

FCC CERTIFICATION TEST REPORT

Applicant:	iFIT Inc.
Address:	1500 South 1000 West, Logan, UT 84321, USA
Manufacturer:	iFIT Inc.
Address:	1500 South 1000 West, Logan, UT 84321, USA
Product Description:	Tablet
Brand Name:	iFIT
Tested Model:	MP24-Cesium-V, MP16-Cesium-V, MP10-Cesium-V
FCC ID:	OMC-CESIUM1
Report No.:	JCF260410101-001
Received Date:	Apr. 10, 2026
Tested Date:	Apr. 10, 2026 ~ Jul. 07, 2026
Issued Date:	Jul. 07, 2026
Test Standards:	FCC Rules and Regulations Part 15 Subpart C
Test Procedure:	ANSI C63.10-2020 558074 D01 15.247 Meas Guidance v05r02, 662911 D01 Multiple Transmitter Output v02r01,
Test Result:	Pass

Prepared By:



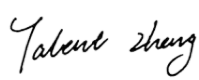
Roger Li/Engineer **Date:** Jul. 07, 2026

Reviewed By:



Kennys Zhang/Engineer **Date:** Jul. 07, 2026

Approved By:



Talent Zhang/Engineer **Date:** Jul. 07, 2026

Note: The test results in this report apply exclusively to the tested model / sample. Without written approval of Guangzhou Jingce Testing Technology Co., Ltd. the test report shall not be reproduced except in full.

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
--	/	Jul. 07, 2026	Original Report	/

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1. Test Report Declare

Applicant:	iFIT Inc.
Address:	1500 South 1000 West, Logan, UT 84321, USA
Manufacturer:	iFIT Inc.
Address:	1500 South 1000 West, Logan, UT 84321, USA
Product Name:	Tablet
Brand Name:	iFIT
Model Name:	MP24-Cesium-V, MP16-Cesium-V, MP10-Cesium-V, MP24-CESIUM-M, MP16-CESIUM-M, MP10-CESIUM-M
Difference Description:	1. The three size variants of the product only differ in appearance, dimensions, and display circuitry, while everything else remains the same. All models share the same main chip and RF hardware, including modules, crystal oscillators, antennas, etc., and have identical functionality. 2. The same size “-V” and “-M” only Different of model names for trading purpose.

We Declare:

The equipment described above is tested by Guangzhou Jingce Testing Technology Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangzhou Jingce Testing Technology Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests except as provided information by clients.

2. Summary of Test Results

Summary of Test Results			
Clause	Test Items	FCC/ISED Rules	Test Result
1	20 dB Bandwidth and 99 % Occupied Bandwidth	FCC 15.247 (a) (1)	Pass
2	Conducted Output Power & EIRP	FCC 15.247 (b) (1)	Pass
3	Carrier Hopping Channel Separation	FCC 15.247 (a) (1)	Pass
4	Number of Hopping Frequency	15.247 (a) (1) III	Pass
5	Time of Occupancy (Dwell Time)	15.247 (a) (1) III	Pass
6	Conducted Band edge	FCC 15.247 (d)	Pass
7	Radiated Band edge and Spurious	FCC 15.247 (d) FCC 15.209 FCC 15.205	Pass
8	Conducted Emission Test For AC Power Port	FCC 15.207	Pass
9	Antenna Requirement	FCC 15.203	Pass
Note1: This report was tested strictly in accordance with the standards, without any additions, deviations or omissions to the standard content. Note2: The model: MP24-Cesium-V; MP16-Cesium-V; MP10-Cesium-V share the same main chip and RF hardware, including modules, crystal oscillators, antennas, etc., and have identical functionality. So except for item 7&8 above, which requires all models to be tested, the remaining items only test model MP24-Cesium-V. Note3: Two screen suppliers are used for the same model. Matching tests have been completed for both screens. Only the test data of the screen with the worst-performing results is presented in the report, which serves as the judgment basis for this model.			

3. Test Laboratory

Guangzhou Jingce Testing Technology Co., Ltd.

Add.: No.10, Hefeng No.1 street, Huangpu District, Guangzhou, Guangdong, People's Republic of China

Association for Laboratory Accreditation(A2LA). Certificate Number: 6594.03

FCC Designation Number: CN1381. Test Firm Registration Number: 486550

IC Test Firm Registration Number: 31808

Conformity Assessment Body identifier: CN0173

4. Equipment Under Test

4.1. Description of EUT

EUT Name:	Tablet
Model Number:	MP24-Cesium-V, MP16-Cesium-V, MP10-Cesium-V
EUT Function Description:	Refer to user manual
Power Supply:	DC 12V 3A
Sample No.:	260410101-01-01, 260410101-01-02, 260410101-01-03
Hardware Version:	N/A
Software Version:	N/A
Radio Specification:	Bluetooth V5.3
Operation Frequency:	2402 MHz - 2480 MHz
Modulation:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Data Rate:	1Mbps, 2Mbps, 3Mbps
Antenna Type:	FPC Antenna, MAX. Gain: 3.39 dBi

Antenna Gain:		
MP10-Cesium-V	BT ANT	2.4G: 2.21dBi
MP16-Cesium-V	BT ANT	2.4G: 3.39dBi
MP24-Cesium-V	BT ANT	2.4G: 3.10dBi

Note 1: EUT is the ab. of equipment under test.

Note 2: The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain.

4.2. Channel List

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (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	/	/

4.3. Packet Type Configuration

Test Mode	Packet Type	Setting(Packet Length)
GFSK	DH1	27
	DH3	183
	DH5	339
$\pi/4$ -DQPSK	2-DH1	54
	2-DH3	367
	2-DH5	679
8DPSK	3-DH1	83
	3-DH3	552
	3-DH5	1021

4.4. Test Channel Configuration

Tested mode, channel, information		
Mode	Channel	Frequency (MHz)
GFSK hopping on Tx mode	CH0 to CH78	2402 to 2480
$\pi/4$ -DQPSK hopping on Tx mode	CH0 to CH78	2402 to 2480
8DPSK hopping on Tx mode	CH0 to CH78	2402 to 2480
GFSK hopping off Tx mode	LCH: CH0	2402
	MCH: CH39	2441
	HCH: CH78	2480
$\pi/4$ -DQPSK hopping off Tx mode	LCH: CH0	2402
	MCH: CH39	2441
	HCH: CH78	2480
8DPSK hopping off Tx mode	LCH: CH0	2402
	MCH: CH39	2441
	HCH: CH78	2480

4.5. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature range:	21-25 °C
Humidity range:	40-75%
Pressure range:	86-106 kPa

4.6. The Worse Case Power Setting Parameter

The Worse Case Power Setting Parameter under 2400 ~ 2483.5MHz Band	
Test Software	AP_META_exe_V4.2520.00

Modulation Type	Transmit Antenna Number	Test Software Setting Value		
		CH 0	CH 39	CH 78
GFSK	1	6	6	6
$\pi/4$ -DQPSK	1	6	6	6
8DPSK	1	6	6	6

4.7. Description of Available Antennas

Test Mode	Transmit and Receive Mode	Description
GFSK	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
$\pi/4$ -DQPSK	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.
8DPSK	☒ 1TX, 1RX	Antenna 1 can be used as transmitting/receiving antenna.

5. Description of Test Setup

5.1. Accessory

Description of Accessories	Manufacturer	Model Number	Description	Remark
/	/	/	/	/

5.2. Support Equipment

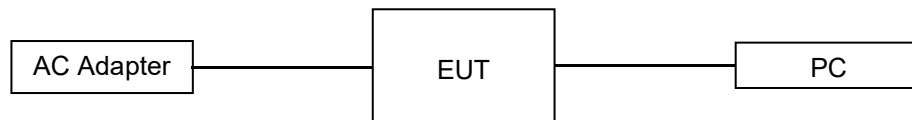
Equipment	Brand Name	Model Name	P/N
PC	Lenovo	T480	/
Adapter	HONOTO	ADS-50HF-12-1 12040E	/

5.3. Test Setup

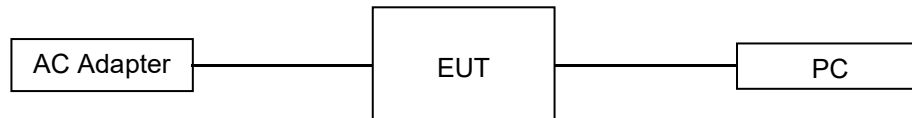
The EUT can work in Fixed Frequency mode.

5.4. Setup Diagram for Tests

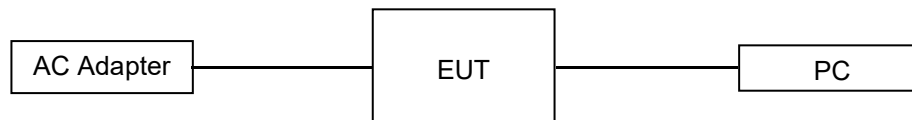
RF Connect Test:



Radiated Emission Test:



AC Power Line Conducted Emissions Test:



6. Measurement Uncertainty

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

Test Item	Uncertainty
AC Power Conduction emission	1.37 dB
All Radiated emissions	5.4dB
Conducted emissions	3.09 dB
Occupied Channel Bandwidth	1.1%
Conducted Output power	0.82dB
Power Spectral Density	0.82dB

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

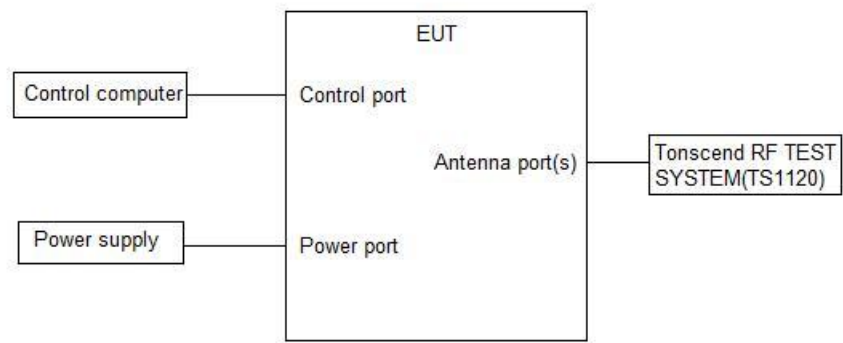
7. Measuring Instrument and Software Used

TS Test System						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	Spectrum Analyzer	Keysight	N9030B	MY56320512	Jul. 31, 2025	Jul. 30, 2026
☒	Vector Signal Generator	Keysight	N5182B	MY57300334	Jul. 31, 2025	Jul. 30, 2026
☒	Signal Generator	Keysight	N5171B	MY57280639	Jul. 31, 2025	Jul. 30, 2026
☒	DC POWER	Keysight	E342A	MY59020356	Jul. 31, 2025	Jul. 30, 2026
☒	Incubator thermometer	GWS	EL-02JA	21107288	Jul. 31, 2025	Jul. 30, 2026
☒	Control unit(Power sensor)	Tonscend	JS0806-2	/	Jul. 31, 2025	Jul. 30, 2026
☒	Spectrum Analyzer	Keysight	N9020B	MY60112206	Jul. 31, 2025	Jul. 30, 2026
☒	Control unit(Power sensor)	Tonscend	JS0806-2	21H8060465	Aug. 01, 2025	Jul. 31, 2026
☒	Spectrum Analyzer	Keysight	N9020B	MY60112811	Jul. 31, 2025	Jul. 30, 2026
☒	Signal Generator	Keysight	N5173B	MY62220145	Jul. 31, 2025	Jul. 30, 2026
☒	Vector Signal Generator	Keysight	N5182B	MY61252859	Jul. 31, 2025	Jul. 30, 2026
☒	DC POWER	Keysight	E3642A	MY40005294	Jul. 31, 2025	Jul. 30, 2026
☒	Control unit(Power sensor)	Tonscend	JS0806-2	24F80620865	Aug. 01, 2025	Jul. 31, 2026
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	Tonscend	JS1120-3		V3.3.10	
RSE Test System						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	EMI Receiver	R&S	ESR26	101424	Nov. 25, 2025	Nov. 24, 2026
☒	Hybrid Antenna	Schwarzbeck	VULB9163	01361	May. 28, 2025	May. 27, 2026
☒	Hybrid Antenna	Schwarzbeck	VULB9163	01361	May. 26, 2026	May. 25, 2027
☒	Horn Antenna 1	Schwarzbeck	BBHA 9120 D	02910	Aug. 31, 2025	Aug. 30, 2026
☒	Horn Antenna 2	ETS	BBHA 9170	1090	Aug. 31, 2025	Aug. 30, 2026
☒	loop-antenna	Schwarzbeck	FMZB 1513-60	00030	Jan. 11, 2026	Jan. 10, 2027
☒	Test path	/	Path2: WIFI-2.4G 1-3GHz	/	Jul. 31, 2025	Jul. 30, 2026
☒	Test path	/	Path7: ALL PASS 1-18GHz	/	Jul. 31, 2025	Jul. 30, 2026
☒	Test path	/	Path9: 3GHz High PASS 3-18GHz	/	Jul. 31, 2025	Jul. 30, 2026
☒	Test path	/	Path16:	/	Jul. 31, 2025	Jul. 30, 2026

			30MHz-1GHz ALL PASS NO AMP			
☒	Signal Pre-Amplifier	ETS	3116C-PA	00217677	Jul. 31, 2025	Jul. 30, 2026
☒	3m Fully-anechoic Chamber	YIHENG	9m*6m*6m	001	Sep. 05, 2023	Sep. 04, 2026
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	Tonscend	TS+		V5.0.0.0	
Conducted Emission Test For AC Power Port						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	LISN	R&S	ENV216	102509	Aug. 01, 2025	Jul. 31, 2026
☒	EMI Receiver	R&S	ESR	102154	Aug. 01, 2025	Jul. 31, 2026
Software						
Used	Description	Manufacturer	Name		Version	
☒	Test software	EZ	EZ-EMC		EMEC-3A1	
Other Instrument						
Used	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Due. Date
☒	Temperature & Humidity	Temperature	HTC-1	/	Sep. 20, 2025	Sep. 21, 2026

8. On Time and Duty Cycle

8.1. Block diagram of test setup



Note: The EUT is connected to the Control unit, and then the signal is transmitted through internal circuits to the Spectrum Analyzer.

