Test Report

Applicant	:	Labpano Technology (Changzhou) Co., Ltd.
Address	:	Building 4D, No.160 Xihu West Road, Wujin National Hi-tech Industrial Zone, Changzhou, Jiangsu, China.
Product Name	:	PanoX V3
Brand Mark	:	PanoX
Model	:	PIP225
Extension model	:	PIP225+
FCC ID	:	2ARZ2-PIP225
Report Number	:	BLA-EMC-202407-A10404
Date of Receipt	:	2024.07.25
Date of Test	:	2024.07.25 to 2024.08.14
Test Standard	:	47 CFR Part 15, Subpart C 15.247
Test Result	:	Pass

Compiled by: Hugh **Review by:** Sweet **Approved by:** Blue Zheng

Issued Date: 2024. 08.14

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

Address: Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China

BlueAsia of Technical Services(Shenzhen) Co., Ltd. BLA

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Revise Record

Version No.	Date	Description
01	2024.08.14	Original

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1 General information

1.1 General information

Applicant	Labpano Technology (Changzhou) Co., Ltd.
Address	Building 4D, No.160 Xihu West Road, Wujin National Hi-tech Industrial Zone, Changzhou, Jiangsu, China.
Manufacturer	Labpano Technology (Changzhou) Co., Ltd.
Address	Building 4D, No.160 Xihu West Road, Wujin National Hi-tech Industrial Zone, Changzhou, Jiangsu, China.
Factory	Labpano Technology (Changzhou) Co., Ltd.
Address	Building 4D, No.160 Xihu West Road, Wujin National Hi-tech Industrial Zone, Changzhou, Jiangsu, China.

1.2 General description of EUT

Product name	PanoX V3
Model no.	PIP225
Series model	PIP225+
Note	PIP225 and PiP225+ have the same circuit design, layout, used components and internal wiring, only the model and color are different because of the different sales channels
Operation Frequency:	802.11b/g/n(HT20): 2412MHz to 2462MHz 802.11n(HT40): 2422MHz to 2452MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Channel Spacing:	5MHz
Number of Channels:	802.11b/g/n(HT20): 11 802.11n(HT40):7
Antenna Type:	Internal antenna
Antenna Gain:	Ant1: 0.52 dBi, Ant2: 0.52 dBi (Provided by customer)
Power supply or adapter information	DC3.85V
Hardware Version	FM05_MB_PCB_V1.0
Software Version	Pano2_QCS605_P225_Develop-#23-beta
Engineer sample no	BLA-EMC-202407-A104
Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.	

2 Test summary

No.	Test item	Result	Remark
1	Antenna Requirement	Pass	
2	Conducted Emissions at AC Power Line (150kHz-30MHz)	Pass	
3	Conducted Peak Output Power	Pass	
4	Minimum 6dB Bandwidth	Pass	
5	Power Spectrum Density	Pass	
6	Conducted Band Edges Measurement	Pass	
7	Conducted Spurious Emissions	Pass	
8	Radiated Spurious Emissions	Pass	
9	Radiated Emissions which fall in the restricted bands	Pass	

N/A: Not Applicable

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3 Test Configuration

3.1 Test mode

Test Mode Note 1	Description
TX	Keep the EUT in continuously transmitting mode with modulation.
RX	Keep the EUT in receiving mode
TX Low channel	Keep the EUT in continuously transmitting mode in low channel
TX middle channel	Keep the EUT in continuously transmitting mode in middle channel
TX high channel	Keep the EUT in continuously transmitting mode in high channel

Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use.

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3.2 Operation Frequency each of channel

Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	5	2432MHz	9	2452MHz	--	--
2	2417MHz	6	2437MHz	10	2457MHz	--	--
3	2422MHz	7	2442MHz	11	2462MHz	--	--
4	2427MHz	8	2447MHz	--	--	--	--

Operation Frequency each of channel(802.11n HT40)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
3	2422MHz	7	2442MHz	--	--	--	--
4	2427MHz	8	2447MHz	--	--	--	--
5	2432MHz	9	2452MHz	--	--	--	--
6	2437MHz	--	--	--	--	--	--

3.3 Test channel

For 802.11b/g/n (HT20), the lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 1 (2412MHz), 6 (2437MHz) and 11 (2462MHz); 802.11n HT40, the lowest, middle, highest channel numbers of the EUT used and tested in this report are separately 3 (2422MHz), 6 (2437MHz) and 9 (2452MHz).

3.4 Auxiliary equipment

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	Lenovo	E460C	N/A	From lab (No.BLA-ZC-BS-2022005)
Note: "--" mean no any auxiliary device during testing.				

3.5 Test environment

Environment	Temperature	Voltage
Normal	25°C	DC 3.85V

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4 Laboratory information

4.1 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia of Technical Services(Shenzhen) Co., Ltd.
Address:	Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

Parameter	Expanded Uncertainty
Radiated Emission(9kHz-30MHz)	±4.34dB
Radiated Emission(30Mz-1000MHz)	±4.24dB
Radiated Emission(1GHz-18GHz)	±4.68dB
AC Power Line Conducted Emission(150kHz-30MHz)	±3.45dB
Occupied Channel Bandwidth	±5 %
RF output power, conducted	±1.5 dB
Power Spectral Density, conducted	±3.0 dB
Unwanted Emissions, conducted	±3.0 dB
Temperature	±3 °C
Supply voltages	±3 %
Time	±5 %

