

FCC PART 15C TEST REPORT FOR CERTIFICATION

On Behalf of

Sony Group Corporation

Wireless Stereo Headset

YY2962

FCC ID: AK8YY2962

Prepared for : Sony Group Corporation
1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

Prepared By : Audix Technology (Shenzhen) Co., Ltd.
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TESTING

NVLAP LAB CODE 200372-0

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Date of Test : Jun.27~Jul.08, 2022
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Appendix A. Photograph of Test
Appendix B. Photo of the EUT

TEST REPORT

Applicant : Sony Group Corporation
Manufacturer : Sony Group Corporation
Product : Wireless Stereo Headset
FCC ID : AK8YY2962
(A) Model No. : YY2962
(B) Test Voltage : (1)DC 5V From PC input AC 100V/50Hz
(2)DC 3.7V From battery

Tested for comply with:
FCC CFR47 Part 15 Subpart C

Test procedure used:
ANSI C63.10: 2020

The device described above is tested by Audix Technology (Shenzhen) Co., Ltd. to confirm comply with all the FCC Part 15 Subpart C requirements. The test results are contained in this test report and Audix Technology (Shenzhen) Co., Ltd. is assumed full responsibility for the accuracy and completeness of these tests. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements. This report contains data that are not covered by the NVLAP accreditation.

This Report is made under FCC Part 2.1074. No modifications were required during testing to bring this product into compliance.

This report applies to single evaluation of one sample of above mentioned product. And shall not be reproduced in part without written approval of Audix Technology (Shenzhen) Co., Ltd..

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government.

Date of Test : Jun.27~Jul.08, 2022 Report of date: Jul.18, 2022

Prepared by : Mia Zhao Reviewed by : Sunny Lu
Mia Zhao / Assistant Sunny Lu / Manager



1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT has been tested according to the applicable standards as referenced below.

EMISSION		
Description of Test Item	Standard	Results
Power Line Conducted Emission Test	FCC Part 15: 15.207 ANSI C63.10: 2020	PASS
Radiated Emission Test	FCC Part 15 15.209 FCC Part 15 15.205 FCC Part 15 15.247(d) ANSI C63.10: 2020	PASS
Conducted Spurious Emissions	FCC Part 15: 15.247(d) ANSI C63.10: 2020	PASS
Carrier Frequency Separation Test	FCC Part 15: 15.247(a)(1) ANSI C63.10: 2020	PASS
20dB & 99% Bandwidth Test	FCC Part 15: 15.215 ANSI C63.10: 2020	PASS
Number Of Hopping Frequency Test	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10: 2020	PASS
Dwell Time Test	FCC Part 15: 15.247(a)(1)(iii) ANSI C63.10: 2020	PASS
Maximum Peak Output Power Test	FCC Part 15 15.247(b)(1) ANSI C63.10: 2020	PASS
Band Edge Compliance Test	FCC Part 15 15.247(d) ANSI C63.10: 2020	PASS
Note: Measurement uncertainty affection to the result is considered, the EUT is technically compliant with standard requirements.		

2. GENERAL INFORMATION

2.1. Description of Equipment Under Test

Applicant	Sony Group Corporation
Applicant Address	1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Manufacturer	Sony Group Corporation
Manufacturer Address	1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Factory	Tokumi Electronics Thai Co., Ltd.
Factory Address	112/3 Moo 1, Mitrapap Sub-district, Sikhiu District, Nakhonratchasima 30140, Thailand
Product	Wireless Stereo Headset
Model No.	YY2962
FCC ID	AK8YY2962
Sample Type	Prototype production
Date of Receipt	Jun.17, 2022
Date of Test	Jun.27~Jul.08, 2022
Remark: This report only for BDR+EDR.	

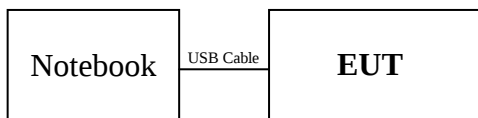
Product Feature & Specification		
Product	Wireless Stereo Headset	
Model No.	YY2962	
Power Source	☐ Commercial Power	AC V
	☒ External Power Source	DC 5V
	☒ Li-ion Battery	DC 3.7V
	☐ UM battery	DC V

Bluetooth	
Radio	Bluetooth V3.0+EDR
Frequency Range	2402-2480MHz
Type of Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Data Rate	1Mbps, 2Mbps, 3Mbps
Quantity of Channels	79
Channel Separation	1MHz
Antenna System	
Type of Antenna	Chip Antenna
Antenna Peak Gain	1.2dBi

2.2. Tested Supporting System Details

No.	Description	ACS No.	Manufacturer	Model	Serial Number
1.	Notebook	N/A	DELL	PP09S	N/A
		Power Cord: Unshielded, Detachable, 1.8m Power Adapter: Manufacturer: DELL, M/N: LA65NS1-00 Cable: Unshielded, Detachable, 4.0m(Bond one ferrite core)			
2.	USB Cable	Unshielded, Detachable, 0.3m			

2.3. Block Diagram of connection between EUT and simulators



(EUT: Wireless Stereo Headset)

2.4. Test information

A special software(RF Tool-V5.2.2.16) was used to control EUT work in continuous TX mode (GFSK, $\pi/4$ DQPSK, 8-DPSK Modulation)

Tested mode, data rate, channel, and Power setting information			
Mode	data rate (Mbps)	Channel	Frequency (MHz)
Tx Mode GFSK modulation	1	Low :CH 0	2402
	1	Middle: CH39	2441
	1	High: CH78	2480
Tx Mode 8-DPSK modulation	3	Low :CH 0	2402
	3	Middle: CH39	2441
	3	High: CH78	2480
Note: $\pi/4$ DQPSK modulation is same type modulation with 8-DPSK, and according exploratory test, 8-DPSK will have worse emissions, so the final test were only performed with GFSK and 8-DPSK modulation.			

Power setting:

Crystal Cap Value		0x3b
Tx Setting	Max TxPower of Legacy 1M	0x39
	Max TxPower of Legacy 2M	0x40
	Max TxPower of Legacy 3M	0x40
	Tx Power of LE 1M/LR	0x2c
	Tx Power of LE 2M	0x2c

2.5. Test Facility

Site Description

Name of Firm : Audix Technology (Shenzhen) Co., Ltd.
No. 6, Kefeng Road, Science & Technology Park,
Nanshan District , Shenzhen, Guangdong, China

EMC Lab. : Certificated by ISED, Canada
Company Number: 5183A
CAB identifier: CN0034
Valid Date: Mar.31, 2023

: Certificated by FCC, USA
Designation No.: CN5022
Valid Date: Mar.31, 2023

: Accredited by NVLAP, USA
NVLAP Code: 200372-0
Valid Date: Mar.31, 2023

2.6. Measurement Uncertainty (95% confidence levels, k=2)

Test Item	Uncertainty
Uncertainty for Conduction emission test in No. 1 Conduction	2.6dB(150kHz to 30MHz)
Uncertainty for Radiation Emission test in 3m chamber	3.4dB(30~200MHz, Polarization: H)
	3.6dB(30~200MHz, Polarization: V)
	3.0dB(200M~1GHz, Polarization: H)
	3.2dB(200M~1GHz, Polarization: V)
Uncertainty for Radiation Emission test in 3m chamber (1GHz~18GHz)	4.6dB(1GHz~6GHz)
	4.8dB(6GHz~18GHz)
Uncertainty for Conduction Spurious emission test	2.0dB
Uncertainty for Output power test	0.8dB
Uncertainty for Bandwidth test	83kHz
Uncertainty for DC power test	1.0%
Uncertainty for test site temperature and humidity	0.6℃
	3%

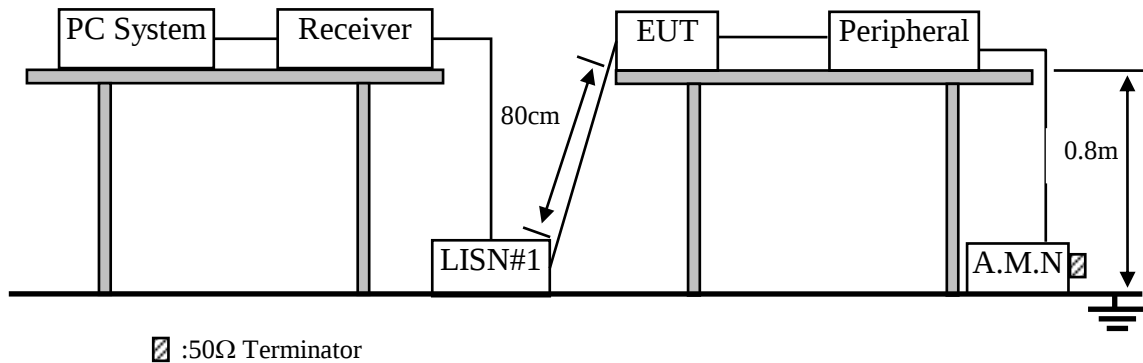
3. POWER LINE CONDUCTED EMISSION TEST

3.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	1# Shielding Room	AUDIX	N/A	N/A	May.17,18	5 Year
2.	EMI Test Receiver	Rohde & Schwarz	ESCI	100842	Apr.07,22	1 Year
3.	L.I.S.N.#1	Rohde & Schwarz	ENV216	102160	Oct.09,21	1 Year
4.	A.M.N	Kyoritsu	KNW-403D	8-1750-2	Apr.06,22	1 Year
5.	Terminator	Hubersuhner	50Ω	No.1	Apr.06,22	1 Year
6.	Terminator	Hubersuhner	50Ω	No.2	Apr.06,22	1 Year
7.	RF Cable	EMCI	EMCCFD300-BM-NM-2000	190422	Apr.06,22	1 Year
8.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

3.2. Block Diagram of Test Setup



3.3. Power Line Conducted Emission Test Limits

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μV)	Average Level dB(μV)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limits shall apply at the transition frequencies.

3. Emission Level (dBμV) = Factor (L.I.S.N.) (dB) + Cable Loss (dB) + Reading (Receiver) (dBμV)

3.4. Configuration of EUT on Test

The following equipment are installed on Power Line Conducted Emission Test to meet the commission requirement and operating regulations in a manner which tends to maximize its emission characteristics in a normal application.

3.4.1. Wireless Stereo Headset (EUT)

Model Number : YY2962

Serial Number : N/A

3.4.2. Support Equipment: As Tested Supporting System Details, in Section 2.2.

3.5.Operating Condition of EUT

- 3.5.1. Setup the EUT and simulator as shown as Section 3.2.
- 3.5.2. Turn on the power of all equipments.
- 3.5.3. PC run test software to control EUT work in Tx mode.

3.6.Test Procedure

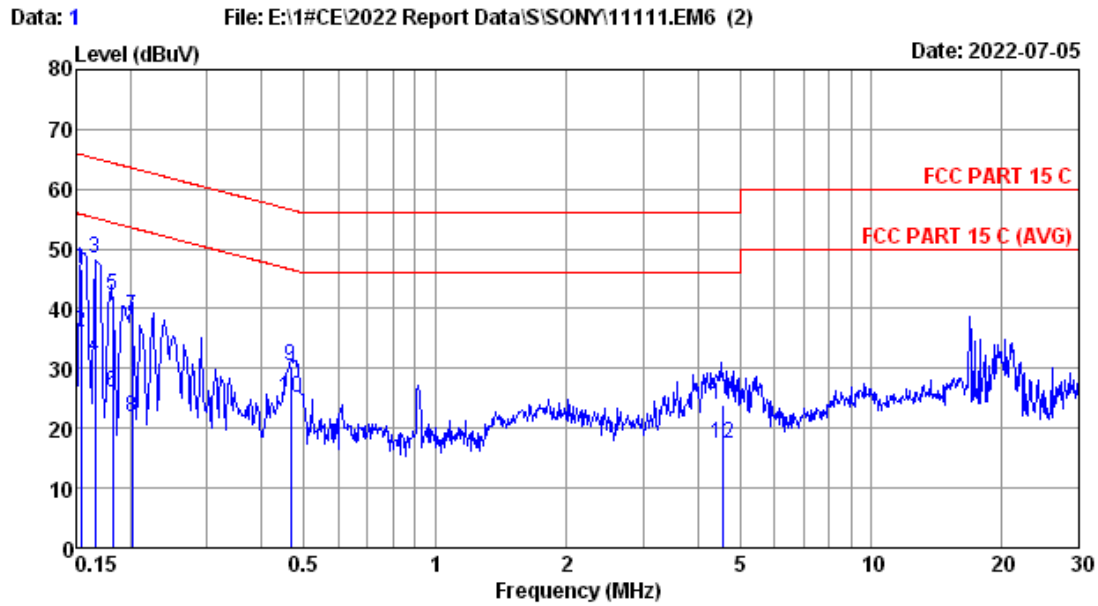
The EUT was placed on a non-metallic table, 80cm above the ground plane. The EUT Power Via AC unit connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESCI) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.7.Power Line Conducted Emission Test Results

PASS. (All emissions not reported below are too low against the prescribed limits.)

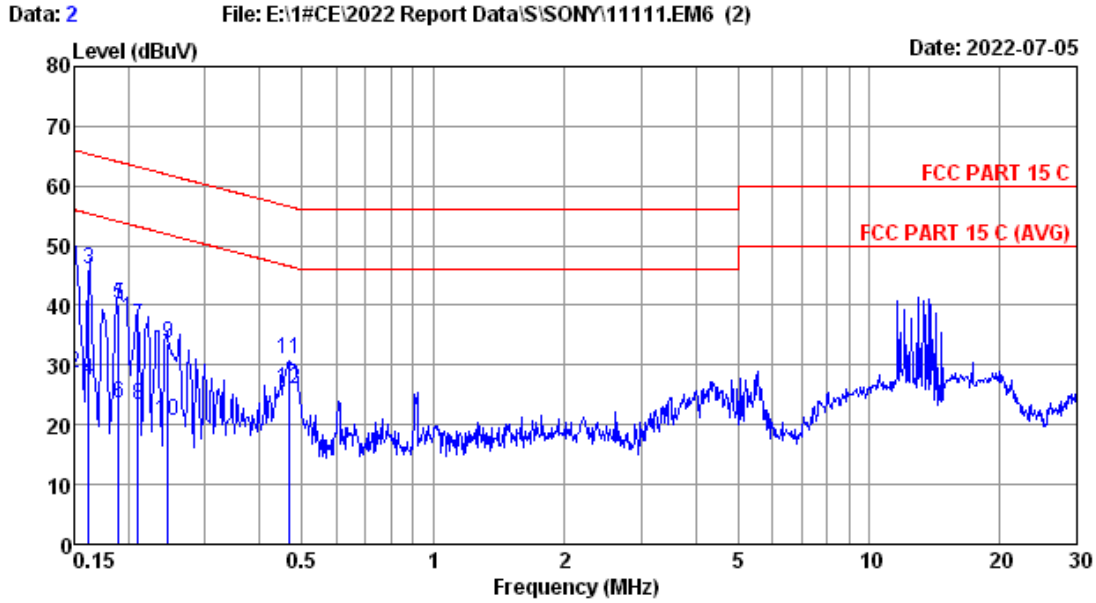


Site no :1# Conduction
 Dis./Lisn :2021 ENV216-L
 Limit :FCC PART 15 C
 Env./Ins. :24.5°C/55%
 EUT :YY2962
 Power Rating :AC 120V/60Hz
 Test Mode :BT 3.0

Data No :1
 LISN phase:
 Engineer :Evan

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.154	9.50	0.01	37.10	46.61	65.78	19.17	QP
2	0.154	9.50	0.01	26.60	36.11	55.78	19.67	Average
3	0.166	9.50	0.01	38.90	48.41	65.16	16.75	QP
4	0.166	9.50	0.01	22.50	32.01	55.16	23.15	Average
5	0.182	9.50	0.01	32.80	42.31	64.39	22.08	QP
6	0.182	9.50	0.01	16.40	25.91	54.39	28.48	Average
7	0.202	9.50	0.01	29.10	38.61	63.53	24.92	QP
8	0.202	9.50	0.01	12.30	21.81	53.53	31.72	Average
9	0.466	9.50	0.01	20.80	30.31	56.58	26.27	QP
10	0.466	9.50	0.01	15.70	25.21	46.58	21.37	Average
11	4.558	9.60	0.04	14.20	23.84	56.00	32.16	QP
12	4.558	9.60	0.04	7.90	17.54	46.00	28.46	Average

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.



Site no :1# Conduction
 Dis./Lish :2021 ENV216-N
 Limit :FCC PART 15 C
 Env./Ins. :24.5°C/55%
 EUT :YY2962
 Power Rating :AC 120V/60Hz
 Test Mode :BT 3.0

Data No :2
 LISN phase:
 Engineer :Evan

No	Freq (MHz)	LISN Factor (dB)	Cable loss (dB)	Reading (dBuV)	Emission Level (dBuV)	Limits (dBuV)	Margin (dB)	Remark
1	0.150	10.00	0.01	37.80	47.81	66.00	18.19	QP
2	0.150	10.00	0.01	18.70	28.71	56.00	27.29	Average
3	0.162	10.00	0.01	36.10	46.11	65.36	19.25	QP
4	0.162	10.00	0.01	17.30	27.31	55.36	28.05	Average
5	0.190	10.00	0.01	30.20	40.21	64.04	23.83	QP
6	0.190	10.00	0.01	13.50	23.51	54.04	30.53	Average
7	0.210	10.01	0.01	26.60	36.62	63.21	26.59	QP
8	0.210	10.01	0.01	13.20	23.22	53.21	29.99	Average
9	0.246	10.02	0.01	23.50	33.53	61.89	28.36	QP
10	0.246	10.02	0.01	10.50	20.53	51.89	31.36	Average
11	0.466	10.09	0.01	21.00	31.10	56.58	25.48	QP
12	0.466	10.09	0.01	15.90	26.00	46.58	20.58	Average

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
 2.If the average limit is met when using a quasi-peak detector.
 the EUT shall be deemed to meet both limits and measurement
 with average detector is unnecessary.

4. RADIATED EMISSION TEST

4.1. Test Equipments

Frequency range: 30~1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber(NSA)	AUDIX	N/A	N/A	May.02,22	1 Year
2.	3#Chamber(SE)	AUDIX	N/A	N/A	May.17,18	5 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	104051	Apr.06,22	1 Year
4.	EMI Test Receiver	Rohde & Schwarz	ESR7	101547	Apr.06,22	1 Year
5.	Amplifier	HP	8447D	2944A11159	Apr.06,22	1 Year
6.	Tri-log-Broadband Antenna	SCHWARZBECK	VULB 9168	710	Dec.13,21	1 Year
7.	NSA Cable	HUBER+SUHNER	CFD400NL-LW	No.3	Oct.09,21	1 Year
8.	Coaxial Switch	Anritsu	MP59B	6201397223	Apr.06,22	1 Year
9.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

Note: N/A means Not applicable.

