# RADIO TEST REPORT

(for Bluetooth classic)

| | | |
|---|---|---|
| Project No. | : | JB-Z0425 |
| Client | : | Sony Corporation |
| Address | : | 1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan |
| Type of Equipment | : | Linear PCM Recorder |
| Model No. | : | PCM-A10 |
| FCC ID | : | AK8PCMA10 |
| Regulation Applied | : | 47 CFR Part 15 Subpart C |
| **Final Judgment** | : | **Passed** |
| Sample Receipt | : | June 4, 2018 |
| Testing | : | June 11, 2018 - June 25, 2018 |
| Reported | : | June 26, 2018 |

Reported by :

T. Oho

Takanori Oho
Technical Manager
EMC/RF Test Laboratory, Main Lab.
Design Technology Division
Sony Global Manufacturing & Operations Corporation

Approved Signatory :

T. Kurihara

Teruki Kurihara
Technical Manager
EMC/RF Test Laboratory, Main Lab.
Design Technology Division
Sony Global Manufacturing & Operations Corporation

*Notice*

* *These test results relate only to the items (combination equipment, test configuration, operation condition etc.) tested.*
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* *This report must not be used by the client to claim product endorsement by A2LA or any agency of the U.S. Government.*
* *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.*

ilac-MRA A2LA ACCREDITED
TESTING CERT #3203.01

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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.

# 1. General Information

## 1.1. Description of Equipment Under Test (EUT)

General specification

| | |
|---|---|
| Test Sample Condition | : ☐ Prototype ☒ Pre-production ☐ Mass-production |
| Type of Equipment | : Linear PCM Recorder |
| Trade Name | : SONY |
| Model No. | : PCM-A10 |
| Serial No. | : 0314001, 0314002, 0314005 |
| Power Rating | : DC 3.7V (The EUT was supplied with the power from built-in battery) |

Similar model(s) to be covered by this report

| | |
|---|---|
| Model No. | : None |

Radio specification

| | |
|---|---|
| Function of the Equipment | : Transceiver |
| Operating Frequency | : 2402 - 2480MHz |
| Modulation Type | : FHSS (GFSK, π/4DQPSK, 8DPSK) |
| Channel Spacing | : 1MHz |
| Channel Bandwidth | : 1MHz |
| Number of channels | : 79 |
| Antenna Type | : Pattern antenna |
| Antenna connector Type | : None |
| Antenna Gain | : 0.5 dBi |
| Operating Temperature | : +5 to +35 deg.C |

## 1.2. Summary of Test Result

| Test Item | Worst Margin | Test Frequency band | Results |
|---|---|---|---|
| AC Power-line Conducted Emissions | 27.7 dB (QP)<br>0.205 MHz<br>N | 150 kHz - 30 MHz | Complied |
| 20dB Bandwidth | Refer to the test data | Carrier | Complied |
| Carrier Frequency Separation | Refer to the test data | Carrier | Complied |
| Number of Hopping Frequencies | Refer to the test data | Carrier | Complied |
| Time of Occupancy (Dwell Time) | Refer to the test data | Carrier | Complied |
| Maximum Peak Conducted Output Power | 21.30 dB | Carrier | Complied |
| Radiated Spurious Emissions | 3.5 dB (AV)<br>4803.987 MHz<br>Vertical | 9 kHz - 25 GHz<br>(excluding carrier and band edge) | Complied |
| Conducted Spurious Emissions<br>for Band Edge *1 | 24.67 dB<br>2400.00 MHz | Carrier band edge | Complied |

*1: Conducted Spurious Emission 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 Emission measurement.

Other requirements

Part 15.31(e) Supply voltage requirement

: Complied (The EUT was tested with a new battery)

Part 15.203 / 212 Antenna requirement

: Complied (The EUT has an internal antenna which cannot be replaced by users)

## 1.3. Tested Methodology

Test Standard : 47 CFR Part15 Subpart C Section 15.207 / 15.247
Test Method : ANSI C63.10 - 2013
DA 00-705 (March 30, 2000)

Test Condition

AC Power-line Conducted Emissions

Dimensions of the EUT table : 0.8m height, 2m width and 1m depth.

Radiated Spurious Emissions

Test Distance : ☒ 3 m ☐ 10m (9kHz - 30 MHz)
☒ 3 m ☐ 10m (30 - 1000 MHz)
☒ 3 m (1 - 25 GHz)

Dimensions of the EUT table : 0.8m (below 1GHz) or 1.5m (above 1GHz) height, 2m width and 1m depth.

## 1.4. Measurement Procedures

We performed the measurements in accordance with NV3-12, available upon the request.

☒ No deviation
☐ Deviation from the above procedure

The summary of the above procedure is mentioned below

Antenna-port Conducted Measurements

1. Antenna-port of the EUT was connected to the power sensor (Maximum peak conducted output power) or spectrum analyzer. (other test items).

2. For each EUT operation mode, the Antenna-port Conducted Measurements were measured with spectrum analyzer.

| Test Item<br>* Antenna-port Conducted Measurements | Detector | RBW |
|---|---|---|
| 20dB Bandwidth | Peak | 30 kHz |
| Carrier Frequency Separation | Peak | 100 kHz |
| Number of Hopping Frequencies | Peak | 100 kHz |
| Time of Occupancy (Dwell Time) | Peak | 1 MHz |
| Maximum Peak Conducted Output Power | Peak | N/A |
| Conducted Spurious Emissions for Band Edge | Peak | 100 kHz |

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.
     (150kHz - 30MHz, peak detector, RBW: 10 kHz)

8. On the worst condition of the EUT found in above, choose the 6 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)

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 kHz - 490 kHz [Limit at 3m] = [Limit at 300m] + 40log (300[m] / 3[m])
   490 kHz - 30 MHz [Limit at 3m] = [Limit at 30m] + 40log (30[m] / 3[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 - 25 GHz, peak detector)
6. On the worst arrangement of the EUT found in above, choose the three 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;

| | 9kHz - 30MHz | 30MHz - 1000MHz | 1 GHz- 25 GHz |
|---|---|---|---|
| Antenna | Loop Antenna | Bi-conical Antenna,<br>Log-periodic Antenna | Horn Antenna |
| Antenna scanning range | 1m,<br>Vertical, 360 degrees | 1 - 4m,<br>Horizontal and Vertical | 1 - 4m *,<br>Horizontal and Vertical |
| Turntable rotating range | 360 degrees | 360 degrees | 360 degrees |

*: 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 - 90 kHz<br>110 kHz - 490 kHz | 90 kHz- 110 kHz<br>490 kHz - 30 MHz | 30 MHz - 1000 MHz | 1 GHz- 25 GHz |
|---|---|---|---|---|
| Detector | Peak / Average | Quasi-peak | Quasi-peak | Peak / Average |
| RBW | 9 kHz (6 dB) *1 | 9 kHz (6 dB) *1 | 120 kHz (6 dB) | 1 MHz (6 dB) |
| VBW | N/A | N/A | N/A | 3 MHz (for peak)<br>10 Hz (for average) |
| 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.

7. If the final measurement result exceeded the limit(FCC 15.209(a)) in non-restricted band(excluding carrier band edges), the measurement is carried out additionally and compared with the limit (-20dBc) with follows;

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

| | 9 kHz - 150 kHz | 150 kHz - 30MHz | above 30MHz |
|---|---|---|---|
| Detector | Peak | Peak | Peak |
| RBW | 3 dB RBW: 300 Hz * | 3 dB RBW: 10 kHz * | 3 dB RBW: 100 kHz |
| Instrument | Spectrum analyzer | Spectrum analyzer | Spectrum analyzer |

*: Correction factor of RBW was compensated to a measurement result by the following formula.
C.F. of RBW [dB] = 10*log (100kHz / used RBW)

8. Although these tests 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.

## 1.5. Test Facility

Address of Test Facility

Test Facility Name : Sony Global Manufacturing & Operations Corporation
EMC/RF Test Laboratory, Main Lab.

Address : Kisarazu Site 8-4 Shiomi Kisarazu-shi, Chiba, 292-0834 Japan

Phone : +81 438 37 2750

AC Power-line Conducted Emissions

Shielded Room

☒ 4th Site ☐ EMC Site

Radiated Spurious Emission

Semi-Anechoic chamber

☐ 4th Site ☒ EMC Site

Antenna-port Conducted Measurements *

Shielded Room

☒ 4th Site SR1

*Note: This item contains the following

-20dB Bandwidth
-Carrier Frequency Separation
-Number of Hopping Frequencies
-Time of Occupancy (Dwell Time)
-Maximum Peak Conducted Output Power
-Conducted Spurious Emissions for Band Edge

A2LA Accreditation for Test Facility

The above test facility has been fully reported to A2LA and accepted as follows:

A2LA Certificate No. : 3203.01

Cert. Validated Date : 31 Oct 2019

## 1.6. Uncertainty

| Test Item | Frequency | 4th Site SR1 |
|---|---|---|
| Conducted Output Power | 1 - 6GHz | ± 0.84 dB |
| Conducted Spurious Emissions | 1 - 6GHz | ± 0.89 dB |

| Test Item | Frequency | Distance | 4th Site | EMC Site |
|---|---|---|---|---|
| AC Power-line Conducted Emissions | 150kHz - 30MHz | - | ± 3.34 dB | ± 3.35 dB |
| Radiated Emissions | 9 kHz - 30 MHz | 3m | ± 2.59 dB | ± 3.12 dB |
| | 30 - 300 MHz | 3m | ± 4.18 dB | ± 5.26 dB |
| | 300 - 1000 MHz | 3m | ± 4.04 dB | ± 4.37 dB |
| | 1 - 6 GHz | 3m | ± 4.63 dB | ± 4.90 dB |
| | 6 - 18 GHz | 3m | ± 5.31 dB | ± 5.50 dB |
| | 18 - 26.5 GHz | 3m | ± 5.78 dB | ± 5.63 dB |

# 2. System Test Configuration

## 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. Test Operating Conditions

The tests have been carried out the following conditions.

| Test Items | Operating Mode *1 | Packet type *2,3 | Test Channels |
|---|---|---|---|
| AC Power-line Conducted Emissions *4 | BDR | DH5 | 2402MHz |
| Carrier Frequency Separation,<br>Number of Hopping Frequencies,<br>Time of Occupancy (Dwell Time) | BDR | DH5 | Hopping ON |
| | EDR | 3DH5 | |
| 20dB Bandwidth,<br>Maximum Peak Conducted Output Power,<br>Radiated Spurious Emissions | BDR | DH5 | 2402MHz,<br>2441MHz,<br>2480MHz |
| | EDR | 2DH5<br>3DH5 | |
| Conducted Spurious Emissions for Band Edge | BDR | DH5 | 2402MHz |
| | EDR | 3DH5 | |

Note:

*1: Inquiry mode was not performed based on the result of pre-compliance testing.

*2: The worst packet type has been decided based on the result of maximum duty cycle and pre-compliance testing in the actual product specification.

*3: Packet type for EDR has been decided based on the result of Maximum Peak Conducted Output Power.

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

The Software for Operating Mode Name : nmobile_icx0471
Version : 0.80.00

Special accessories needed for connecting the EUT to achieve compliance:

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

## 2.3. 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 :

## 2.4. Configuration of Tested System

Antenna-port Conducted Measurements

The equipment under test (EUT)

| Symbol | Item | Manufacturer | Model No. | Serial No. |
|---|---|---|---|---|
| A-1 | Linear PCM Recorder | SONY | PCM-A10 | 0304001 |

Support equipment for operation

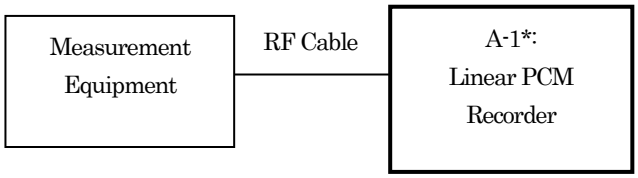
| Symbol | Item | Manufacturer | Model No. | Serial No. |
|---|---|---|---|---|
| - | - | - | - | - |

Type of cable

| Symbol | Description | Identification (Manufacturer etc.) | Shielded YES / NO | Ferrite Core | Length (m) | Bundled |
|---|---|---|---|---|---|---|
| - | - | - | - | - | - | - |

System configuration

*: EUT



AC Power-line Conducted Emissions and Radiated Spurious Emissions Measurement

The equipment under test (EUT)

| Symbol | Item | Manufacturer | Model No. | Serial No. |
|---|---|---|---|---|
| A-2 | Linear PCM Recorder | SONY | PCM-A10 | 0304005 |

Support equipment for operation

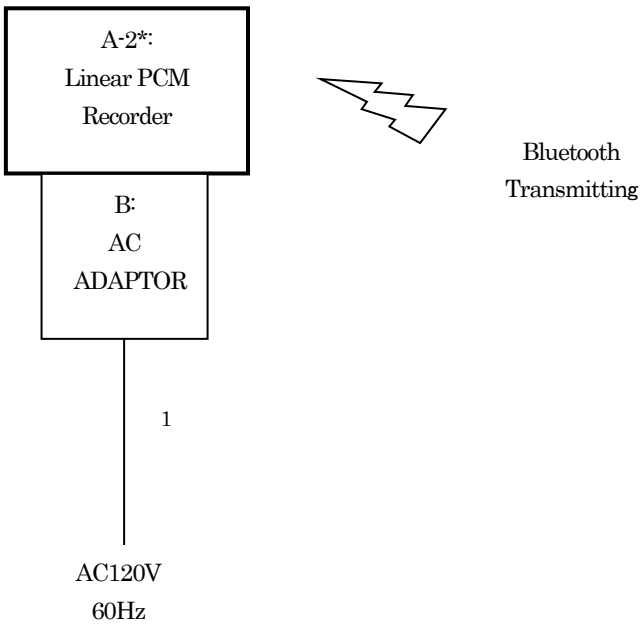
| Symbol | Item | Manufacturer | Model No. | Serial No. |
|---|---|---|---|---|
| B | AC ADAPTOR | SONY | AC-UD20 | 13026000126 |

Type of cable

| Symbol | Description | Identification (Manufacturer etc.) | Shielded YES / NO | Ferrite Core | Length (m) | Bundled |
|---|---|---|---|---|---|---|
| 1 | AC Extension Cable | - | NO | NO | 0.8 | - |

System configuration

*: EUT



Radiated Spurious Emissions Measurement

The equipment under test (EUT)

| Symbol | Item | Manufacturer | Model No. | Serial No. |
|---|---|---|---|---|
| A-3 | Linear PCM Recorder | SONY | PCM-A10 | 0314002 |

Support equipment for operation

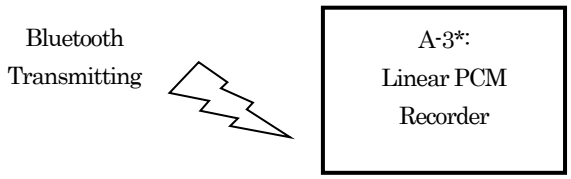
| Symbol | Item | Manufacturer | Model No. | Serial No. |
|---|---|---|---|---|
| - | - | - | - | - |

Type of cable

| Symbol | Description | Identification (Manufacturer etc.) | Shielded YES / NO | Ferrite Core | Length (m) | Bundled |
|---|---|---|---|---|---|---|
| - | - | - | - | - | - | - |

System configuration

*: EUT



# 3. Test Data

## 3.1. AC Power-line Conducted Emissions

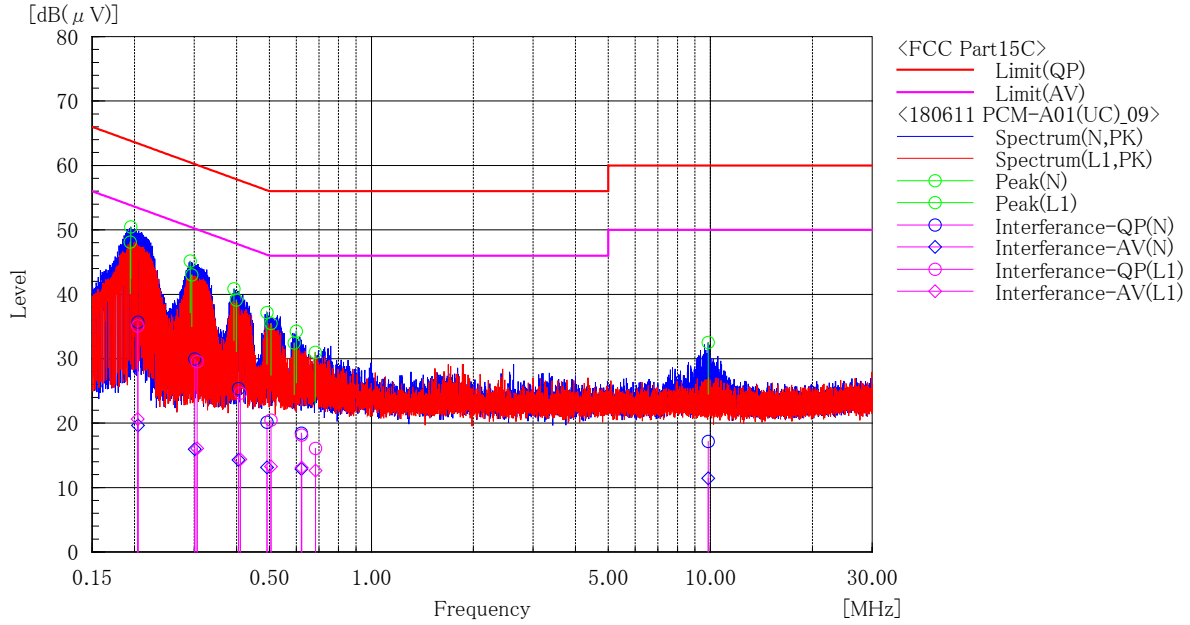
1) Date of measurement : June 11, 2018
[BDR( DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu DTS

<<Conducted Emission>>

Model : PCM-A10
Serial : 0314005
Operator : Y.MORIMOTO
Power : AC120V / 60Hz
Temp./Hum. : 23deg./ 53%

Limit : FCC Part15C
Remark1 :
Remark2 :
Remark3 : DH5
Remark4 : Low




Final Result

--- N Phase ---

| No. | Frequency [MHz] | Reading QP [dB(μV)] | Reading AV [dB(μV)] | c.f [dB] | Result QP [dB(μV)] | Result AV [dB(μV)] | Limit QP [dB(μV)] | Limit AV [dB(μV)] | Margin QP [dB] | Margin AV [dB] |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.205 | 19.6 | 3.5 | 16.1 | 35.7 | 19.6 | 63.4 | 53.4 | 27.7 | 33.8 |
| 2 | 0.301 | 13.8 | -0.1 | 16.1 | 29.9 | 16.0 | 60.2 | 50.2 | 30.3 | 34.2 |
| 3 | 0.405 | 9.1 | -2.0 | 16.3 | 25.4 | 14.3 | 57.7 | 47.7 | 32.3 | 33.4 |
| 4 | 0.492 | 3.9 | -3.2 | 16.3 | 20.2 | 13.1 | 56.1 | 46.1 | 35.9 | 33.0 |
| 5 | 0.622 | 2.1 | -3.4 | 16.3 | 18.4 | 12.9 | 56.0 | 46.0 | 37.6 | 33.1 |
| 6 | 9.847 | 0.8 | -4.9 | 16.3 | 17.1 | 11.4 | 60.0 | 50.0 | 42.9 | 38.6 |

--- L1 Phase ---

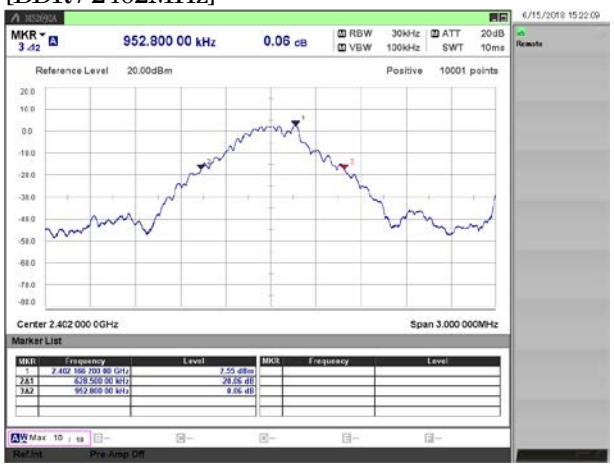
| No. | Frequency [MHz] | Reading QP [dB(μV)] | Reading AV [dB(μV)] | c.f [dB] | Result QP [dB(μV)] | Result AV [dB(μV)] | Limit QP [dB(μV)] | Limit AV [dB(μV)] | Margin QP [dB] | Margin AV [dB] |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.205 | 18.9 | 4.4 | 16.2 | 35.1 | 20.6 | 63.4 | 53.4 | 28.3 | 32.8 |
| 2 | 0.306 | 13.4 | 0.0 | 16.1 | 29.5 | 16.1 | 60.1 | 50.1 | 30.6 | 34.0 |
| 3 | 0.411 | 8.4 | -1.9 | 16.3 | 24.7 | 14.4 | 57.6 | 47.6 | 32.9 | 33.2 |
| 4 | 0.506 | 4.2 | -3.1 | 16.3 | 20.5 | 13.2 | 56.0 | 46.0 | 35.5 | 32.8 |
| 5 | 0.623 | 1.8 | -3.2 | 16.3 | 18.1 | 13.1 | 56.0 | 46.0 | 37.9 | 32.9 |
| 6 | 0.684 | -0.2 | -3.6 | 16.3 | 16.1 | 12.7 | 56.0 | 46.0 | 39.9 | 33.3 |

## 3.2. 20dB Bandwidth

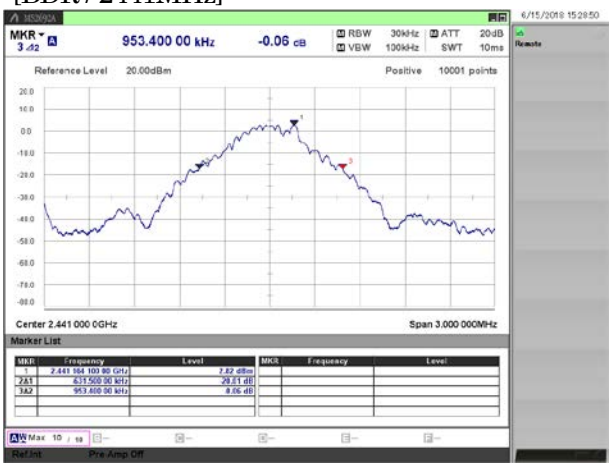
1) Ambient temperature : 23.4 deg.C
2) Relative humidity : 65.0 %
3) Date of measurement : June 15, 2018
4) Measured by : M.KOUGA
5) Operating mode : Transmitting mode

| Mode | | Channel [MHz] | Result [MHz] | Limit [MHz] |
|---|---|---|---|---|
| BDR | DH5 | 2402 | 0.953 | - |
| | | 2441 | 0.953 | - |
| | | 2480 | 0.953 | - |
| EDR | 3DH5 | 2402 | 1.290 | - |
| | | 2441 | 1.275 | - |
| | | 2480 | 1.277 | - |

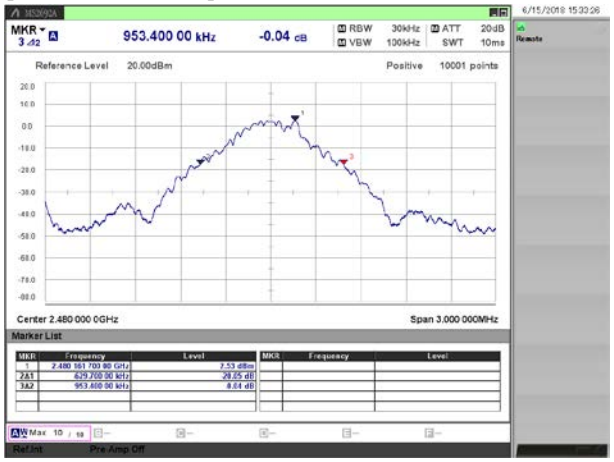
[BDR / 2402MHz]




[BDR / 2441MHz]

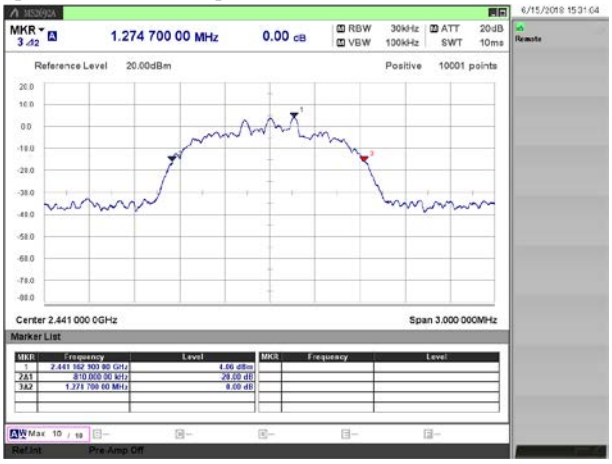



[BDR / 2480MHz]

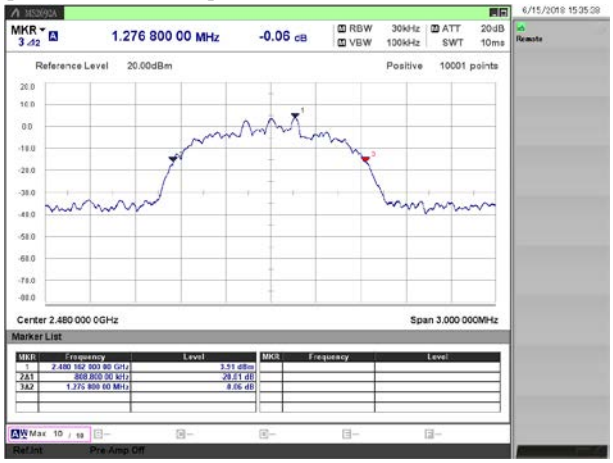


[EDR / 2402MHz]


[EDR / 2441MHz]




[EDR / 2480MHz]



## 3.3. Carrier Frequency Separation

1) Ambient temperature : 23.4 deg.C
2) Relative humidity : 65.0 %
3) Date of measurement : June 15, 2018
4) Measured by : M.KOUGA
5) Operating mode : Transmitting mode

| Mode | | Reading [kHz] | Limit [kHz] |
|---|---|---|---|
| BDR | DH5 | 999.6 | ≧ 635.6 |
| EDR | 3DH5 | 1011.6 | ≧ 860.0 |

[BDR]


[EDR]

