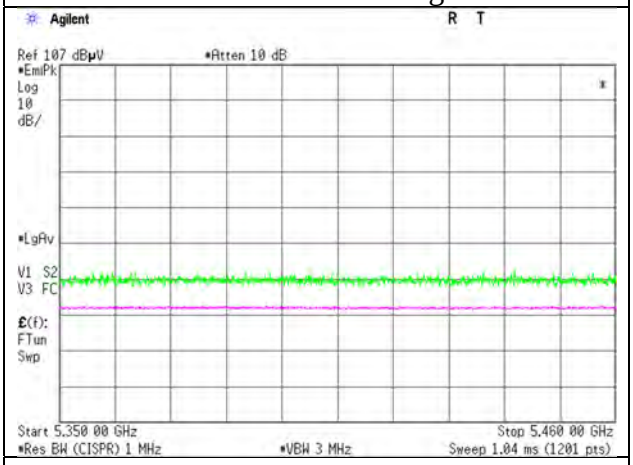
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.67	32.23	16.70	43.26	2.06	57.40	73.9	16.5	148	287	-
Hori.	5350.000	AV	38.99	32.23	16.70	43.26	2.06	46.72	53.9	**7.1**	148	287	VBW: 3 kHz
Vert.	5350.000	PK	49.53	32.23	16.70	43.26	2.06	57.26	73.9	16.6	151	349	-
Vert.	5350.000	AV	39.06	32.23	16.70	43.26	2.06	46.79	53.9	**7.1**	151	349	VBW: 3 kHz

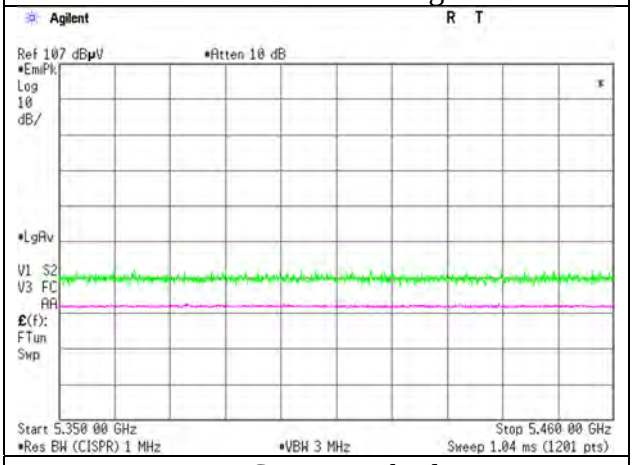
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 8, 2021
Temperature / Humidity	20 deg.C, 60 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-20 MIMO 5240 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 8, 2021
Temperature / Humidity	20 deg.C, 60 %RH
Engineer	Shiro Kobayashi
	(1 GHz -6.4 GHz)
Mode	Tx 11ac-20 MIMO 5745 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

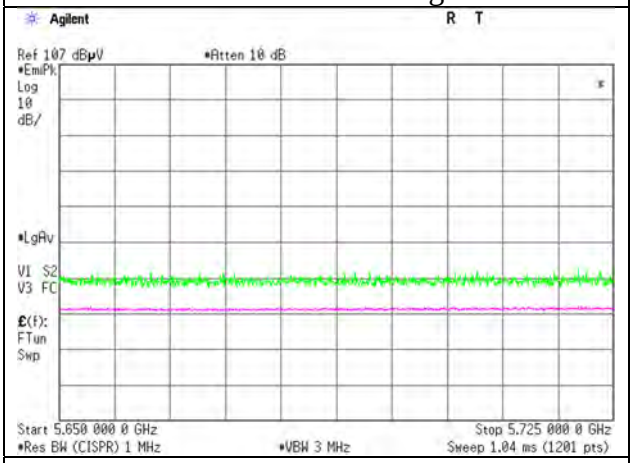
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	50.25	32.74	16.87	43.42	2.06	58.50	-36.73	-27.0	**9.7**	147	52	-
Hori.	5700.000	PK	49.41	32.87	16.89	43.42	2.06	57.81	-37.42	10.0	47.4	147	52	-
Hori.	5720.000	PK	51.64	32.93	16.90	43.42	2.06	60.11	-35.12	15.6	50.7	147	52	-
Hori.	5725.000	PK	51.79	32.95	16.90	43.42	2.06	60.28	-34.95	27.0	61.9	147	52	-
Vert.	5650.000	PK	49.69	32.74	16.87	43.42	2.06	57.94	-37.29	-27.0	10.2	124	57	-
Vert.	5700.000	PK	49.20	32.87	16.89	43.42	2.06	57.60	-37.63	10.0	47.6	124	57	-
Vert.	5720.000	PK	50.16	32.93	16.90	43.42	2.06	58.63	-36.60	15.6	52.2	124	57	-
Vert.	5725.000	PK	51.35	32.95	16.90	43.42	2.06	59.84	-35.39	27.0	62.3	124	57	-

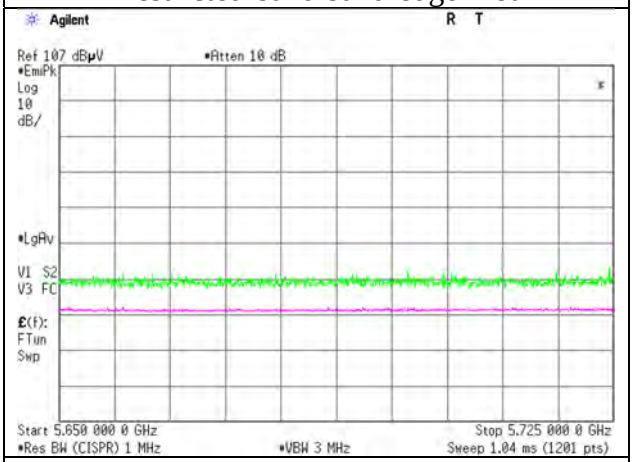
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 8, 2021
Temperature / Humidity	20 deg.C, 60 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-20 MIMO 5745 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 8, 2021
Temperature / Humidity	20 deg.C, 60 %RH
Engineer	Shiro Kobayashi
	(1 GHz -6.4 GHz)
Mode	Tx 11ac-20 MIMO 5825 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

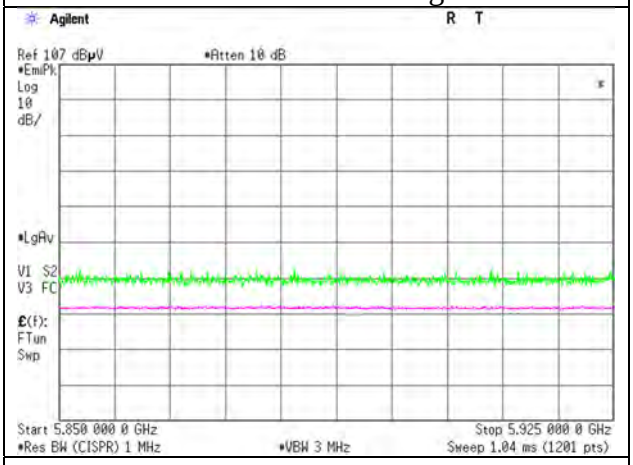
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.78	33.26	16.99	43.43	2.06	58.66	-36.57	27.0	63.5	127	354	-
Hori.	5855.000	PK	49.53	33.27	16.99	43.43	2.06	58.42	-36.81	15.6	52.4	127	354	-
Hori.	5875.000	PK	49.64	33.31	17.01	43.43	2.06	58.59	-36.64	10.0	46.6	127	354	-
Hori.	5925.000	PK	49.06	33.43	17.03	43.43	2.06	58.15	-37.08	-27.0	10.0	127	354	-
Vert.	5850.000	PK	49.40	33.26	16.99	43.43	2.06	58.28	-36.95	27.0	63.9	119	359	-
Vert.	5855.000	PK	49.42	33.27	16.99	43.43	2.06	58.31	-36.92	15.6	52.5	119	359	-
Vert.	5875.000	PK	49.58	33.31	17.01	43.43	2.06	58.53	-36.70	10.0	46.7	119	359	-
Vert.	5925.000	PK	49.15	33.43	17.03	43.43	2.06	58.24	-36.99	-27.0	**9.9**	119	359	-