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5 Test equipment

Equipment No.	Equipment Name	Model No.	Manufacture	S/N	Cal. Date	Next Cal. Date
BLA-EMC-008	Spectrum	FSP40	R&S	100817	2023/08/30	2024/08/29
BLA-EMC-009	EMI Receiver	ESR7	R&S	101199	2023/08/30	2024/08/29
BLA-EMC-012	broad band Antenna	VULB9168	Schwarz beck	00836 P:00227	2022/10/12	2025/10/11
BLA-EMC-013	Horn Antenna	BBHA9120D	Schwarz beck	01892	2022/09/13	2025/09/12
BLA-EMC-014	Amplifier	PA_000318G-45	SKET	PA2018043003	2023/08/30	2024/08/29
BLA-EMC-016	Signal Generator	N5182A	Agilent	MY52420567	2023/11/16	2024/11/15
BLA-EMC-028	Spectrum	N9020A	Agilent	MY53420839	2023/11/16	2024/11/15
BLA-EMC-038	Spectrum	N9020A	Agilent	MY49100060	2023/08/30	2024/08/29
BLA-EMC-042	Power sensor	RPR3006W	DARE	14I00889SN042	2023/09/01	2024/08/31
BLA-EMC-043	Loop antenna	FMZB1519B	SCHNARZBECK	00102	2022/09/14	2025/09/13
BLA-EMC-044	Wideband radio communication tester	CMW500	R&S	132429	2023/08/30	2024/08/29
BLA-EMC-046	Filter bank	2.4G/5G Filter bank	SKET	N/A	2024/07/07	2025/07/06
BLA-EMC-061	Receiver	ESPI7	R&S	101477	2024/07/07	2025/07/06
BLA-EMC-062	Signal Generator	N5181A	Agilent	MY46240904	2024/07/07	2025/07/06
BLA-EMC-064	Signal Generator	N5182B	KEYSIGHT	MY58108892	2024/07/07	2025/07/06
BLA-EMC-065	broadband Antenna	VULB9168	Schwarz beck	01065P	2022/12/12	2025/12/11
BLA-EMC-066	Amplifier	LNPA_30M01G-30	SKET	SK2021060801	2024/07/07	2025/07/06
BLA-EMC-079	Spectrum	N9020A	Agilent	MY54420161	2023/08/30	2024/08/29
BLA-EMC-080	Signal Generator	N5182A	Agilent	MY47420955	2023/08/30	2024/08/29
BLA-EMC-086	Amplifier	LNPA_18G40G-50dB	SKET	SK2022071301	2023/08/14	2024/08/13

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6 Test result

6.1 Antenna requirement

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	N/A

6.1.1 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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of a so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT antenna:
The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Ant1: 0.52, Ant2: 0.52 dBi.

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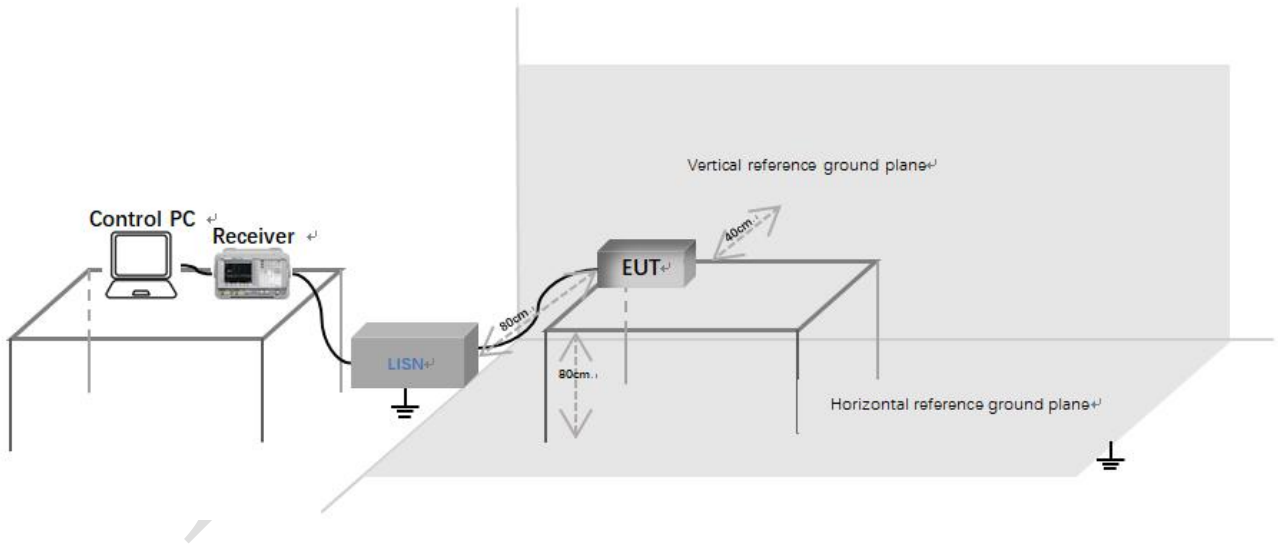
6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.2.1 Limit

Frequency of emission(MHz)	**Conducted limit(dBμV)**	
	Quasi-peak	**Average**
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50
*Decreases with the logarithm of the frequency.		

6.2.2 Test setup



Description of test setup connection:

a) *Connect the control PC to the receiver through a USB to GPIB cable;*

b) *The receiver is connected to the LISN through a coaxial line;*

c) *Connect the power port of LISN to the EUT.*

6.2.3 Procedure

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) 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.

