

ZPrüfbericht-Nr.: <i>Test report no.:</i>	CN23UYT3 001	Auftrags-Nr.: <i>Order no.:</i>	168437625	Seite 1 von 24 Page 1 of 24										
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2023-07-26											
Auftraggeber: <i>Client:</i>	Gullfoss Flowers LLC 450 Alaskan Way South, Suite 200, Seattle, Washington 98104													
Prüfgegenstand: <i>Test item:</i>	Presence Sensor Module													
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	GR8V23													
Auftrags-Inhalt: <i>Order content:</i>	Test Report													
Prüfgrundlage: <i>Test specification:</i>	FCC CFR Title 47, Part 15, Subpart C, Section 15.255 RSS-210 Issue 11 RSS-Gen Issue 5 KDB 364244 D01 Meas 15.255 Radars v01													
Wareneingangsdatum: <i>Date of sample receipt:</i>	2023-07-27	Please refer to Photo Document												
Prüfmuster-Nr.: <i>Test sample no.:</i>	168437625 (P01141918)													
Prüfzeitraum: <i>Testing period:</i>	2023-07-27 to 2023-12-01													
Ort der Prüfung: <i>Place of testing:</i>	MRT Technology (Suzhou) Co., Ltd.													
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.													
Prüfergebnis*: <i>Test result*:</i>	Pass													
geprüft von: <i>tested by:</i>	 Hardy Suo		genehmigt von: <i>authorized by:</i>	 Lin Lin										
Datum: <i>Date:</i>	2024-07-03		Ausstellungsdatum: <i>Issue date:</i>	2024-07-03										
Stellung / Position:	Sachverständige(r) / Expert		Stellung / Position:	Sachverständige(r) / Expert										
Sonstiges / Other:	FCC ID: 2BA9D-2823 IC: 30616-2823 HVIN: GR8V23 This report is for stand-alone configuration module GR8V23, and additional testing for HOSTs (HOSTs A, B, C, D configuration were tested, refer to Appendix B_CN23UYT3 001 for details of HOST).													
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>													
* Legende:	<table border="0"> <tr> <td>1 = sehr gut</td> <td>2 = gut</td> <td>3 = befriedigend</td> <td>4 = ausreichend</td> <td>5 = mangelhaft</td> </tr> <tr> <td>P(ass) = entspricht o.g. Prüfgrundlage(n)</td> <td>F(ail) = entspricht nicht o.g. Prüfgrundlage(n)</td> <td>N/A = nicht anwendbar</td> <td>N/T = nicht getestet</td> <td></td> </tr> </table>				1 = sehr gut	2 = gut	3 = befriedigend	4 = ausreichend	5 = mangelhaft	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet	
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* Legend:	<table border="0"> <tr> <td>1 = very good</td> <td>2 = good</td> <td>3 = satisfactory</td> <td>4 = sufficient</td> <td>5 = poor</td> </tr> <tr> <td>P(ass) = passed a.m. test specification(s)</td> <td>F(ail) = failed a.m. test specification(s)</td> <td>N/A = not applicable</td> <td>N/T = not tested</td> <td></td> </tr> </table>				1 = very good	2 = good	3 = satisfactory	4 = sufficient	5 = poor	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested	
1 = very good	2 = good	3 = satisfactory	4 = sufficient	5 = poor										
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Test report no.:

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Anmerkungen Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 OFF-TIME

RESULT: Pass

5.1.3 EMISSION BANDWIDTH

RESULT: Pass

5.1.4 EIRP POWER

RESULT: Pass

5.1.5 PEAK TRANSMITTER OUTPUT POWER

RESULT: Pass

5.1.6 TRANSMITTER SPURIOUS EMISSIONS

RESULT: Pass

5.1.7 FREQUENCY STABILITY

RESULT: Pass

5.1.8 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

MRT Technology (Suzhou) Co., Ltd.

D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

FCC Accreditation Designation No.: CN1166

ISED wireless device testing laboratory: CN0001

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radiated Emissions						
Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2023-12-28	SIP-AC3
Signal Analyzer	Keysight	N9010B	MRTSUE06559	1 year	2024-05-23	SIP-AC3
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06599	1 year	2024-09-24	SIP-AC3
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2024-10-09	SIP-AC3
Horn Antenna	R&S	HF907	MRTSUE06611	1 year	2024-07-14	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06619	1 year	2024-10-28	SIP-AC3
Thermohygrometer	testo	608-H1	MRTSUE06622	1 year	2024-11-03	SIP-AC3
Preamplifier	EMCI	EMC012645SE	MRTSUE06642	1 year	2024-01-12	SIP-AC3
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06646	1 year	2024-08-04	SIP-AC3
Anechoic Chamber	RIKEN	SIP-AC3	MRTSUE06782	1 year	2023-12-22	SIP-AC3
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2024-02-26	SIP-AC3
Signal Analyzer	Keysight	N9030B	MRTSUE06395	1 year	2024-06-29	SIP-TR1/SIP-TR2
mmWave Antenna	MI-WWAVE	261U-25/383	MRTSUE06273	N/A	N/A	SIP-TR2
mmWave Antenna	A-INFO	LB-15-25-A	MRTSUE06409	N/A	N/A	SIP-TR1/SIP-TR2
mmWave Antenna	A-INFO	LB-10-25-A	MRTSUE06410	N/A	N/A	SIP-TR2
Waveguide Harmonic Mixer	Keysight	M1970V	MRTSUE06271	3 years	2025-09-22	SIP-TR1/SIP-TR2
Waveguide Harmonic Mixer	Keysight	M1970W	MRTSUE06272	3 years	2025-09-29	SIP-TR2
mmWave Antenna	MI-WWAVE	261G/387	MRTSUE06274	N/A	N/A	SIP-TR2
mmWave Antenna	MI-WWAVE	261F/387	MRTSUE06275	N/A	N/A	SIP-TR2
mmWave Extension Module	Keysight	N9029AV05	MRTSUE06367	N/A	N/A	SIP-TR2
mmWave Extension Module	Keysight	N9029AV06	MRTSUE06368	N/A	N/A	SIP-TR2
Conducted Emissions						
Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2024-05-23	SIP-SR2

EMI Test Receiver	R&S	ESR3	MRTSUE06612	1 year	2024-05-23	SIP-SR2
Thermohygrometer	testo	608-H1	MRTSUE06621	1 year	2024-11-03	SIP-SR2
Shielding Room	MIX-BEP	SIP-SR2	MRTSUE06949	5 years	2024-10-23	SIP-SR2

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Parameter	Uncertainty
AC Conducted Emission Measurement	Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): 9kHz~150kHz: 3.58dB 150kHz~30MHz: 3.20dB
Radiated Emission Measurement	Measurement Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$): Coaxial: 9kHz~30MHz: 2.61dB Coplanar: 9kHz~30MHz: 2.62dB Horizontal: 30MHz~200MHz: 3.79dB 200MHz~1GHz: 3.91dB 1GHz~40GHz: 4.99dB 40GHz~50GHz: 3.96dB 50GHz~75GHz: 4.01dB 75GHz~110GHz: 3.99dB 110GHz~140GHz: 4.11dB 140GHz~220GHz: 4.20dB Vertical: 30MHz~200MHz: 4.06dB 200MHz~1GHz: 5.21dB 1GHz~40GHz: 4.90dB 40GHz~50GHz: 3.86dB 50GHz~75GHz: 3.89dB 75GHz~110GHz: 3.87dB 110GHz~140GHz: 4.13dB 140GHz~220GHz: 4.24dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the MRT Technology (Suzhou) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The MRT Technology (Suzhou) Co., Ltd. Test facility located at D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The product is a Presence Sensor Module, which supports 60GHz microwave technology.

Presence Sensor Module GR8V23 intends to integrate into HOSTs A, B, C, D. This report includes test data for GR8V23 in stand-alone configuration, and additional test for these HOSTs.

Presence Sensor Module GR8V23 integrating into these HOSTs is without any hardware/software change.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Presence Sensor Module
Type Designation:	GR8V23
FCC ID:	2BA9D-2823
IC:	30616-2823
HVIN:	GR8V23
Operating Voltage:	Powered by USB Port DC 5.0V via PC
Operating Temperature Range:	0 °C ~ 70 °C
Technical Specification	
Frequency Range:	57.0GHz - 61.56GHz 61.0GHz - 61.5GHz
Type of radar:	Field disturbance radar
Type of Modulation:	FMCW
Antenna Type:	Integral antenna
Antenna Gain:	Tx: 3 dBi (provides by client) Rx: 3 dBi (provides by client)
Remark: operation frequency bands 57.0GHz - 61.56GHz and 61.0GHz - 61.5GHz share the same antenna and can't transmission simultaneously.	

3.3 Independent Operation Modes

The basic operation modes are:

- A. 57.0GHz - 61.56GHz transmitting mode
- B. 61.0GHz - 61.5GHz transmitting mode

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10:2020 and FCC KDB 364244 D01 Meas 15.255 Radars v01.

Table 3: Test environments

Environment Parameter	Values During Tests		
	Temperature	Voltage	Relative Humidity
NTNV	22°C±2°C	5.0Vdc	Ambient

4.3 Special Accessories and Auxiliary Equipment

Table 4: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N
Laptop	Lenovo	E495	N/A
Debug Board	HUIZHOU GAOSHENGDA TECHNOLOGY CO., LTD	40-G55X81-IRC2LG	N/A

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

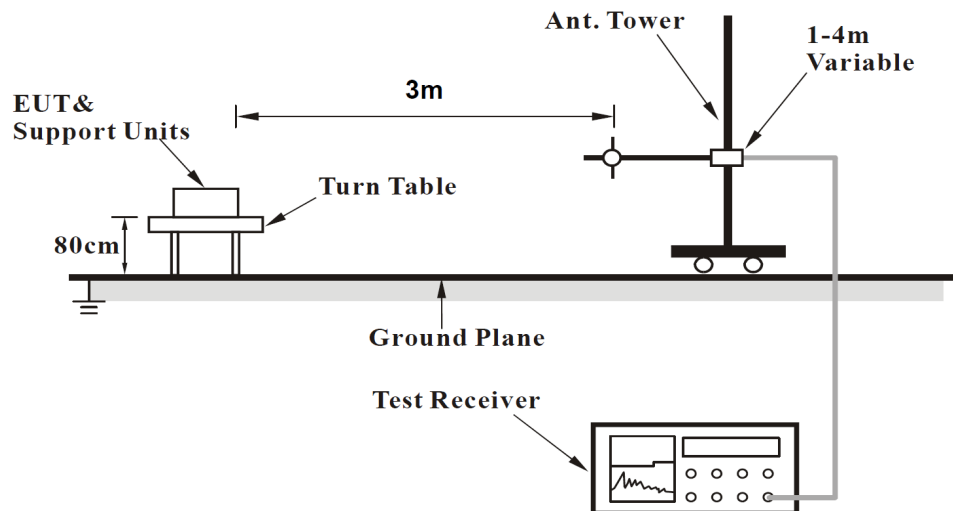


Diagram of Measurement Configuration for Radiation Test (1GHz-40GHz)

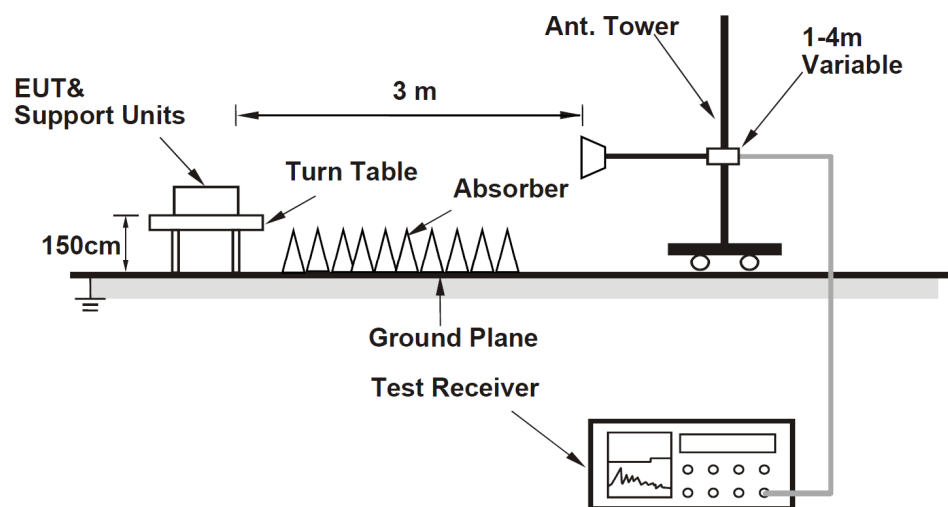


Diagram of Measurement Configuration for Radiation Test (above 40GHz)

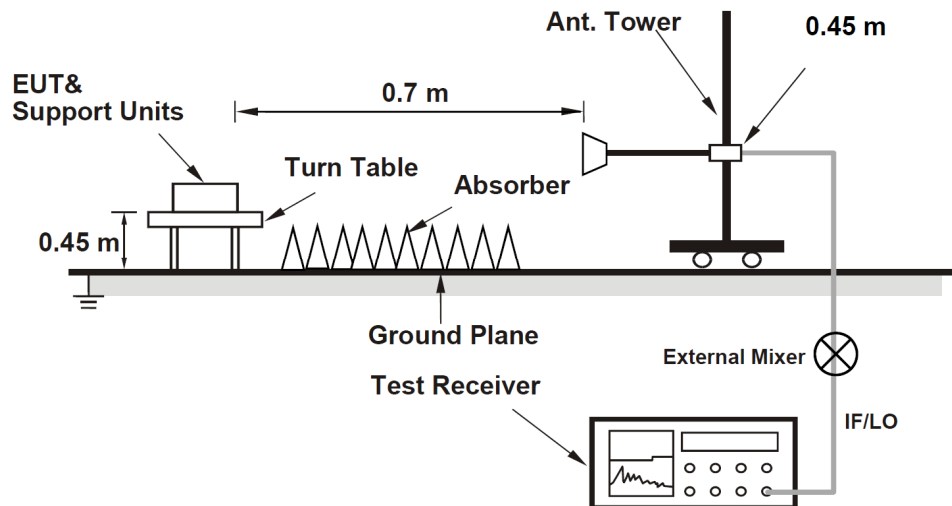
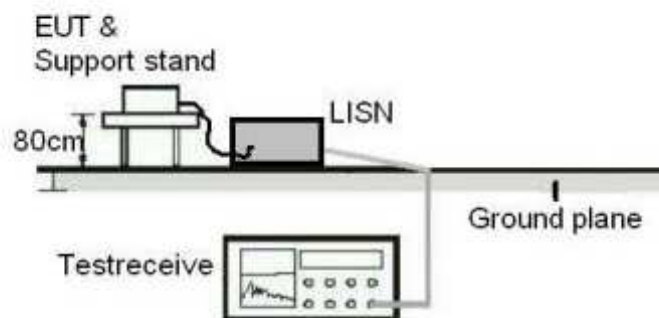


Diagram of Measurement Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.203

According to the manufacturer declared, the EUT has integral antenna, the gain of antenna is 3 dBi, which that permanent attachment and no consideration of replacement.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

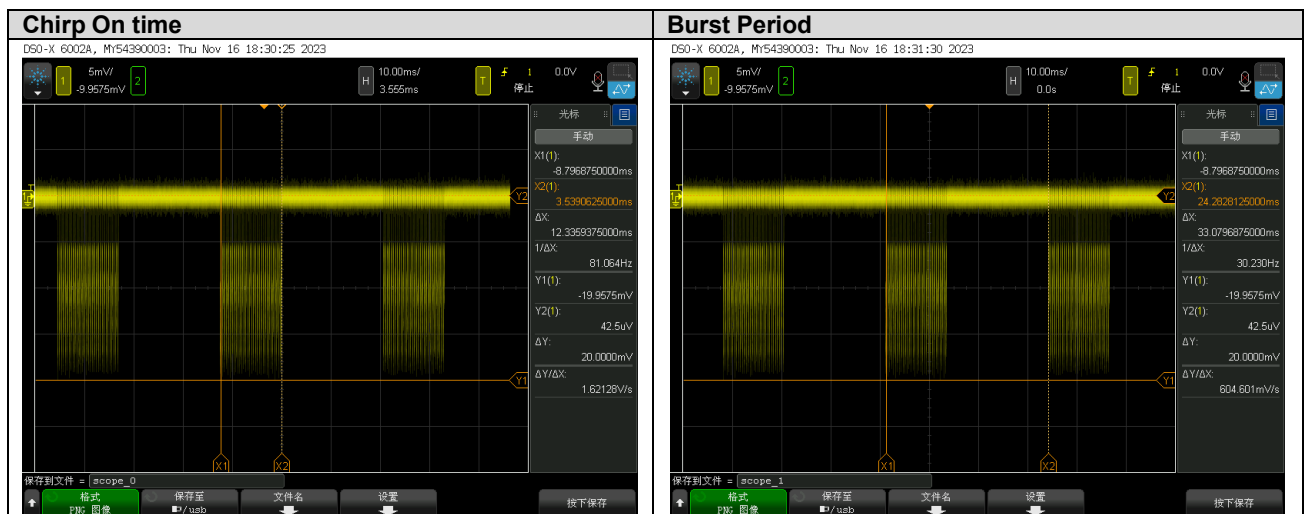
5.1.2 Off-time

RESULT:
Pass
Test Specification

Test standard	: FCC Part 15.255 (c)(2)(ii) RSS-210 Annex J.3.2(b)(ii) ANSI C63.10:2020 and FCC KDB 364244 D01 Meas
Basic standard	: 15.255 Radars v01. KDB 364244 D01 Meas 15.255 Radars v01 Annex A 57.0–61.56 GHz: sum of continuous transmitter off-times of at least two milliseconds equals at least 16.5 milliseconds within any contiguous interval of 33 milliseconds
Limits	: Note: Any discrete off-time periods of less than 2 milliseconds are not to be considered when determining the total off-time over any 33-millisecond window
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2023-11-16
Input voltage	: Powered by USB Port DC 5.0V via PC
Operation mode	: A
Ambient temperature	: 21.7°C
Relative humidity	: 51.9%
Atmospheric pressure	: 101 kPa

Test Results:
- For Operation Frequency Range 57.0 - 61.56 GHz:


Chirps On time	Burst Period	Off-time	Limit of Off-time	Test Result
12.34 ms	33.08 ms	20.74 ms	>=16.5 ms	Pass

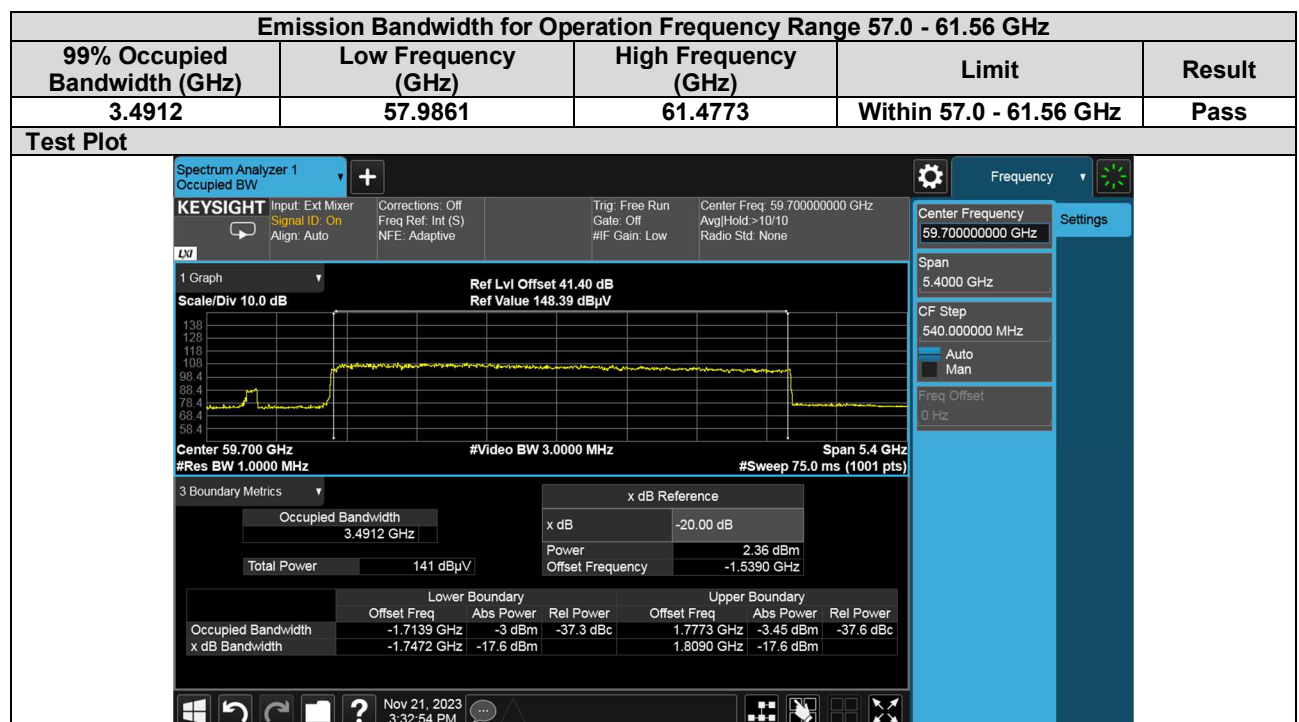
5.1.3 Emission Bandwidth

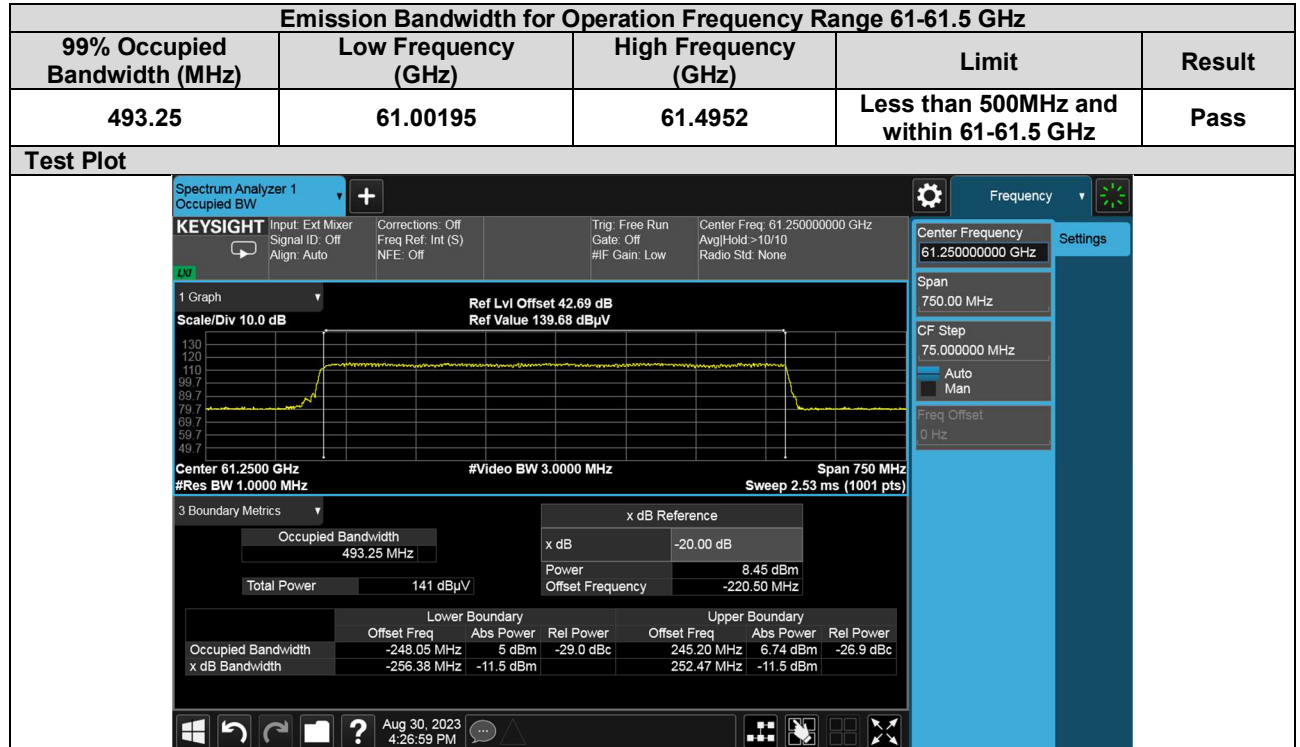
RESULT:
Pass
Test Specification

Test standard	:	FCC Part 15.255 (c)(2)(v) RSS-210 Annex J.3.2(b)(ii), RSS-Gen section 6.7 ANSI C63.10:2020 and FCC KDB 364244 D01 Meas
Basic standard	:	15.255 Radars v01. KDB 364244 D01 Meas 15.255 Radars v01 section 6
Limits	:	- Operation frequency band within 57.0GHz - 61.56GHz: within assigned band - Operation frequency band within 61.0GHz - 61.5GHz: less than 500MHz and within assigned band
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2023-08-30 2023-11-21
Input voltage	:	Powered by USB Port DC 5.0V via PC
Operation mode	:	A, B
Ambient temperature	:	22~24°C
Relative humidity	:	47~52%
Atmospheric pressure	:	101~102 kPa

Test Results:
- For Operation Frequency Range 57.0 - 61.56 GHz:




5.1.4 EIRP Power

RESULT:
Pass
Test Specification

Test standard	:	FCC Part 15.255 (c)(2)(ii) FCC Part 15.255 (c)(2)(v) RSS-210 Annex J.3.2(a) RSS-210 Annex J.3.2(b)(ii) ANSI C63.10:2020 and FCC KDB 364244 D01 Meas
Basic standard	:	15.255 Radars v01. KDB 364244 D01 Meas 15.255 Radars v01 section 7 - Operation frequency band within 57.0GHz - 61.56GHz: 20dBm peak EIRP - Operation frequency band within 61.0GHz - 61.5GHz: 43dBm peak EIRP, 40dBm average EIRP, in addition, the average power of any emission outside of the 61.0–61.5 GHz band, measured during the transmit interval, but still within the 57–71 GHz band, shall not exceed 10 dBm, and the peak power of any emission shall not exceed 13 dBm
Limits	:	
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2023-07-27 to 2023-12-01
Input voltage	:	Powered by USB Port DC 5.0V via PC
Operation mode	:	A, B
Ambient temperature	:	22~24°C
Relative humidity	:	47~52%
Atmospheric pressure	:	101~102 kPa

Test Results:
- For Operation Frequency Range 57.0 - 61.56 GHz:

Peak EIRP Power Measurement for Operation Frequency Range 57.0 - 61.56 GHz								
Frequency (GHz)	Measure Distance (m)	Measure ANT Gain (dBi)	DSO (mV)	Power measured (dBm)	E _{meas.} (dBuV/m)	EIRP (dBm)	EIRP Limit (dBm)	Test Result
59.7	0.7	24.34	3.95	-29.26	119.18	11.26	20	Pass

Note 1: The test distance is 0.7m

Note 2: $E(\text{dBuV/m}) = 126.8 - 20\log(300/f_c) + \text{SG Level}(\text{dBm}) - \text{Antenna Gain}(\text{dBi})$
 $\text{EIRP}(\text{dBm}) = E(\text{dBuV/m}) + 20\log(d) - 104.7$

Note 3: EIRP is without degradation when in HOST configuration.

- For Operation Frequency Range 61 - 61.5 GHz:

Peak EIRP Power Measurement for Operation Frequency Range 61-61.5 GHz								
Frequency (GHz)	Measure Distance (m)	Measure ANT Gain (dBi)	DSO (mV)	Power measured (dBm)	E _{meas.} (dBuV/m)	EIRP (dBm)	PK EIRP Limit (dBm)	Test Result
61.25	0.3	24.77	8.70	-30.87	117.36	2.20	43	Pass

Average EIRP Power Measurement for Operation Frequency Range 61-61.5 GHz								
Frequency (GHz)	Measure Distance (m)	Measure ANT Gain (dBi)	DSO (uV)	Power measured (dBm)	E _{meas.} (dBuV/m)	EIRP (dBm)	Ave. EIRP Limit (dBm)	Test Result
61.25	0.3	24.77	643	-36.20	112.03	-3.13	40	Pass

Note 1: The test distance is 0.3m

Note 2: $E(\text{dBuV/m}) = 126.8 - 20\log(300/f_c) + \text{SG Level}(\text{dBm}) - \text{Antenna Gain}(\text{dBi})$

$\text{EIRP}(\text{dBm}) = E(\text{dBuV/m}) + 20\log(d) - 104.7$

Note 3: the peak EIPR of fundamental frequency of 61-61.5 GHz is less than 13dBm, hence the peak power within the 57-71 GHz is less than 13dBm, the average EIPR of fundamental frequency of 61-61.5 GHz is less than 10dBm, hence the average power within the 57-71 GHz is less than 10dBm

Note 4: EIRP is without degradation when in HOST configuration.

