



FCC PART 15 SUBPART C FCC PART §15.247 TEST REPORT

FCC ID: 2BYQH-Y7

Report No: CTSL2620930576E01

Product Name: Bluetooth Magnetic Speaker Stand

Main Test Model: Y7

Series Models: S86; S68; S94; S49; M7; M13; M15; M16; Y1; Y6; Y6S;
Y7; Y13; Y31; Z1; Z6; X86; X68

Applicant: Dongguan Hatsune Miku Technology Co., Ltd.

EXECUTIVE SUMMARY

A sample of this product was tested and found to be in compliance with
FCC PART 15C, FCC PART 15 SUBPART C (15.247).

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applicable to presented Test sample.

CTSL Testing (Dongguan) Co., Ltd.

Main company address: Building 1, Houjie Road, Houjie Town, Guangdong Province
Dongguan City, China

Test Report

FCC ID:2BYQH-Y7

Applicant Name	Dongguan Hatsune Miku Technology Co., Ltd.				
Applicant Address	Room 1413, Unit 1, Building 1, Kangli Qiancheng, Nanwan Sub-district, Buji District, Shenzhen, China				
Manufacturer Name	Dongguan Hatsune Miku Technology Co., Ltd.				
Manufacturer Address	Room 1413, Unit 1, Building 1, Kangli Qiancheng, Nanwan Sub-district, Buji District, Shenzhen, China				
Trade Mark	/				
Product name	Bluetooth Magnetic Speaker Stand				
Main Test Model	Y7				
Series Models	S86; S68; S94; S49; M7; M13; M15; M16; Y1; Y6; Y6S; Y7; Y13; Y31; Z1; Z6; X86; X68				
Standard	FCC Part 15 Subpart C (15.247) ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 FCC KDB 558074 D01 15.247 Meas Guidance v05r02				
Test Location	ISO/IEC 17025 by ILAC-MRA is A2LA 7556.01 CTSL Testing (Dongguan) Co., Ltd. 1/F, Building 1, No. 15, Jiaoyuansongshan Hetian Village, Houjie Town Dongguan City, Guangdong, People's Republic of China				
Receipt Date	2026.09.14	Test period	2026.09.15-2026.09.29	Issue Date	2026.09.30
Conclusion	The equipment under test was found to be compliance with the requirements of the standards applied.				
Performs Testing:	Ethan Zhao	ethan zhao			
Test Report Reviewer:	Steve Qin	steve qin			
Test Report Authorizer:	Alan Li	Alan Li			

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1.GENERAL INFORMATION

1.1.General Description of EUT (Equipment Under Test)

Product Information	
Product Name	: Bluetooth Magnetic Speaker Stand
Main Test Model	: Y7
Series Models	: S86; S68; S94; S49; M7; M13; M15; M16; Y1; Y6; Y6S; Y7; Y13; Y31; Z1; Z6; X86; X68
Model differences	: All models covered under this FCC ID differ only in model designation and enclosure appearance color. Except for the aforesaid differences, their key RF characteristics including RF circuit architecture, antenna type/gain, operating frequency, output power, modulation scheme and other relevant parameters are completely identical. Therefore, such differences will not affect FCC compliance.
Power supply	: DC 3.7V by Internal battery Charging Input: DC 5V
Battery	: -
Software Version	: V1.0
Hardware Version	: V1.0
Equipment Under Test	
Testing sample ID	: CTSL2620930576-S1 (Engineer sample) CTSL2620930576-S2 (Normal sample)
Test supplied	: ☐ supplied by the manufacturer ☒ supplied by the lab (Auxiliary test supplied by test Lab)
Power Supply information	: /
Wireless Specification	
Supported Type	: Bluetooth (BR/EDR)
Modulation Type	: BT BDR(1Mbps): GFSK BT EDR(2Mbps): $\pi/4$ -DQPSK BT EDR(3Mbps): 8-DPSK
Operation frequency	: 2402MHz-2480MHz
Number of channels	: 79
Channel separation	: 1MHz
Max Output Power (PEAK)	: 5.3dBm (6 $\pm$ 1.0dBm)
Antenna Gain& type	: Refer to Section 1.2 of the report.
Sample Type	: Prototype production
Type of Device	: ☒ Portable Device; ☐ Mobile Device; ☐ Modular Device

Note: For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

1.2. Antenna Information

Ant No.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	2.4G band	ANT 3	Internal antenna	PCB	1.7
Note: 1. The antenna gain is declared by the customer and the laboratory is not responsible for the accuracy of the antenna gain. 2. The test results of this report only apply to the sample as received.					

1.3. Information of RF Cable

Cable Loss(dB)	Provided by
1.0	Dongguan Hatsune Miku Technology Co., Ltd.
Note: 1. The customer declared the loss value of the RF Cable. and the test results of this report only apply to the sample as received. 2. The laboratory is not responsible for the accuracy of the cable loss.	

2.SUMMARY OF TEST

2.1.Test Standards

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024: American National Standard for Testing Unlicensed Wireless Devices

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

2.2.Summary of test result

No.	Description of Test Item	FCC Standard Section	Results
1	Maximum Peak Output Power	§15.247(a)(1)	PASS
2	20dB Bandwidth	§15.247(a)(1)	PASS
3	Carrier Frequency Separation	§15.247(a)(1)	PASS
4	Number Of Hopping Channels	§15.247(a)(1)(iii)	PASS
5	Time of Occupancy (Time of Occupancy (Dwell Time))	§15.247(a)(1)(iii)	PASS
6	Conducted Band Edge	§15.247(d)	PASS
7	Conducted Spurious Emissions	§15.247(d)	PASS
8	Radiated Spurious Emissions and Band Edge	§15.205 §15.209(a) §15.247(d)	PASS
9	AC Power Line Conducted Emissions	§15.207	PASS
10	Antenna Requirement	§15.203	PASS

Note: "N/A" denotes test is not applicable in this test report.

2.3. Test Facilities

EMC Lab :

A2LA Certificate Number: 7556.01;
CTSL Testing (Dongguan) Co., Ltd. has been listed by American Association for Laboratory Accreditation to perform electromagnetic emission measurement.
The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10 and CISPR 16-1-4:2010.

FCC Designation Number: CN1425;
Test Firm Registration Number: 750639;
CTSL Testing (Dongguan) Co., Ltd. has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

Industry Canada Registration Number. Is: 34801;
CAB identifier: CN0192;
CTSL Testing (Dongguan) Co., Ltd. The Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing.

Name of Firm : CTSL Testing (Dongguan) Co., Ltd.

Main company address: Building 1, Houjie Road, Houjie Town, Guangdong Province Dongguan City, China

EMC test location/satellite location:

1/F, Building 1, No. 15, Jiaoyuansongshan Hetian Village, Houjie Town Dongguan City, Guangdong, People's Republic of China City, Guangdong, China

2.4. Measurement uncertainty

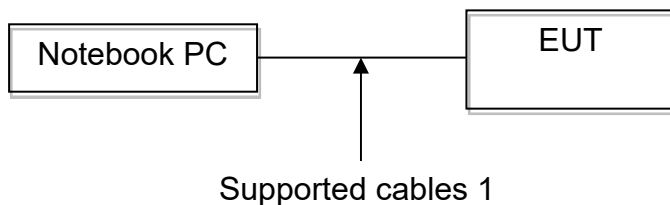
Item	Uncertainty
Uncertainty for Conduction emission test	3.72dB (9kHz-150kHz) 3.24dB (150kHz-30MHz)
Uncertainty for spurious emissions test	3.18dB (Below 30MHz) 4.90dB (30-1000MHz) 5.61dB (Above 1GHz)
Uncertainty for radio frequency	1.0 ppm
Uncertainty for conducted RF Power	0.7dB
Uncertainty for Power density test	0.6dB
Uncertainty of bandwidth test	0.34 dB
Uncertainty for Temperature	0.5°C
Uncertainty for Relative Humidity	1.8%RH
Uncertainty for Atmospheric Pressure	0.16 kPa

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

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 (or 1.5) meter high above ground. EUT was beset into Bluetooth test mode by software before test.

Connect EUT Antenna Terminal, Radiated Spurious Emissions& Band Edge Test:



AC Power Line Conducted Emissions Test:



(EUT: In-the-ear hearing aid)

2.6. Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
1	Notebook PC	-	Inspiron 14R-5421 (Manufacturer: Dell)	-	25TZHW1
2	ADAPTER (supplied by the Lab.)	-	MDY-14-ED (Manufacturer: XiaoMi)	-	-

Supported cables				
Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	0.5m	USB Extension Cable (supplied by the Lab.)
2	NO	NO	1.0m	USB-C Cable (supplied by the Lab.)

2.7. Test mode

Combining all the rates, modulations, and packet types, the Pre-scans had been carried out. The worst-case test mode was selected for the final test as listed below.

Test Item	Modulation Type	Operating Mode	Packet Type	Test Channel
Maximum Peak Output Power	GFSK; $\pi/4$ -DQPSK; 8-DPSK;	Non-Hopping	DH5; 2-DH5; 3-DH5	Low/Middle/High
20dB Bandwidth	GFSK; $\pi/4$ -DQPSK; 8-DPSK;	Non-Hopping	DH5; 2-DH5; 3-DH5	Low/Middle/High
Carrier Frequency Separation	GFSK; $\pi/4$ -DQPSK; 8-DPSK;	Hopping On	DH5; 2-DH5; 3-DH5	CH 38/CH 39
Number Of Hopping Channel	GFSK; $\pi/4$ -DQPSK; 8-DPSK;	Hopping On	DH5; 2-DH5; 3-DH5	All Channel Hopping
Time of Occupancy (Dwell Time)	GFSK; $\pi/4$ -DQPSK; 8-DPSK;	Hopping On	DH1/DH3/ DH5	Middle (All Channel Hopping)
Conducted Band Edge	GFSK; $\pi/4$ -DQPSK; 8-DPSK;	Non-Hopping & Hopping On	DH5; 2-DH5; 3-DH5	Low / High & All Channel Hopping
Conducted Spurious Emissions	GFSK; $\pi/4$ -DQPSK; 8-DPSK;	Non-Hopping	DH5; 2-DH5; 3-DH5	Low/Middle/High
Radiated Spurious Emissions (Below 1GHz)	Only worse case is reported			
Radiated Spurious Emissions (Above 1GHz)	GFSK; $\pi/4$ -DQPSK; 8-DPSK;	Non-Hopping	DH5; 2-DH5; 3-DH5	Low/Middle/High
Radiated Band Edge	GFSK; $\pi/4$ -DQPSK; 8-DPSK;	Non-Hopping	DH5; 2-DH5; 3-DH5	Low/High
AC Power Line Conducted Emissions	Only worse case is reported			

Note: In radiated measurement, the EUT had been pre-scan on the positioned of each 3 axis (X, Y, Z), the worst case was found when positioned on **X-plane**.

2.8.Channel List

Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
00	2402	01	2403	02	2404	03	2405
04	2406	05	2407	06	2408	07	2409
08	2410	09	2411	10	2412	11	2413
12	2414	13	2415	14	2416	15	2417
16	2418	17	2419	18	2420	19	2421
20	2422	21	2423	22	2424	23	2425
24	2426	25	2427	26	2428	27	2429
28	2430	29	2431	30	2432	31	2433
32	2434	33	2435	34	2436	35	2437
36	2438	37	2439	38	2440	39	2441
40	2442	41	2443	42	2444	43	2445
44	2446	45	2447	46	2448	47	2449
48	2450	49	2451	50	2452	51	2453
52	2454	53	2455	54	2456	55	2457
56	2458	57	2459	58	2460	59	2461
60	2462	61	2463	62	2464	63	2465
64	2466	65	2467	66	2468	67	2469
68	2470	69	2471	70	2472	71	2473
72	2474	73	2475	74	2476	75	2477
76	2478	77	2479	78	2480	-	-

2.9.Power Setting of Test Software

Software Name	BT_Tool V1.0.9		
Frequency (MHz)	2402	2441	2480
GFSK(1Mbps) Setting	1	1	1
$\pi/4$ -DQPSK (2Mbps) Setting	1	1	1
8-DPSK(3Mbps) Setting	1	1	1

Note: This information is provided by the applicant.

2.10. Test Equipment

For Conducted Emission Test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI 3	AT005	GUANGZHOU NEM	May 28,26	May 27,27
LISN	Rohde & Schwarz	ENV216	AT006	GUANGZHOU NEM	May 28,26	May 27,27
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	AT007	GUANGZHOU NEM	May 28,26	May 27,27
CE Cable	Times Microwave	LMR195UF-N MNM-1.50M	AT041	GUANGZHOU NEM	May 28,26	May 27,27
Test Software	FARAD	EZ-EMC Ver.3A1.1+	N/A	N/A	N/A	N/A

For Radiated Emission Test (9kHz-30MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI TestReceiver	Rohde& Schwarz	ESCI 7	AT001	GUANGZHOU NEM	May 28,26	May 27,27
Active Loop Antenna	HCT	6505	AT064	GRG METROLOGY	Mar 22,26	Mar 21,27
Test Software	FARAD	EZ-EMC Ver.3A1.1+	N/A	N/A	N/A	N/A
9kHz-30MHz Cable	Times Microwave	LMR195UF-N MNM-9M	AT045	GUANGZHOU NEM	May 28,26	May 27,27

For Radiated Emissions Test (30MHz-1000MHz)						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde& Schwarz	ESCI 7	AT001	GUANGZHOU NEM	May 28,26	May 27,27
Trilog-Broadband Antenna (Includes 6db attenuator)	SCHWARZBECK	VULB 9168	AT002	LISAI	May 30,26	May 29,27
Test Software	FARAD	EZ-EMC Ver.3A1.1+	N/A	N/A	N/A	N/A
30-1000MHz Cable	Times Microwave Systems	LMR195UF-N MRNMR-3.00M+ LMR400UF-N MNM-3.00M+ LMR400UF-N MNM-3.00M	AT042+AT043+AT044	GUANGZHOU NEM	May 28,26	May 27,27

For Radiated Emission Test (Above 1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Horn Antenna 1-18G	SCHWARZBEC K	BBHA 9120 D	AT003	LISAI	May 30,26	May 29,27
Horn Antenna 18-40GHz	XIBAO	XB-WDB18-40K	AT064	LISAI	May 30,26	May 29,27
Broadband Preamplifier	SCHWARZBEC K	BBV 9718 D	AT004	GUANGZHOU NEM	May 28,26	May 27,27
Low Noise Amplifier	MWRFTest	DLA8-18-40G-2078	AT065	GUANGZHOU NEM	May 28,26	May 27,27
Spectrum Analyzer 40G	Keysight	N9020B	AT066	GUANGZHOU NEM	May 28,26	May 27,27
Spectrum Analyzer 26.5G	Keysight	N9020A	AT050	GUANGZHOU NEM	May 28,26	May 27,27
Radio switching unit	TiGroup	SU319	AT055	N/A	N/A	N/A
Filtering unit	TiGroup	SU319F	AT056	N/A	N/A	N/A
Test Software	BL	BL410-E V25.5 en	N/A	N/A	N/A	N/A
Above 1GHz Cable	Times Microwave Systems	SFT205-NMN M-7.0M+ SFT205-NMN M-2.0M	AT057+ AT058	GUANGZHOU NEM	May 28,26	May 27,27

For Connect EUT Antenna Terminal Test (RF Test system)

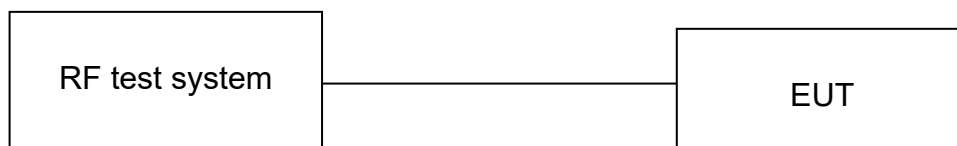
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
Spectrum analyzer	Keysight	N9020A	AT050	GUANGZHOU NEM	May 28,26	May 27,27
Analog signal source	Keysight	N5173B	AT051	GUANGZHOU NEM	May 28,26	May 27,27
WIDEBAND RADIO COMMUNICATION TESTER	Rohde&Schwarz	CMW500	AT052	GUANGZHOU NEM	May 28,26	May 27,27
Power probe unit	Ti Group	SU319P	AT053	GUANGZHOU NEM	May 28,26	May 27,27
Switch unit	Ti Group	SU319S	AT054	N/A	N/A	N/A
Test Software	BL	BL410R 3.5.2.621	N/A	N/A	N/A	N/A

3. MAXIMUM PEAK OUTPUT POWER

3.1. Limit

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, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

3.2. Test Setup



3.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	3MHz
VBW	8MHz
Span	6MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

3.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 3.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

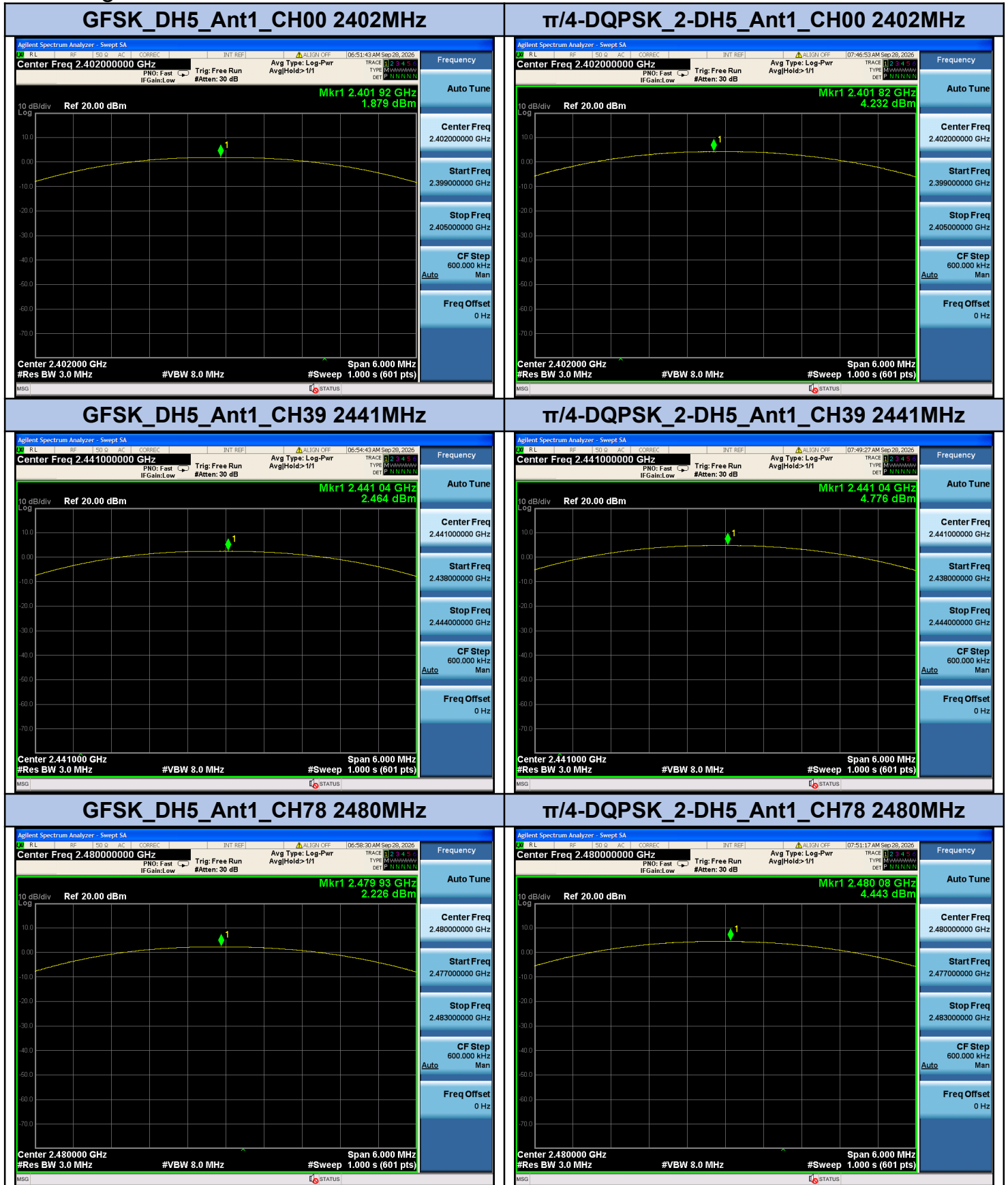
3.5. Test Conditions

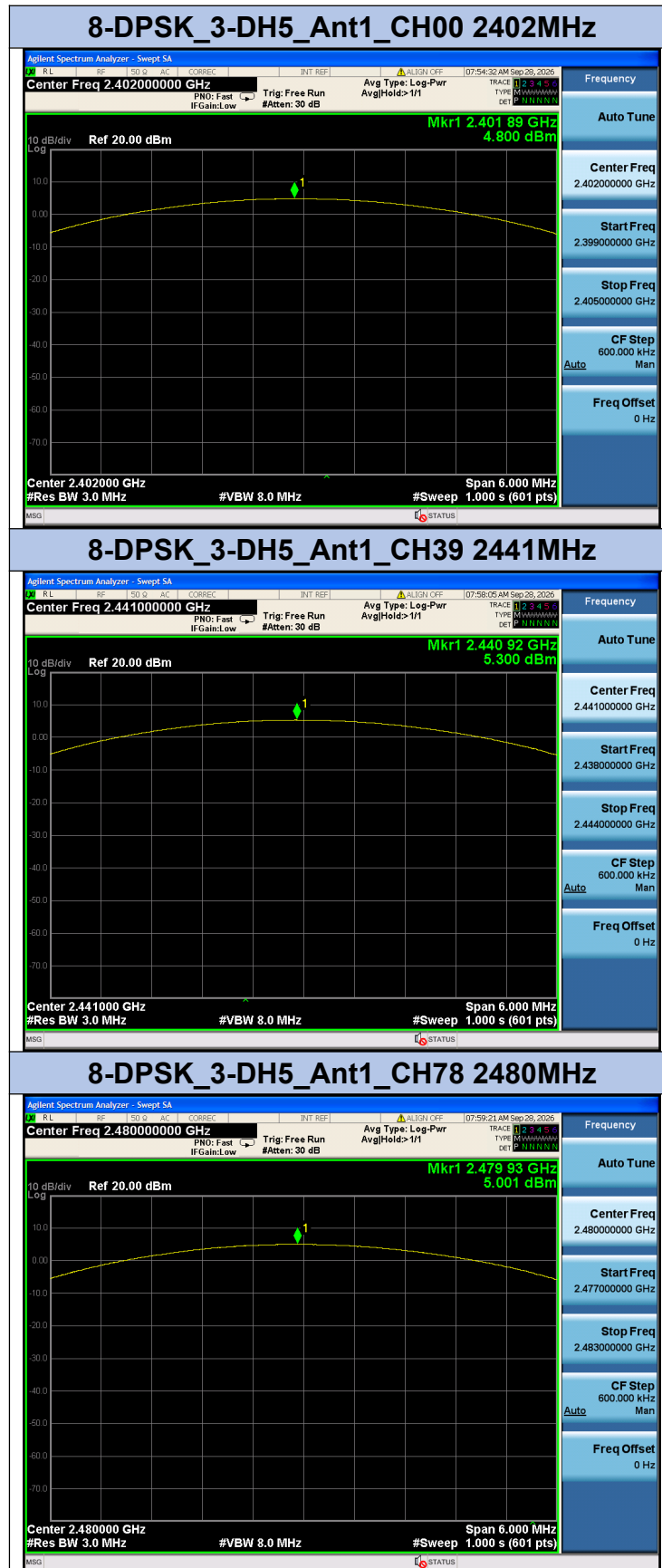
EUT:	Bluetooth Magnetic Speaker Stand	M/N:	Y7
Test Voltage:	DC 3.7V by Internal battery		
Temperature:	23.9°C	Humidity:	51 % RH
Atmosphere Pressure:	100.7kPa		