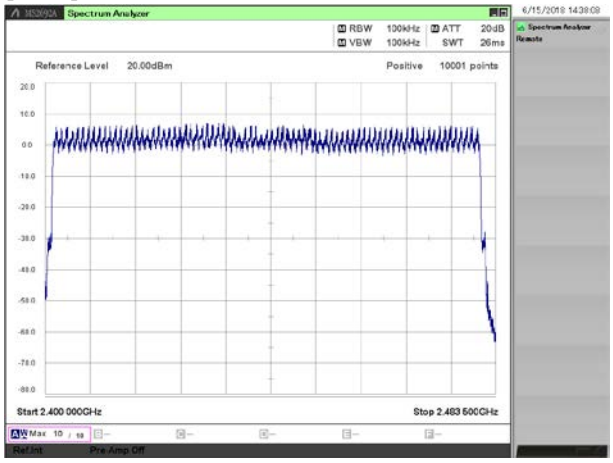
## 3.4. Number of Hopping Frequencies

1) Ambient temperature : 23.4 deg.C
2) Relative humidity : 65.0 %
3) Date of measurement : June 15, 2018
4) Measured by : M.KOUGA
5) Operating mode : Transmitting mode

| Mode | | Number [channel] | Limit [channel] |
|---|---|---|---|
| BDR | DH5 | 79 | ≧ 15 |
| EDR | 3DH5 | 79 | ≧ 15 |

[BDR]


[EDR]

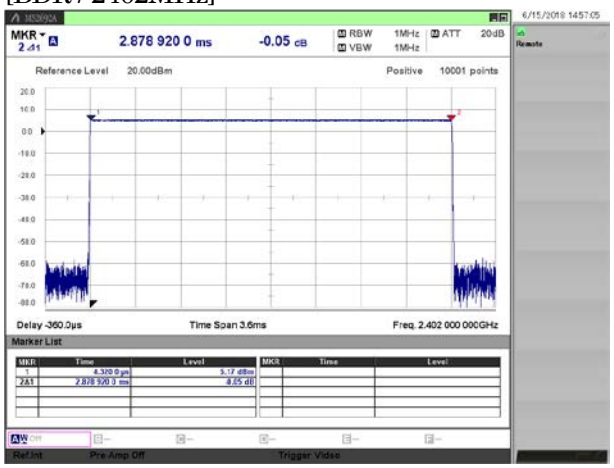


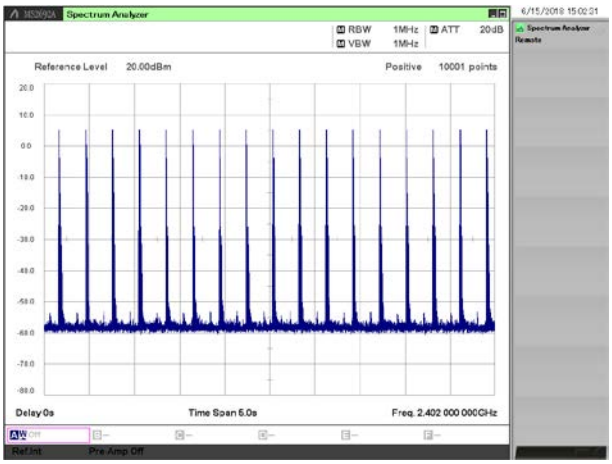
## 3.5. Time of Occupancy (Dwell Time)

1) Ambient temperature : 23.4 deg.C
2) Relative humidity : 65.0 %
3) Date of measurement : June 15, 2018
4) Measured by : M.KOUGA
5) Operating mode : Transmitting mode

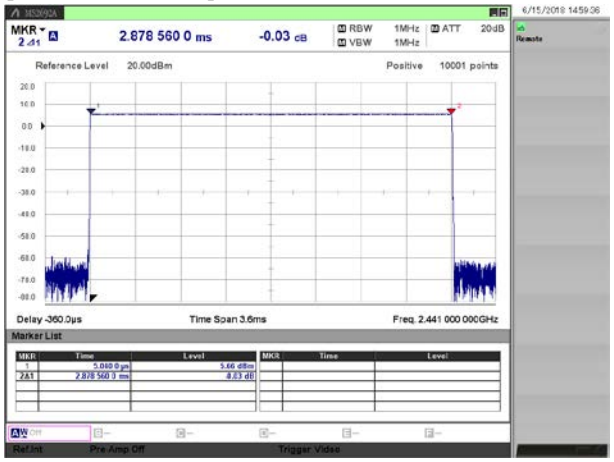
| Mode | | Channel [MHz] | Dwell Time [msec] | Cycle [time] | Result [msec] | Limit [msec] |
|---|---|---|---|---|---|---|
| BDR | DH5 | 2402 | 2.88 | 17.0 | 309.3 | ≦ 400.0 |
| | | 2441 | 2.88 | 17.0 | 309.3 | ≦ 400.0 |
| | | 2480 | 2.88 | 17.0 | 309.3 | ≦ 400.0 |
| EDR | 3DH5 | 2402 | 2.89 | 17.0 | 310.8 | ≦ 400.0 |
| | | 2441 | 2.89 | 17.0 | 310.8 | ≦ 400.0 |
| | | 2480 | 2.89 | 17.0 | 310.8 | ≦ 400.0 |

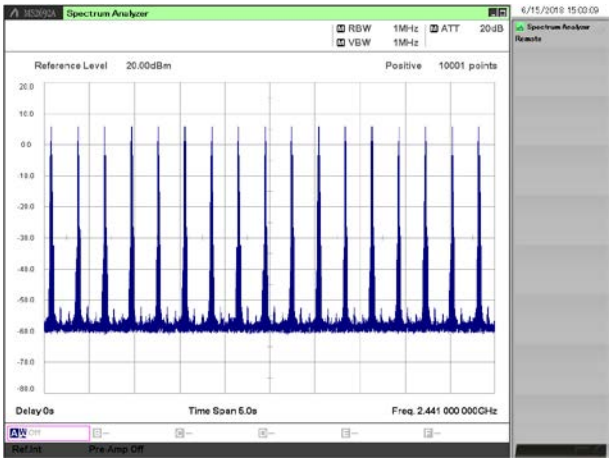
[BDR / 2402MHz]



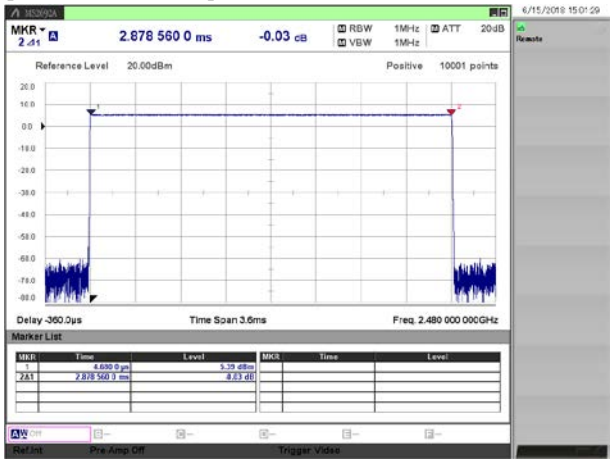



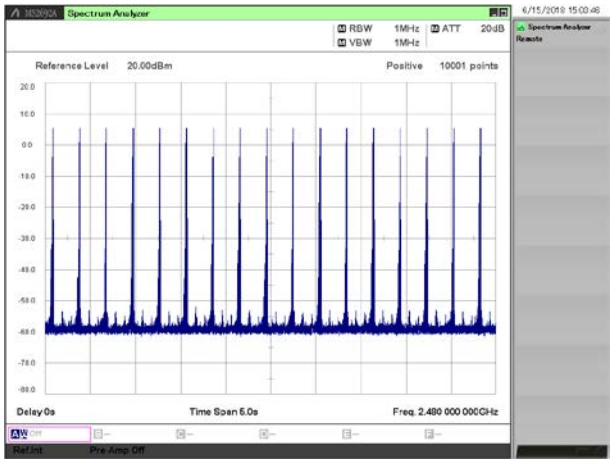

[BDR / 2441MHz]



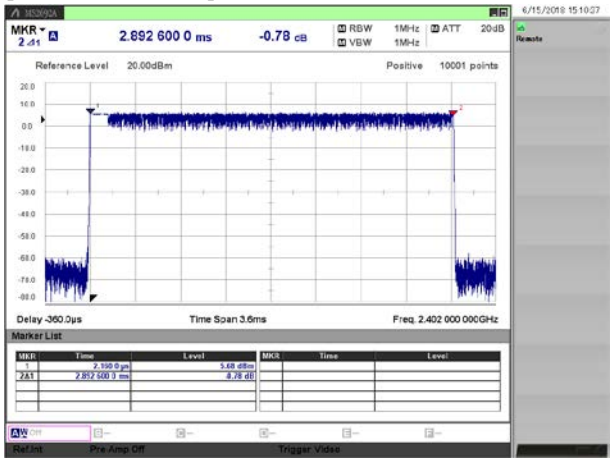



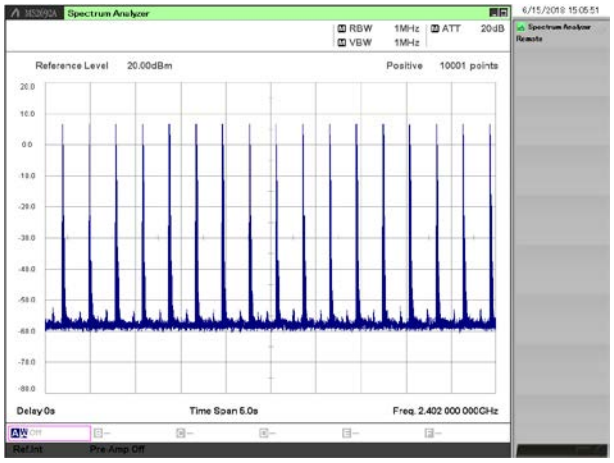
[BDR / 2480MHz]



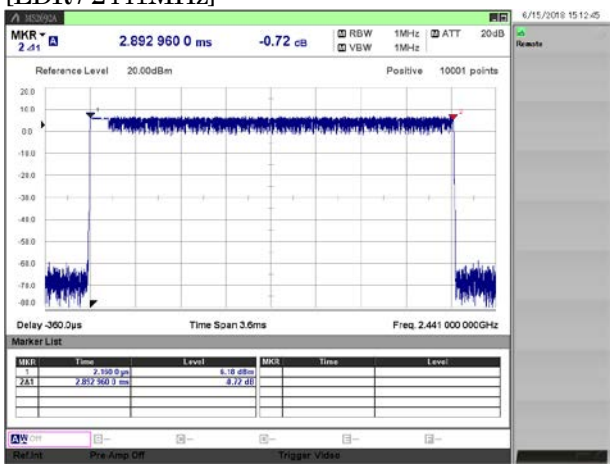



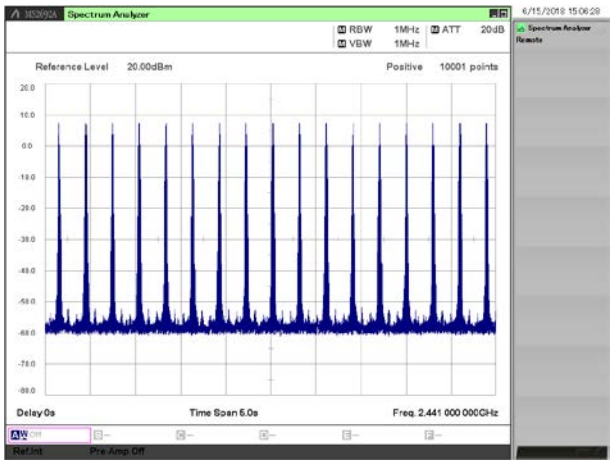

[EDR / 2402MHz]



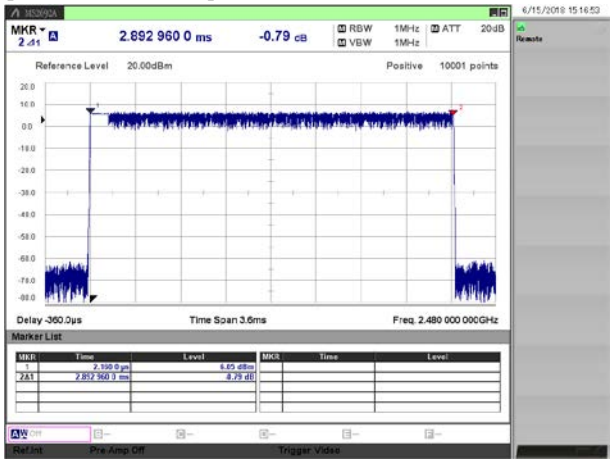



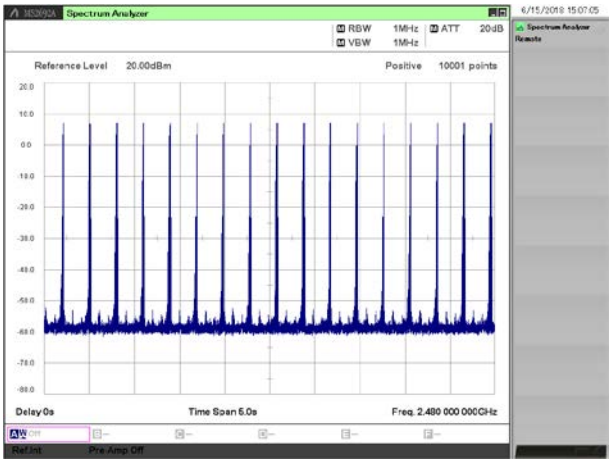

[EDR / 2441MHz]



[EDR / 2480MHz]


MKR
2.892 960 0 ms
-0.79 dB
RBW 1MHz
VBW 1MHz
ATT 20dB
Reference Level 20.00dBm
Positive 10001 points
Delay -360.0µs
Time Span 3.6ms
Freq 2.480 000 000GHz
Marker List


Spectrum Analyzer
RBW 1MHz
VBW 1MHz
ATT 20dB
Reference Level 20.00dBm
Positive 10001 points
Delay 0s
Time Span 5.0s
Freq 2.480 000 000GHz

## 3.6. Maximum Peak Conducted Output Power

1) Ambient temperature : 23.6 deg.C
2) Relative humidity : 53.0 %
3) Date of measurement : June 14, 2018
4) Measured by : M.KOUGA
5) Operating mode : Transmitting mode

Peak Conducted Output Power

| Mode | | Channel [MHz] | Reading(PK) [dBm] | C.F. [dB] | Result(PK) [dBm] | Result(PK) [W] | Limit [dBm] | Limit [W] | Margin [dB] |
|---|---|---|---|---|---|---|---|---|---|
| BDR | DH5 | 2402 | 6.30 | 0.59 | 6.89 | 0.00489 | 30.0 | 1.0 | 23.11 |
| | | 2441 | 6.36 | 0.59 | 6.95 | 0.00495 | 30.0 | 1.0 | 23.05 |
| | | 2480 | 6.27 | 0.59 | 6.86 | 0.00485 | 30.0 | 1.0 | 23.14 |
| EDR | 2DH5 | 2402 | 7.62 | 0.59 | 8.21 | 0.00662 | 30.0 | 1.0 | 21.79 |
| | | 2441 | 7.76 | 0.59 | 8.35 | 0.00684 | 30.0 | 1.0 | 21.65 |
| | | 2480 | 7.77 | 0.59 | 8.36 | 0.00685 | 30.0 | 1.0 | 21.64 |
| | 3DH5 | 2402 | 7.94 | 0.59 | 8.53 | 0.00713 | 30.0 | 1.0 | 21.47 |
| | | 2441 | 8.11 | 0.59 | 8.70 | 0.00741 | 30.0 | 1.0 | 21.30 |
| | | 2480 | 8.11 | 0.59 | 8.70 | 0.00741 | 30.0 | 1.0 | 21.30 |

Average Conducted Output Power (for SAR measurement)

| Mode | | Channel [MHz] | Reading(AV) [dBm] | C.F. [dB] | Duty Factor [dB] | Result(AV) [dBm] | Result(AV) [W] |
|---|---|---|---|---|---|---|---|
| BDR | DH5 | 2402 | 4.70 | 0.59 | 1.15 | 6.44 | 0.00441 |
| | | 2441 | 4.79 | 0.59 | 1.15 | 6.53 | 0.00450 |
| | | 2480 | 4.73 | 0.59 | 1.15 | 6.47 | 0.00444 |
| EDR | 2DH5 | 2402 | 4.32 | 0.59 | 1.13 | 6.04 | 0.00402 |
| | | 2441 | 4.47 | 0.59 | 1.13 | 6.19 | 0.00416 |
| | | 2480 | 4.48 | 0.59 | 1.13 | 6.20 | 0.00417 |
| | 3DH5 | 2402 | 4.29 | 0.59 | 1.13 | 6.01 | 0.00399 |
| | | 2441 | 4.45 | 0.59 | 1.13 | 6.17 | 0.00414 |
| | | 2480 | 4.47 | 0.59 | 1.13 | 6.19 | 0.00416 |

Duty Cycle check

| Mode | | Channel [MHz] | T(on+off) [msec] | T(on) [msec] | Duty Cycle [%] |
|---|---|---|---|---|---|
| BDR | DH1 | 2441 | 1.250 | 0.376 | 30.08 |
| | DH3 | 2441 | 2.500 | 1.631 | 65.24 |
| | DH5 | 2441 | 3.750 | 2.878 | 76.75 |
| EDR | 2DH1 | 2441 | 1.250 | 0.391 | 31.31 |
| | 2DH3 | 2441 | 2.500 | 1.644 | 65.76 |
| | 2DH5 | 2441 | 3.750 | 2.891 | 77.11 |
| | 3DH1 | 2441 | 1.250 | 0.391 | 31.31 |
| | 3DH3 | 2441 | 2.500 | 1.642 | 65.68 |
| | 3DH5 | 2441 | 3.750 | 2.892 | 77.13 |

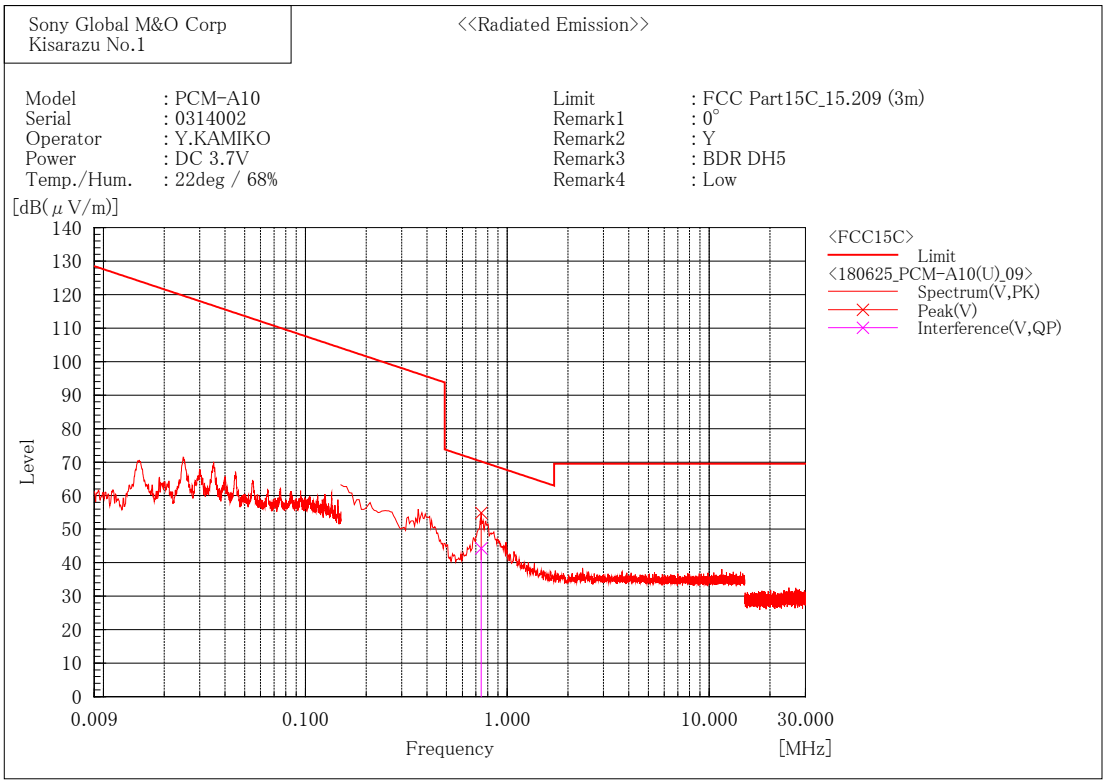
## 3.7. Radiated Spurious Emissions

1) Date of measurement

| | | | |
|---|---|---|---|
| 9kHz - 30MHz | : June 25, 2018 | (all mode) | |
| 30MHz - 1000MHz | : June 25, 2018 | (all mode) | |
| 1GHz - 6GHz | : June 14, 2018 | (all mode) | June 14, 2018 (band edge plot data) |
| 6GHz - 18GHz | : June 16, 2018 | (all mode) | |
| 18GHz - 25GHz | : June 18, 2018 | (all mode) | |

**9 kHz - 30 MHz**

[BDR( DH5 )/2402MHz]




Final Result

--- Vertical Polarization (QP)---

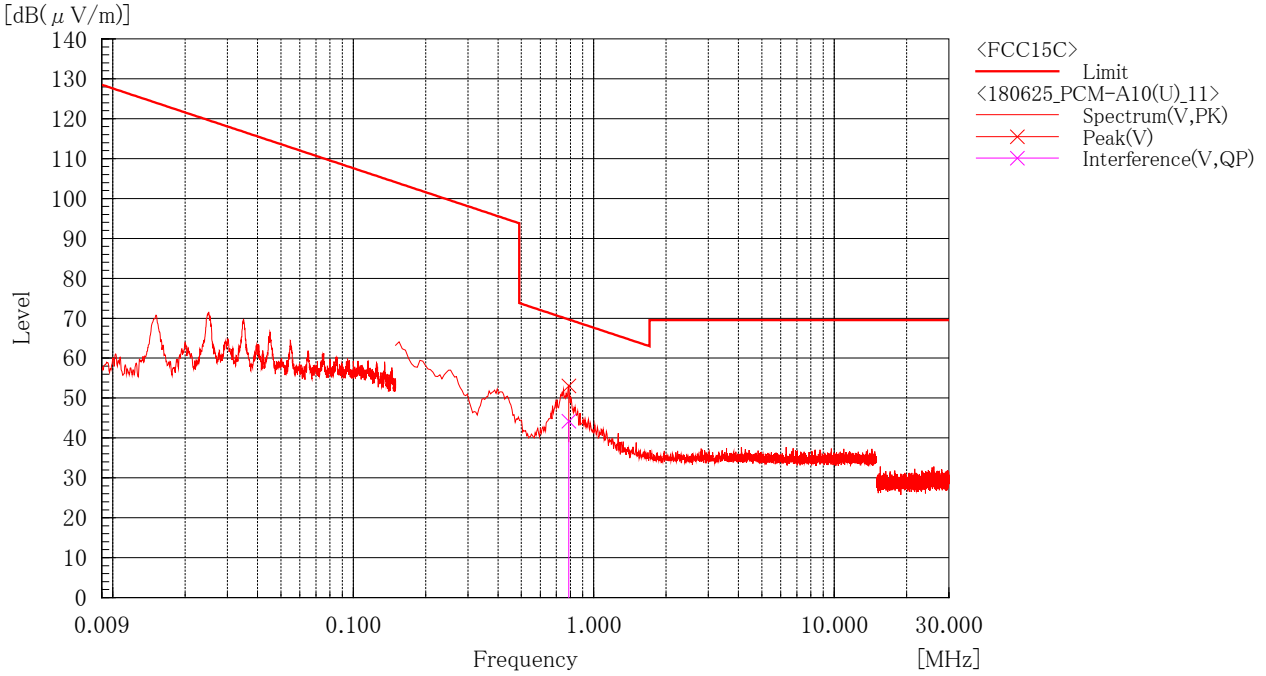
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [°] |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.744 | 24.8 | 19.5 | 44.3 | 70.2 | 25.9 | 150.0 | 75.6 |

[BDR( DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C_15.209 (3m) |
| Serial | : 0314002 | Remark1 | : 0° |
| Operator | : Y.KAMIKO | Remark2 | : Y |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 22deg / 68% | Remark4 | : Mid |




Final Result

--- Vertical Polarization (QP)---

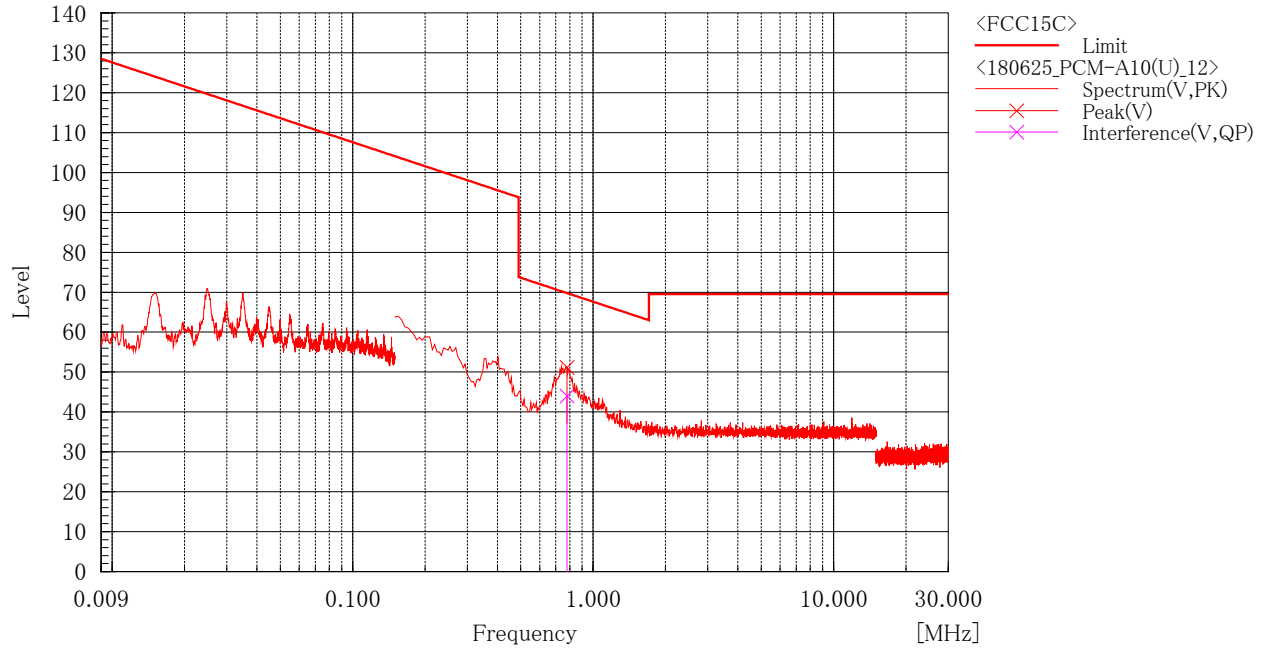
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.789 | 24.7 | 19.5 | 44.2 | 69.7 | 25.5 | 150.0 | 225.4 |

[BDR( DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C_15.209 (3m) |
| Serial | : 0314002 | Remark1 | : 0° |
| Operator | : Y.KAMIKO | Remark2 | : Y |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 22deg / 68% | Remark4 | : High |