5.1.5 Peak Transmitter Output Power

RESULT:

Pass

Test Specification

Test standard : RSS-210 Annex J.5(b)
61.0–61.5 GHz: For devices with an emission bandwidth
Limits : greater than or equal to 100 MHz, the peak transmitter
output power shall not exceed 500 mW.
Kind of test site : Shielded Room

Test Setup

Date of testing : 2023-07-27 to 2023-12-01
Input voltage : Powered by USB Port DC 5.0V via PC
Operation mode : B
Ambient temperature : 22~24°C
Relative humidity : 47~52%
Atmospheric pressure : 101~102 kPa

Test Result:

- For Operation Frequency Range 57.0 - 61.56 GHz (reporting only):

Peak Conducted Power Measurement for Operation Frequency Range 57.0 - 61.56 GHz					
Frequency (GHz)	Peak EIPR (dBm)	Antenna Gain (dBi)	Conducted Power (dBm)	Limit	Test Result
59.7	11.26	3	8.26	--	Pass

- For Operation Frequency Range 61 - 61.5 GHz:

Peak Conducted Power Measurement for Operation Frequency Range 61-61.5 GHz					
Frequency (GHz)	Peak EIPR (dBm)	Antenna Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Test Result
61.25	2.20	3	-0.8	27	Pass

5.1.6 Transmitter Spurious Emissions

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.255 (d), 15.209 RSS-210 Annex J.4, RSS-Gen section 6.13 ANSI C63.10:2020 and FCC KDB 364244 D01 Meas
Basic standard	: 15.255 Radars v01. KDB 364244 D01 Meas 15.255 Radars v01 section 8 (1) The power density of any emissions outside the 57–71 GHz band shall consist solely of spurious emissions (2) Radiated emissions below 40 GHz shall not exceed the general limits in § 15.209 and RSS-Gen section 6.13
Limits	: (3) Between 40 GHz and 200 GHz, the level of these emissions shall not exceed 90 pW/cm ² at a distance of 3 meters (4) The levels of the spurious emissions shall not exceed the level of the fundamental emission
Kind of test site	: 3m Semi-anechoic Chamber & 3m Full-anechoic Chamber & Shielded Room

Test Setup

Date of testing	: 2023-08-17 to 2023-12-01
Input voltage	: Powered by USB Port DC 5.0V via PC
Operation mode	: A, B
Ambient temperature	: 22~24°C
Relative humidity	: 47~52%
Atmospheric pressure	: 101~102 kPa

For the measurement records, refer to the appendix A.

5.1.7 Frequency Stability

RESULT:
Pass
Test Specification

Test standard	:	FCC Part 15.255 (f) RSS-210 Annex J.6
Basic standard	:	ANSI C63.10:2020 and FCC KDB 364244 D01 Meas 15.255 Radars v01. KDB 364244 D01 Meas 15.255 Radars v01 section 9
Limits	:	• Operation frequency band within 57.0GHz - 61.56GHz: within assigned band • Operation frequency band within 61.0GHz - 61.5GHz: within assigned band
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2023-09-01 2023-11-23
Input voltage	:	Powered by USB Port DC 5.0V via PC
Operation mode	:	A
Ambient temperature	:	22~24°C
Relative humidity	:	47~52%
Atmospheric pressure	:	101~102 kPa

Test Results:

Test Conditions		Operation frequency band 57.0GHz - 61.56GHz		Operation frequency band 61.0GHz - 61.5GHz		Limit
Test Temperature (°C)	Voltage (Volt)	Measured Low Frequency (MHz)	Measured High Frequency (MHz)	Measured Low Frequency (MHz)	Measured High Frequency (MHz)	Result
50	DC 5V	57.9880	61.4891	61.0006	61.49489	Pass
40	DC 5V	57.9887	61.4905	61.00036	61.49449	Pass
30	DC 5V	57.9841	61.4903	61.00077	61.49513	Pass
20	DC 5V	57.9836	61.4892	61.00066	61.49479	Pass
	DC 4.25V	57.9862	61.4927	61.00093	61.49539	Pass
	DC 5.75V	57.9861	61.4902	61.00098	61.49542	Pass
10	DC 5V	57.9886	61.4935	61.00112	61.49493	Pass
0	DC 5V	57.9904	61.4895	61.00153	61.49585	Pass
-10	DC 5V	57.9818	61.4914	61.00272	61.49620	Pass
-20	DC 5V	57.9887	61.4869	61.00213	61.49568	Pass

5.1.8 Conducted Emission on AC Mains

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.207(a) RSS-Gen section 8.8
Basic standard	: ANSI C63.10:2020 and FCC KDB 364244 D01 Meas 15.255 Radars v01.
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) RSS-Gen section 8.8 Table 4
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2023-07-27 to 2023-12-01
Input voltage	: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Operation mode	: A, B
Earthing	: Not connected
Ambient temperature	: 22~24°C
Relative humidity	: 47~52%
Atmospheric pressure	: 101~102 kPa

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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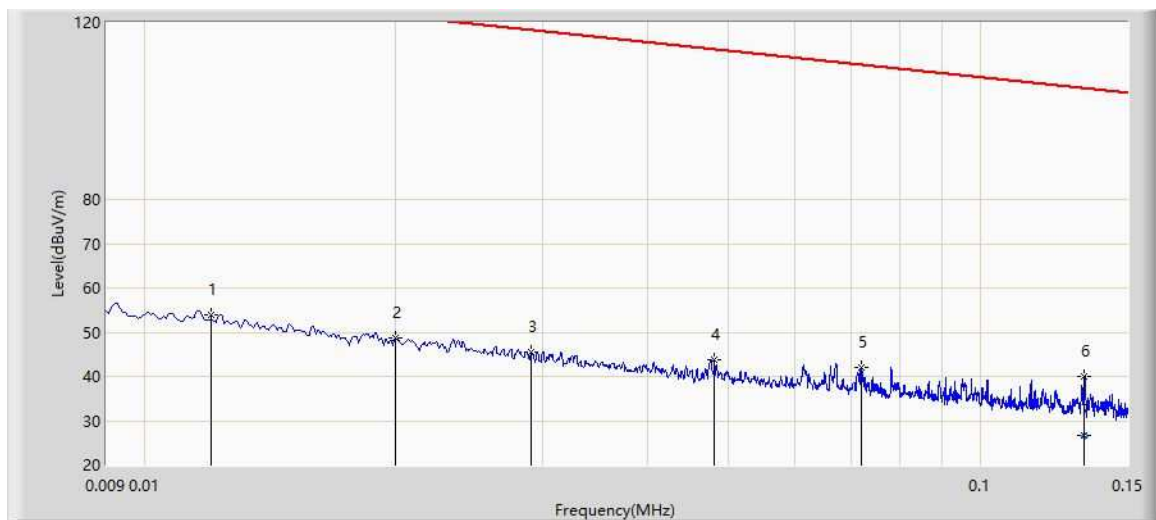
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Appendix A.1: Test Results of Field strength of harmonics in stand-alone configuration

Appendix A.1.1 Operation Frequency Range 57.0 - 61.56 GHz

9kHz - 30MHz

Site: SIP-AC3	Test Date: 2023/11/23
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: FMZB1519B 9kHz-30MHz	Polarity: Coaxial
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 57.0 - 61.56 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.012	53.783	33.806	-72.220	126.003	19.977	PK
2		0.020	48.820	29.163	-72.748	121.568	19.657	PK
3		0.029	45.526	26.229	-72.817	118.342	19.297	PK
4		0.048	43.764	24.901	-70.204	113.968	18.864	PK
5		0.072	41.919	23.135	-68.529	110.448	18.784	PK
6	*	0.133	39.859	21.027	-65.262	105.121	18.832	PK
7		0.133	26.632	7.800	-78.489	105.121	18.832	QP

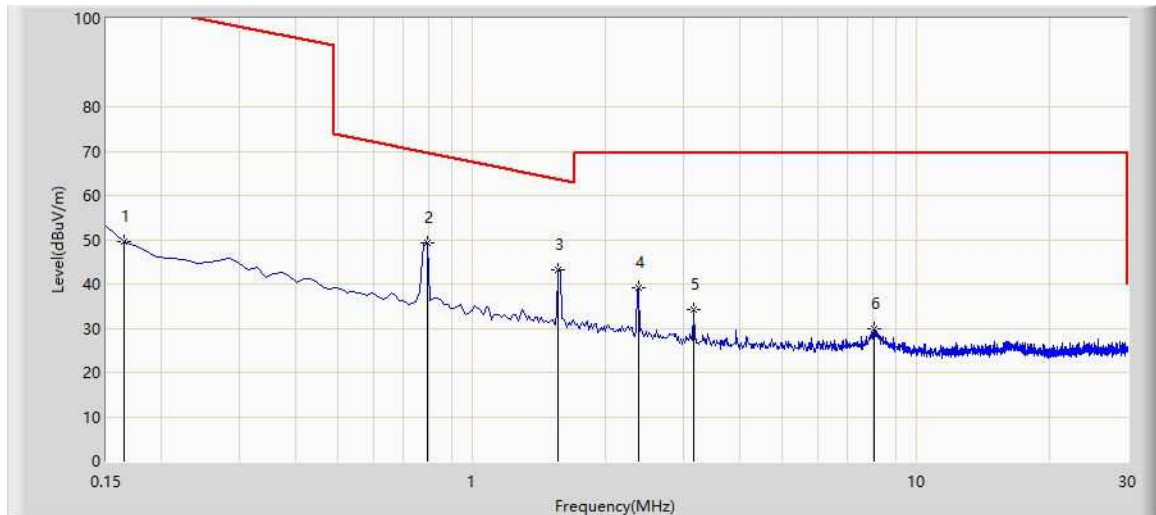
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: SIP-AC3	Test Date: 2023/11/23
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: FMZB1519B 9kHz-30MHz	Polarity: Coaxial
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 57.0 - 61.56 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		0.165	49.615	30.834	-53.634	103.249	18.781	PK
2	*	0.792	49.225	30.175	-20.417	69.641	19.049	PK
3		1.568	43.172	24.103	-20.554	63.726	19.069	PK
4		2.374	39.208	20.092	-30.292	69.500	19.116	PK
5		3.165	34.205	15.055	-35.295	69.500	19.150	PK
6		8.075	29.968	11.085	-39.532	69.500	18.883	PK

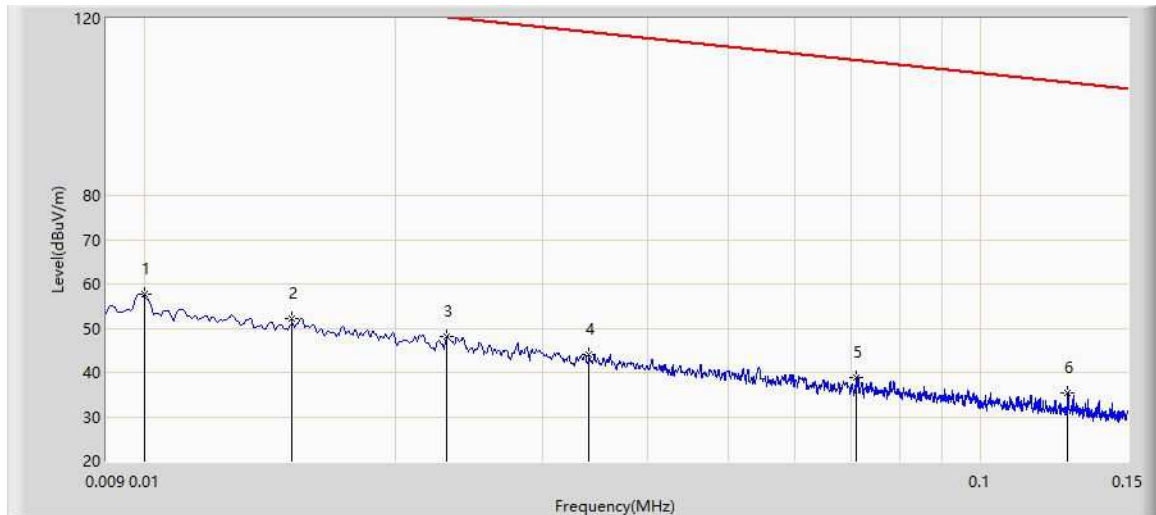
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: SIP-AC3	Test Date: 2023/11/23
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: FMZB1519B 9kHz-30MHz	Polarity: Coplanar
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 57.0 - 61.56 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	0.010	57.757	37.700	-69.828	127.585	20.057	PK
2		0.015	52.309	32.452	-71.757	124.065	19.857	PK
3		0.023	48.206	28.669	-72.149	120.355	19.537	PK
4		0.034	44.092	24.995	-72.870	116.962	19.097	PK
5		0.071	38.927	20.143	-71.642	110.570	18.784	PK
6		0.127	35.428	16.595	-70.094	105.521	18.833	PK

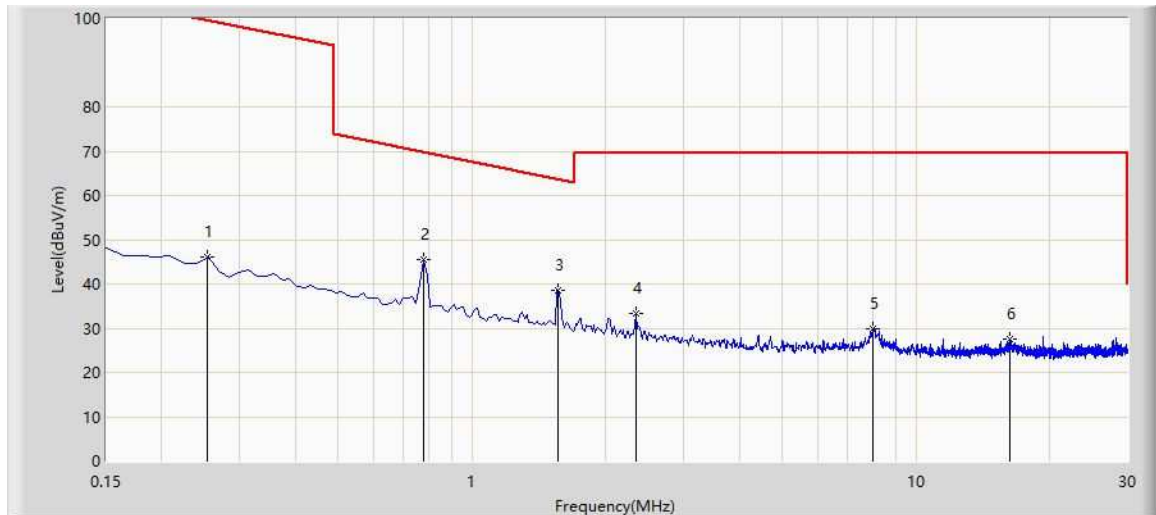
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: SIP-AC3	Test Date: 2023/11/23
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: FMZB1519B 9kHz-30MHz	Polarity: Coplanar
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 57.0 - 61.56 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		0.254	46.067	27.451	-53.437	99.504	18.616	PK
2	*	0.777	45.438	26.387	-24.369	69.807	19.050	PK
3		1.568	38.545	19.476	-25.181	63.726	19.069	PK
4		2.344	33.276	14.164	-36.224	69.500	19.113	PK
5		7.986	29.733	10.854	-39.767	69.500	18.879	PK
6		16.299	27.505	8.699	-41.995	69.500	18.805	PK

Note 1: " * ", means this data is the worst emission level.

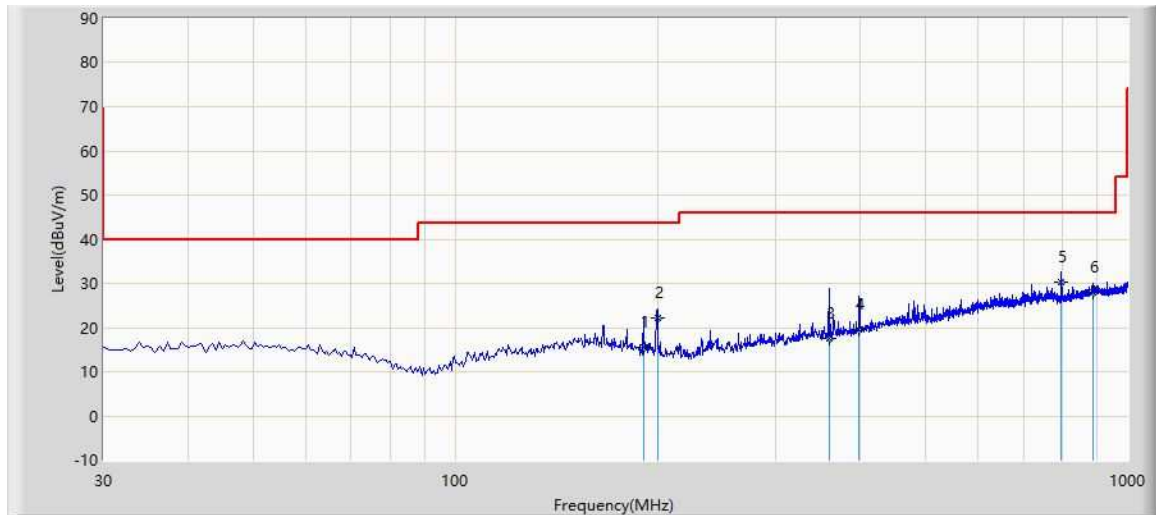
Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

30MHz - 1GHz

Site: SIP-AC3	Test Date: 2023/11/23
Limit: FCC Part15.249_RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168_00997_25-2000MHz	Polarity: Horizontal
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 57.0 - 61.56 GHz	



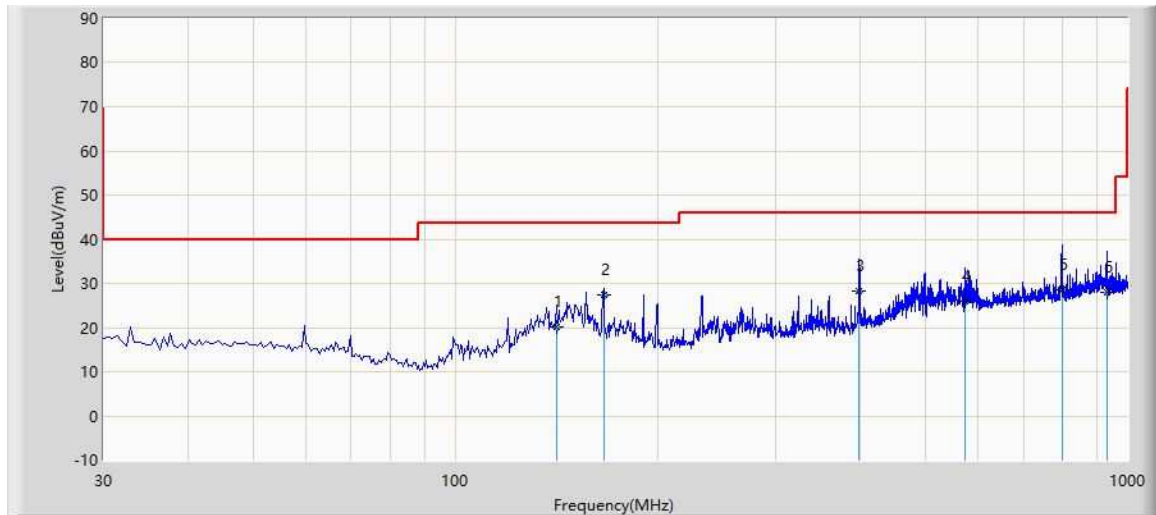
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		190.535	15.576	0.200	-27.924	43.500	15.376	QP
2		199.750	22.118	7.200	-21.382	43.500	14.918	QP
3		359.800	17.665	-2.100	-28.335	46.000	19.765	QP
4		398.600	19.532	-1.300	-26.468	46.000	20.832	QP
5	*	797.270	30.248	2.300	-15.752	46.000	27.948	QP
6		889.420	28.091	-1.500	-17.909	46.000	29.591	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023/11/23
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168 00997 25-2000MHz	Polarity: Vertical
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 57.0 - 61.56 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		141.550	20.191	2.500	-23.309	43.500	17.691	QP
2	*	166.285	27.523	9.700	-15.977	43.500	17.823	QP
3		398.600	28.232	7.400	-17.768	46.000	20.832	QP
4		572.715	25.892	1.400	-20.108	46.000	24.492	QP
5		799.695	28.420	0.500	-17.580	46.000	27.921	QP
6		931.130	28.001	-1.400	-17.999	46.000	29.401	QP

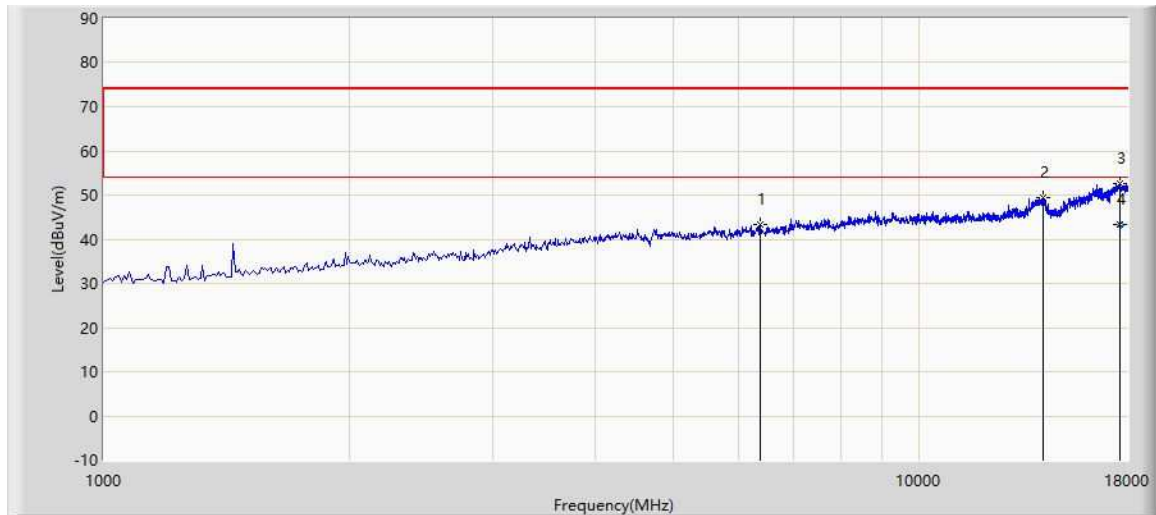
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

1GHz - 18GHz

Site: SIP-AC3	Test Date: 2023/11/23
Limit: FCC Part15.249_RSE(3m)	Engineer: Barry Wu
Probe: HF907_102861_1-18GHz	Polarity: Horizontal
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 57.0 - 61.56 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		6380.500	43.250	49.706	-30.750	74.000	-6.456	PK
2		14166.500	49.509	46.107	-24.491	74.000	3.403	PK
3		17617.500	52.590	44.669	-21.410	74.000	7.923	PK
4	*	17617.500	43.221	35.300	-10.779	54.000	7.923	AV

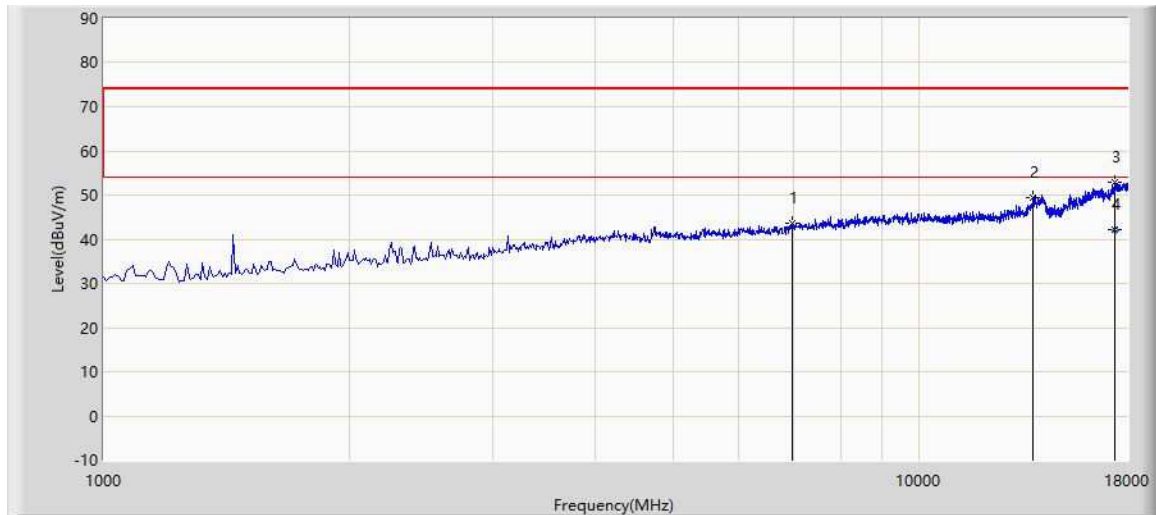
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Test Date: 2023/11/23
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz	Polarity: Vertical
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 57.0 - 61.56 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		6992.500	43.613	48.964	-30.387	74.000	-5.350	PK
2		13792.500	49.500	47.424	-24.500	74.000	2.077	PK
3		17345.500	52.826	45.322	-21.174	74.000	7.505	PK
4	*	17345.500	42.305	34.800	-11.695	54.000	7.505	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

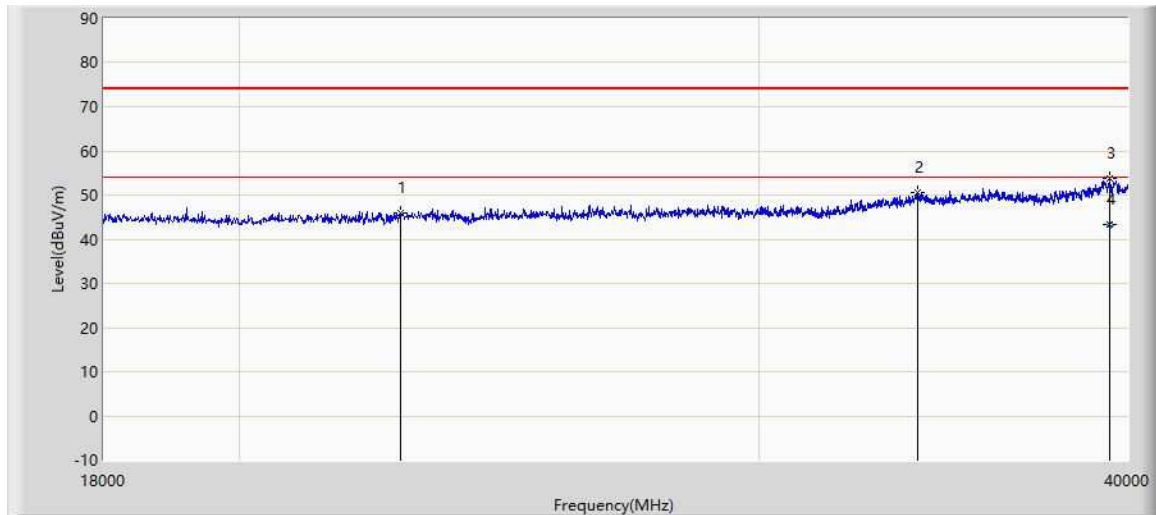
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Prüfbericht - Produkte
Test Report - Products

18GHz - 40GHz

Site: SIP-AC3	Test Date: 2023/11/24 - 00:39
Limit: FCC Part15.249_RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz-New	Polarity: Horizontal
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 57.0 - 61.56 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		22697.000	45.981	54.313	-28.019	74.000	-8.333	PK
2		33961.000	50.547	56.980	-23.453	74.000	-6.434	PK
3		39428.000	53.778	52.752	-20.222	74.000	1.026	PK
4	*	39428.000	43.256	42.230	-10.744	54.000	1.026	AV

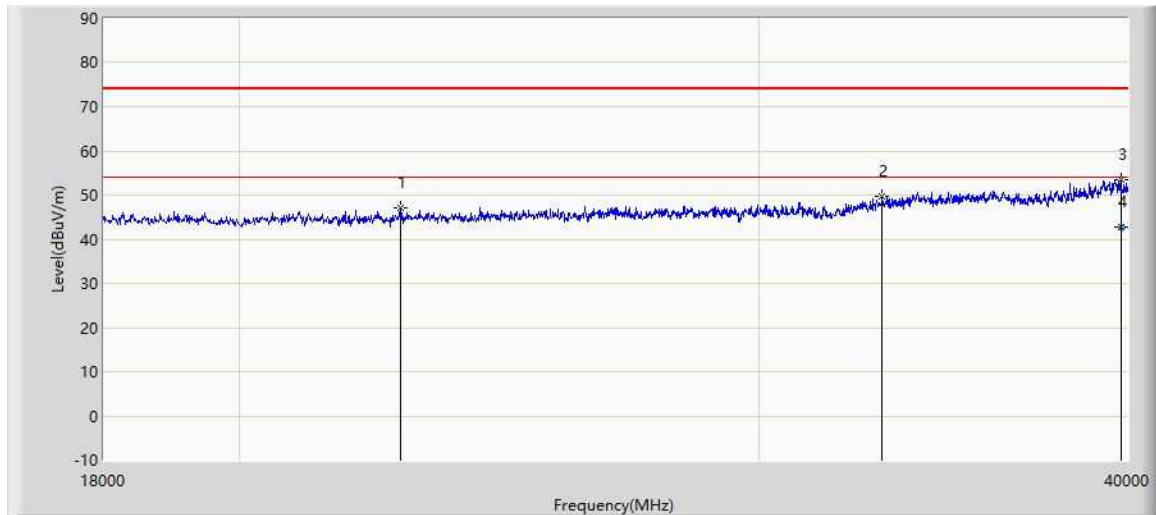
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Test Date: 2023/11/24 - 00:41
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170 00935 18-40GHz-New	Polarity: Vertical
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 57.0 - 61.56 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		22686.000	47.191	55.641	-26.809	74.000	-8.450	PK
2		33026.000	49.665	58.087	-24.335	74.000	-8.422	PK
3		39802.000	53.380	53.338	-20.620	74.000	0.042	PK
4	*	39802.000	42.642	42.600	-11.358	54.000	0.042	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

