

Prüfbericht-Nr.: <i>Test report no.:</i>	CN22YLZ5 001	Auftrags-Nr.: <i>Order no.:</i>	168363617	Seite 1 von 23 <i>Page 1 of 23</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2022-03-10	
Auftraggeber: <i>Client:</i>	Shenzhen Eartech Company Ltd. 4-516, Tusincere Science Park, Qingchun Road, Longcheng Street, Longgang, Shenzhen, Guangdong, 518000, P.R.China			
Prüfgegenstand: <i>Test item:</i>	RIC Behind-the-ear Hearing Aid			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	Dion TWS 3, Dion TWS 5, Dion TWS 3 Pro, Dion TWS 5 Pro, Dion TWS, Dion TWS X (Trademark: TUI TUI)			
Auftrags-Inhalt: <i>Order content:</i>	Type test			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.207 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 2.1093			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2022-04-15	Refer to photos document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003243942-001 to 008			
Prüfzeitraum: <i>Testing period:</i>	2022-04-21 - 2022-05-03			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2022-05-30	Ausstellungsdatum: <i>Issue date:</i> 2022-05-31			
Stellung / Position	Assistant Project Manager	Stellung / Position	Department Manager	
Sonstiges / Other:	FCC ID: 2A5WV-DIONTWS			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>			
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

V05

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 99% BANDWIDTH

RESULT: Pass

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

RESULT: Pass

5.1.5 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.6 20dB BANDWIDTH

RESULT: Pass

5.1.7 CARRIER FREQUENCY SEPARATION

RESULT: Pass

5.1.8 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.9 TIME OF OCCUPANCY

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

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

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results of Conducted Testing

Appendix C: Test Results of Radiated Testing

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China

FCC Registration No.: 694916

IC Registration No.: 25069

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

TÜV Rheinland (Shenzhen) Co., Ltd.

Radio Spectrum Testing				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	28.09.2022
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	28.09.2022
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	28.09.2022
DC Power Supply	Keysight	E3642A	MY61276100	28.09.2022
Wireless Connectivity Tester	R&S	CMW270	102505	28.09.2022
Power Control Unit	Tonscend	JS0806-4ADC	N/A	28.09.2022
Automation Control Unit	Tonscend	JS0806-2	21C8060396	28.09.2022
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A
\	Keysight	N9010B	MY60241175	28.09.2022
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	28.09.2022
Unwanted Emission Testing				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
EMI Test Receiver	R&S	ESR 7	102021	10.08.2022
Signal Analyzer	R&S	FSV 40	101439	09.08.2022
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	09.08.2022
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	09.08.2022
Amplifier	R&S	SCU-18F	180070	09.08.2022
Amplifier	R&S	SCU40A	100475	09.08.2022
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	08.08.2022
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	08.08.2022
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	08.08.2022
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	13.09.2022

Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	22.06.2024

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

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

Item		Extended Uncertainty
Conducted Emission		± 2.74 dB
Radiated Emission (30-1000MHz)	Field strength (dB μ V/m)	4.27dB
Radiated Emission (above 1000MHz)	Field strength (dB μ V/m)	4.46dB
Radio Spectrum		± 1.5 dB

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUTs are a RIC Behind-the-ear Hearing Aid and composed of charging box, left earbud and right earbud, the left & right earbuds supports Bluetooth (BDR&EDR) technology.

According to the declaration of applicant, the PCB layout and schematic diagram of left & right earplugs are identical.

All models are identical except the model number and audio output.

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

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	RIC Behind-the-ear Hearing Aid
Type Designation	Dion TWS 3, Dion TWS 5, Dion TWS 3 Pro, Dion TWS 5 Pro, Dion TWS, Dion TWS X
Trade Mark	TUI TUI
FCC ID	2A5WV-DIONTWS
Operating Voltage	DC 5V via external AC/DC Adapter DC 3.7V (supplied by internal battery)
Operating Temperature range	-10 to +40 °C
Technical Specification of Bluetooth	
Technical Specification	Value
Operating Frequency	2402 - 2480 MHz
Type of Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Channel Number	BDR & EDR mode:79 channels
Channel Separation	BDR & EDR mode:1MHz
Antenna Type	Integral Antenna
Max. Antenna Gain	1.3 dBi

Note: The Bluetooth function can't work while charging.

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Table 3: RF Channel and Frequency of Bluetooth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	20	2422.00	40	2442.00	60	2462.00
01	2403.00	21	2423.00	41	2443.00	61	2463.00
02	2404.00	22	2424.00	42	2444.00	62	2464.00
03	2405.00	23	2425.00	43	2445.00	63	2465.00
04	2406.00	24	2426.00	44	2446.00	64	2466.00
05	2407.00	25	2427.00	45	2447.00	65	2467.00
06	2408.00	26	2428.00	46	2448.00	66	2468.00
07	2409.00	27	2429.00	47	2449.00	67	2469.00
08	2410.00	28	2430.00	48	2450.00	68	2470.00
09	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00	--	--

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Bluetooth transmitting mode (BDR & EDR mode)
 - a) Low Channel
 - b) Middle Channel
 - c) High Channel
- B. On, Transmitting on Hopping channel
- C. On, Bluetooth connecting mode
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- | | |
|-------------------------|----------------------------------|
| - Application Form | - FCC/IC Label and Location Info |
| - Block Diagram | - Photo Document |
| - Schematics | - User Manual |
| - Technical Description | |

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all test were applied on model Dion TWS.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	Rating
Notebook	Lenovo	ThinkPad X260	N/A

4.4 Countermeasures to Achieve EMC Compliance

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

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

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

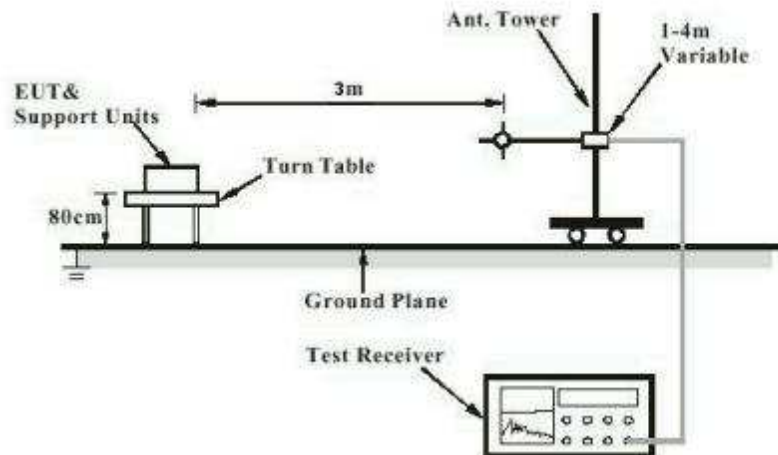


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

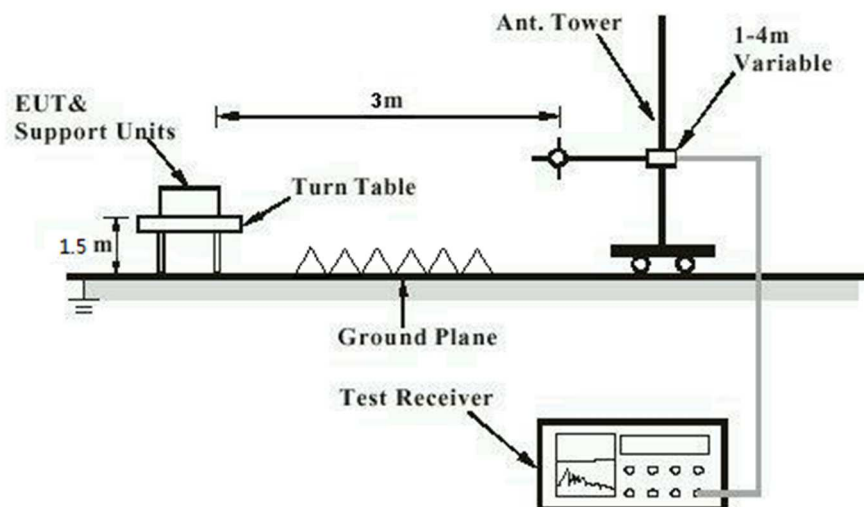
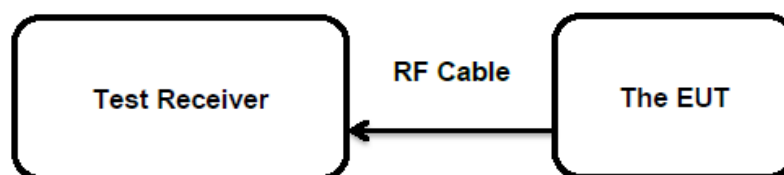


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203

According to the manufacturer declared, the EUT has an integral antenna, the directional gain of antenna is 1.3 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Conducted Output Power

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(1)
Basic standard : ANSI C63.10: 2013
Limits : FHSS<0.125W(Maximum peak conducted output power)
Kind of test site : < 4 W (e.i.r.p.)
Shielded Room

Test Setup

Date of testing : 2022-04-21
Input voltage : DC 3.7V
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : 25 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

Table 5: Test Result of Maximum Conducted Output Power

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Measured Average Output Power		Limit (W)
		(dBm)	(W)	(dBm)	(W)	
BDR	2402	-2.50	0.00056	-2.75	0.00053	< 0.125
	2441	-2.13	0.00061	-2.57	0.00055	
	2480	-2.75	0.00053	-3.09	0.00049	
EDR	2402	-0.20	0.00095	-3.40	0.00046	< 0.125
	2441	0.12	0.00103	-2.79	0.00053	
	2480	-0.05	0.00099	-3.14	0.00049	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 1.42 dBm less than 4W(36dBm).

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5.1.3 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-04-21
Input voltage : DC 3.7V
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : 25 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

Table 6: Test Result of 99% Bandwidth

Test Mode	Channel Frequency (MHz)	99% Bandwidth (MHz)	Limit (MHz)
BDR	2402	0.86947	/
	2441	0.87012	
	2480	0.86561	
EDR	2402	1.1999	/
	2441	1.2007	
	2480	1.2051	

For the measurement records, refer to the appendix B

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5.1.4 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d)
Basic standard	: ANSI C63.10: 2013
Limits	: 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2022-04-21
Input voltage	: DC 3.7V
Operation mode	: A.1
Test channel	: Low / Middle / High
Ambient temperature	: 25 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test plot, and compliance is achieved as well.

For the measurement records, refer to the appendix B.

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5.1.5 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.247(d) & FCC Part 15.205
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d)
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2022-04-21
Input voltage	: DC 3.7V
Operation mode	: A.1
Test channel	: Low / Middle / High
Ambient temperature	: 22.5 °C
Relative humidity	: 56 %
Atmospheric pressure	: 101 kPa

Remark:

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For the measurement records, refer to the appendix C.

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5.1.6 20dB Bandwidth

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(a)(1)
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-04-21
Input voltage : DC 3.7V
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : 25 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

Table 7: Test Result of 20dB Bandwidth

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (MHz)	2/3 of 20dB Bandwidth (MHz)	Limit (MHz)
BDR	2402	0.948	0.632	/
	2441	0.936	0.624	
	2480	0.936	0.624	
EDR	2402	1.332	0.888	/
	2441	1.335	0.890	
	2480	1.323	0.882	

For the measurement records, refer to the appendix B.

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5.1.7 Carrier Frequency Separation

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(a)(1)
Basic standard : ANSI C63.10: 2013
Limits : $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater
Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-04-21
Input voltage : DC 3.7V
Operation mode : B
Test channel : Low / Middle / High
Ambient temperature : $25\text{ }^{\circ}\text{C}$
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

Table 8: Test Result of Carrier Frequency Separation

TestMode	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Hop	0.99	$\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth	PASS
3DH5	Hop	1.11		PASS

Note:

The limit is maximum $2/3$ of the 20 dB bandwidth: 890 kHz .

For the measurement records, refer to the appendix B.

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5.1.8 Number of Hopping Frequency

RESULT:

Pass

Test Specification

Test standard : FCC part 15.247(a)(1)(iii)
Basic standard : ANSI C63.10: 2013
Limits : ≥ 15 non-overlapping channels
Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-04-21
Input voltage : DC 3.7V
Operation mode : B
Ambient temperature : 25 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

Table 9: Test Result of Number of Hopping Frequency

TestMode	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Hop	79	≥ 15	PASS
3DH5	Hop	79	≥ 15	PASS

For the measurement records, refer to the appendix B.

