

Test Report

Verified code: 321604

Report No.: E20221011998501-3

Customer: OnePlus Technology (Shenzhen) Co., Ltd.
Address: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, China
Sample Name: Wireless Earbuds
Sample Model: E507A
Receive Sample Date: Oct.12,2022
Test Date: Oct.19,2022 ~ Oct.25,2022
Reference Document: CFR 47, FCC Part 15 Subpart C
RADIO FREQUENCY DEVICES:Subpart C—Intentional Radiators
Test Result: Pass

Prepared by: *Wen Wen*

Reviewed by: *Wu Haoping*

Approved by: *Xiao Liang*



GUANGZHOU GRG METROLOGY & TEST CO., LTD

Issued Date: 2022-11-05

GUANGZHOU GRG METROLOGY & TEST CO., LTD.

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4. If there is any objection concerning the report, please inform us within 15 days from the date of receiving the report.
5. Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E20221011998501-3	Original Issue	2022-10-26

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1. TEST RESULT SUMMARY

FCC 47 CFR Part 15 Subpart C 15.247, ANSI C63.10-2013 KDB 558074 D01 15.247 measurement guidance v05r02			
Standard	Item	Limit / Severity	Result
FCC 47 CFR Part 15 Subpart C (15.247)	Antenna Requirement	Section 15.203	PASS
	20dB Bandwidth	Section 15.247(a)(1)	PASS
	Carrier Frequencies Separated	Section 15.247(a)(1)	PASS
	Hopping Channel Number	Section 15.247(a)(1)(ii)	PASS
	Dwell Time	Section 15.247(a)(1)(iii)	PASS
	Maximum Peak Output Power	Section 15.247(b)(1)	PASS
	Conducted Emission	Section 15.207	PASS
	Conducted band edges and Spurious Emission	Section 15.209 & 15.247(d)	PASS
	Radiated Spurious Emission	Section 15.209 & 15.247(d)	PASS
	Restricted bands of operation	Section 15.247 (d) & 15.205	PASS

Note: The antenna is Integrated antenna. The max gain of antenna is -2.0dBi for left wireless earbuds and -2.6dBi for right wireless earbuds .which accordance 15.203 is considered sufficient to comply with the provisions of this section.

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2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name: OnePlus Technology (Shenzhen) Co., Ltd.
Address: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, China

2.2 MANUFACTURER

Name: OnePlus Technology (Shenzhen) Co., Ltd.
Address: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, China

2.3 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Equipment: Wireless Earbuds
Model No.: E507A
Adding Model: /
Trade Name: ONEPLUS
FCC ID: 2ABZ2-E507A
Power supply: 3.85Vdc supplied by an internal rechargeable Li-ion battery.
DC 5V supplied by Adapter.
Earbuds Battery Specification: Model:122540
Nominal Voltage:3.85Vdc
Rated Capacity: 0.231Wh
Model:631940-1 1ICP7/19/40
Charging case Battery Specification: Nominal Voltage:3.80Vdc
Rated Capacity: 520mAh 1.976Wh
Typical Capacity: 525mAh 1.995Wh
Limited Charging Voltage: 4.35Vdc
Frequency Range: 2402MHz~2480MHz
Transmit Power: Left earphone:
GFSK:12.00dBm
 $\pi/4$ -DQPSK:11.97dBm
8DPSK:11.98dBm
Right earphone:
GFSK:12.44dBm
 $\pi/4$ -DQPSK:12.40dBm
8DPSK:12.42dBm
Type of Modulation: FHSS (GFSK for 1Mbps, $\pi/4$ -DQPSK for 2Mbps,8DPSK for 3Mbps)
Antenna Specification: Integrated antenna with
Left earphone:-2.0dBi
Right earphone:-2.6dBi

Temperature Range: 0°C~+35°C

Hardware Version: X22E2_0

Software Version: V087

Sample No: E20221011998501-0001,E20221011998501-0003

Note: The charging case has a wireless charging receiving function only, has no transmitting.

2.4 TEST OPERATION MODE

Mode No.	Description of the modes
1	Bluetooth(BT) fixed frequency transmitting

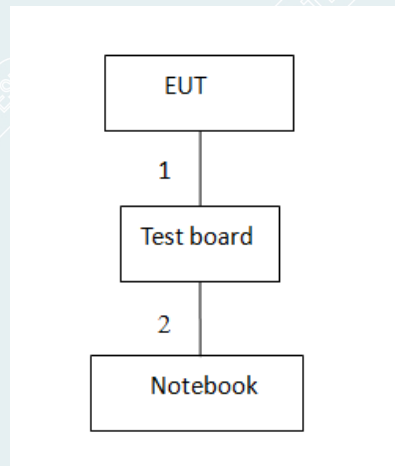
2.5 LOCAL SUPPORTIVE

Name of equipment	Manufacturer	Model	Serial number	Note
Notebook	DELL	Latitude3490	5GSXKP2	/
Test board	/	/	/	/
Adapter	Dongguan Aohai power technology Co., Ltd.	A8A-050200U-US1	/	/

No.	Cable Type	Manufacturer	Model	Qty.	Shielded Type	Ferrite Core(Qty.)	Length
1	DC cable	/	/	1	No	0	Unshielded 0.15m
2	USB extension cable	/	/	1	No	0	Unshielded 1m
3	USB cable	Freeport Resources Enterprises Corp.	KFU522042501	1	No	0	Unshielded 0.20m

2.6 CONFIGURATION OF SYSTEM UNDER TEST

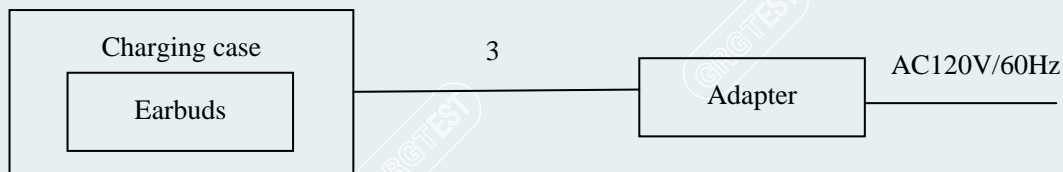
For 20dB bandwidth, Carrier Frequencies Separated, Hopping Channel Number , Dwell Time ,Maximum Peak Output Power, Conducted band edges and Spurious Emission measurement:



For Radiated Spurious Emission, Restricted bands of operation:



For Conducted Emission:



Test software:

Software version	Test level
BQB	5

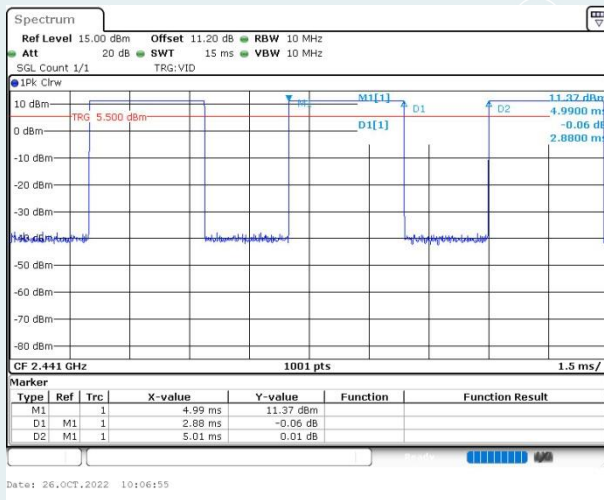
2.7 DUTY CYCLE

EUT Name	Wireless Earbuds	Model	E507A
Environmental Conditions	24.2°C/48%RH/101.0kPa	Test Voltage	DC 3.85V
Tested By	Yang Zhaoyun	Tested Date	2022-10-26

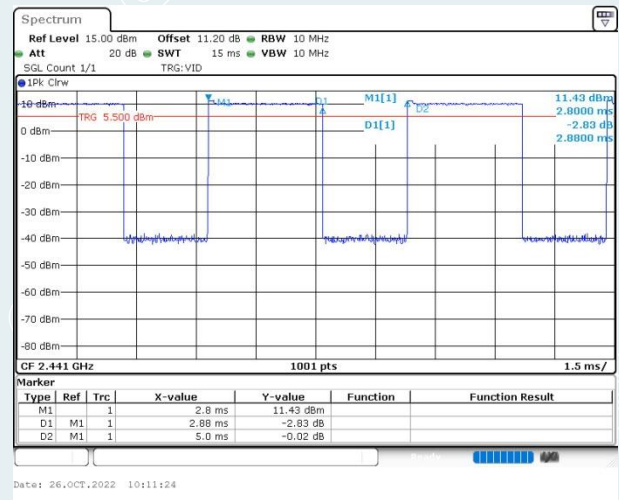
Left earphone

TestMode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	DC [%]	T [s]
DH5	Ant1	2441	2.88	5.01	57.49	0.00288
2DH5	Ant1	2441	2.88	5.00	57.60	0.00288
3DH5	Ant1	2441	2.88	4.99	57.72	0.00288

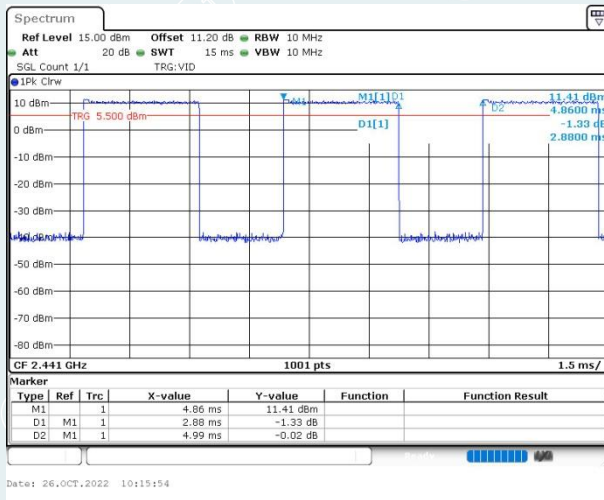
DH5_2441MHz



2DH5_2441MHz



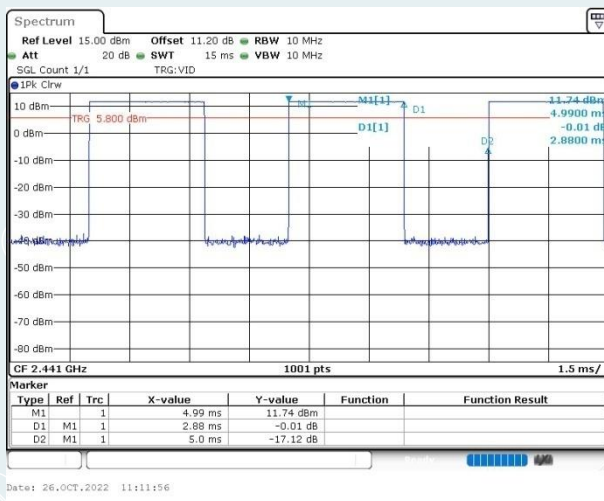
3DH5_2441MHz



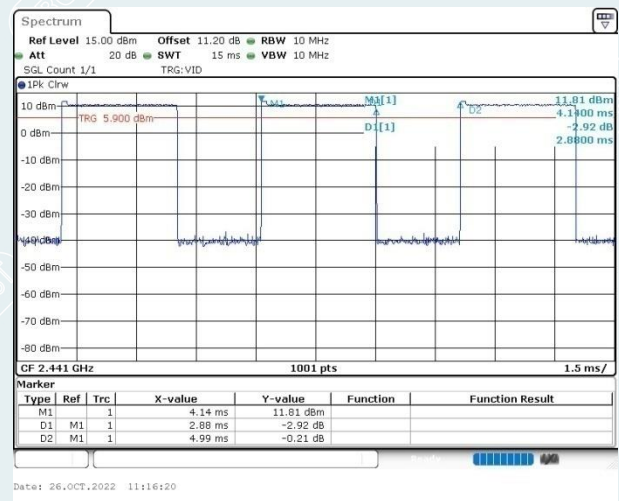
Right earphone

TestMode	Antenna	Frequency [MHz]	ON Time [ms]	Period [ms]	DC [%]	T [s]
DH5	Ant1	2441	2.88	5.00	57.60	0.00288
2DH5	Ant1	2441	2.88	4.99	57.72	0.00288
3DH5	Ant1	2441	2.88	4.99	57.72	0.00288