Final Result

--- Vertical Polarization (QP)---

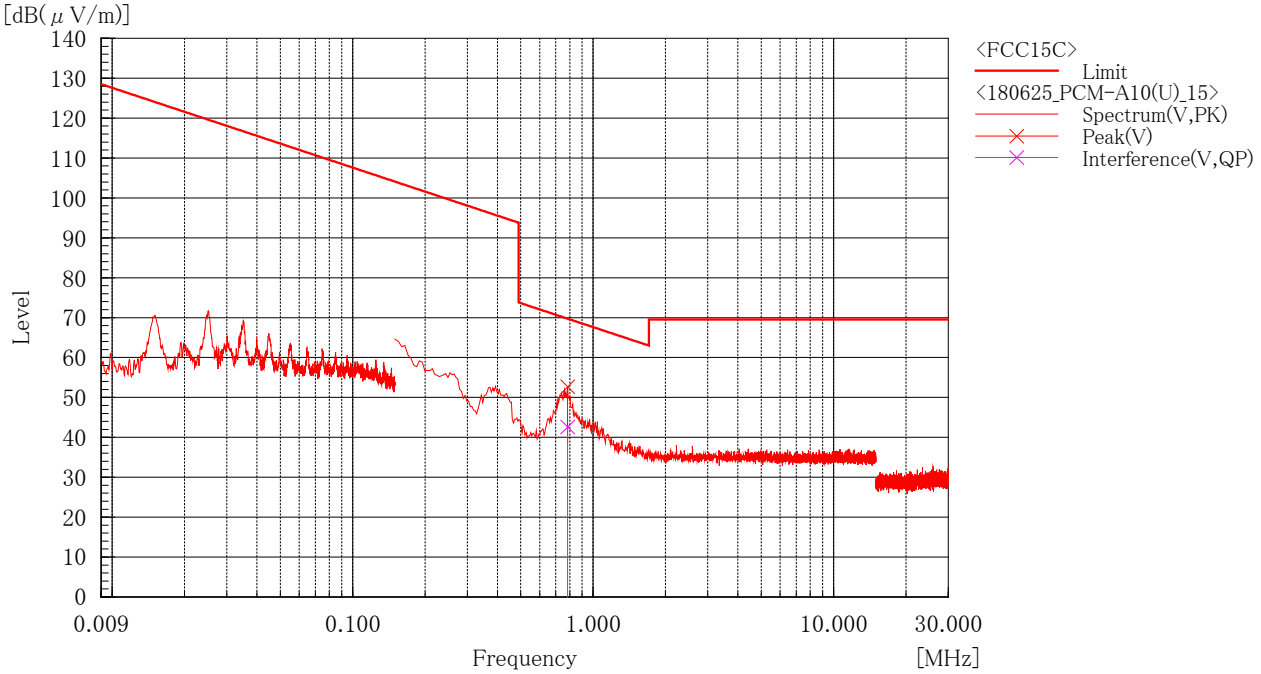
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.779 | 24.5 | 19.5 | 44.0 | 69.8 | 25.8 | 150.0 | 188.6 |

[EDR( 3DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C_15.209 (3m) |
| Serial | : 0314002 | Remark1 | : 0° |
| Operator | : Y.KAMIKO | Remark2 | : Y |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 68% | Remark4 | : Low |




Final Result

--- Vertical Polarization (QP)---

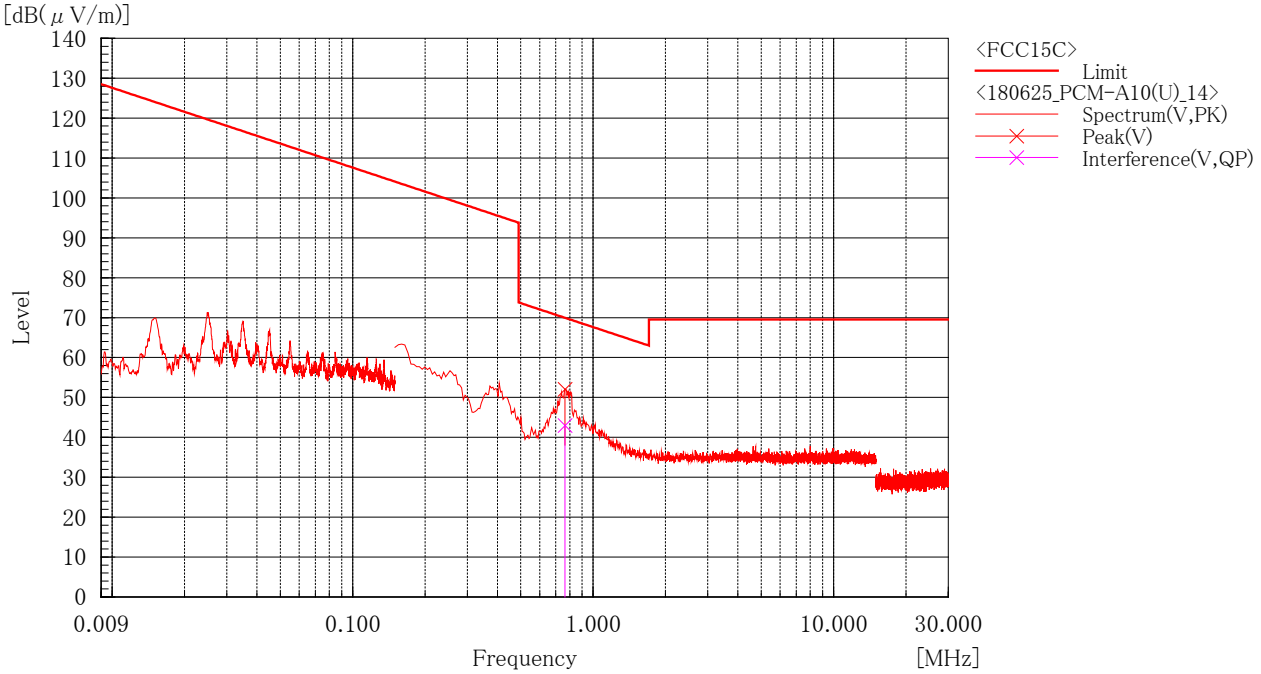
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.784 | 23.2 | 19.5 | 42.7 | 69.7 | 27.0 | 150.0 | 226.7 |

[EDR( 3DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C_15.209 (3m) |
| Serial | : 0314002 | Remark1 | : 0° |
| Operator | : Y.KAMIKO | Remark2 | : Y |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 68% | Remark4 | : Mid |




Final Result

--- Vertical Polarization (QP)---

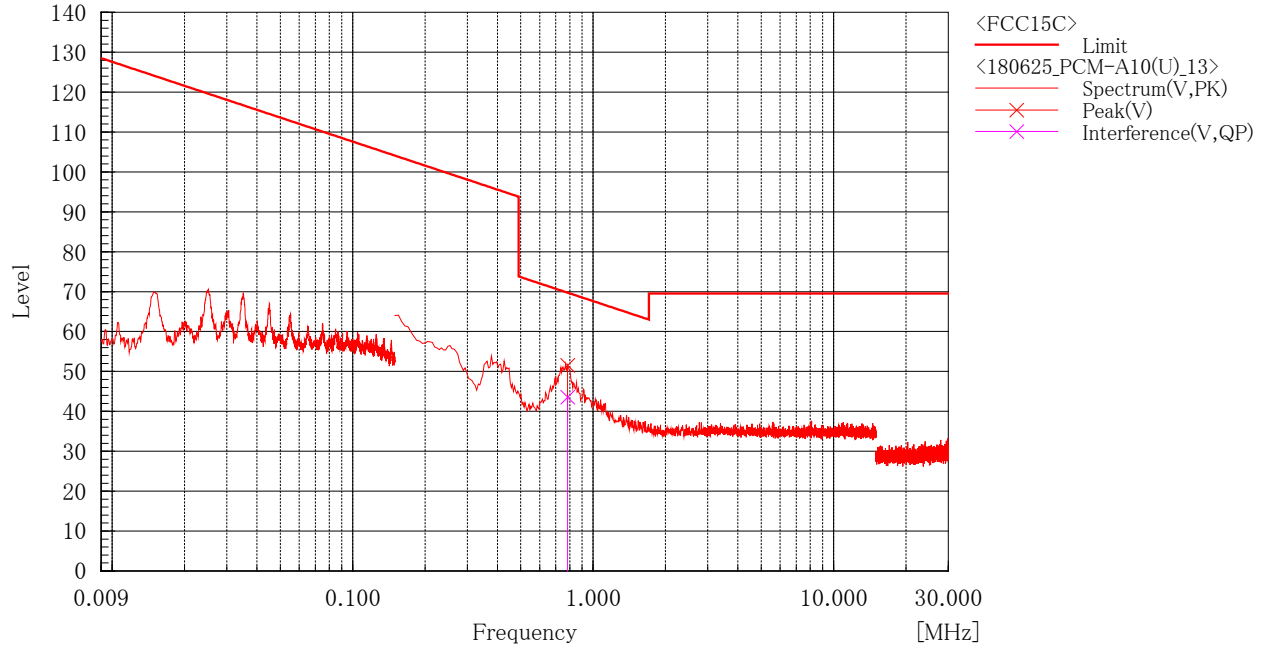
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 0.764 | 23.5 | 19.5 | 43.0 | 70.0 | 27.0 | 150.0 | 359.5 |

[EDR( 3DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C_15.209 (3m) |
| Serial | : 0314002 | Remark1 | : 0° |
| Operator | : Y.KAMIKO | Remark2 | : Y |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 68% | Remark4 | : High |




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 | 0.784 | 24.0 | 19.5 | 43.5 | 69.7 | 26.2 | 150.0 | 80.6 |

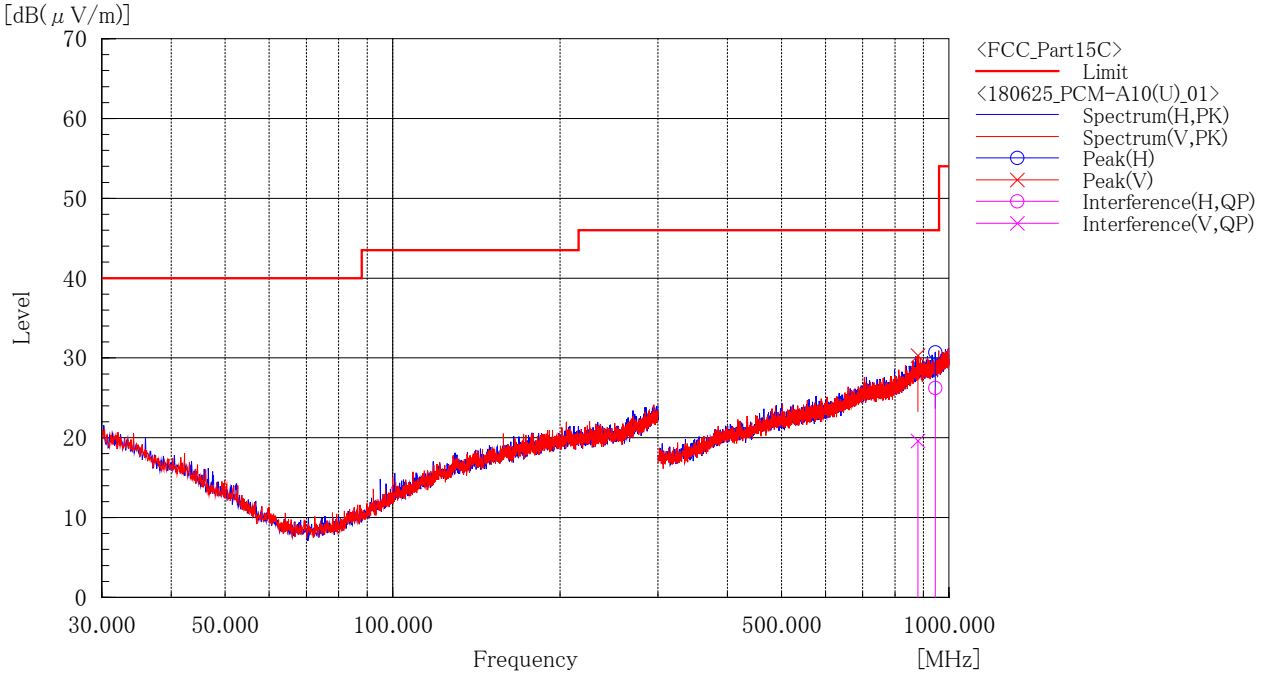
## 30 MHz - 1000 MHz

[BDR( DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 23deg / 68% | Remark4 | : Low |




Final Result

--- Horizontal 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 | 945.167 | 25.1 | 1.1 | 26.2 | 46.0 | 19.8 | 143.6 | 311.0 |

--- Vertical Polarization (QP)---

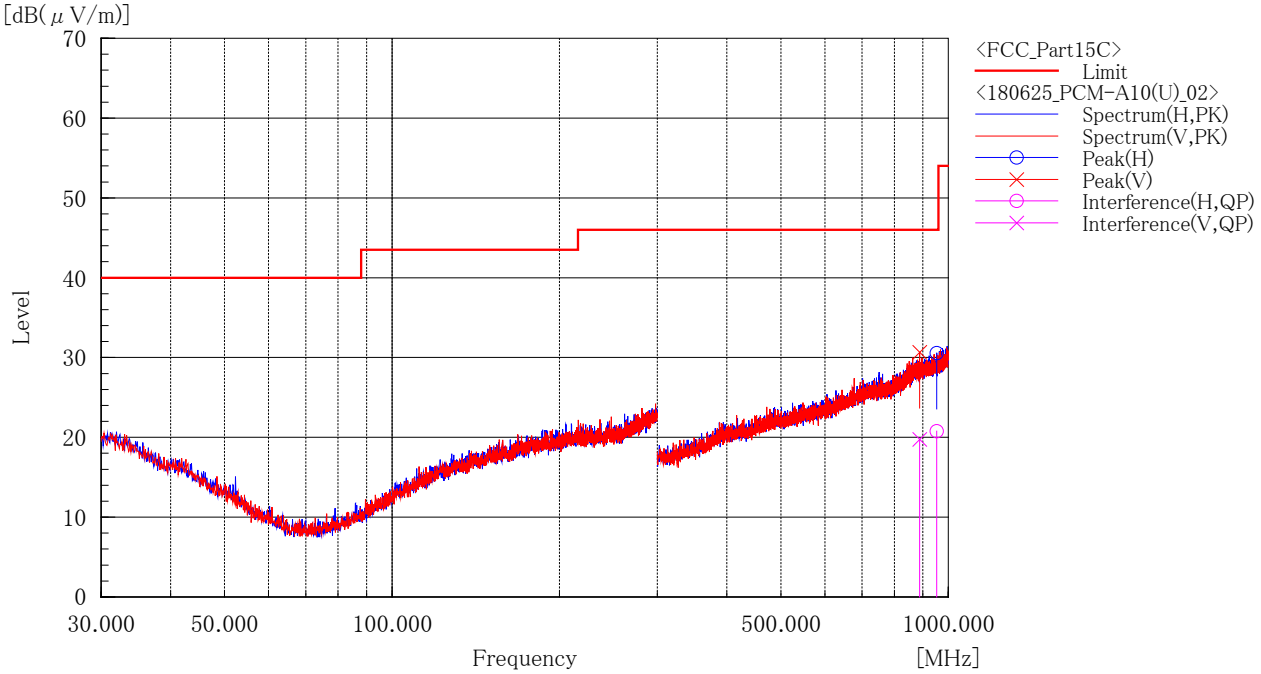
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 879.833 | 19.5 | 0.1 | 19.6 | 46.0 | 26.4 | 313.6 | 113.7 |

[BDR( DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 23deg / 68% | Remark4 | : Mid |




Final Result

--- Horizontal 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 | 953.100 | 19.5 | 1.3 | 20.8 | 46.0 | 25.2 | 100.0 | 123.5 |

--- Vertical Polarization (QP)---

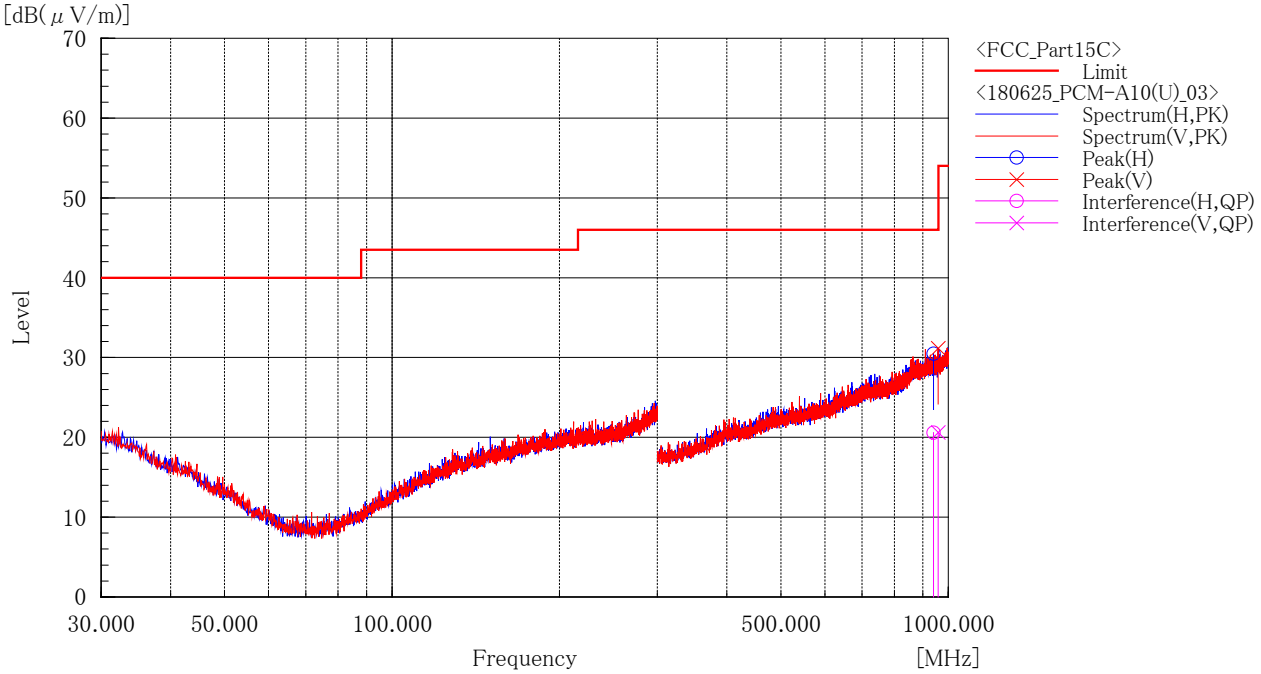
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 887.767 | 19.5 | 0.3 | 19.8 | 46.0 | 26.2 | 154.9 | 277.8 |

[BDR( DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 23deg / 68% | Remark4 | : High |




Final Result

--- Horizontal 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 | 941.200 | 19.5 | 1.1 | 20.6 | 46.0 | 25.4 | 261.6 | 59.5 |

--- Vertical Polarization (QP)---

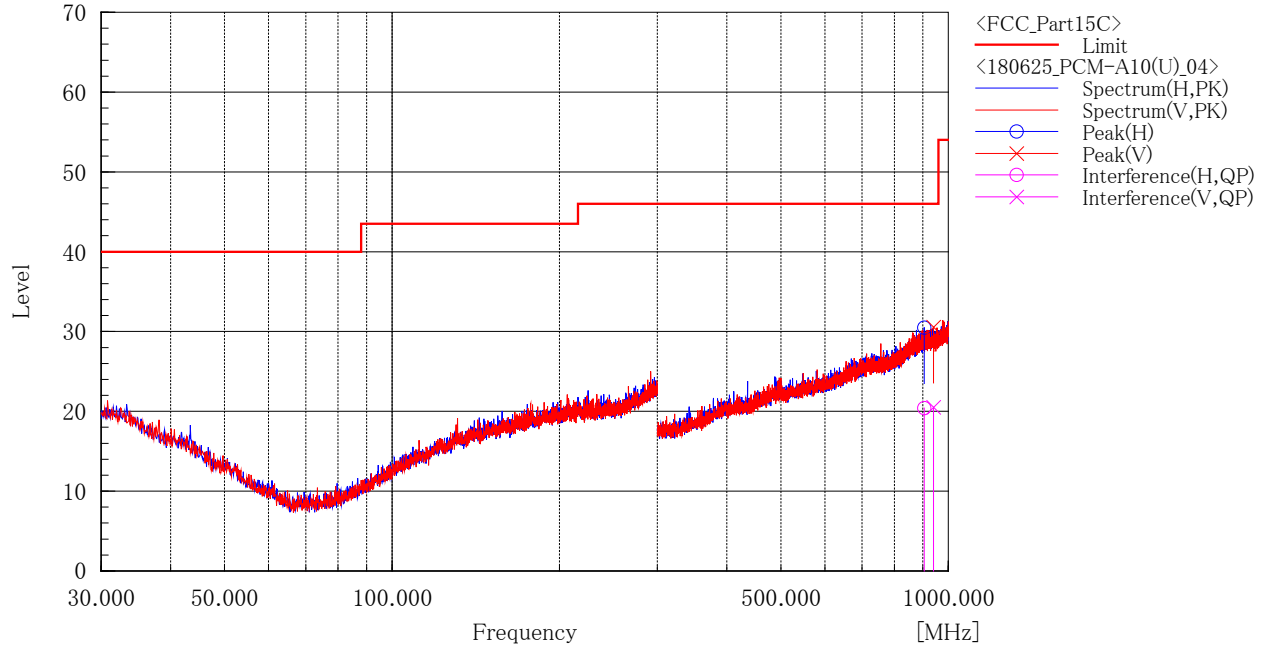
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 958.467 | 19.2 | 1.4 | 20.6 | 46.0 | 25.4 | 106.5 | 334.1 |

[EDR( 3DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 23deg / 68% | Remark4 | : Low |




Final Result

--- Horizontal 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 | 905.033 | 19.9 | 0.5 | 20.4 | 46.0 | 25.6 | 100.0 | 244.0 |

--- Vertical Polarization (QP)---

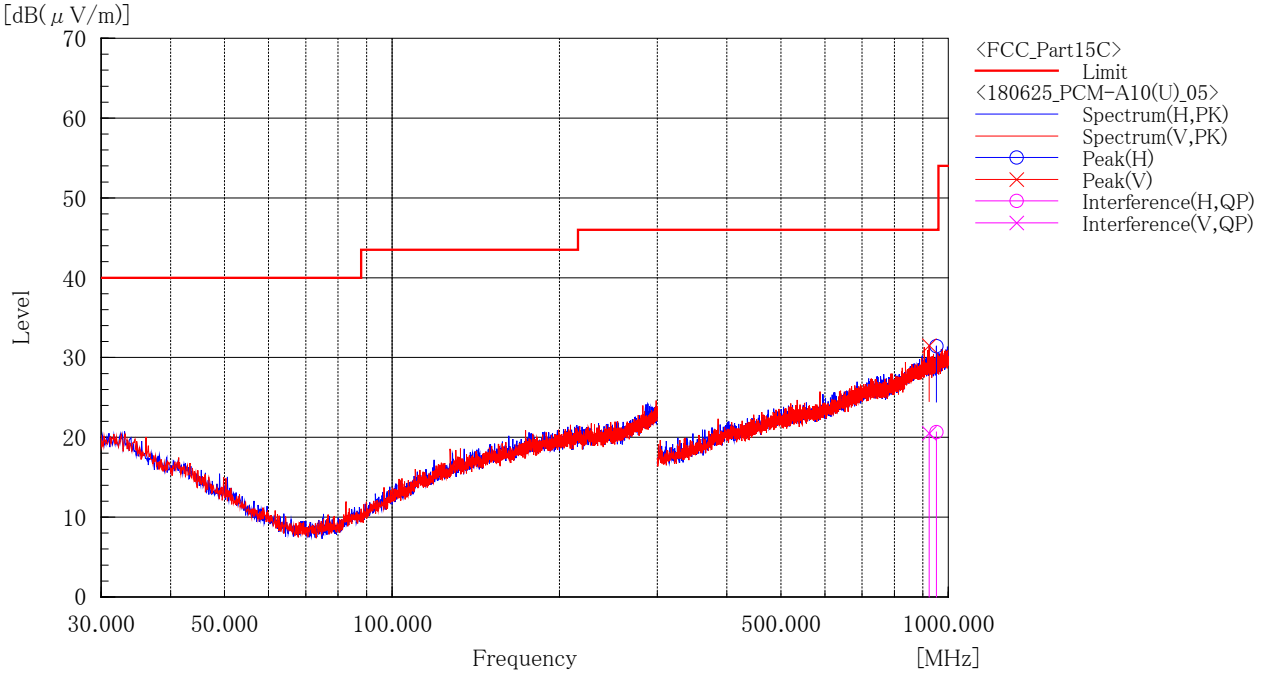
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 940.733 | 19.4 | 1.1 | 20.5 | 46.0 | 25.5 | 181.4 | 78.9 |

[EDR( 3DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 23deg / 68% | Remark4 | : Mid |




Final Result

--- Horizontal 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 | 951.933 | 19.5 | 1.2 | 20.7 | 46.0 | 25.3 | 220.2 | 203.8 |

--- Vertical Polarization (QP)---

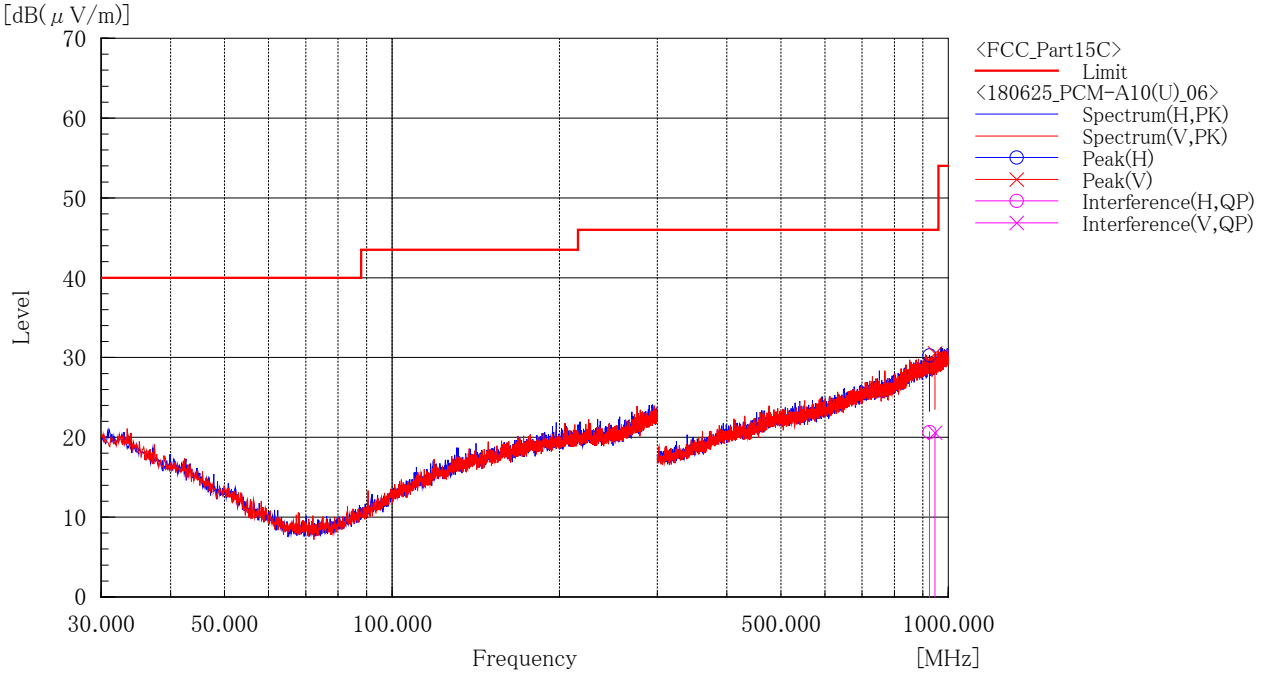
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 923.933 | 19.7 | 0.8 | 20.5 | 46.0 | 25.5 | 131.4 | 309.0 |