8.2. Limits

None; for reporting purposes only

8.3. Results

Test Mode	Ant.	Freq. (MHz)	ON Time (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)
DH5	Ant1	2402	2.88	5.00	57.60	2.40
		2441	2.88	5.00	57.60	2.40
		2480	2.88	5.00	57.60	2.40
2DH5	Ant1	2402	2.88	4.99	57.72	2.39
		2441	2.88	5.00	57.60	2.40
		2480	2.88	5.00	57.60	2.40
3DH5	Ant1	2402	2.88	5.01	57.49	2.40
		2441	2.88	5.00	57.60	2.40
		2480	2.88	5.00	57.60	2.40

Note1: Duty Cycle Correction Factor = 10log(1/x).
Note2: Offset=cable loss + Test system insertion loss
Where: x is Duty Cycle(Linear)
Where: T is On Time (transmit duration)
If that calculated VBW is not available on the analyzer, then the next higher value should be used.

8.4. Original test data

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



9. 20 dB Occupied Bandwidth and 99 % Occupied Bandwidth

9.1. Block diagram of test setup

Same as section 8.1

9.2. Limit

CFR 47 FCC Part15 (15.247) Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247 (a) (1)	20 dB Occupied Bandwidth	N/A	2400-2483.5
/	99 % Occupied Bandwidth	N/A	2400-2483.5

9.3. Test Procedure

Connect the UUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 20 dB Occupied Bandwidth: 1 % to 5 % of the 20 dB bandwidth For 99 % Occupied Bandwidth: 1 % to 5 % of the occupied bandwidth
VBW	For 20 dB Occupied Bandwidth: approximately 3×RBW For 99 % Occupied Bandwidth: ≥ 3×RBW
Span	approximately 2 to 3 times the 20 dB bandwidth
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB and 99 % relative to the maximum level measured in the fundamental emission.

9.4. Results

20 dB Occupied Bandwidth:

Test Mode	Ant.	Freq. (MHz)	20dB EBW (MHz)	FL (MHz)	FH (MHz)
DH5	Ant1	2402	0.852	2401.535	2402.387
		2441	0.855	2440.544	2441.399
		2480	0.867	2479.535	2480.402
2DH5	Ant1	2402	1.317	2401.337	2402.654
		2441	1.344	2440.322	2441.666
		2480	1.332	2479.325	2480.657
3DH5	Ant1	2402	1.317	2401.334	2402.651
		2441	1.296	2440.337	2441.633
		2480	1.344	2479.316	2480.660

Note: Offset=cable loss + Test system insertion loss

99 % Occupied Bandwidth

Test Mode	Ant.	Freq. (MHz)	OCB (MHz)	FL (MHz)	FH (MHz)
DH5	Ant1	2402	0.75146	2401.6119	2402.3634
		2441	0.75886	2440.6135	2441.3723
		2480	0.76016	2479.6093	2480.3694
2DH5	Ant1	2402	1.1855	2401.3971	2402.5826

3DH5	Ant1	2441	1.1884	2440.3972	2441.5856
		2480	1.1851	2479.3976	2480.5827
		2402	1.1816	2401.4013	2402.5829
		2441	1.1883	2440.3960	2441.5843
		2480	1.1854	2479.3986	2480.5840

Note: Offset=cable loss + Test system insertion loss

9.5. Original test data

20 dB Occupied Bandwidth:





2DH5_Ant1_2402



2DH5_Ant1_2441



2DH5_Ant1_2480



3DH5_Ant1_2402



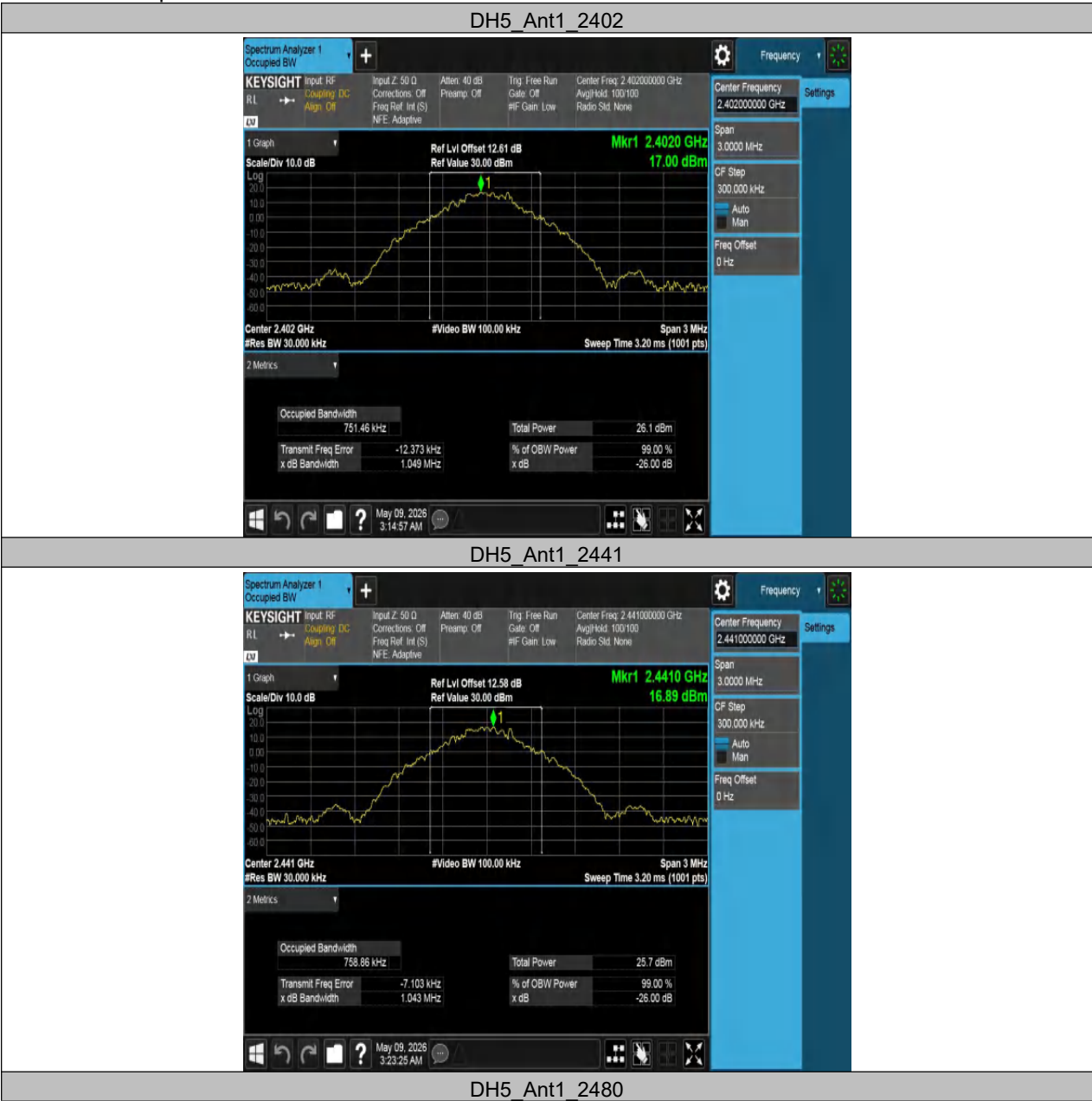
3DH5_Ant1_2441



3DH5_Ant1_2480



99 % Occupied bandwidth:





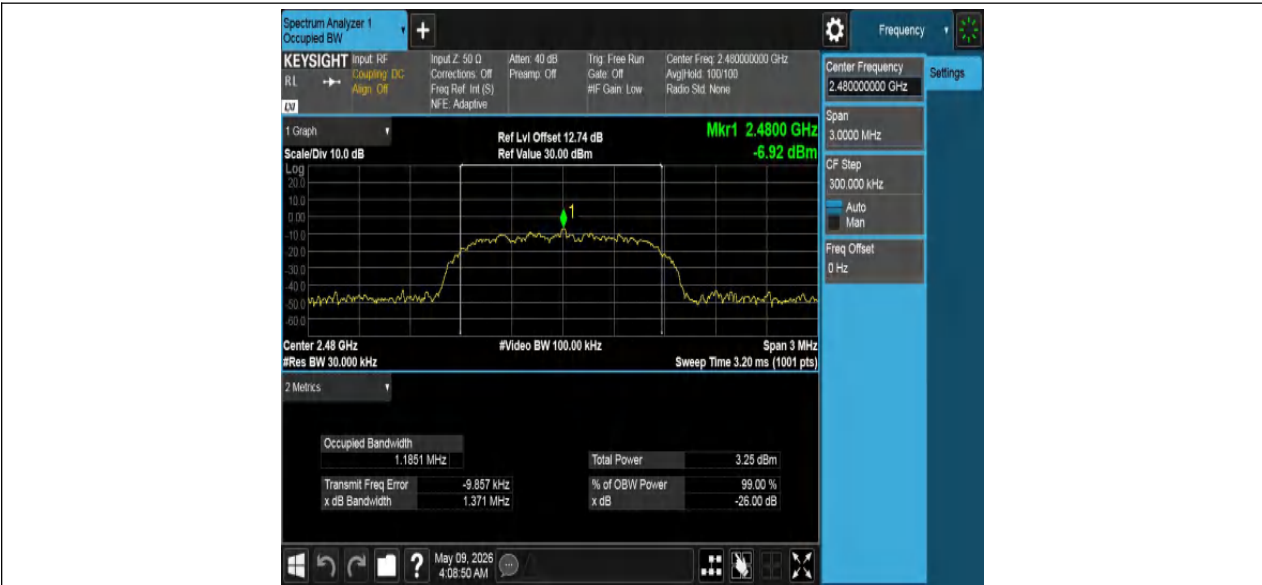
2DH5_Ant1_2402



2DH5_Ant1_2441



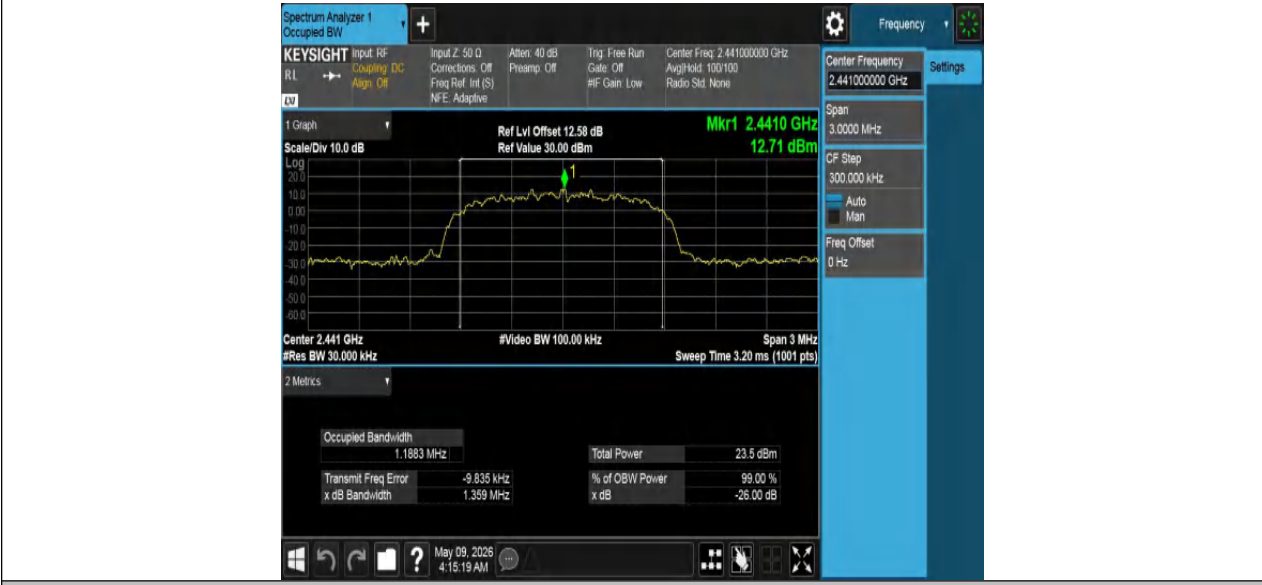
2DH5_Ant1_2480



3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



10. Conducted Output Power

10.1. Block diagram of test setup

Same as section 8.1

10.2. Limits

CFR 47 FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247 (b) (1)	Peak Conducted Output Power	Hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel: 1 watt or 30dBm; Hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel : 125 mW or 21dBm The e.i.r.p. shall not exceed 4 W	2400-2483.5

10.3. Test Procedure

The following procedure shall be used when an instrument with a resolution bandwidth that is greater than the DTS bandwidth is available to perform the measurement:

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	RBW $\geq$ DTS bandwidth
VBW	VBW $\geq 3 \times$ RBW
Span	Span $\geq 3 \times$ RBW
Trace	Max hold
Sweep	Auto couple

10.4. Results

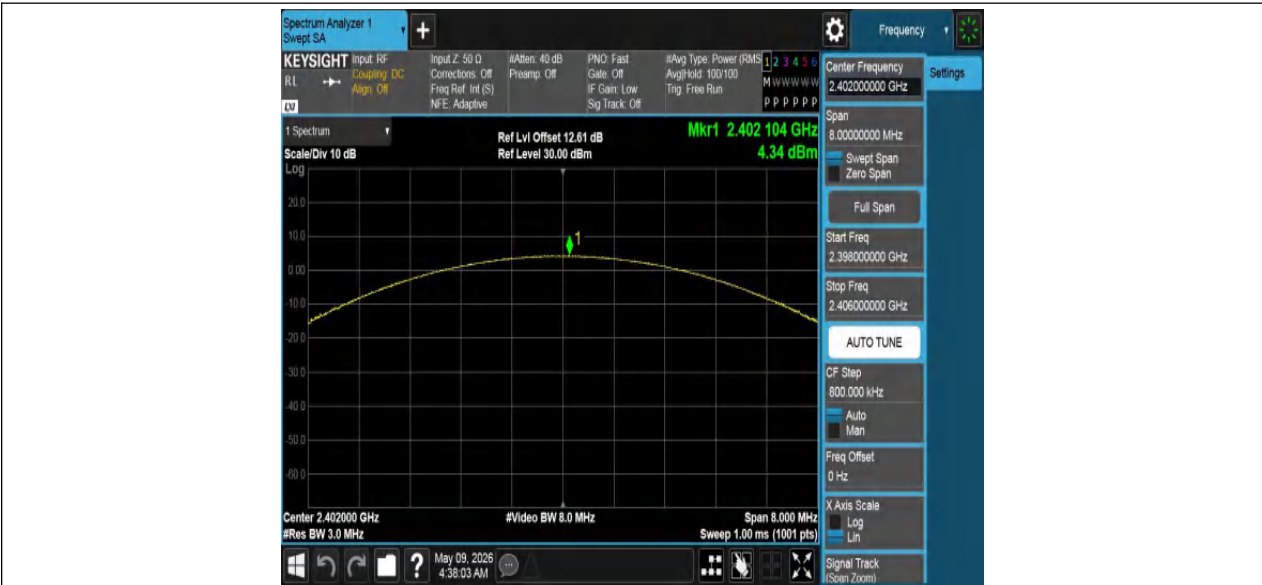
Test Mode	Ant.	Freq. (MHz)	Conducted Peak Power (dBm)	Conducted Limit (dBm)	Verdict
DH5	Ant1	2402	4.34	≤ 30	PASS
		2441	4.28	≤ 30	PASS
		2480	4.36	≤ 30	PASS
2DH5	Ant1	2402	3.56	≤ 20.97	PASS
		2441	3.48	≤ 20.97	PASS
		2480	3.72	≤ 20.97	PASS
3DH5	Ant1	2402	3.94	≤ 20.97	PASS
		2441	4.00	≤ 20.97	PASS
		2480	4.40	≤ 20.97	PASS

