

RADIO TEST REPORT

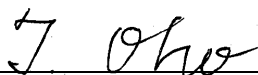
(for 2.4 GHz WLAN)

Project No. : JB-Z0541-B
Client : Sony Corporation
Client's Address : 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Product Name : Digital Media Player
Model No. : NW-A105
FCC ID : AK8NWA100
Test Standard : 47 CFR Part 15 Subpart C
Sample Receipt Date : May 21, 2019
Test Date : June 7, 2019 to June 19, 2019
Original Report Date : July 5, 2019
Amend Report Date : August 1, 2019
Test Result : Complied

Notice:

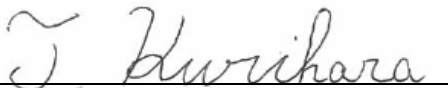
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- * All test results are traceable to the national and/or international standards.
- * The testing in which "Non-accreditation" is displayed is outside the accreditation scopes in Sony Global Manufacturing & Operations Corporation EMC/RF Test Laboratory.
- * This report replaces and supersedes all previous versions. Refer to Revision History on the following page.

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Format No.: NV1-1-01 Version 5.0

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Note

- ☒-indicates that the listed condition, standard or equipment is applicable for this report.
☐-indicates that the listed condition, standard or equipment is not applicable for this report.

Revision History

Revision	Date	Overview	Page
JB-Z0541 (Original)	July 5, 2019	-	-
JB-Z0541-A	July 26, 2019	Add procedures and measurement facility drawings for spurious.	P.7,13
JB-Z0541-B	August 1, 2019	Add procedures and measurement facility drawings for spurious emission.	P.7,13

1. General Information

1.1. Description of Equipment Under Test (EUT)

General Specification

Test Sample Condition : ☐ Prototype ☒ Pre-production ☐ Mass-production
 Product Name : Digital Media Player
 Trade Name : SONY
 Model No. : NW-A105
 Serial No. : 2, 3, 5
 Power Rating of the EUT : DC 3.7 V (Internal Battery) or DC 5 V (USB)

Similar model(s) to be covered by this report

Model No. : None

Radio Specification

Function of the Equipment : Transceiver

Operating Frequency :

IEEE Standard	Operating Frequency Band	Channel Spacing	Bandwidth	Number of Channel
802.11b	2412 MHz to 2462 MHz	5 MHz	20 MHz	11
802.11g	2412 MHz to 2462 MHz	5 MHz	20 MHz	11
802.11n-HT20	2412 MHz to 2462 MHz	5 MHz	20 MHz	11

Modulation Type :

IEEE Standard	Type of modulation
802.11b	DSSS (DBPSK, DQPSK)
802.11g	OFDM (BPSK, QPSK, 16QAM, 64QAM)
802.11n	OFDM (BPSK, QPSK, 16QAM, 64QAM)

Antenna Type : Inverted-F Antenna

Antenna Connector Type : None

Antenna Gain : 2.0 dBi

Operating Temperature : +5 to +35 deg.C

1.2. Summary of Test Result

Test Item	Test Method	Worst Margin	Results	Note
AC Power-line Conducted Emissions	Conducted	15.9 dB (QP) 0.175 MHz L1	Complied	-
6dB Bandwidth	Conducted	Refer to the test data	Complied	-
Maximum Conducted Output Power	Conducted	4.52 dB	Complied	-
Power Spectral Density	Conducted	1.12 dB	Complied	-
Radiated Spurious Emissions	Radiated	2.1 dB (AV) 2390.000 MHz Horizontal	Complied	-
Conducted Spurious Emissions for Band Edge	Conducted	12.66 dB 2399.94 MHz	Complied	*1

Note

*1: Conducted Spurious Emissions measurement was tested for the only frequencies in the non-restricted carrier band edges, since the spurious emissions in other non-restricted band were complied with Radiated Spurious Emissions measurement.

Other requirements

Part 15.31(e) Supply voltage requirement

: Complied (The voltage supplied from USB or battery are converted to regulated DC voltage by the built-in power circuit of the EUT.)

Part 15.203 / 212 Antenna requirement

: Complied (The EUT has an internal antenna which can't be replaced by users.)

1.3. Tested Methodology

Test Standard : 47 CFR Part15 Subpart C
 Test Method : ANSI C63.10 - 2013
 KDB 558074 D01 15.247 Meas Guidance v05r02

Test Condition

AC Power-line Conducted Emissions

Dimensions of the EUT table : 0.8 m height, 1.5 m width and 1 m depth.

Radiated Spurious Emissions

Test Distance : ☒ 3 m ☐ 10m (9 kHz to 30 MHz)
☒ 3 m ☐ 10m (30 MHz to 1000 MHz)
☒ 3 m (1 GHz to 26.5 GHz)

Dimensions of the EUT table : 0.8 m (below 1 GHz) or 1.5 m (above 1 GHz) height, 1.5 m width and 1 m depth.

Dimensions of validated test volume : 2 m diameter, 3 m top height, 0.5 m bottom height.

1.4. Measurement Procedures

We performed the measurements in accordance with NV3-06, available upon the request.

- ☒ No deviation
☐ Deviation from the above procedure

The summary of the above procedure is mentioned below

AC Power-line Conducted Emissions

1. The non-conductive table (EUT table) made of (☒ FRP, ☐ wood, ☐ other non-conductive material) was placed 0.4 m from its rear to the vertical reference ground plane.
2. The EUT was placed on the center of tabletop and its rear was flush with the rear of the table, connected through a LISN to the input power mains.
3. The LISN was placed in 80 cm from the nearest part of the EUT chassis.
4. The excess length of the AC cable between the EUT and the LISN receptacle, or an adaptor or extension cable connected to and measured with LISN, was folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
5. The connection of the all other equipment to the second LISN was performed. The second LISN was terminated with a 50-ohm terminator.
6. Interconnecting cables that hang closer than 40 cm to the horizontal reference ground plane was folded back and forth forming a bundle 30 to 40 cm long, hanging approximately in the middle between the horizontal reference ground plane and the tabletop.
7. Find the worst mode and arrangement of the EUT according to the follows;
 - Connecting all peripherals and change the position of peripherals and cables.
 - Changing the all test operation modes of the EUT.
 - On every condition, exploring the highest emissions with the spectrum analyzer.
(150 kHz to 30 MHz, peak detector, RBW: 10 kHz)
8. On the worst condition of the EUT found in above, choose the six highest emissions on the spectrum data.
 The final measurements carried out on these emissions with EMI test receiver.
 (quasi-peak and average detector, RBW: 9 kHz)

Antenna-port Conducted Measurements

1. Antenna-port of the EUT was connected to the power sensor (Maximum Peak Conducted Output Power) or the spectrum analyzer. (other test items).
2. For each EUT operation mode, the Antenna-port Conducted Measurements were measured with the power sensor or the spectrum analyzer.

Test Item Antenna-port Conducted Measurements	Detector	RBW
	802.11b/g/n-HT20	
6dB Bandwidth	Peak	100 kHz
Maximum Conducted Output Power	Peak	-
Power Spectral Density	Peak	100kHz (802.11b) 3 kHz (802.11g/n-HT20)
Conducted Spurious Emissions for Band Edge	Peak	100 kHz

Radiated Spurious Emissions

1. The non-conductive table (EUT table) made of (☐ FRP, ☒ Styrene Foam, ☐ other non-conductive material) was placed in the center of the turntable.
2. The EUT was placed on the center of the tabletop.
3. The test antenna was placed away from the EUT at test distance.
4. The limits were compensated the distance factor with follows:

$$9 \text{ kHz to } 490 \text{ kHz [Limit at 3 m]} = [\text{Limit at 300 m}] + 40\log(300[\text{m}] / 3[\text{m}])$$

$$490 \text{ kHz to } 30 \text{ MHz [Limit at 3 m]} = [\text{Limit at 30 m}] + 40\log(30[\text{m}] / 3[\text{m}])$$
5. Find the worst arrangement of the EUT according to follows;
 - Rotating the turntable and/or scanning the antenna.
 - On every condition, exploring the highest emissions with the spectrum analyzer.
(9 kHz to 26.5 GHz, peak detector)
6. On the worst arrangement of the EUT found in above, choose the six highest harmonics or spurious emissions on the spectrum data. (*excluding carrier band edges)
 The final measurements of all test operating modes carried out on these emissions as follows;

The test antenna and the turntable were performed with follows;

	9 kHz to 30 MHz	30 MHz to 1000 MHz	1 GHz to 26.5 GHz
Antenna	Loop Antenna	Bi-conical Antenna, Log-periodic Antenna	Horn Antenna
Antenna scanning range	1 m, Vertical, 360 degrees	1 m to 4 m, Horizontal and Vertical	1 m to 4 m *, Horizontal and Vertical
Turntable rotating range	360 degrees	360 degrees	360 degrees

*: When the measurement frequencies above 1 GHz, final measurements are performed keeping the antenna in the "cone of radiation" from EUT area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.

Instruments settings were carried out with follows;

	9 kHz to 90 kHz 110 kHz to 490 kHz	90 kHz to 110 kHz 490 kHz to 30 MHz	30 MHz to 1000 MHz	1 GHz to 26.5 GHz
Detector	Peak / Average	Quasi-peak	Quasi-peak	Peak / Average
RBW	200 Hz (6 dB) or 9 kHz (6 dB) *1	200 Hz (6 dB) or 9 kHz (6 dB) *1	120 kHz (6 dB)	1 MHz (6 dB)
VBW	N/A	N/A	N/A	3 MHz (for peak) 10 kHz (for average) *2
Instrument	EMI test receiver	EMI test receiver	EMI test receiver	Spectrum analyzer

*1: When the measurement frequencies below 150 kHz, RBW: 200 Hz was used.

*2: VBW setting (for average) was higher than 1/T. (T is the minimum transmission duration)

7. If the final measurement result exceeded the limit in non-restricted band(excluding carrier band edges), the measurement is carried out additionally with follows;

Measurement points

- Fundamental Frequency
- Frequency that exceeded the limit in non-restricted band (excluding carrier band edges)

	9 kHz to 150 kHz	150 kHz to 30 MHz	30 MHz to 26.5 GHz
Detector	Peak	Peak	Peak
RBW	300 Hz (6 dB) *	10 kHz (6 dB) *	100 kHz (6 dB)
Instrument	Spectrum analyzer	Spectrum analyzer	Spectrum analyzer

*: Correction factor of RBW was compensated to a measurement result by the following formula.

$$\text{C.F. of RBW [dB]} = 10 \cdot \log(100 \text{ kHz} / \text{used RBW})$$

8. If the final average measurement result exceeded the limit in the authorized band edge, the integration method is carried out with follows;

	2.4835 GHz to 2.4855 GHz
Detector	Peak
RBW	100 kHz (6 dB)
Instrument	Spectrum analyzer
Function	Channel Power (integration BW : 1 MHz)

9. Although these tests for below 30MHz were performed other than open field area test site, adequate comparison measurements were confirmed against 30 m open field area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788 D01.

Further these test for above 1GHz were performed test site complied with CISPR 16-1-4.

In the case of EUT size smaller than the validated test volume, the antenna position is adjusted such that the distance between the EUT and the antenna reference point is identical to the 3m used for the S-VSWR validation measurements. These method based on clause 7.3.1 of CISPR16-1-4 Edition 4, therefore correcting distance factor is not applied.

1.5. Test Location

Test Facility Name : Sony Global Manufacturing & Operations Corporation
EMC/RF Test Laboratory, Main Lab.
Address : 8-4 Shiomi Kisarazu-shi Chiba-ken, 292-0834, Japan
Phone : +81 438 37 2750

A2LA Certificate No. : 3203.01
Cert. Validated Date : Oct. 31, 2019

AC Power-line Conducted Emissions

Shielded Room

☐ 4th Site ☒ EMC Site

Antenna-port Conducted Measurements

Shielded Room

☒ 4th Site SR1

Radiated Spurious Emissions

Semi-Anechoic chamber

☐ 4th Site ☒ EMC Site

1.6. Uncertainty

Test Item	Frequency	4th Site SR1
Maximum Conducted Output Power	1 GHz to 6 GHz	± 0.84 dB
Power Spectral Density, Conducted Spurious Emissions	below 6 GHz	± 1.25 dB

Test Item	Frequency	Distance	4th Site	EMC Site
AC Power-line Conducted Emissions	150 kHz to 30 MHz	-	± 3.34 dB	± 3.35 dB
Radiated Emissions	9 kHz to 30 MHz	3m	± 2.60 dB	± 3.13 dB
	30 MHz to 1000 MHz	3m	± 4.96 dB	± 5.26 dB
	1 GHz to 18 GHz	3m	± 5.22 dB	± 5.50 dB
	18 GHz to 26.5 GHz	3m	± 5.36 dB	± 5.63 dB

2. Test Specification

2.1. Validation

The system was configured for testing in a typical (as a customer would normally use it).
The tests were conducted with the worst-case modes as follows.

2.2. Operating Condition

The tests have been carried out the following conditions.

[Transmitting mode]

Test Items	Test Channels	Worst Data Rate *1
AC Power-line Conducted Emissions *2	2412 MHz	802.11b : 2 Mbps
Radiated Spurious Emissions (below 1GHz) *2	2412 MHz	802.11b : 2 Mbps
6dB Bandwidth, Maximum Conducted Output Power, Power Spectral Density, Radiated Spurious Emissions (above 1GHz)	2412 MHz 2437 MHz 2462 MHz	802.11b : 2 Mbps 802.11g : 24 Mbps 802.11n(HT20) : MCS6
Conducted Spurious Emissions for Band Edge	2412 MHz	802.11b : 2 Mbps 802.11g : 24 Mbps 802.11n(HT20) : MCS6

Note

*1: The worst data rate has been decided based on the result of Maximum Conducted Output Power.

*2: The test was performed with the representative mode that had been found as the worst emissions while exploratory testing.

The Software for Operating Mode

Software Name : LBEE5ZZ1PJ-331 RF Test
Software Version : 0.6

2.3. Special Accessories

Special accessories needed for connecting the EUT to achieve compliance:

Item	Manufacturer	Model No.	Serial No.	Remark
-	-	-	-	-

2.4. EUT Modifications

- ☒ No equipment modification to achieve compliance to the standard levels was done during the tests.
☐ Equipment was modified to achieve compliance to the standard level as below.

Responsible Party Signature

Typed/ Print Name	:
Responsible Party	:
Position	:
Date	:

2.5. Configuration of EUT System

AC Power-line Conducted Emissions

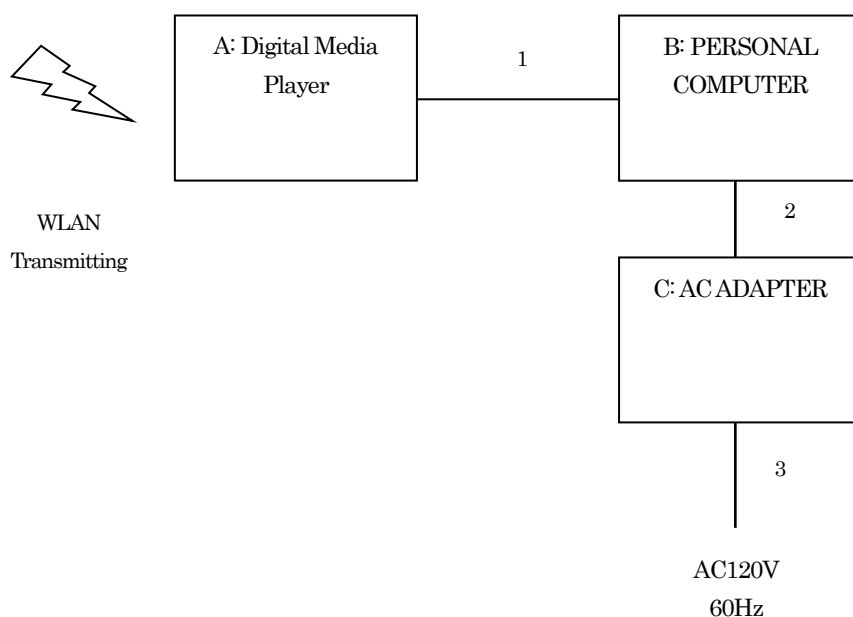
[EUT and Associated Equipment (AE)]

Symbol	EUT/ AE	Item	Manufacturer	Model No.	Serial No.
A	EUT	Digital Media Player	SONY	NW-A105	3
B	AE	PERSONAL COMPUTER	SONY	VJS131C11N	4120398
C	AE	AC ADAPTER	SONY	VJ8AC10V9	274969

[Type of Cable]

Symbol	Description	Identification (Manufacturer etc.)	Shielded Yes / No	Ferrite Core	Length (m)	Bundled
1	USB Cable	Kailai	Yes	No	0.5	No
2	DC Cable	-	No	No	1.8	Yes
3	AC Cable	-	No	No	1.5	Yes

[Connecting Diagram]



Antenna-port Conducted Measurements

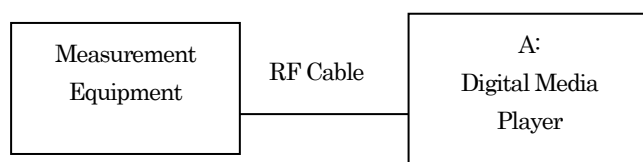
[EUT and Associated Equipment (AE)]

Symbol	EUT/ AE	Item	Manufacturer	Model No.	Serial No.
A	EUT	Digital Media Player	SONY	NW-A105	5

[Type of Cable]

Symbol	Description	Identification (Manufacturer etc.)	Shielded Yes / No	Ferrite Core	Length (m)	Bundled
-	-	-	-	-	-	-

[Connecting Diagram]

**Radiated Spurious Emissions**

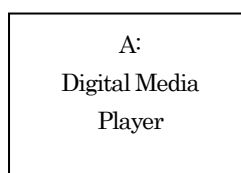
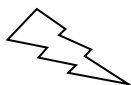
[EUT and Associated Equipment (AE)]

Symbol	EUT/ AE	Item	Manufacturer	Model No.	Serial No.
A	EUT	Digital Media Player	SONY	NW-A105	2

[Type of Cable]

Symbol	Description	Identification (Manufacturer etc.)	Shielded Yes / No	Ferrite Core	Length (m)	Bundled
-	-	-	-	-	-	-

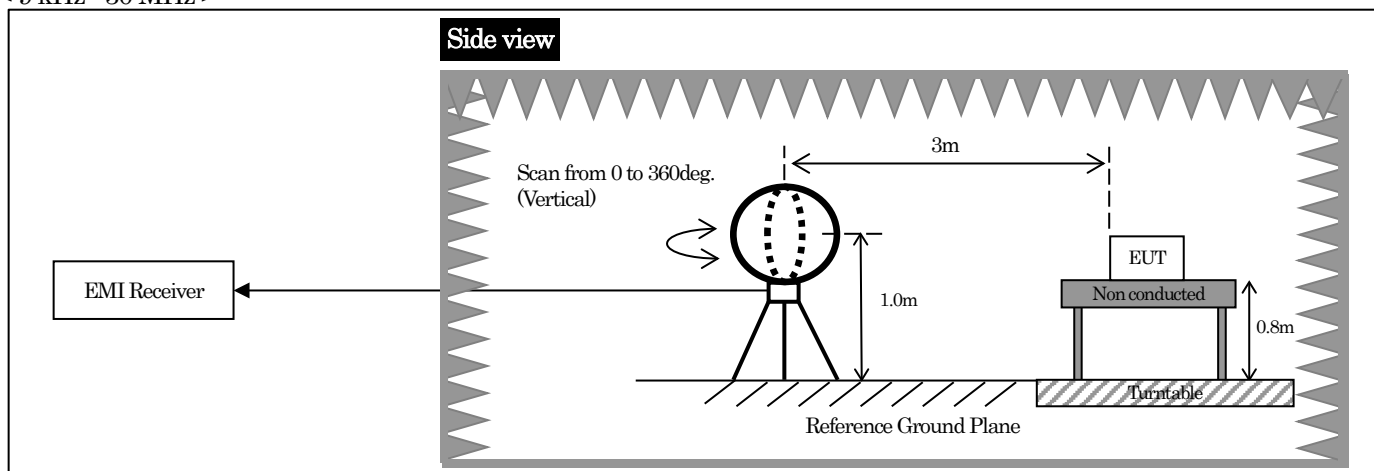
[Connecting Diagram]