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5.1.9 Time of Occupancy

RESULT:

Pass

Test Specification

Test standard : FCC part 15.247(a)(1)(iii)
Basic standard : ANSI C63.10: 2013
Limits : < 0.4s
Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-04-21
Input voltage : DC 3.7V
Operation mode : B
Test channel : Low / Middle / High
Ambient temperature : 25 °C
Relative humidity : 56 %
Atmospheric pressure : 101 kPa

Table 10: Test Result of Time of Occupancy

Test Mode	Channel	Data Packet	Pulse width (ms)	Total Hops [Num]	Measured Dwell time(s)	Limit (s)
BDR	2441	DH1	0.38	319	0.122	< 0.4s
		DH3	1.64	159	0.261	
		DH5	2.89	107	0.309	
EDR	2441	3DH1	0.40	319	0.126	< 0.4s
		3DH3	1.65	159	0.262	
		3DH5	2.90	106	0.307	

Note:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

Period = 0.4 x 79 (channel) = 31.6 seconds

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

Test standard : CFR47 FCC Part 2.1093
FCC KDB Publication 447498 v06
Limit : CFR47 FCC Part 1.1310

RF Exposure Compliance Requirement for FCC

The measured maximum conducted output power of the EUT is 0.12dBm $\approx$ 1.03mW, which is far below the SAR exclusion threshold level 10mW (SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and $\leq$ 50 mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v06.

7 Photographs of the Test Set-Up

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

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Appendix B

Test Results of Conducted Testing

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Appendix B.1: Test Plots of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.86947	2401.526	2402.396	---	---
		2441	0.87012	2440.526	2441.396	---	---
		2480	0.86561	2479.531	2480.397	---	---
3DH5	Ant1	2402	1.1999	2401.360	2402.560	---	---
		2441	1.2007	2440.359	2441.560	---	---
		2480	1.2051	2479.356	2480.561	---	---

DH5 Ant1 2402



DH5 Ant1 2441



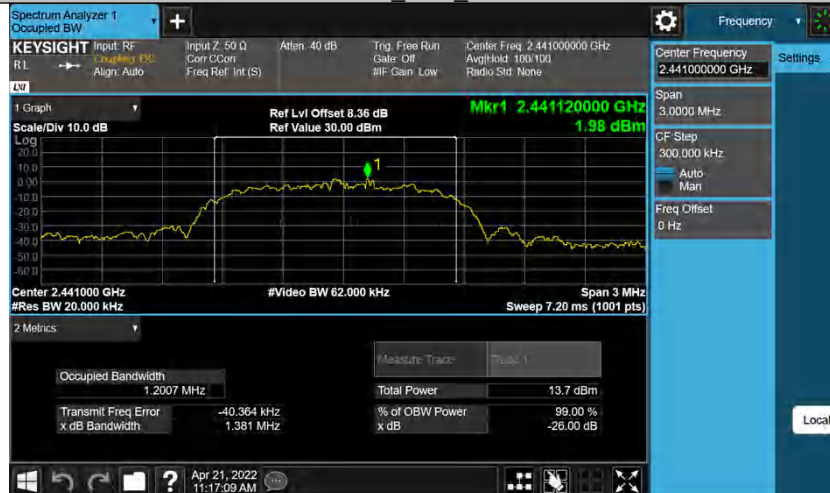
DH5 Ant1 2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix B.2: Test Plots of 20dB Bandwidth

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.499	2402.447	---	---
		2441	0.936	2440.502	2441.438	---	---
		2480	0.936	2479.505	2480.441	---	---
3DH5	Ant1	2402	1.332	2401.295	2402.627	---	---
		2441	1.335	2440.295	2441.630	---	---
		2480	1.323	2479.298	2480.621	---	---

DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



Appendix B.3: Test Plots of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

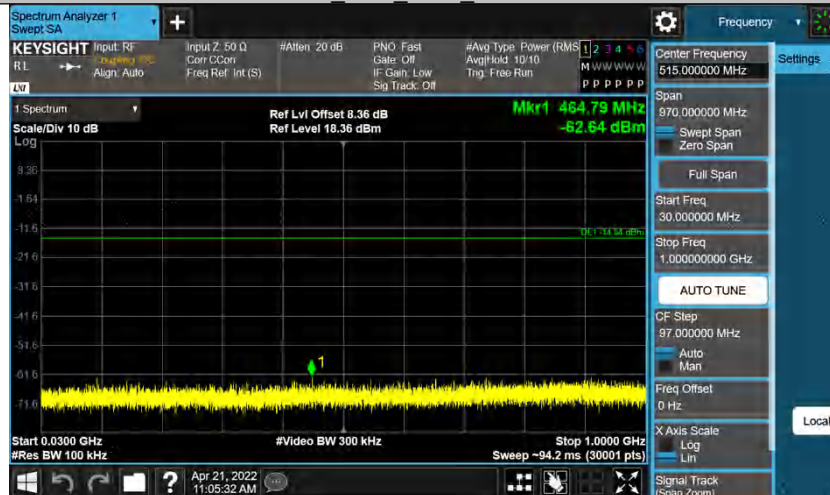
Conducted Spurious Emission

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	5.16	5.16	---	PASS
			30~1000	5.16	-62.64	≤-14.84	PASS
			1000~26500	5.16	-40.75	≤-14.84	PASS
		2441	Reference	6.50	6.50	---	PASS
			30~1000	6.50	-61.63	≤-13.5	PASS
			1000~26500	6.50	-40.64	≤-13.5	PASS
		2480	Reference	5.55	5.55	---	PASS
			30~1000	5.55	-61.84	≤-14.45	PASS
			1000~26500	5.55	-40.86	≤-14.45	PASS
3DH5	Ant1	2402	Reference	4.18	4.18	---	PASS
			30~1000	4.18	-61.67	≤-15.82	PASS
			1000~26500	4.18	-43.65	≤-15.82	PASS
		2441	Reference	4.33	4.33	---	PASS
			30~1000	4.33	-62.17	≤-15.67	PASS
			1000~26500	4.33	-39.54	≤-15.67	PASS
		2480	Reference	4.26	4.26	---	PASS
			30~1000	4.26	-62.75	≤-15.74	PASS
			1000~26500	4.26	-41.81	≤-15.74	PASS

DH5 Ant1 2402 0~Reference



DH5 Ant1 2402 30~1000



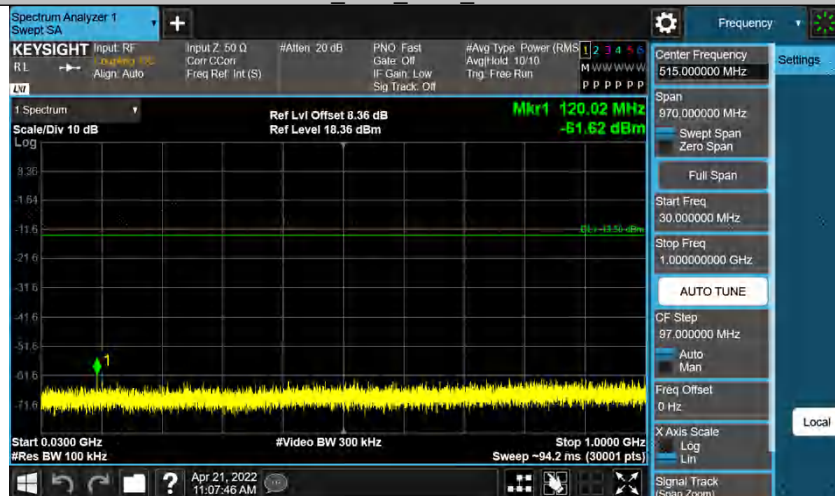
DH5_Ant1_2402_1000~26500



DH5_Ant1_2441_0~Reference



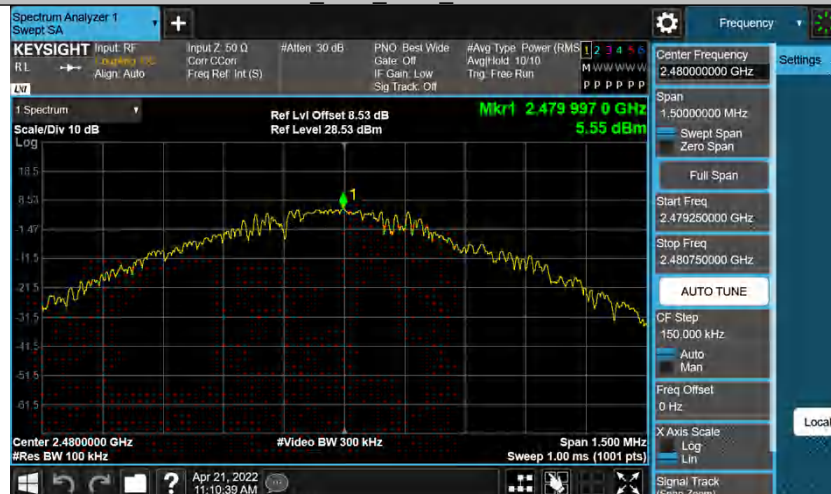
DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