LISN=Read Level+ Cable Loss+ LISN Factor

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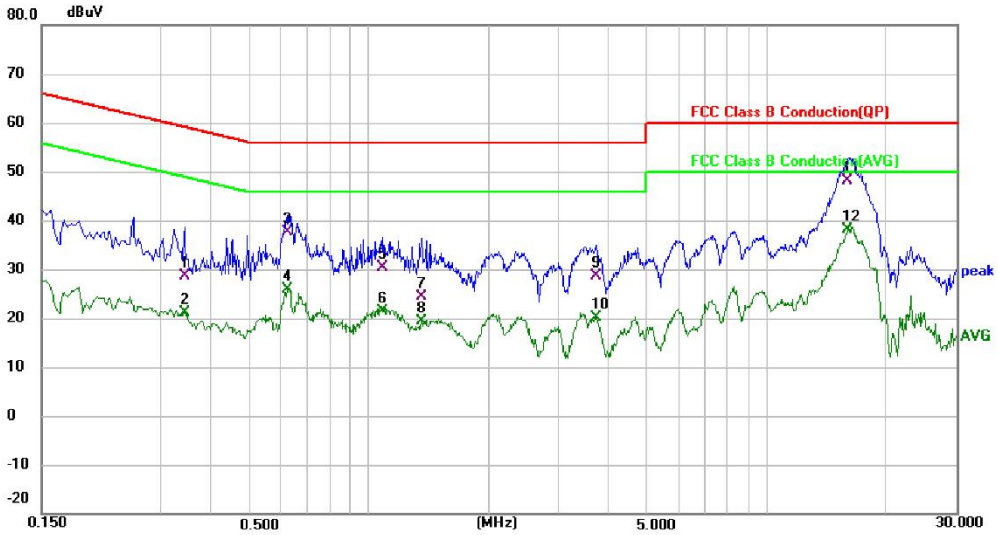
6.2.4 Test data

[TestMode: TM1]; [Line: Line];[Voltage:120V/60Hz]

Conducted Emission Measurement

Project No.: CE Data :#10 2024/7/27



Site		Phase:	L1	Temperature:	(C)
Limit:	FCC Class B Conduction(QP)	Power:		Humidity:	%RH
EUT:	PanoX V3	Distance:	RBW: 9 KHz		
M/N:	PIP225		VBW: 30 KHz	Sweep Time: 10 ms	
Mode:	2.4GWIFI TX				
Note:					

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		0.3420	18.78	9.94	28.72	59.15	-30.43	QP			
2		0.3420	11.24	9.94	21.18	49.15	-27.97	AVG			
3		0.6220	27.66	9.95	37.61	56.00	-18.39	QP			
4		0.6220	15.99	9.95	25.94	46.00	-20.06	AVG			
5		1.0859	20.48	9.82	30.30	56.00	-25.70	QP			
6		1.0859	11.46	9.82	21.28	46.00	-24.72	AVG			
7		1.3580	14.51	9.92	24.43	56.00	-31.57	QP			
8		1.3580	9.34	9.92	19.26	46.00	-26.74	AVG			
9		3.7380	18.67	9.98	28.65	56.00	-27.35	QP			
10		3.7380	10.25	9.98	20.23	46.00	-25.77	AVG			
11		16.1299	34.65	13.48	48.13	60.00	-11.87	QP			
12	*	16.1299	24.67	13.48	38.15	50.00	-11.85	AVG			

*:Maximum data x:Over limit !:over margin 〈Reference Only

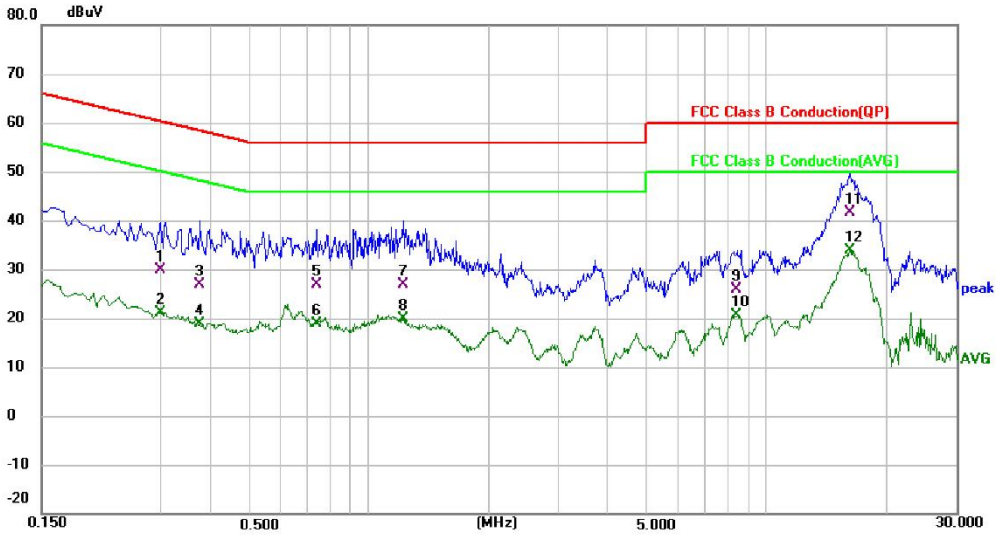
Receiver: ESPI_1 Spectrum Analyzer: ESPI

Test Result: Pass

[TestMode: TM1]; [Line: Neutral] ;[Voltage:120V/60Hz]

Conducted Emission Measurement

Project No.: CE Data :#9 2024/7/27



Site		Phase:	N	Temperature:	(C)
Limit:	FCC Class B Conduction(QP)	Power:		Humidity:	%RH
EUT:	PanoX V3	Distance:	RBW: 9 KHz		
M/N:	PIP225		VBW: 30 KHz	Sweep Time: 10 ms	
Mode:	2.4GWIFI TX				
Note:					

