

FCC Test Report

Report No.: CPSD-ESH-P25010188B-3

FCC ID: 2BRRF-H6028

Product: Wireless Speaker Led Lamp

Model: H6028A BLK, H6028A WHT, H6028B BLK, H6028B WHT, NCH6028 BLK, NCH6028 WHT, YH6028 BLK, YH6028 WHT

Received Date: Jan.07, 2024

Test Date: Jan.07 to Feb.24, 2025

Issued Date: Feb.25, 2025

Applicant: Enchante Accessories

Address: 16 East 34th Street ,3rd Fl New York , NY 10016

Manufacturer: Ningbo Beslight exp & imp, Co., LTD

Address: No 239 Wangshan Road, JiangBei,NingBo,ZheJiang,China

Issued By: BUREAU VERITAS ADT (Shanghai) Corporation

Address: No. 829, Xinzhuan Road, Shanghai, P.R.China (201612)



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Release Control Record

Issue No.	Description	Date Issued
CPSD-ESH-P25010188B-3	Original release	Feb.25, 2025

1 Certificate of Conformity

Product: Wireless Speaker Led Lamp

Brand: --

Model: H6028A BLK, H6028A WHT, H6028B BLK, H6028B WHT, NCH6028 BLK, NCH6028 WHT, YH6028 BLK, YH6028 WHT

Applicant: Enchante Accessories

Test Date: Jan.07 to Feb.24, 2025

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.247)
ANSI C63.10:2020

The above equipment has been tested by **BUREAU VERITAS ADT (Shanghai) Corporation**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Prepared by :

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, Date:

Feb.25, 2025

Yuan ZHANG

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Approved by :

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, Date:

Feb.25, 2025

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RF Supervisor

2 Summary of Test Results

The EUT has been tested according to the following specifications:

47 CFR FCC Part 15, Subpart C (SECTION 15.247)			
FCC Clause	Test Item	Result	Remarks
15.203	Antenna Requirement	PASS	No antenna connector is used.
15.207	AC Power Conducted Emission	PASS	Meet the requirement of limit.
15.247(a) (1)	20dB Bandwidth	PASS	Meet the requirement of limit.
15.247(b)	Conducted Peak Output Power	PASS	Meet the requirement of limit.
15.247(a)(1)	Carrier Frequency Separation	PASS	Meet the requirement of limit.
15.247(a)(1)(iii)	Number of Hopping Frequencies	PASS	Meet the requirement of limit.
15.247(a)(1)(iii)	Dwell Time	PASS	Meet the requirement of limit.
15.247(d)	Conducted Band Edges Measurement	PASS	Meet the requirement of limit.
15.247(d)	Conducted Spurious Emissions	PASS	Meet the requirement of limit.
15.247(d)	Emissions in restricted frequency bands	PASS	Meet the requirement of limit.
15.205 / 15.209 / 15.247(d)	Radiated Emissions	PASS	Meet the requirement of limit.

2.1 Test Instruments

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Loop Antenna	ETS-LINDGREN	6502	E1A1039	Jul.30,24	Jul.29,26
Hybrid Antenna(25MHz-1.5GHz)	Schwarzbeck	VULB9168	E1A1001	Mar.28,24	Mar.27,26
Horn Antenna(1GHz -18GHz)	Schwarzbeck	BBHA9120D	E1A1017	Jul.31,24	Jul.30,26
Double Ridge Horn Antenna(18G-40G)	COM-POWER	AH-840	E1A1040	Jul.31,24	Jul.30,26
Pre-Amplifier(100kHz-1.3GHz)	Agilent	8447D	E1A2001	Feb.17,25	Feb.16,26
Pre-Amplifier(0.5GHz-18GHz)	EMCI	EMC184045SE	E1A2009	Jul.02,24	Jul.01,25
Pre-Amplifier(18GHz-40GHz)	EMCI	EMC051845SE	E1A2008	Aug.15,24	Aug.14,25
EMI test receiver	R&S	ESR26	E1R1009	Sep.03,24	Sep.02,25
Spectrum Analyzer	Keysight	N9030B	E1S1003	Aug.28,24	Aug.27,25
Spectrum Analyzer	Keysight	N9020A	E1S1004	Feb.18,25	Feb.17,26
EMI test receiver	R&S	ESR3	E1R1008	May.31,24	May.30,25
LISN	R&S	ENV216	E1L1013	Aug.12, 24	Aug.11, 25
Humidity&Temp Tester	ESPEC	SE TH-Z-042U	C1TH002	Jun.04,24	Jun.03,25
RF Control Unit	Toscend	JS0806-2	E1C5003	N/A	N/A
Test Software	Toscend	JS32-CE	N/A	N/A	N/A
Test Software	Toscend	JS32-RE	N/A	N/A	N/A
Test Software	Toscend	JS1120	N/A	N/A	N/A
Test Software	Toscend	JS1120-3	N/A	N/A	N/A

2.2 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Measurement	Frequency	Expanded uncertainty ($k=2$) ($\pm$)
AC Power line conducted emissions	150kHz ~ 30MHz	2.56 dB
Radiated Emissions up to 1 GHz	30MHz ~ 1GHz	4.86 dB
Radiated Emissions above 1 GHz	Above 1GHz	4.96 dB

2.3 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Wireless Speaker Led Lamp
Brand	--
Model	H6028A BLK, H6028A WHT, H6028B BLK, H6028B WHT, NCH6028 BLK, NCH6028 WHT, YH6028 BLK, YH6028 WHT
Difference	All models are same except appearance and model name.
Power Rating	5Vdc, 1A
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8DPSK
Modulation Technology	BT-BDR, BT-EDR
Operating Frequency	2402MHz ~ 2480MHz
Number of Channel	79
Output Power	5.50dBm
Antenna Type	PCB Antenna
Antenna Connector	--
Antenna Gain	2.57dBi

Note:

1. For more details, please refer to the User's manual of the EUT.

3.2 Description of Test Modes

79 channels are provided for BT-EDR mode:

Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)	Channel	Freq. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

3.2.1 Test Mode Applicability:

EUT Configure Mode	Applicable to				Description
	RE ≥ 1G	RE < 1G	PLC	APCM	
-	√	√	√	√	-

Where **RE≥1G**: Radiated Emission above 1GHz

RE≤1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

Radiated Emission Test (Above 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	0, 39, 78	FHSS	GFSK	DH5
-	0 to 78	0, 39, 78	FHSS	$\pi/4$ -DQPSK	2DH5
-	0 to 78	0, 39, 78	FHSS	8DPSK	3DH5

Radiated Emission Test (Below 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	78	FHSS	GFSK	DH5

Power Line Conducted Emission Test:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	78	FHSS	$\pi/4$ -DQPSK	DH5

Antenna Port Conducted Measurement

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	0, 39, 78	FHSS	GFSK	DH5
-	0 to 78	0, 39, 78	FHSS	$\pi/4$ -DQPSK	2DH5
-	0 to 78	0, 39, 78	FHSS	8DPSK	3DH5

3.2.2 Test Condition:

Applicable to	Normal Environmental Conditions	Normal Input Power
RE $\geq$ 1G	23deg. C, 58%RH	AC 120V 60Hz
RE < 1G	23deg. C, 58%RH	AC 120V 60Hz
PLC	22deg. C, 54%RH	Powered by battery
APCM	25deg. C, 60%RH	AC 120V 60Hz, AC 230V 50Hz

3.3 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units.