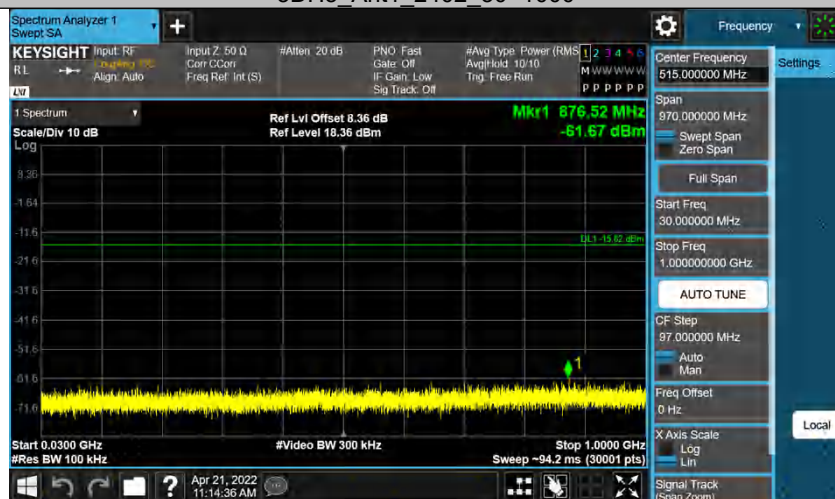
DH5_Ant1_2480_1000~26500



3DH5_Ant1_2402_0~Reference



3DH5_Ant1_2402_30~1000



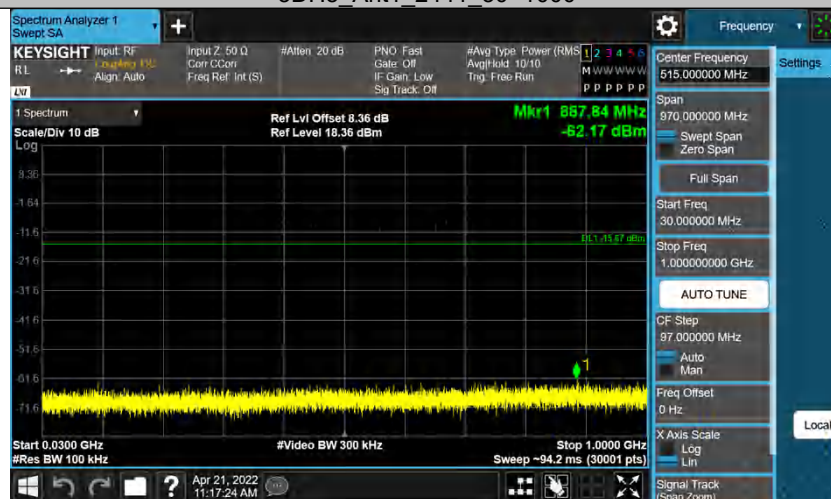
3DH5_Ant1_2402_1000~26500

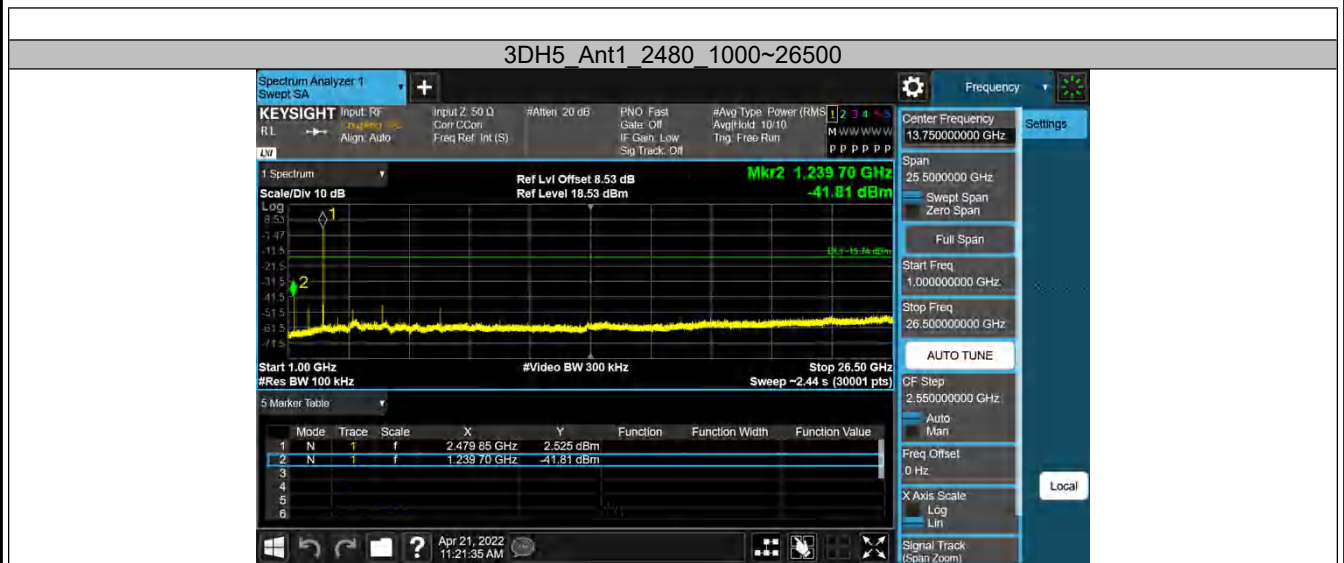


3DH5_Ant1_2441_0~Reference



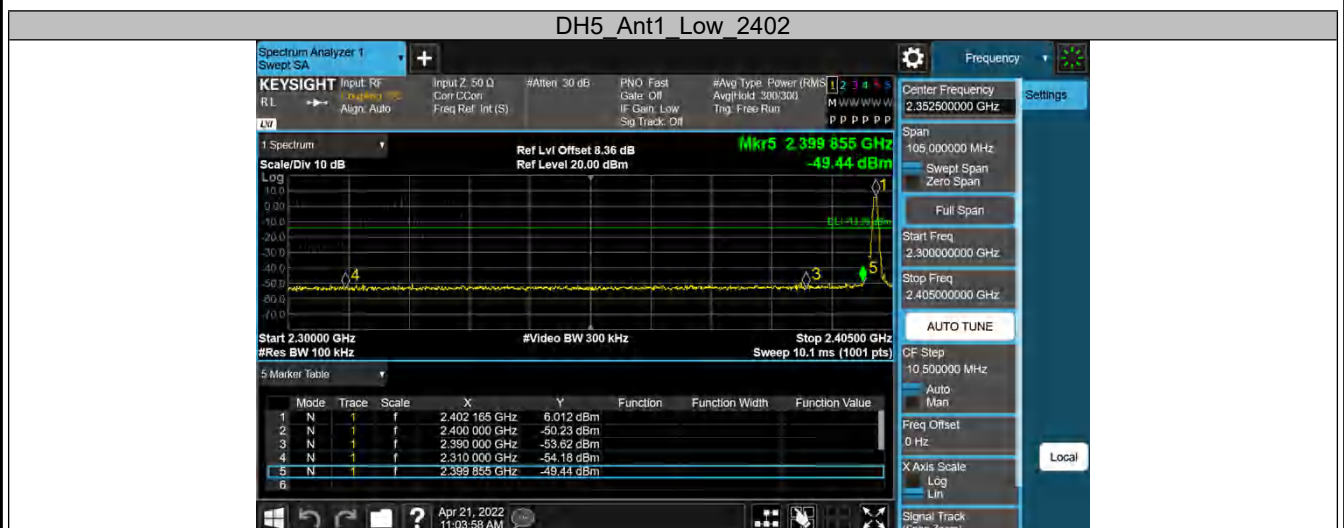
3DH5_Ant1_2441_30~1000



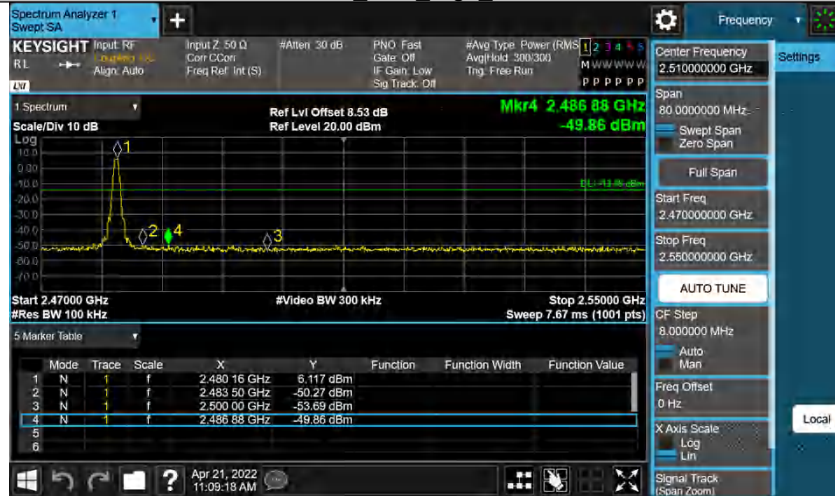


Band edge

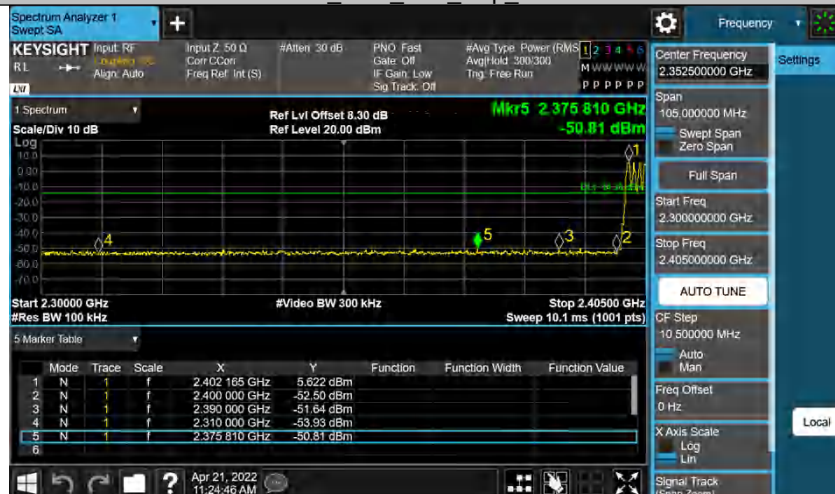
TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	6.01	-49.44	≤-13.99	PASS
		High	2480	6.12	-49.86	≤-13.88	PASS
		Low	Hop_2402	5.62	-50.81	≤-14.38	PASS
		High	Hop_2480	6.09	-50.34	≤-13.91	PASS
3DH5	Ant1	Low	2402	5.99	-46.79	≤-14.01	PASS
		High	2480	6.24	-48.38	≤-13.76	PASS
		Low	Hop_2402	5.67	-50.45	≤-14.34	PASS
		High	Hop_2480	6.57	-50.46	≤-13.43	PASS