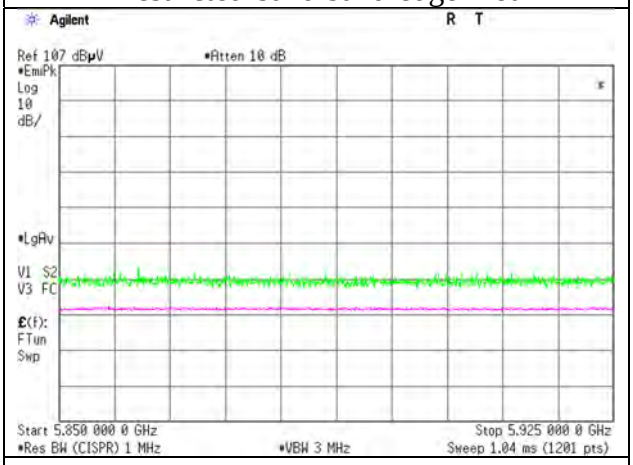
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 8, 2021
Temperature / Humidity	20 deg.C, 60 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-20 MIMO 5825 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission
(Test model number: DNNS124)

Report No.	14071795S-C			
Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	August 10, 2021	August 8, 2021	August 9, 2021	August 10, 2021
Temperature / Humidity	20 deg.C, 51 %RH	20 deg.C, 60 %RH	21 deg.C, 59 %RH	23 deg.C, 60 %RH
Engineer	Yasumasa Owaki	Shiro Kobayashi	Shiro Kobayashi	Takahiro Kawakami
	(30 MHz -1 GHz)	(1 GHz -6.4 GHz)	(6.4 GHz -18 GHz)	(18 GHz -40 GHz)
Mode	Tx 11n-40 MIMO 5190 MHz			

(below 1 GHz and above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	264.850	QP	40.00	12.69	8.38	31.98	0.00	29.09	46.0	16.9	132	140	-
Hori.	301.225	QP	46.20	13.71	8.59	31.98	0.00	36.52	46.0	9.4	142	158	-
Hori.	305.045	QP	45.30	13.78	8.61	31.97	0.00	35.72	46.0	10.2	146	156	-
Hori.	355.975	QP	37.90	15.26	8.86	31.92	0.00	30.10	46.0	15.9	100	303	-
Hori.	5150.000	PK	50.21	32.40	16.58	43.05	2.06	58.20	73.9	15.7	179	288	-
Hori.	15570.000	PK	45.04	39.58	11.60	40.44	-9.54	46.24	73.9	27.6	100	0	-
Hori.	5150.000	AV	39.36	32.40	16.58	43.05	2.06	47.35	53.9	**6.5**	179	288	VBW: 5.6 kHz
Hori.	15570.000	AV	35.21	39.58	11.60	40.44	-9.54	36.41	53.9	17.4	100	0	VBW: 5.6 kHz floor noise
Vert.	52.310	QP	41.60	10.40	6.76	32.17	0.00	26.59	40.0	13.4	100	238	-
Vert.	58.435	QP	47.10	8.58	6.61	32.16	0.00	30.13	40.0	9.8	100	251	-
Vert.	67.415	QP	46.10	6.91	6.62	32.16	0.00	27.47	40.0	12.5	100	258	-
Vert.	206.135	QP	39.80	11.50	8.05	32.04	0.00	27.31	43.5	16.1	100	7	-
Vert.	210.015	QP	40.70	11.32	8.07	32.04	0.00	28.05	43.5	15.4	100	300	-
Vert.	256.540	QP	41.20	12.32	8.34	31.98	0.00	29.88	46.0	16.1	100	88	-
Vert.	290.850	QP	40.10	13.60	8.53	31.98	0.00	30.25	46.0	15.7	100	39	-
Vert.	5150.000	PK	49.55	32.40	16.58	43.05	2.06	57.54	73.9	16.3	105	349	-
Vert.	15570.000	PK	45.05	39.58	11.60	40.44	-9.54	46.25	73.9	27.6	150	0	-
Vert.	5150.000	AV	39.22	32.40	16.58	43.05	2.06	47.21	53.9	6.6	105	349	VBW: 5.6 kHz
Vert.	15570.000	AV	35.28	39.58	11.60	40.44	-9.54	36.48	53.9	17.4	150	0	VBW: 5.6 kHz floor noise

Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

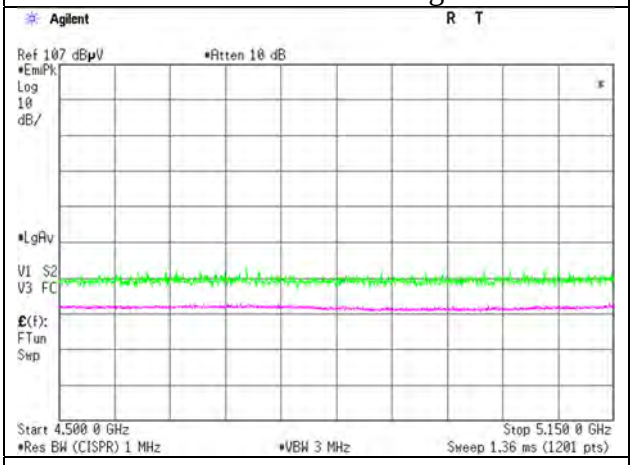
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	10380.000	PK	49.86	36.21	9.38	42.74	-9.54	43.17	-52.06	-27.0	25.0	148	180	-
Vert.	10380.000	PK	50.25	36.21	9.38	42.74	-9.54	43.56	-51.67	-27.0	24.6	132	156	-

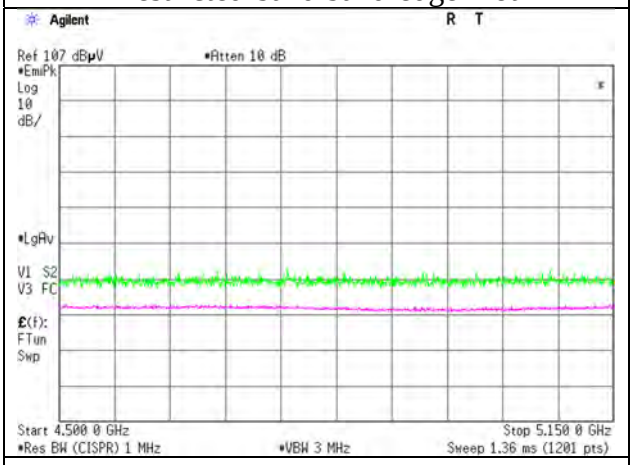
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 8, 2021
Temperature / Humidity	20 deg.C, 60 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11n-40 MIMO 5190 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 8, 2021
Temperature / Humidity	20 deg.C, 60 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-40 MIMO 5190 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