[EDR( 3DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 23deg / 68% | Remark4 | : High |




Final Result

--- Horizontal 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 | 924.633 | 19.9 | 0.8 | 20.7 | 46.0 | 25.3 | 254.6 | 206.9 |

--- 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 | 946.333 | 19.5 | 1.1 | 20.6 | 46.0 | 25.4 | 367.8 | 334.8 |

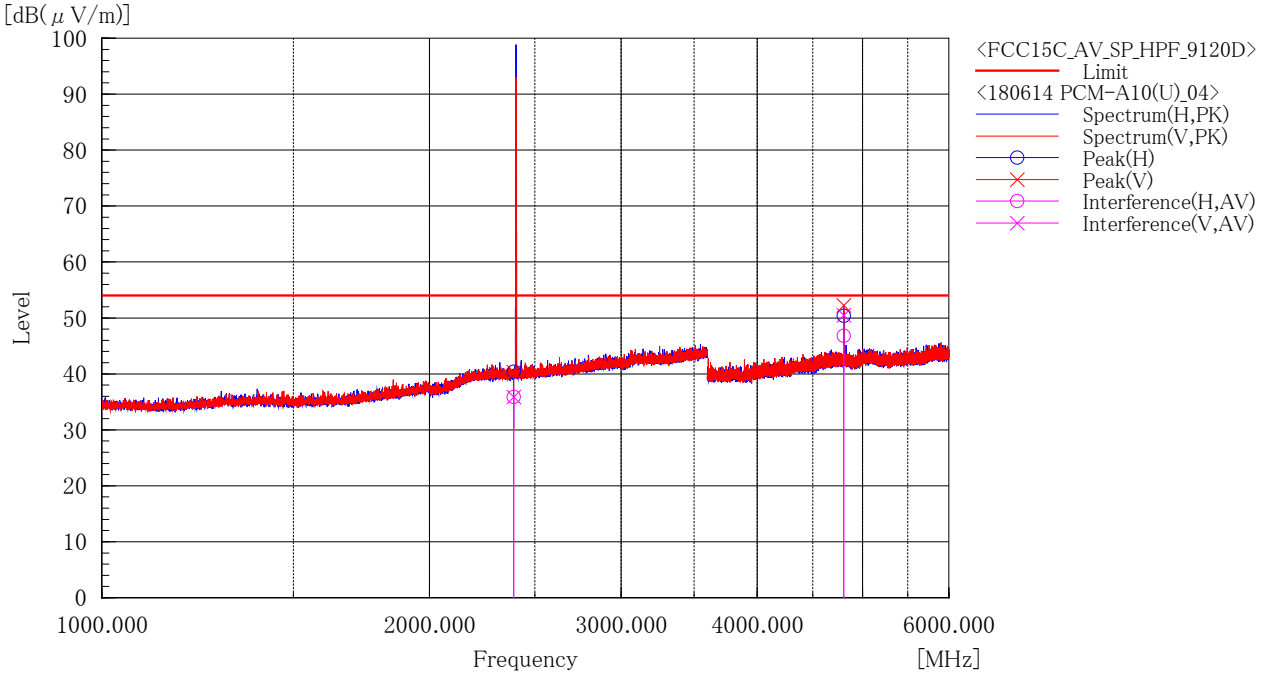
## 1GHz - 6 GHz

[BDR( DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu TEC No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 23deg / 66% | Remark4 | : Low |




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 | 34.4 | 1.5 | 35.9 | 54.0 | 18.1 | 185.0 | 202.3 |
| 2 | 4803.978 | 35.8 | 11.0 | 46.8 | 54.0 | 7.2 | 357.0 | 206.3 |

--- Vertical Polarization (AV)---

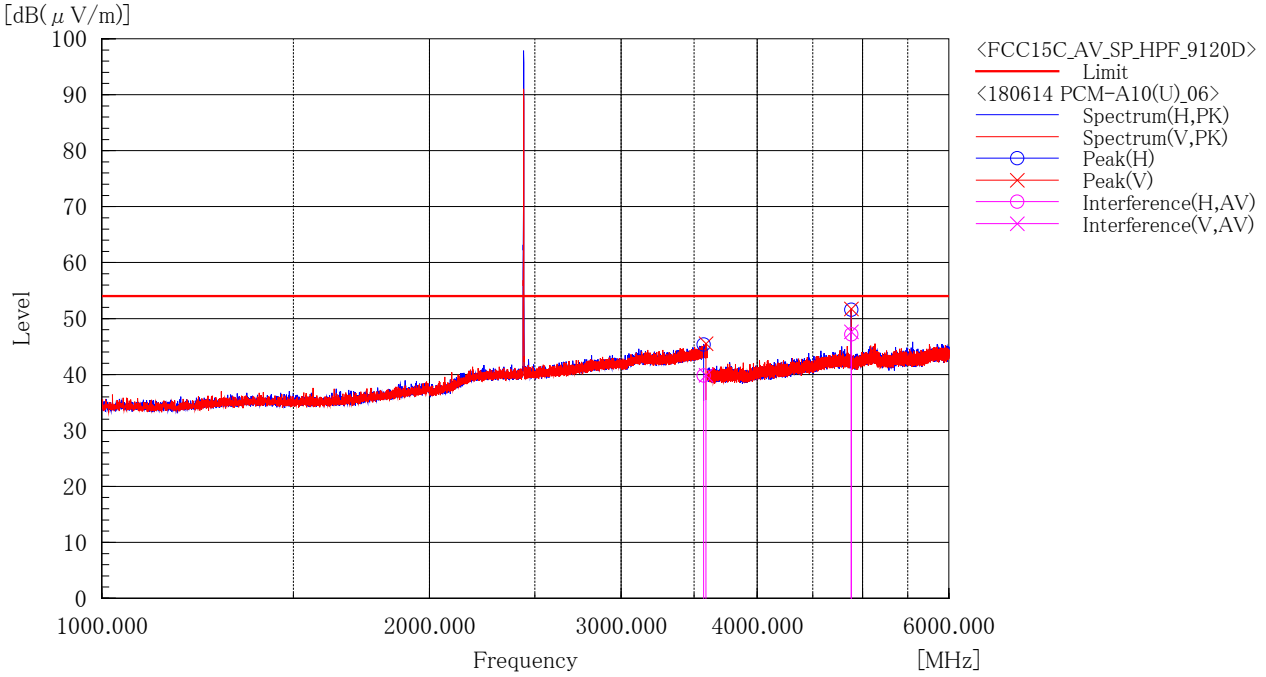
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 34.4 | 1.5 | 35.9 | 54.0 | 18.1 | 371.7 | 60.0 |
| 2 | 4803.987 | 39.5 | 11.0 | 50.5 | 54.0 | 3.5 | 343.0 | 325.8 |

[BDR( DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu TEC No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 23deg / 66% | Remark4 | : Mid |




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 | 3572.890 | 34.2 | 5.6 | 39.8 | 54.0 | 14.2 | 293.9 | 299.6 |
| 2 | 4882.018 | 36.5 | 10.7 | 47.2 | 54.0 | 6.8 | 431.0 | 213.9 |

--- Vertical Polarization (AV)---

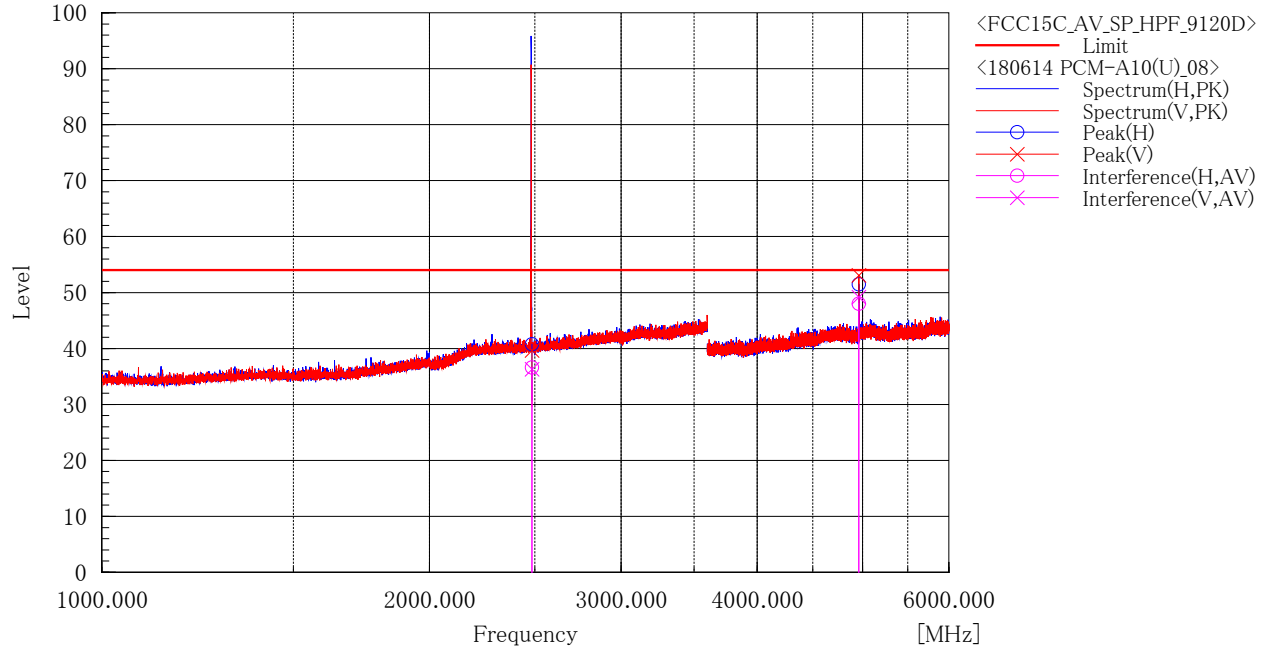
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 3588.511 | 34.2 | 5.7 | 39.9 | 54.0 | 14.1 | 201.6 | 202.5 |
| 2 | 4882.022 | 36.9 | 10.7 | 47.6 | 54.0 | 6.4 | 337.8 | 337.4 |

[BDR( DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu TEC No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 23deg / 66% | Remark4 | : High |




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 | 34.7 | 1.9 | 36.6 | 54.0 | 17.4 | 100.0 | 284.4 |
| 2 | 4959.995 | 37.0 | 11.0 | 48.0 | 54.0 | 6.0 | 381.5 | 218.6 |

--- Vertical Polarization (AV)---

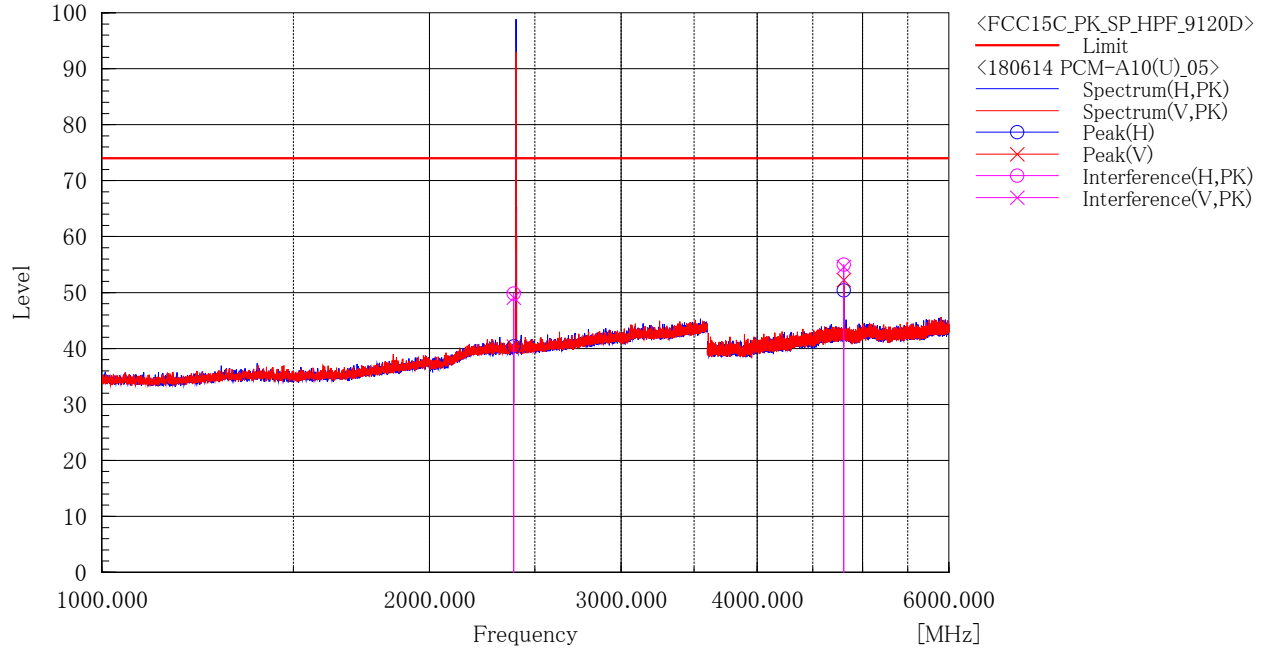
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 34.4 | 1.9 | 36.3 | 54.0 | 17.7 | 293.0 | 257.5 |
| 2 | 4960.005 | 38.2 | 11.0 | 49.2 | 54.0 | 4.8 | 287.0 | 338.1 |

[BDR( DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu TEC No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 23deg / 66% | Remark4 | : Low |




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 | 48.3 | 1.5 | 49.8 | 74.0 | 24.2 | 185.0 | 204.2 |
| 2 | 4804.472 | 44.0 | 11.0 | 55.0 | 74.0 | 19.0 | 366.0 | 217.2 |

--- Vertical Polarization (PK)---

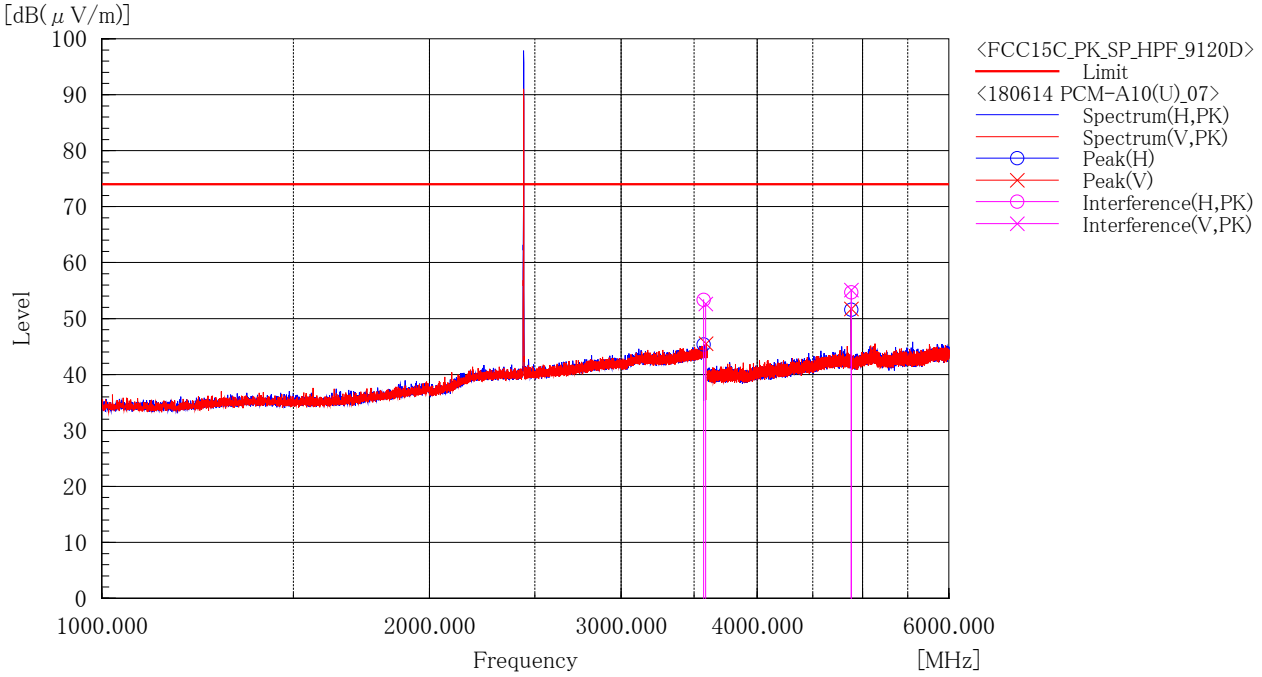
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 47.6 | 1.5 | 49.1 | 74.0 | 24.9 | 377.6 | 60.9 |
| 2 | 4804.432 | 43.6 | 11.0 | 54.6 | 74.0 | 19.4 | 343.7 | 327.5 |

[BDR( DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu TEC No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 23deg / 66% | Remark4 | : Mid |




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 | 3572.580 | 47.7 | 5.6 | 53.3 | 74.0 | 20.7 | 293.9 | 299.6 |
| 2 | 4881.829 | 44.0 | 10.7 | 54.7 | 74.0 | 19.3 | 431.0 | 218.3 |

--- Vertical Polarization (PK)---

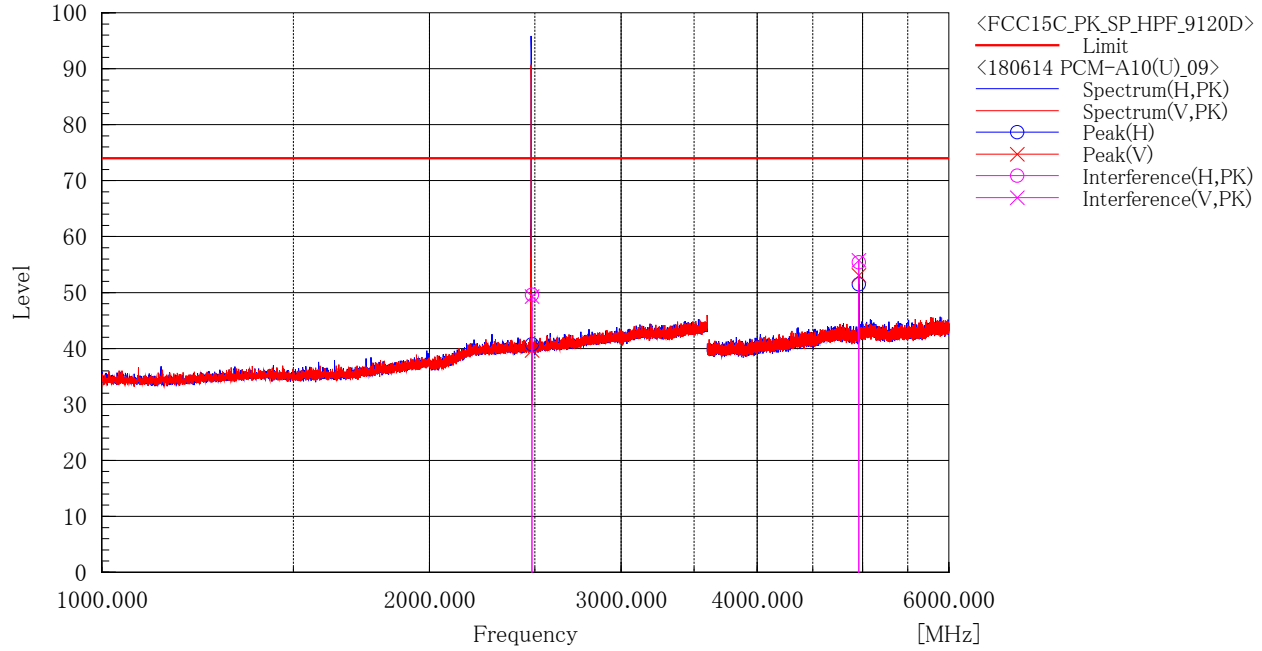
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 3588.249 | 46.9 | 5.7 | 52.6 | 74.0 | 21.4 | 201.6 | 204.4 |
| 2 | 4882.147 | 44.4 | 10.7 | 55.1 | 74.0 | 18.9 | 339.7 | 338.2 |

[BDR( DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu TEC No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 23deg / 66% | Remark4 | : High |




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 | 47.7 | 1.9 | 49.6 | 74.0 | 24.4 | 100.0 | 282.4 |
| 2 | 4959.847 | 44.4 | 11.0 | 55.4 | 74.0 | 18.6 | 381.5 | 218.6 |

--- Vertical Polarization (PK)---

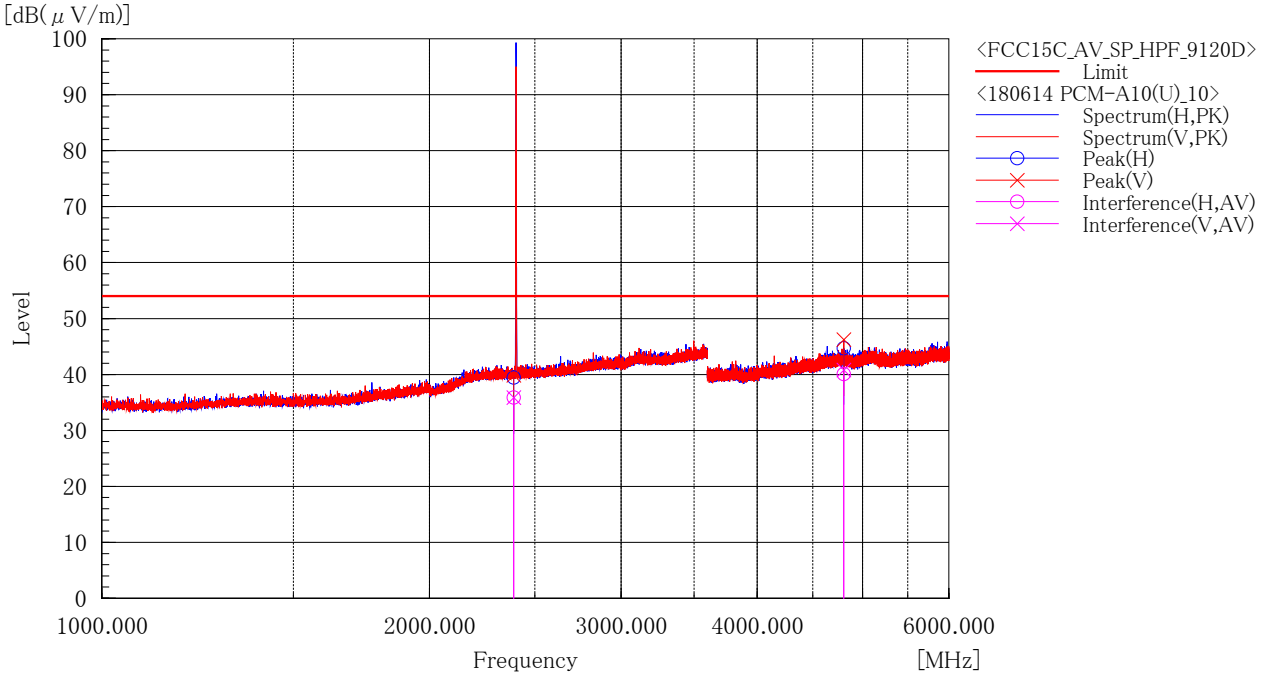
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 47.4 | 1.9 | 49.3 | 74.0 | 24.7 | 298.7 | 259.9 |
| 2 | 4960.236 | 44.8 | 11.0 | 55.8 | 74.0 | 18.2 | 285.0 | 333.1 |

[EDR( 3DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu TEC No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 23deg / 66% | Remark4 | : Low |




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 | 34.4 | 1.5 | 35.9 | 54.0 | 18.1 | 100.3 | 331.3 |
| 2 | 4803.996 | 29.1 | 11.0 | 40.1 | 54.0 | 13.9 | 402.0 | 219.4 |

--- Vertical Polarization (AV)---

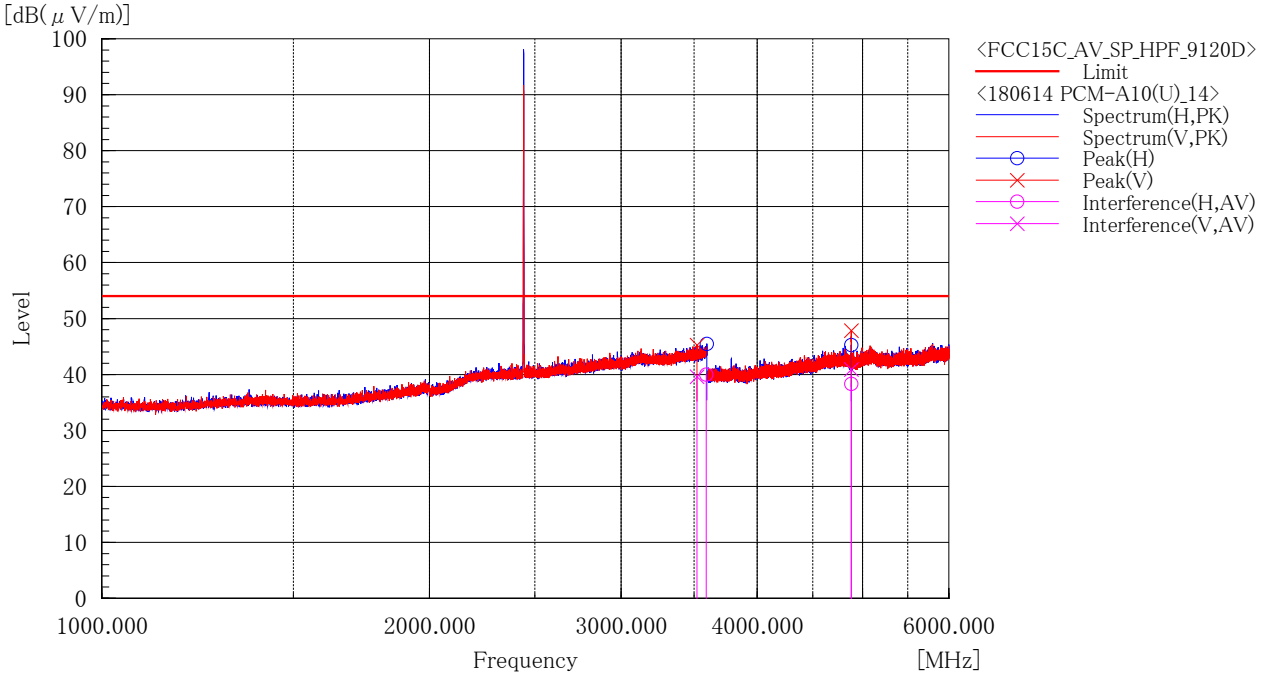
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 34.4 | 1.5 | 35.9 | 54.0 | 18.1 | 149.0 | 165.4 |
| 2 | 4804.045 | 29.8 | 11.0 | 40.8 | 54.0 | 13.2 | 236.0 | 300.9 |