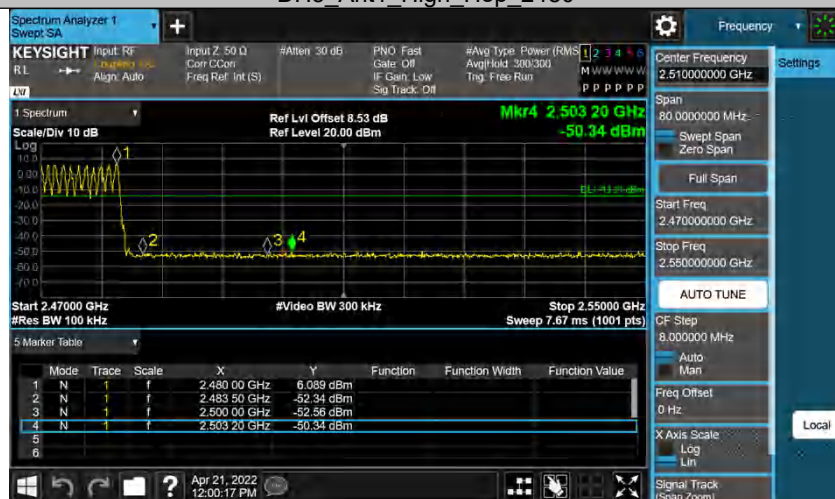
DH5_Ant1_High_2480



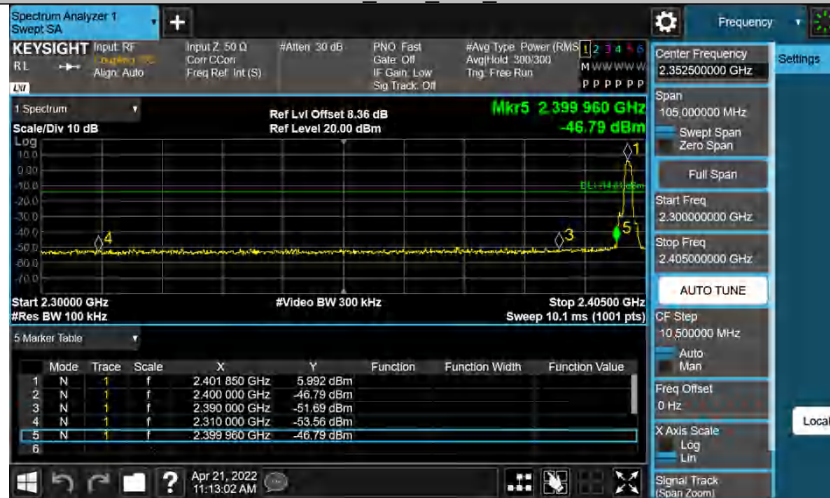
DH5_Ant1_Low_Hop_2402



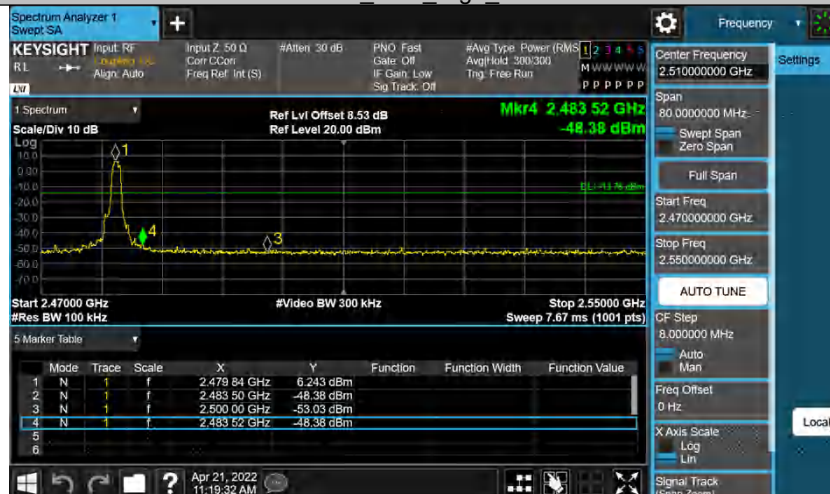
DH5_Ant1_High_Hop_2480



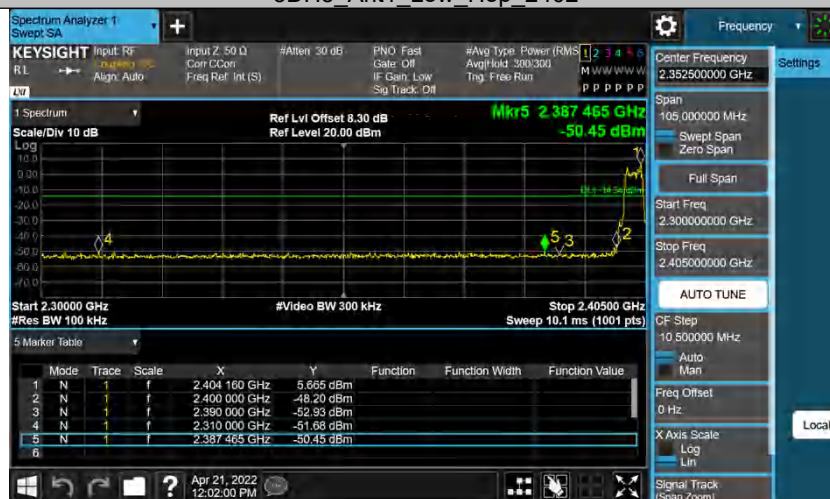
3DH5_Ant1_Low_2402



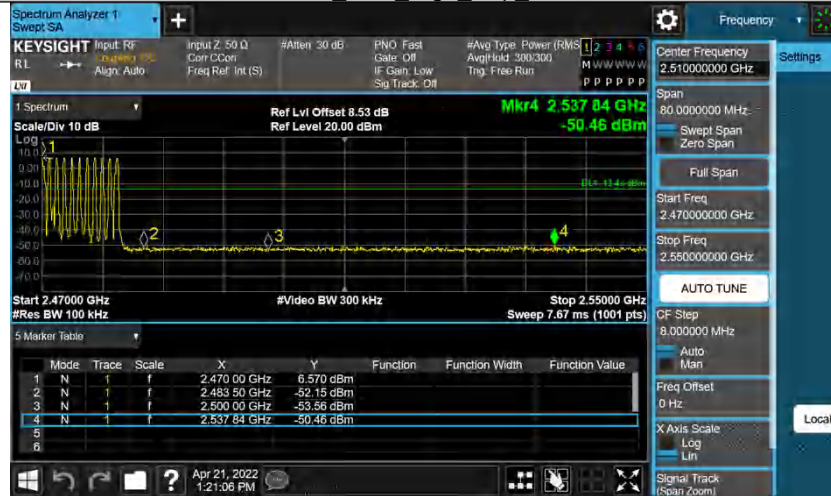
3DH5_Ant1_High_2480



3DH5_Ant1_Low_Hop_2402

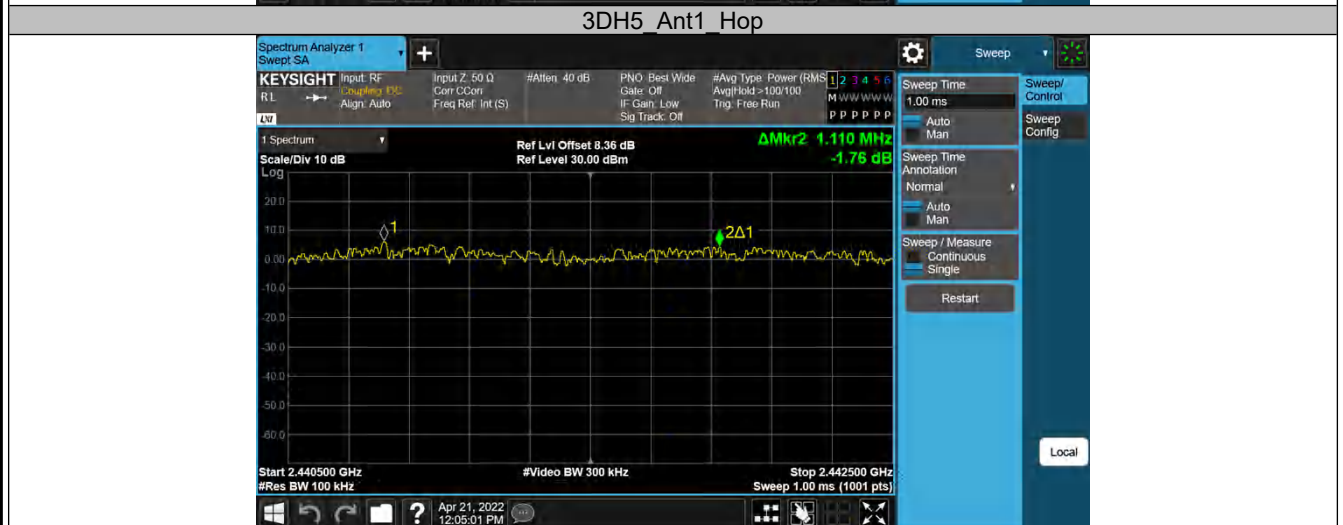


3DH5 Ant1 High Hop_2480



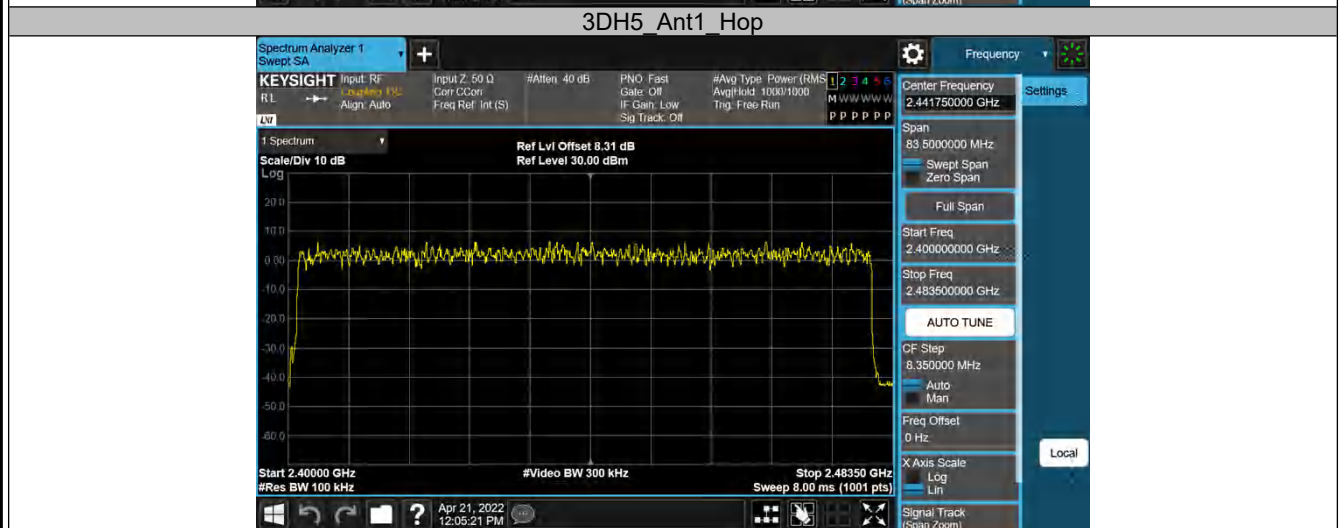
Appendix B.4: Test Plots of Carrier Frequency Separation

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	0.99	≥0.948	PASS
3DH5	Ant1	Hop	1.11	≥0.890	PASS



Appendix B.5: Test Plots of Number of Hopping Frequency

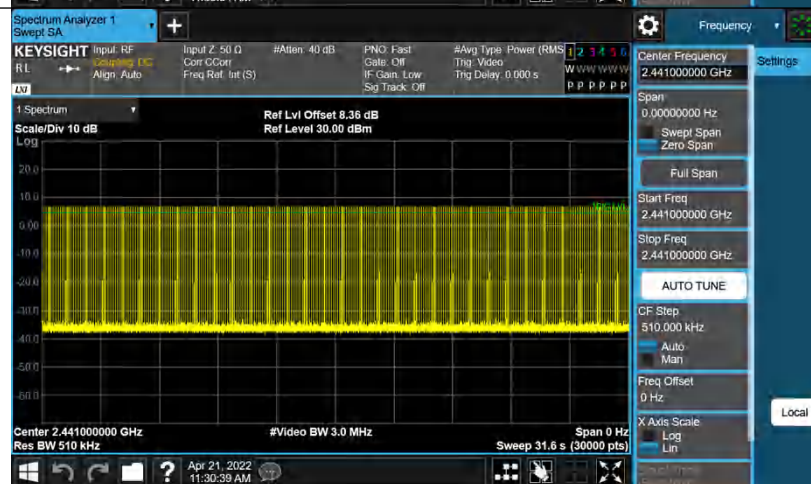
TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥ 15	PASS
3DH5	Ant1	Hop	79	≥ 15	PASS



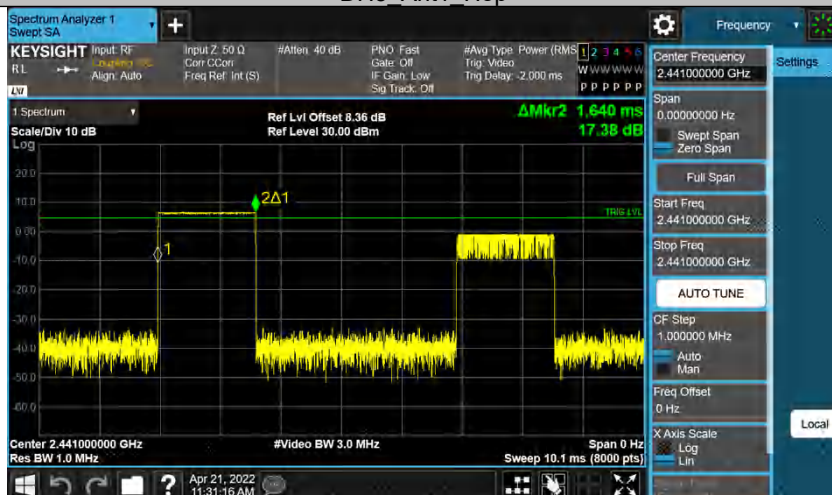
Appendix B.6: Test Plots of Time of Occupancy

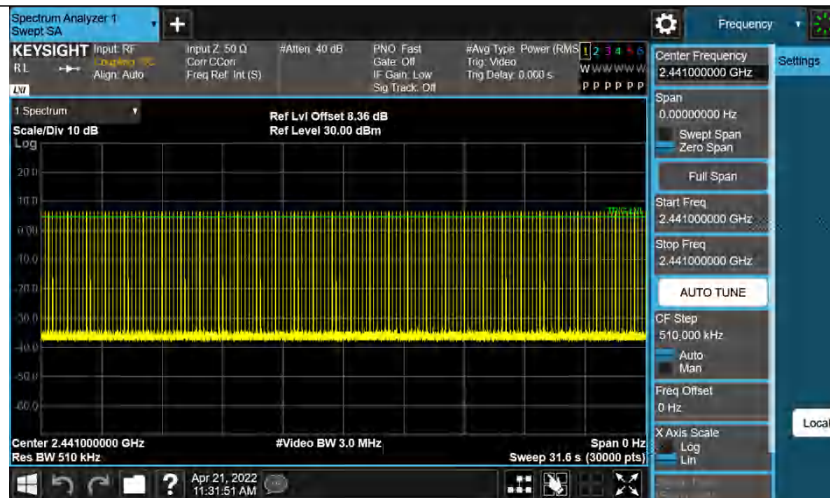
TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	319	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.64	159	0.261	≤0.4	PASS
DH5	Ant1	Hop	2.89	107	0.309	≤0.4	PASS
3DH1	Ant1	Hop	0.40	319	0.126	≤0.4	PASS
3DH3	Ant1	Hop	1.65	159	0.262	≤0.4	PASS
3DH5	Ant1	Hop	2.90	106	0.307	≤0.4	PASS

