



# RF TEST REPORT

Product Name: Smart-hopping 1.4 GHz AP

Model Name: ITS4843D

FCC ID: PQC-4843E

Issued For : Philips Medical Systems North America Co.

222 Jacobs Street Cambridge Massachusetts United States  
02141

Issued By : Shenzhen LGT Test Service Co., Ltd.

Room 205, Building 13, Zone B, Chen Hsong Industrial Park,  
No.177 Renmin West Road, Jinsha Community, Kengzi  
Street, Pingshan New District, Shenzhen, China

Report Number: LGT24C104RF01

Sample Received Date: Mar. 29, 2024

Date of Tested: Mar. 29, 2024 –Apr. 23, 2024

Date of Issue: Apr. 24, 2024

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## TEST REPORT CERTIFICATION

**Applicant** Philips Medical Systems North America Co.  
**Address** 222 Jacobs Street Cambridge Massachusetts United States 02141  
**Manufacturer** RTX A/S  
**Address** Stroemmen 6, Noerresundby, 9400 Denmark  
**Product Name** Smart-hopping 1.4 GHz AP  
**Trademark** PHILIPS  
**Model Name** ITS4843D  
**Sample Status:** Normal

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
47 CFR FCC Part 95H ANSI C63.26:2015	PASS

Prepared by:

Zane Shan

Zane Shan  
Engineer

Approved by:

Vita Li

Vita Li  
Technical Director





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**Revision History**

Rev.	Issue Date	Revisions
00	Apr. 24, 2024	Initial Issue



## 1. SUMMARY OF TEST

<b>47 CFR FCC Part 95H</b>			
<b>Range Of Measurements</b>	<b>Specification Reference</b>	<b>Judgment</b>	<b>Remark</b>
Effective Radiated Power	Part 95.2309(e)	PASS	--
Transmitter Fundamental Fieldstrength	Part 95.2369(b)	PASS	--
Occupied Bandwidth	Part 2.1049	PASS	--
Radiated Emission & field strength	Part 95.2369 & 95.2379	PASS	--
Frequency Stability	Part 95.2565	PASS	--



## 1.1 TEST FACTORY

Company Name:	Shenzhen LGT Test Service Co., Ltd.
Address:	Room 205, Building 13, Zone B, Chen Hsong Industrial Park, No.177 Renmin West Road, Jinsha Community, Kengzi Street, Pingshan New District, Shenzhen, China
Accreditation Certificate	A2LA Certificate No.: 6727.01
	FCC Registration No.: 746540
	CAB ID: CN0136

## 1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement  $y \pm U$ , where expanded uncertainty  $U$  is based on a standard uncertainty multiplied by a coverage factor of  $k=2$ , providing a level of confidence of approximately 95 %.

Parameter	Uncertainty
Occupied Channel Bandwidth	$\pm 3.2\%$
RF Output Power, Conducted	$\pm 0.71\text{dB}$
Power Spectral Density, Conducted	$\pm 1.57\text{dB}$
Unwanted Emission, Conducted	$\pm 0.63\text{dB}$
Conducted emission	$\pm 2.80\text{dB}$
All Emissions, Radiated (0.009-30MHz)	$\pm 2.16\text{dB}$
All Emissions, Radiated (30MHz-1GHz)	$\pm 4.40\text{dB}$
All Emissions, Radiated (1GHz-18GHz)	$\pm 5.49\text{dB}$
Temperature	$\pm 0.5^\circ\text{C}$
Humidity	$\pm 2\%$
Duty Cycle	$\pm 2.3\%$



## 2. GENERAL INFORMATION

### 2.1 TECHNICAL SPECIFICATIONS AND REGULATIONS

#### 2.1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Name	Smart-hopping 1.4 GHz AP
Trademark	PHILIPS
Model Name	ITS4843D
Series Model	N/A
Model Difference	N/A
Assigned frequency range	1395–1400 MHz and 1427–1429.5 WMTS Frequency Band. Also reference Part 2.106 (2)(1) 1427-1432 MHz Medical Operations Band
Antenna Type	Metal antenna
Antenna gain	AP: Antenna 1: 2 dBi AP: Antenna 2: 2 dBi Remote antenna ANT 1: 3 dBi Remote antenna ANT 2: 3 dBi
Power Input	PoE (minimum 44V DC and 350 mA) 15.4W
Extreme Vol. Limits	AC 108V to AC 132V (Nominal 120V from PoE input)
Operation temperature	0°C to +55°C
Test extreme Temp. Tolerance	-30°C to +50°C
Hardware version number	N/A
Software version number	N/A

Note:

1. The antenna information refer the manufacturer provide report, applicable only to the tested sample identified in the report.
2. Antenna 1 and Antenna 2 do not support simultaneous transmission



### 2.1.2 Channel list

Mode	Channel Number	Part 95	Modulation type
		1395-1400 1427-1432	
SH 1.0 WMTS	1	1395.9	GFSK
	2	1397.5	
	3	1399.1	
	4	1427.9	
	5	1429.5	
	6	1431.1	
	7	1430.24	

### 2.1.3 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for filing to comply with the 47 CFR Part 2, 95.

### 2.1.4 SPECIAL ACCESSORIES

The charger, antenna supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

### 2.1.5 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

### 2.1.6 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.





### 2.1.7 DESCRIPTION OF THE TEST MODES

SH 1.0 WMTS		/		/	
Channel	Frequency	/	/	/	/
1	1395.9	/	/	/	/
3	1399.1	/	/	/	/
4	1427.9	/	/	/	/
6	1431.1	/	/	/	/

Note: Only the worst modulation was tested and recorded in this report.

Pre-test all modes, find the worst case mode and recorded in this report..

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### 2.1.8 TEST SOFTWARE AND POWER LEVEL

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level.

Test software Version	Test program: 1.4GHz	
CMD	SH 1.0 WMTS	Default



### 2.1.9 DESCRIPTION OF necessary accessories AND support units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

#### Accessories Equipment

Description	Manufacturer	Model	S/N	Rating

#### Auxiliary Equipment

Description	Manufacturer	Model	S/N	Rating
Laptop	HUAWEI	HKF-16	N/A	N/A
USB extension cable	N/A	N/A	N/A	0.5m

#### Note:

- (1) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (2) “YES” is means “with core”; “NO” is means “without core”.