3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standard:

FCC Part 15, Subpart C (15.247)

FCC DA 00705

ANSI C63.10:2020

All relaxed test items have been performed and recorded as per the above standard.

4 Test Procedure and Results

4.1 AC Power Conducted Emission Measurement

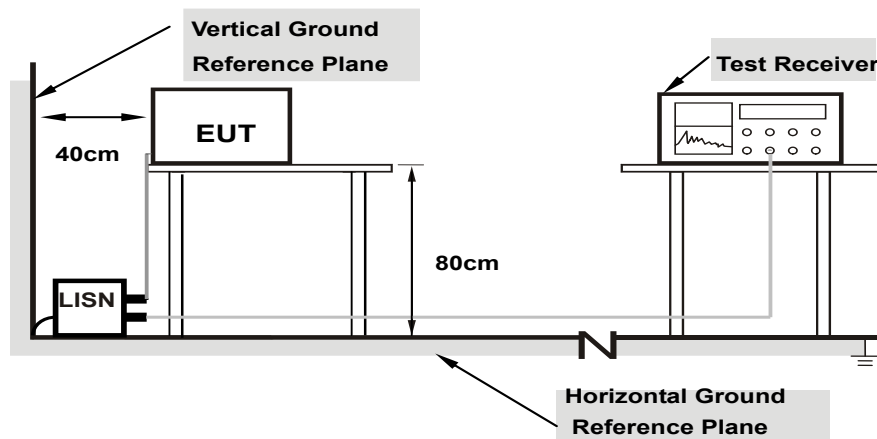
4.1.1 Limit

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.1.2 Test Setup



Note: 1. Support units were connected to second LISN.

4.1.3 Test Procedures

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

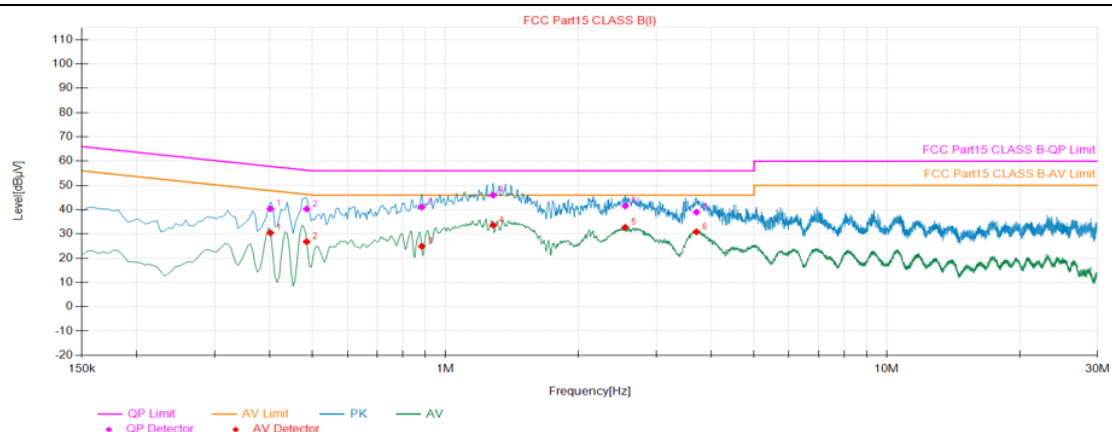
NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.1.4 Deviation of Test Standard

No deviation.

4.1.5 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Power supply	AC 120V, 60Hz		



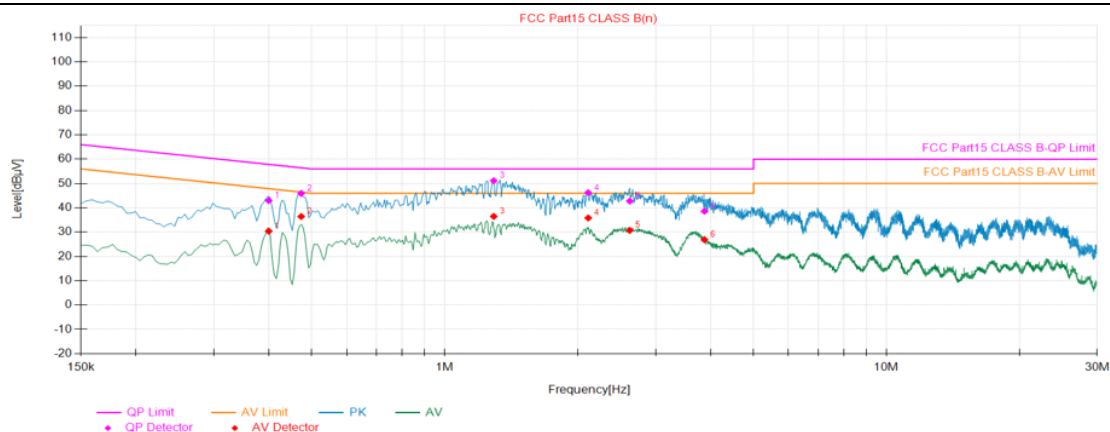
Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.40	9.48	30.87	40.35	57.83	17.48	20.95	30.43	47.83	17.40
2	0.48	9.50	30.75	40.25	56.26	16.01	17.27	26.77	46.26	19.49
3	0.88	9.38	31.70	41.08	56.00	14.92	15.50	24.88	46.00	21.12
4	1.28	9.46	36.53	45.99	56.00	10.01	24.15	33.61	46.00	12.39
5	2.55	9.62	31.90	41.52	56.00	14.48	23.06	32.68	46.00	13.32
6	3.70	9.64	29.34	38.98	56.00	17.02	21.20	30.84	46.00	15.16

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Power supply	AC 120V, 60Hz		



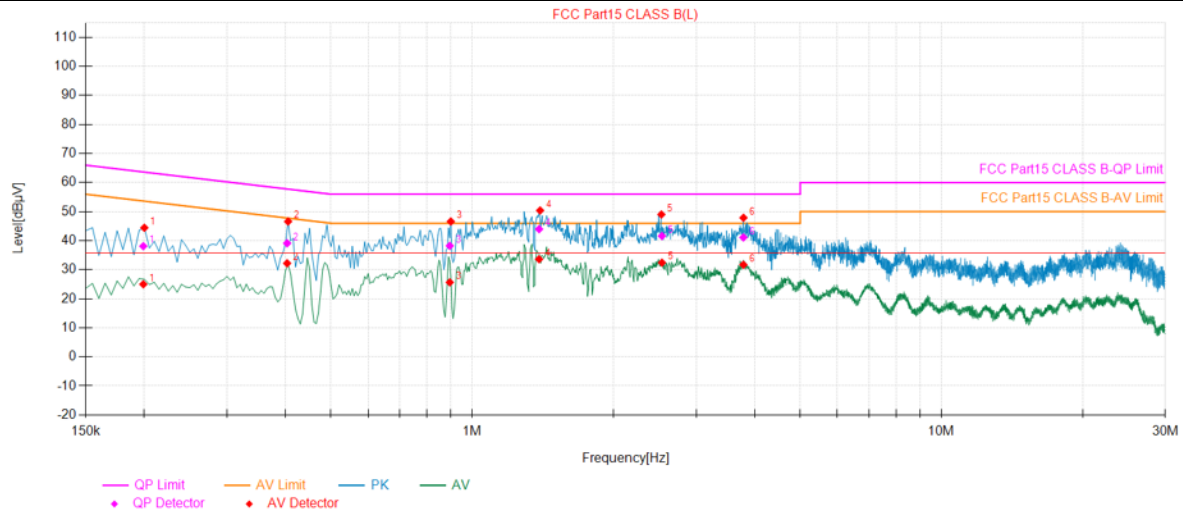
Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.40	9.50	33.47	42.97	57.87	14.90	20.88	30.38	47.87	17.49
2	0.47	9.48	36.45	45.93	56.46	10.53	26.93	36.41	46.46	10.05
3	1.29	9.48	41.67	51.15	56.00	4.85	26.99	36.47	46.00	9.53
4	2.11	9.62	36.59	46.21	56.00	9.79	26.19	35.81	46.00	10.19
5	2.62	9.67	33.07	42.74	56.00	13.26	21.03	30.70	46.00	15.30
6	3.87	9.66	28.91	38.57	56.00	17.43	17.22	26.88	46.00	19.12