Note1: The EIRP = Peak Power + Ant. Gain

Note2: Offset=cable loss + Test system insertion loss

10.5. Original test data

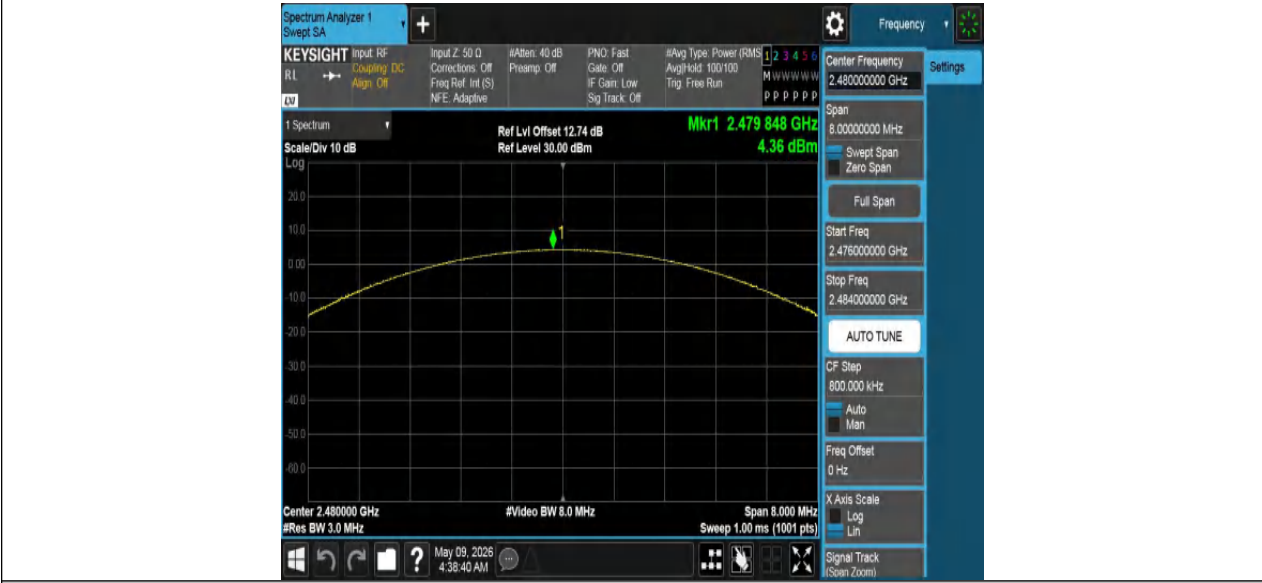
DH5_Ant1_2402



DH5_Ant1_2441



DH5_Ant1_2480



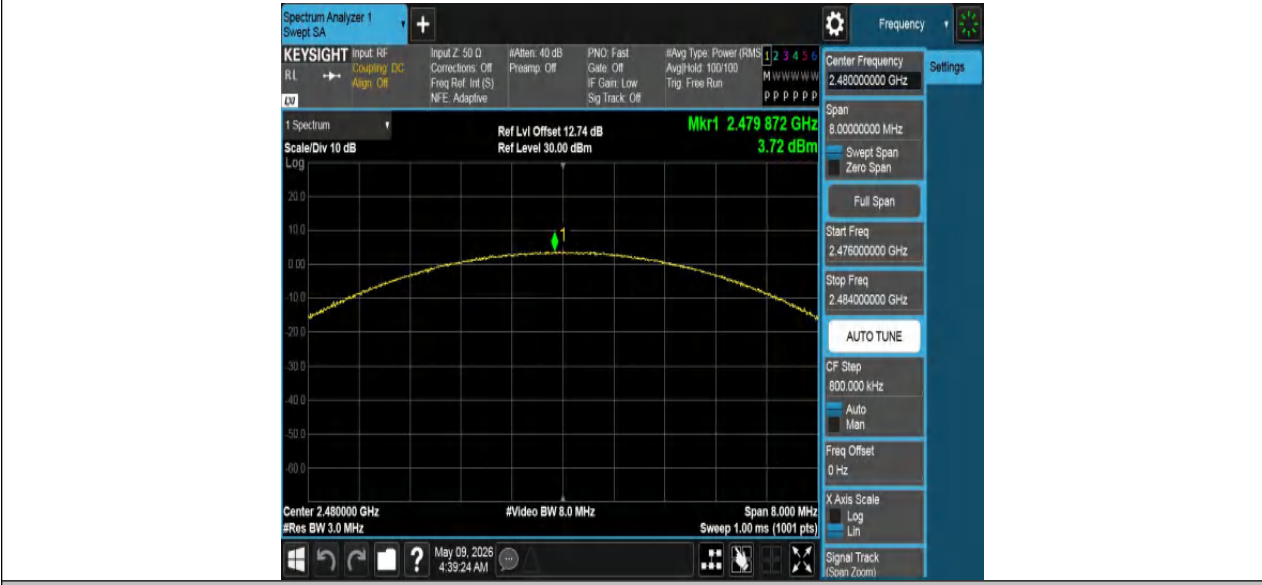
2DH5_Ant1_2402



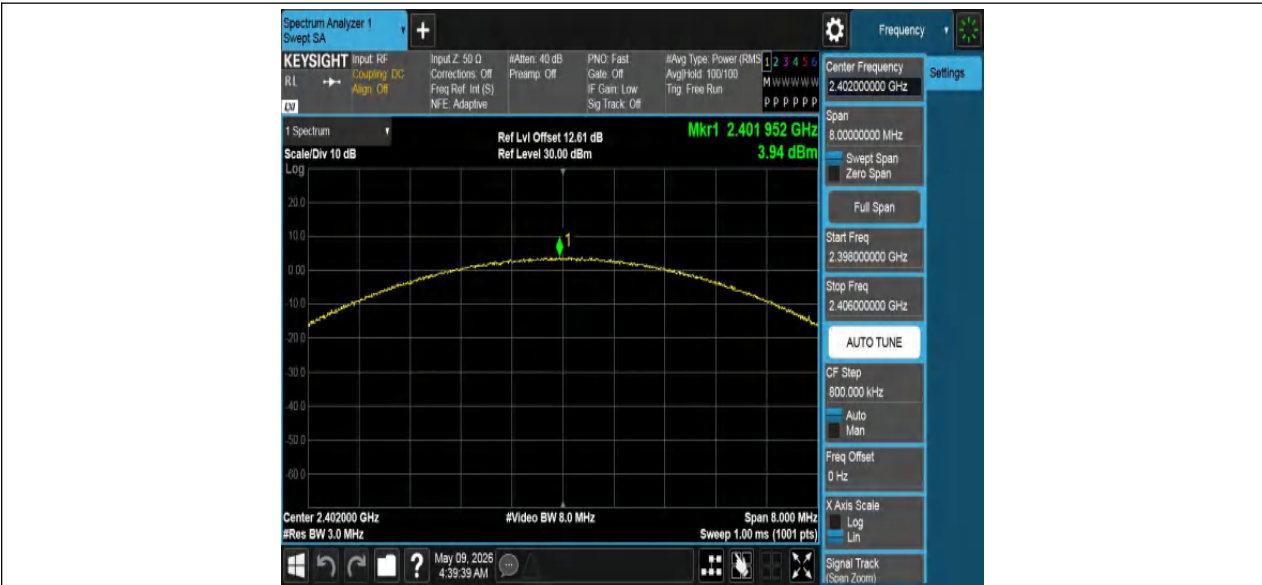
2DH5_Ant1_2441



2DH5_Ant1_2480



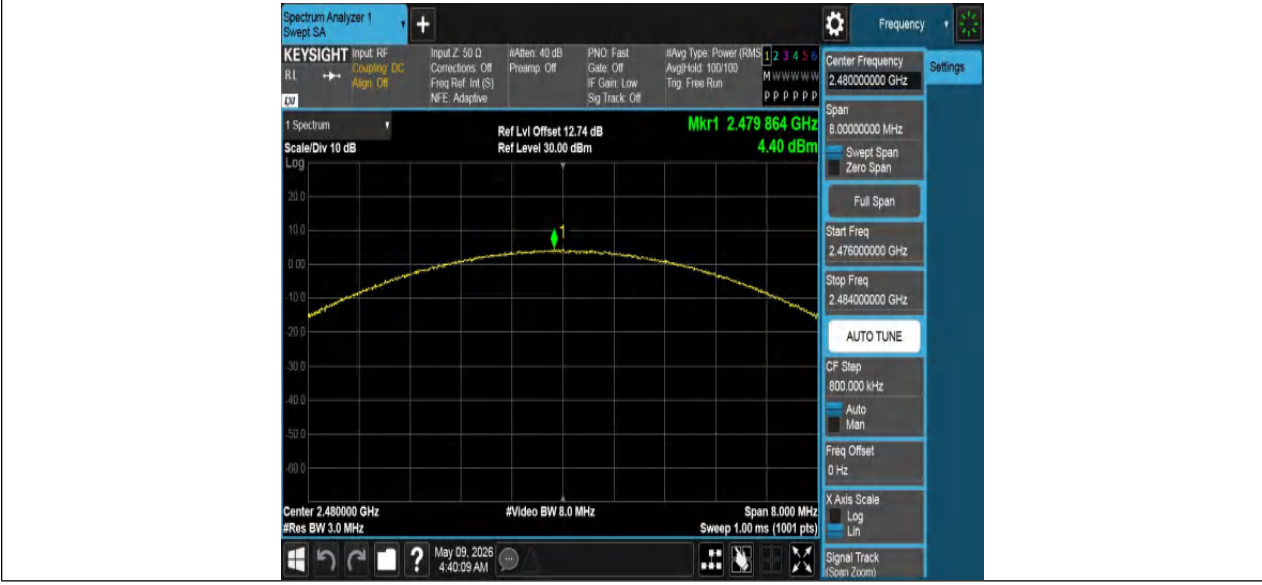
3DH5_Ant1_2402



3DH5_Ant1_2441



3DH5_Ant1_2480



11. Carrier Hopping Channel Separation

11.1. Block diagram of test setup

Same as section 8.1

11.2. Limits

CFR 47 FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
CFR 47 FCC 15.247 (a) (1)	Carrier Hopping Channel Separation	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, 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.	2400-2483.5

11.3. Test Procedure

Connect the UUT to the spectrum Analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Span	wide enough to capture the peaks of two adjacent channels
Detector	Peak
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.
VBW	≥ RBW
Trace	Max hold
Sweep time	Auto couple

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

Compliance of an EUT with the appropriate regulatory limit shall be determined.

A plot of the data shall be included in the test report.

11.4. Results

Test Mode	Ant.	Freq. (MHz)	Result (MHz)	Limit (MHz)	Verdict
DH5	Ant1	Hop	1	≥0.867	PASS
2DH5	Ant1	Hop	1.052	≥0.896	PASS
3DH5	Ant1	Hop	0.932	≥0.896	PASS

Note: Offset=cable loss + Test system insertion loss

11.5. Original test data

DH5_Ant1_Hop



2DH5_Ant1_Hop



3DH5_Ant1_Hop



12. Number of Hopping Frequency

12.1. Block diagram of test setup

Same as section 8.1

12.2. Limits

CFR 47 FCC Part15 (15.247), Subpart C		
Section	Test Item	Limit
CFR 47 15.247 (a) (1) III	Number of Hopping Frequency	at least 15 hopping channels

12.3. Test Procedure

Connect the EUT to the spectrum Analyzer and use the following settings:

Detector	Peak
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.
VBW	≥RBW
Span	The frequency band of operation
Trace	Max hold
Sweep time	Auto couple

Set EUT to transmit maximum output power and switch on frequency hopping function. then set enough count time (larger than 5000 times) to get all the hopping frequency channel displayed on the screen of spectrum analyzer.

Count the quantity of peaks to get the number of hopping channels.

FHSS Mode: 79 Channels observed.

AFHSS Mode: 20 Channels declared.

12.4. Results

Test Mode	Ant.	Freq. (MHz)	Result (Num)	Limit (Num)	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Note: Offset=cable loss + Test system insertion loss

12.5. Original test data

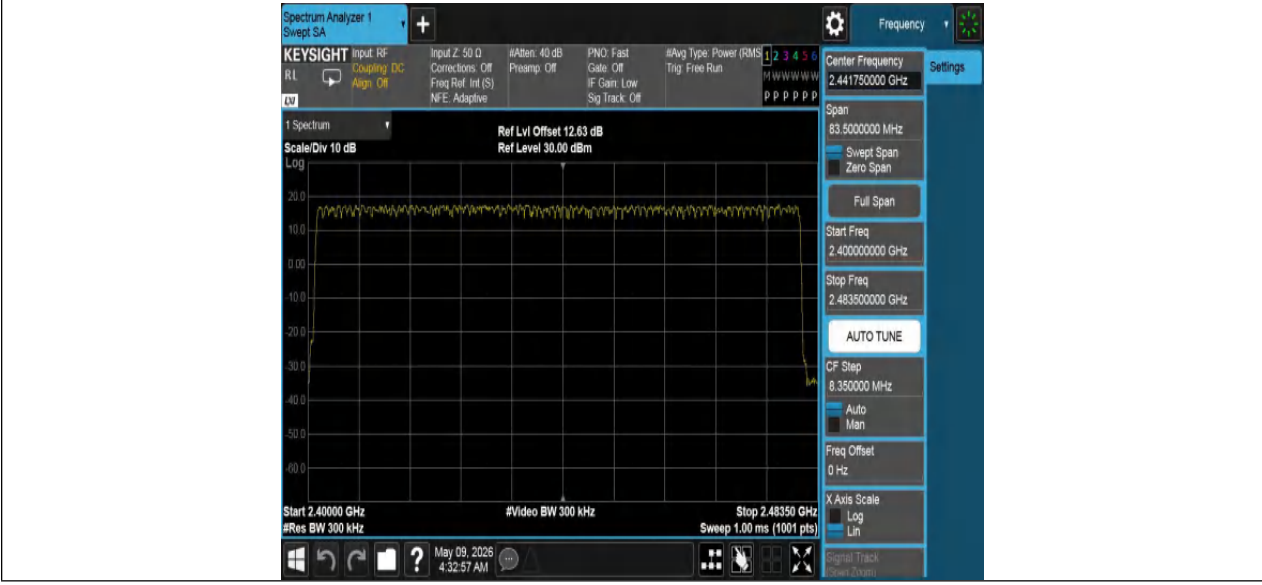
DH5_Ant1_Hop



2DH5 Ant1 Hop



3DH5 Ant1 Hop



13. Time of Occupancy (Dwell Time)

13.1. Block diagram of test setup

Same as section 8.1

13.2. Limits

CFR 47 FCC Part15 (15.247), Subpart C		
Section	Test Item	Limit
CFR 47 15.247 (a) (1) III	Time of Occupancy (Dwell Time)	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.