## 2.1.11 MEASUREMENT INSTRUMENTS

<b>Conducted Emission</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Date</b>	<b>Cal. Until</b>
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
LISN	COM-POWER	LI-115	02032	2024.03.09	2025.03.08
LISN	SCHWARZBECK	NNLK 8122	00160	2024.03.09	2025.03.08
Transient Limiter	CYBERTEK	EM5010A	E2250100049	2024.03.09	2025.03.08
Temperature & Humidity	KTJ	TA218B	N.A	2024.03.09	2025.03.08
Testing Software	EMC-I_V1.4.0.3_SKET				

<b>Radiated Test equipment</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Date</b>	<b>Cal. Until</b>
EMI Test Receiver	R&S	ESU8	100372	2024.03.09	2025.03.08
Active loop Antenna	ETS	6502	00049544	2023.10.13	2025.10.12
Spectrum Analyzer	Keysight	N9010B	MY60242508	2023.08.14	2024.08.13
Bilog Antenna(30M-1G)	SCHWARZBECK	VULB 9168	2705	2022.12.12	2025.12.11
Horn Antenna(1-18G)	SCHWARZBECK	3115	10SL0060	2022.06.02	2025.06.01
Horn Antenna(18-40G)	A-INFO	LB-180400-KF	J211060273	2022.06.08	2025.06.07
Pre-amplifier(30M-1G)	EMtrace	RP01A	02019	2024.03.09	2025.03.08
Pre-amplifier(1-26.5G)	Agilent	8449B	3008A4722	2024.03.09	2025.03.08
Pre-amplifier(18-40G)	com-mw	LNPA_18-40-01	18050003	2024.03.09	2025.03.08
Wireless Communications Test Set	R&S	CMW 500	137737	2024.03.09	2025.03.08
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Testing Software	EMC-I_V1.4.0.3_SKET				

<b>RF Conducted Test equipment</b>					
<b>Equipment</b>	<b>Manufacturer</b>	<b>Model No.</b>	<b>Serial No.</b>	<b>Cal. Date</b>	<b>Cal. Until</b>
Signal Analyzer	Keysight	N9010B	MY60242508	2023.08.14	2024.08.13
Signal Analyzer	Keysight	N9020A	MY50530994	2024.03.09	2025.03.08
RF Automatic Test system	MW	MW100-RFCB	MW220322L G-033	2024.03.09	2025.03.08
MXG Vector Signal Generator	Keysight	N5182B	MY59100717	2024.03.09	2025.03.08
Temperature & Humidity test chamber	AISRY	LX-1000L	171200018	2024.03.09	2025.03.08
Attenuator	eastsheep	90db	N.A	2024.03.09	2025.03.08
Temperature & Humidity	JINGCHUANG	BT-3	N.A	2024.03.11	2025.03.10
Digital multimeter	MASTECH	MS8261	MBGBC8305 3	2024.03.09	2025.03.08
Testing Software	MTS8310_V2.0.0.0_MW				



### 3. EFFECTIVE RADIATED POWER

#### 3.1 LIMIT

Requirement: Each registration includes the following information: The effective radiated power;

#### 3.2 MEASUREMENT METHOD

A test PC was used to establish communication with the EUT. Its parameters were set to force the EUT transmitting at maximum output power. The measured power in the radio frequency on the transmitter output terminals shall be reported.

Configuration follows C63.26:2015 Section 5.2.

#### 3.3 TEST PROCEDURES

1. The EUT transmitter output port was connected to spectrum analyzer through an attenuator.
2. Set EUT at maximum power level through the test PC.
3. Select lowest/middle/highest channels for each band and different modulation.
4. Measure and record the reading from the spectrum analyzer.
5.  $EIRP = \text{Reading} + \text{Ant Gain}$
6.  $ERP = EIRP - 2.15 \text{ dB}$

#### 3.5 TEST RESULTS

For the measurement records, refer to the appendix I.



## 4. OCCUPIED BANDWIDTH

### 4.1 LIMIT

Reported only, no limit applied.

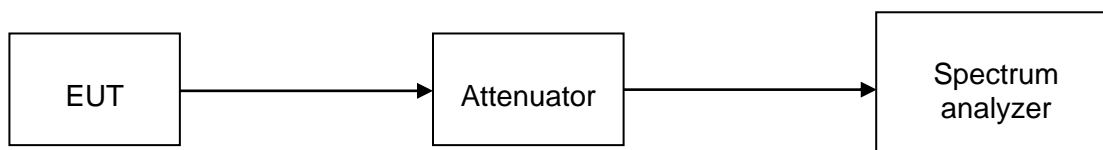
### 4.2 MEASUREMENT METHOD

1. The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

2. The 26 db emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 db below the maximum in-band spectral density of the modulated signal. spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

Configuration follows C63.26:2015 Section 5.4.

### 4.3 TEST SETUP



### 4.4 TEST PROCEDURES

1. The testing follows C63.26:2015 Section 5.4.
2. The EUT transmitter output port was connected to spectrum analyzer through an attenuator.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the Occupied Bandwidth of the spectrum analyzer.
5. Measure and record the Occupied Bandwidth from the Spectrum Analyzer.

### 4.5 TEST RESULTS

For the measurement records, refer to the appendix I.



## 5. RADIATED SPURIOUS EMISSION AND FIELDSTRENGTH

### 5.1 LIMIT

#### RADIATED SPURIOUS EMISSION

Below 1GHz

Frequencies (MHz)	Field Strength (micovolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Above 1GHz

FREQUENCY (MHz)	(dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

#### Fundamental Fieldstrength

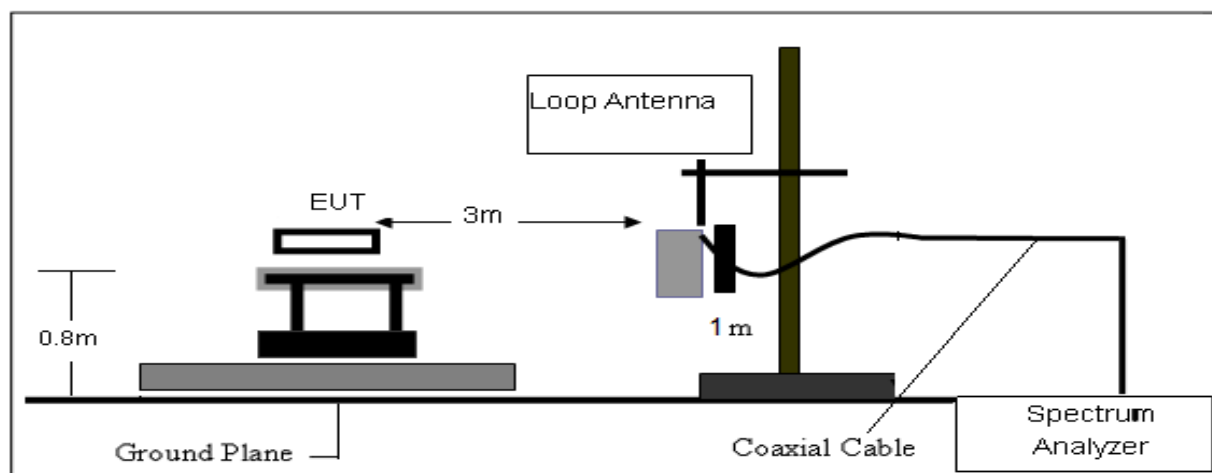
Frequency Band (MHz)	dBuV/m
1395.0 – 1400	117.4
1427.0 – 1432	117.4

Note: According to Part 95.369 the radiated field strength limit is 740 mV/m (117.4 dBuV/m) at 3 metres. To convert from field strength to an equivalent conducted power in dBm, subtract 95.2 dB. (117.4 - 95.2 = 22.2). The figure of 95.2 dB is arrived at using the formula  $P = (V/m \times d) / 30$ .