3.6. Test Result

Test Mode	Antenna	Channel & Frequency	Conducted Peak Power	Conducted Limit	Result
		MHz	dBm	dBm	
GFSK DH5 (Non-Hopping)	Ant1	CH00 2402	1.88	≤20.97	PASS
		CH39 2441	2.46	≤20.97	PASS
		CH78 2480	2.23	≤20.97	PASS
π/4-DQPSK 2-DH5 (Non-Hopping)	Ant1	CH00 2402	4.23	≤20.97	PASS
		CH39 2441	4.78	≤20.97	PASS
		CH78 2480	4.44	≤20.97	PASS
8-DPSK 3-DH5 (Non-Hopping)	Ant1	CH00 2402	4.80	≤20.97	PASS
		CH39 2441	5.30	≤20.97	PASS
		CH78 2480	5.00	≤20.97	PASS

3.7.Original Test Record





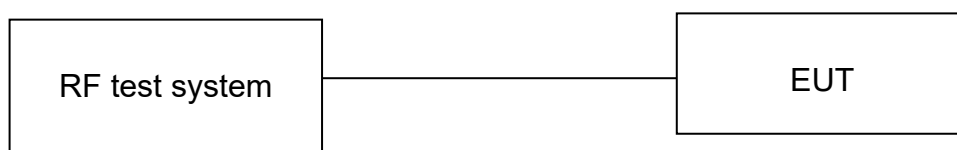
4. 20DB BANDWIDTH

4.1.Limit

For frequency hopping systems operating in the 2400MHz-2483.5MHz no limit for 20dB bandwidth.

The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.2.Test Setup



4.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	30KHz
VBW	100KHz
Span	3MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

4.4.Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 4.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the ndB down function to measure 20dB Bandwidth.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

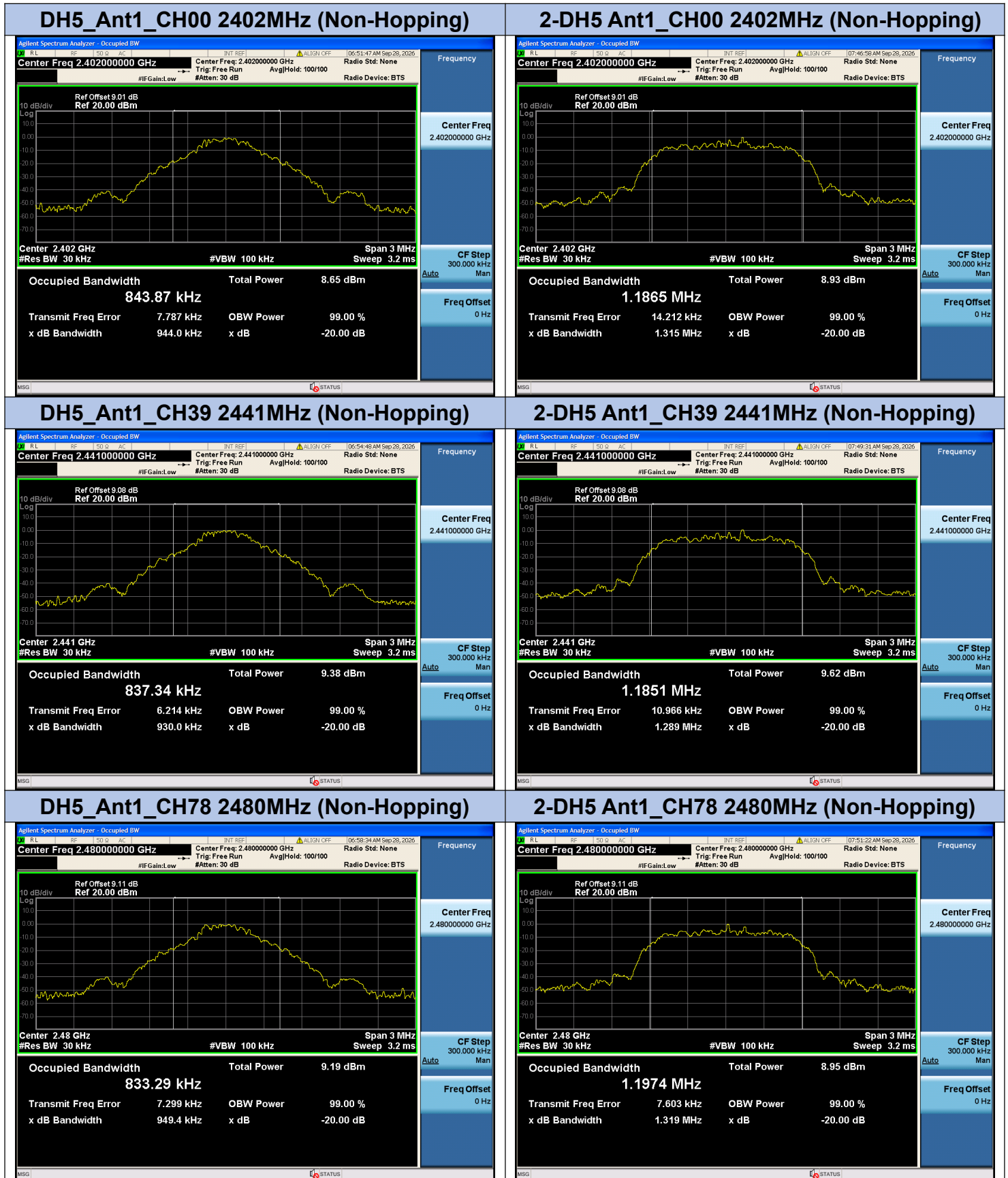
4.5. Test Conditions

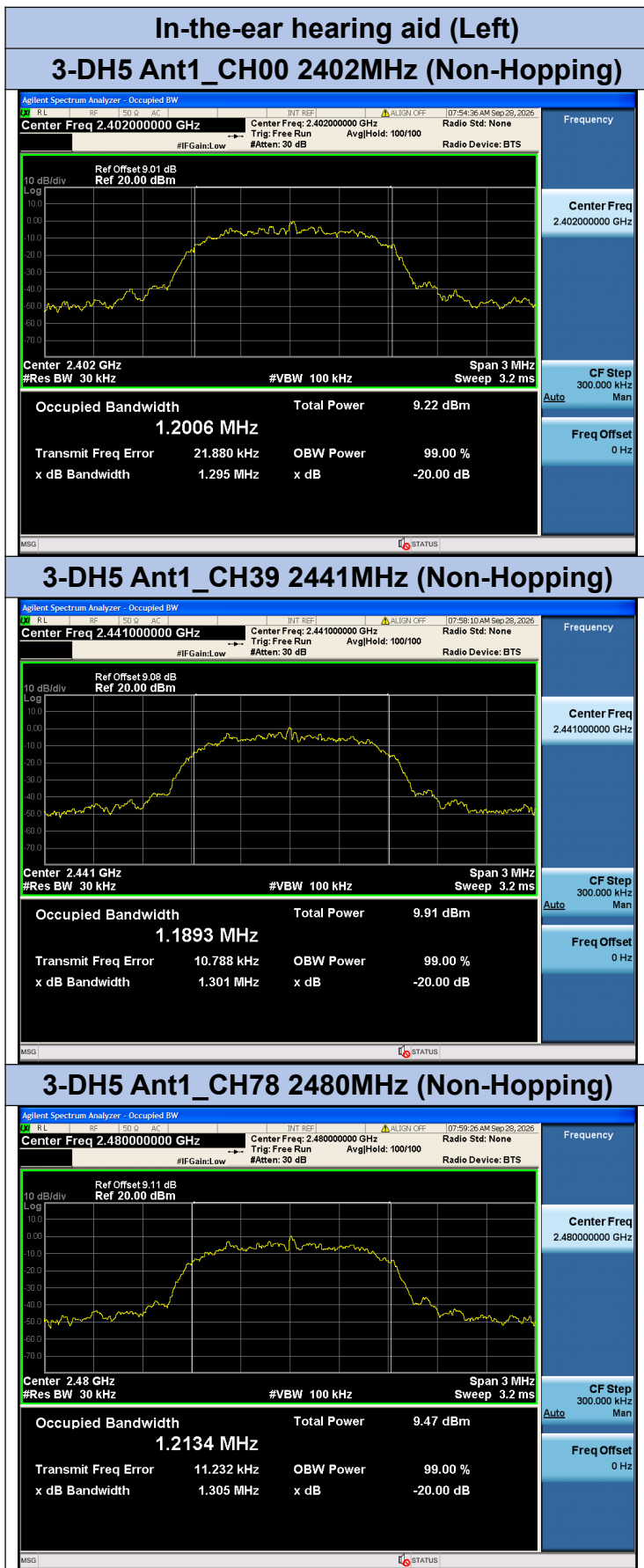
EUT:	Bluetooth Magnetic Speaker Stand	M/N:	Y7
Test Voltage:	DC 3.7V by Internal battery		
Temperature:	23.9°C	Humidity:	51 % RH
Atmosphere Pressure:	100.7kPa		

4.6. Test Result

Test Mode	Antenna	Channel& Frequency	20dB Bandwidth	Result
		MHz	MHz	
GFSK DH5 (Non-Hopping)	Ant1	CH00 2402	0.944	PASS
		CH39 2441	0.930	PASS
		CH78 2480	0.949	PASS
$\pi/4$ -DQPSK 2-DH5 (Non-Hopping)	Ant1	CH00 2402	1.315	PASS
		CH39 2441	1.289	PASS
		CH78 2480	1.319	PASS
8-DPSK 3-DH5 (Non-Hopping)	Ant1	CH00 2402	1.295	PASS
		CH39 2441	1.301	PASS
		CH78 2480	1.305	PASS

4.7.Original Test Record





5. CARRIER FREQUENCY SEPARATION

5.1. Limit

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, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

5.2. Test Setup



5.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	30KHz
VBW	100KHz
Span	3MHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

5.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 5.3.
- Set the EUT transmit continuously with maximum output power in all channel hopping mode.
- Allow trace to stabilize, use the marker-delta function to measure channel separation between two adjacent channels.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

5.5. Test Conditions

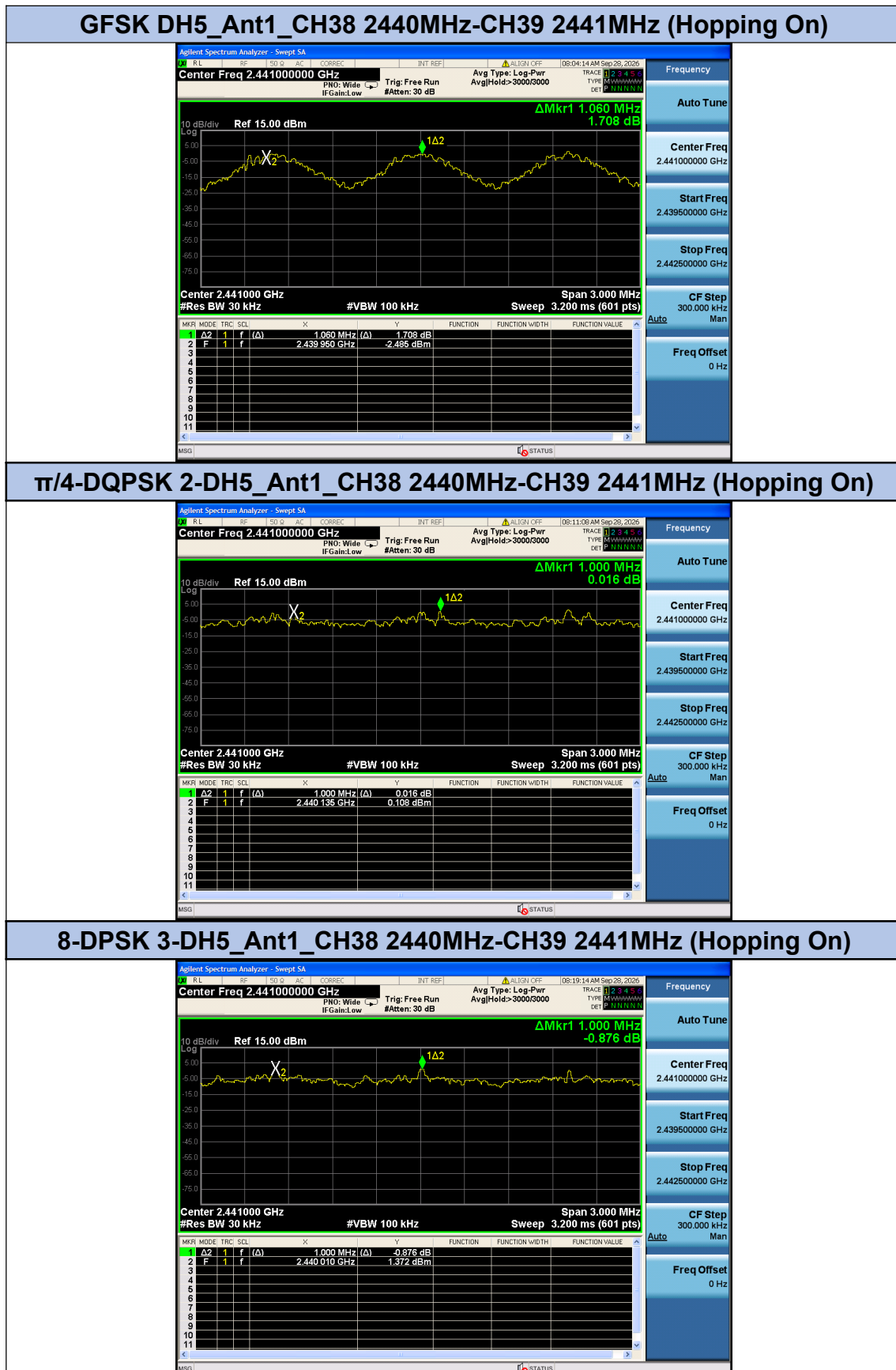
EUT:	Bluetooth Magnetic Speaker Stand	M/N:	Y7
Test Voltage:	DC 3.7V by Internal battery		
Temperature:	23.9°C	Humidity:	51 % RH
Atmosphere Pressure:	100.7kPa		

5.6. Test Result

Test Mode	Antenna	Channel	Frequency	Channel Separation	Limit	Result
			MHz	MHz	MHz	
GFSK DH5 (Hopping On)	Ant1	CH38	2440	1.060	> 0.633 *	PASS
		CH39	2441			
π /4-DQPSK 2-DH5 (Hopping On)	Ant1	CH38	2440	1.000	> 0.879 *	PASS
		CH39	2441			
8-DPSK 3-DH5 (Hopping On)	Ant1	CH38	2440	1.000	> 0.870 *	PASS
		CH39	2441			

Note *: Limit from Section 4 20DB BANDWIDTH 2/3 (> 2/3 of the 20dB Bandwidth or 25[kHz] (whichever is greater))

5.7.Original Test Record

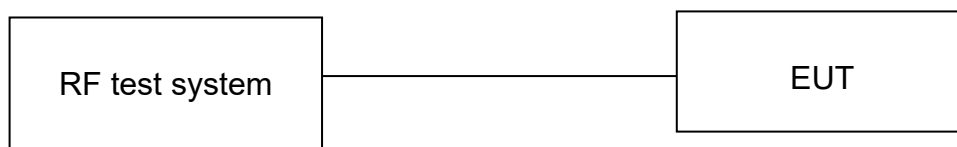


6. NUMBER OF HOPPING CHANNEL

6.1. Limit

Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels

6.2. Test Setup



6.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting	
RBW	300KHz	
VBW	300KHz	
Start frequency	2400MHz	2441MH
Stop frequency	2441MHz	2483.5MHz
Sweep Time	Auto	
Detector	Peak	
Trace Mode	Max Hold	

6.4. Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 6.3.
- Set the EUT transmit continuously with maximum output power in all channel hopping mode.
- Allow trace to stabilize, use the marker-peak function to mark the first and last frequency hopping channel.
- Repeat above procedures until all test modes were measured.
- Record the results in the test report.