40GHz - 200GHz

Frequency (GHz)	Reading Level @ 0.7m (dBµV)	Factor (dB)	Measure Level @ 0.7m (dBµV/m)	Measure Level @ 3m (dBµV/m)	Power Density (pW/cm²)	Limit (pW/cm²)	Polarities	Result
49.2135	49.52	45.78	95.30	82.66	48.93	90.00	Horizontal	Pass
49.972	49.25	46.27	95.52	82.88	51.48	90.00	Vertical	Pass
60.3495	25.58	41.48	67.06	54.42	0.07	90.00	Horizontal	Pass
62.0075	24.58	41.29	65.87	53.23	0.06	90.00	Vertical	Pass
81.127	34.57	44.20	78.77	66.13	1.09	90.00	Horizontal	Pass
82.8845	35.15	44.27	79.42	66.78	1.26	90.00	Vertical	Pass
132.553	14.65	57.37	72.02	59.38	0.23	90.00	Horizontal	Pass
110.366	15.33	58.06	73.39	60.75	0.32	90.00	Vertical	Pass
183.2522	11.58	60.58	72.16	59.52	0.24	90.00	Horizontal	Pass
194.9414	12.37	61.36	73.73	61.09	0.34	90.00	Vertical	Pass

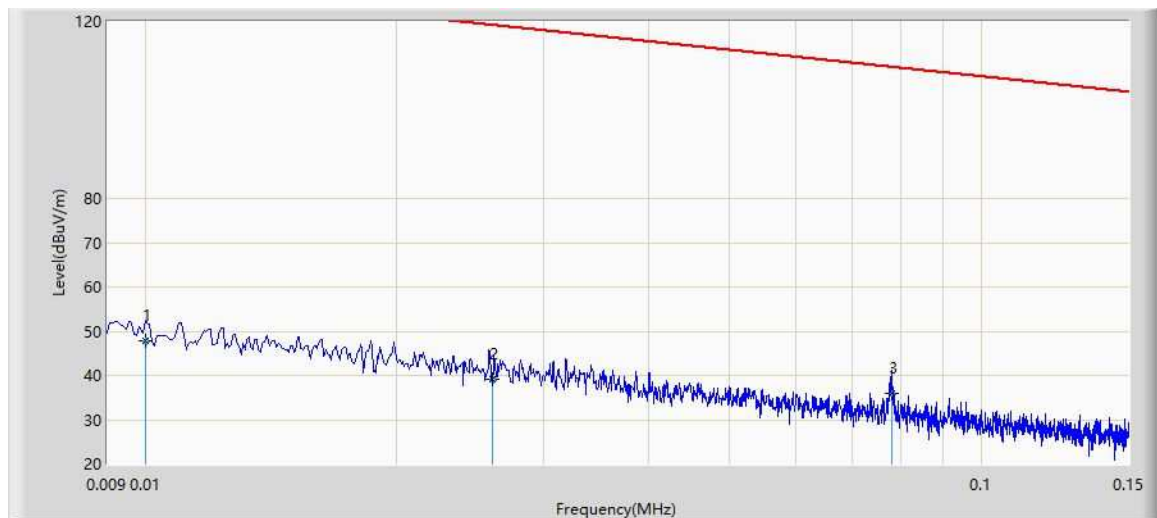
Note:

- Measure Level @ 0.7m = Reading Level @0.7m + Factor
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) + Mixer Conversion Loss (dB)
- Measure Level @ 3m = Measure Level @ 0.7m + 20 * log(1m / 3m)
- Power Density = $(10^8 / 377) * \{10^{[(\text{Measure Level @3m} - 120) / 20]}\}^2$

Appendix A.1.2 Operation Frequency Range 61 - 61.5 GHz

9kHz - 30MHz

Site: SIP-AC3	Time: 2023/09/04 - 17:16
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: FMZB1519B 9kHz-30MHz	Polarity: Coaxial
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 61 - 61.5 GHz	



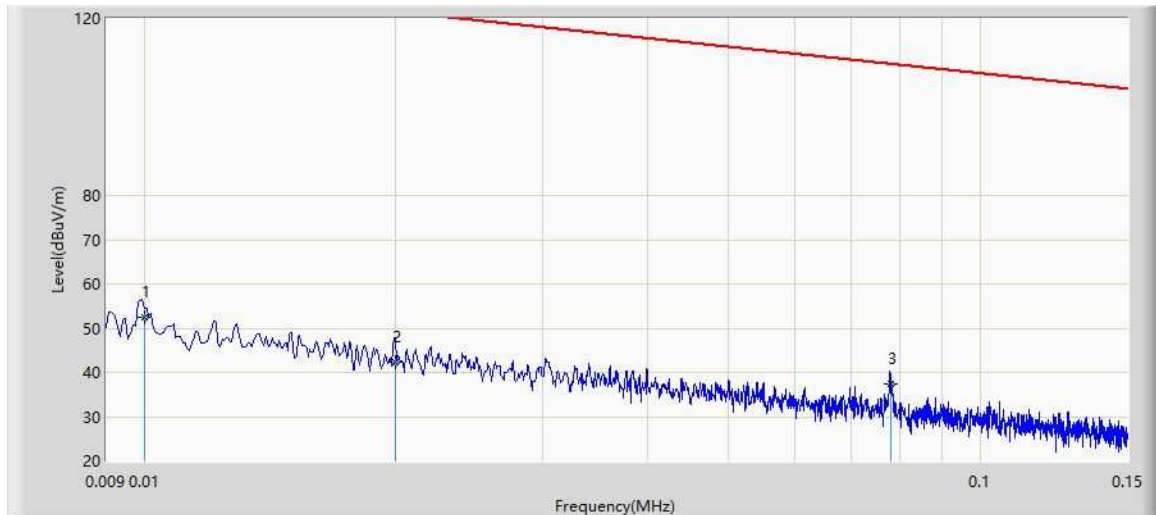
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		0.010	47.957	27.900	-79.628	127.585	20.057	QP
2		0.026	39.217	19.800	-80.074	119.290	19.417	QP
3	*	0.078	36.081	17.300	-73.672	109.753	18.782	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Time: 2023/09/04 - 17:19
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: FMZB1519B 9kHz-30MHz	Polarity: Coaxial
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 61 - 61.5 GHz	



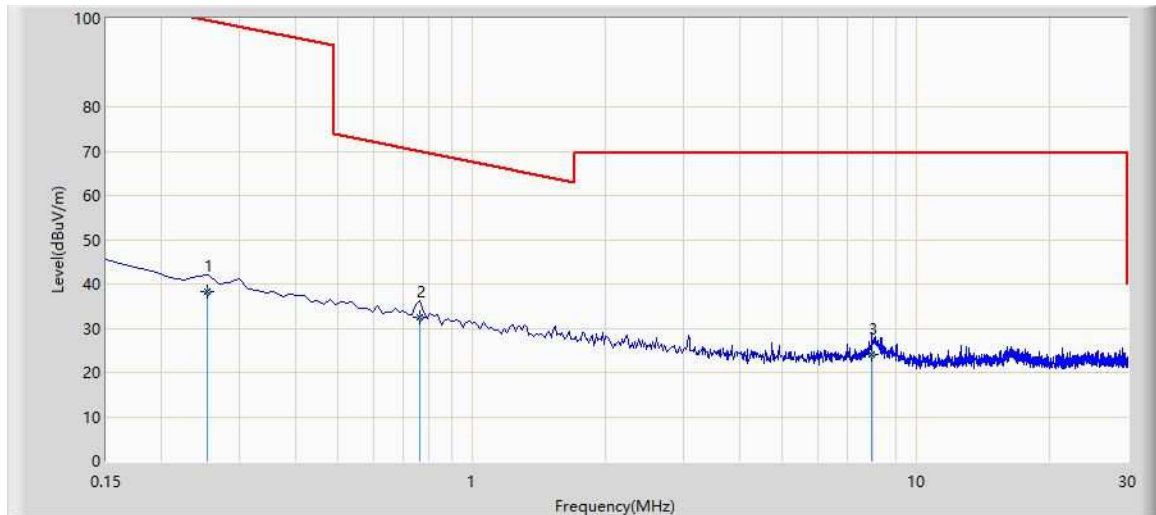
No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		0.010	52.557	32.500	-75.028	127.585	20.057	QP
2		0.020	42.257	22.600	-79.311	121.568	19.657	QP
3	*	0.078	37.381	18.600	-72.372	109.753	18.782	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Time: 2023/09/04 - 17:25
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: FMZB1519B 9kHz-30MHz	Polarity: Coplanar
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 61 - 61.5 GHz	



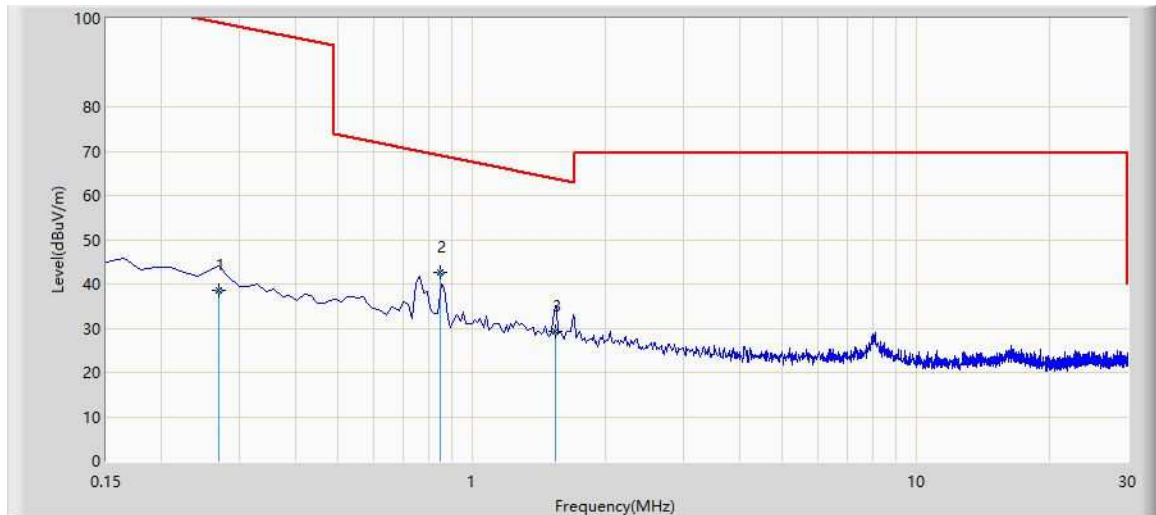
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.254	38.216	19.600	-61.288	99.504	18.616	QP
2	*	0.762	32.353	13.300	-37.623	69.976	19.052	QP
3		7.956	24.117	5.300	-45.383	69.500	18.817	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Time: 2023/09/04 - 17:31
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: FMZB1519B 9kHz-30MHz	Polarity: Coplanar
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 61 - 61.5 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		0.269	38.510	19.900	-60.496	99.006	18.610	QP
2	*	0.851	42.653	23.600	-26.366	69.019	19.053	QP
3		1.538	29.269	10.200	-34.624	63.893	19.069	QP

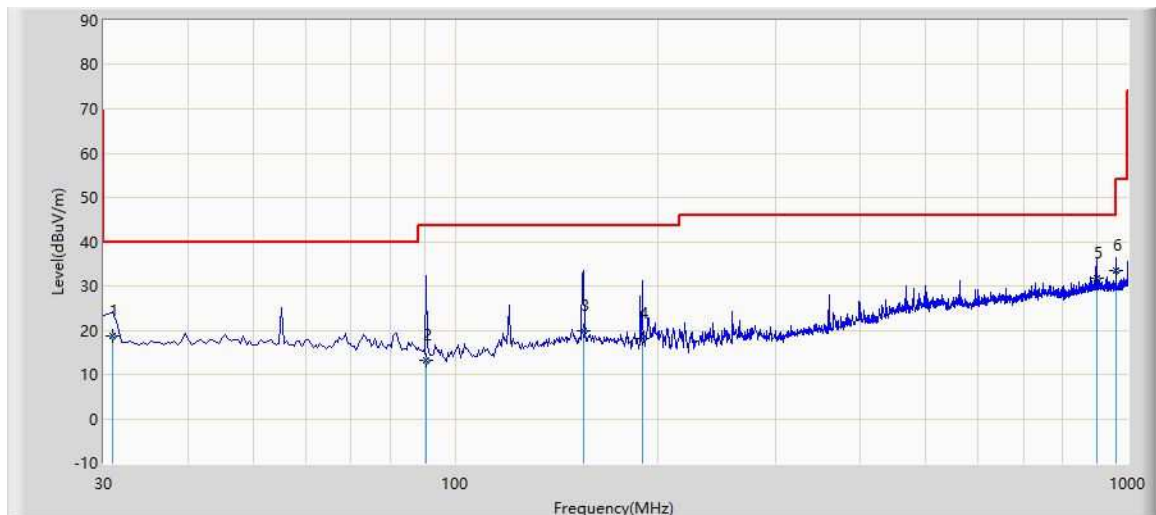
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

30MHz - 1GHz

Site: SIP-AC3	Time: 2023/08/17 - 10:33
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168 00997 25-2000MHz	Polarity: Horizontal
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 61 - 61.5 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		30.970	18.787	2.300	-21.213	40.000	16.487	QP
2		90.625	13.295	1.100	-30.205	43.500	12.195	QP
3		155.130	19.751	1.600	-23.749	43.500	18.151	QP
4		189.565	18.076	2.600	-25.424	43.500	15.476	QP
5	*	898.635	31.864	2.100	-14.136	46.000	29.764	QP
6		960.230	33.622	4.100	-20.378	54.000	29.522	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Time: 2023/08/17 - 10:39
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168 00997 25-2000MHz	Polarity: Vertical
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 61 - 61.5 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		30.485	27.427	11.000	-12.573	40.000	16.427	QP
2		431.095	27.392	5.600	-18.608	46.000	21.792	QP
3		642.070	29.526	3.100	-16.474	46.000	26.426	QP
4		700.270	29.000	2.200	-17.000	46.000	26.800	QP
5	*	897.180	37.259	7.500	-8.741	46.000	29.759	QP
6		1000.000	32.727	2.600	-21.273	54.000	30.127	QP

Note 1: " * ", means this data is the worst emission level.

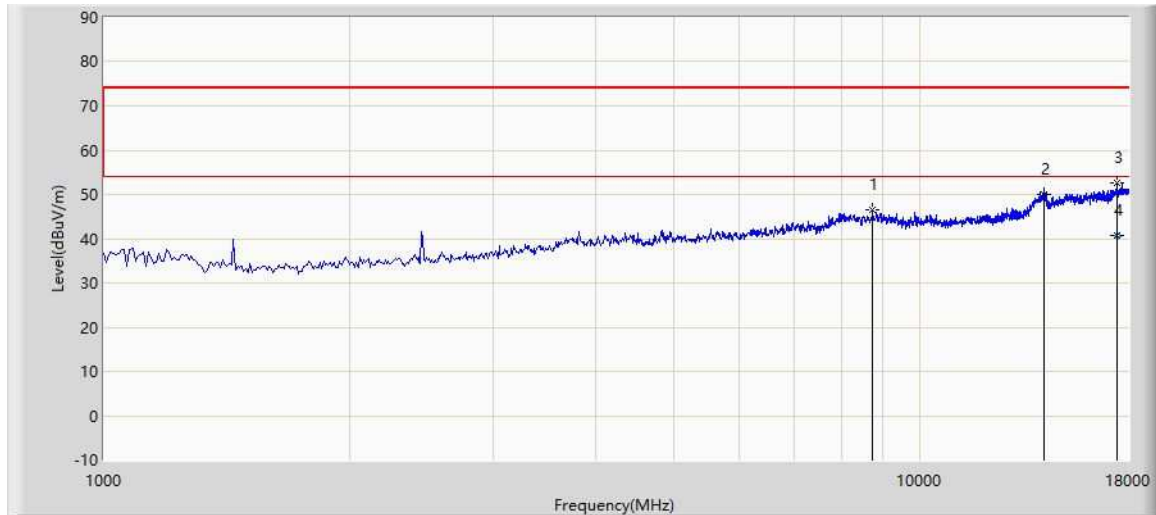
Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Prüfbericht - Produkte
Test Report - Products

1GHz - 18GHz

Site: SIP-AC3	Time: 2023/09/02 - 18:32
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz-AC3	Polarity: Horizontal
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 61 - 61.5 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		8735.000	46.406	48.483	-27.594	74.000	-2.077	PK
2		14166.500	50.068	46.666	-23.932	74.000	3.403	PK
3		17405.000	52.725	45.537	-21.275	74.000	7.188	PK
4	*	17405.000	40.788	33.600	-13.212	54.000	7.188	AV

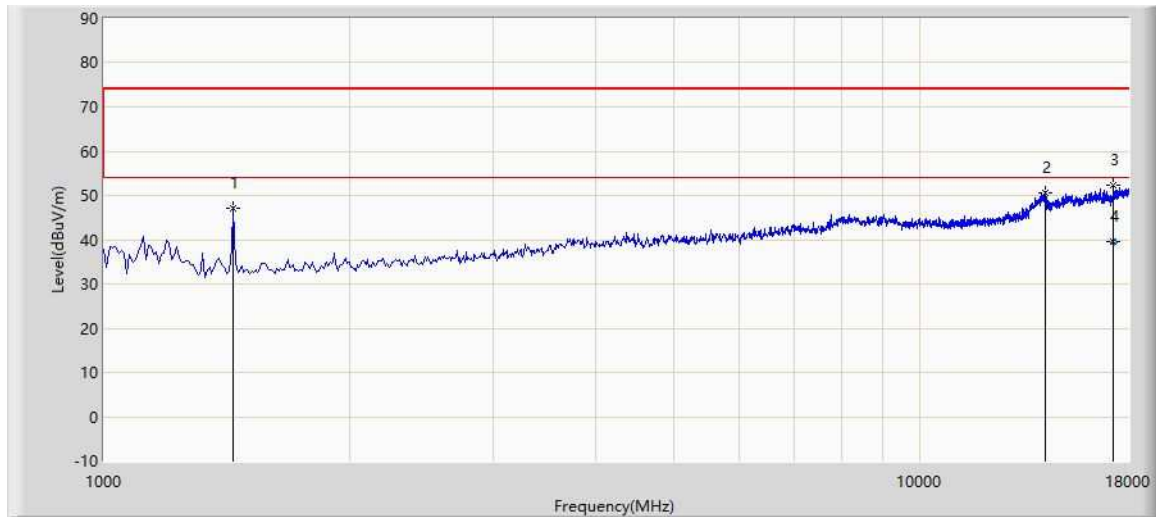
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Time: 2023/09/02 - 18:32
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz-AC3	Polarity: Vertical
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 61 - 61.5 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		1442.000	47.191	64.858	-26.809	74.000	-17.667	PK
2		14226.000	50.625	47.641	-23.375	74.000	2.984	PK
3		17226.500	52.410	45.310	-21.590	74.000	7.100	PK
4	*	17226.500	39.600	32.500	-14.400	54.000	7.100	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

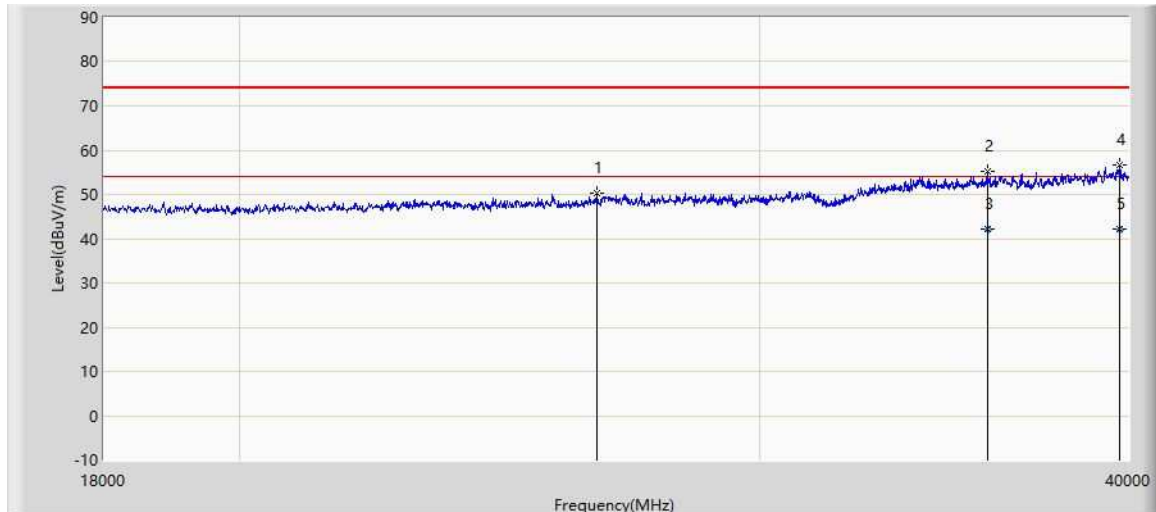
Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Prüfbericht - Produkte
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18GHz - 40GHz

Site: SIP-AC3	Time: 2023/09/02 - 18:33
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170 00935 18-40GHz	Polarity: Horizontal
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 61 - 61.5 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		26426.000	50.407	58.200	-23.593	74.000	-7.793	PK
2		35831.000	55.261	60.692	-18.739	74.000	-5.431	PK
3		35831.000	42.070	47.500	-11.930	54.000	-5.431	AV
4		39703.000	56.802	56.941	-17.198	74.000	-0.139	PK
5	*	39703.000	42.211	42.350	-11.789	54.000	-0.139	AV

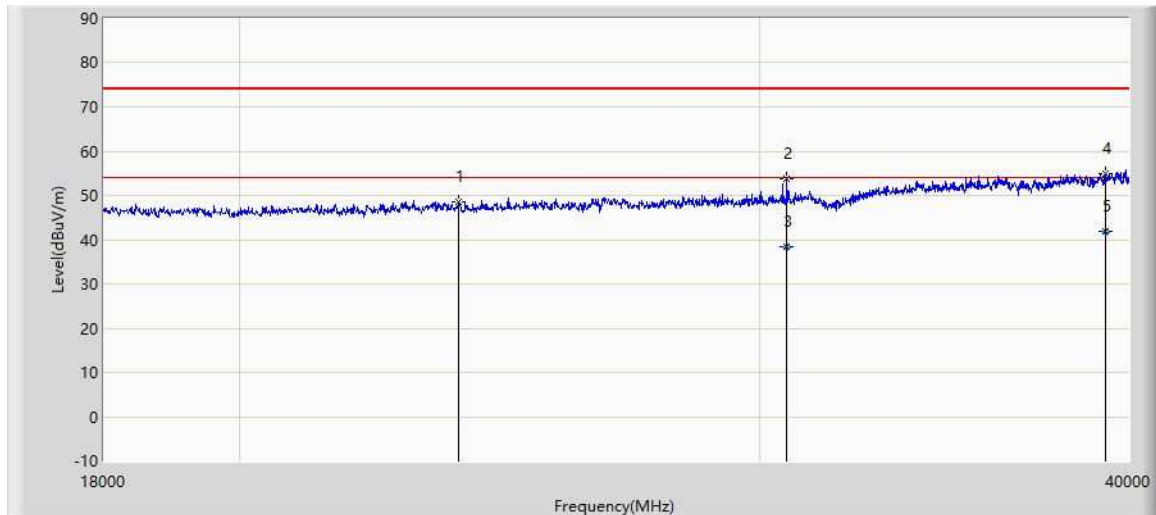
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Time: 2023/09/02 - 18:33
Limit: FCC Part15.249 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170 00935 18-40GHz	Polarity: Vertical
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 61 - 61.5 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		23731.000	48.651	56.938	-25.349	74.000	-8.287	PK
2		30650.000	53.648	62.426	-20.352	74.000	-8.778	PK
3		30650.000	38.422	47.200	-15.578	54.000	-8.778	AV
4		39274.000	54.871	54.353	-19.129	74.000	0.518	PK
5	*	39274.000	41.898	41.380	-12.102	54.000	0.518	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

40GHz - 200GHz

Frequency (GHz)	Reading Level @ 0.7m (dBμV)	Factor (dB/m)	Measure Level @ 0.7m (dBμV/m)	Measure Level @ 3m (dBμV/m)	Power Density (pW/cm ²)	Limit (pW/cm ²)	Polarities	Result
49.185	22.42	45.78	68.2	55.56	0.10	90	Horizontal	Pass
49.173	21.9	45.78	67.68	55.04	0.08	90	Vertical	Pass
60.8235	26.17	41.55	67.72	55.08	0.09	90	Horizontal	Pass
60.785	26.09	41.55	67.64	55.00	0.08	90	Vertical	Pass
85.6465	35.22	44.26	79.48	66.84	1.28	90	Horizontal	Pass
84.641	35.19	44.26	79.45	66.81	1.27	90	Vertical	Pass
131.0305	18.46	57.1	75.56	62.92	0.52	90	Horizontal	Pass
127.8525	19.06	57.64	76.7	64.06	0.68	90	Vertical	Pass
145.4234	15.64	60.48	76.12	63.48	0.59	90	Horizontal	Pass
171.284	15.42	60.28	75.7	63.06	0.54	90	Vertical	Pass

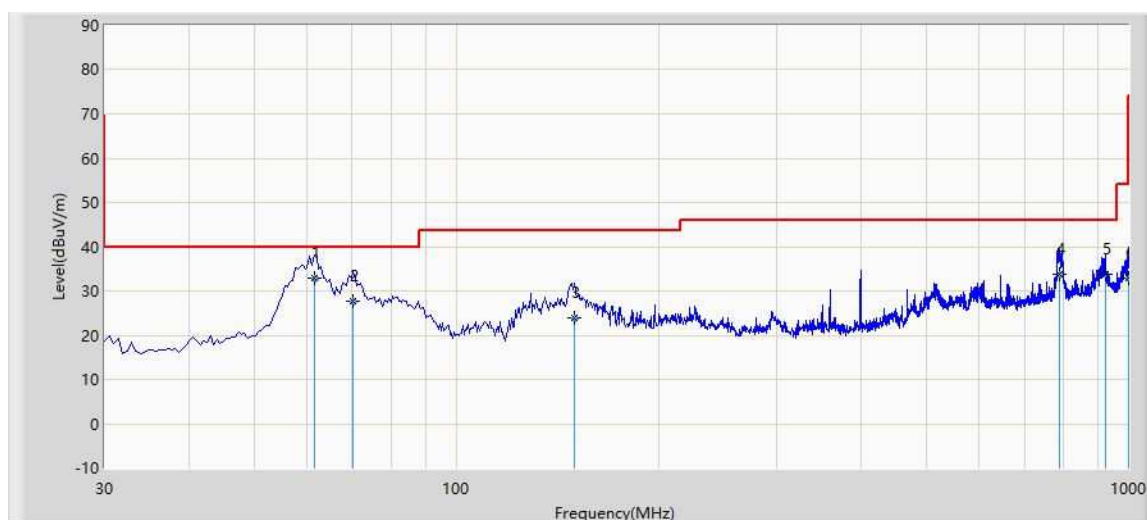
Note:

- Measure Level @ 0.7m = Reading Level @0.7m + Factor
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) + Mixer Conversion Loss (dB)
- Measure Level @ 3m = Measure Level @ 0.7m + 20 * log(0.7m / 3m)
- Power Density = $(10^8 / 377) * \{10^{[(\text{Measure Level @3m} - 120) / 20]}\}^2$

Appendix A.2: Test Results of Field strength of harmonics in HOST A

Appendix A.2.1 Operation Frequency Range 57.0 - 61.56 GHz

Site: SIP-AC1	Time: 2023/08/21 - 18:20
Limit: FCC_Part15.209_RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168_00998_25-2000MHz	Polarity: Horizontal
EUT: HOST A	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