### 5.2 Test Setup

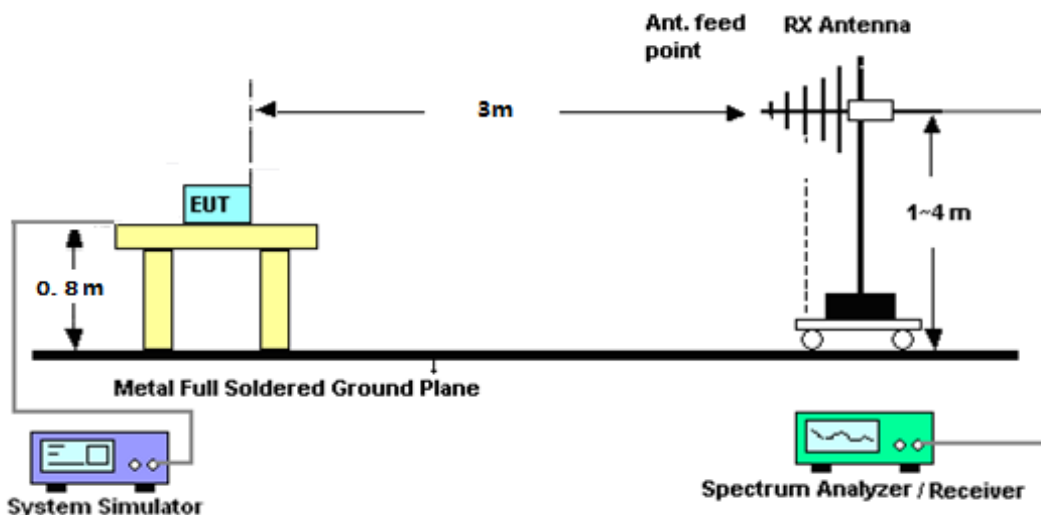
The procedure of radiated spurious emissions is as follows:

For radiated test from below 30MHz

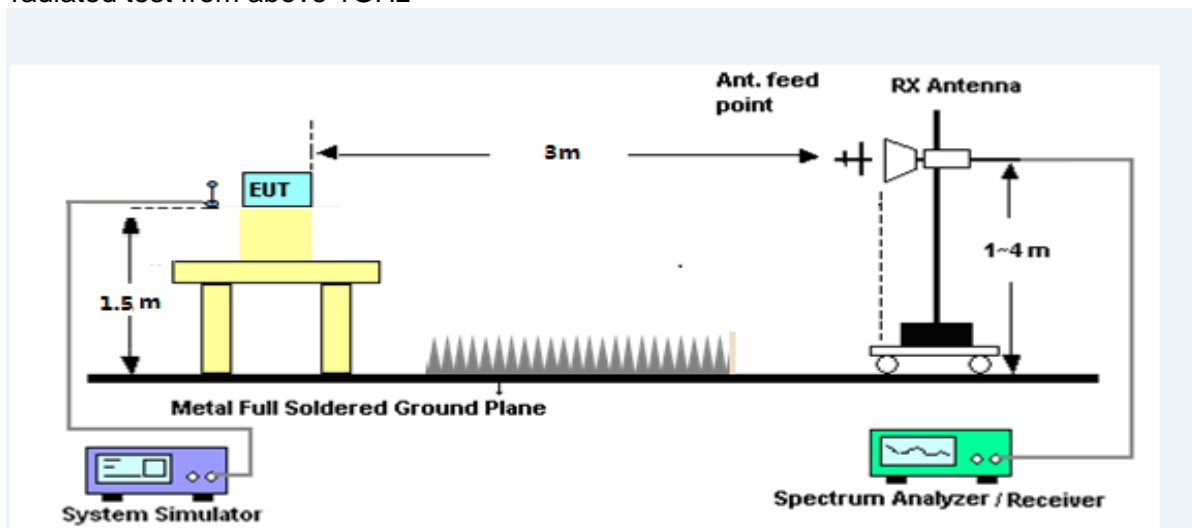




For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



### 5.3 TEST PROCEDURES

- The measuring distance at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 m (above 1GHz is 1.5 m) above the ground at a 3 m anechoic chamber test site. The table was rotated 360 degree to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarization of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and QuasiPeak detector mode will be re-measured.
- If the Peak Mode measured value is compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and no additional QP Mode measurement was performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.



#### 5.4 TEST RESULTS

For the measurement records, refer to the appendix I.

Note:

1. 9KHz-30MHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Test is divided into three directions, X/Y/Z. X pattern is the worst.
3. Pre-test with remote antenna and without remote antenna modes, find the worst case is with remote antenna mode and recorded in this report.





## 6. FREQUENCY STABILITY

### 6.1 LIMIT

Assigned frequency: 1395 – 1400 MHz; 1427 – 1432 MHz

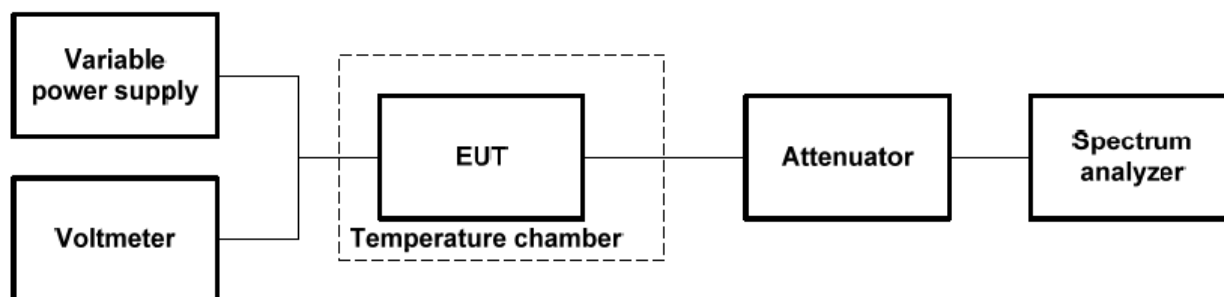
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

### 6.2 MEASUREMENT METHOD

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency band.

Configuration follows C63.26:2015 Section 5.6.

### 6.3 TEST SETUP



### 6.4 TEST PROCEDURES FOR TEMPERATURE VARIATION

1. The EUT was set up in the thermal chamber and connected to spectrum analyzer through an attenuator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C. The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

### 6.5 TEST PROCEDURES FOR VOLTAGE VARIATION

1. The EUT was placed in a temperature chamber at 25±5° C and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

### 6.6 TEST RESULTS

For the measurement records, refer to the appendix I.



