

FCC Test Report

Report No.:	2405T77560EC
Applicant:	Shenzhen Junge Yunchuang Technology Co., Ltd.
Address:	1204, Unit 3, Building C, Fu Gui Yuan, Fu Gui Road, Fu Hua Community, Xixiang Street, Baoan District, Shenzhen, China
Product Name:	Projector
Product Model:	V800P
Multiple Models:	F505, V700, J801, J802, J701, J702
Trade Mark:	N/A
FCC ID:	2A3FP-P15
Standards:	FCC CFR Title 47 Part 15C (§15.247)
Test Date:	2024-05-30 to 2024-07-09
Test Result:	Complied
Report Date:	2024-07-10
Reviewed by:	Approved by:

Reviewed by:

Abel chen

Approved by:

Jacob Gong

Abel Chen Project Engineer Jacob Kong Manager

Prepared by:

World Alliance Testing & Certification (Shenzhen) Co., Ltd

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Report Template: TR-4-E-006/V1.1



Announcement

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2. The results in this report apply only to the sample tested.

3. This sample tested is in compliance with the limits of the above regulation.

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5. The information marked "#" is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

Revision History

Version No. Issued Date		Description
00	2024-07-10	Original



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1 General Information

1.1 Client Information

Applicant:	Shenzhen Junge Yunchuang Technology Co., Ltd.
Address:	1204, Unit 3, Building C, Fu Gui Yuan, Fu Gui Road, Fu Hua Community, Xixiang Street, Baoan District, Shenzhen, China
Manufacturer:	Shenzhen Junge Yunchuang Technology Co., Ltd.
Address:	1204, Unit 3, Building C, Fu Gui Yuan, Fu Gui Road, Fu Hua Community, Xixiang Street, Baoan District, Shenzhen, China

1.2 Product Description of EUT

The EUT is Projector that contains Classic Bluetooth, 2.4GHz and 5GHz WLAN radios, this report covers the full testing of the Classic Bluetooth radio.

Sample Serial Number	2LUU-1 for CE test, 2LUU-3 for RE test, 2LUU-2 for RF conducted test (assigned by WATC)
Sample Received Date	2024-05-27
Sample Status	Good Condition
Frequency Range	2402MHz - 2480MHz
Maximum Conducted Peak Output Power	6.71dBm
Modulation Technology	GFSK, π/4 DQPSK, 8DPSK
Spatial Streams	SISO (1TX, 1RX)
Antenna Gain [#]	2.18dBi
Power Supply	DC 35V from adapter
Adapter Information	Model: SOY-3500428-454
	Input: AC100-240V, 50/60Hz, 2.5A Max
	Output: DC 35.0V/4.28A ,149.8W
Modification	Sample No Modification by the test lab

1.3 Antenna information

15.203 requirement:

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, 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.

Device Antenna information:

The BT antenna is an internal antenna which cannot replace by end-user, please see product internal photos for details.

1.4 Related Submittal(s)/Grant(s)

FCC Part 15, Subpart C, Equipment Class: DTS, FCC ID: 2A3FP-P15

FCC Part 15, Subpart E, Equipment Class: NII, FCC ID: 2A3FP-P15

1.5 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conduc	ted Emissions	±3.14dB
	Below 30MHz	±2.78dB
Emissions, Radiated	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Emissions, Conducted		1.75dB
Conducted Power		0.74dB
Bandwidth		0.34%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

1.6 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: <u>qa@watc.com.cn</u>

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.7 Test Methodology

FCC CFR 47 Part 2 FCC CFR 47 Part 15 KDB 558074 D01 DTS Meas Guidance v05r02 ANSI C63.10-2013



2 Description of Measurement

2.1 Test Configuration

Operating channels:						
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	
0	2402	39	2441	76	2478	
1	2403	40	2442	77	2479	
				78	2480	
38	2440			/	/	
channel, and	According to ANSI C63.10-2013 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:					
Lowe	est channel	Midd	le channel	Highest o	channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	
0	2402	39	2441	78	2480	

Test Mode:						
Transmitting mode:	ansmitting mode: Keep the EUT in continuous transmitting with modulation					
Exercise software#:	SecureCRT	SecureCRT				
	_	Pc	ower Level Setting [#]			
Mode	Data rate	Low Channel	Middle Channel	High Channel		
GFSK	1Mbps	Default	Default	Default		
π/4 DQPSK	2Mbps	Default	Default	Default		
8DPSK	3Mbps Default Default Default					
The exercise software and the maximum power setting that provided by manufacturer.						

Worst-Case Configuration:

For AC power line conducted emission and radiated emission 9kHz-1GHz and above 18GHz were performed with the EUT transmits at the channel with highest output power as worst-case scenario.

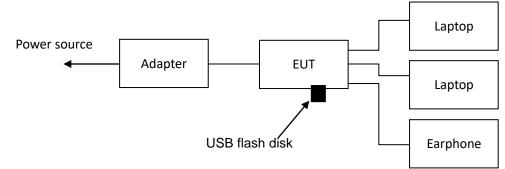
2.2 Test Auxiliary Equipment

Manufacturer	lanufacturer Description		Serial Number
aigo	USB flash disk	unknown	unknown
unknown	unknown Earphone		unknown
DELL	Laptop*2	unknown	unknown

2.3 Interconnecting Cables

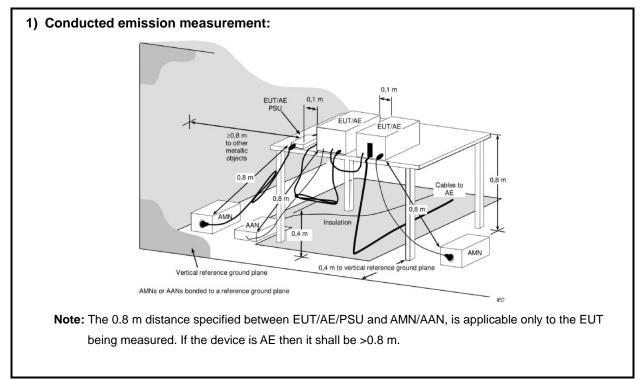
Manufacturer	Description	Description Length(m) From		То
SOY	AC Power Cable	2.0	Power Source	Adapter
SOY	DC Power Cable	Power Cable 1.2 Adapter		EUT
Unknown	Shielding HDMI cable*2	1.5	EUT	Laptop

2.4 Block Diagram of Connection between EUT and AE

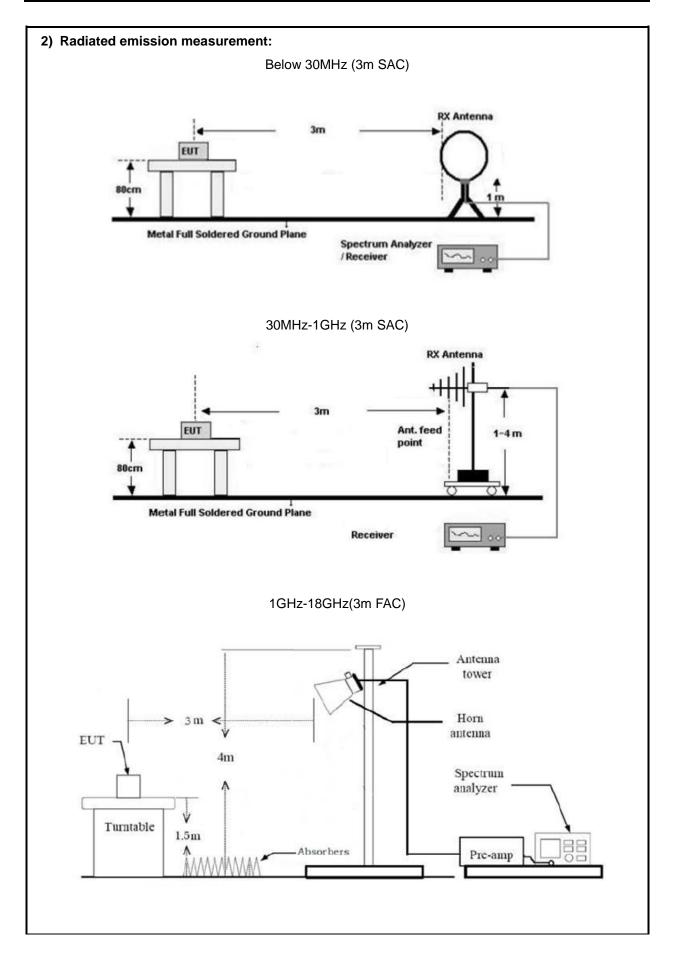


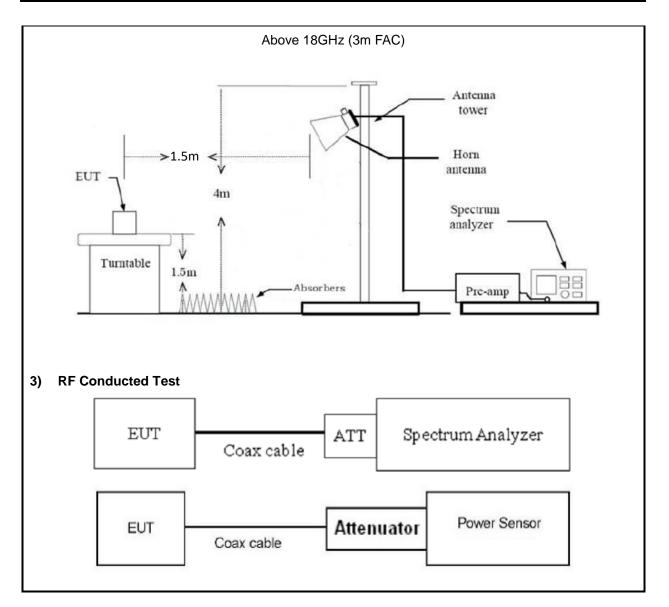
Note: for reference only, the actual connection setup used for testing please refer to the test photos.