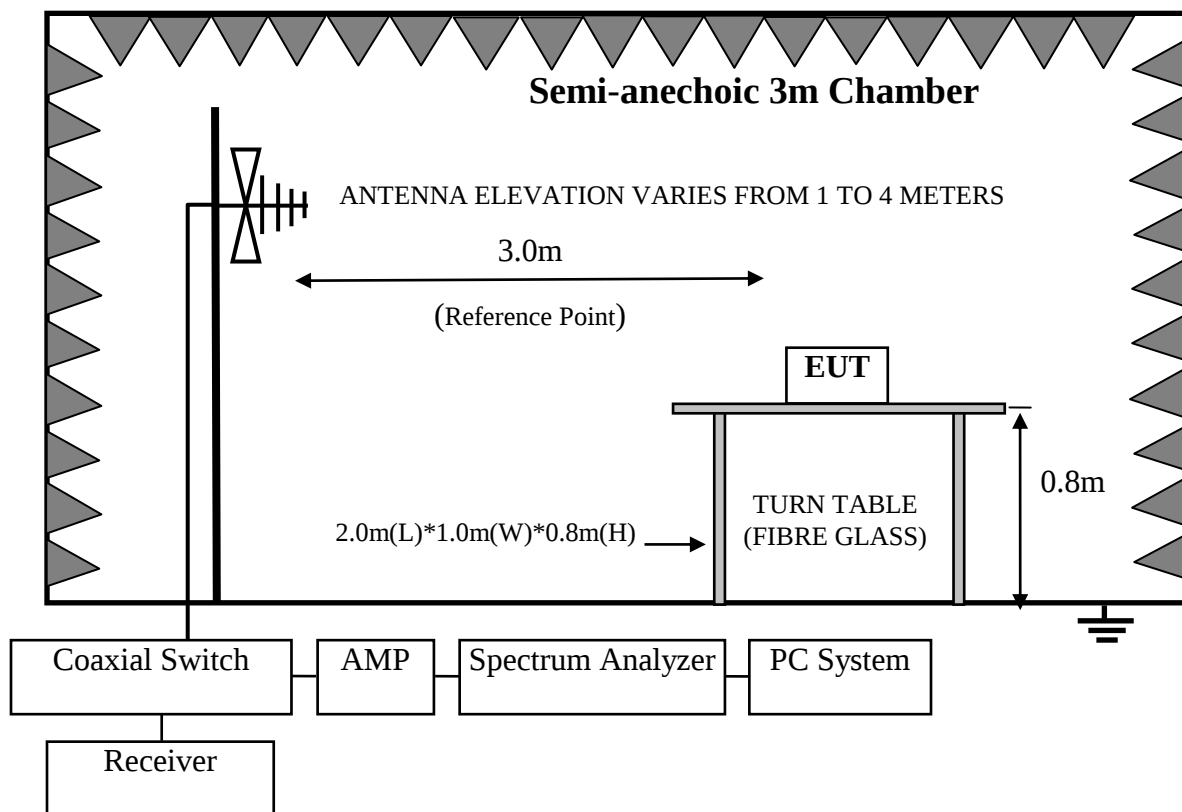
Frequency range: above 1000MHz

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	3#Chamber(Svswr)	AUDIX	N/A	N/A	Apr.14,22	1 Year
2.	3#Chamber(SE)	AUDIX	N/A	N/A	May.17,18	5 Year
3.	Signal Analyzer	Rohde & Schwarz	FSV30	104051	Apr.06,22	1 Year
4.	Horn Antenna	ETC	MCTD 1209	DRH15F03006	Jul.26,21	1 Year
5.	Amplifier	Agilent	83017A	MY53270084	Oct.09,21	1 Year
6.	RF Cable	EMCI	EMC104-SM-SM-15000	190407	Jul.14,21	1 Year
7.	Test Software	AUDIX	e3	6.100913a	N/A	N/A

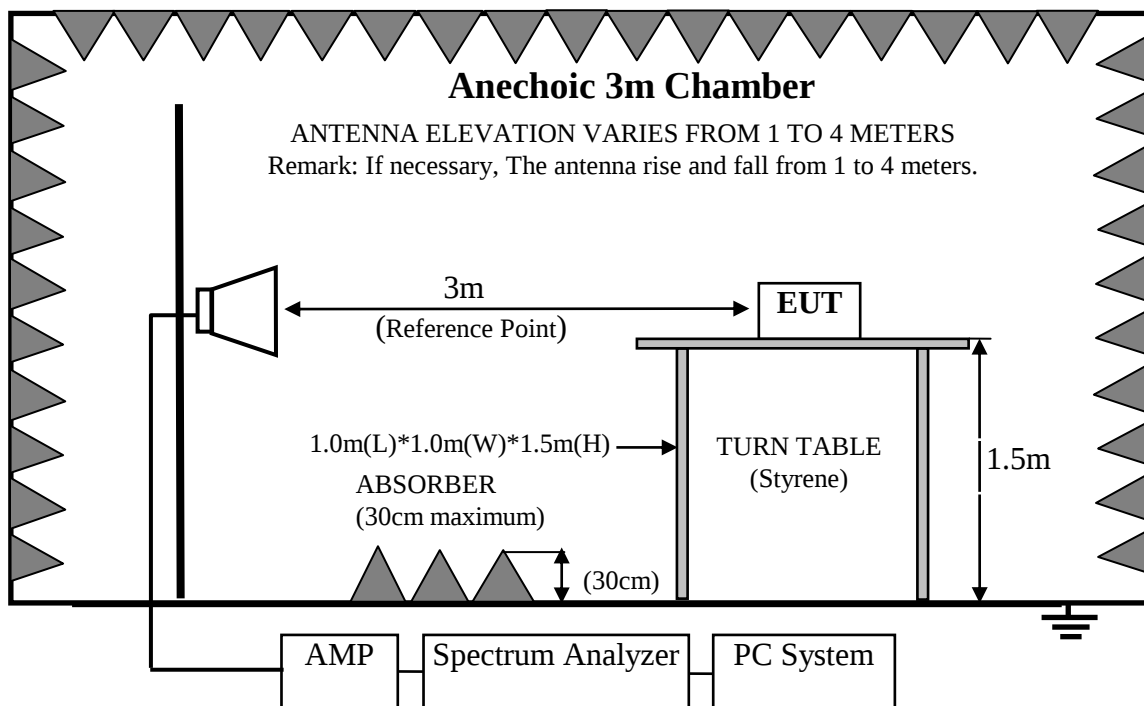
Note: N/A means Not applicable.

4.2. Block Diagram of Test Setup

For frequency range 30MHz-1000MHz



For frequency range 1GHz-25GHz



4.3.Radiated Emission Limits Standard:

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000MHz	3	74.0 $\text{dB}(\mu\text{V})/\text{m}$ (Peak) 54.0 $\text{dB}(\mu\text{V})/\text{m}$ (Average)	

Remark : (1) Emission level $\text{dB}\mu\text{V} = 20 \log$ Emission level $\mu\text{V/m}$

(2) Emission Level ($\text{dB}\mu\text{V/m}$) = Reading (Receiver) ($\text{dB}\mu\text{V}$) + Antenna Factor (dB/m) + Cable Loss (dB)

Emission Level ($\text{dB}\mu\text{V/m}$) = Reading (Spectrum) ($\text{dB}\mu\text{V}$) + Antenna Factor (dB/m) – Amp Factor (dB) + Cable Loss (dB)(above 1000MHz)

(3) The smaller limit shall apply at the cross point between two frequency bands.

(4) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

(5)The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4.EUT Configuration on Test

The following equipment are installed on Radiated Emission Test to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

4.4.1. Wireless Stereo Headset (EUT)

Model Number : YY2962

Serial Number : N/A

4.5.Operating Condition of EUT

4.5.1. Setup the EUT and simulator as shown as Section 4.2.

4.5.2. Turn on the power of all equipments.

4.5.3. Let EUT work in Tx mode.

4.6. Test Procedure

Frequency below 30MHz:

The EUT setup on the turn table which has 0.8 m height to the ground. The turn table rotated 360 degrees and antenna fixed to 1 m to find the maximum emission level. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 regulation.

EUT and its simulators are placed on a turn table, which is 0.8 meter high above ground for frequency 30MHz~1000MHz, 1.5 meter high above ground for frequency above 1GHz and put the absorbing with 2.4m(L)*2.4m(W)*0.3m(H) on the ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna for frequency 30MHz~1000MHz, and the Horn antenna is used as receiving antenna for frequency above 1GHz. Both horizontal and vertical polarization of the antenna is set on Test. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.10 on radiated emission Test.

This test was performed with EUT in X, Y, Z position, and the worse case was found when EUT in X position as the test photo indicated.

The bandwidth of the EMI test receiver (R&S ESR7) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's RBW is set at 1MHz and VBW is set at 3MHz for peak emissions measurement above 1GHz

This device is pulse Modulated, a duty cycle factor was used to calculated average level based measured peak level.

The frequency range from 30MHz to 10th harmonic (25GHz) are checked. and no any emissions were found from 18GHz to 25 GHz, So the radiated emissions from 18GHz to 25GHz were not record.

4.7. Radiated Emission Test Results

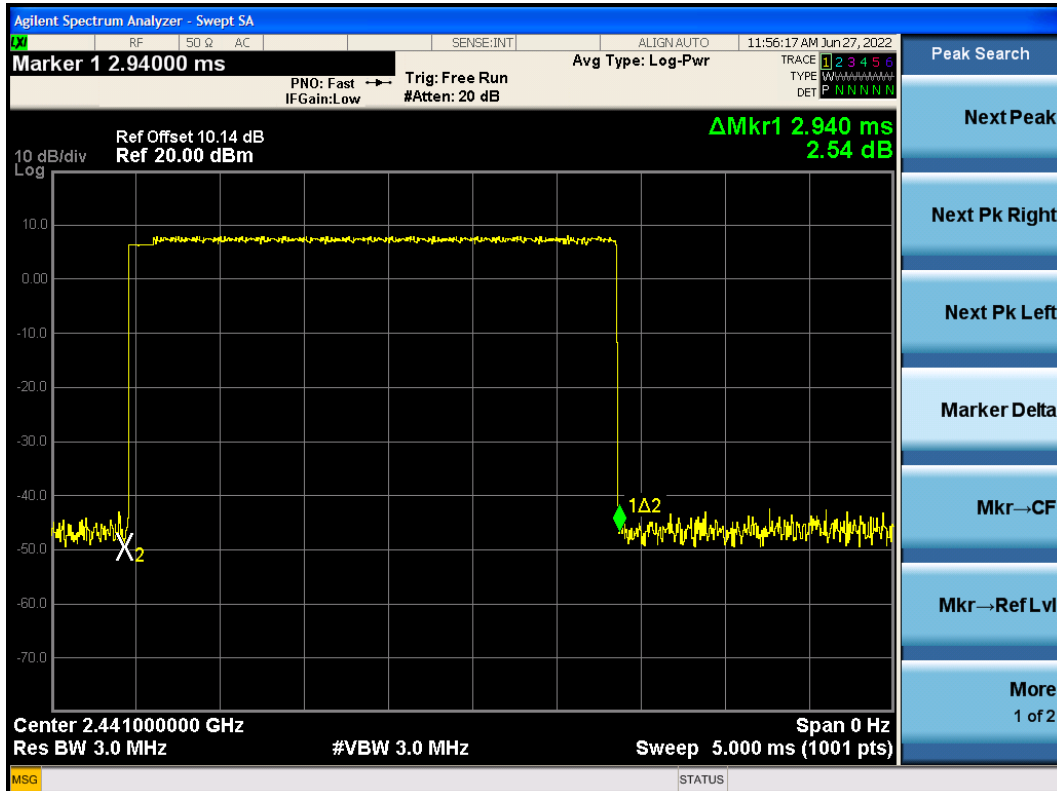
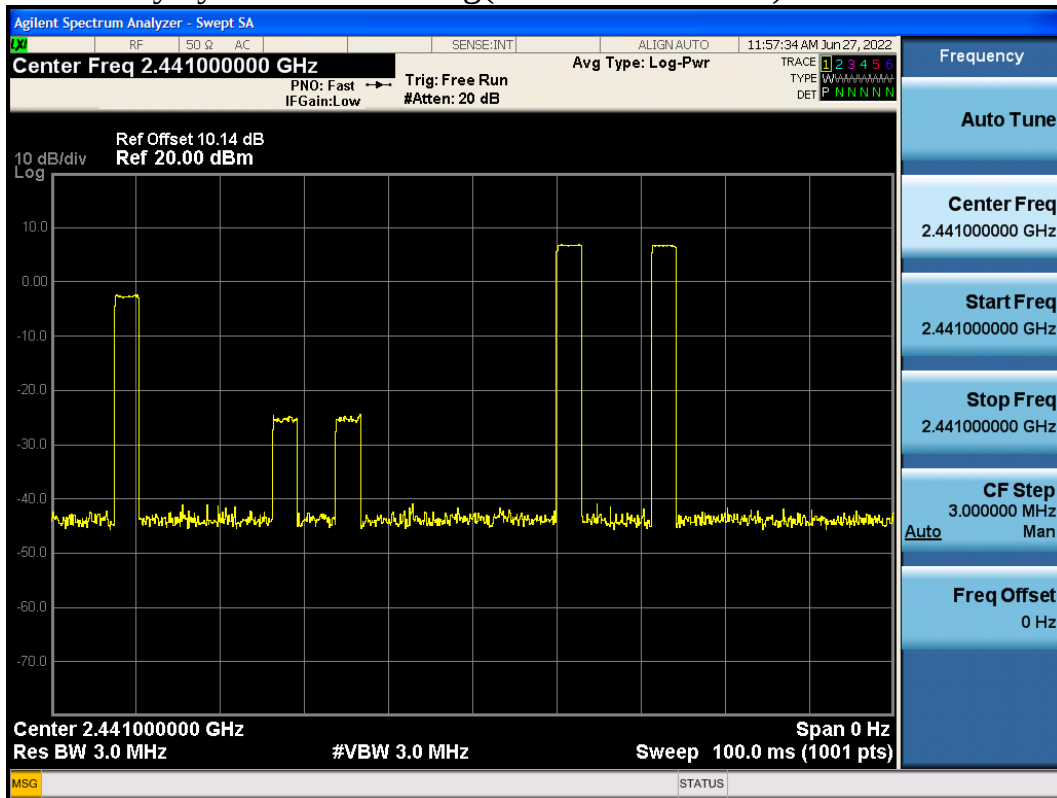
PASS.

All the emissions from 30MHz to 25GHz were comply with the 15.209 Limit.

Note 1: The duty cycle factor for calculate average level is -16.654dB, and average limit is 20dB below peak limit, so if peak measured level comply with average limit, the average level was deemed to comply with average limit.

Note 2: The emissions (9kHz~30MHz) not reported for there is no emission be found.

$$\text{Duty cycle factor} = 20\log(\text{Dwell time}/100\text{ms}) = -16.654\text{dB}$$

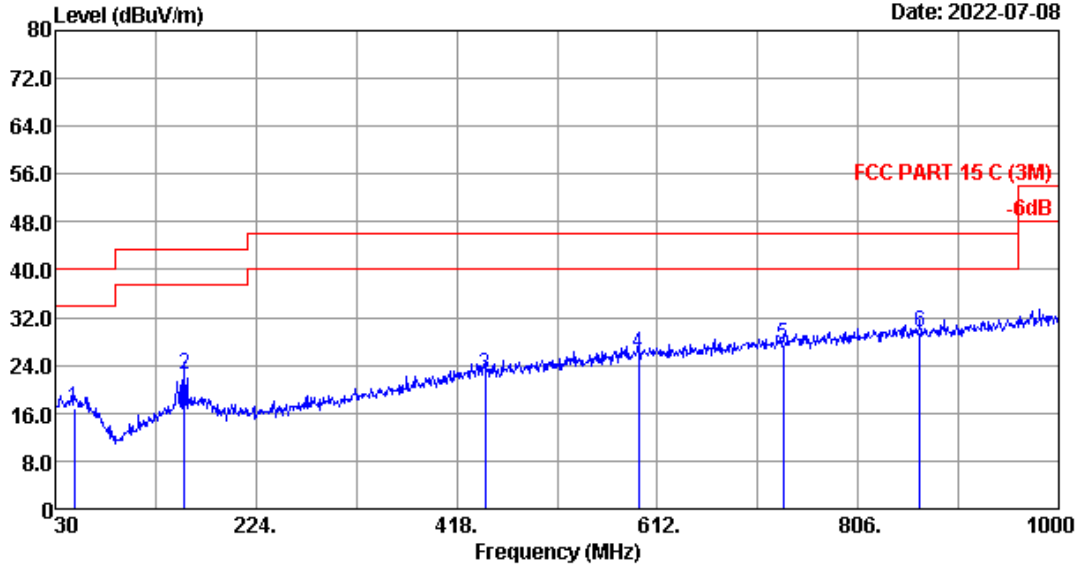


Frequency: 30MHz~1GHz

Data: 1

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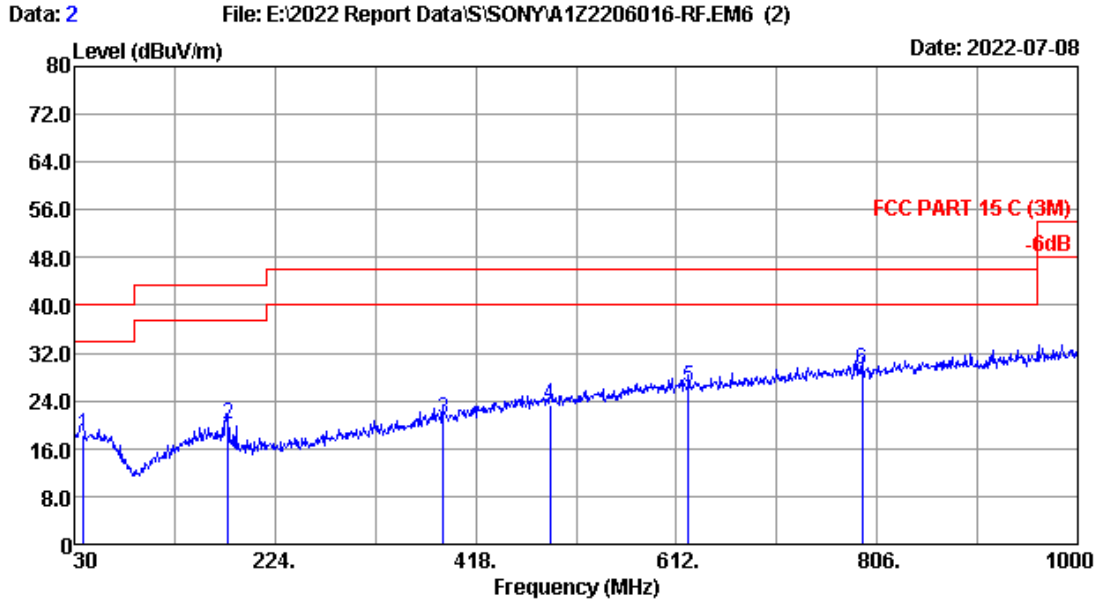
Date: 2022-07-08