## APPENDIX I - TEST RESULTS

### EFFECTIVE RADIATED POWER MEASUREMENTS

Mode	Test Frequency (MHz)	Peak Output Power (dBm)	Ant Gain (dBi)	Peak EIRP (dBm)
SH 1.0	1395.9	12.468	3.0	15.468
	1399.1	12.446	3.0	15.446
WMTS	1427.9	12.25	3.0	15.25
	1431.1	12.237	3.0	15.237

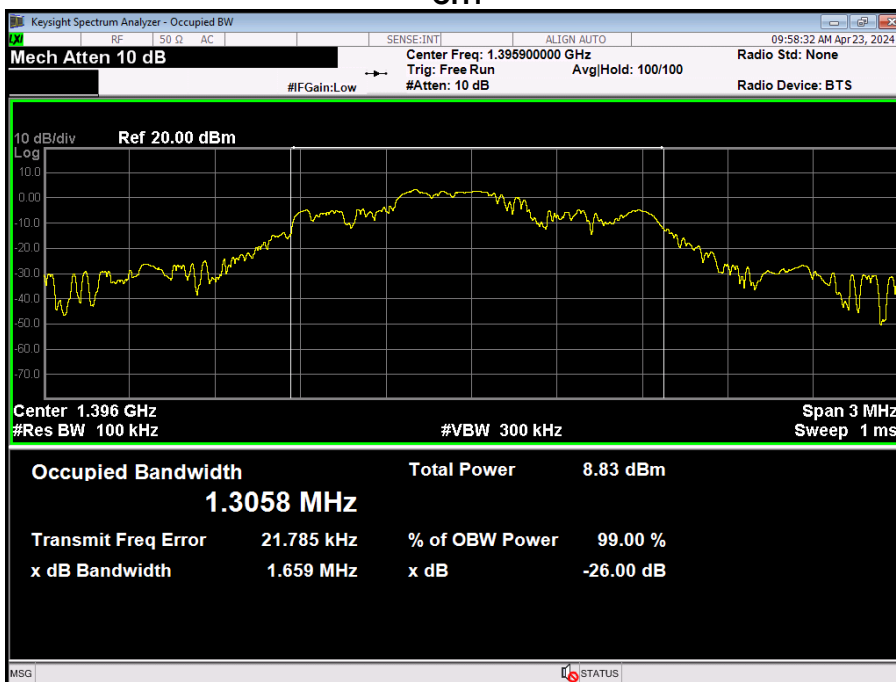


## OCCUPIED BANDWIDTH

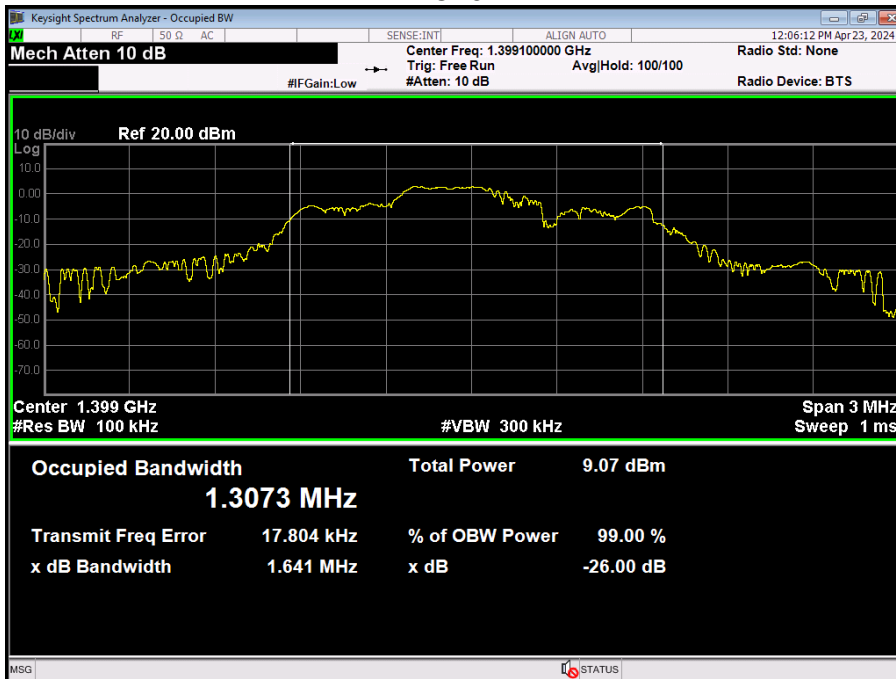
<b>Test Frequency (MHz)</b>	<b>Occupied Bandwidth (MHz)</b>	<b>26dB Bandwidth (MHz)</b>
1395.9	1.3058	1.659
1399.1	1.3073	1.641
1427.9	1.3124	1.703
1431.1	1.1006	1.373