WLAN
Transmitting

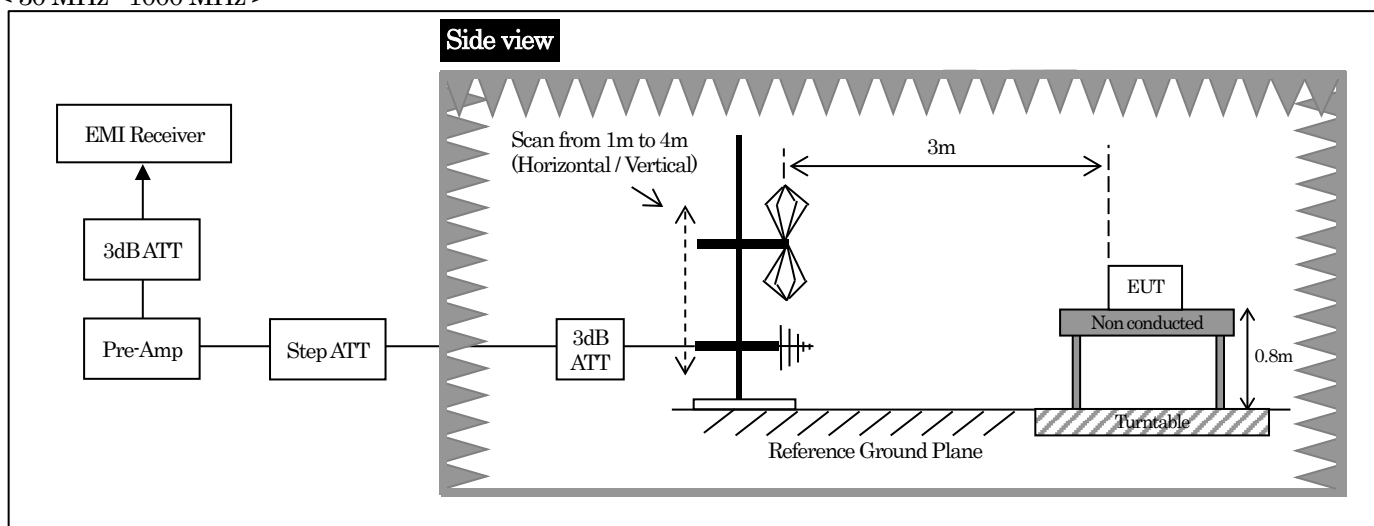
2.6. View of Measurement Facility

Radiated spurious emissions

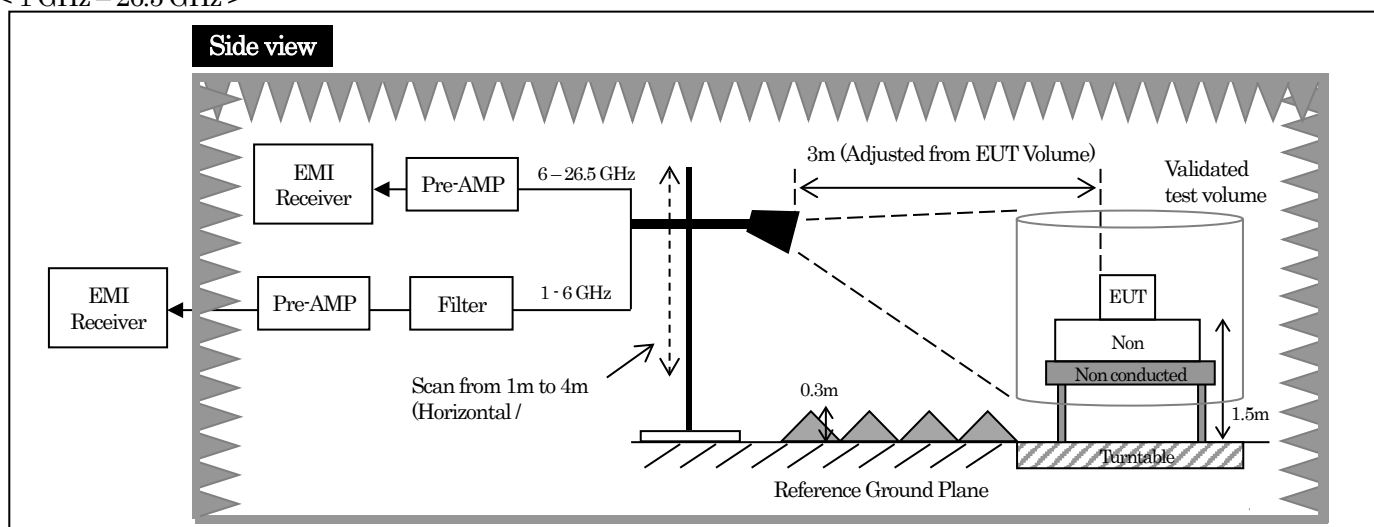
< 9 kHz - 30 MHz >



< 30 MHz - 1000 MHz >



< 1 GHz - 26.5 GHz >



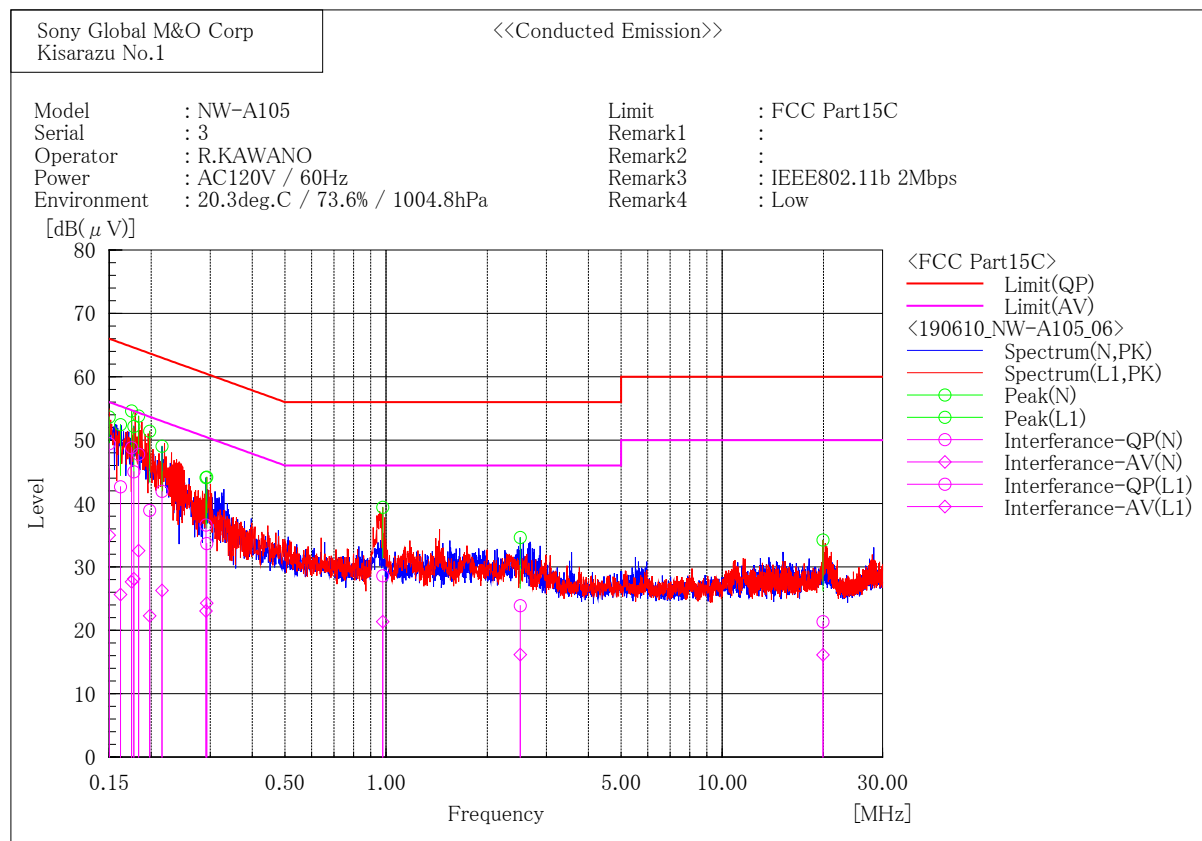
3. Test Data

3.1. AC Power-line Conducted Emissions

1) Date of measurement : June 10, 2019

The test data is mentioned as follows.

[802.11b/ 2412 MHz]



Final Result

--- N Phase ---

No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.150	33.5	19.1	15.9	49.4	35.0	66.0	56.0	16.6	21.0
2	0.162	26.4	9.4	16.2	42.6	25.6	65.4	55.4	22.8	29.8
3	0.178	28.8	11.9	16.2	45.0	28.1	64.6	54.6	19.6	26.5
4	0.216	26.1	10.5	15.8	41.9	26.3	63.0	53.0	21.1	26.7
5	0.291	20.8	7.2	15.8	36.6	23.0	60.5	50.5	23.9	27.5
6	2.508	8.0	0.2	15.9	23.9	16.1	56.0	46.0	32.1	29.9

--- L1 Phase ---

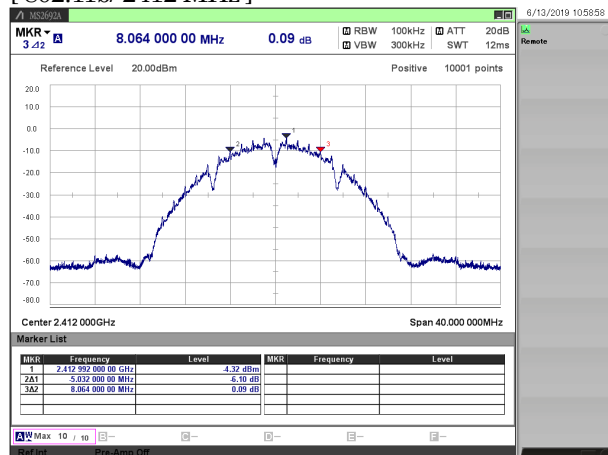
No.	Frequency	Reading QP	Reading AV	c. f	Result QP	Result AV	Limit QP	Limit AV	Margin QP	Margin AV
	[MHz]	[dB(μV)]	[dB(μV)]	[dB]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB(μV)]	[dB]	[dB]
1	0.175	32.5	11.4	16.3	48.8	27.7	64.7	54.7	15.9	27.0
2	0.184	31.6	16.4	16.2	47.8	32.6	64.3	54.3	16.5	21.7
3	0.198	22.9	6.3	16.0	38.9	22.3	63.7	53.7	24.8	31.4
4	0.293	17.9	8.5	15.8	33.7	24.3	60.5	50.5	26.8	26.2
5	0.977	12.7	5.4	15.9	28.6	21.3	56.0	46.0	27.4	24.7
6	19.928	5.0	-0.3	16.4	21.4	16.1	60.0	50.0	38.6	33.9

3.2. 6dB Bandwidth

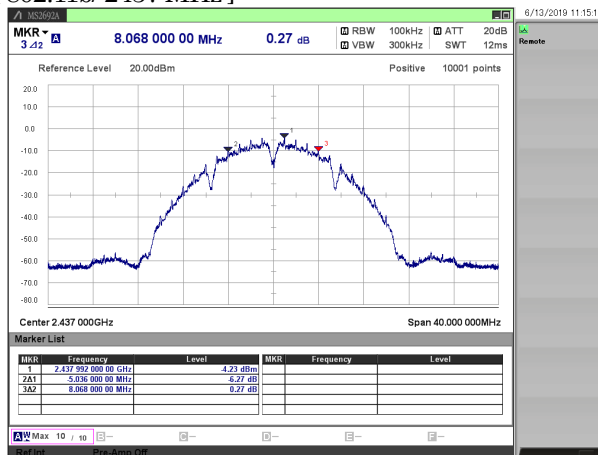
- | | | | |
|------------------------|---|-------------------|---------------|
| 1) Ambient temperature | : | 21.3 deg.C | 21.5 deg.C |
| 2) Relative humidity | : | 52.8 % | 52.5 % |
| 3) Date of measurement | : | June 13, 2019 | June 19, 2019 |
| 4) Measured by | : | H.WAKI | |
| 5) Operating mode | : | Transmitting mode | |

Mode	Rate [Mbps]	Channel [MHz]	6dB Bandwidth Result [MHz]	6dB Bandwidth Limit [MHz]
11b	2	2412	8.064	0.5
		2437	8.068	0.5
		2462	8.064	0.5
11g	24	2412	16.480	0.5
		2437	16.492	0.5
		2462	16.464	0.5
11n (HT20)	MCS6	2412	17.672	0.5
		2437	17.684	0.5
		2462	17.672	0.5

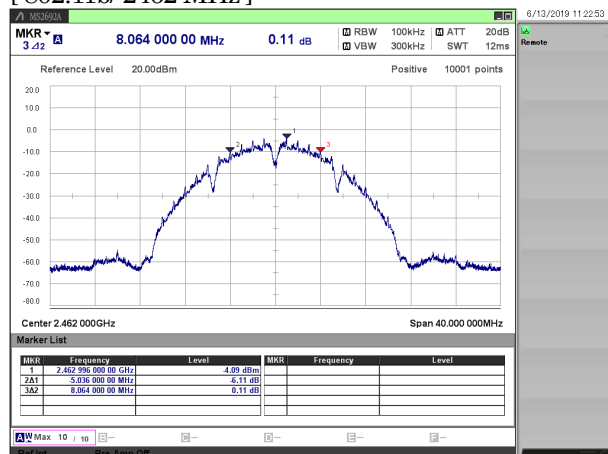
[802.11b/ 2412 MHz]



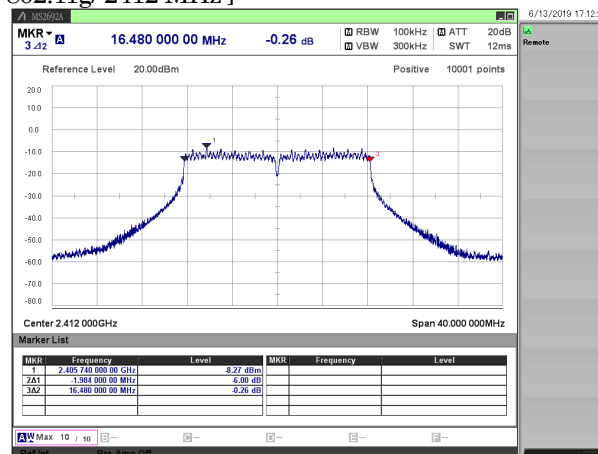
[802.11b/ 2437 MHz]



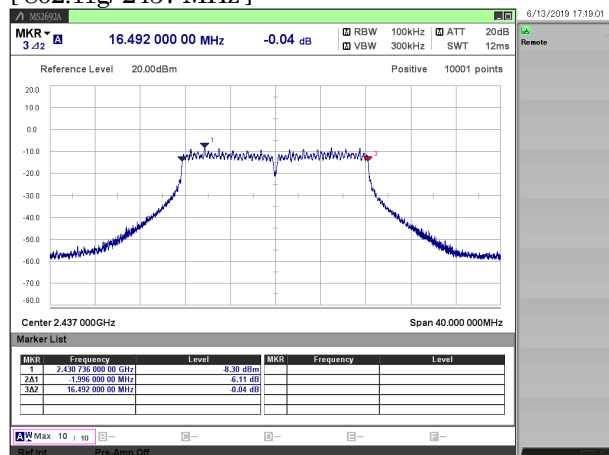
[802.11b/ 2462 MHz]



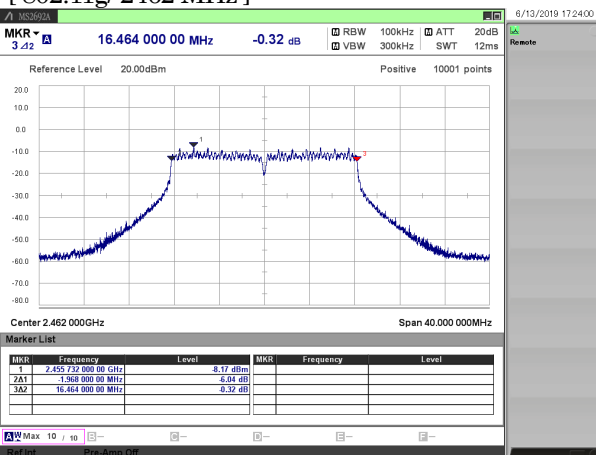
[802.11g/ 2412 MHz]



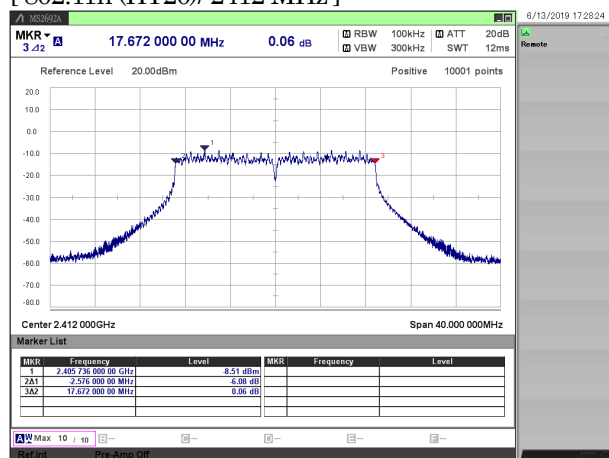
[802.11g/ 2437 MHz]



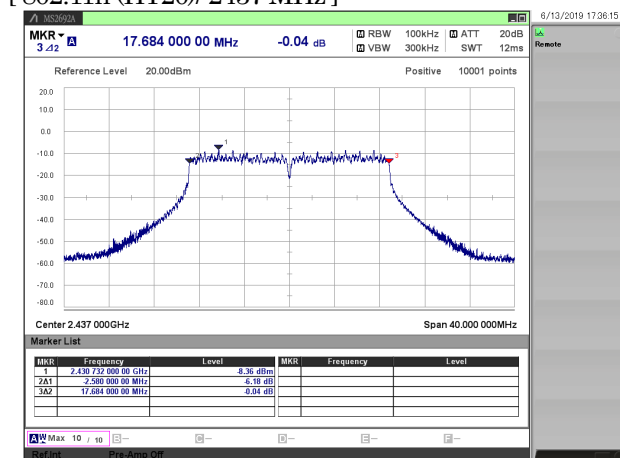
[802.11g/ 2462 MHz]



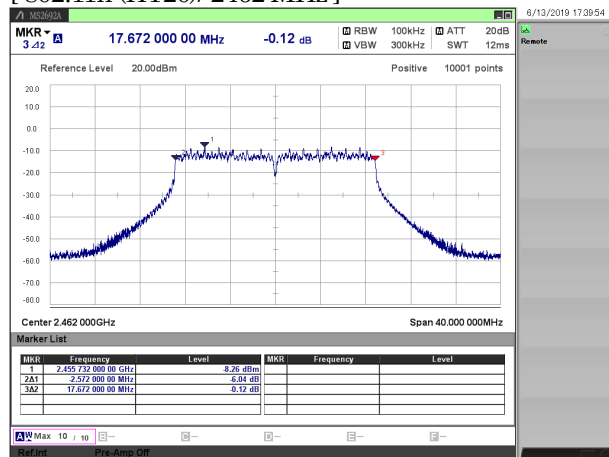
[802.11n (HT20)/ 2412 MHz]



[802.11n (HT20)/ 2437 MHz]



[802.11n (HT20)/ 2462 MHz]



3.3. Maximum Conducted Output Power

- 1) Ambient temperature : 23.5 deg.C
- 2) Relative humidity : 80.1 %
- 3) Date of measurement : June 7, 2019
- 4) Measured by : T.NAKAMURA
- 5) Operating mode : Transmitting mode

Maximum Peak Conducted Output Power

Mode	Rate [Mbps]	Channel [MHz]	Reading(PK) [dBm]	C.F. [dB]	Result(PK) [dBm]	Result(PK) [W]	Limit [dBm]	Margin [dB]
11b	2	2412	8.12	10.41	18.53	0.07129	30.0	11.47
		2437	8.22	10.41	18.63	0.07295	30.0	11.37
		2462	7.09	10.41	17.50	0.05623	30.0	12.50
11g	24	2412	14.87	10.41	25.28	0.33729	30.0	4.72
		2437	15.03	10.41	25.44	0.34995	30.0	4.56
		2462	15.07	10.41	25.48	0.35318	30.0	4.52
11n (HT20)	MCS6	2412	14.98	10.41	25.39	0.34594	30.0	4.61
		2437	14.80	10.41	25.21	0.33189	30.0	4.79
		2462	14.94	10.41	25.35	0.34277	30.0	4.65