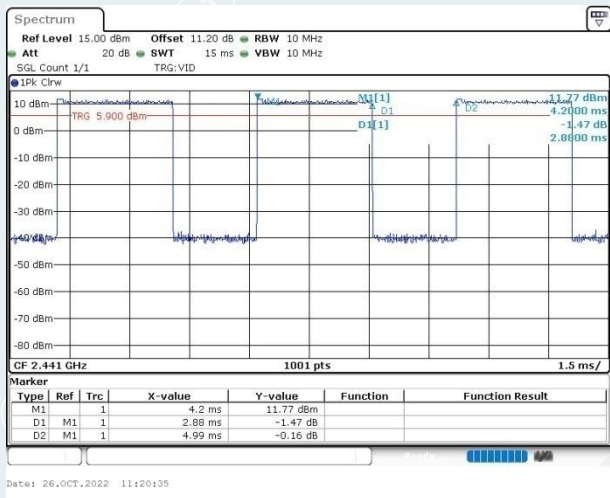
DH5_2441MHz



2DH5_2441MHz



3DH5_2441MHz



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3. LABORATORY AND ACCREDITATIONS

3.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of Guangzhou GRG Metrology & Test Co., Ltd.

Add : No.1301 Guangang Road Xinlan Community, Guanlan Street, Longhua District
Shenzhen, 518110, People's Republic of China

P.C. : 518110

Tel : 0755-61180008

Fax : 0755-61180008

3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to GB/T 27025(ISO/IEC 17025:2017)

USA A2LA(Certificate #2861.01)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada ISED (Company Number: 24897, CAB identifier:CN0069)

USA FCC (Registration Number: 759402, Designation Number:CN1198)

Copies of granted accreditation certificates are available for downloading from our web site,
<http://www.grgtest.com>

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4. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement		Frequency	Uncertainty
Radiated Emission	Horizontal	9kHz~30MHz	5.1dB
		30MHz~200MHz	4.5dB
		200MHz~1000MHz	4.4dB
		1GHz~18GHz	5.6dB
		18GHz~26.5GHz	3.7dB
	Vertical	9kHz~30MHz	5.1dB
		30MHz~200MHz	4.4dB
		200MHz~1000MHz	4.5dB
		1GHz~18GHz	5.6dB
		18GHz~26.5GHz	3.7dB
Conduction Emission		150kHz~30MHz	3.40dB

Measurement	Uncertainty
RF frequency	6.0×10^{-6}
RF power conducted	0.78dB
Occupied channel bandwidth	0.4dB
Unwanted emission, conducted	0.68dB
Humidity	6%
Temperature	2°C

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95%. This uncertainty represents an expanded uncertainty factor of $k=2$.

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5. LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Conducted Emissions				
EMI TEST RECEIVER	R&S	ESCI	100783	2023-08-28
LISN(EUT)	R&S	ENV216	101543	2023-09-13
Test S/W	EZ	CCS-3A1-CE		
Radiated Spurious Emission&Restricted bands of operation				
Test S/W	EZ	CCS-03A1		
Test Receiver	R&S	ESR7	102444	2023-09-02
Preamplifier	EMEC	EM330	I00426	2023-03-05
Bi-log Antenna	Schwarzbeck	VULB9160	VULB9160-3401	2022-10-27
Loop Antenna	TESEQ	HLA6121	52599	2023-04-02
Spectrum Analyzer	KEYSIGHT	N9010A	MY52221469	2023-06-29
Horn Antenna	Schwarzbeck	BBHA9120D	02143	2023-10-15
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-497	2023-10-14
Amplifier	Tonscend	TAP01018048	AP20E8060075	2023-05-05
Amplifier	Tonscend	TAP184050	AP20E806071	2023-05-05
Amplifier	SHIRONG ELECTRONIC	DLNA-1G18G-G40	20200928005	2023-05-08
Test S/W	Tonscend	JS36-RE/2.5.1.5		
20dB Bandwidth&Conducted band edges and Spurious Emission& Carrier Frequencies Separated& Hopping Channel Number& Dwell Time				
Spectrum Analyzer	R&S	FSW43	102072	2023-09-02
Maximum Peak Output Power				
Pulse power sensor	Anritsu	MA2411B	1126150	2023-03-01
Power meter	Anritsu	ML2495A	1204003	2023-02-28

Note: The calibration interval of the above test instruments is 12 months.

6. TEST RESULTS

6.1 E.U.T. TEST CONDITIONS

Type of antenna: Internal

Test frequencies: According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and, if required, reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top 1 near middle and 1 near bottom

EUT channels and frequencies list:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	14	2416	28	2430
1	2403	15	2417	29	2431
2	2404	16	2418	30	2432
3	2405	17	2419	31	2433
4	2406	18	2420	32	2434
5	2407	19	2421	33	2435
6	2408	20	2422	34	2436
7	2409	21	2423	35	2437
8	2410	22	2424	36	2438
9	2411	23	2425	37	2439
10	2412	24	2426	38	2440
11	2413	25	2427	39	2441
12	2414	26	2428	40	2442
13	2415	27	2429	41	2443

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
42	2444	55	2457	68	2470
43	2445	56	2458	69	2471
44	2446	57	2459	70	2472
45	2447	58	2460	71	2473
46	2448	59	2461	72	2474
47	2449	60	2462	73	2475
48	2450	61	2463	74	2476
49	2451	62	2464	75	2477
50	2452	63	2465	76	2478
51	2453	64	2466	77	2479
52	2454	65	2467	78	2480
53	2455	66	2468		
54	2456	67	2469		

Test frequency is the lowest channel: 0 frequency(2402MHz), middle channel: 39 frequency (2441MHz) and highest channel: 78 frequency(2480MHz)

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7. 20dB BANDWIDTH

7.1 LIMITS

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

7.2 TEST PROCEDURES

- 1) Remove the antenna from the EUT, and then connect a low loss RF cable from antenna port to the spectrum analyzer.
- 2) Set the spectrum analyzer as RBW=30 kHz, VBW=100 kHz, Span=3MHz, Sweep = auto. Allow the trace to stabilize, record 20dB bandwidth value
- 3) Repeat until all the test channels are investigated.

7.3 TEST SETUP



7.4 TEST RESULTS

Environment: 24.2°C/48%RH/101.0kPa
 Tested By: Yang Zhaoyun

Voltage: DC 3.85V
 Date: 2022-10-26

Left earphone

Test mode	Channel	Frequency (MHz)	20 dB Bandwidth (kHz)
DH5	Lowest	2402	1038
	Middle	2441	1038
	Highest	2480	1038
Test mode	Channel	Frequency (MHz)	20 dB Bandwidth (kHz)
2DH5	Lowest	2402	1182
	Middle	2441	1182
	Highest	2480	1182
Test mode	Channel	Frequency (MHz)	20 dB Bandwidth (kHz)
3DH5	Lowest	2402	1194
	Middle	2441	1194
	Highest	2480	1194

Right earphone

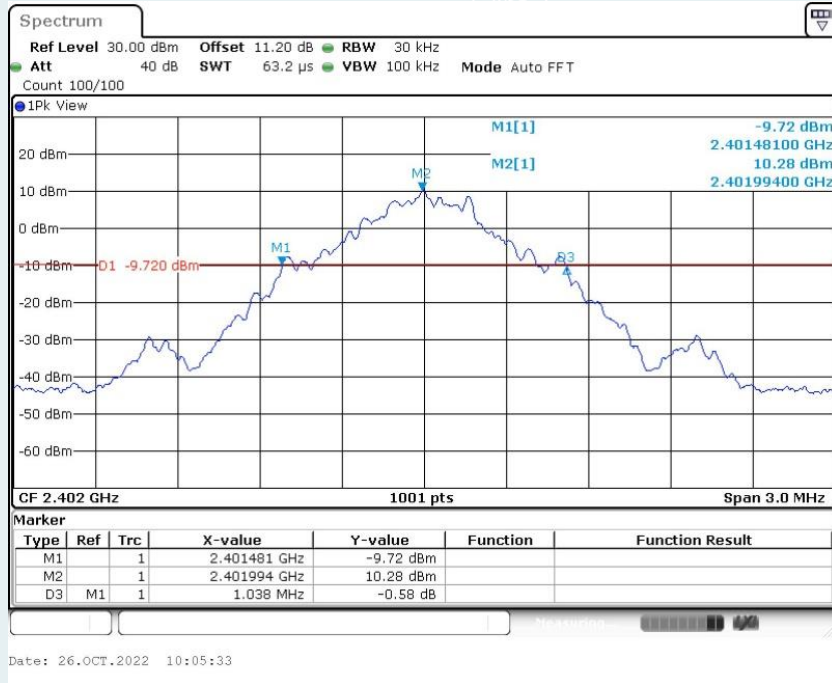
Test mode	Channel	Frequency (MHz)	20 dB Bandwidth (kHz)
DH5	Lowest	2402	1038
	Middle	2441	1038
	Highest	2480	1038
Test mode	Channel	Frequency (MHz)	20 dB Bandwidth (kHz)
2DH5	Lowest	2402	1182
	Middle	2441	1182
	Highest	2480	1182
Test mode	Channel	Frequency (MHz)	20 dB Bandwidth (kHz)
3DH5	Lowest	2402	1191
	Middle	2441	1188
	Highest	2480	1194