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2021 VULB9168-710 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 25.1°C/55% Engineer : Abel
 Test Mode : BT 3.0 TX

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	48.430	20.30	0.75	-4.17	16.88	40.00	23.12	QP
2	155.130	19.65	1.24	1.57	22.46	43.50	21.04	QP
3	445.160	23.37	2.16	-3.08	22.45	46.00	23.55	QP
4	593.570	25.85	2.57	-2.33	26.09	46.00	19.91	QP
5	733.250	27.53	2.91	-3.08	27.36	46.00	18.64	QP
6	866.140	28.73	3.27	-2.35	29.65	46.00	16.35	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

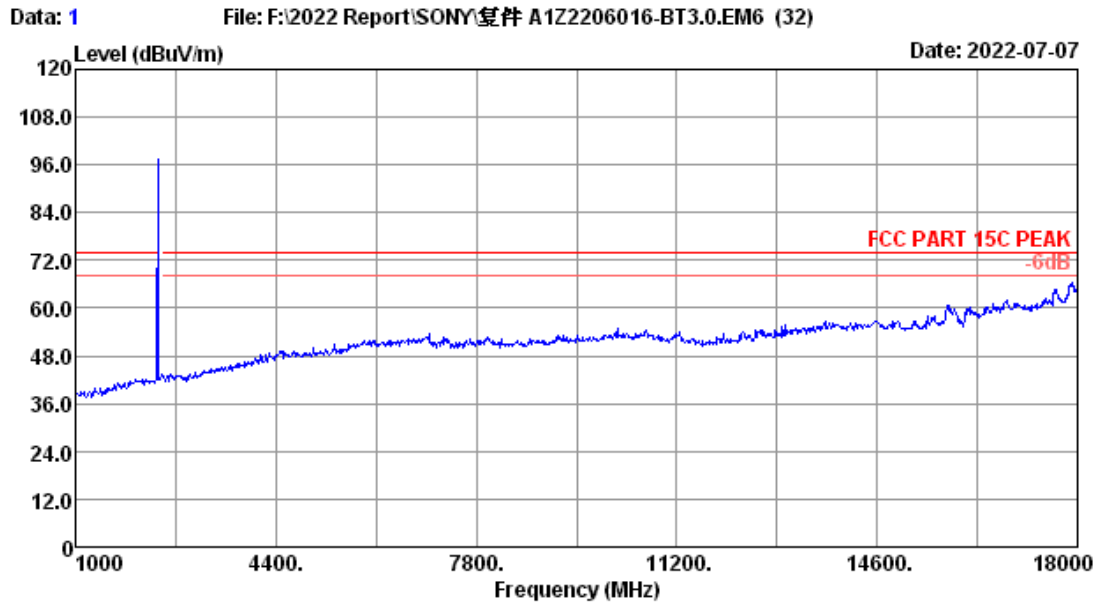


Site no.	: 3m Chamber	Data no.	: 2
Dis. / Ant.	: 3m 2021 VULB9168-710	Ant. pol.	: VERTICAL
Limit	: FCC PART 15 C (3M)		
Env. / Ins.	: 25.1°C/55%	Engineer	: Abel
Test Mode	: BT 3.0 TX		

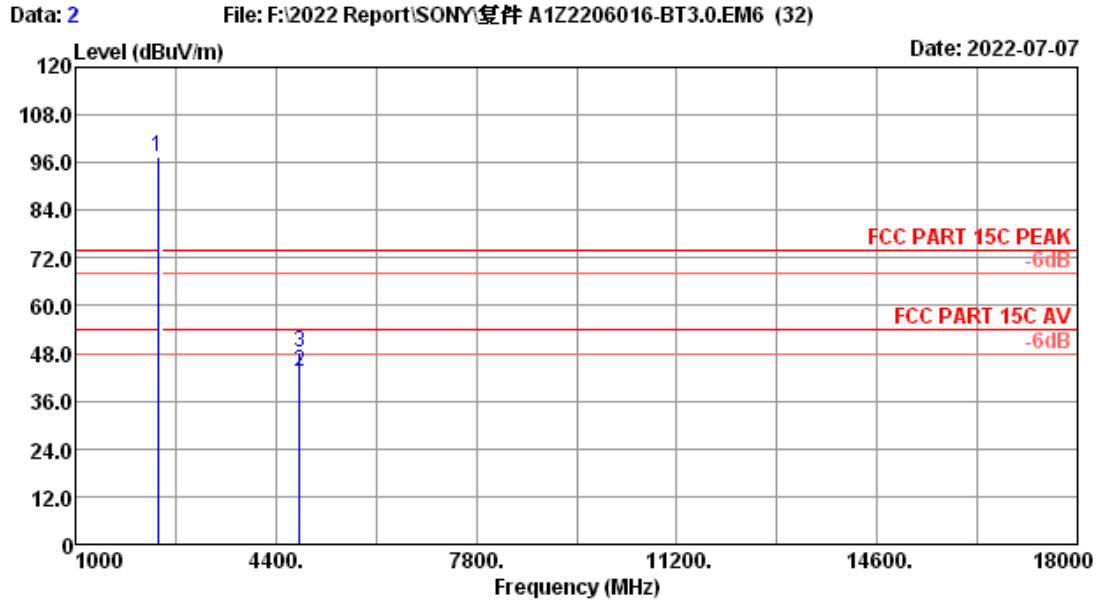
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Emission		Limits (dBuV/m)	Margin (dB)	Remark
				Reading (dBuV)	Level (dBuV/m)			
1	38.730	20.15	0.70	-2.59	18.26	40.00	21.74	QP
2	178.410	18.65	1.36	-0.08	19.93	43.50	23.57	QP
3	386.960	21.77	1.99	-2.83	20.93	46.00	25.07	QP
4	489.780	23.82	2.31	-2.80	23.33	46.00	22.67	QP
5	623.640	26.14	2.64	-2.44	26.34	46.00	19.66	QP
6	791.450	27.97	3.13	-1.95	29.15	46.00	16.85	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

Frequency: 1GHz~18GHz



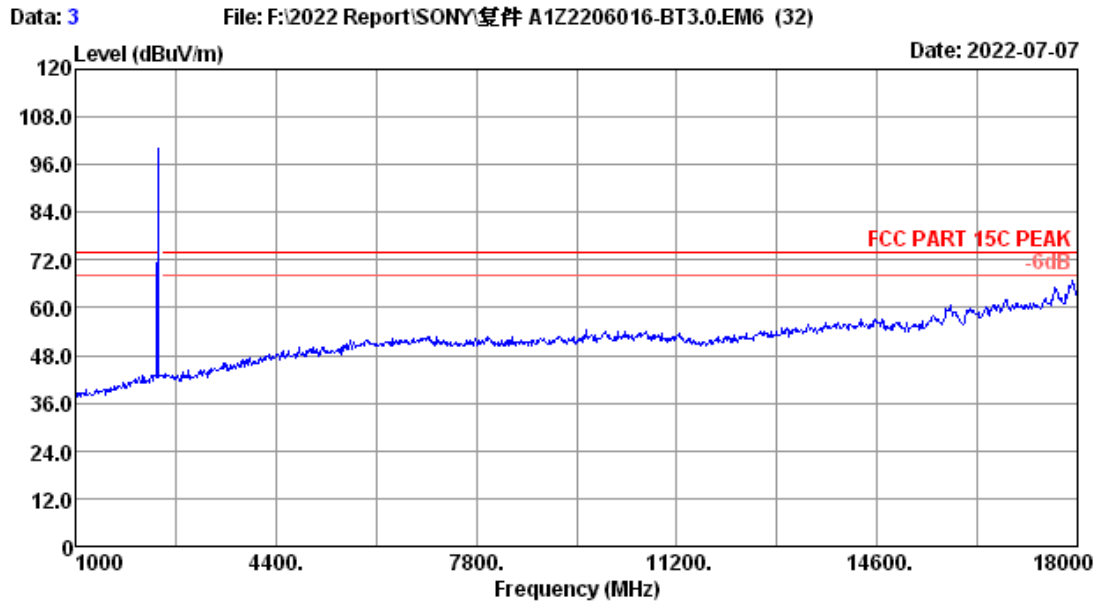
Site no.	: 3m Chamber	Data no.	: 1
Dis. / Ant.	: 3m 2021 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.8°C/53.5%	Engineer	: Nier
Test Mode	: BT3.0 GFSK 2402MHz Tx		



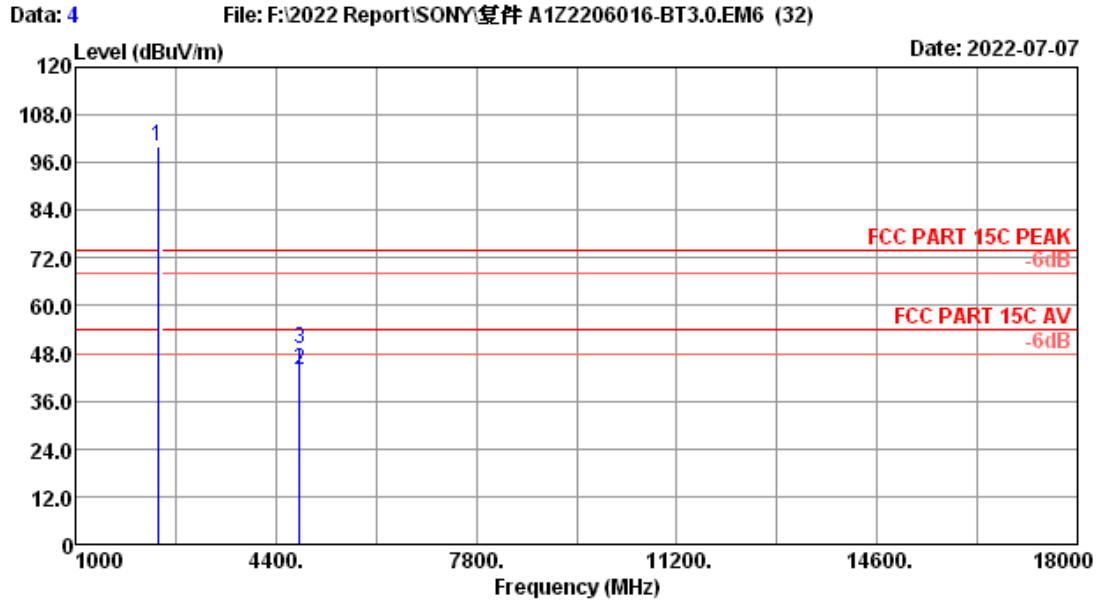
Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.8°C/53.5% Engineer : Nier
 Test Mode : BT3.0 GFSK 2402MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.89	3.66	101.12	35.24	97.43	-----	-----	Peak
2	4804.00	32.69	4.98	40.16	34.46	43.37	54.00	10.63	Average
3	4804.00	32.69	4.98	45.12	34.46	48.33	74.00	25.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



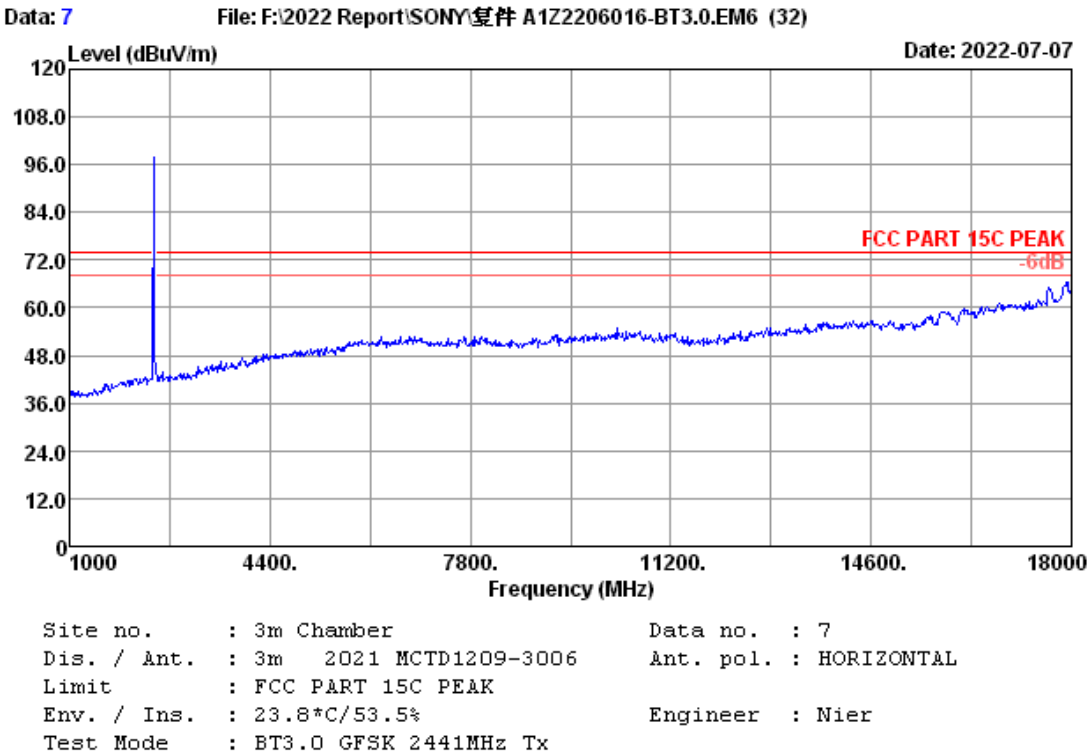
Site no.	: 3m Chamber	Data no.	: 3
Dis. / Ant.	: 3m 2021 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.8°C/53.5%	Engineer	: Nier
Test Mode	: BT3.0 GFSK 2402MHz Tx		

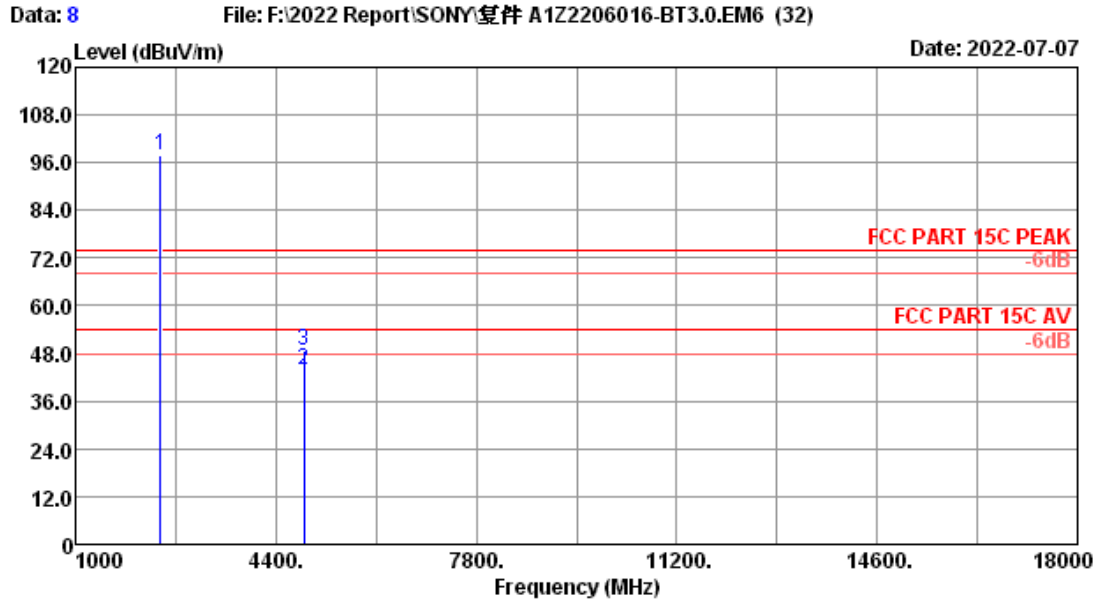


Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.8°C/53.5% Engineer : Nier
 Test Mode : BT3.0 GFSK 2402MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.89	3.66	103.62	35.24	99.93	-----	-----	Peak
2	4804.00	32.69	4.98	40.81	34.46	44.02	54.00	9.98	Average
3	4804.00	32.69	4.98	46.13	34.46	49.34	74.00	24.66	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.