Worst Data Rate check

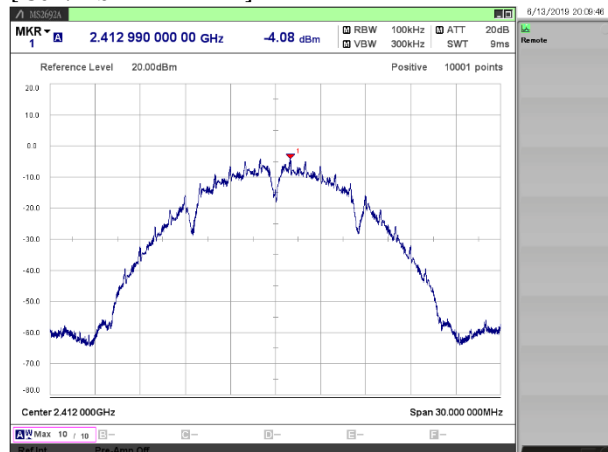
Mode	Rate [Mbps]	Channel [MHz]	Reading(PK) [dBm]	C.F. [dB]	Result(PK) [dBm]
11b	1	2437	8.18	10.41	18.59
	2	2437	8.22	10.41	18.63
	5.5	2437	8.12	10.41	18.53
	11	2437	8.18	10.41	18.59
11g	6	2437	11.19	10.41	21.60
	9	2437	11.22	10.41	21.63
	12	2437	11.41	10.41	21.82
	18	2437	11.48	10.41	21.89
	24	2437	15.03	10.41	25.44
	36	2437	14.99	10.41	25.40
	48	2437	14.34	10.41	24.75
	54	2437	14.43	10.41	24.84
11n (HT20)	MCS0	2437	11.46	10.41	21.87
	MCS1	2437	11.72	10.41	22.13
	MCS2	2437	11.42	10.41	21.83
	MCS3	2437	14.49	10.41	24.90
	MCS4	2437	14.58	10.41	24.99
	MCS5	2437	14.28	10.41	24.69
	MCS6	2437	14.80	10.41	25.21
	MCS7	2437	14.29	10.41	24.70

3.4. Power Spectral Density

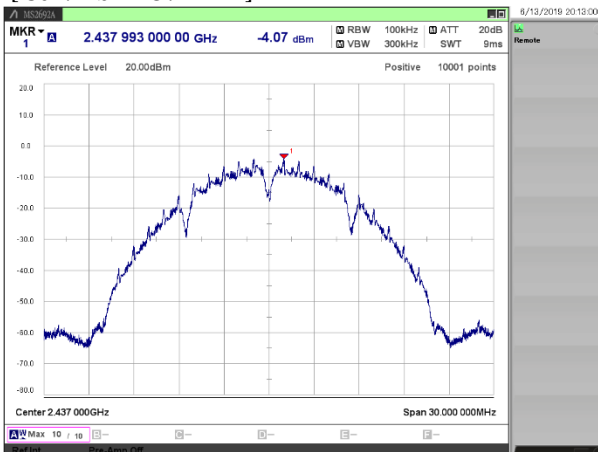
- 1) Ambient temperature : 21.3 deg.C
- 2) Relative humidity : 52.8 %
- 3) Date of measurement : June 13, 2019
- 4) Measured by : H.WAKI
- 5) Operating mode : Transmitting mode

Mode	Rate [Mbps]	Channel [MHz]	Reading [dBm]	C.F. [dB]	Result [dBm]	Limit [dBm]	Margin [dB]
11b	2	2412	-4.08	10.86	6.78	8.0	1.22
		2437	-4.07	10.86	6.79	8.0	1.21
		2462	-3.98	10.86	6.88	8.0	1.12
11g	24	2412	-22.55	10.86	-11.69	8.0	19.69
		2437	-22.28	10.86	-11.42	8.0	19.42
		2462	-22.62	10.86	-11.76	8.0	19.76
11n (HT20)	MCS6	2412	-22.58	10.86	-11.72	8.0	19.72
		2437	-22.35	10.86	-11.49	8.0	19.49
		2462	-22.49	10.86	-11.63	8.0	19.63

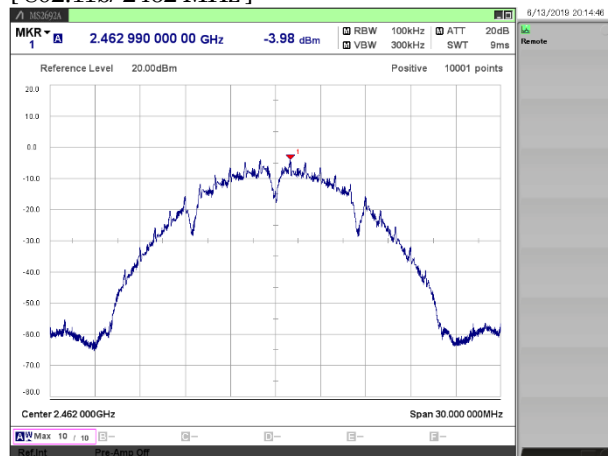
[802.11b/ 2412 MHz]



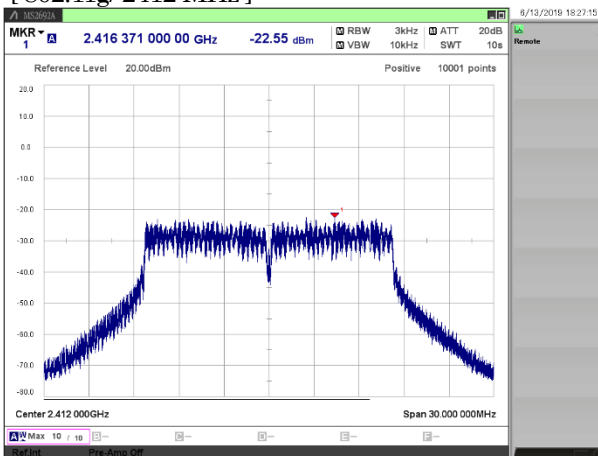
[802.11b/ 2437 MHz]



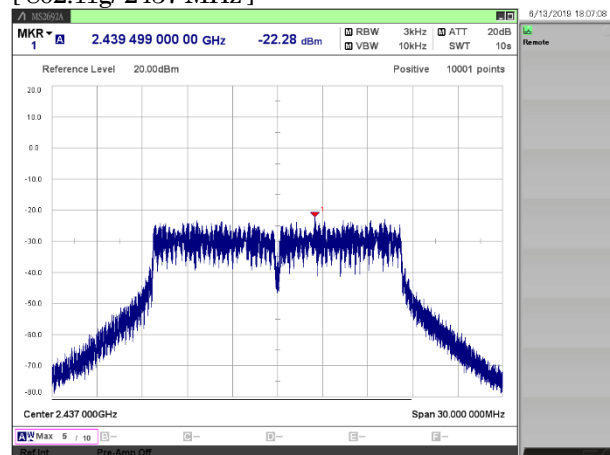
[802.11b/ 2462 MHz]



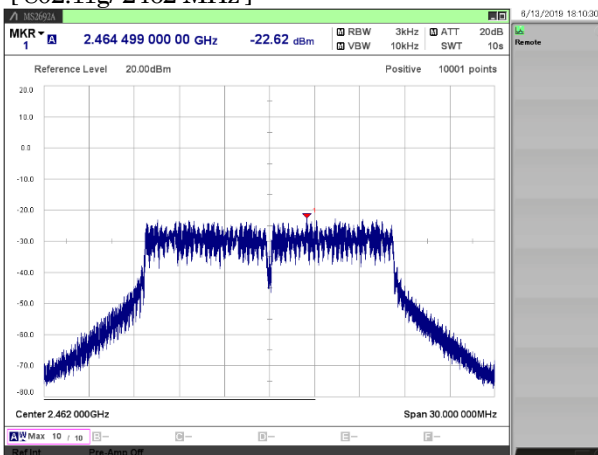
[802.11g/ 2412 MHz]



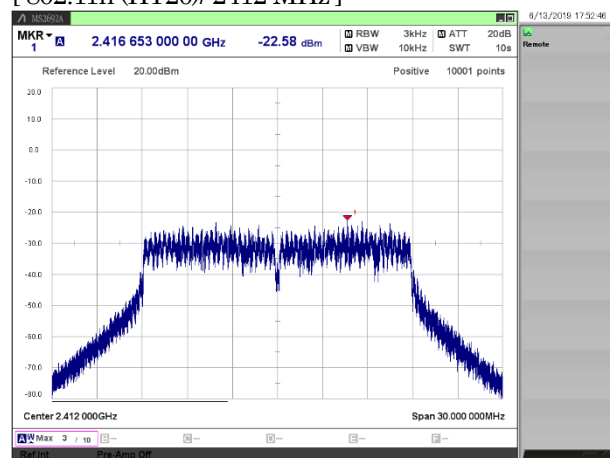
[802.11g/ 2437 MHz]



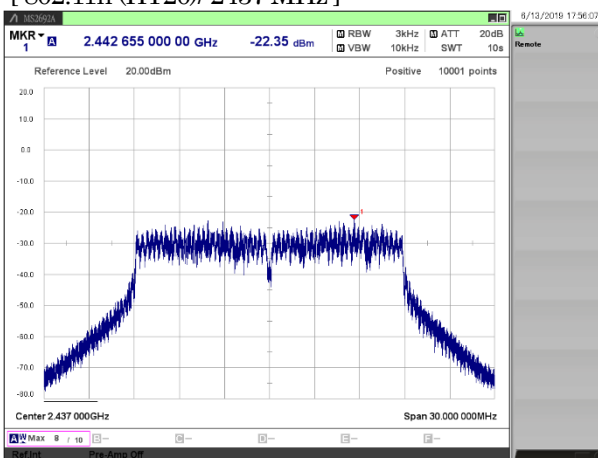
[802.11g/ 2462 MHz]



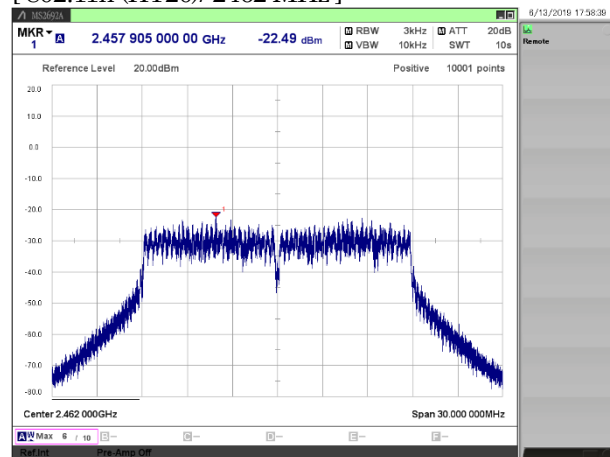
[802.11n (HT20)/ 2412 MHz]



[802.11n (HT20)/ 2437 MHz]



[802.11n (HT20)/ 2462 MHz]



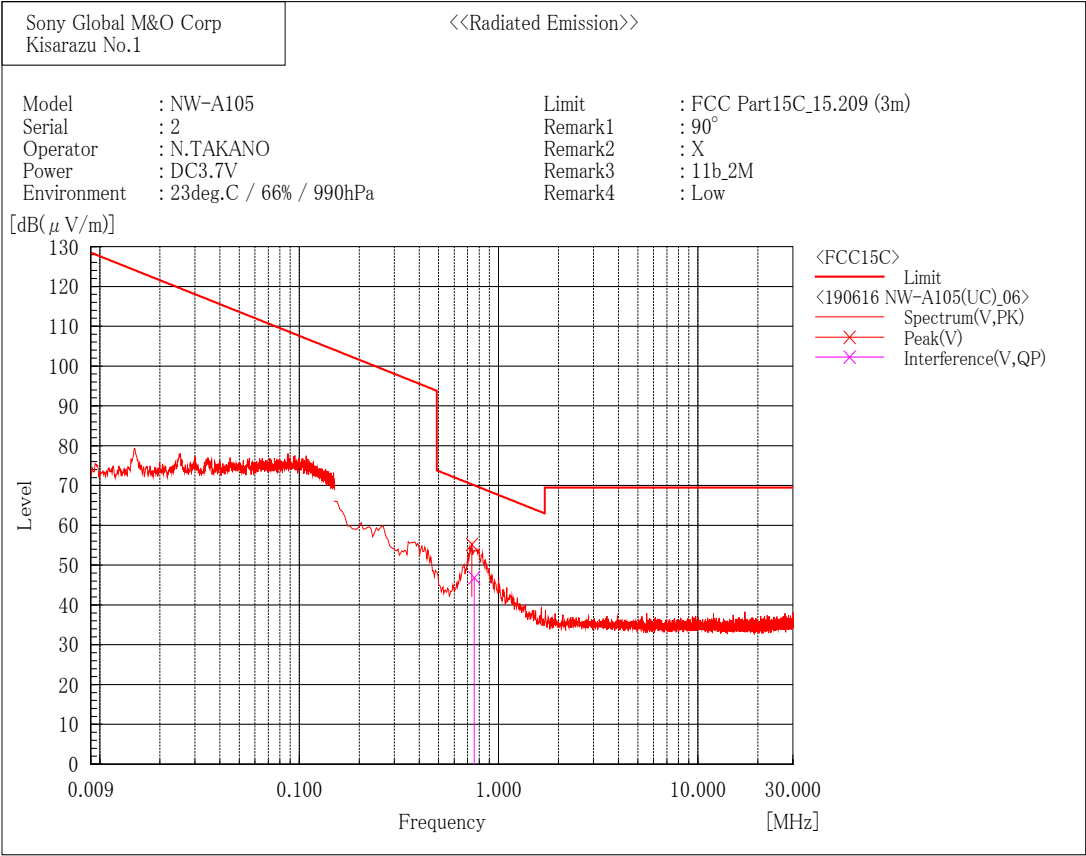
3.5. Radiated Spurious Emissions

1) Date of measurement

9 kHz to 30 MHz	: June 16, 2019	(all mode)
30 MHz to 1000 MHz	: June 16, 2019	(all mode)
1 GHz to 6 GHz	: June 12, 2019 to June 13, 2019	(all mode)
	June 12, 2019 to June 14, 2019	(band edge plot data)
6 GHz to 18 GHz	: June 13, 2019 to June 14, 2019	(all mode)
18 GHz to 26.5 GHz	: June 14, 2019 to June 15, 2019	(all mode)

The test data is mentioned as follows.

9 kHz to 30 MHz
[802.11b/ 2412 MHz]



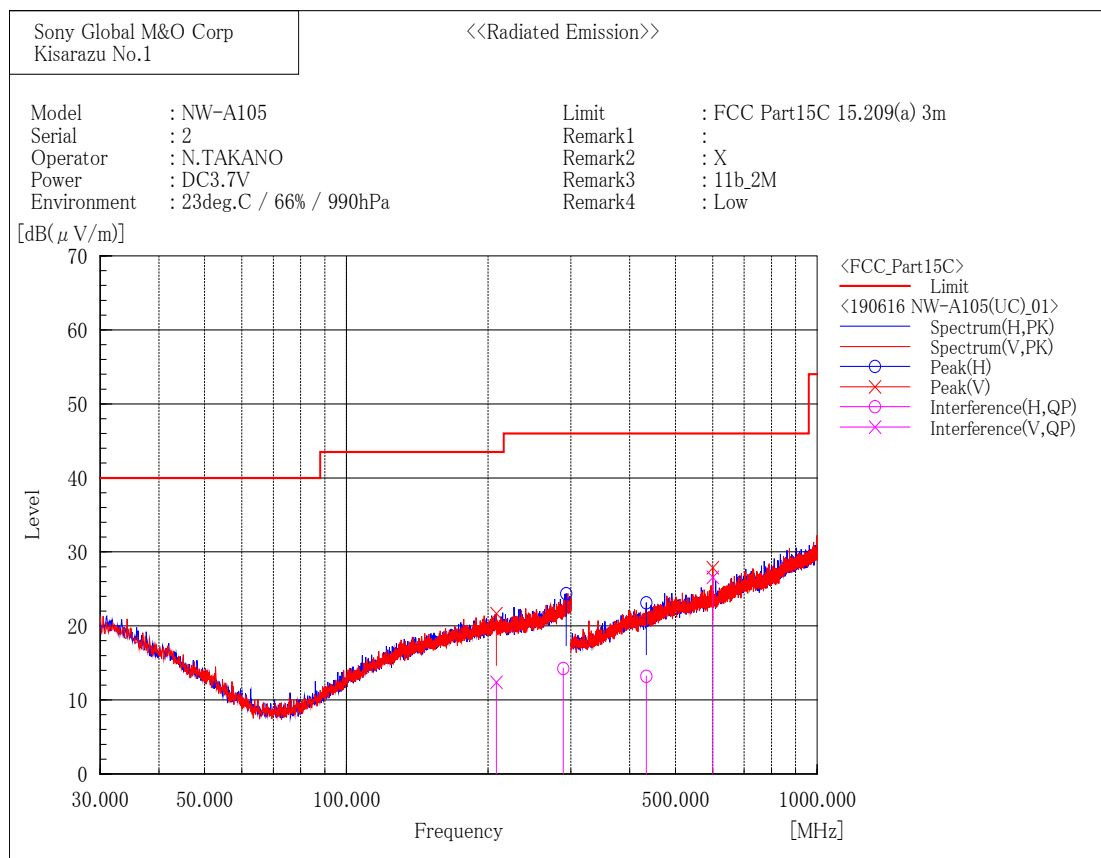
Final Result

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	0.755	27.2	19.7	46.9	70.1	23.2	100.0	15.1

30 MHz to 1000 MHz

[802.11b / 2412 MHz]



Final Result

--- Horizontal Polarization (QP)---

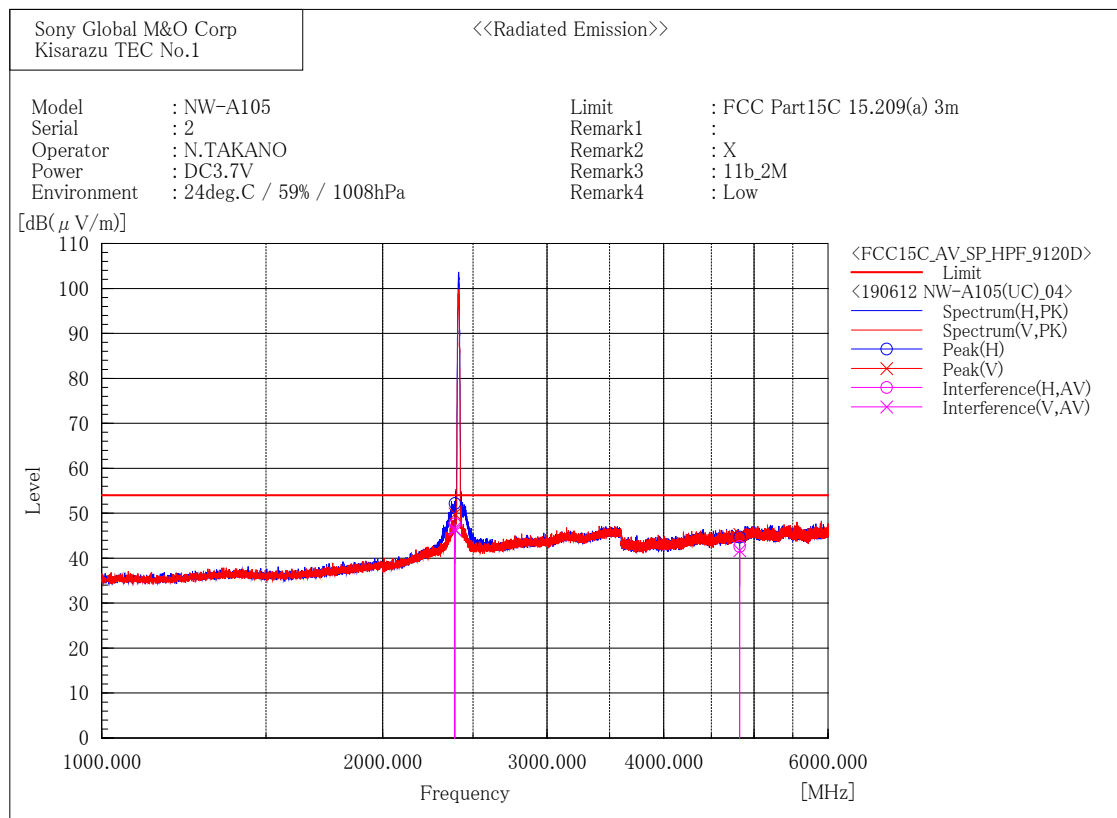
No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	289.035	19.3	-5.1	14.2	46.0	31.8	208.3	43.7
2	433.933	19.9	-6.7	13.2	46.0	32.8	100.0	265.1