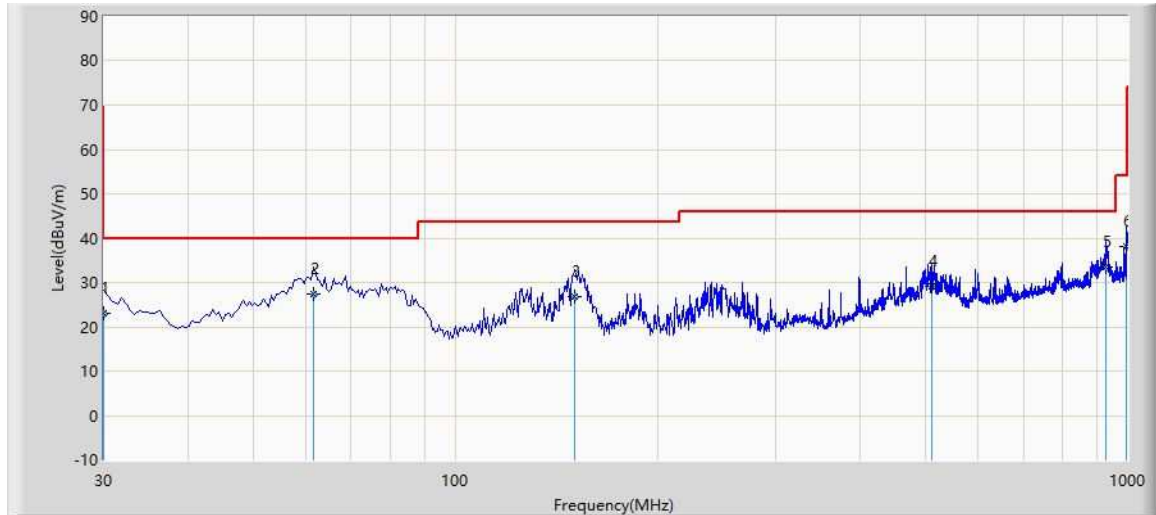
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	61.525	32.978	15.730	-7.022	40.000	17.248	QP
2		70.255	27.694	12.000	-12.306	40.000	15.694	QP
3		149.795	23.933	5.600	-19.567	43.500	18.333	QP
4		789.995	33.820	5.800	-12.180	46.000	28.020	QP
5		922.885	33.706	4.000	-12.294	46.000	29.706	QP
6		998.060	33.037	3.200	-20.963	54.000	29.837	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Time: 2023/08/21 - 18:25
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168_00998_25-2000MHz	Polarity: Vertical
EUT: HOST A	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



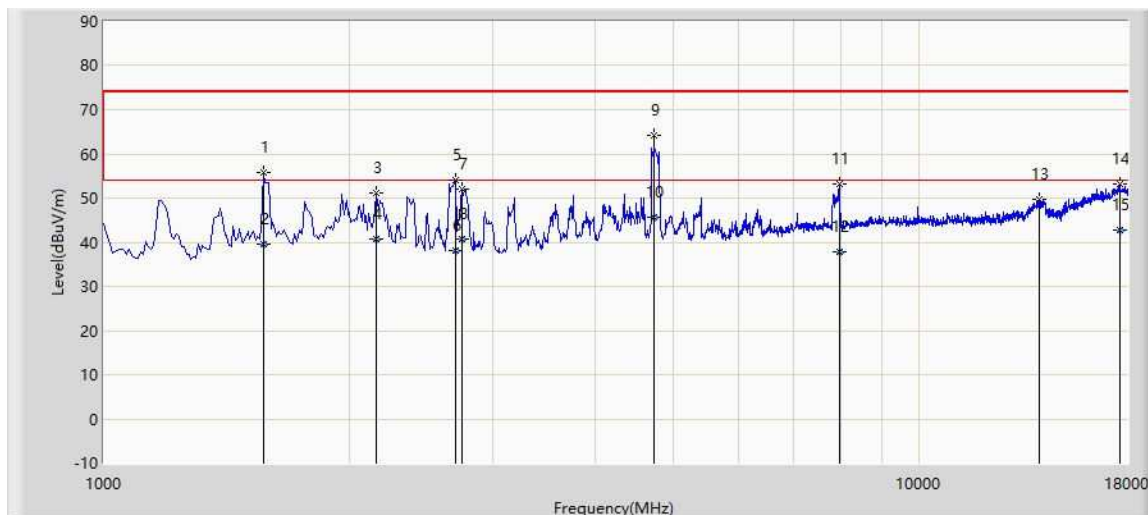
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		30.000	23.177	6.500	-16.823	40.000	16.677	QP
2		61.525	27.248	10.000	-12.752	40.000	17.248	QP
3		150.765	26.819	8.500	-16.681	43.500	18.319	QP
4		510.635	28.994	5.400	-17.006	46.000	23.594	QP
5	*	930.160	33.572	3.800	-12.428	46.000	29.771	QP
6		997.090	38.095	8.300	-15.905	54.000	29.795	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023/12/06
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz	Polarity: Horizontal
EUT: HOST A	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57.0GHz - 61.56GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		1569.500	55.855	72.565	-18.145	74.000	-16.709	PK
2		1569.500	39.571	56.280	-14.429	54.000	-16.709	AV
3		2156.000	51.251	65.651	-22.749	74.000	-14.400	PK
4		2156.000	40.750	55.150	-13.250	54.000	-14.400	AV
5		2700.000	54.191	66.786	-19.809	74.000	-12.595	PK
6		2700.000	38.235	50.830	-15.765	54.000	-12.595	AV
7		2751.000	52.158	65.293	-21.842	74.000	-13.135	PK
8		2751.000	40.645	53.780	-13.355	54.000	-13.135	AV
9		4731.500	64.331	71.800	-9.669	74.000	-7.468	PK
10	*	4731.500	45.791	53.260	-8.209	54.000	-7.468	AV
11		7987.000	53.174	56.892	-20.826	74.000	-3.718	PK
12		7987.000	37.832	41.550	-16.168	54.000	-3.718	AV
13		14039.000	49.788	47.116	-24.212	74.000	2.672	PK
14		17609.000	53.166	45.293	-20.834	74.000	7.873	PK
15		17609.000	42.673	34.800	-11.327	54.000	7.873	AV

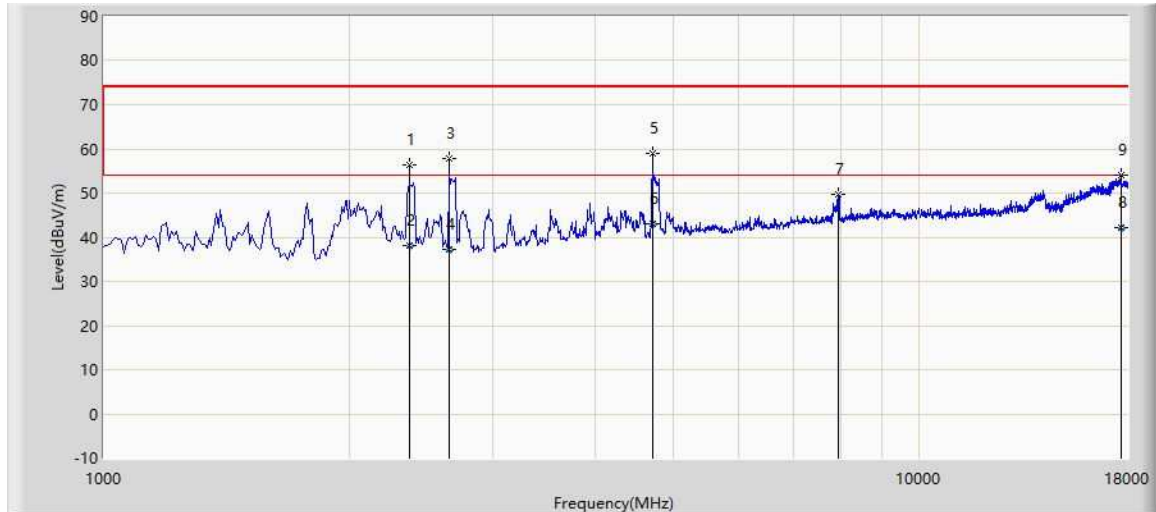
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Test Date: 2023/12/06
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz	Polarity: Vertical
EUT: HOST A	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57.0GHz - 61.56GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		2368.500	56.408	70.120	-17.592	74.000	-13.712	PK
2		2368.500	37.988	51.700	-16.012	54.000	-13.712	AV
3		2649.000	57.788	70.460	-16.212	74.000	-12.672	PK
4		2649.000	37.158	49.830	-16.842	54.000	-12.672	AV
5		4714.500	59.114	66.830	-14.886	74.000	-7.716	PK
6	*	4714.500	43.084	50.800	-10.916	54.000	-7.716	AV
7		7953.000	49.626	53.640	-24.374	74.000	-4.014	PK
8		17685.000	42.125	34.810	-11.875	54.000	7.315	AV
9		17685.000	53.952	46.629	-20.048	74.000	7.322	PK

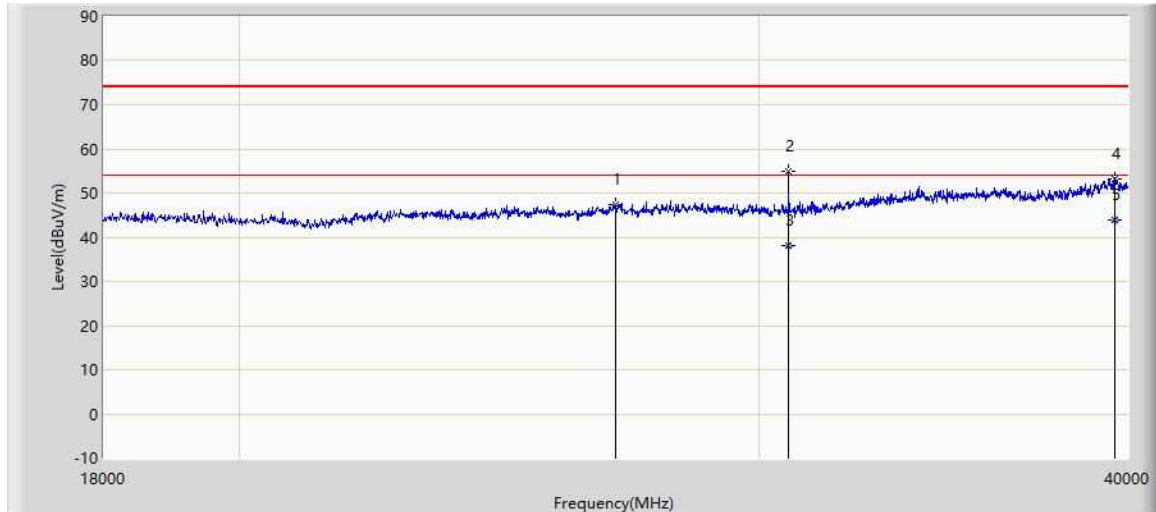
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Test Date: 2023/12/06
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz-New	Polarity: Horizontal
EUT: HOST A	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57.0GHz - 61.56GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		26822.000	47.507	55.366	-26.493	74.000	-7.859	PK
2		30716.000	54.957	63.840	-19.043	74.000	-8.883	PK
3		30716.000	37.987	46.870	-16.013	54.000	-8.883	AV
4		39593.000	53.320	52.410	-20.680	74.000	0.909	PK
5	*	39593.000	43.809	42.900	-10.191	54.000	0.909	AV

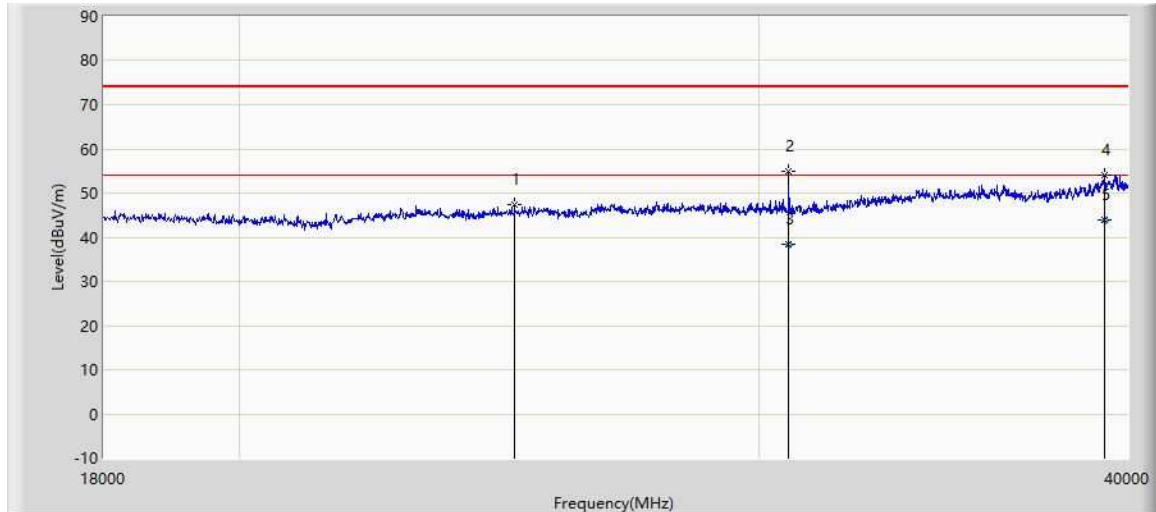
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Test Date: 2023/12/06
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz-New	Polarity: Vertical
EUT: HOST A	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57.0GHz - 61.56GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		24798.000	47.521	55.528	-26.479	74.000	-8.007	PK
2		30716.000	55.027	63.910	-18.973	74.000	-8.883	PK
3		30716.000	38.387	47.270	-15.613	54.000	-8.883	AV
4		39285.000	54.016	53.024	-19.984	74.000	0.992	PK
5	*	39285.000	43.812	42.820	-10.188	54.000	0.992	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Above 40GHz

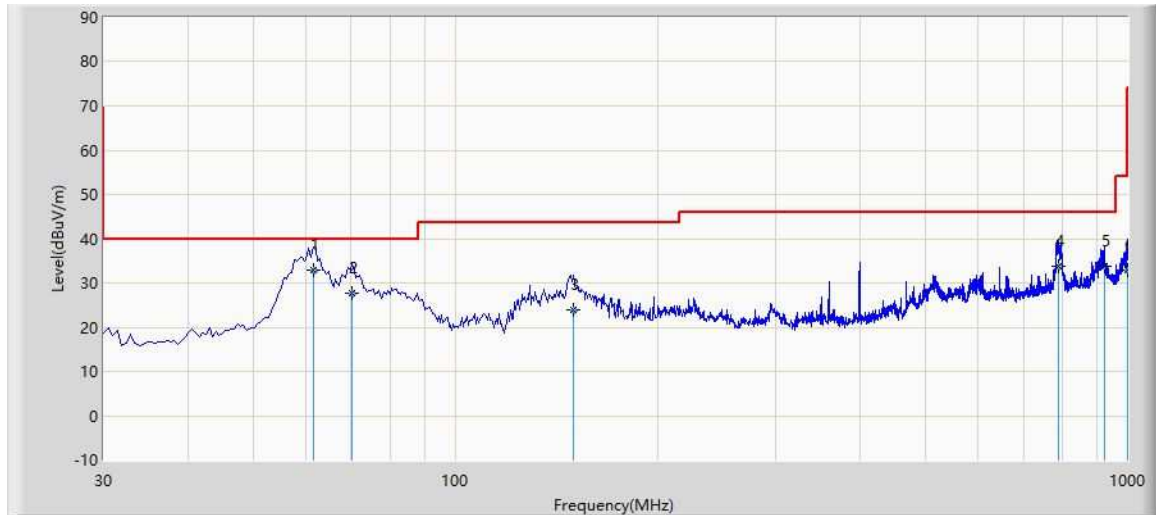
Frequency (GHz)	Reading Level @ 1m (dBμV)	Factor (dB)	Measure Level @ 1m (dBμV/m)	Measure Level @ 3m (dBμV/m)	Power Density (pW/cm ²)	Limit (pW/cm ²)	Polarities	Result
49.2585	22.02	45.78	67.80	58.26	0.18	90.00	Horizontal	Pass
48.1095	21.78	46.14	67.92	58.38	0.18	90.00	Vertical	Pass
55.003	23.96	41.35	65.31	55.77	0.10	90.00	Horizontal	Pass
62.081	25.00	41.29	66.29	56.75	0.13	90.00	Vertical	Pass
81.904	34.52	44.28	78.80	69.26	2.24	90.00	Horizontal	Pass
82.917	34.75	44.19	78.94	69.40	2.31	90.00	Vertical	Pass
136.537	10.83	56.91	67.74	58.20	0.18	90.00	Horizontal	Pass
123.004	10.70	58.01	68.71	59.17	0.22	90.00	Vertical	Pass
173.0828	12.19	60.13	72.32	62.78	0.50	90.00	Horizontal	Pass
157.1468	12.59	59.66	72.25	62.71	0.49	90.00	Vertical	Pass

Note:

1. Measure Level @ 1m = Reading Level @1m + Factor
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) + Mixer Conversion Loss (dB)
2. Measure Level @ 3m = Measure Level @ 1m + 20 * log(1m / 3m)
3. Power Density = $(10^8 / 377) * \{10^{[(\text{Measure Level @3m} - 120) / 20]}\}^2$

Appendix A.2.2 Operation Frequency Range 61 - 61.5 GHz

Site: SIP-AC1	Time: 2023/08/21 - 18:20
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168 00998 25-2000MHz	Polarity: Horizontal
EUT: HOST A	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



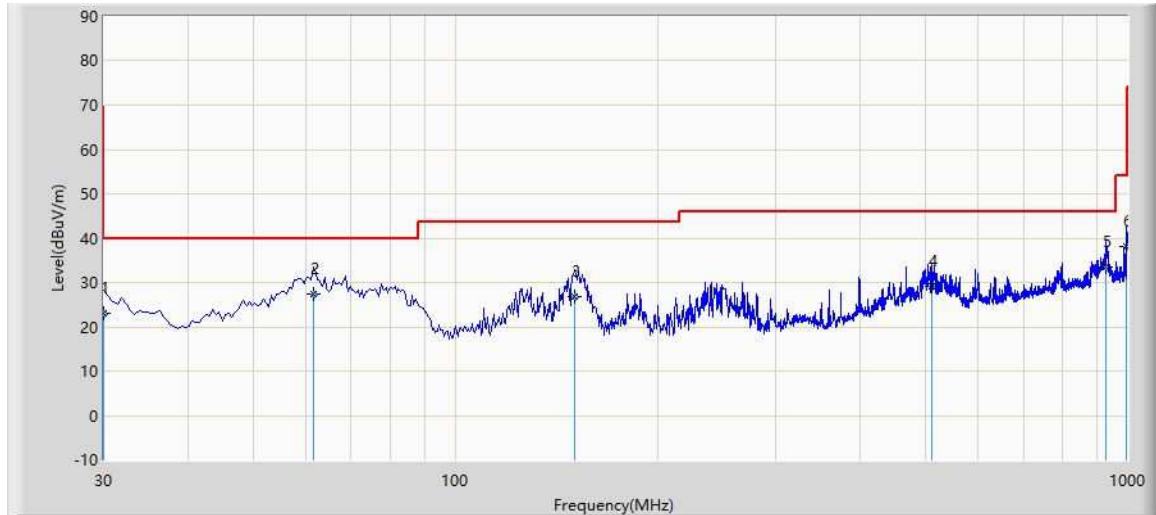
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	61.525	32.978	15.730	-7.022	40.000	17.248	QP
2		70.255	27.694	12.000	-12.306	40.000	15.694	QP
3		149.795	23.933	5.600	-19.567	43.500	18.333	QP
4		789.995	33.820	5.800	-12.180	46.000	28.020	QP
5		922.885	33.706	4.000	-12.294	46.000	29.706	QP
6		998.060	33.037	3.200	-20.963	54.000	29.837	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Time: 2023/08/21 - 18:25
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168_00998_25-2000MHz	Polarity: Vertical
EUT: HOST A	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



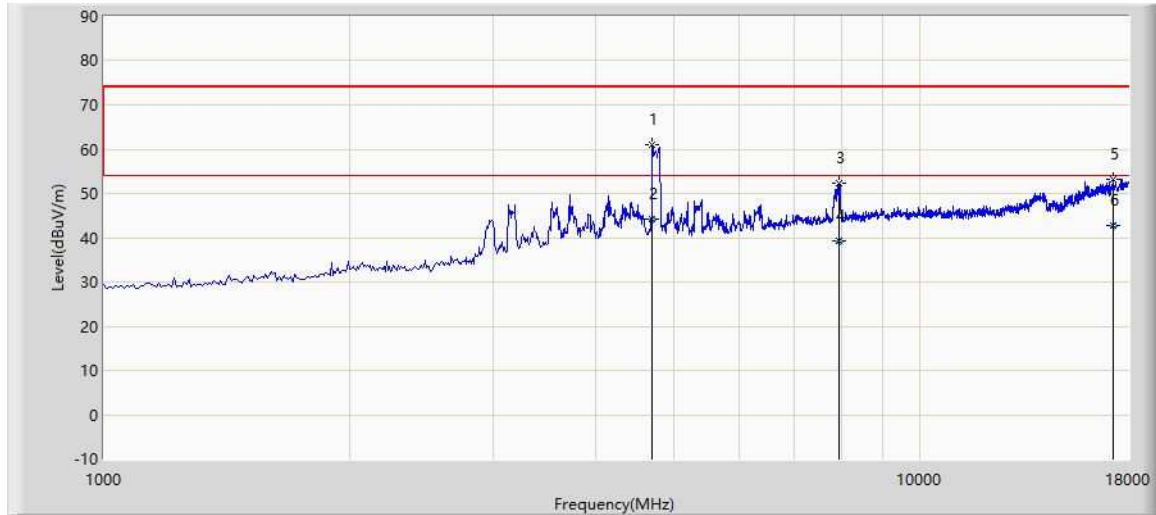
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		30.000	23.177	6.500	-16.823	40.000	16.677	QP
2		61.525	27.248	10.000	-12.752	40.000	17.248	QP
3		150.765	26.819	8.500	-16.681	43.500	18.319	QP
4		510.635	28.994	5.400	-17.006	46.000	23.594	QP
5	*	930.160	33.572	3.800	-12.428	46.000	29.771	QP
6		997.090	38.095	8.300	-15.905	54.000	29.795	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Time: 2023/08/28 - 13:40
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz-AC3	Polarity: Horizontal
EUT: HOST A	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



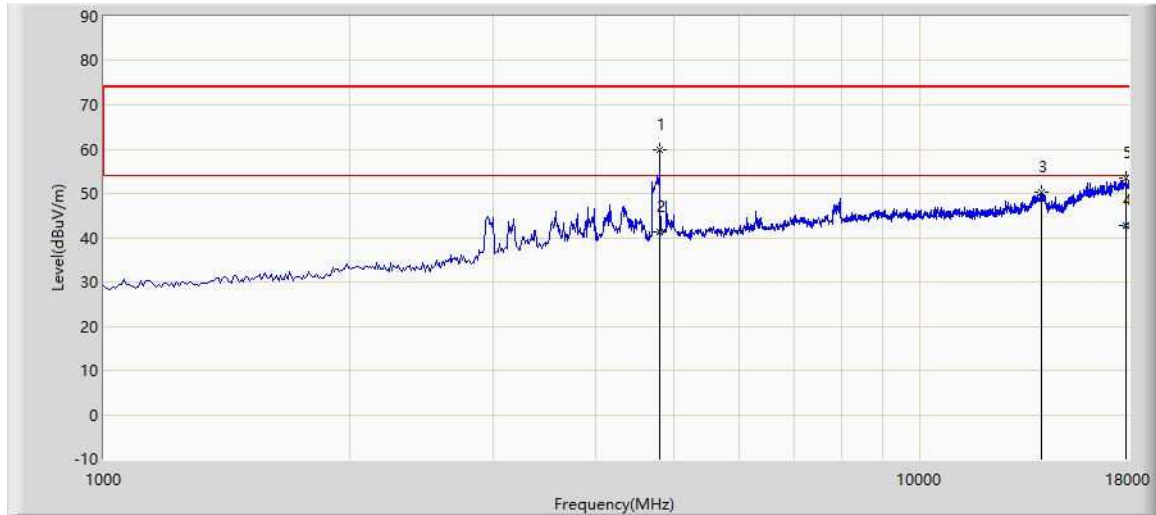
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		4697.500	60.888	68.778	-13.112	74.000	-7.890	PK
2	*	4697.500	44.230	52.120	-9.770	54.000	-7.890	AV
3		7961.500	52.247	56.263	-21.753	74.000	-4.017	PK
4		7961.500	39.184	43.200	-14.816	54.000	-4.017	AV
5		17252.000	53.195	45.682	-20.805	74.000	7.513	PK
6		17252.000	42.733	35.220	-11.267	54.000	7.513	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Time: 2023/08/28 - 13:42
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz-AC3	Polarity: Vertical
EUT: HOST A	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		4791.000	59.852	67.700	-14.148	74.000	-7.848	PK
2		4791.000	41.442	49.290	-12.558	54.000	-7.848	AV
3		14064.500	50.162	47.240	-23.838	74.000	2.921	PK
4	*	17855.000	42.769	34.840	-11.231	54.000	7.928	AV
5		17855.500	53.384	45.459	-20.616	74.000	7.925	PK

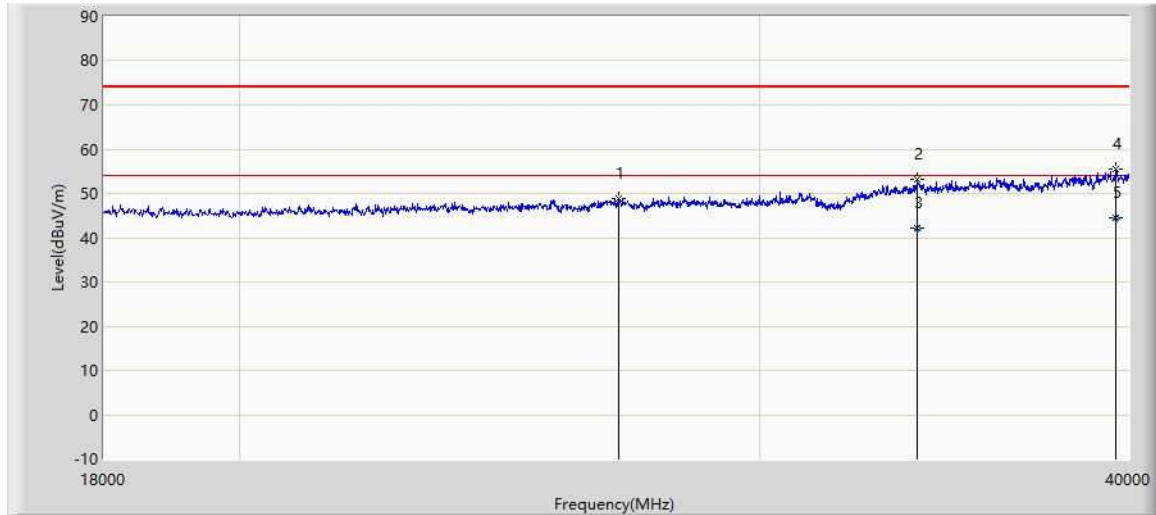
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Time: 2023/08/28 - 19:24
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz	Polarity: Horizontal
EUT: HOST A	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		26899.000	48.965	56.536	-25.035	74.000	-7.570	PK
2		33939.000	53.149	59.423	-20.851	74.000	-6.273	PK
3		33939.000	42.126	48.400	-11.874	54.000	-6.273	AV
4		39615.000	55.572	54.973	-18.428	74.000	0.600	PK
5	*	39615.000	44.359	43.760	-9.641	54.000	0.600	AV

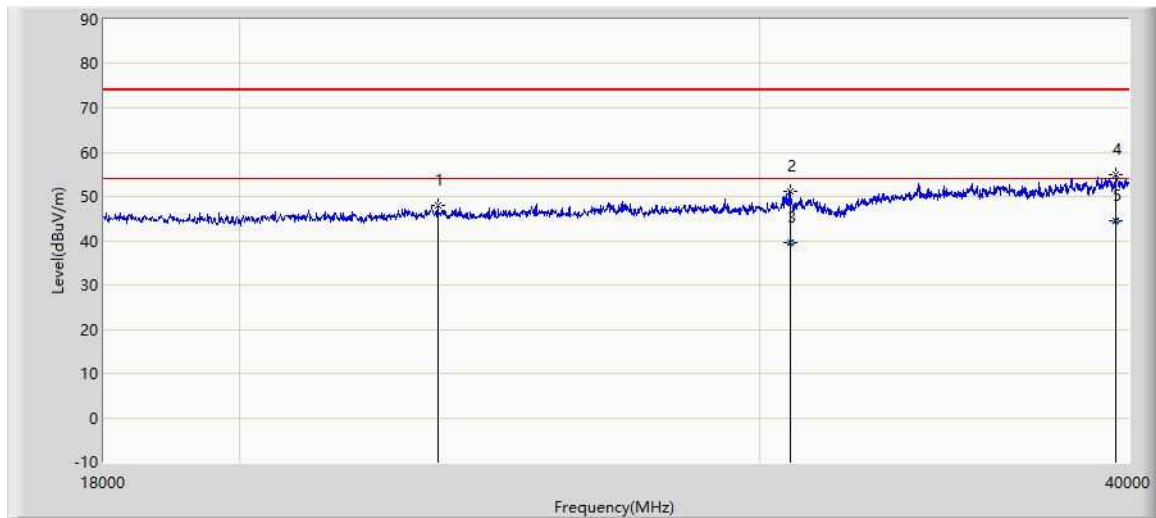
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Time: 2023/08/28 - 19:37
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz	Polarity: Vertical
EUT: HOST A	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		23346.000	47.991	56.169	-26.009	74.000	-8.178	PK
2		30738.000	51.074	59.834	-22.926	74.000	-8.760	PK
3		30738.000	39.440	48.200	-14.560	54.000	-8.760	AV
4		39615.000	54.812	54.213	-19.188	74.000	0.600	PK
5	*	39615.000	44.399	43.800	-9.601	54.000	0.600	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Above 40GHz