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	cm	degree	Comment
1		0.2980	19.81	9.95	29.76	60.30	-30.54	QP			
2		0.2980	11.24	9.95	21.19	50.30	-29.11	AVG			
3		0.3740	17.06	9.81	26.87	58.41	-31.54	QP			
4		0.3740	9.04	9.81	18.85	48.41	-29.56	AVG			
5		0.7380	16.84	9.94	26.78	56.00	-29.22	QP			
6		0.7380	9.05	9.94	18.99	46.00	-27.01	AVG			
7		1.2180	17.01	9.89	26.90	56.00	-29.10	QP			
8		1.2180	10.11	9.89	20.00	46.00	-26.00	AVG			
9		8.4379	14.54	11.22	25.76	60.00	-34.24	QP			
10		8.4379	9.47	11.22	20.69	50.00	-29.31	AVG			
11		16.1980	28.18	13.41	41.59	60.00	-18.41	QP			
12	*	16.1980	20.38	13.41	33.79	50.00	-16.21	AVG			

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: ESPI_1 Spectrum Analyzer: ESPI

Test Result: Pass

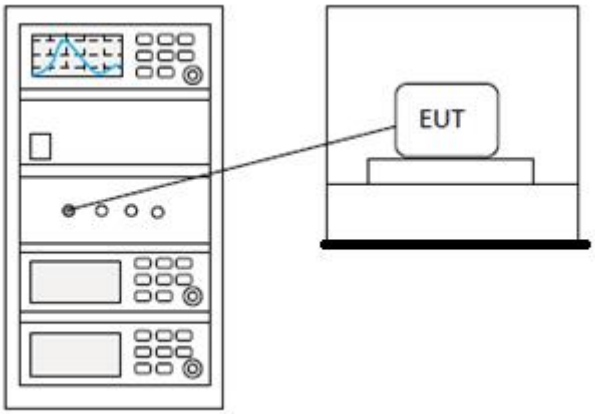
6.3 Conducted Peak output Power

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.3.1 Limit

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥50 hopping channels
	0.25 for 25≤ hopping channels <50
	1 for digital modulation
2400-2483.5	1 for ≥75 non-overlapping hopping channels
	0.125 for all other frequency hopping systems
	1 for digital modulation
5725-5850	1 for frequency hopping systems and digital modulation

6.3.2 Test setup



6.3.3 Test data

Pass: Please refer to appendix A for details

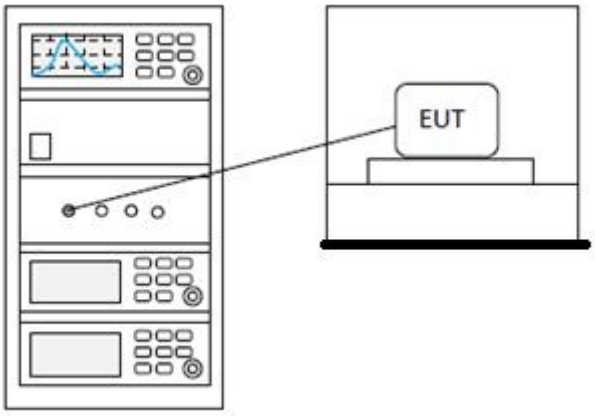
6.4 Minimum 6dB bandwidth

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.8.1
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.4.1 Limit

≥500 kHz

6.4.2 Test setup



6.4.3 Test data

Pass: Please refer to appendix A for details

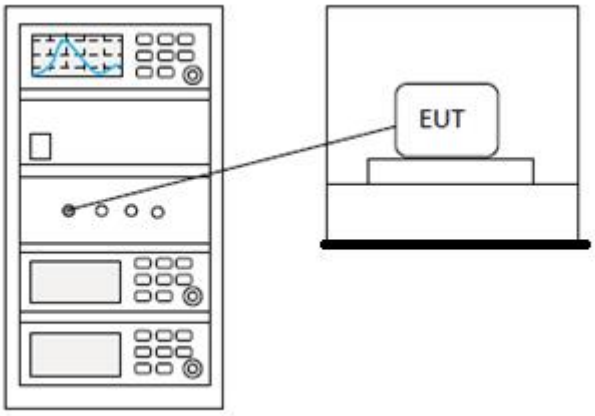
6.5 Power spectrum density

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 11.10.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.5.1 Limit

≤8dBm in any 3 kHz band during any time interval of continuous transmission

6.5.2 Test setup



6.5.3 Test data

Pass: Please refer to appendix A for details

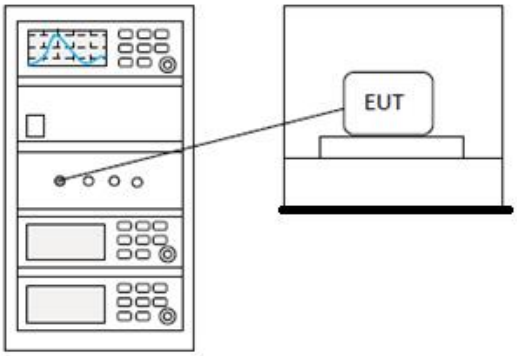
6.6 Conducted Band Edges Measurement

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.6.1 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 20dB.
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)).

6.6.2 Test setup



6.6.3 Test data

Pass: Please refer to appendix A for details

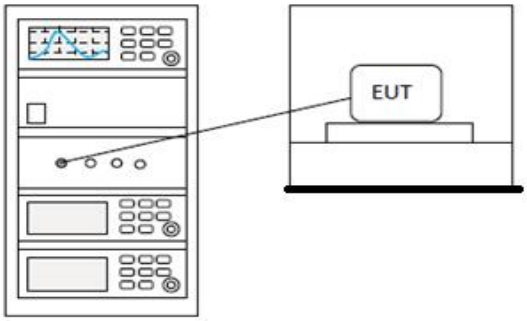
6.7 Conducted spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.6 & Section 11.11
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.7.1 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 20dB.
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)).

