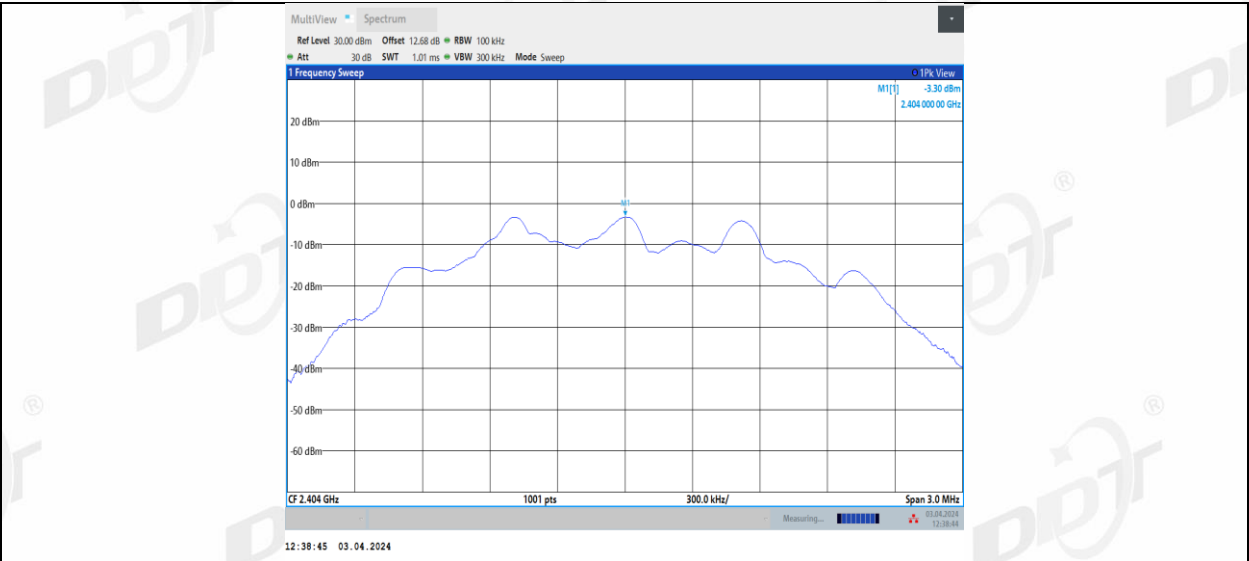
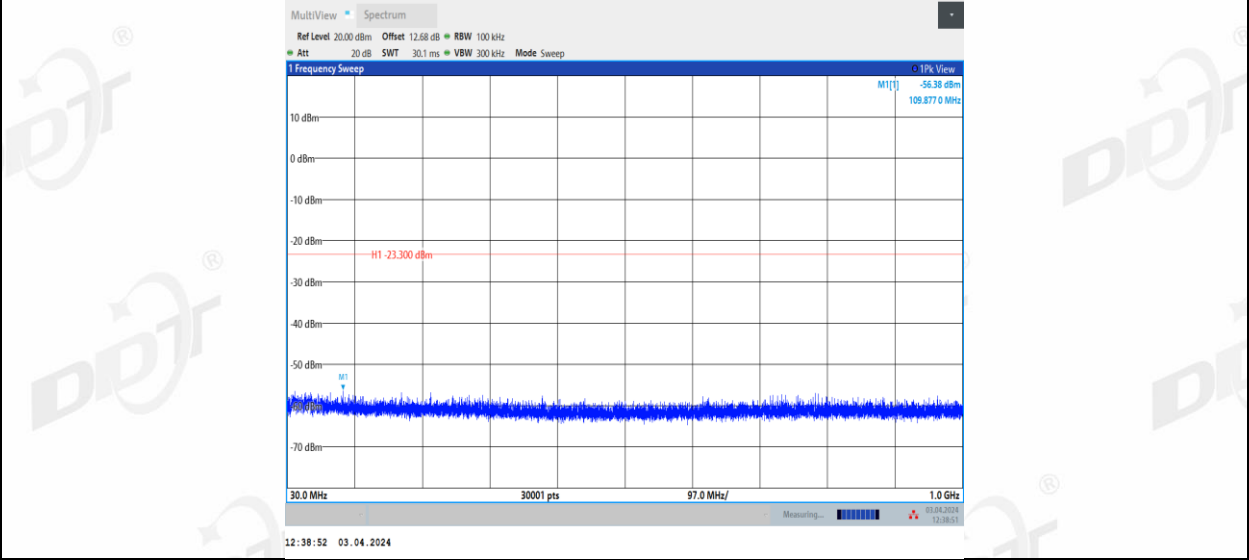
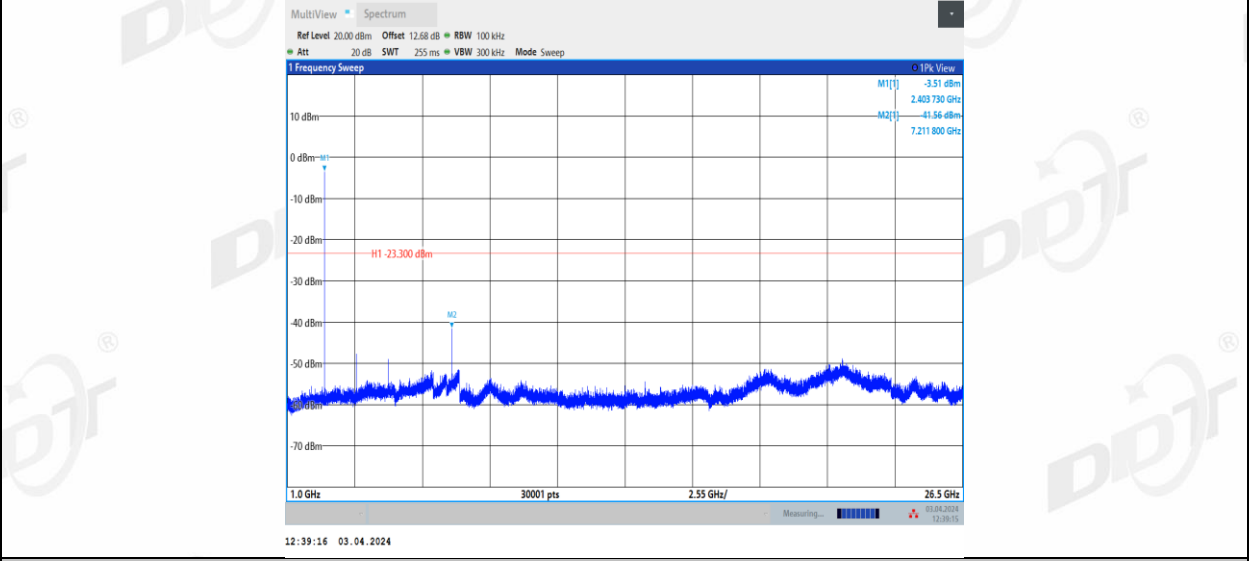