--- Vertical Polarization (QP)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	208.200	19.8	-7.4	12.4	43.5	31.1	306.0	309.2
2	599.995	30.7	-4.1	26.6	46.0	19.4	100.0	94.0

1 GHz to 6 GHz

[802.11b/ 2412 MHz]



Final Result

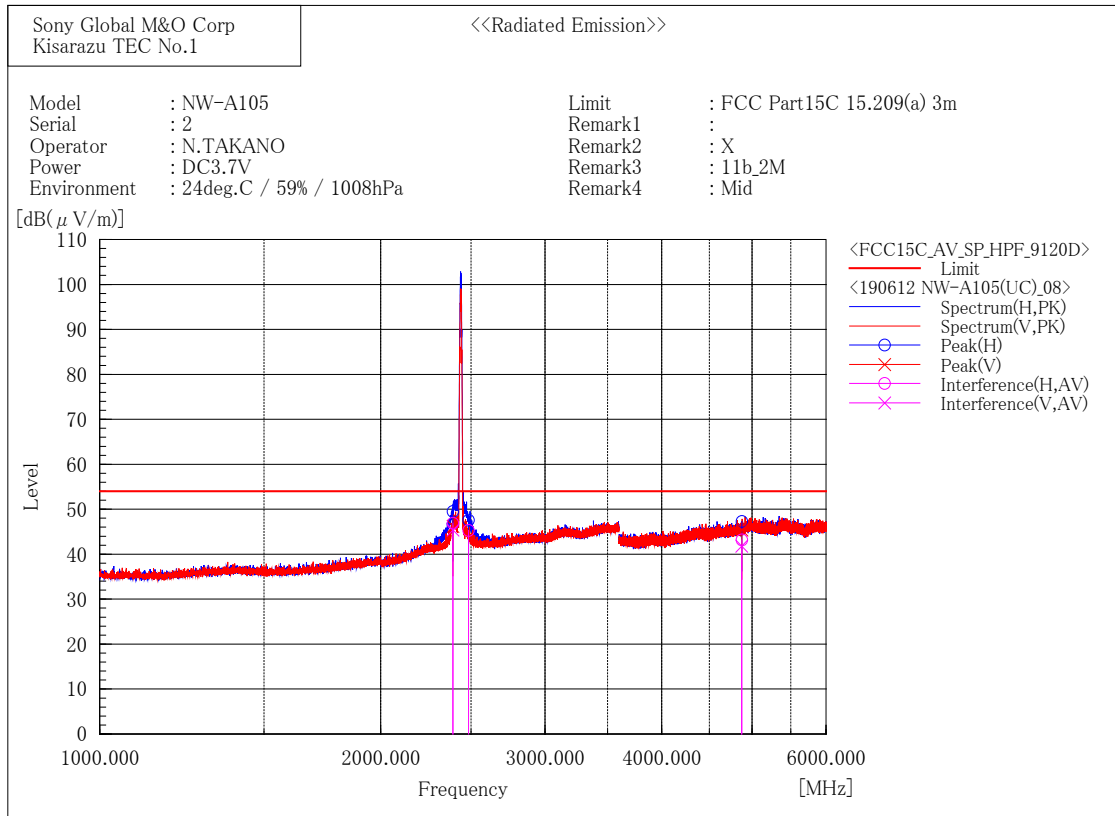
--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	44.9	2.7	47.6	54.0	6.4	115.3	119.4
2	4824.180	31.7	10.9	42.6	54.0	11.4	110.0	40.5

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2387.693	43.9	2.7	46.6	54.0	7.4	424.0	157.7
2	2390.000	43.6	2.7	46.3	54.0	7.7	424.0	157.7
3	4824.230	30.8	10.9	41.7	54.0	12.3	100.0	117.1

[802.11b/ 2437 MHz]



Final Result

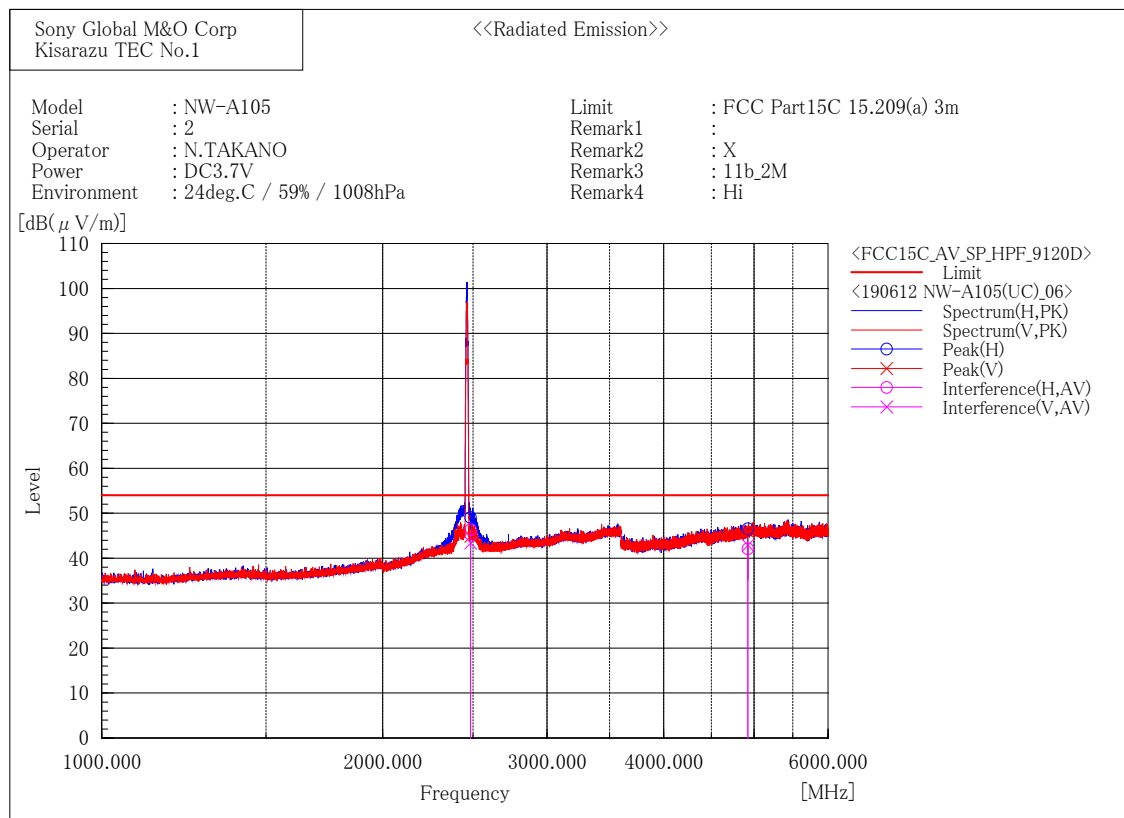
--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	44.2	2.7	46.9	54.0	7.1	144.9	200.9
2	2483.500	42.2	3.1	45.3	54.0	8.7	131.8	195.0
3	4873.843	32.2	11.0	43.2	54.0	10.8	100.0	43.5

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	42.7	2.7	45.4	54.0	8.6	431.0	163.1
2	4873.675	30.8	11.0	41.8	54.0	12.2	123.0	315.3

[802.11b/ 2462 MHz]



Final Result

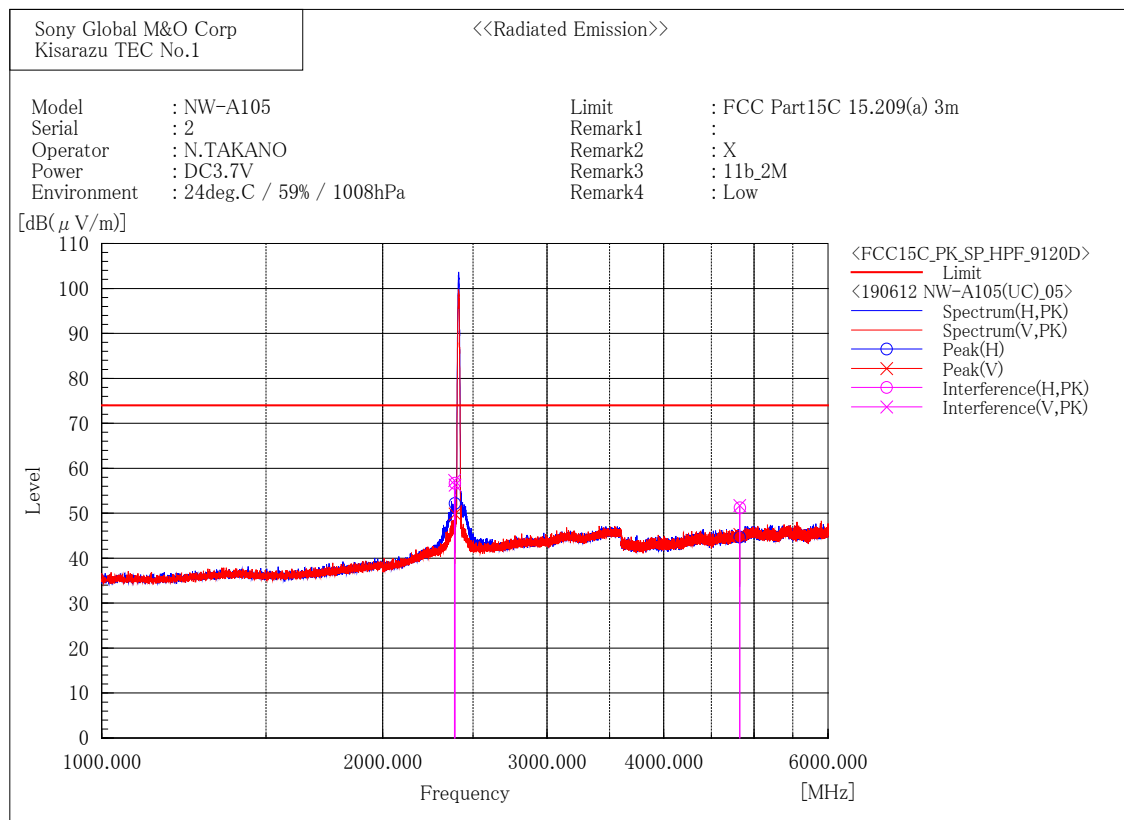
--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2483.500	43.2	3.1	46.3	54.0	7.7	241.0	202.6
2	4924.013	31.0	11.1	42.1	54.0	11.9	109.0	342.3

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2483.500	40.3	3.1	43.4	54.0	10.6	352.0	154.6
2	4924.498	31.8	11.1	42.9	54.0	11.1	100.0	137.9

[802.11b/ 2412 MHz]



Final Result

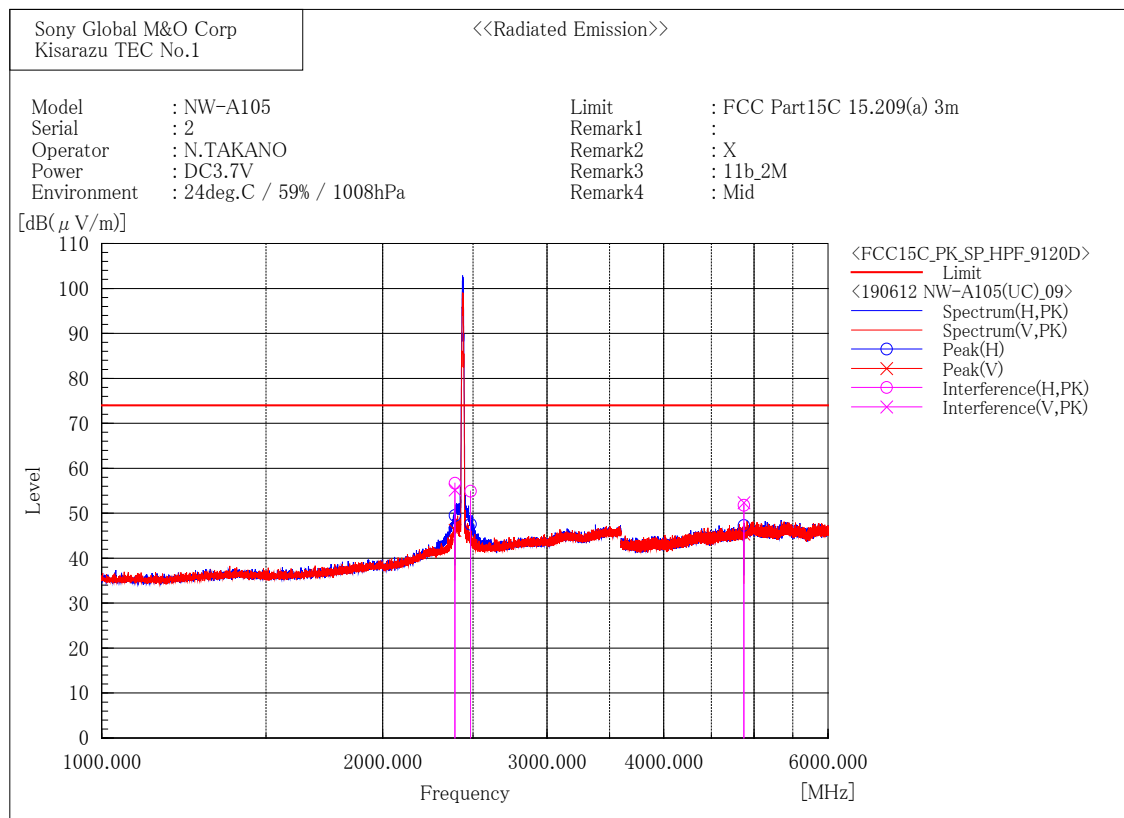
--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	54.0	2.7	56.7	74.0	17.3	115.3	117.5
2	4828.811	40.3	10.9	51.2	74.0	22.8	110.0	42.4

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2386.711	54.6	2.7	57.3	74.0	16.7	424.0	155.8
2	2390.000	53.6	2.7	56.3	74.0	17.7	424.0	155.8
3	4824.557	40.8	10.9	51.7	74.0	22.3	100.0	117.1

[802.11b/ 2437 MHz]



Final Result

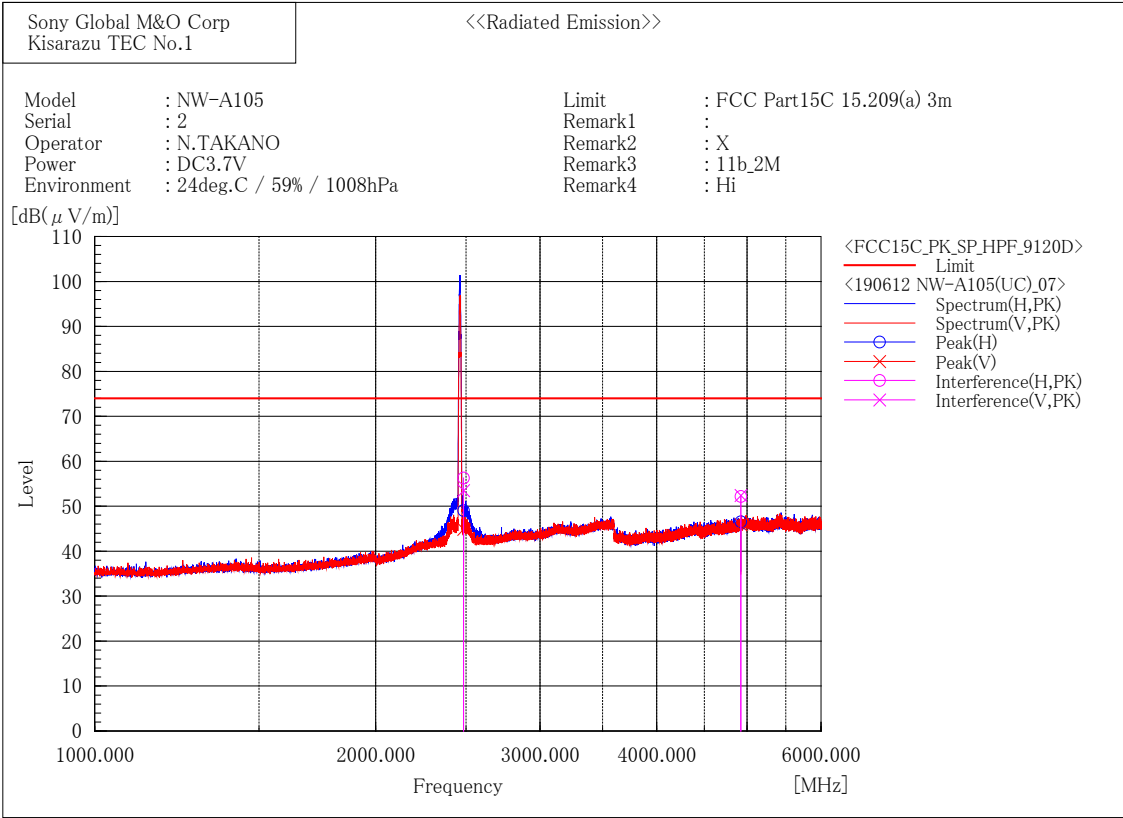
--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	54.0	2.7	56.7	74.0	17.3	144.9	199.0
2	2483.500	51.8	3.1	54.9	74.0	19.1	131.8	196.4
3	4874.593	40.8	11.0	51.8	74.0	22.2	100.0	45.5

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	52.5	2.7	55.2	74.0	18.8	431.0	165.0
2	4874.087	41.4	11.0	52.4	74.0	21.6	123.0	315.3

[802.11b/ 2462 MHz]



Final Result

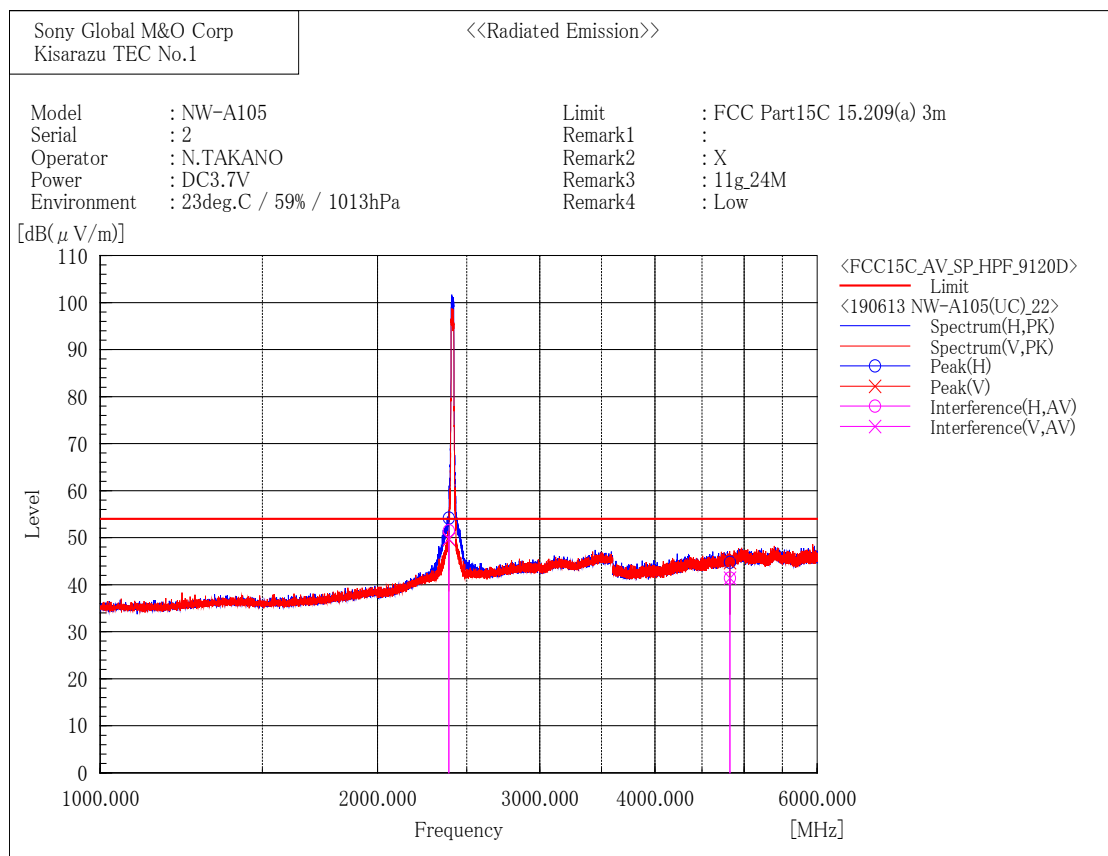
--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2483.500	53.2	3.1	56.3	74.0	17.7	241.0	204.6
2	4924.494	41.1	11.1	52.2	74.0	21.8	109.0	340.2