2.5 Test Setup









2.6 Test Procedure

Conducted emission:

- 1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
- 2. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
- 3. Line conducted data is recorded for both Line and Neutral

Radiated Emission Procedure:

a) For below 30MHz

 All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz- 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the



intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance).

2. Loop antenna use, investigation was done on the three antenna orientations (parallel, perpendicular, gound-parallel)

b) For 30MHz-1GHz:

- 1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
- 2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.

c) For above 1GHz:

- The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m (1-18GHz) and 1.5 m (above 18GHz).
- 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
- 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
- 4. Base on FCC 15.31 (f) (2): 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.

RF Conducted Test:

- 1. The antenna port of EUT was connected to the RF port of the test equipment (Power Meter or Spectrum analyzer) through Attenuator and RF cable.
- 2. The cable assembly insertion loss of 7.0dB (including 6.0 dB Attenuator and 1.0 dB cable) was entered as an offset in the power meter. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 1.0dB was assumed as worst case. This was later verified to be true by laboratory. (if the RF cable provided by client, the cable loss declared by client)
- 3. The EUT is keeping in continuous transmission mode and tested in all modulation modes.



2.7 Measurement Method

Description of Test	Measurement Method	
AC Line Conducted Emissions	ANSI C63.10-2013 Section 6.2	
Maximum Conducted Output Power	ANSI C63.10-2013 Section 7.8.5	
20 dB Emission Bandwidth	ANSI C63.10-2013 Section 6.9.2	
99% Occupied Bandwidth	ANSI C63.10-2013 Section 6.9.3	
Channel separation	ANSI C63.10-2013 Section 7.8.2	
Number of hopping Frequency	ANSI C63.10-2013 Section 7.8.3	
Time of occupancy (dwell time)	ANSI C63.10-2013 Section 7.8.4	
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2013 Section 7.8.7.2&6.10	
Radiated emission	ANSI C63.10-2013 Section 7.8&6.3&6.4&6.5&6.6	

2.8 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date	
	AC Line Conducted Emission Test					
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2023/7/3	2024/7/2	
R&S	LISN	ENV216	101748	2023/8/1	2024/7/31	
N/A	Coaxial Cable	NO.12	N/A	2023/7/3	2024/7/2	
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	/	/	
	Radia	ated Emission Test(below 1GHz)			
R&S	EMI test receiver	ESR3	102758	2024/6/4	2025/6/3	
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2024/6/4	2025/6/3	
BACL	Loop Antenna	1313-1A	4010611	2024/2/7	2027/2/6	
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2026/7/6	
N/A	Coaxial Cable	NO.14	N/A	2024/6/4	2025/6/3	
N/A	Coaxial Cable	NO.16	N/A	2024/6/4	2025/6/3	
Audix	Test Software	E3	191218 V9	/	/	

	Radiated Emission Test(above 1GHz)					
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2023/7/3	2024/7/2	
COM-POWER	preamplifier	PAM-118A	18040152	2023/8/21	2024/8/20	
COM-POWER	Amplifier	PAM-840A	461306	2023/8/8	2024/8/7	
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2024/7/5	
Ducommun technologies	Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2024/7/9	
Oulitong	Band Reject Filter	OBSF-2400-248 3.5-50N	OE02103119	2023/9/15	2024/9/14	
N/A	Coaxial Cable	N/A	NO.9	2023/8/8	2024/8/7	
N/A	Coaxial Cable	N/A	NO.10	2023/8/8	2024/8/7	
N/A	Coaxial Cable	N/A	NO.11	2023/8/8	2024/8/7	
Audix	Test Software	E3	191218 V9	/	/	
	RF Conducted Test					
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSU-26	200680/026	2023/7/12	2024/7/11	
narda	6dB attenuator	603-06-1	N/A	2023/7/26	2024/7/25	

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.





3 Test Results

3.1 Test Summary

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247 (a)(1)	20dB Emission Bandwidth	Compliance
-	99% Occupied Bandwidth	Report only
§15.247 (a)(1)	Channel separation	Compliance
§15.247 (a)(1)(iii)	Number of hopping Frequency	Compliance
§15.247 (a)(1)(iii)	Time of occupancy (dwell time)	Compliance
§15.247(b)(1)	Maximum Conducted Output Power	Compliance
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.205, §15.209, §15.247(d)	Radiated emission	Compliance



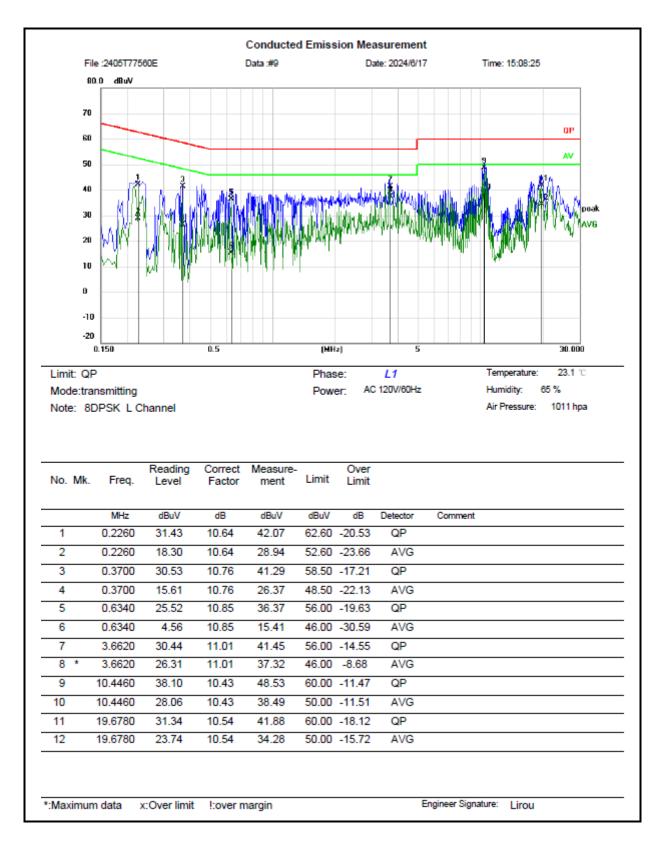
3.2 Limit

Test items	Limit
AC Line Conducted Emissions	See details §15.207 (a)
Conducted Output Power	For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.
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, whichever is greater, provided the systems operate with an output power no greater than 125 mW.
Number of hopping Frequency	Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 channels.
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.
Spurious Emissions, 100kHz Bandwidth of Frequency Band Edge	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 §15.209(a) (see §15.205(c)).

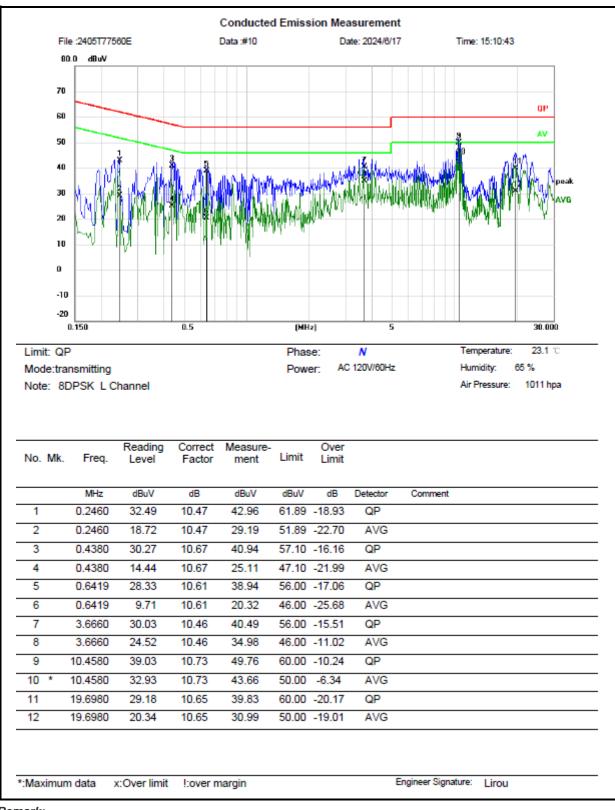


3.3 AC Line Conducted Emissions Test Data

Test Date:	2024-06-17	Test By:	Lirou Li
Environment condition:	Temperature: 23.1°C; Relative Humidity:65%; ATM Pressure: 101.1kPa		essure: 101.1kPa







Remark:

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

Correct Factor(dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

Over = Measurement - Limit



3.4 Radiated emission Test Data

9 kHz-30MHz:

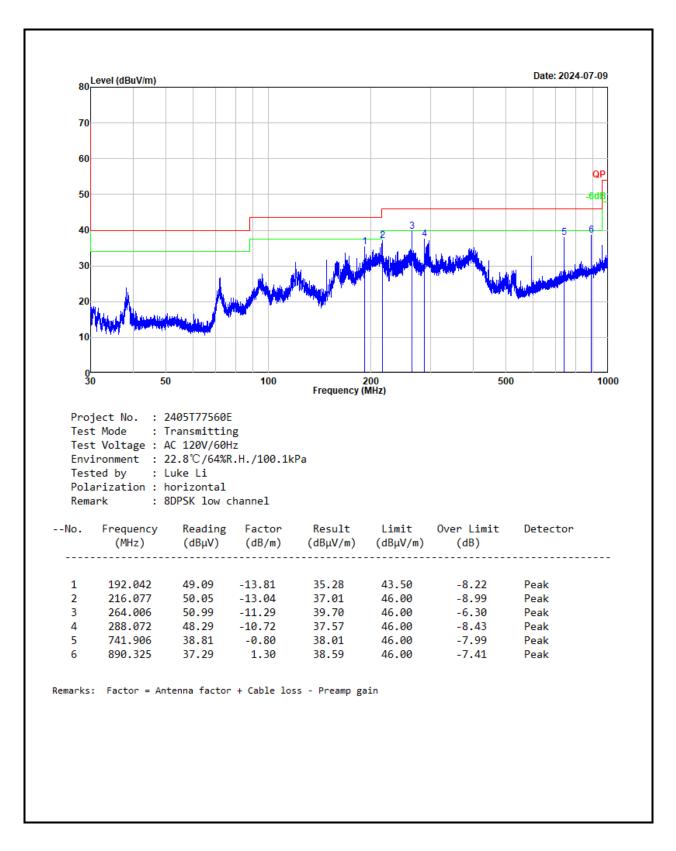
Test Date:	2024-07-09	Test By:	Luke Li	
Environment condition:	Temperature: 22.8°C; Relative Humidity:64%; ATM Pressure: 100.1kPa			

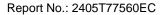
For radiated emissions below 30MHz, there were no emissions found within 20dB of limit.