[EDR( 3DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu TEC No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 23deg / 66% | Remark4 | : Mid |




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 | 3592.570 | 34.3 | 5.7 | 40.0 | 54.0 | 14.0 | 268.7 | 174.5 |
| 2 | 4882.009 | 27.6 | 10.7 | 38.3 | 54.0 | 15.7 | 168.0 | 240.5 |

--- Vertical Polarization (AV)---

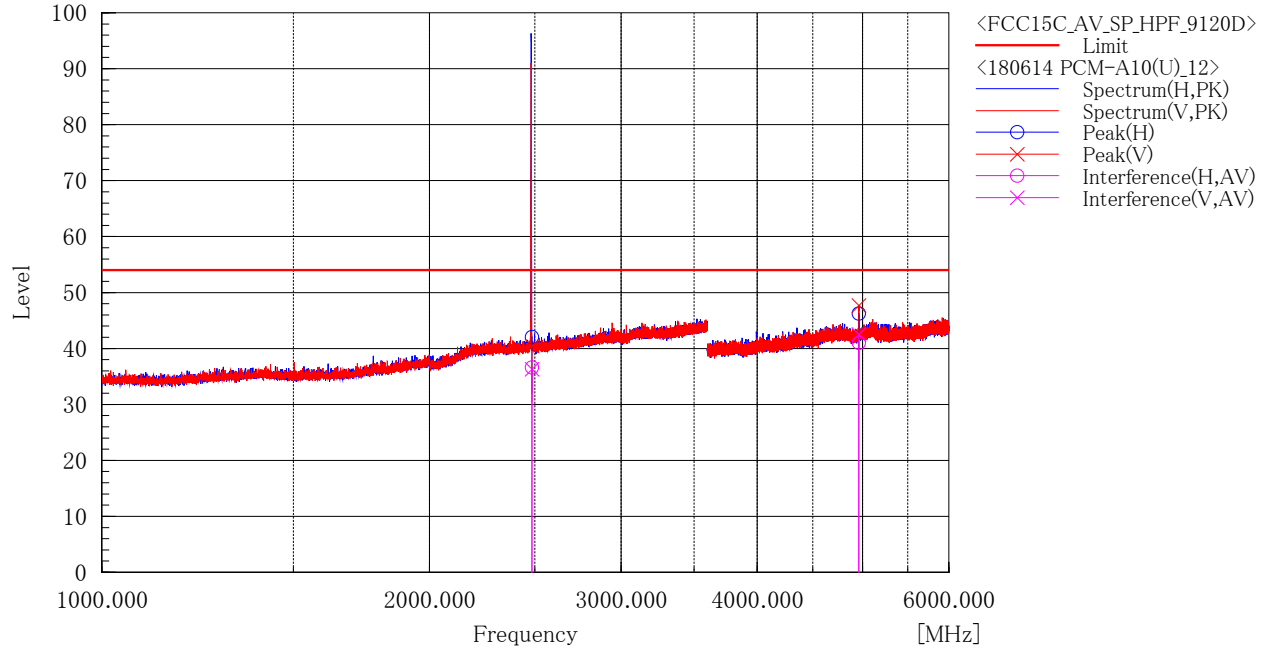
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 3521.436 | 34.3 | 5.3 | 39.6 | 54.0 | 14.4 | 164.0 | 312.7 |
| 2 | 4881.970 | 30.2 | 10.7 | 40.9 | 54.0 | 13.1 | 270.9 | 341.8 |

[EDR( 3DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu TEC No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 23deg / 66% | Remark4 | : High |




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 | 34.7 | 1.9 | 36.6 | 54.0 | 17.4 | 101.0 | 43.8 |
| 2 | 4959.924 | 30.0 | 11.0 | 41.0 | 54.0 | 13.0 | 421.4 | 215.1 |

--- Vertical Polarization (AV)---

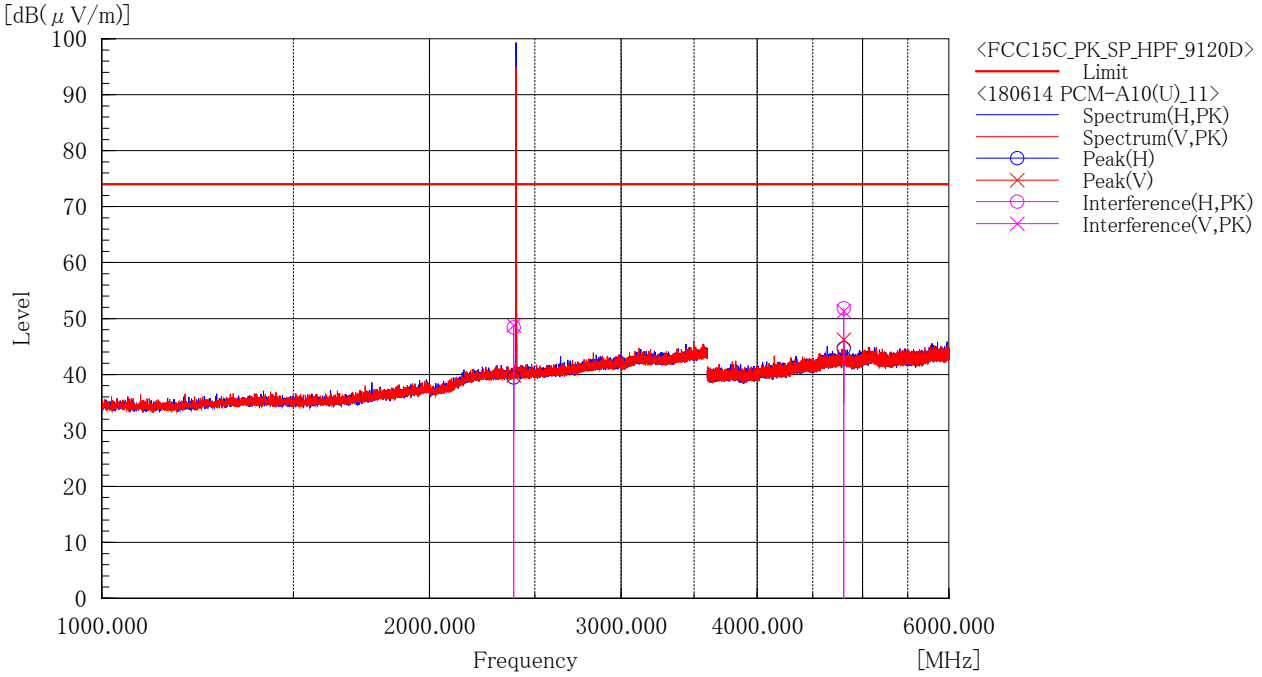
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 2483.500 | 34.4 | 1.9 | 36.3 | 54.0 | 17.7 | 307.6 | 55.7 |
| 2 | 4959.984 | 31.5 | 11.0 | 42.5 | 54.0 | 11.5 | 319.1 | 339.5 |

[EDR( 3DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu TEC No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 23deg / 66% | Remark4 | : Low |




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 | 46.9 | 1.5 | 48.4 | 74.0 | 25.6 | 100.3 | 336.4 |
| 2 | 4804.505 | 40.8 | 11.0 | 51.8 | 74.0 | 22.2 | 402.0 | 219.4 |

--- Vertical Polarization (PK)---

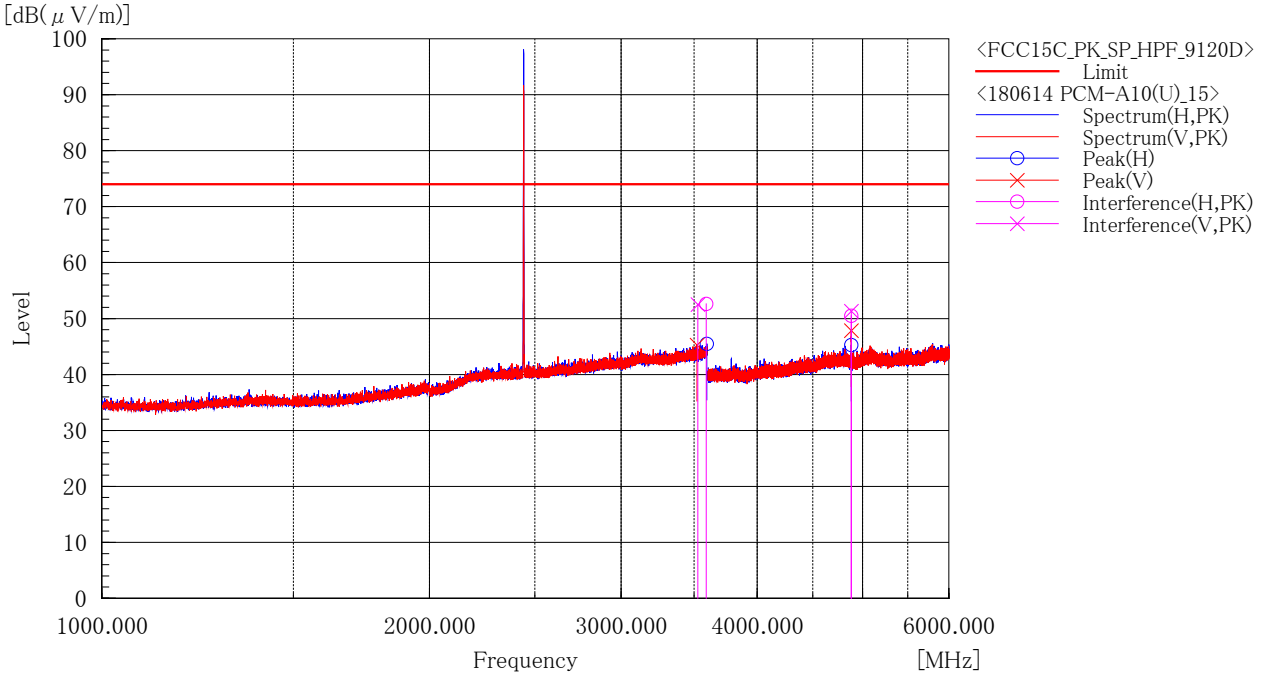
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 2390.000 | 47.3 | 1.5 | 48.8 | 74.0 | 25.2 | 157.3 | 178.5 |
| 2 | 4804.066 | 40.3 | 11.0 | 51.3 | 74.0 | 22.7 | 231.5 | 314.0 |

[EDR( 3DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu TEC No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 23deg / 66% | Remark4 | : Mid |




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 | 3592.550 | 46.9 | 5.7 | 52.6 | 74.0 | 21.4 | 268.7 | 187.5 |
| 2 | 4882.226 | 39.8 | 10.7 | 50.5 | 74.0 | 23.5 | 168.0 | 240.5 |

--- Vertical Polarization (PK)---

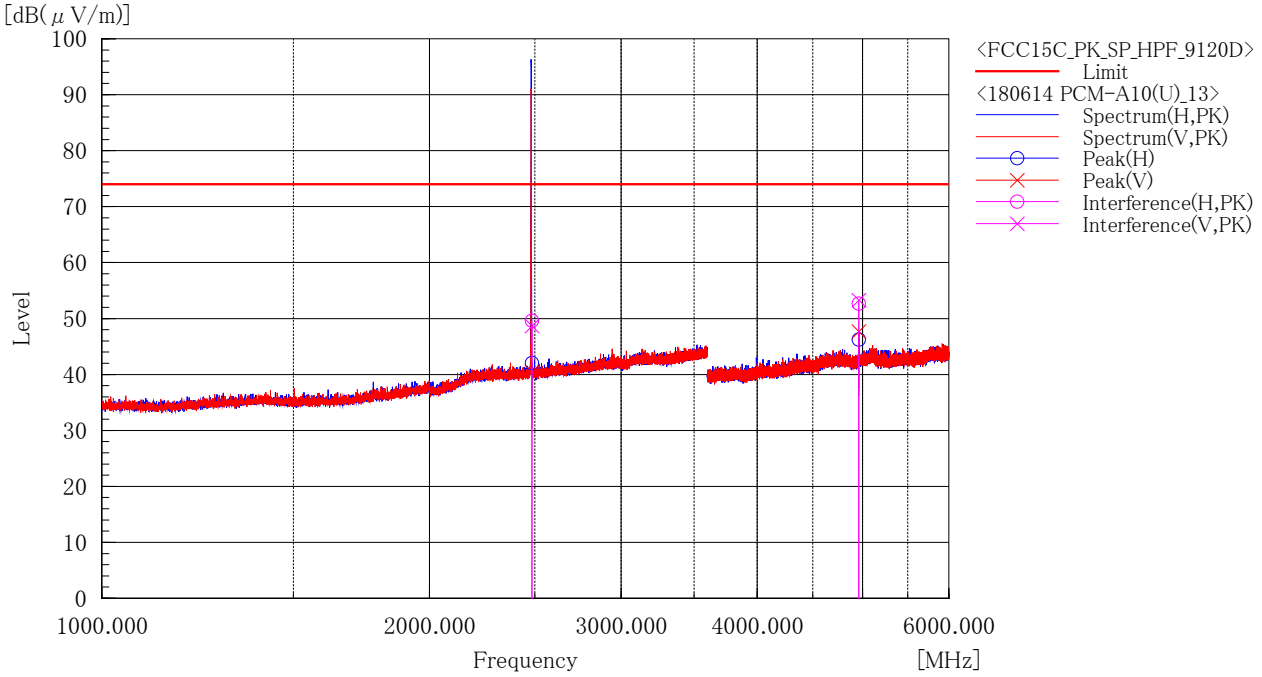
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 3528.433 | 47.1 | 5.4 | 52.5 | 74.0 | 21.5 | 162.1 | 318.2 |
| 2 | 4881.949 | 40.6 | 10.7 | 51.3 | 74.0 | 22.7 | 276.0 | 351.7 |

[EDR( 3DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu TEC No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 23deg / 66% | Remark4 | : High |




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 | 47.7 | 1.9 | 49.6 | 74.0 | 24.4 | 107.0 | 59.4 |
| 2 | 4959.536 | 41.7 | 11.0 | 52.7 | 74.0 | 21.3 | 421.4 | 215.1 |

--- 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 | 46.8 | 1.9 | 48.7 | 74.0 | 25.3 | 311.4 | 66.5 |
| 2 | 4959.515 | 42.3 | 11.0 | 53.3 | 74.0 | 20.7 | 318.0 | 345.5 |

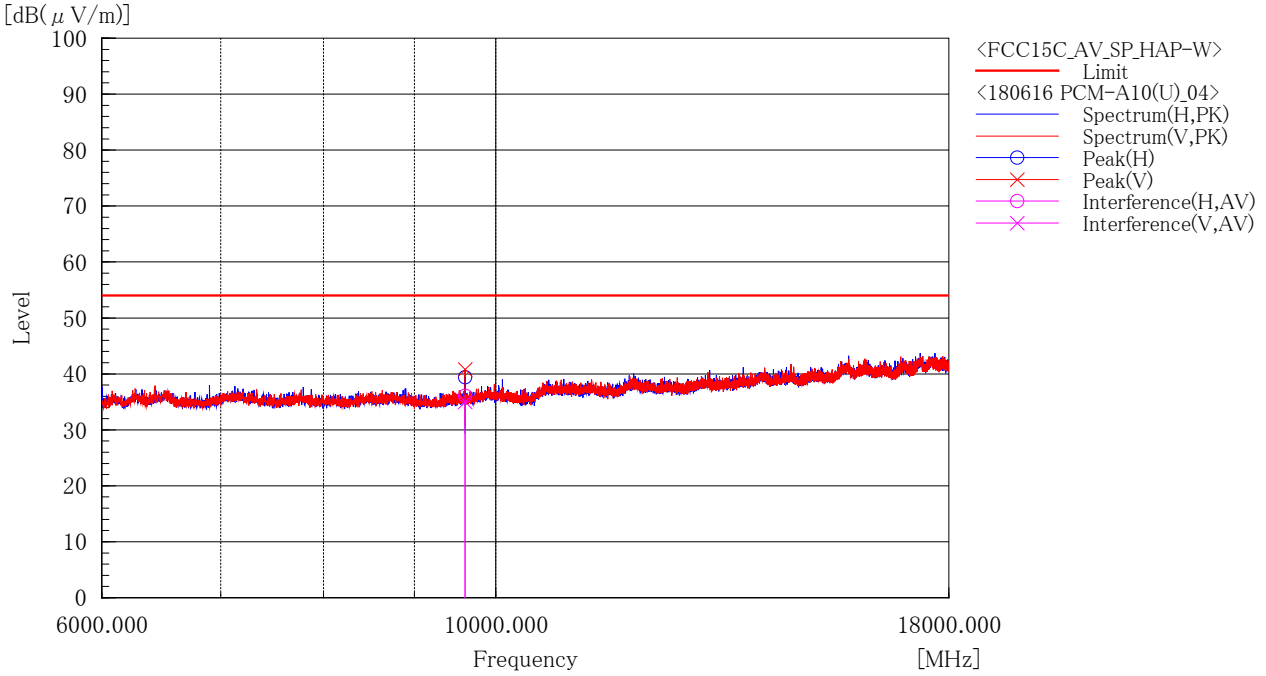
## 6 GHz - 18 GHz

[BDR( DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 22deg / 63% | Remark4 | : Low |




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 | 9609.990 | 42.8 | -6.7 | 36.1 | 54.0 | 17.9 | 100.0 | 268.8 |

--- Vertical Polarization (AV)---

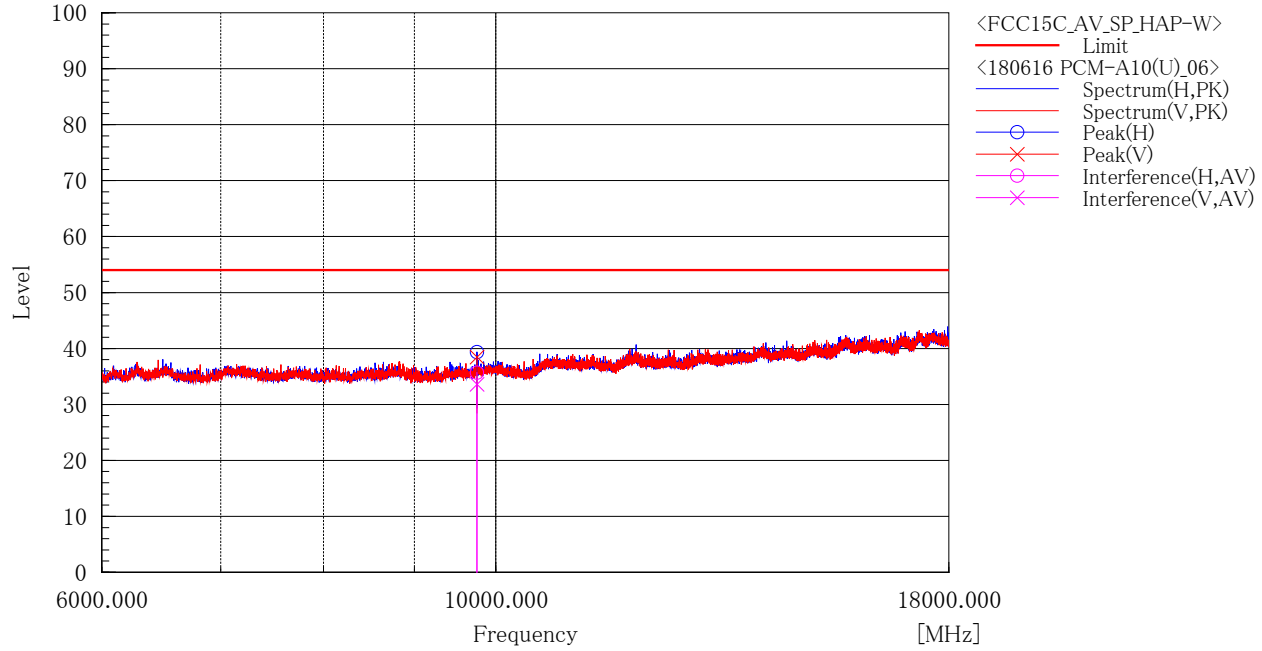
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 9609.953 | 41.7 | -6.7 | 35.0 | 54.0 | 19.0 | 147.0 | 12.9 |

[BDR( DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 22deg / 63% | Remark4 | : Mid |




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 | 9762.001 | 41.8 | -6.1 | 35.7 | 54.0 | 18.3 | 100.0 | 271.5 |

--- Vertical Polarization (AV)---

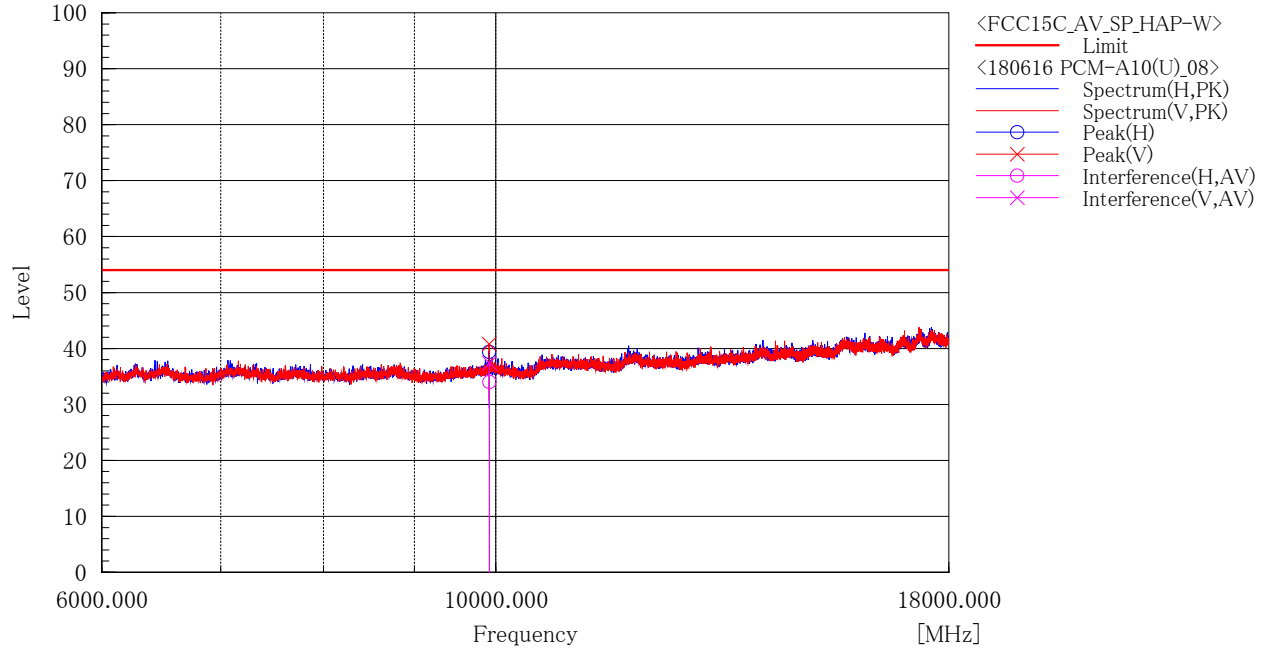
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 9761.967 | 39.7 | -6.1 | 33.6 | 54.0 | 20.4 | 217.0 | 140.2 |

[BDR( DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 22deg / 63% | Remark4 | : High |




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 | 9917.971 | 39.2 | -5.2 | 34.0 | 54.0 | 20.0 | 100.0 | 7.8 |

--- Vertical Polarization (AV)---

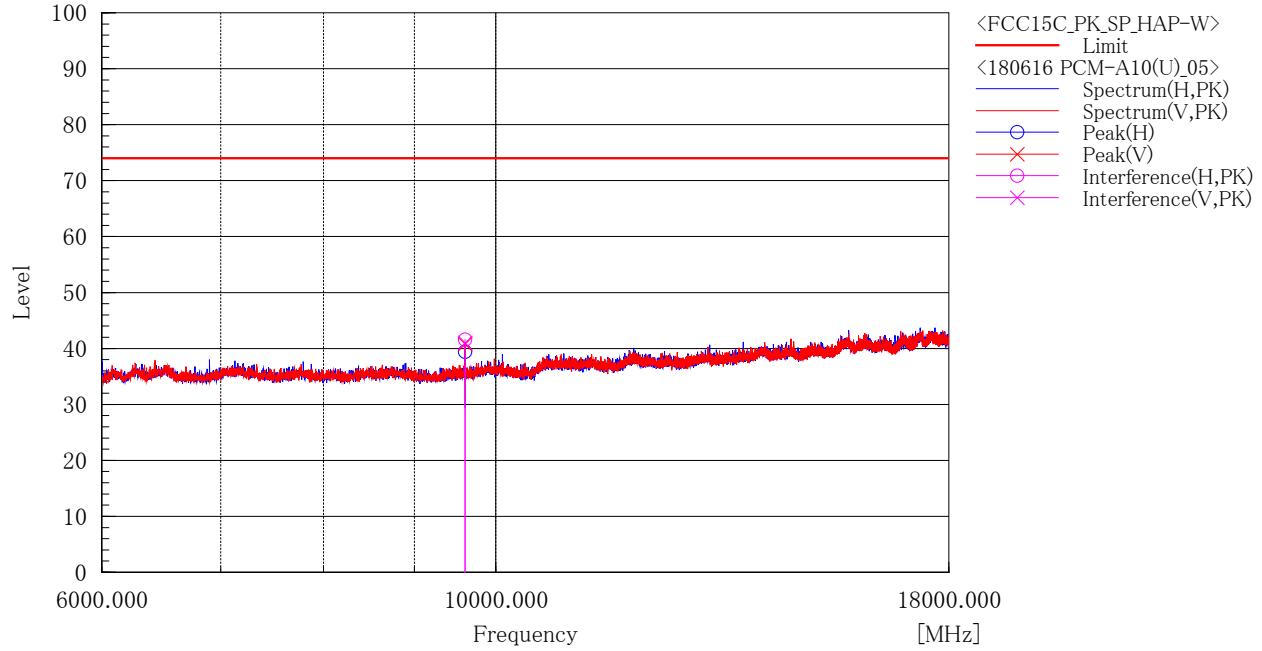
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 9917.990 | 42.6 | -5.2 | 37.4 | 54.0 | 16.6 | 234.0 | 166.7 |

[BDR( DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 22deg / 63% | Remark4 | : Low |




Final Result

--- Horizontal Polarization (PK)---

| No. | Frequency [MHz] | Reading [dBμV] | c.f [dB(1/m)] | Result [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 9610.175 | 48.3 | -6.7 | 41.6 | 74.0 | 32.4 | 101.0 | 273.0 |