6.5. Test Conditions

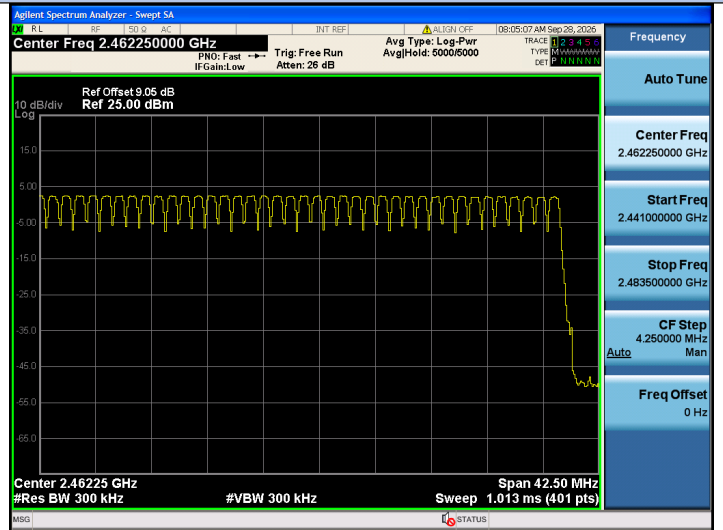
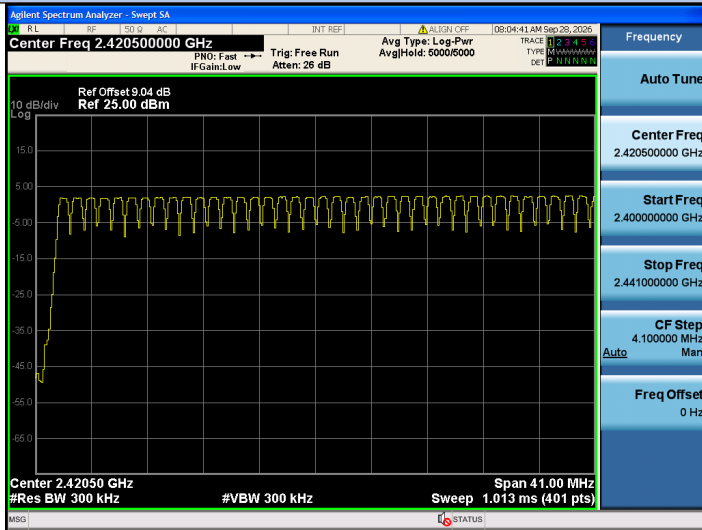
EUT:	Bluetooth Magnetic Speaker Stand	M/N:	Y7
Test Voltage:	DC 3.7V by Internal battery		
Temperature:	23.9°C	Humidity:	51 % RH
Atmosphere Pressure:	100.7kPa		

6.6. Test Result

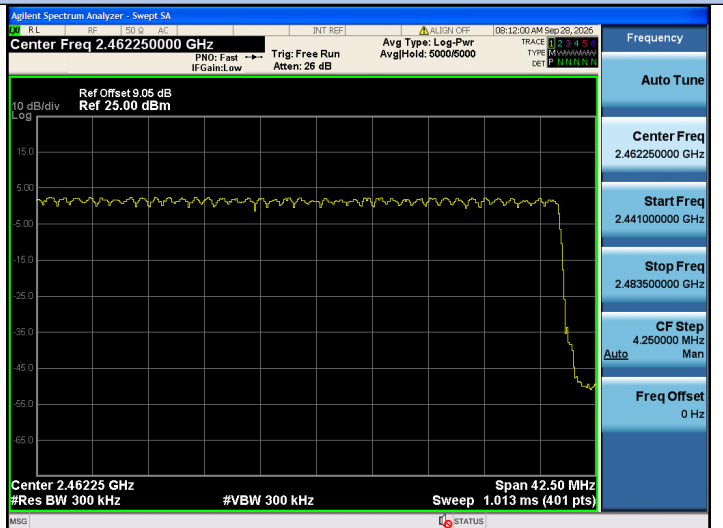
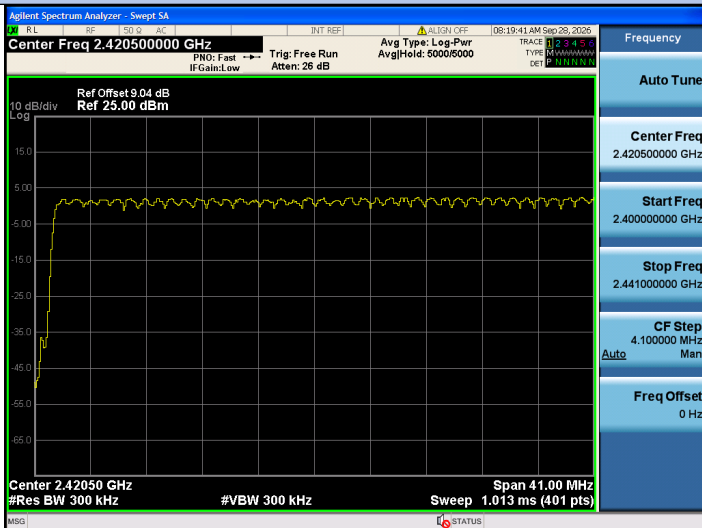
Test Mode	Antenna	Number of Hopping Channel	Limit	Result
GFSK DH5 (Hopping On)	Ant1	79	>15	PASS
$\pi/4$ -DQPSK 2-DH5 (Hopping On)	Ant1	79		PASS
8-DPSK 3-DH5 (Hopping On)	Ant1	79		PASS

6.7.Original Test Record

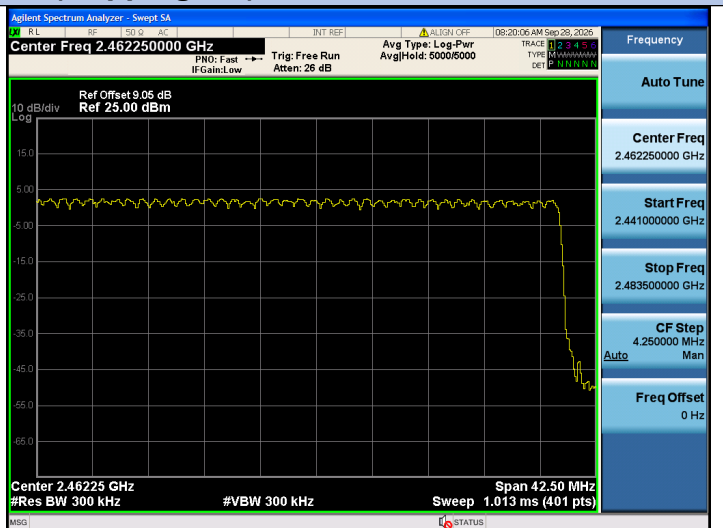
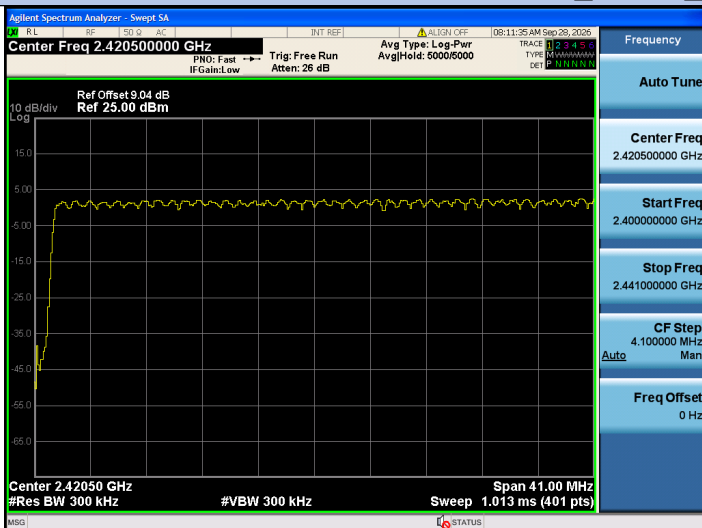
GFSK_DH5_Ant1 (Hopping On)



$\pi/4$ -DQPSK_2-DH5_Ant1 (Hopping On)



8-DPSK_3-DH5_Ant1 (Hopping On)



7.TIME OF OCCUPANCY (DWELL TIME)

7.1.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.

7.2.Test Setup



7.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	1MHz
VBW	3MHz
Span	Zero
Detector	Peak
Sweep Time	0.96ms(DH1)/4.2ms(DH3)/7.2ms(DH5)
Sweep Mode	Single Sweep

7.4.Test Procedure

- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 7.3.
- Set the EUT transmit continuously with maximum output power in all channel hopping mode.
- Allow trace to stabilize, use the marker-delta function to measure single pulse duration.
- Repeat above procedures until all test modes were measured.
- Record the results in the test report.

7.5. Test Conditions

EUT:	Bluetooth Magnetic Speaker Stand	M/N:	Y7
Test Voltage:	DC 3.7V by Internal battery		
Temperature:	23.9°C	Humidity:	51 % RH
Atmosphere Pressure:	100.7kPa		

7.6. Test Result

Test Mode	Packet	Channel& Frequency	Pulse time	Dwell time	Limit	Result
		MHz	ms	s	s	
GFSK (Hopping On)	DH1	CH39 2441	0.410	0.1311	0.4	PASS
	DH3		1.687	0.2699		
	DH5		2.916	0.3110		
$\pi/4$ -DQPSK (Hopping On)	2-DH1	CH39 2441	0.419	0.1341	0.4	PASS
	2-DH3		1.666	0.2666		
	2-DH5		2.916	0.3110		
8-DPSK (Hopping On)	3-DH1	CH39 2441	0.421	0.1347	0.4	PASS
	3-DH3		1.673	0.2677		
	3-DH5		2.904	0.3098		

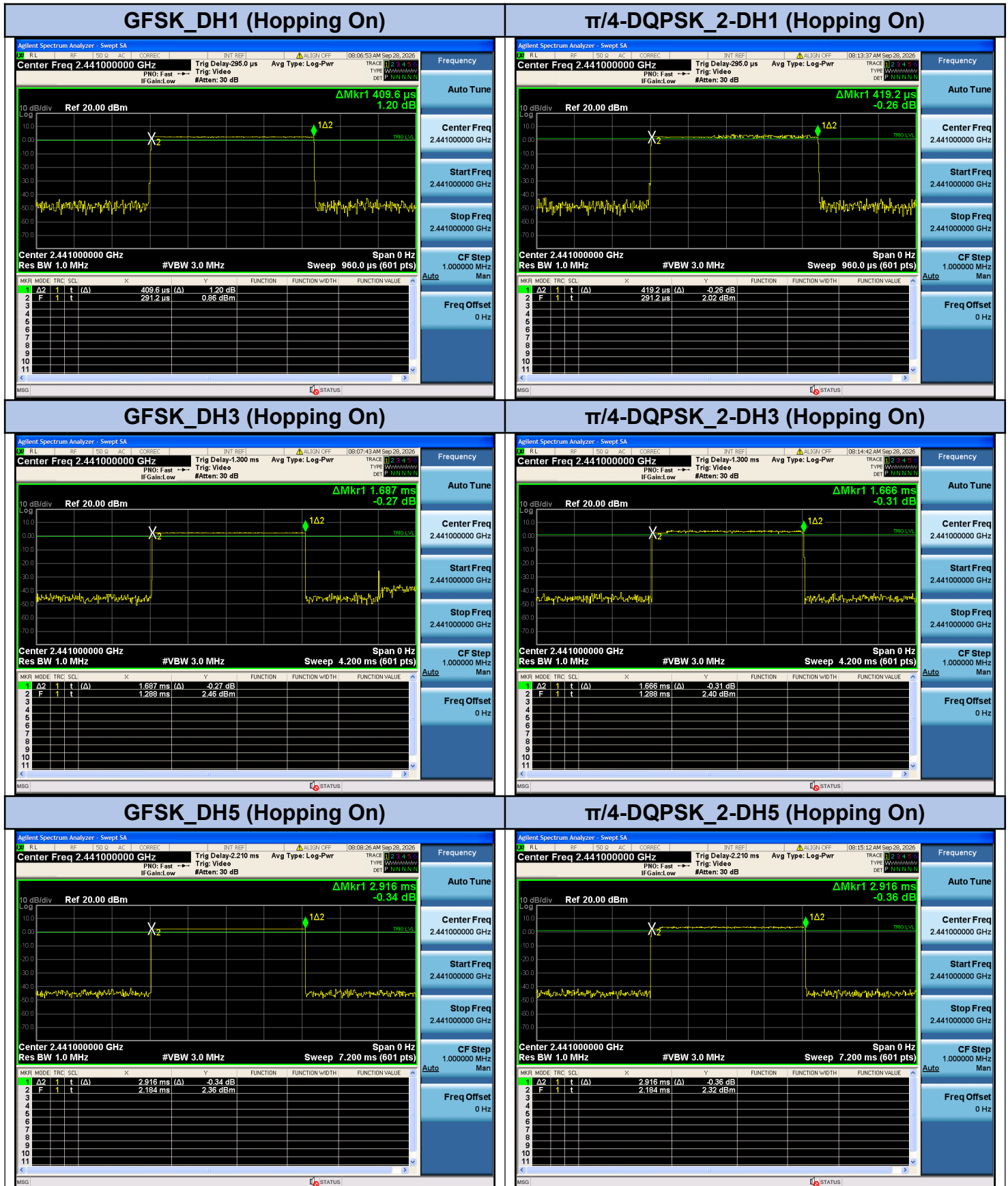
Note:

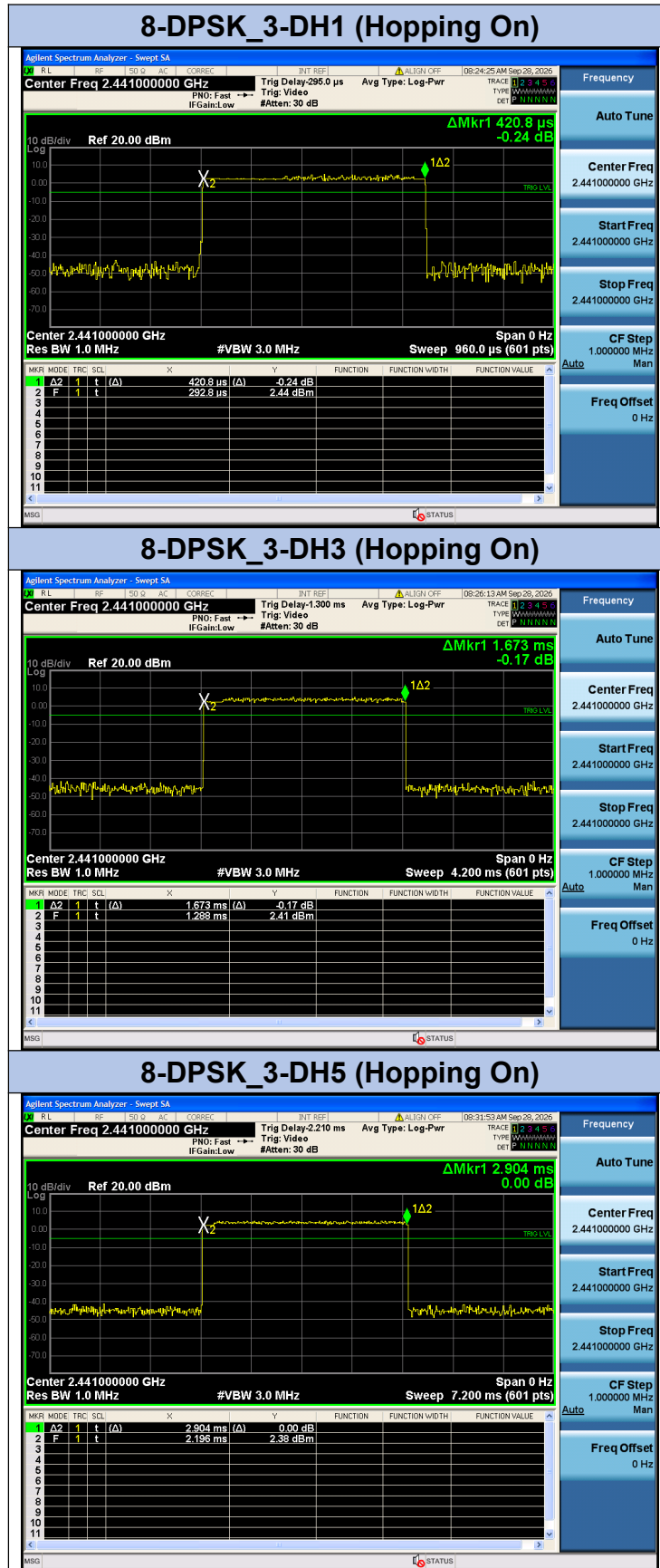
Dwell time=Pulse time (ms) $\times$ (1600 $\div$ 2 $\div$ 79) $\times$ 31.6 Second for DH1, 2-DH1, 3-DH1

Dwell time=Pulse time (ms) $\times$ (1600 $\div$ 4 $\div$ 79) $\times$ 31.6 Second for DH3, 2-DH3, 3-DH3

Dwell time=Pulse time (ms) $\times$ (1600 $\div$ 6 $\div$ 79) $\times$ 31.6 Second for DH5, 2-DH5, 3-DH5

7.7.Original Test Record





8.CONDUCTED BAND EDGE

8.1.Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

8.2.Test Setup



8.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Span	3MHz (Reference Level) 100MHz (Left Band edge) 30MHz (Right Band edge)
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

8.4.Test Procedure

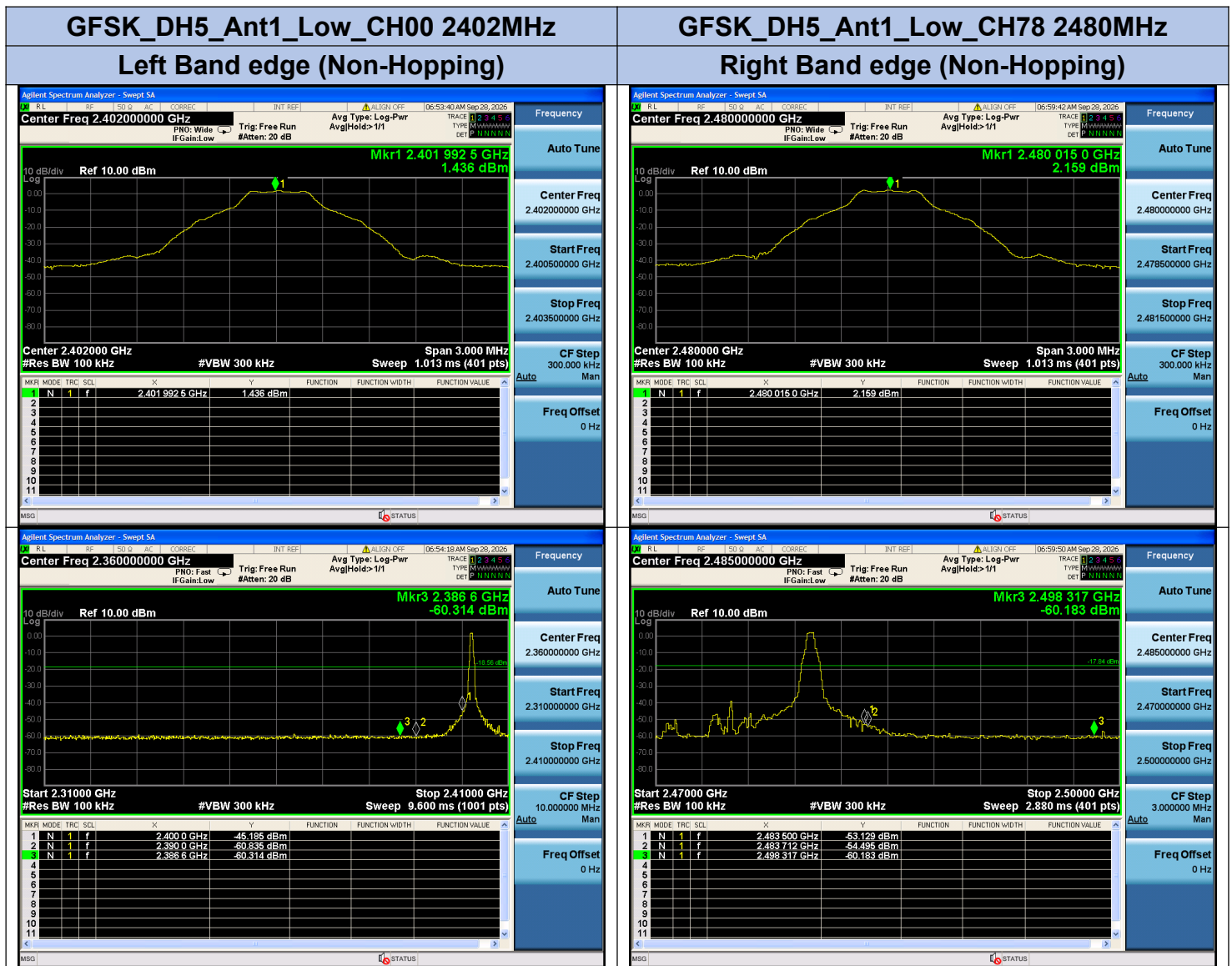
- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 8.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the marker function to mark the highest emission level outside the authorized band.
- Repeat above procedures until all channels and test modes were measured(including frequency hopping off and frequency hopping on).

Record the results in the test report.