DH1 Ant1 Hop

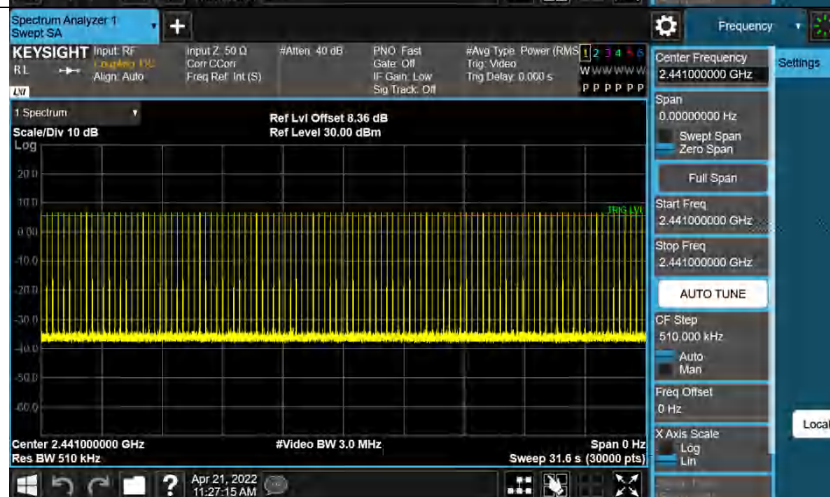


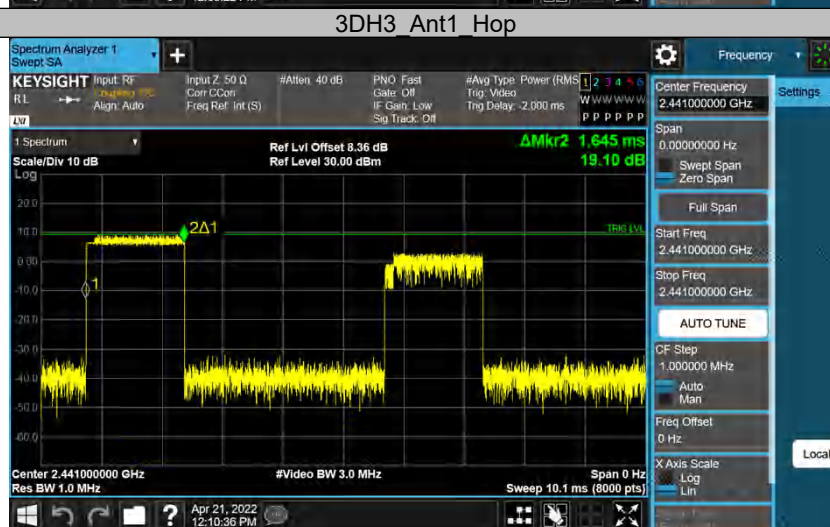
DH3 Ant1 Hop

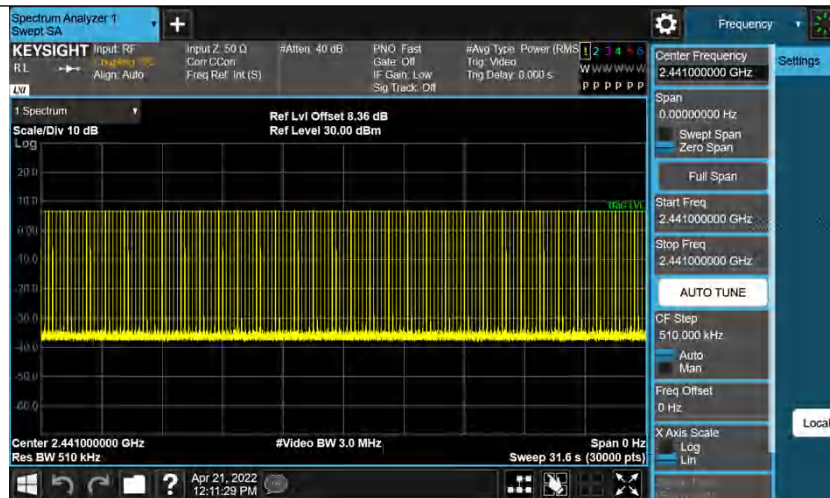




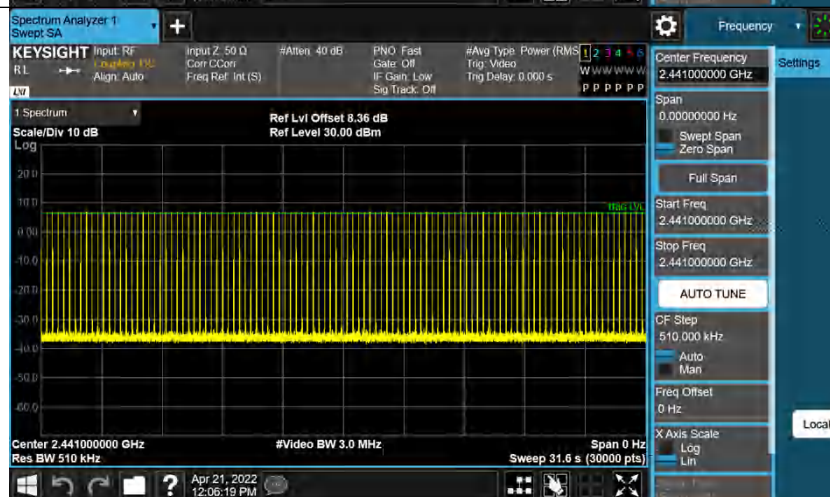
DH5_Ant1_Hop







3DH5_Ant1_Hop



Appendix C

Test Results of Radiated Emission

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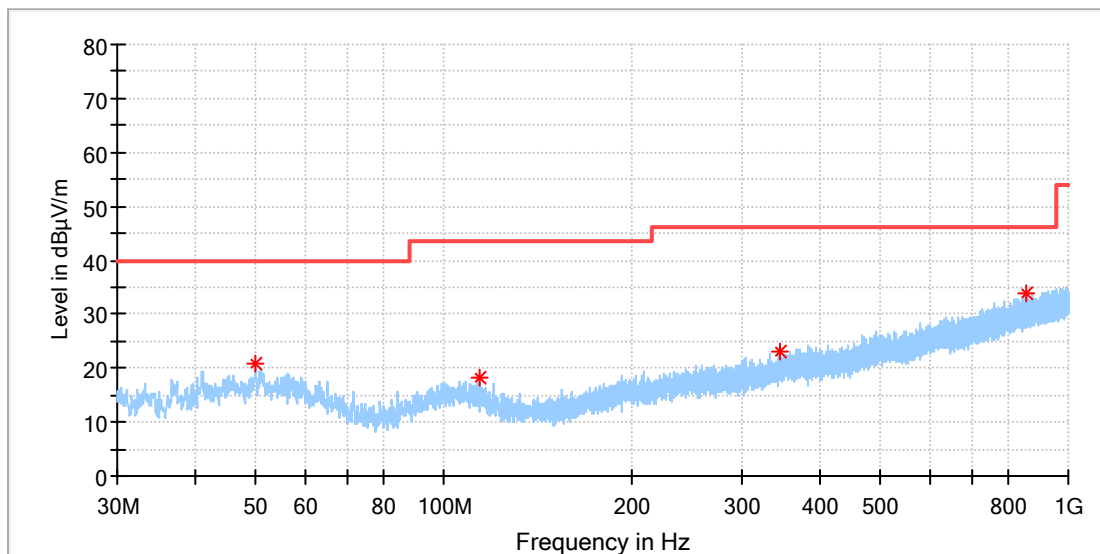
Note: The radiated spurious emission were measured from 9kHz to 25GHz, the measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix C.1: Test Plots of Radiated Spurious Emission

BDR mode, 30MHz - 1GHz

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

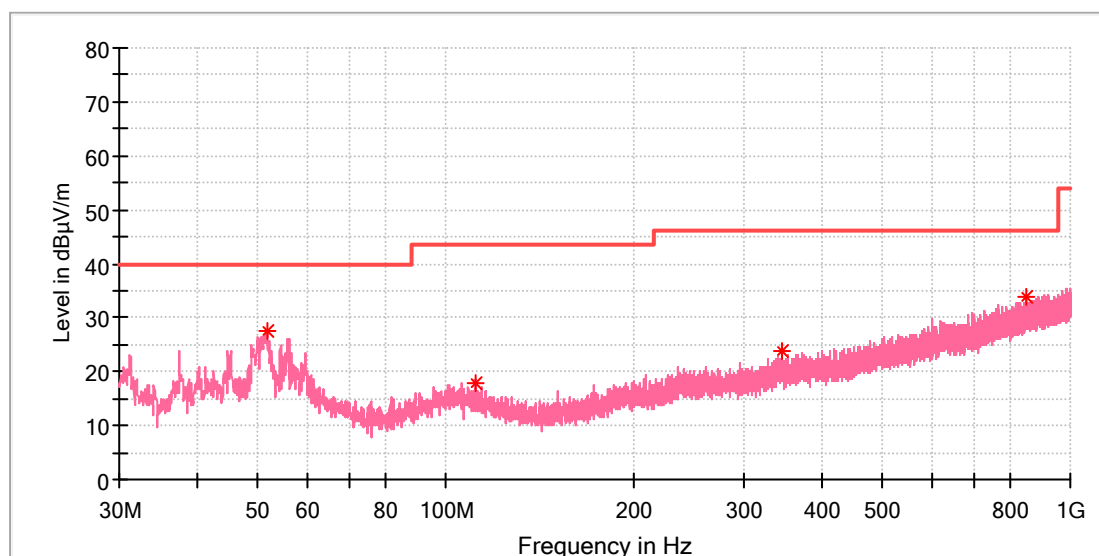


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.982000	20.73	40.00	19.27	100.0	H	301.0	-18.3
114.390000	18.40	43.50	25.10	100.0	H	11.0	-19.7
345.298500	23.23	46.00	22.77	100.0	H	96.0	-14.8
856.343000	33.71	46.00	12.29	100.0	H	180.0	-5.4

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

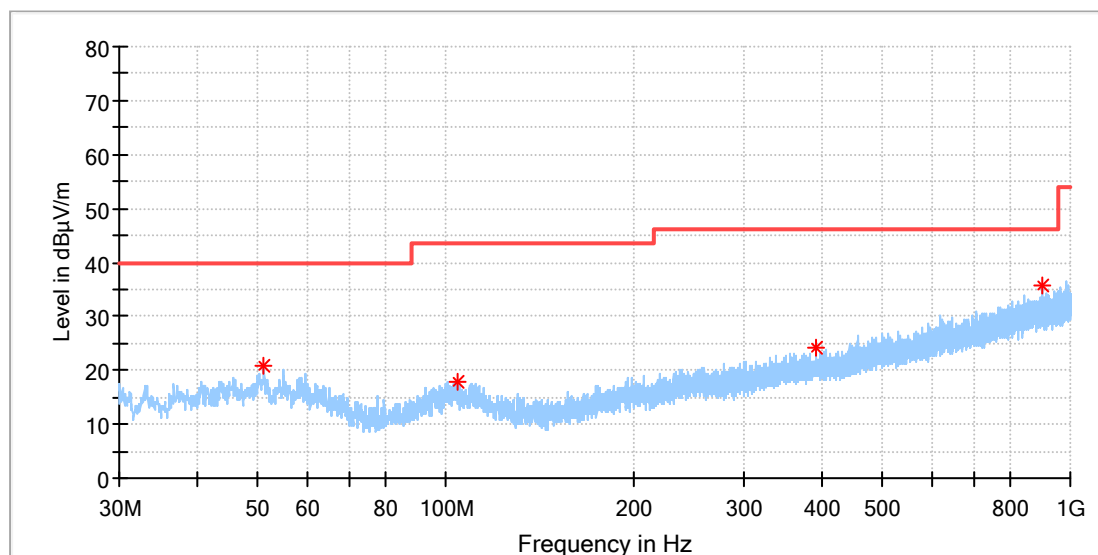


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.825000	27.42	40.00	12.58	100.0	V	166.0	-18.4
111.625500	18.03	43.50	25.47	100.0	V	256.0	-19.3
344.668000	23.69	46.00	22.31	100.0	V	21.0	-14.8
851.638500	33.77	46.00	12.23	100.0	V	172.0	-5.5

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

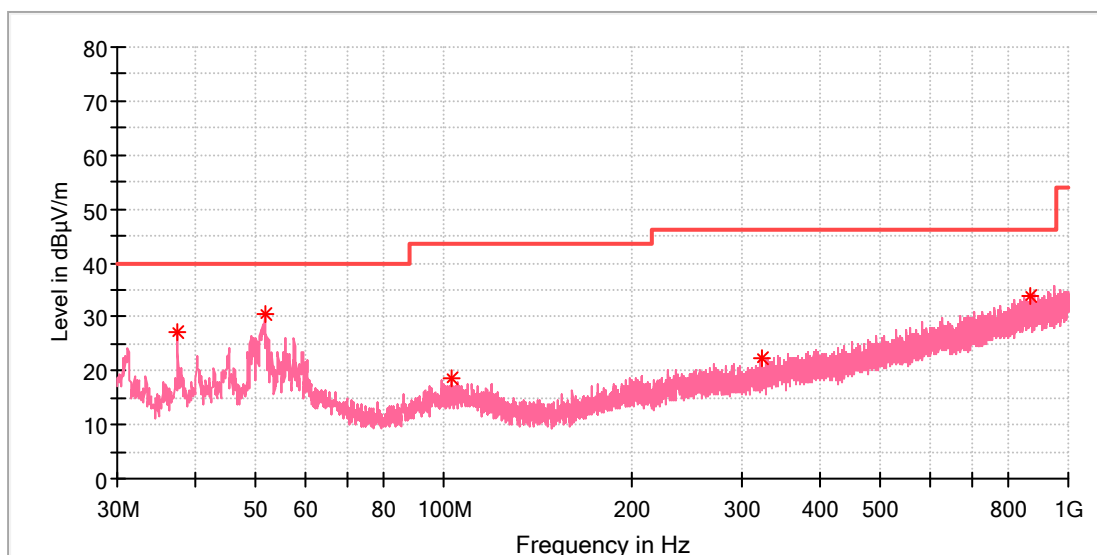


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
51.146000	20.94	40.00	19.06	100.0	H	293.0	-18.3
104.738500	17.96	43.50	25.54	100.0	H	176.0	-18.8
392.683000	24.24	46.00	21.76	100.0	H	223.0	-13.8
899.750500	35.71	46.00	10.29	100.0	H	223.0	-5.0