### CH1

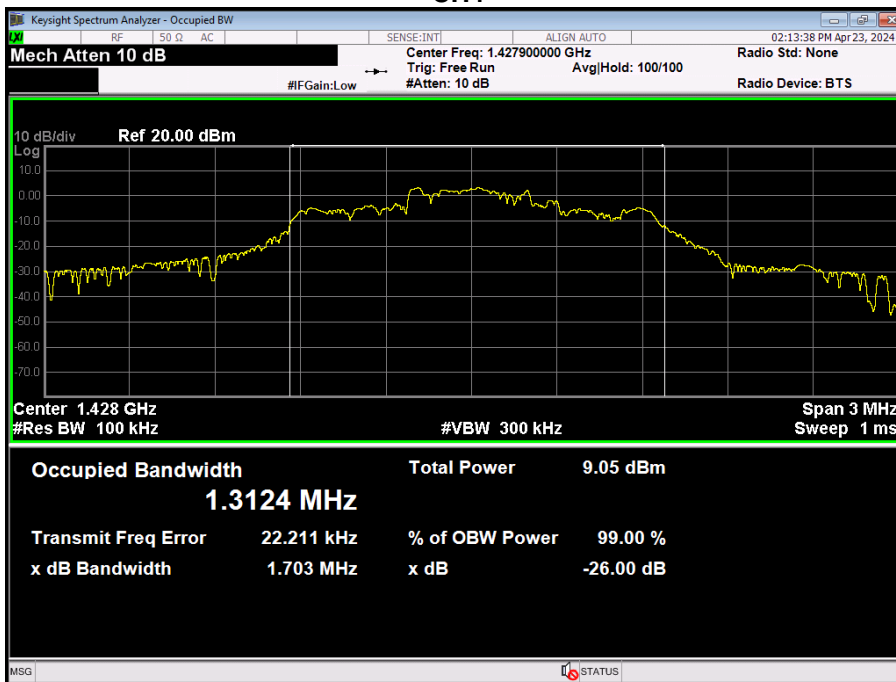


### CH3

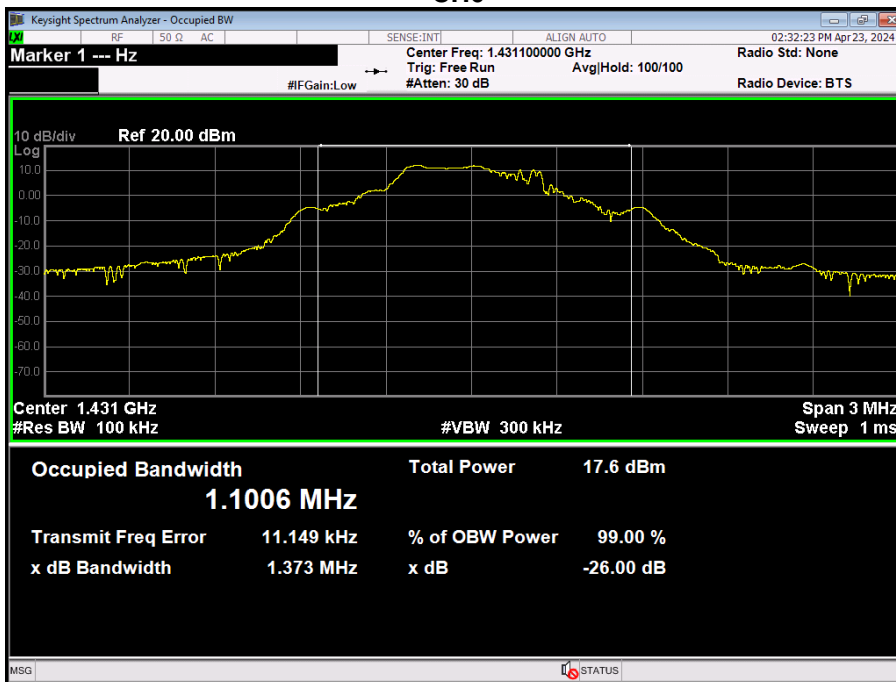




### CH4



### CH6





## RADIATED SPURIOUS EMISSION AND FIELDSTRENGTH

1. 9KHz-30MHz amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
2. Test is divided into three directions, X/Y/I. X pattern is the worst.
3. Pre-test with remote antenna and without remote antenna modes, find the worst case is with remote antenna mode and recorded in this report.

### Fundamental Field strength

No.	Frequency	Reading dBuV	Factor dB	Level dBuV	Limit dBuV	Margin dB	Detector	Polar
1	1395.9	73.68	29.97	103.65	117.40	-13.75	AV	Hor
1	1395.9	79.66	29.97	109.63	117.40	-7.77	AV	Ver
3	1399.1	73.36	30.00	103.36	117.40	-14.04	AV	Hor
3	1399.1	74.48	30.00	104.48	117.40	-12.92	AV	Ver
4	1427.9	72.75	30.04	102.79	117.40	-14.61	AV	Hor
4	1427.9	73.83	30.04	103.87	117.40	-13.53	AV	Ver
6	1431.1	70.73	30.05	100.78	117.40	-16.62	AV	Hor
6	1431.1	72.74	30.05	102.79	117.40	-14.61	AV	Ver

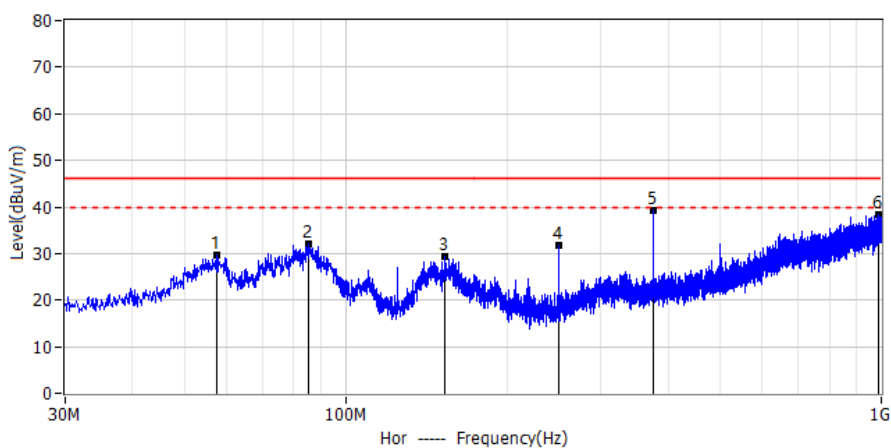


### Radiated Spurious Emission

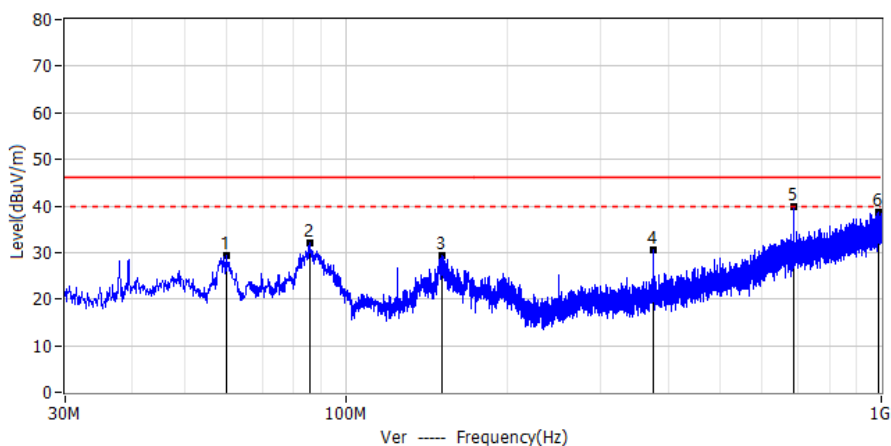
**Note: Pre-test all modes, find the worst case mode and recorded in this report.**

Below 1GHz

Project: LGT24C104	Test Engineer: xiangdong Ma
EUT: Smart-hopping 1.4 GHz AP	Temperature: 22.3°C
M/N: ITS4843D	Humidity: 44%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-04-20
Test Mode: TX	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	57.524	10.81	18.82	29.63	46.00	-16.37	QP	Hor
2*	85.290	16.88	15.13	32.01	46.00	-13.99	QP	Hor
3*	153.190	9.28	19.94	29.22	46.00	-16.78	QP	Hor
4*	249.948	13.49	18.23	31.72	46.00	-14.28	QP	Hor
5*	374.956	17.04	22.07	39.11	46.00	-6.89	QP	Hor
6*	988.603	3.95	34.52	38.47	46.00	-7.53	QP	Hor