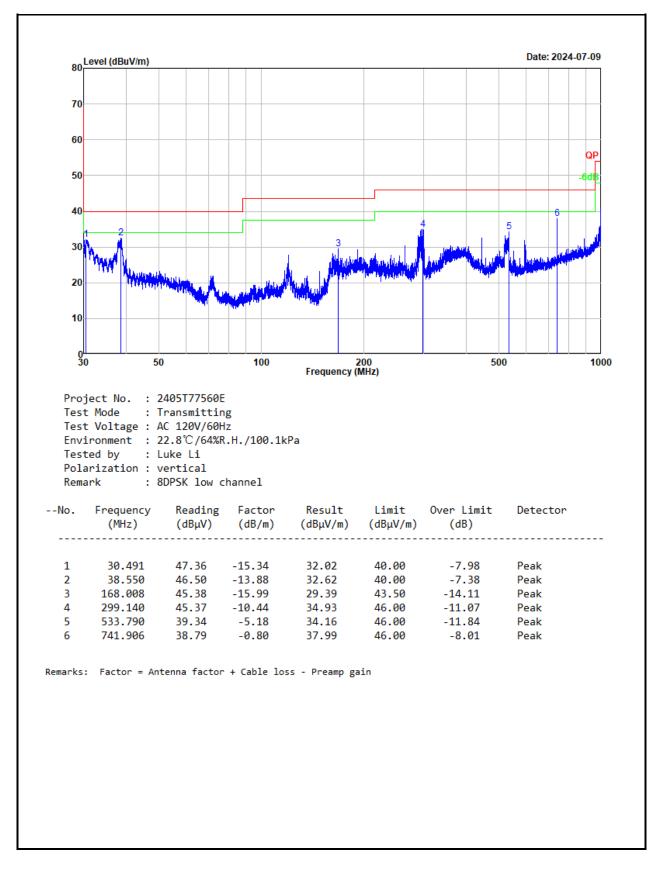
30MHz-1GHz:

Test Date:	2024-07-09	Test By:	Luke Li
Environment condition:	Temperature: 22.8°C; Relative Humidity:64%; ATM Pressure: 100.1		essure: 100.1kPa









Remark:

Result = Reading + Factor

Factor = Antenna factor + Cable loss – Amplifier gain

Over Limit = Result – Limit



Above 1GHz:

Test Date:	2024-05-30	Test By:	Bard Huang
Environment condition:	Temperature: 23.1°C; Relative	Humidity:63%; ATM Pr	essure: 99.9kPa

Frequency (MHz)	Reading level (dBµV)	Polar	Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Remark
			GFS	K			
			Low Cha	annel			
2390.000	38.01	horizontal	7.18	45.19	54.00	-8.81	Average
2390.000	48.36	horizontal	7.18	55.54	74.00	-18.46	Peak
2390.000	37.85	vertical	7.18	45.03	54.00	-8.97	Average
2390.000	47.92	vertical	7.18	55.10	74.00	-18.90	Peak
4804.000	47.85	horizontal	-0.21	47.64	74.00	-26.36	Peak
4804.000	48.69	vertical	-0.21	48.48	74.00	-25.52	Peak
			Middle C	hannel			
4882.000	49.80	horizontal	0.10	49.90	74.00	-24.10	Peak
4882.000	47.57	vertical	0.10	47.67	74.00	-26.33	Peak
			High Ch	annel			
2483.500	38.17	horizontal	7.25	45.42	54.00	-8.58	Average
2483.500	49.15	horizontal	7.25	56.40	74.00	-17.60	Peak
2483.500	37.76	vertical	7.25	45.01	54.00	-8.99	Average
2483.500	49.08	vertical	7.25	56.33	74.00	-17.67	Peak
4960.000	47.78	horizontal	0.28	48.06	74.00	-25.94	Peak
4960.000	48.01	vertical	0.28	48.29	74.00	-25.71	Peak
			π/4 DQ	PSK			
			Low Cha	annel			
2390.000	38.79	horizontal	7.18	45.97	54.00	-8.03	Average
2390.000	48.65	horizontal	7.18	55.83	74.00	-18.17	Peak
2390.000	38.06	vertical	7.18	45.24	54.00	-8.76	Average
2390.000	47.66	vertical	7.18	54.84	74.00	-19.16	Peak
4804.000	47.88	horizontal	-0.21	47.67	74.00	-26.33	Peak
4804.000	48.90	vertical	-0.21	48.69	74.00	-25.31	Peak
			Middle C	hannel			
4882.000	48.53	horizontal	0.10	48.63	74.00	-25.37	Peak
4882.000	47.05	vertical	0.10	47.15	74.00	-26.85	Peak
			High Ch	annel			
2483.500	39.02	horizontal	7.25	46.27	54.00	-7.73	Average



2483.500	48.76	horizontal	7.25	56.01	74.00	-17.99	Peak
2483.500	38.34	vertical	7.25	45.59	54.00	-8.41	Average
2483.500	47.75	vertical	7.25	55.00	74.00	-19.00	Peak
4960.000	48.37	horizontal	0.28	48.65	74.00	-25.35	Peak
4960.000	47.38	vertical	0.28	47.66	74.00	-26.34	Peak
			8DP\$	SK			
			Low Ch	annel			
2390.000	39.42	horizontal	7.18	46.60	54.00	-7.40	Average
2390.000	48.62	horizontal	7.18	55.80	74.00	-18.20	Peak
2390.000	38.48	vertical	7.18	45.66	54.00	-8.34	Average
2390.000	48.73	vertical	7.18	55.91	74.00	-18.09	Peak
4804.000	48.22	horizontal	-0.21	48.01	74.00	-25.99	Peak
4804.000	49.60	vertical	-0.21	49.39	74.00	-24.61	Peak
			Middle C	hannel			
4882.000	48.44	horizontal	0.10	48.54	74.00	-25.46	Peak
4882.000	47.54	vertical	0.10	47.64	74.00	-26.36	Peak
			High Ch	annel			
2483.542	41.34	horizontal	7.25	48.59	54.00	-5.41	Average
2483.542	52.42	horizontal	7.25	59.67	74.00	-14.33	Peak
2483.500	39.66	vertical	7.25	46.91	54.00	-7.09	Average
2483.500	49.51	vertical	7.25	56.76	74.00	-17.24	Peak
4960.000	47.17	horizontal	0.28	47.45	74.00	-26.55	Peak
4960.000	48.27	vertical	0.28	48.55	74.00	-25.45	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor Corrected Factor = Antenna factor + Cable loss – Amplifier gain Margin = Corrected Amplitude – Limit

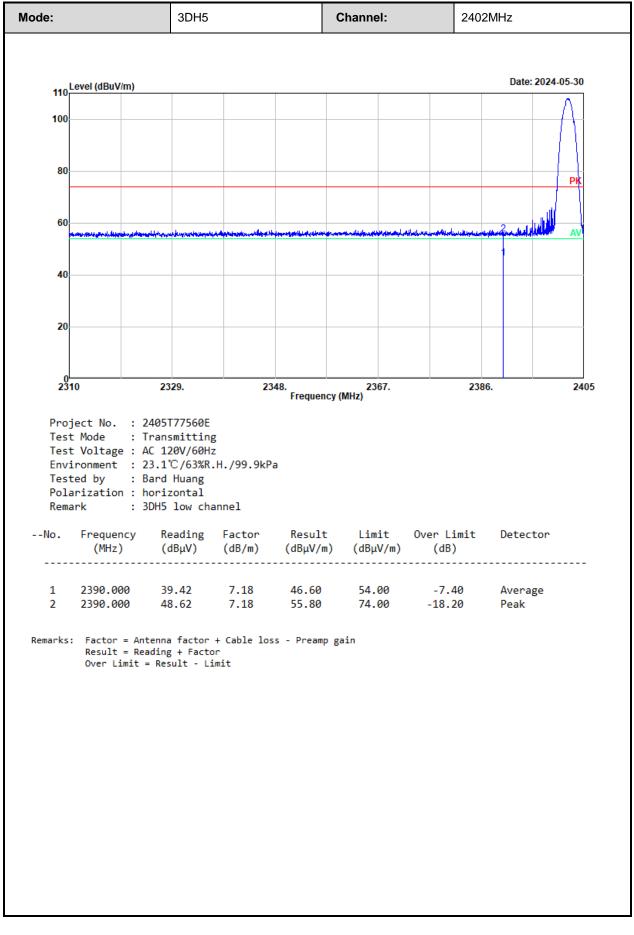
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

The emission levels of other frequencies that were lower than the limit 20dB, not show in test report.