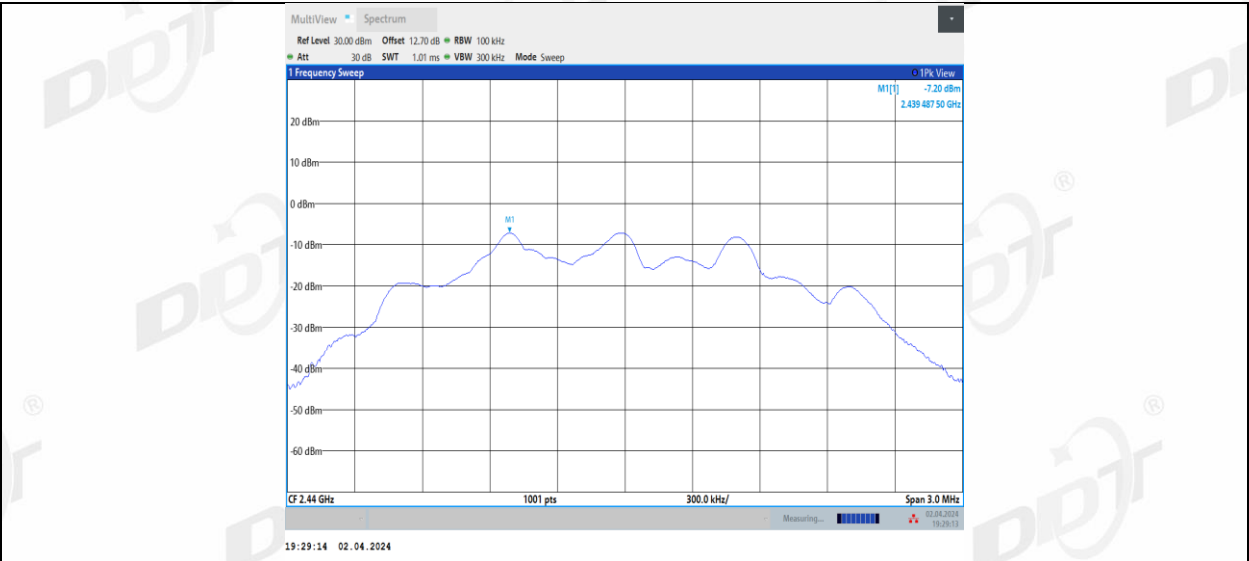
BLE_2M_Right side_2404_30~1000



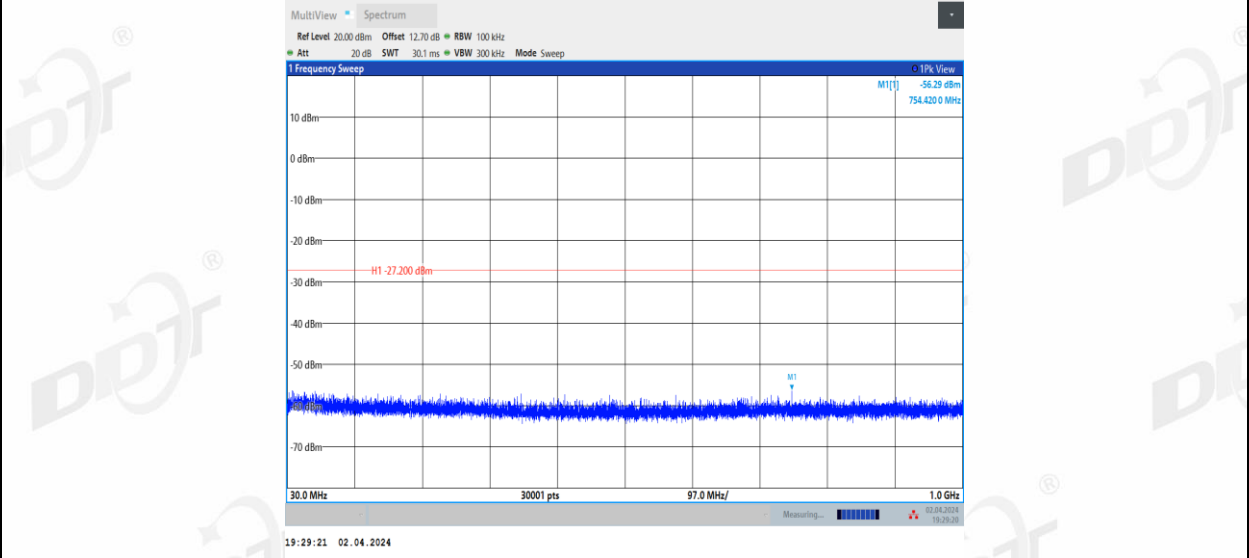
BLE_2M_Right side_2404_1000~26500



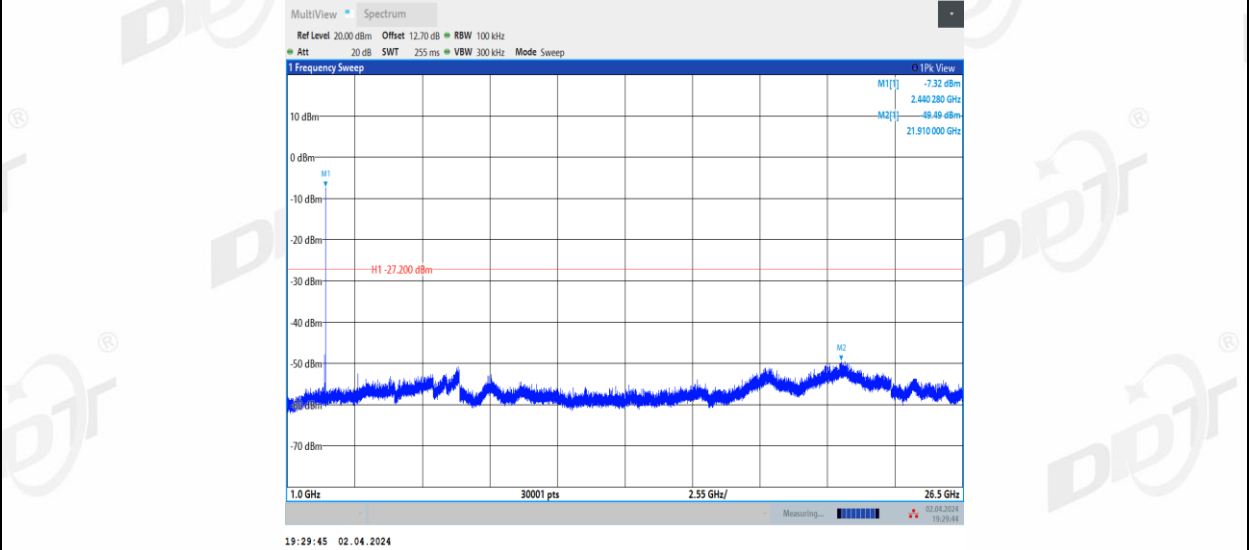
BLE_2M_Left side_2440_0~Reference



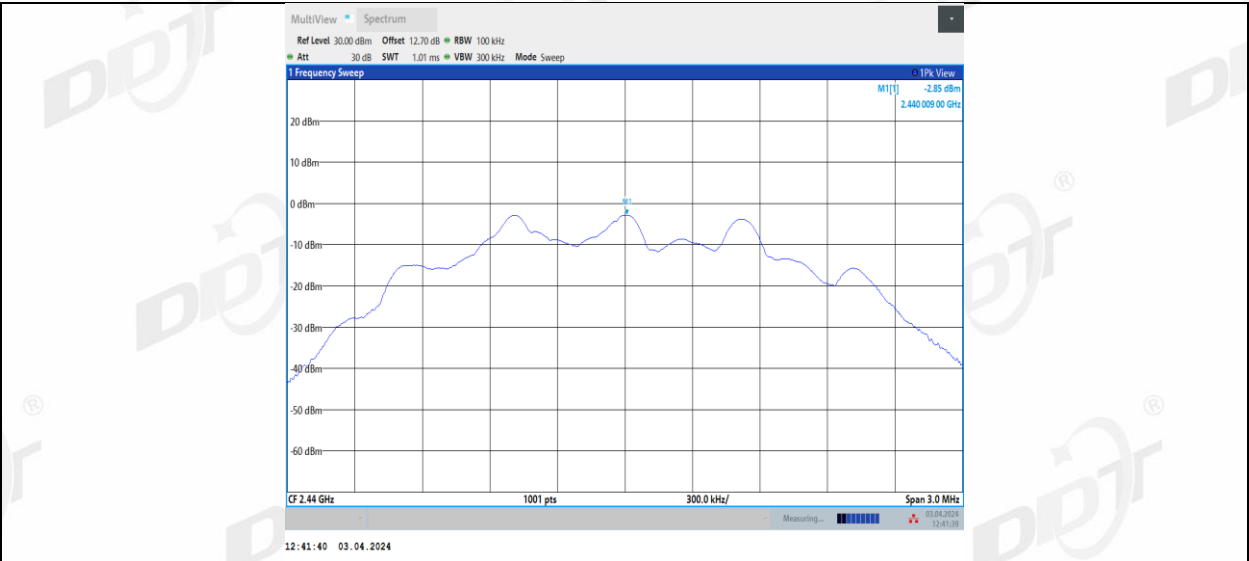
BLE_2M_Left side_2440_30~1000



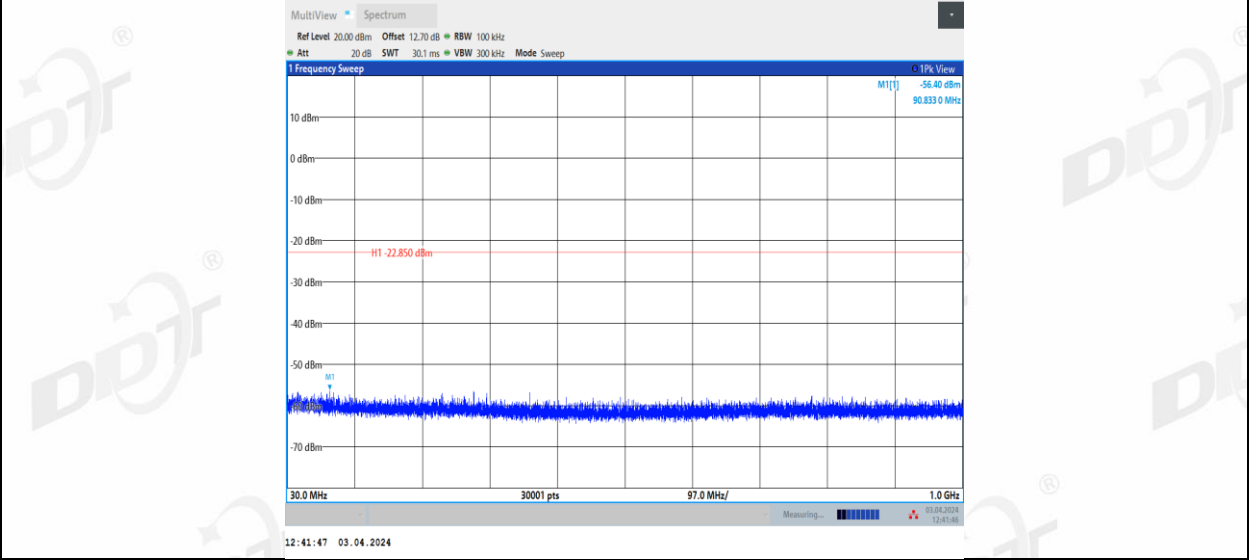
BLE_2M_Left side_2440_1000~26500



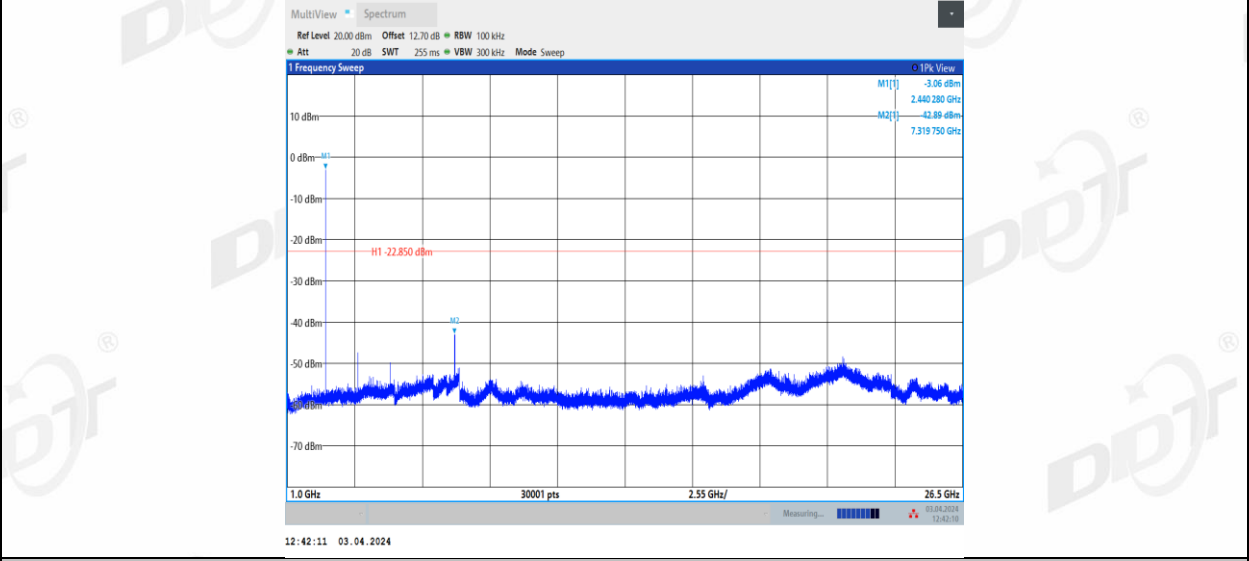
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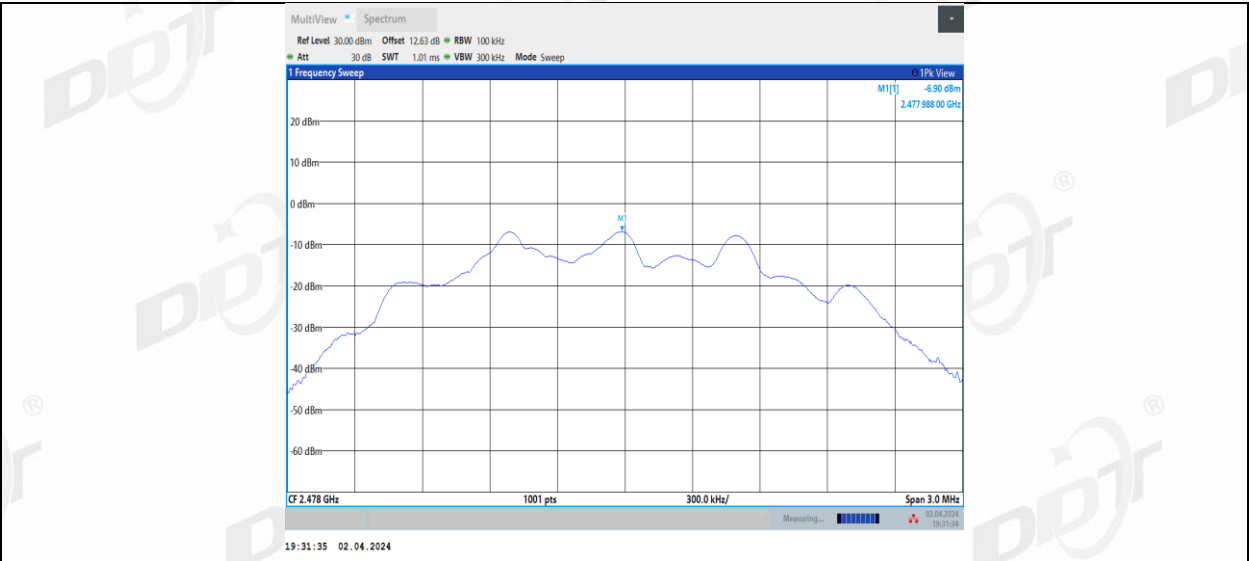
BLE_2M_Right side_2440_30~1000



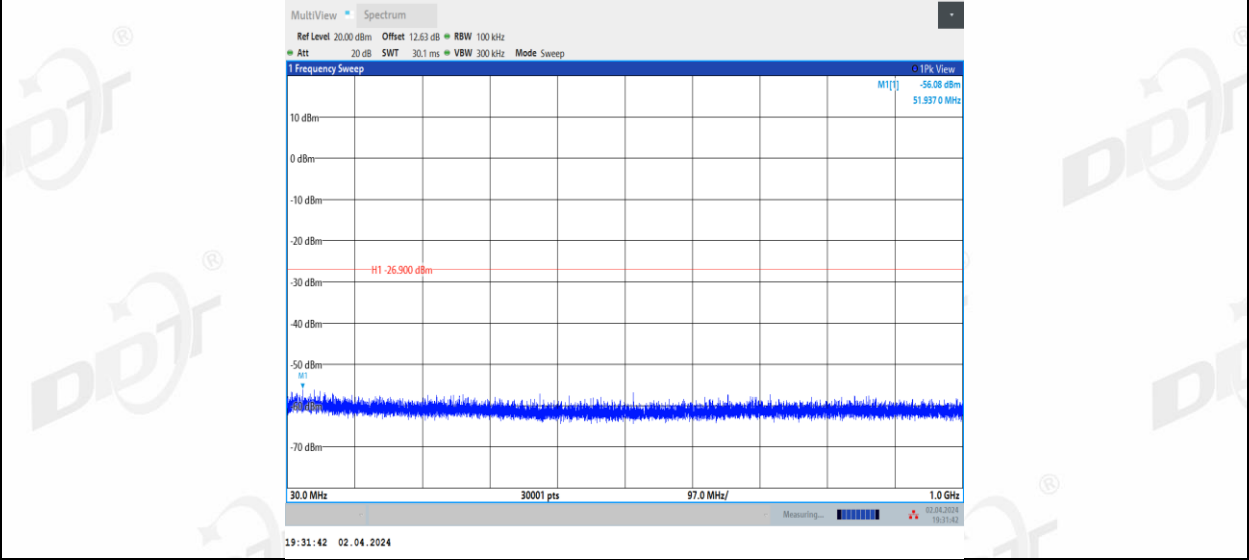
BLE_2M_Right side_2440_1000~26500



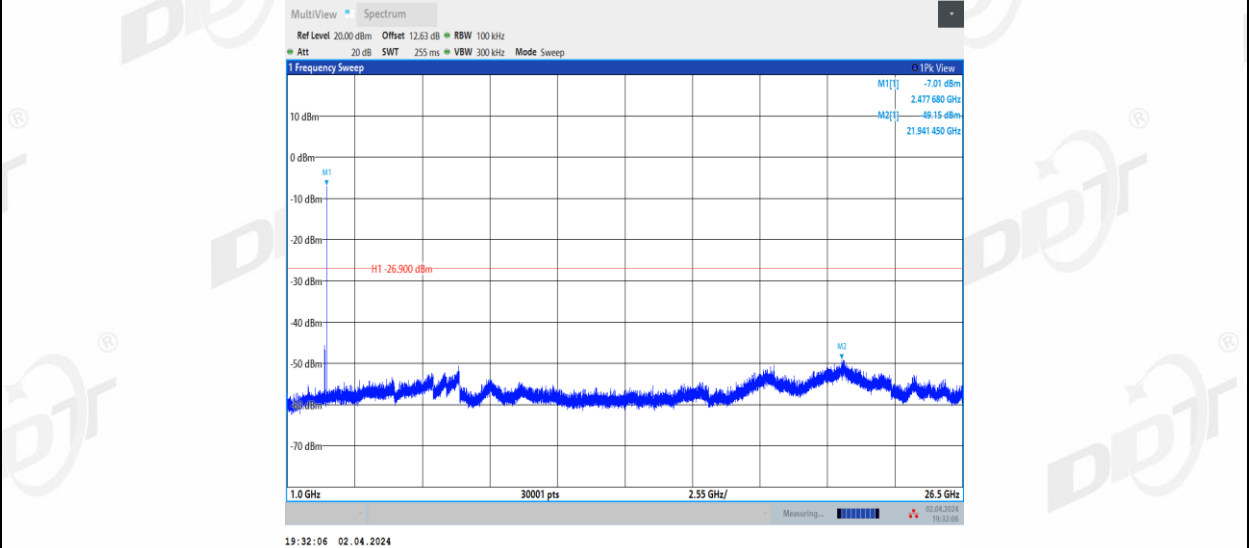
BLE_2M_Left side_2478_0~Reference



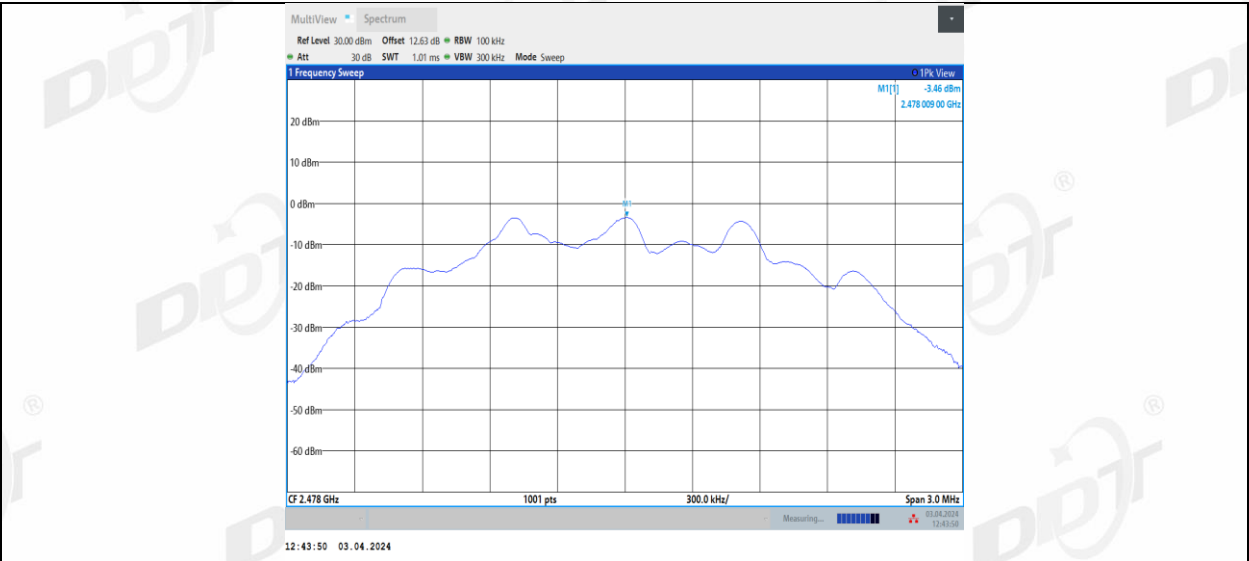
BLE_2M_Left side_2478_30~1000



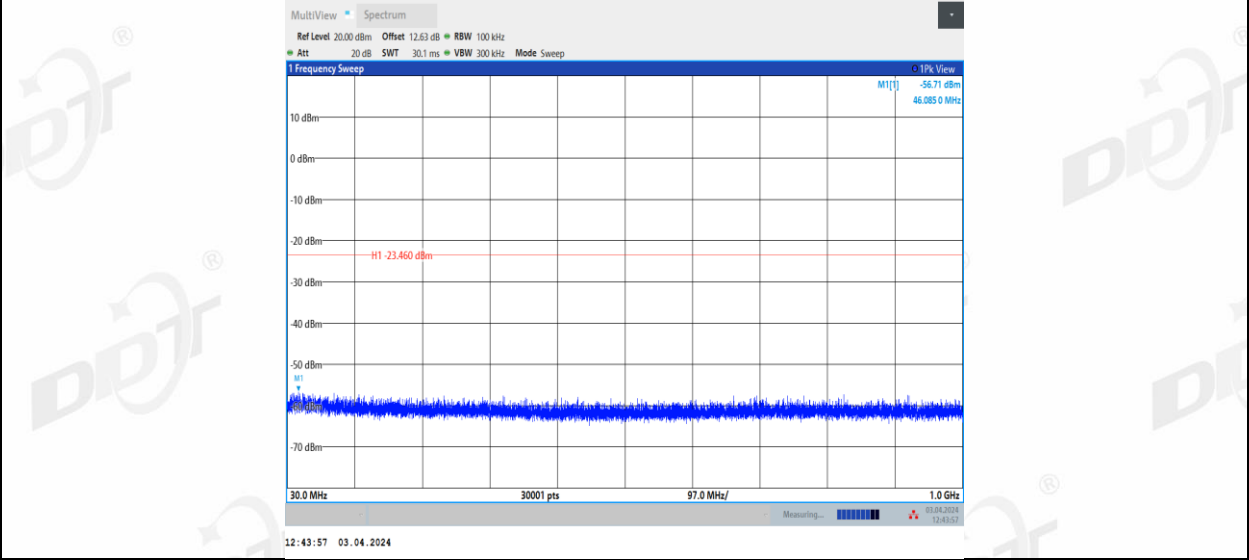
BLE_2M_Left side_2478_1000~26500



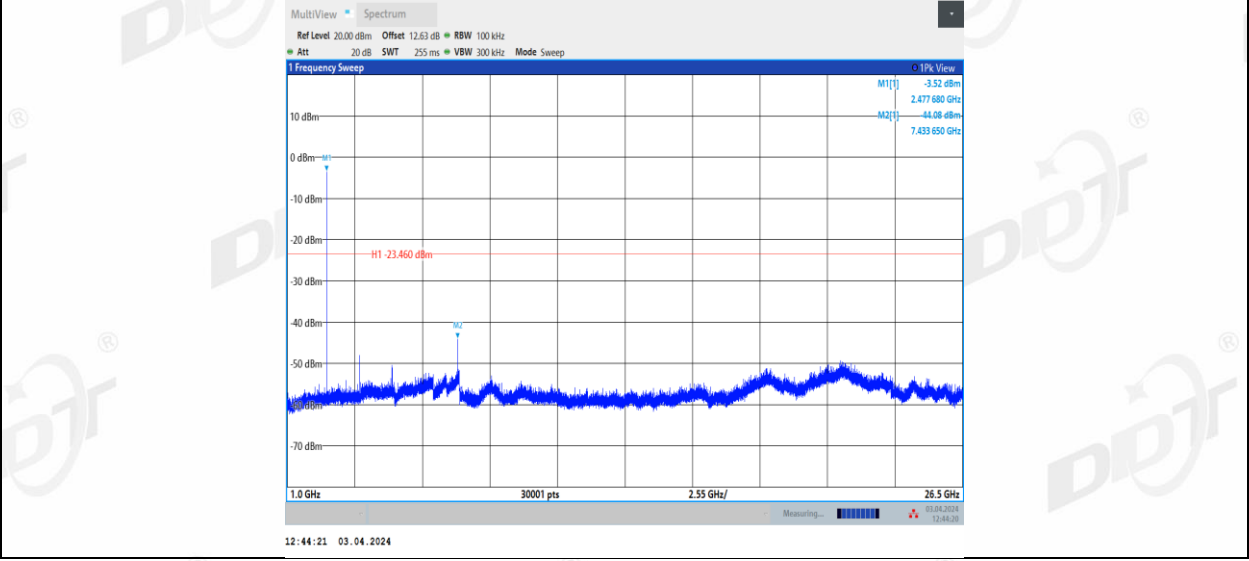
BLE_2M_Right side_2478_0~Reference



BLE_2M_Right side_2478_30~1000

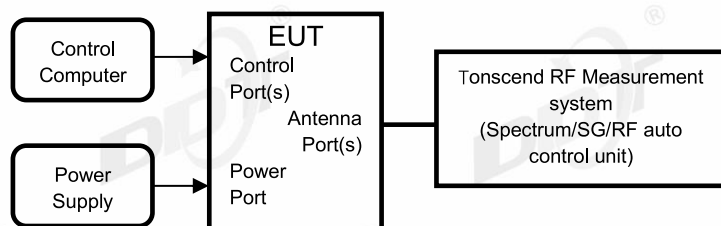


BLE_2M_Right side_2478_1000~26500



10. Duty Cycle

10.1. Block diagram of test setup



10.2. Limit

Just for Report.

10.3. Test procedure

- (1) Connected the EUT's antenna port to the Spectrum Analyzer by suitable attenuator, The cable loss and attenuator loss have been put into spectrum analyzer as amplitude offset.
set the Spectrum Analyzer as below:
 - Centre Frequency: The centre frequency of the middle hopping channel.
 - Resolution BW: 10 MHz.
 - Video BW: 10 MHz.
 - Span: Zero span.
 - Detector: Peak.
 - Trace Mode: Clear Write.
 - Sweep: Video Trigger
- (2) When the trace is complete, measure the sending time of 1 burst and the duty cycle of 1 burst cycle.
- (3) Calculate dwell time follow below formula:
Duty cycle= Pulse's on time / Burst cycle

10.4. Test result

Test Engineer:	Zora Zhang	Test Site:	RF Measurement System 4#
Ambient Condition:	25℃,49.8%RH	Test Date:	2024.03.14-2024.04.03
Test Power Supply:	Battery	Sample Number:	S23122824-01

Test Mode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
BLE_1M	Left side	2402	0.43	0.63	68.25	1.66
	Right side	2402	0.43	0.63	68.25	1.66
	Left side	2440	0.43	0.63	68.25	1.66
	Right side	2440	0.43	0.63	68.25	1.66
	Left side	2480	0.43	0.63	68.25	1.66
	Right side	2480	0.43	0.63	68.25	1.66
BLE_2M	Left side	2404	0.25	0.63	39.68	4.01
	Right side	2404	0.25	0.63	39.68	4.01
	Left side	2440	0.25	0.63	39.68	4.01
	Right side	2440	0.25	0.63	39.68	4.01
	Left side	2478	0.25	0.63	39.68	4.01
	Right side	2478	0.25	0.63	39.68	4.01

BLE_1M_Left_side_2402

MultiView Spectrum

Ref Level 20.00 dBm Offset 12.98 dB RBW 10 MHz

Att 30 dB SWT 5 ms VBW 10 MHz

TRG:VID

1 Zero Span

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

-70 dBm

-TRG

CF 2.402 GHz

1001 pts

500.0 μ s

1Pk Clrw

M1[1] 5.15 dBm

2.500 00 ms

D1[1] 0.18 dB

430.00 μ s

TRG -9.600 dBm

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	2.5 ms	5.15 dBm		
D1	M1	1	430.0 μ s	0.18 dB		
D2	M1	1	630.0 μ s	0.13 dB		

Ready 14.03.2024 14:26:41

BLE_1M_Right_side_2402

MultiView Spectrum

Ref Level 20.00 dBm Offset 12.98 dB RBW 10 MHz

Att 30 dB SWT 5 ms VBW 10 MHz

TRG:VID

1 Zero Span

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

-70 dBm

-TRG

CF 2.402 GHz

1001 pts

500.0 μ s

1Pk Clrw

M1[1] 7.75 dBm

1.250 00 ms

D1[1] 0.14 dB

430.00 μ s

TRG -7.000 dBm

Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	1.25 ms	7.75 dBm		
D1	M1	1	430.0 μ s	0.14 dB		
D2	M1	1	630.0 μ s	0.07 dB		