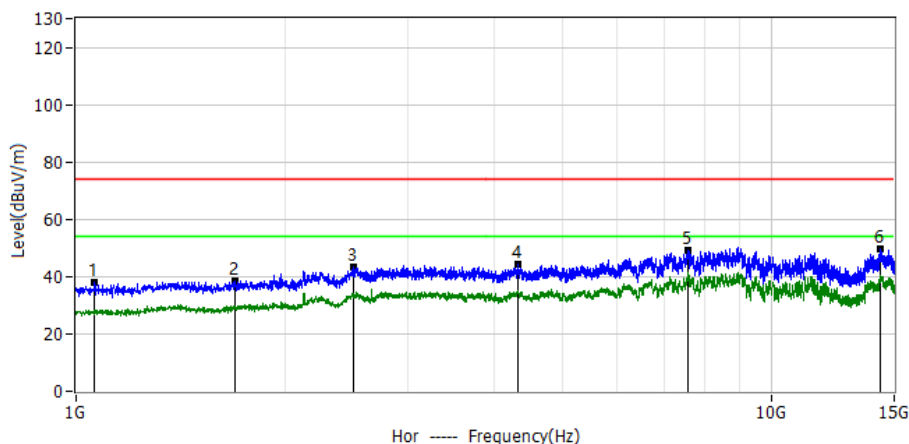


No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	60.070	10.66	18.64	29.30	46.00	-16.70	QP	Ver
2*	85.775	16.91	15.12	32.03	46.00	-13.97	QP	Ver
3*	151.008	9.45	19.98	29.43	46.00	-16.57	QP	Ver
4*	374.956	8.63	22.07	30.70	46.00	-15.30	QP	Ver
5*	687.539	10.06	29.69	39.75	46.00	-6.25	QP	Ver
6*	990.421	4.08	34.53	38.61	46.00	-7.39	QP	Ver

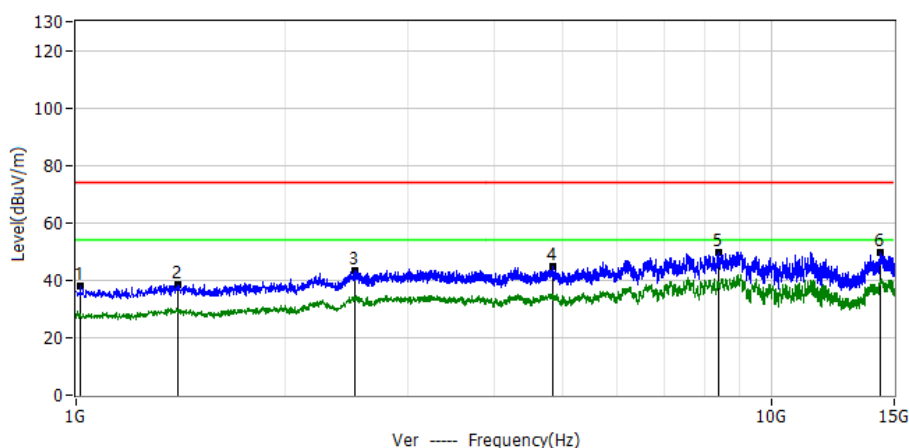


Above 1GHz

Project: LGT24C104	Test Engineer: Xiangdong Ma
EUT: Smart-hopping 1.4 GHz AP	Temperature: 26°C
M/N: ITS4843D	Humidity: 54%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-04-20
Test Mode: SH 1.0 WMTS_FSK_CH1_1395.9	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1063.0000	62.03	-24.01	38.02	74.00	-35.98	PK	Hor
2*	1689.5000	58.68	-20.37	38.31	74.00	-35.69	PK	Hor
3*	2508.5000	55.70	-12.37	43.33	74.00	-30.67	PK	Hor
4*	4316.2000	53.06	-8.62	44.44	74.00	-29.56	PK	Hor
5*	7583.5000	55.65	-6.28	49.37	74.00	-24.63	PK	Hor
6*	14317.5000	49.24	0.40	49.64	74.00	-24.36	PK	Hor

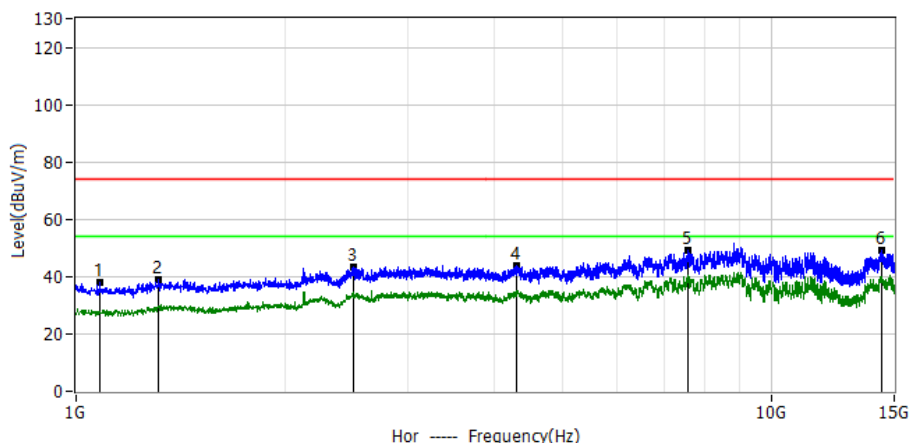


No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1014.0000	62.33	-24.35	37.98	74.00	-36.02	PK	Ver
2*	1402.5000	60.55	-21.88	38.67	74.00	-35.33	PK	Ver
3*	2519.0000	55.65	-12.32	43.33	74.00	-30.67	PK	Ver
4*	4839.5000	53.07	-8.50	44.57	74.00	-29.43	PK	Ver
5*	8371.0000	55.13	-5.60	49.53	74.00	-24.47	PK	Ver
6*	14329.7000	49.04	0.40	49.44	74.00	-24.56	PK	Ver

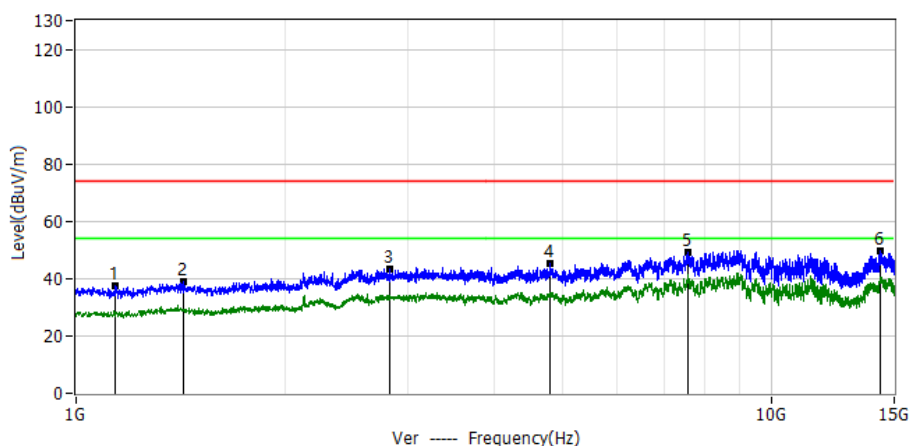




Project: LGT24C104	Test Engineer: Xiangdong Ma
EUT: Smart-hopping 1.4 GHz AP	Temperature: 26°C
M/N: ITS4843D	Humidity: 54%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-04-20
Test Mode: SH 1.0 WMTS_FSK_CH3_1399.1	
Note:	