8.5. Test Conditions

EUT:	Bluetooth Magnetic Speaker Stand	M/N:	Y7
Test Voltage:	DC 3.7V by Internal battery		
Temperature:	23.9°C	Humidity:	51 % RH
Atmosphere Pressure:	100.7kPa		

8.6. Test Result

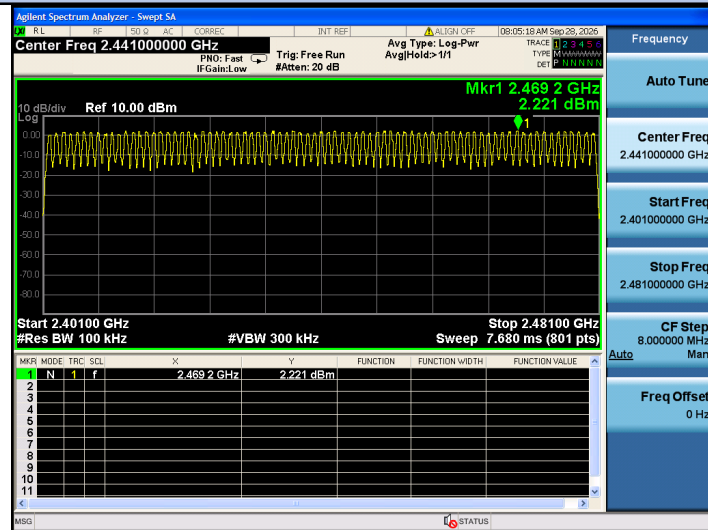






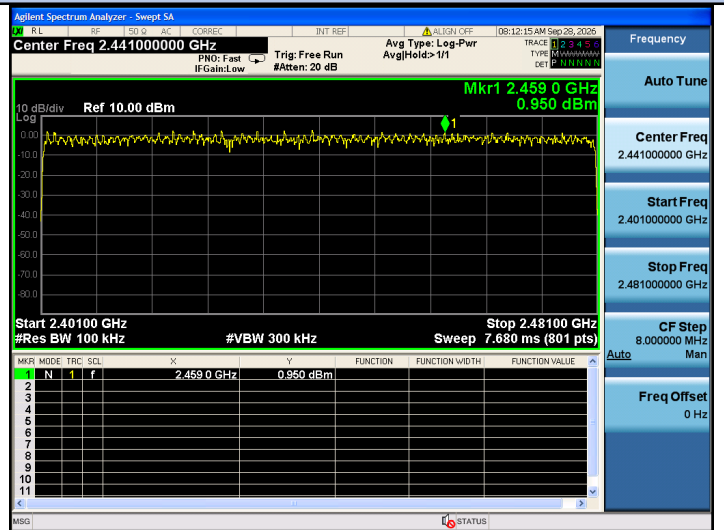
GFSK_DH5_Ant1

Reference_ (Hopping On)

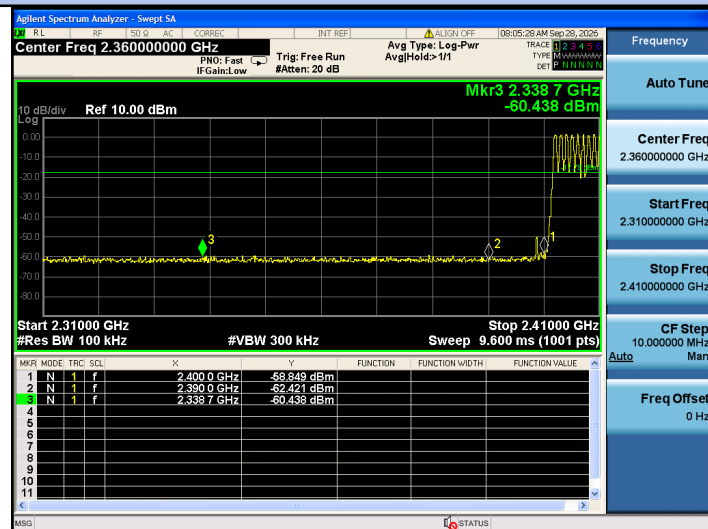


$\pi/4$ -DQPSK_2-DH5_Ant1

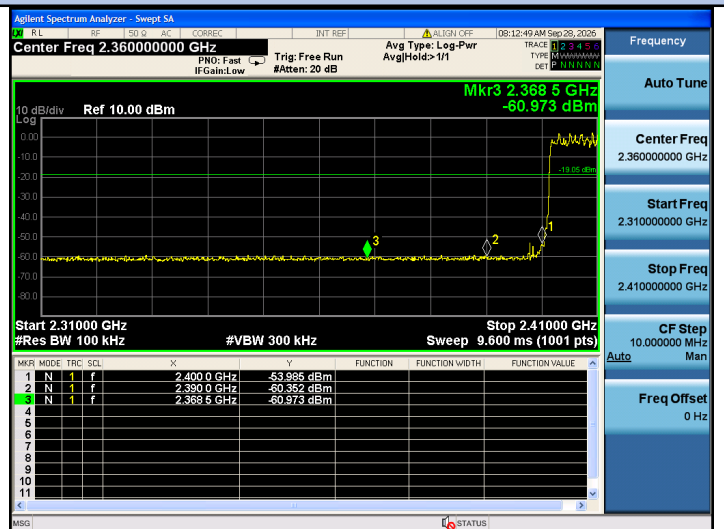
Reference_ (Hopping On)



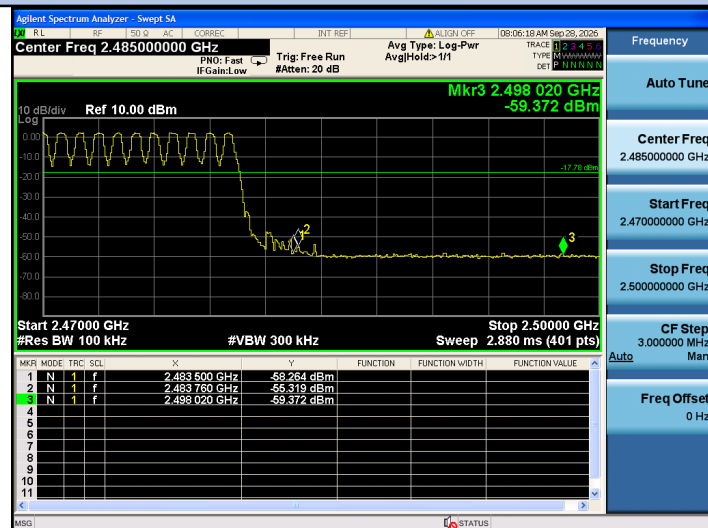
Left Band edge (Hopping On)



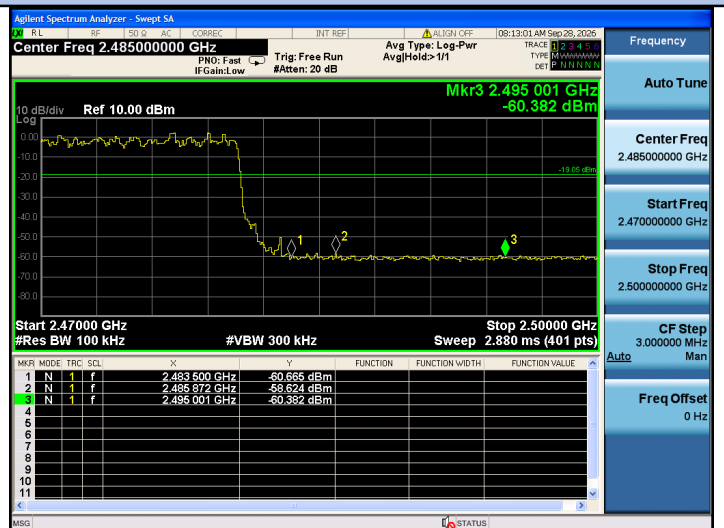
Left Band edge (Hopping On)

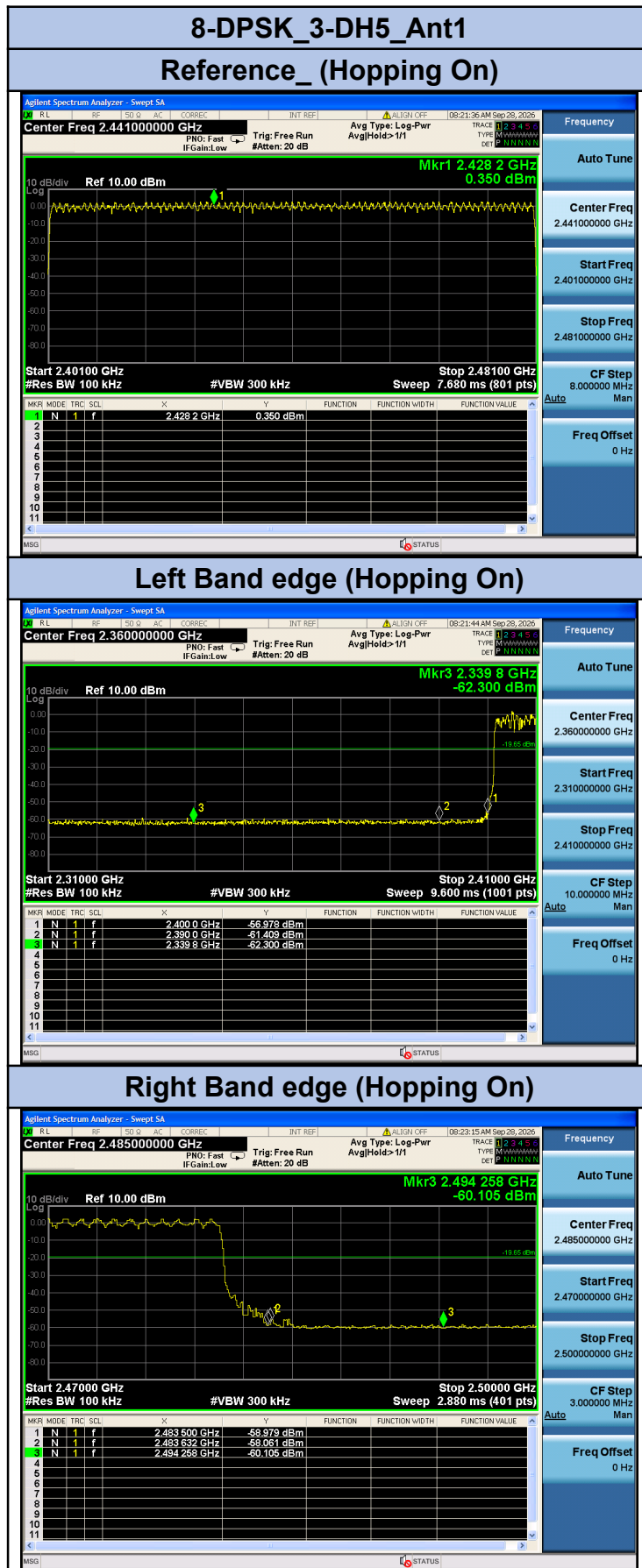


Right Band edge (Hopping On)



Right Band edge (Hopping On)





9.CONDUCTED SPURIOUS EMISSIONS

9.1.Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

9.2.Test Setup



9.3.Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	100KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	26.5GHz
Sweep Time	Auto
Detector	Peak
Trace Mode	Max Hold

9.4. Test Procedure

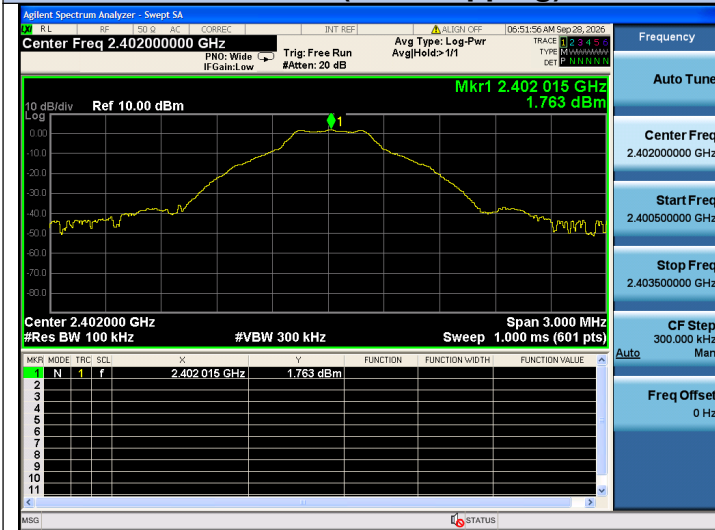
- Connect EUT antenna terminal to the spectrum analyzer with RF cable.
- Spectrum analyzer setting parameters in accordance with section 9.3.
- Set the EUT transmit continuously with maximum output power over fixed single hopping channel.
- Allow trace to stabilize, use the marker function to mark the highest emission level outside the authorized band.
- Repeat above procedures until all channels and test modes were measured.
- Record the results in the test report.

9.5. Test Conditions

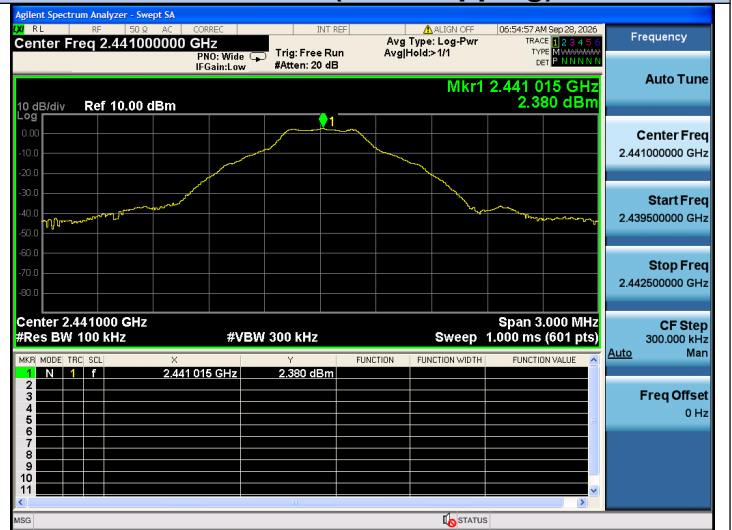
EUT:	Bluetooth Magnetic Speaker Stand	M/N:	Y7
Test Voltage:	DC 3.7V by Internal battery		
Temperature:	23.9°C	Humidity:	51 % RH
Atmosphere Pressure:	100.7kPa		

9.6. Test Result

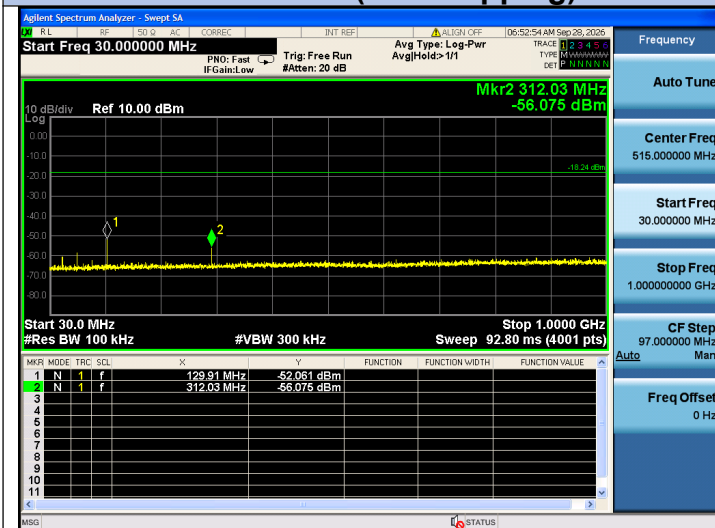
GFSK_DH5_Ant1_CH00 2402MHz Reference (Non-Hopping)



GFSK_DH5_Ant1_CH39 2441MHz Reference (Non-Hopping)



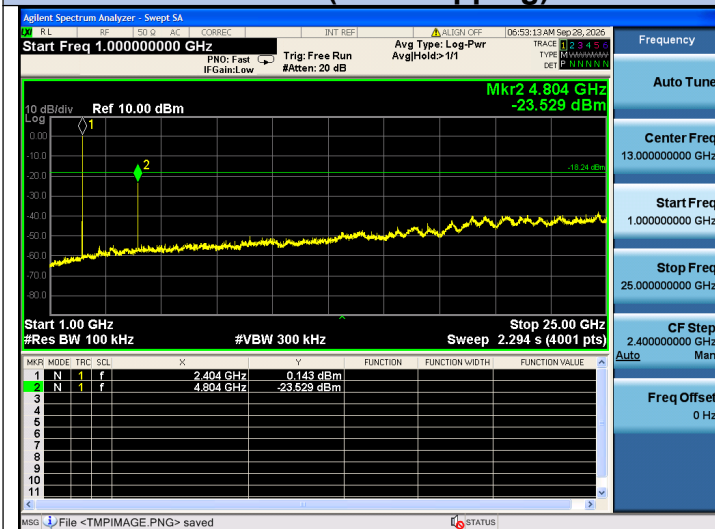
GFSK_DH5_Ant1_CH00 2402MHz 30-1000MHz (Non-Hopping)



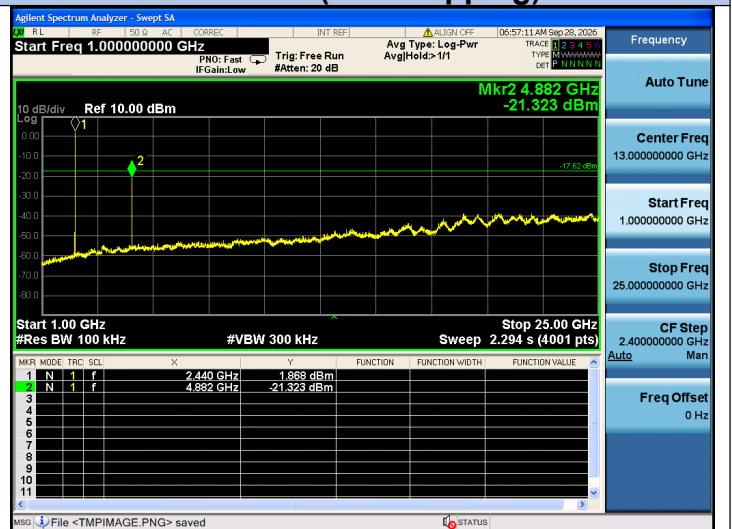
GFSK_DH5_Ant1_CH39 2441MHz 30-1000MHz (Non-Hopping)

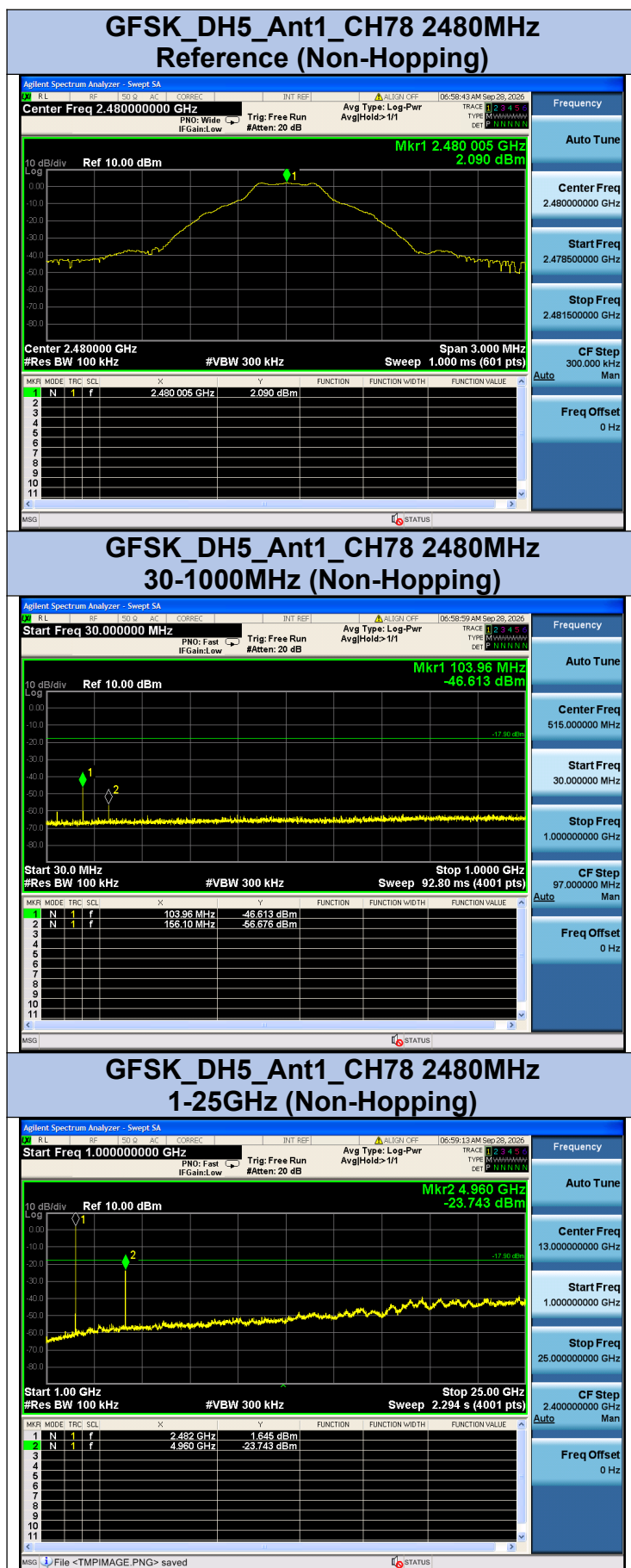


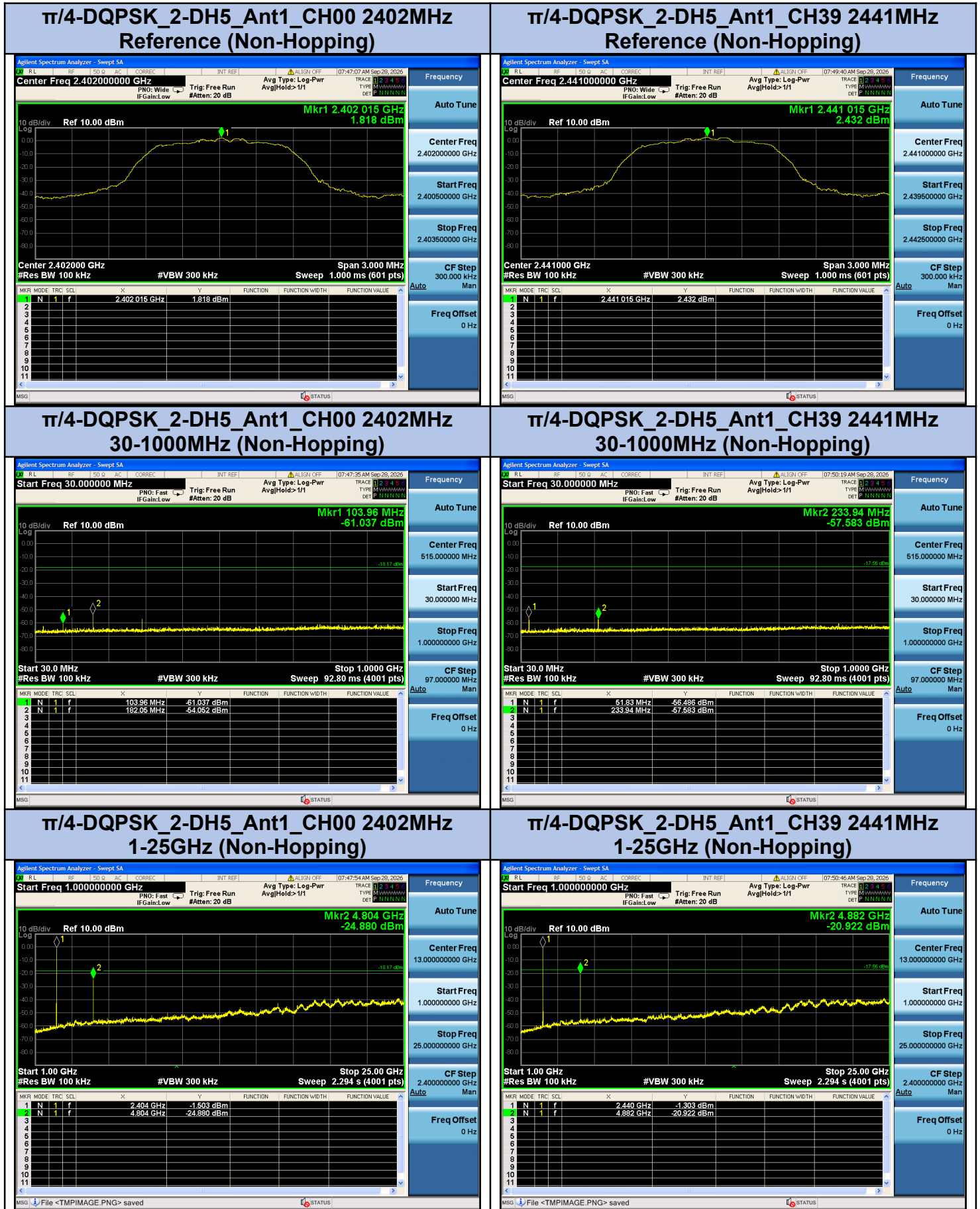
GFSK_DH5_Ant1_CH00 2402MHz 1-25GHz (Non-Hopping)