13.3. Test Procedure

Connect the UUT to the spectrum analyzer and use the following settings:

Center Frequency	The center frequency of the channel under test
Detector	Average
RBW	1 MHz
VBW	≥ RBW
Span	zero span
Trace	Clear Write
Sweep time	As necessary to capture the entire dwell time per hopping channel

Connect the UUT to the spectrum Analyzer and use the following settings:

- The transmitter output (antenna port) was connected to the spectrum analyzer
 - Set RBW of spectrum analyzer to 1 MHz and VBW to 3 MHz.
 - Use a video trigger with the trigger level set to enable triggering only on full pulses.
 - Sweep Time is more than once pulse time.
 - Set the center frequency on any frequency would be measure and set the frequency span to zero span.
 - Measure the maximum time duration of one single pulse.
 - Set the EUT for DH5, DH3 and DH1 packet transmitting.
 - Measure the maximum time duration of one single pulse.
- A Period Time = (channel number)*0.4
 For FHSS Mode (79 Channel):
 DH1 Time Slot: Reading * (1600/2)*31.6/(channel number)
 DH3 Time Slot: Reading * (1600/4)*31.6/(channel number)
 DH5 Time Slot: Reading * (1600/6)*31.6/(channel number)

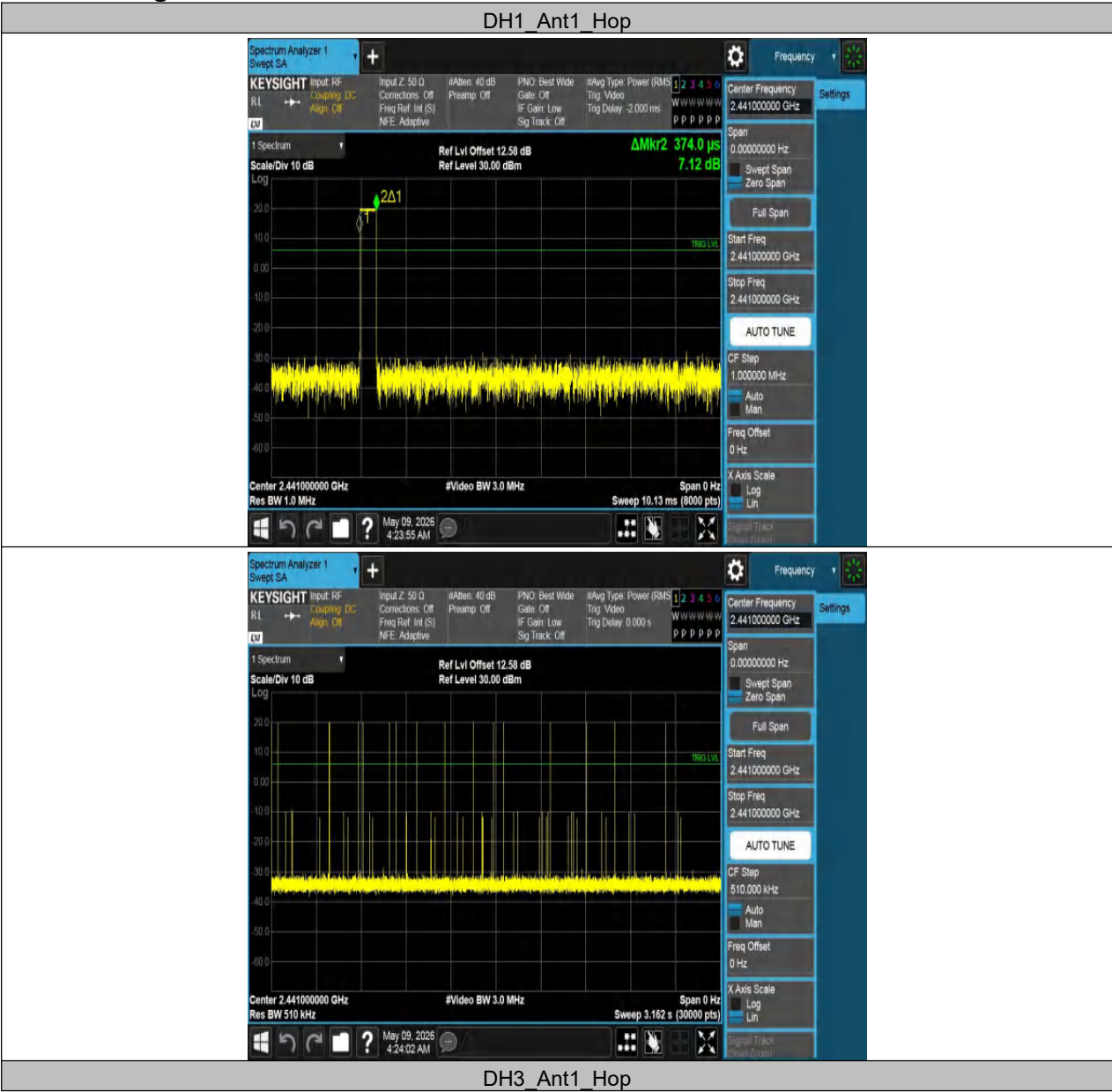
13.4. Results

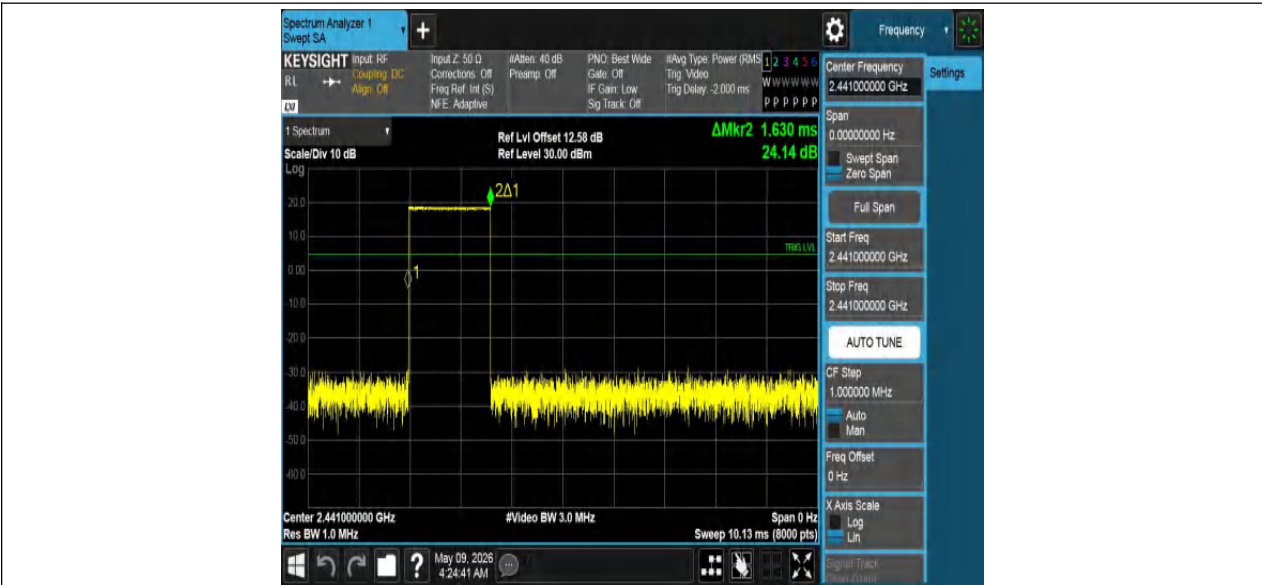
Test Mode	Ant.	Freq. (MHz)	Burst Width (ms)	Total Hops (Num)	Result (s)	Limit (s)	Verdict
DH1	Ant1	Hop	0.374	160	0.06	≤0.4	PASS
DH3	Ant1	Hop	1.630	150	0.245	≤0.4	PASS
DH5	Ant1	Hop	2.878	80	0.23	≤0.4	PASS
2DH1	Ant1	Hop	0.381	210	0.08	≤0.4	PASS
2DH3	Ant1	Hop	1.634	150	0.245	≤0.4	PASS
2DH5	Ant1	Hop	2.882	30	0.086	≤0.4	PASS
3DH1	Ant1	Hop	0.383	190	0.073	≤0.4	PASS
3DH3	Ant1	Hop	1.633	190	0.31	≤0.4	PASS

3DH5	Ant1	Hop	2.883	80	0.231	≤0.4	PASS
------	------	-----	-------	----	-------	------	------

Note: Offset=cable loss + Test system insertion loss

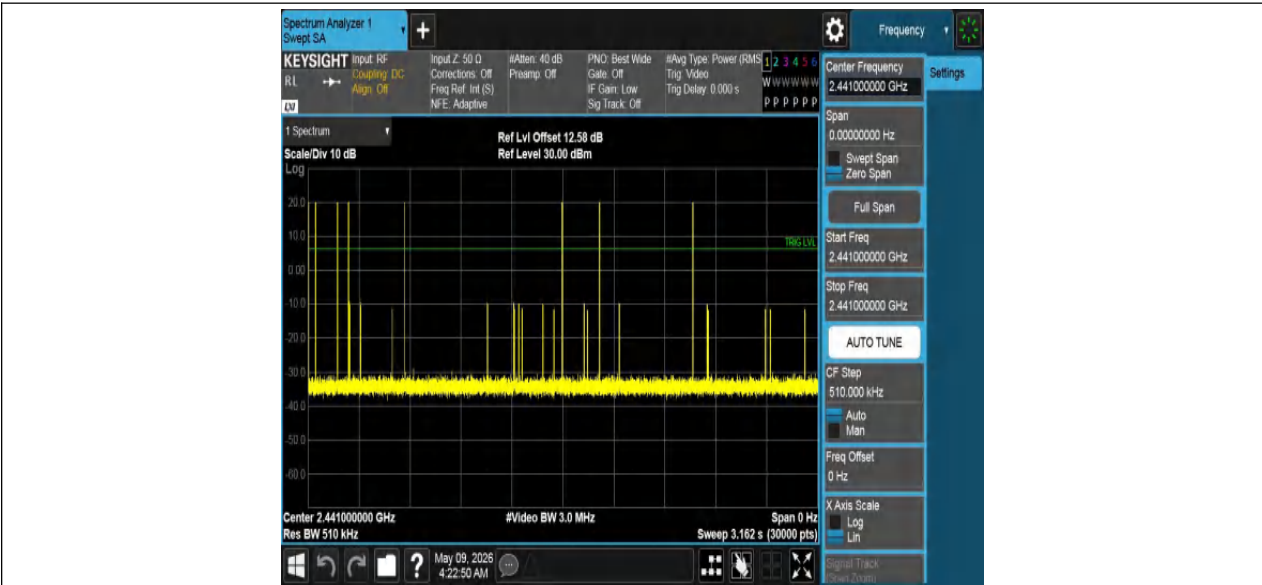
13.5. Original test data





DH5_Ant1_Hop





2DH1_Ant1_Hop



2DH3_Ant1_Hop



2DH5_Ant1_Hop





3DH1_Ant1_Hop



3DH3_Ant1_Hop





14. Conducted Spurious Emission

14.1. Block diagram of test setup

Same as section 8.1

14.2. Limits

CFR 47 FCC Part15 (15.247), Subpart C		
Section	Test Item	Limit
CFR 47 FCC §15.247 (d)	Conducted Spurious Emission	at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power

14.3. Test Procedure

Please refer to the ANSI C63.10 section 6.10.

For Band edge use the following settings:

Detector	Peak
RBW	100 kHz
VBW	300 kHz
Span	wide enough to fully capture the emission being measured
Trace	Max hold
Sweep time	Auto couple.

For Spurious Emission use the following settings:

Detector	Peak
RBW	100 kHz
VBW	300 kHz
Span	wide enough to fully capture the emission being measured
Trace	Max hold
Sweep time	Auto couple.

Use the peak marker function to determine the maximum amplitude level.