--- Vertical Polarization (PK)---

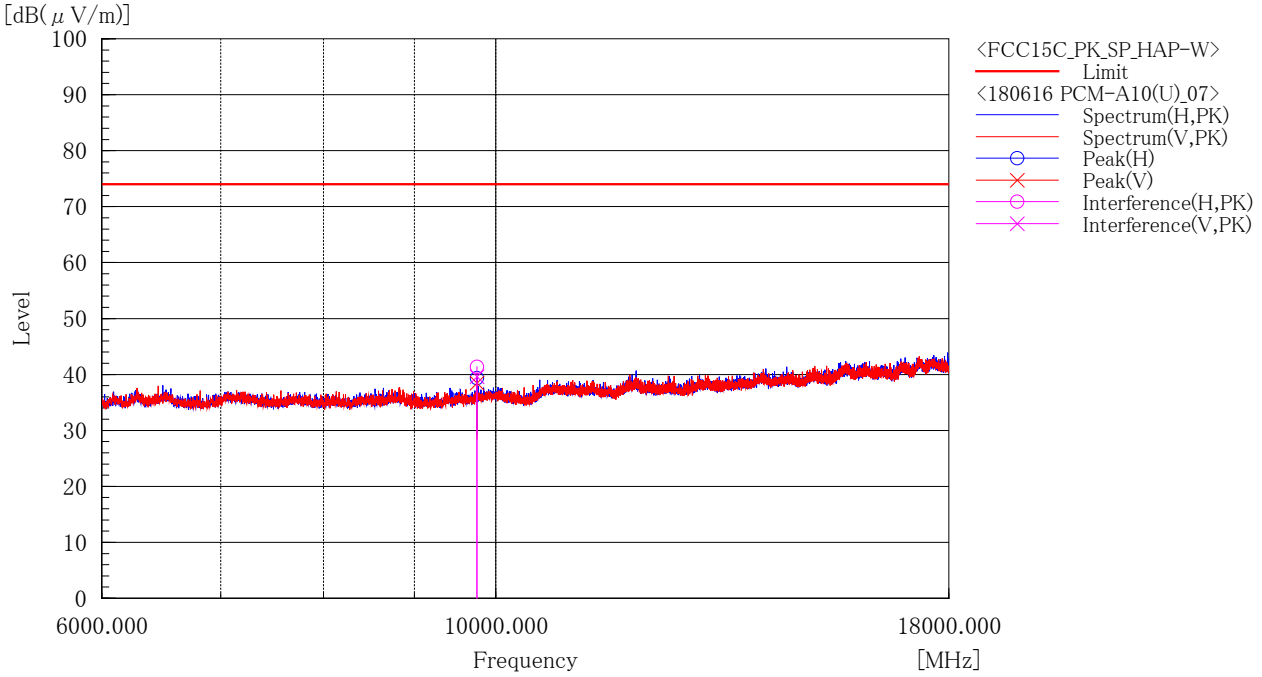
| No. | Frequency [MHz] | Reading [dBμV] | c.f [dB(1/m)] | Result [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 9609.891 | 47.7 | -6.7 | 41.0 | 74.0 | 33.0 | 159.0 | 13.2 |

[BDR( DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 22deg / 63% | Remark4 | : Mid |




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 | 9762.234 | 47.5 | -6.1 | 41.4 | 74.0 | 32.6 | 110.6 | 270.7 |

--- Vertical Polarization (PK)---

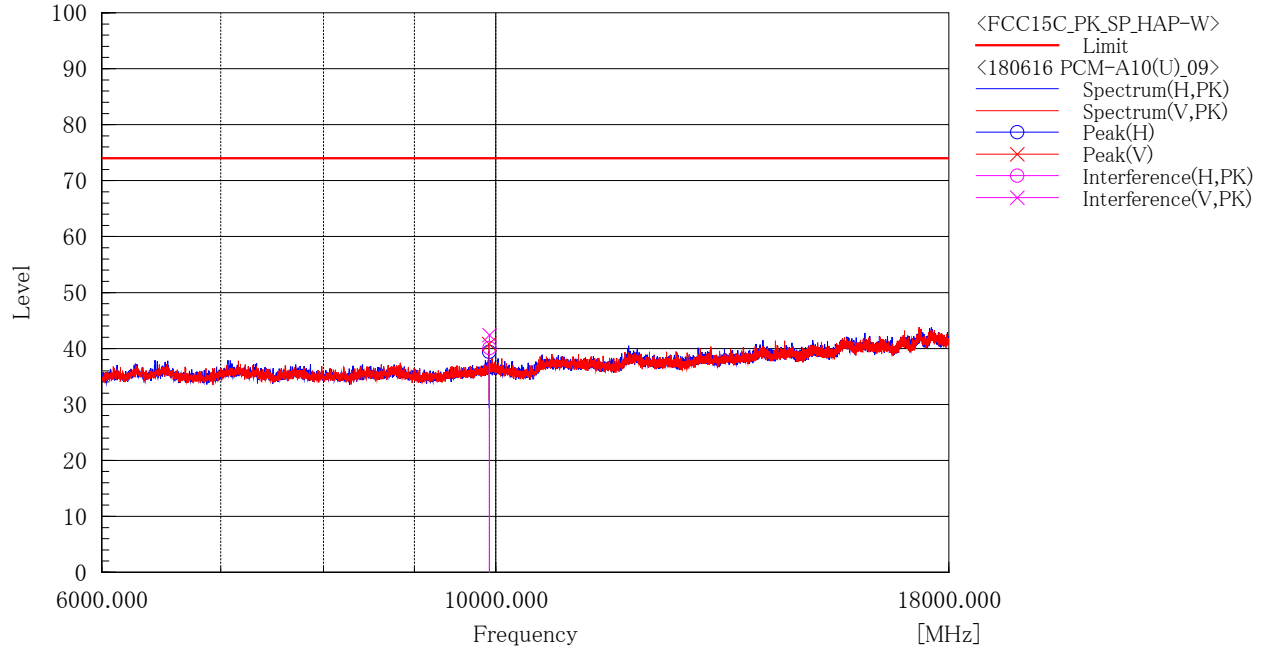
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 9761.962 | 45.7 | -6.1 | 39.6 | 74.0 | 34.4 | 214.0 | 141.4 |

[BDR( DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 22deg / 63% | Remark4 | : High |




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 | 9917.890 | 45.3 | -5.2 | 40.1 | 74.0 | 33.9 | 100.0 | 9.8 |

--- Vertical Polarization (PK)---

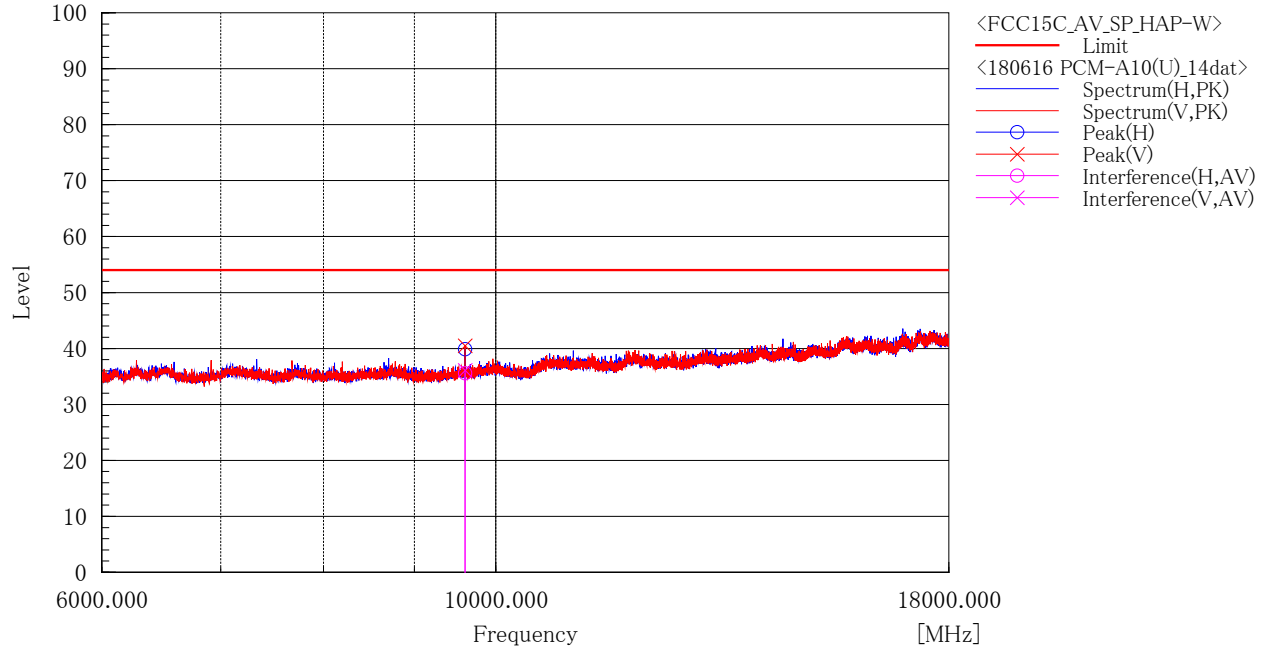
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 9918.197 | 47.6 | -5.2 | 42.4 | 74.0 | 31.6 | 238.0 | 168.0 |

[EDR( 3DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 63% | Remark4 | : Low |




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 | 9610.013 | 42.3 | -6.7 | 35.6 | 54.0 | 18.4 | 103.0 | 269.7 |

--- Vertical Polarization (AV)---

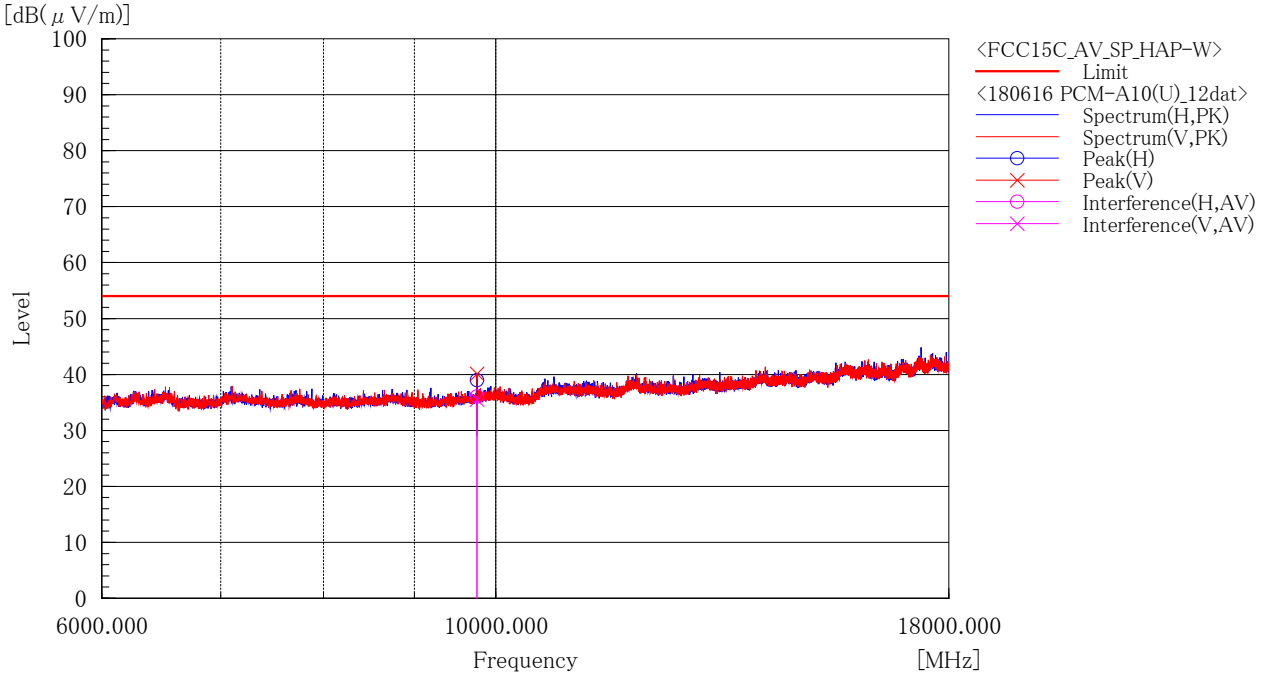
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 9609.971 | 42.8 | -6.7 | 36.1 | 54.0 | 17.9 | 101.1 | 270.5 |

[EDR( 3DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 63% | Remark4 | : Mid |




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 | 9761.997 | 42.2 | -6.1 | 36.1 | 54.0 | 17.9 | 100.0 | 271.2 |

--- Vertical Polarization (AV)---

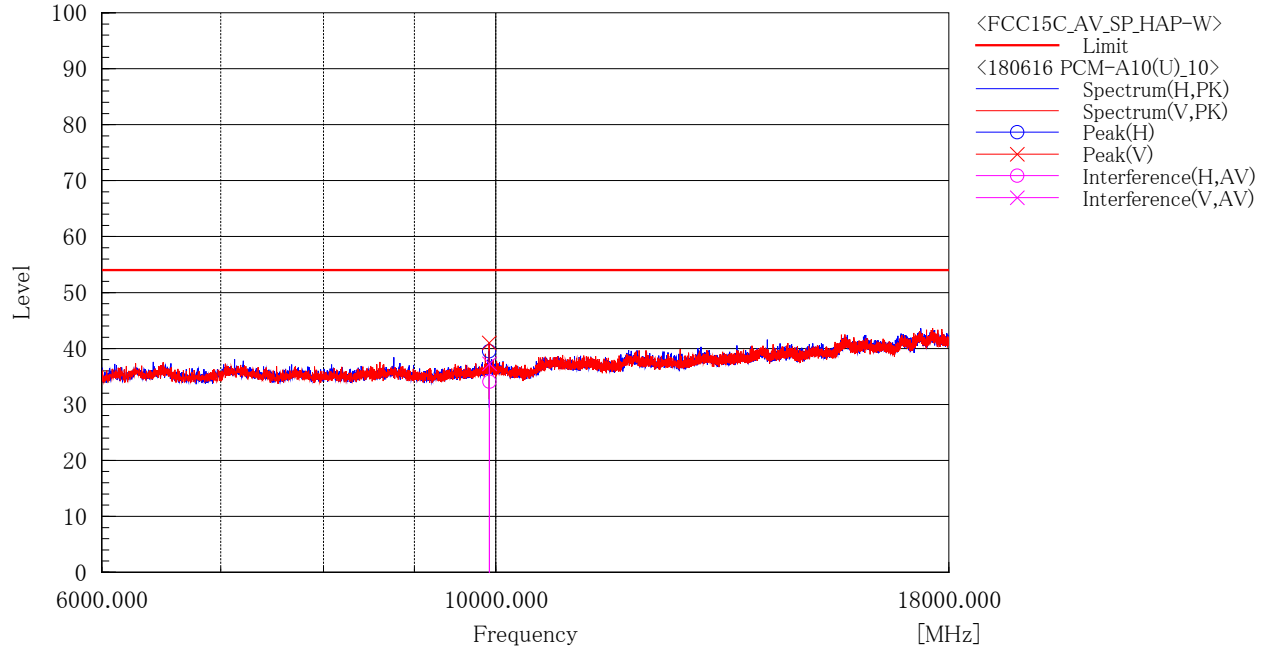
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 9761.949 | 41.6 | -6.1 | 35.5 | 54.0 | 18.5 | 100.0 | 272.2 |

[EDR( 3DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 63% | Remark4 | : High |




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 | 9917.984 | 39.3 | -5.2 | 34.1 | 54.0 | 19.9 | 153.0 | 205.3 |

--- Vertical Polarization (AV)---

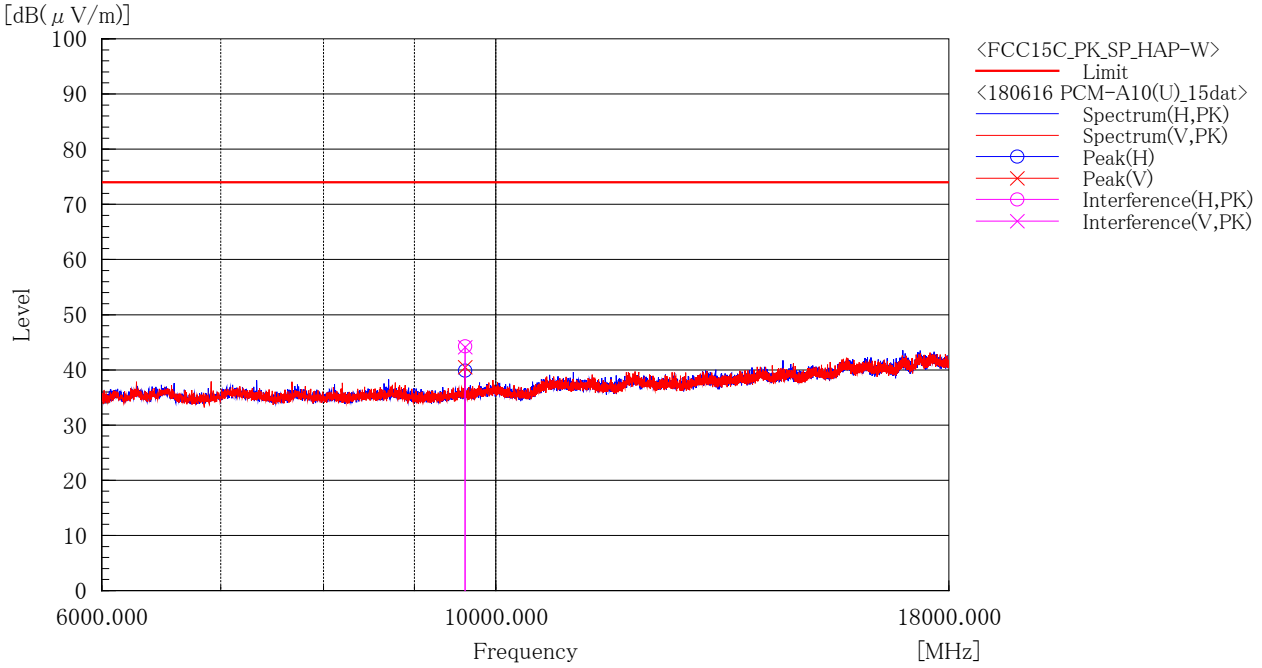
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 9917.994 | 42.5 | -5.2 | 37.3 | 54.0 | 16.7 | 247.7 | 171.4 |

[EDR( 3DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 63% | Remark4 | : Low |




Final Result

--- Horizontal Polarization (PK)---

| No. | Frequency [MHz] | Reading [dBμV] | c.f [dB(1/m)] | Result [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] |
|---|---|---|---|---|---|---|---|---|
| 1 | 9610.385 | 51.0 | -6.7 | 44.3 | 74.0 | 29.7 | 109.6 | 273.7 |

--- Vertical Polarization (PK)---

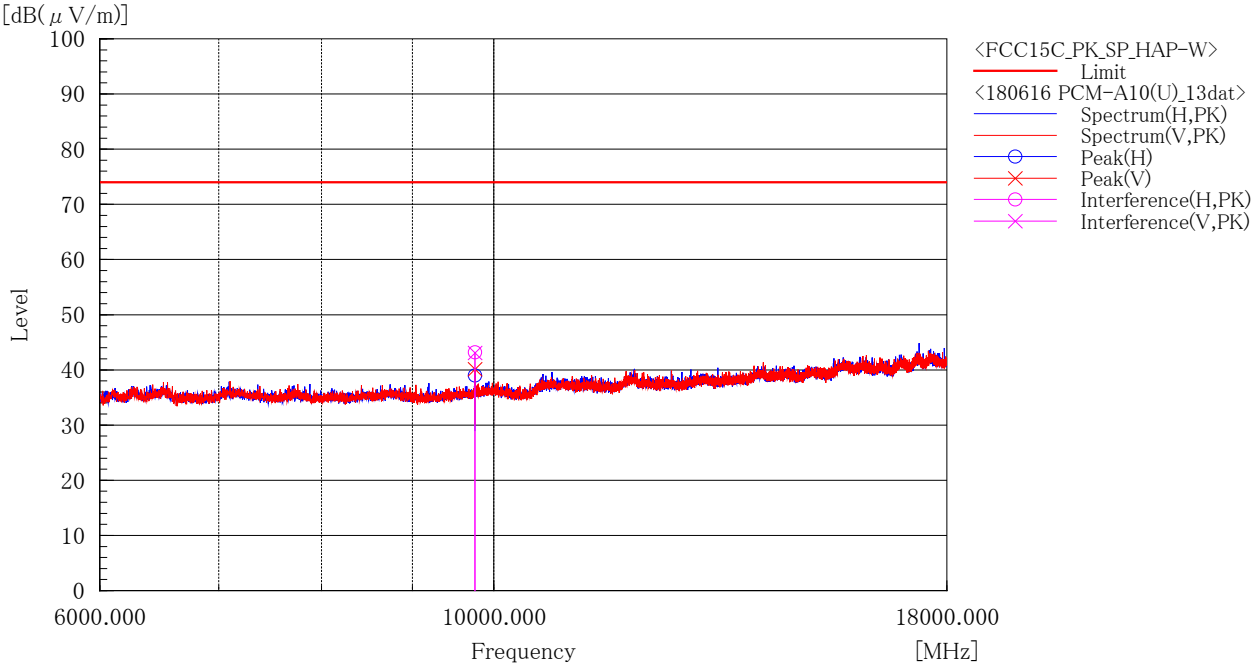
| No. | Frequency [MHz] | Reading [dBμV] | c.f [dB(1/m)] | Result [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] |
|---|---|---|---|---|---|---|---|---|
| 1 | 9610.041 | 50.8 | -6.7 | 44.1 | 74.0 | 29.9 | 103.0 | 275.7 |

[EDR( 3DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 63% | Remark4 | : Mid |




Final Result

--- Horizontal Polarization (PK)---

| No. | Frequency [MHz] | Reading [dBμV] | c.f [dB(1/m)] | Result [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] |
|---|---|---|---|---|---|---|---|---|
| 1 | 9762.166 | 49.3 | -6.1 | 43.2 | 74.0 | 30.8 | 109.0 | 272.3 |

--- Vertical Polarization (PK)---

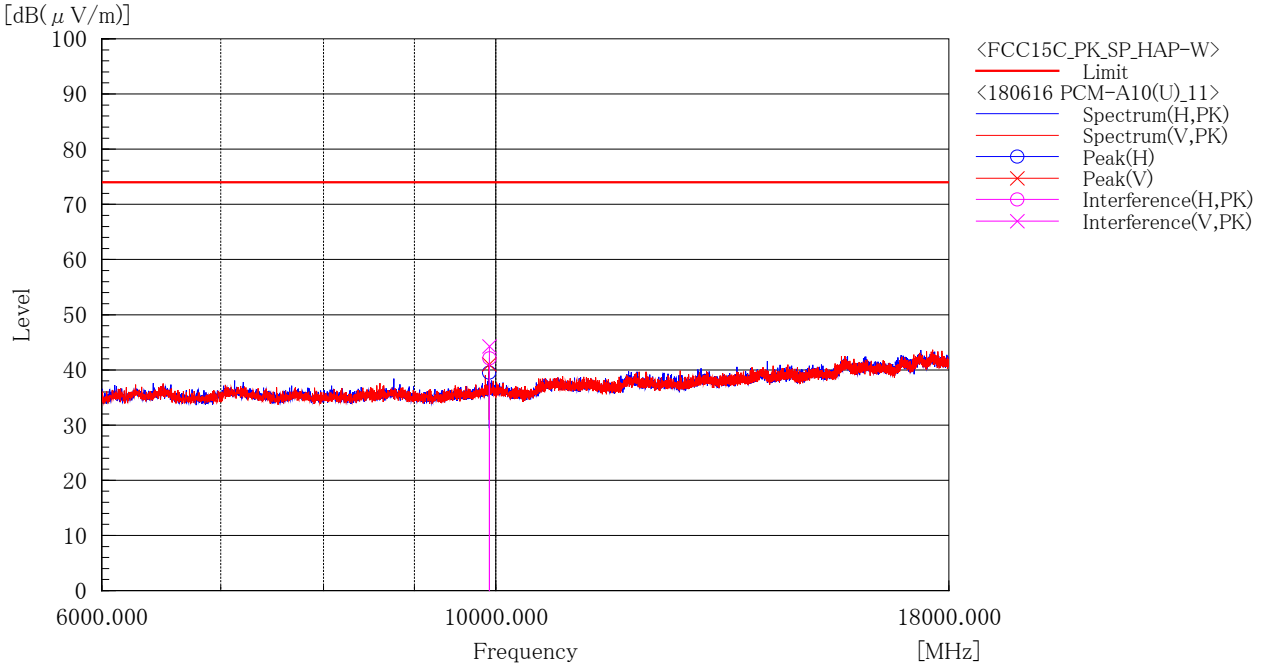
| No. | Frequency [MHz] | Reading [dBμV] | c.f [dB(1/m)] | Result [dBμV/m] | Limit [dBμV/m] | Margin [dB] | Height [cm] | Angle [°] |
|---|---|---|---|---|---|---|---|---|
| 1 | 9762.158 | 49.2 | -6.1 | 43.1 | 74.0 | 30.9 | 189.0 | 11.1 |

[EDR( 3DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.KAMIKO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 63% | Remark4 | : High |




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 | 9917.968 | 47.3 | -5.2 | 42.1 | 74.0 | 31.9 | 152.0 | 210.4 |

--- 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 | 9917.736 | 49.5 | -5.2 | 44.3 | 74.0 | 29.7 | 246.0 | 169.2 |