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2483.500	50.4	3.1	53.5	74.0	20.5	352.0	152.5
2	4923.515	41.3	11.1	52.4	74.0	21.6	100.0	139.7

[802.11g/ 2412 MHz]



Final Result

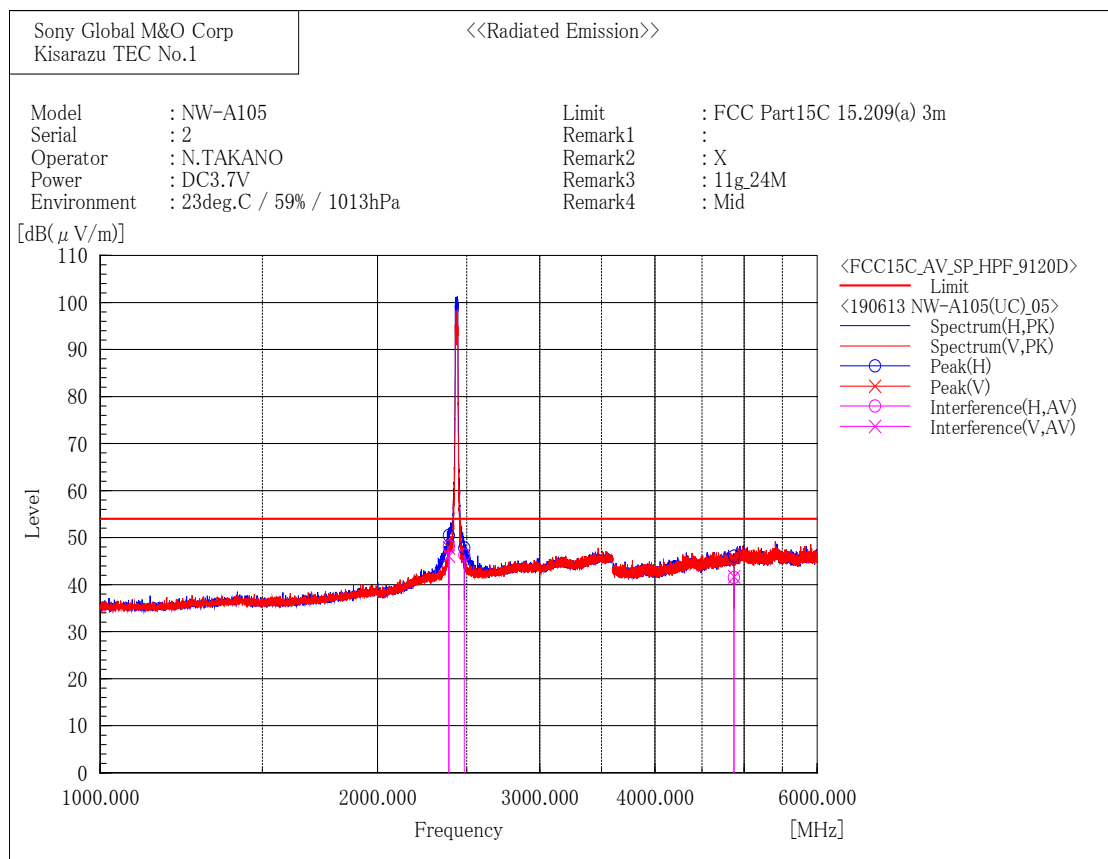
--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	48.8	2.7	51.5	54.0	2.5	145.5	200.8
2	4824.403	30.5	10.9	41.4	54.0	12.6	168.1	274.9

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	47.1	2.7	49.8	54.0	4.2	431.0	147.5
2	4823.363	30.5	10.9	41.4	54.0	12.6	125.9	174.7

[802.11g/ 2437 MHz]



Final Result

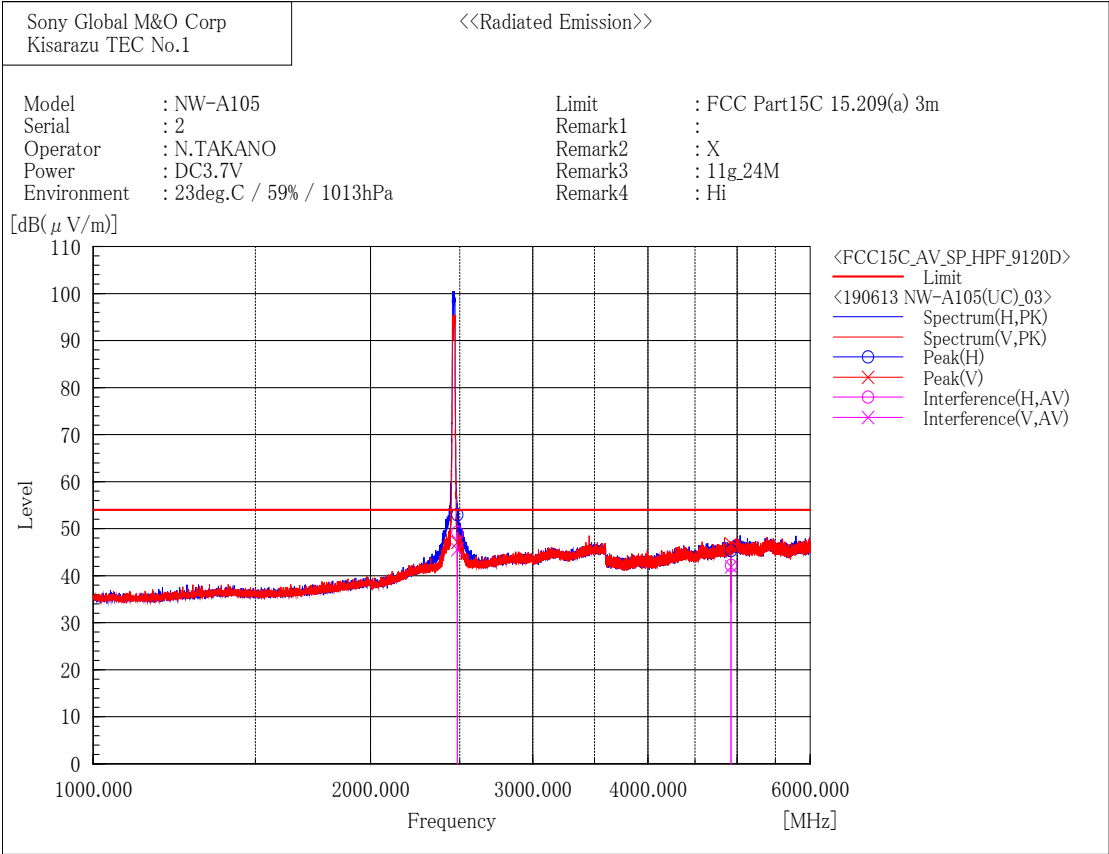
--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	45.5	2.7	48.2	54.0	5.8	261.0	210.0
2	2483.500	43.2	3.1	46.3	54.0	7.7	121.9	211.5
3	4873.285	30.5	11.0	41.5	54.0	12.5	216.9	293.3

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	43.4	2.7	46.1	54.0	7.9	431.0	152.8
2	4874.772	30.7	11.0	41.7	54.0	12.3	162.7	326.8

[802.11g/ 2462 MHz]



Final Result

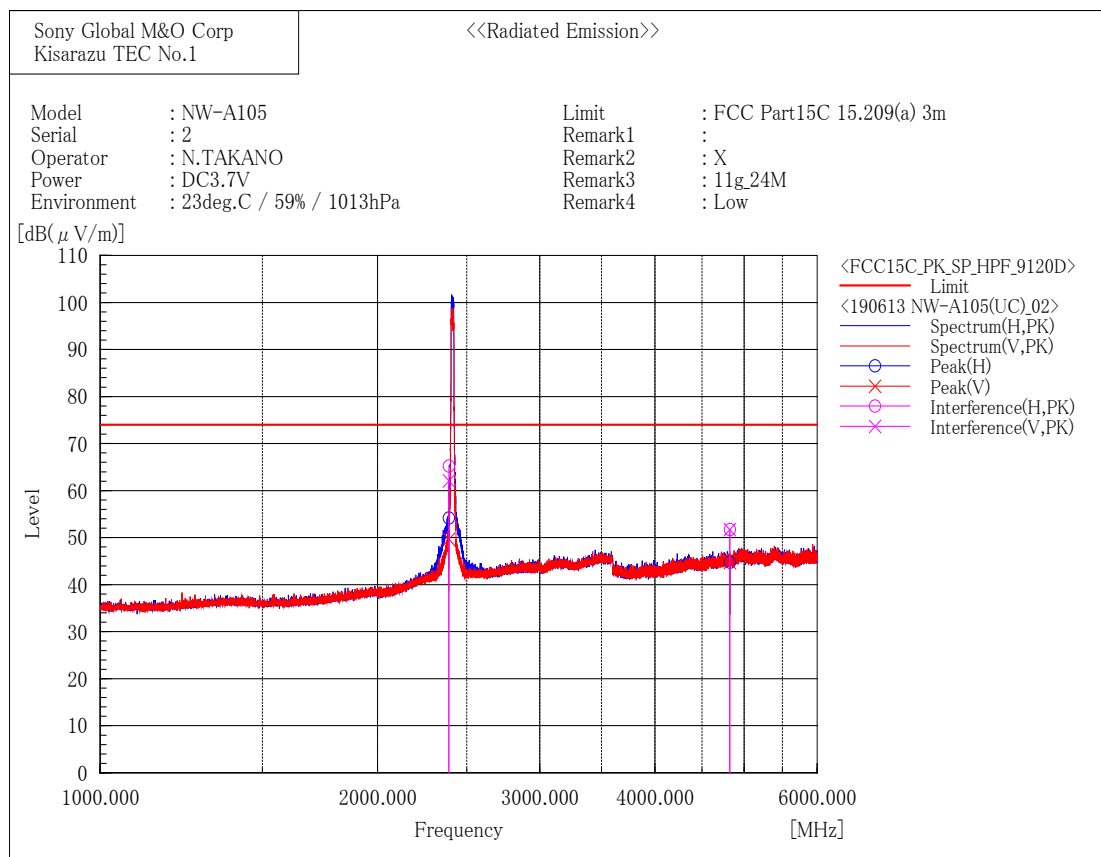
--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2483.500	46.1	3.1	49.2	54.0	4.8	194.4	199.1
2	4923.600	31.1	11.1	42.2	54.0	11.8	279.1	339.7

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2483.500	42.5	3.1	45.6	54.0	8.4	351.6	148.5
2	4923.259	30.8	11.1	41.9	54.0	12.1	220.8	80.2

[802.11g/ 2412 MHz]



Final Result

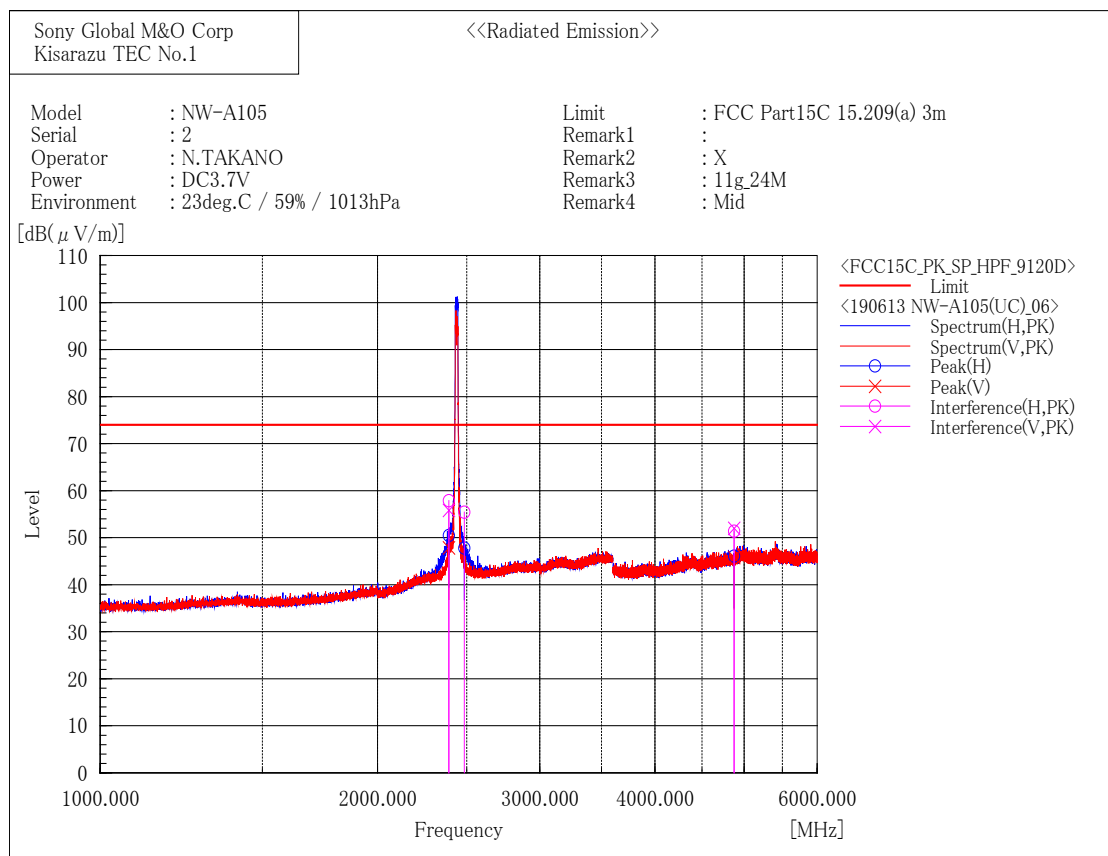
--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	62.5	2.7	65.2	74.0	8.8	145.5	204.8
2	4825.003	40.8	10.9	51.7	74.0	22.3	168.1	272.9

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	59.4	2.7	62.1	74.0	11.9	431.0	149.4
2	4822.812	40.8	10.9	51.7	74.0	22.3	125.9	172.8

[802.11g/ 2437 MHz]



Final Result

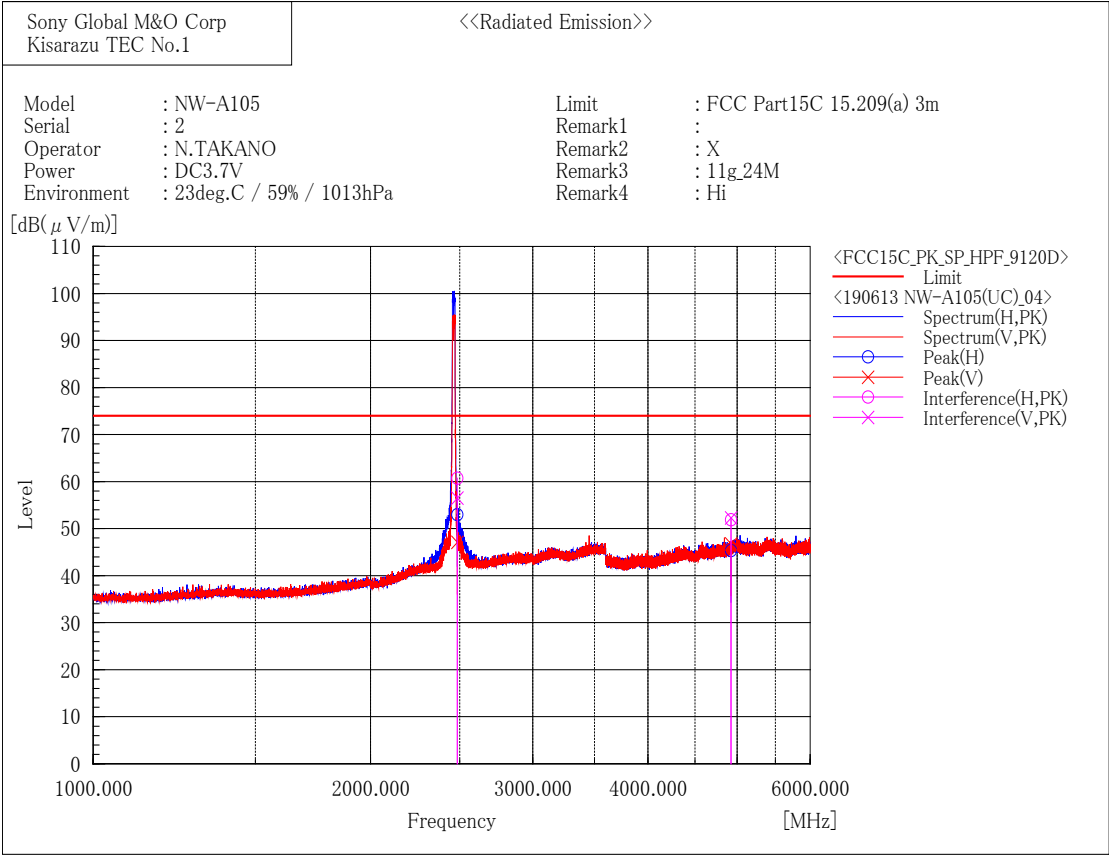
--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	55.2	2.7	57.9	74.0	16.1	261.0	212.1
2	2483.500	52.3	3.1	55.4	74.0	18.6	121.9	212.1
3	4874.021	40.4	11.0	51.4	74.0	22.6	216.9	295.2

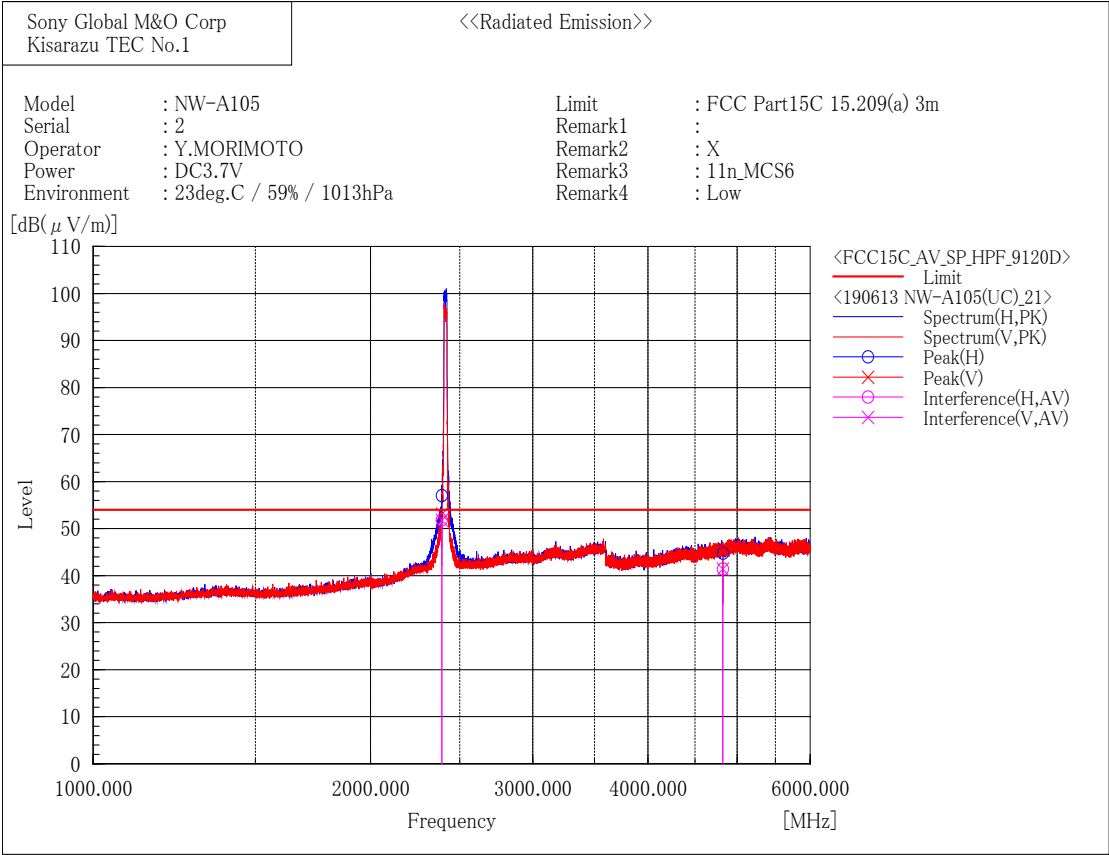
--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	53.1	2.7	55.8	74.0	18.2	431.0	154.8
2	4875.427	41.0	11.0	52.0	74.0	22.0	162.7	324.9