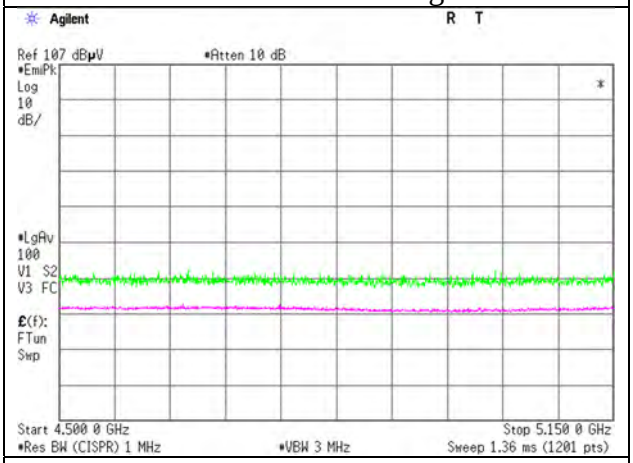
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.46	32.40	16.58	43.05	2.06	57.45	73.9	16.4	175	290	-
Hori.	5150.000	AV	39.11	32.40	16.58	43.05	2.06	47.10	53.9	**6.8**	175	290	VBW: 5.1 kHz
Vert.	5150.000	PK	49.69	32.40	16.58	43.05	2.06	57.68	73.9	16.2	107	347	-
Vert.	5150.000	AV	38.84	32.40	16.58	43.05	2.06	46.83	53.9	7.0	107	347	VBW: 5.1 kHz

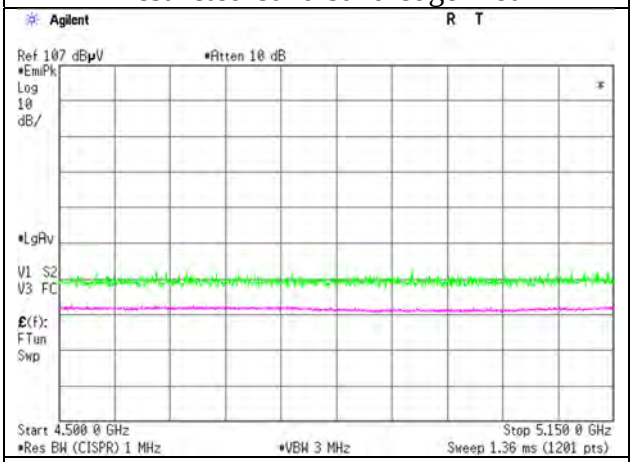
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 8, 2021
Temperature / Humidity	20 deg.C, 60 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-40 MIMO 5190 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 8, 2021
Temperature / Humidity	20 deg.C, 60 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-40 MIMO 5230 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

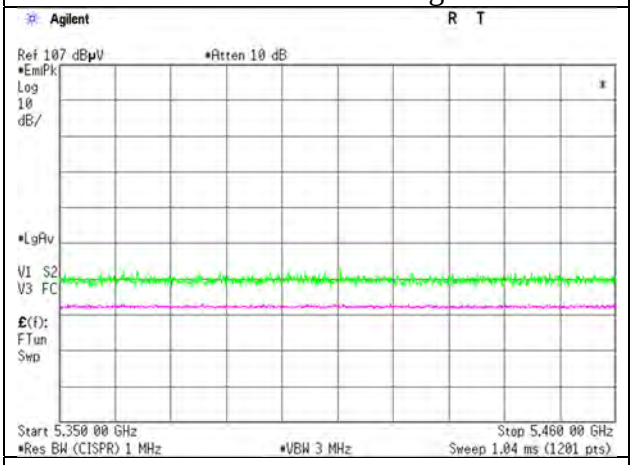
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5350.000	PK	49.99	32.23	16.70	43.26	2.06	57.72	73.9	16.1	107	276	-
Hori.	5350.000	AV	39.39	32.23	16.70	43.26	2.06	47.12	53.9	**6.7**	107	276	VBW 5.1 kHz
Vert.	5350.000	PK	49.98	32.23	16.70	43.26	2.06	57.71	73.9	16.1	124	349	-
Vert.	5350.000	AV	39.43	32.23	16.70	43.26	2.06	47.16	53.9	**6.7**	124	349	VBW 5.1 kHz

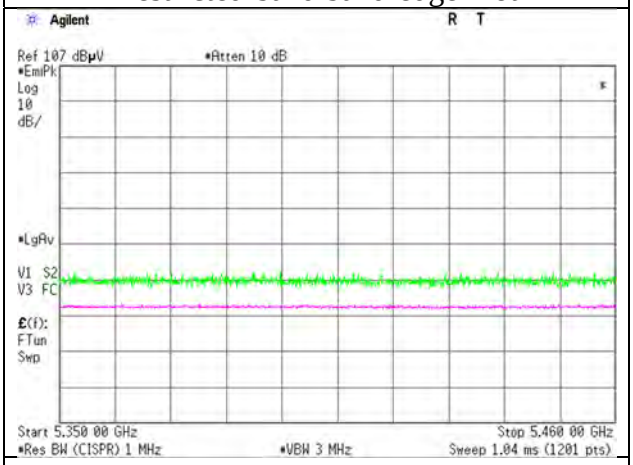
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 8, 2021
Temperature / Humidity	20 deg.C, 60 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-40 MIMO 5230 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 9, 2021
Temperature / Humidity	21 deg.C, 59 %RH
Engineer	Shiro Kobayashi
	(1 GHz -6.4 GHz)
Mode	Tx 11ac-40 MIMO 5755 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

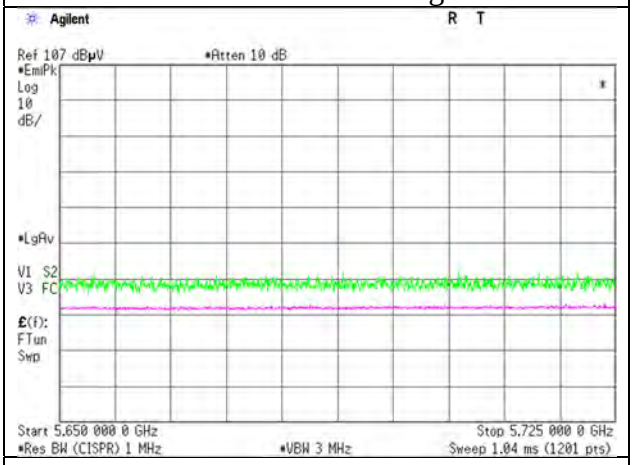
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.93	32.74	16.87	43.42	2.06	57.18	-38.05	-27.0	11.0	113	353	-
Hori.	5700.000	PK	50.09	32.87	16.89	43.42	2.06	58.49	-36.74	10.0	46.7	113	353	-
Hori.	5720.000	PK	51.39	32.93	16.90	43.42	2.06	59.86	-35.37	15.6	50.9	113	353	-
Hori.	5725.000	PK	51.12	32.95	16.90	43.42	2.06	59.61	-35.62	27.0	62.6	113	353	-
Vert.	5650.000	PK	49.70	32.74	16.87	43.42	2.06	57.95	-37.28	-27.0	**10.2**	122	59	-
Vert.	5700.000	PK	49.78	32.87	16.89	43.42	2.06	58.18	-37.05	10.0	47.0	122	59	-
Vert.	5720.000	PK	50.81	32.93	16.90	43.42	2.06	59.28	-35.95	15.6	51.5	122	59	-
Vert.	5725.000	PK	50.94	32.95	16.90	43.42	2.06	59.43	-35.80	27.0	62.8	122	59	-