Left earphone

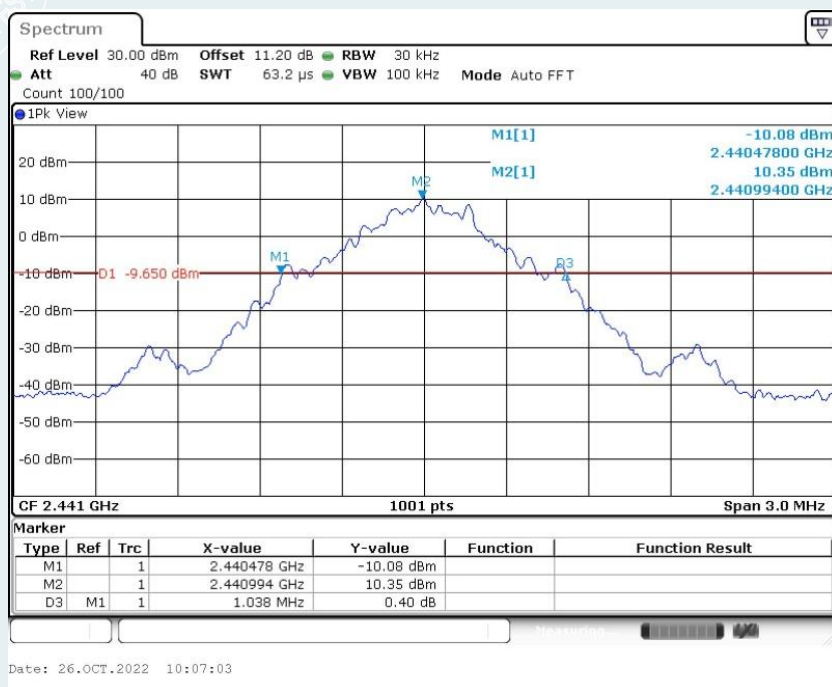
Result plot as follows:

DH5

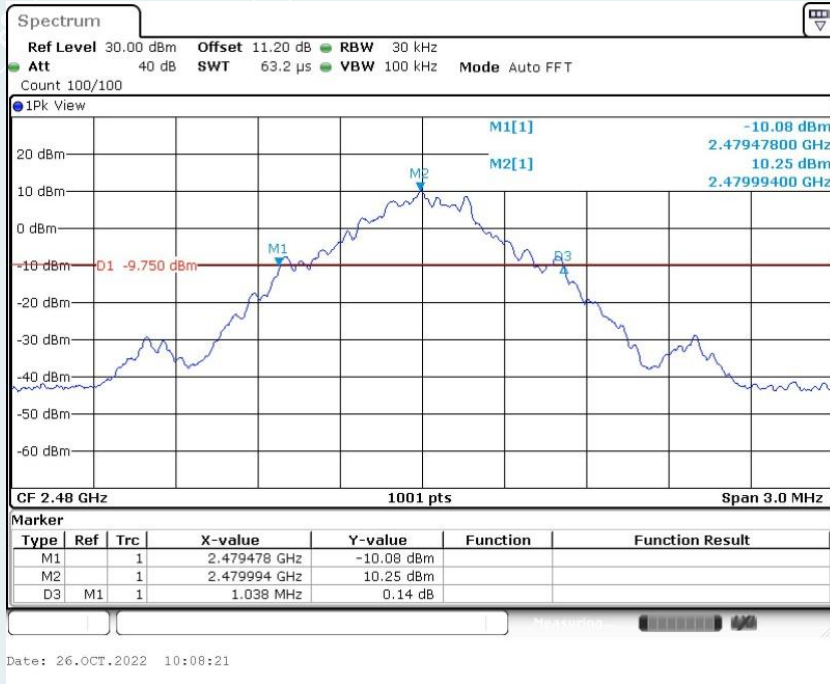
LowestChannel



Middle Channel

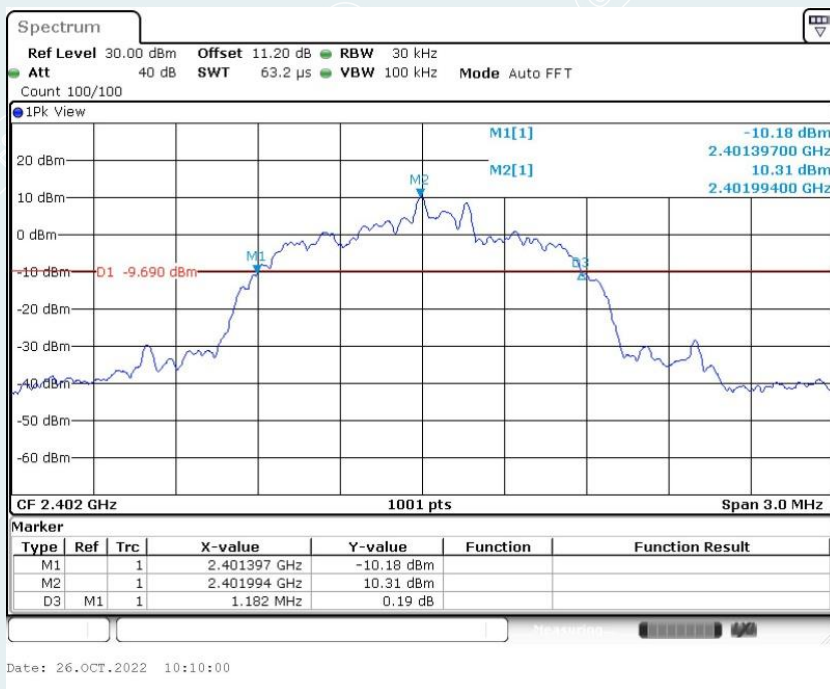


Highest Channel

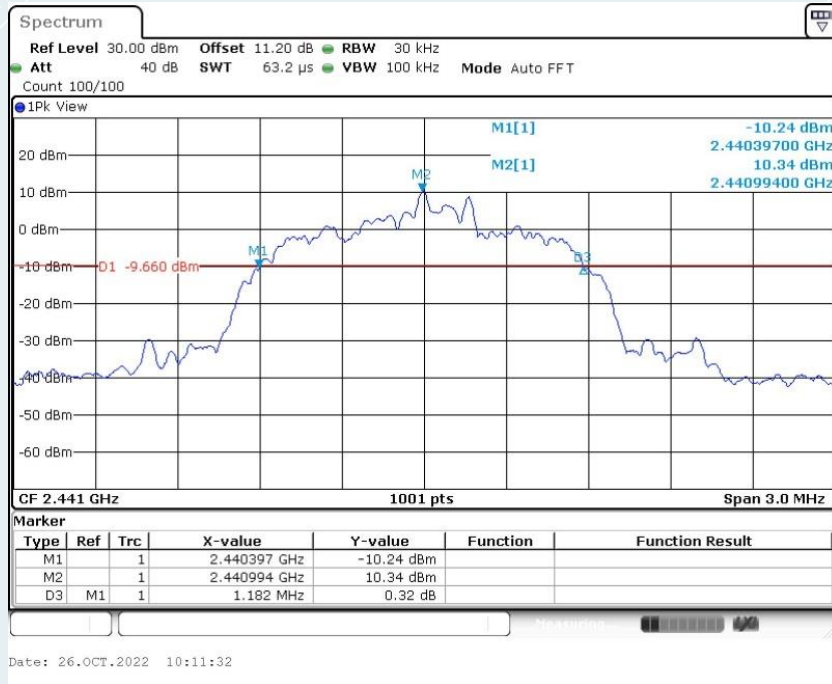


2DH5

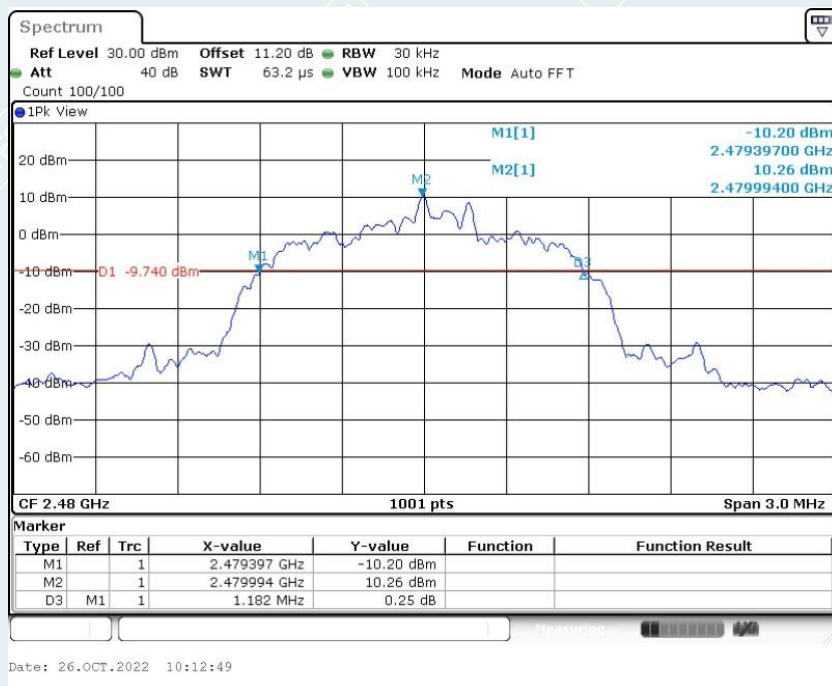
LowestChannel



Middle Channel

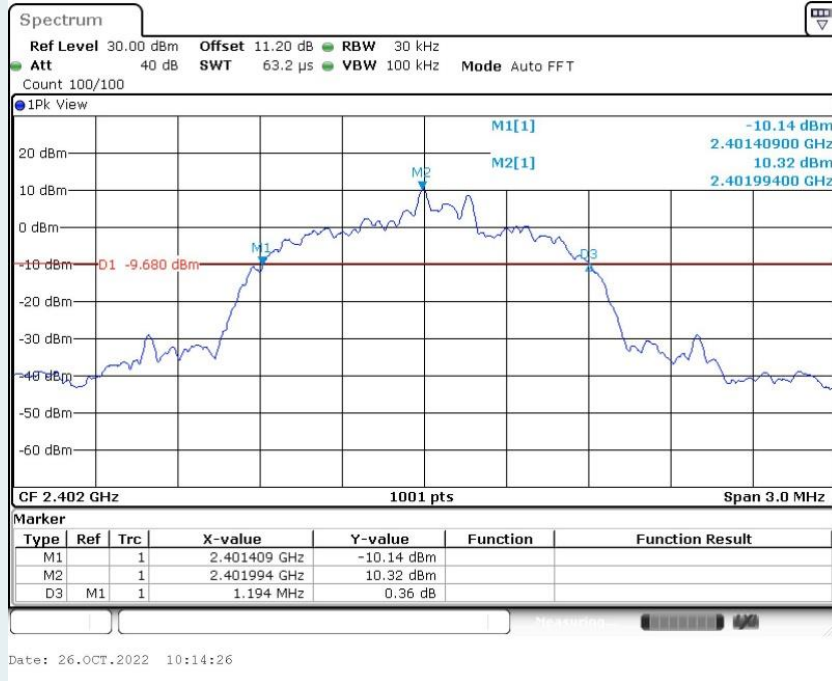


Highest Channel

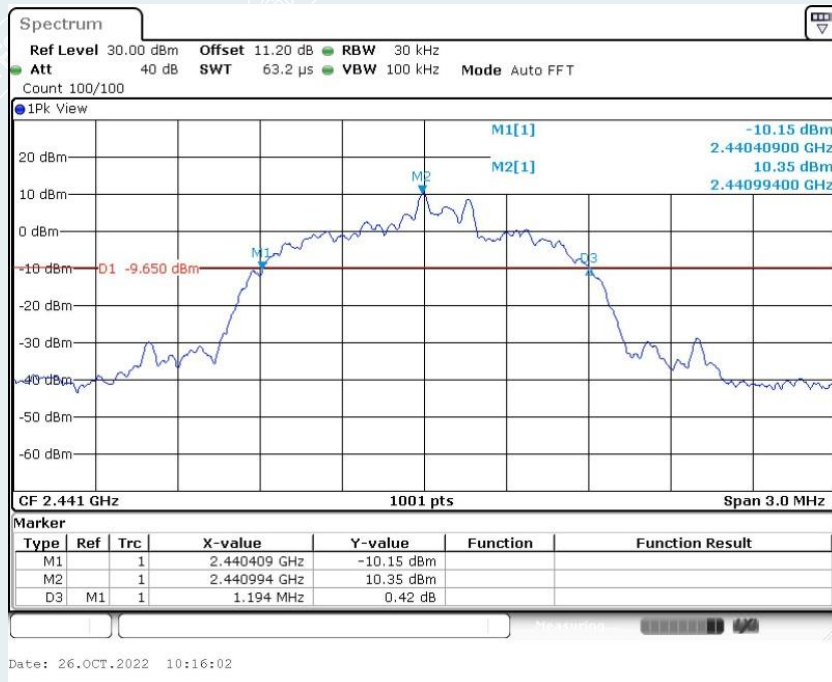


3DH5

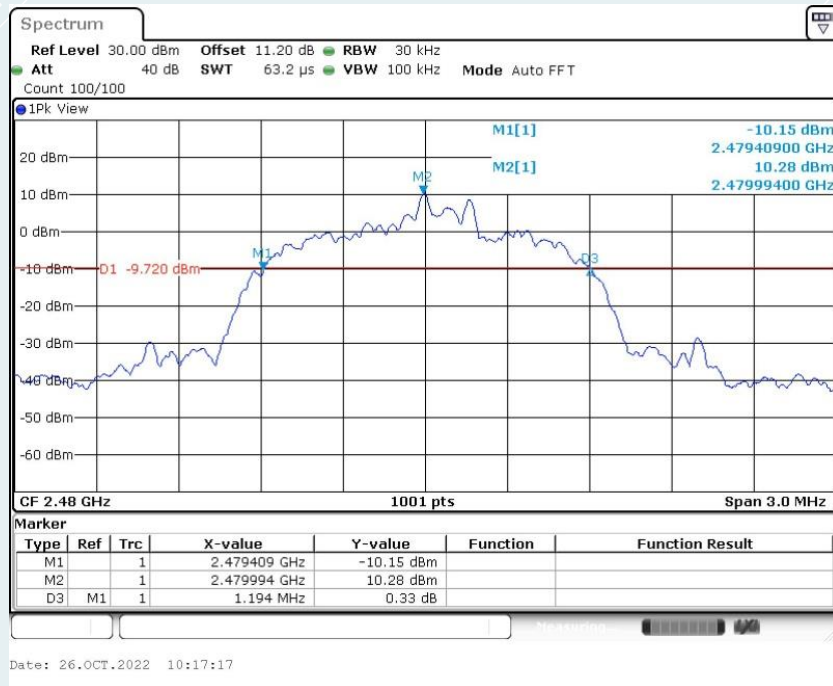
LowestChannel



Middle Channel



Highest Channel



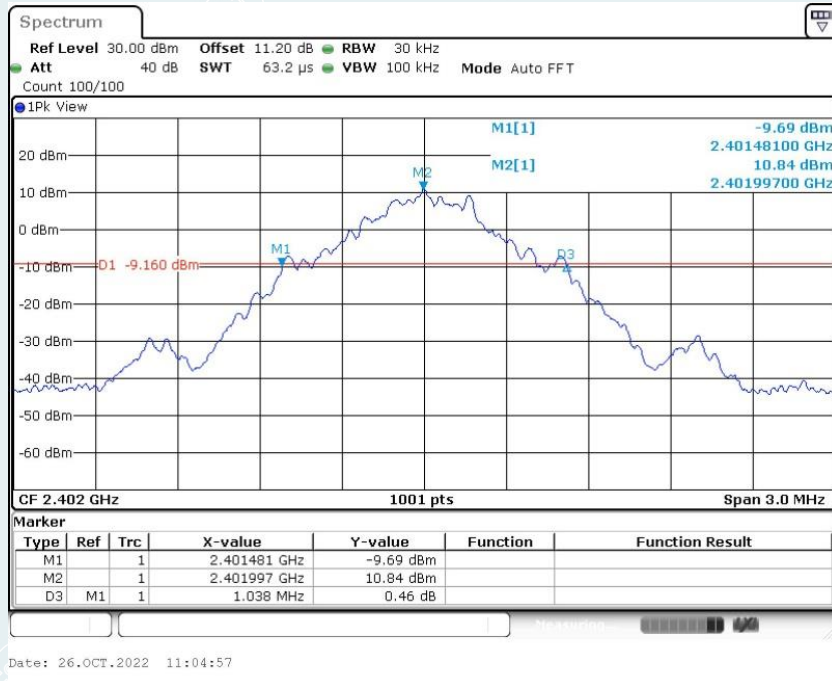
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Right earphone

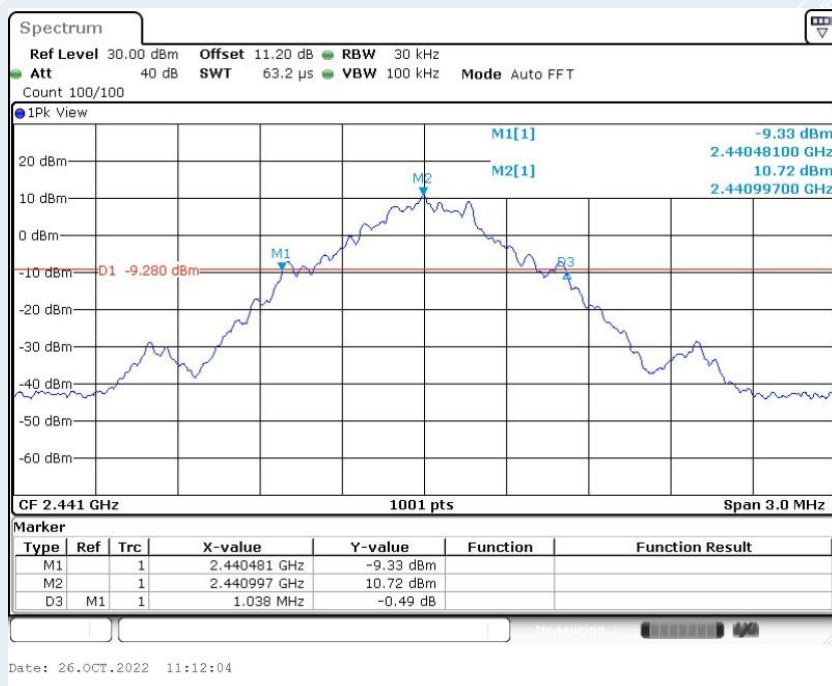
Result plot as follows:

DH5

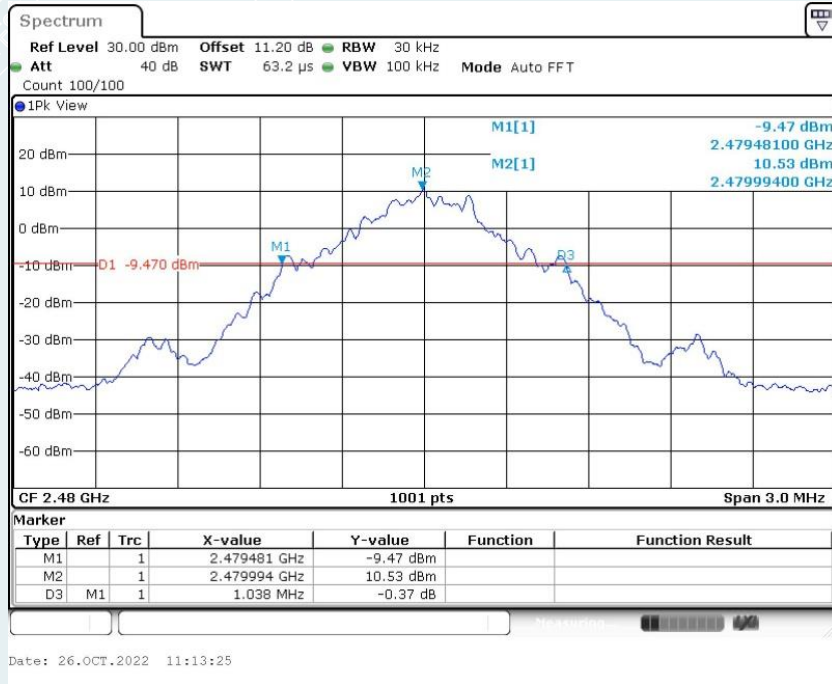
LowestChannel



Middle Channel

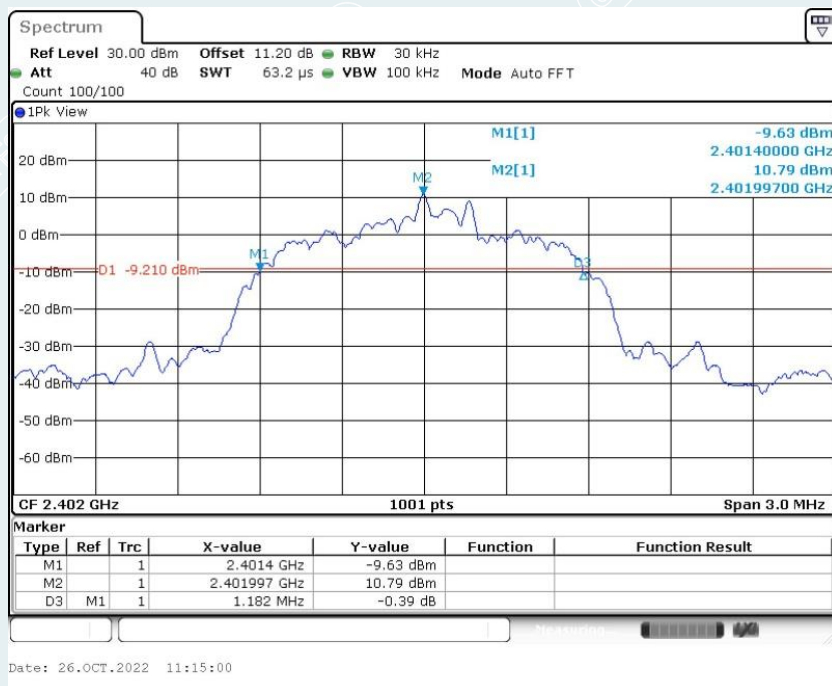


Highest Channel

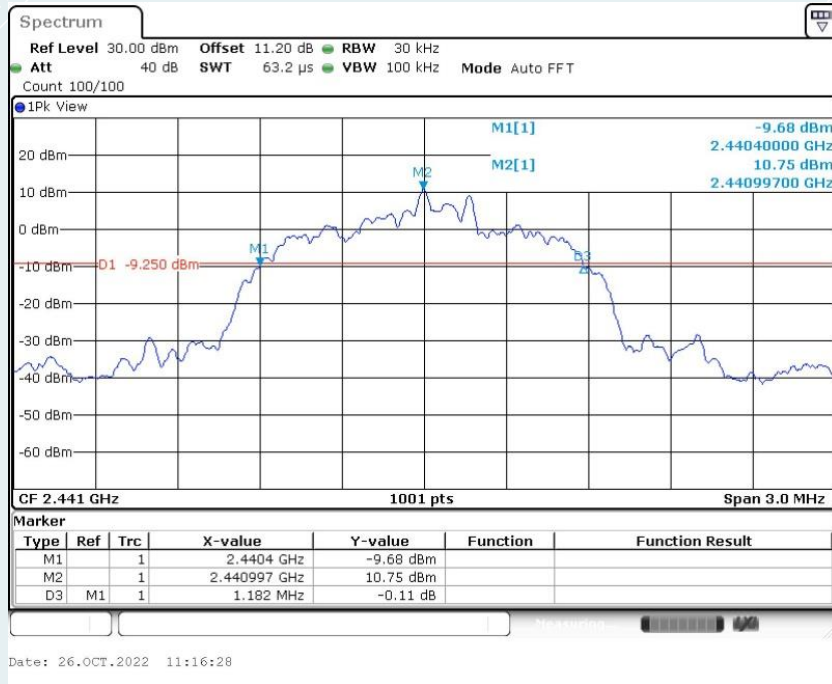


2DH5

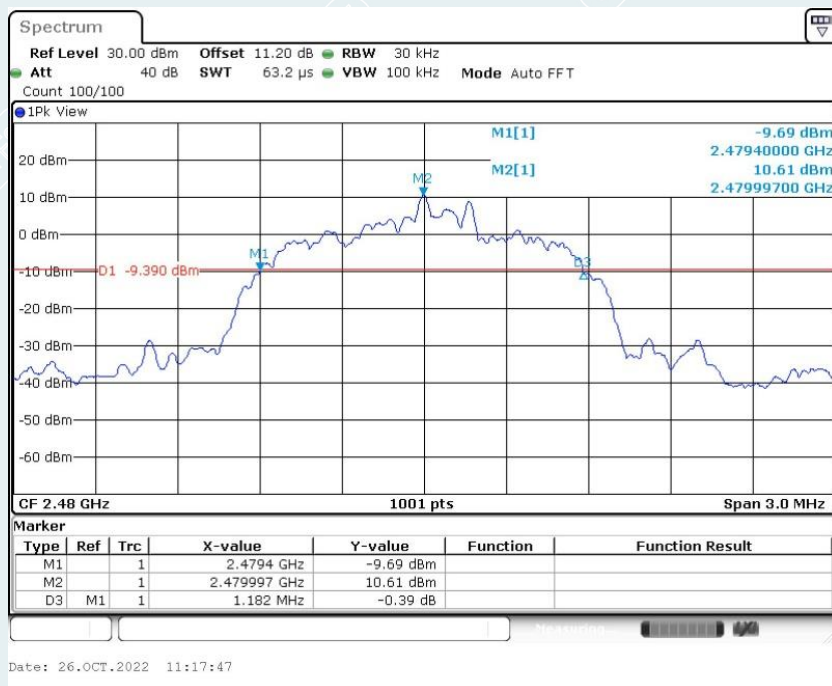
LowestChannel



Middle Channel

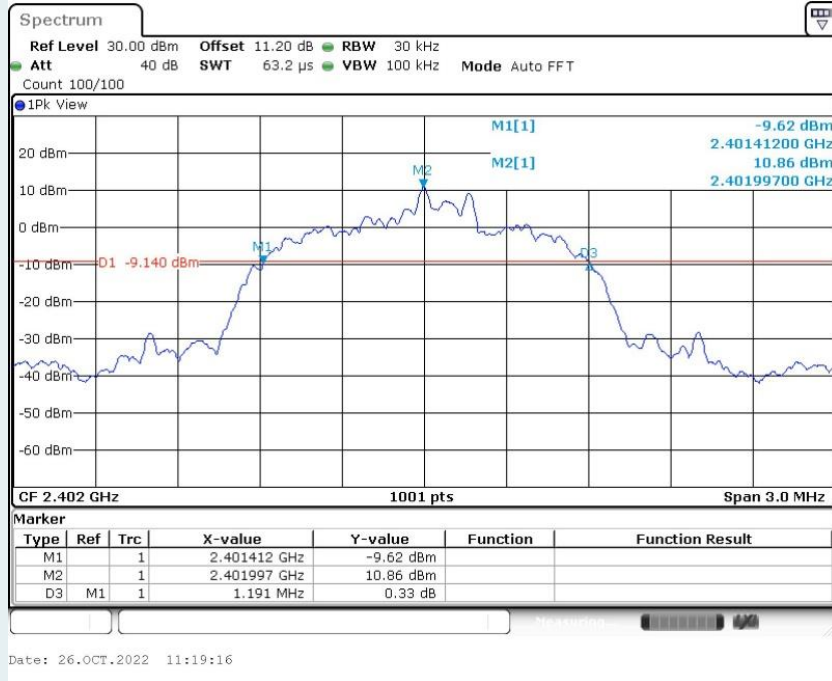


Highest Channel

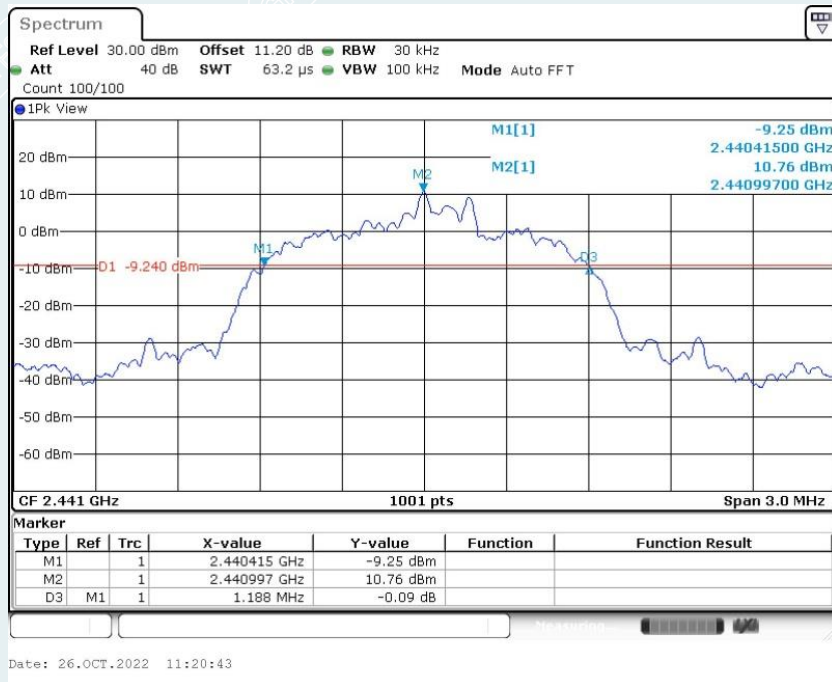


3DH5

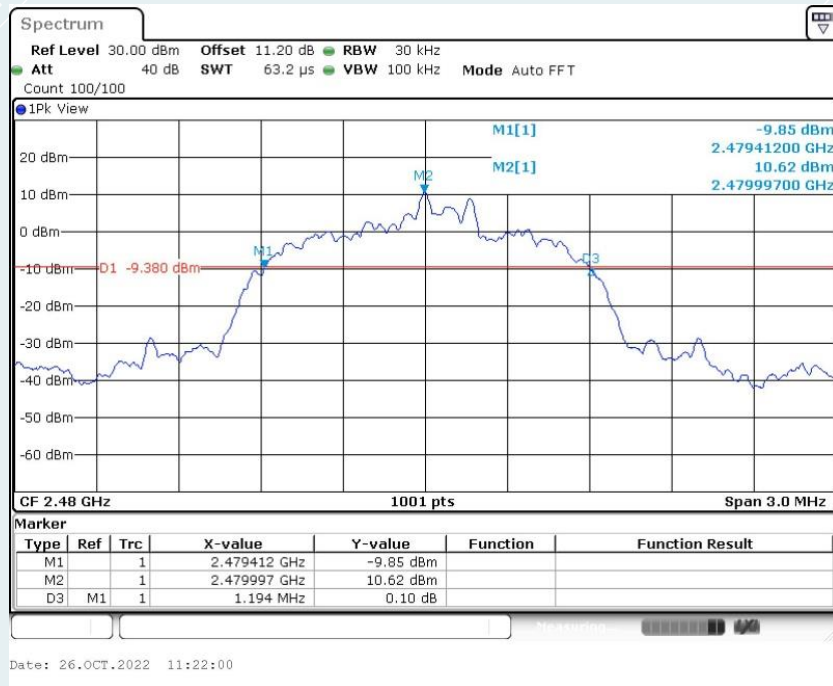
LowestChannel



Middle Channel



Highest Channel



Test result: The unit does meet the FCC requirements.

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8. CARRIER FREQUENCIES SEPARATED

8.1 LIMITS

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

8.2 TEST PROCEDURES

- 1) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2) Set center frequency of spectrum analyzer = middle of hopping channel.
- 3) Set the spectrum analyzer as RBW=300kHz, VBW=300kHz, Adjust Span to 2MHz, Sweep = auto
- 4) Use the marker-delta function to mark hopping channel carrier frequencies and record the channel separation.

8.3 TEST SETUP



8.4 TEST RESULTS

Environment: 24.2°C/48%RH/101.0kPa
Tested By: Yang Zhaoyun

Voltage: DC 3.85V
Date: 2022-10-26

Left earphone

DH5

Channel Separation (MHz)	Two-thirds of the 20 dB Bandwidth (kHz)	Channel Separation Limit	Result
1.003	692	> Two-thirds of the 20 dB Bandwidth	Pass

2DH5

Channel Separation (MHz)	Two-thirds of the 20 dB Bandwidth (kHz)	Channel Separation Limit	Result
0.997	788	> Two-thirds of the 20 dB Bandwidth	Pass

3DH5

Channel Separation (MHz)	Two-thirds of the 20 dB Bandwidth (kHz)	Channel Separation Limit	Result
0.997	796	> Two-thirds of the 20 dB Bandwidth	Pass

Right earphone**DH5**

Channel Separation (MHz)	Two-thirds of the 20 dB Bandwidth (kHz)	Channel Separation Limit	Result
1.000	692	> Two-thirds of the 20 dB Bandwidth	Pass

2DH5

Channel Separation (MHz)	Two-thirds of the 20 dB Bandwidth (kHz)	Channel Separation Limit	Result
1.000	788	> Two-thirds of the 20 dB Bandwidth	Pass

3DH5

Channel Separation (MHz)	Two-thirds of the 20 dB Bandwidth (kHz)	Channel Separation Limit	Result
1.014	796	> Two-thirds of the 20 dB Bandwidth	Pass