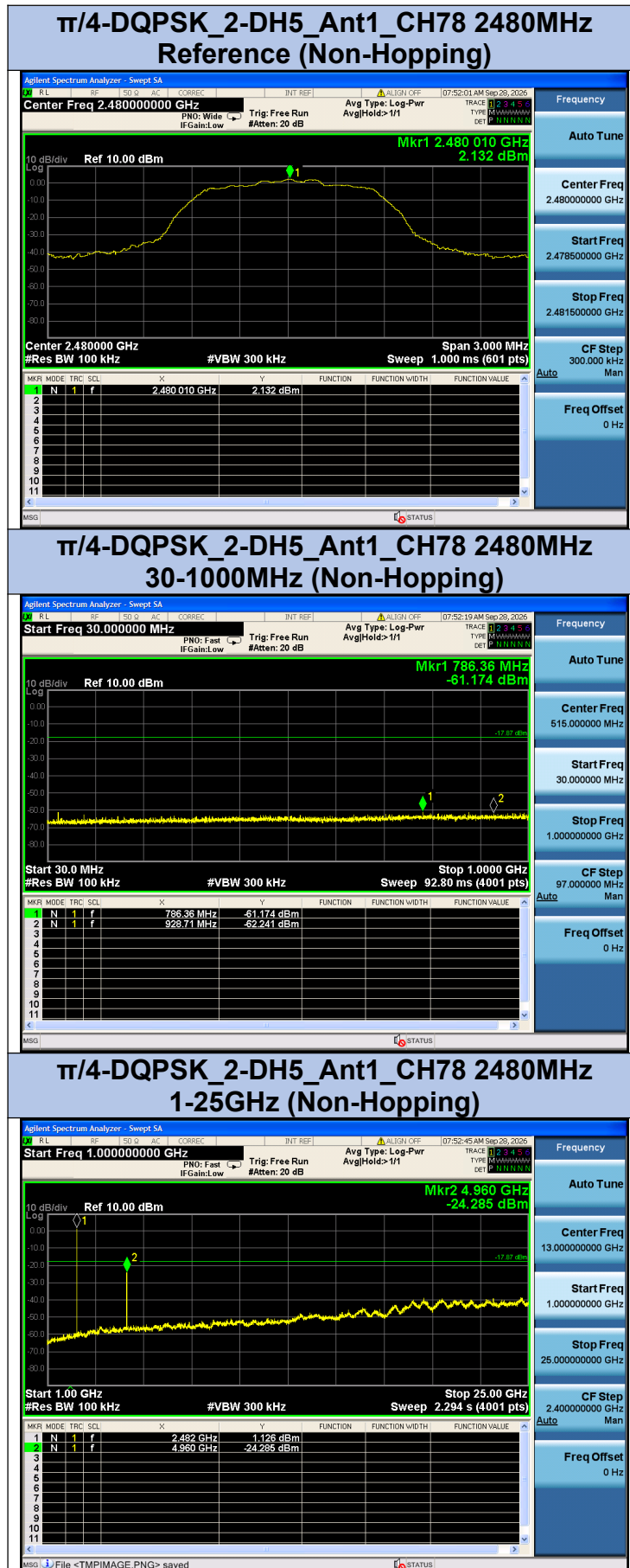


GFSK_DH5_Ant1_CH39 2441MHz 1-25GHz (Non-Hopping)

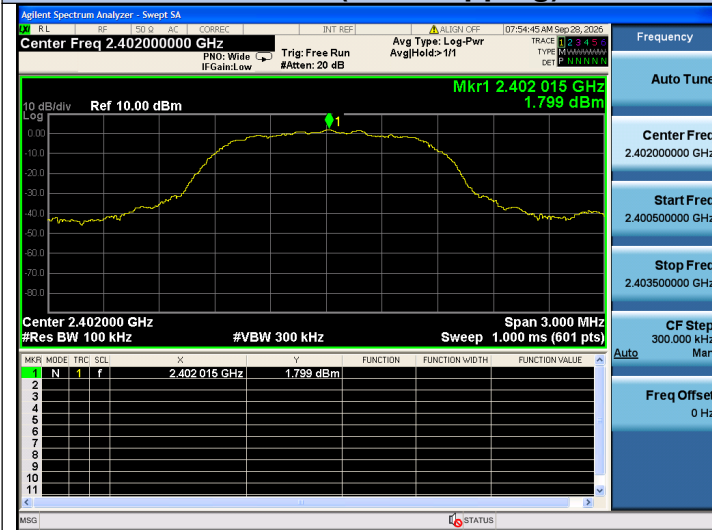




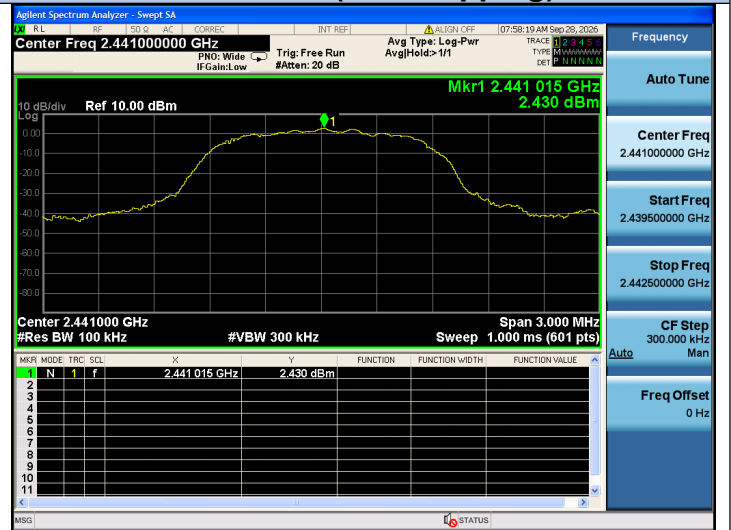




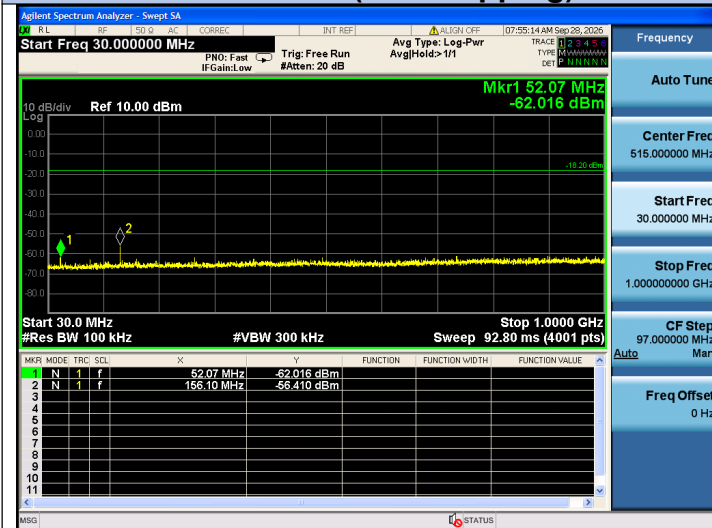
8-DPSK_3-DH5_Ant1_CH00 2402MHz Reference (Non-Hopping)



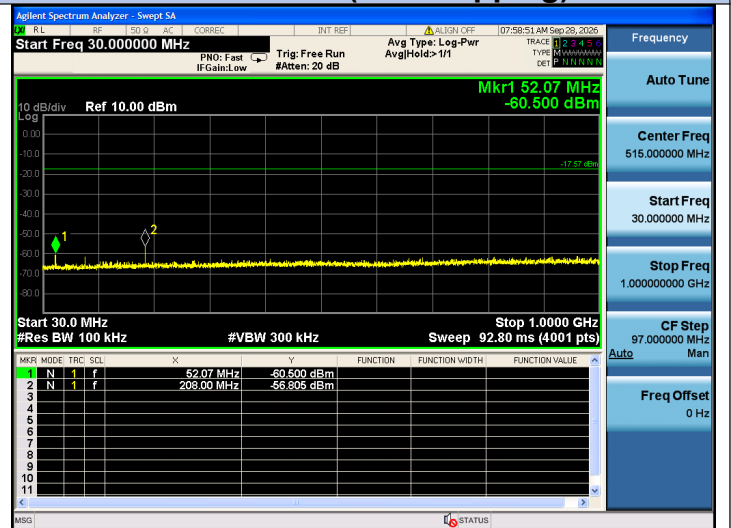
8-DPSK_3-DH5_Ant1_CH39 2441MHz Reference (Non-Hopping)



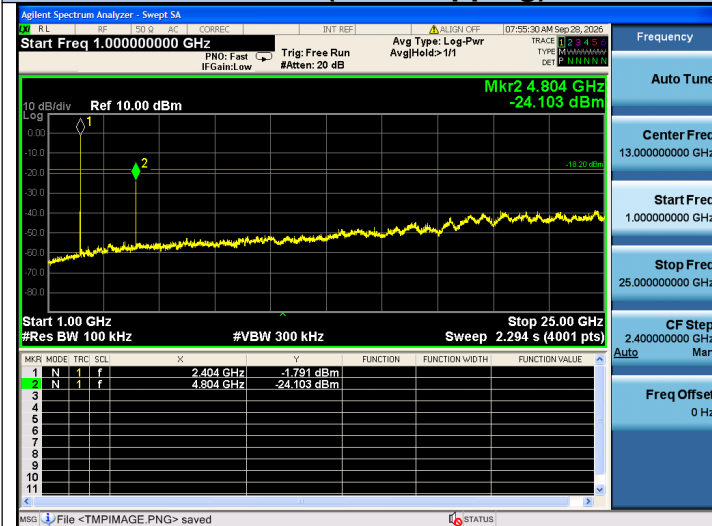
8-DPSK_3-DH5_Ant1_CH00 2402MHz 30-1000MHz (Non-Hopping)



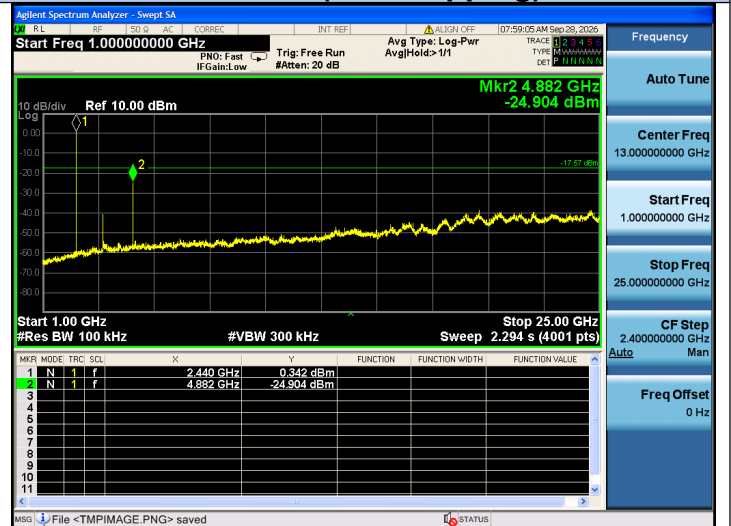
8-DPSK_3-DH5_Ant1_CH39 2441MHz 30-1000MHz (Non-Hopping)

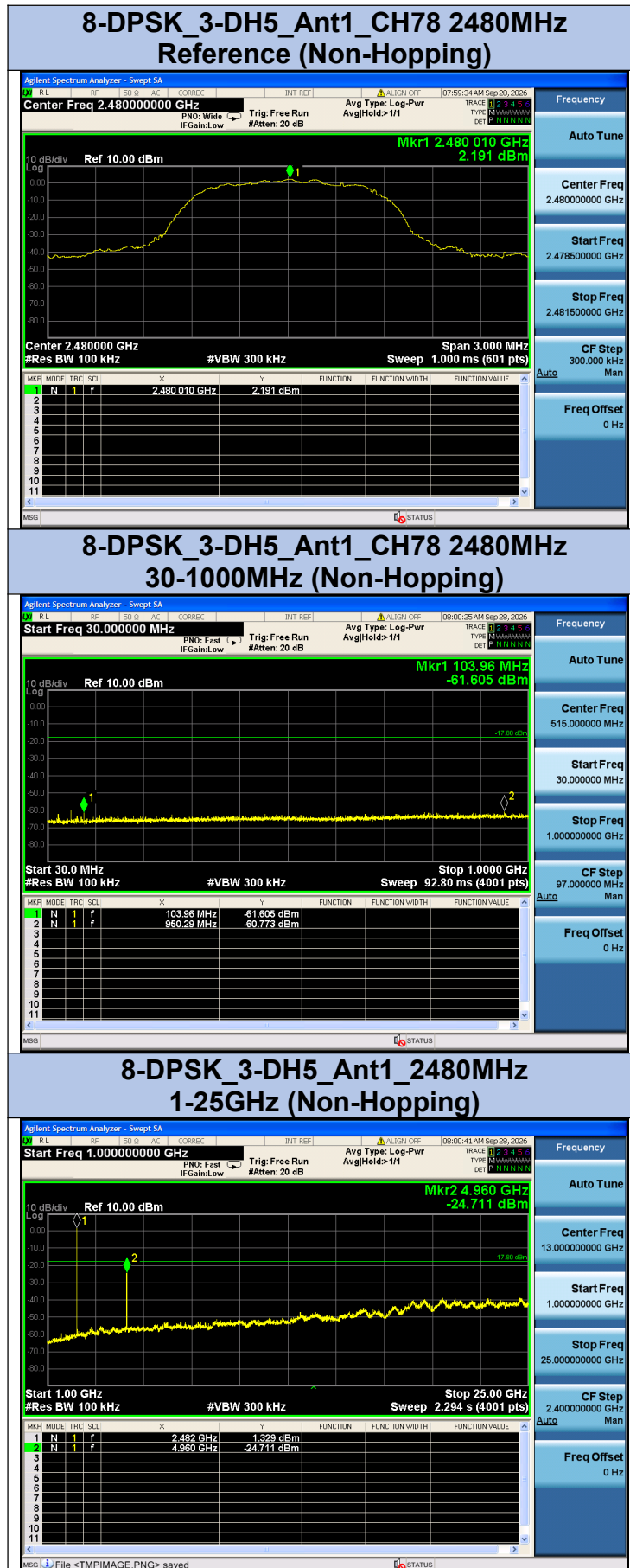


8-DPSK_3-DH5_Ant1_CH00 2402MHz 1-25GHz (Non-Hopping)



8-DPSK_3-DH5_Ant1_CH39 2441MHz 1-25GHz (Non-Hopping)





10. RADIATED SPURIOUS EMISSIONS AND BAND EDGE

10.1. Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

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	(2)

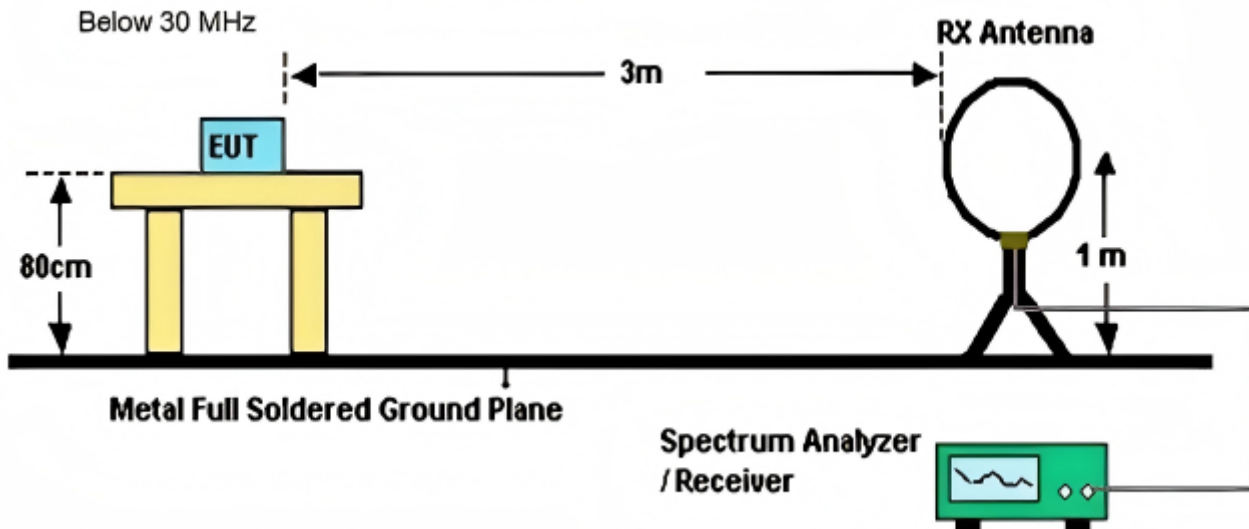
15.209 Limit		
Frequency (MHz)	Field Strength($\mu\text{V}/\text{m}$)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

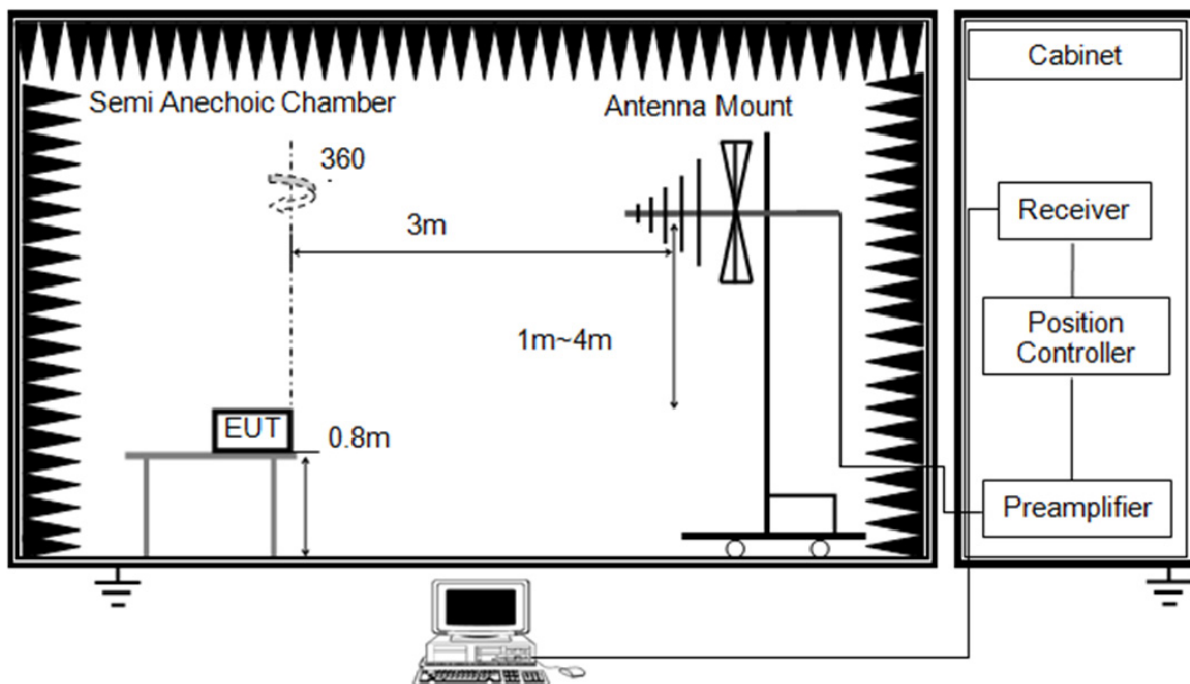
- (1) Emission level $\text{dB}\mu\text{V} = 20 \log \text{Emission level } \mu\text{V}/\text{m}$.
- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

10.2. Test Setup

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz

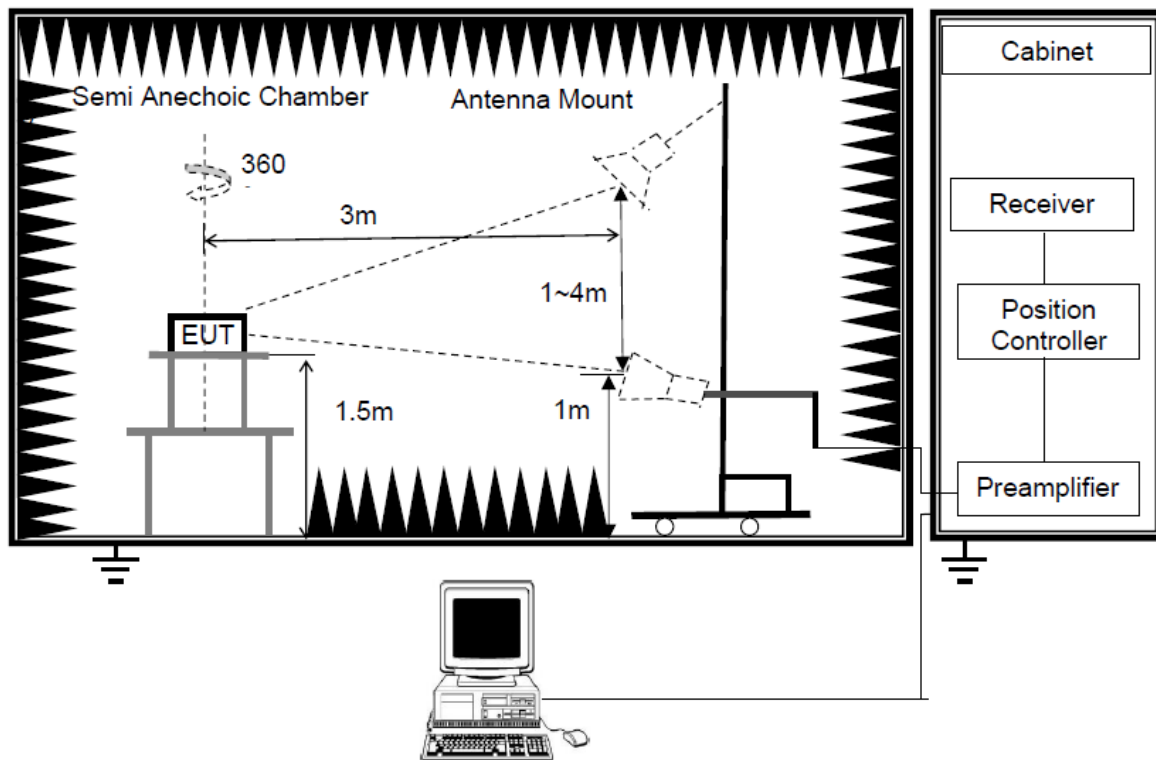


(B) Radiated Emission Test Set-Up, Frequency below 1000MHz Below 1 GHz and above 30 MHz



(C) Radiated Emission Test Set-Up, Frequency above 1GHz

Above 1GHz



10.3. Spectrum Analyzer Setting

For 9KHz-150KHz	
Spectrum Parameters	Setting
RBW	300Hz (for Peak&AVG)/CISPR 200Hz (for QP)
VBW	300Hz (for Peak&AVG)/CISPR 200Hz (for QP)
Start frequency	9KHz
Stop frequency	150KHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

Note: For 9KHz-90KHz&110KHz-150KHz,the detector is average,other frequency is CISPR QP detector.