Frequency (GHz)	Reading Level @ 1m (dBμV)	Factor (dB)	Measure Level @ 1m (dBμV/m)	Measure Level @ 3m (dBμV/m)	Power Density (pW/cm ²)	Limit (pW/cm ²)	Polarities	Result
49.229	22.41	45.78	68.19	58.65	0.19	90	Horizontal	Pass
49.2085	22.69	45.78	68.47	58.93	0.21	90	Vertical	Pass
60.7875	25.82	41.55	67.37	57.83	0.16	90	Horizontal	Pass
61.817	25.32	41.27	66.59	57.05	0.13	90	Vertical	Pass
85.986	34.35	44.19	78.54	69.00	2.11	90	Horizontal	Pass
83.404	34.84	44.23	79.07	69.53	2.38	90	Vertical	Pass
112.1245	15.95	58.5	74.45	64.91	0.82	90	Horizontal	Pass
111.122	15.23	58.43	73.66	64.12	0.68	90	Vertical	Pass
162.5072	16.12	60.3	76.42	66.88	1.29	90	Horizontal	Pass
154.0706	15.69	61.07	76.76	67.22	1.40	90	Vertical	Pass

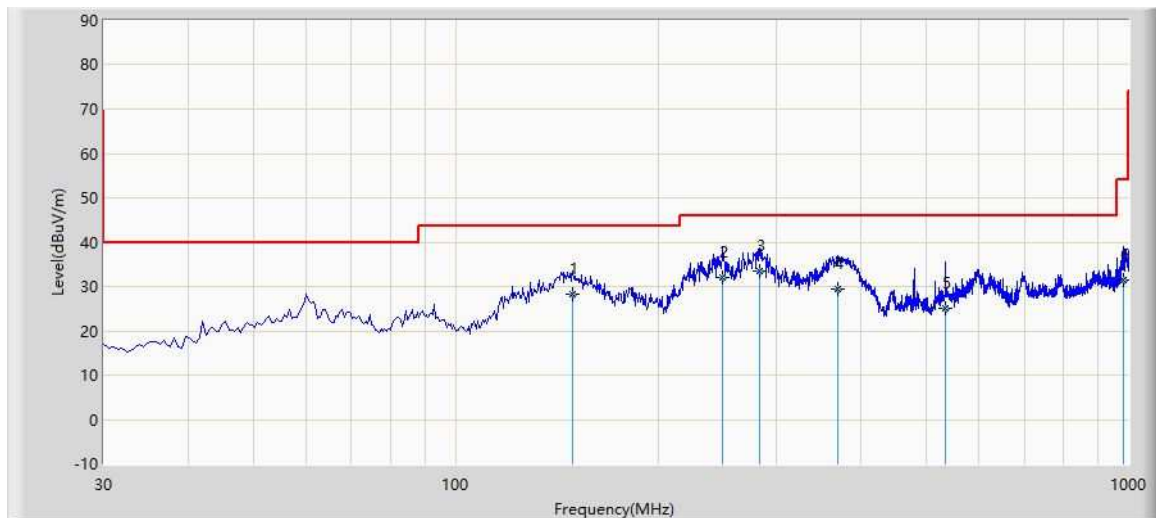
Note:

1. Measure Level @ 1m = Reading Level @1m + Factor
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) + Mixer Conversion Loss (dB)
2. Measure Level @ 3m = Measure Level @ 1m + 20 * log(1m / 3m)
3. Power Density = $(10^8 / 377) * \{10^{[(\text{Measure Level @3m} - 120) / 20]}\}^2$

Appendix A.3: Test Results of Field strength of harmonics in HOST B

Appendix A.3.1 Operation Frequency Range 57.0 - 61.56 GHz

Site: SIP-AC3	Test Date: 2023/12/13
Limit: FCC Part 15.209_RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168_00997_25-2000MHz	Polarity: Horizontal
EUT: HOST B	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57 - 61.56GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		149.310	28.399	10.400	-15.101	43.500	17.999	QP
2		249.220	31.952	15.100	-14.048	46.000	16.852	QP
3	*	282.685	33.616	15.500	-12.384	46.000	18.116	QP
4		369.985	29.432	9.200	-16.568	46.000	20.233	QP
5		534.400	25.166	1.400	-20.834	46.000	23.766	QP
6		982.540	31.526	1.700	-22.474	54.000	29.826	QP

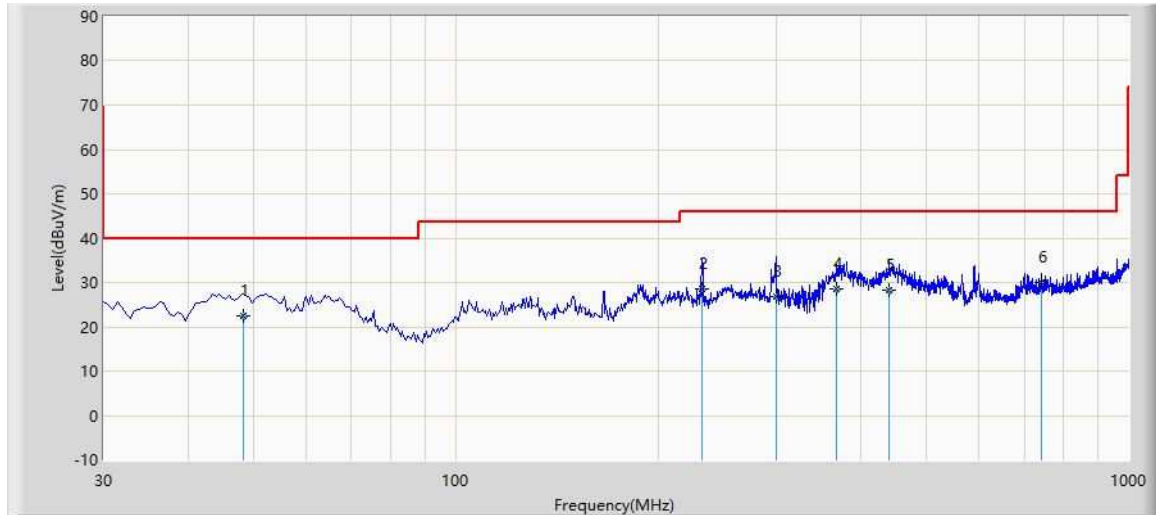
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: SIP-AC3	Test Date: 2023/12/13
Limit: FCC Part 15.209 RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168_00997_25-2000MHz	Polarity: Vertical
EUT: HOST B	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57 - 61.56GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		48.430	22.512	4.600	-17.488	40.000	17.912	QP
2		232.730	28.515	12.700	-17.485	46.000	15.815	QP
3		299.660	26.932	8.500	-19.068	46.000	18.432	QP
4		368.530	28.462	8.300	-17.538	46.000	20.162	QP
5		441.280	28.281	6.200	-17.719	46.000	22.081	QP
6	*	741.495	29.899	1.800	-16.101	46.000	28.099	QP

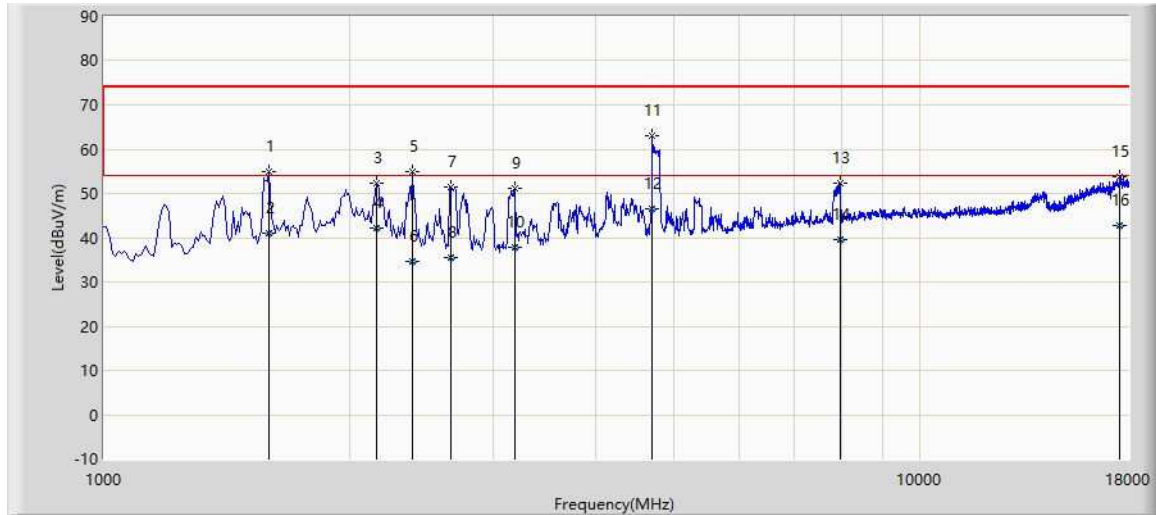
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: Quasi-Peak measurement was not performed when peak measure level was lower than the quasi-peak limit.

Site: SIP-AC3	Time: 2023/08/28 - 11:02
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz-AC3	Polarity: Horizontal
EUT: HOST B	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



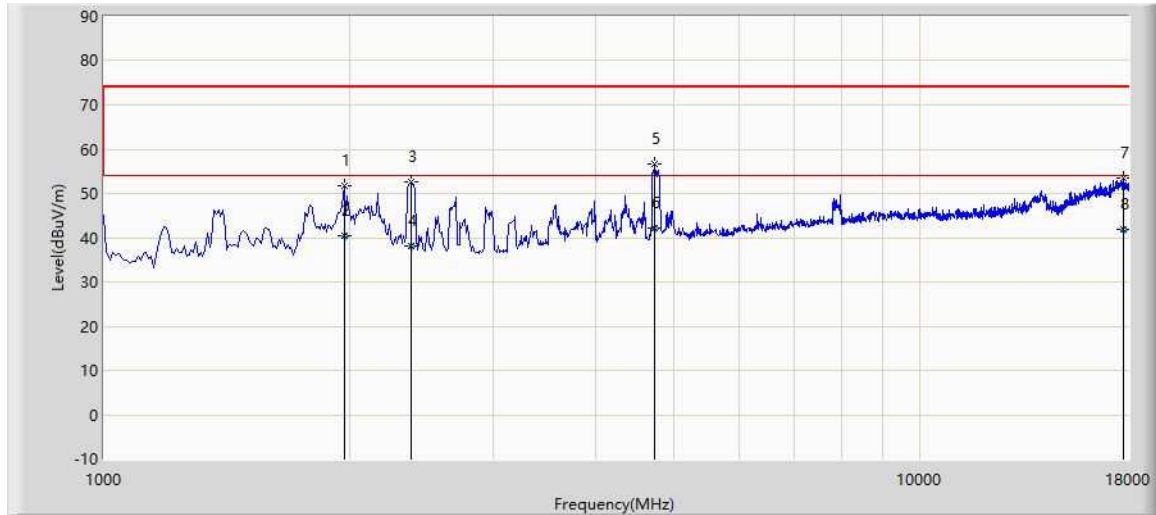
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		1595.000	55.020	71.625	-18.980	74.000	-16.605	PK
2		1595.000	41.135	57.740	-12.865	54.000	-16.605	AV
3		2156.000	52.298	66.698	-21.702	74.000	-14.400	PK
4		2156.000	42.200	56.600	-11.800	54.000	-14.400	AV
5		2385.500	54.790	68.474	-19.210	74.000	-13.684	PK
6		2385.500	34.716	48.400	-19.284	54.000	-13.684	AV
7		2666.000	51.391	64.072	-22.609	74.000	-12.681	PK
8		2666.000	35.519	48.200	-18.481	54.000	-12.681	AV
9		3193.000	51.256	61.663	-22.744	74.000	-10.407	PK
10		3193.000	37.793	48.200	-16.207	54.000	-10.407	AV
11		4697.500	62.952	70.842	-11.048	74.000	-7.890	PK
12	*	4697.500	46.640	54.530	-7.360	54.000	-7.890	AV
13		7970.000	52.348	56.367	-21.652	74.000	-4.019	PK
14		7970.000	39.581	43.600	-14.419	54.000	-4.019	AV
15		17541.000	53.656	45.934	-20.344	74.000	7.722	PK
16		17541.000	42.622	34.900	-11.378	54.000	7.722	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Time: 2023/08/28 - 11:22
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz-AC3	Polarity: Vertical
EUT: HOST B	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



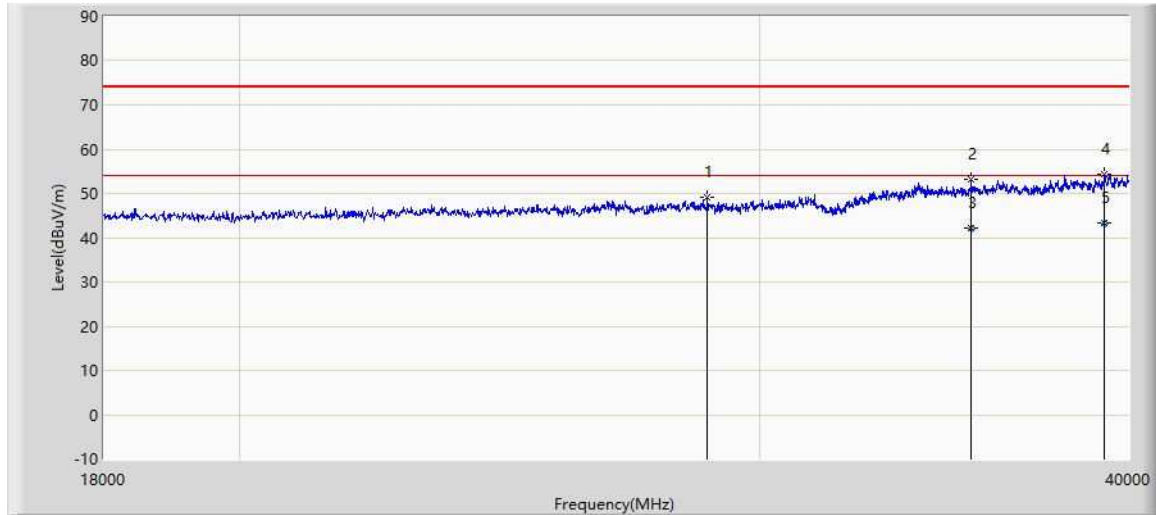
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		1969.000	51.824	66.405	-22.176	74.000	-14.581	PK
2		1969.000	40.319	54.900	-13.681	54.000	-14.581	AV
3		2377.000	52.639	66.314	-21.361	74.000	-13.675	PK
4		2377.000	38.125	51.800	-15.875	54.000	-13.675	AV
5		4731.500	56.593	64.062	-17.407	74.000	-7.468	PK
6	*	4731.500	42.032	49.500	-11.968	54.000	-7.468	AV
7		17745.000	53.370	45.874	-20.630	74.000	7.496	PK
8		17745.000	41.996	34.500	-12.004	54.000	7.496	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Time: 2023/08/28 - 19:06
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz	Polarity: Horizontal
EUT: HOST B	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		28813.000	49.020	57.845	-24.980	74.000	-8.824	PK
2		35380.000	53.315	58.867	-20.685	74.000	-5.552	PK
3		35380.000	42.048	47.600	-11.952	54.000	-5.552	AV
4		39241.000	54.221	54.228	-19.779	74.000	-0.008	PK
5	*	39241.000	43.392	43.400	-10.608	54.000	-0.008	AV

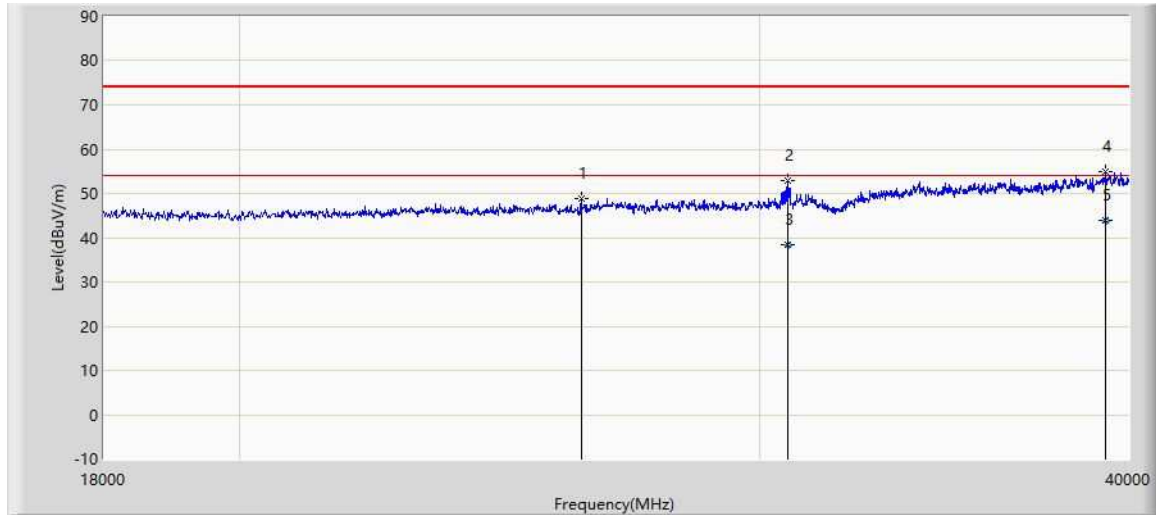
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Time: 2023/08/28 - 19:08
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz	Polarity: Vertical
EUT: HOST B	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		26107.000	48.944	57.444	-25.056	74.000	-8.499	PK
2		30683.000	52.911	61.746	-21.089	74.000	-8.834	PK
3		30683.000	38.465	47.300	-15.535	54.000	-8.834	AV
4		39296.000	54.985	54.565	-19.015	74.000	0.420	PK
5	*	39296.000	43.920	43.500	-10.080	54.000	0.420	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Above 40GHz

Frequency (GHz)	Reading Level @ 1m (dBμV)	Factor (dB)	Measure Level @ 1m (dBμV/m)	Measure Level @ 3m (dBμV/m)	Power Density (pW/cm ²)	Limit (pW/cm ²)	Polarities	Result
49.17	22.17	45.78	67.95	58.41	0.18	90	Horizontal	Pass
49.0935	22.5	46.15	68.65	59.11	0.22	90	Vertical	Pass
60.785	26.02	41.55	67.57	58.03	0.17	90	Horizontal	Pass
60.3805	25.87	41.48	67.35	57.81	0.16	90	Vertical	Pass
82.7065	35.02	44.27	79.29	69.75	2.50	90	Horizontal	Pass
82.9805	35.05	44.19	79.24	69.70	2.47	90	Vertical	Pass
110.2125	15.75	58.06	73.81	64.27	0.71	90	Horizontal	Pass
110.9795	15.17	58.02	73.19	63.65	0.61	90	Vertical	Pass
149.3084	16.31	60.42	76.73	67.19	1.39	90	Horizontal	Pass
179.4362	15.33	60.15	75.48	65.94	1.04	90	Vertical	Pass

Note:

- Measure Level @ 1m = Reading Level @1m + Factor
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) + Mixer Conversion Loss (dB)
- Measure Level @ 3m = Measure Level @ 1m + 20 * log(1m / 3m)
- Power Density = $(10^8 / 377) * \{10^{[(\text{Measure Level @3m} - 120) / 20]}\}^2$

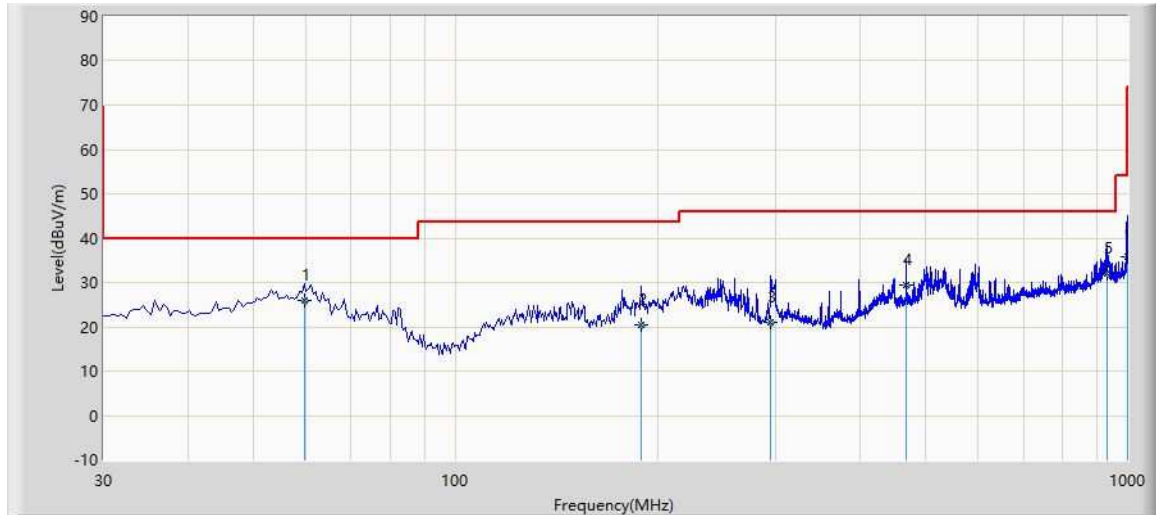
Appendix A.3.2 Operation Frequency Range 61 - 61.5 GHz

Site: SIP-AC1	Time: 2023/08/21 - 17:36
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168 00998 25-2000MHz	Polarity: Horizontal
EUT: HOST B	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	54.735	26.536	8.700	-13.464	40.000	17.837	QP
2		59.585	22.688	5.200	-17.312	40.000	17.488	QP
3		296.265	20.644	2.400	-25.356	46.000	18.244	QP
4		534.400	29.616	6.000	-16.384	46.000	23.616	QP
5		593.570	27.579	2.200	-18.421	46.000	25.379	QP
6		999.515	33.569	3.600	-20.431	54.000	29.970	QP

Site: SIP-AC1	Time: 2023/08/21 - 17:49
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168_00998_25-2000MHz	Polarity: Vertical
EUT: HOST B	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



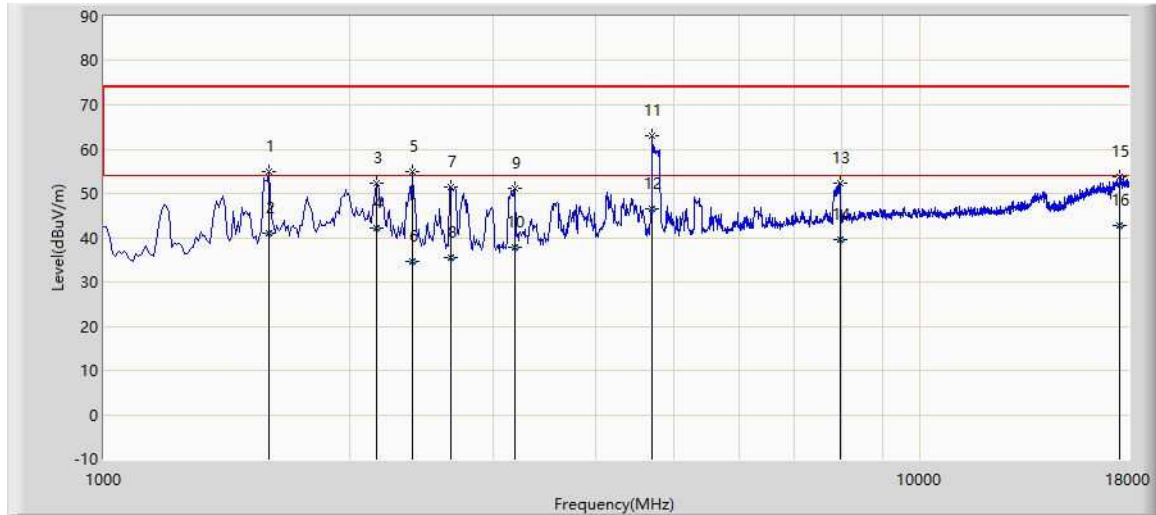
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		59.585	25.888	8.400	-14.112	40.000	17.488	QP
2		189.080	20.533	5.300	-22.967	43.500	15.233	QP
3		294.325	21.094	2.800	-24.906	46.000	18.294	QP
4		468.925	29.547	7.200	-16.453	46.000	22.347	QP
5	*	933.555	32.014	2.400	-13.986	46.000	29.614	QP
6		999.515	35.669	5.700	-18.331	54.000	29.970	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Time: 2023/08/28 - 11:02
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz-AC3	Polarity: Horizontal
EUT: HOST B	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



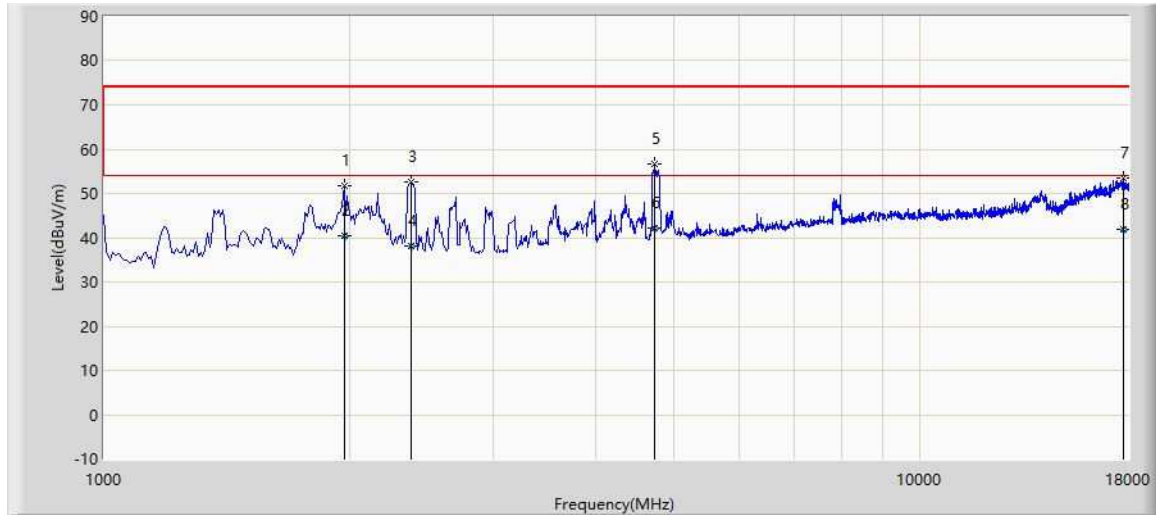
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		1595.000	55.020	71.625	-18.980	74.000	-16.605	PK
2		1595.000	41.135	57.740	-12.865	54.000	-16.605	AV
3		2156.000	52.298	66.698	-21.702	74.000	-14.400	PK
4		2156.000	42.200	56.600	-11.800	54.000	-14.400	AV
5		2385.500	54.790	68.474	-19.210	74.000	-13.684	PK
6		2385.500	34.716	48.400	-19.284	54.000	-13.684	AV
7		2666.000	51.391	64.072	-22.609	74.000	-12.681	PK
8		2666.000	35.519	48.200	-18.481	54.000	-12.681	AV
9		3193.000	51.256	61.663	-22.744	74.000	-10.407	PK
10		3193.000	37.793	48.200	-16.207	54.000	-10.407	AV
11		4697.500	62.952	70.842	-11.048	74.000	-7.890	PK
12	*	4697.500	46.640	54.530	-7.360	54.000	-7.890	AV
13		7970.000	52.348	56.367	-21.652	74.000	-4.019	PK
14		7970.000	39.581	43.600	-14.419	54.000	-4.019	AV
15		17541.000	53.656	45.934	-20.344	74.000	7.722	PK
16		17541.000	42.622	34.900	-11.378	54.000	7.722	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Time: 2023/08/28 - 11:22
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz-AC3	Polarity: Vertical
EUT: HOST B	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