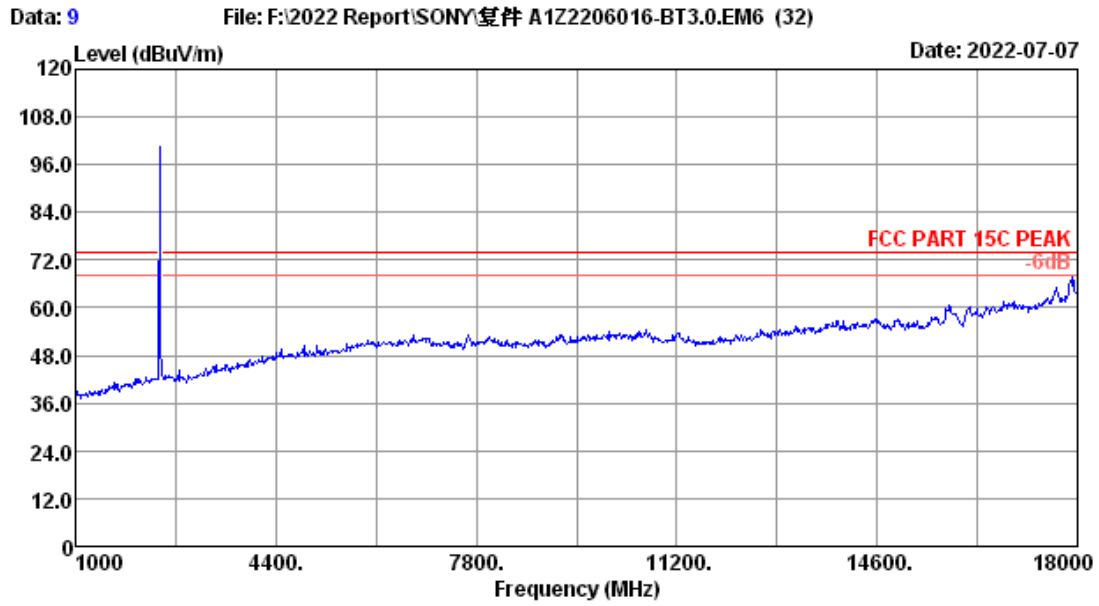




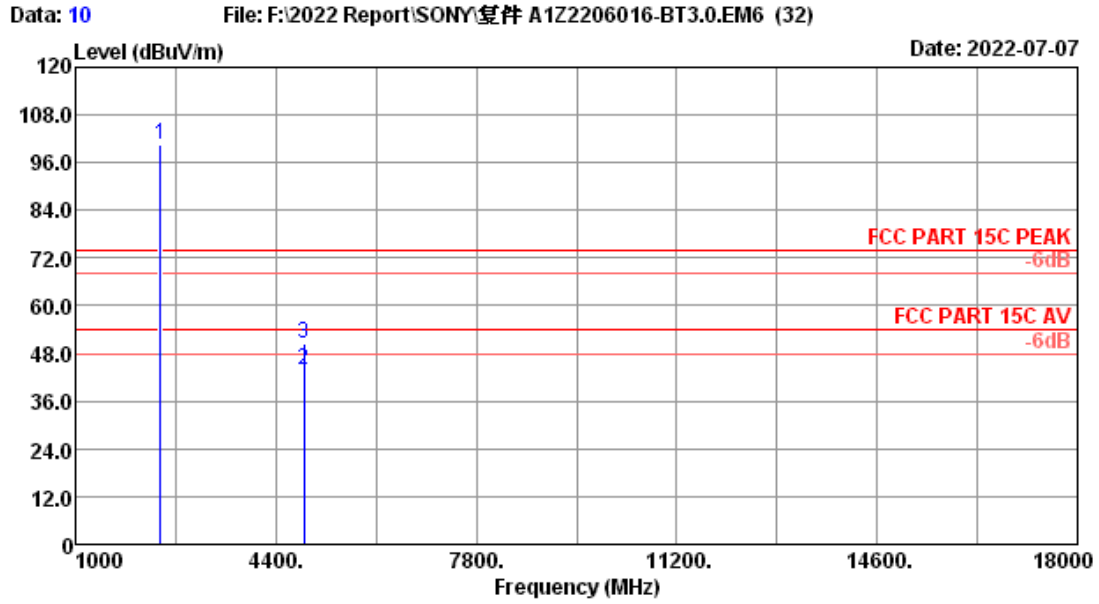
Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.8°C/53.5% Engineer : Nier
 Test Mode : BT3.0 GFSK 2441MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.00	3.68	101.48	35.25	97.91	-----	-----	Peak
2	4882.00	32.73	5.01	40.74	34.47	44.01	54.00	9.99	Average
3	4882.00	32.73	5.01	45.23	34.47	48.50	74.00	25.50	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



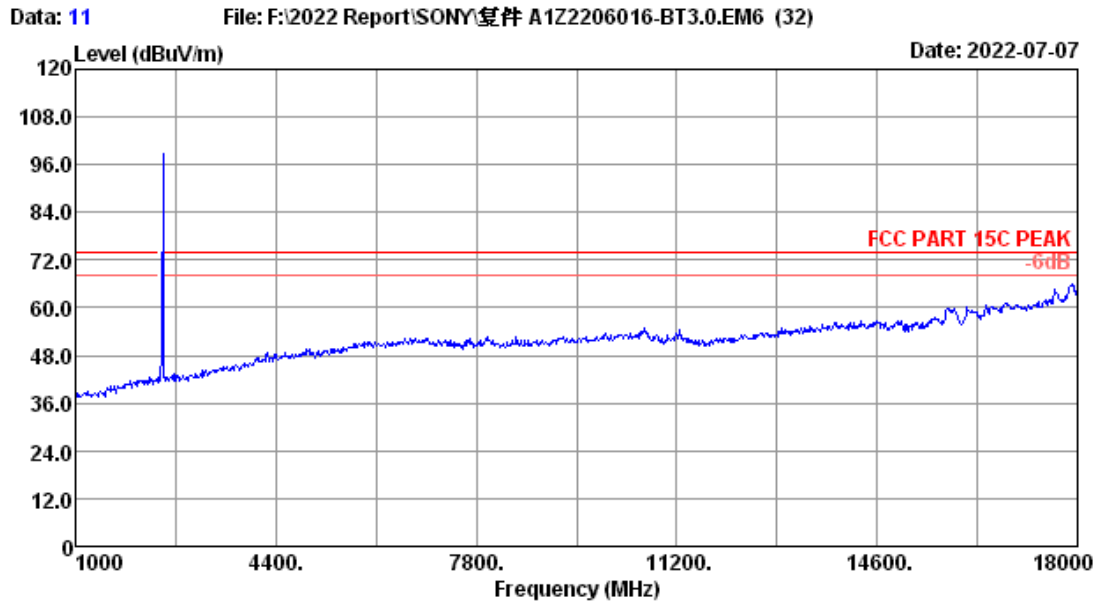
Site no.	: 3m Chamber	Data no.	: 9
Dis. / Ant.	: 3m 2021 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.8°C/53.5%	Engineer	: Nier
Test Mode	: BT3.0 GFSK 2441MHz Tx		



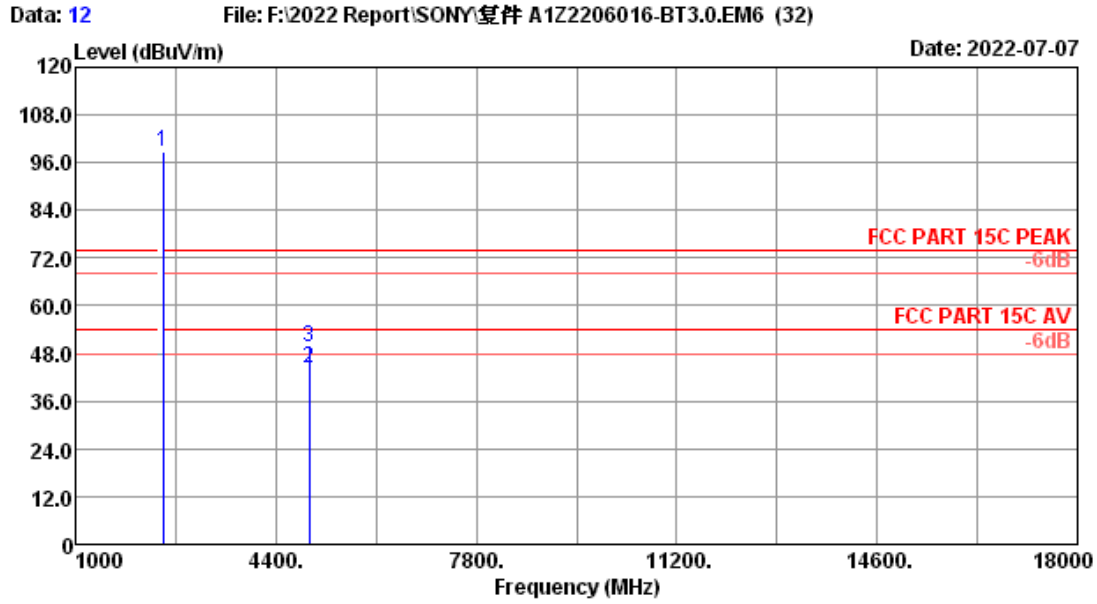
Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.8°C/53.5% Engineer : Nier
 Test Mode : BT3.0 GFSK 2441MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.00	3.68	103.98	35.25	100.41	-----	-----	Peak
2	4882.00	32.73	5.01	40.55	34.47	43.82	54.00	10.18	Average
3	4882.00	32.73	5.01	47.16	34.47	50.43	74.00	23.57	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



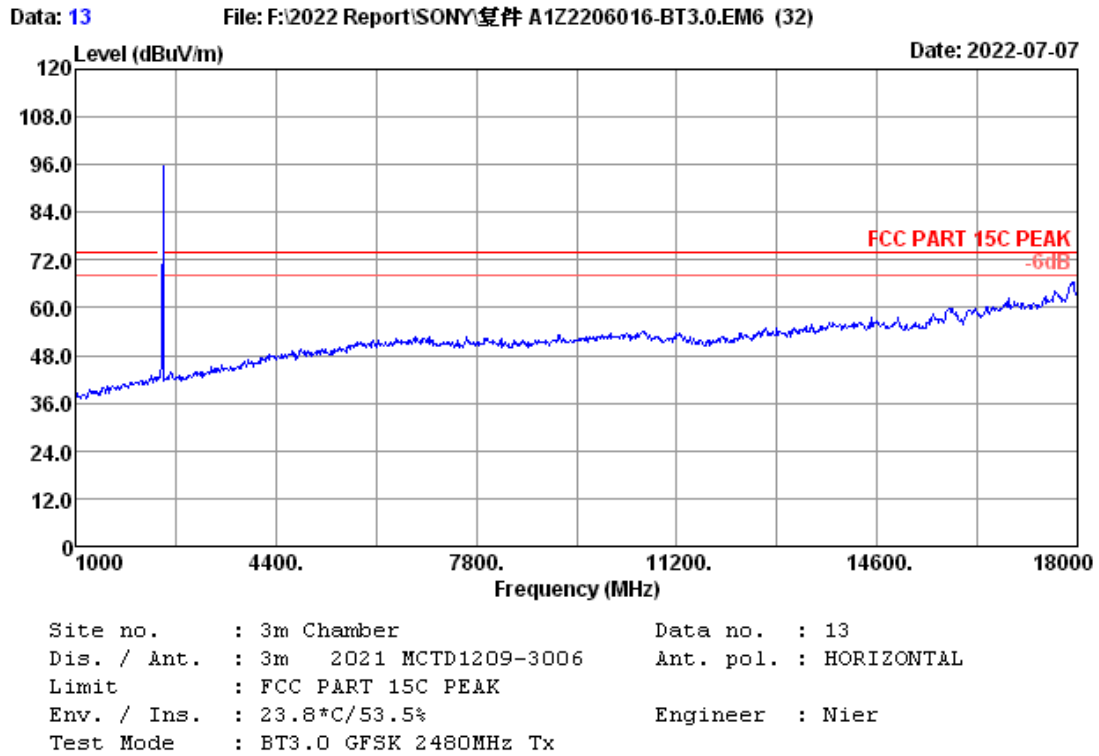
Site no.	: 3m Chamber	Data no.	: 11
Dis. / Ant.	: 3m 2021 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.8°C/53.5%	Engineer	: Nier
Test Mode	: BT3.0 GFSK 2480MHz Tx		

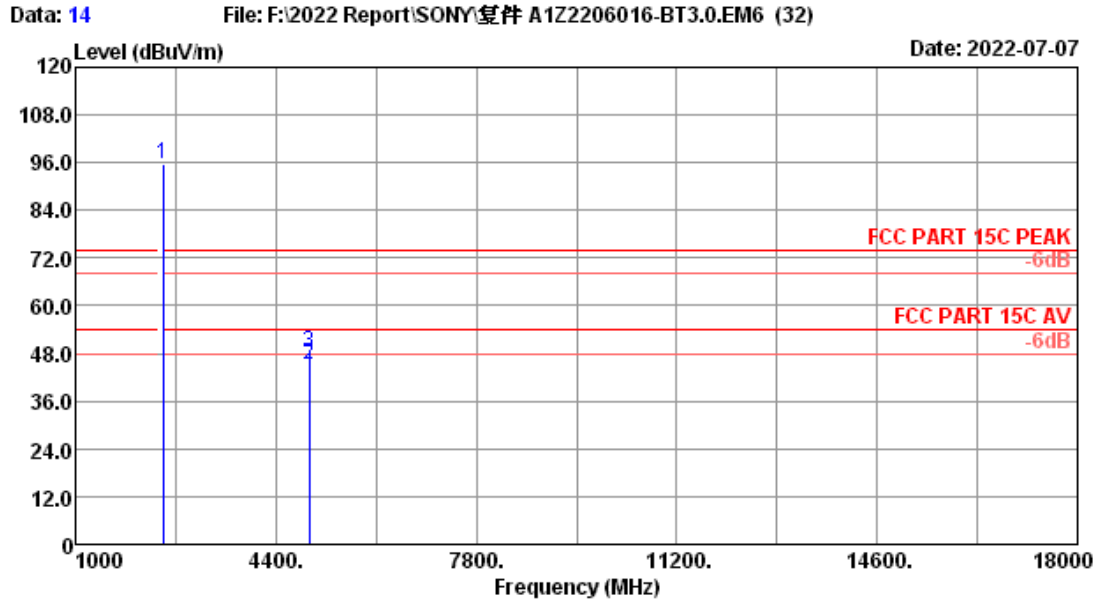


Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.8°C/53.5% Engineer : Nier
 Test Mode : BT3.0 GFSK 2480MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.07	3.71	102.21	35.25	98.74	-----	-----	Peak
2	4960.00	32.78	5.03	41.05	34.49	44.37	54.00	9.63	Average
3	4960.00	32.78	5.03	46.13	34.49	49.45	74.00	24.55	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.

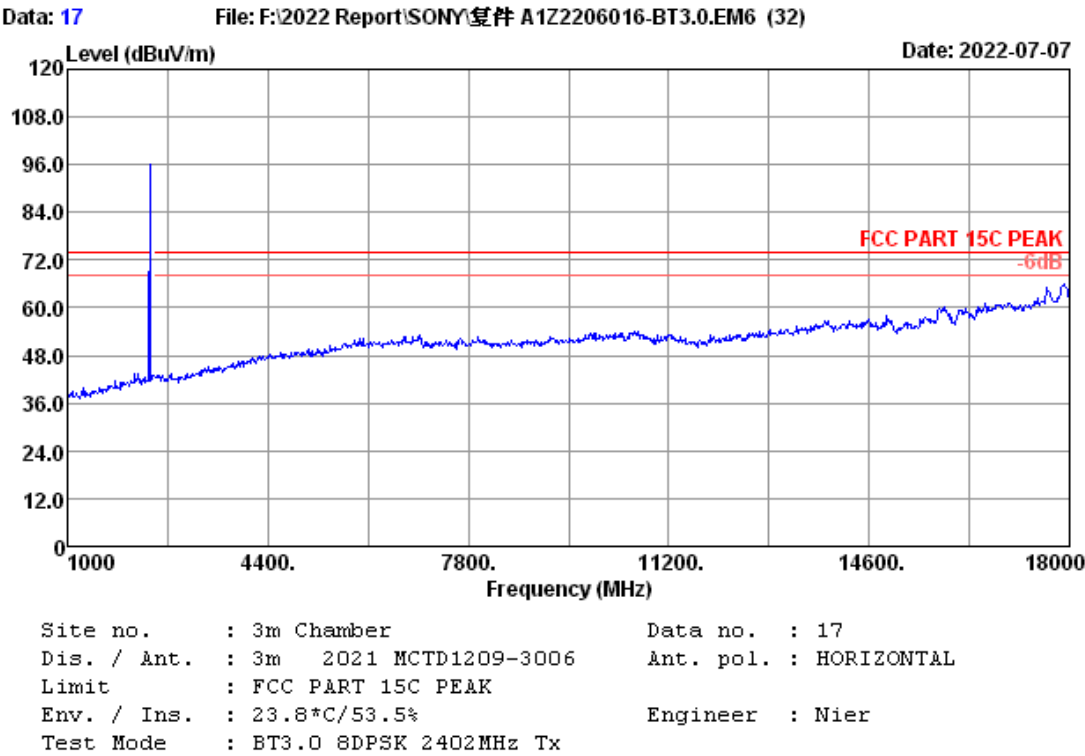


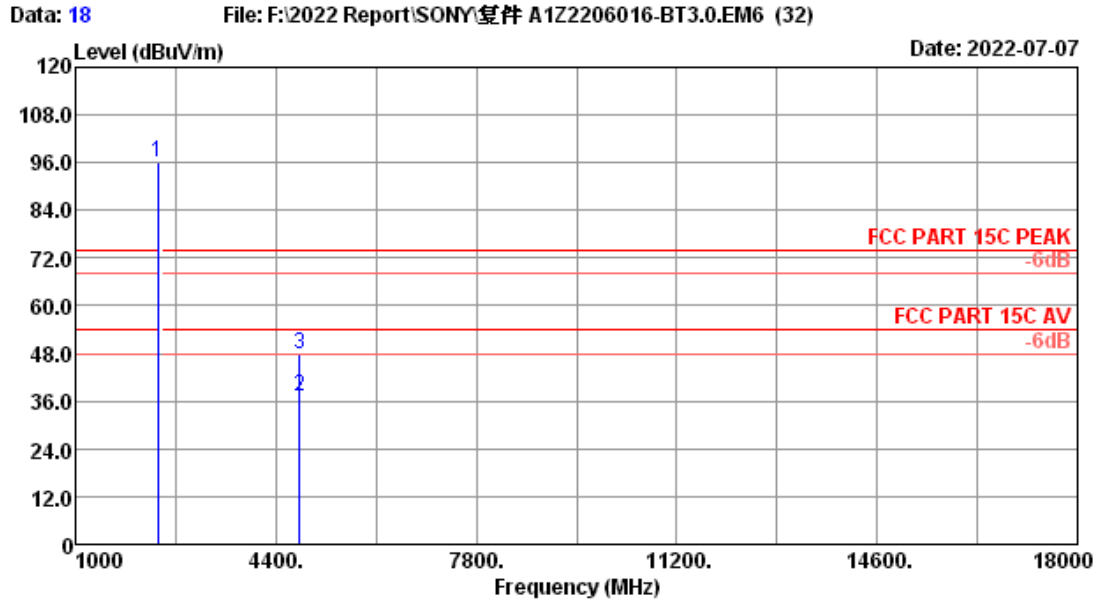


Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.8°C/53.5% Engineer : Nier
 Test Mode : BT3.0 GFSK 2480MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.07	3.71	99.11	35.25	95.64	-----	-----	Peak
2	4960.00	32.78	5.03	41.71	34.49	45.03	54.00	8.97	Average
3	4960.00	32.78	5.03	44.98	34.49	48.30	74.00	25.70	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.