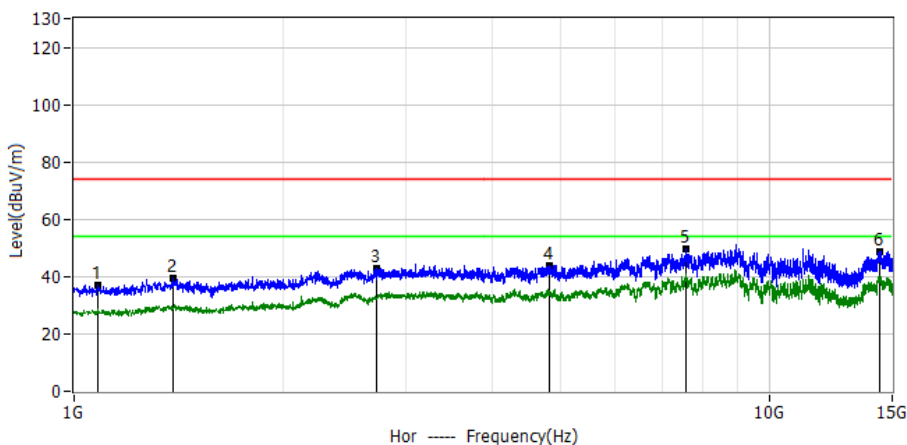
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1082.2000	61.63	-23.88	37.75	74.00	-36.25	PK	Hor
2*	1313.2000	61.26	-22.40	38.86	74.00	-35.14	PK	Hor
3*	2499.7000	55.83	-12.41	43.42	74.00	-30.58	PK	Hor
4*	4291.7000	52.45	-8.63	43.82	74.00	-30.18	PK	Hor
5*	7590.5000	55.38	-6.29	49.09	74.00	-24.91	PK	Hor
6*	14366.5000	48.63	0.40	49.03	74.00	-24.97	PK	Hor



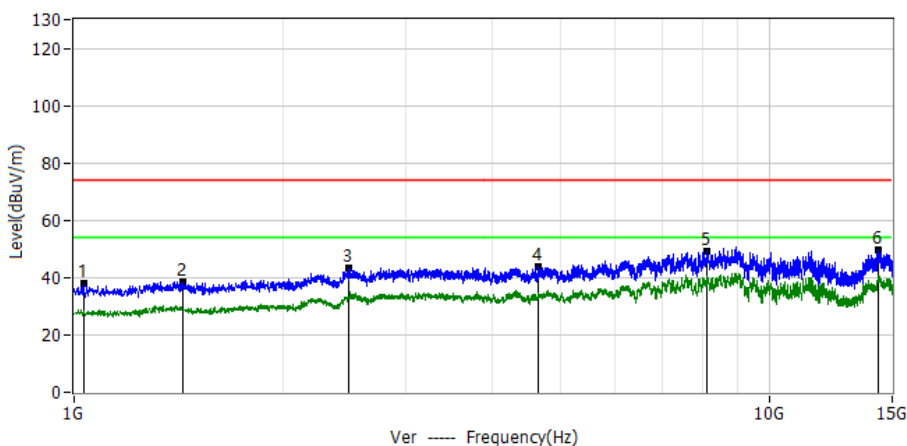
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1138.2000	61.04	-23.50	37.54	74.00	-36.46	PK	Ver
2*	1428.7000	60.60	-21.79	38.81	74.00	-35.19	PK	Ver
3*	2823.5000	54.34	-10.96	43.38	74.00	-30.62	PK	Ver
4*	4809.7000	53.78	-8.50	45.28	74.00	-28.72	PK	Ver
5*	7585.2000	55.58	-6.28	49.30	74.00	-24.70	PK	Ver
6*	14356.0000	49.34	0.40	49.74	74.00	-24.26	PK	Ver



Project: LGT24C104	Test Engineer: Xiangdong Ma
EUT: Smart-hopping 1.4 GHz AP	Temperature: 26°C
M/N: ITS4843D	Humidity: 54%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-04-20
Test Mode: SH 1.0 WMTS_FSK_CH4_1427.9	
Note:	



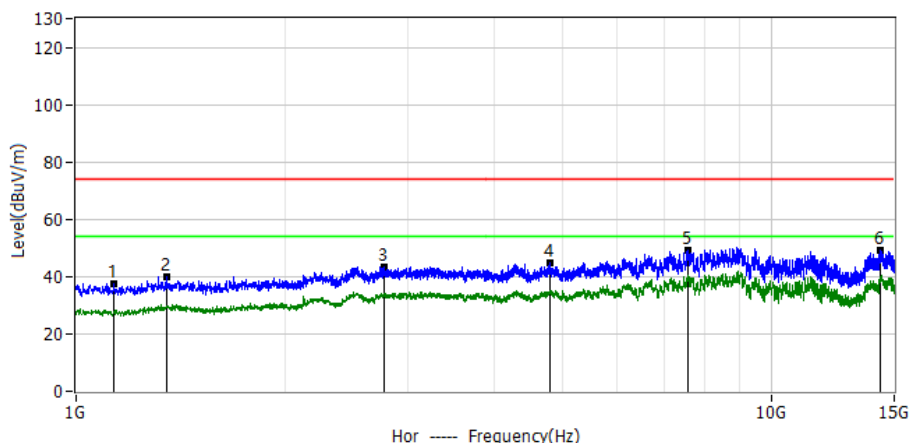
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1084.0000	60.76	-23.87	36.89	74.00	-37.11	PK	Hor
2*	1390.2000	61.60	-21.95	39.65	74.00	-34.35	PK	Hor
3*	2722.0000	54.14	-11.41	42.73	74.00	-31.27	PK	Hor
4*	4818.5000	52.46	-8.50	43.96	74.00	-30.04	PK	Hor
5*	7583.5000	56.07	-6.28	49.79	74.00	-24.21	PK	Hor
6*	14371.7000	48.34	0.40	48.74	74.00	-25.26	PK	Hor



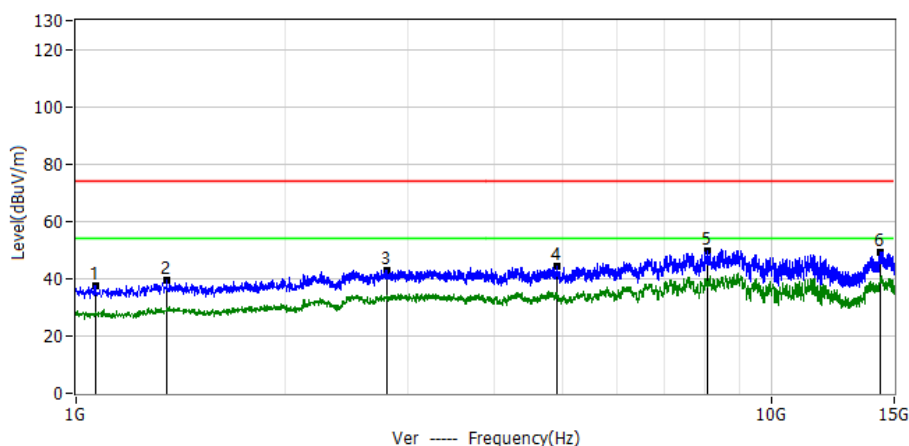
No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1031.5000	62.00	-24.23	37.77	74.00	-36.23	PK	Ver
2*	1430.5000	60.44	-21.78	38.66	74.00	-35.34	PK	Ver
3*	2485.7000	56.07	-12.56	43.51	74.00	-30.49	PK	Ver
4*	4650.5000	52.45	-8.50	43.95	74.00	-30.05	PK	Ver
5*	8127.7000	55.36	-6.19	49.17	74.00	-24.83	PK	Ver
6*	14298.2000	49.11	0.40	49.51	74.00	-24.49	PK	Ver