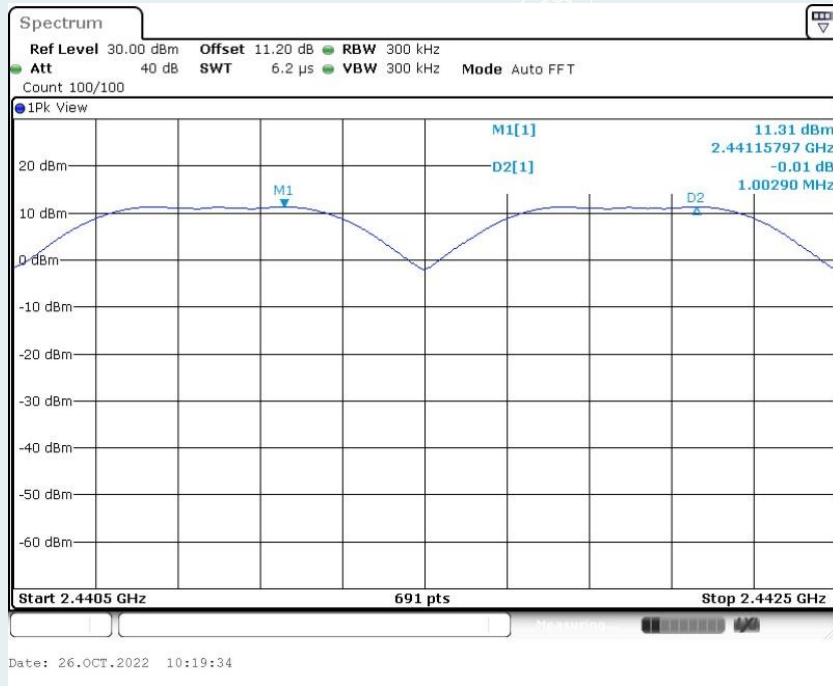
----- The following blanks -----

Left earphone

Result plot as follows:

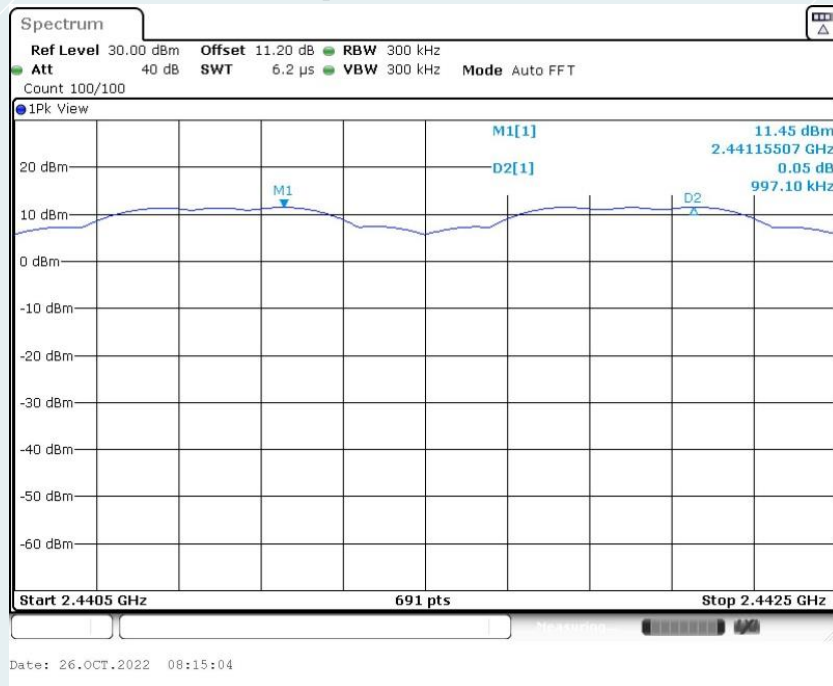
DH5

Measurement of Channel Separation



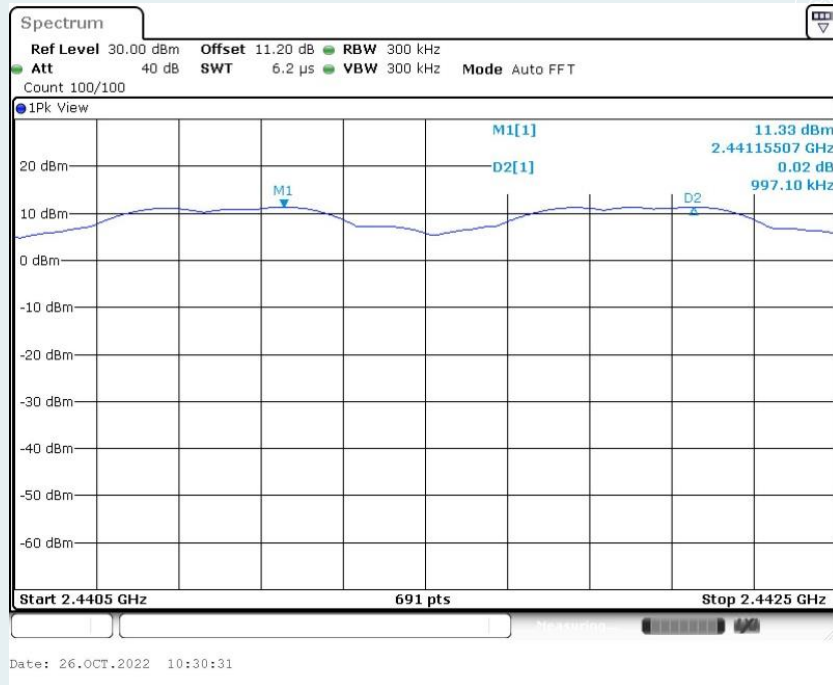
2DH5

Measurement of Channel Separation



3DH5

Measurement of Channel Separation



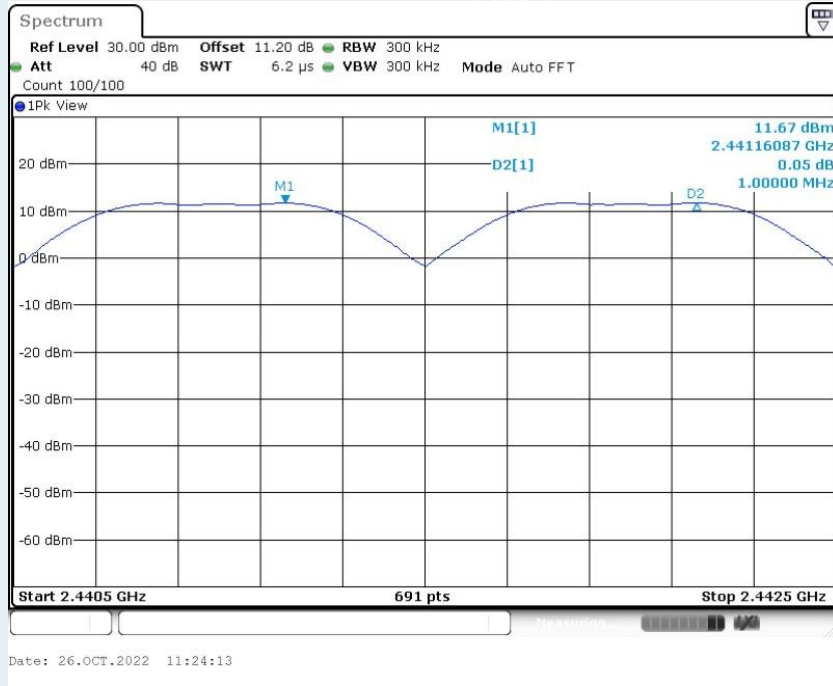
----- The following blanks -----

Right earphone

Result plot as follows:

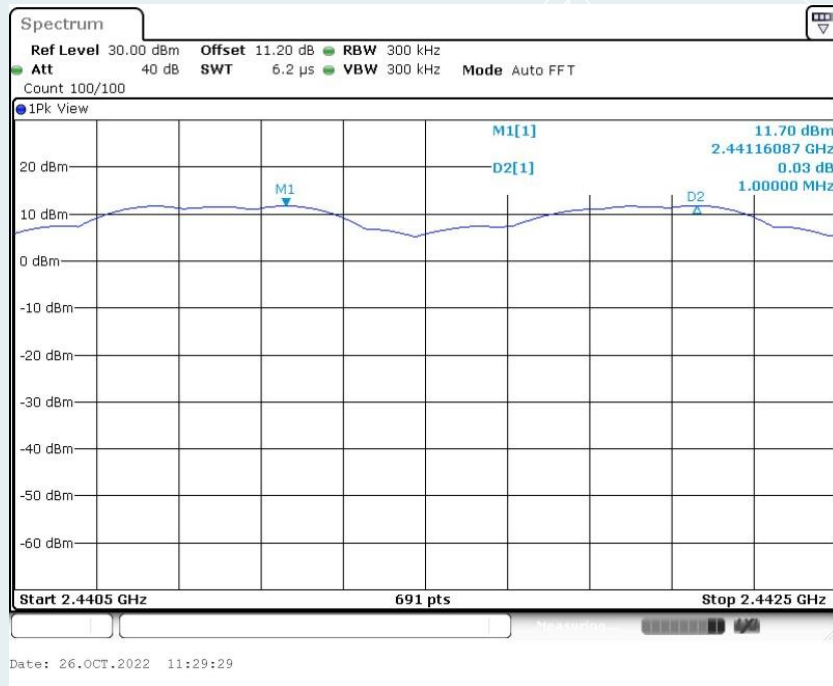
DH5

Measurement of Channel Separation



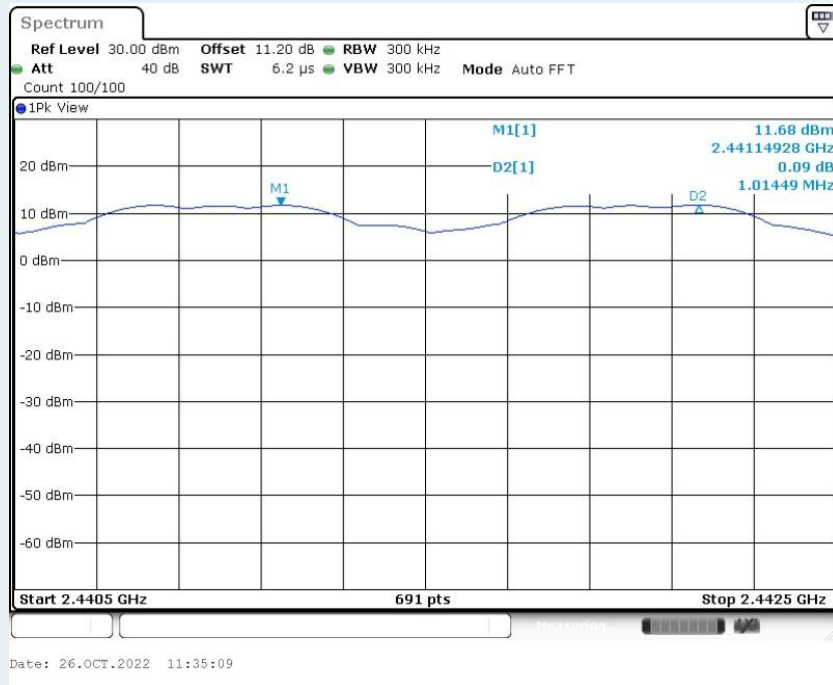
2DH5

Measurement of Channel Separation



3DH5

Measurement of Channel Separation



Test result: The unit does meet the FCC requirements.

----- The following blanks -----

9. HOPPING CHANNEL NUMBER

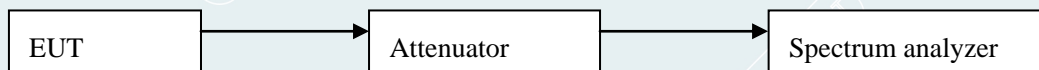
9.1 LIMITS

Regulation 15.247 (a) (1)(iii) Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels.