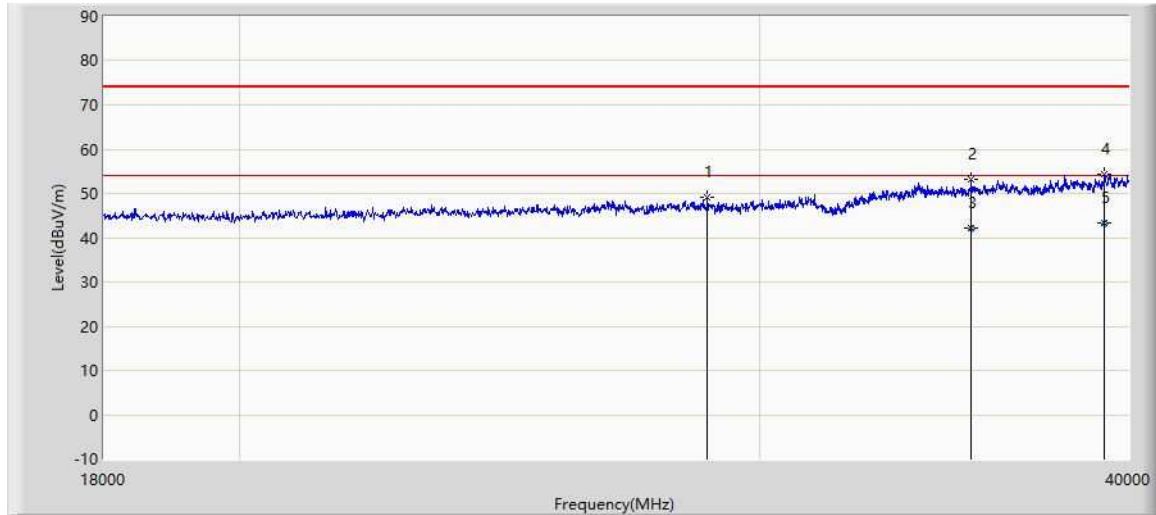
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		1969.000	51.824	66.405	-22.176	74.000	-14.581	PK
2		1969.000	40.319	54.900	-13.681	54.000	-14.581	AV
3		2377.000	52.639	66.314	-21.361	74.000	-13.675	PK
4		2377.000	38.125	51.800	-15.875	54.000	-13.675	AV
5		4731.500	56.593	64.062	-17.407	74.000	-7.468	PK
6	*	4731.500	42.032	49.500	-11.968	54.000	-7.468	AV
7		17745.000	53.370	45.874	-20.630	74.000	7.496	PK
8		17745.000	41.996	34.500	-12.004	54.000	7.496	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Time: 2023/08/28 - 19:06
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz	Polarity: Horizontal
EUT: HOST B	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		28813.000	49.020	57.845	-24.980	74.000	-8.824	PK
2		35380.000	53.315	58.867	-20.685	74.000	-5.552	PK
3		35380.000	42.048	47.600	-11.952	54.000	-5.552	AV
4		39241.000	54.221	54.228	-19.779	74.000	-0.008	PK
5	*	39241.000	43.392	43.400	-10.608	54.000	-0.008	AV

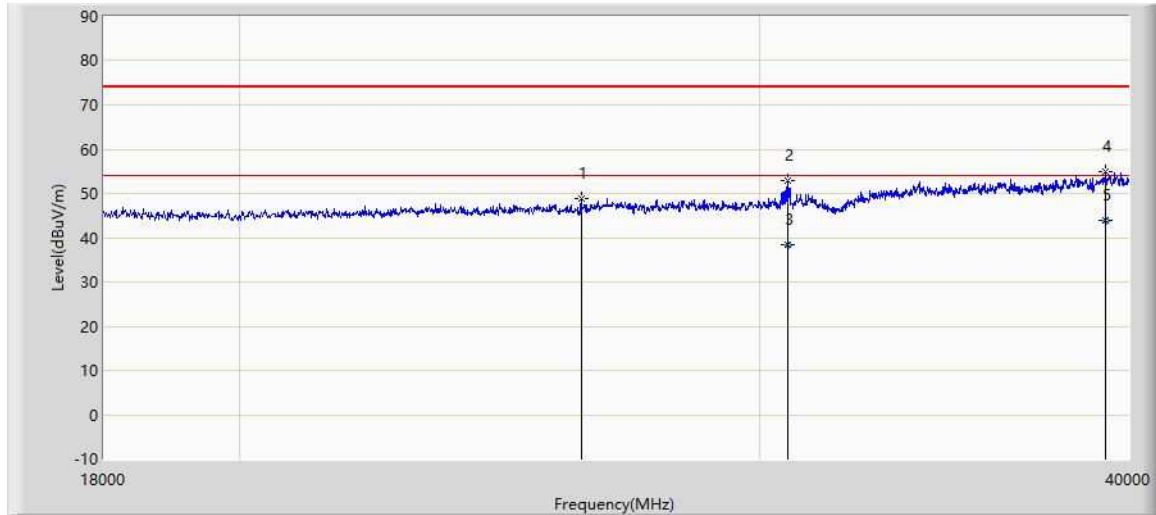
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Time: 2023/08/28 - 19:08
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz	Polarity: Vertical
EUT: HOST B	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		26107.000	48.944	57.444	-25.056	74.000	-8.499	PK
2		30683.000	52.911	61.746	-21.089	74.000	-8.834	PK
3		30683.000	38.465	47.300	-15.535	54.000	-8.834	AV
4		39296.000	54.985	54.565	-19.015	74.000	0.420	PK
5	*	39296.000	43.920	43.500	-10.080	54.000	0.420	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Above 40GHz

Frequency (GHz)	Reading Level @ 1m (dBμV)	Factor (dB)	Measure Level @ 1m (dBμV/m)	Measure Level @ 3m (dBμV/m)	Power Density (pW/cm ²)	Limit (pW/cm ²)	Polarities	Result
49.17	22.17	45.78	67.95	58.41	0.18	90	Horizontal	Pass
49.0935	22.5	46.15	68.65	59.11	0.22	90	Vertical	Pass
60.785	26.02	41.55	67.57	58.03	0.17	90	Horizontal	Pass
60.3805	25.87	41.48	67.35	57.81	0.16	90	Vertical	Pass
82.7065	35.02	44.27	79.29	69.75	2.50	90	Horizontal	Pass
82.9805	35.05	44.19	79.24	69.70	2.47	90	Vertical	Pass
110.2125	15.75	58.06	73.81	64.27	0.71	90	Horizontal	Pass
110.9795	15.17	58.02	73.19	63.65	0.61	90	Vertical	Pass
149.3084	16.31	60.42	76.73	67.19	1.39	90	Horizontal	Pass
179.4362	15.33	60.15	75.48	65.94	1.04	90	Vertical	Pass

Note:

- Measure Level @ 1m = Reading Level @1m + Factor
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) + Mixer Conversion Loss (dB)
- Measure Level @ 3m = Measure Level @ 1m + 20 * log(1m / 3m)
- Power Density = $(10^8 / 377) * \{10^{[(\text{Measure Level @3m} - 120) / 20]}\}^2$

Appendix A.4: Test Results of Field strength of harmonics in HOST C

Appendix A.4.1 Operation Frequency Range 57.0 - 61.56 GHz

Site: SIP-AC1	Test Date: 2023/12/13
Limit: FCC Part 15.209_RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168_00998_25-2000MHz	Polarity: Horizontal
EUT: HOST C	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57 - 61.56GHz)	



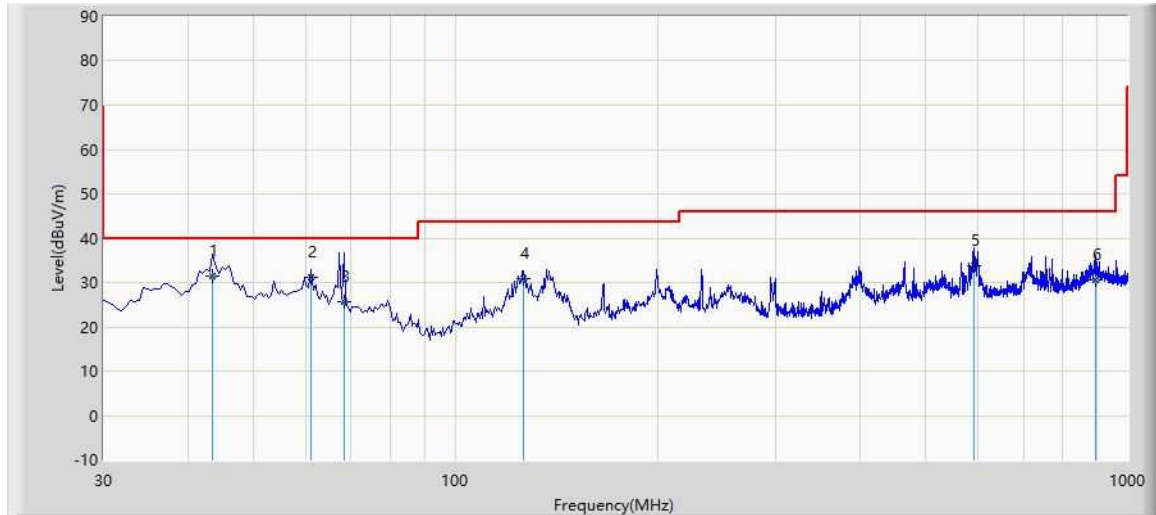
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		67.345	17.370	1.200	-22.630	40.000	16.170	QP
2		207.995	30.934	16.500	-12.566	43.500	14.435	QP
3		255.040	32.789	16.200	-13.211	46.000	16.589	QP
4	*	589.205	38.220	13.000	-7.780	46.000	25.220	QP
5		719.185	32.421	5.200	-13.579	46.000	27.221	QP
6		885.055	31.395	2.500	-14.605	46.000	28.895	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC1	Test Date: 2023/12/13
Limit: FCC Part 15.209 RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168_00998_25-2000MHz	Polarity: Vertical
EUT: HOST C	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57 - 61.56GHz)	



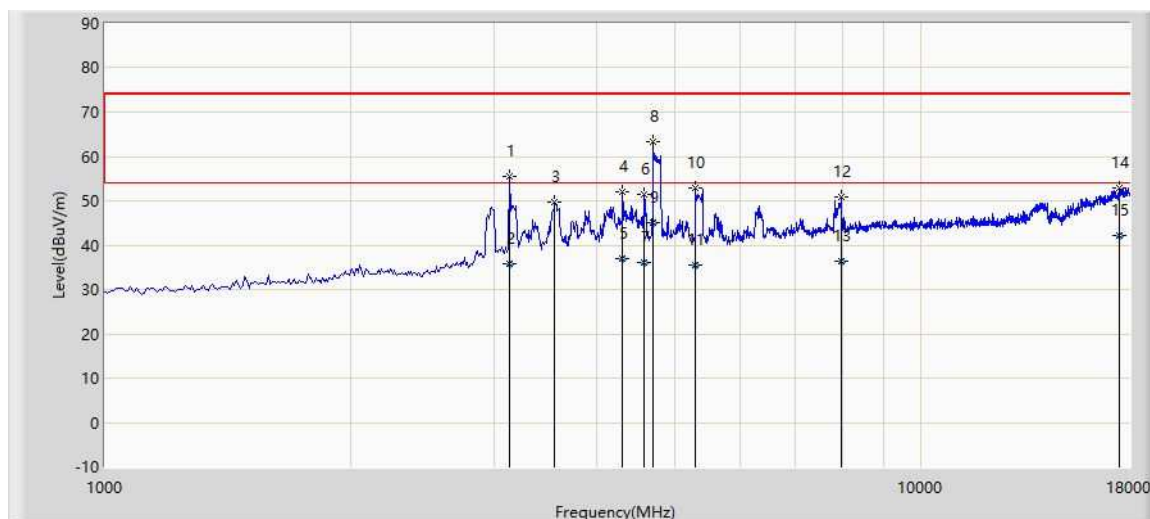
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	43.580	31.357	13.400	-8.643	40.000	17.958	QP
2		61.040	31.129	13.800	-8.871	40.000	17.330	QP
3		68.315	25.793	9.800	-14.207	40.000	15.993	QP
4		126.515	30.823	14.700	-12.677	43.500	16.123	QP
5		589.690	33.713	8.500	-12.287	46.000	25.213	QP
6		897.665	30.478	0.800	-15.522	46.000	29.678	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023/12/12
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz	Polarity: Horizontal
EUT: HOST C	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57 - 61.56GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		3133.500	55.430	66.307	-18.570	74.000	-10.877	PK
2		3133.500	35.653	46.530	-18.347	54.000	-10.877	AV
3		3558.500	49.578	59.453	-24.422	74.000	-9.876	PK
4		4306.500	51.986	60.257	-22.014	74.000	-8.270	PK
5		4306.500	36.870	45.140	-17.130	54.000	-8.270	AV
6		4578.500	51.492	59.699	-22.508	74.000	-8.207	PK
7		4578.500	36.064	44.270	-17.936	54.000	-8.207	AV
8		4697.500	63.240	71.130	-10.760	74.000	-7.890	PK
9	*	4697.500	45.030	52.920	-8.970	54.000	-7.890	AV
10		5292.500	53.003	60.617	-20.997	74.000	-7.614	PK
11		5292.500	35.486	43.100	-18.514	54.000	-7.614	AV
12		7978.500	50.748	54.616	-23.252	74.000	-3.867	PK
13		7978.500	36.432	40.300	-17.568	54.000	-3.867	AV
14		17515.500	52.897	45.590	-21.103	74.000	7.307	PK
15		17515.500	42.147	34.840	-11.853	54.000	7.307	AV

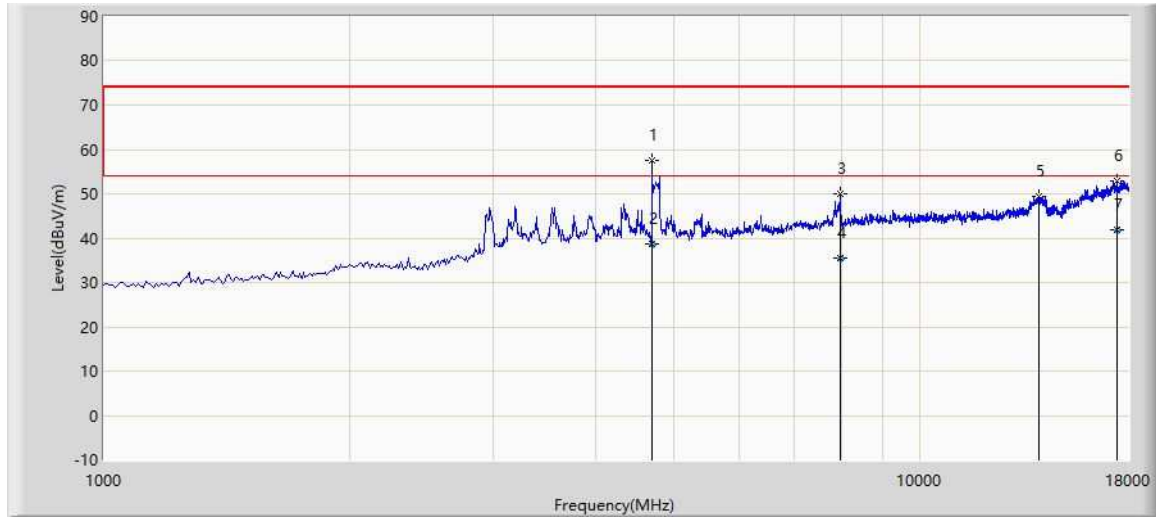
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Test Date: 2023/12/12
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz	Polarity: Vertical
EUT: HOST C	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57 - 61.56GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		4697.500	57.490	65.380	-16.510	74.000	-7.890	PK
2		4697.500	38.740	46.630	-15.260	54.000	-7.890	AV
3		7987.000	50.031	53.749	-23.969	74.000	-3.718	PK
4		7987.000	35.482	39.200	-18.518	54.000	-3.718	AV
5		13971.000	49.392	46.755	-24.608	74.000	2.637	PK
6		17439.000	52.781	45.454	-21.219	74.000	7.327	PK
7	*	17439.000	41.927	34.600	-12.073	54.000	7.327	AV

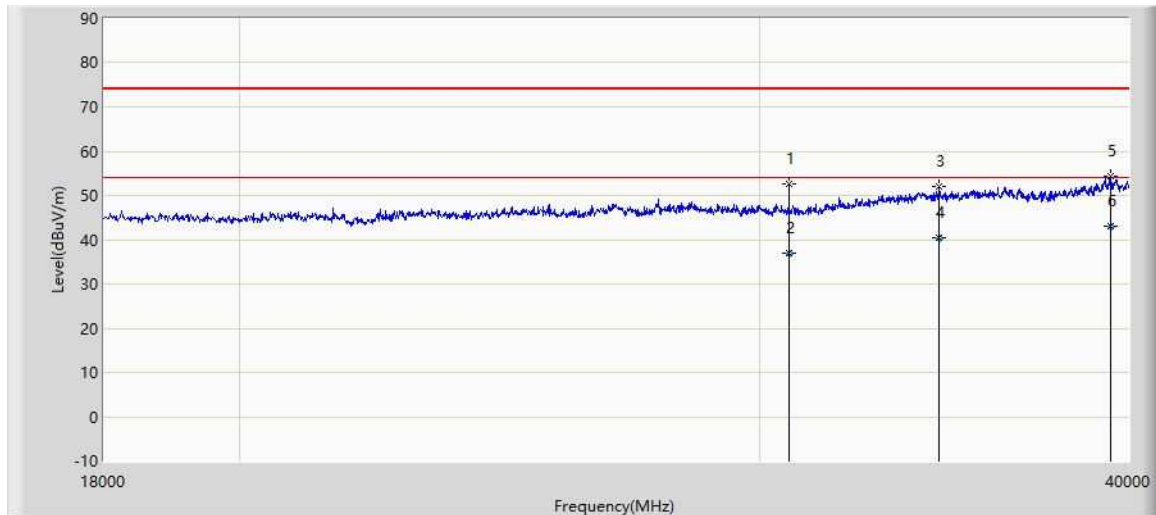
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Test Date: 2023/12/12
Limit: FCC Part15.209_RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz-New	Polarity: Horizontal
EUT: HOST C	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57 - 61.56GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBuV/m)	Reading Level (dBuV)	Margin (dB)	Limit (dBuV/m)	Factor (dB/m)	Type
1		30716.000	52.687	61.570	-21.313	74.000	-8.883	PK
2		30716.000	36.987	45.870	-17.013	54.000	-8.883	AV
3		34511.000	51.906	59.044	-22.094	74.000	-7.138	PK
4		34511.000	40.442	47.580	-13.558	54.000	-7.138	AV
5		39450.000	54.331	53.527	-19.669	74.000	0.804	PK
6	*	39450.000	43.004	42.200	-10.996	54.000	0.804	AV

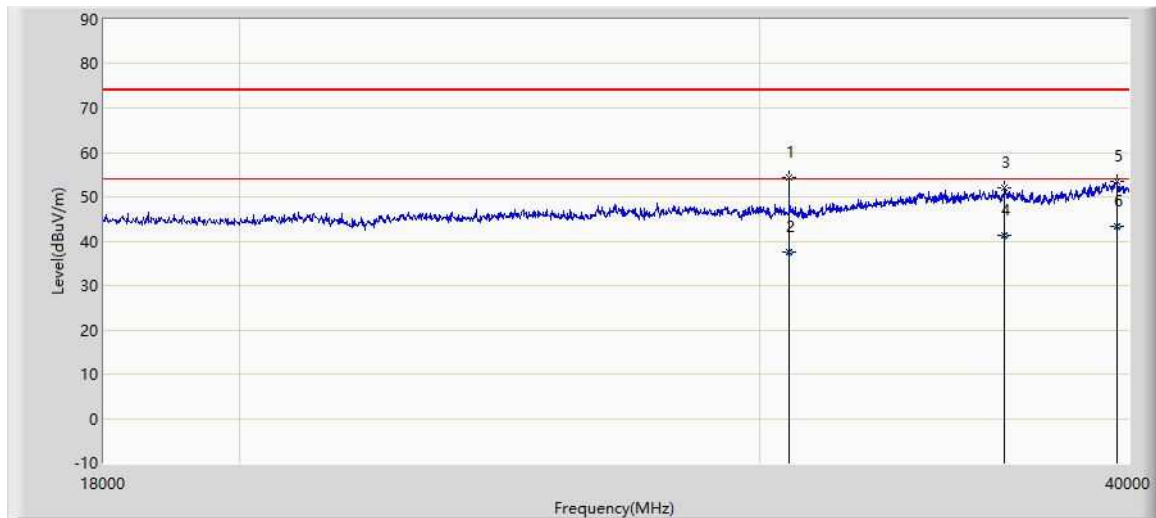
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBuV/m) = Reading Level (dBuV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Test Date: 2023/12/12
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz-New	Polarity: Vertical
EUT: HOST C	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57 - 61.56GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		30716.000	54.327	63.210	-19.673	74.000	-8.883	PK
2		30716.000	37.527	46.410	-16.473	54.000	-8.883	AV
3		36315.000	52.047	56.420	-21.953	74.000	-4.373	PK
4		36315.000	41.357	45.730	-12.643	54.000	-4.373	AV
5		39637.000	53.520	52.042	-20.480	74.000	1.478	PK
6	*	39637.000	43.458	41.980	-10.542	54.000	1.478	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Above 40GHz

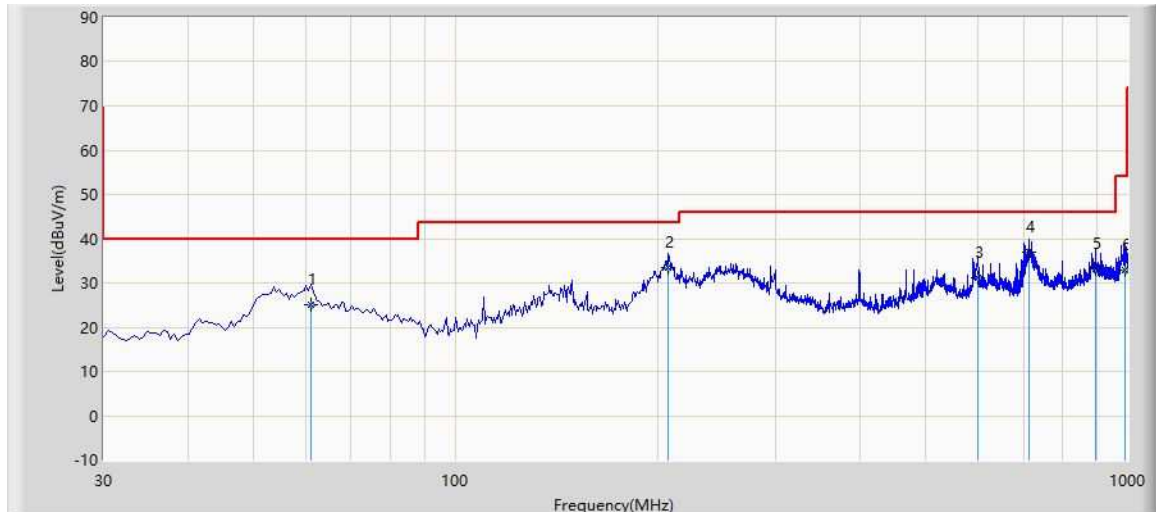
Frequency (GHz)	Reading Level @ 1m (dBµV)	Factor (dB)	Measure Level @ 1m (dBµV/m)	Measure Level @ 3m (dBµV/m)	Power Density (pW/cm ²)	Limit (pW/cm ²)	Polarities	Result
49.911	21.58	46.27	67.85	58.31	0.18	90.00	Horizontal	Pass
49.2255	22.08	45.78	67.86	58.32	0.18	90.00	Vertical	Pass
62.4825	24.54	41.35	65.89	56.35	0.11	90.00	Horizontal	Pass
54.975	24.07	41.35	65.42	55.88	0.10	90.00	Vertical	Pass
84.1815	34.91	44.21	79.12	69.58	2.41	90.00	Horizontal	Pass
82.741	34.87	44.27	79.14	69.60	2.42	90.00	Vertical	Pass
119.731	10.99	57.38	68.37	58.83	0.20	90.00	Horizontal	Pass
131.082	10.66	57.00	67.66	58.12	0.17	90.00	Vertical	Pass
154.3436	12.99	61.07	74.06	64.52	0.75	90.00	Horizontal	Pass
158.2232	12.19	60.02	72.21	62.67	0.49	90.00	Vertical	Pass

Note:

1. Measure Level @ 1m = Reading Level @1m + Factor
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) + Mixer Conversion Loss (dB)
2. Measure Level @ 3m = Measure Level @ 1m + 20 * log(1m / 3m)
3. Power Density = $(10^8 / 377) * \{10^{[(\text{Measure Level @3m} - 120) / 20]}\}^2$

Appendix A.4.2 Operation Frequency Range 61 - 61.5 GHz

Site: SIP-AC3	Time: 2023/08/30 - 16:26
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168 00997 25-2000MHz	Polarity: Horizontal
EUT: HOST C	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



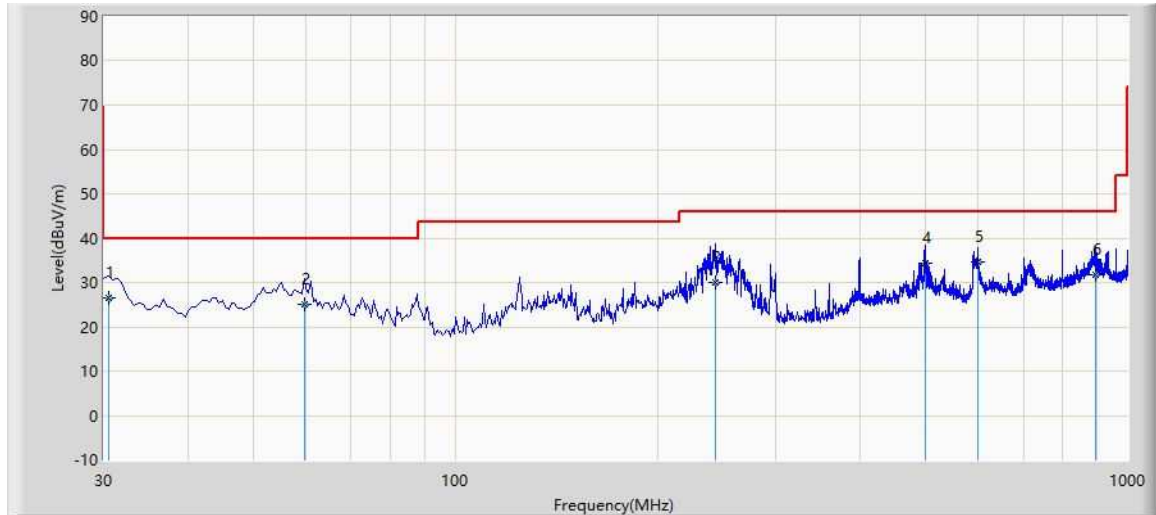
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		61.040	25.114	8.100	-14.886	40.000	17.014	QP
2		207.510	33.487	18.600	-10.013	43.500	14.887	QP
3		597.935	31.255	5.800	-14.745	46.000	25.454	QP
4	*	712.880	36.941	10.000	-9.059	46.000	26.941	QP
5		897.650	33.168	3.400	-12.832	46.000	29.768	QP
6		993.210	32.841	2.800	-21.159	54.000	30.041	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Time: 2023/08/30 - 16:34
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168_00997_25-2000MHz	Polarity: Vertical
EUT: HOST C	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



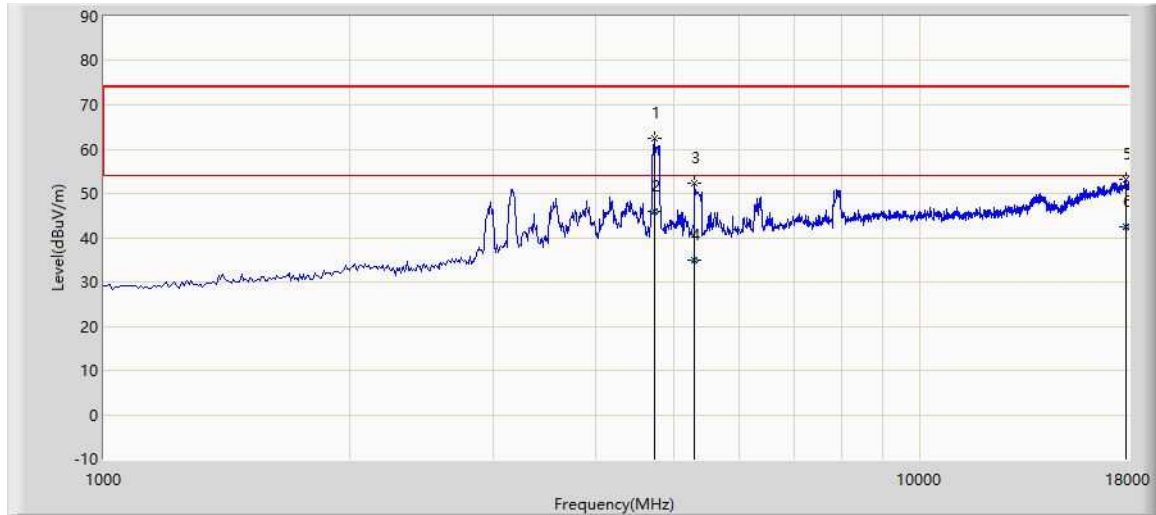
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		30.485	26.527	10.100	-13.473	40.000	16.427	QP
2		59.585	25.183	8.000	-14.817	40.000	17.184	QP
3		243.400	30.134	13.500	-15.866	46.000	16.634	QP
4		499.480	34.402	11.300	-11.598	46.000	23.102	QP
5	*	598.420	34.675	9.200	-11.325	46.000	25.475	QP
6		894.270	31.690	2.000	-14.310	46.000	29.690	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Time: 2023/08/28 - 15:06
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz-AC3	Polarity: Horizontal
EUT: HOST C	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