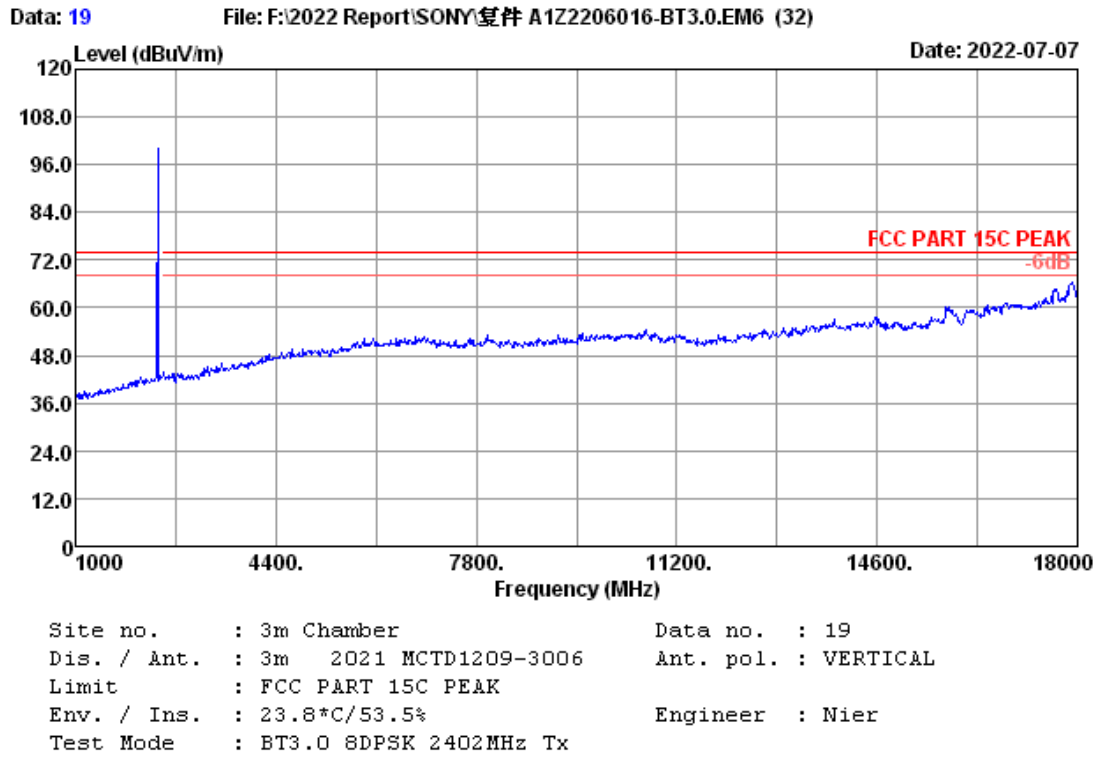


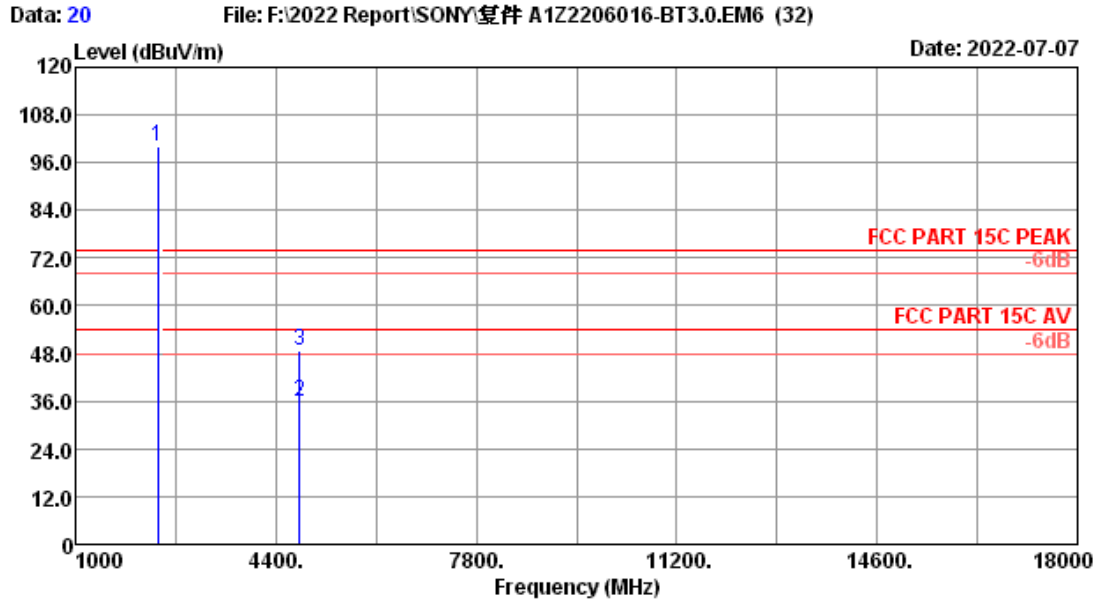


Site no. : 3m Chamber Data no. : 18
 Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.8°C/53.5% Engineer : Nier
 Test Mode : BT3.0 8DPSK 2402MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.89	3.66	99.74	35.24	96.05	-----	-----	Peak
2	4804.00	32.69	4.98	33.96	34.46	37.17	54.00	16.83	Average
3	4804.00	32.69	4.98	44.41	34.46	47.62	74.00	26.38	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.

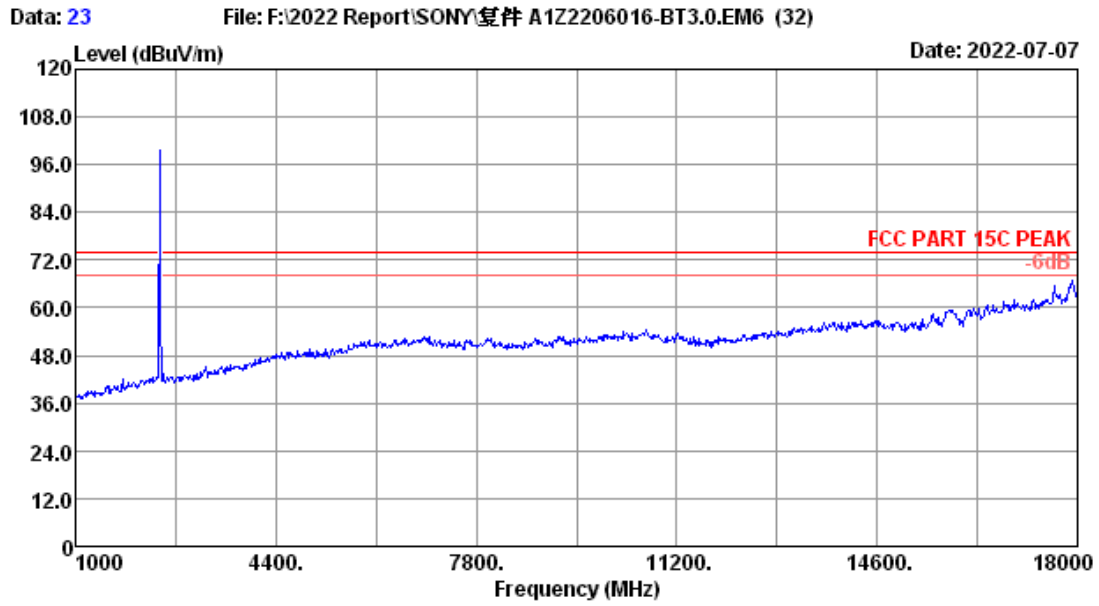




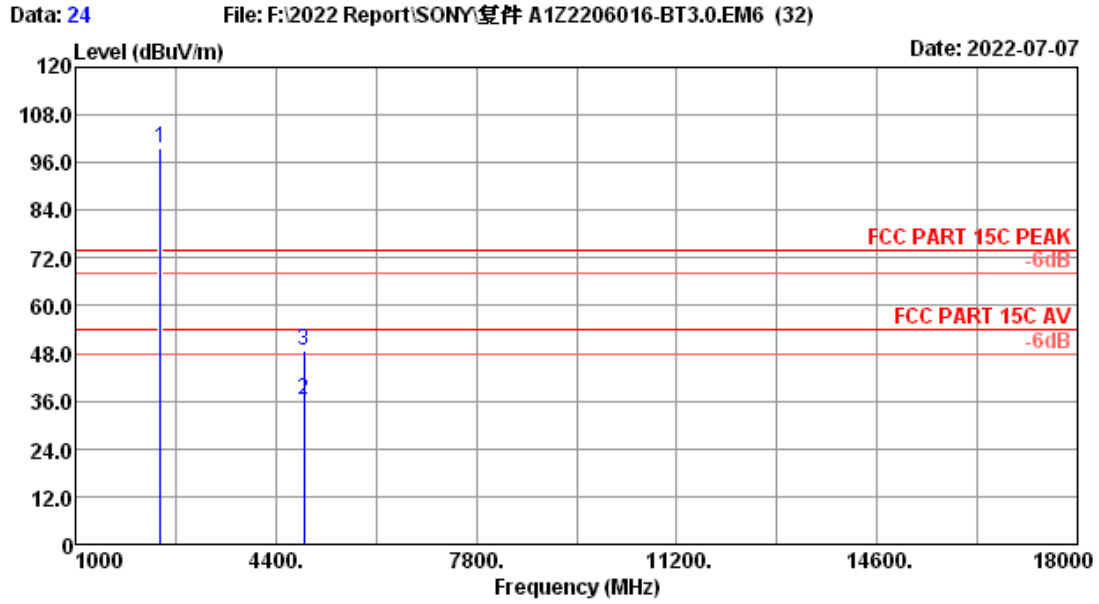
Site no. : 3m Chamber Data no. : 20
 Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.8°C/53.5% Engineer : Nier
 Test Mode : BT3.0 8DPSK 2402MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2402.00	27.89	3.66	103.59	35.24	99.90	-----	-----	Peak
2	4804.00	32.69	4.98	32.55	34.46	35.76	54.00	18.24	Average
3	4804.00	32.69	4.98	45.62	34.46	48.83	74.00	25.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



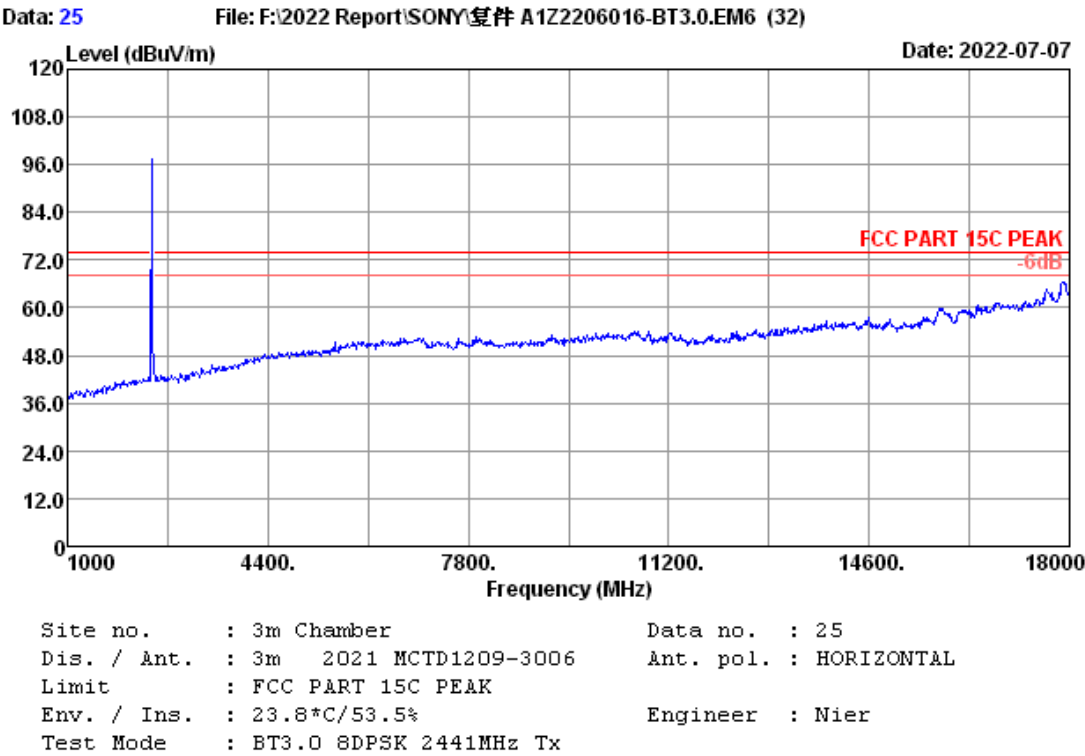
Site no.	: 3m Chamber	Data no.	: 23
Dis. / Ant.	: 3m 2021 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.8°C/53.5%	Engineer	: Nier
Test Mode	: BT3.0 8DPSK 2441MHz Tx		

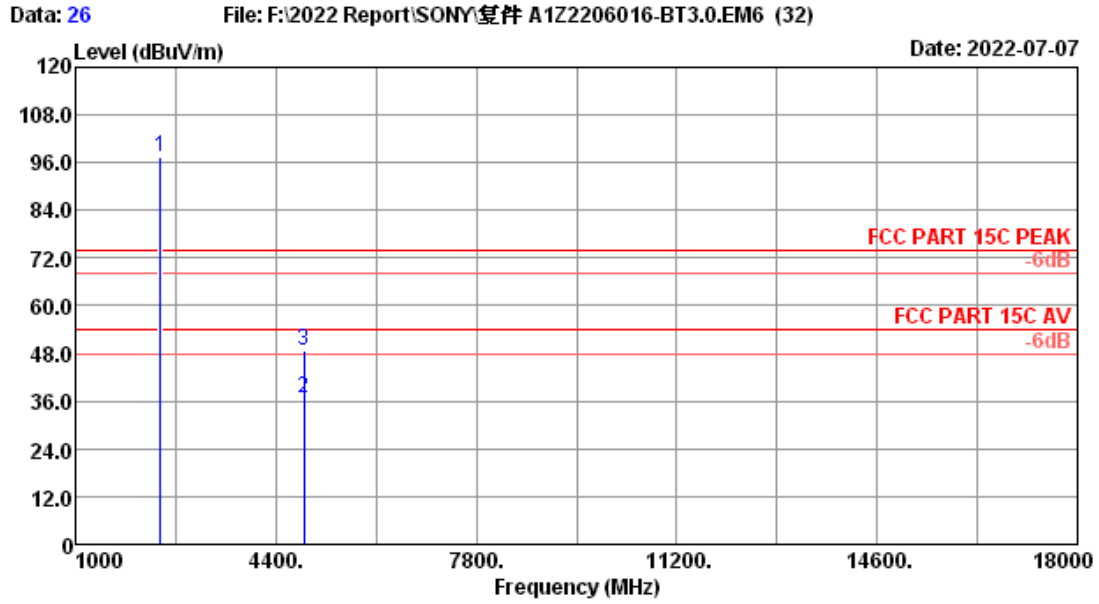


Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.8°C/53.5% Engineer : Nier
 Test Mode : BT3.0 8DPSK 2441MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.00	3.68	103.22	35.25	99.65	-----	-----	Peak
2	4882.00	32.73	5.01	33.16	34.47	36.43	54.00	17.57	Average
3	4882.00	32.73	5.01	45.63	34.47	48.90	74.00	25.10	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.

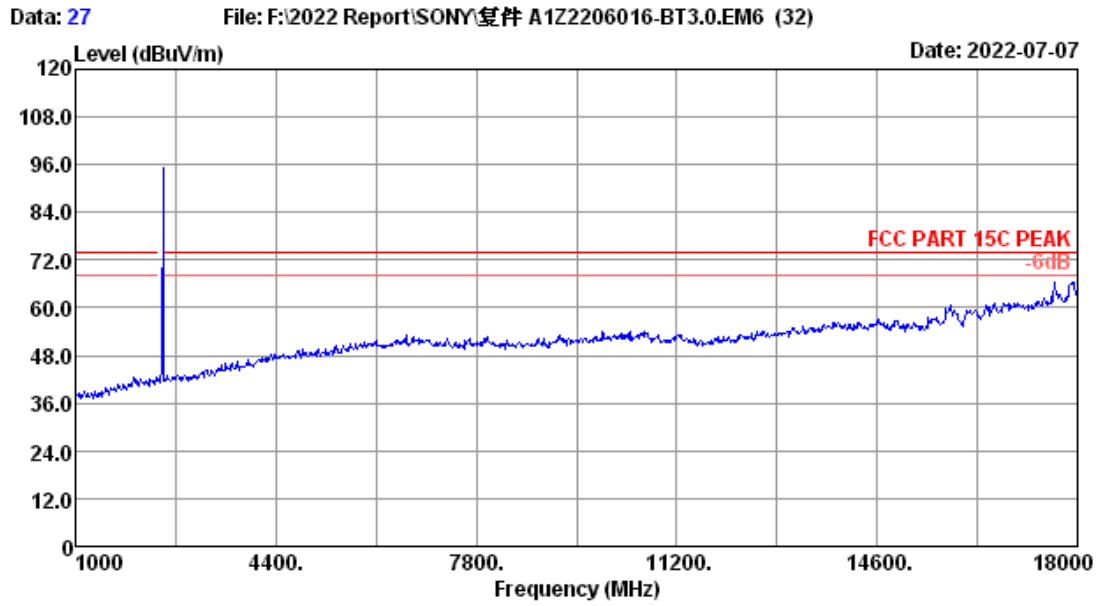




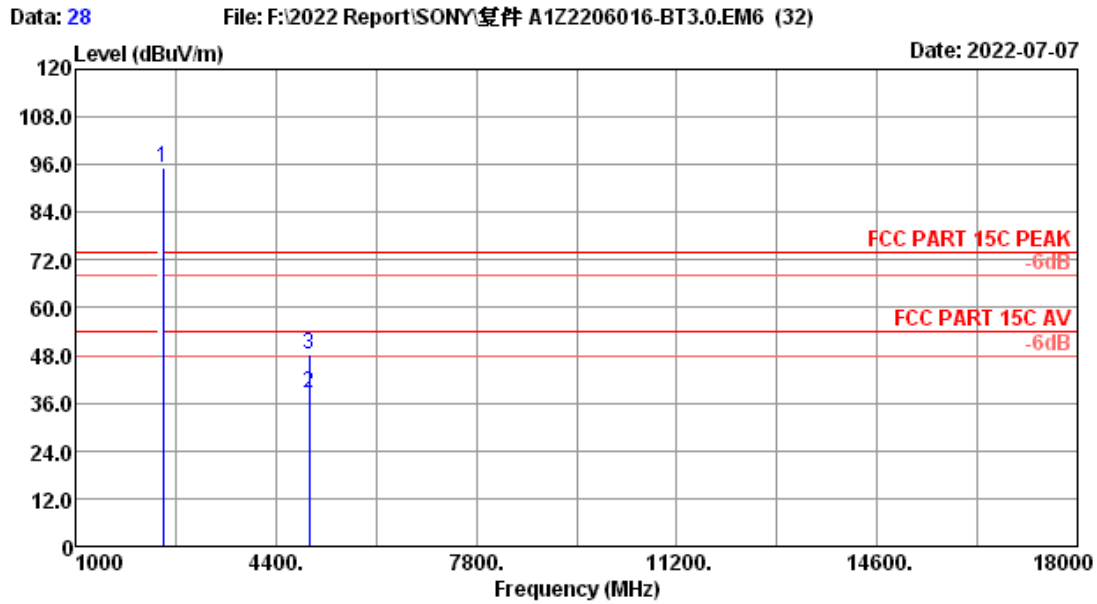
Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.8°C/53.5% Engineer : Nier
 Test Mode : BT3.0 8DPSK 2441MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2441.00	28.00	3.68	100.91	35.25	97.34	-----	-----	Peak
2	4882.00	32.73	5.01	33.48	34.47	36.75	54.00	17.25	Average
3	4882.00	32.73	5.01	45.59	34.47	48.86	74.00	25.14	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