For 150KHz-30MHz	
Spectrum Parameters	Setting
RBW	9KHz
VBW	30KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

Note: For 150KHz-490KHz,the detector is average,other frequency is CISPR QP detector.

For 30MHz-1GHz	
Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz		
Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle≥98%, VBW=10Hz
		Duty cycle<98%,VBW≥1/T
Start frequency	1GHz	
Stop frequency	40GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

Note: T is the on-time time of the duty cycle, when EUT transmit continuously with maximum output power, unit is seconds. reference section 3 for the on-time time.

10.4. Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. The diameter of the turntable is 2 meters. The EUT is located at the center of the edge of the test support table. Since the turntable is large enough, the EUT is placed at the center of the edge of the test support table as well as at the center of the turntable.
- c. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- d. Set the EUT transmit continuously with maximum output power.
- e. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- f. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- g. Spectrum analyzer setting parameters in accordance with section 10.3.
- h. Repeat above procedures until all channels and test modes were measured.
- i. Record the results in the test report.

Note:

1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
2. The frequency 2402MHz, 2441MHz and 2480MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.
3. For 30-1000MHz Radiation emissions, GFSK, $\pi/4$ -DQPSK and 8-DPSK mode all have been tested, it was conducted under both AC 120V/60Hz and AC 240V/50Hz input voltages, there was no significant change in radiation emission. Only worse case: 8-DPSK mode with CH78 2480MHz with AC 120V/60Hz voltage is reported. The test data for all other modes and channels do not exceed the results recorded for this worst-case mode
4. Radiated emission test from 9KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9KHz to 30MHz and not Recorded in this report.
5. The amplitude of-18GHz to 25GHz spurious emission-that-is attenuated by more than 20dB below the-permissible-limit has no need-to-be-reported.

10.5. Test Conditions

Radiated Emissions 30-1000MHz			
EUT:	Bluetooth Magnetic Speaker Stand	M/N:	Y7
Test Voltage:	DC 3.7V by Internal battery		
Temperature:	23.9°C	Humidity:	58 % RH
Atmosphere Pressure:	100.7kPa		

Radiated Emissions Above 1GHz & Radiated Band Edge			
EUT:	Bluetooth Magnetic Speaker Stand	M/N:	Y7
Test Voltage:	DC 3.7V by Internal battery		
Temperature:	23.9°C	Humidity:	58 % RH
Atmosphere Pressure:	100.7kPa		

10.6. Test Result

Radiated Emissions 30-1000MHz

EUT: Bluetooth Magnetic Speaker Stand

M/N: Y7

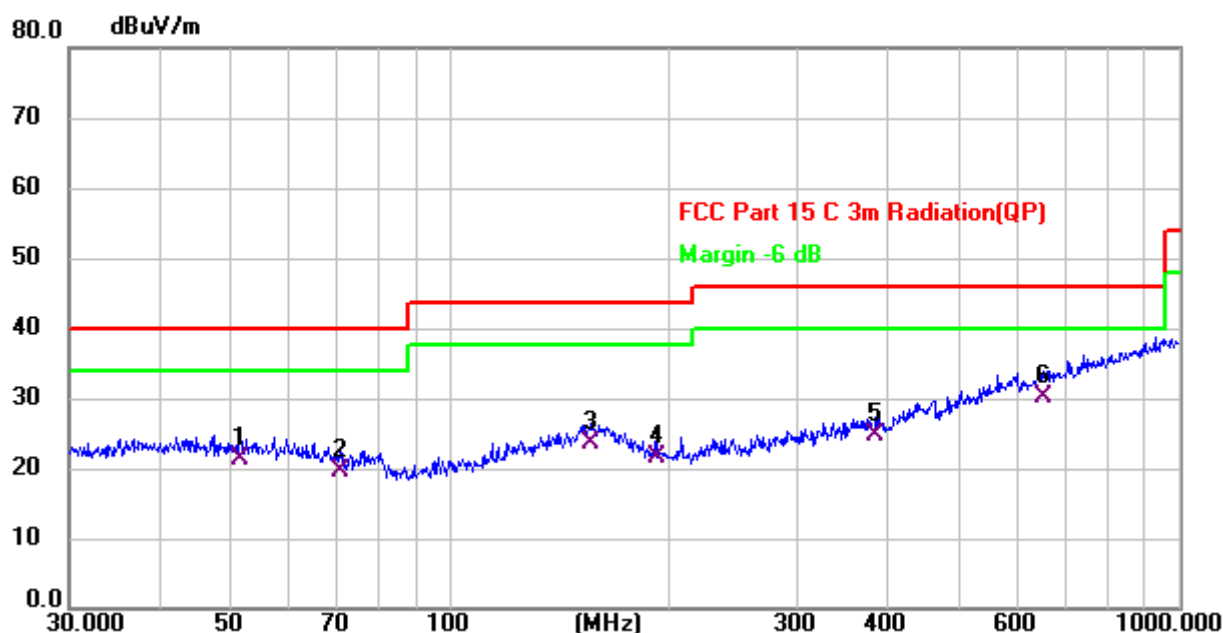
Test Voltage: DC 3.7V by Internal battery

Ant. Pol.: Vertical

Test Mode: TX Mode

Note: only worse case: 8-DPSK mode with CH78 2480MHz is reported, the test data for all other modes and channels do not exceed the results recorded for this worst-case mode

Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	51.662	2.27	19.08	21.35	40.00	-18.65	QP	P
2	70.832	3.05	16.60	19.65	40.00	-20.35	QP	P
3	156.458	3.27	20.38	23.65	43.50	-19.85	QP	P
4	191.745	4.49	17.05	21.54	43.50	-21.96	QP	P
5	383.932	2.59	22.05	24.64	46.00	-21.36	QP	P
6 *	651.942	2.00	28.24	30.24	46.00	-15.76	QP	P

Remarks: 1). Level (dBμV/m) = Reading (dBμV/m) + Factor (dB/m)
 2). Factor(dB/m) =Antenna Factor (dB/m) + Cable loss (dB)
 3). Margin(dB) = Limit (dBμV/m) - Level (dBμV/m)

EUT: Bluetooth Magnetic Speaker Stand

M/N: Y7

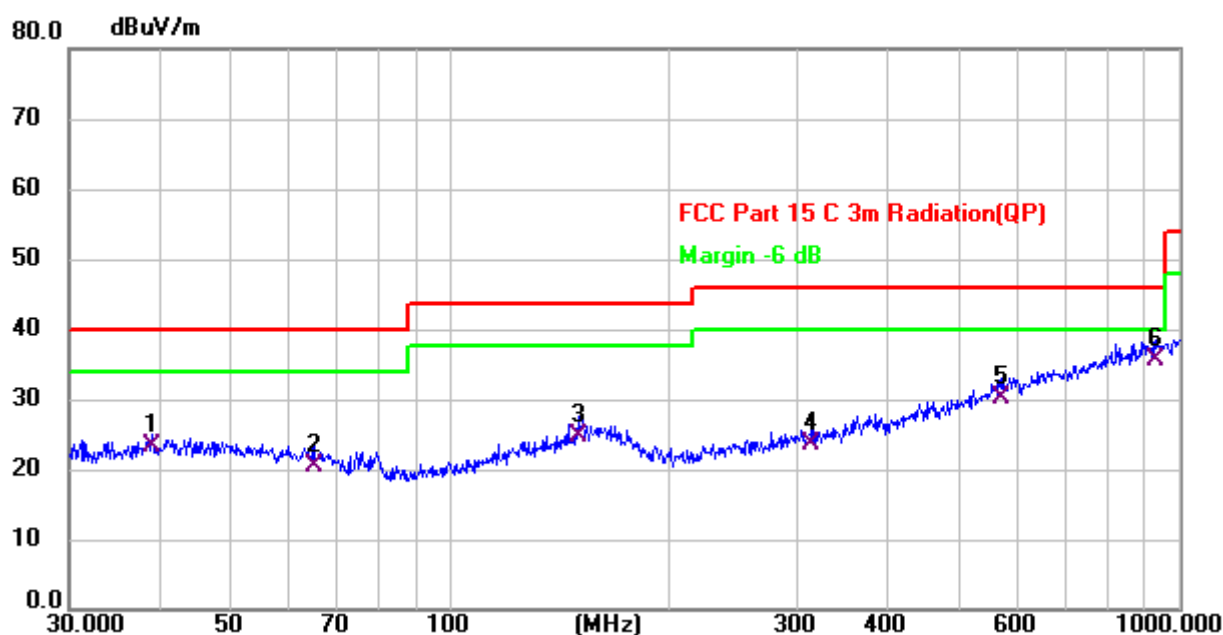
Test Voltage: DC 3.7V by Internal battery

Ant. Pol.: Horizontal

Test Mode: TX Mode

Note: only worse case: 8-DPSK mode with CH78 2480MHz is reported, the test data for all other modes and channels do not exceed the results recorded for this worst-case mode

Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	39.024	3.84	19.57	23.41	40.00	-16.59	QP	P
2	65.114	2.28	18.08	20.36	40.00	-19.64	QP	P
3	150.011	4.41	20.24	24.65	43.50	-18.85	QP	P
4	313.276	3.42	20.23	23.65	46.00	-22.35	QP	P
5	572.614	3.85	26.27	30.12	46.00	-15.88	QP	P
6 *	932.271	4.35	31.27	35.62	46.00	-10.38	QP	P

Remarks: 1). Level (dBμV/m) = Reading (dBμV/m) + Factor (dB/m)
 2). Factor(dB/m) = Antenna Factor (dB/m) + Cable loss (dB)
 3). Margin(dB) = Limit (dBμV/m) - Level (dBμV/m)

Radiated Emissions Above 1GHz - GFSK

GFSK-CH00 2402MHz (Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2289.800	40.70	-19.48	74.0	33.30	Peak	108.00	150	Vertical	Pass
1**	2289.800	30.71	-19.48	54.0	23.29	AV	108.00	150	Vertical	Pass
2	4767.750	49.70	-10.55	74.0	24.30	Peak	216.00	150	Vertical	Pass
2**	4767.750	41.35	-10.55	54.0	12.65	AV	216.00	150	Vertical	Pass
3	4804.000	52.20	-11.07	74.0	21.80	Peak	252.00	150	Vertical	Pass
3**	4804.000	49.56	-11.07	54.0	4.44	AV	252.00	150	Vertical	Pass
4	7205.750	49.49	-6.87	74.0	24.51	Peak	252.00	150	Vertical	Pass
4**	7205.750	41.93	-6.87	54.0	12.07	AV	252.00	150	Vertical	Pass
5	7786.000	52.25	-6.25	74.0	21.75	Peak	288.00	150	Vertical	Pass
5**	7786.000	42.86	-6.25	54.0	11.14	AV	288.00	150	Vertical	Pass
6	17959.000	53.57	0.42	74.0	20.43	Peak	72.00	150	Vertical	Pass
6**	17959.000	42.56	0.42	54.0	11.44	AV	72.00	150	Vertical	Pass

GFSK-CH00 2402MHz (Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2378.300	40.67	-19.33	74.0	33.33	Peak	360.00	150	Horizontal	Pass
1**	2378.300	31.20	-19.33	54.0	22.80	AV	360.00	150	Horizontal	Pass
2	4769.000	49.83	-10.55	74.0	24.17	Peak	360.00	150	Horizontal	Pass
2**	4769.000	39.94	-10.55	54.0	14.06	AV	360.00	150	Horizontal	Pass
3	4804.000	46.00	-11.07	74.0	28.00	Peak	36.00	150	Horizontal	Pass
3**	4804.000	39.37	-11.07	54.0	14.63	AV	36.00	150	Horizontal	Pass
4	7205.750	49.50	-6.87	74.0	24.50	Peak	72.00	150	Horizontal	Pass
4**	7205.750	42.33	-6.87	54.0	11.67	AV	72.00	150	Horizontal	Pass
5	7631.750	52.41	-6.63	74.0	21.59	Peak	108.00	150	Horizontal	Pass
5**	7631.750	43.96	-6.63	54.0	10.04	AV	108.00	150	Horizontal	Pass
6	17943.501	52.92	1.38	74.0	21.08	Peak	36.00	150	Horizontal	Pass
6**	17943.501	43.72	1.38	54.0	10.28	AV	36.00	150	Horizontal	Pass

GFSK-CH39 2441MHz (Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2338.900	41.12	-19.71	74.0	32.88	Peak	72.00	150	Horizontal	Pass
1**	2338.900	30.29	-19.71	54.0	23.71	AV	72.00	150	Horizontal	Pass
2	4761.000	48.43	-10.57	74.0	25.57	Peak	324.00	150	Horizontal	Pass
2**	4761.000	40.97	-10.57	54.0	13.03	AV	324.00	150	Horizontal	Pass
3	4882.000	45.77	-10.72	74.0	28.23	Peak	288.00	150	Horizontal	Pass
3**	4882.000	39.19	-10.72	54.0	14.81	AV	288.00	150	Horizontal	Pass
4	7323.000	49.78	-6.78	74.0	24.22	Peak	144.00	150	Horizontal	Pass
4**	7323.000	42.08	-6.78	54.0	11.92	AV	144.00	150	Horizontal	Pass
5	7779.750	52.41	-6.22	74.0	21.59	Peak	36.00	150	Horizontal	Pass
5**	7779.750	42.94	-6.22	54.0	11.06	AV	36.00	150	Horizontal	Pass
6	17930.000	52.61	1.65	74.0	21.39	Peak	252.00	150	Horizontal	Pass
6**	17930.000	44.58	1.65	54.0	9.42	AV	252.00	150	Horizontal	Pass

GFSK-CH39 2441MHz (Non-Hopping)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2302.600	40.78	-19.52	74.0	33.22	Peak	108.00	150	Vertical	Pass
1**	2302.600	31.30	-19.52	54.0	22.70	AV	108.00	150	Vertical	Pass
2	4855.750	53.84	-10.73	74.0	20.16	Peak	324.00	150	Vertical	Pass
2**	4855.750	50.15	-10.73	54.0	3.85	AV	324.00	150	Vertical	Pass
3	4882.000	44.83	-10.72	74.0	29.17	Peak	252.00	150	Vertical	Pass
3**	4882.000	38.97	-10.72	54.0	15.03	AV	252.00	150	Vertical	Pass
4	7323.000	51.22	-6.78	74.0	22.78	Peak	324.00	150	Vertical	Pass
4**	7323.000	42.26	-6.78	54.0	11.74	AV	324.00	150	Vertical	Pass
5	7936.750	53.13	-5.98	74.0	20.87	Peak	144.00	150	Vertical	Pass
5**	7936.750	44.04	-5.98	54.0	9.96	AV	144.00	150	Vertical	Pass
6	17931.000	53.25	1.64	74.0	20.75	Peak	216.00	150	Vertical	Pass
6**	17931.000	44.09	1.64	54.0	9.91	AV	216.00	150	Vertical	Pass

GFSK-CH78 2480MHz (Non-Hopping)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2253.700	41.04	-19.58	74.0	32.96	Peak	324.00	150	Vertical	Pass
1**	2253.700	30.98	-19.58	54.0	23.02	AV	324.00	150	Vertical	Pass
2	4771.500	48.95	-10.53	74.0	25.05	Peak	288.00	150	Vertical	Pass
2**	4771.500	39.91	-10.53	54.0	14.09	AV	288.00	150	Vertical	Pass
3	4959.750	54.80	-10.88	74.0	19.20	Peak	360.00	150	Vertical	Pass
3**	4959.750	51.64	-10.88	54.0	2.36	AV	360.00	150	Vertical	Pass
4	7439.750	49.57	-6.77	74.0	24.43	Peak	36.00	150	Vertical	Pass
4**	7439.750	43.00	-6.77	54.0	11.00	AV	36.00	150	Vertical	Pass
5	7917.000	53.18	-6.27	74.0	20.82	Peak	180.00	150	Vertical	Pass
5**	7917.000	43.50	-6.27	54.0	10.50	AV	180.00	150	Vertical	Pass
6	17877.500	52.54	1.34	74.0	21.46	Peak	72.00	150	Vertical	Pass
6**	17877.500	43.62	1.34	54.0	10.38	AV	72.00	150	Vertical	Pass

GFSK-CH78 2480MHz (Non-Hopping)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2384.400	41.48	-19.28	74.0	32.52	Peak	324.00	150	Horizontal	Pass
1**	2384.400	31.57	-19.28	54.0	22.43	AV	324.00	150	Horizontal	Pass
2	4749.250	48.88	-10.40	74.0	25.12	Peak	144.00	150	Horizontal	Pass
2**	4749.250	39.64	-10.40	54.0	14.36	AV	144.00	150	Horizontal	Pass
3	4959.750	45.85	-10.88	74.0	28.15	Peak	216.00	150	Horizontal	Pass
3**	4959.750	39.39	-10.88	54.0	14.61	AV	216.00	150	Horizontal	Pass
4	7439.750	49.14	-6.77	74.0	24.86	Peak	360.00	150	Horizontal	Pass
4**	7439.750	42.64	-6.77	54.0	11.36	AV	360.00	150	Horizontal	Pass
5	7752.250	52.57	-6.37	74.0	21.43	Peak	288.00	150	Horizontal	Pass
5**	7752.250	43.03	-6.37	54.0	10.97	AV	288.00	150	Horizontal	Pass
6	17942.999	52.55	1.40	74.0	21.45	Peak	324.00	150	Horizontal	Pass
6**	17942.999	43.41	1.40	54.0	10.59	AV	324.00	150	Horizontal	Pass

Radiated Emissions Above 1GHz - $\pi/4$ -DQPSK $\pi/4$ -DQPSK-CH00 2402MHz (Non-Hopping)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2371.600	40.98	-19.49	74.0	33.02	Peak	128.60	150	Horizontal	Pass
1**	2371.600	31.00	-19.49	54.0	23.00	AV	128.60	150	Horizontal	Pass
2	4780.250	49.53	-10.48	74.0	24.47	Peak	239.70	150	Horizontal	Pass
2**	4780.250	40.18	-10.48	54.0	13.82	AV	239.70	150	Horizontal	Pass
3	4804.000	47.22	-11.07	74.0	26.78	Peak	359.20	150	Horizontal	Pass
3**	4804.000	40.50	-11.07	54.0	13.50	AV	359.20	150	Horizontal	Pass
4	7205.750	49.50	-6.87	74.0	24.50	Peak	359.20	150	Horizontal	Pass
4**	7205.750	43.01	-6.87	54.0	10.99	AV	359.20	150	Horizontal	Pass
5	7680.000	53.13	-6.43	74.0	20.87	Peak	360.00	150	Horizontal	Pass
5**	7680.000	43.15	-6.43	54.0	10.85	AV	360.00	150	Horizontal	Pass
6	17926.001	53.72	1.34	74.0	20.28	Peak	63.80	150	Horizontal	Pass
6**	17926.001	44.80	1.34	54.0	9.20	AV	63.80	150	Horizontal	Pass