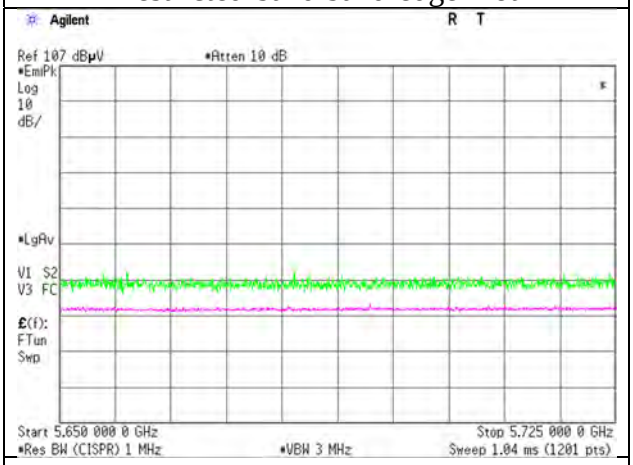
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 9, 2021
Temperature / Humidity	21 deg.C, 59 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-40 MIMO 5755 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 9, 2021
Temperature / Humidity	21 deg.C, 59 %RH
Engineer	Shiro Kobayashi
	(1 GHz -6.4 GHz)
Mode	Tx 11ac-40 MIMO 5795 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

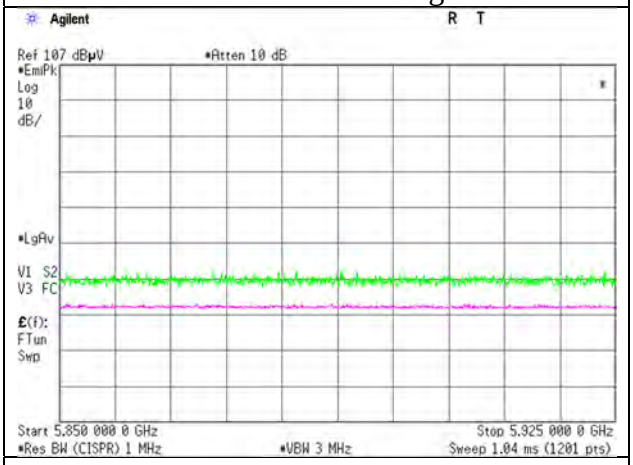
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5850.000	PK	49.75	33.26	16.99	43.43	2.06	58.63	-36.60	27.0	63.6	133	354	-
Hori.	5855.000	PK	49.64	33.27	16.99	43.43	2.06	58.53	-36.70	15.6	52.3	133	354	-
Hori.	5875.000	PK	49.73	33.31	17.01	43.43	2.06	58.68	-36.55	10.0	46.5	133	354	-
Hori.	5925.000	PK	49.25	33.43	17.03	43.43	2.06	58.34	-36.89	-27.0	**9.8**	133	354	-
Vert.	5850.000	PK	49.61	33.26	16.99	43.43	2.06	58.49	-36.74	27.0	63.7	114	358	-
Vert.	5855.000	PK	49.44	33.27	16.99	43.43	2.06	58.33	-36.90	15.6	52.5	114	358	-
Vert.	5875.000	PK	49.37	33.31	17.01	43.43	2.06	58.32	-36.91	10.0	46.9	114	358	-
Vert.	5925.000	PK	49.04	33.43	17.03	43.43	2.06	58.13	-37.10	-27.0	10.1	114	358	-

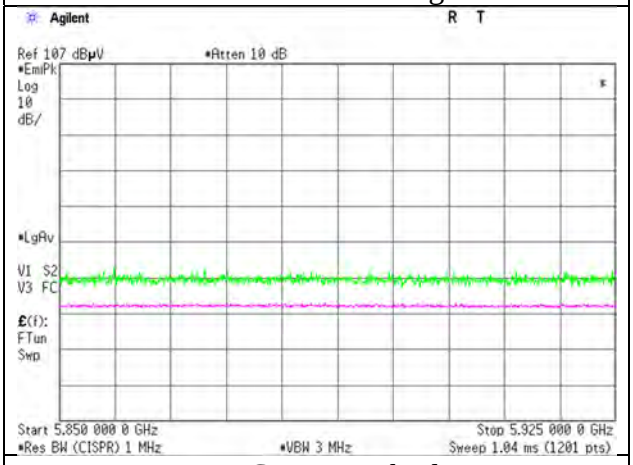
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 9, 2021
Temperature / Humidity	21 deg.C, 59 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-40 MIMO 5795 MHz

Horizontal
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

Vertical
Restricted-band band-edge Plot

Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 9, 2021
Temperature / Humidity	21 deg.C, 59 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-80 MIMO 5210 MHz

(above 1 GHz Inside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

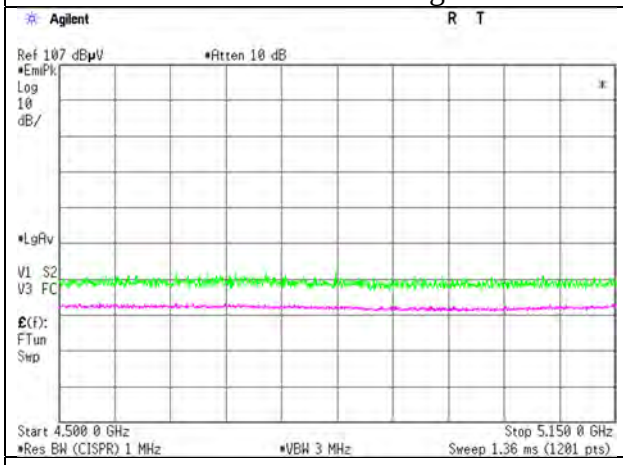
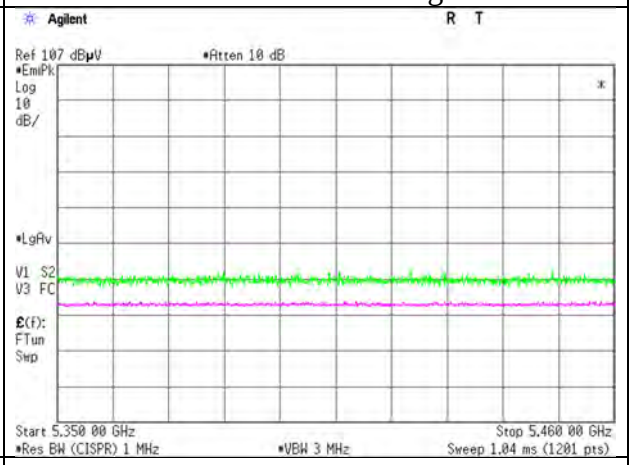
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5150.000	PK	49.19	32.40	16.58	43.05	2.06	57.18	73.9	16.7	159	282	-
Hori.	5350.000	PK	49.46	32.23	16.70	43.26	2.06	57.19	73.9	16.7	159	282	-
Hori.	5150.000	AV	39.93	32.40	16.58	43.05	2.06	47.92	53.9	**5.9**	159	282	VBW: 9.1 kHz
Hori.	5350.000	AV	40.27	32.23	16.70	43.26	2.06	48.00	53.9	**5.9**	159	282	VBW: 9.1 kHz
Vert.	5150.000	PK	49.04	32.40	16.58	43.05	2.06	57.03	73.9	16.8	102	327	-
Vert.	5350.000	PK	49.40	32.23	16.70	43.26	2.06	57.13	73.9	16.7	102	327	-
Vert.	5150.000	AV	39.80	32.40	16.58	43.05	2.06	47.79	53.9	6.1	102	327	VBW: 9.1 kHz
Vert.	5350.000	AV	40.03	32.23	16.70	43.26	2.06	47.76	53.9	6.1	102	327	VBW: 9.1 kHz