Project: LGT24C104	Test Engineer: Xiangdong Ma
EUT: Smart-hopping 1.4 GHz AP	Temperature: 26°C
M/N: ITS4843D	Humidity: 54%RH
Test Voltage: AC 120V/60Hz	Test Data: 2024-04-20
Test Mode: SH 1.0 WMTS_FSK_CH6_1431.1	
Note:	



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1134.7000	61.11	-23.52	37.59	74.00	-36.41	PK	Hor
2*	1348.2000	62.17	-22.19	39.98	74.00	-34.02	PK	Hor
3*	2774.5000	54.63	-11.18	43.45	74.00	-30.55	PK	Hor
4*	4808.0000	53.13	-8.50	44.63	74.00	-29.37	PK	Hor
5*	7588.7000	55.59	-6.28	49.31	74.00	-24.69	PK	Hor
6*	14350.7000	48.94	0.40	49.34	74.00	-24.66	PK	Hor



No.	Frequency MHz	Reading dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Margin dB	Detector	Polar
1*	1064.7000	61.58	-24.00	37.58	74.00	-36.42	PK	Ver
2*	1350.0000	61.38	-22.18	39.20	74.00	-34.80	PK	Ver
3*	2797.2000	54.00	-11.08	42.92	74.00	-31.08	PK	Ver
4*	4913.0000	52.83	-8.50	44.33	74.00	-29.67	PK	Ver
5*	8071.7000	55.75	-6.33	49.42	74.00	-24.58	PK	Ver
6*	14356.0000	48.89	0.40	49.29	74.00	-24.71	PK	Ver



## FREQUENCY STABILITY

Test Frequency (MHz)	Temperature (°C)	Voltage (V)	FL	FH	FC	Tolerance (Hz)	Tolerance (ppm)	Verdict
1395.900	50	Normal Voltage	1390.7351	1392.1731	1391.45407	-4445930	-3184.992	PASS
	40		1390.7362	1392.1751	1391.45562	-4444379	-3183.881	PASS
	30		1390.7355	1392.1731	1391.45430	-4445696	-3184.824	PASS
	20		1390.7340	1392.1746	1391.45429	-4445707	-3184.832	PASS
	10		1390.7365	1392.1770	1391.45676	-4443242	-3183.066	PASS
	0		1390.7379	1392.1732	1391.45557	-4444426	-3183.914	PASS
	-10		1390.7393	1392.1758	1391.45752	-4442479	-3182.520	PASS
	-20		1390.7360	1392.1762	1391.45610	-4443896	-3183.535	PASS
	-30		1390.7374	1392.1742	1391.45580	-4444204	-3183.755	PASS
	20	15%	1390.7366	1392.1739	1391.45524	-4444763	-3184.156	PASS
	20	-15%	1390.7357	1392.1749	1391.45531	-4444692	-3184.105	PASS

Test Frequency (MHz)	Temperature (°C)	Voltage (V)	FL	FH	FC	Tolerance (Hz)	Tolerance (ppm)	Verdict
1399.100	50	Normal Voltage	1392.4661	1393.8997	1393.18287	-5917129	-4229.240	PASS
	40		1392.4667	1393.9016	1393.18414	-5915860	-4228.333	PASS
	30		1392.4664	1393.9007	1393.18352	-5916482	-4228.777	PASS
	20		1392.4668	1393.9019	1393.18436	-5915637	-4228.173	PASS
	10		1392.4662	1393.9013	1393.18377	-5916225	-4228.593	PASS
	0		1392.4674	1393.9010	1393.18421	-5915791	-4228.283	PASS
	-10		1392.4691	1393.9028	1393.18595	-5914046	-4227.036	PASS
	-20		1392.4672	1393.9038	1393.18548	-5914520	-4227.375	PASS
	-30		1392.4682	1393.9013	1393.18475	-5915249	-4227.896	PASS
	20	15%	1392.4667	1393.9010	1393.18384	-5916157	-4228.545	PASS
	20	-15%	1392.4667	1393.9027	1393.18468	-5915319	-4227.946	PASS



Test Frequency (MHz)	Temperature (°C)	Voltage (V)	FL	FH	FC	Tolerance (Hz)	Tolerance (ppm)	Verdict
1427.900	50	Normal Voltage	1394.1911	1395.6286	1394.90985	-32990148	-23103.963	PASS
	40		1394.1921	1395.6295	1394.91081	-32989190	-23103.291	PASS
	30		1394.1915	1395.6297	1394.91061	-32989394	-23103.434	PASS
	20		1394.1920	1395.6293	1394.91066	-32989336	-23103.394	PASS
	10		1394.1909	1395.6316	1394.91125	-32988752	-23102.985	PASS
	0		1394.1930	1395.6310	1394.91202	-32987978	-23102.443	PASS
	-10		1394.1939	1395.6307	1394.91231	-32987692	-23102.242	PASS
	-20		1394.1916	1395.6305	1394.91101	-32988988	-23103.150	PASS
	-30		1394.1934	1395.6301	1394.91174	-32988262	-23102.642	PASS
	20	15%	1394.1922	1395.6297	1394.91098	-32989024	-23103.175	PASS
	20	-15%	1394.1925	1395.6282	1394.91035	-32989645	-23103.610	PASS

Test Frequency (MHz)	Temperature (°C)	Voltage (V)	FL	FH	FC	Tolerance (Hz)	Tolerance (ppm)	Verdict
1431.100	50	Normal Voltage	1431.2534	1432.6904	1431.97190	871895	609.248	PASS
	40		1431.2524	1432.6900	1431.97120	871196	608.760	PASS
	30		1431.2525	1432.6901	1431.97128	871281	608.819	PASS
	20		1431.2545	1432.6918	1431.97316	873159	610.131	PASS
	10		1431.2537	1432.6921	1431.97292	872919	609.964	PASS
	0		1431.2548	1432.6911	1431.97294	872938	609.977	PASS
	-10		1431.2552	1432.6903	1431.97274	872745	609.842	PASS
	-20		1431.2526	1432.6902	1431.97135	871353	608.869	PASS
	-30		1431.2545	1432.6926	1431.97353	873531	610.392	PASS
	20	15%	1431.2541	1432.6912	1431.97265	872651	609.777	PASS
	20	-15%	1431.2528	1432.6914	1431.97210	872101	609.392	PASS

※※※※END OF THE REPORT※※※※