 $\pi/4$ -DQPSK-CH00 2402MHz (Non-Hopping)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2277.700	40.90	-19.41	74.0	33.10	Peak	108.00	150	Vertical	Pass
1**	2277.700	30.83	-19.41	54.0	23.17	AV	108.00	150	Vertical	Pass
2	4787.500	49.72	-10.54	74.0	24.28	Peak	324.00	150	Vertical	Pass
2**	4787.500	39.91	-10.54	54.0	14.09	AV	324.00	150	Vertical	Pass
3	4804.000	53.65	-11.07	74.0	20.35	Peak	108.00	150	Vertical	Pass
3**	4804.000	49.26	-11.07	54.0	4.74	AV	108.00	150	Vertical	Pass
4	7205.750	49.04	-6.87	74.0	24.96	Peak	360.00	150	Vertical	Pass
4**	7205.750	42.94	-6.87	54.0	11.06	AV	360.00	150	Vertical	Pass
5	7929.750	52.81	-5.93	74.0	21.19	Peak	144.00	150	Vertical	Pass
5**	7929.750	43.19	-5.93	54.0	10.81	AV	144.00	150	Vertical	Pass
6	17940.001	52.27	1.52	74.0	21.73	Peak	36.00	150	Vertical	Pass
6**	17940.001	43.14	1.52	54.0	10.86	AV	36.00	150	Vertical	Pass

 $\pi/4$ -DQPSK-CH39 2441MHz (Non-Hopping)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2264.900	40.55	-19.40	74.0	33.45	Peak	360.00	150	Vertical	Pass
1**	2264.900	31.01	-19.40	54.0	22.99	AV	360.00	150	Vertical	Pass
2	4855.500	56.16	-10.74	74.0	17.84	Peak	360.00	150	Vertical	Pass
2**	4855.500	48.80	-10.74	54.0	5.20	AV	360.00	150	Vertical	Pass
3	4882.000	46.73	-10.72	74.0	27.27	Peak	72.00	150	Vertical	Pass
3**	4882.000	39.53	-10.72	54.0	14.47	AV	72.00	150	Vertical	Pass
4	7323.000	48.94	-6.78	74.0	25.06	Peak	72.00	150	Vertical	Pass
4**	7323.000	42.82	-6.78	54.0	11.18	AV	72.00	150	Vertical	Pass
5	7941.500	52.79	-6.04	74.0	21.21	Peak	108.00	150	Vertical	Pass
5**	7941.500	43.36	-6.04	54.0	10.64	AV	108.00	150	Vertical	Pass
6	17929.001	53.14	1.57	74.0	20.86	Peak	180.00	150	Vertical	Pass
6**	17929.001	44.67	1.57	54.0	9.33	AV	180.00	150	Vertical	Pass

$\pi/4$ -DQPSK-CH39 2441MHz (Non-Hopping)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2324.900	40.89	-19.65	74.0	33.11	Peak	108.00	150	Horizontal	Pass
1**	2324.900	31.14	-19.65	54.0	22.86	AV	108.00	150	Horizontal	Pass
2	4762.000	49.25	-10.56	74.0	24.75	Peak	36.00	150	Horizontal	Pass
2**	4762.000	39.75	-10.56	54.0	14.25	AV	36.00	150	Horizontal	Pass
3	4882.000	44.47	-10.72	74.0	29.53	Peak	360.00	150	Horizontal	Pass
3**	4882.000	39.05	-10.72	54.0	14.95	AV	360.00	150	Horizontal	Pass
4	7323.000	49.20	-6.78	74.0	24.80	Peak	252.00	150	Horizontal	Pass
4**	7323.000	42.49	-6.78	54.0	11.51	AV	252.00	150	Horizontal	Pass
5	7822.250	52.48	-6.36	74.0	21.52	Peak	252.00	150	Horizontal	Pass
5**	7822.250	43.10	-6.36	54.0	10.90	AV	252.00	150	Horizontal	Pass
6	17523.499	52.77	0.99	74.0	21.23	Peak	108.00	150	Horizontal	Pass
6**	17523.499	43.11	0.99	54.0	10.89	AV	108.00	150	Horizontal	Pass

$\pi/4$ -DQPSK-CH78 2480MHz (Non-Hopping)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2123.700	40.75	-20.51	74.0	33.25	Peak	144.00	150	Horizontal	Pass
1**	2123.700	30.14	-20.51	54.0	23.86	AV	144.00	150	Horizontal	Pass
2	4789.500	49.15	-10.57	74.0	24.85	Peak	36.00	150	Horizontal	Pass
2**	4789.500	39.54	-10.57	54.0	14.46	AV	36.00	150	Horizontal	Pass
3	4959.750	46.17	-10.88	74.0	27.83	Peak	324.00	150	Horizontal	Pass
3**	4959.750	39.06	-10.88	54.0	14.94	AV	324.00	150	Horizontal	Pass
4	7439.750	49.04	-6.77	74.0	24.96	Peak	216.00	150	Horizontal	Pass
4**	7439.750	43.21	-6.77	54.0	10.79	AV	216.00	150	Horizontal	Pass
5	7825.000	52.16	-6.27	74.0	21.84	Peak	108.00	150	Horizontal	Pass
5**	7825.000	43.24	-6.27	54.0	10.76	AV	108.00	150	Horizontal	Pass
6	17933.500	53.82	1.61	74.0	20.18	Peak	324.00	150	Horizontal	Pass
6**	17933.500	44.79	1.61	54.0	9.21	AV	324.00	150	Horizontal	Pass

$\pi/4$ -DQPSK-CH78 2480MHz (Non-Hopping)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2312.800	41.01	-19.55	74.0	32.99	Peak	0.00	150	Vertical	Pass
1**	2312.800	31.51	-19.55	54.0	22.49	AV	0.00	150	Vertical	Pass
2	4769.750	48.92	-10.54	74.0	25.08	Peak	216.00	150	Vertical	Pass
2**	4769.750	41.60	-10.54	54.0	12.40	AV	216.00	150	Vertical	Pass
3	4959.750	56.74	-10.88	74.0	17.26	Peak	180.00	150	Vertical	Pass
3**	4959.750	51.65	-10.88	54.0	2.35	AV	180.00	150	Vertical	Pass
4	7439.750	49.55	-6.77	74.0	24.45	Peak	72.00	150	Vertical	Pass
4**	7439.750	42.54	-6.77	54.0	11.46	AV	72.00	150	Vertical	Pass
5	7759.750	52.67	-6.43	74.0	21.33	Peak	144.00	150	Vertical	Pass
5**	7759.750	42.67	-6.43	54.0	11.33	AV	144.00	150	Vertical	Pass
6	17978.499	52.58	1.04	74.0	21.42	Peak	288.00	150	Vertical	Pass
6**	17978.499	44.16	1.04	54.0	9.84	AV	288.00	150	Vertical	Pass

Radiated Emissions Above 1GHz - 8-DPSK

8-DPSK-CH00 2402MHz (Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2303.900	41.13	-19.52	74.0	32.87	Peak	36.00	150	Vertical	Pass
1**	2303.900	30.99	-19.52	54.0	23.01	AV	36.00	150	Vertical	Pass
2	4759.250	48.48	-10.55	74.0	25.52	Peak	0.00	150	Vertical	Pass
2**	4759.250	39.36	-10.55	54.0	14.64	AV	0.00	150	Vertical	Pass
3	4804.000	55.43	-11.07	74.0	18.57	Peak	0.00	150	Vertical	Pass
3**	4804.000	49.01	-11.07	54.0	4.99	AV	0.00	150	Vertical	Pass
4	7205.750	49.70	-6.87	74.0	24.30	Peak	216.00	150	Vertical	Pass
4**	7205.750	42.25	-6.87	54.0	11.75	AV	216.00	150	Vertical	Pass
5	7998.000	52.73	-6.33	74.0	21.27	Peak	144.00	150	Vertical	Pass
5**	7998.000	43.54	-6.33	54.0	10.46	AV	144.00	150	Vertical	Pass
6	17928.499	52.78	1.53	74.0	21.22	Peak	360.00	150	Vertical	Pass
6**	17928.499	44.88	1.53	54.0	9.12	AV	360.00	150	Vertical	Pass

8-DPSK-CH00 2402MHz (Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2203.300	41.03	-19.87	74.0	32.97	Peak	180.00	150	Horizontal	Pass
1**	2203.300	30.93	-19.87	54.0	23.07	AV	180.00	150	Horizontal	Pass
2	4770.500	48.56	-10.54	74.0	25.44	Peak	360.00	150	Horizontal	Pass
2**	4770.500	39.34	-10.54	54.0	14.66	AV	360.00	150	Horizontal	Pass
3	4804.000	46.00	-11.07	74.0	28.00	Peak	324.00	150	Horizontal	Pass
3**	4804.000	39.02	-11.07	54.0	14.98	AV	324.00	150	Horizontal	Pass
4	7205.750	49.56	-6.87	74.0	24.44	Peak	180.00	150	Horizontal	Pass
4**	7205.750	42.51	-6.87	54.0	11.49	AV	180.00	150	Horizontal	Pass
5	7729.500	53.98	-6.31	74.0	20.02	Peak	180.00	150	Horizontal	Pass
5**	7729.500	43.12	-6.31	54.0	10.88	AV	180.00	150	Horizontal	Pass
6	17930.000	53.12	1.65	74.0	20.88	Peak	36.00	150	Horizontal	Pass
6**	17930.000	44.90	1.65	54.0	9.10	AV	36.00	150	Horizontal	Pass

8-DPSK-CH39 2441MHz (Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2225.900	41.04	-19.79	74.0	32.96	Peak	252.00	150	Horizontal	Pass
1**	2225.900	31.69	-19.79	54.0	22.31	AV	252.00	150	Horizontal	Pass
2	4720.500	49.14	-10.87	74.0	24.86	Peak	36.00	150	Horizontal	Pass
2**	4720.500	39.35	-10.87	54.0	14.65	AV	36.00	150	Horizontal	Pass
3	4882.000	44.31	-10.72	74.0	29.69	Peak	144.00	150	Horizontal	Pass
3**	4882.000	39.45	-10.72	54.0	14.55	AV	144.00	150	Horizontal	Pass
4	7323.000	50.55	-6.78	74.0	23.45	Peak	252.00	150	Horizontal	Pass
4**	7323.000	41.63	-6.78	54.0	12.37	AV	252.00	150	Horizontal	Pass
5	7834.750	52.94	-6.14	74.0	21.06	Peak	36.00	150	Horizontal	Pass
5**	7834.750	42.86	-6.14	54.0	11.14	AV	36.00	150	Horizontal	Pass
6	17931.999	53.41	1.63	74.0	20.59	Peak	324.00	150	Horizontal	Pass
6**	17931.999	44.40	1.63	54.0	9.60	AV	324.00	150	Horizontal	Pass

8-DPSK-CH39 2441MHz (Non-Hopping)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2268.200	40.40	-19.36	74.0	33.60	Peak	144.00	150	Vertical	Pass
1**	2268.200	30.75	-19.36	54.0	23.25	AV	144.00	150	Vertical	Pass
2	4856.000	56.64	-10.73	74.0	17.36	Peak	360.00	150	Vertical	Pass
2**	4856.000	50.14	-10.73	54.0	3.86	AV	360.00	150	Vertical	Pass
3	4882.000	44.45	-10.72	74.0	29.55	Peak	144.00	150	Vertical	Pass
3**	4882.000	38.68	-10.72	54.0	15.32	AV	144.00	150	Vertical	Pass
4	7323.000	48.99	-6.78	74.0	25.01	Peak	288.00	150	Vertical	Pass
4**	7323.000	43.09	-6.78	54.0	10.91	AV	288.00	150	Vertical	Pass
5	7712.000	52.45	-6.34	74.0	21.55	Peak	144.00	150	Vertical	Pass
5**	7712.000	43.26	-6.34	54.0	10.74	AV	144.00	150	Vertical	Pass
6	17938.999	52.66	1.53	74.0	21.34	Peak	108.00	150	Vertical	Pass
6**	17938.999	43.99	1.53	54.0	10.01	AV	108.00	150	Vertical	Pass

8-DPSK-CH78 2480MHz (Non-Hopping)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2271.200	40.82	-19.33	74.0	33.18	Peak	324.00	150	Vertical	Pass
1**	2271.200	30.49	-19.33	54.0	23.51	AV	324.00	150	Vertical	Pass
2	4757.500	49.73	-10.52	74.0	24.27	Peak	180.00	150	Vertical	Pass
2**	4757.500	39.59	-10.52	54.0	14.41	AV	180.00	150	Vertical	Pass
3	4959.750	56.76	-10.88	74.0	17.24	Peak	324.00	150	Vertical	Pass
3**	4959.750	51.45	-10.88	54.0	2.55	AV	324.00	150	Vertical	Pass
4	7439.750	49.20	-6.77	74.0	24.80	Peak	252.00	150	Vertical	Pass
4**	7439.750	42.92	-6.77	54.0	11.08	AV	252.00	150	Vertical	Pass
5	7894.750	52.78	-6.11	74.0	21.22	Peak	288.00	150	Vertical	Pass
5**	7894.750	44.45	-6.11	54.0	9.55	AV	288.00	150	Vertical	Pass
6	17933.001	52.63	1.62	74.0	21.37	Peak	216.00	150	Vertical	Pass
6**	17933.001	43.95	1.62	54.0	10.05	AV	216.00	150	Vertical	Pass

8-DPSK-CH78 2480MHz (Non-Hopping)

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2383.000	40.67	-19.28	74.0	33.33	Peak	36.00	150	Horizontal	Pass
1**	2383.000	31.14	-19.28	54.0	22.86	AV	36.00	150	Horizontal	Pass
2	4760.250	48.92	-10.57	74.0	25.08	Peak	180.00	150	Horizontal	Pass
2**	4760.250	39.63	-10.57	54.0	14.37	AV	180.00	150	Horizontal	Pass
3	4959.750	45.22	-10.88	74.0	28.78	Peak	36.00	150	Horizontal	Pass
3**	4959.750	38.70	-10.88	54.0	15.30	AV	36.00	150	Horizontal	Pass
4	7439.750	49.38	-6.77	74.0	24.62	Peak	72.00	150	Horizontal	Pass
4**	7439.750	42.52	-6.77	54.0	11.48	AV	72.00	150	Horizontal	Pass
5	7725.500	52.49	-6.31	74.0	21.51	Peak	360.00	150	Horizontal	Pass
5**	7725.500	43.85	-6.31	54.0	10.15	AV	360.00	150	Horizontal	Pass
6	17931.500	53.45	1.63	74.0	20.55	Peak	360.00	150	Horizontal	Pass
6**	17931.500	44.84	1.63	54.0	9.16	AV	360.00	150	Horizontal	Pass

Note:

1. Results (dBuV/m) = Raw Value (dBuV) + Factor (dB/m)
2. Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Pre-amplifier
3. Margin value = Limit - Results.

Radiated Band Edge – GFSK (Non-Hopping)

GFSK-CH00 2402MHz-Low Band Edge-(Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2375.780	42.44	-19.63	74.0	31.56	Peak	126.20	150	Horizontal	Pass
1**	2375.780	34.54	-19.63	54.0	19.46	AV	126.20	150	Horizontal	Pass
2	2389.970	39.45	-19.56	74.0	34.55	Peak	206.50	150	Horizontal	Pass
2**	2389.970	29.77	-19.56	54.0	24.23	AV	206.50	150	Horizontal	Pass
3	2399.980	53.26	-19.64	74.0	20.74	Peak	67.60	150	Horizontal	Pass
3**	2399.980	33.82	-19.64	54.0	20.18	AV	67.60	150	Horizontal	Pass

GFSK-CH00 2402MHz-Low Band Edge-(Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2324.630	41.85	-19.52	74.0	32.15	Peak	357.80	150	Vertical	Pass
1**	2324.630	30.25	-19.52	54.0	23.75	AV	357.80	150	Vertical	Pass
2	2389.970	39.71	-19.56	74.0	34.29	Peak	148.70	150	Vertical	Pass
2**	2389.970	29.83	-19.56	54.0	24.17	AV	148.70	150	Vertical	Pass
3	2399.980	58.85	-19.64	74.0	15.15	Peak	357.30	150	Vertical	Pass
3**	2399.980	37.81	-19.64	54.0	16.19	AV	357.30	150	Vertical	Pass

GFSK-CH78 2480MHz-High Band Edge-(Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.485	40.19	-19.50	74.0	33.81	Peak	51.50	150	Horizontal	Pass
1**	2483.485	30.87	-19.50	54.0	23.13	AV	51.50	150	Horizontal	Pass
2	2483.635	46.32	-19.50	74.0	27.68	Peak	64.90	150	Horizontal	Pass
2**	2483.635	30.51	-19.50	54.0	23.49	AV	64.90	150	Horizontal	Pass
3	2496.355	42.08	-19.48	74.0	31.92	Peak	7.10	150	Horizontal	Pass
3**	2496.355	30.61	-19.48	54.0	23.39	AV	7.10	150	Horizontal	Pass

GFSK-CH78 2480MHz-High Band Edge-(Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.485	53.72	-19.50	74.0	20.28	Peak	351.90	150	Vertical	Pass
1**	2483.485	34.20	-19.50	54.0	19.80	AV	351.90	150	Vertical	Pass
2	2483.635	54.16	-19.50	74.0	19.84	Peak	282.80	150	Vertical	Pass
2**	2483.635	33.34	-19.50	54.0	20.66	AV	282.80	150	Vertical	Pass
3	2499.955	42.21	-19.46	74.0	31.79	Peak	146.20	150	Vertical	Pass
3**	2499.955	30.60	-19.46	54.0	23.40	AV	146.20	150	Vertical	Pass

Radiated Band Edge – $\pi/4$ -DQPSK (Non-Hopping)

$\pi/4$ -DQPSK-CH00 2402MHz-Low Band Edge-(Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2313.300	42.27	-19.40	74.0	31.73	Peak	184.60	150	Vertical	Pass
1**	2313.300	30.20	-19.40	54.0	23.80	AV	184.60	150	Vertical	Pass
2	2389.970	39.43	-19.56	74.0	34.57	Peak	101.30	150	Vertical	Pass
2**	2389.970	29.81	-19.56	54.0	24.19	AV	101.30	150	Vertical	Pass
3	2399.980	59.03	-19.64	74.0	14.97	Peak	3.20	150	Vertical	Pass
3**	2399.980	40.15	-19.64	54.0	13.85	AV	3.20	150	Vertical	Pass

$\pi/4$ -DQPSK-CH002402MHz-Low Band Edge-(Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2341.350	41.73	-19.65	74.0	32.27	Peak	41.30	150	Horizontal	Pass
1**	2341.350	30.03	-19.65	54.0	23.97	AV	41.30	150	Horizontal	Pass
2	2389.970	39.63	-19.56	74.0	34.37	Peak	180.50	150	Horizontal	Pass
2**	2389.970	29.69	-19.56	54.0	24.31	AV	180.50	150	Horizontal	Pass
3	2399.980	51.52	-19.64	74.0	22.48	Peak	0.50	150	Horizontal	Pass
3**	2399.980	35.19	-19.64	54.0	18.81	AV	0.50	150	Horizontal	Pass

$\pi/4$ -DQPSK-CH78 2480MHz-High Band Edge-(Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.485	54.41	-19.50	74.0	19.59	Peak	279.60	150	Vertical	Pass
1**	2483.485	33.32	-19.50	54.0	20.68	AV	279.60	150	Vertical	Pass
2	2483.620	53.57	-19.50	74.0	20.43	Peak	277.20	150	Vertical	Pass
2**	2483.620	33.06	-19.50	54.0	20.94	AV	277.20	150	Vertical	Pass
3	2499.145	42.68	-19.47	74.0	31.32	Peak	6.70	150	Vertical	Pass
3**	2499.145	30.60	-19.47	54.0	23.40	AV	6.70	150	Vertical	Pass

$\pi/4$ -DQPSK-CH78 2480MHz-High Band Edge-(Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.485	39.94	-19.50	74.0	34.06	Peak	16.70	150	Horizontal	Pass
1**	2483.485	30.67	-19.50	54.0	23.33	AV	16.70	150	Horizontal	Pass
2	2483.680	46.67	-19.50	74.0	27.33	Peak	78.00	150	Horizontal	Pass
2**	2483.680	30.44	-19.50	54.0	23.56	AV	78.00	150	Horizontal	Pass
3	2495.920	42.41	-19.48	74.0	31.59	Peak	40.30	150	Horizontal	Pass
3**	2495.920	30.53	-19.48	54.0	23.47	AV	40.30	150	Horizontal	Pass

Radiated Band Edge – 8-DPSK (Non-Hopping)

8-DPSK-CH00 2402MHz-Low Band Edge-(Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2341.130	42.01	-19.65	74.0	31.99	Peak	8.90	150	Horizontal	Pass
1**	2341.130	30.33	-19.65	54.0	23.67	AV	8.90	150	Horizontal	Pass
2	2389.970	39.62	-19.56	74.0	34.38	Peak	343.30	150	Horizontal	Pass
2**	2389.970	30.25	-19.56	54.0	23.75	AV	343.30	150	Horizontal	Pass
3	2399.980	51.35	-19.64	74.0	22.65	Peak	358.10	150	Horizontal	Pass
3**	2399.980	35.40	-19.64	54.0	18.60	AV	358.10	150	Horizontal	Pass

8-DPSK-CH00 2402MHz-Low Band Edge-(Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2312.695	42.38	-19.40	74.0	31.62	Peak	196.10	150	Vertical	Pass
1**	2312.695	30.42	-19.40	54.0	23.58	AV	196.10	150	Vertical	Pass
2	2389.970	39.20	-19.56	74.0	34.80	Peak	190.50	150	Vertical	Pass
2**	2389.970	29.77	-19.56	54.0	24.23	AV	190.50	150	Vertical	Pass
3	2399.980	59.55	-19.64	74.0	14.45	Peak	10.00	150	Vertical	Pass
3**	2399.980	40.04	-19.64	54.0	13.96	AV	10.00	150	Vertical	Pass