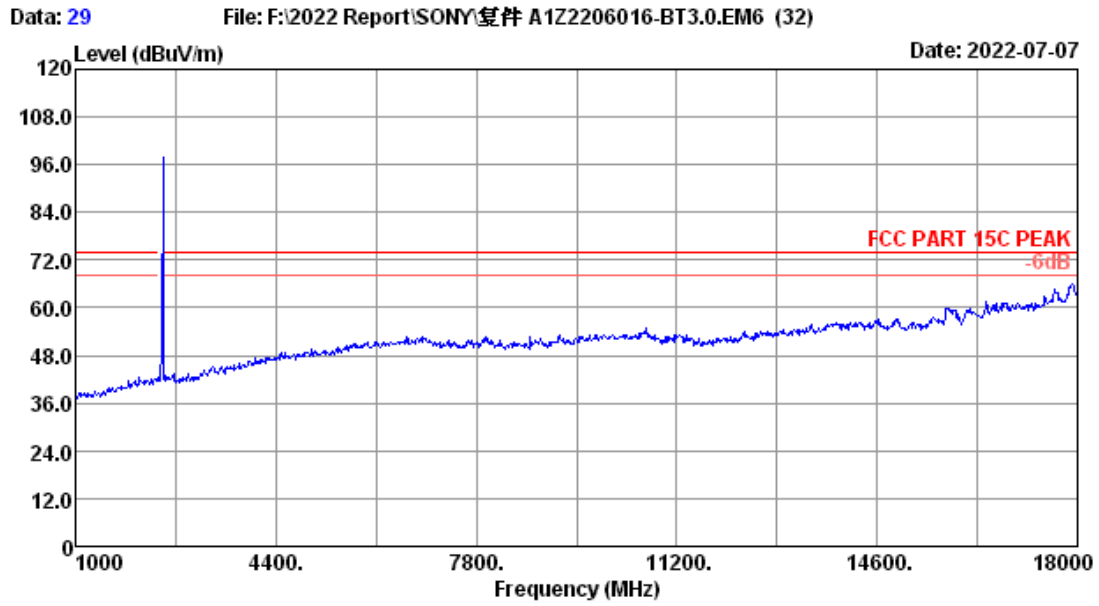
Site no.	: 3m Chamber	Data no.	: 27
Dis. / Ant.	: 3m 2021 MCTD1209-3006	Ant. pol.	: HORIZONTAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.8°C/53.5%	Engineer	: Nier
Test Mode	: BT3.0 8DPSK 2480MHz Tx		



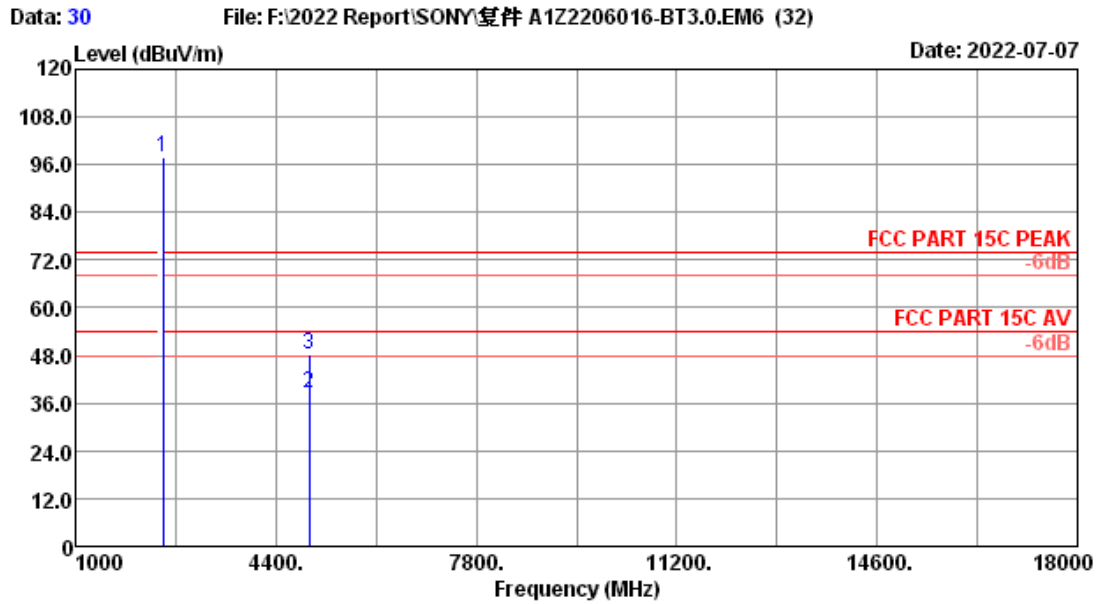
Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.8°C/53.5% Engineer : Nier
 Test Mode : BT3.0 8DPSK 2480MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.07	3.71	98.63	35.25	95.16	-----	-----	Peak
2	4960.00	32.78	5.03	35.17	34.49	38.49	54.00	15.51	Average
3	4960.00	32.78	5.03	44.76	34.49	48.08	74.00	25.92	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.



Site no.	: 3m Chamber	Data no.	: 29
Dis. / Ant.	: 3m 2021 MCTD1209-3006	Ant. pol.	: VERTICAL
Limit	: FCC PART 15C PEAK		
Env. / Ins.	: 23.8°C/53.5%	Engineer	: Nier
Test Mode	: BT3.0 8DPSK 2480MHz Tx		



Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2021 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23.8°C/53.5% Engineer : Nier
 Test Mode : BT3.0 8DPSK 2480MHz Tx

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2480.00	28.07	3.71	101.28	35.25	97.81	-----	-----	Peak
2	4960.00	32.78	5.03	35.19	34.49	38.51	54.00	15.49	Average
3	4960.00	32.78	5.03	45.09	34.49	48.41	74.00	25.59	Peak

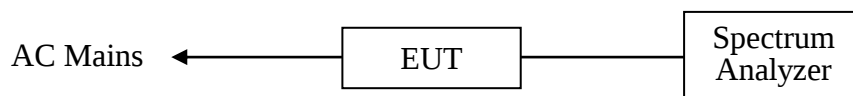
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp factor.
 2. The emission levels that are 20dB below the official
 limit are not reported.

5. CONDUCTED SPURIOUS EMISSIONS

5.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,22	1 Year
2.	Attenuator	Agilent	8491B	MY39269201	Oct.09,21	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX-106	505238/6	Apr.06,22	1 Year

5.2. Block Diagram of Test Setup



5.3. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30dB instead of 20dB.

5.4. Test Procedure

Use the test method described in ANSI C63.10 clause 7.8.8:

The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions With peak detector.

Note: The cable loss and attenuator loss were offset into spectrum analyzer as an amplitude offset.

5.5. Test result

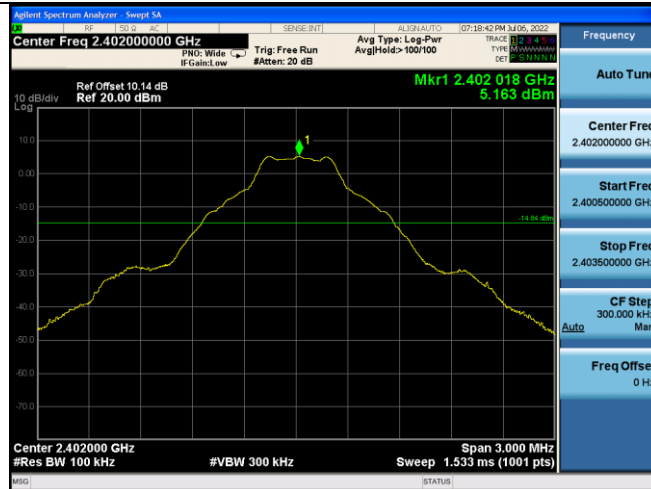
PASS (The testing data was attached in the next pages.)

EUT: Wireless Stereo Headset		
M/N: YY2962		
Test date: 2022-07-06	Pressure: 102.1 ±1.0 kpa	Humidity: 53.2 ±3.0%
Tested by: Jerry	Test site: RF site	Temperature: 22.3 ±0.6°C

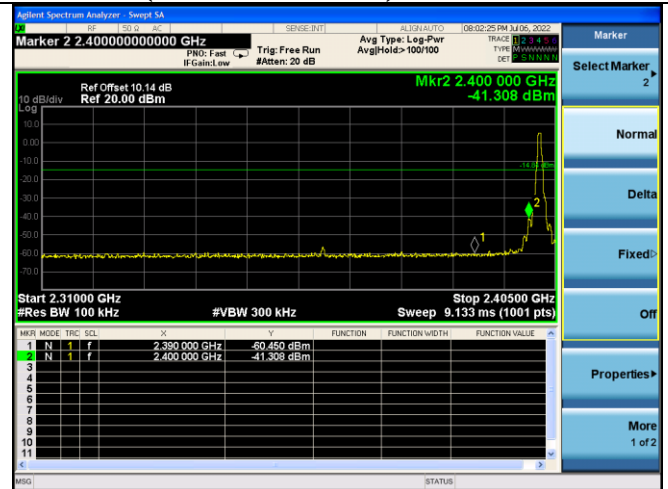
Hopping off

FSK

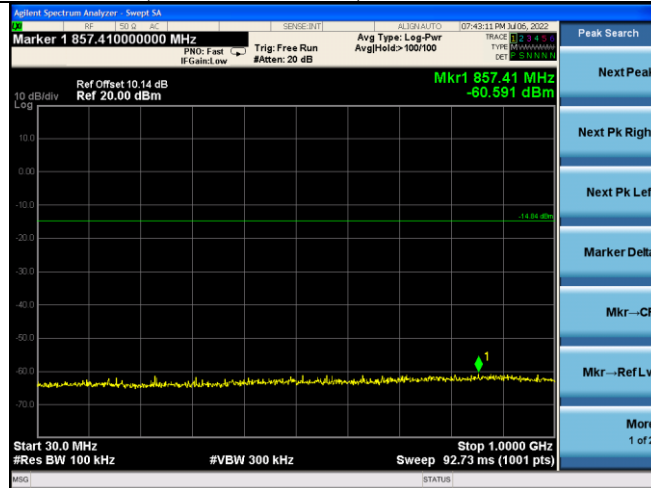
2402MHz



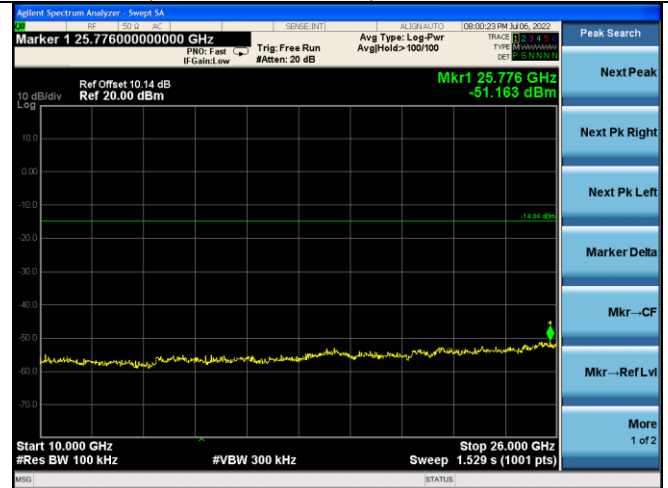
2402MHz(2.3GHz – 2.4GHz)



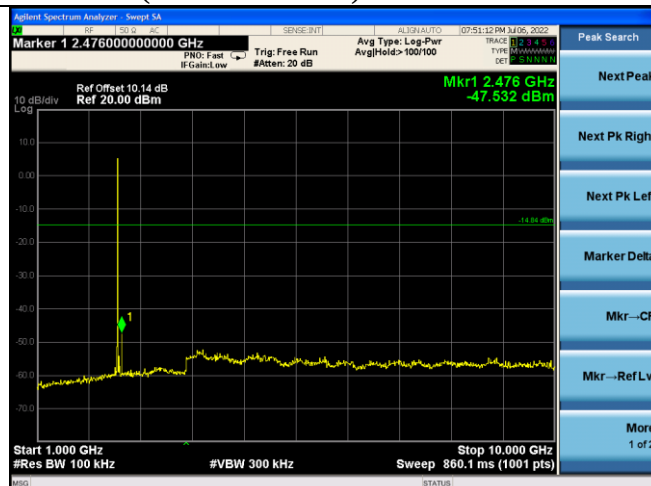
2402MHz(30MHz – 1GHz)



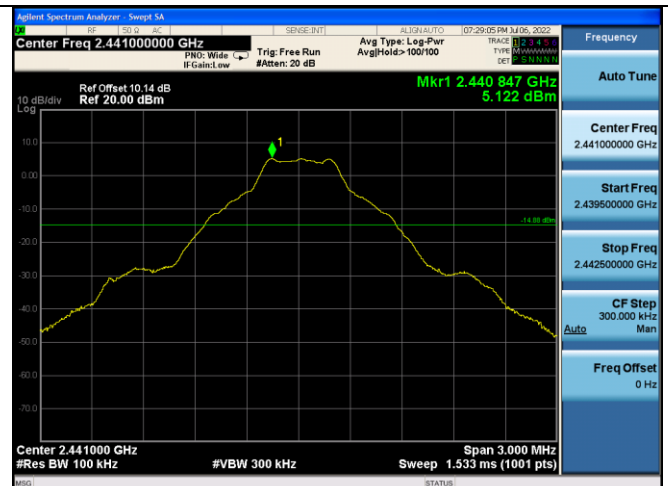
2402MHz(10GHz – 26GHz)



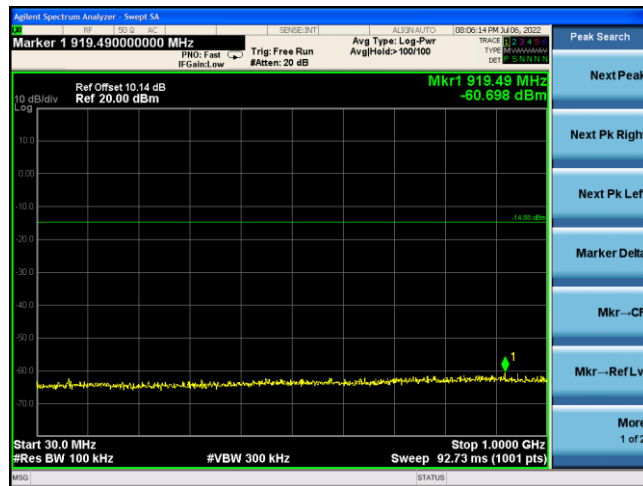
2402MHz(1GHz – 10GHz)



2441MHz



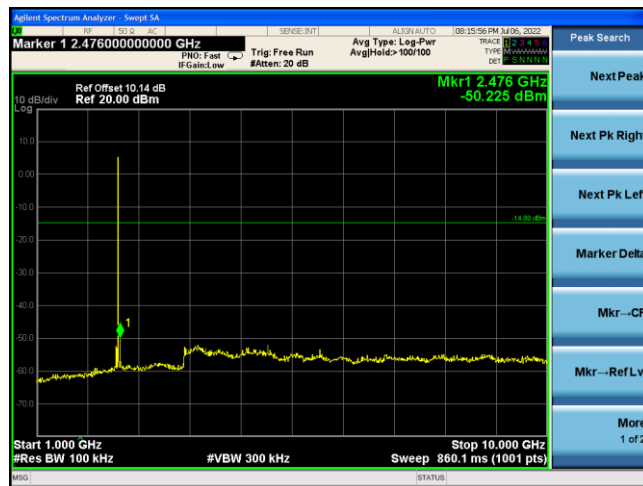
2441(30MHz – 1GHz)



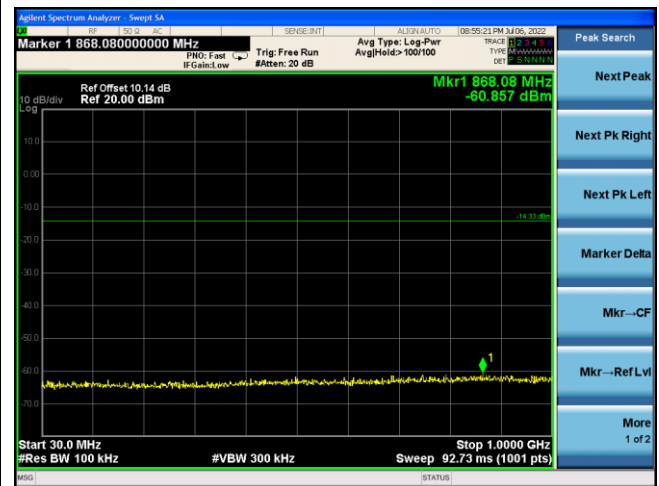
2480MHz



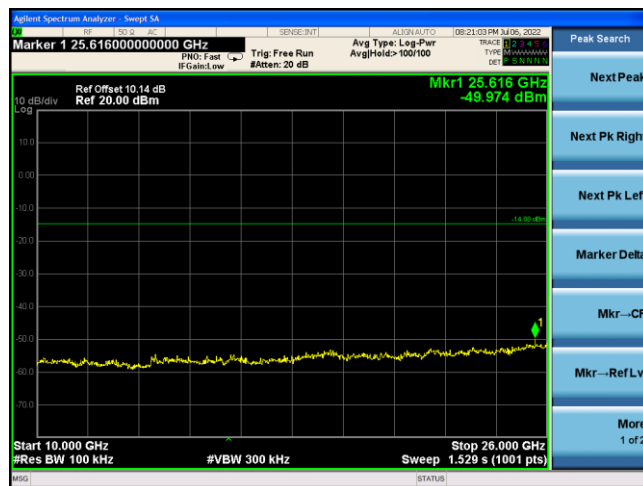
2441(1GHz – 10GHz)