6.7.2 Test setup



6.7.3 Test data

Pass: Please refer to appendix A for details

6.8 Radiated spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.8.1 Limit

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

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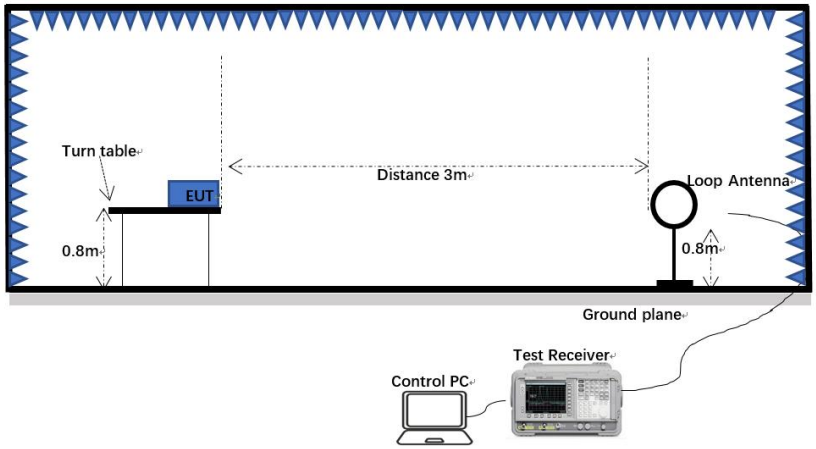
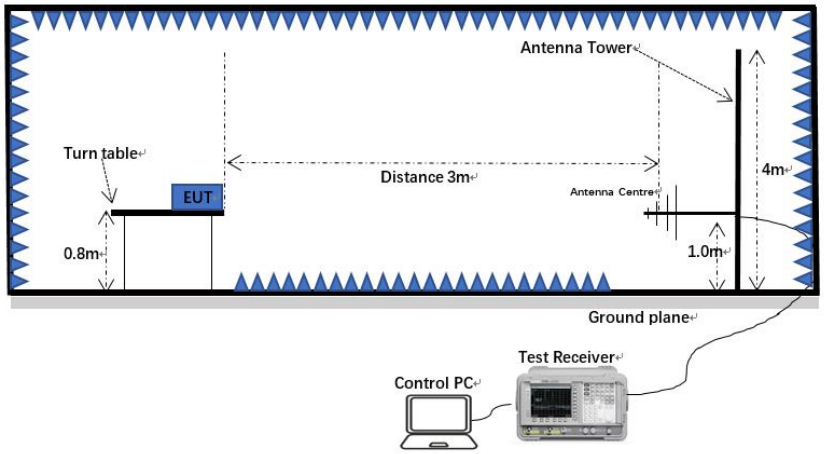
6.8.2 Test setup

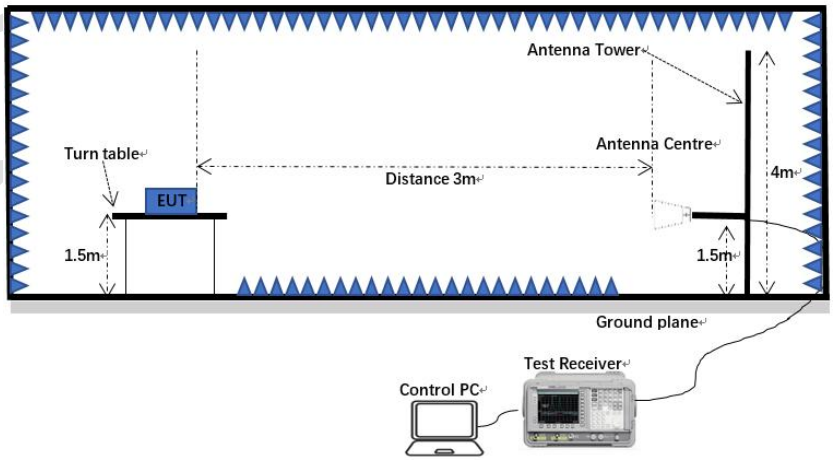
Below 1GHz：



30MHz-1GHz：



Above 1GHz：



6.8.3 Procedure

a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h) Test the EUT in the lowest channel, the middle channel, the highest channel.

i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j) Repeat above procedures until all frequencies measured was complete.

Note 1: Scan from 9 kHz to 25GHz, the disturbance above 12.75GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

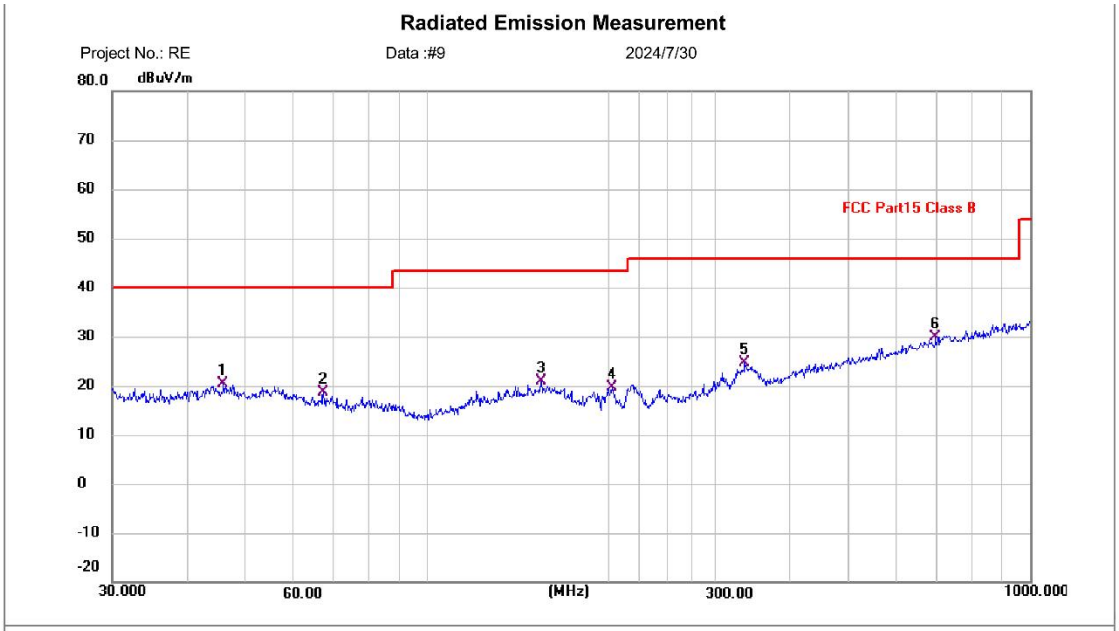
Note 3: The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Level (dBuV) = Reading (dBuV) + Factor (dB/m)