[802.11g/ 2462 MHz]



[802.11n (HT20)/ 2412 MHz]



Final Result

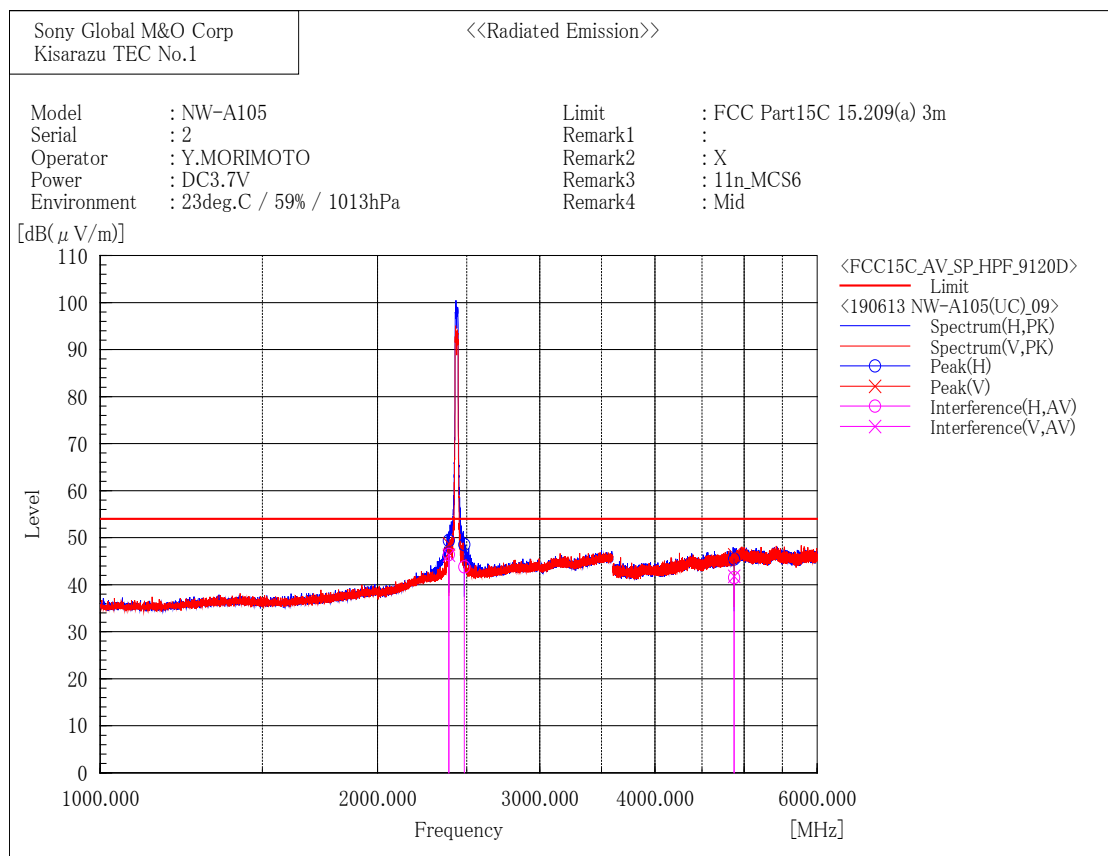
--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	49.2	2.7	51.9	54.0	2.1	148.7	192.9
2	4823.509	30.5	10.9	41.4	54.0	12.6	373.6	23.9

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	49.1	2.7	51.8	54.0	2.2	431.9	169.0
2	4823.155	30.5	10.9	41.4	54.0	12.6	167.1	246.1

[802.11n (HT20)/ 2437 MHz]



Final Result

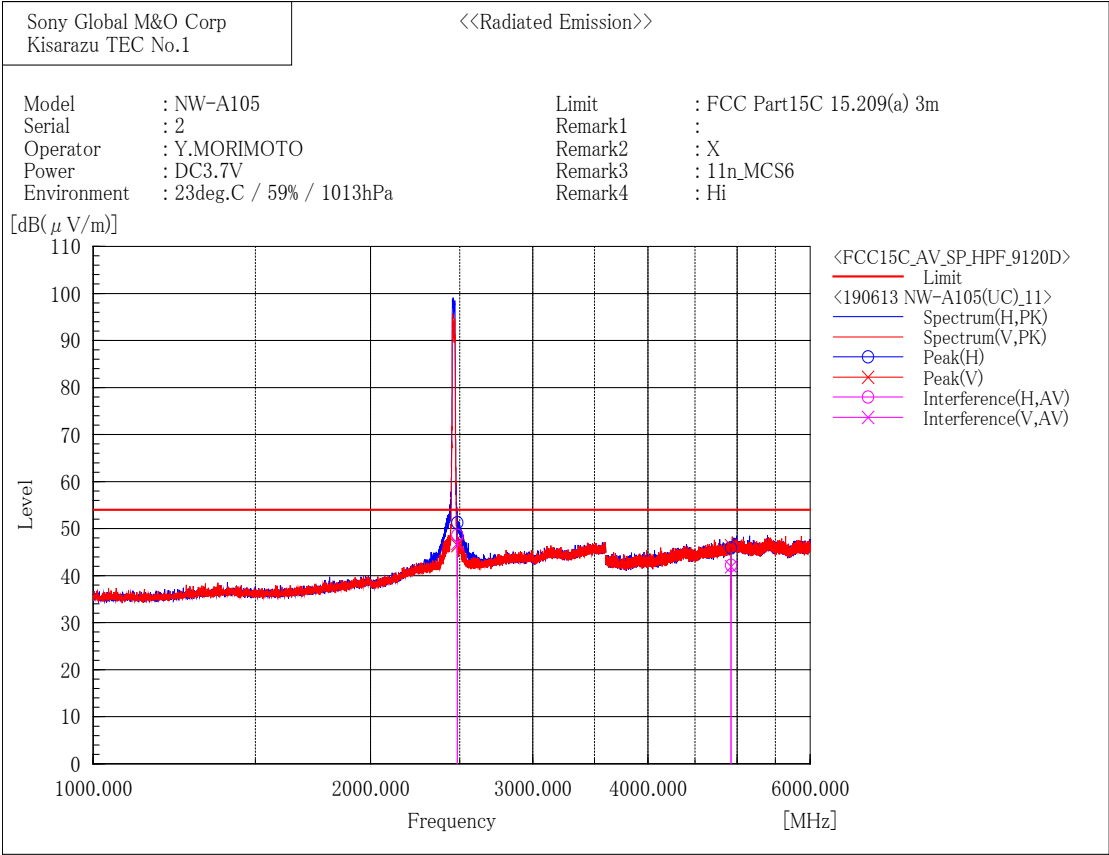
--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	43.7	2.7	46.4	54.0	7.6	100.0	31.6
2	2483.500	40.7	3.1	43.8	54.0	10.2	261.4	179.2
3	4874.918	30.5	11.0	41.5	54.0	12.5	283.1	71.5

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	43.6	2.7	46.3	54.0	7.7	431.8	142.4
2	4874.856	30.8	11.0	41.8	54.0	12.2	136.7	108.4

[802.11n (HT20)/ 2462 MHz]



Final Result

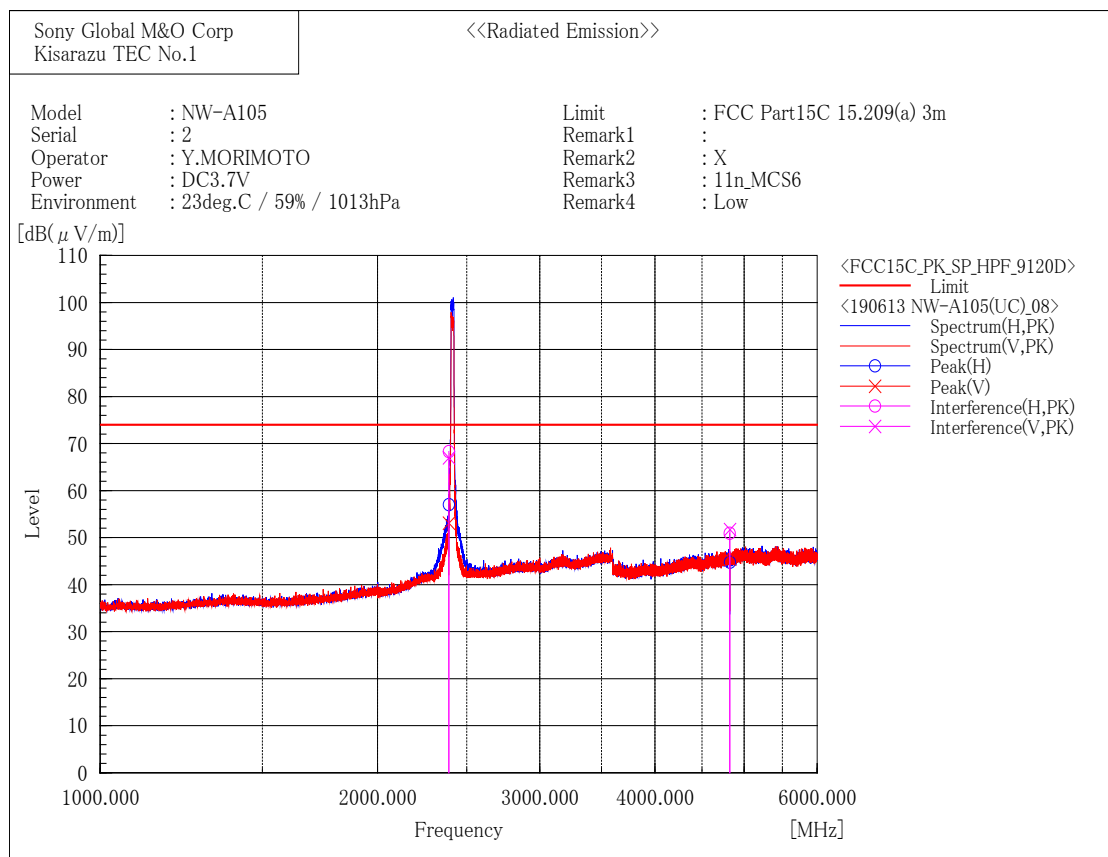
--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2483.500	45.5	3.1	48.6	54.0	5.4	118.2	110.2
2	4923.321	31.1	11.1	42.2	54.0	11.8	373.4	63.9

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2483.500	43.8	3.1	46.9	54.0	7.1	398.7	158.6
2	4923.872	30.8	11.1	41.9	54.0	12.1	138.7	232.5

[802.11n (HT20)/ 2412 MHz]



Final Result

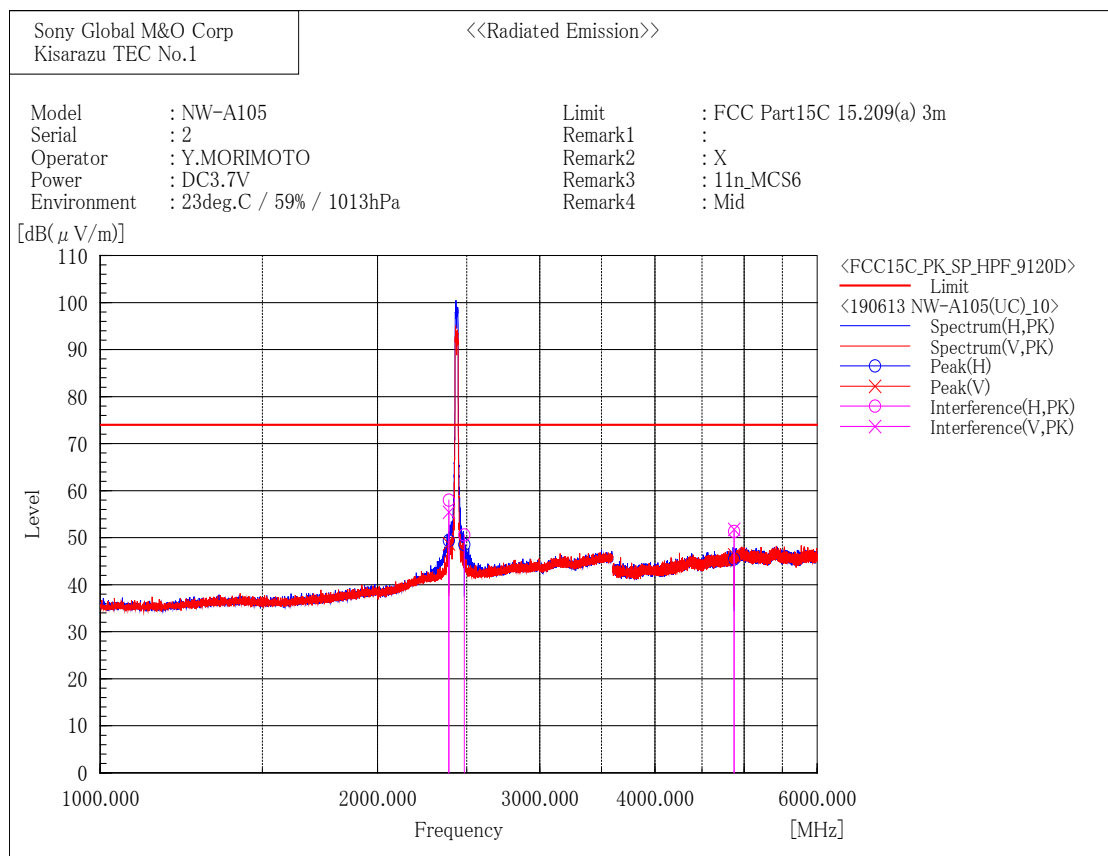
--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	65.6	2.7	68.3	74.0	5.7	148.7	193.1
2	4823.123	40.0	10.9	50.9	74.0	23.1	373.6	23.9

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	64.3	2.7	67.0	74.0	7.0	431.9	170.9
2	4823.572	40.8	10.9	51.7	74.0	22.3	167.1	244.1

[802.11n (HT20)/ 2437 MHz]



Final Result

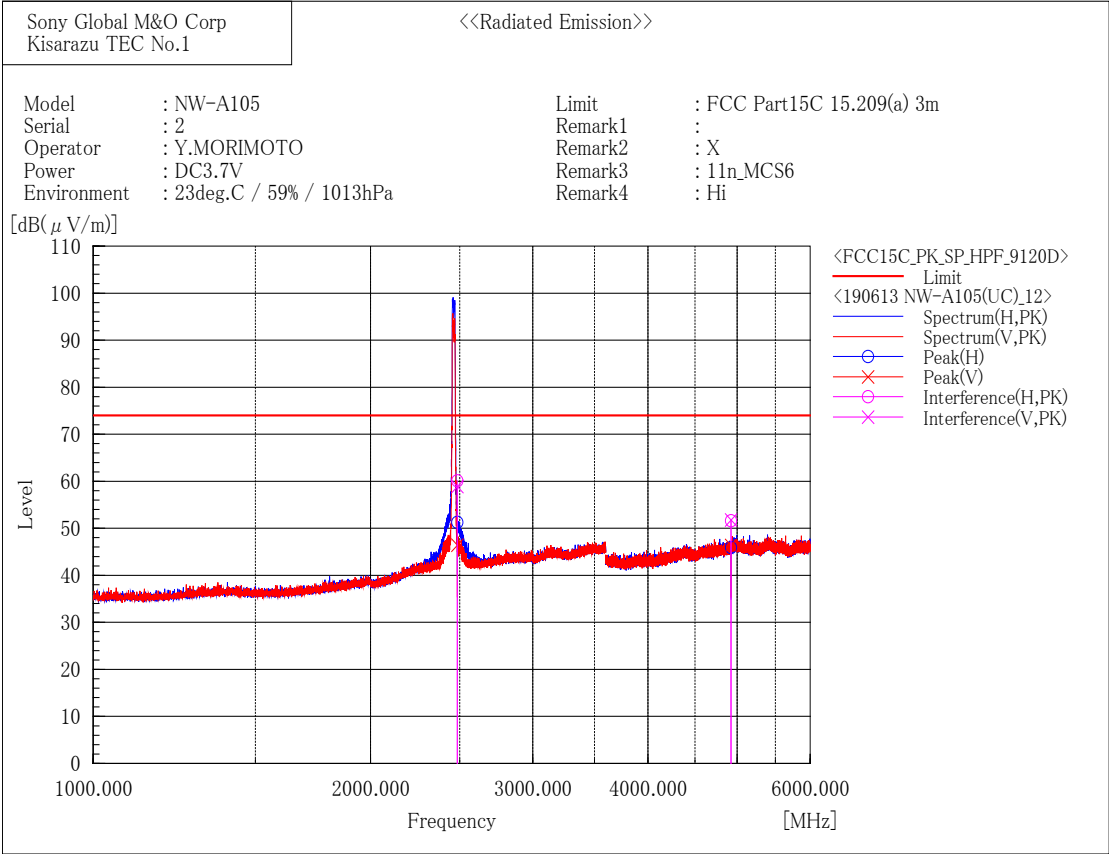
--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	55.3	2.7	58.0	74.0	16.0	100.0	33.7
2	2483.500	47.5	3.1	50.6	74.0	23.4	261.4	177.3
3	4875.298	40.3	11.0	51.3	74.0	22.7	283.1	73.4

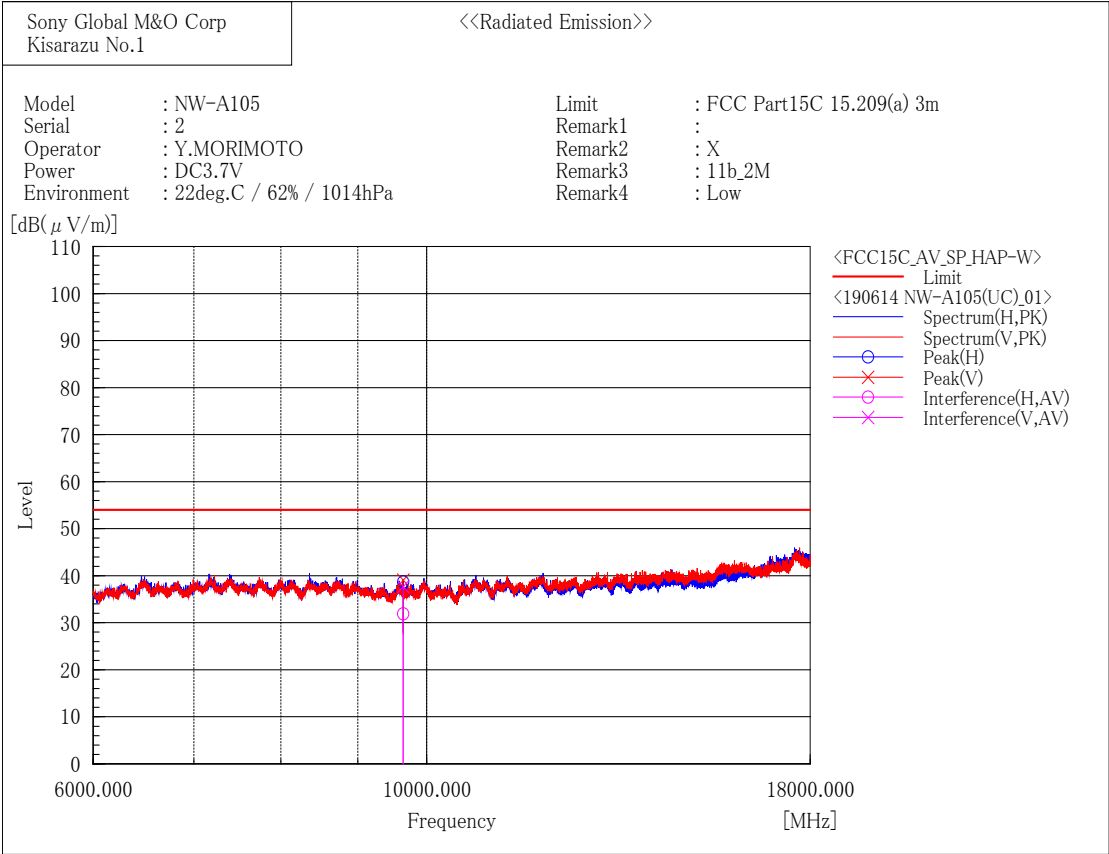
--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	2390.000	52.7	2.7	55.4	74.0	18.6	431.8	140.4
2	4874.433	40.8	11.0	51.8	74.0	22.2	136.7	108.4