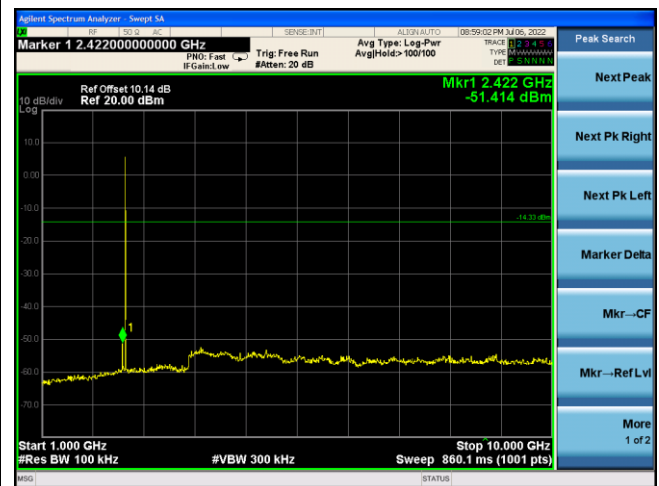
2480MHz(30MHz – 1GHz)



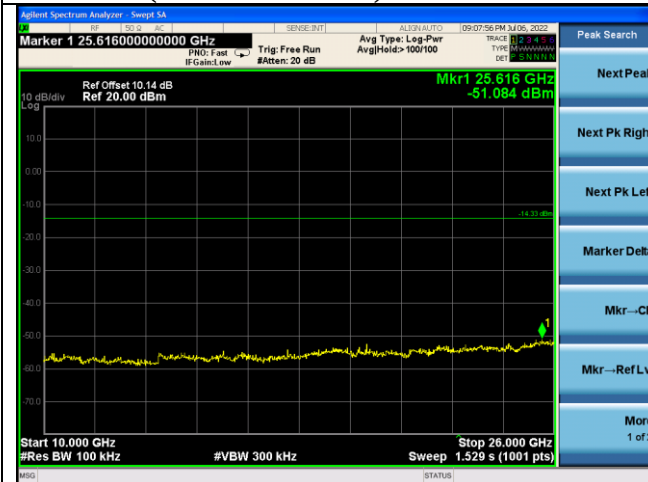
2441(10GHz – 26GHz)



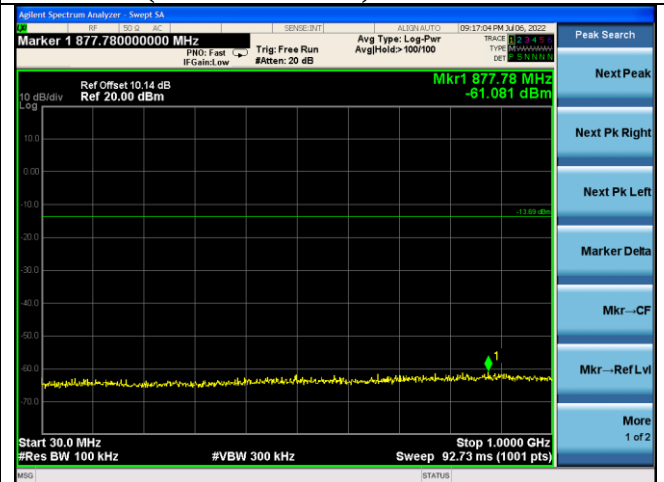
2480MHz(1GHz – 10GHz)



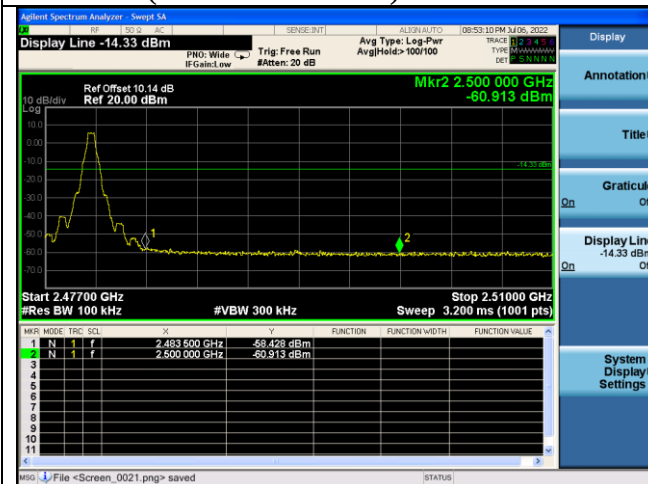
2480MHz(10GHz – 26GHz)



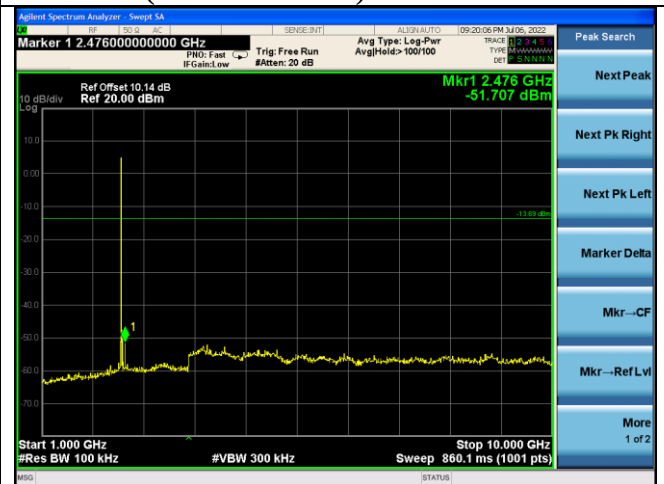
2402MHz(30MHz – 1GHz)



2480MHz(2.4GHz – 2.5GHz)

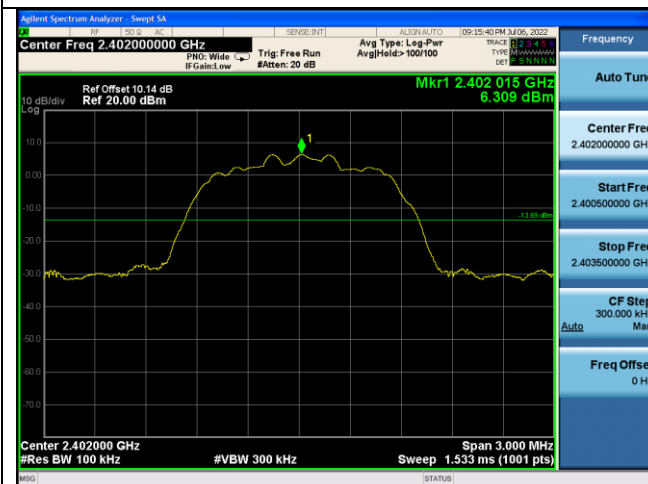


2402MHz(1GHz – 10GHz)

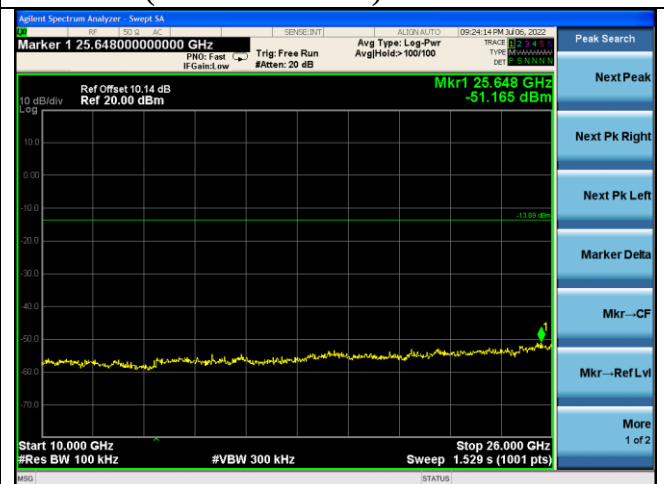


8-DPSK

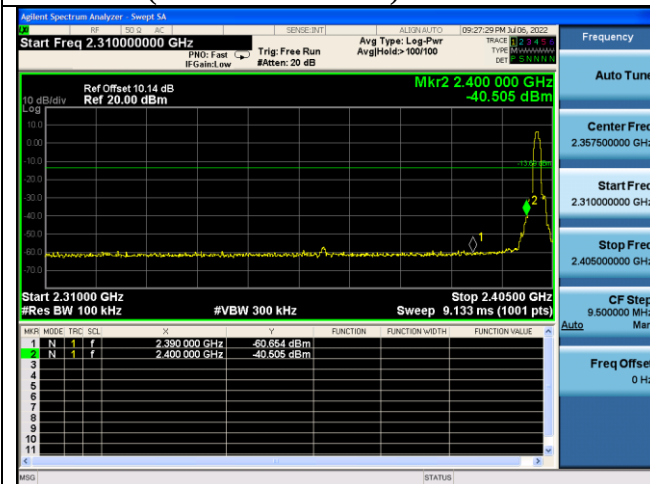
2402MHz



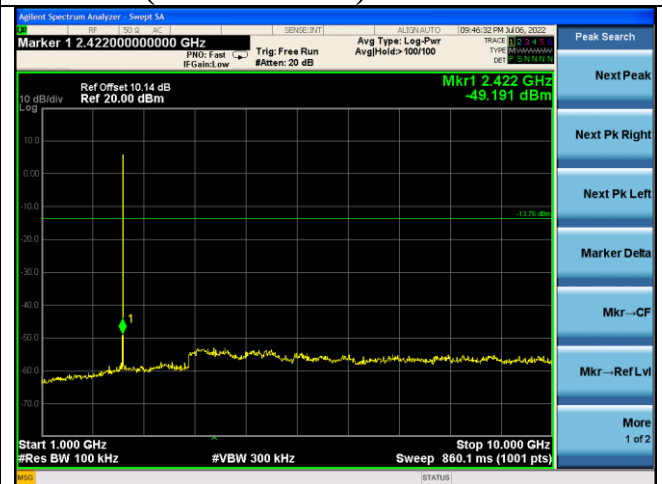
2402MHz(10GHz – 26GHz)



2402MHz(2.3GHz – 2.4GHz)



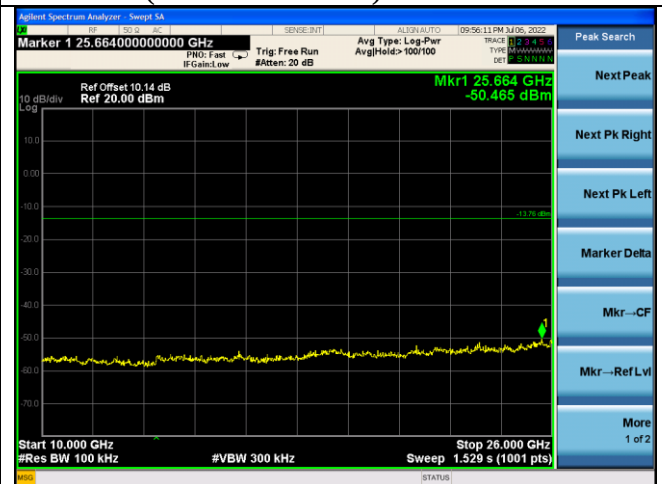
2441MHz(1GHz – 10GHz)



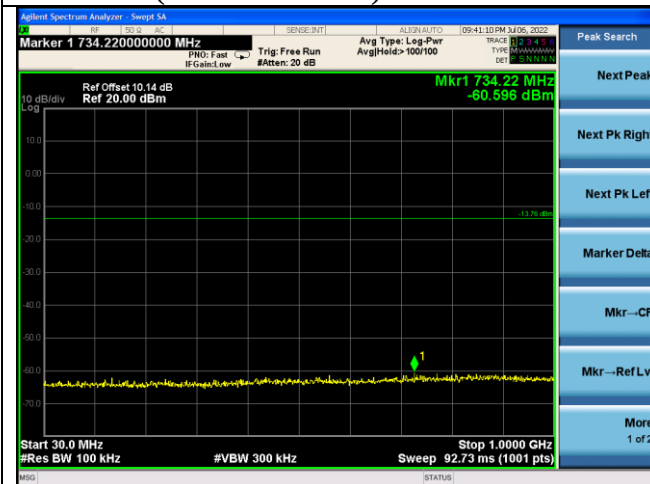
2441MHz



2441MHz(10GHz – 26GHz)



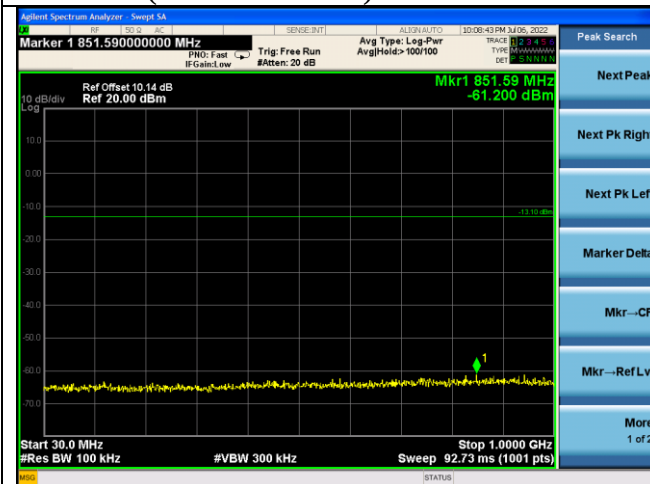
2441MHz (30MHz – 1GHz)



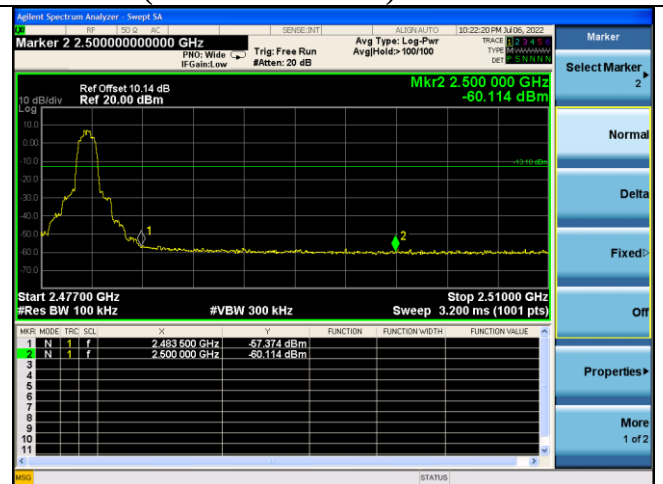
2480MHz



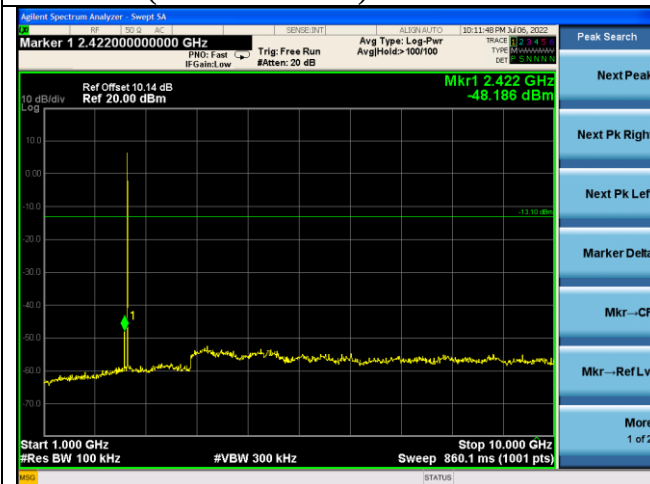
2480MHz(30MHz – 1GHz)



2480MHz(2.4GHz – 2.5GHz)

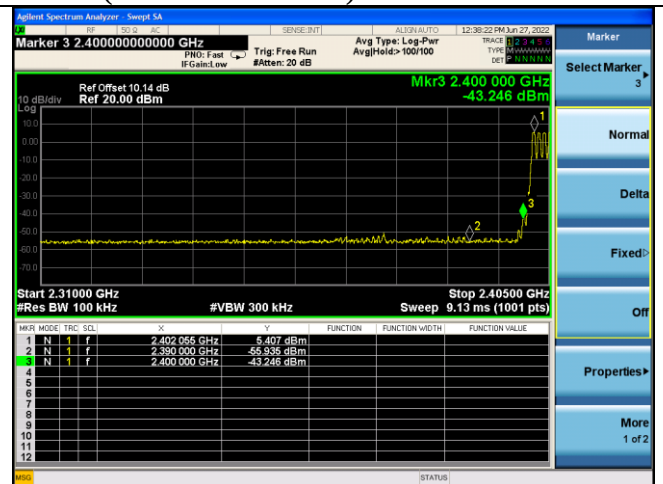


2480MHz(1GHz – 10GHz)

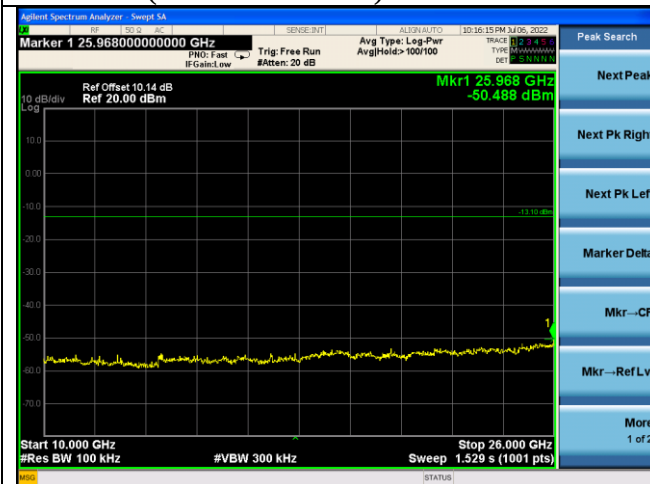


Hopping on

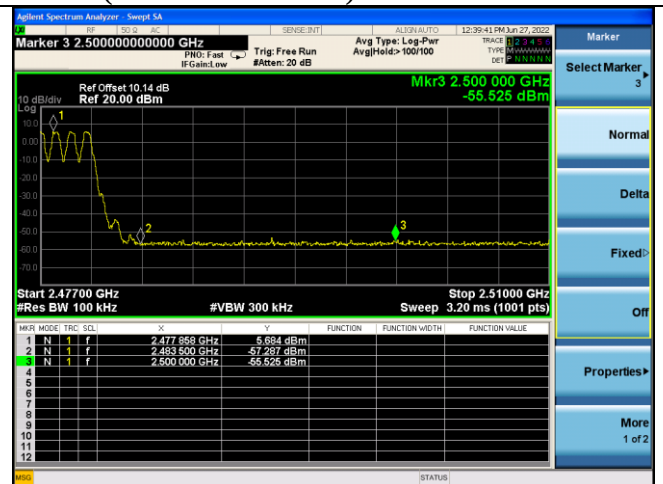
GFSK (2.3GHz – 2.4GHz)



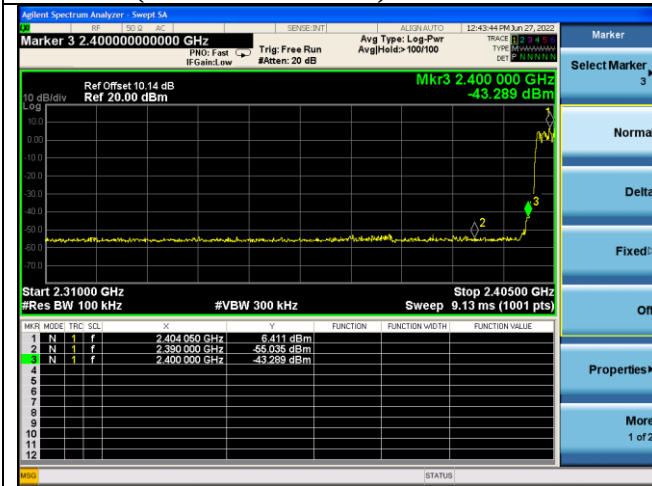
2480MHz(10GHz – 26GHz)



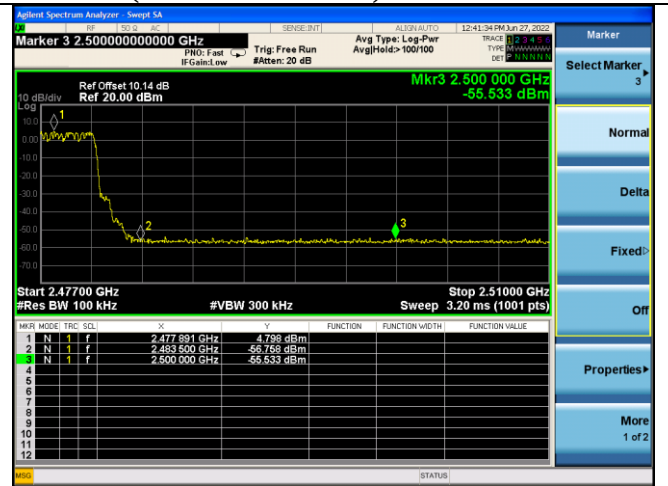
GFSK (2.4GHz – 2.5GHz)



8-DPSK (2.3GHz – 2.4GHz)



8-DPSK (2.4GHz – 2.5GHz)



6. 20 dB & 99% BANDWIDTH TEST

6.1.Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,22	1 Year
2.	Attenuator	Agilent	8491B	MY39269201	Oct.09,21	1 Year
3.	RF Cable	Hubersuhner	SUCOFLEX-106	505238/6	Apr.06,22	1 Year

6.2.Limit

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.