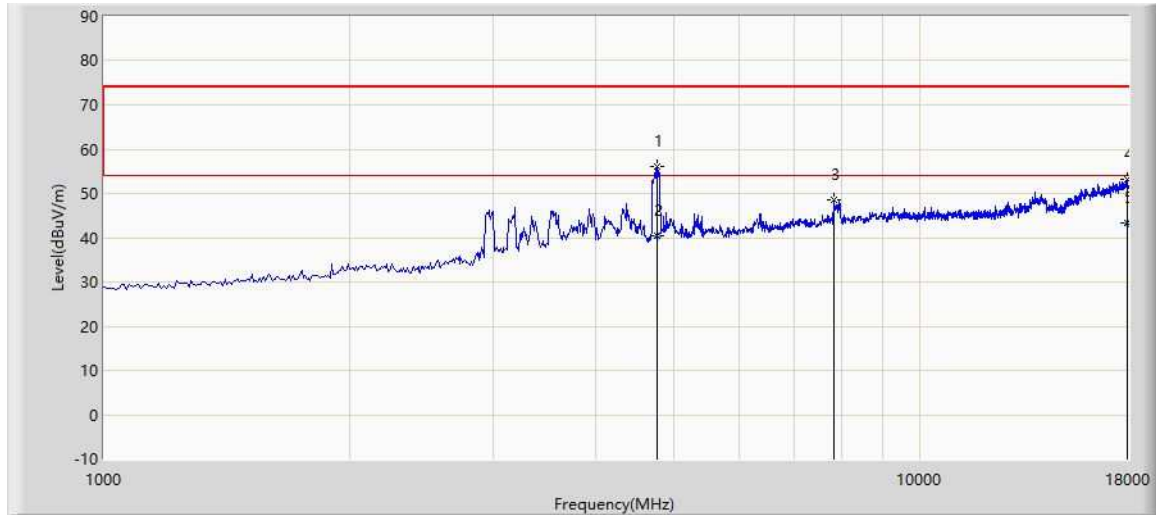
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		4723.000	62.398	69.919	-11.602	74.000	-7.521	PK
2	*	4723.000	46.079	53.600	-7.921	54.000	-7.521	AV
3		5292.500	52.186	59.800	-21.814	74.000	-7.614	PK
4		5292.500	34.826	42.440	-19.174	54.000	-7.614	AV
5		17864.000	53.260	45.404	-20.740	74.000	7.856	PK
6		17864.000	42.356	34.500	-11.644	54.000	7.856	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Time: 2023/08/28 - 15:08
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz-AC3	Polarity: Vertical
EUT: HOST C	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		4765.500	56.177	63.747	-17.823	74.000	-7.570	PK
2		4765.500	40.360	47.930	-13.640	54.000	-7.570	AV
3		7834.000	48.511	52.808	-25.489	74.000	-4.297	PK
4		17949.000	53.191	44.477	-20.809	74.000	8.714	PK
5	*	17949.000	43.314	34.600	-10.686	54.000	8.714	AV

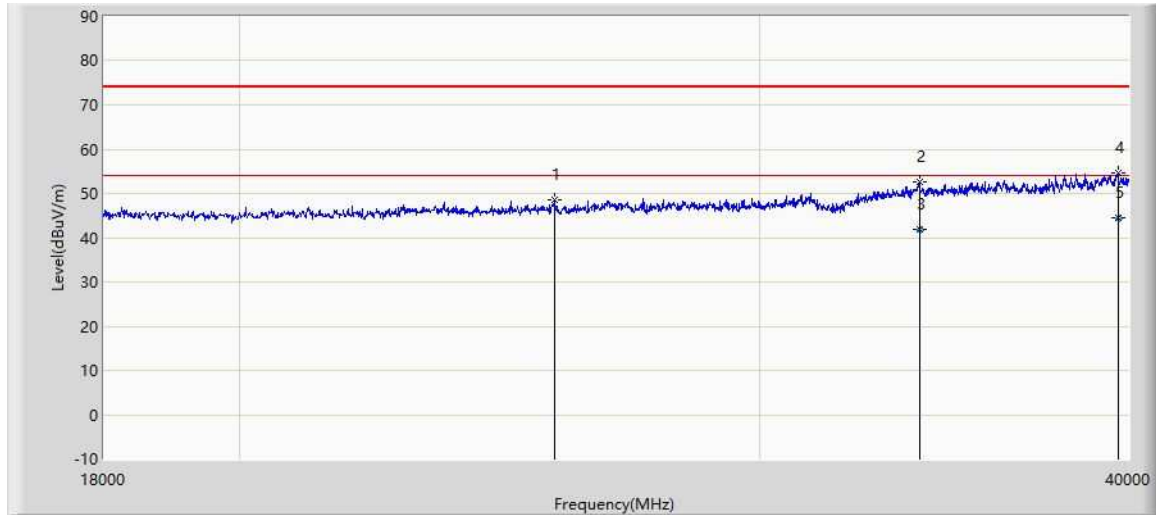
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Time: 2023/08/28 - 17:56
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz	Polarity: Horizontal
EUT: HOST C	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		25579.000	48.429	56.355	-25.571	74.000	-7.926	PK
2		33983.000	52.595	58.925	-21.405	74.000	-6.331	PK
3		33983.000	41.870	48.200	-12.130	54.000	-6.331	AV
4		39670.000	54.574	54.074	-19.426	74.000	0.500	PK
5	*	39670.000	44.450	43.950	-9.550	54.000	0.500	AV

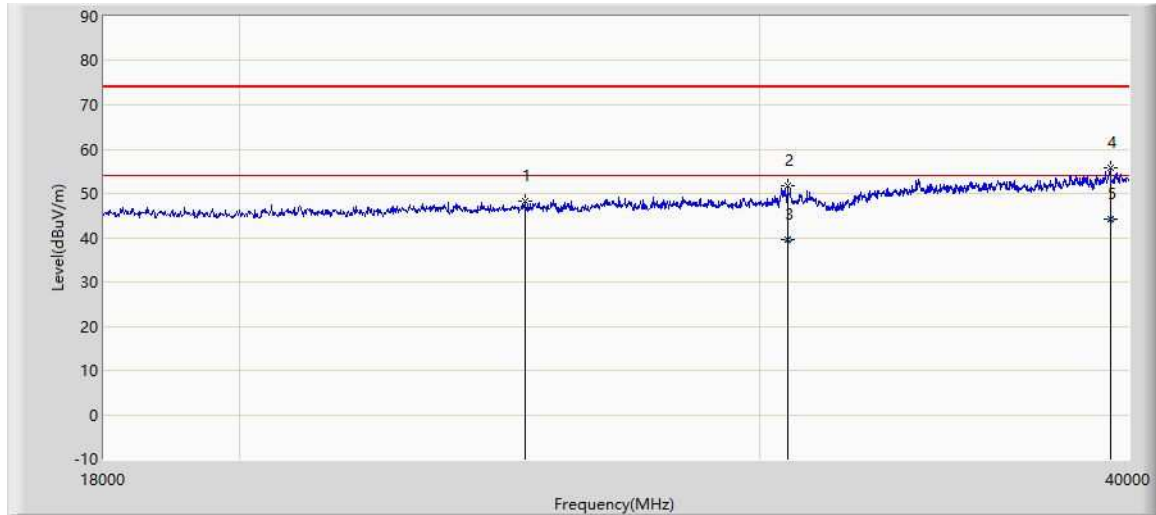
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Time: 2023/08/28 - 18:38
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz	Polarity: Vertical
EUT: HOST C	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		24985.000	48.196	56.171	-25.804	74.000	-7.975	PK
2		30661.000	51.824	60.622	-22.176	74.000	-8.798	PK
3		30661.000	39.702	48.500	-14.298	54.000	-8.798	AV
4		39428.000	55.837	55.410	-18.163	74.000	0.427	PK
5	*	39428.000	44.227	43.800	-9.773	54.000	0.427	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Above 40GHz

Frequency (GHz)	Reading Level @ 1m (dBμV)	Factor (dB)	Measure Level @ 1m (dBμV/m)	Measure Level @ 3m (dBμV/m)	Power Density (pW/cm ²)	Limit (pW/cm ²)	Polarities	Result
49.159	22.71	45.18	67.89	58.35	0.18	90	Horizontal	Pass
48.494	22.7	45.59	68.29	58.75	0.20	90	Vertical	Pass
60.3625	26.11	41.44	67.55	58.01	0.17	90	Horizontal	Pass
60.419	25.95	41.51	67.46	57.92	0.16	90	Vertical	Pass
83.14	34.87	44.2	79.07	69.53	2.38	90	Horizontal	Pass
82.351	35.05	44.22	79.27	69.73	2.49	90	Vertical	Pass
138.616	15.75	57.27	73.02	63.48	0.59	90	Horizontal	Pass
119.804	15.68	57.39	73.07	63.53	0.60	90	Vertical	Pass
189.2216	15.91	61.33	77.24	67.70	1.56	90	Horizontal	Pass
191.3306	15.69	61.1	76.79	67.25	1.41	90	Vertical	Pass

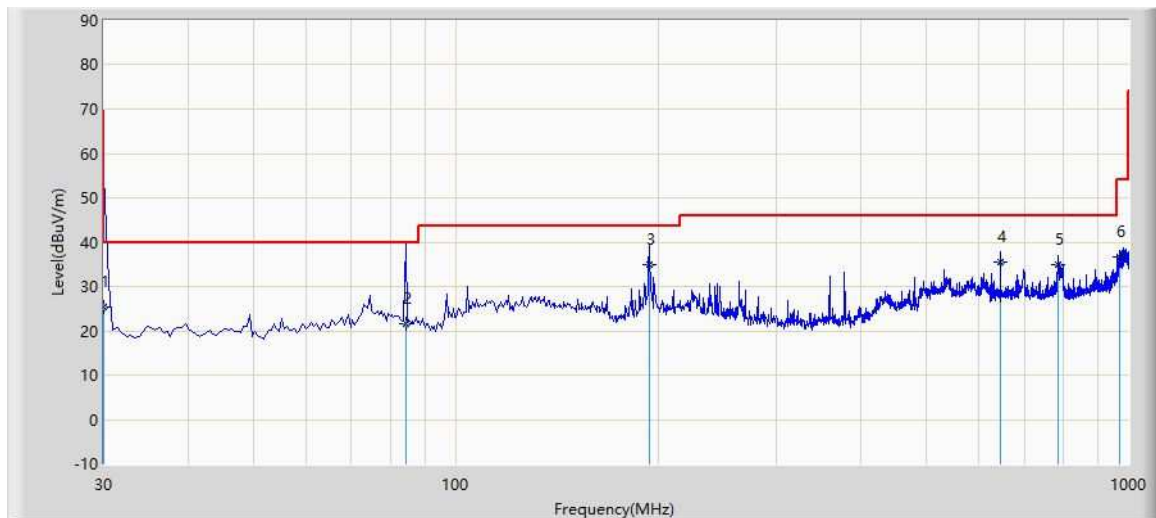
Note:

- Measure Level @ 1m = Reading Level @1m + Factor
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) + Mixer Conversion Loss (dB)
- Measure Level @ 3m = Measure Level @ 1m + 20 * log(1m / 3m)
- Power Density = $(10^8 / 377) * \{10^{[(\text{Measure Level @3m} - 120) / 20]}\}^2$

Appendix A.5: Test Results of Field strength of harmonics in HOST D

Appendix A.5.1 Operation Frequency Range 57.0 - 61.56 GHz

Site: SIP-AC3	Test Date: 2023/12/10 - 19:33
Limit: FCC_Part15.209_RSE(3m)	Engineer: Arvin Ding
Probe: VULB 9168_00997_25-2000MHz	Polarity: Horizontal
EUT: HOST D	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57.0GHz - 61.56GHz)	



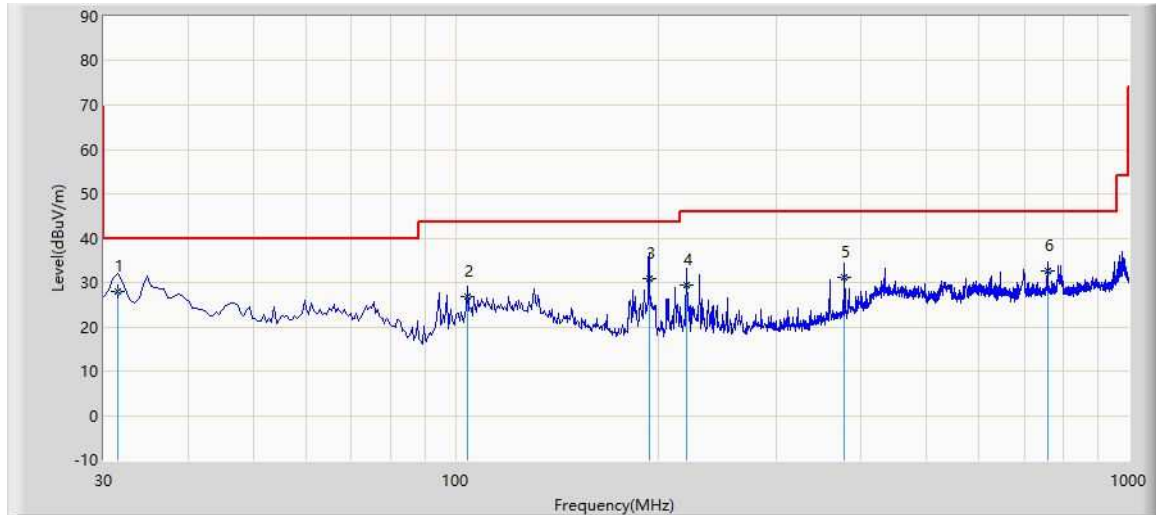
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		30.000	25.318	8.947	-14.682	40.000	16.371	QP
2		84.320	21.540	8.940	-18.460	40.000	12.600	QP
3	*	193.930	35.036	19.900	-8.464	43.500	15.136	QP
4		644.980	35.650	9.254	-10.350	46.000	26.396	QP
5		786.115	34.972	6.854	-11.028	46.000	28.117	QP
6		967.990	36.573	7.012	-17.427	54.000	29.561	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023/12/10 - 19:51
Limit: FCC Part15.209 RSE(3m)	Engineer: Arvin Ding
Probe: VULB 9168_00997_25-2000MHz	Polarity: Vertical
EUT: HOST D	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57.0GHz - 61.56GHz)	



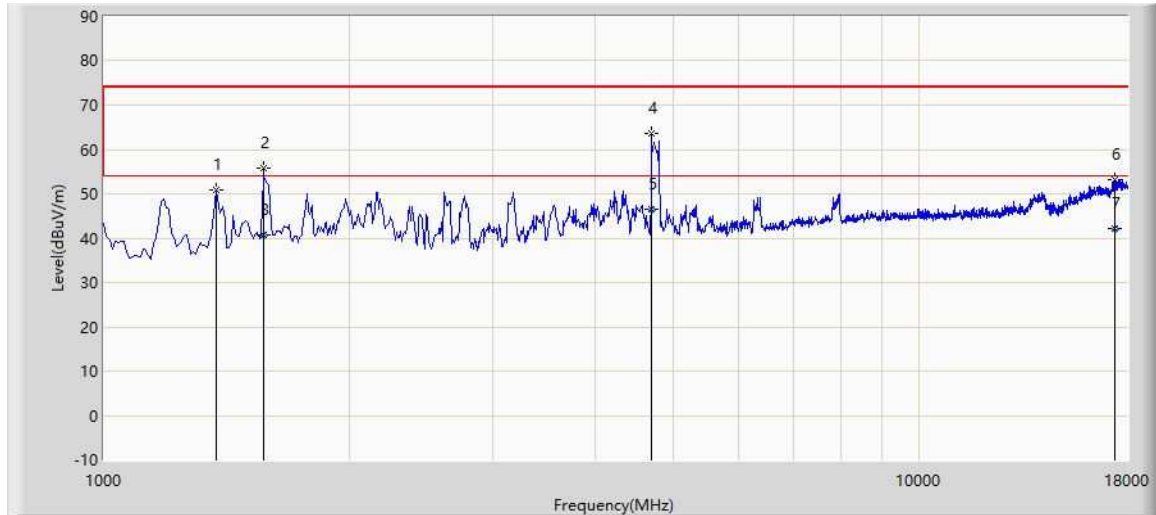
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	31.455	28.050	11.478	-11.950	40.000	16.571	QP
2		104.205	26.923	12.785	-16.577	43.500	14.139	QP
3		193.930	31.006	15.870	-12.494	43.500	15.136	QP
4		220.120	29.376	14.572	-16.624	46.000	14.804	QP
5		378.715	31.128	10.645	-14.872	46.000	20.483	QP
6		757.500	32.520	4.102	-13.480	46.000	28.418	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Test Date: 2023/12/11 - 10:34
Limit: FCC Part15.209 RSE(3m)	Engineer: Arvin Ding
Probe: HF907 102861 1-18GHz	Polarity: Horizontal
EUT: HOST D	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57.0GHz - 61.56GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		1374.000	50.824	69.033	-23.176	74.000	-18.209	PK
2		1569.500	55.890	72.600	-18.110	74.000	-16.709	PK
3		1569.500	40.720	57.430	-13.280	54.000	-16.709	AV
4		4697.500	63.670	71.560	-10.330	74.000	-7.890	PK
5	*	4697.500	46.410	54.300	-7.590	54.000	-7.890	AV
6		17337.000	53.078	45.672	-20.922	74.000	7.406	PK
7		17337.000	42.176	34.770	-11.824	54.000	7.406	AV

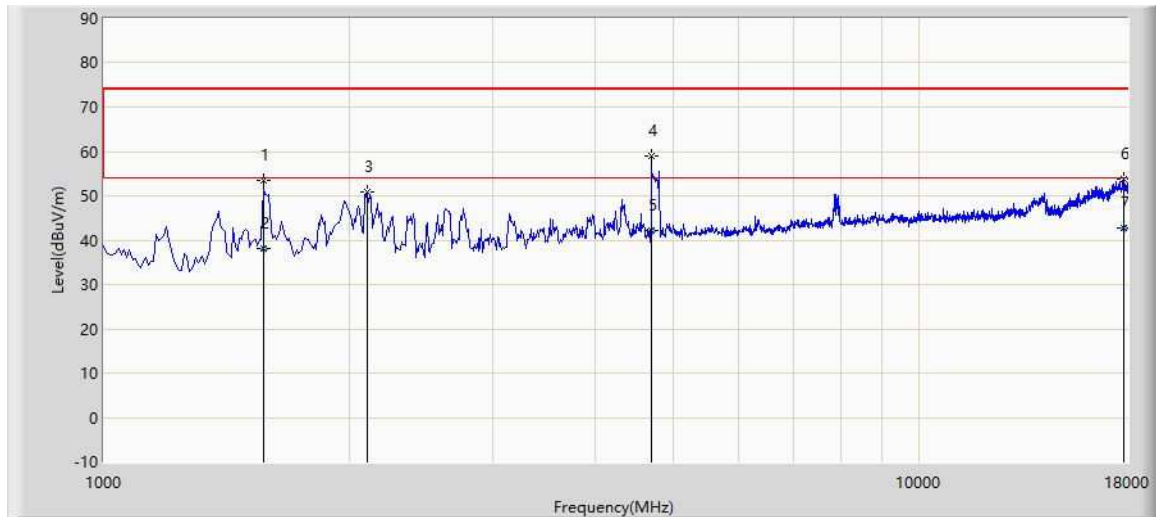
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Test Date: 2023/12/11 - 10:37
Limit: FCC Part15.209 RSE(3m)	Engineer: Arvin Ding
Probe: HF907_102861_1-18GHz	Polarity: Vertical
EUT: HOST D	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57.0GHz - 61.56GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		1569.500	53.590	70.300	-20.410	74.000	-16.709	PK
2		1569.500	38.090	54.800	-15.910	54.000	-16.709	AV
3		2105.000	50.893	65.058	-23.107	74.000	-14.165	PK
4		4697.500	59.020	66.910	-14.980	74.000	-7.890	PK
5		4697.500	42.160	50.050	-11.840	54.000	-7.890	AV
6		17821.500	53.625	45.614	-20.375	74.000	8.011	PK
7	*	17821.500	42.621	34.610	-11.379	54.000	8.011	AV

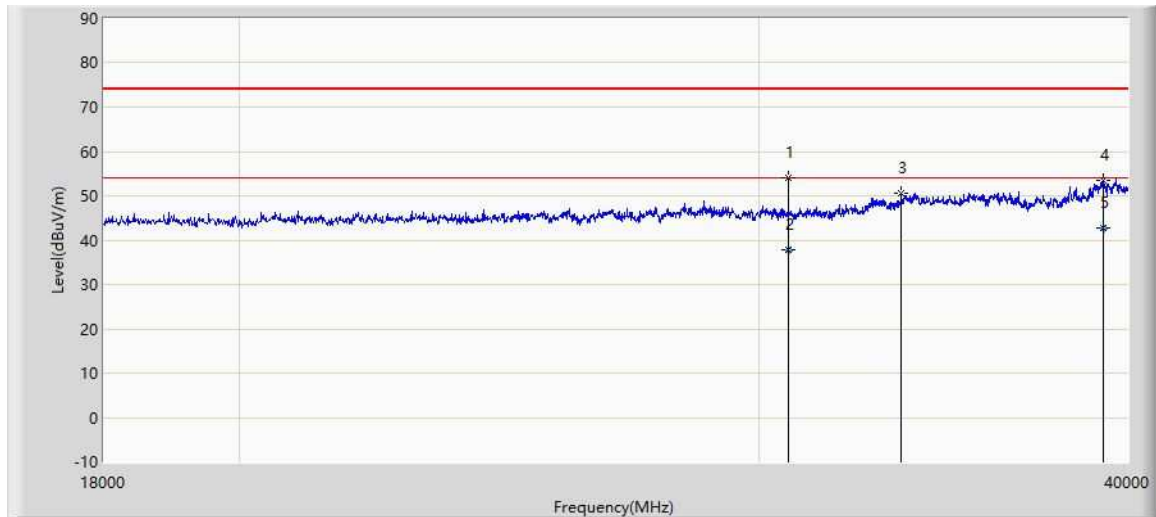
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Test Date: 2023/12/11 - 11:22
Limit: FCC Part15.209_RSE(3m)	Engineer: Arvin Ding
Probe: BBHA 9170_00935_18-40GHz-New	Polarity: Horizontal
EUT: HOST D	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57.0GHz - 61.56GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		30716.000	53.917	62.800	-20.083	74.000	-8.883	PK
2		30716.000	37.817	46.700	-16.183	54.000	-8.883	AV
3		33532.000	50.439	58.245	-23.561	74.000	-7.806	PK
4		39241.000	53.562	53.044	-20.438	74.000	0.518	PK
5	*	39241.000	42.768	42.250	-11.232	54.000	0.518	AV

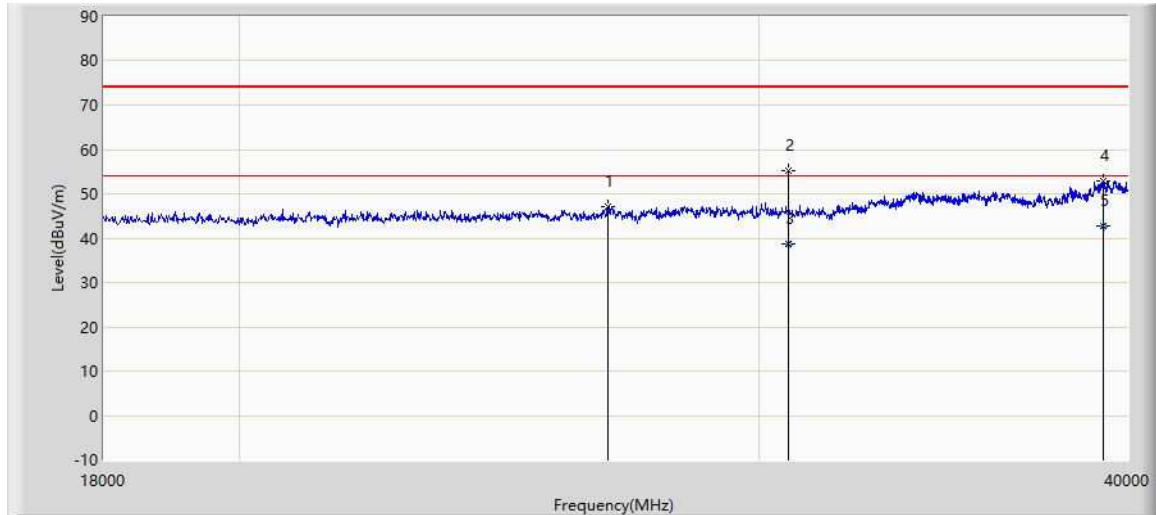
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Test Date: 2023/12/11 - 11:26
Limit: FCC Part15.209 RSE(3m)	Engineer: Arvin Ding
Probe: BBHA 9170_00935_18-40GHz-New	Polarity: Vertical
EUT: HOST D	Power: AC 120V/60Hz
Test Mode: Transmit at 60GHz (57.0GHz - 61.56GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		26668.000	47.188	54.741	-26.812	74.000	-7.553	PK
2		30716.000	55.137	64.020	-18.863	74.000	-8.883	PK
3		30716.000	38.717	47.600	-15.283	54.000	-8.883	AV
4		39263.000	52.932	52.030	-21.068	74.000	0.902	PK
5	*	39263.000	42.753	41.850	-11.247	54.000	0.902	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Above 40GHz

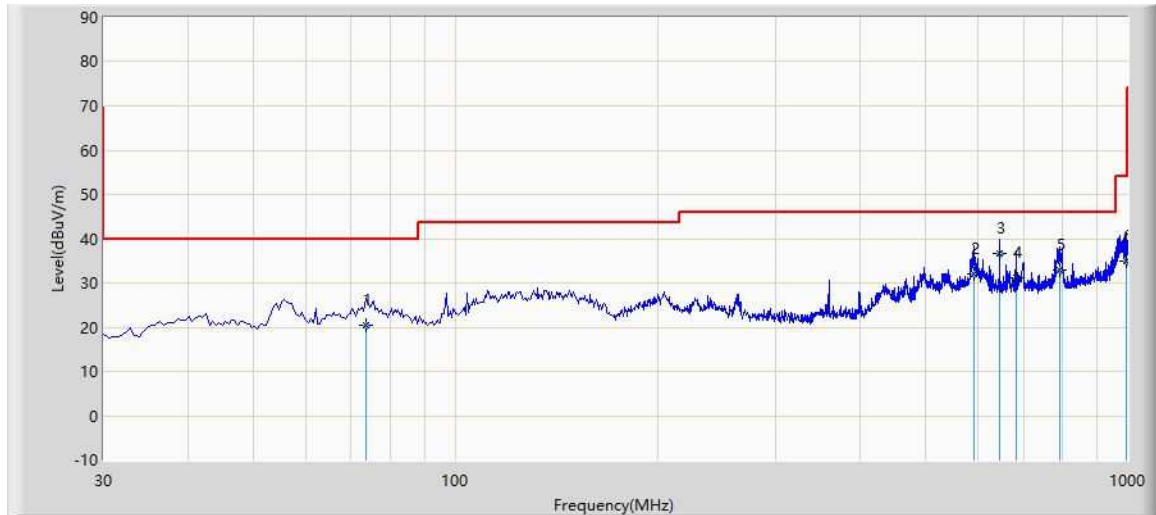
Frequency (GHz)	Reading Level @ 1m (dBμV)	Factor (dB)	Measure Level @ 1m (dBμV/m)	Measure Level @ 3m (dBμV/m)	Power Density (pW/cm ²)	Limit (pW/cm ²)	Polarities	Result
49.0635	18.78	46.15	64.93	55.39	0.09	90.00	Horizontal	Pass
49.217	18.00	45.78	63.78	54.24	0.07	90.00	Vertical	Pass
62.4985	24.66	41.31	65.97	56.43	0.12	90.00	Horizontal	Pass
62.0965	25.05	41.35	66.40	56.86	0.13	90.00	Vertical	Pass
83.226	34.53	44.22	78.75	69.21	2.21	90.00	Horizontal	Pass
82.412	33.29	44.23	77.52	67.98	1.67	90.00	Vertical	Pass
130.4235	10.75	57.12	67.87	58.33	0.18	90.00	Horizontal	Pass
112.705	11.01	58.47	69.48	59.94	0.26	90.00	Vertical	Pass
165.5534	12.47	59.75	72.22	62.68	0.49	90.00	Horizontal	Pass
154.8104	12.57	60.72	73.29	63.75	0.63	90.00	Vertical	Pass