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



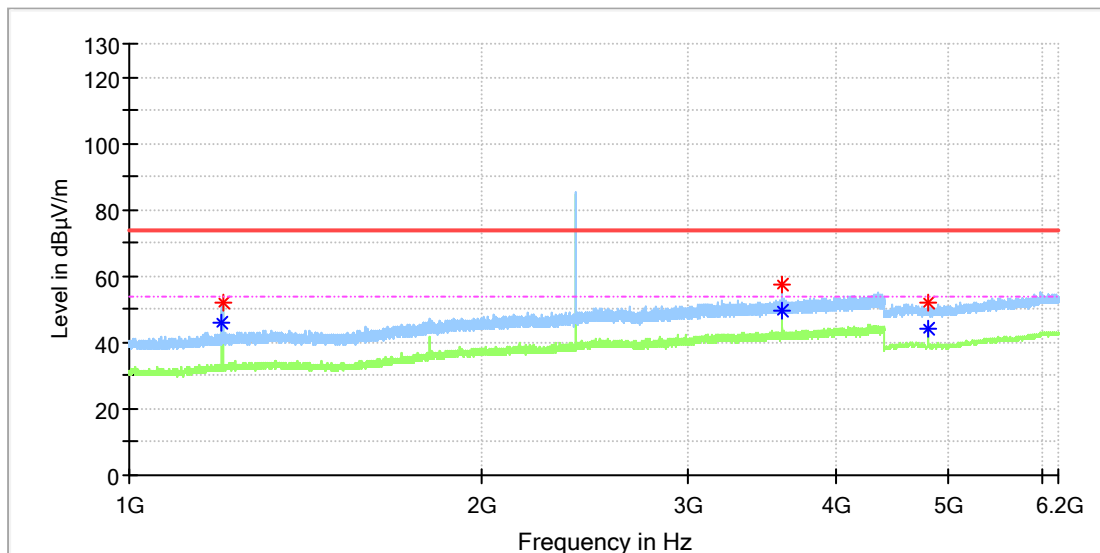
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.517500	27.16	40.00	12.84	100.0	V	294.0	-21.0
51.679500	30.53	40.00	9.47	100.0	V	82.0	-18.4
103.235000	18.56	43.50	24.94	100.0	V	264.0	-18.8
323.861500	22.16	46.00	23.84	100.0	V	156.0	-15.7
868.322500	33.83	46.00	12.17	100.0	V	115.0	-5.3

BDR mode, 1GHz - 6.2GHz

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

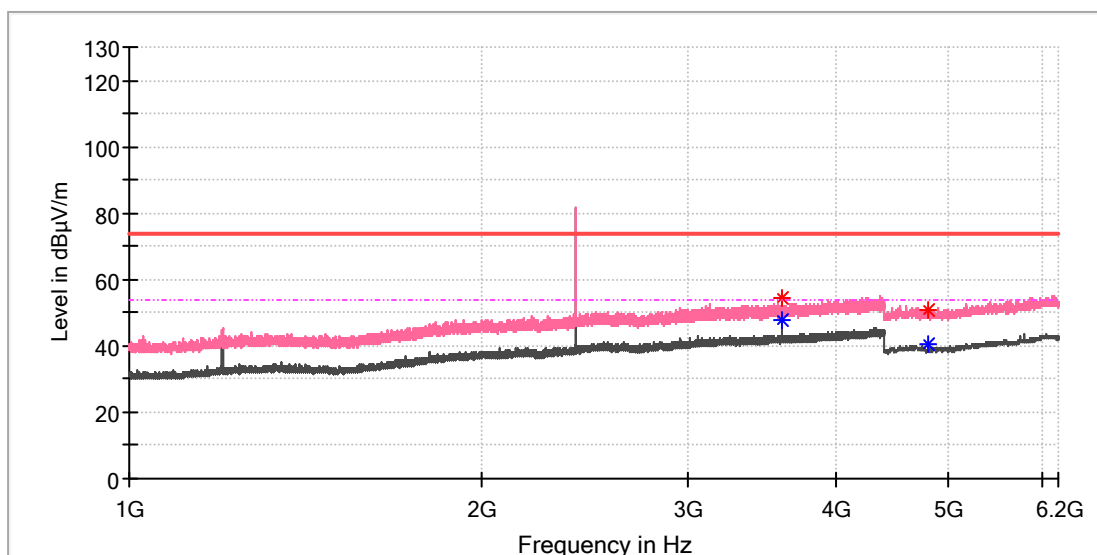


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.260000	---	45.86	54.00	8.14	100.0	H	355.0	1.1
1200.940000	51.85	---	74.00	22.15	100.0	H	355.0	1.1
3602.190000	---	49.87	54.00	4.13	100.0	H	0.0	9.3
3602.870000	57.53	---	74.00	16.47	100.0	H	0.0	9.3
4803.500000	51.80	---	74.00	22.20	100.0	H	319.0	11.8
4804.000000	---	43.90	54.00	10.10	100.0	H	139.0	11.8

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

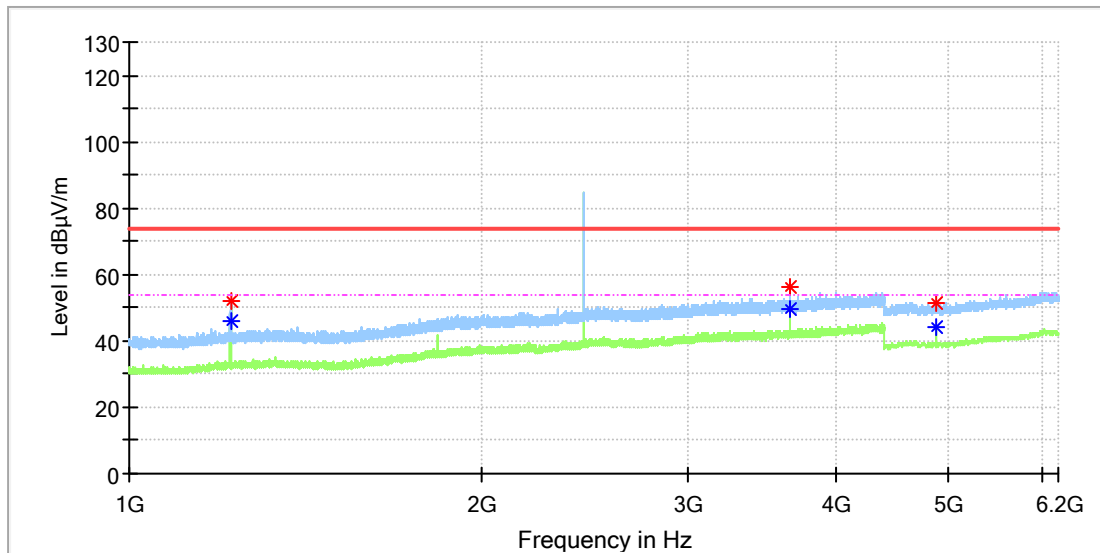


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
3603.040000	---	48.00	54.00	6.00	100.0	V	32.0	9.3
3603.550000	54.68	---	74.00	19.32	100.0	V	20.0	9.3
4803.500000	---	40.68	54.00	13.32	100.0	V	224.0	11.8
4804.000000	50.92	---	74.00	23.08	100.0	V	279.0	11.8

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

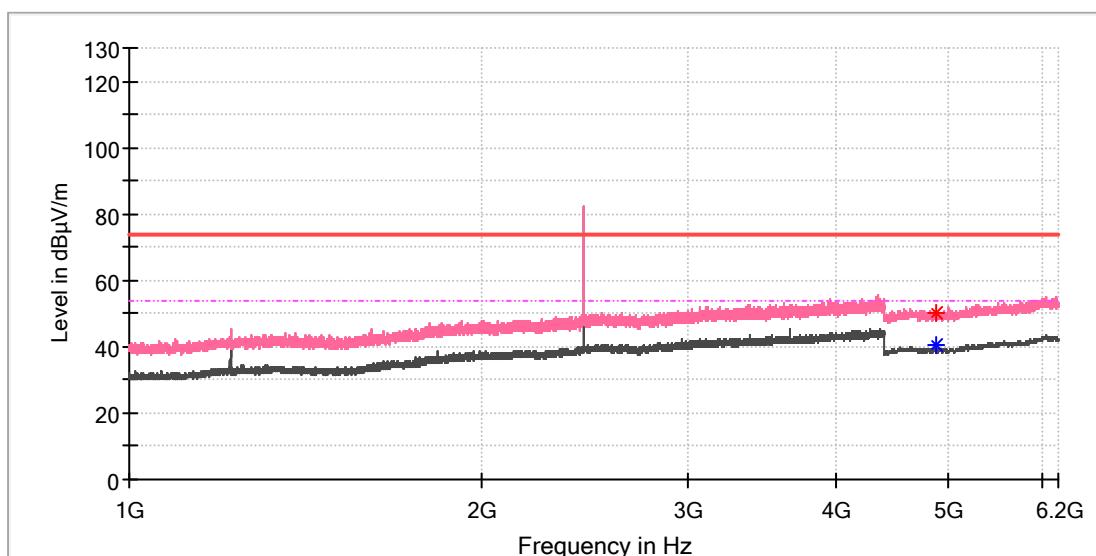


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1220.320000	52.27	---	74.00	21.73	100.0	H	226.0	1.4
1221.000000	---	45.94	54.00	8.06	100.0	H	226.0	1.4
3661.010000	---	49.55	54.00	4.45	100.0	H	215.0	9.5
3661.520000	56.48	---	74.00	17.52	100.0	H	215.0	9.5
4881.500000	---	43.86	54.00	10.14	100.0	H	8.0	11.8
4882.000000	51.18	---	74.00	22.82	100.0	H	164.0	11.8

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

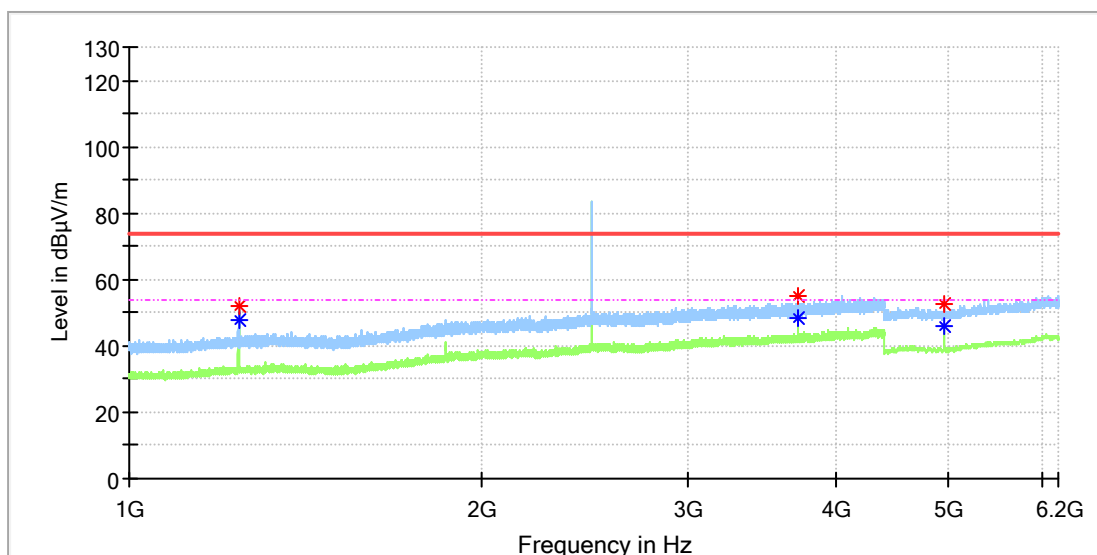


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4880.000000	50.17	---	74.00	23.83	100.0	V	9.0	11.8
4882.000000	---	40.22	54.00	13.78	100.0	V	199.0	11.8