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Power supply	AC 230V, 50Hz		



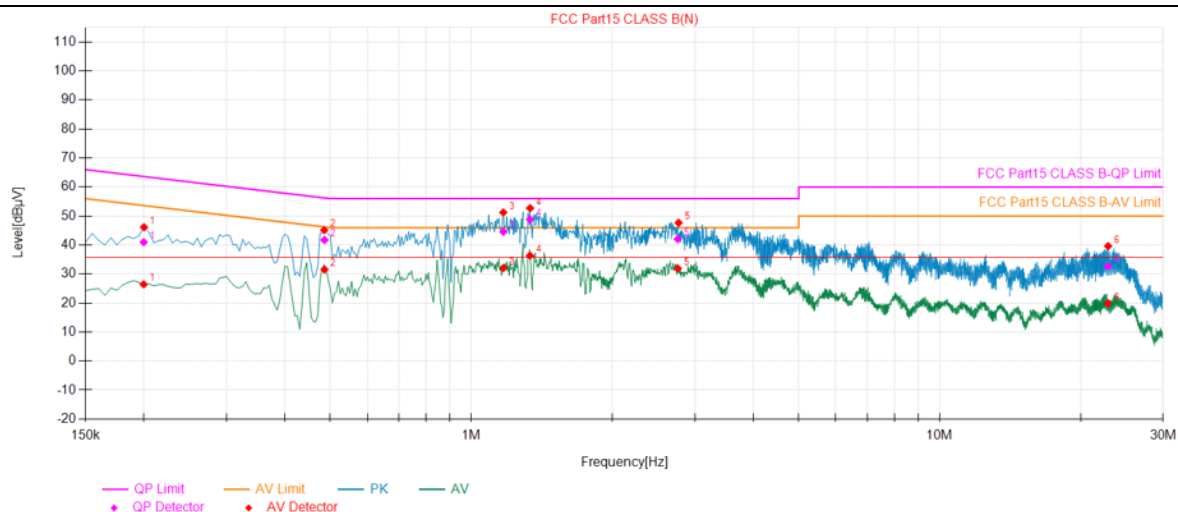
Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.20	9.79	28.32	38.11	63.65	25.54	15.20	24.99	53.65	28.66
2	0.40	9.58	29.52	39.10	57.79	18.69	22.64	32.22	47.79	15.57
3	0.90	9.48	28.75	38.23	56.00	17.77	16.18	25.66	46.00	20.34
4	1.39	9.60	34.38	43.98	56.00	12.02	24.03	33.63	46.00	12.37
5	2.54	9.70	31.90	41.60	56.00	14.40	22.73	32.43	46.00	13.57
6	3.78	9.78	31.33	41.11	56.00	14.89	21.92	31.70	46.00	14.30

REMARKS:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Power supply	AC 230V, 50Hz		



Final Data List

NO.	Freq. [MHz]	Factor [dB]	QP Reading [dBμV]	QP Value [dBμV]	QP Limit [dBμV]	QP Margin [dB]	AV Reading [dBμV]	AV Value [dBμV]	AV Limit [dBμV]	AV Margin [dB]
1	0.20	9.77	31.20	40.97	63.62	22.65	16.67	26.44	53.62	27.18
2	0.49	9.57	32.18	41.75	56.24	14.49	21.99	31.56	46.24	14.68
3	1.17	9.57	35.01	44.58	56.00	11.42	22.51	32.08	46.00	13.92
4	1.33	9.60	39.24	48.84	56.00	7.16	26.74	36.34	46.00	9.66
5	2.76	9.73	32.33	42.06	56.00	13.94	22.17	31.90	46.00	14.10
6	22.88	10.08	22.59	32.67	60.00	27.33	9.77	19.85	50.00	30.15

REMARKS:

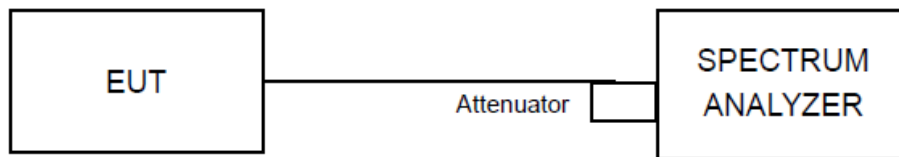
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

4.2 20dB Bandwidth

4.2.1 Limit

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dB bandwidth of hopping channel shall be a minimum limit for the hopping channel separation.

4.2.2 Test Setup



4.2.3 Test Procedures

- Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- Repeat above procedures until all frequencies measured were complete.

4.2.4 Deviation of Test Standard

No deviation.

4.2.5 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

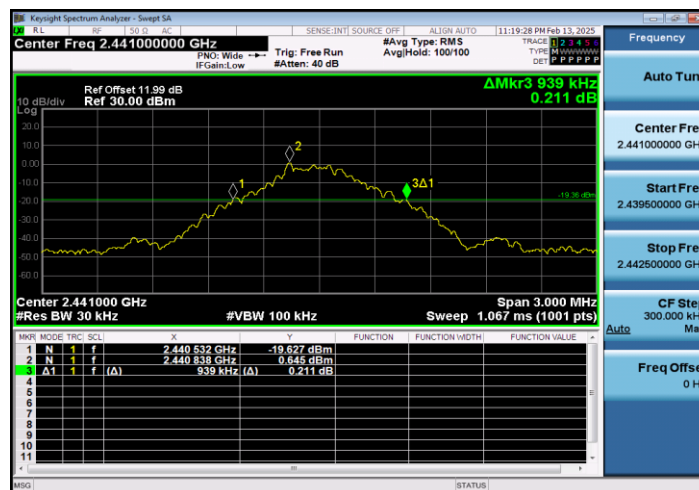
4.2.6 Test Results

Test Mode	Antenna	Channel [MHz]	20dB EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
DH5	Ant1	2402	0.948	2401.532	2402.480	---	PASS
		2441	0.939	2440.532	2441.471	---	PASS
		2480	0.957	2479.520	2480.477	---	PASS
2DH5	Ant1	2402	1.290	2401.364	2402.654	---	PASS
		2441	1.317	2440.331	2441.648	---	PASS
		2480	1.332	2479.325	2480.657	---	PASS
3DH5	Ant1	2402	1.287	2401.352	2402.639	---	PASS
		2441	1.278	2440.358	2441.636	---	PASS
		2480	1.326	2479.334	2480.660	---	PASS