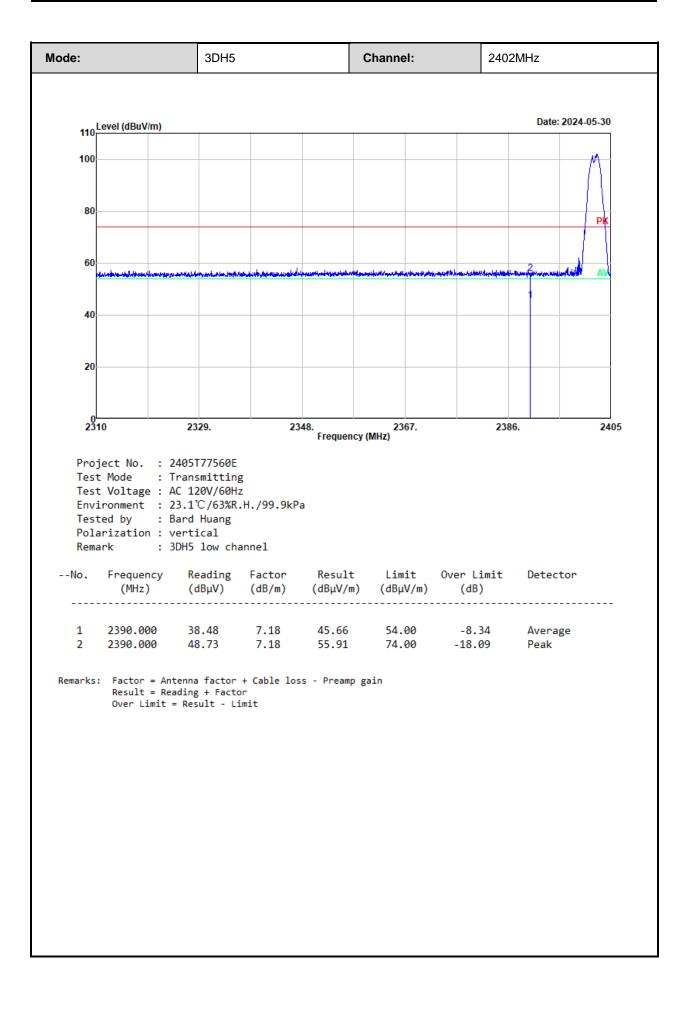
For emissions in 18GHz-25GHz range, all emissions were investigated and in the noise floor level.



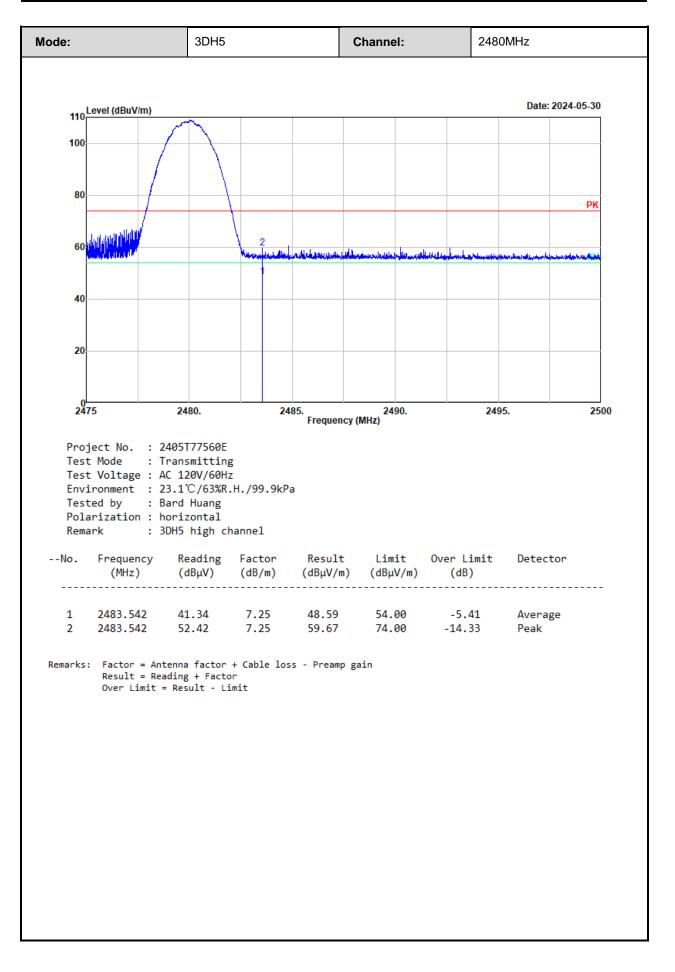
Test plot for example as below:



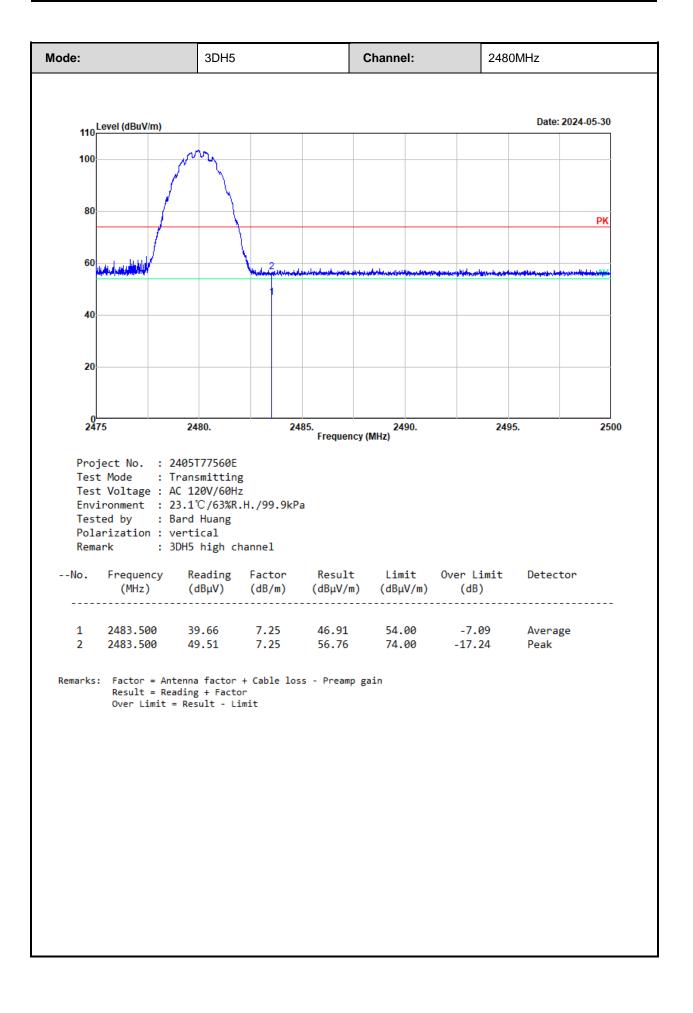




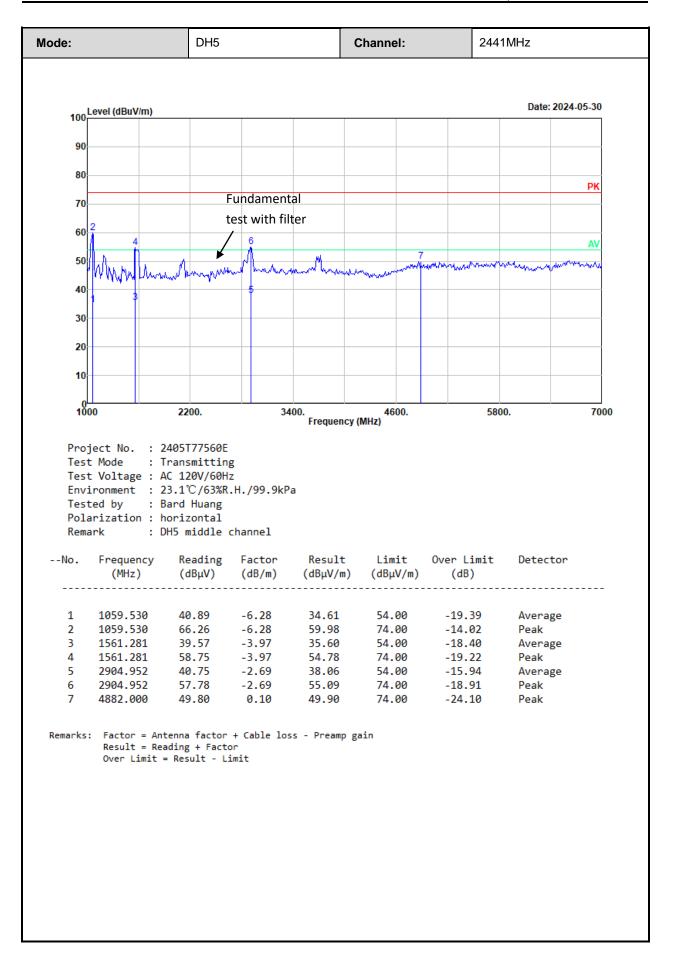




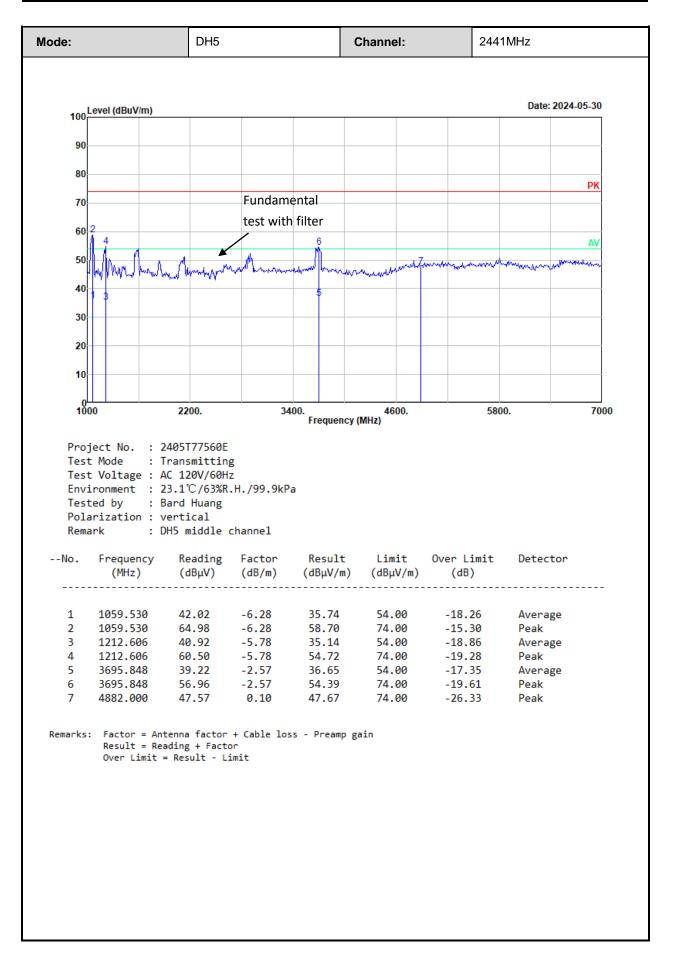




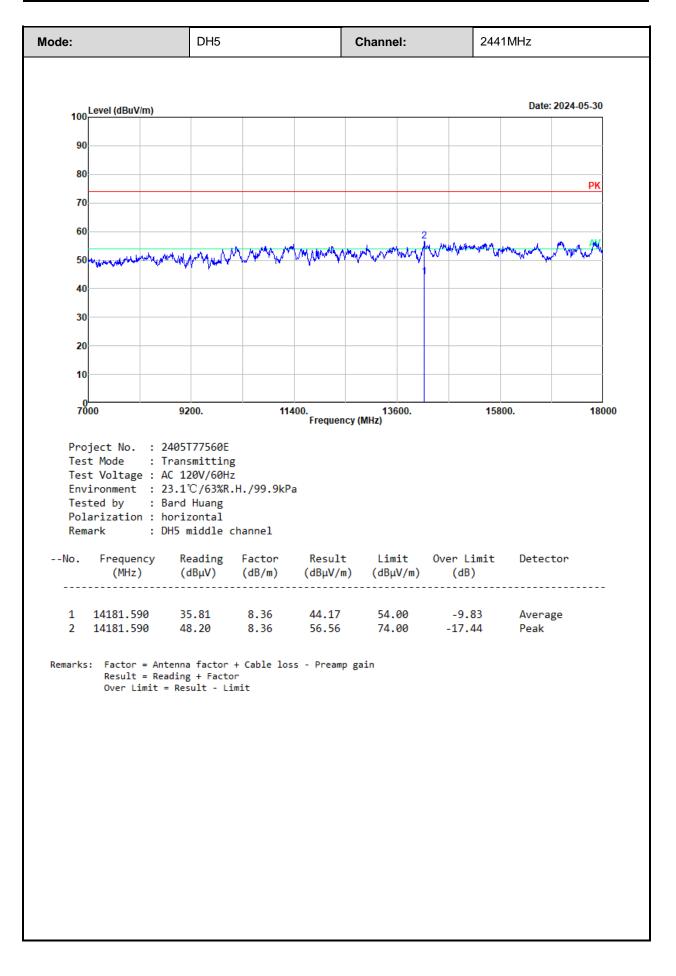




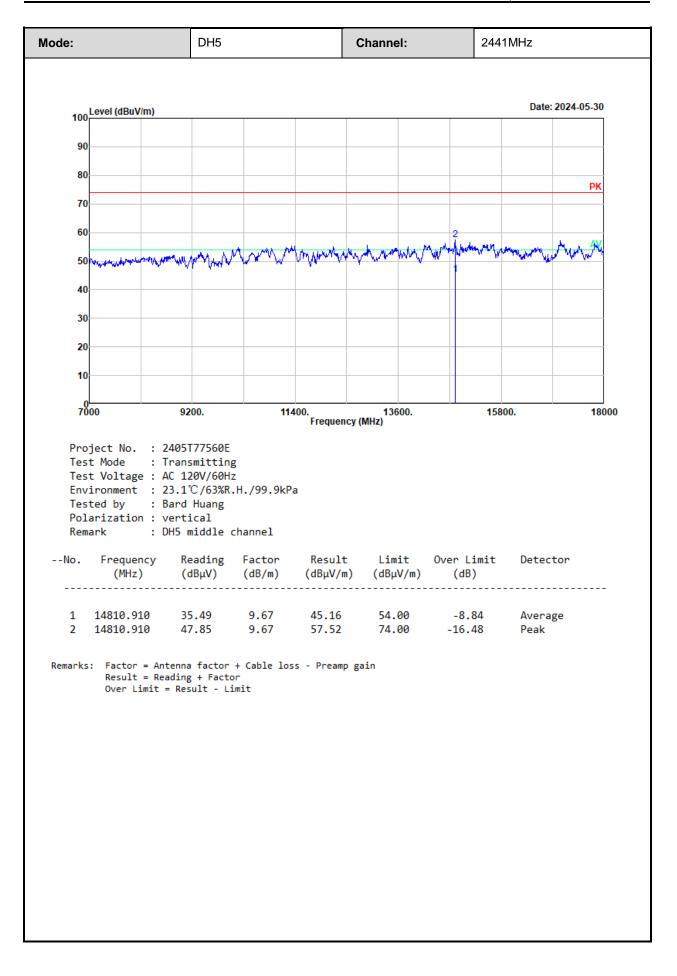




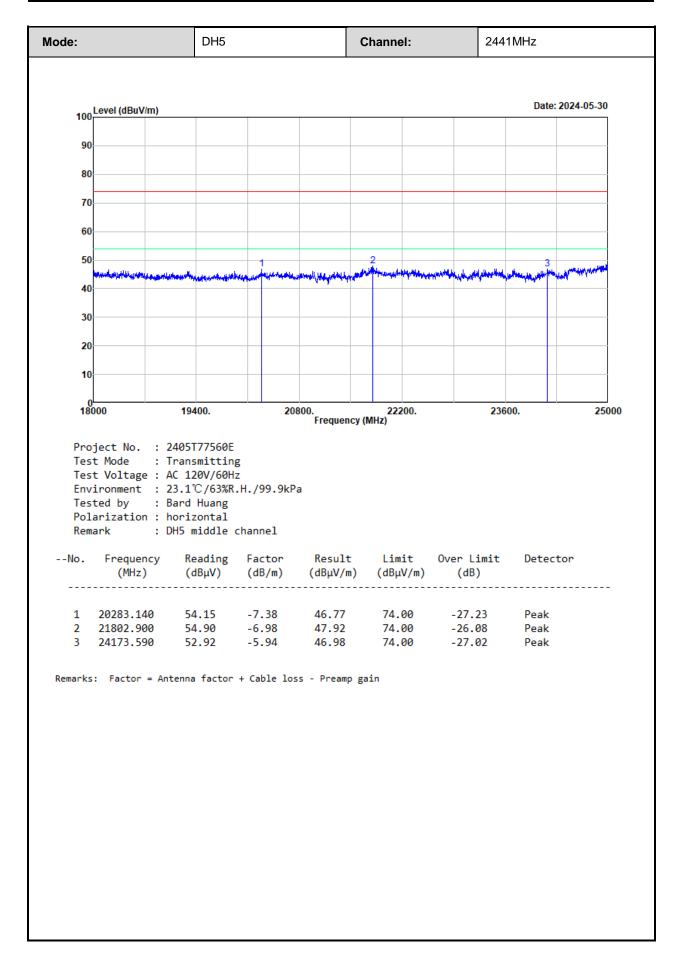




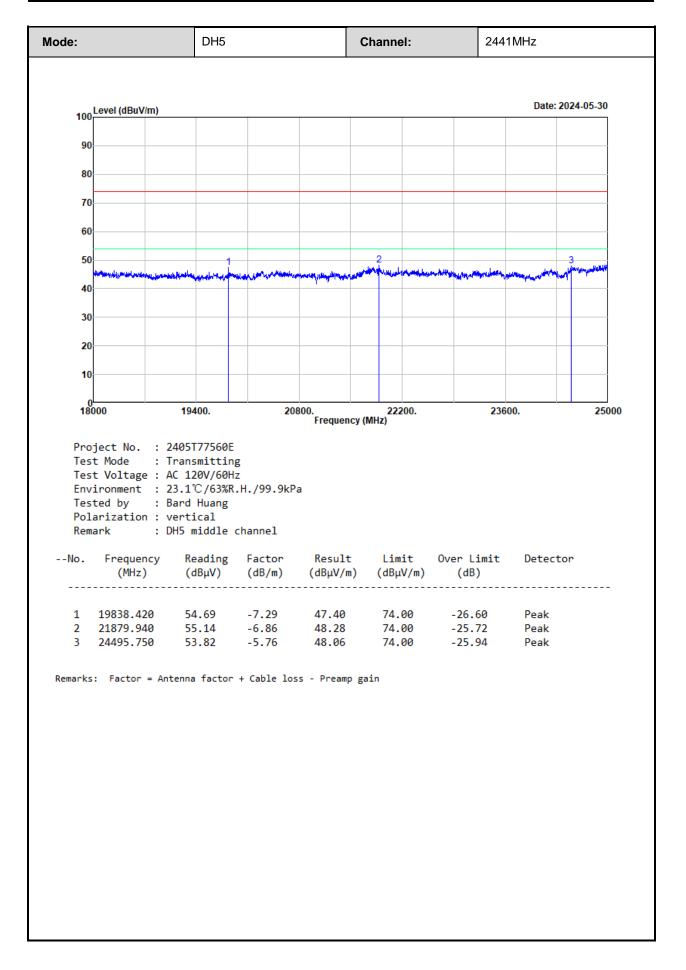












3.5 RF Conducted Test Data

Test Date:	2024-06-07	Test By:	Ryan Zhang
Environment condition:	Temperature: 23.6°C; Relative	Humidity:65%; ATM Pi	essure: 99.9kPa