9.2 TEST PROCEDURES

- 1) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2) Set the spectrum analyzer as RBW=300kHz, VBW=300kHz.
- 3) Set the spectrum analyzer: start frequency = 2400MHz. stop frequency = 2483.5MHz. Submit the test result graph.

9.3 TEST SETUP



9.4 TEST RESULTS

Environment: 24.2°C/48%RH/101.0kPa
Tested By: Yang Zhaoyun

Voltage: DC 3.85V
Date: 2022-10-26

Left earphone

TestMode	Result[Num]	Limit[Num]	Verdict
GFSK	79	≥15	PASS
$\pi/4$ -DQPSK	79	≥15	PASS
8DPSK	79	≥15	PASS

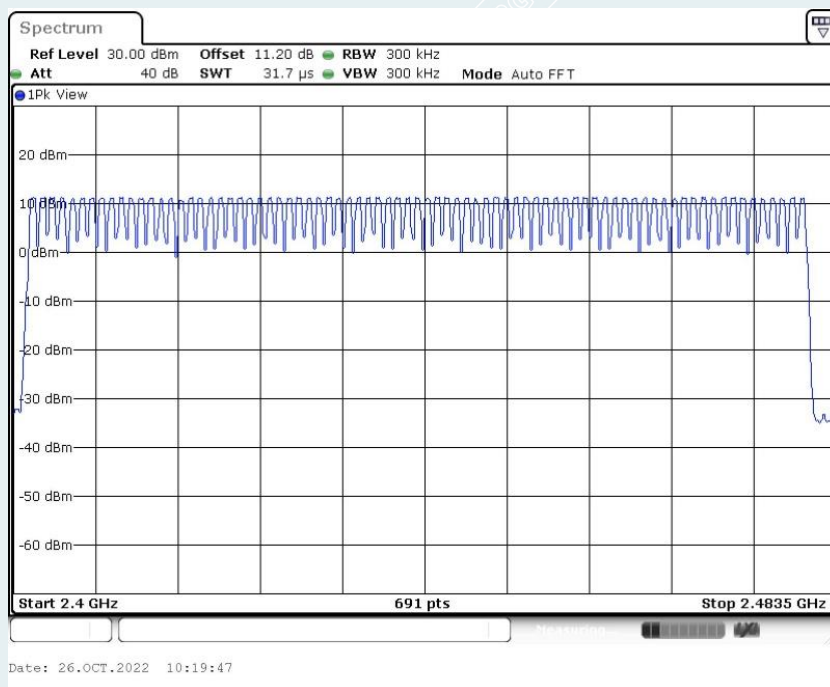
Right earphone

TestMode	Result[Num]	Limit[Num]	Verdict
GFSK	79	≥15	PASS
$\pi/4$ -DQPSK	79	≥15	PASS
8DPSK	79	≥15	PASS

Left earphone

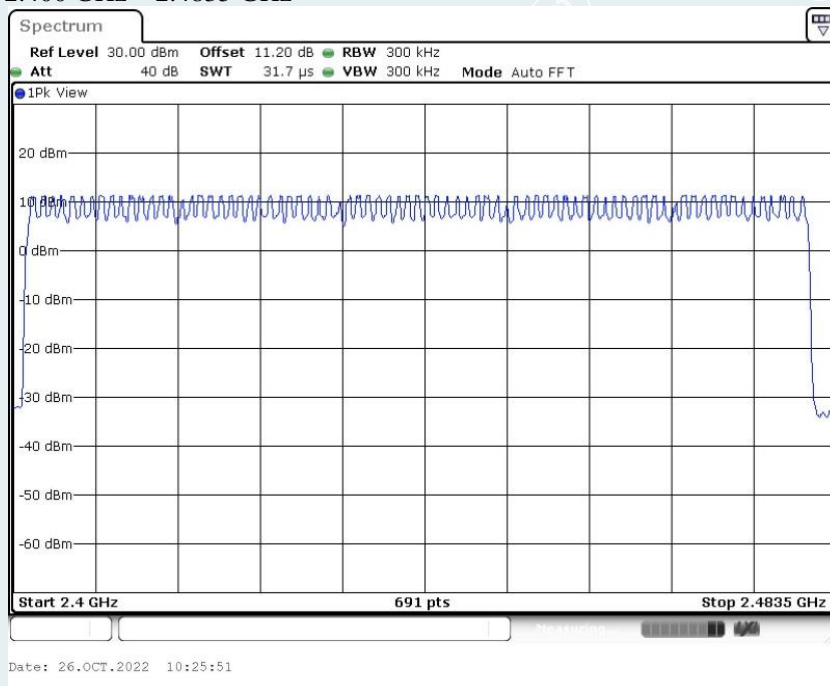
GFSK

2.400 GHz – 2.4835 GHz



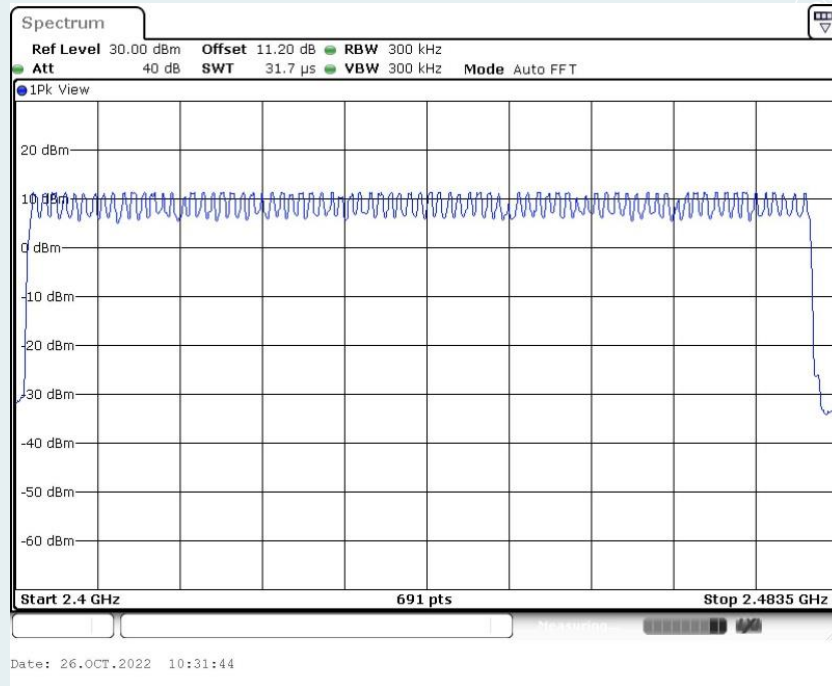
$\pi/4$ -DQPSK

2.400 GHz – 2.4835 GHz



8DPSK

2.400 GHz – 2.4835 GHz

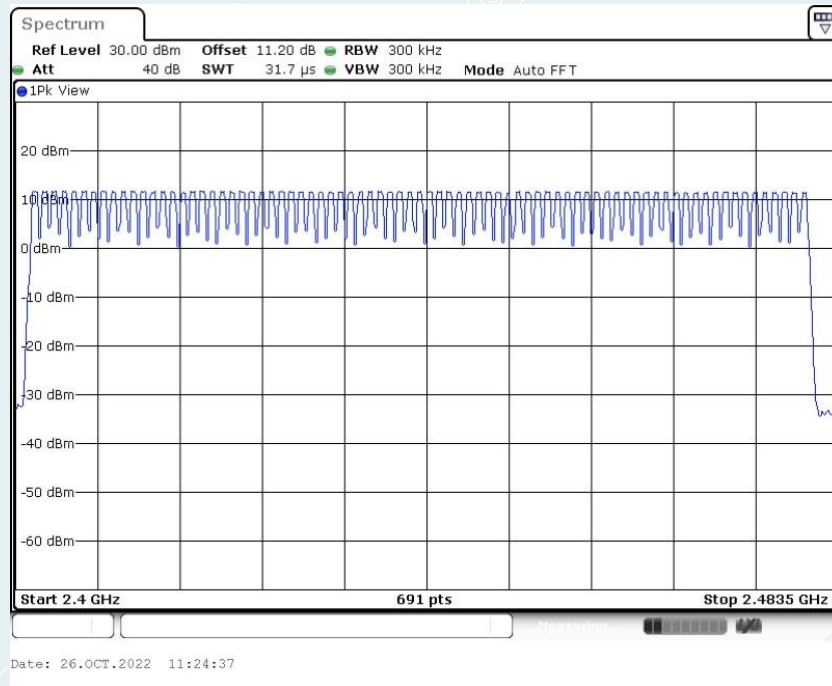


----- The following blanks -----

Right earphone

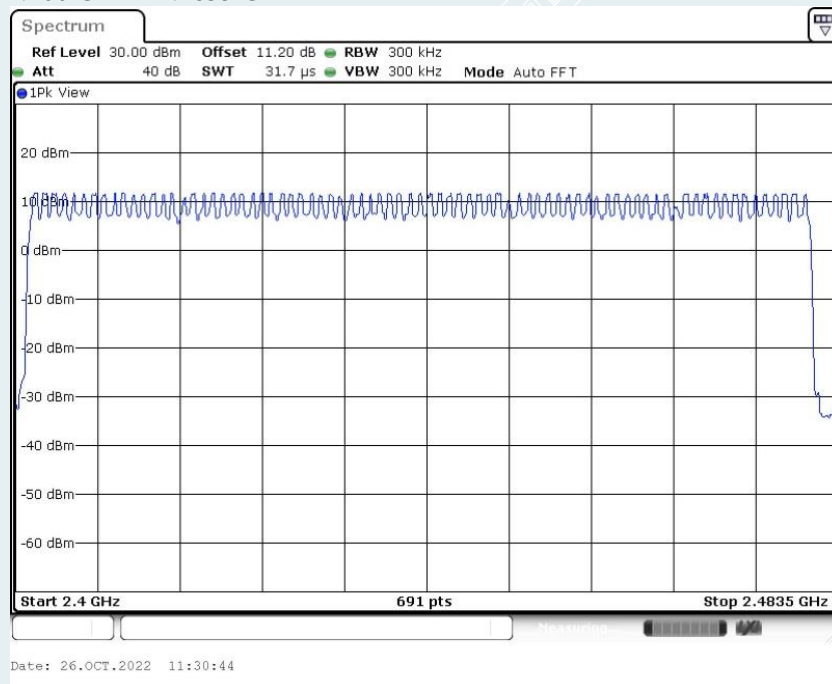
GFSK

2.400 GHz – 2.4835 GHz



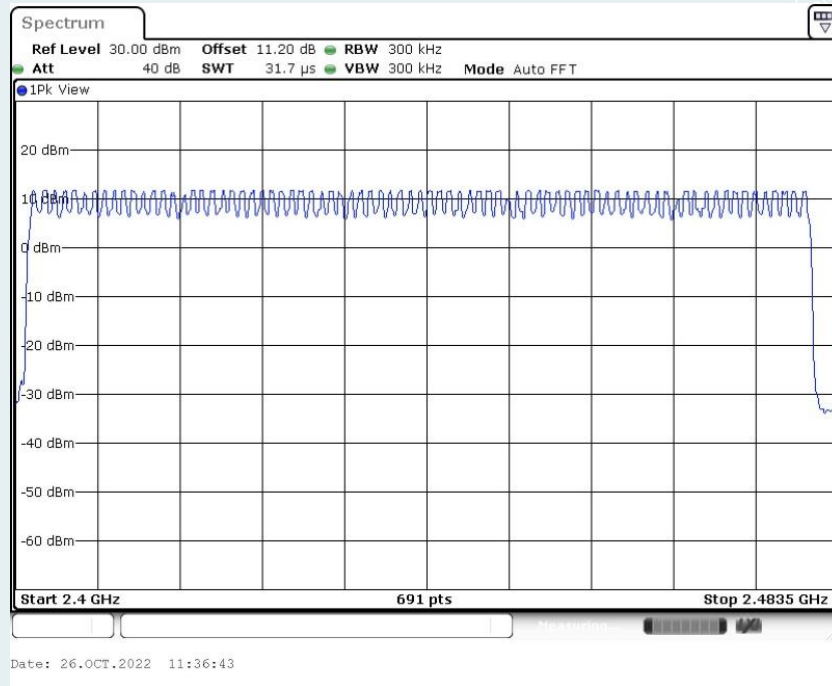
$\pi/4$ -DQPSK

2.400 GHz – 2.4835 GHz



8DPSK

2.400 GHz – 2.4835 GHz



Test result: The unit does meet the FCC requirements.