[802.11n (HT20)/ 2462 MHz]



6 GHz to 18 GHz
[802.11b/ 2412 MHz]



Final Result

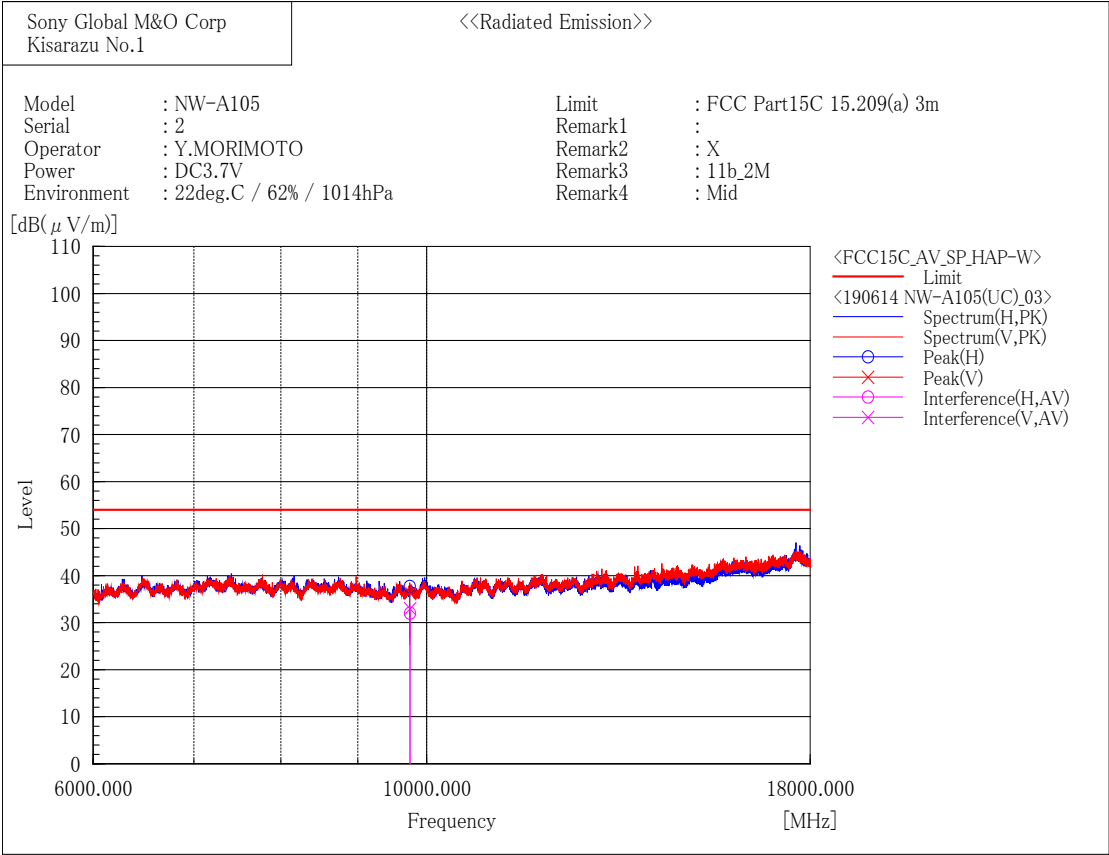
--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9648.000	37.7	-5.8	31.9	54.0	22.1	129.1	62.0

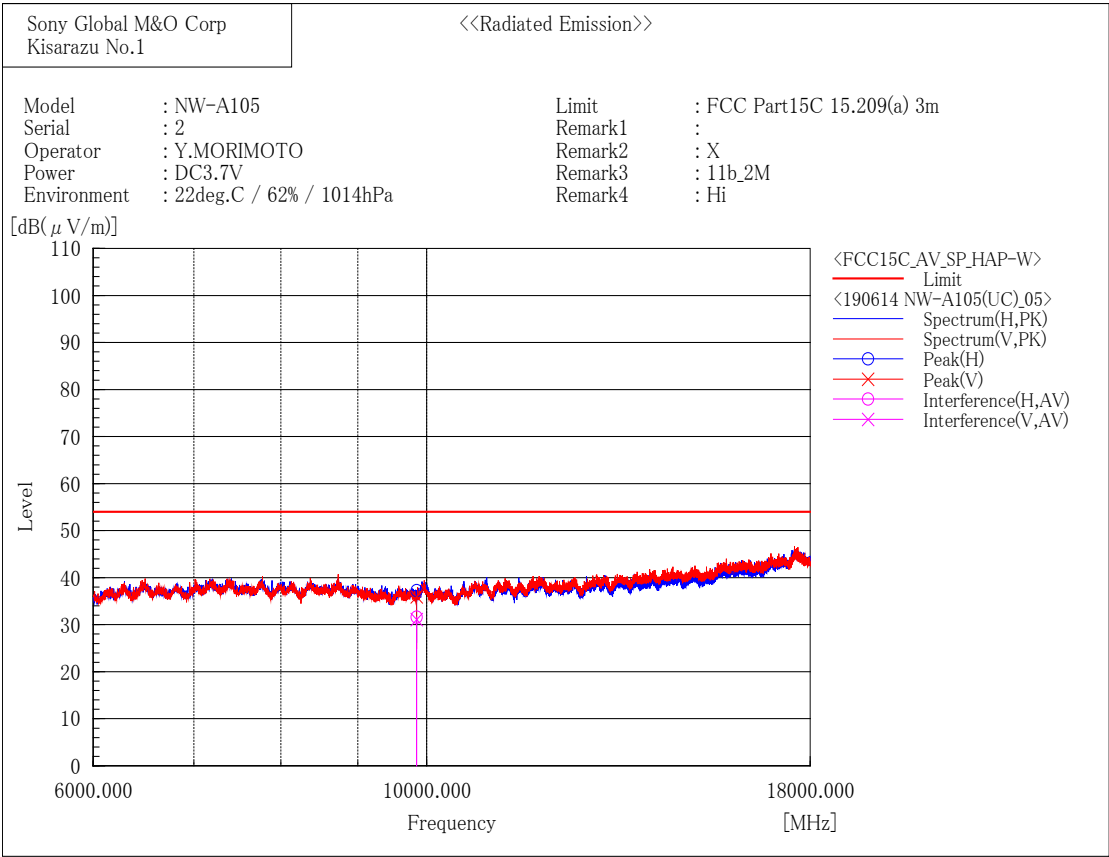
--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9648.000	43.5	-5.8	37.7	54.0	16.3	117.7	27.7

[802.11b/ 2437 MHz]



[802.11b/ 2462 MHz]



Final Result

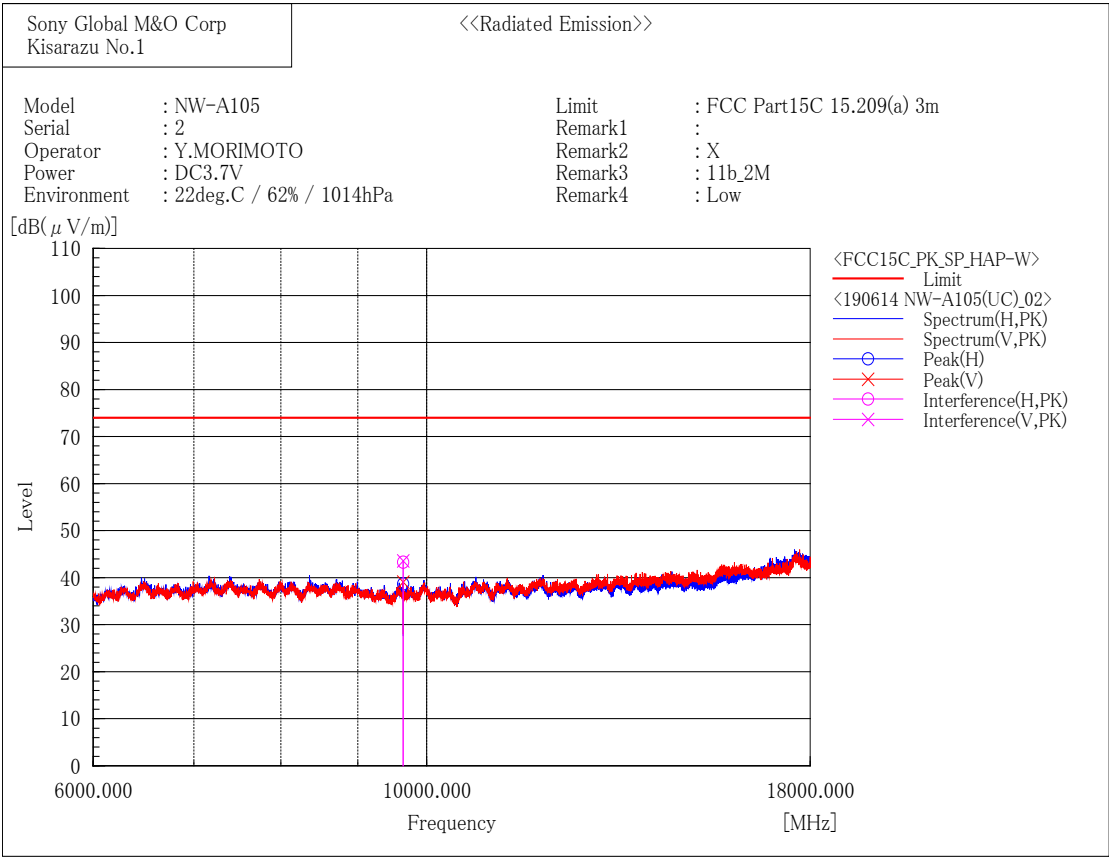
--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9848.000	36.7	-5.1	31.6	54.0	22.4	213.0	134.1

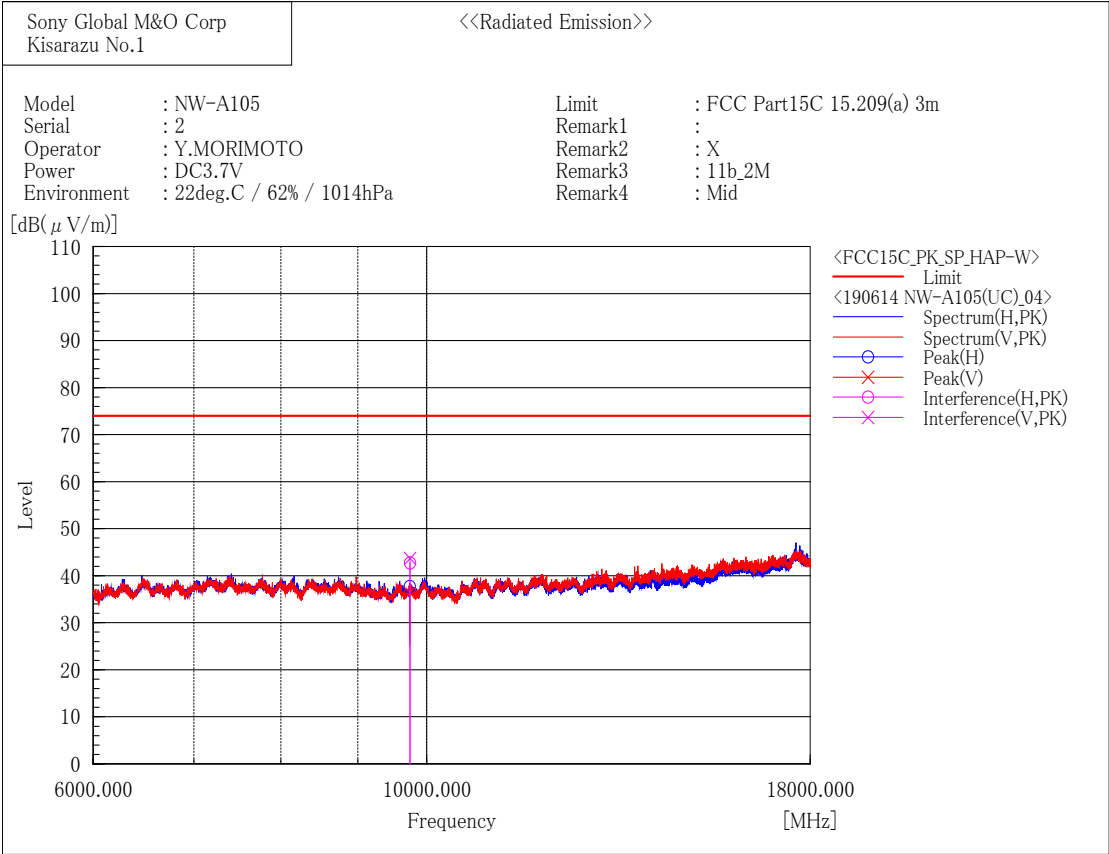
--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9848.000	36.2	-5.1	31.1	54.0	22.9	291.7	218.3

[802.11b/ 2412 MHz]



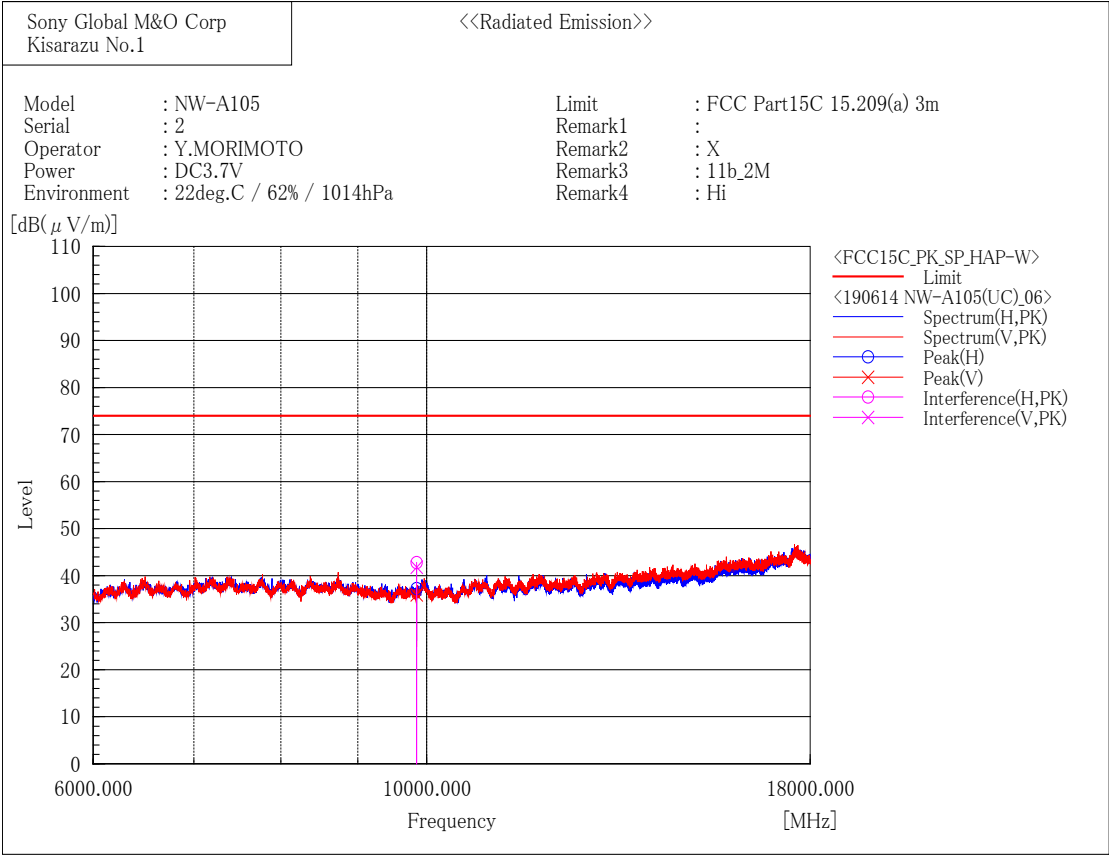
[802.11b/ 2437 MHz]



Final Result

--- Horizontal Polarization (PK)---								
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9748.000	48.2	-5.5	42.7	74.0	31.3	108.4	212.9
--- Vertical Polarization (PK)---								
No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9748.000	49.2	-5.5	43.7	74.0	30.3	118.1	71.1

[802.11b/ 2462 MHz]



Final Result

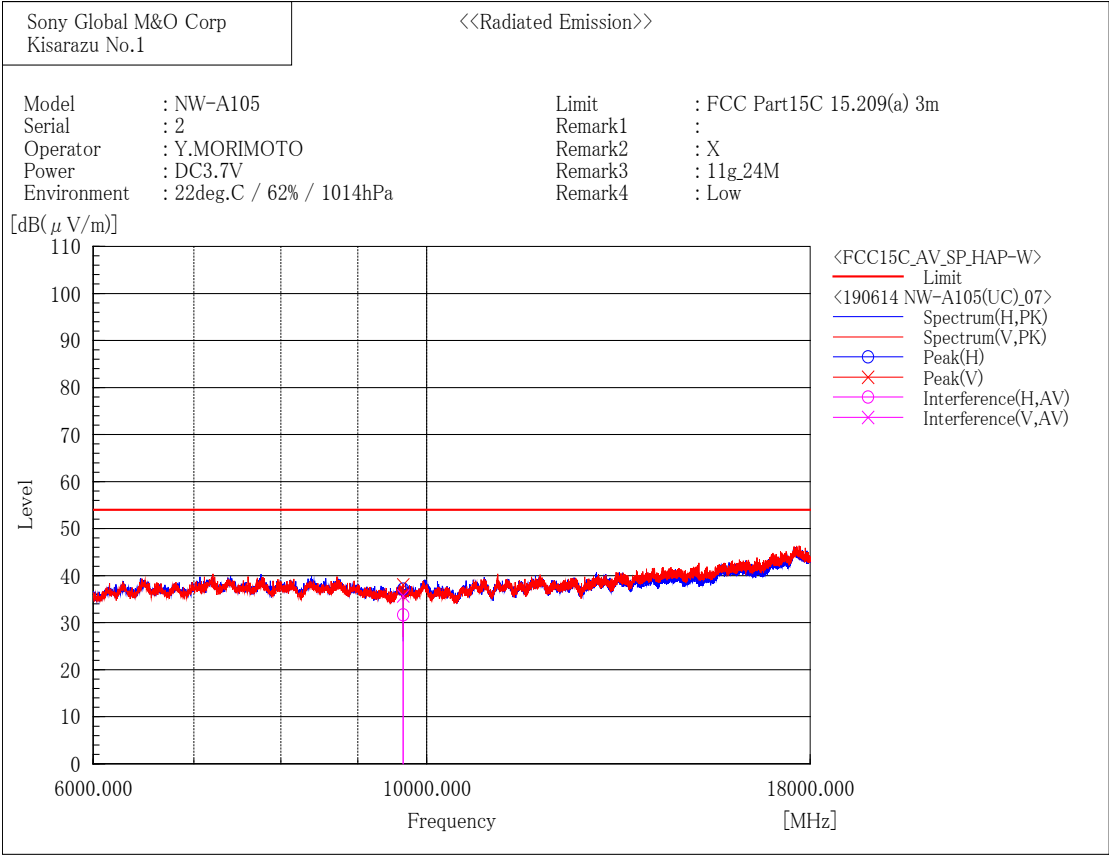
--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9848.000	47.9	-5.1	42.8	74.0	31.2	213.0	136.0