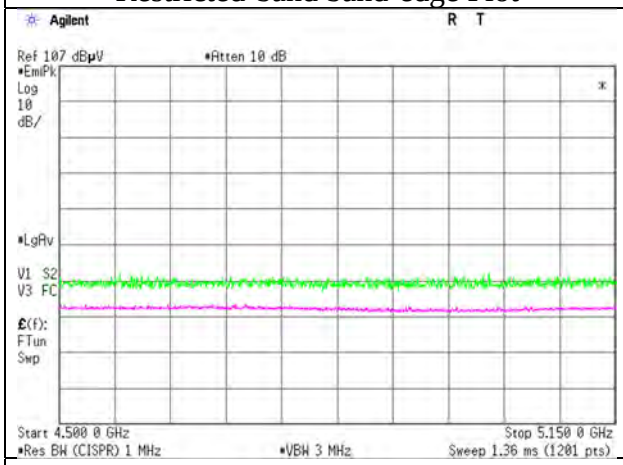
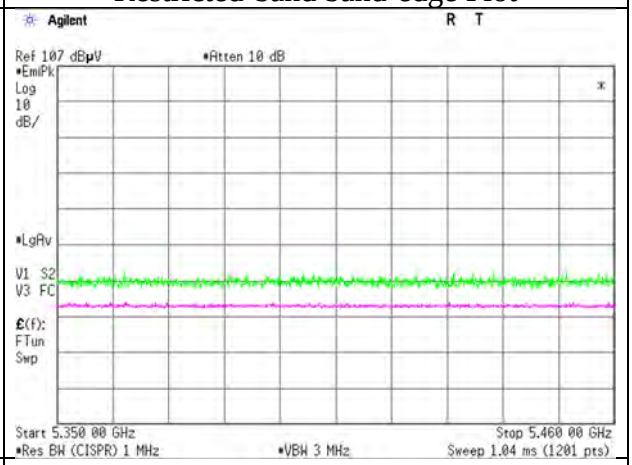
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 9, 2021
Temperature / Humidity	21 deg.C, 59 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-80 MIMO 5210 MHz

Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 9, 2021
Temperature / Humidity	21 deg.C, 59 %RH
Engineer	Shiro Kobayashi
	(1 GHz -6.4 GHz)
Mode	Tx 11ac-80 MIMO 5775 MHz

(Calculation) (above 1 GHz Outside of the restricted band)

(* PK: Peak, AV: Average, QP: Quasi-Peak)

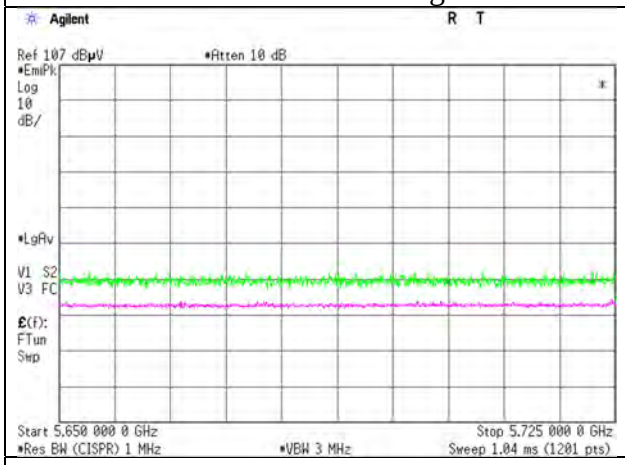
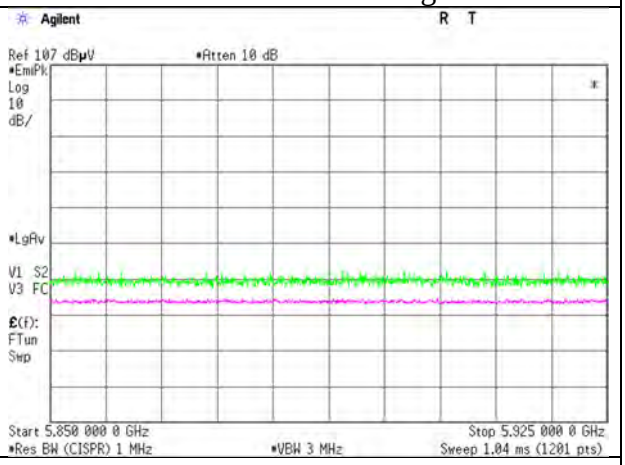
Polarity	Frequency [MHz]	Detector	Reading [dBuV]	Ant.Fac. [dB/m]	Loss [dB]	Gain [dB]	Distance Factor [dB]	Result [dBuV/m]	Result (EIRP) [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [deg.]	Remark
Hori.	5650.000	PK	48.85	32.74	16.87	43.42	2.06	57.10	-38.13	-27.0	11.1	124	352	-
Hori.	5700.000	PK	49.16	32.87	16.89	43.42	2.06	57.56	-37.67	10.0	47.6	124	352	-
Hori.	5720.000	PK	49.90	32.93	16.90	43.42	2.06	58.37	-36.86	15.6	52.4	124	352	-
Hori.	5725.000	PK	50.20	32.95	16.90	43.42	2.06	58.69	-36.54	27.0	63.5	124	352	-
Hori.	5850.000	PK	49.46	33.26	16.99	43.43	2.06	58.34	-36.89	27.0	63.8	124	352	-
Hori.	5855.000	PK	49.15	33.27	16.99	43.43	2.06	58.04	-37.19	15.6	52.7	124	352	-
Hori.	5875.000	PK	49.41	33.31	17.01	43.43	2.06	58.36	-36.87	10.0	46.8	124	352	-
Hori.	5925.000	PK	49.23	33.43	17.03	43.43	2.06	58.32	-36.91	-27.0	**9.9**	124	352	-
Vert.	5650.000	PK	49.88	32.74	16.87	43.42	2.06	58.13	-37.10	-27.0	10.1	122	355	-
Vert.	5700.000	PK	49.15	32.87	16.89	43.42	2.06	57.55	-37.68	10.0	47.6	122	355	-
Vert.	5720.000	PK	49.26	32.93	16.90	43.42	2.06	57.73	-37.50	15.6	53.1	122	355	-
Vert.	5725.000	PK	49.70	32.95	16.90	43.42	2.06	58.19	-37.04	27.0	64.0	122	355	-
Vert.	5850.000	PK	49.12	33.26	16.99	43.43	2.06	58.00	-37.23	27.0	64.2	122	355	-
Vert.	5855.000	PK	49.61	33.27	16.99	43.43	2.06	58.50	-36.73	15.6	52.3	122	355	-
Vert.	5875.000	PK	49.52	33.31	17.01	43.43	2.06	58.47	-36.76	10.0	46.7	122	355	-
Vert.	5925.000	PK	49.05	33.43	17.03	43.43	2.06	58.14	-37.09	-27.0	10.0	122	355	-