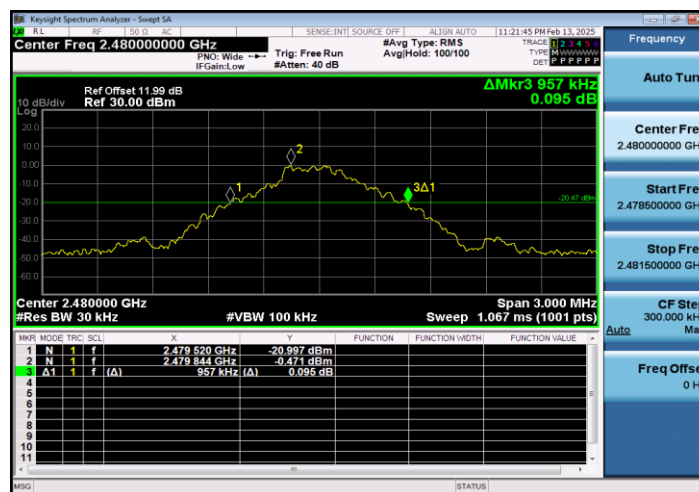
DH5_Ant1_2402



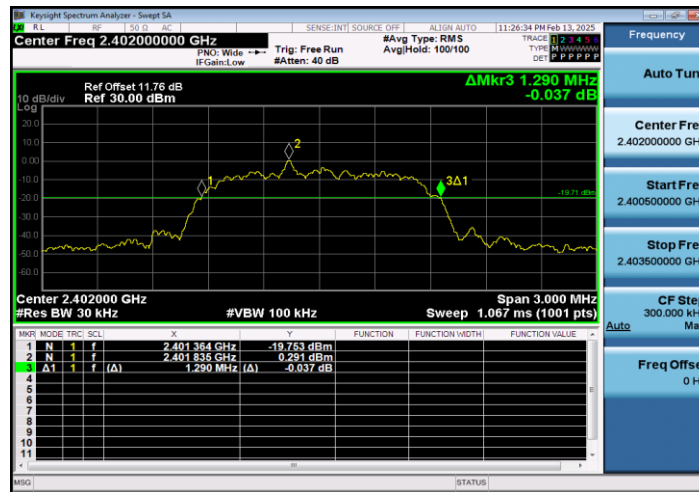
DH5_Ant1_2441



DH5_Ant1_2480



2DH5_Ant1_2402



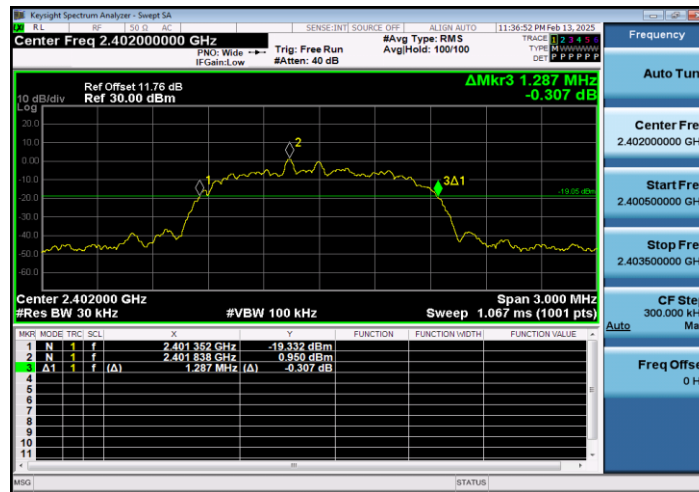
2DH5_Ant1_2441



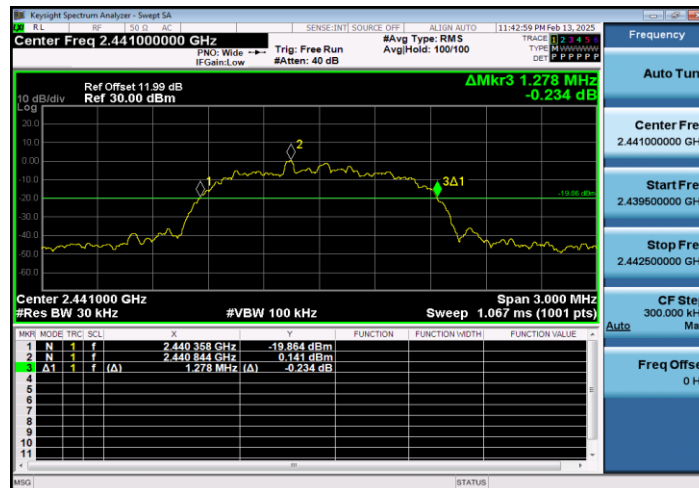
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

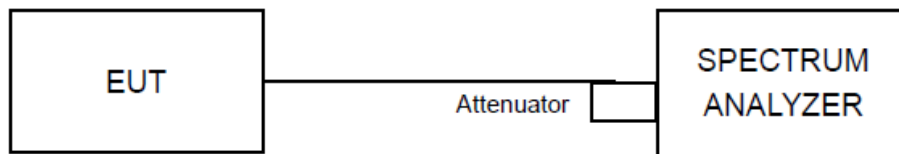


4.3 Conducted Peak Output Power

4.3.1 Limit

The Maximum Output Power Measurement is 125mW(21dBm).

4.3.2 Test Setup



4.3.3 Test Procedures

- 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- 2) RBW > 20 dB bandwidth of the emission being measured.
- 3) VBW $\geq$ RBW.
- 4) Sweep: No faster than coupled (auto) time.
- 5) Detector function: Peak.
- 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e) A plot of the test results and setup description shall be included in the test report.

4.3.4 Deviation of Test Standard

No deviation.

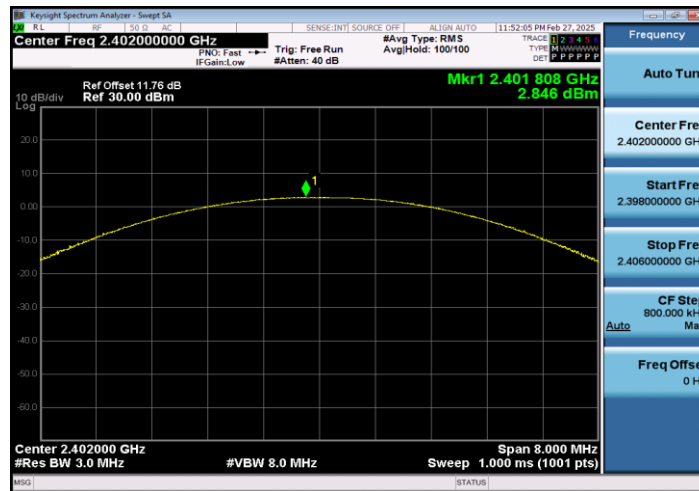
4.3.5 EUT Operating Condition

The software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel frequencies individually.