6.8.4 Test data

Below 1GHz

[Test mode: TX]; [Polarity: Horizontal]



Site
Limit: FCC Part15 Class B
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G TX
Note:

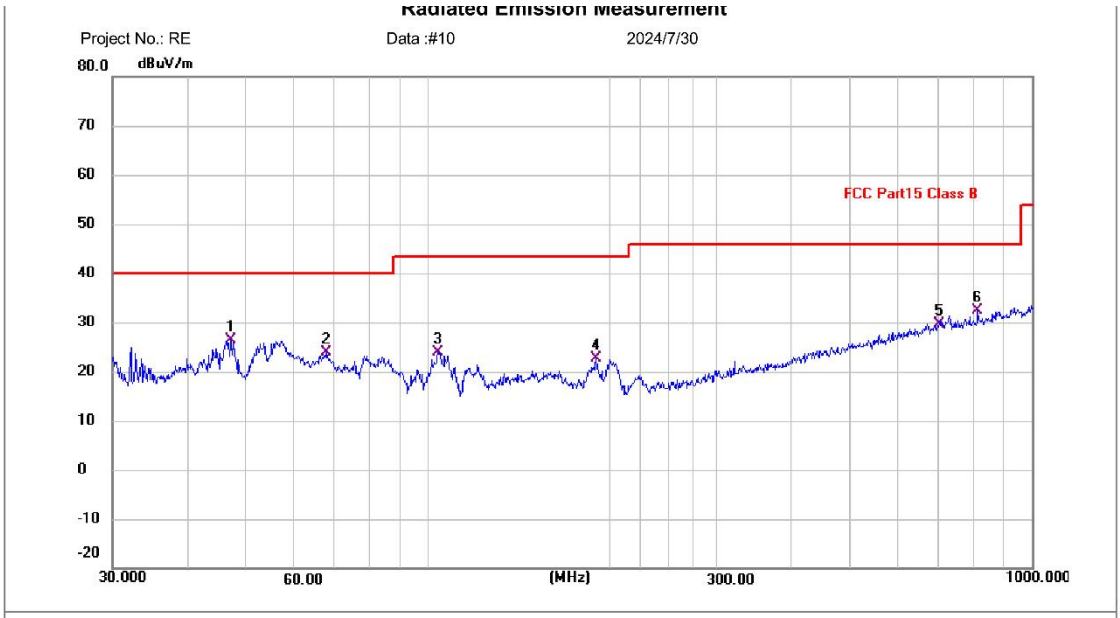
Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	45.8553	0.74	19.61	20.35	40.00	-19.65	QP	P	
2	67.2022	1.16	17.45	18.61	40.00	-21.39	QP	P	
3	154.2786	0.24	20.65	20.89	43.50	-22.61	QP	P	
4	202.1005	3.44	16.19	19.63	43.50	-23.87	QP	P	
5	336.0352	3.07	21.50	24.57	46.00	-21.43	QP	P	
6 *	696.8567	1.52	28.29	29.81	46.00	-16.19	QP	P	

Test Result: Pass

[Test mode: TX]; [Polarity: Vertical]



Site
Limit: FCC Part15 Class B
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G TX
Note:

Polarization: ***Vertical***
Power:

Temperature: (C)
Humidity: %RH

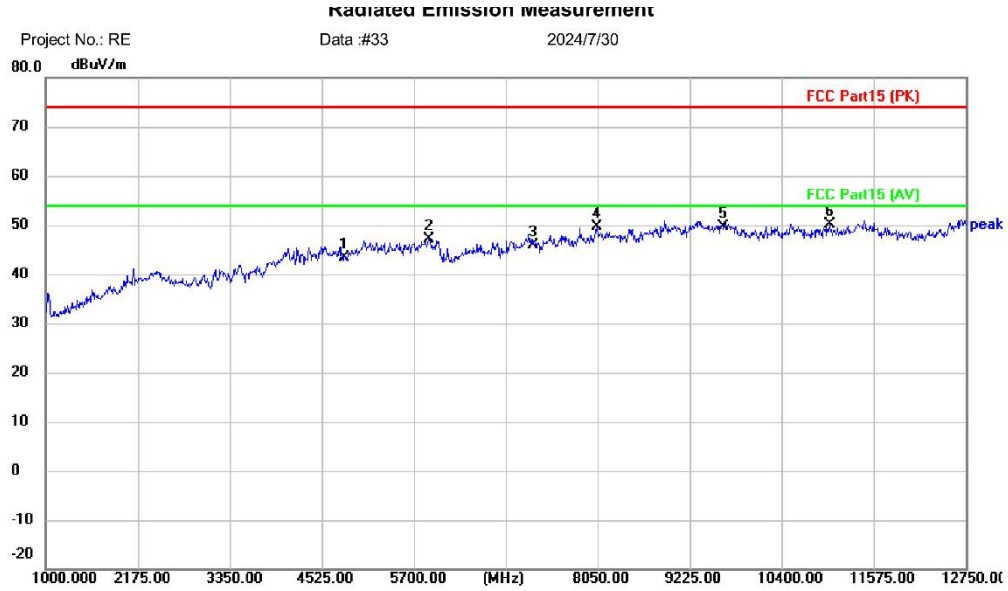
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1 *	47.1599	7.03	19.44	26.47	40.00	-13.53	QP	P	
2	67.9129	6.46	17.37	23.83	40.00	-16.17	QP	P	
3	103.8055	7.55	16.31	23.86	43.50	-19.64	QP	P	
4	189.7385	5.25	17.26	22.51	43.50	-20.99	QP	P	
5	701.7610	0.86	28.73	29.59	46.00	-16.41	QP	P	
6	813.1115	2.33	30.03	32.36	46.00	-13.64	QP	P	