14.4. Results

Band edge:

Test Mode	Ant.	Ch Name	Freq. (MHz)	Ref Level (dBm)	Result (dBm)	Limit (dBm)	Verdict
DH5	Ant1	Low	2402	0.91	-46.83	≤-19.09	PASS
		High	2480	1.23	-46.3	≤-18.77	PASS
		Low	Hop_2402	5.05	-46.67	≤-14.95	PASS
		High	Hop_2480	5.29	-46.8	≤-14.71	PASS
2DH5	Ant1	Low	2402	-5.52	-47.92	≤-25.52	PASS
		High	2480	-4.99	-47.72	≤-24.99	PASS
		Low	Hop_2402	2.07	-46.03	≤-17.93	PASS
		High	Hop_2480	2.74	-45.83	≤-17.26	PASS
3DH5	Ant1	Low	2402	2.44	-46.78	≤-17.57	PASS
		High	2480	-6.48	-47.19	≤-26.48	PASS
		Low	Hop_2402	1.68	-46.6	≤-18.32	PASS
		High	Hop_2480	3.31	-45.48	≤-16.69	PASS

Note: Offset=cable loss + Test system insertion loss

Spurious Emission:

Test Mode	Ant.	Freq. (MHz)	Freq. Range (MHz)	Ref Level (dBm)	Result (dBm)	Limit (dBm)	Verdict
DH5	Ant1	2402	Reference	0.26	0.26	---	PASS
			30~1000	0.26	-61.4	≤-29.74	PASS
			1000~26500	0.26	-45.31	≤-29.74	PASS
		2441	Reference	0.42	0.42	---	PASS
			30~1000	0.42	-61.08	≤-29.58	PASS
			1000~26500	0.42	-46.24	≤-29.58	PASS
		2480	Reference	0.49	0.49	---	PASS
			30~1000	0.49	-60.5	≤-29.51	PASS
			1000~26500	0.49	-46.93	≤-29.51	PASS
2DH5	Ant1	2402	Reference	-6.09	-6.09	---	PASS
			30~1000	-6.09	-61.26	≤-26.09	PASS
			1000~26500	-6.09	-46.25	≤-26.09	PASS
		2441	Reference	-6.01	-6.01	---	PASS
			30~1000	-6.01	-59.47	≤-26.01	PASS
			1000~26500	-6.01	-47.14	≤-26.01	PASS
		2480	Reference	-5.49	-5.49	---	PASS
			30~1000	-5.49	-60.81	≤-25.49	PASS
			1000~26500	-5.49	-46.46	≤-25.49	PASS
3DH5	Ant1	2402	Reference	0.25	0.25	---	PASS
			30~1000	0.25	-60.67	≤-29.75	PASS
			1000~26500	0.25	-45.25	≤-29.75	PASS
		2441	Reference	0.34	0.34	---	PASS
			30~1000	0.34	-59.26	≤-29.66	PASS
			1000~26500	0.34	-45.56	≤-29.66	PASS
		2480	Reference	-4.43	-4.43	---	PASS
			30~1000	-4.43	-60.78	≤-24.43	PASS
			1000~26500	-4.43	-45.74	≤-24.43	PASS

Note: Offset=cable loss + Test system insertion loss

14.5. Original test data

Band edge:





2DH5 Ant1 Low 2402

Spectrum Analyzer 1

Sweep SA

KEYSIGHT

Input RF

RL

→

Display ITC

Align Off

Input Z: 50 Ω

Corrections Off

Freq Ref Int (S)

NFE Adaptive

Attenu: 30 dB

Preamp Off

PNO: Fast

Gate Off

IF Gain Low

Sig Track Off

AVG Type: Power (RMS)

1 2 3 4 5 6

AVG Hold: 100/100

Trig: Free Run

Center Frequency

2.352500000 GHz

Settings

Span

105.0000000 MHz

Sweep Span

Zero Span

Full Span

Start Freq

2.300000000 GHz

Stop Freq

2.405000000 GHz

AUTO TUNE

CF Step

10.5000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

1 Spectrum

Ref Lvl Offset 12.61 dB

Mkr5 2.373 080 GHz

-47.92 dBm

Ref Level 20.00 dBm

Oct: 35.52 dBm

Start 2.30000 GHz

#Video BW 300 kHz

Stop 2.40500 GHz

#Res BW 100 kHz

Sweep 3.87 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.402 060 GHz	-5.515 dBm		
2	N	1	f	2.400 000 GHz	-49.94 dBm		
3	N	1	f	2.390 000 GHz	-50.14 dBm		
4	N	1	f	2.310 000 GHz	-49.08 dBm		
5	N	1	f	2.373 080 GHz	-47.92 dBm		
6							

May 09, 2026

4:02:37 AM

2DH5 Ant1 High 2480

Spectrum Analyzer 1

Sweep SA

KEYSIGHT

Input RF

RL

→

Display ITC

Align Off

Input Z: 50 Ω

Corrections Off

Freq Ref Int (S)

NFE Adaptive

Attenu: 30 dB

Preamp Off

PNO: Fast

Gate Off

IF Gain Low

Sig Track Off

AVG Type: Power (RMS)

1 2 3 4 5 6

AVG Hold: 100/100

Trig: Free Run

Center Frequency

2.510000000 GHz

Settings

Span

80.0000000 MHz

Sweep Span

Zero Span

Full Span

Start Freq

2.470000000 GHz

Stop Freq

2.550000000 GHz

AUTO TUNE

CF Step

8.0000000 MHz

Auto

Man

Freq Offset

0 Hz

X Axis Scale

Log

Lin

Signal Track

(Span Zoom)

1 Spectrum

Ref Lvl Offset 12.74 dB

Mkr4 2.513 76 GHz

-47.72 dBm

Ref Level 20.00 dBm

Oct: 34.99 dBm

Start 2.47000 GHz

#Video BW 300 kHz

Stop 2.55000 GHz

#Res BW 100 kHz

Sweep 3.00 ms (1001 pts)

5 Marker Table

Mode	Trace	Scale	X	Y	Function	Function Width	Function Value
1	N	1	f	2.480 08 GHz	-4.993 dBm		
2	N	1	f	2.483 50 GHz	-50.88 dBm		
3	N	1	f	2.500 00 GHz	-49.92 dBm		
4	N	1	f	2.513 76 GHz	-47.72 dBm		
5							
6							

May 09, 2026

4:08:56 AM

2DH5 Ant1 Low Hop 2402



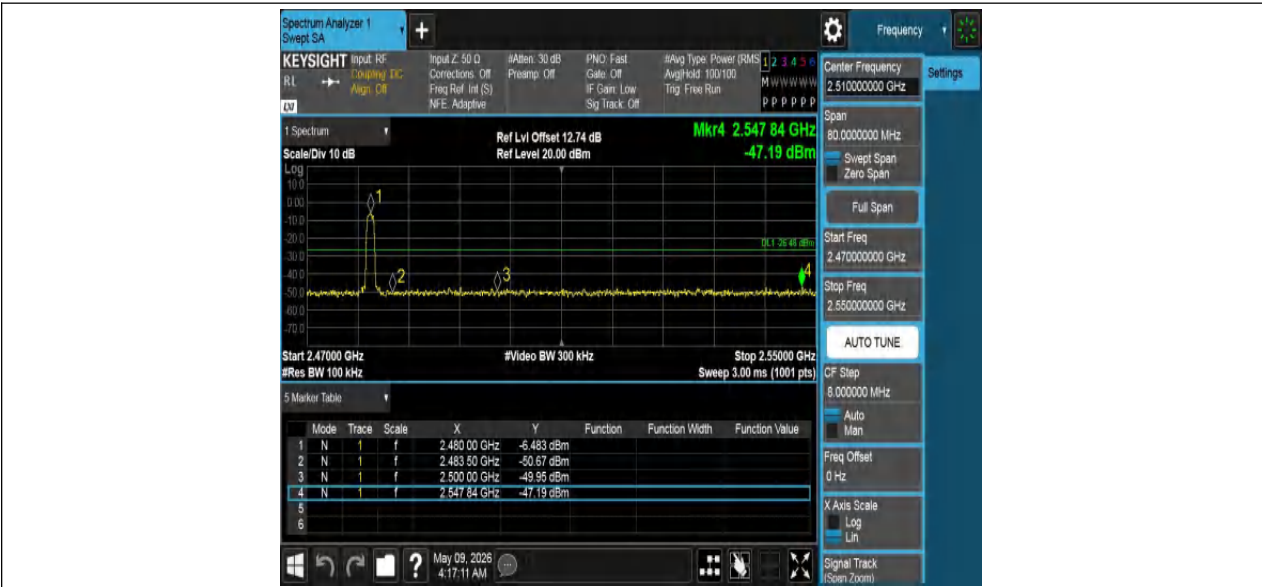
2DH5 Ant1_High_Hop_2480



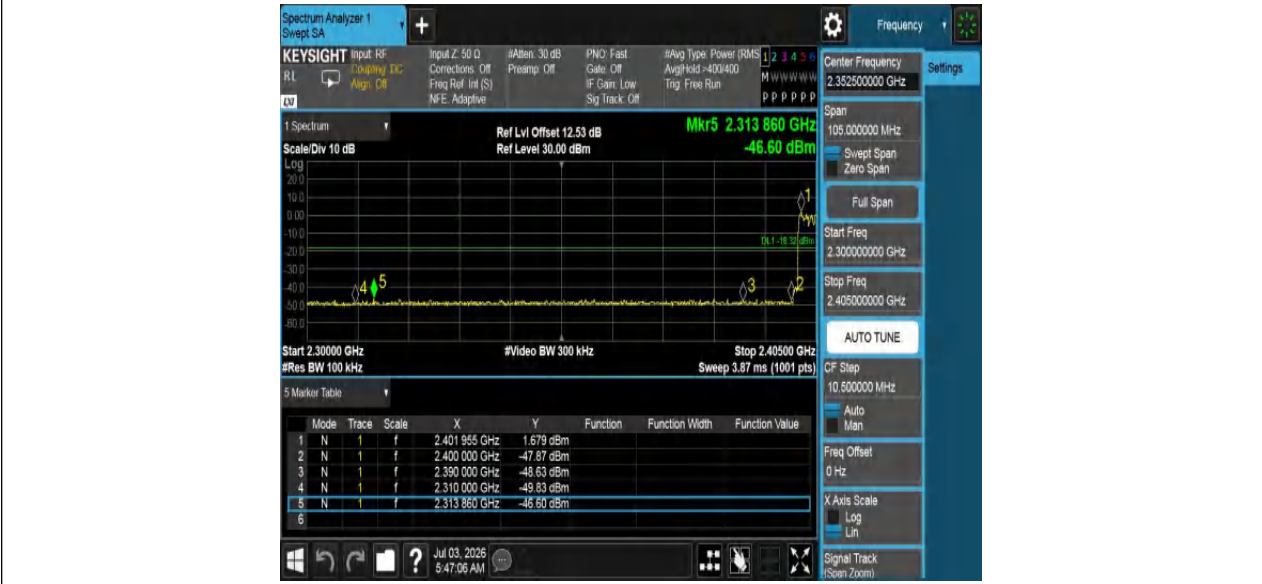
3DH5 Ant1_Low_2402



3DH5 Ant1_High_2480



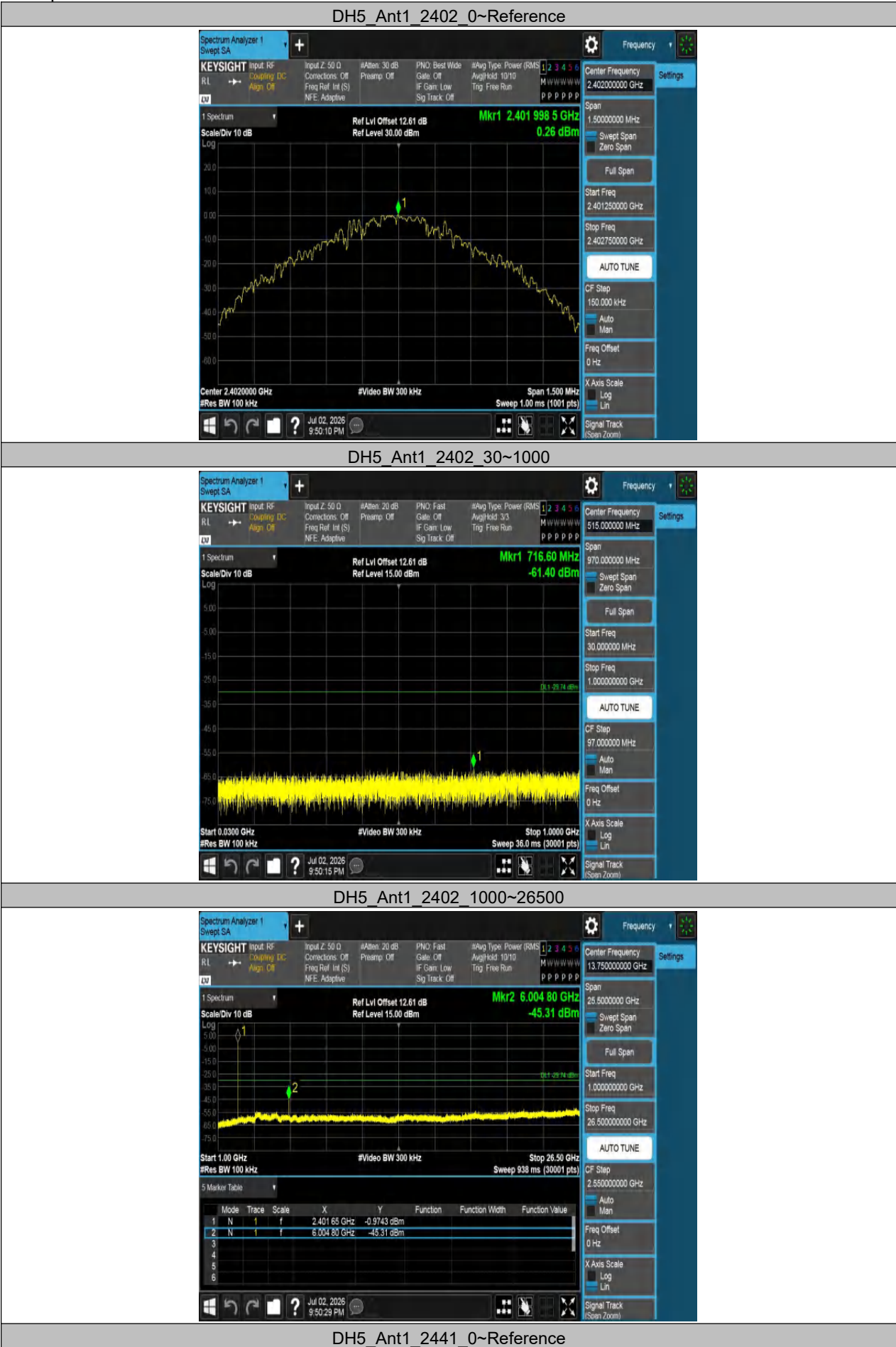
3DH5_Ant1_Low_Hop_2402



3DH5_Ant1_High_Hop_2480

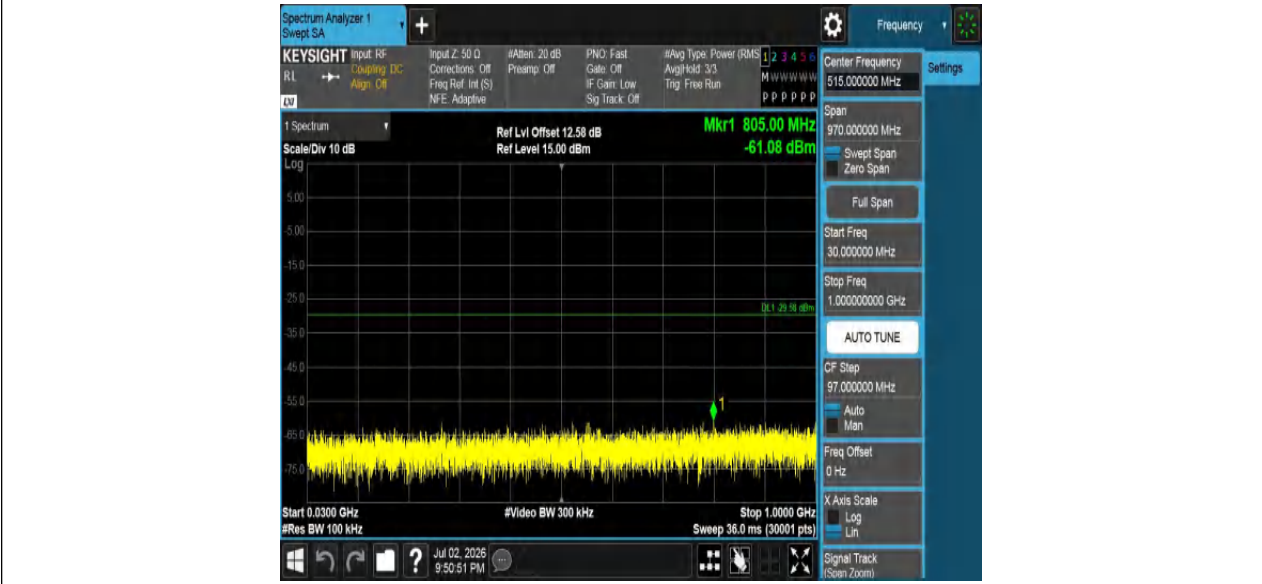


Spurious Emission:





DH5_Ant1_2441_30~1000



DH5_Ant1_2441_1000~26500



DH5_Ant1_2480_0~Reference



DH5_Ant1_2480_30~1000



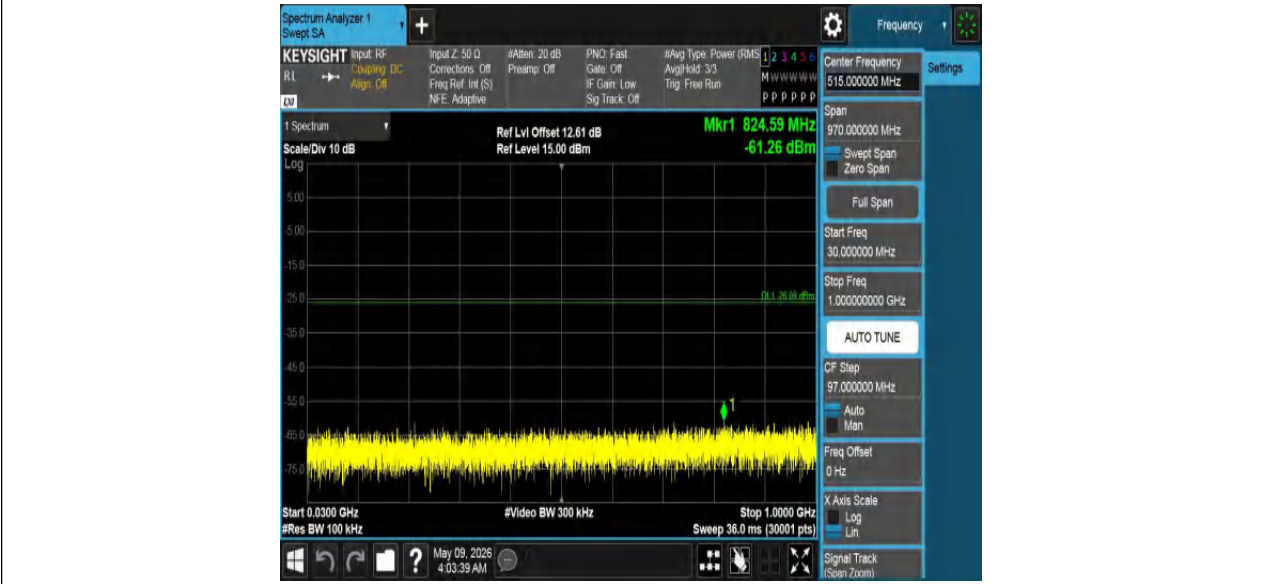
DH5_Ant1_2480_1000~26500



2DH5_Ant1_2402_0~Reference



2DH5_Ant1_2402_30~1000



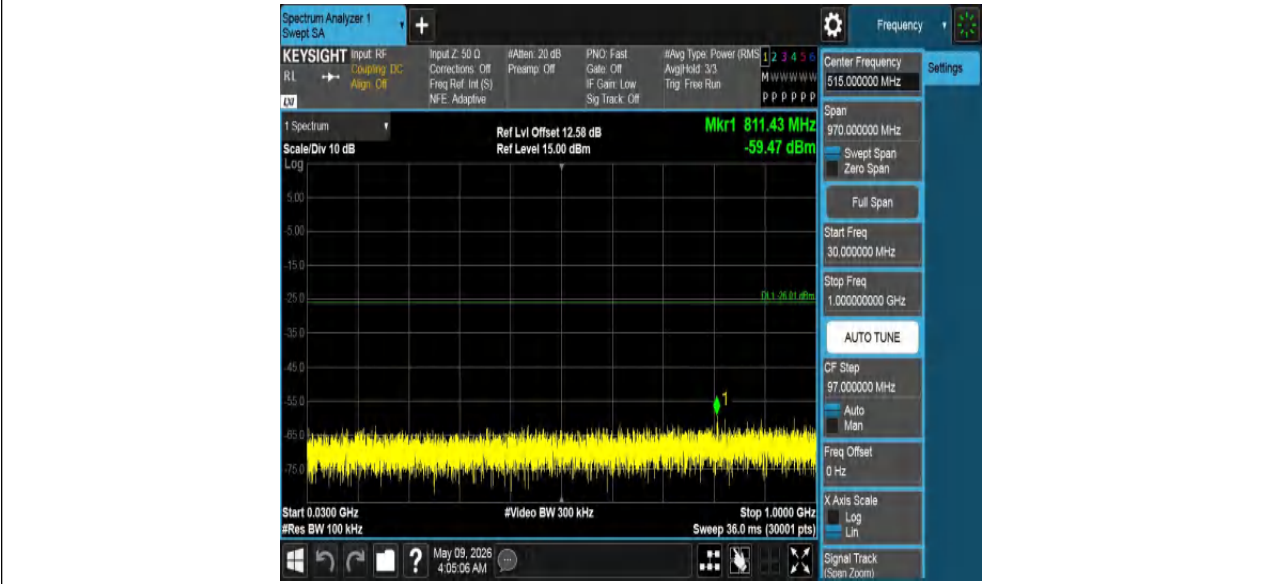
2DH5_Ant1_2402_1000~26500



2DH5_Ant1_2441_0~Reference



2DH5_Ant1_2441_30~1000



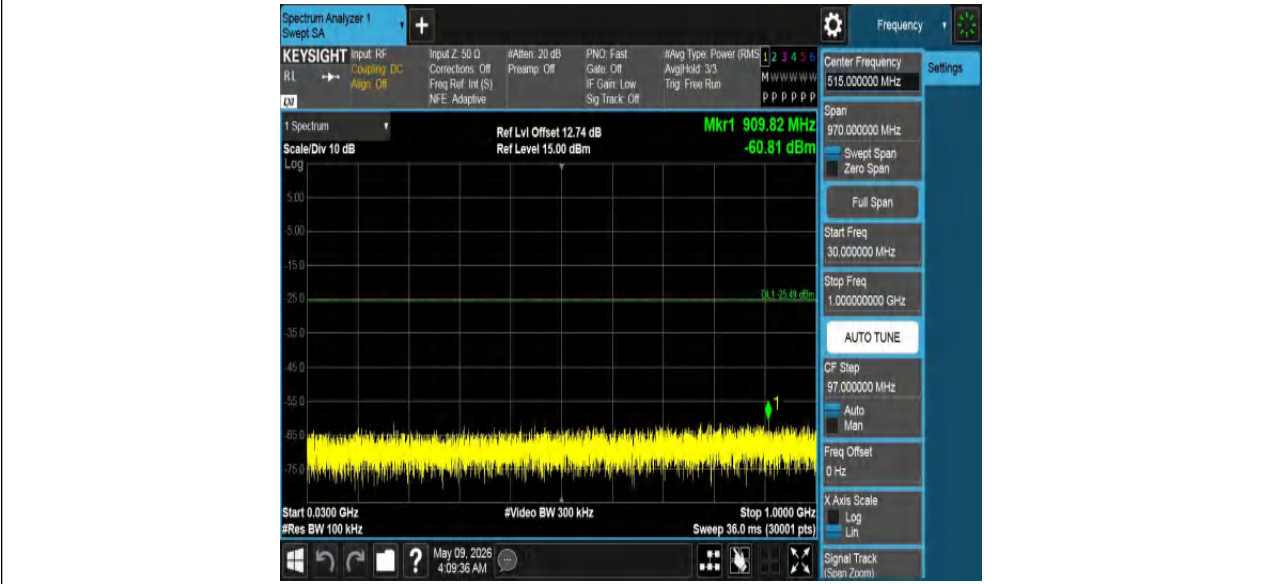
2DH5_Ant1_2441_1000~26500



2DH5_Ant1_2480_0~Reference



2DH5_Ant1_2480_30~1000



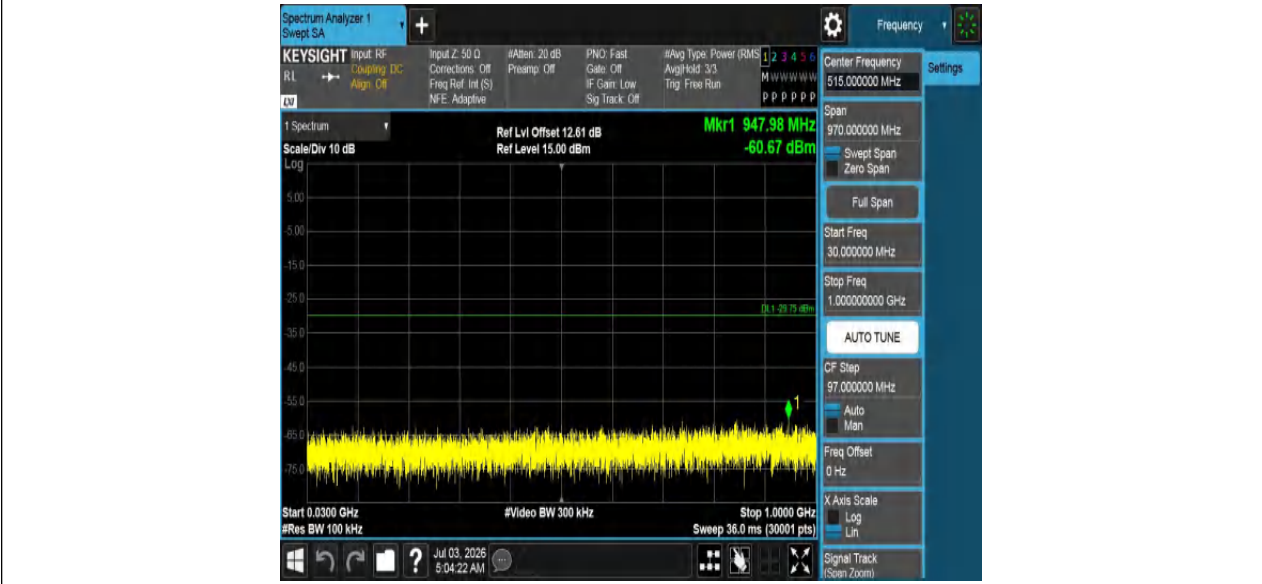
2DH5_Ant1_2480_1000~26500



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



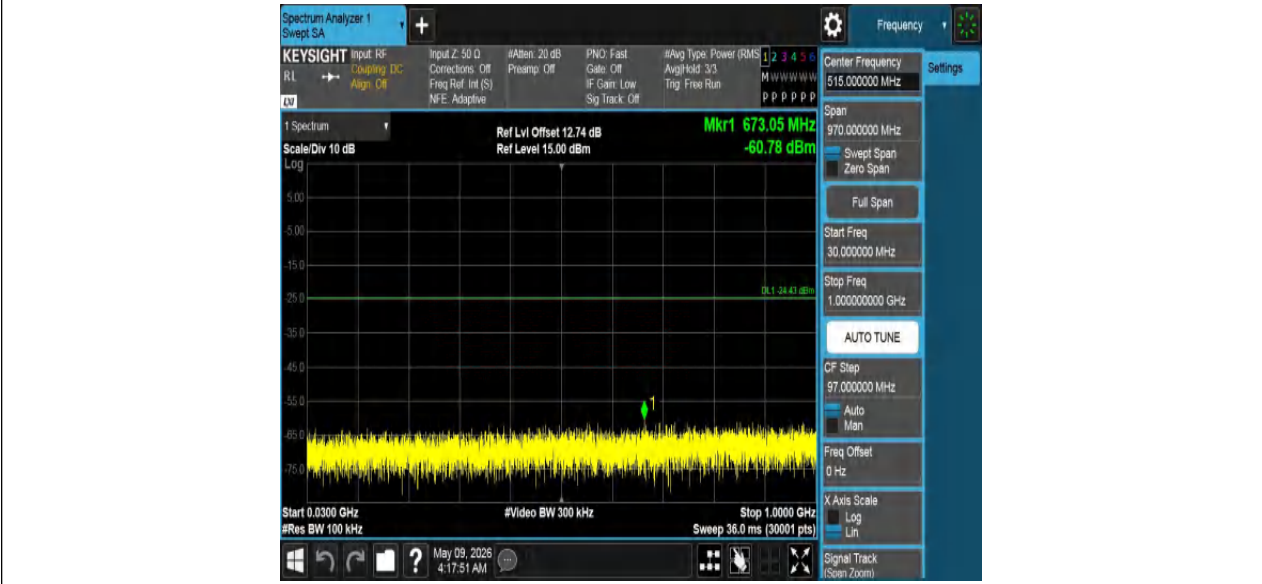
3DH5 Ant1 2441 1000~26500



3DH5 Ant1 2480 0~Reference



3DH5_Ant1_2480_30~1000



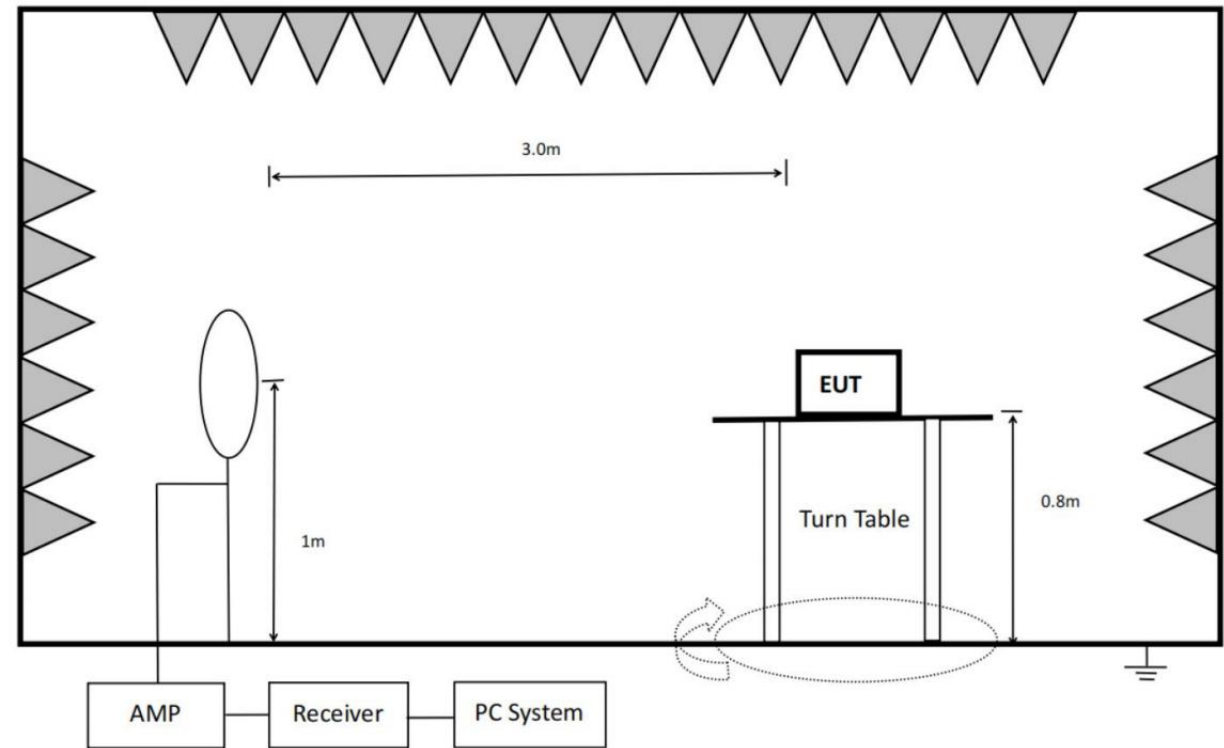
3DH5_Ant1_2480_1000~26500



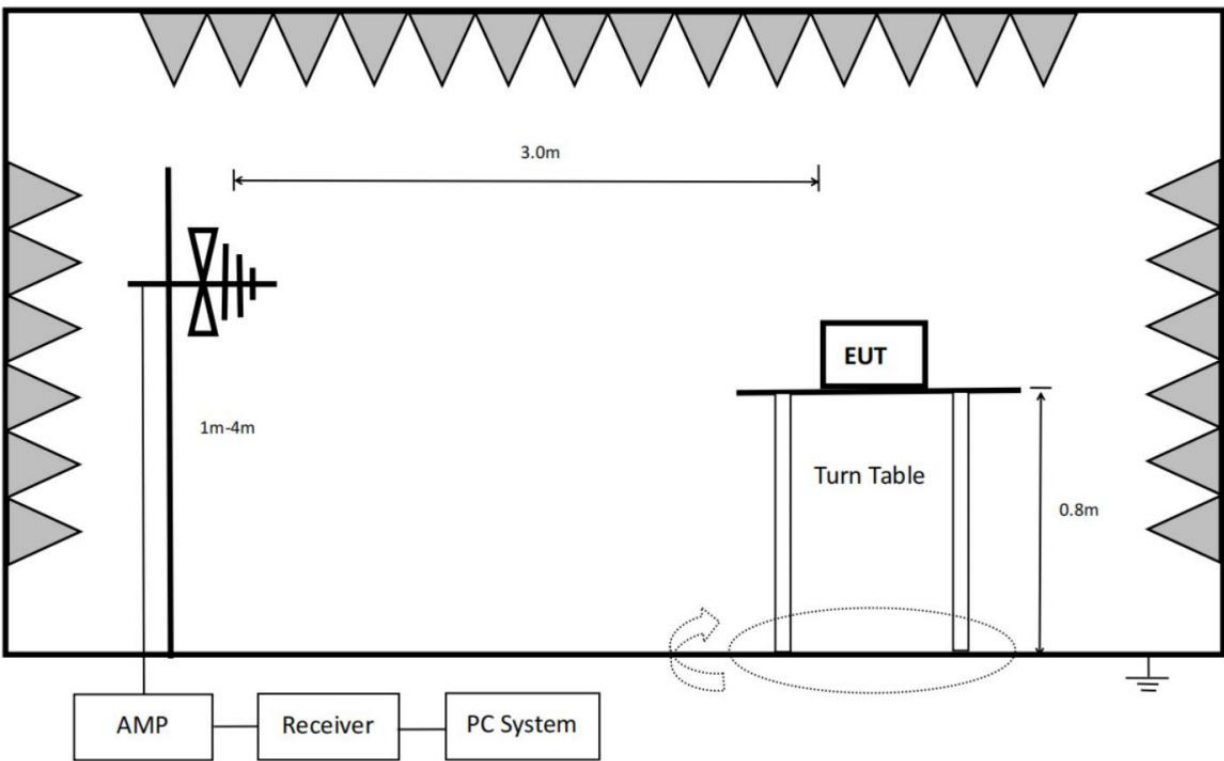
15. Radiated Emission

15.1. Block diagram of test setup

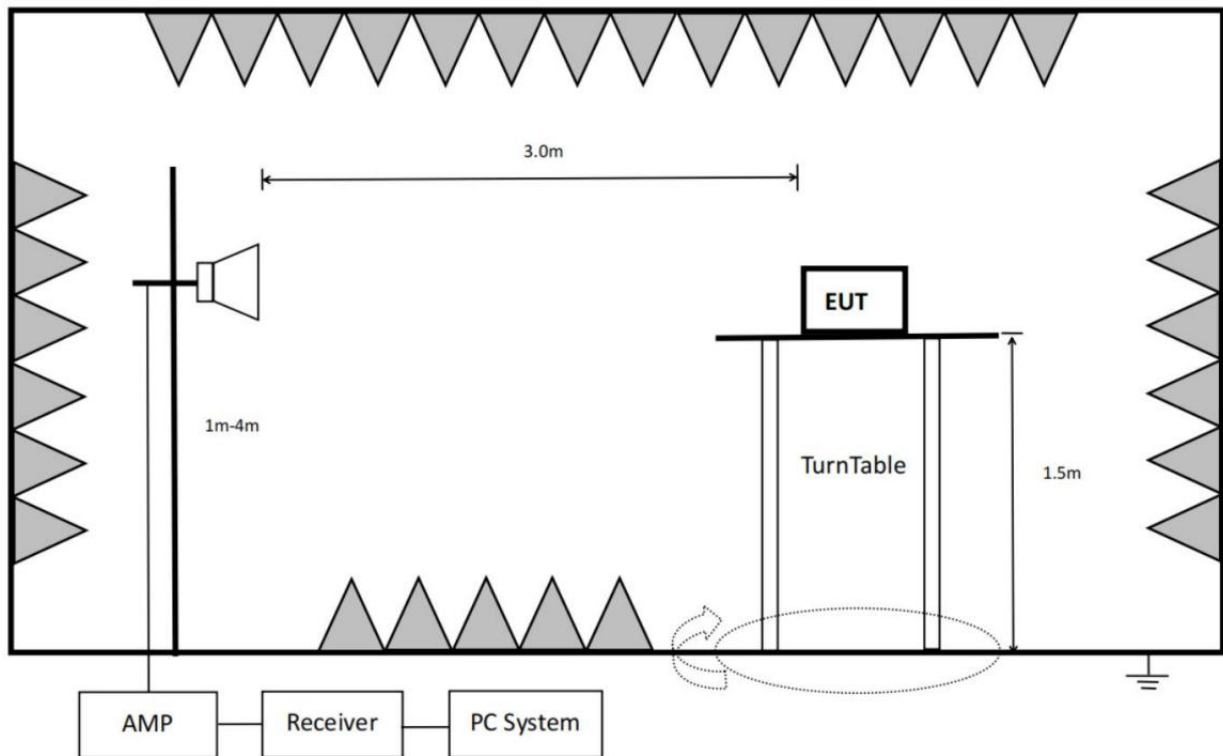
In 3m Anechoic Chamber, test setup diagram for 9kHz - 30MHz:



In 3m Anechoic Chamber, test setup diagram for 30 MHz - 1 GHz:



In 3m Anechoic Chamber, test setup diagram for frequency above 1 GHz:



Note: For harmonic emissions test a band rejection filter was inserted in the input port of AMP.

15.2. Limit

(1) FCC 15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41	/	/	/

(2) FCC 15.209 Limit.

Frequency MHz	Distance Meters	Field strengths limit		
		$\mu\text{V/m}$	$\text{dB}(\mu\text{V})/\text{m}$	$\mu\text{A/m}$

0.009 ~ 0.490	300	2400/F(kHz)	67.6-20log(F)	6.37/F (F in kHz)
0.490 ~ 1.705	30	24000/F(kHz)	87.6-20log(F)	63.7/F (F in kHz)
1.705 ~ 30.0	30	30	29.54	0.08
30 ~ 88	3	100	40.0	--
88 ~ 216	3	150	43.5	--
216 ~ 960	3	200	46.0	--
960 ~ 1000	3	500	54.0	--
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)		

Note: 1) At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

(2) At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). This paragraph (f) shall not apply to Access BPL devices operating below 30 MHz.

About Restricted bands of operation please refer to FCC § 15.205 (a),

15.3. Test Procedure

Below 30 MHz:

The setting of the spectrum Analyzer

RBW	300 Hz (From 9 kHz to 0.15 MHz)/ 10 kHz (From 0.15 MHz to 30 MHz)
VBW	1 kHz (From 9 kHz to 0.15 MHz)/ 30 kHz (From 0.15 MHz to 30 MHz)
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm meter above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of 1 meter height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, 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 then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore, sufficient tests were made to

demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.

Below 1 GHz and above 30 MHz:

The setting of the spectrum Analyzer

RBW	100 kHz
VBW	300 kHz
Sweep	Auto
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1GHz, 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 then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz:

RBW	1 MHz
VBW	PEAK: 3 MHz AVG: see note 6
Sweep	Auto
Detector	Peak
Trace	Max hold

1. The testing follows the guidelines in ANSI C63.10.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a band rejection filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209 limits.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for AVG measurements. For the Duty Cycle please refer to clause 7.1.On Time And Duty Cycle.
7. Restriction band: Investigated frequency range from 2310 MHz to 2410 MHz and 2470MHz to 2500 MHz.

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

Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

Note 2: The EUT does not support simultaneous transmission.

Note 3: The EUT was fully exercised with external accessories during the test. In the case of multiple accessory external ports, an external accessory shall be connected to one of each type of port.

15.4. Results

Pass. (See below detailed test result)

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

Note 1: According exploratory test, the emission levels are 20 dB below the limit detected from 9 kHz to 30 MHz, so the final test was performed with frequency range from 30 MHz to 26 GHz and recorded in below.

Note 2: For emissions below 1 GHz, according exploratory explorer test, when change Tx mode and channel, have no distinct influence on emissions level, so for emissions below 1 GHz, the final test was only performed with EUT working in 8DPSK, TX 2480 MHz mode.

Note 3: For emissions above 1 GHz. If peak results comply with AV limit, AV Result is deemed to comply with AV limit.

Note 4: For emissions Above 18 GHz, the all the emission is ambient noise, so only show the worse case channel and recorded in report.

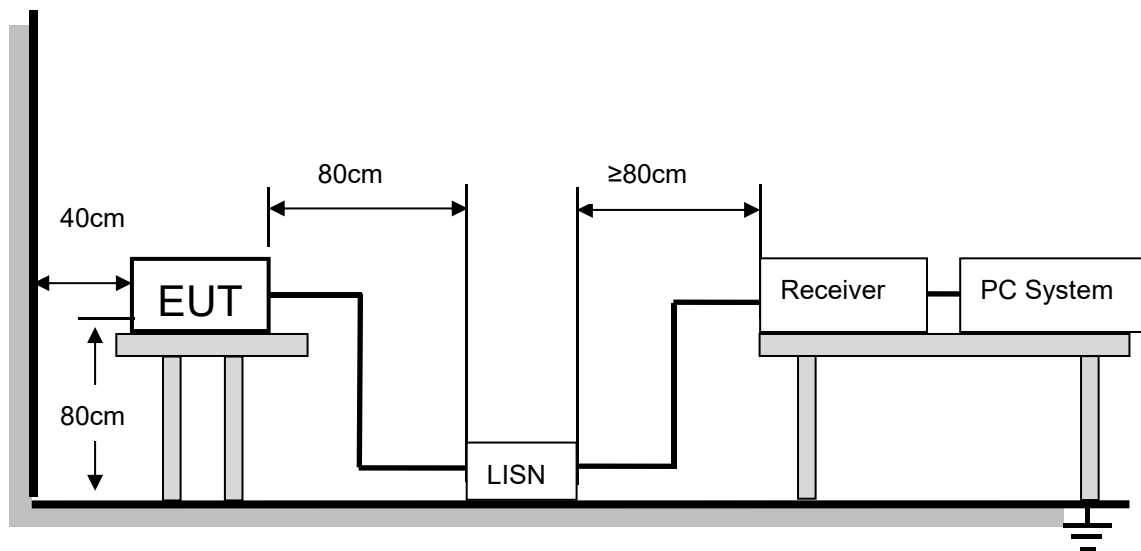
15.5. Original test data

Below 1 GHz and above 30 MHz test data Refer to appendix A

Above 1 GHz test data Refer to appendix B

16. AC Power Line Conducted Emissions

16.1. Block diagram of test setup



The EUT is put on a table of non-conducting material that is 80 cm high. The vertical conducting wall of shielding is located 40 cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through an Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9 kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

16.2. Limits

Please refer to CFR 47 FCC § 15.207 (a).