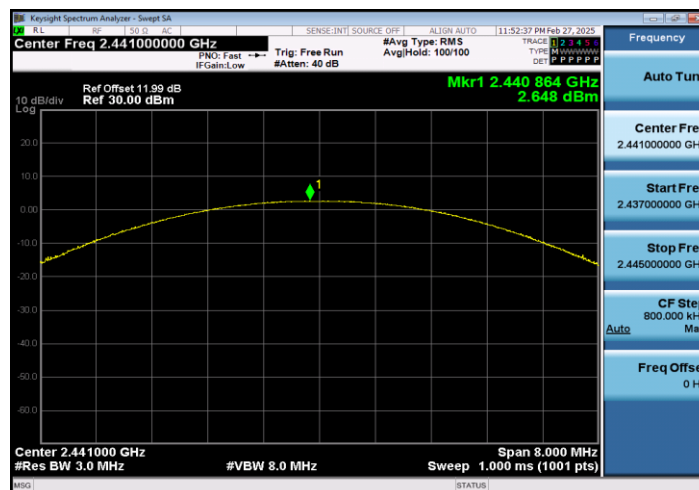
4.3.6 Test Results

Test Mode	Antenna	Channel [MHz]	Power [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	2.85	≤ 20.97	PASS
		2441	2.65	≤ 20.97	PASS
		2480	2.67	≤ 20.97	PASS
2DH5	Ant1	2402	4.98	≤ 20.97	PASS
		2441	4.75	≤ 20.97	PASS
		2480	4.68	≤ 20.97	PASS
3DH5	Ant1	2402	5.50	≤ 20.97	PASS
		2441	5.27	≤ 20.97	PASS
		2480	5.18	≤ 20.97	PASS