EUT Information

EUT Name: RIC Behind-the-ear Hearing Aid
Model: Dion TWS
Test Mode: BR_DH5_High channel
Order No/Sample No: 168363617/A003243942-005
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

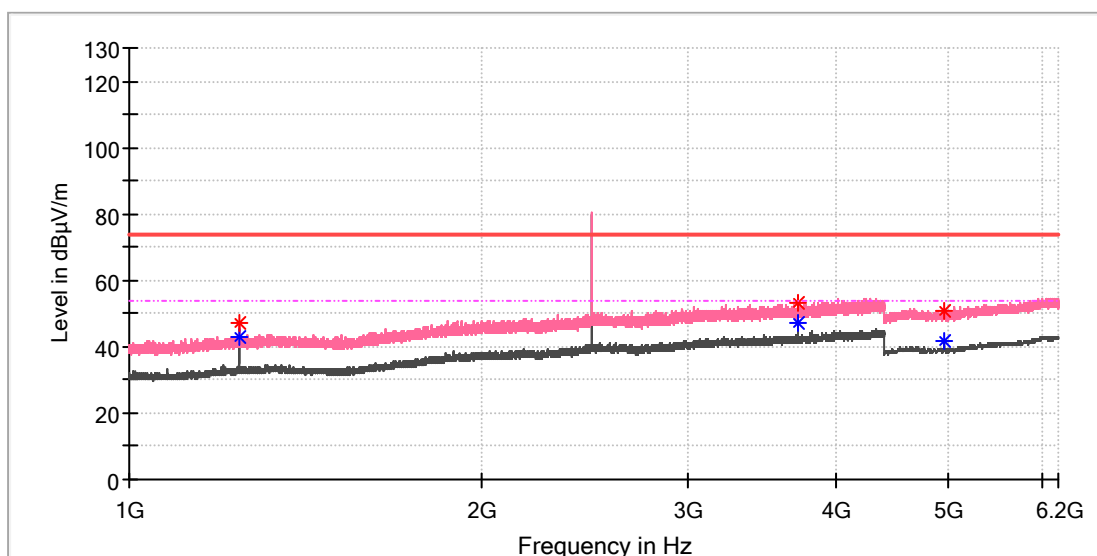


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1239.870000	52.21	---	74.00	21.79	100.0	H	196.0	1.7
1240.380000	---	47.94	54.00	6.06	100.0	H	196.0	1.8
3720.170000	---	48.67	54.00	5.33	100.0	H	229.0	9.6
3720.340000	54.72	---	74.00	19.28	100.0	H	308.0	9.6
4960.000000	---	46.00	54.00	8.00	100.0	H	144.0	11.8
4960.000000	52.40	---	74.00	21.60	100.0	H	144.0	11.8

EUT Information

EUT Name: RIC Behind-the-ear Hearing Aid
Model: Dion TWS
Test Mode: BR_DH5_High channel
Order No/Sample No: 168363617/A003243942-005
Test Voltage:: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



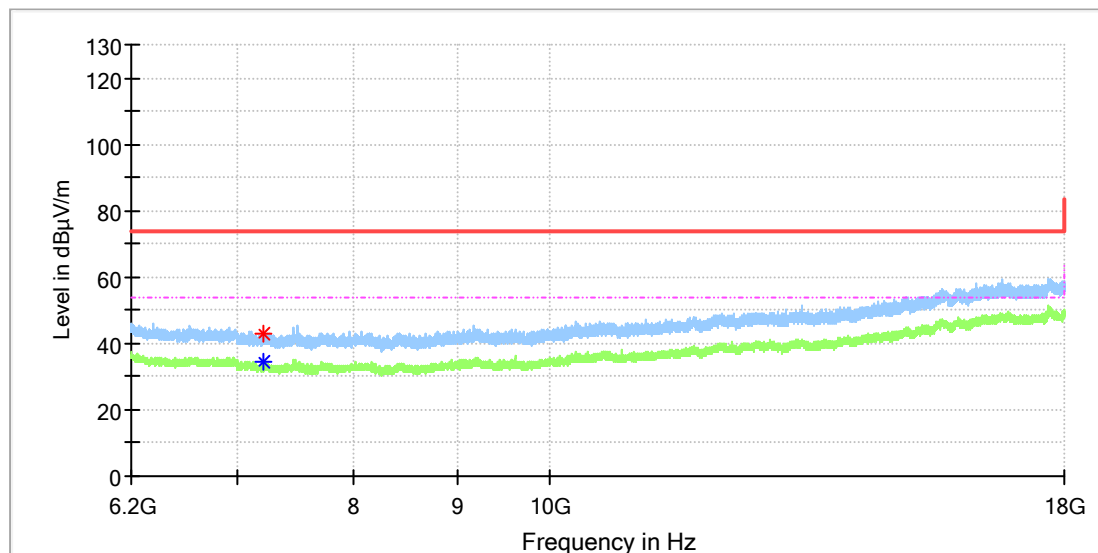
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1239.530000	46.88	---	74.00	27.12	100.0	V	91.0	1.7
1240.040000	---	43.05	54.00	10.95	100.0	V	91.0	1.7
3720.170000	---	47.35	54.00	6.65	100.0	V	91.0	9.6
3720.680000	53.08	---	74.00	20.92	100.0	V	6.0	9.6
4950.500000	50.86	---	74.00	23.14	100.0	V	142.0	11.8
4960.000000	---	41.73	54.00	12.27	100.0	V	277.0	11.8

BDR mode, 6.2GHz - 18GHz

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

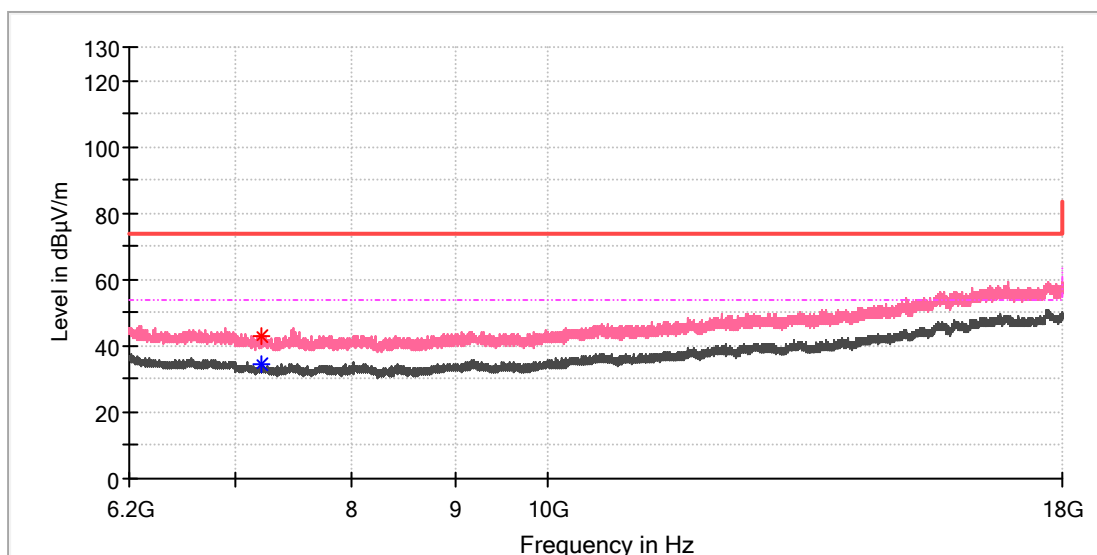


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	---	34.56	54.00	19.44	100.0	H	215.0	8.8
7217.258333	42.67	---	74.00	31.33	100.0	H	0.0	8.7

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

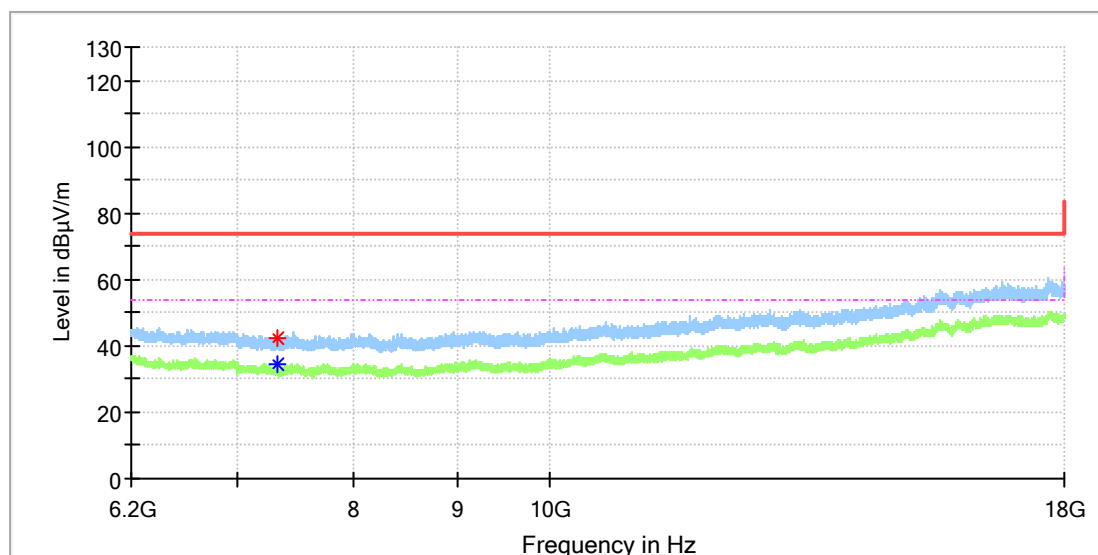


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	---	34.24	54.00	19.76	100.0	V	47.0	8.8
7206.441667	43.16	---	74.00	30.84	100.0	V	20.0	8.8

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

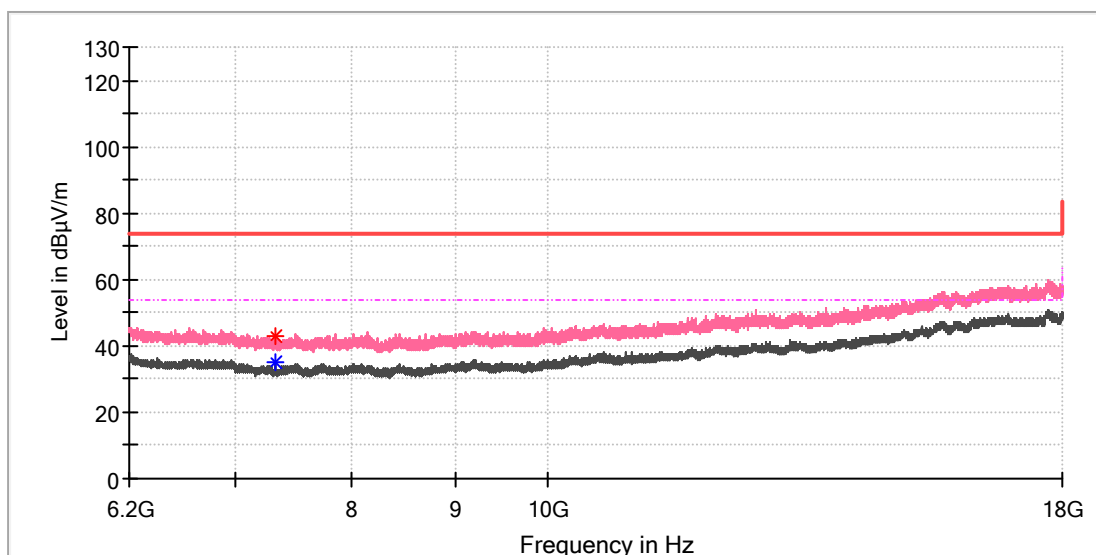


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.475000	42.58	---	74.00	31.42	100.0	H	137.0	8.2
7322.475000	---	34.69	54.00	19.31	100.0	H	137.0	8.2