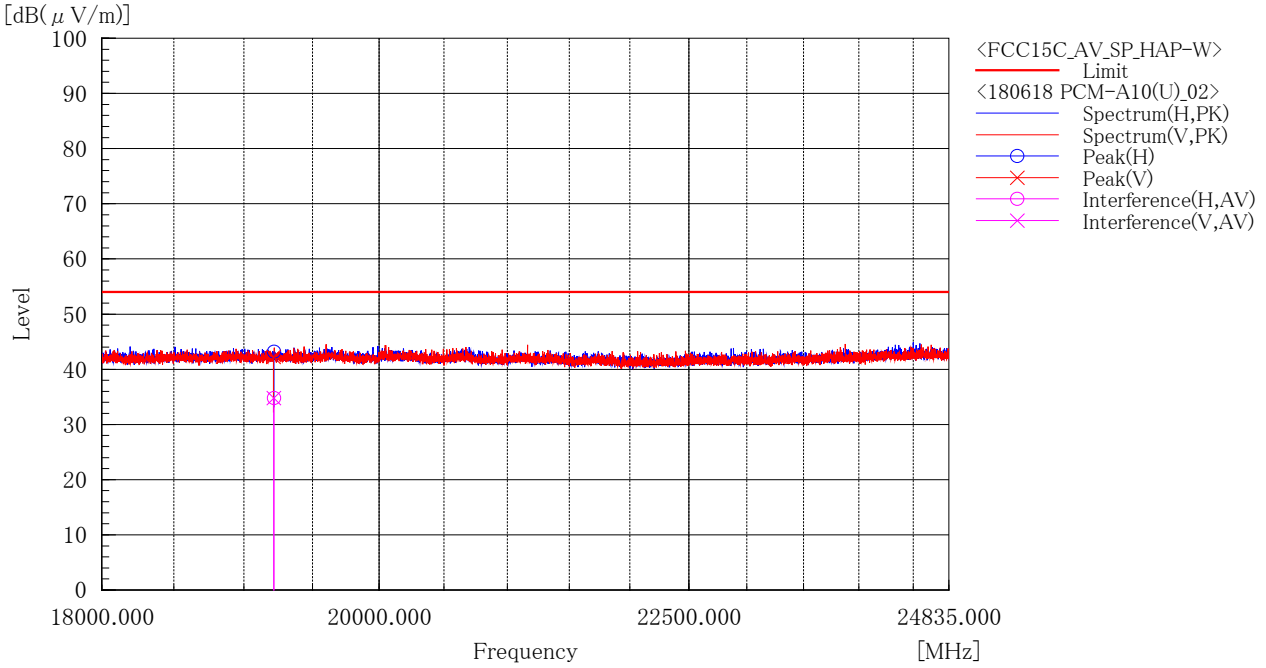
## 18 GHz - 25 GHz

[BDR( DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.MORIMOTO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 22deg / 65% | Remark4 | : Low |




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 | 19217.388 | 29.4 | 5.4 | 34.8 | 54.0 | 19.2 | 131.6 | 215.0 |

--- Vertical Polarization (AV)---

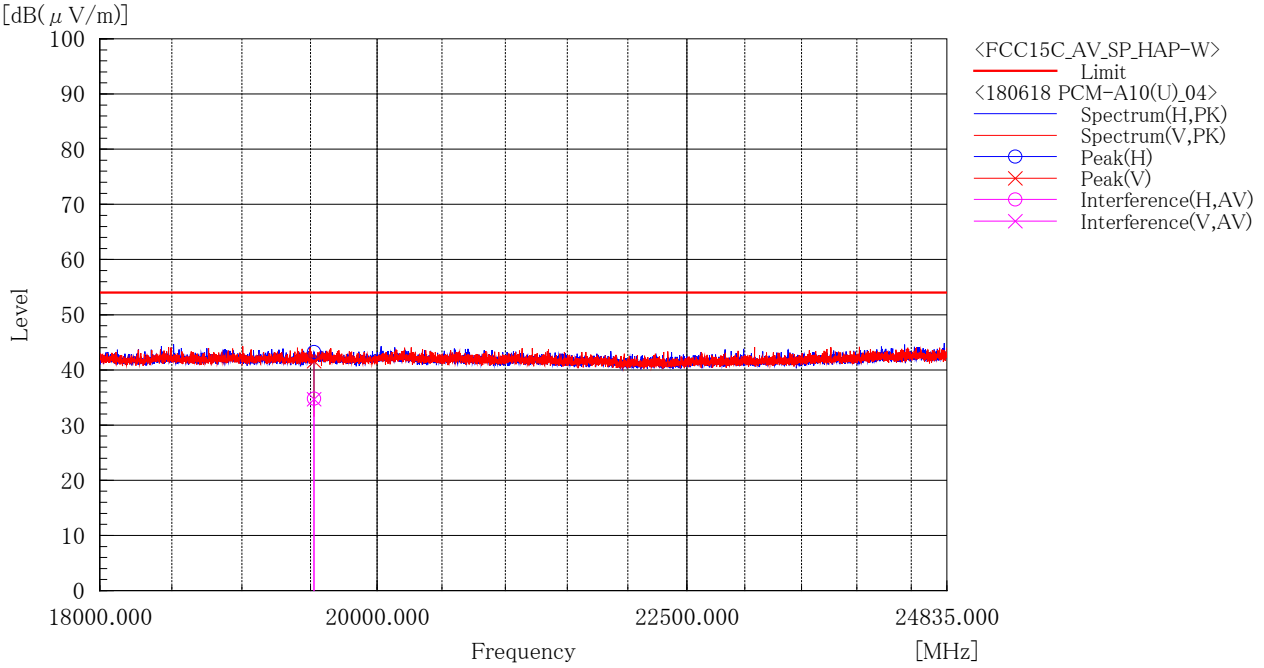
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 19215.492 | 29.4 | 5.4 | 34.8 | 54.0 | 19.2 | 133.7 | 311.4 |

[BDR( DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.MORIMOTO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 22deg / 65% | Remark4 | : Mid |




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 | 19527.238 | 29.3 | 5.5 | 34.8 | 54.0 | 19.2 | 408.8 | 60.4 |

--- Vertical Polarization (AV)---

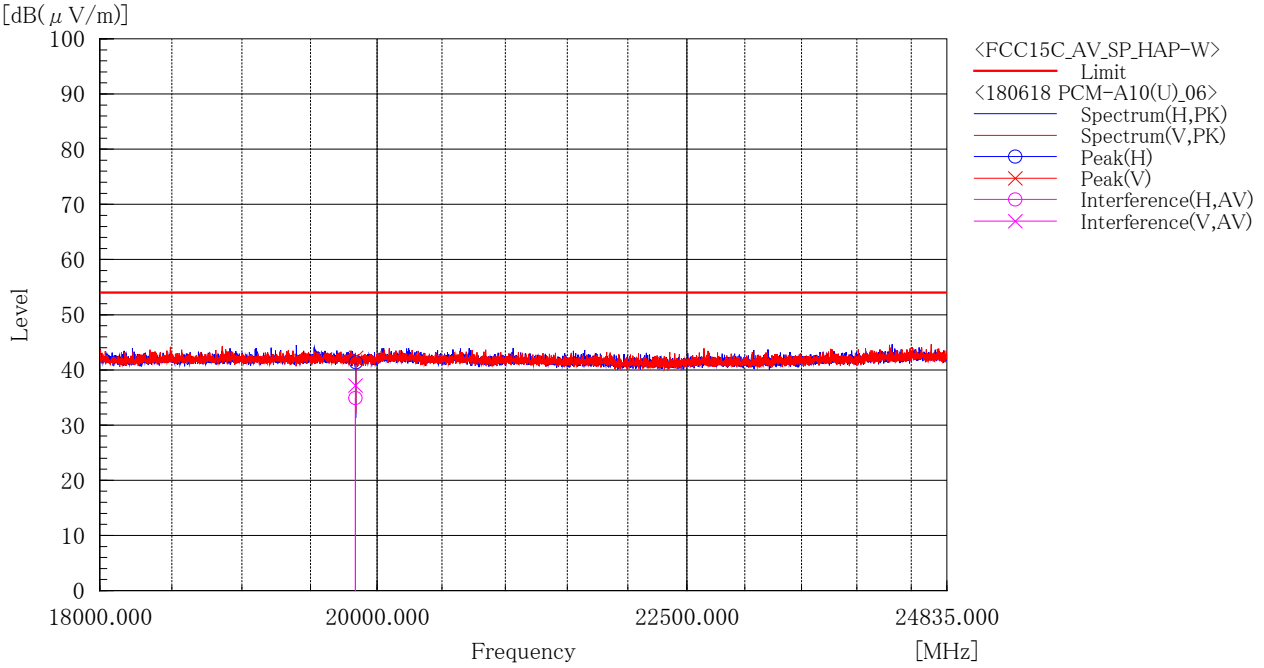
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [°] |
|---|---|---|---|---|---|---|---|---|
| 1 | 19526.914 | 29.2 | 5.5 | 34.7 | 54.0 | 19.3 | 120.4 | 176.7 |

[BDR( DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.MORIMOTO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 22deg / 65% | Remark4 | : High |




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 | 19835.950 | 29.4 | 5.5 | 34.9 | 54.0 | 19.1 | 431.8 | 56.4 |

--- Vertical Polarization (AV)---

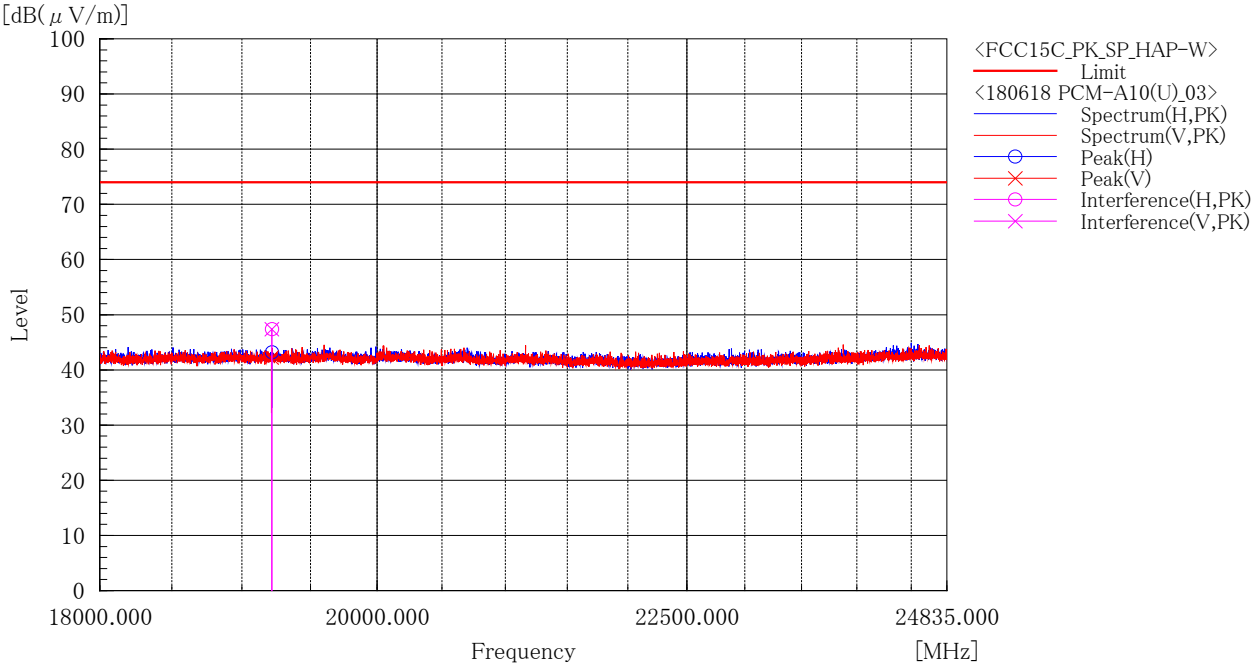
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [°] |
|---|---|---|---|---|---|---|---|---|
| 1 | 19836.052 | 31.7 | 5.5 | 37.2 | 54.0 | 16.8 | 104.4 | 249.1 |

[BDR( DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.MORIMOTO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 22deg / 65% | Remark4 | : Low |




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 | 19216.868 | 42.0 | 5.4 | 47.4 | 74.0 | 26.6 | 131.6 | 215.0 |

--- Vertical Polarization (PK)---

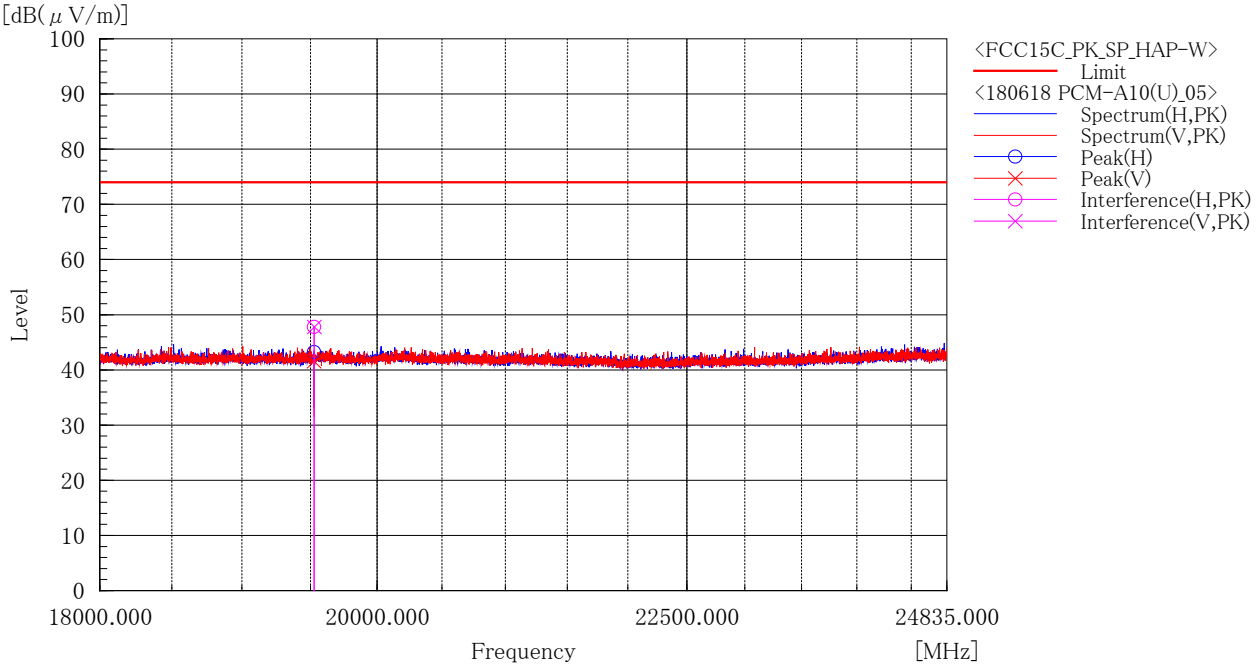
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [°] |
|---|---|---|---|---|---|---|---|---|
| 1 | 19214.570 | 42.0 | 5.4 | 47.4 | 74.0 | 26.6 | 133.7 | 309.5 |

[BDR( DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.MORIMOTO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 22deg / 65% | Remark4 | : Mid |




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 | 19526.852 | 42.3 | 5.5 | 47.8 | 74.0 | 26.2 | 408.8 | 62.4 |

--- Vertical Polarization (PK)---

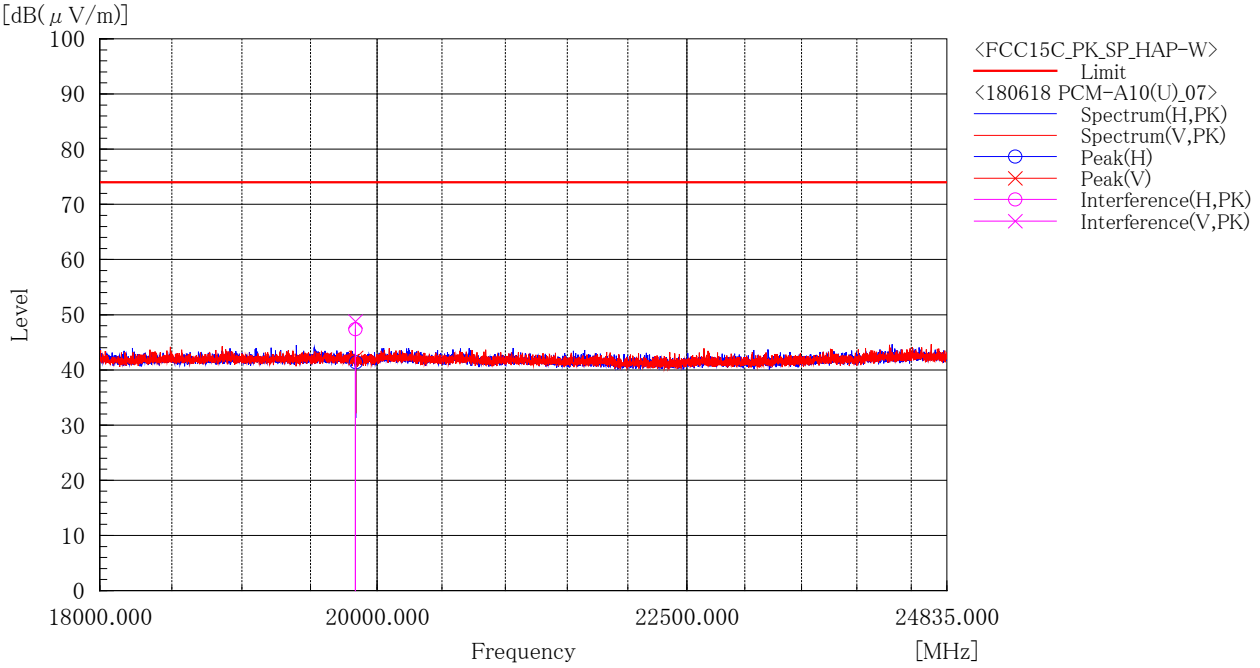
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [°] |
|---|---|---|---|---|---|---|---|---|
| 1 | 19527.944 | 42.3 | 5.5 | 47.8 | 74.0 | 26.2 | 120.4 | 176.7 |

[BDR( DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.MORIMOTO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : BDR DH5 |
| Temp./Hum. | : 22deg / 65% | Remark4 | : High |




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 | 19835.706 | 41.9 | 5.5 | 47.4 | 74.0 | 26.6 | 431.8 | 56.4 |

--- Vertical Polarization (PK)---

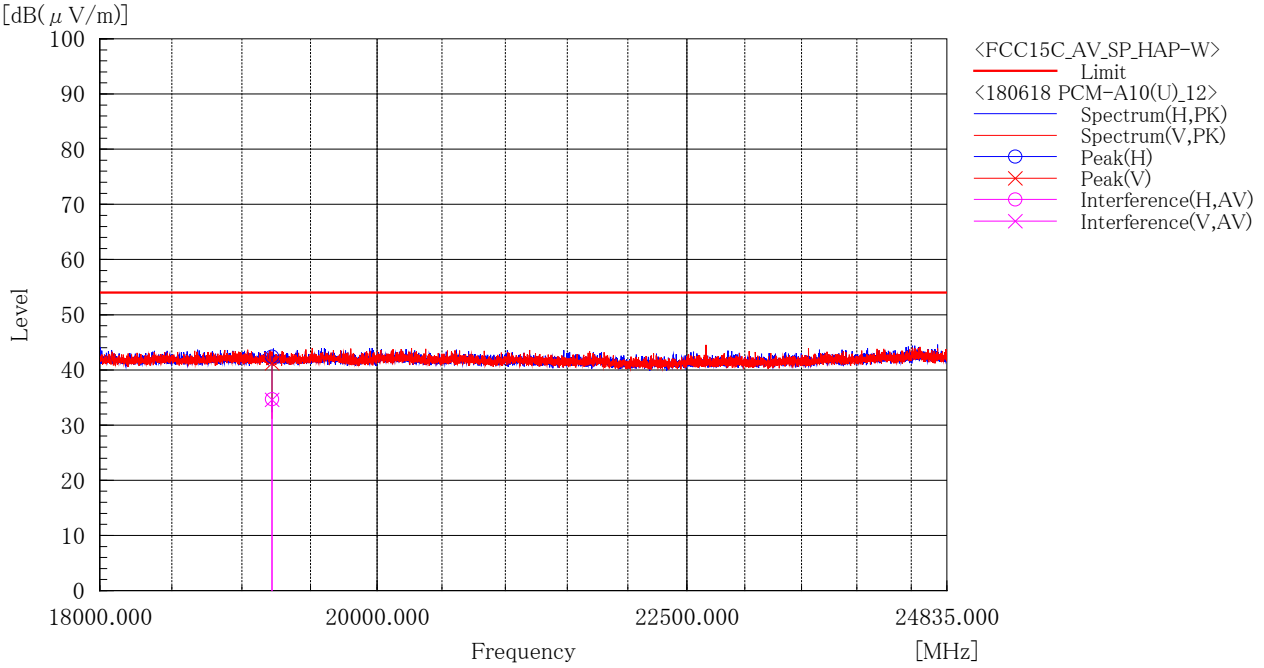
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [°] |
|---|---|---|---|---|---|---|---|---|
| 1 | 19836.478 | 43.3 | 5.5 | 48.8 | 74.0 | 25.2 | 104.4 | 251.0 |

[EDR( 3DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.MORIMOTO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 65% | Remark4 | : Low |




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 | 19217.690 | 29.3 | 5.4 | 34.7 | 54.0 | 19.3 | 261.8 | 315.2 |

--- Vertical Polarization (AV)---

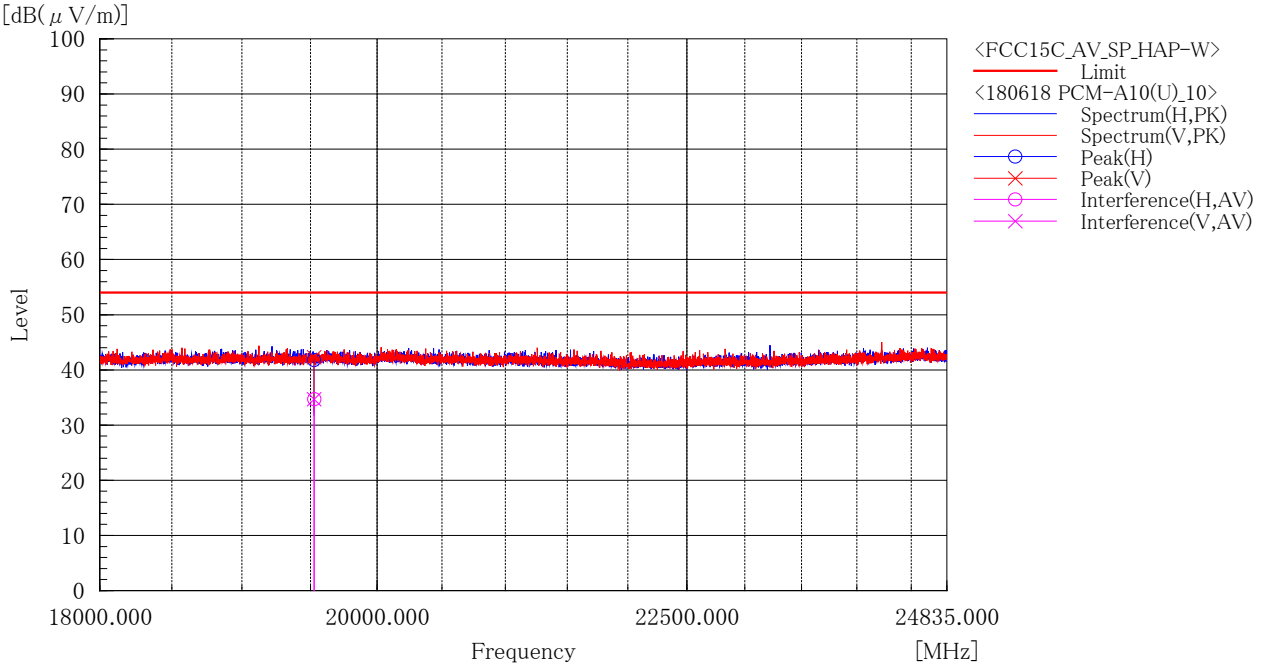
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 19217.346 | 29.2 | 5.4 | 34.6 | 54.0 | 19.4 | 231.9 | 359.2 |

[EDR( 3DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.MORIMOTO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 65% | Remark4 | : Mid |




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 | 19527.882 | 29.2 | 5.5 | 34.7 | 54.0 | 19.3 | 117.1 | 16.8 |

--- Vertical Polarization (AV)---

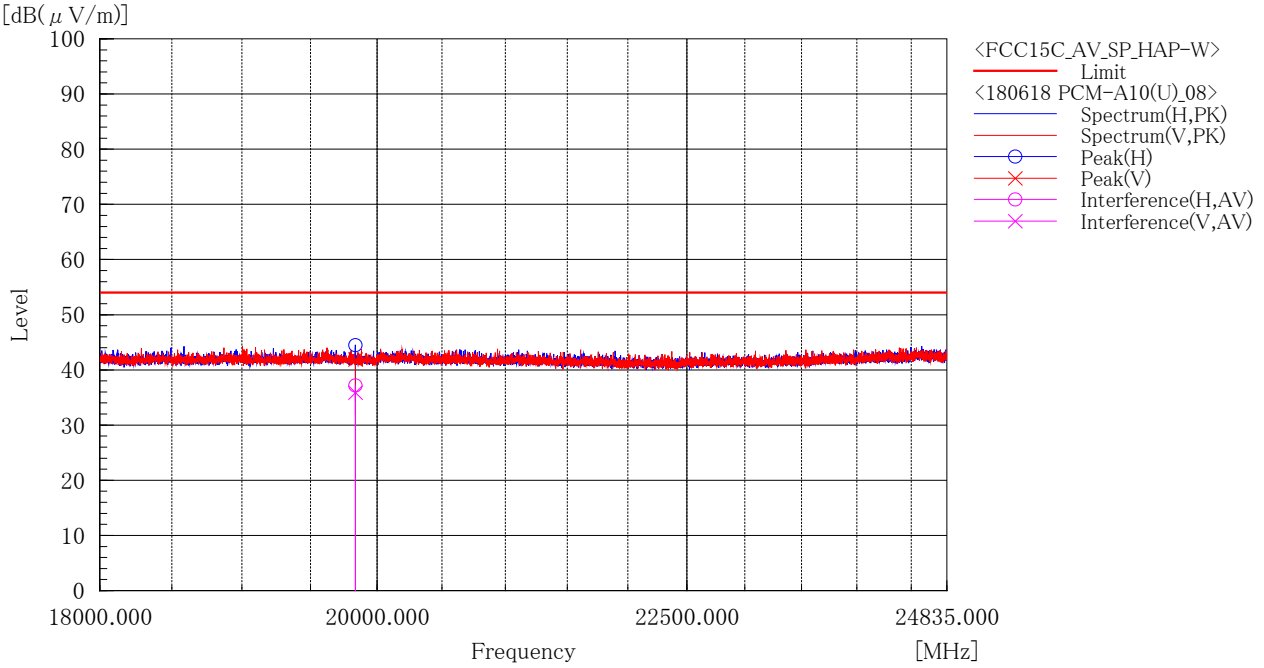
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [°] |
|---|---|---|---|---|---|---|---|---|
| 1 | 19527.418 | 29.2 | 5.5 | 34.7 | 54.0 | 19.3 | 407.1 | 82.6 |

[EDR( 3DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.MORIMOTO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 65% | Remark4 | : High |




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 | 19835.990 | 31.7 | 5.5 | 37.2 | 54.0 | 16.8 | 312.5 | 297.5 |