3.5.1 20 dB Emission Bandwidth and 99% Occupied Bandwidth

Test Mode	Channel[MHz]	20dB BW [MHz]	99% OBW[MHz]
	2402	0.804	0.756
GFSK	2441	0.808	0.756
	2480	0.808	0.756
	2402	1.308	1.176
π/4 DQPSK	2441	1.288	1.176
	2480	1.308	1.176
	2402	1.292	1.184
8DPSK	2441	1.296	1.180
	2480	1.288	1.184

3.5.2 Maximum Conducted Peak Output Power

Test Mode	Channel[MHz]	Result[dBm]	Limit[dBm]	Verdict
	2402	4.18	21	Pass
GFSK	2441	4.12	21	Pass
	2480	3.88	21	Pass
	2402	6.37	21	Pass
π/4 DQPSK	2441	6.29	21	Pass
	2480	6.26	21	Pass
	2402	6.71	21	Pass
8DPSK	2441	6.66	21	Pass
	2480	6.62	21	Pass

3.5.3 Channel separation

Test Mode	Channel[MHz]	Result[MHz]	Limit[MHz]	Verdict
GFSK	2402	1.008	0.536	Pass
	2441	1.002	0.539	Pass
	2480	1.002	0.539	Pass
π/4 DQPSK	2402	1.002	0.872	Pass
	2441	1.002	0.859	Pass
	2480	1.002	0.872	Pass
8DPSK	2402	0.990	0.861	Pass
	2441	1.008	0.864	Pass
	2480	0.996	0.859	Pass

Note: Limit <2/3*20dB BW

3.5.4 Number of hopping Frequency

Test Mode	Frequency Range [MHz]	Number of hopping Frequency	Limit	Verdict
GFSK	2400-2483.5	79	≥15	Pass
π/4 DQPSK	2400-2483.5	79	≥15	Pass
8DPSK	2400-2483.5	79	≥15	Pass

3.5.5 Time of occupancy (dwell time)

Test Mode	Packet Type	Channel[MHz]	Pulse Time [ms]	Result[s]	Limit[s]	Verdict
GFSK	DH1	2441	0.400	0.128	0.400	Pass
	DH3	2441	1.679	0.269	0.400	Pass
	DH5	2441	2.936	0.313	0.400	Pass
π/4 DQPSK	2DH1	2441	0.408	0.131	0.400	Pass
	2DH3	2441	1.692	0.271	0.400	Pass
	2DH5	2441	2.959	0.316	0.400	Pass
8DPSK	3DH1	2441	0.408	0.131	0.400	Pass
	3DH3	2441	1.666	0.267	0.400	Pass
	3DH5	2441	2.926	0.312	0.400	Pass

Note:

DH1: Dwell time=Pulse time (ms) *(1600/2/79)*31.6s DH3: Dwell time=Pulse time (ms) *(1600/4/79)*31.6s DH5: Dwell time=Pulse time (ms) *(1600/6/79)*31.6s

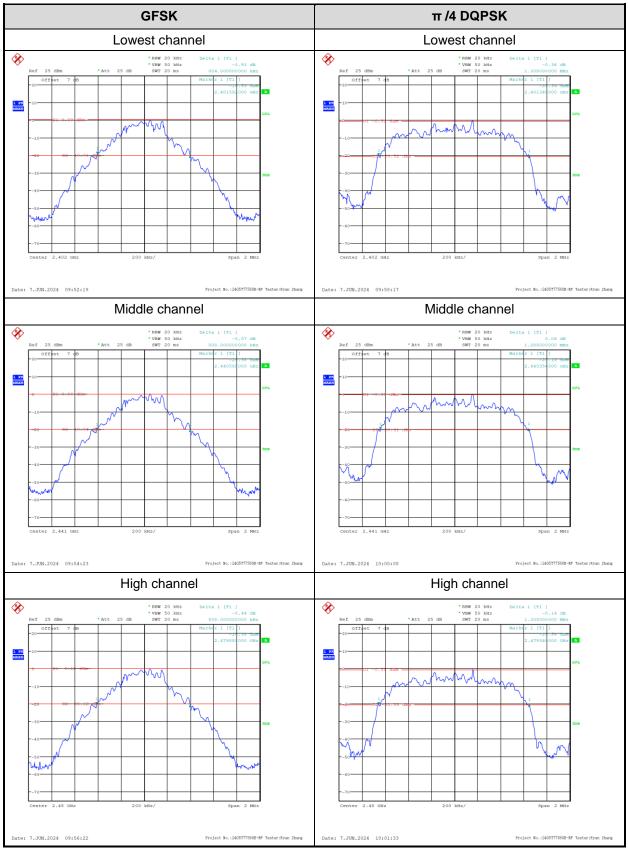
3.5.6 100 kHz Bandwidth of Frequency Band Edge

Test Mode	Channel[MHz]	Result	Limit	Verdict
GFSK	2402	Refer test plot	Refer test plot	Pass
	2480	Refer test plot	Refer test plot	Pass
π/4 DQPSK	2402	Refer test plot	Refer test plot	Pass
	2480	Refer test plot	Refer test plot	Pass
8DPSK	2402	Refer test plot	Refer test plot	Pass
	2480	Refer test plot	Refer test plot	Pass

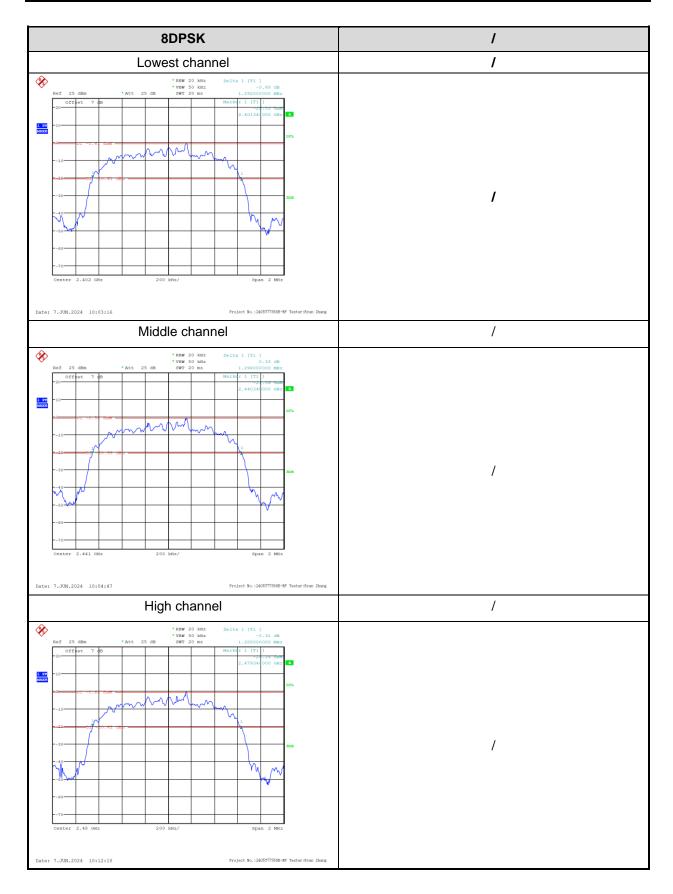


Test Plots:

20 dB Emission Bandwidth:

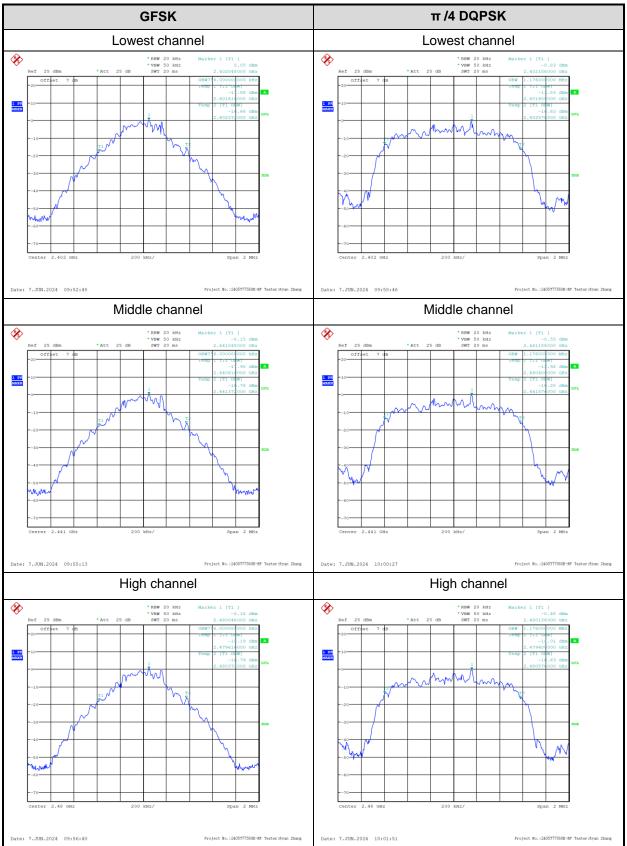




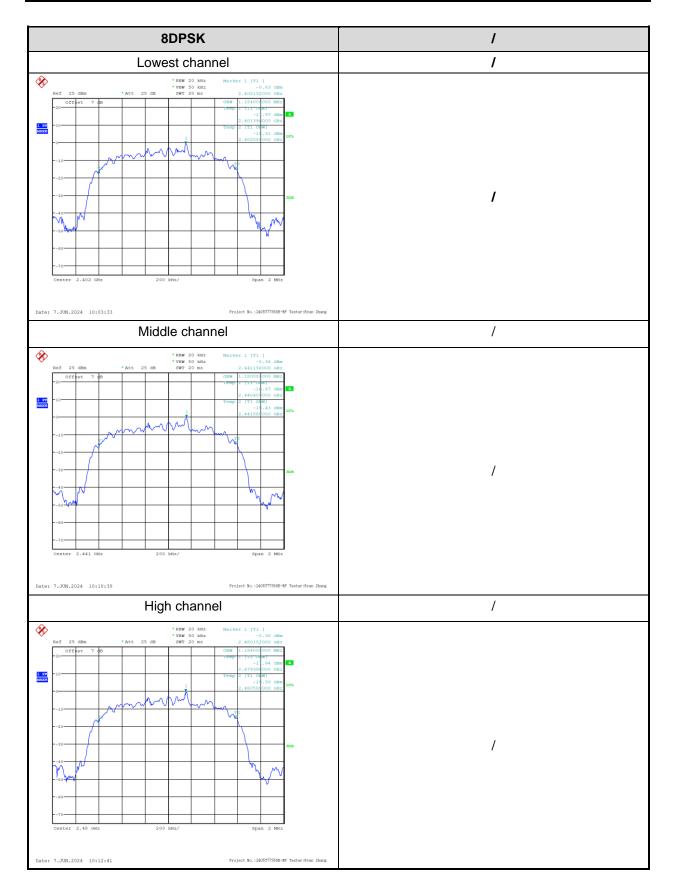




99% Occupied Bandwidth:

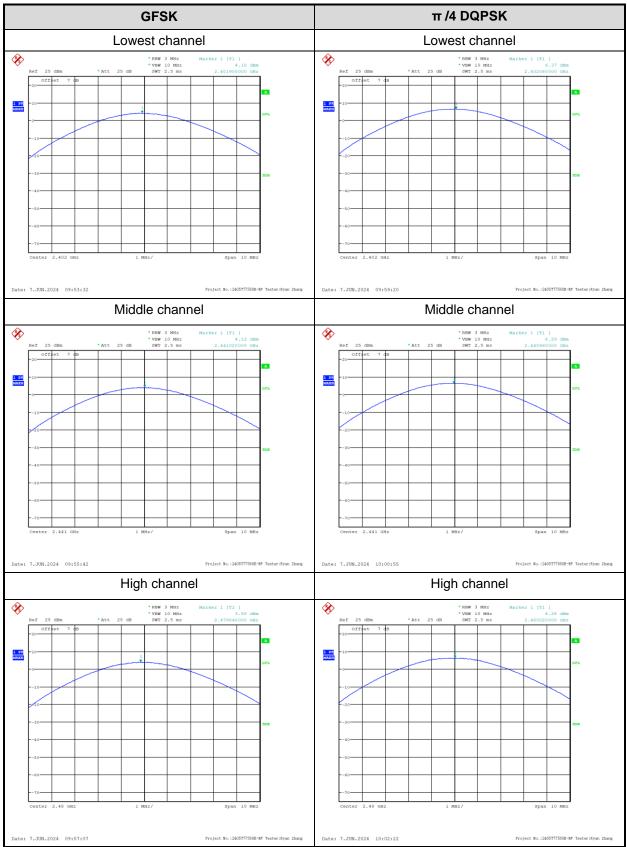




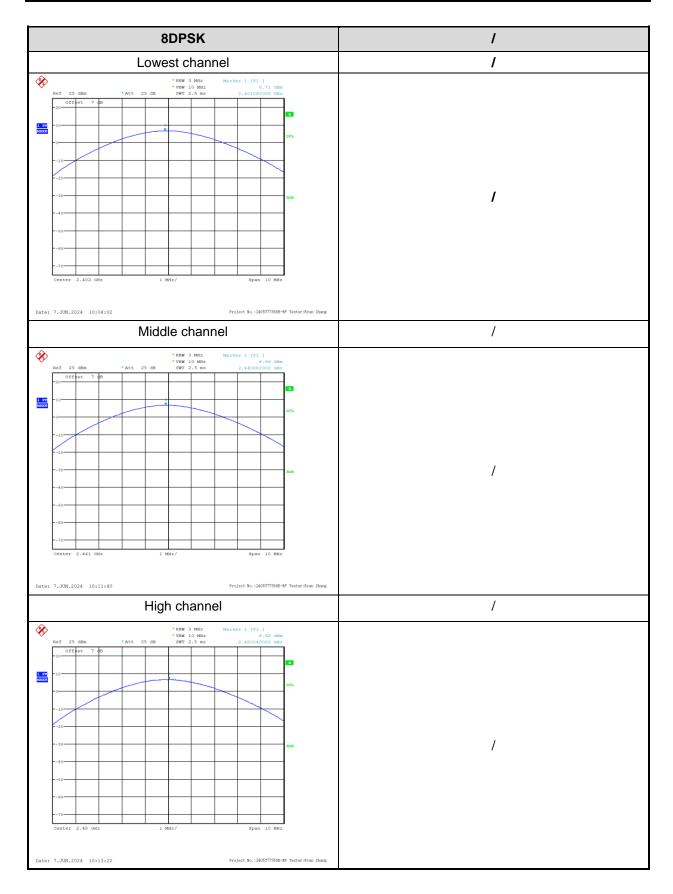




Maximum Conducted Peak Output Power:

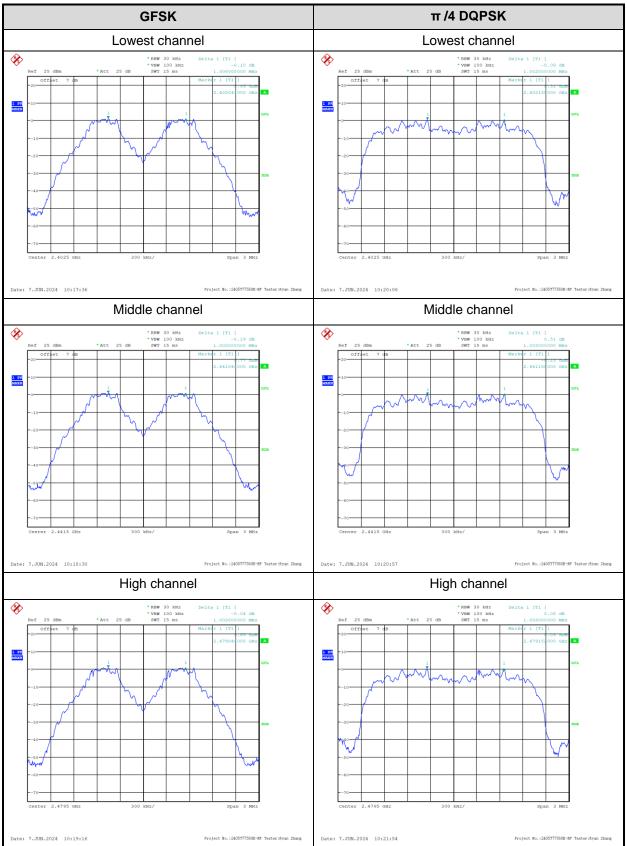




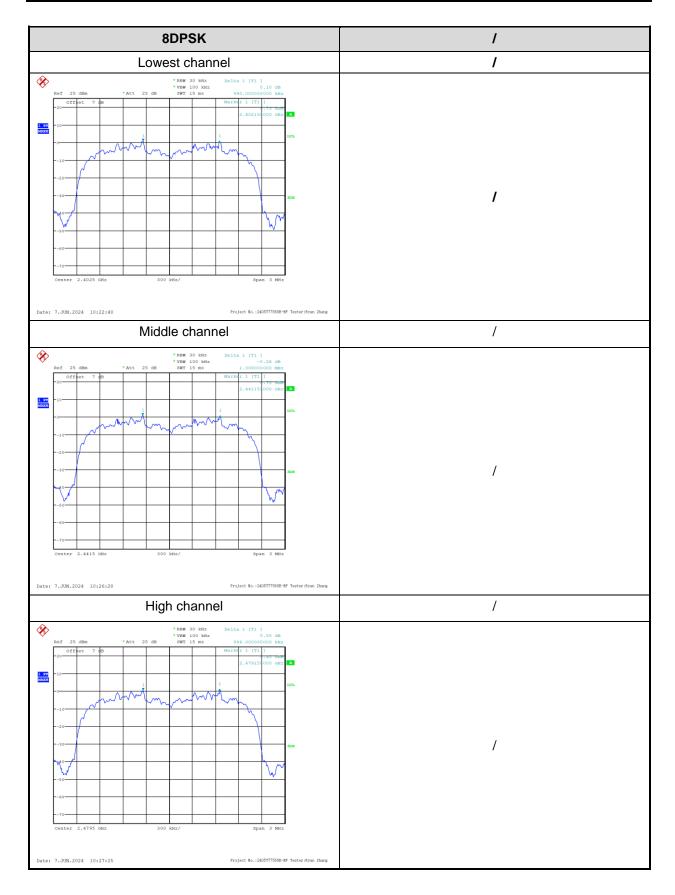




Channel separation:

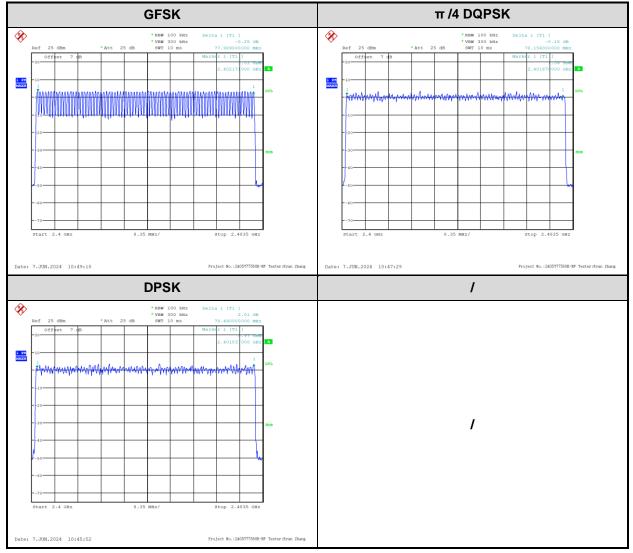






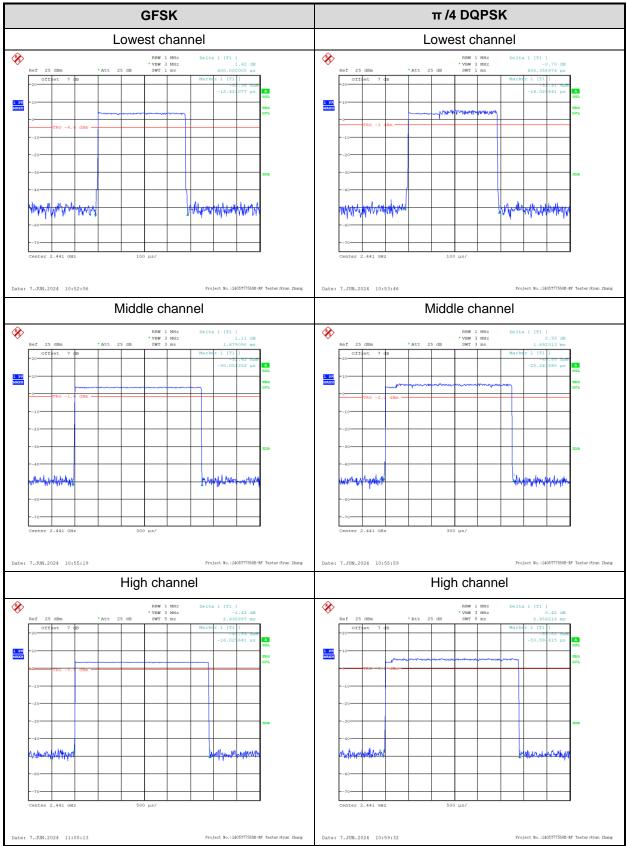


Number of hopping Frequency

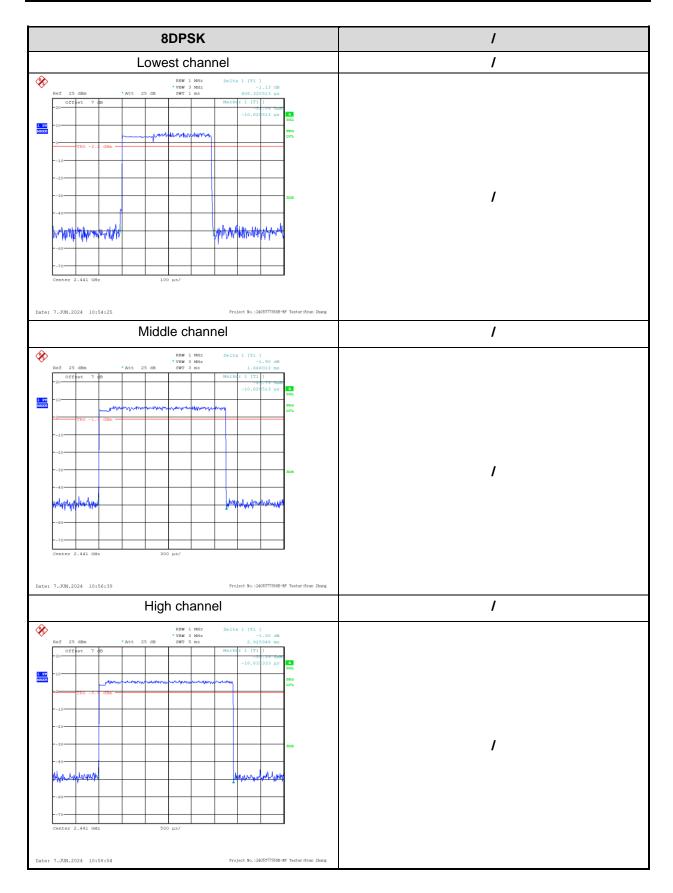




Time of occupancy (dwell time)

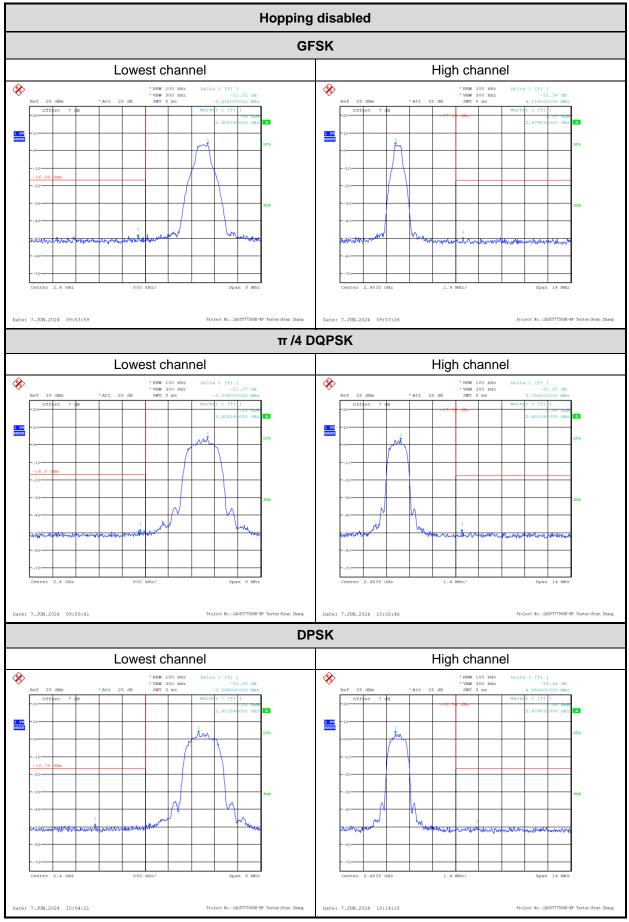




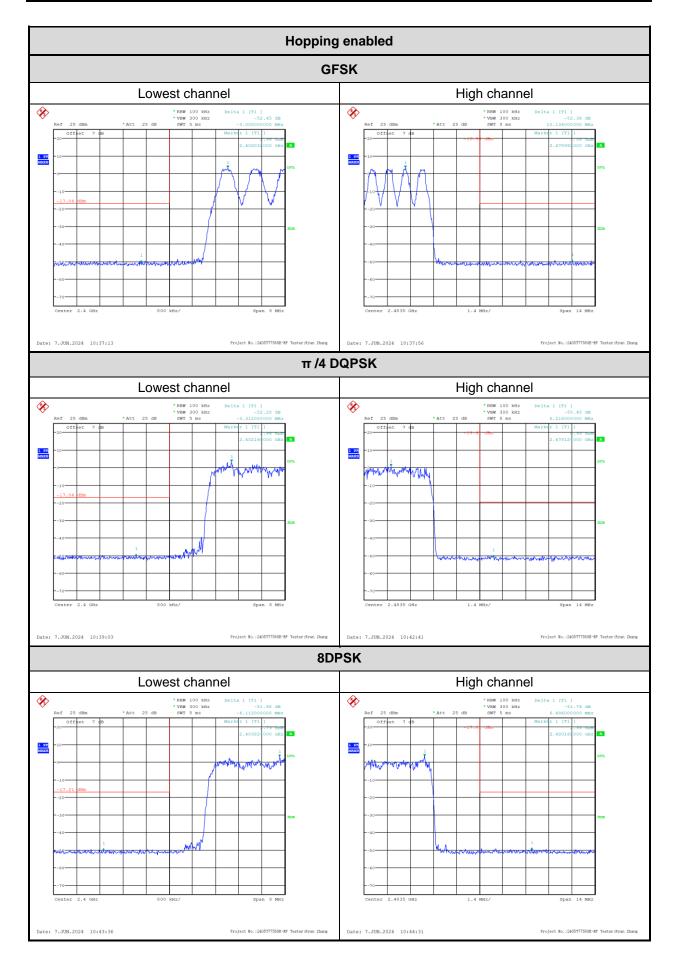




100kHz Bandwidth of Frequency Band Edge:







4 Test Setup Photo

Please refer to the attachment 2405T77560E Test Setup photo.

5 E.U.T Photo

Please refer to the attachment 2405T77560E External photo and 2405T77560E Internal photo.

---End of Report---