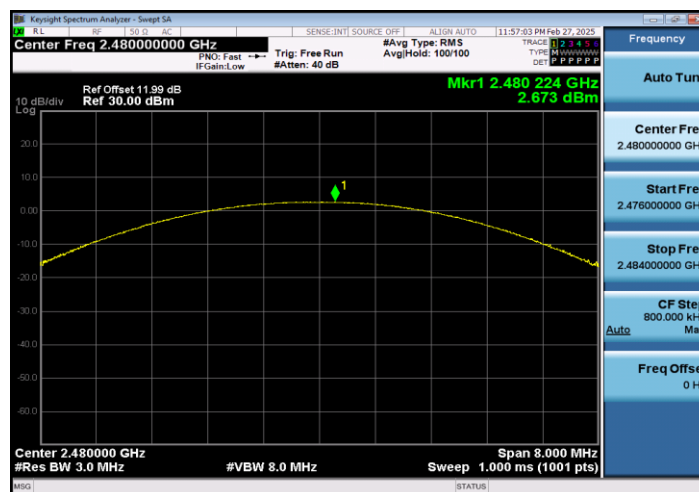
DH5_Ant1_2402



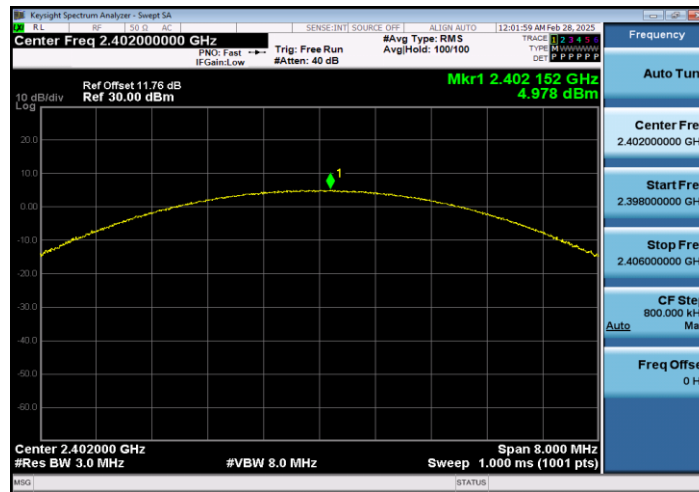
DH5_Ant1_2441



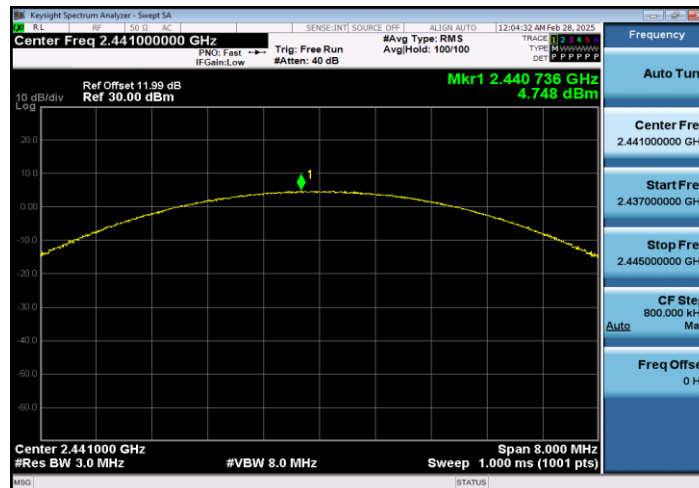
DH5_Ant1_2480



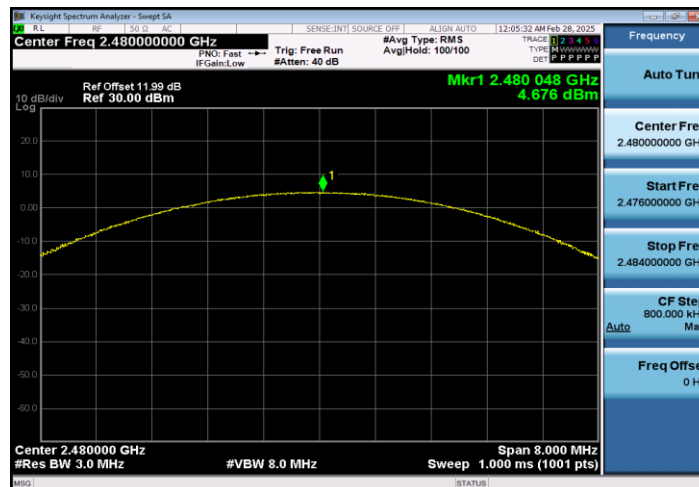
2DH5_Ant1_2402



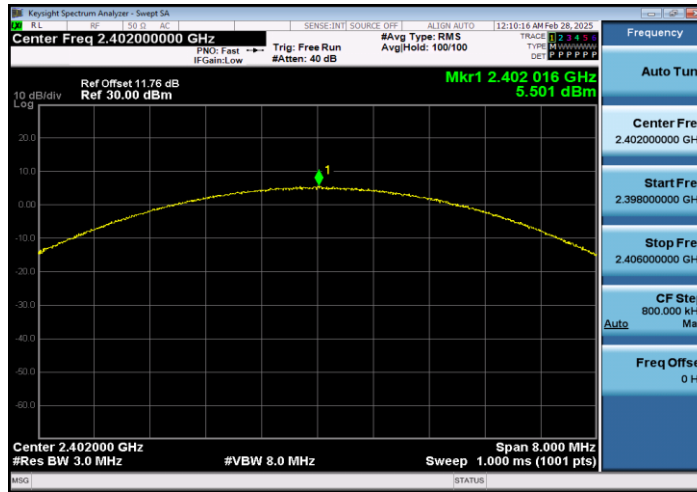
2DH5_Ant1_2441



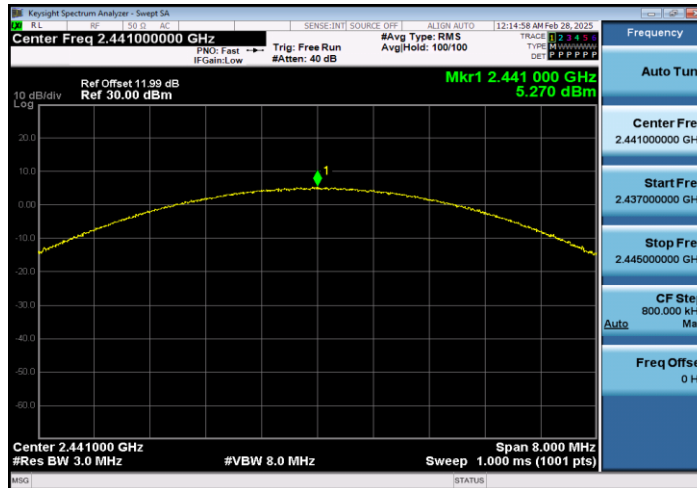
2DH5_Ant1_2480



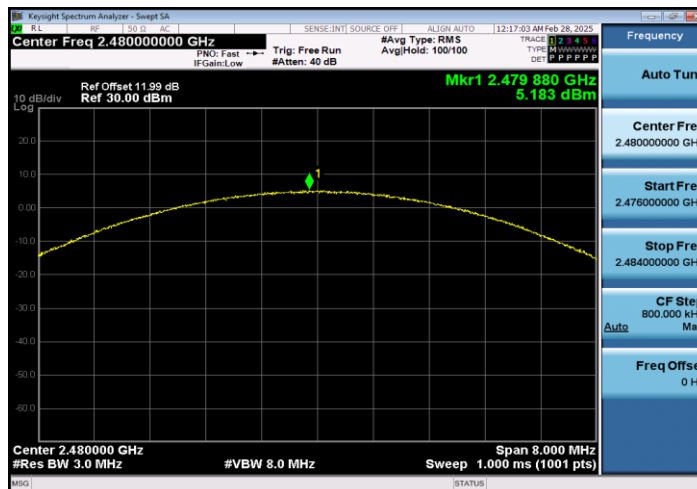
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480

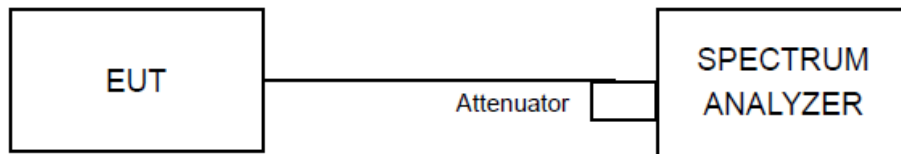


4.4 Carrier Frequency Separation

4.4.1 Limit

At least 25kHz or two-third of 20dB hopping channel bandwidth (whichever is greater)

4.4.2 Test Setup



4.4.3 Test Procedures

- 1) Span: Wide enough to capture the peaks of two adjacent channels.
- 2) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- 3) Video (or average) bandwidth (VBW) $\geq$ RBW.
- 4) Sweep: No faster than coupled (auto) time.
- 5) Detector function: Peak.
- 6) Trace: Max-hold.
- 7) Allow the trace to stabilize.

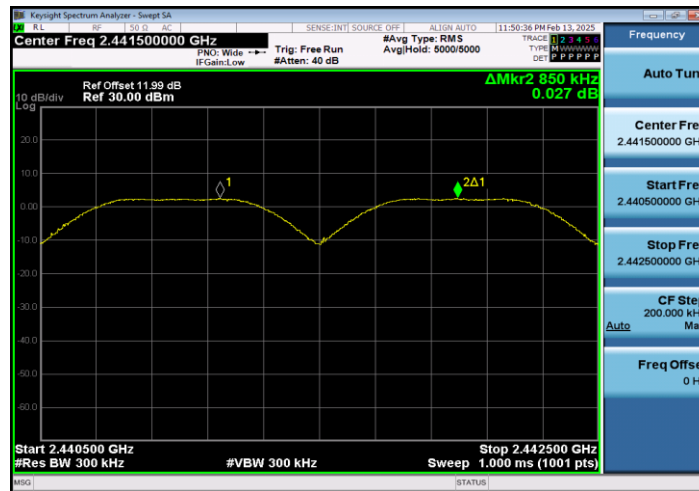
4.4.4 Deviation of Test Standard

No deviation.

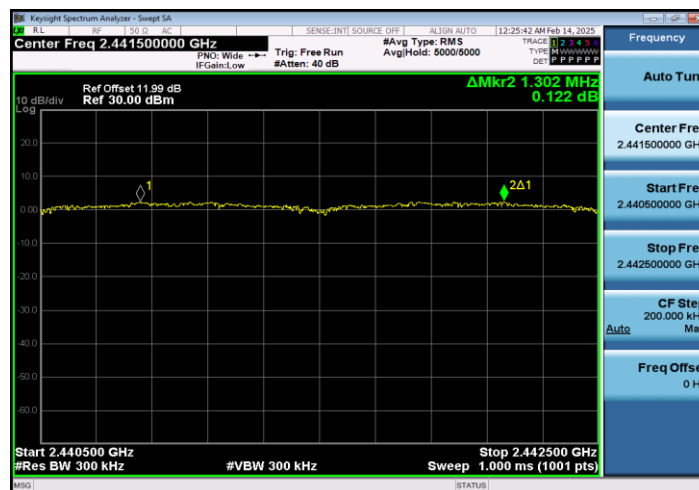
4.4.5 Test Results

Test Mode	Antenna	Channel [MHz]	Result [MHz]	Limit [MHz]	Verdict
DH5	Ant1	Hop	0.85	≥ 0.638	PASS
2DH5	Ant1	Hop	1.302	≥ 0.888	PASS
3DH5	Ant1	Hop	0.97	≥ 0.884	PASS

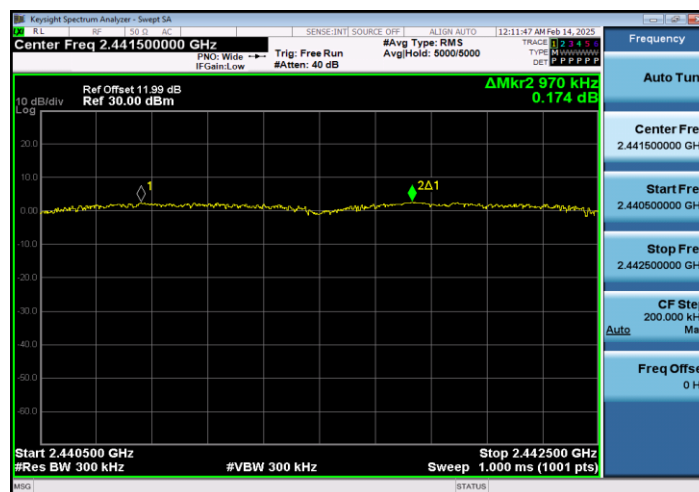
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

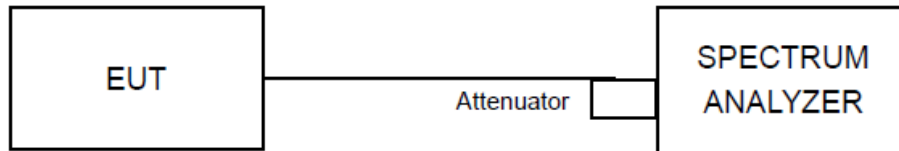


4.5 Number of Hopping Frequencies

4.5.1 Limit

At least 15 channels frequencies, and should be equally spaced.

4.5.2 Test Setup



4.5.3 Test Procedures

- 1) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- 2) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- 3) VBW $\geq$ RBW.
- 4) Sweep: No faster than coupled (auto) time.
- 5) Detector function: Peak.
- 6) Trace: Max-hold.
- 7) Allow the trace to stabilize.