----- The following blanks -----

10. DWELL TIME

10.1 LIMITS

Regulation 15.247(a)(1)(iii) Frequency hopping systems in the 2400-2483.5MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

10.2 TEST PROCEDURES

- 1) Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2) Set spectrum analyzer span = 0. centered on a hopping channel;
- 3) Set RBW = 1MHz and VBW = 3MHz. Sweep = as necessary to capture the entire dwell time per hopping channel. Detector Function = Peak. Trace = Max hold;
- 4) Use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.). Repeat this test for each variation.
- 5) DH1 Packet permit maximum $1600 / 79 / 2 = 10.12$ hops per second in each channel (1 time slot TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $10.12 \times 31.6 = 320$ within 31.6 seconds
- 6) DH3 Packet permit maximum $1600 / 79 / 4 = 5.06$ hops per second in each channel (3 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $5.06 \times 31.6 = 160$ within 31.6 seconds
- 7) DH5 Packet permit maximum $1600 / 79 / 6 = 3.37$ hops per second in each channel (5 time slots TX, 1 time slot RX). So, the dwell time is the time duration of the pulse times $3.37 \times 31.6 = 106.6$ within 31.6 seconds

10.3 TEST SETUP



10.4 TEST RESULTS

Environment: 24.2°C/48%RH/101.0kPa
Tested By: Yang Zhaoyun

Voltage: DC 3.85V
Date: 2022-10-26

Left earphone

The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

GFSK: Middle Channel (2.441GHz)

DH1	time slot=	0.374	(ms)*	$(1600/(2*79))$	*	31.6	=	120	ms
DH3	time slot=	1.621	(ms)*	$(1600/(4*79))$	*	31.6	=	259	ms
DH5	time slot=	2.863	(ms)*	$(1600/(6*79))$	*	31.6	=	305	ms

$\pi/4$ -DQPSK: Middle Channel (2.441GHz)

2DH1	time slot=	0.383	(ms)*	$(1600/(2*79))$	*	31.6	=	123	ms
2DH3	time slot=	1.628	(ms)*	$(1600/(4*79))$	*	31.6	=	260	ms
2DH5	time slot=	2.868	(ms)*	$(1600/(6*79))$	*	31.6	=	306	ms

8DPSK: Middle Channel (2.441GHz)

3DH1	time slot=	0.384	(ms)*	$(1600/(2*79))$	*	31.6	=	123	ms
3DH3	time slot=	1.626	(ms)*	$(1600/(4*79))$	*	31.6	=	260	ms
3DH5	time slot=	2.870	(ms)*	$(1600/(6*79))$	*	31.6	=	306	ms

Right earphone

The test period: $T = 0.4 \text{ Second/Channel} \times 79 \text{ Channel} = 31.6 \text{ s}$

GFSK: Middle Channel (2.441GHz)

DH1	time slot=	0.374	(ms)*	$(1600/(2*79))$	*	31.6	=	120	ms
DH3	time slot=	1.621	(ms)*	$(1600/(4*79))$	*	31.6	=	259	ms
DH5	time slot=	2.863	(ms)*	$(1600/(6*79))$	*	31.6	=	305	ms

$\pi/4$ -DQPSK: Middle Channel (2.441GHz)

2DH1	time slot=	0.384	(ms)*	$(1600/(2*79))$	*	31.6	=	123	ms
2DH3	time slot=	1.628	(ms)*	$(1600/(4*79))$	*	31.6	=	260	ms
2DH5	time slot=	2.868	(ms)*	$(1600/(6*79))$	*	31.6	=	306	ms

8DPSK: Middle Channel (2.441GHz)

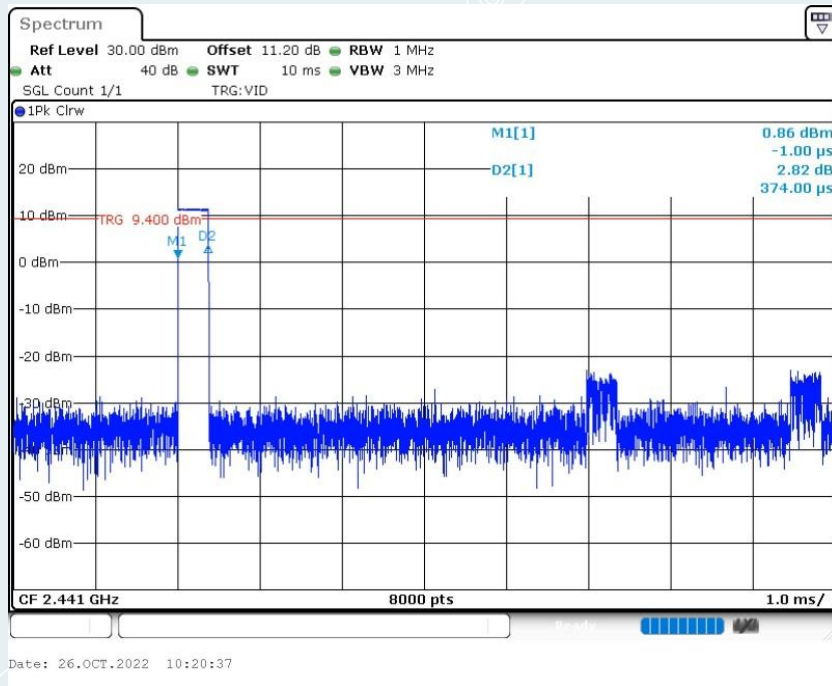
3DH1	time slot=	0.383	(ms)*	$(1600/(2*79))$	*	31.6	=	123	ms
3DH3	time slot=	1.625	(ms)*	$(1600/(4*79))$	*	31.6	=	260	ms
3DH5	time slot=	2.869	(ms)*	$(1600/(6*79))$	*	31.6	=	306	ms

**The results are not greater than 0.4 seconds.
The unit does meet the requirements.**

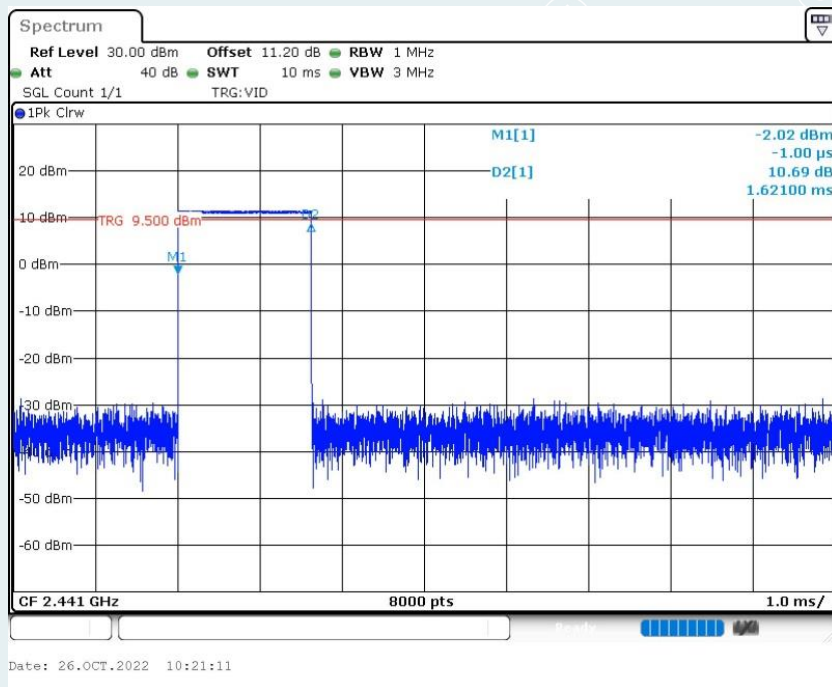
Left earphone

Please refer the graph as below:

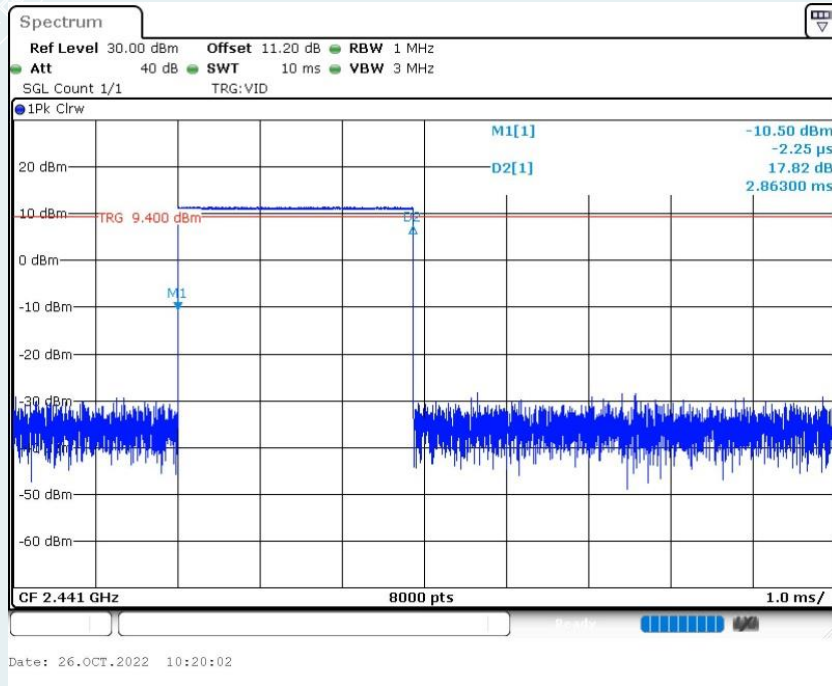
GFSK
MiddleFrequency (2.441GHz)
DH1



DH3



DH5



$\pi/4$ -DQPSK MiddleFrequency (2.441GHz) 2DH1