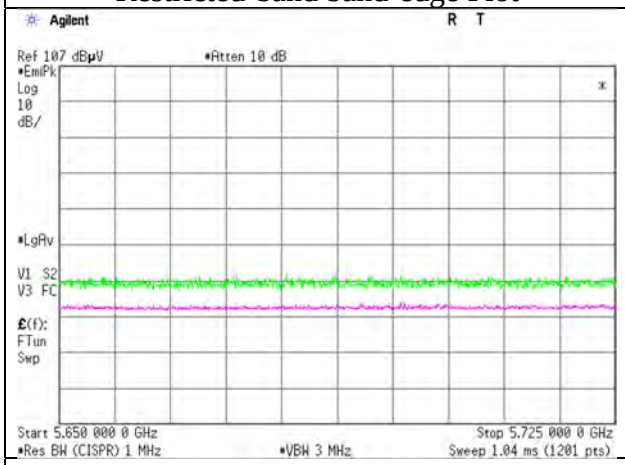
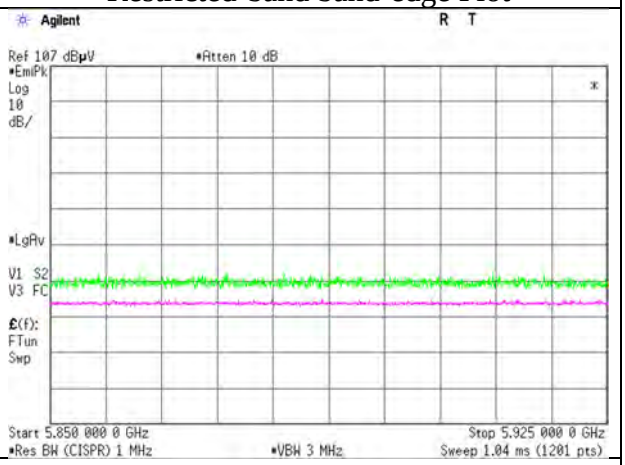
Result [dBuV/m] = Reading + Ant.Fac. + Loss (Cable+(Attenuator or Filter)(below 18 GHz)) - Gain(Amplifier) + Distance factor
Result (EIRP [dBm]) = 10 * LOG ((10 ^ (Electric Field Strength [dBuV/m] / 20) * 10 ^ (-6) * Distance : 3 [m]) ^ 2 / 30 * 10 ^ 3)
*Other frequency noises omitted in this report were not seen or have enough margin (more than 20 dB).
Distance factor : 1 GHz - 10 GHz : 20log (3.80 m / 3.0 m) = 2.06 dB
10 GHz - 40 GHz : 20log (1.0 m / 3.0 m) = -9.54 dB

Radiated Spurious Emission

(Test model number: DNNS124)

Report No.	14071795S-C
Test place	Shonan EMC Lab.
Semi Anechoic Chamber	No.3
Date	August 9, 2021
Temperature / Humidity	21 deg.C, 59 %RH
Engineer	Shiro Kobayashi (1 GHz -6.4 GHz)
Mode	Tx 11ac-80 MIMO 5775 MHz

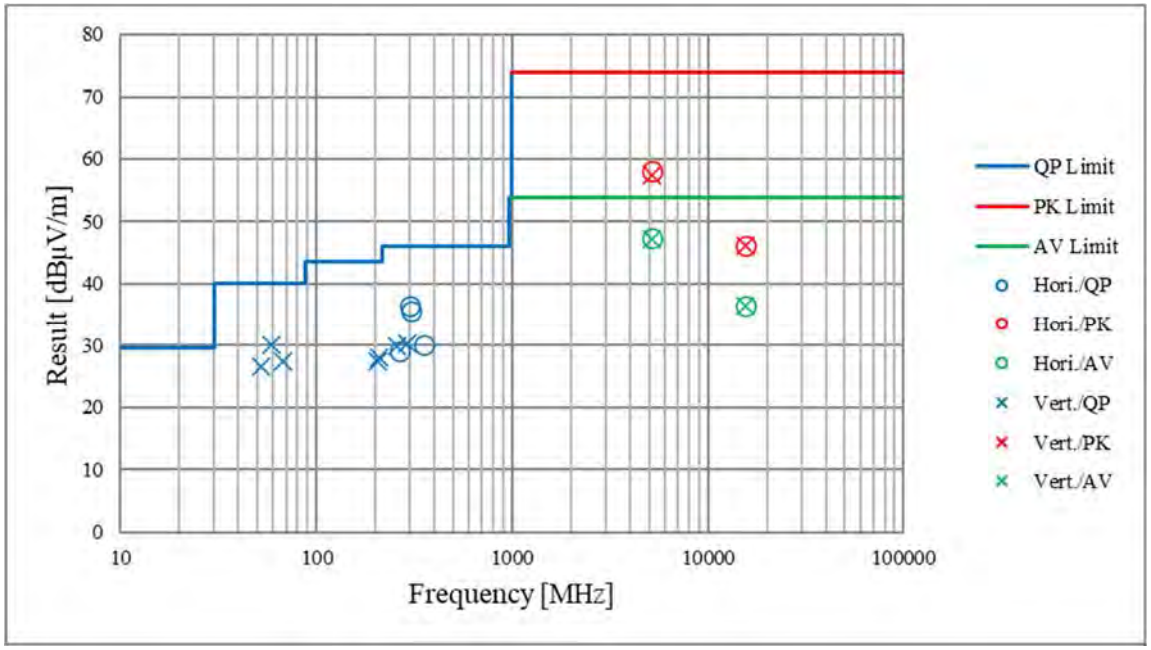
Horizontal	Horizontal
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

Vertical	Vertical
Restricted-band band-edge Plot	Restricted-band band-edge Plot
	
Trace Green: Peak Plot Trace Purple: Average Plot	Trace Green: Peak Plot Trace Purple: Average Plot

* 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.

Radiated Spurious Emission
(Plot data, Worst case)

Report No.	14071795S-C			
Test place	Shonan EMC Lab.			
Semi Anechoic Chamber	No.3	No.3	No.3	No.3
Date	August 10, 2021	August 8, 2021	August 9, 2021	August 10, 2021
Temperature / Humidity	20 deg.C, 51 %RH	20 deg.C, 60 %RH	21 deg.C, 59 %RH	23 deg.C, 60 %RH
Engineer	Yasumasa Owaki	Shiro Kobayashi	Shiro Kobayashi	Takahiro Kawakami
	(30 MHz -1 GHz)	(1 GHz -6.4 GHz)	(6.4 GHz -18 GHz)	(18 GHz -40 GHz)
Mode	Tx 11n-40 MIMO 5190 MHz			



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

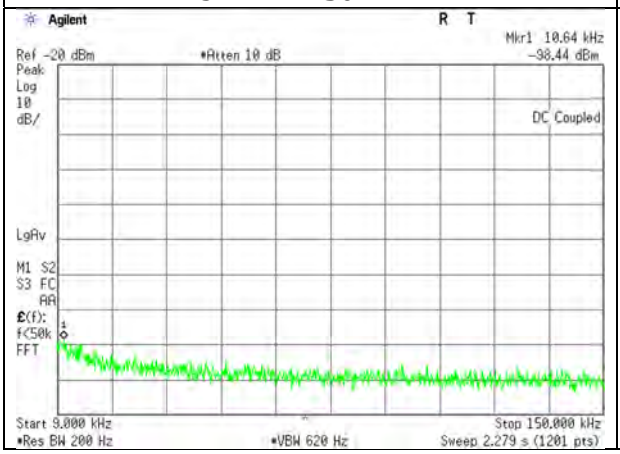
Conducted Spurious Emission

(Test model number: DNNS122)

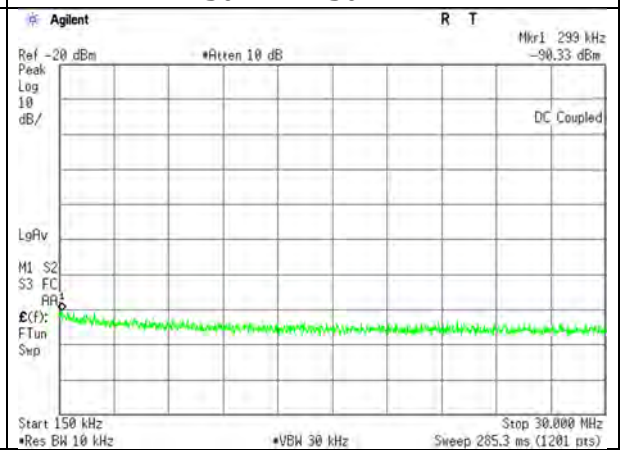
Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 24, 2021
Temperature / Humidity	24 deg. C / 46 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11a 5785 MHz

Chain 0

9 kHz - 150 kHz



150 kHz - 30 MHz



Frequency [kHz]	Reading [dBm]	Cable Loss [dB]	Attenuator [dB]	Antenna Gain* [dBi]	N (Number of Output)	EIRP [dBm]	Distance [m]	Ground bounce [dB]	E (field strength) [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
10.64	-98.44	0.01	9.82	2.00	1	-86.6	300	6.0	-25.4	47.0	72.4	-
299.00	-90.33	0.02	9.82	2.00	1	-78.5	300	6.0	-17.2	18.0	35.2	-

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.