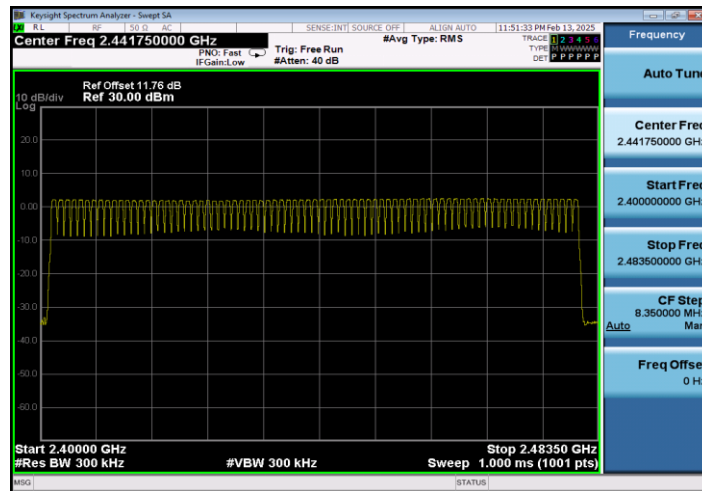
4.5.4 Deviation of Test Standard

No deviation.

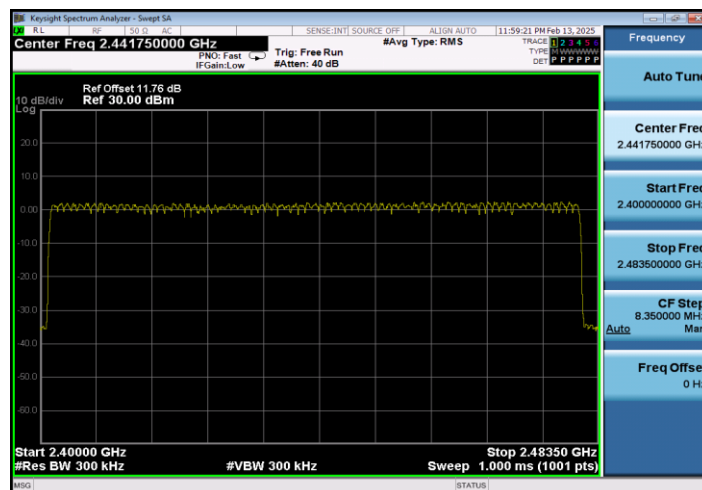
4.5.5 Test Results

Test Mode	Antenna	Number of Hopping Frequencies [N]	Limit	Verdict
DH5	Ant1	79	≥ 15	PASS
2DH5	Ant1	79	≥ 15	PASS
3DH5	Ant1	79	≥ 15	PASS

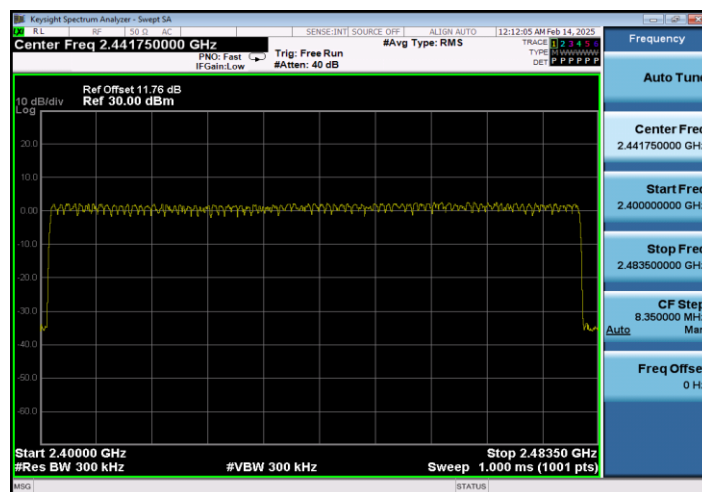
DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop

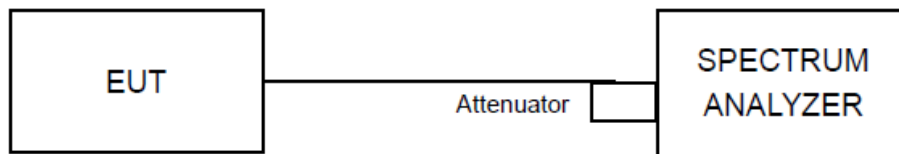


4.6 Dwell Time

4.6.1 Limit

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.

4.6.2 Test Setup



4.6.3 Test Procedures

- 1) Span: Zero span, centered on a hopping channel.
- 2) RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1/T$, where T is the expected transmission time per hop.
- 3) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = $1/\text{hopping rate}$) should achieve this.
- 4) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
- 5) Detector function: Peak.
- 6) Trace: Clear-write, single sweep.
- 7) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

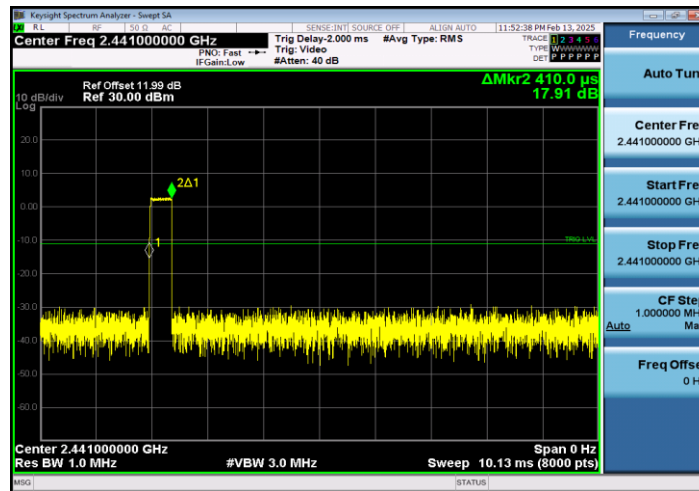
4.6.4 Deviation of Test Standard

No deviation.

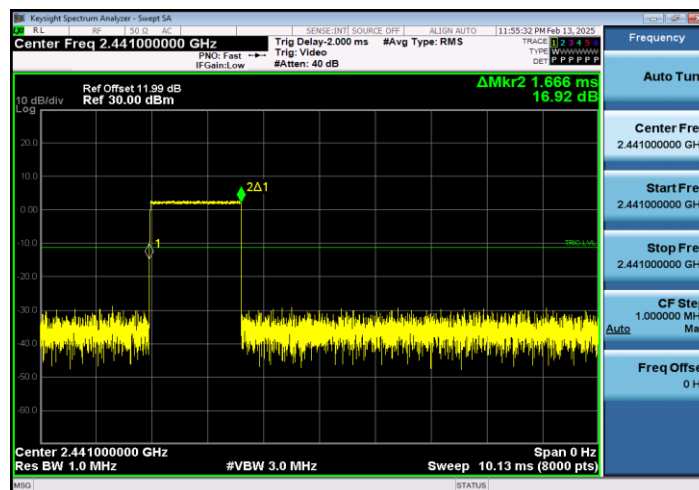
4.6.5 Test Results

Test Mode	Antenna	Channel [MHz]	BurstWidth [ms/hop/ch]	TotalHops [hop*ch]	Dwell Time [s]	Limit [s]	Verdict
DH1	Ant1	Hop	0.410	320	0.131	≤ 0.4	PASS
DH3	Ant1	Hop	1.666	160	0.267	≤ 0.4	PASS
DH5	Ant1	Hop	2.915	106.67	0.311	≤ 0.4	PASS
2DH1	Ant1	Hop	0.419	320	0.134	≤ 0.4	PASS
2DH3	Ant1	Hop	1.673	160	0.268	≤ 0.4	PASS
2DH5	Ant1	Hop	2.920	106.67	0.311	≤ 0.4	PASS
3DH1	Ant1	Hop	0.422	320	0.135	≤ 0.4	PASS
3DH3	Ant1	Hop	1.672	160	0.268	≤ 0.4	PASS
3DH5	Ant1	Hop	2.922	106.67	0.312	≤ 0.4	PASS