--- Vertical Polarization (AV)---

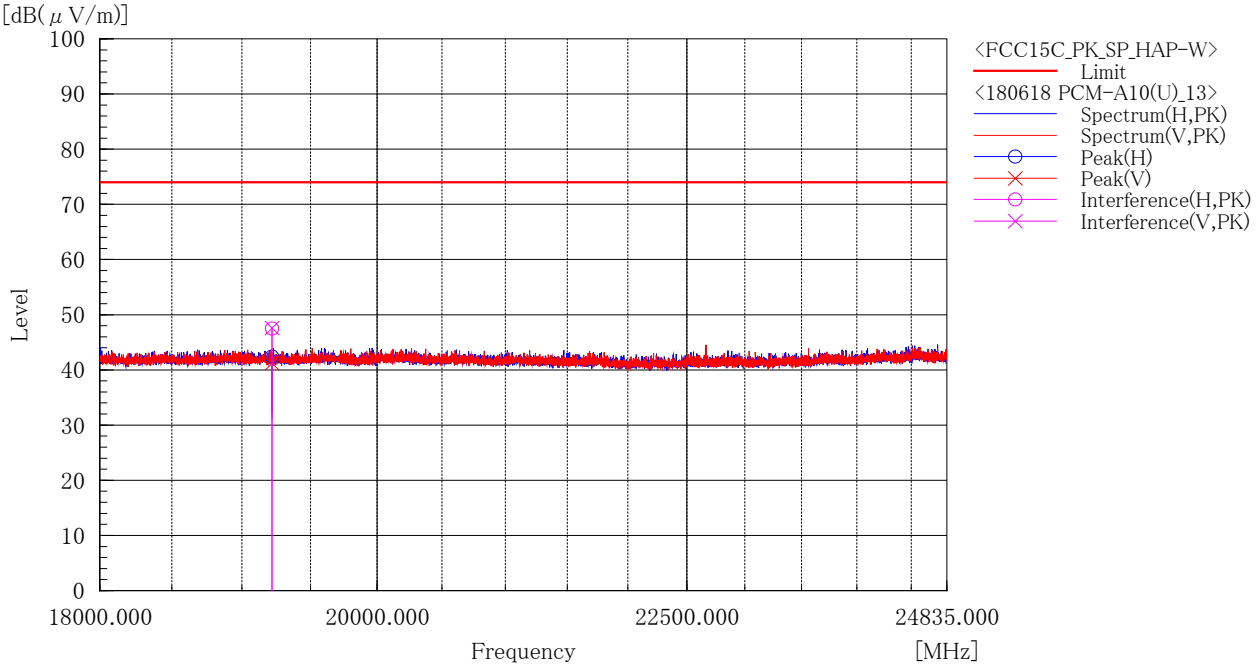
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [°] |
|---|---|---|---|---|---|---|---|---|
| 1 | 19835.950 | 30.4 | 5.5 | 35.9 | 54.0 | 18.1 | 100.0 | 258.6 |

[EDR( 3DH5 )/2402MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.MORIMOTO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 65% | Remark4 | : Low |




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 | 19217.276 | 42.1 | 5.4 | 47.5 | 74.0 | 26.5 | 261.8 | 317.2 |

--- Vertical Polarization (PK)---

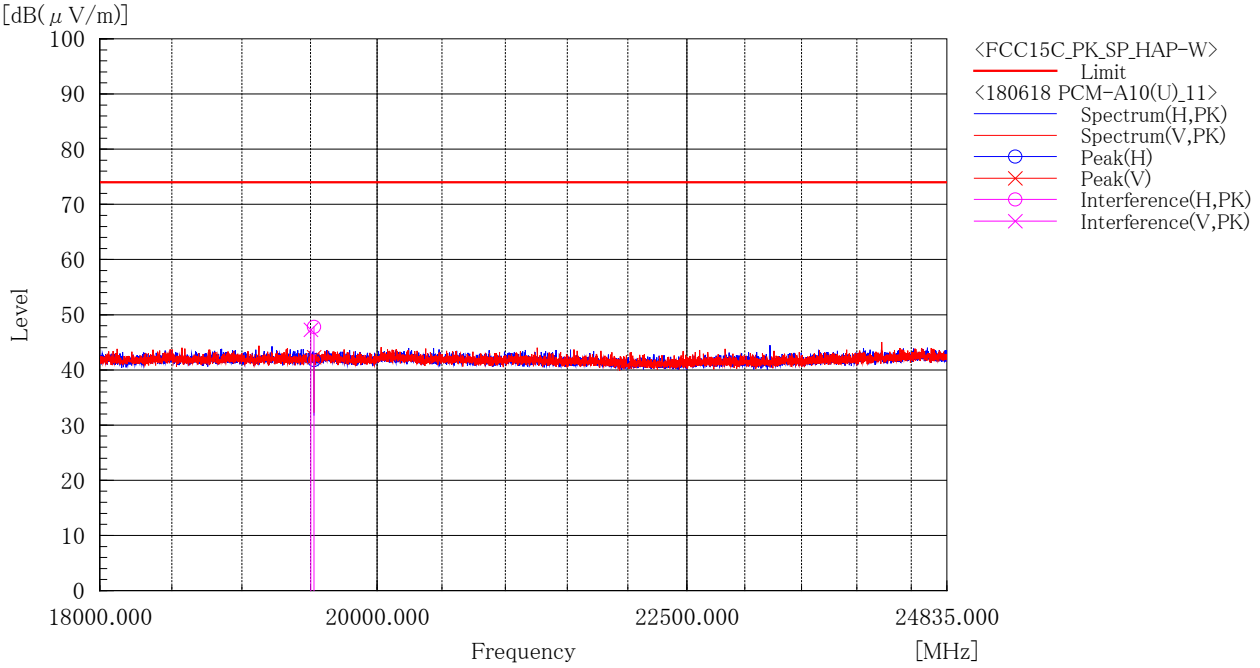
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [°] |
|---|---|---|---|---|---|---|---|---|
| 1 | 19216.896 | 42.2 | 5.4 | 47.6 | 74.0 | 26.4 | 231.9 | 359.2 |

[EDR( 3DH5 )/2441MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.MORIMOTO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 65% | Remark4 | : Mid |




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 | 19527.088 | 42.3 | 5.5 | 47.8 | 74.0 | 26.2 | 117.1 | 16.8 |

--- Vertical Polarization (PK)---

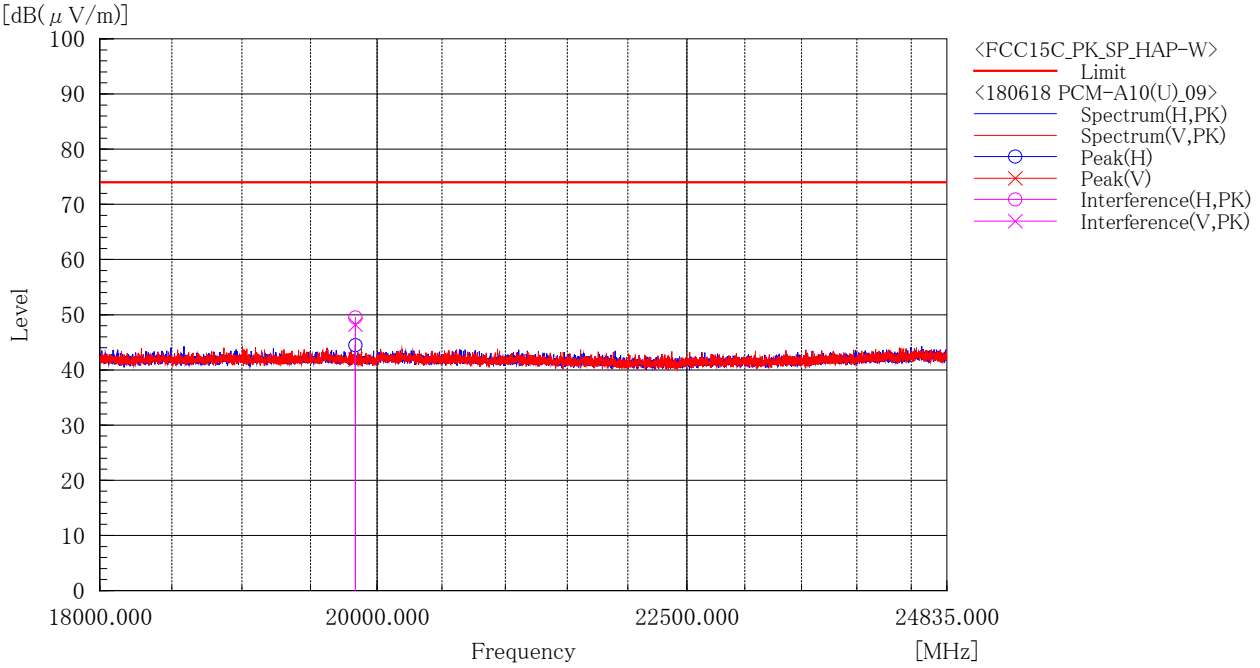
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [°] |
|---|---|---|---|---|---|---|---|---|
| 1 | 19503.020 | 41.8 | 5.5 | 47.3 | 74.0 | 26.7 | 407.1 | 80.6 |

[EDR( 3DH5 )/2480MHz]

Sony Global M&O Corp
Kisarazu No.1

<<Radiated Emission>>

| | | | |
|---|---|---|---|
| Model | : PCM-A10 | Limit | : FCC Part15C 15.209(a) 3m |
| Serial | : 0314002 | Remark1 | : |
| Operator | : Y.MORIMOTO | Remark2 | : X |
| Power | : DC 3.7V | Remark3 | : EDR 3DH5 |
| Temp./Hum. | : 22deg / 65% | Remark4 | : High |




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 | 19836.244 | 44.0 | 5.5 | 49.5 | 74.0 | 24.5 | 312.5 | 295.5 |

--- Vertical Polarization (PK)---

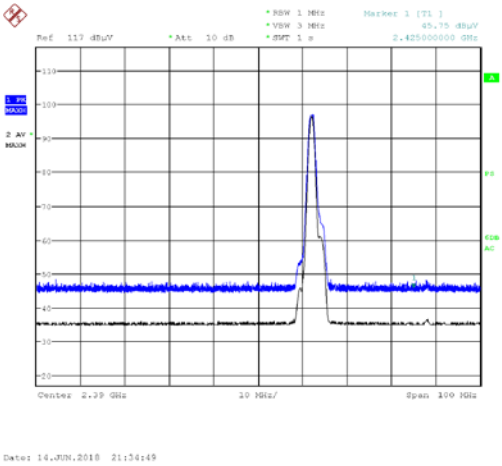
| No. | Frequency [MHz] | Reading [dB(μV)] | c.f [dB(1/m)] | Result [dB(μV/m)] | Limit [dB(μV/m)] | Margin [dB] | Height [cm] | Angle [° ] |
|---|---|---|---|---|---|---|---|---|
| 1 | 19835.834 | 42.7 | 5.5 | 48.2 | 74.0 | 25.8 | 100.0 | 258.6 |

2.4GHz Restricted-Band Edge (Plot data)

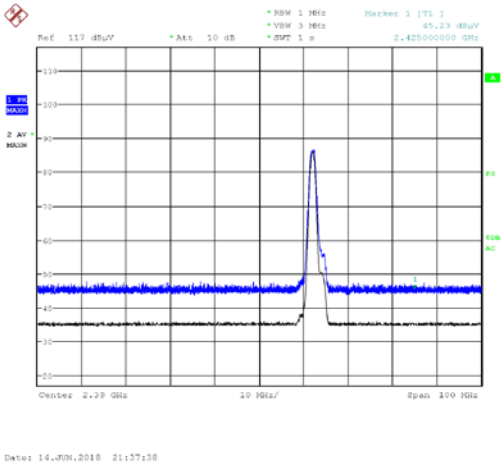
These plot data show peak (trace blue) and average (trace black) spectrum for worst case emissions in the restricted-band edges. (Restricted band edges: below 2390MHz and above 2483.5MHz)
The result of the final radiated emissions measurement refers in previous pages.

[BDR / 2402MHz]

Horizontal

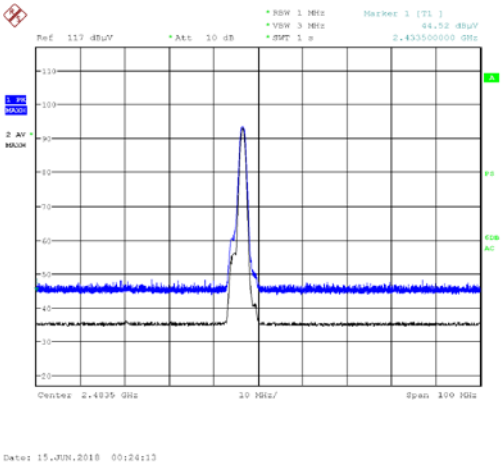


Vertical

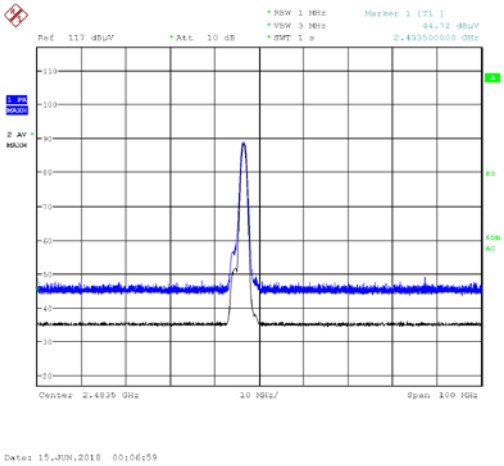


[BDR / 2480MHz]

Horizontal

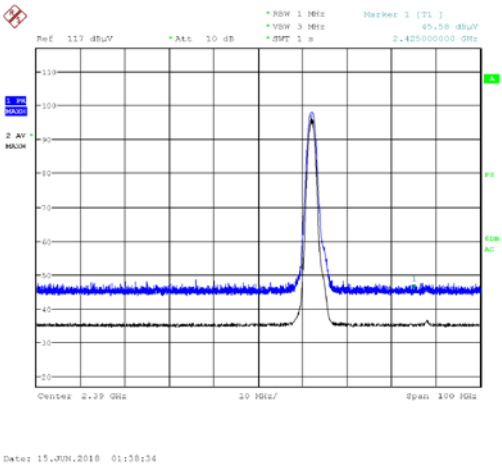


Vertical

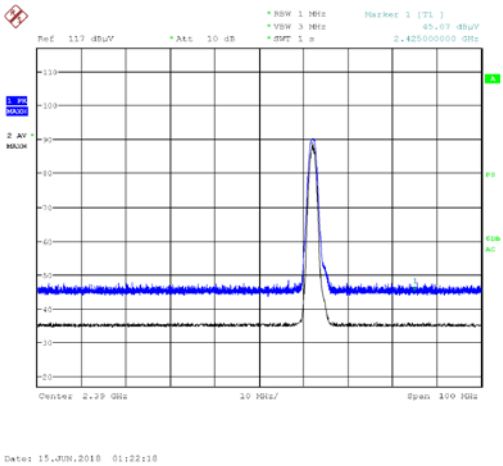


[EDR / 2402MHz]

Horizontal

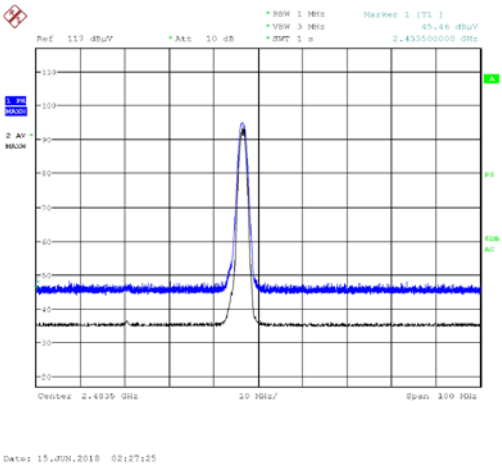


Vertical

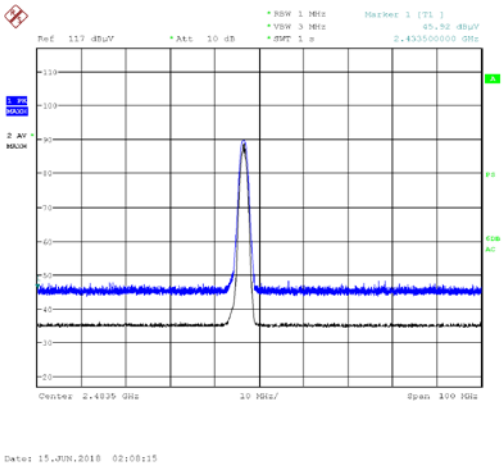


[EDR / 2480MHz]

Horizontal



Vertical

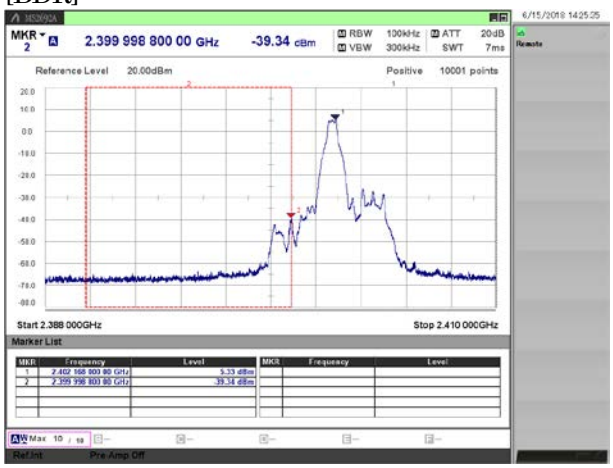


## 3.8. Conducted Spurious Emissions for Band Edge

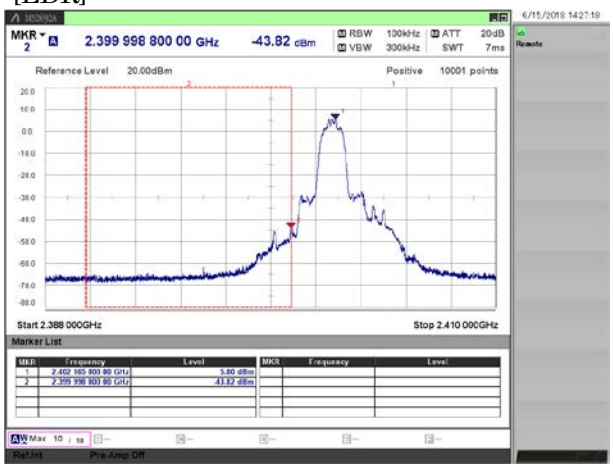
1) Ambient temperature : 23.4 deg.C
2) Relative humidity : 65.0 %
3) Date of measurement : June 15, 2018
4) Measured by : M.KOUGA
5) Operating mode : Transmitting mode

| Mode | | Channel [MHz] | Frequency [MHz] | Reading(PK) [dBm] | C.F. [dB] | Result(PK) [dBm] | Limit [dBm] | Margin [dB] |
|---|---|---|---|---|---|---|---|---|
| BDR | DH5 | 2402 | 2402.17 | 5.33 | 0.59 | 5.92 | - | - |
| | | | 2400.00 | -39.34 | 0.59 | -38.75 | -14.1 | 24.67 |
| EDR | 3DH5 | 2402 | 2402.17 | 5.80 | 0.59 | 6.39 | - | - |
| | | | 2400.00 | -43.82 | 0.59 | -43.23 | -13.6 | 29.62 |

[BDR]




[EDR]



# 4. Method of Calculation

## 4.1. AC Power-line Conducted Emissions Measurement

| | | |
|---|---|---|
| Method of calculation | | : Software |
| The Software for Calculation | Name | : EP5/ CE |
| | Version | : Ver5.0.0 |

Test Result [ dBuV ] = Meter Reading [ dBuV ] + C.F. [ dB ]

Notes :

(a) Meter Reading : Reading of the EMI test receiver.
(b) C.F. : System Loss + Correction Factor of LISN

## 4.2. Time of Occupancy (Dwell Time) Measurement

| | | |
|---|---|---|
| Method of calculation | | : Software |
| The Software for Calculation | Name | : SW-308 |
| | Version | : Ver.3.3 |

Test Result [ msec ] = Dwell Time [ msec ] * Cycle [ time ] * 31.6 [ sec ] / Sweep Time [ sec ]

Notes :

(a) Dwell Time : Transmission duration of 1 hopping.
(b) Cycle : Number of hopping appearances on the spectrum analyzer.
(The average of 5 measurements if it is random hopping equipment)
(c) 31.6 : 0.4 [sec ] * Number of Hopping Frequencies(79)
(d) Sweep Time : Sweep time settings on the spectrum analyzer.

## 4.3. Maximum Peak Conducted Output Power Measurement

| | | |
|---|---|---|
| Method of calculation | | : Software |
| The Software for Calculation | Name | : SW-308 |
| | Version | : Ver.3.3 |

Test Result [ dBm ] = Meter Reading [ dBm ] + C.F. [ dB ]
Duty Cycle [ % ] = Tx ON Time / (Tx ON Time + Tx OFF Time) * 100

Notes :

(a) Meter Reading : Reading of the spectrum analyzer.
(b) C.F. : System Cable Loss + EUT Cable Loss

## 4.4. Radiated Spurious Emission Measurement

| | | |
|---|---|---|
| Method of calculation | | : Software |
| The Software for Calculation | Name | : V-Scan |
| | Version | : Ver.4.0.30 |

Test Result [ dBuV/m ] = Meter Reading [ dBuV ] + C.F. [ dB/m ]

Notes :

(a) Meter Reading : Reading of the EMI test receiver or spectrum analyzer.

(b) C.F. : ☒ Antenna Factor (including Balun Loss) + System GainLoss

: ☐ Antenna Factor (including Balun Loss) + System GainLoss + 20 log (3 m/ 10 m)

## 4.5. Conducted Spurious Emission for Band Edge Measurement

| | | |
|---|---|---|
| Method of calculation | | : Software |
| The Software for Calculation | Name | : SW-308 |
| | Version | : Ver.3.3 |

Test Result [ dBm ] = Meter Reading [ dBm ] + C.F. [ dB ]

Notes :

(a) Meter Reading : Reading of the spectrum analyzer.

(b) C.F. : System Cable Loss + EUT Cable Loss

# 5. List of Test Equipment

All test results are traceable to the national and/or international standards.

## 5.1. AC Power-line Conducted Emissions

4th Site Shielded Room

| | Ctrl.# | Equipment | Model No. | Serial No. | Manufacturer | Cal.Int. | Last Cal. |
|---|---|---|---|---|---|---|---|
| x | - | Shield Room | - | - | TDK | - | - |
| x | M0575 | EMI Receiver | ESCI | 100161 | Rohde & Schwarz | 12 | 18.04.18 |
| - | M0109 | EMI Receiver | ESI7 | 100051 | Rohde & Schwarz | 12 | 18.04.13 |
| x | CS0043 | 4th Site CE Cable SYSTEM | - | - | EMC/RF Test Lab. | 12 | 18.06.01 |
| x | M0664 | 6dB Attenuator | 6806.01A | N/A | HUBER+SUHNER AG | 12 | 18.06.01 |
| x | M0619 | HIGH FREQUENCY FUSE | MP612A | N/A | Anritsu | 12 | 18.06.01 |
| - | M0026 | LISN | KNW-407 | 8-541-1 | Kyoritsu | 12 | 17.07.24 |
| - | M0420 | LISN | ESH3-Z5 | 829996/008 | Rohde & Schwarz | 12 | 17.08.04 |
| x | M0514 | LISN (for EUT) | ENV216 | 100424 | Rohde & Schwarz | 12 | 18.04.17 |
| - | M0152 | 50 ohm Terminator | CT-01 | N/A | TME | 12 | 17.12.01 |
| - | M0158 | 50 ohm Terminator | T1302 | N/A | Stack | 12 | 17.12.04 |
| x | M0690 | Thermometer | AD-5640A | 201304 | AND | 12 | 17.11.14 |

## 5.2. Antenna-port Conducted Measurements

4th Site Shielded Room 1

| | Ctrl.# | Equipment | Model No. | Serial No. | Manufacturer | Cal.Int. | Last Cal. |
|---|---|---|---|---|---|---|---|
| x | - | Shield Room | B83117-B2432-T161 | P26428 | Albatross Project | - | - |
| x | W0100 | Spectrum Analyzer | MS2692A | 6201338954 | Anritsu | 12 | 18.04.24 |
| x | W0006 | Power Meter | N1911A | MY50000295 | Keysight Technologies | 12 | 17.10.03 |
| x | W0007 | Power Sensor | N1922A | MY50180022 | Keysight Technologies | 12 | 17.10.04 |
| - | W0029 | 10dB Attenuator | 8493C | 76549 | Keysight Technologies | 12 | 17.08.03 |
| x | WC0005 | RF Cable | SUCOFLEX 102 | 34287 | HUBER + SUHNER | 12 | 17.08.03 |
| x | M0720 | Thermometer | TH-321 | 140044 | AS ONE | 12 | 17.06.09 |

## 5.3. Radiated Spurious Emissions

EMC Site 3m Semi-Anechoic Chamber

| | Ctrl.# | Equipment | Model No. | Serial No. | Manufacturer | Cal.Int. | Last Cal. |
|---|---|---|---|---|---|---|---|
| x | M0115 | Semi-Anechoic Chamber | - | 7D1-8A11 | Otsuka Science | 12 | 18.06.02 |
| x | M0686 | EMI Receiver | N9038A | MY52260113 | Keysight Technologies | 12 | 17.11.20 |
| x | M0562 | EMI Receiver | ESU26 | 100068 | Rohde & Schwarz | 12 | 17.06.29 |
| x | A0073 | Loop Antenna | HFH2-Z2 | 100171 | Rohde & Schwarz | 12 | 17.11.01 |
| x | A0089 | Biconical Antenna | BBA9106 | VHA91032835 | Schwarzbeck | 12 | 17.12.15 |
| x | A0088 | Log periodic Antenna | UHALP9108A1 | 0649 | Schwarzbeck | 12 | 17.12.15 |
| x | A0064 | Horn Antenna | BBHA9120D | 746 | Schwarzbeck | 12 | 17.11.18 |
| x | A0078 | Horn Antenna | HAP06-18W | 00000070 | TOYO Corporation | 12 | 17.11.18 |
| x | A0058 | Horn Antenna | HAP18-26W | 00000016 | TOYO Corporation | 12 | 17.12.01 |
| x | CS0017 | N-RE Cable SYSTEM 1 | - | - | EMC/RF Test Lab. | 12 | 17.11.17 |
| x | CS0018 | N-RE Cable SYSTEM 2 | - | - | EMC/RF Test Lab. | 12 | 17.11.17 |
| x | CS0045 | N-3m EMF Cable SYSTEM | - | - | EMC/RF Test Lab. | 12 | 17.11.17 |
| x | CS0074/0075 | N-RE Cable SYSTEM 4 | - | - | EMC/RF Test Lab. | 12 | 17.11.17 |
| x | M0126 | Step Attenuator | 8494H | 3837M01144 | Keysight Technologies | 12 | 18.06.02 |
| x | M0752 | Pre Amplifier | 310N | 320621 | SONOMA INSTRUMENT | 12 | 17.11.17 |
| x | M0128 | 3dB Attenuator | 8491A | 53541 | Keysight Technologies | 12 | 17.11.17 |
| x | M0609 | 3dB Attenuator | 8491B | MY39265960 | Keysight Technologies | 12 | 17.11.17 |
| x | M0737 | GHz Filter Box | FB-G1 | 001 | Sony Global M&O | 12 | 17.11.17 |
| x | M0687 | Thermo Meter | AD-5640A | 201301 | A&D | 12 | 17.10.06 |

About calibration interval

Valid until the end of the month listed in “Cal. Int.” column.