Note:

1. Measure Level @ 1m = Reading Level @1m + Factor
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) + Mixer Conversion Loss (dB)
2. Measure Level @ 3m = Measure Level @ 1m + 20 * log(1m / 3m)
3. Power Density = $(10^8 / 377) * \{10^{[(\text{Measure Level @3m} - 120) / 20]}\}^2$

Appendix A.5.2 Operation Frequency Range 61 - 61.5 GHz

Site: SIP-AC3	Time: 2023/08/30 - 17:03
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168 00997 25-2000MHz	Polarity: Horizontal
EUT: HOST D	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



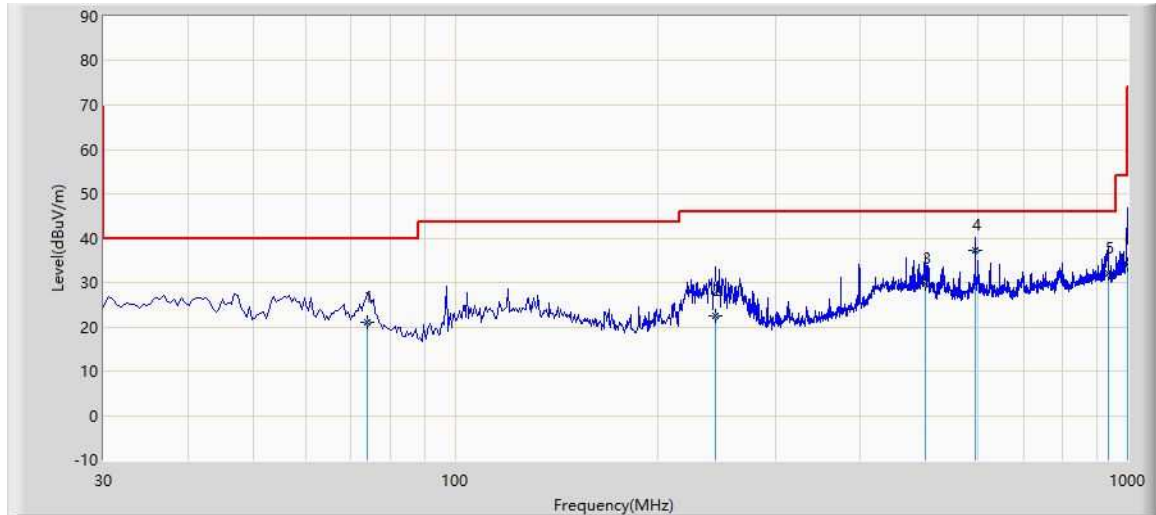
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		73.650	20.395	5.700	-19.605	40.000	14.695	QP
2		590.175	31.909	6.800	-14.091	46.000	25.109	QP
3	*	644.980	36.596	10.200	-9.404	46.000	26.396	QP
4		681.840	31.213	5.000	-14.787	46.000	26.213	QP
5		792.905	32.904	4.900	-13.096	46.000	28.003	QP
6		997.090	34.949	4.800	-19.051	54.000	30.149	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Time: 2023/08/30 - 17:08
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: VULB 9168_00997_25-2000MHz	Polarity: Horizontal
EUT: HOST D	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



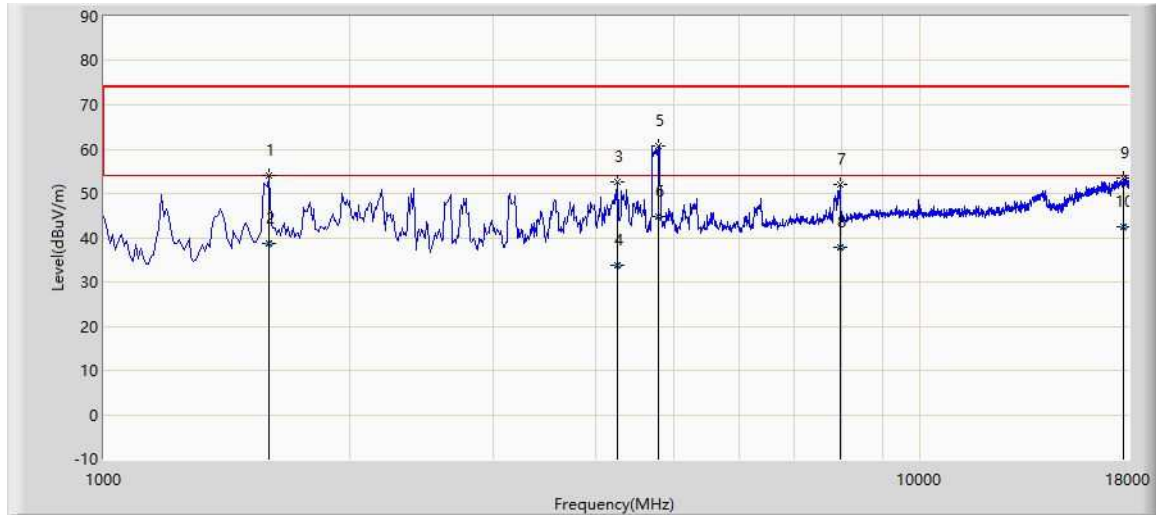
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		74.135	21.101	6.500	-18.899	40.000	14.601	QP
2		243.885	22.454	5.800	-23.546	46.000	16.654	QP
3		499.480	29.802	6.700	-16.198	46.000	23.102	QP
4	*	593.085	37.261	12.000	-8.739	46.000	25.261	QP
5		935.980	31.924	2.600	-14.076	46.000	29.324	QP
6		1000.000	34.127	4.000	-19.873	54.000	30.127	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: SIP-AC3	Time: 2023/08/28 - 15:58
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz-AC3	Polarity: Horizontal
EUT: HOST D	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



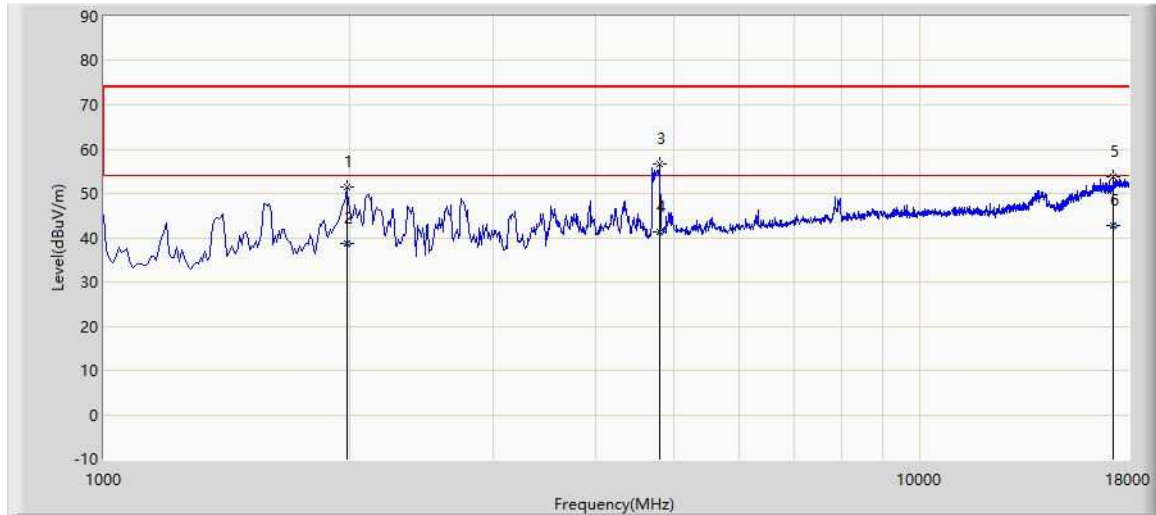
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		1595.000	54.177	70.782	-19.823	74.000	-16.605	PK
2		1595.000	38.685	55.290	-15.315	54.000	-16.605	AV
3		4264.000	52.717	60.907	-21.283	74.000	-8.190	PK
4		4264.000	33.710	41.900	-20.290	54.000	-8.190	AV
5		4774.000	60.787	68.201	-13.213	74.000	-7.414	PK
6	*	4774.000	44.786	52.200	-9.214	54.000	-7.414	AV
7		7987.000	52.173	55.891	-21.827	74.000	-3.718	PK
8		7987.000	37.782	41.500	-16.218	54.000	-3.718	AV
9		17745.000	53.544	46.048	-20.456	74.000	7.496	PK
10		17745.000	42.396	34.900	-11.604	54.000	7.496	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Time: 2023/08/28 - 16:02
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: HF907 102861 1-18GHz-AC3	Polarity: Vertical
EUT: HOST D	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



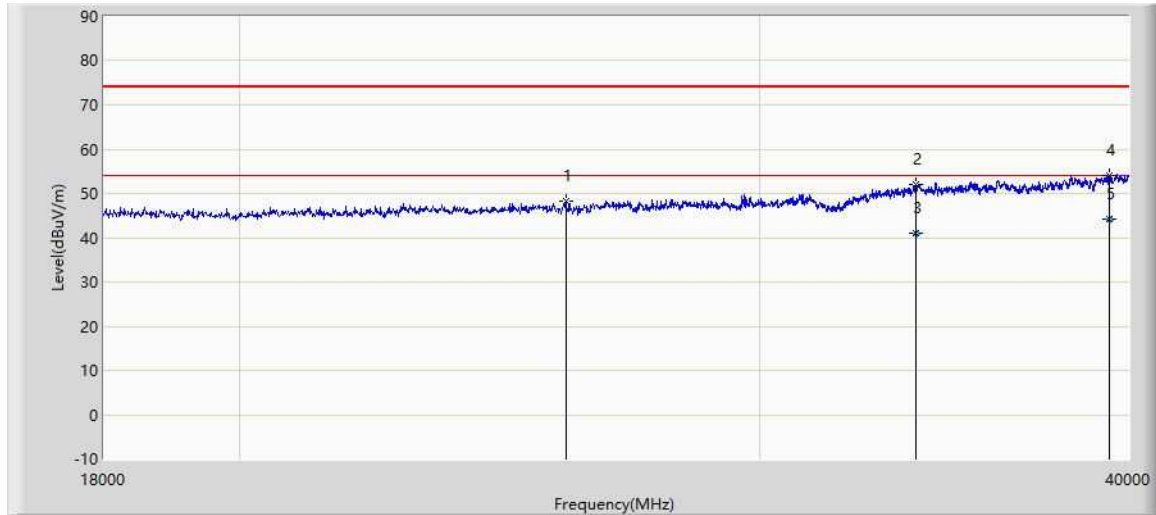
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		1986.000	51.591	66.036	-22.409	74.000	-14.445	PK
2		1986.000	38.655	53.100	-15.345	54.000	-14.445	AV
3		4791.000	56.558	64.406	-17.442	74.000	-7.848	PK
4		4791.000	41.352	49.200	-12.648	54.000	-7.848	AV
5		17260.500	53.869	46.412	-20.131	74.000	7.457	PK
6	*	17260.500	42.657	35.200	-11.343	54.000	7.457	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC3	Time: 2023/08/28 - 17:20
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz	Polarity: Horizontal
EUT: HOST D	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		25799.000	48.346	56.836	-25.654	74.000	-8.489	PK
2		33884.000	52.073	59.128	-21.927	74.000	-7.055	PK
3		33884.000	41.145	48.200	-12.855	54.000	-7.055	AV
4		39406.000	54.191	54.040	-19.809	74.000	0.151	PK
5	*	39406.000	44.101	43.950	-9.899	54.000	0.151	AV

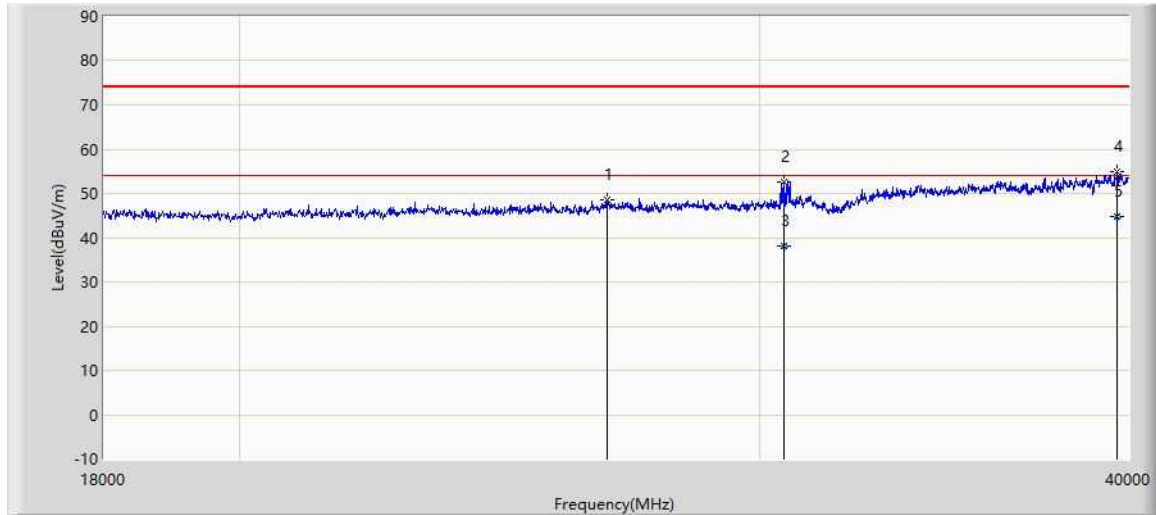
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Site: SIP-AC3	Time: 2023/08/28 - 17:39
Limit: FCC Part15.209 RSE(3m)	Engineer: Barry Wu
Probe: BBHA 9170_00935_18-40GHz	Polarity: Vertical
EUT: HOST D	Power: AC 120V/60Hz
Note: Transmit at 60GHz (61.0GHz - 61.5GHz)	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		26657.000	48.575	55.783	-25.425	74.000	-7.209	PK
2		30595.000	52.636	61.619	-21.364	74.000	-8.983	PK
3		30595.000	38.218	47.200	-15.782	54.000	-8.983	AV
4		39648.000	54.835	53.880	-19.165	74.000	0.955	PK
5	*	39648.000	44.805	43.850	-9.195	54.000	0.955	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 4: Average measurement was not performed when peak measure level was lower than the average limit.

Above 40GHz

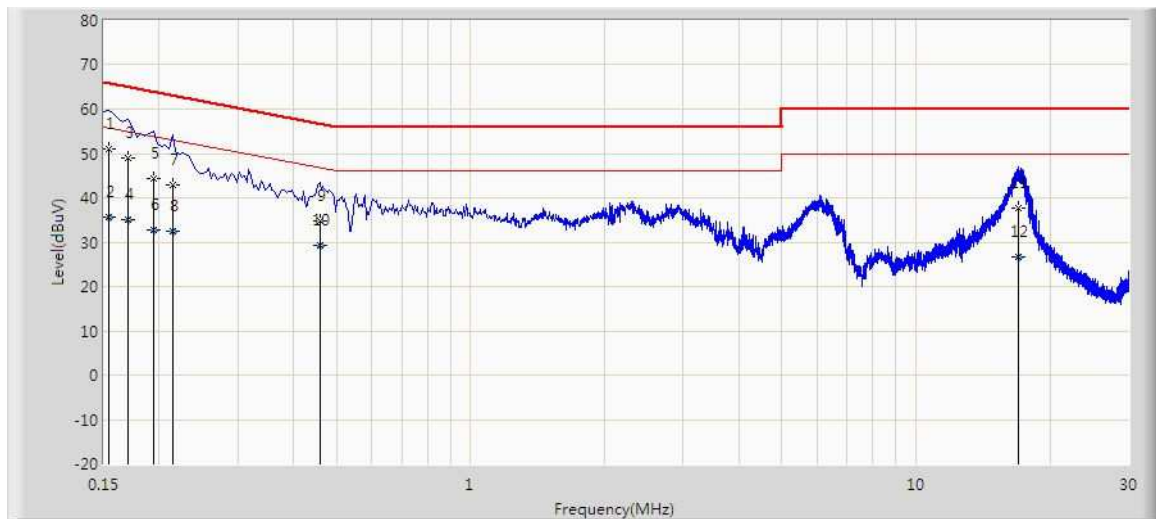
Frequency (GHz)	Reading Level @ 1m (dBμV)	Factor (dB)	Measure Level @ 1m (dBμV/m)	Measure Level @ 3m (dBμV/m)	Power Density (pW/cm ²)	Limit (pW/cm ²)	Polarities	Result
49.064	22.93	46.15	69.08	59.54	0.24	90	Horizontal	Pass
49.1555	22.3	45.78	68.08	58.54	0.19	90	Vertical	Pass
61.911	25.32	41.29	66.61	57.07	0.14	90	Horizontal	Pass
60.795	26.05	41.55	67.6	58.06	0.17	90	Vertical	Pass
83.1315	35.1	44.2	79.3	69.76	2.51	90	Horizontal	Pass
83.4445	35.06	44.23	79.29	69.75	2.50	90	Vertical	Pass
113.351	15.29	57.49	72.78	63.24	0.56	90	Horizontal	Pass
120.725	15.24	57.15	72.39	62.85	0.51	90	Vertical	Pass
153.4526	15.33	60.04	75.37	65.83	1.01	90	Horizontal	Pass
160.3262	15.59	59.7	75.29	65.75	1.00	90	Vertical	Pass

Note:

- Measure Level @ 1m = Reading Level @1m + Factor
Factor (dB) = Cable Loss (dB) + Antenna Factor (dB/m) + Mixer Conversion Loss (dB)
- Measure Level @ 3m = Measure Level @ 1m + 20 * log(1m / 3m)
- Power Density = $(10^8 / 377) * \{10^{[(\text{Measure Level @3m} - 120) / 20]}\}^2$

Appendix A.6: Test Results of Conducted Emission on AC Mains

Site: SIP-SR2	Test Date: 2023/11/24
Temperature: 20.1°C	Humidity: 50.5%
Limit: FCC Part15.107 CE AC Power Class B	Engineer: Miron Ding
Probe: SIP-SR2-ENV216 101684 C	Polarity: Line
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 57.0 - 61.56 GHz	



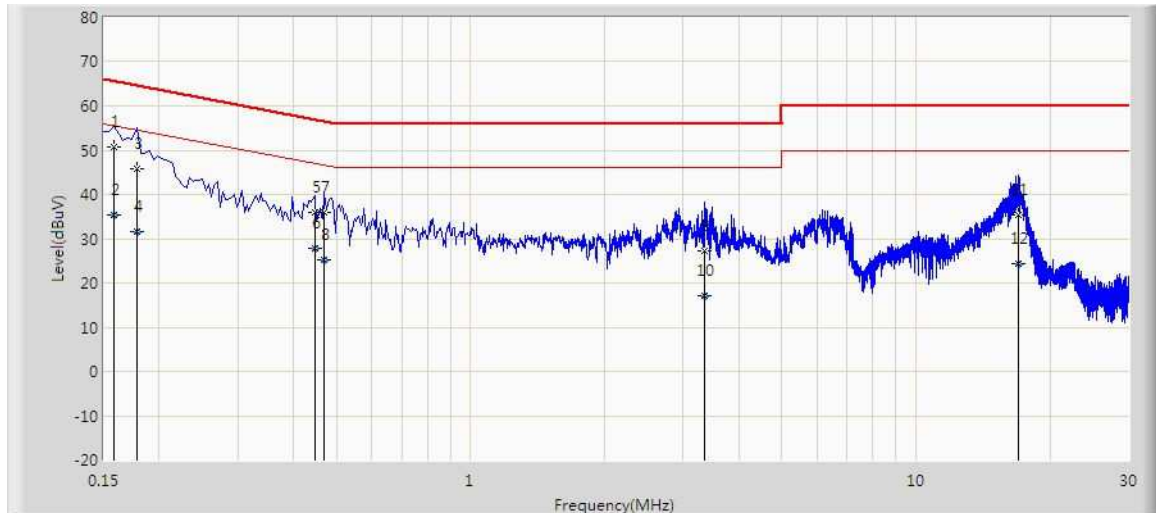
No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1	*	0.154	51.119	41.204	-14.662	65.781	9.915	QP
2		0.154	35.699	25.784	-20.082	55.781	9.915	AV
3		0.170	48.933	38.962	-16.028	64.960	9.971	QP
4		0.170	35.084	25.113	-19.877	54.960	9.971	AV
5		0.194	44.458	34.404	-19.405	63.864	10.055	QP
6		0.194	32.610	22.555	-21.254	53.864	10.055	AV
7		0.214	42.815	32.790	-20.234	63.049	10.025	QP
8		0.214	32.480	22.455	-20.569	53.049	10.025	AV
9		0.458	34.777	25.047	-21.952	56.729	9.730	QP
10		0.458	29.206	19.476	-17.523	46.729	9.730	AV
11		17.006	37.656	27.346	-22.344	60.000	10.310	QP
12		17.006	26.698	16.388	-23.302	50.000	10.310	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: SIP-SR2	Test Date: 2023/11/24
Temperature: 20.1°C	Humidity: 50.5%
Limit: FCC Part15.107 CE AC Power Class B	Engineer: Miron Ding
Probe: SIP-SR2-ENV216 101684 C	Polarity: Neutral
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 57.0 - 61.56 GHz	



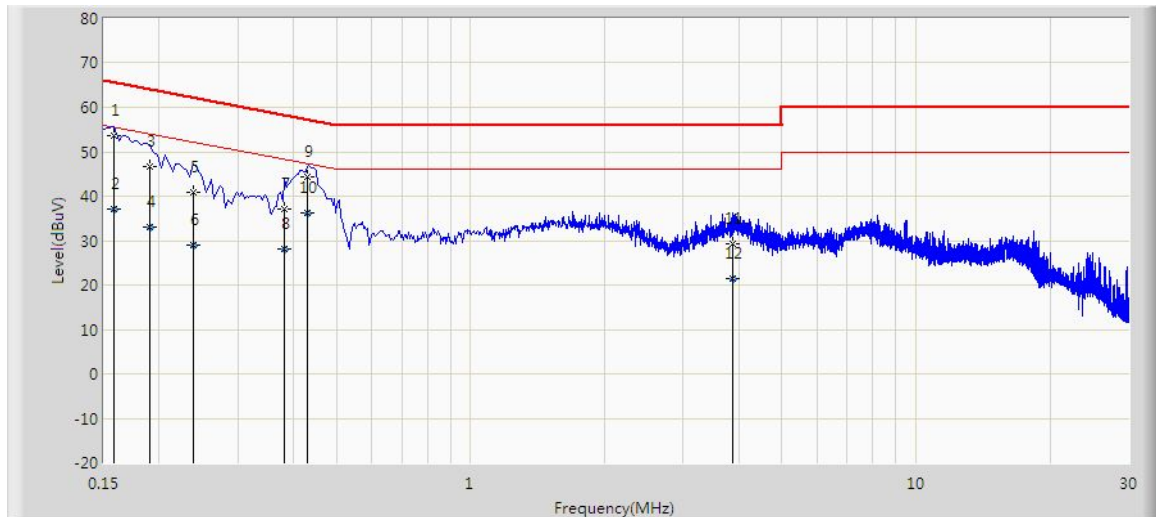
No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1	*	0.158	50.759	41.119	-14.809	65.568	9.640	QP
2		0.158	35.424	25.783	-20.145	55.568	9.640	AV
3		0.178	45.811	36.171	-18.767	64.578	9.640	QP
4		0.178	31.692	22.052	-22.886	54.578	9.640	AV
5		0.446	35.869	26.159	-21.081	56.949	9.710	QP
6		0.446	27.718	18.008	-19.231	46.949	9.710	AV
7		0.470	36.056	26.346	-20.458	56.514	9.710	QP
8		0.470	25.349	15.639	-21.165	46.514	9.710	AV
9		3.346	27.136	17.341	-28.864	56.000	9.794	QP
10		3.346	17.170	7.375	-28.830	46.000	9.794	AV
11		16.986	35.484	25.211	-24.516	60.000	10.273	QP
12		16.986	24.365	14.092	-25.635	50.000	10.273	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: SIP-SR2	Time: 2023/09/07 - 17:37
Temperature: 26.5°C	Humidity: 65.5%
Limit: FCC Part15.207 CE AC Power	Engineer: Mark Long
Probe: SIP-SR2-ENV216 101684 C	Polarity: Line
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 61.0 - 61.5 GHz	



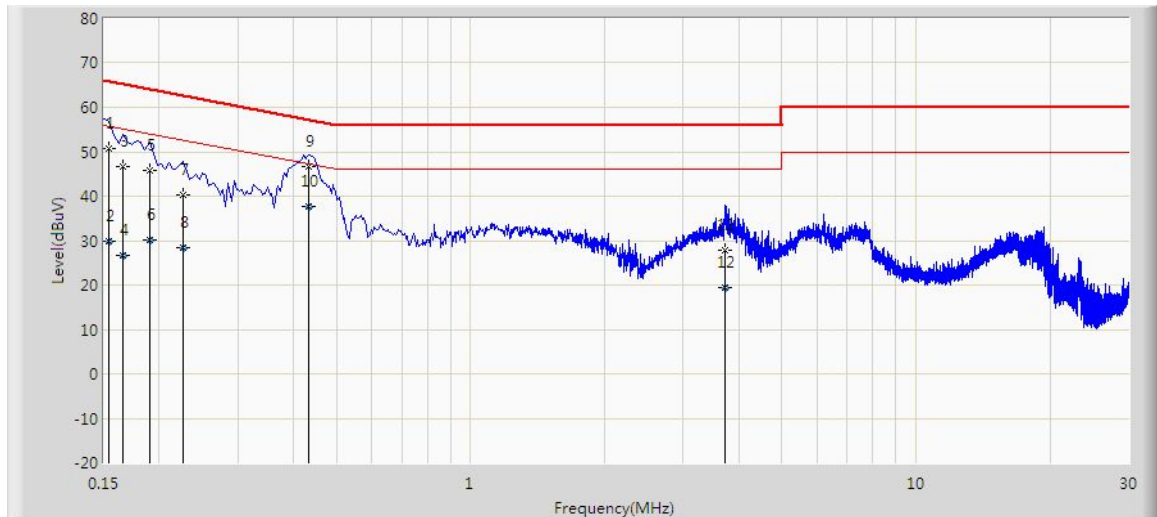
No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		0.158	53.524	43.601	-12.044	65.568	9.923	QP
2		0.158	37.015	27.092	-18.554	55.568	9.923	AV
3		0.190	46.771	36.711	-17.266	64.037	10.060	QP
4		0.190	33.100	23.040	-20.937	54.037	10.060	AV
5		0.238	40.851	30.945	-21.315	62.166	9.906	QP
6		0.238	28.979	19.073	-23.187	52.166	9.906	AV
7		0.382	37.236	27.505	-21.000	58.236	9.731	QP
8		0.382	28.028	18.297	-20.208	48.236	9.731	AV
9		0.430	44.360	34.630	-12.892	57.253	9.730	QP
10	*	0.430	36.090	26.360	-11.163	47.253	9.730	AV
11		3.886	29.349	19.500	-26.651	56.000	9.849	QP
12		3.886	21.450	11.601	-24.550	46.000	9.849	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: SIP-SR2	Time: 2023/09/07 - 17:41
Temperature: 26.5°C	Humidity: 65.5%
Limit: FCC Part15.207 CE AC Power	Engineer: Mark Long
Probe: SIP-SR2-ENV216 101684 C	Polarity: Neutral
EUT: Presence Sensor Module GR8V23	Power: Powered by USB Port DC 5.0V via PC with input voltage 120Vac, 60Hz
Test Mode: Transmit on 61.0 - 61.5 GHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		0.154	50.784	41.143	-14.997	65.781	9.641	QP
2		0.154	29.933	20.292	-25.849	55.781	9.641	AV
3		0.166	46.645	37.005	-18.514	65.158	9.640	QP
4		0.166	26.777	17.137	-28.381	55.158	9.640	AV
5		0.190	45.941	36.288	-18.095	64.037	9.654	QP
6		0.190	30.278	20.625	-23.758	54.037	9.654	AV
7		0.226	40.381	30.696	-22.214	62.595	9.686	QP
8		0.226	28.386	18.700	-24.209	52.595	9.686	AV
9		0.434	46.798	37.088	-10.378	57.176	9.710	QP
10	*	0.434	37.658	27.948	-9.518	47.176	9.710	AV
11		3.726	27.714	17.897	-28.286	56.000	9.817	QP
12		3.726	19.557	9.740	-26.443	46.000	9.817	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).