Test Result: Pass

Above 1GHz:

Remark: During the test, pre-scan the 802.11b/g/n mode, and found the 802.11b mode which it is worse case.

[Test mode: TX low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G B TX 2412
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

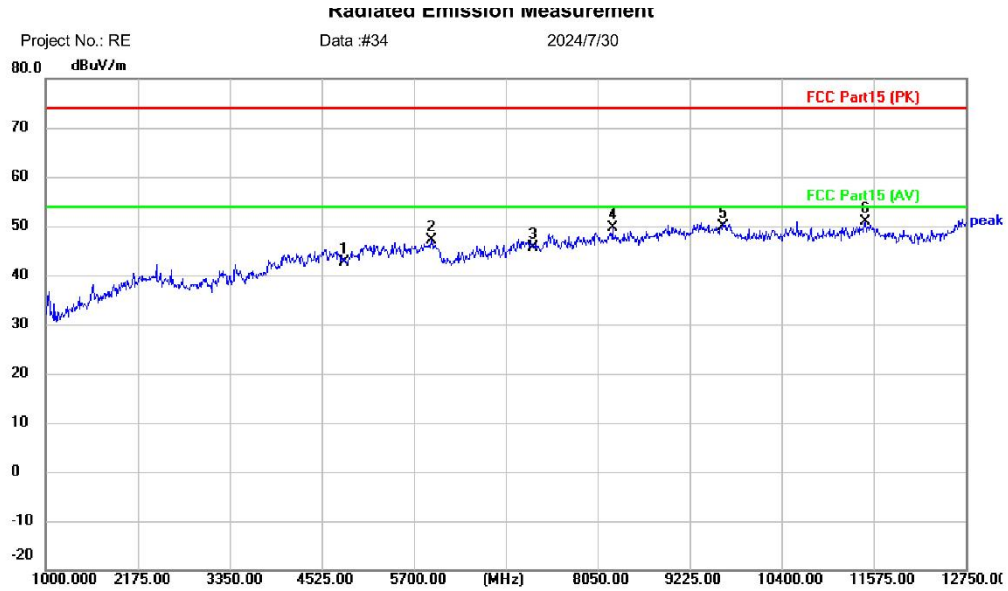
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	37.38	6.00	43.38	74.00	-30.62	peak	
2		5888.000	38.09	9.00	47.09	74.00	-26.91	peak	
3		7236.000	36.44	9.51	45.95	74.00	-28.05	peak	
4		8038.250	38.92	10.65	49.57	74.00	-24.43	peak	
5		9648.000	36.04	13.66	49.70	74.00	-24.30	peak	
6	*	11011.00	36.99	13.19	50.18	74.00	-23.82	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX low channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G B TX 2412
Note:

Polarization: ***Vertical***
Power:

Temperature: (C)
Humidity: %RH

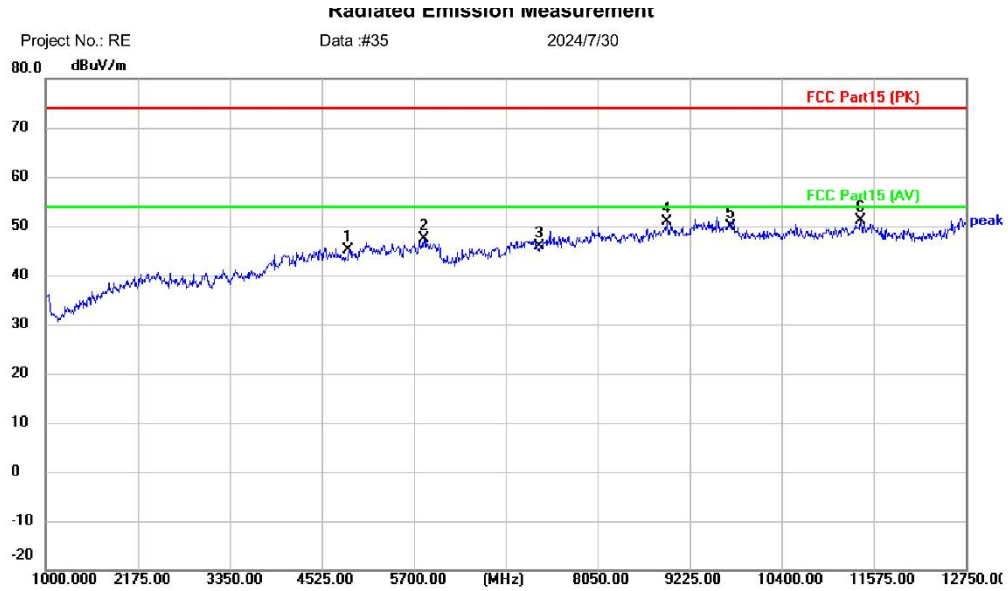
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4824.000	36.66	6.00	42.66	74.00	-31.34	peak	
2		5923.250	38.01	9.03	47.04	74.00	-26.96	peak	
3		7236.000	36.16	9.51	45.67	74.00	-28.33	peak	
4		8238.000	38.99	10.61	49.60	74.00	-24.40	peak	
5		9648.000	36.12	13.66	49.78	74.00	-24.22	peak	
6	*	11469.25	36.85	13.99	50.84	74.00	-23.16	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G B TX 2437
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