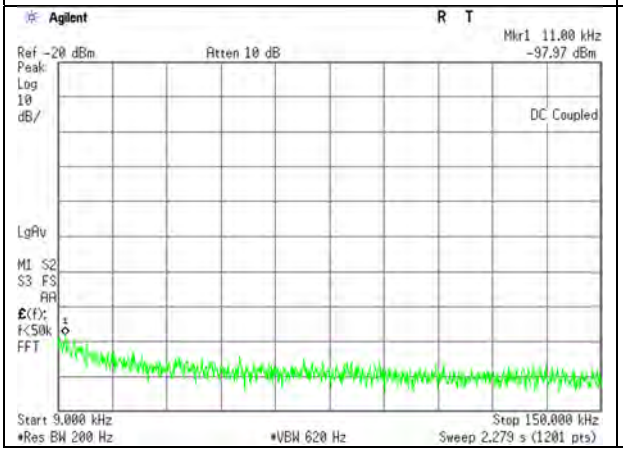
Conducted Spurious Emission

(Test model number: DNNS122)

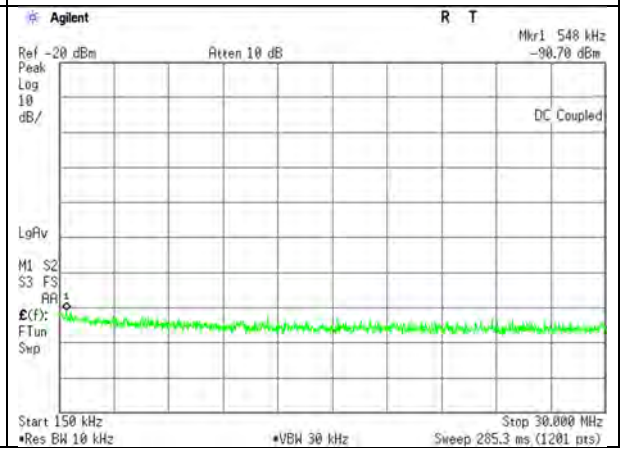
Report No.	14071795S-C
Test place	Shonan EMC Lab. No.5 Shielded Room
Date	February 24, 2021
Temperature / Humidity	24 deg. C / 46 % RH
Engineer	Shiro Kobayashi
Mode	Tx 11ac-20 MIMO 5745 MHz

Chain 0

9 kHz - 150 kHz



150 kHz - 30 MHz



Frequency [kHz]	Reading [dBm]	Cable Loss [dB]	Attenuator [dB]	Antenna Gain* [dBi]	N (Number of Output)	EIRP [dBm]	Distance [m]	Ground bounce [dB]	E (field strength) [dBuV/m]	Limit [dBuV/m]	Margin [dB]	Remark
11.00	-97.97	0.01	9.82	2.00	2	-83.1	300	6.0	-21.9	46.7	68.6	-
548.00	-90.70	0.02	9.82	2.00	2	-75.8	30	6.0	5.4	32.8	27.4	-

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.

APPENDIX 2: Test instruments

Used on February 1 to March 5, 2021 (DNNS122) (1/2)

Test Item	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	KTS-07	145111	Digital Tester	SANWA	PC500	7019232	2020/10/21	12
AT	SAT10-13	151610	Attenuator	Weinschel Corp.	54A-10	81626	2020/03/02	12
AT	SAT10-16	160494	Attenuator	Weinschel Corp.	54A-10	83420	2020/12/21	12
AT	SCC-G63	196946	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	803411/2	2020/03/10	12
AT	SCC-G65	196942	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	803416/2	2020/03/10	12
AT	SOS-27	191845	Humidity Indicator	CUSTOM. Inc	CTH-201	-	2020/09/29	12
AT	SPM-07	146247	Power Meter	Keysight Technologies Inc	8990B	MY5100272	2020/05/27	12
AT	SPSS-04	146310	Power sensor	Keysight Technologies Inc	N1923A	MY5326009	2020/05/27	12
AT	SPSS-05	146311	Power sensor	Keysight Technologies Inc	N1923A	MY5349008	2020/05/27	12
AT	SRENT-15	160899	Spectrum Analyzer	Keysight Technologies Inc	E4440A	MY46185516	2021/01/26	12
AT	SSA-01	146223	Spectrum Analyzer	Keysight Technologies Inc	N9010A-526	MY48031482	2020/11/23	12
AT	STM-G8	171615	Terminator	Weinschel - API Technologies Corp	M1459A	88997	2020/06/03	12
AT	STS-05	146212	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997828	2020/10/19	12
AT,RE	SSA-02	145800	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY48250106	2020/04/16	12
RE	COTS-SEMI-5	170932	EMI Software	TSJ (Techno Science Japan)	TEPTO-DV3(RE,CE,ME,PE)	-	-	-
RE	KJM-02	146432	Measure	TAJIMA	GL19-55	-	-	-
RE	KJM-10	146454	Measure	KOMELON	KMC-36	-	-	-
RE	KSA-08	145089	Spectrum Analyzer	Keysight Technologies Inc	E4446A	MY46180525	2020/11/24	12
RE	SAEC-02(NSA)	145563	Semi-Anechoic Chamber	TDK	SAEC-02(NSA)	2	2020/03/20	12
RE	SAEC-02(SVSWR)	145598	Semi-Anechoic Chamber	TDK	SAEC-02(SVSWR)	2	2020/05/07	12
RE	SAEC-03(SVSWR)	145566	Semi-Anechoic Chamber	TDK	SAEC-03(SVSWR)	3	2020/05/11	12
RE	SAF-02	145004	Pre Amplifier	SONOMA	310N	290212	2021/02/10	12
RE	SAF-05	145128	Pre Amplifier	Toyo Corporation	TPA0118-36	1440490	2020/06/03	12
RE	SAF-06	145005	Pre Amplifier	Toyo Corporation	TPA0118-36	1440491	2021/02/08	12
RE	SAF-08	145007	Pre Amplifier	Toyo Corporation	HAP18-26W	19	2020/03/03	12
RE	SAF-10	145129	Pre Amplifier	Toyo Corporation	HAP26-40W	10	2020/03/03	12
RE	SAT10-05	145136	Attenuator	Keysight Technologies Inc	8493C-010	74864	2020/10/05	12
RE	SAT10-06	145137	Attenuator	Keysight Technologies Inc	8493C-010	74865	2020/10/05	12
RE	SAT3-11	150921	Attenuator	JFW	50HF-003N	-	2021/01/26	12
RE	SAT6-14	167095	Attenuator	JFW	50HF-006N	-	2021/02/10	12
RE	SBA-02	145022	Biconical Antenna	Schwarzbeck Mess - Elektronik	BBA9106	91032665	2020/04/04	12

Used on February 1 to March 5, 2021 (DNNS122) (2/2)