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

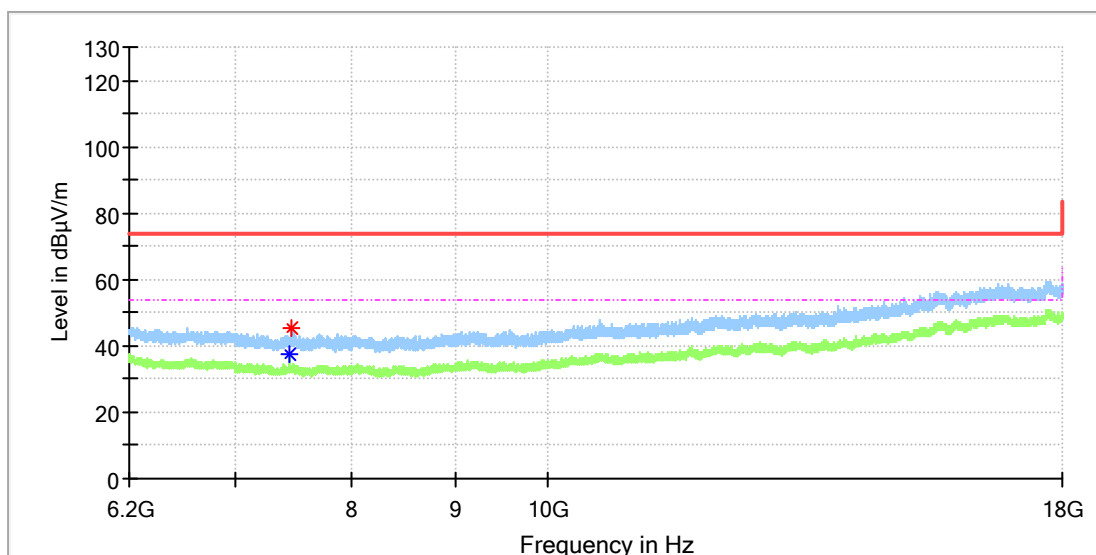


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.966667	---	35.15	54.00	18.85	100.0	V	40.0	8.2
7323.950000	42.91	---	74.00	31.09	100.0	V	117.0	8.2

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

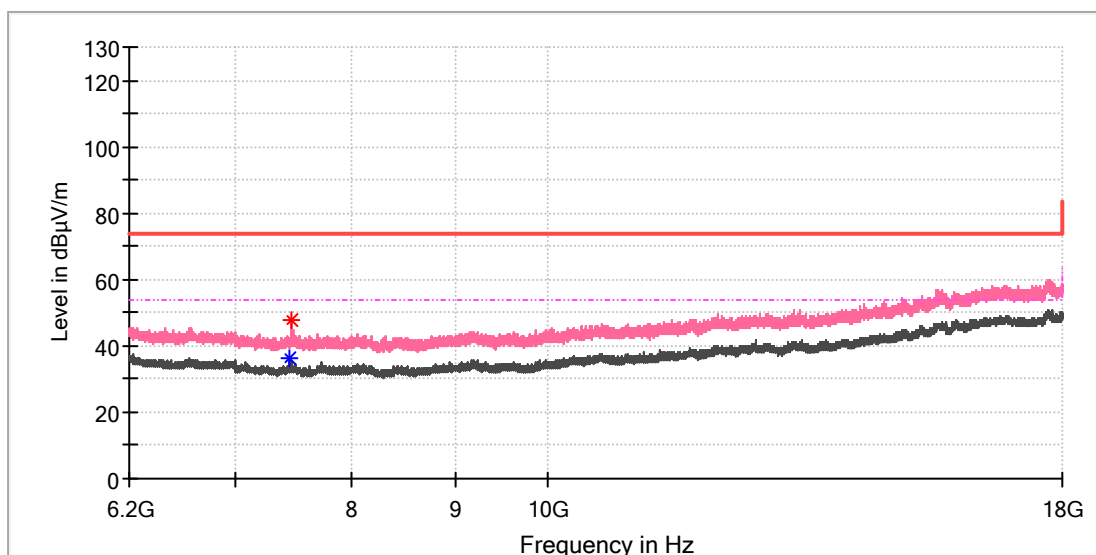


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	37.27	54.00	16.73	100.0	H	164.0	8.4
7464.566667	45.06	---	74.00	28.94	100.0	H	6.0	8.6

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

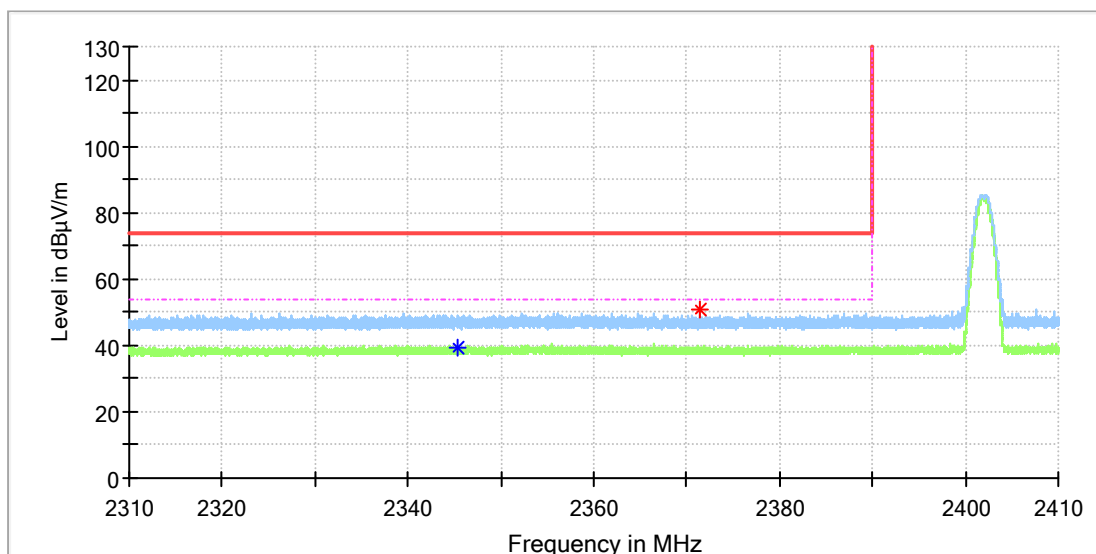
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.983333	---	36.38	54.00	17.62	100.0	V	43.0	8.4
7464.566667	47.57	---	74.00	26.43	100.0	V	285.0	8.6

Appendix C.2: Test Plots of Band Edge (Radiated)

BDR mode, Low Channel

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

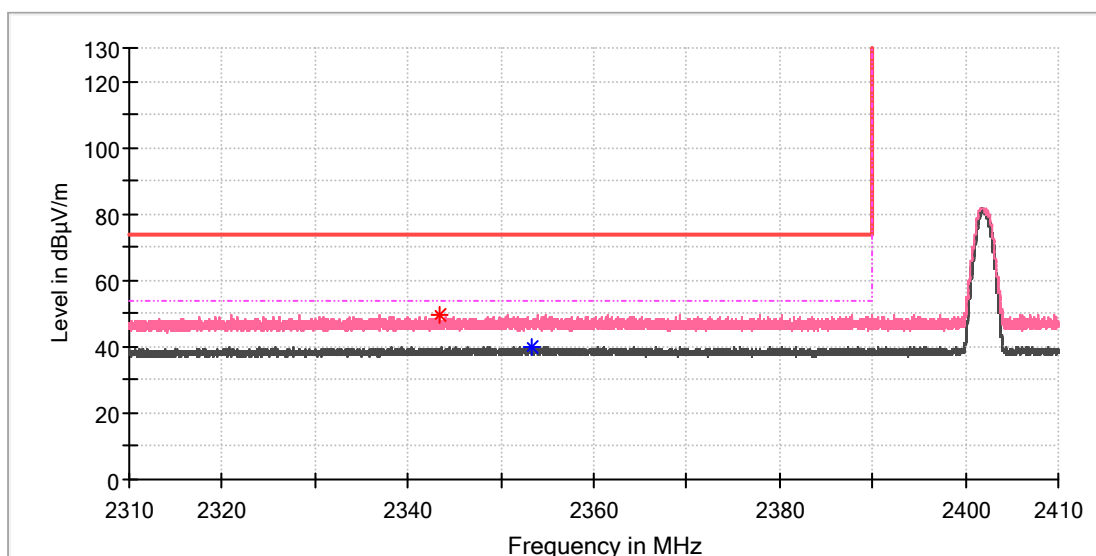


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2345.320000	---	39.58	54.00	14.42	100.0	H	157.0	6.9
2371.325000	50.85	---	74.00	23.15	100.0	H	278.0	6.9

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



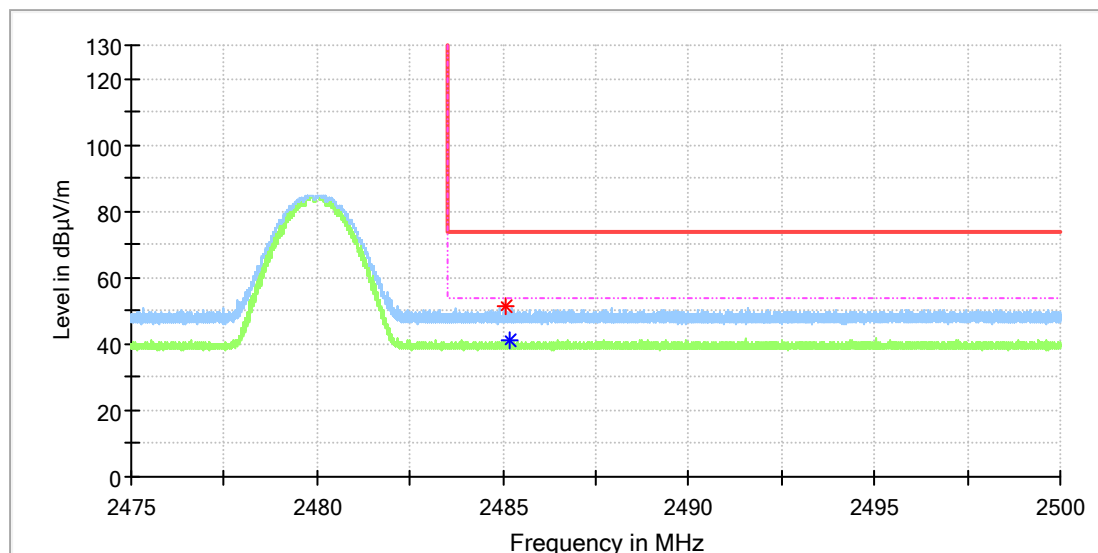
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2343.465000	49.43	---	74.00	24.57	100.0	V	149.0	6.9
2353.425000	---	39.88	54.00	14.12	100.0	V	267.0	6.9

BDR mode, High Channel

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

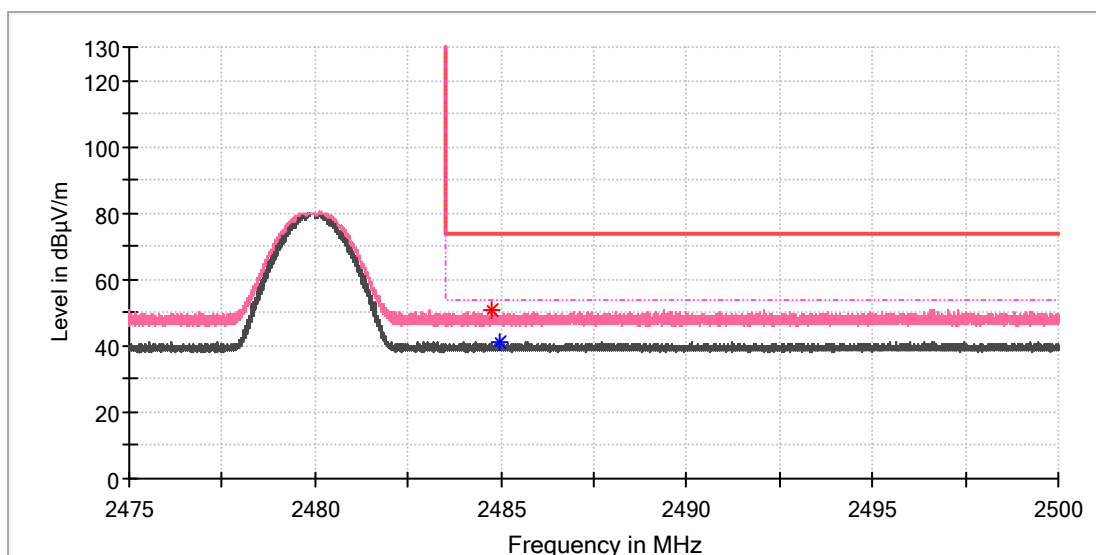


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.067500	51.56	---	74.00	22.44	100.0	H	341.0	7.4
2485.188750	---	41.14	54.00	12.86	100.0	H	78.0	7.4

EUT Information

EUT Name:	RIC Behind-the-ear Hearing Aid
Model:	Dion TWS
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168363617/A003243942-005
Test Voltage::	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2484.755000	50.66	---	74.00	23.34	100.0	V	250.0	7.4
2484.992500	---	40.88	54.00	13.12	100.0	V	0.0	7.4