8-DPSK-CH78 2480MHz-High Band Edge-(Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.485	52.20	-19.50	74.0	21.80	Peak	143.00	150	Vertical	Pass
1**	2483.485	34.09	-19.50	54.0	19.91	AV	143.00	150	Vertical	Pass
2	2483.620	54.28	-19.50	74.0	19.72	Peak	285.20	150	Vertical	Pass
2**	2483.620	33.04	-19.50	54.0	20.96	AV	285.20	150	Vertical	Pass
3	2492.065	42.00	-19.50	74.0	32.00	Peak	223.40	150	Vertical	Pass
3**	2492.065	30.62	-19.50	54.0	23.38	AV	223.40	150	Vertical	Pass

8-DPSK-CH78 2480MHz-High Band Edge-(Non-Hopping)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.485	41.63	-19.50	74.0	32.37	Peak	144.70	150	Horizontal	Pass
1**	2483.485	30.52	-19.50	54.0	23.48	AV	144.70	150	Horizontal	Pass
2	2483.755	46.59	-19.50	74.0	27.41	Peak	66.80	150	Horizontal	Pass
2**	2483.755	30.52	-19.50	54.0	23.48	AV	66.80	150	Horizontal	Pass
3	2497.735	41.93	-19.47	74.0	32.07	Peak	270.80	150	Horizontal	Pass
3**	2497.735	30.52	-19.47	54.0	23.48	AV	270.80	150	Horizontal	Pass

Radiated Band Edge – GFSK (Hopping On)

GFSK-Low Band Edge-(Hopping On)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2371.380	42.28	-19.66	74.0	31.72	Peak	282.80	150	Horizontal	Pass
1**	2371.380	30.01	-19.66	54.0	23.99	AV	282.80	150	Horizontal	Pass
2	2389.970	38.54	-19.56	74.0	35.46	Peak	358.10	150	Horizontal	Pass
2**	2389.970	29.75	-19.56	54.0	24.25	AV	358.10	150	Horizontal	Pass
3	2399.980	39.65	-19.64	74.0	34.35	Peak	358.80	150	Horizontal	Pass
3**	2399.980	30.27	-19.64	54.0	23.73	AV	358.80	150	Horizontal	Pass

GFSK-Low Band Edge-(Hopping On)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2337.885	41.98	-19.64	74.0	32.02	Peak	1.20	150	Vertical	Pass
1**	2337.885	30.00	-19.64	54.0	24.00	AV	1.20	150	Vertical	Pass
2	2389.970	39.69	-19.56	74.0	34.31	Peak	360.00	150	Vertical	Pass
2**	2389.970	29.88	-19.56	54.0	24.12	AV	360.00	150	Vertical	Pass
3	2399.980	45.56	-19.64	74.0	28.44	Peak	225.00	150	Vertical	Pass
3**	2399.980	35.35	-19.64	54.0	18.65	AV	225.00	150	Vertical	Pass

GFSK-High Band Edge-(Hopping On)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.485	39.86	-19.50	74.0	34.14	Peak	359.40	150	Vertical	Pass
1**	2483.485	30.91	-19.50	54.0	23.09	AV	359.40	150	Vertical	Pass
2	2483.755	53.09	-19.50	74.0	20.91	Peak	204.10	150	Vertical	Pass
2**	2483.755	30.66	-19.50	54.0	23.34	AV	204.10	150	Vertical	Pass
3	2498.635	43.10	-19.47	74.0	30.90	Peak	357.90	150	Vertical	Pass
3**	2498.635	30.65	-19.47	54.0	23.35	AV	357.90	150	Vertical	Pass

GFSK-High Band Edge-(Hopping On)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.485	40.35	-19.50	74.0	33.65	Peak	360.00	150	Horizontal	Pass
1**	2483.485	30.93	-19.50	54.0	23.07	AV	360.00	150	Horizontal	Pass
2	2483.980	46.08	-19.50	74.0	27.92	Peak	347.90	150	Horizontal	Pass
2**	2483.980	31.28	-19.50	54.0	22.72	AV	347.90	150	Horizontal	Pass
3	2499.145	41.72	-19.47	74.0	32.28	Peak	12.90	150	Horizontal	Pass
3**	2499.145	31.50	-19.47	54.0	22.50	AV	12.90	150	Horizontal	Pass

Radiated Band Edge – $\pi/4$ -DQPSK (Hopping On)

$\pi/4$-DQPSK-Low Band Edge-(Hopping On)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2343.275	42.59	-19.65	74.0	31.41	Peak	164.70	150	Horizontal	Pass
1**	2343.275	29.91	-19.65	54.0	24.09	AV	164.70	150	Horizontal	Pass
2	2389.970	39.24	-19.56	74.0	34.76	Peak	355.50	150	Horizontal	Pass
2**	2389.970	29.82	-19.56	54.0	24.18	AV	355.50	150	Horizontal	Pass
3	2399.980	48.86	-19.64	74.0	25.14	Peak	199.30	150	Horizontal	Pass
3**	2399.980	37.34	-19.64	54.0	16.66	AV	199.30	150	Horizontal	Pass

$\pi/4$-DQPSK-Low Band Edge-(Hopping On)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2312.695	41.90	-19.40	74.0	32.10	Peak	102.10	150	Vertical	Pass
1**	2312.695	30.19	-19.40	54.0	23.81	AV	102.10	150	Vertical	Pass
2	2389.970	39.24	-19.56	74.0	34.76	Peak	359.60	150	Vertical	Pass
2**	2389.970	29.60	-19.56	54.0	24.40	AV	359.60	150	Vertical	Pass
3	2399.980	50.58	-19.64	74.0	23.42	Peak	2.10	150	Vertical	Pass
3**	2399.980	41.40	-19.64	54.0	12.60	AV	2.10	150	Vertical	Pass

$\pi/4$-DQPSK-High Band Edge-(Hopping On)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.485	39.76	-19.50	74.0	34.24	Peak	225.80	150	Vertical	Pass
1**	2483.485	31.12	-19.50	54.0	22.88	AV	225.80	150	Vertical	Pass
2	2484.460	50.49	-19.50	74.0	23.51	Peak	159.10	150	Vertical	Pass
2**	2484.460	31.89	-19.50	54.0	22.11	AV	159.10	150	Vertical	Pass
3	2497.150	42.16	-19.48	74.0	31.84	Peak	0.70	150	Vertical	Pass
3**	2497.150	30.55	-19.48	54.0	23.45	AV	0.70	150	Vertical	Pass

$\pi/4$-DQPSK-High Band Edge-(Hopping On)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.485	39.76	-19.50	74.0	34.24	Peak	262.80	150	Horizontal	Pass
1**	2483.485	30.67	-19.50	54.0	23.33	AV	262.80	150	Horizontal	Pass
2	2484.070	45.46	-19.50	74.0	28.54	Peak	311.00	150	Horizontal	Pass
2**	2484.070	30.45	-19.50	54.0	23.55	AV	311.00	150	Horizontal	Pass
3	2499.220	42.09	-19.47	74.0	31.91	Peak	158.30	150	Horizontal	Pass
3**	2499.220	30.52	-19.47	54.0	23.48	AV	158.30	150	Horizontal	Pass

Radiated Band Edge – 8-DPSK (Hopping On)

8-DPSK-Low Band Edge-(Hopping On)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2314.620	41.71	-19.41	74.0	32.29	Peak	172.80	150	Horizontal	Pass
1**	2314.620	30.37	-19.41	54.0	23.63	AV	172.80	150	Horizontal	Pass
2	2389.970	39.83	-19.56	74.0	34.17	Peak	0.50	150	Horizontal	Pass
2**	2389.970	30.17	-19.56	54.0	23.83	AV	0.50	150	Horizontal	Pass
3	2399.980	51.54	-19.64	74.0	22.46	Peak	86.80	150	Horizontal	Pass
3**	2399.980	42.61	-19.64	54.0	11.39	AV	86.80	150	Horizontal	Pass

8-DPSK-Low Band Edge-(Hopping On)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2360.545	41.89	-19.71	74.0	32.11	Peak	2.70	150	Vertical	Pass
1**	2360.545	29.88	-19.71	54.0	24.12	AV	2.70	150	Vertical	Pass
2	2389.970	39.34	-19.56	74.0	34.66	Peak	294.90	150	Vertical	Pass
2**	2389.970	29.79	-19.56	54.0	24.21	AV	294.90	150	Vertical	Pass
3	2399.980	49.54	-19.64	74.0	24.46	Peak	0.70	150	Vertical	Pass
3**	2399.980	40.29	-19.64	54.0	13.71	AV	0.70	150	Vertical	Pass

8-DPSK-High Band Edge-(Hopping On)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.485	40.98	-19.50	74.0	33.02	Peak	95.60	150	Vertical	Pass
1**	2483.485	32.37	-19.50	54.0	21.63	AV	95.60	150	Vertical	Pass
2	2483.800	50.78	-19.50	74.0	23.22	Peak	146.20	150	Vertical	Pass
2**	2483.800	30.54	-19.50	54.0	23.46	AV	146.20	150	Vertical	Pass
3	2499.865	41.97	-19.46	74.0	32.03	Peak	15.30	150	Vertical	Pass
3**	2499.865	30.66	-19.46	54.0	23.34	AV	15.30	150	Vertical	Pass

8-DPSK-High Band Edge-(Hopping On)										
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.485	46.86	-19.50	74.0	27.14	Peak	323.80	150	Horizontal	Pass
1**	2483.485	30.51	-19.50	54.0	23.49	AV	323.80	150	Horizontal	Pass
2	2484.520	52.18	-19.50	74.0	21.82	Peak	80.40	150	Horizontal	Pass
2**	2484.520	30.78	-19.50	54.0	23.22	AV	80.40	150	Horizontal	Pass
3	2499.655	42.08	-19.46	74.0	31.92	Peak	176.80	150	Horizontal	Pass
3**	2499.655	30.48	-19.46	54.0	23.52	AV	176.80	150	Horizontal	Pass

Note:

- Results (dBuV/m) =Raw Value (dBuV) + Factor (dB/m)
- Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - Pre-amplifier
- Margin value = Limit - Results.

11. AC POWER LINE CONDUCTED EMISSIONS

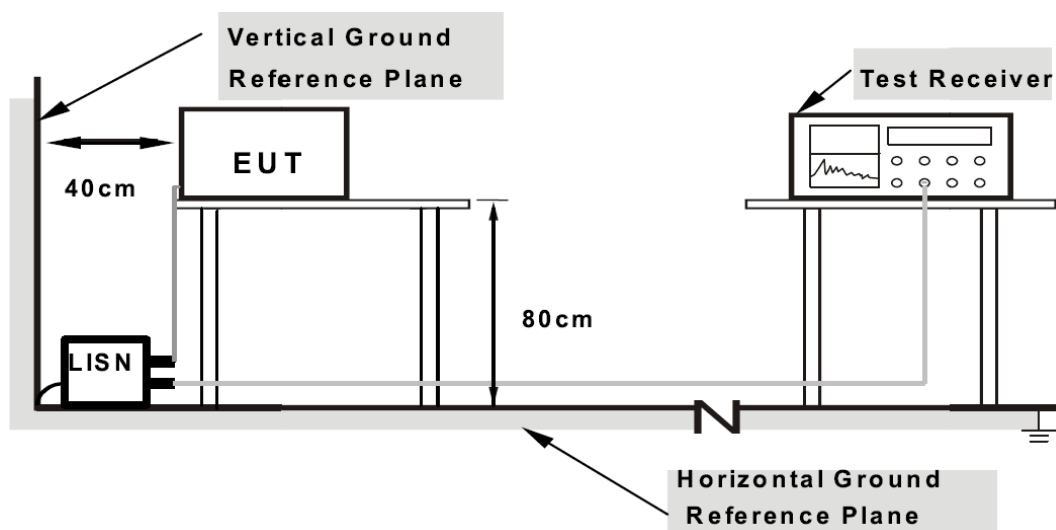
11.1. Limit

Frequency	Maximum RF Line Voltage	
	Quasi-Peak Level dB(μ V)	Average Level dB(μ V)
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*
500kHz ~ 5MHz	56	46
5MHz ~ 30MHz	60	50

Note:

1. * Decreasing linearly with logarithm of frequency.
2. The lower limit shall apply at the transition frequencies.

11.2. Test Setup



11.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting
RBW	9KHz
VBW	30KHz
Start frequency	150KHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP/AVG
Trace Mode	Max Hold

11.4. Test Procedure

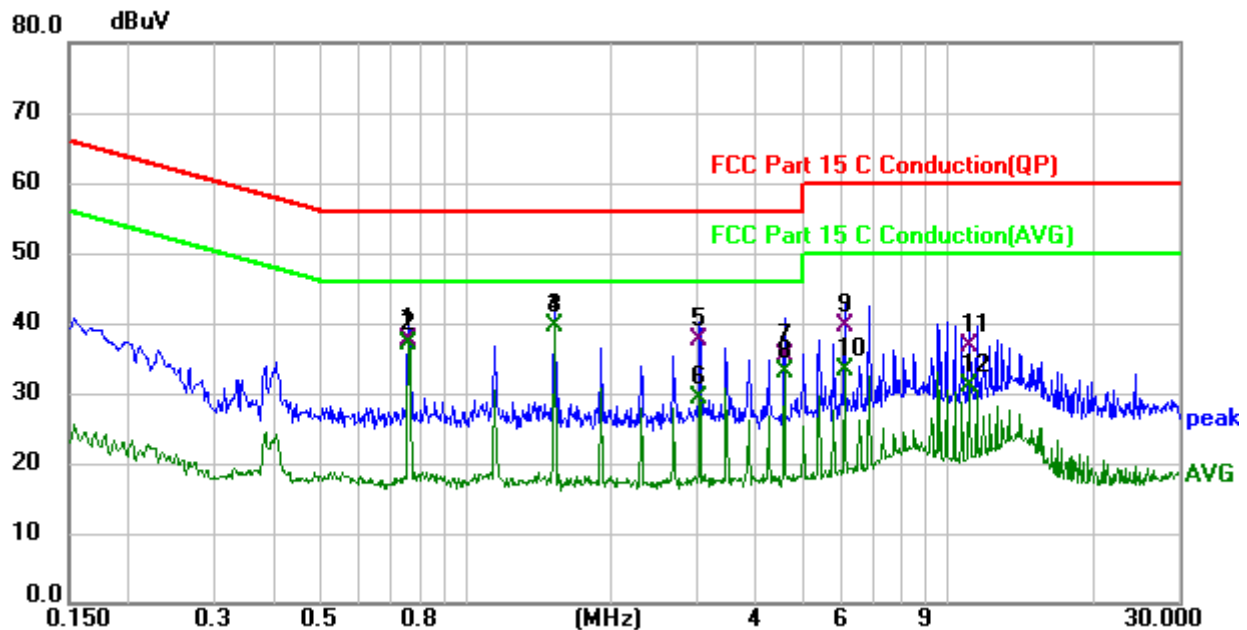
- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 11.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10 on Conducted Emission Test.
- g. It was conducted under both AC 120V/60Hz and AC 240V/50Hz input voltages, there was no significant change in radiation emission. only worse case: 8-DPSK mode with CH78 2480MHz is reported, the test data for all other modes and channels do not exceed the results recorded for this worst-case mode

11.5. Test Conditions

EUT:	Bluetooth Magnetic Speaker Stand	M/N:	Y7
Test Voltage:	DC 5V by ADAPTER; ADAPTER Input AC120V/60Hz		
Temperature:	23.7°C	Humidity:	53 % RH
Atmosphere Pressure:	100.7kPa		

11.6. Test Result

EUT: In-the-ear hearing aid
M/N: Y7
Test Voltage: DC 5V by ADAPTER; ADAPTER Input AC120V/60Hz
Phase: Live
Test Mode: TX Mode
Note: only worse case: 8-DPSK mode with CH78 2480MHz is reported
Detailed results are shown below

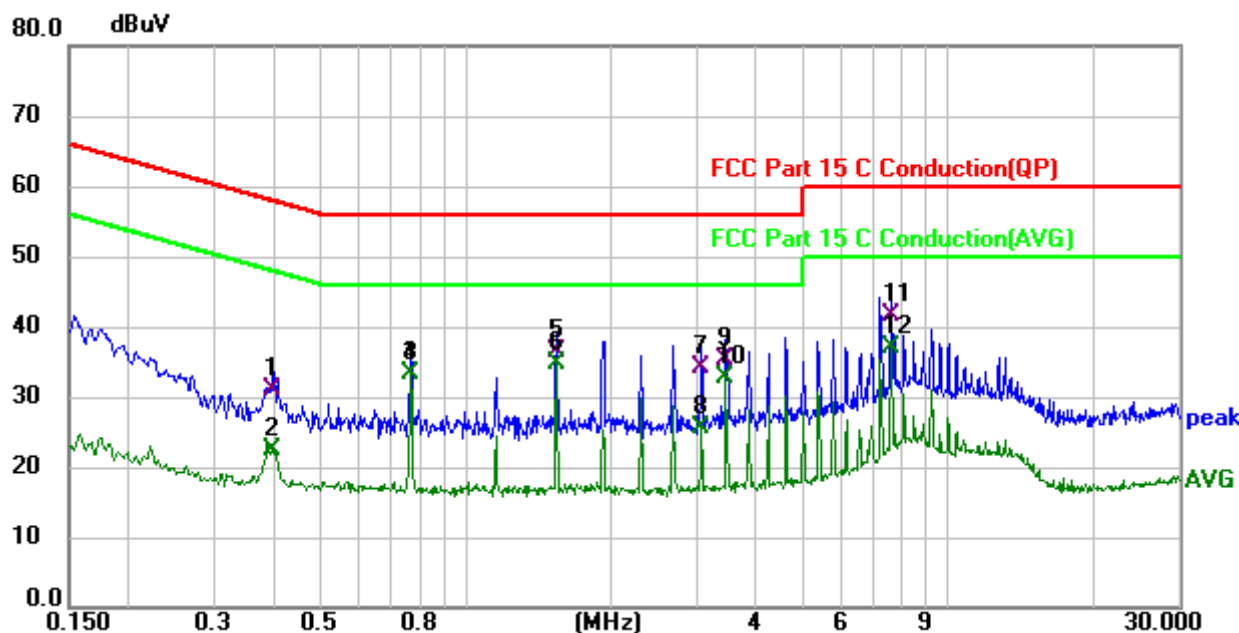


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.762	17.16	20.49	37.65	56.00	-18.35	QP	P
2	0.762	16.53	20.49	37.02	46.00	-8.98	AVG	P
3	1.526	18.97	20.57	39.54	56.00	-16.46	QP	P
4 *	1.526	18.97	20.57	39.54	46.00	-6.46	AVG	P
5	3.054	17.03	20.62	37.65	56.00	-18.35	QP	P
6	3.054	8.67	20.62	29.29	46.00	-16.71	AVG	P
7	4.582	14.58	20.66	35.24	56.00	-20.76	QP	P
8	4.582	12.45	20.66	33.11	46.00	-12.89	AVG	P
9	6.110	18.83	20.71	39.54	60.00	-20.46	QP	P
10	6.110	12.52	20.71	33.23	50.00	-16.77	AVG	P
11	11.066	16.01	20.83	36.84	60.00	-23.16	QP	P
12	11.066	10.31	20.83	31.14	50.00	-18.86	AVG	P

Remark: The test Result=Reading+ Lisen+ Cab L.

If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

EUT: In-the-ear hearing aid
M/N: Y7
Test Voltage: DC 5V by ADAPTER; ADAPTER Input AC120V/60Hz
Phase: Neutral
Test Mode: TX Mode
Note: only worse case: 8-DPSK mode with CH78 2480MHz is reported
Detailed results are shown below



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.398	10.50	20.45	30.95	57.90	-26.95	QP	P
2	0.398	1.86	20.45	22.31	47.90	-25.59	AVG	P
3	0.770	12.75	20.50	33.25	56.00	-22.75	QP	P
4	0.770	12.69	20.50	33.19	46.00	-12.81	AVG	P
5	1.542	15.79	20.66	36.45	56.00	-19.55	QP	P
6 *	1.542	13.95	20.66	34.61	46.00	-11.39	AVG	P
7	3.086	13.49	20.75	34.24	56.00	-21.76	QP	P
8	3.086	4.88	20.75	25.63	46.00	-20.37	AVG	P
9	3.466	14.48	20.76	35.24	56.00	-20.76	QP	P
10	3.466	11.87	20.76	32.63	46.00	-13.37	AVG	P
11	7.630	20.72	20.86	41.58	60.00	-18.42	QP	P
12	7.630	16.11	20.86	36.97	50.00	-13.03	AVG	P

Remark: The test Result=Reading+ Lisn+ Cab L.

If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

12. ANTENNA REQUIREMENTS

12.1. Limit

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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

12.2. Test Result

The antennas used for this product is internal antenna (PCB), so compliance with antenna requirements. (Please refer to the **Annex B. EUT Internal Photos** for details)

13.APPENDIX

"EUT of External Photos, EUT Internal Photos & Test Setup Photos" Please refer to the Annex A, Annex B& Annex C document.

CTSL2620930576E Annex A. EUT External Photos

CTSL2620930576E Annex B. EUT Internal Photos

CTSL2620930576E Annex C. Test Setup Photos

-----**End of Test Report**-----