Ready 14.03.2024 15:39:57

BLE_1M_Left_side_2440

MultiView Spectrum

Ref Level 20.00 dBm Offset 13.00 dB RBW 10 MHz

Att 30 dB SWT 5 ms VBW 10 MHz

TRG:VID

1 Zero Span

10 dBm

0 dBm

-10 dBm

-20 dBm

-30 dBm

-40 dBm

-50 dBm

-60 dBm

-70 dBm

-TRG

CF 2.44 GHz

1001 pts

500.0 μ s

1Pk Clrw

M1[1] 4.71 dBm

2.500 00 ms

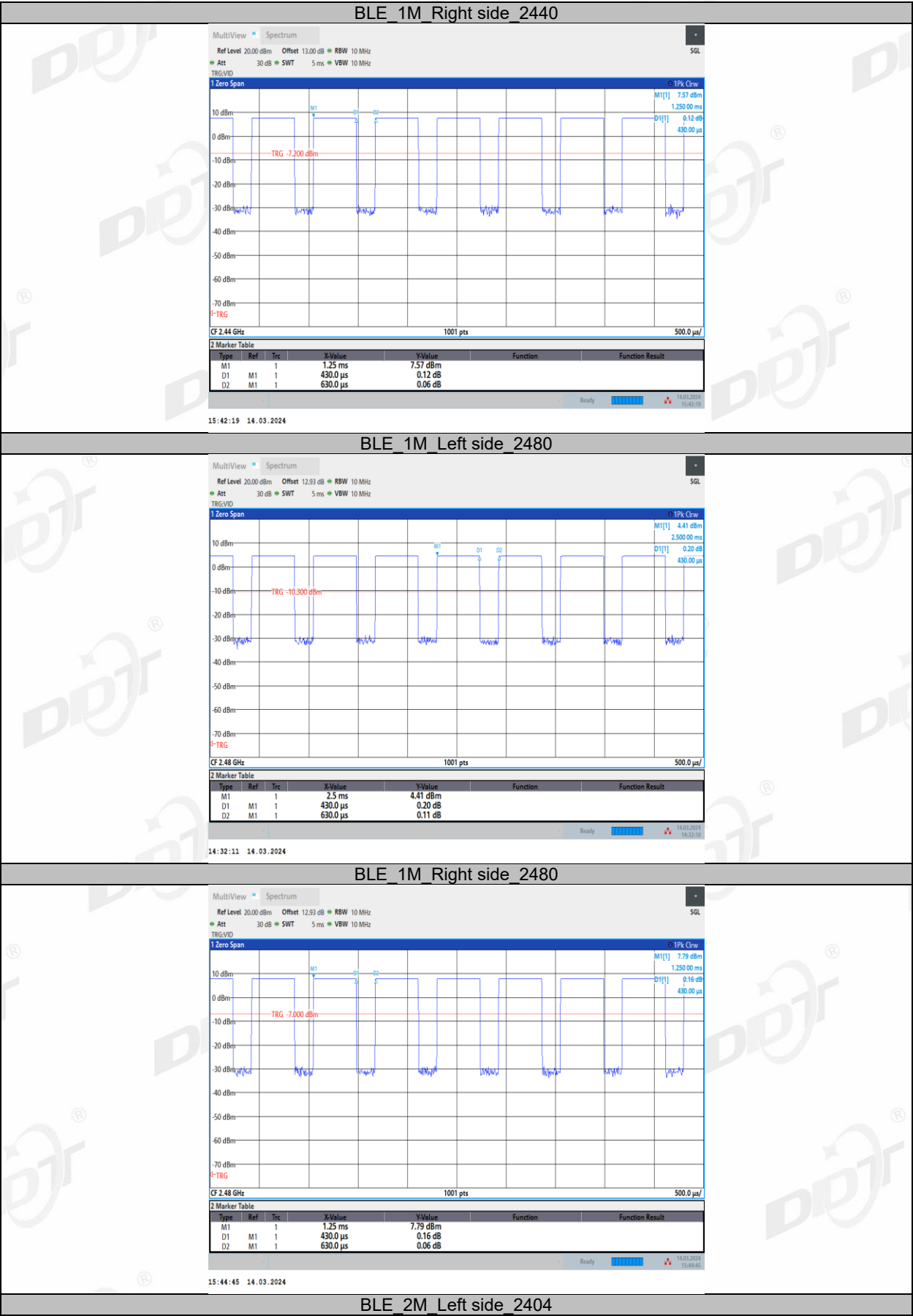
D1[1] 0.06 dB

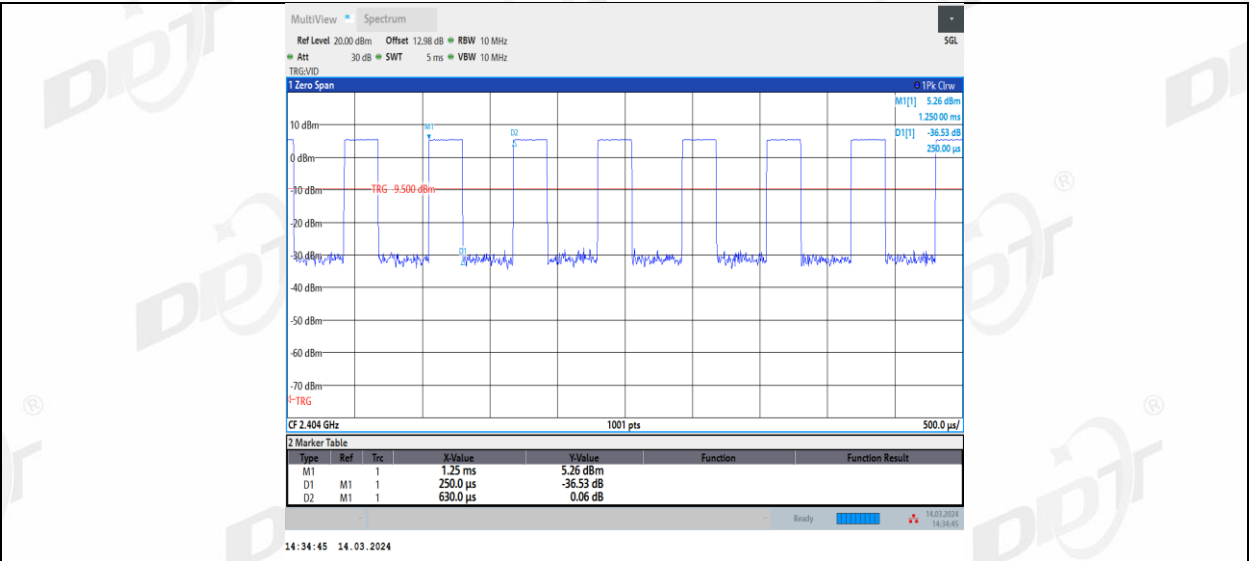
430.00 μ s

TRG -10.000 dBm

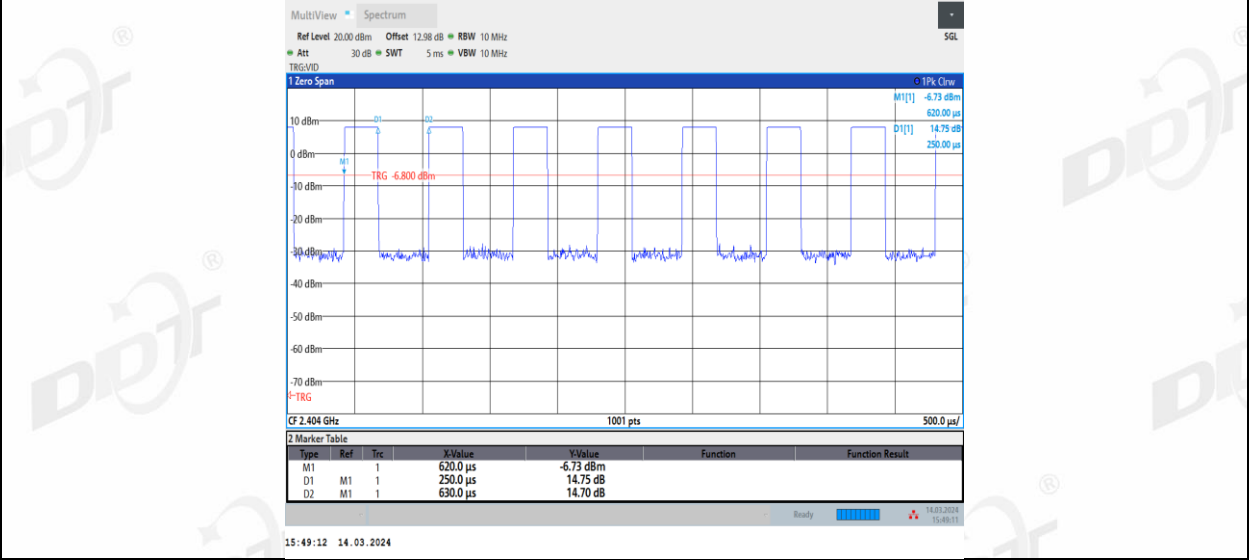
Type	Ref	Trc	X-Value	Y-Value	Function	Function Result
M1		1	2.5 ms	4.71 dBm		
D1	M1	1	430.0 μ s	0.06 dB		
D2	M1	1	630.0 μ s	0.05 dB		

Ready 14.03.2024 14:29:08

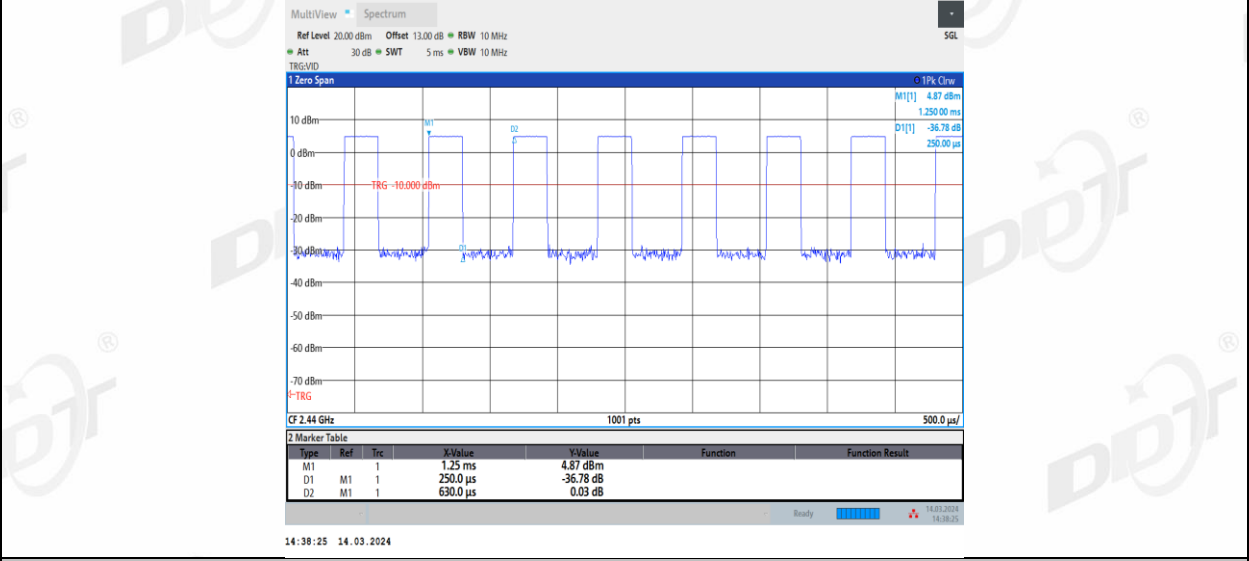




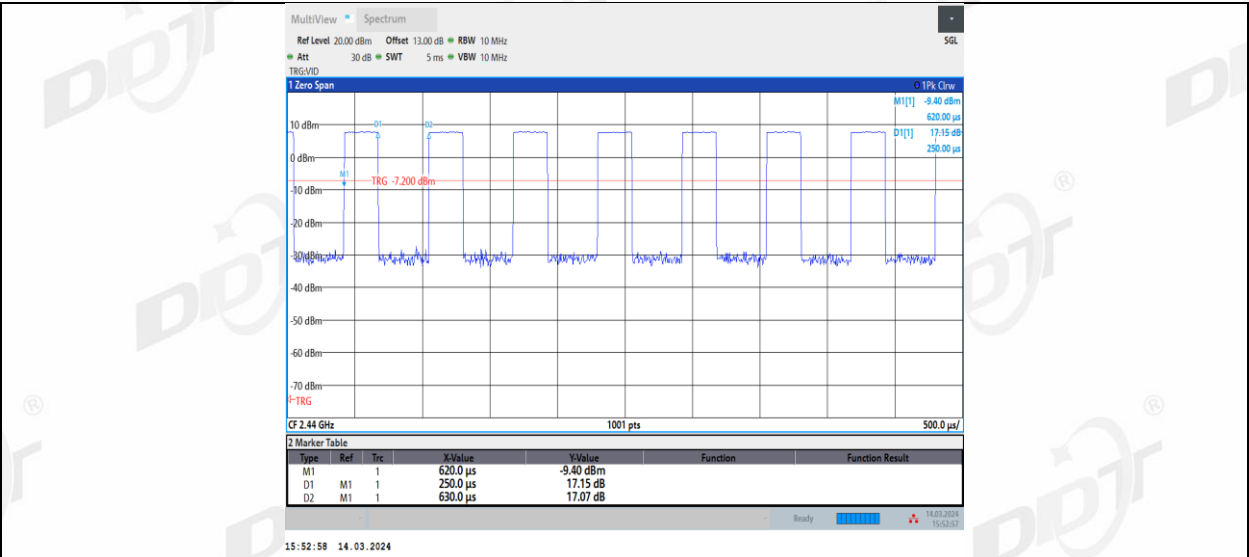
BLE_2M_Right side_2404



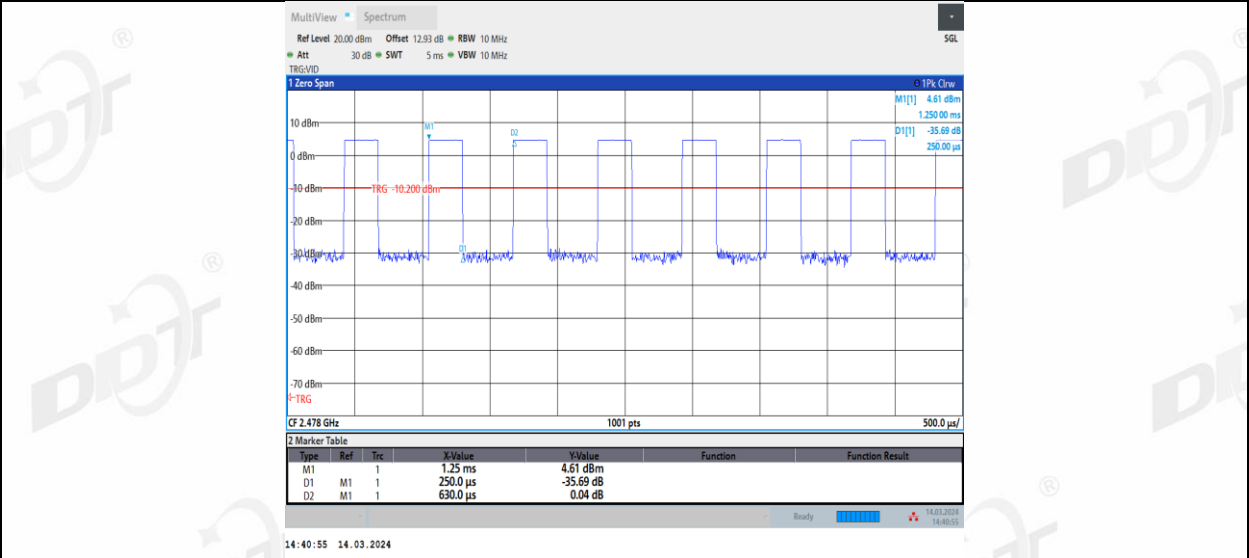
BLE_2M_Left side_2440



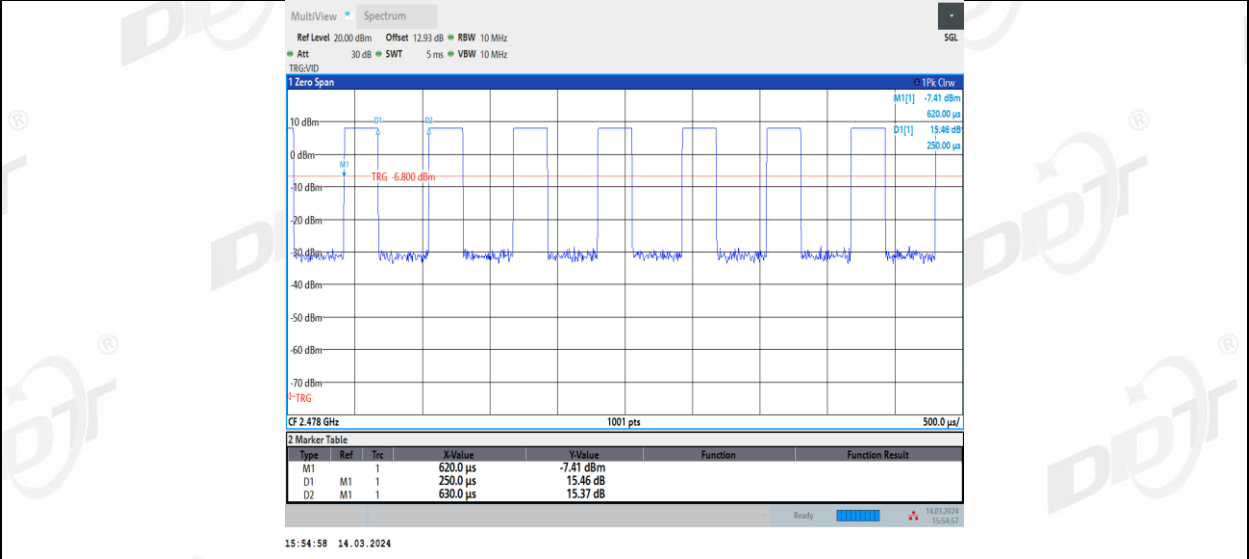
BLE_2M_Right side_2440



BLE_2M_Left side_2478



BLE_2M_Right side_2478



11. Antenna Requirements

11.1. Limit

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2. Result

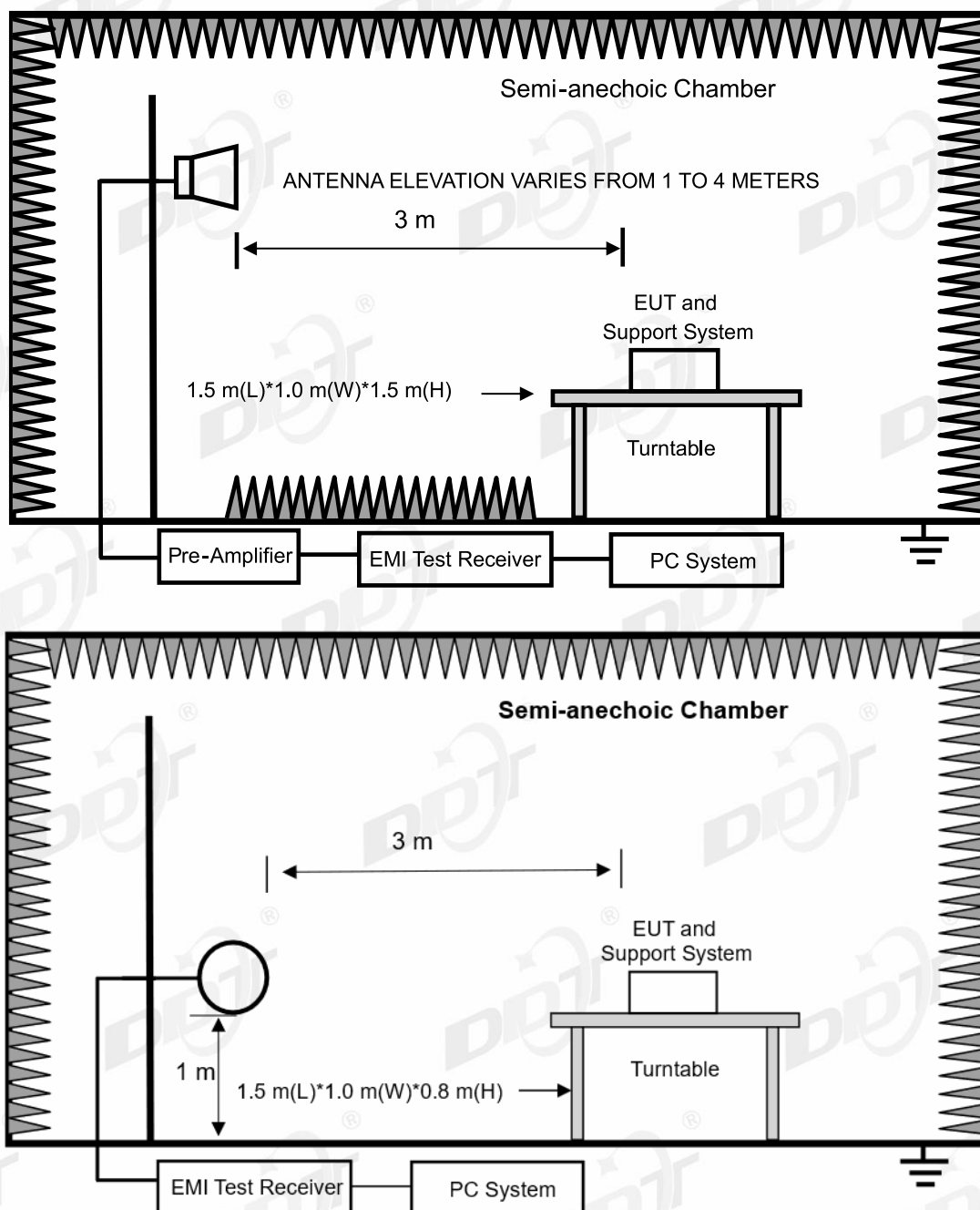
The antenna used for this product as Antenna information described in section 2.1 of the report, and there is no other antenna than that furnished by the responsible party shall be used with the device.