6.3.Test Procedure

Use the test method descried in ANSI C63.10 clause 7.8.7:

1. Connect the antenna port of the EUT to the spectrum analyzer.
2. Let the EUT transmit at Low/ Mid/ High channel with test software.
3. Setting of SA is following as: RBW: 30kHz / VBW: 100kHz
Sweep Mode: Continuous sweep
Detect mode: Positive peak
Trace mode: Max hold.
4. Use the occupied bandwidth function of the SA measure the 20dB bandwidth directly.

6.4.Test Results

EUT: Wireless Stereo Headset		
M/N: YY2962		
Test date: 2022-06-27	Pressure: 102.1 ±1.0 kpa	Humidity: 53.2 ±3.0%
Tested by: Jerry	Test site: RF site	Temperature: 22.3 ±0.6℃

Test Mode	Frequency (MHz)	-20dB bandwidth (kHz)	Limit (kHz)
GFSK	2402	966.1	N/A
	2441	965.0	N/A
	2480	964.3	N/A
8-DPSK	2402	1307	N/A
	2441	1306	N/A
	2480	1305	N/A

Conclusion : PASS

Test Mode	Frequency (MHz)	99% Bandwidth (kHz)	Limit (kHz)
GFSK	2402	884.83	N/A
	2441	881.34	N/A
	2480	881.87	N/A
8-DPSK	2402	1179.8	N/A
	2441	1179.0	N/A
	2480	1177.7	N/A

Conclusion : PASS

90% Bandwidth

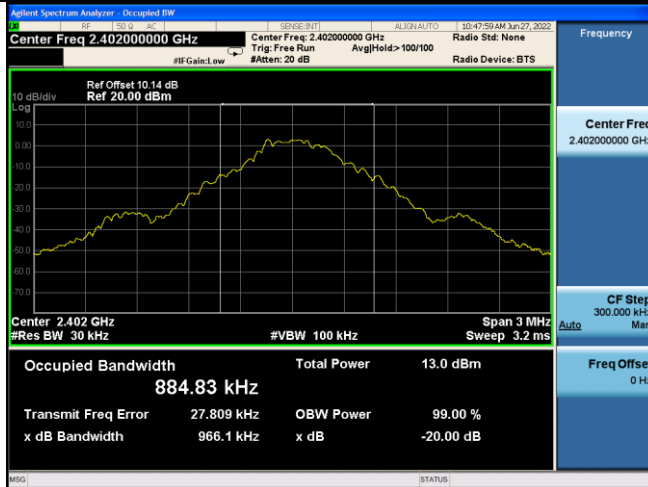
EUT: Wireless Stereo Headset		
M/N: YY2962		
Test date: 2022-06-27	Pressure: 102.1 ±1.0 kpa	Humidity: 53.2 ±3.0%
Tested by: Jerry	Test site: RF site	Temperature: 22.3 ±0.6℃

Test Mode	Frequency (MHz)	90% Bandwidth (kHz)	Limit (kHz)
GFSK	2402	445.88	N/A
	2441	444.84	N/A
	2480	445.06	N/A
8-DPSK	2402	846.30	N/A
	2441	846.42	N/A
	2480	847.10	N/A
Conclusion : PASS			

Occupied Bandwidth (99% BW)

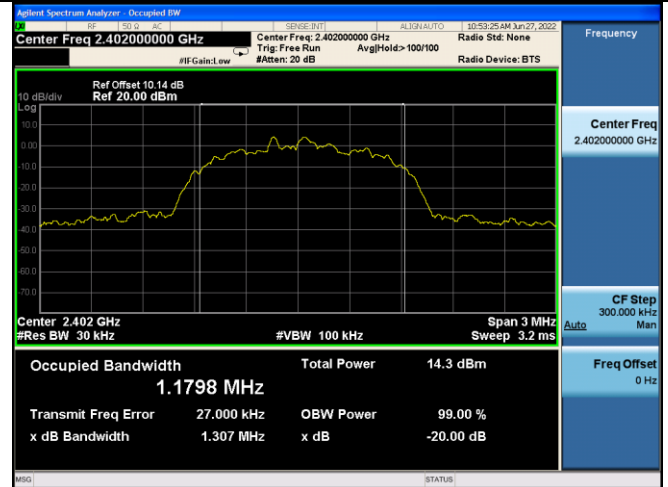
GFSK

2402MHz

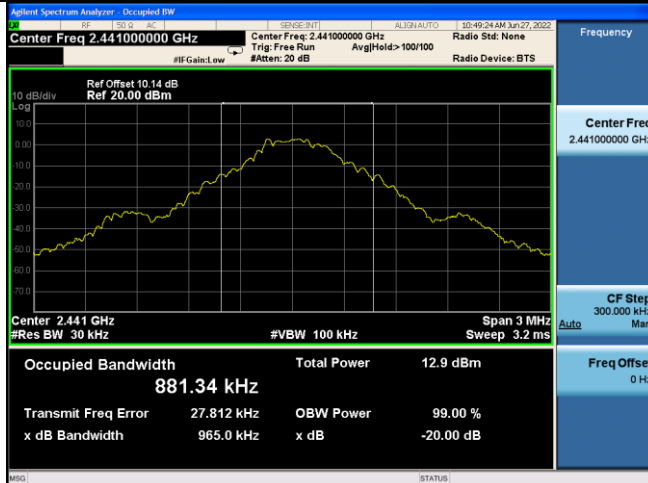


8-DPSK

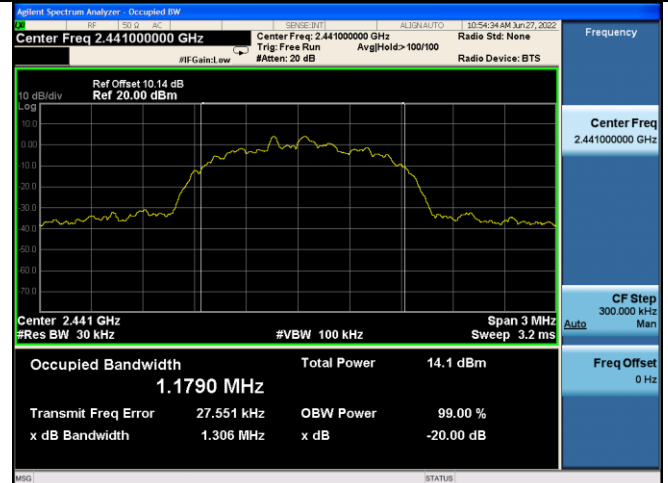
2402MHz



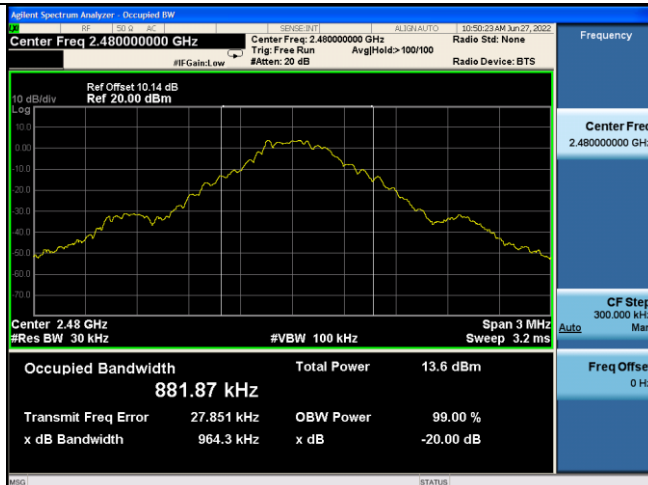
2441MHz



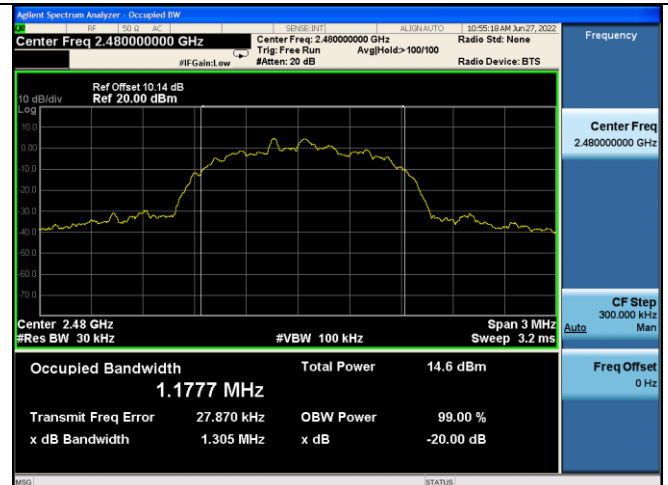
2441MHz



2480MHz



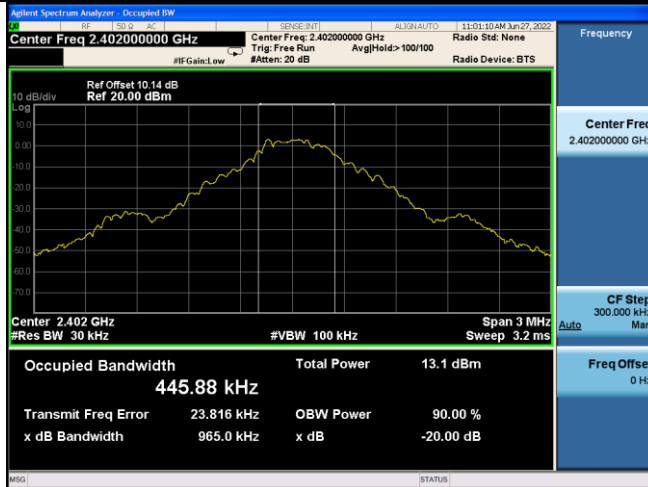
2480MHz



Occupied Bandwidth (90% BW)

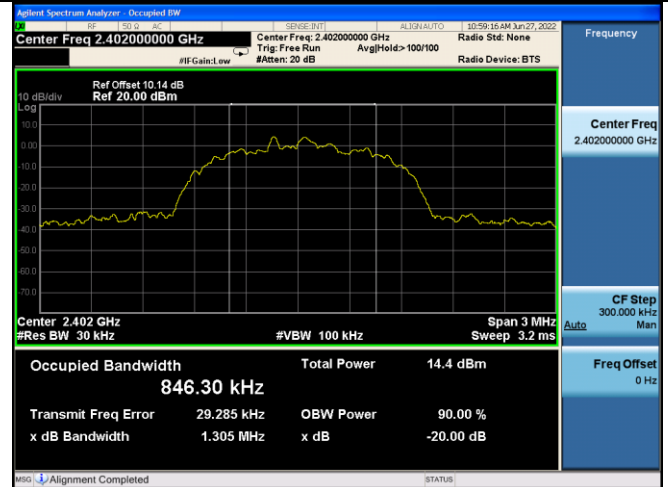
GFSK

2402MHz

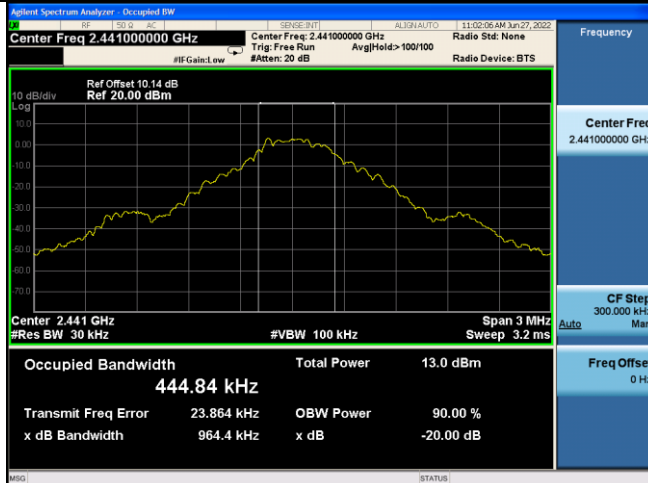


8-DPSK

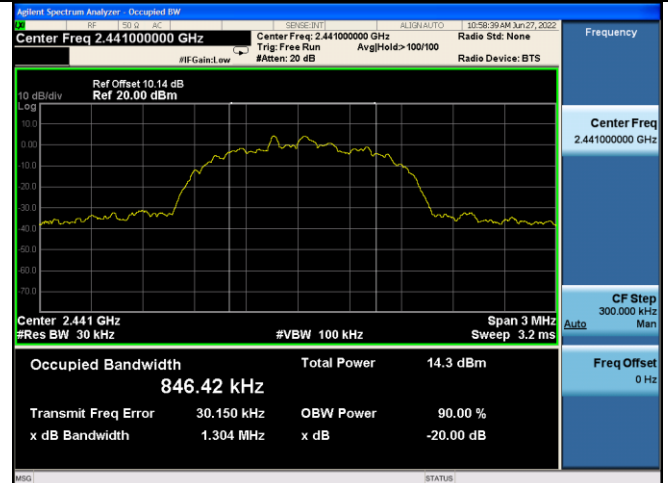
2402MHz



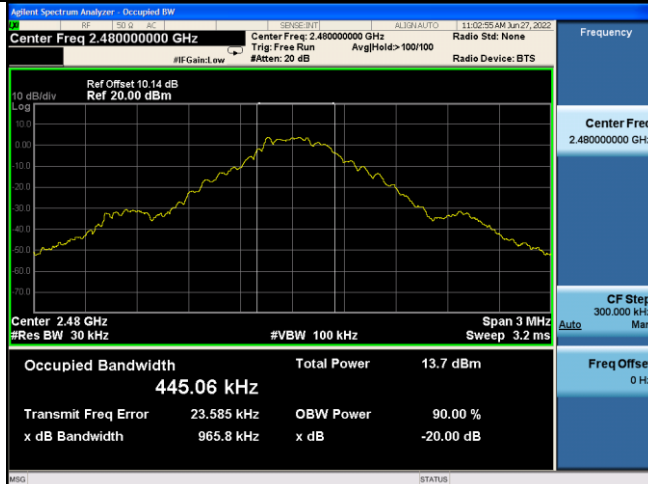
2441MHz



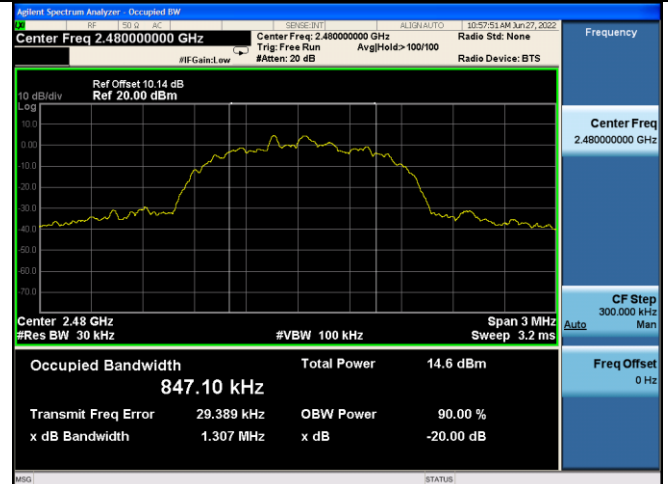
2441MHz



2480MHz



2480MHz



7. CARRIER FREQUENCY SEPARATION TEST

7.1. Test Equipments

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	PXA Signal Analyzer	Agilent	N9030A	MY51380221	Apr.07,22	1 Year
2.	RF Cable	Hubersuhner	SUCOFLEX-106	505238/6	Apr.06,22	1 Year

7.2. Limit

Frequency hopping systems shall have hopping channel carrier frequency separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.3. Test Procedure

Use the test method described in ANSI C63.10 clause 7.8.2:

1. Connect the antenna port of the EUT to the Spectrum analyzer.
2. Let the EUT transmit at Low/ Mid/ High channel.
3. Setting of SA is following as: RBW: 100kHz / VBW: 300kHz.Span: 3MHz
4. Use the mark Delta function of the SA measure out the channel separation.

7.4. Test Results.

EUT: Wireless Stereo Headset			
M/N: YY2962			
Test date: 2022-06-27		Pressure: 102.1 ±1.0 kpa	Humidity: 53.2 ±3.0%
Tested by: Jerry		Test site: RF site	Temperature: 22.3 ±0.6 °C
Test Mode	Channel separation	Limit(kHz)	Conclusion
GFSK	1.0MHz	644.067	PASS
8-DPSK	1.0MHz	871.333	PASS