Test Item	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	SCC-B1/B3/B5/B7/B8/B13/SRSE-02	144975	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-270(RF Selector)	2020/04/17	12
RE	SCC-B2/B4/B6/B7/B8/B13/SRSE-02	144976	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-270(RF Selector)	2020/04/17	12
RE	SCC-G15	145176	Coaxial Cable	Suhner	SUCOFLEX 102	32703/2	2020/03/04	12
RE	SCC-G40	166491	Coaxial Cable	Junkosha	MWX221-01000NFSNMS/B	1612S005	2021/01/19	12
RE	SCC-G41	151617	Coaxial Cable	Junkosha	MWX221-01000NFSNMS/B	1612S006	2021/01/19	12
RE	SCC-G43	156380	Coaxial Cable	Huber+Suhner	SUCOFLEX_104_E	SN MY 13406/4E	2020/06/04	12
RE	SCC-G44	168300	Coaxial Cable	Huber+Suhner	SUCOFLEX 104	800375/4A	2020/11/20	12
RE	SCC-G50	178573	Coaxial Cable	Huber+Suhner	SUCOFLEX_104_E	MY13407/4E	2020/03/09	12
RE	SCC-G51	178572	Coaxial Cable	Huber+Suhner	SUCOFLEX 104	800288 /4A	2020/03/09	12
RE	SCC-G57	179540	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	802815/2	2020/05/12	12
RE	SFL-03	145377	Highpass Filter	MICRO-TRONICS	HPM50112	28	2020/10/05	12
RE	SHA-02	145384	Horn Antenna	Schwarzbeck Mess - Elektronik	BBHA9120D	9120D-726	2020/06/15	12
RE	SHA-03	145501	Horn Antenna	Schwarzbeck Mess - Elektronik	BBHA9120D	9120D-739	2020/06/15	12
RE	SHA-04	145512	Horn Antenna	ETS-Lindgren	3160-09	00094868	2020/06/15	12
RE	SHA-06	145514	Horn Antenna	ETS-Lindgren	3160-10	00092383	2020/07/16	12
RE	SHA-09	194684	Horn Antenna	Schwarzbeck Mess - Elektronik	BBHA 9120 C	695	2021/03/03	12
RE	SLA-06	145528	Logperiodic Antenna	Schwarzbeck Mess - Elektronik	VUSLP9111B	195	2020/04/04	12
RE	SOS-21	191838	Humidity Indicator	CUSTOM. Inc	CTH-201	-	2020/09/28	12
RE	SOS-23	191840	Humidity Indicator	CUSTOM. Inc	CTH-201	-	2020/09/28	12
RE	STR-07	146209	Receiver, EMI	Rohde & Schwarz	ESU26	100484	2020/09/07	12
RE	STS-02	145793	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997819	2020/04/09	12
RE	STS-03	146210	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997823	2020/10/19	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: RE: Radiated Emission test
AT: Antenna Terminal Conducted test

Used on August 8 to 13, 2021 (DNNS124) (1/2)

Test Item	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
AT	SAT10-21	204925	Attenuator	Weinschel Corp.	54A-10	-	2021/02/09	12
AT	SAT10-22	204926	Attenuator	Weinschel Corp.	54A-10	-	2021/02/09	12
AT	SCC-G66	196947	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	803478/2	2021/03/01	12
AT	SCC-G67	196949	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	803480/2	2021/03/01	12
AT	SOS-24	191841	Humidity Indicator	CUSTOM. Inc	CTH-201	-	2020/10/01	12
AT	SPM-13	169910	Power Meter	Keysight Technologies Inc	8990B	MY51000448	2021/01/25	12
AT	SPSS-06	169911	Power sensor	Keysight Technologies Inc	N1923A	MY57270004	2021/01/25	12
AT	SPSS-07	169912	Power sensor	Keysight Technologies Inc	N1923A	MY57290005	2021/01/25	12
AT,RE	STS-03	146210	Digital Hitester	HIOKI E.E. CORPORATION	3805-50	80997823	2020/10/19	12
RE	COTS-SEMI-5	170932	EMI Software	TSJ (Techno Science Japan)	TEPTO-DV3(RE,CE,ME,PE)	-	-	-
RE	KFL-15	144938	Highpass Filter	MICRO-TRONICS	HPM50112	7	2020/10/05	12
RE	KJM-02	146432	Measure	TAJIMA	GL19-55	-	-	-
RE	SAEC-03(NSA)	145565	Semi-Anechoic Chamber	TDK	SAEC-03(NSA)	3	2021/04/27	12
RE	SAEC-03(SVSWR)	145566	Semi-Anechoic Chamber	TDK	SAEC-03(SVSWR)	3	2021/05/21	12
RE	SAF-03	145126	Pre Amplifier	SONOMA	310N	290213	2021/02/10	12
RE	SAF-06	145005	Pre Amplifier	Toyo Corporation	TPA0118-36	1440491	2021/02/08	12
RE	SAF-08	145007	Pre Amplifier	Toyo Corporation	HAP18-26W	19	2021/03/01	12
RE	SAF-10	145129	Pre Amplifier	Toyo Corporation	HAP26-40W	10	2021/03/01	12

Used on August 8 to 13, 2021 (DNNS124) (2/2)

Test Item	Local ID	LIMS ID	Description	Manufacturer	Model	Serial	Last Calibration Date	Cal Int
RE	SAT10-05	145136	Attenuator	Keysight Technologies Inc	8493C-010	74864	2020/10/05	12
RE	SAT10-06	145137	Attenuator	Keysight Technologies Inc	8493C-010	74865	2020/10/05	12
RE	SAT6-13	167094	Attenuator	JFW	50HF-006N	-	2021/02/10	12
RE	SBA-03	145023	Biconical Antenna	Schwarzbeck Mess-Elektronik OHG	BBA9106	91032666	2021/05/15	12
RE	SCC-C1/C2/C3/C4/C5/C10/SRSE-03	145171	Coaxial Cable&RF Selector	Fujikura/Fujikura/Suhner/Suhner/Suhner/TOYO	8D2W/12DSFA/141PE/141PE/141PE/141PE/NS4906	-/0901-271(RF Selector)	2021/04/12	12
RE	SCC-G15	145176	Coaxial Cable	Suhner	SUCOFLEX 102	32703/2	2021/03/01	12
RE	SCC-G40	166491	Coaxial Cable	Junkosha	MWX221-01000NFSNMS/B	1612S005	2021/01/19	12
RE	SCC-G43	156380	Coaxial Cable	Huber+Suhner	SUCOFLEX_104_E	SN MY 13406/4E	2021/05/17	12
RE	SCC-G57	179540	Coaxial Cable	Huber+Suhner	SUCOFLEX 102	802815/2	2021/05/18	12
RE	SCC-G58	183047	Coaxial Cable	Huber+Suhner	SUCOFLEX 104	800287/4A	2021/05/17	12
RE	SCC-G70	200010	Coaxial Cable	Huber+Suhner	SUCOFLEX 104	575618/4	2021/07/06	12
RE	SHA-03	145501	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA9120D	9120D-739	2021/06/14	12
RE	SHA-04	145512	Horn Antenna	ETS-Lindgren	3160-09	00094868	2021/06/14	12
RE	SHA-06	145514	Horn Antenna	ETS-Lindgren	3160-10	00092383	2021/06/14	12
RE	SHA-10	194685	Horn Antenna	Schwarzbeck Mess-Elektronik OHG	BBHA 9120 C	711	2021/03/03	12
RE	SLA-07	145529	Logperiodic Antenna	Schwarzbeck Mess-Elektronik OHG	VUSLP9111B	196	2021/05/15	12
RE	SOS-23	191840	Humidity Indicator	CUSTOM. Inc	CTH-201	-	2021/08/02	12
RE	SSA-02	145800	Spectrum Analyzer	Keysight Technologies Inc	E4448A	MY48250106	2021/04/13	12
RE	STR-08	150463	Test Receiver	Rohde & Schwarz	ESW44	101581	2020/12/02	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: **RE: Radiated Emission test**
AT: Antenna Terminal Conducted test