Frequency (MHz)	Quasi-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

Note 1: * Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

16.3. Test procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30 MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 kHz.

16.4. Test result

Pass. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worse case.

16.5. Original test data

AC Power Line Conducted Emission Test Data Refer to appendix C

17. Antenna Requirements

17.1. Limits

Please refer to FCC § 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC § 15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

17.2. Result

The antenna used for this product is FPC antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is 3.39 dBi

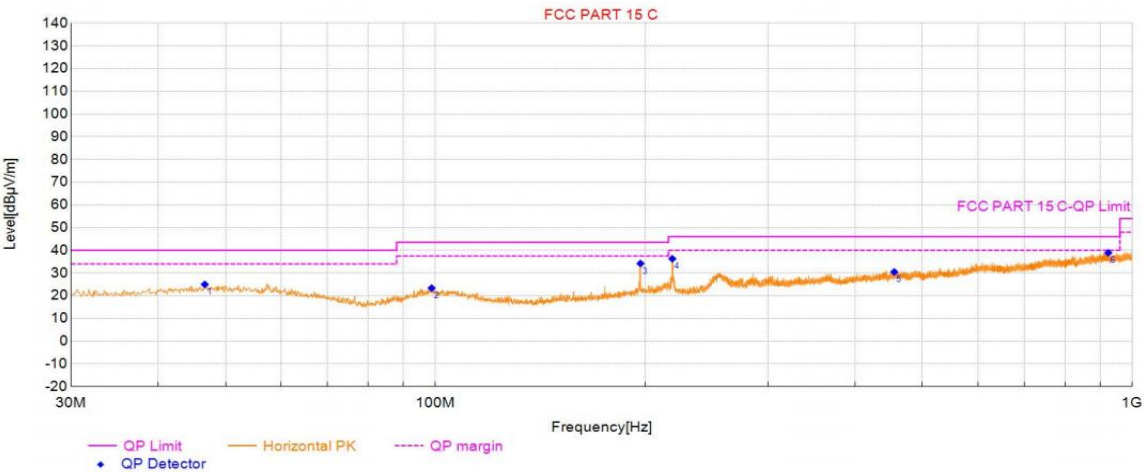
APPENDIX A – Radiated Emission Below 1GHz Test Data

Test Report

Project Information			
EUT:	Tablet		
Customer:			
Model:	MP10-Cesium-V	SN:	
Mode:	3DH5_2480	Voltage:	12V
Environment:	25.3℃ 53%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-07-04 10:49:05

Test Graph



Final Data List										
NO.	Freq. (MHz)	QP Reading (dBμV/m)	Factor (dB)	QP Value (dBμV/m)	QP Limit (dBμV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity	Verdict
1	46.69	4.05	20.94	24.99	40.00	15.01	100	95	Horizontal	PASS
2	98.78	3.67	19.69	23.36	43.50	20.14	100	360	Horizontal	PASS
3	196.95	14.53	19.66	34.19	43.50	9.31	100	340	Horizontal	PASS
4	218.78	15.66	20.63	36.29	46.00	9.71	100	134	Horizontal	PASS
5	455.39	4.26	26.23	30.49	46.00	15.51	100	40	Horizontal	PASS
6	923.75	4.93	33.98	38.91	46.00	7.09	100	340	Horizontal	PASS

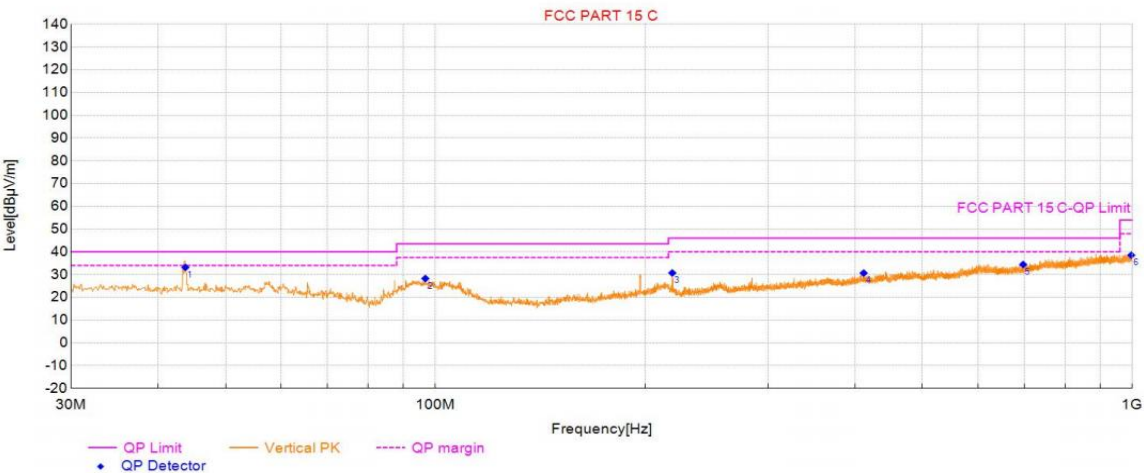
Note: Margin=QP Limit - QP Value, QP Value=Reading + Factor

Test Report

Project Information			
EUT:	Tablet		
Customer:			
Model:	MP10-Cesium-V	SN:	
Mode:	3DH5_2480	Voltage:	12V
Environment:	25.3℃ 53%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-07-04 10:49:47

Test Graph



Final Data List										
NO.	Freq. (MHz)	QP Reading (dBµV/m)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity	Verdict
1	43.79	12.65	20.52	33.17	40.00	6.83	100	16	Vertical	PASS
2	96.74	9.06	19.20	28.26	43.50	15.24	100	0	Vertical	PASS
3	218.78	10.09	20.63	30.72	46.00	15.28	100	333	Vertical	PASS
4	411.64	5.08	25.58	30.66	46.00	15.34	100	287	Vertical	PASS
5	697.14	3.92	30.51	34.43	46.00	11.57	100	70	Vertical	PASS
6	996.51	3.39	35.12	38.51	54.00	15.49	100	316	Vertical	PASS

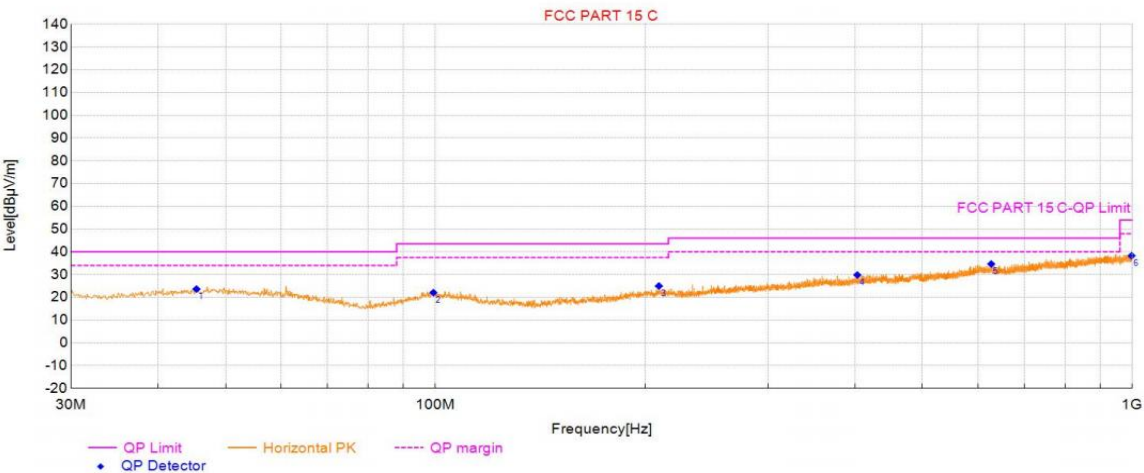
Note: Margin=QP Limit - QP Value, QP Value=Reading + Factor

Test Report

Project Information			
EUT:	Tablet		
Customer:			
Model:	MP16-Cesium-V	SN:	
Mode:	3DH5_2480	Voltage:	12V
Environment:	24.2℃ 51%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-05-11 20:22:49

Test Graph



Final Data List										
NO.	Freq. (MHz)	QP Reading (dBµV/m)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity	Verdict
1	45.42	2.84	20.81	23.65	40.00	16.35	100	3	Horizontal	PASS
2	99.36	2.23	19.84	22.07	43.50	21.43	100	235	Horizontal	PASS
3	209.27	4.74	20.23	24.97	43.50	18.53	100	178	Horizontal	PASS
4	403.10	4.48	25.33	29.81	46.00	16.19	100	51	Horizontal	PASS
5	627.39	4.73	29.93	34.66	46.00	11.34	100	2	Horizontal	PASS
6	997.57	3.17	35.13	38.30	54.00	15.70	100	34	Horizontal	PASS

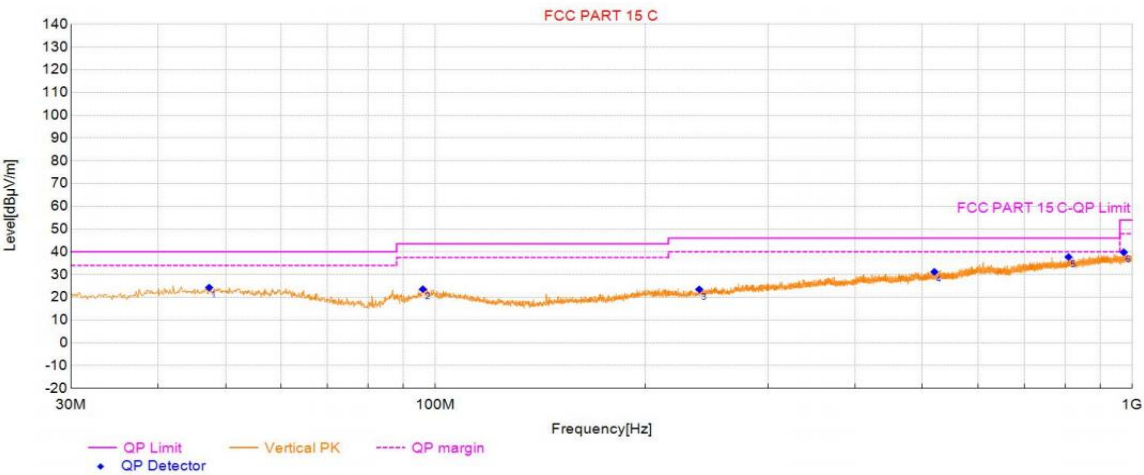
Note: Margin=QP Limit - QP Value, QP Value=Reading + Factor

Test Report

Project Information			
EUT:	Tablet		
Customer:			
Model:	MP16-Cesium-V	SN:	
Mode:	3DH5_2480	Voltage:	12V
Environment:	24.2℃ 51%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-05-11 20:23:31

Test Graph



Final Data List										
NO.	Freq. (MHz)	QP Reading (dBµV/m)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity	Verdict
1	47.36	3.29	21.02	24.31	40.00	15.69	100	161	Vertical	PASS
2	95.97	4.59	19.01	23.60	43.50	19.90	100	131	Vertical	PASS
3	239.15	2.4	21.10	23.50	46.00	22.50	100	252	Vertical	PASS
4	520.00	3.66	27.54	31.20	46.00	14.80	100	152	Vertical	PASS
5	809.96	5.48	32.25	37.73	46.00	8.27	100	116	Vertical	PASS
6	972.06	5.24	34.59	39.83	54.00	14.17	100	74	Vertical	PASS

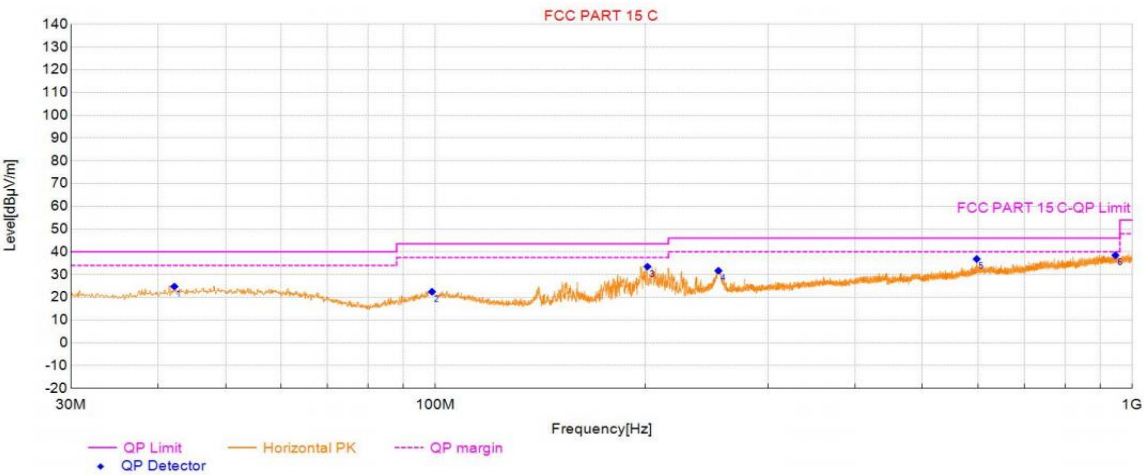
Note: Margin=QP Limit - QP Value, QP Value=Reading + Factor

Test Report

Project Information			
EUT:	Tablet		
Customer:			
Model:	MP24-Cesium-V	SN:	
Mode:	3DH5_2480	Voltage:	12V
Environment:	24.2℃ 51%	Engineer:	Soho Liu
Remark:			

Start of Test:2026-05-11 21:15:41

Test Graph



Final Data List										
NO.	Freq. (MHz)	QP Reading (dBµV/m)	Factor (dB)	QP Value (dBµV/m)	QP Limit (dBµV/m)	Margin (dB)	Height (cm)	Angle (°)	Polarity	Verdict
1	42.22	4.58	20.19	24.77	40.00	15.23	100	306	Horizontal	PASS
2	98.88	2.77	19.71	22.48	43.50	21.02	100	27	Horizontal	PASS
3	201.51	13.5	20.00	33.50	43.50	10.00	100	185	Horizontal	PASS
4	254.77	10.09	21.62	31.71	46.00	14.29	100	129	Horizontal	PASS
5	597.99	7.14	29.70	36.84	46.00	9.16	100	167	Horizontal	PASS
6	945.58	4.25	34.24	38.49	46.00	7.51	100	27	Horizontal	PASS

Note: Margin=QP Limit - QP Value, QP Value=Reading + Factor