--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9848.000	46.9	-5.1	41.8	74.0	32.2	291.7	218.3

[802.11g/ 2412 MHz]



Final Result

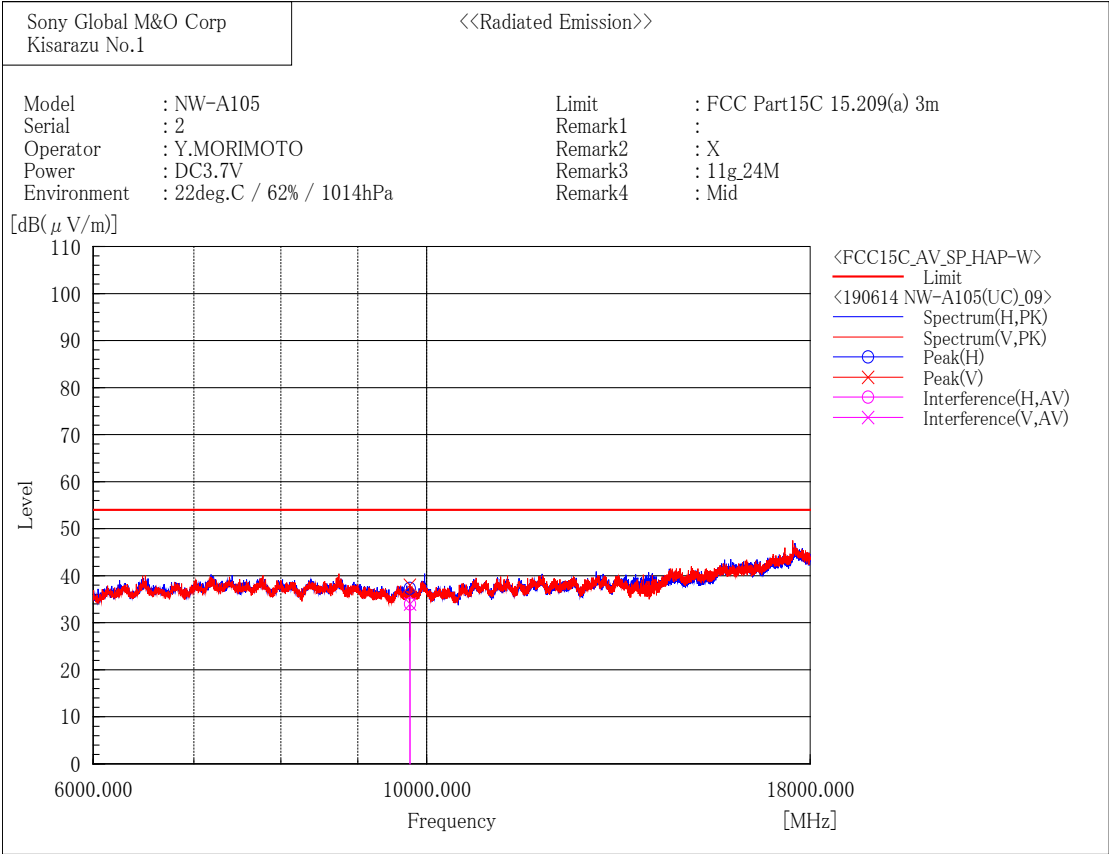
--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9648.000	37.5	-5.8	31.7	54.0	22.3	356.2	93.3

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μ V)]	c. f [dB(1/m)]	Result [dB(μ V/m)]	Limit [dB(μ V/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9648.000	41.5	-5.8	35.7	54.0	18.3	106.4	48.1

[802.11g/ 2437 MHz]



Final Result

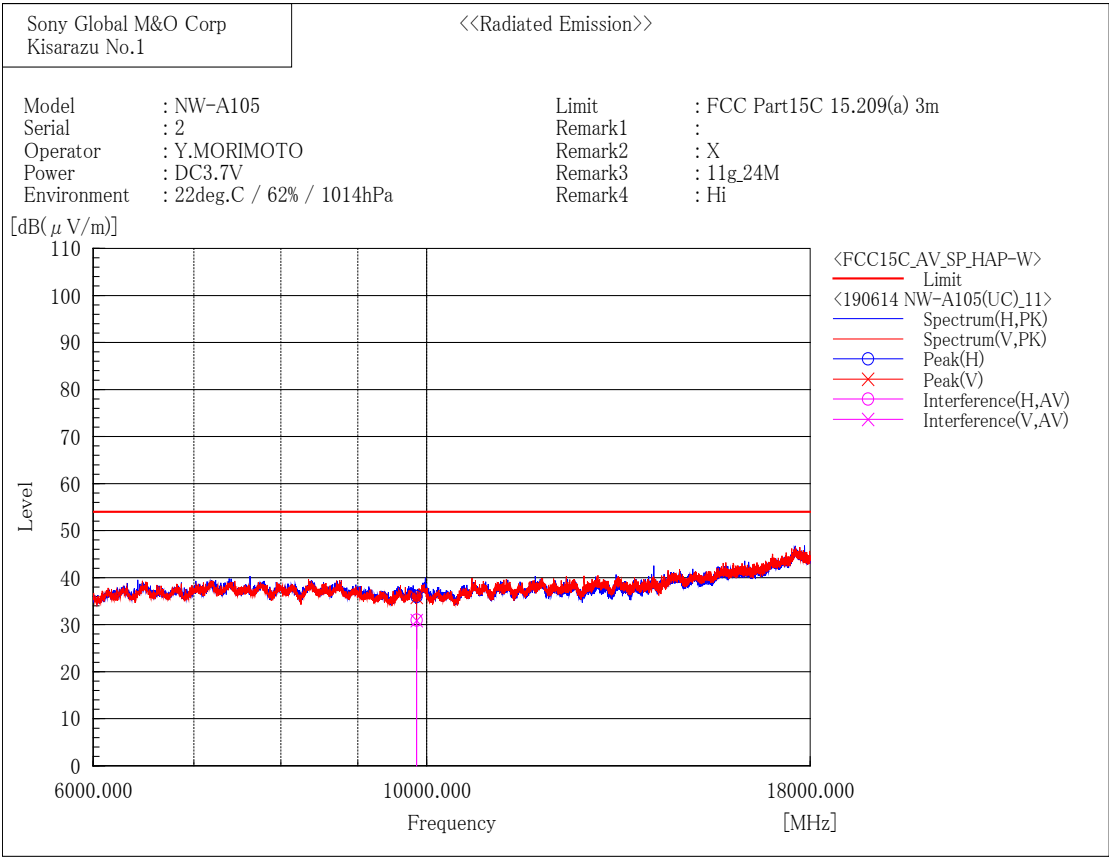
--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9748.000	39.5	-5.5	34.0	54.0	20.0	111.5	65.0

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9748.000	39.5	-5.5	34.0	54.0	20.0	145.8	36.4

[802.11g/ 2462 MHz]



Final Result

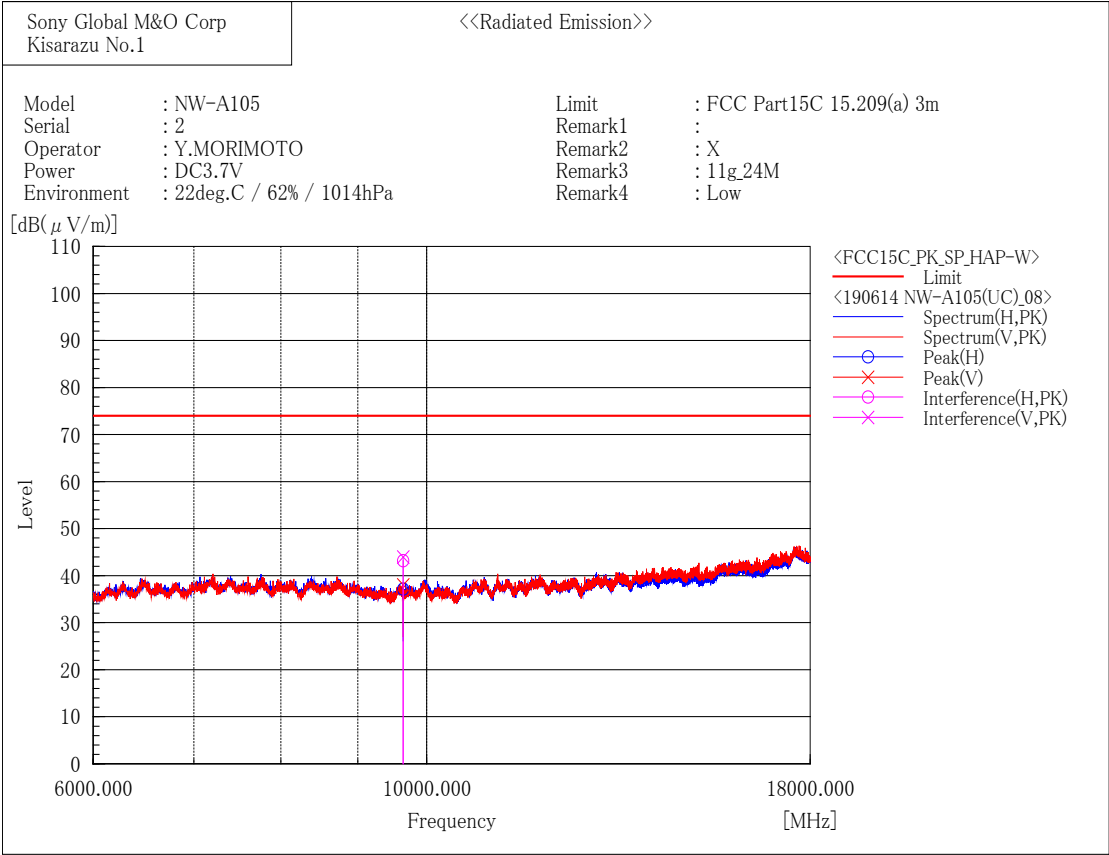
--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9848.000	36.1	-5.1	31.0	54.0	23.0	290.9	94.3

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9848.000	36.0	-5.1	30.9	54.0	23.1	104.7	2.8

[802.11g/ 2412 MHz]



Final Result

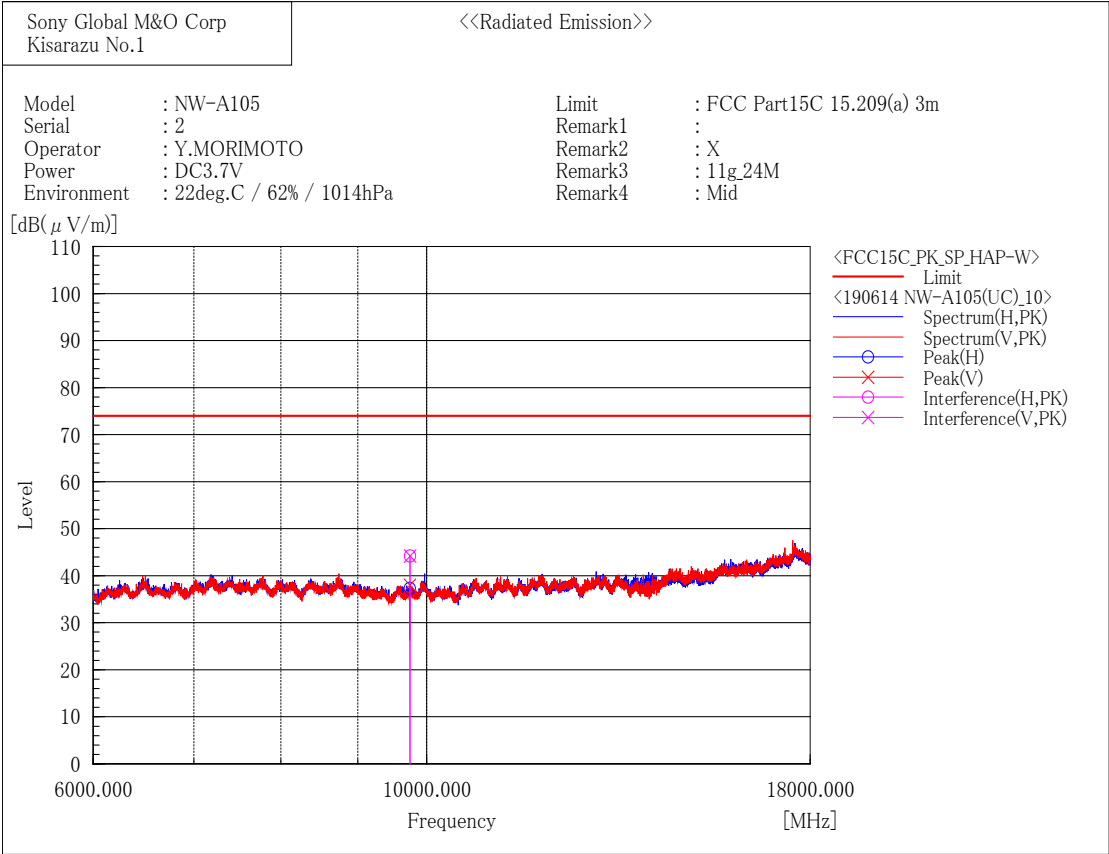
--- Horizontal Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9648.000	49.0	-5.8	43.2	74.0	30.8	356.2	93.3

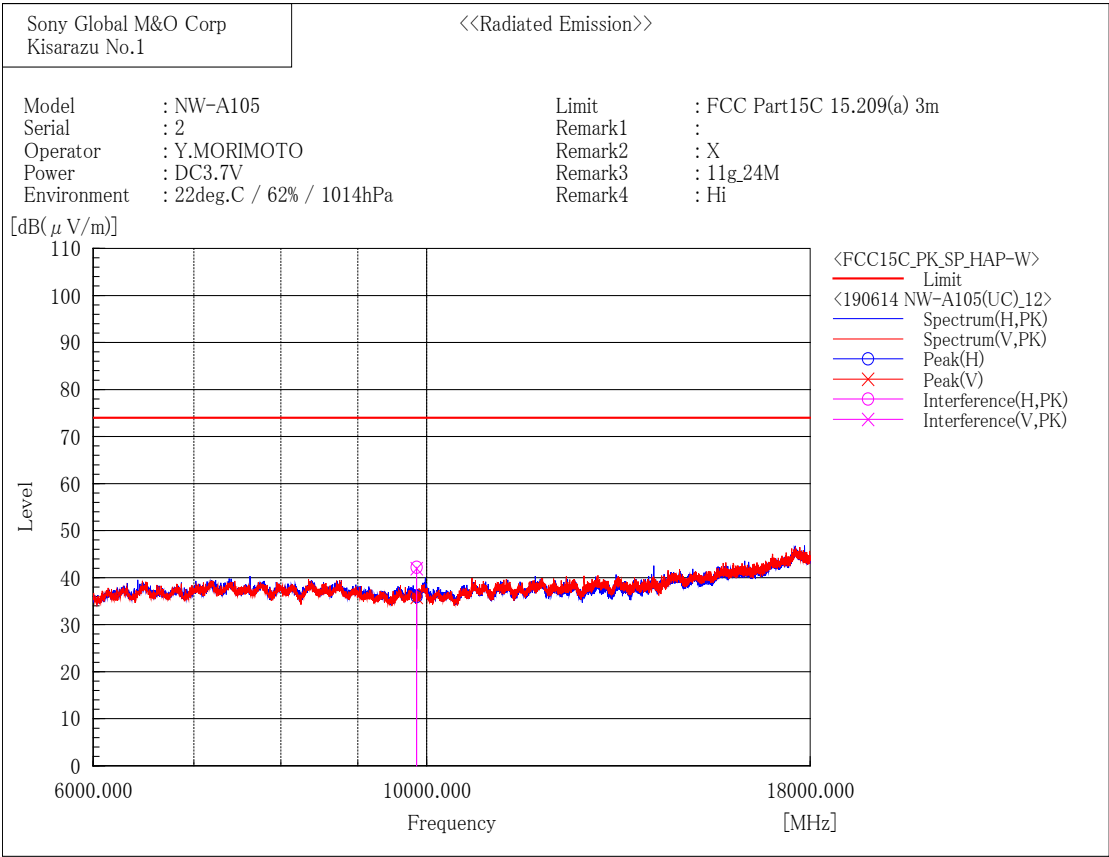
--- Vertical Polarization (PK)---

No.	Frequency [MHz]	Reading [dB(μV)]	c.f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9648.000	49.8	-5.8	44.0	74.0	30.0	106.4	50.1

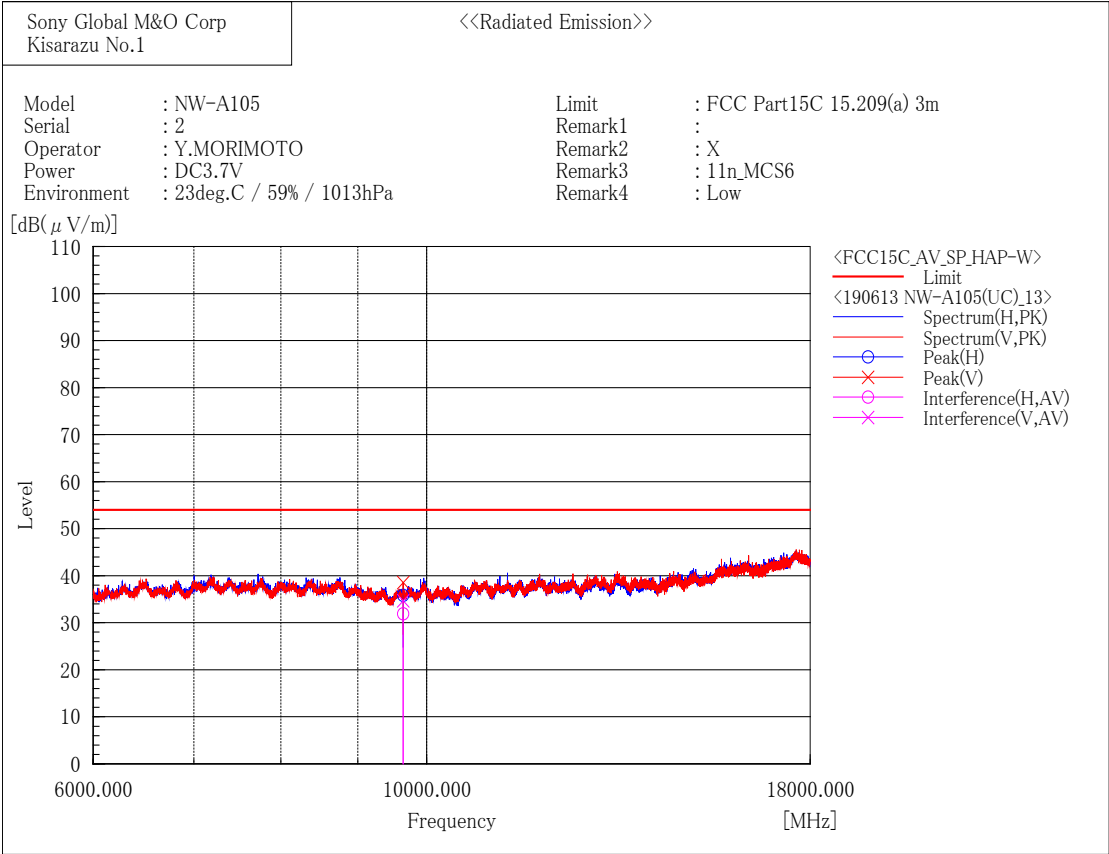
[802.11g/ 2437 MHz]



[802.11g/ 2462 MHz]



[802.11n (HT20)/ 2412 MHz]



Final Result

--- Horizontal Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9648.000	37.7	-5.8	31.9	54.0	22.1	113.9	112.4

--- Vertical Polarization (AV)---

No.	Frequency [MHz]	Reading [dB(μV)]	c. f [dB(1/m)]	Result [dB(μV/m)]	Limit [dB(μV/m)]	Margin [dB]	Height [cm]	Angle [°]
1	9648.000	40.5	-5.8	34.7	54.0	19.3	100.0	9.0

[802.11n (HT20)/ 2437 MHz]