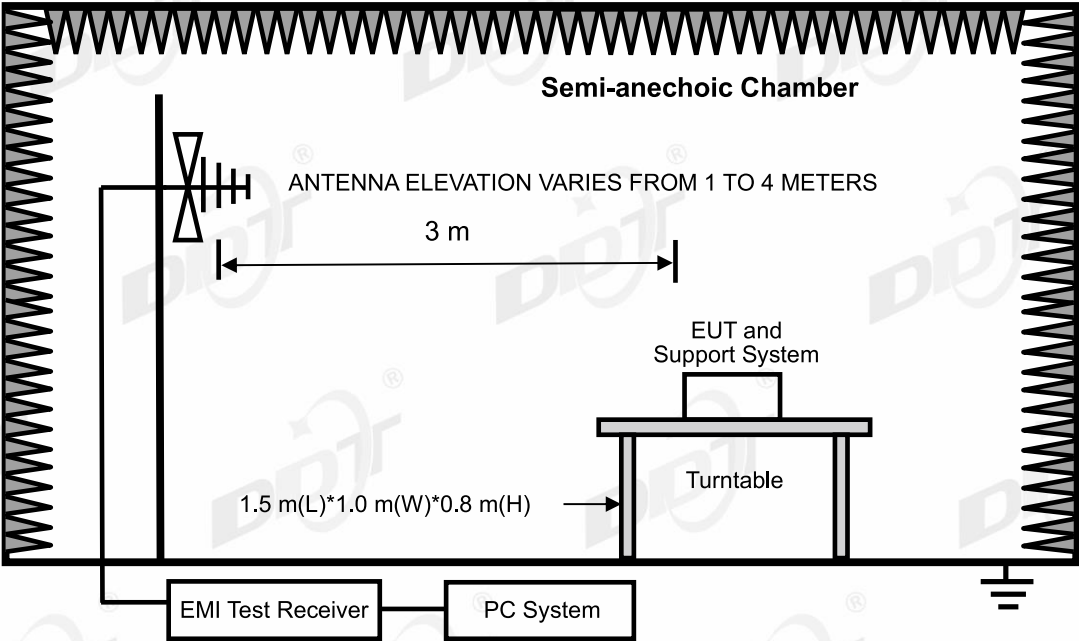
12.Radiated Emission

12.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2024/04/20
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/10
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2024/04/25
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2024/04/22
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2024/07/14
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2024/04/20
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2024/04/20
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2024/04/26
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2024/07/11
Hochgewinn-Hornantenne	Schwarzbeck Mess-Elektronik	BBHA 9120 D	DDT-ZC02129	2025/09/17
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2024/05/14
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2024/04/22
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2024/04/22
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2024/04/22
ELECTRIC AND MAGNETIC FIELD ANALYZER	Narda	EHP-200A	DDT-ZC01401	2024/09/20
High Pass filter	XIANXINGBO	XBLBQ-GTA67	DDT-ZC02179	2024/05/14
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2024/05/14
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/

12.2. Block diagram of test setup





12.3. Limits

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.1772&4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.2072&4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

1Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz

2Above 38.6

(2) FCC 15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		mV/m	dB(mV)/m
0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)
1.705 ~ 30.0	30	30	29.54
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 1000	3	74.0 dB(mV)/m (Peak) 54.0 dB(mV)/m (Average)	

Note:

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

(2) At frequencies below 30 MHz, measurement may be performed at a distance closer than that specified, and the limit at closer measurement distance can be extrapolated by below formula:

$$\text{Limit}_{3\text{m}}(\text{dB}\mu\text{V}/\text{m}) = \text{Limit}_{30\text{m}}(\text{dB}\mu\text{V}/\text{m}) + 40\text{Log}(30\text{m}/3\text{m})$$

(3) Limit for this EUT

The emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20 dB below the fundamental emissions or comply with 15.209 limit.

12.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Laptop	Lenovo	00425-00000-00002-AA135	Fixed frequency computer	N/A

12.5. Test procedure

(1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber for below 1G and 150 cm above the ground plane inside a fully-anechoic chamber for above 1G.

(2) Test antenna was located 3 m from the EUT on an adjustable mast, and the antenna used as below table.

Test frequency range	Test antenna used	Test antenna distance
9 kHz - 30 MHz	Active Loop antenna	3 m
30 MHz - 1 GHz	Trilog Broadband Antenna	3 m

1 GHz - 18 GHz	Double Ridged Horn Antenna(1 GHz-18 GHz)	3 m
18 GHz - 40 GHz	Horn Antenna(18 GHz-40 GHz)	1 m

According ANSI C63.10:2013 clause 6.4.6 and 6.5.3, for measurements below 30 MHz, Antenna was located 3 m from EUT, the loop antenna was positioned in three antenna orientations (parallel, perpendicular, and round-parallel), for each measurement antenna alignment, the EUT shall be rotated through 0° to 360° on a turntable, and the lowest height of the magnetic antenna shall be 1 m above the ground. For measurement above 30MHz, the trilob Broadband Antenna or Horn Antenna was located 3m from EUT, Measurements were made with the antenna positioned in both the horizontal and vertical planes of Polarization, and the measurement antenna was varied from 1 m to 4 m. in height above the reference ground plane to obtain the maximum signal strength.

(3) Below pre-scan procedure was first performed in order to find prominent frequency spectrum radiated emissions from 9 kHz to 25 GHz:

(a) Scanning the peak frequency spectrum with the antenna specified in step (3), and the EUT was rotated 360 degree, the antenna height was varied from 1 m to 4 m (Except loop antenna, it's fixed 1 m above ground.)

(b) Change work frequency or channel of device if practicable.

(c) Change modulation type of device if practicable.

(d) Change power supply range from 85% to 115% of the rated supply voltage

(e) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions.

Spectrum frequency from 9 kHz to 25 GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 18 GHz to 25 GHz, so below final test was performed with frequency range from 9 kHz to 18 GHz.

(4) For final emissions measurements at each frequency of interest, the EUT was rotated and the antenna height was varied between 1 m and 4 m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipment and all of the interface cables were changed according to ANSI C63.10:2013 on Radiated Emission test.

(5) The emissions from 9 kHz to 1 GHz were measured based on CISPR QP detector except for the frequency bands 9 - 90 kHz, 110 - 490 kHz, for emissions from 9 kHz - 90 kHz, 110 kHz - 490 kHz and above 1 GHz were measured based on average detector, for emissions above 1 GHz, peak emissions also be measured and need comply with Peak limit.

(6) The emissions from 9 kHz to 1 GHz, QP or average values were measured with EMI receiver with below RBW.

Frequency band	RBW
9 kHz - 150 kHz	200 Hz
150 kHz - 30 MHz	9 kHz
30 MHz - 1 GHz	120 kHz

(7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1 MHz, VBW is set at 3 MHz for Peak measure; According ANSI C63.10:2013 clause 4.1.4.2.2 procedure for average measure.

(8) For portable device, X axis, Y axis, Z axis are tested, and worse setup is reported.

12.6. Test result

PASS. (See below detailed test result)

All the emissions except fundamental emission from 9 kHz to 25 GHz were comply with 15.209 limits.

Note1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz and 18 GHz to 25 GHz, so the final test was performed with frequency range from 30 MHz to 18 GHz and recorded in below.

Note2: 30 MHz ~ 25 GHz: (Scan with GFSK 1M, the worst case is reported)

Note3: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in GFSK 2M Tx 2440 MHz mode.

Note4: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

12.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-04-01

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

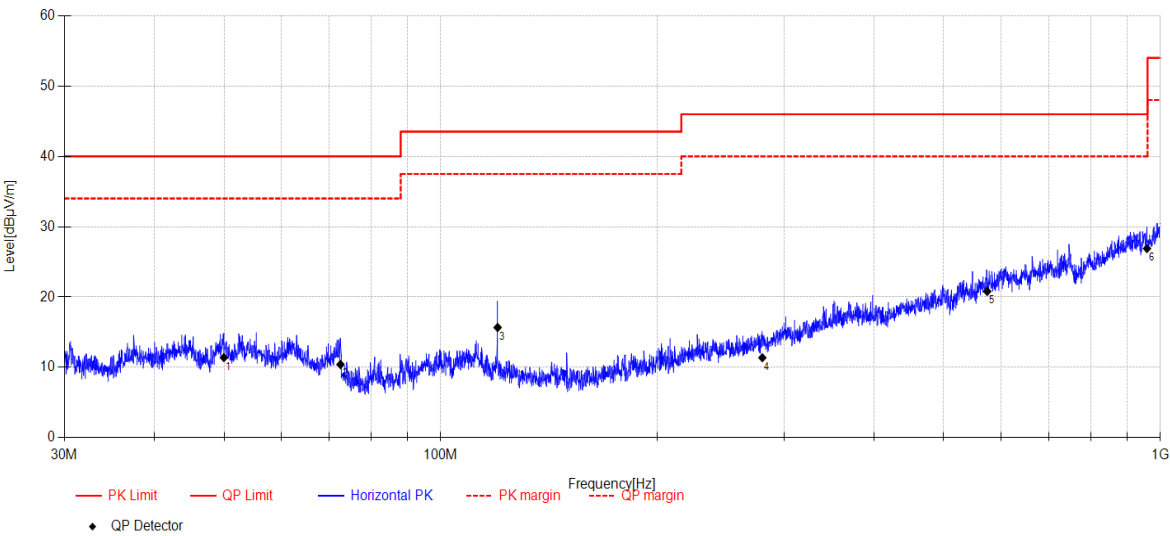
DDT 3# Chamber

File Path:

d:\ts\2024 report data\Q23122824-2E JLH1\FCC BELOW 1G\20240401-171412_H

Memo:

Sample Number:S23122824-03 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	49.981	24.38	12.99	4.73	-30.70	11.40	40.00	28.60	QP	Horizontal
2	72.579	26.79	9.37	4.80	-30.55	10.41	40.00	29.59	QP	Horizontal
3	119.991	31.35	10.00	5.17	-30.84	15.68	43.50	27.82	QP	Horizontal
4	279.899	23.27	12.40	6.07	-30.36	11.38	46.00	34.62	QP	Horizontal
5	574.690	25.09	18.39	7.23	-29.90	20.81	46.00	25.19	QP	Horizontal
6	958.130	24.86	21.98	8.54	-28.48	26.90	46.00	19.10	QP	Horizontal

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-04-01

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

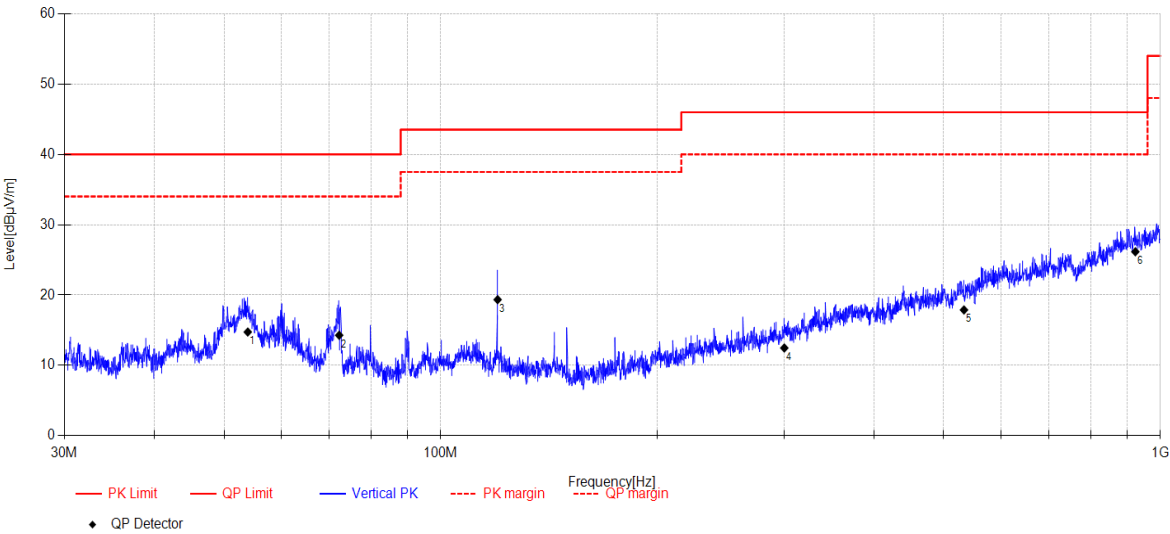
DDT 3# Chamber

File Path:

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Memo:

Sample Number:S23122824-03 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	53.951	28.32	12.36	4.74	-30.67	14.75	40.00	25.25	QP	Vertical
2	72.274	30.55	9.49	4.80	-30.55	14.29	40.00	25.71	QP	Vertical
3	119.991	35.02	10.00	5.17	-30.84	19.35	43.50	24.15	QP	Vertical
4	300.229	22.93	13.70	6.15	-30.30	12.48	46.00	33.52	QP	Vertical
5	533.525	23.73	17.00	7.06	-29.90	17.89	46.00	28.11	QP	Vertical
6	923.178	24.82	21.71	8.42	-28.79	26.16	46.00	19.84	QP	Vertical

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-04-01

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE2M TX

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

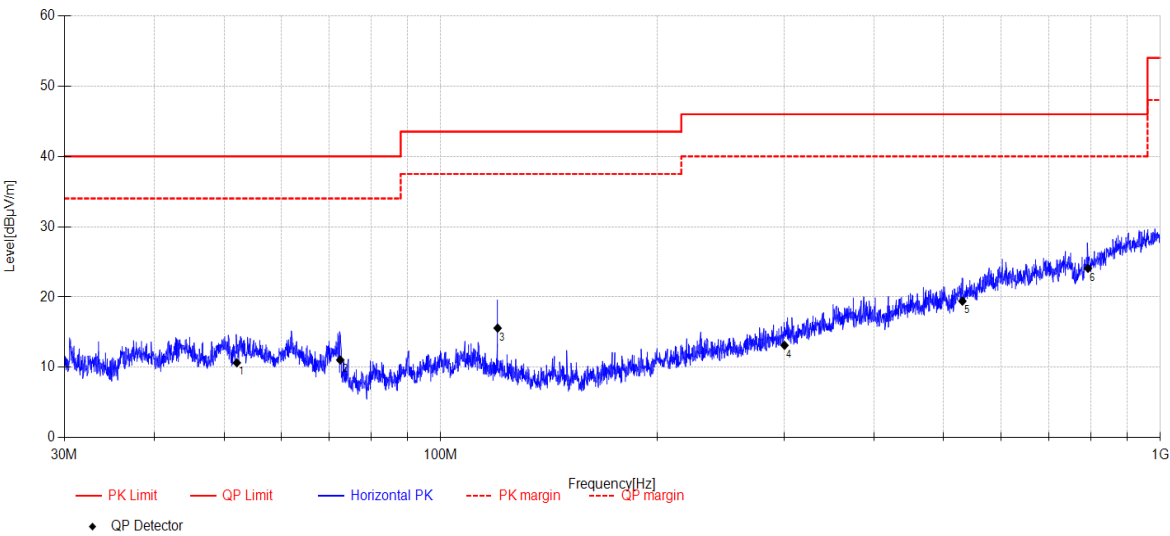
DDT 3# Chamber

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Memo:

Sample Number:S23122824-03 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	52.092	23.65	12.96	4.74	-30.69	10.66	40.00	29.34	QP	Horizontal
2	72.528	27.42	9.39	4.80	-30.55	11.06	40.00	28.94	QP	Horizontal
3	119.991	31.26	10.00	5.17	-30.84	15.59	43.50	27.91	QP	Horizontal
4	300.440	23.59	13.70	6.15	-30.30	13.14	46.00	32.86	QP	Horizontal
5	530.913	24.75	17.52	7.05	-29.90	19.42	46.00	26.58	QP	Horizontal
6	793.433	25.94	20.07	7.97	-29.90	24.08	46.00	21.92	QP	Horizontal

Note:

1. Result Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-04-01

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE2M TX

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

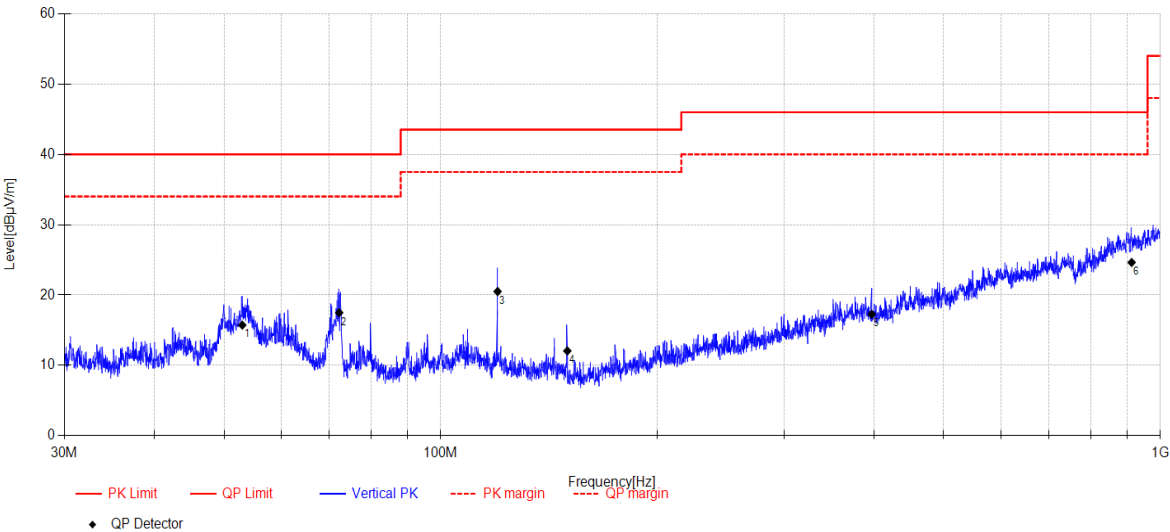
DDT 3# Chamber

File Path:

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Memo:

Sample Number:S23122824-03 Power Setting:NA



Data List										
NO.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable Loss [dB]	AMP [dB]	Result [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	53.014	28.09	13.58	4.74	-30.68	15.73	40.00	24.27	QP	Vertical
2	72.274	33.75	9.49	4.80	-30.55	17.49	40.00	22.51	QP	Vertical
3	119.991	36.18	10.00	5.17	-30.84	20.51	43.50	22.99	QP	Vertical
4	149.963	29.37	8.12	5.32	-30.75	12.06	43.50	31.44	QP	Vertical
5	397.149	25.51	15.19	6.68	-30.11	17.27	46.00	28.73	QP	Vertical
6	912.239	23.88	21.27	8.38	-28.89	24.64	46.00	21.36	QP	Vertical

Note:

- Result Level = Reading + Cable loss + Antenna Factor + AMP
- If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.
- Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX 2402MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

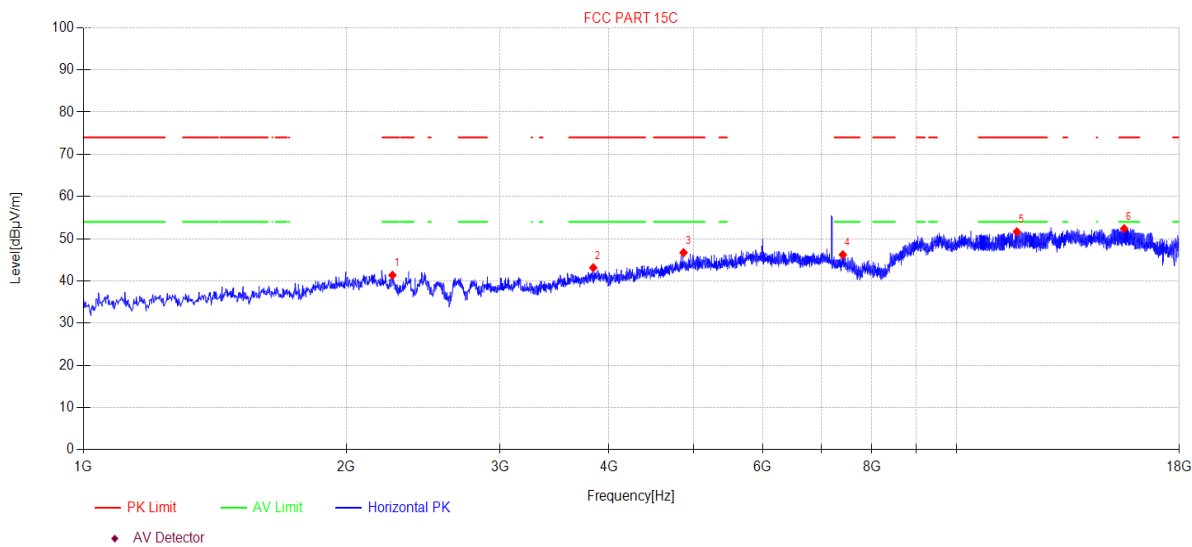
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Memo:

L Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2259.700	45.94	27.20	5.96	-37.74	41.36	74.00	32.64	PK	Horizontal
2	3837.300	46.82	30.85	5.81	-40.35	43.13	74.00	30.87	PK	Horizontal
3	4869.200	45.73	33.49	7.61	-40.13	46.70	74.00	27.30	PK	Horizontal
4	7410.700	43.62	36.68	7.64	-41.73	46.21	74.00	27.79	PK	Horizontal
5	11727.000	41.79	38.97	10.30	-39.43	51.63	74.00	22.37	PK	Horizontal
6	15562.200	38.90	38.68	13.90	-39.10	52.38	74.00	21.62	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX 2402MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

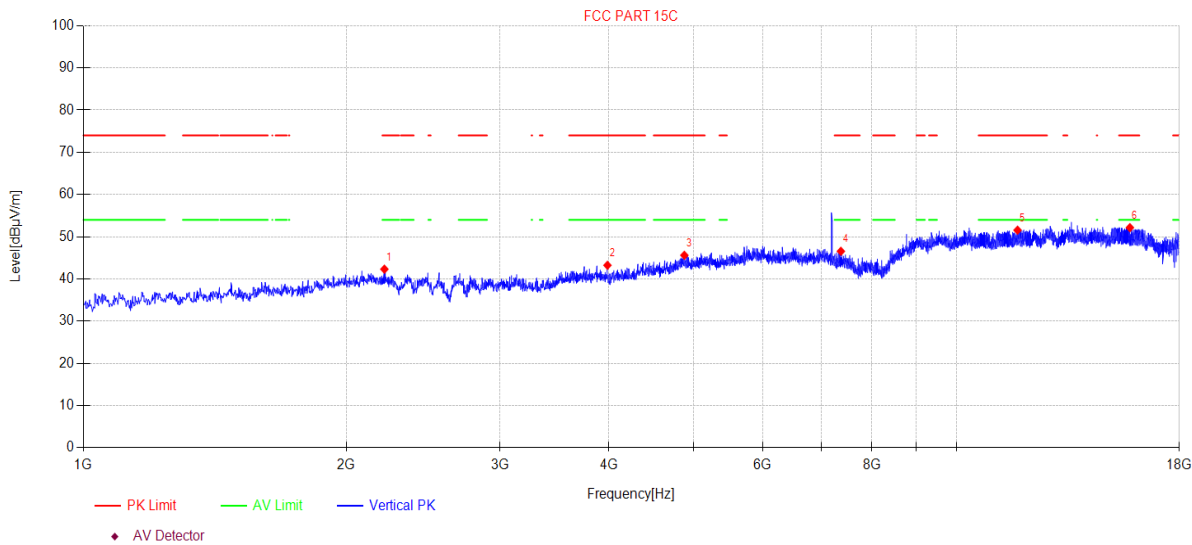
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Memo:

L Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2212.100	46.26	27.68	5.98	-37.61	42.31	74.00	31.69	PK	Vertical
2	3983.500	46.86	30.97	5.85	-40.44	43.24	74.00	30.76	PK	Vertical
3	4879.400	44.76	33.33	7.63	-40.12	45.60	74.00	28.40	PK	Vertical
4	7373.300	43.79	36.75	7.64	-41.63	46.55	74.00	27.45	PK	Vertical
5	11747.400	41.73	38.95	10.32	-39.44	51.56	74.00	22.44	PK	Vertical
6	15798.500	38.12	38.30	14.97	-39.24	52.15	74.00	21.85	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

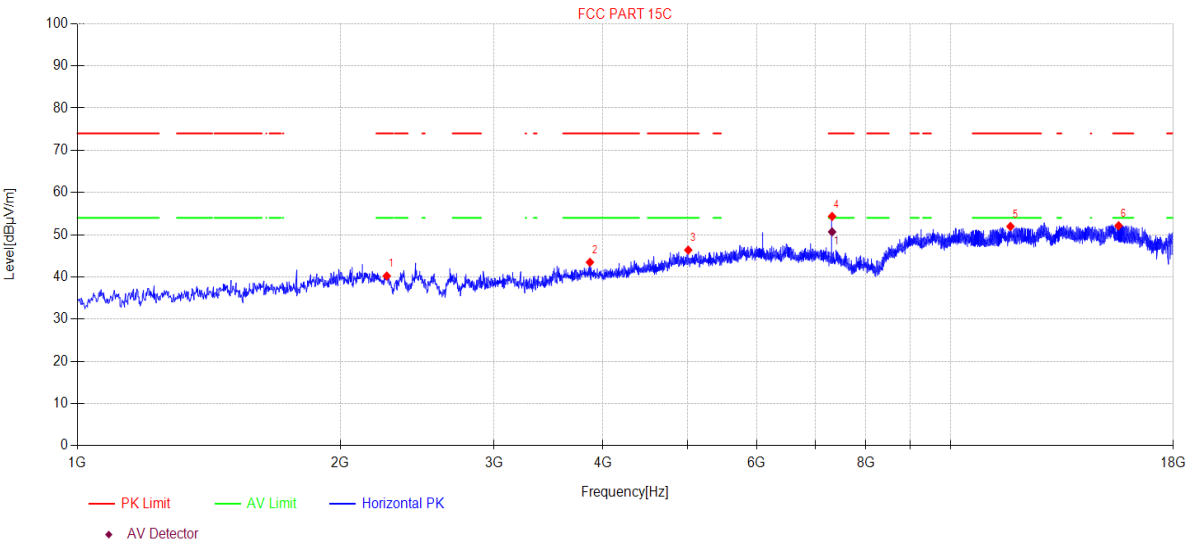
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Memo:

L Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2261.400	44.83	27.19	5.95	-37.75	40.22	74.00	33.78	PK	Horizontal
2	3864.500	47.04	30.99	5.82	-40.37	43.48	74.00	30.52	PK	Horizontal
3	5008.600	45.34	33.22	7.88	-40.08	46.36	74.00	27.64	PK	Horizontal
4	7318.900	51.35	36.86	7.63	-41.50	54.34	74.00	19.66	PK	Horizontal
5	11715.100	42.12	38.98	10.29	-39.43	51.96	74.00	22.04	PK	Horizontal
6	15580.900	38.63	38.64	13.98	-39.11	52.14	74.00	21.86	PK	Horizontal

Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7318.900	47.68	36.86	7.63	-41.50	50.67	54.0	3.33	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

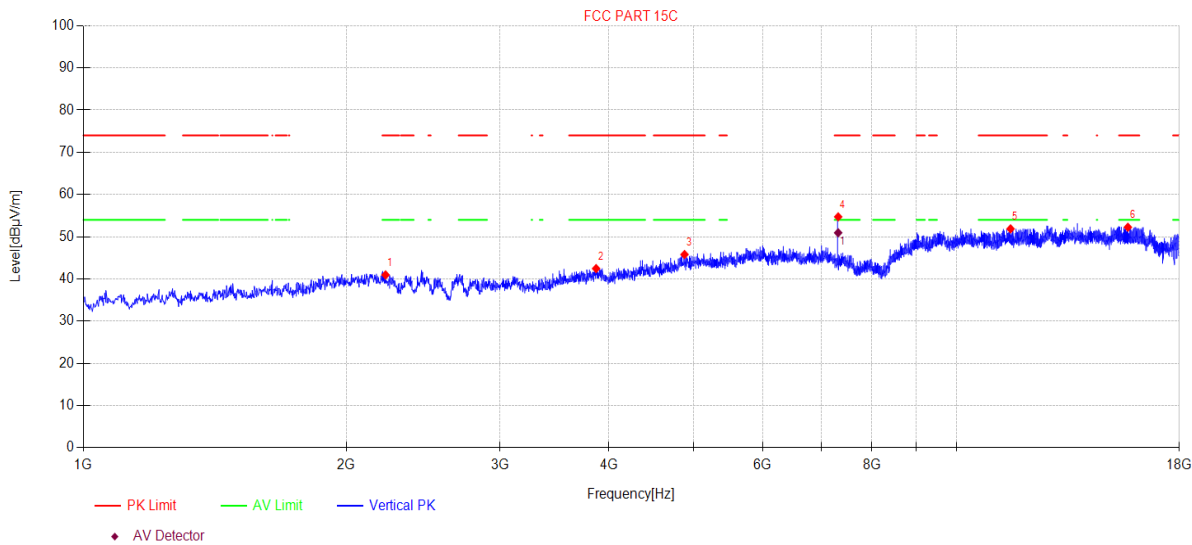
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Memo:

L Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2218.900	45.00	27.61	5.97	-37.63	40.95	74.00	33.05	PK	Vertical
2	3866.200	46.00	31.00	5.82	-40.37	42.45	74.00	31.55	PK	Vertical
3	4881.100	44.98	33.30	7.63	-40.12	45.79	74.00	28.21	PK	Vertical
4	7320.600	51.73	36.86	7.63	-41.50	54.72	74.00	19.28	PK	Vertical
5	11533.200	41.95	39.13	10.12	-39.34	51.86	74.00	22.14	PK	Vertical
6	15716.900	38.37	38.47	14.60	-39.19	52.25	74.00	21.75	PK	Vertical

Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7320.030	47.95	36.86	7.63	-41.50	50.94	54.0	3.06	AV	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX 2480MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

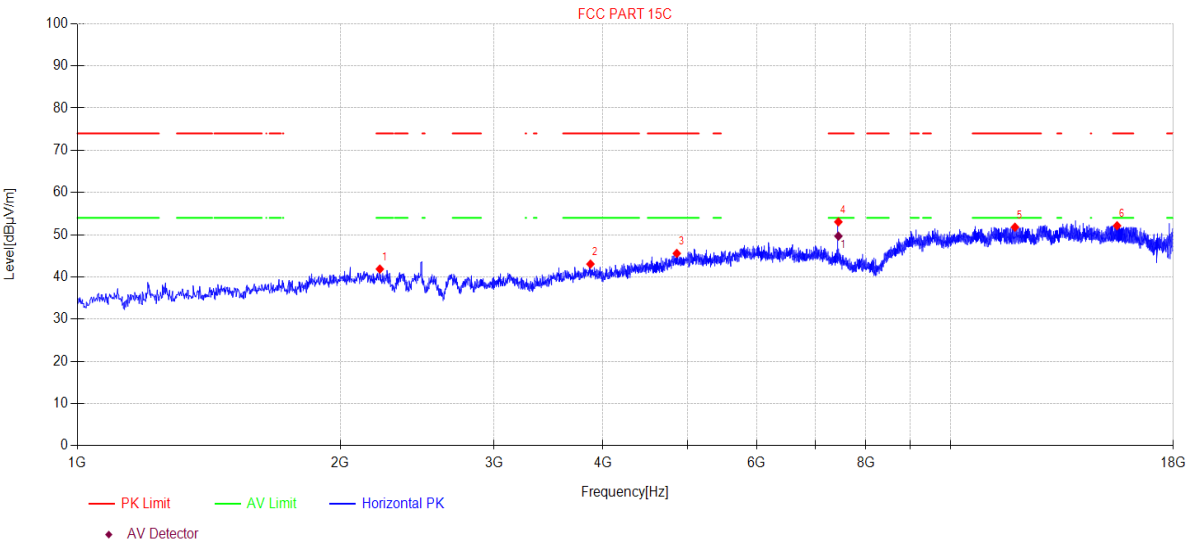
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Memo:

L Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2220.600	45.94	27.59	5.97	-37.63	41.87	74.00	32.13	PK	Horizontal
2	3869.600	46.59	31.02	5.82	-40.37	43.06	74.00	30.94	PK	Horizontal
3	4859.000	44.45	33.66	7.59	-40.13	45.57	74.00	28.43	PK	Horizontal
4	7441.300	50.58	36.62	7.64	-41.80	53.04	74.00	20.96	PK	Horizontal
5	11854.500	41.97	38.90	10.41	-39.49	51.79	74.00	22.21	PK	Horizontal
6	15518.000	38.74	38.76	13.70	-39.07	52.13	74.00	21.87	PK	Horizontal

Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7441.300	47.21	36.62	7.64	-41.80	49.67	54.0	4.33	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX 2480MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

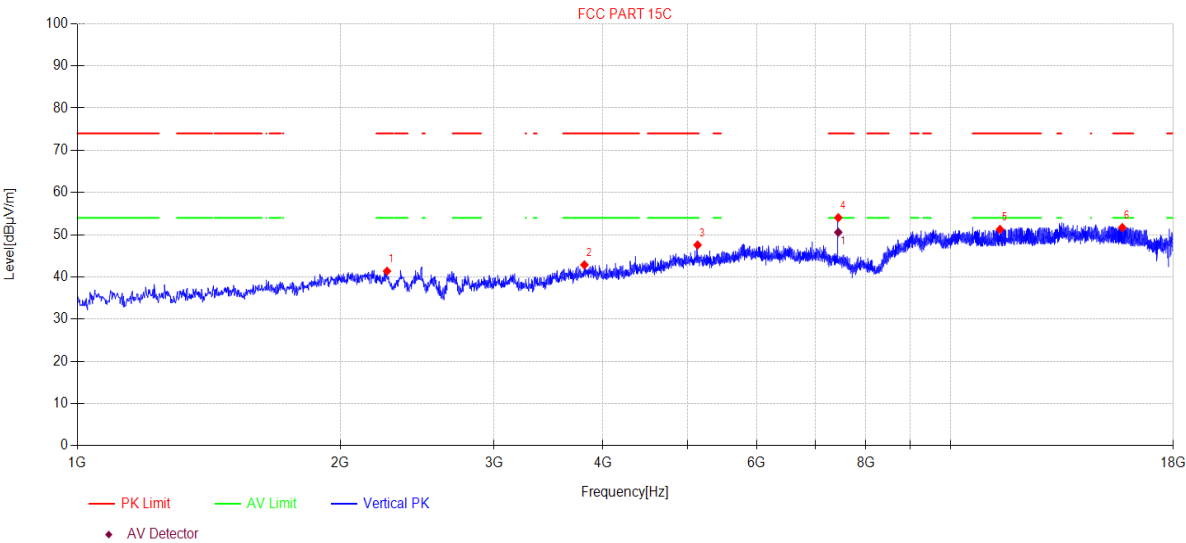
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Memo:

L Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2263.100	46.00	27.17	5.95	-37.75	41.37	74.00	32.63	PK	Vertical
2	3808.400	46.66	30.73	5.81	-40.33	42.87	74.00	31.13	PK	Vertical
3	5132.700	46.16	33.40	8.06	-40.06	47.56	74.00	26.44	PK	Vertical
4	7439.600	51.58	36.62	7.64	-41.80	54.04	74.00	19.96	PK	Vertical
5	11397.200	41.24	39.30	10.00	-39.28	51.26	74.00	22.74	PK	Vertical
6	15733.900	37.80	38.43	14.67	-39.20	51.70	74.00	22.30	PK	Vertical

Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7439.600	48.12	36.62	7.64	-41.80	50.58	54.0	3.42	AV	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE2M TX 2404MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

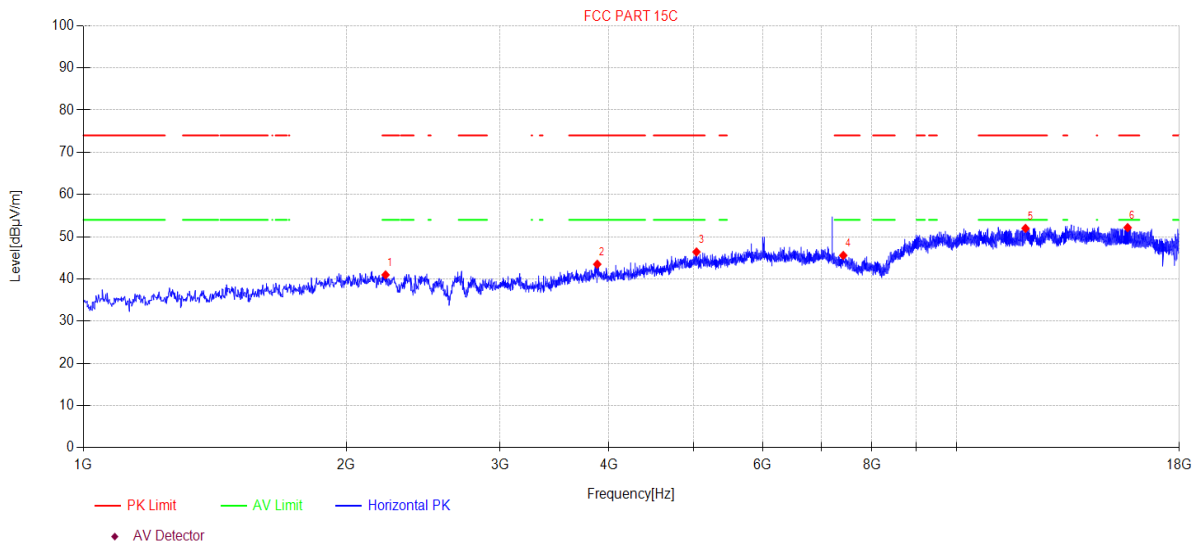
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Memo:

L Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2218.900	45.02	27.61	5.97	-37.63	40.97	74.00	33.03	PK	Horizontal
2	3878.100	46.97	31.07	5.82	-40.38	43.48	74.00	30.52	PK	Horizontal
3	5037.500	45.28	33.28	7.92	-40.08	46.40	74.00	27.60	PK	Horizontal
4	7419.200	43.01	36.66	7.64	-41.75	45.56	74.00	28.44	PK	Horizontal
5	11997.300	41.81	39.19	10.54	-39.56	51.98	74.00	22.02	PK	Horizontal
6	15705.000	38.31	38.49	14.54	-39.18	52.16	74.00	21.84	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE2M TX 2404MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

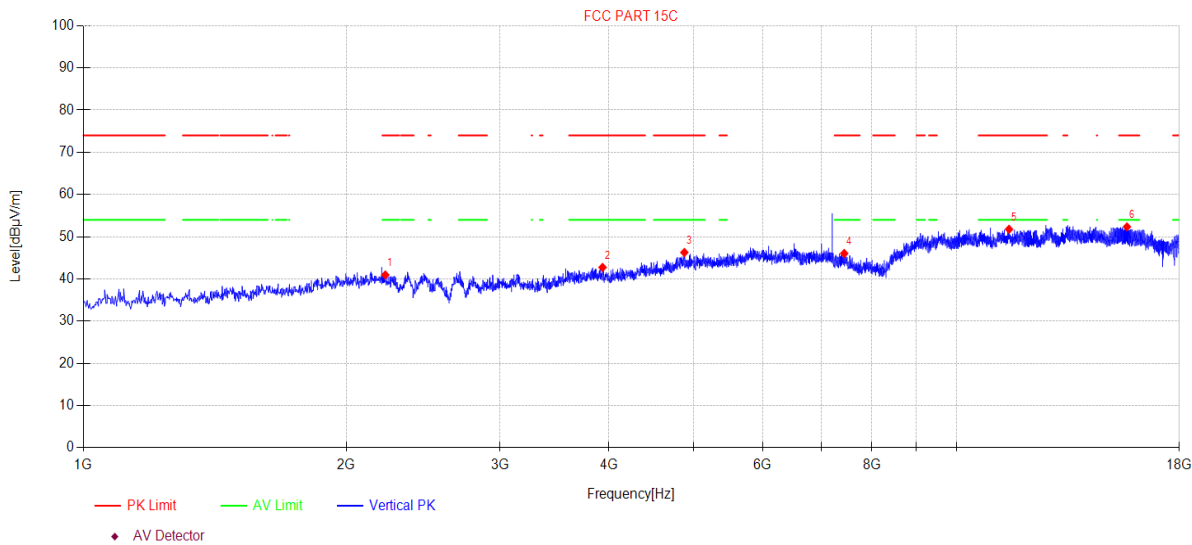
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Memo:

L Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2217.200	44.97	27.63	5.97	-37.62	40.95	74.00	33.05	PK	Vertical
2	3932.500	46.17	31.14	5.84	-40.41	42.74	74.00	31.26	PK	Vertical
3	4879.400	45.44	33.33	7.63	-40.12	46.28	74.00	27.72	PK	Vertical
4	7437.900	43.56	36.62	7.64	-41.79	46.03	74.00	27.97	PK	Vertical
5	11487.300	41.80	39.21	10.08	-39.32	51.77	74.00	22.23	PK	Vertical
6	15677.800	38.57	38.52	14.42	-39.17	52.34	74.00	21.66	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE2M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

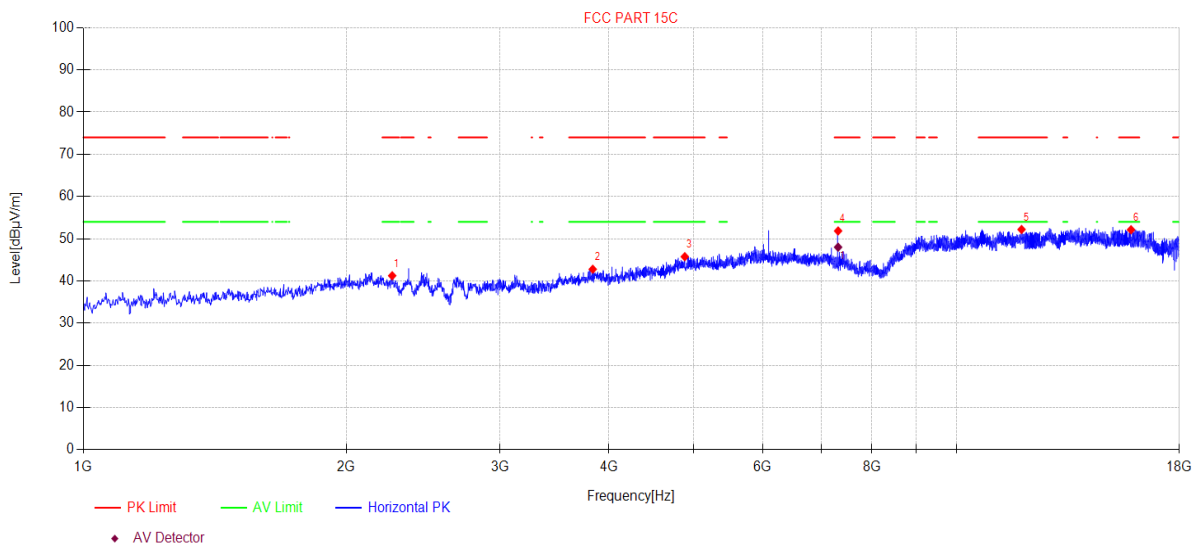
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Memo:

L Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2258.000	45.80	27.22	5.96	-37.74	41.24	74.00	32.76	PK	Horizontal
2	3832.200	46.48	30.83	5.81	-40.35	42.77	74.00	31.23	PK	Horizontal
3	4884.500	44.98	33.25	7.64	-40.12	45.75	74.00	28.25	PK	Horizontal
4	7318.900	48.86	36.86	7.63	-41.50	51.85	74.00	22.15	PK	Horizontal
5	11873.200	42.36	38.90	10.43	-39.50	52.19	74.00	21.81	PK	Horizontal
6	15846.100	38.01	38.21	15.18	-39.27	52.13	74.00	21.87	PK	Horizontal

Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7318.900	45.01	36.86	7.63	-41.50	48.00	54.0	6.00	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE2M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

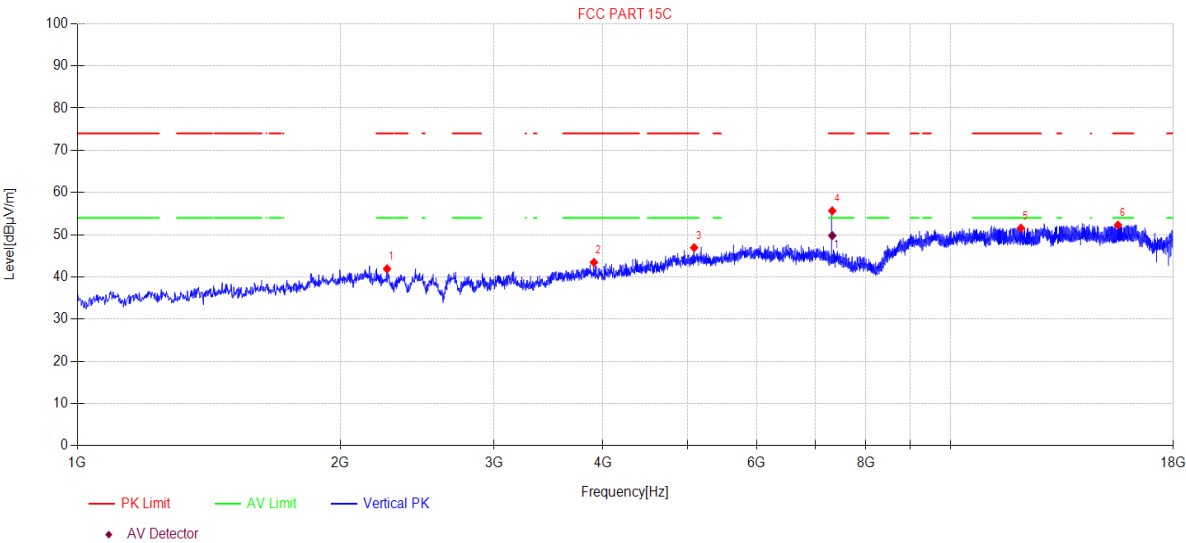
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d:\ts\2024 report data\Q23122824-2E JLH1\FCC ABOVE 1G\84

Memo:

L Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2263.100	46.55	27.17	5.95	-37.75	41.92	74.00	32.08	PK	Vertical
2	3905.300	46.81	31.19	5.83	-40.39	43.44	74.00	30.56	PK	Vertical
3	5086.800	45.65	33.37	7.99	-40.07	46.94	74.00	27.06	PK	Vertical
4	7322.300	52.69	36.86	7.63	-41.51	55.67	74.00	18.33	PK	Vertical
5	12041.500	41.36	39.24	10.54	-39.58	51.56	74.00	22.44	PK	Vertical
6	15555.400	38.81	38.69	13.87	-39.09	52.28	74.00	21.72	PK	Vertical

Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7321.380	46.80	36.86	7.63	-41.51	49.78	54.0	4.22	AV	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-27

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

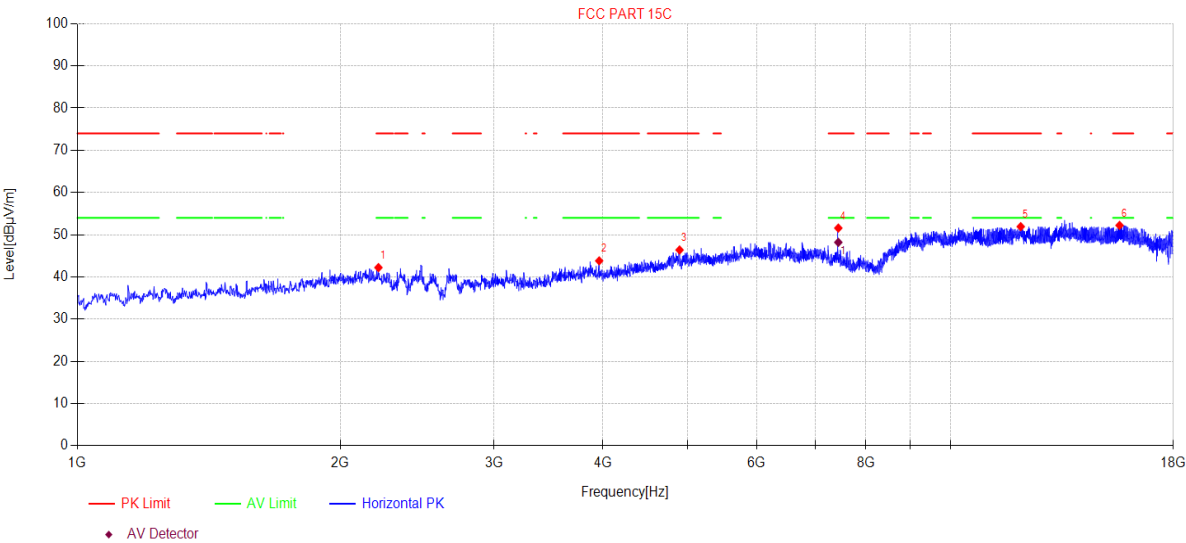
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Memo:

L Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2212.100	46.17	27.68	5.98	-37.61	42.22	74.00	31.78	PK	Horizontal
2	3959.700	47.34	31.06	5.84	-40.43	43.81	74.00	30.19	PK	Horizontal
3	4894.700	45.77	33.08	7.66	-40.12	46.39	74.00	27.61	PK	Horizontal
4	7439.600	49.11	36.62	7.64	-41.80	51.57	74.00	22.43	PK	Horizontal
5	12036.400	41.71	39.24	10.54	-39.57	51.92	74.00	22.08	PK	Horizontal
6	15620.000	38.60	38.58	14.16	-39.13	52.21	74.00	21.79	PK	Horizontal

Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7439.600	45.74	36.62	7.64	-41.80	48.20	54.0	5.80	AV	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-27

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

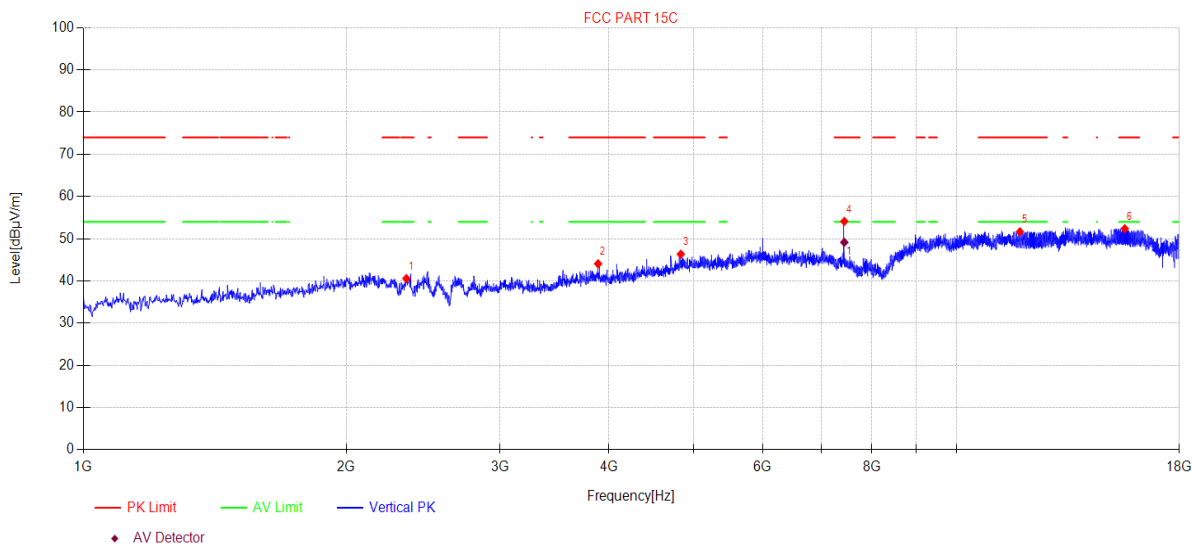
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Memo:

L Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2344.700	45.57	27.07	5.92	-37.99	40.57	74.00	33.43	PK	Vertical
2	3886.600	47.50	31.12	5.83	-40.38	44.07	74.00	29.93	PK	Vertical
3	4833.500	45.58	33.37	7.53	-40.14	46.34	74.00	27.66	PK	Vertical
4	7439.600	51.66	36.62	7.64	-41.80	54.12	74.00	19.88	PK	Vertical
5	11820.500	41.86	38.90	10.38	-39.48	51.66	74.00	22.34	PK	Vertical
6	15587.700	38.87	38.62	14.01	-39.11	52.39	74.00	21.61	PK	Vertical

Data List										
N O.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	7439.600	46.69	36.62	7.64	-41.80	49.15	54.0	4.85	AV	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX 2402MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

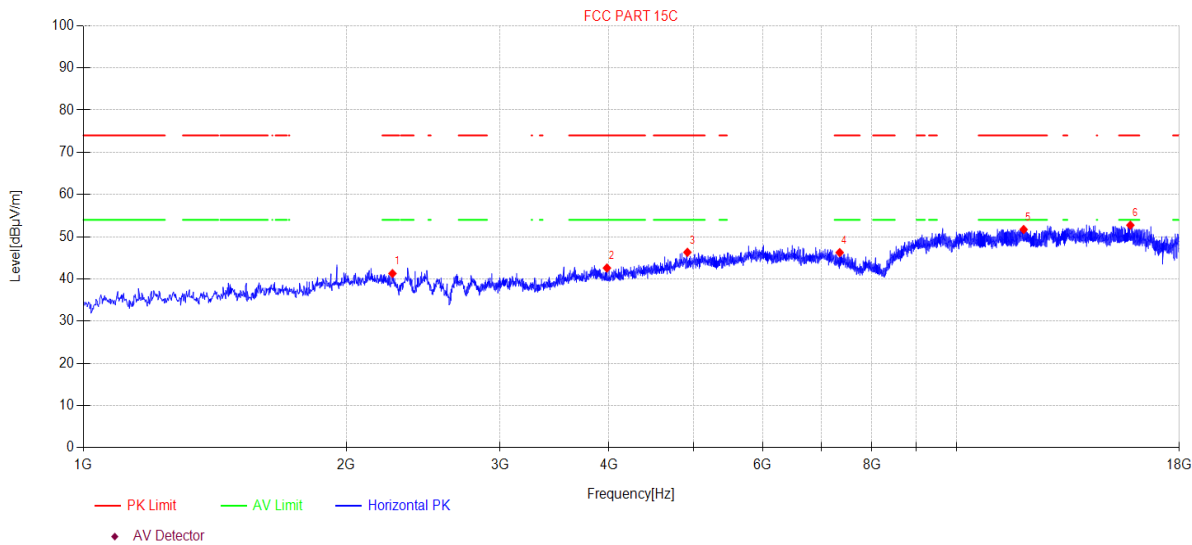
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Memo:

R Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2259.700	45.86	27.20	5.96	-37.74	41.28	74.00	32.72	PK	Horizontal
2	3978.400	46.19	30.99	5.85	-40.44	42.59	74.00	31.41	PK	Horizontal
3	4918.500	45.67	33.04	7.71	-40.11	46.31	74.00	27.69	PK	Horizontal
4	7349.500	43.38	36.80	7.63	-41.57	46.24	74.00	27.76	PK	Horizontal
5	11939.500	41.73	39.02	10.49	-39.53	51.71	74.00	22.29	PK	Horizontal
6	15818.900	38.67	38.26	15.06	-39.25	52.74	74.00	21.26	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX 2402MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

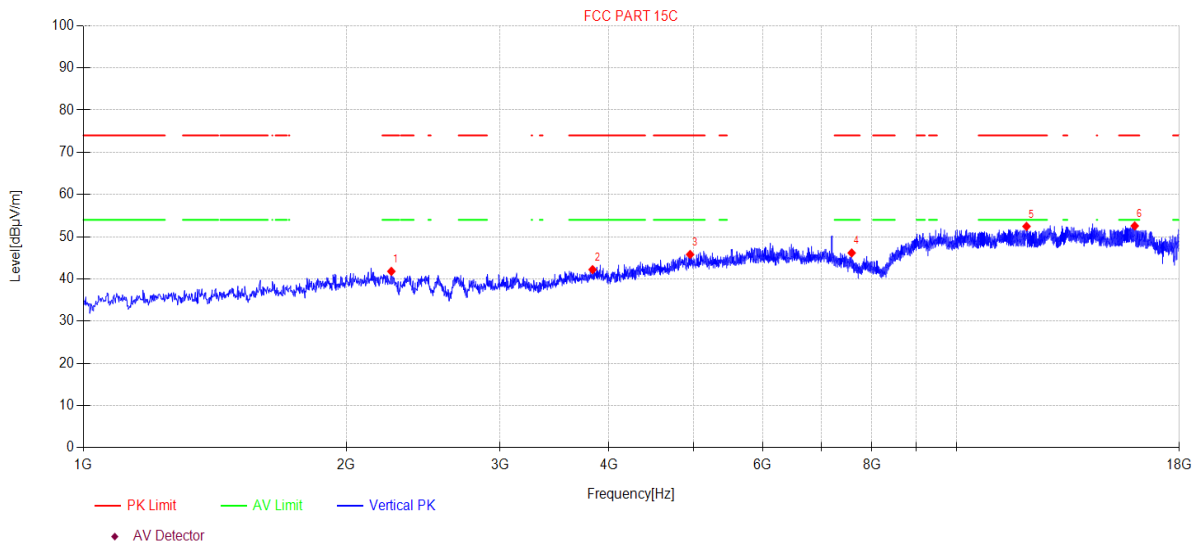
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Memo:

R Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2252.900	46.30	27.27	5.96	-37.73	41.80	74.00	32.20	PK	Vertical
2	3830.500	45.93	30.82	5.81	-40.35	42.21	74.00	31.79	PK	Vertical
3	4954.200	45.00	33.11	7.78	-40.10	45.79	74.00	28.21	PK	Vertical
4	7585.800	44.21	36.47	7.65	-42.16	46.17	74.00	27.83	PK	Vertical
5	12029.600	42.25	39.23	10.54	-39.57	52.45	74.00	21.55	PK	Vertical
6	16002.500	38.05	38.00	15.87	-39.36	52.56	74.00	21.44	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

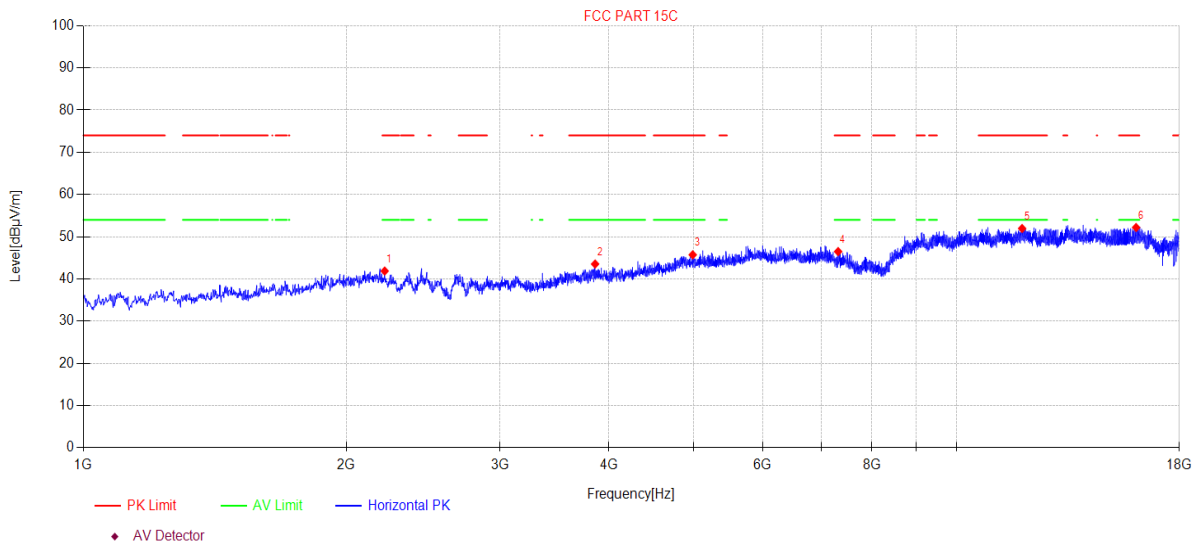
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Memo:

R Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2213.800	45.86	27.66	5.98	-37.62	41.88	74.00	32.12	PK	Horizontal
2	3856.000	47.13	30.94	5.82	-40.36	43.53	74.00	30.47	PK	Horizontal
3	4988.200	44.76	33.18	7.85	-40.08	45.71	74.00	28.29	PK	Horizontal
4	7318.900	43.49	36.86	7.63	-41.50	46.48	74.00	27.52	PK	Horizontal
5	11890.200	42.12	38.90	10.44	-39.51	51.95	74.00	22.05	PK	Horizontal
6	16060.300	38.02	37.94	15.64	-39.41	52.19	74.00	21.81	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

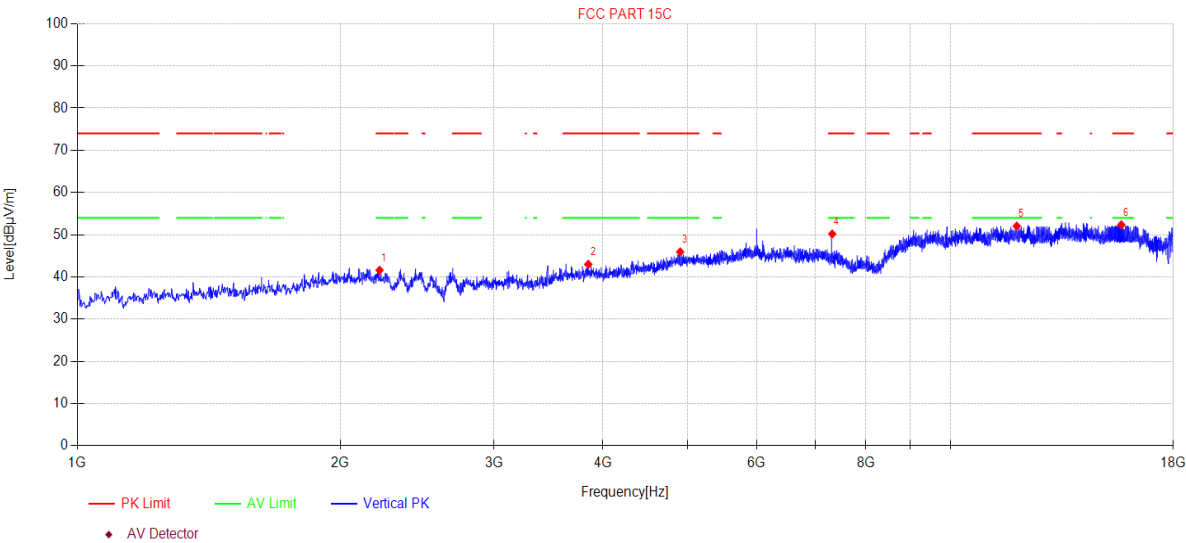
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Memo:

R Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2218.900	45.65	27.61	5.97	-37.63	41.60	74.00	32.40	PK	Vertical
2	3847.500	46.65	30.89	5.82	-40.36	43.00	74.00	31.00	PK	Vertical
3	4903.200	45.37	33.01	7.67	-40.12	45.93	74.00	28.07	PK	Vertical
4	7320.600	47.19	36.86	7.63	-41.50	50.18	74.00	23.82	PK	Vertical
5	11910.600	42.17	38.93	10.46	-39.52	52.04	74.00	21.96	PK	Vertical
6	15689.700	38.55	38.51	14.47	-39.17	52.36	74.00	21.64	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX 2480MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

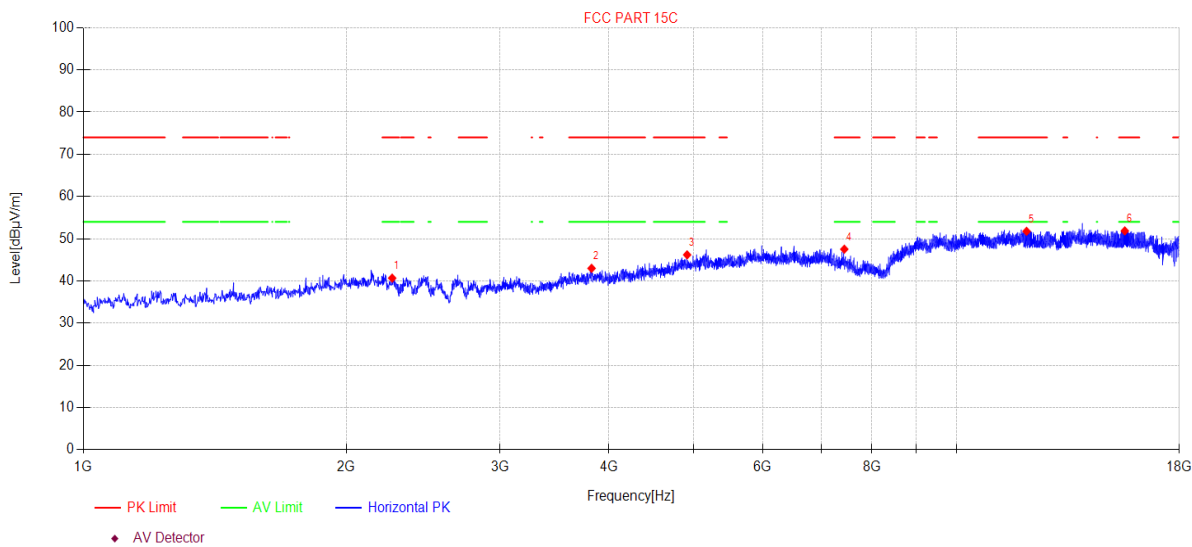
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Memo:

R Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2258.000	45.23	27.22	5.96	-37.74	40.67	74.00	33.33	PK	Horizontal
2	3820.300	46.74	30.78	5.81	-40.34	42.99	74.00	31.01	PK	Horizontal
3	4915.100	45.56	33.03	7.70	-40.11	46.18	74.00	27.82	PK	Horizontal
4	7439.600	45.06	36.62	7.64	-41.80	47.52	74.00	26.48	PK	Horizontal
5	12031.300	41.56	39.23	10.54	-39.57	51.76	74.00	22.24	PK	Horizontal
6	15589.400	38.33	38.62	14.02	-39.11	51.86	74.00	22.14	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX 2480MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

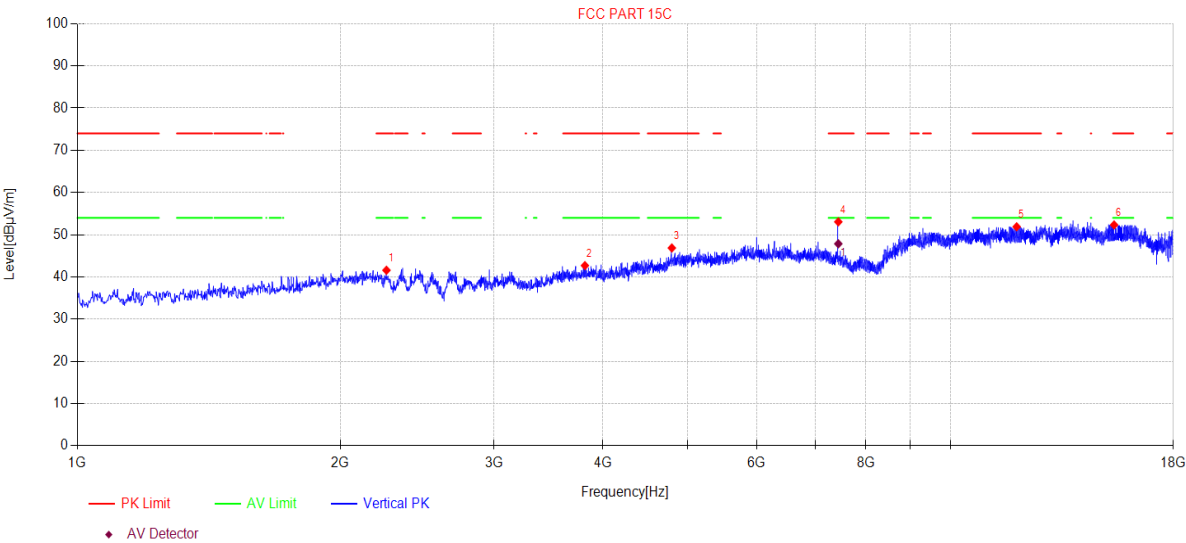
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Memo:

R Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2259.700	46.16	27.20	5.96	-37.74	41.58	74.00	32.42	PK	Vertical
2	3813.500	46.47	30.75	5.81	-40.34	42.69	74.00	31.31	PK	Vertical
3	4796.100	47.09	32.48	7.46	-40.16	46.87	74.00	27.13	PK	Vertical
4	7439.600	50.59	36.62	7.64	-41.80	53.05	74.00	20.95	PK	Vertical
5	11907.200	42.03	38.92	10.46	-39.52	51.89	74.00	22.11	PK	Vertical
6	15397.300	39.15	39.02	13.15	-39.00	52.32	74.00	21.68	PK	Vertical

Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7440.085	45.40	36.62	7.64	-41.80	47.86	54.0	6.14	AV	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE2M TX 2404MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

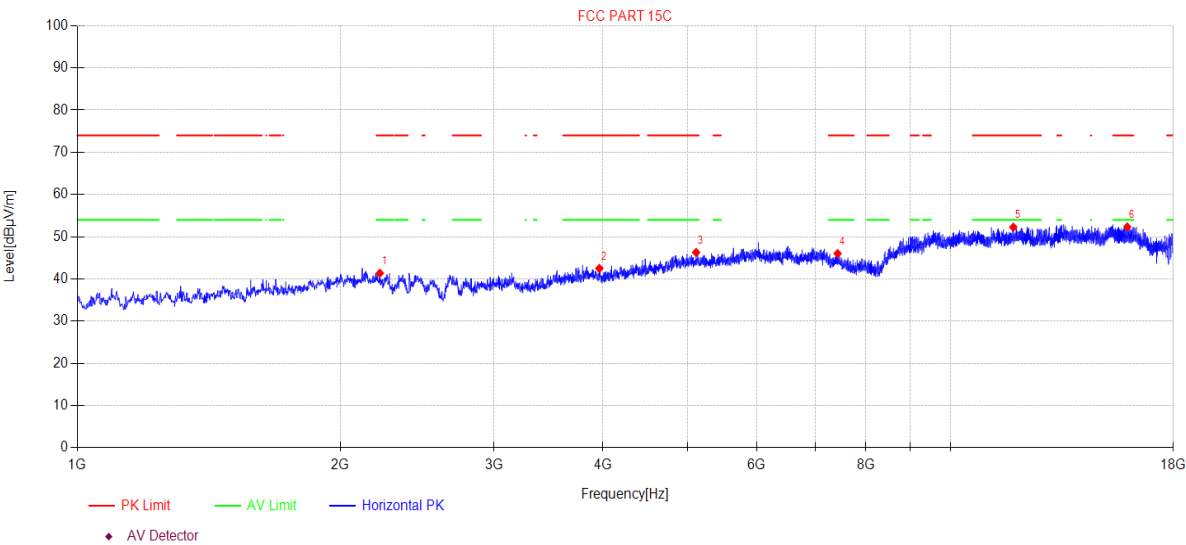
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Memo:

R Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2220.600	45.43	27.59	5.97	-37.63	41.36	74.00	32.64	PK	Horizontal
2	3961.400	46.04	31.05	5.84	-40.43	42.50	74.00	31.50	PK	Horizontal
3	5114.000	44.93	33.40	8.03	-40.07	46.29	74.00	27.71	PK	Horizontal
4	7426.000	43.49	36.65	7.64	-41.77	46.01	74.00	27.99	PK	Horizontal
5	11801.800	42.48	38.90	10.36	-39.47	52.27	74.00	21.73	PK	Horizontal
6	15939.600	37.99	38.06	15.61	-39.32	52.34	74.00	21.66	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE2M TX 2404MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

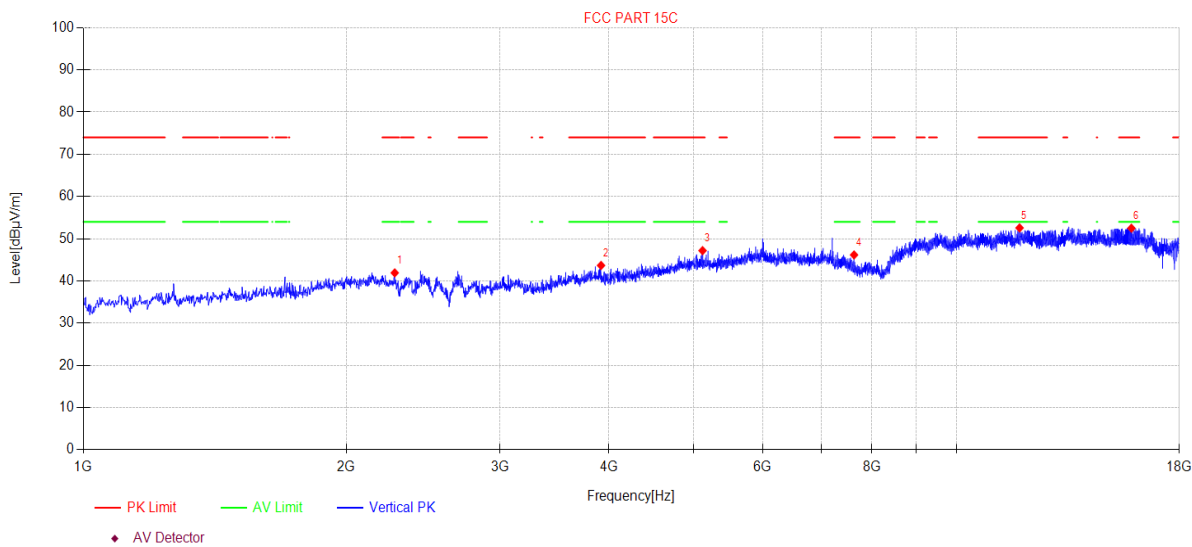
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Memo:

R Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2273.300	46.68	27.07	5.95	-37.78	41.92	74.00	32.08	PK	Vertical
2	3917.200	47.07	31.17	5.83	-40.40	43.67	74.00	30.33	PK	Vertical
3	5119.100	45.80	33.40	8.04	-40.06	47.18	74.00	26.82	PK	Vertical
4	7633.400	44.22	36.57	7.65	-42.28	46.16	74.00	27.84	PK	Vertical
5	11810.300	42.76	38.90	10.37	-39.47	52.56	74.00	21.44	PK	Vertical
6	15863.100	38.34	38.17	15.26	-39.28	52.49	74.00	21.51	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE2M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

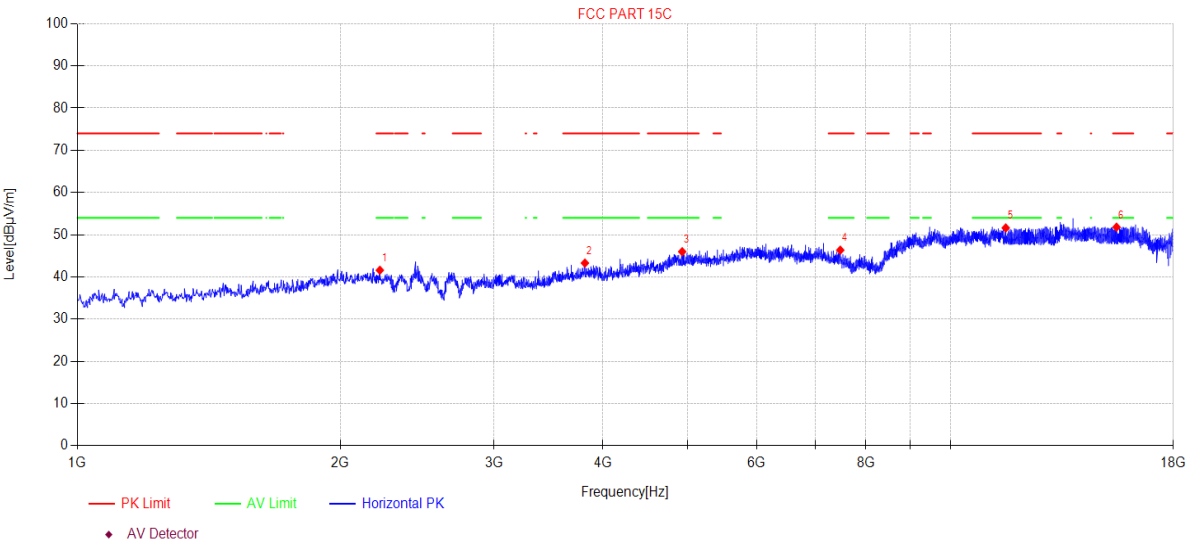
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Memo:

R Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2220.600	45.66	27.59	5.97	-37.63	41.59	74.00	32.41	PK	Horizontal
2	3813.500	47.07	30.75	5.81	-40.34	43.29	74.00	30.71	PK	Horizontal
3	4928.700	45.30	33.06	7.73	-40.11	45.98	74.00	28.02	PK	Horizontal
4	7478.700	44.07	36.54	7.64	-41.90	46.35	74.00	27.65	PK	Horizontal
5	11568.900	41.75	39.06	10.16	-39.36	51.61	74.00	22.39	PK	Horizontal
6	15494.200	38.46	38.81	13.59	-39.06	51.80	74.00	22.20	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE2M TX 2440MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

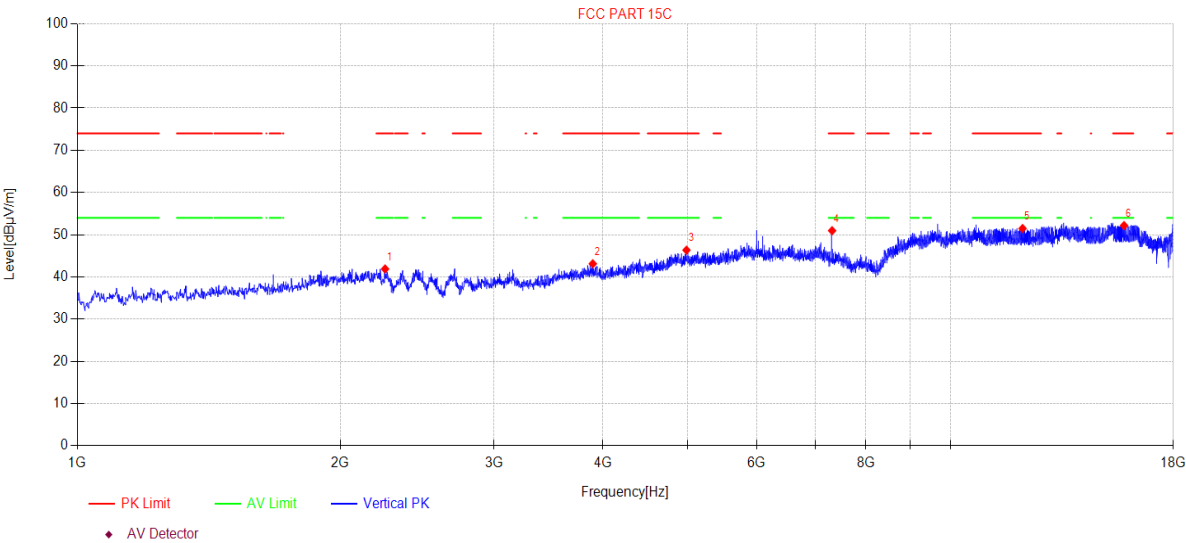
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Memo:

R Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2251.200	46.36	27.29	5.96	-37.72	41.89	74.00	32.11	PK	Vertical
2	3893.400	46.51	31.16	5.83	-40.38	43.12	74.00	30.88	PK	Vertical
3	4984.800	45.43	33.17	7.84	-40.09	46.35	74.00	27.65	PK	Vertical
4	7318.900	47.97	36.86	7.63	-41.50	50.96	74.00	23.04	PK	Vertical
5	12094.200	41.25	39.29	10.54	-39.60	51.48	74.00	22.52	PK	Vertical
6	15807.000	38.11	38.29	15.01	-39.24	52.17	74.00	21.83	PK	Vertical

Note:
1. Level = Reading + Cable loss + Antenna Factor + AMP
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

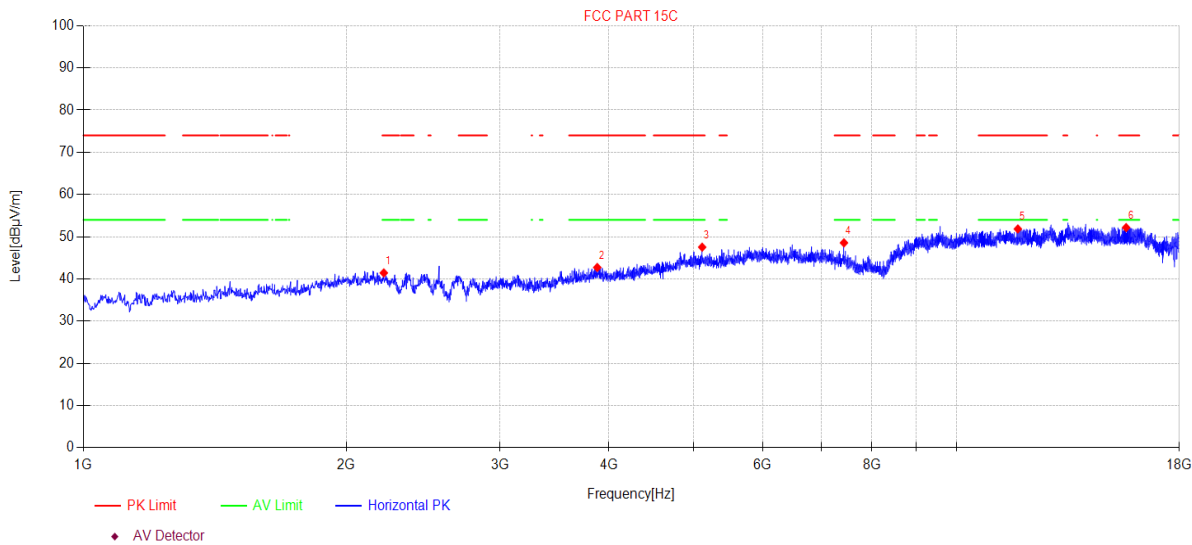
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Memo:

R Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2208.700	45.34	27.71	5.98	-37.60	41.43	74.00	32.57	PK	Horizontal
2	3878.100	46.21	31.07	5.82	-40.38	42.72	74.00	31.28	PK	Horizontal
3	5114.000	46.17	33.40	8.03	-40.07	47.53	74.00	26.47	PK	Horizontal
4	7432.800	46.06	36.63	7.64	-41.78	48.55	74.00	25.45	PK	Horizontal
5	11757.600	42.04	38.94	10.32	-39.45	51.85	74.00	22.15	PK	Horizontal
6	15642.100	38.50	38.56	14.26	-39.15	52.17	74.00	21.83	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-26

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE2M TX 2478MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

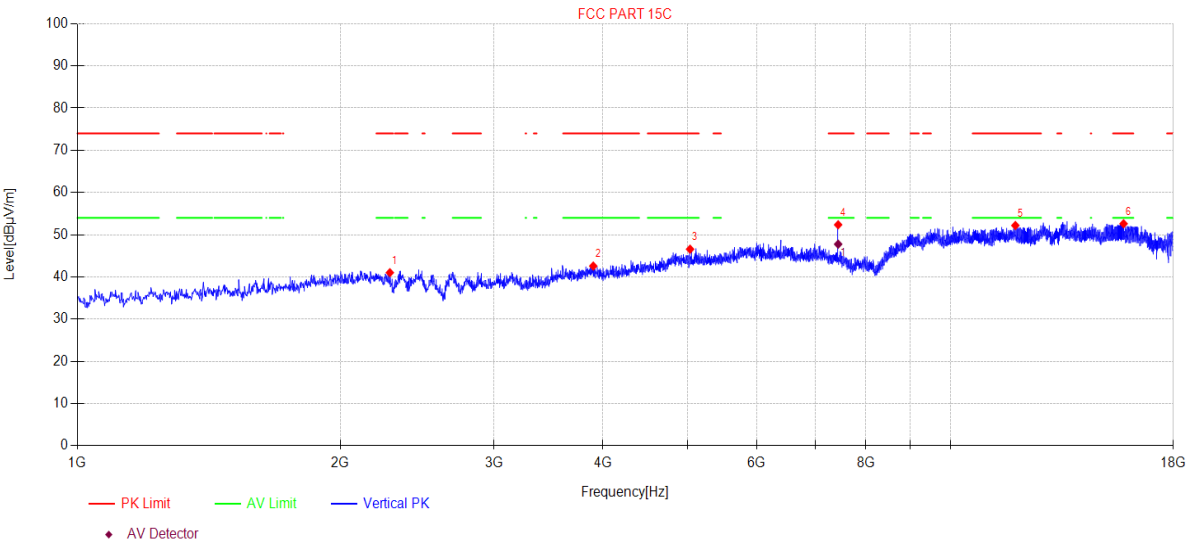
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Memo:

R Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2280.100	45.87	27.00	5.95	-37.80	41.02	74.00	32.98	PK	Vertical
2	3898.500	45.95	31.19	5.83	-40.39	42.58	74.00	31.42	PK	Vertical
3	5032.400	45.48	33.26	7.92	-40.08	46.58	74.00	27.42	PK	Vertical
4	7436.200	49.88	36.63	7.64	-41.79	52.36	74.00	21.64	PK	Vertical
5	11866.400	42.37	38.90	10.42	-39.50	52.19	74.00	21.81	PK	Vertical
6	15786.600	38.59	38.33	14.91	-39.23	52.60	74.00	21.40	PK	Vertical

Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	7436.200	45.28	36.63	7.64	-41.79	47.76	54.0	6.24	AV	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

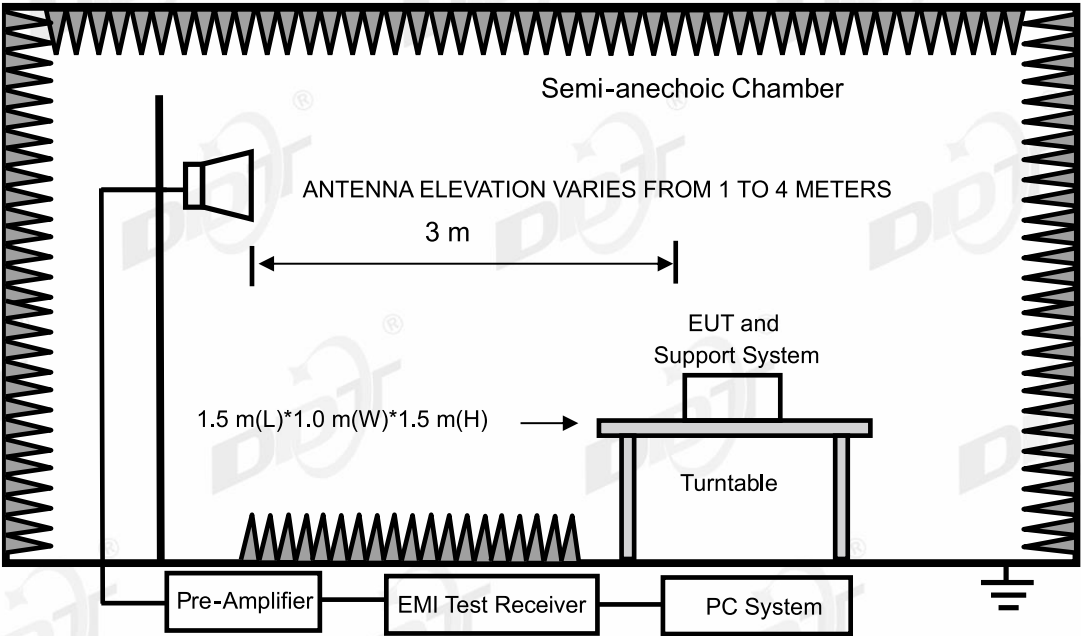
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

13.Band Edge Compliance

13.1. Test equipment

Equipment	Manufacturer	Model No.	Serial No.	Cal Due To
High Pass filter	XIANXINGBO	XBLBQ-GTA67	DDT-ZC02179	2024/05/14
Pre-amplifier	COM-POWER	PAM-840A	DDT-ZC01693	2024/04/26
Trilog Broadband Antenna	Schwarzbeck	VULB 9163	DDT-ZC02050	2024/07/11
Micro-Tronics filters	REBES	BRM50716	DDT-ZC03240	/
Micro-Tronics filters	REBES	BRM50702	DDT-ZC03242	/
Active Loop Antenna	Schwarzbeck	FMZB1519	DDT-ZC00524	2025/09/10
High pass filter	Micro-Tronics	HPM50108	DDT-ZC00560	2024/05/14
RF Cable	N/A	W24.02 HL-562	DDT-ZC04022	2024/04/20
RF Cable	N/A	W13.02 AP1-X2	DDT-ZC04023	2024/04/20
PSA Series Spectrum Analyzer	Agilent	E4447A	DDT-ZC00517	2024/04/22
Hochgewinn-Hornantenne	Schwarzbeck Mess-Elektronik	BBHA 9120 D	DDT-ZC02129	2025/09/17
RF cable	Zhongke Junchuang	JCT26S-NJ-NJ-1.5M	DDT-ZC02762	2024/04/20
Pre-amplifier	COM-POWER	PAM-118A	DDT-ZC01293	2024/07/14
EMI TEST RECEIVER	R&S	ESU26	DDT-ZC01909	2024/04/22
RF cable	Yuhu Technology	JCTB810-NJ-NJ-9M	DDT-ZC02538	2024/04/22
RF cable	Yuhu Technology	ZT26S-SMAJ-SMAJ-1M	DDT-ZC02037	2024/04/22
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	DDT-ZC00506	2024/04/25
High pass filter	Micro-Tronics	HPM50102	DDT-ZC00561	2024/05/14
ELECTRIC AND MAGNETIC FIELD ANALYZER	Narda	EHP-200A	DDT-ZC01401	2024/09/20

13.2. Block diagram of test setup



13.3. Limits

All restriction band should comply with 15.209, other emission should be at least 20 dB below the fundamental.

13.4. Assistant equipment used for test

Assistant equipment	Manufacturer	Model number	Description	other
Laptop	Lenovo	00425-00000-00002-AA135	Fixed frequency computer	N/A

13.5. Test procedure

Same with Radiated Emission except change investigated frequency range.
Remark: All restriction band have been tested, and only the worst case is shown in report.

13.6. Test result

PASS. (See below detailed test result)

13.7. Test data

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-27

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX 2402MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

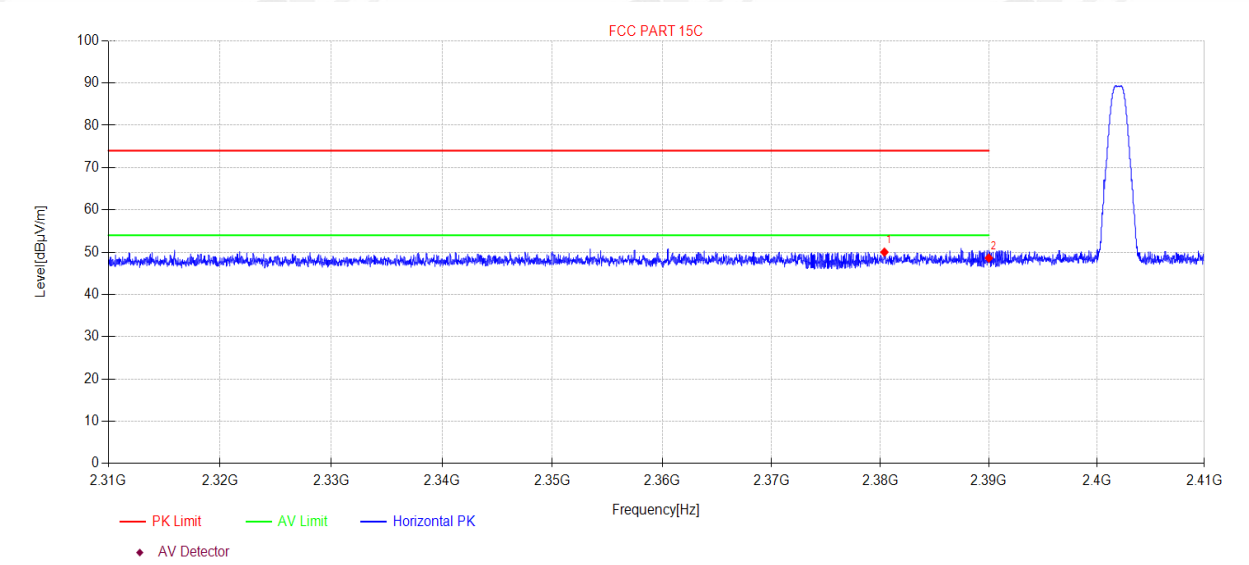
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Memo:

L Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBμV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBμV/m]	Limit [dBμV/m]	Margin [dB]	Detector	Polarity
1	2380.370	18.92	27.22	3.86	0.00	50.00	74.00	24.00	PK	Horizontal
2	2390.000	17.47	27.26	3.87	0.00	48.60	74.00	25.40	PK	Horizontal

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

TR-4-E-009 Radiated Emission Test Result

Test Date:

2024-03-27

Tested By:

Junchang Du

EUT:

Wireless Hearing Aid

Model Number:

JLH1

Test Mode:

BLE1M TX 2402MHz

Power Supply:

Battery

Condition:

Temp:24.2°C;Humi:62.2%

Test Site:

DDT 3# Chamber

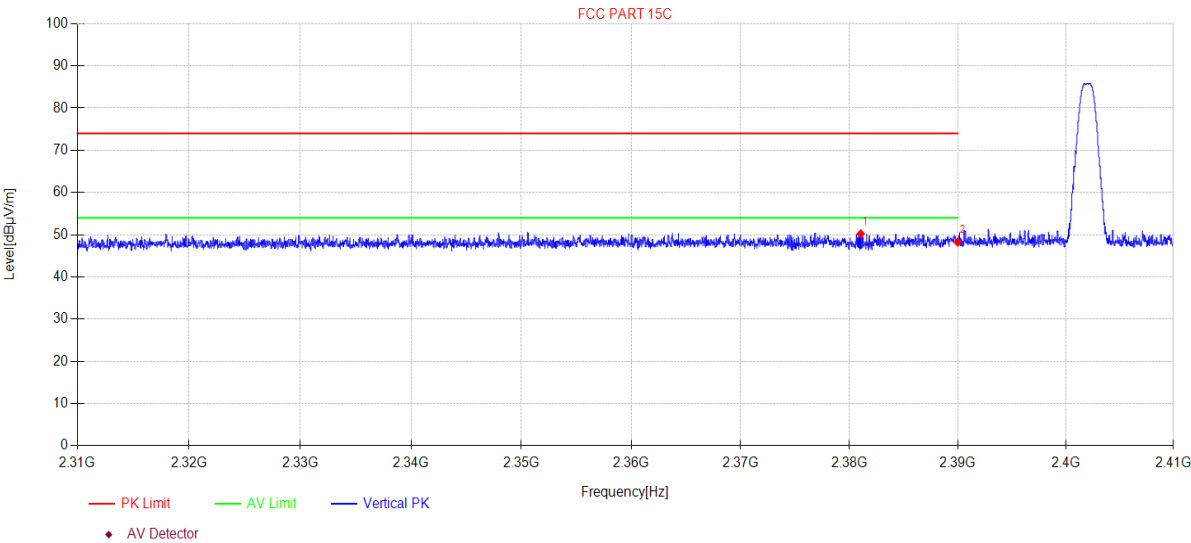
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Memo:

L Sample Number:S23122824-03 Power Setting:0X08

Test Graph



Data List										
N O.	Freq. [MHz]	Reading [dBµV/m]	Antenna Factor [dB]	Cable loss [dB]	AMP [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Detector	Polarity
1	2381.050	19.13	27.22	3.86	0.00	50.21	74.00	23.79	PK	Vertical
2	2390.000	17.11	27.26	3.87	0.00	48.24	74.00	25.76	PK	Vertical

Note:

1. Level = Reading + Cable loss + Antenna Factor + AMP

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.