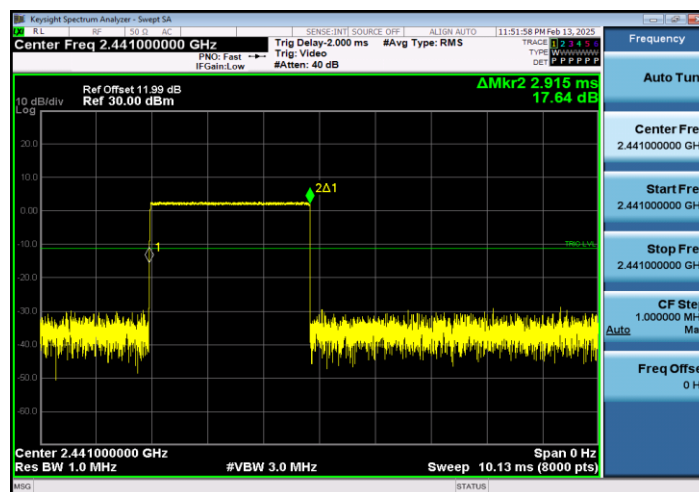
DH1_Ant1_Hop



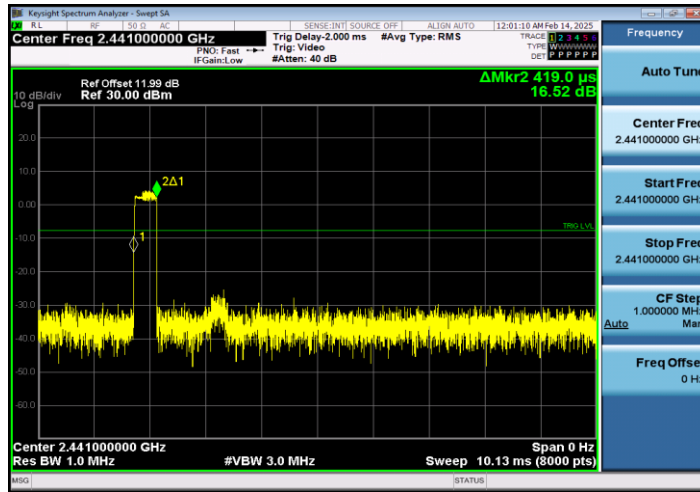
DH3_Ant1_Hop



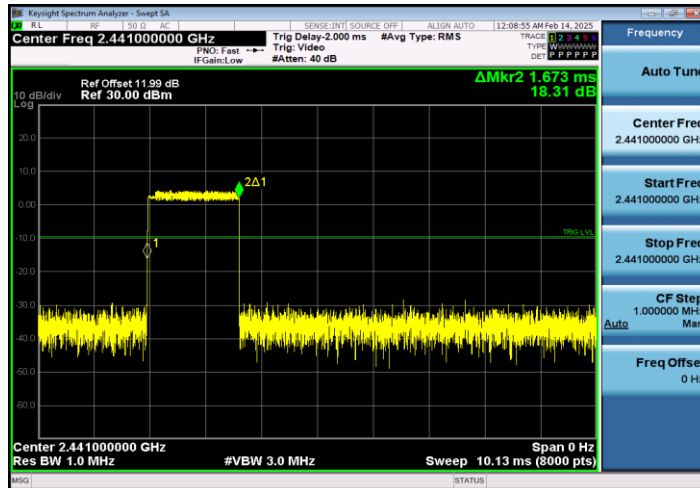
DH5_Ant1_Hop



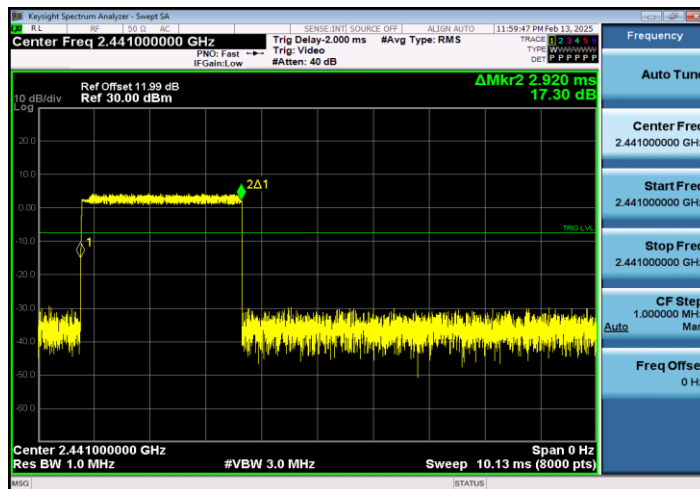
2DH1_Ant1_Hop



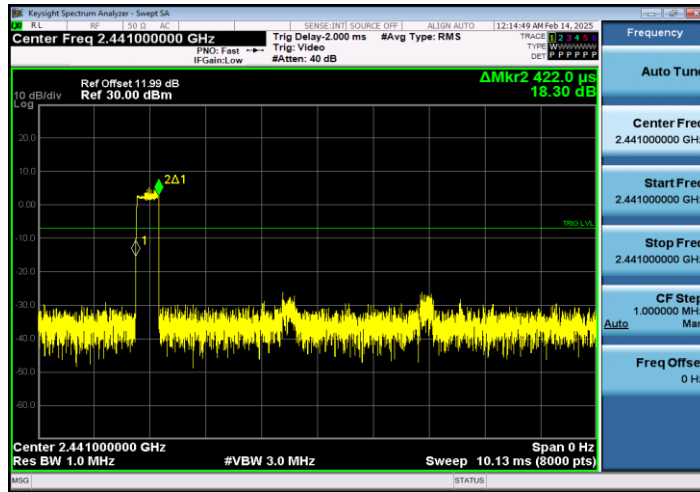
2DH3_Ant1_Hop



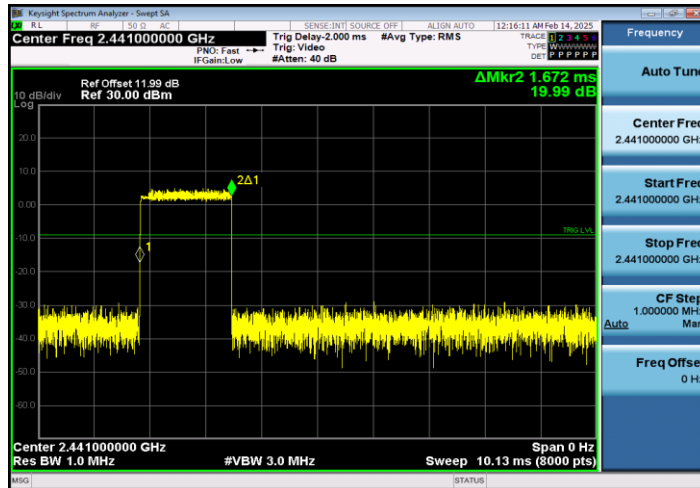
2DH5_Ant1_Hop



3DH1_Ant1_Hop



3DH3_Ant1_Hop



3DH5_Ant1_Hop