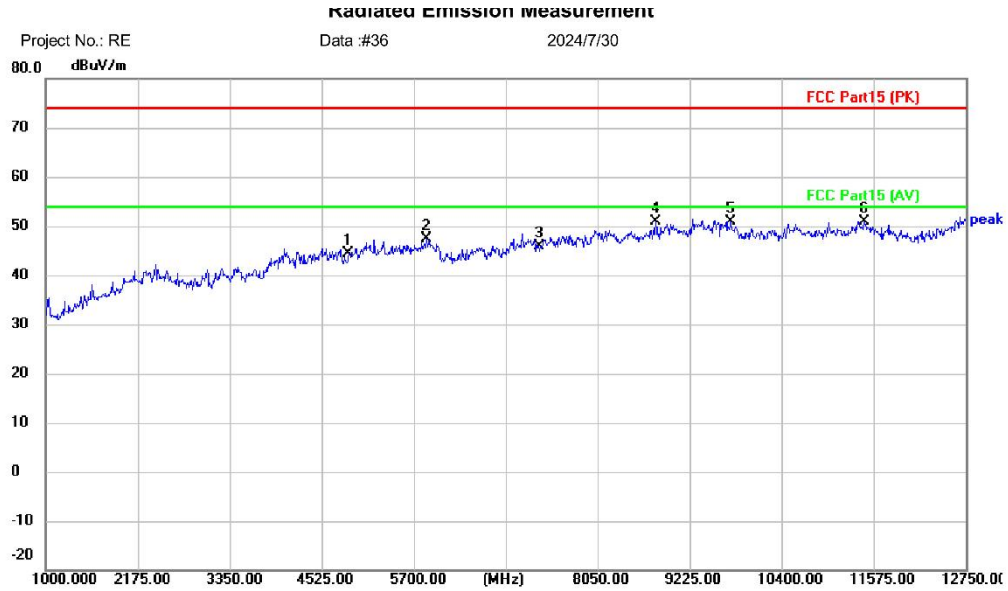
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	39.12	6.06	45.18	74.00	-28.82	peak	
2		5829.250	38.42	8.86	47.28	74.00	-26.72	peak	
3		7311.000	36.77	9.02	45.79	74.00	-28.21	peak	
4		8931.250	38.13	12.83	50.96	74.00	-23.04	peak	
5		9748.000	35.98	13.88	49.86	74.00	-24.14	peak	
6	*	11410.50	37.28	13.75	51.03	74.00	-22.97	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G B TX 2437
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

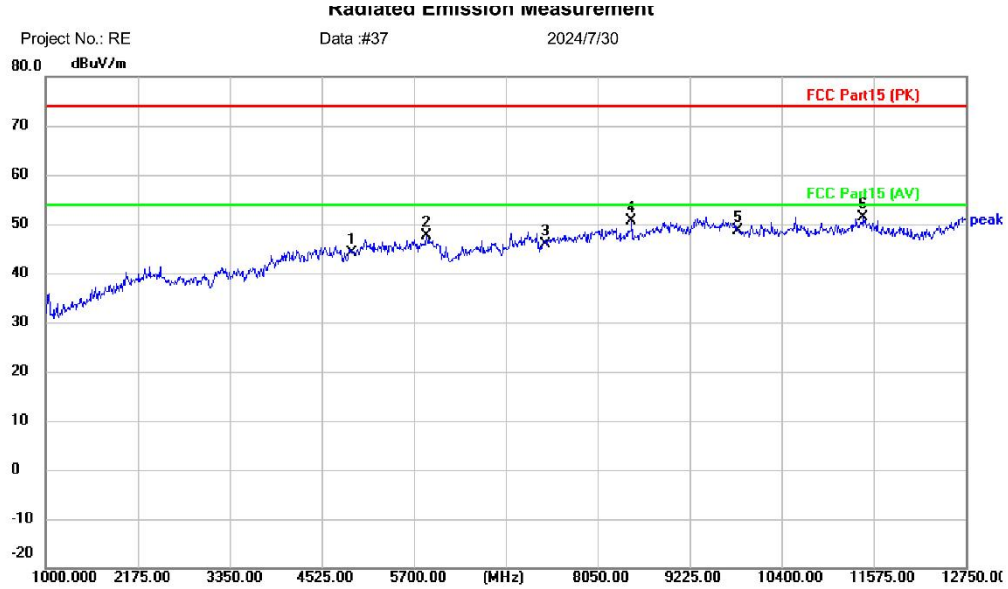
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4874.000	38.23	6.06	44.29	74.00	-29.71	peak	
2		5864.500	38.45	8.88	47.33	74.00	-26.67	peak	
3		7311.000	36.83	9.02	45.85	74.00	-28.15	peak	
4		8790.250	38.23	12.57	50.80	74.00	-23.20	peak	
5	*	9748.000	36.94	13.88	50.82	74.00	-23.18	peak	
6		11457.50	36.84	13.95	50.79	74.00	-23.21	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G B TX 2462
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

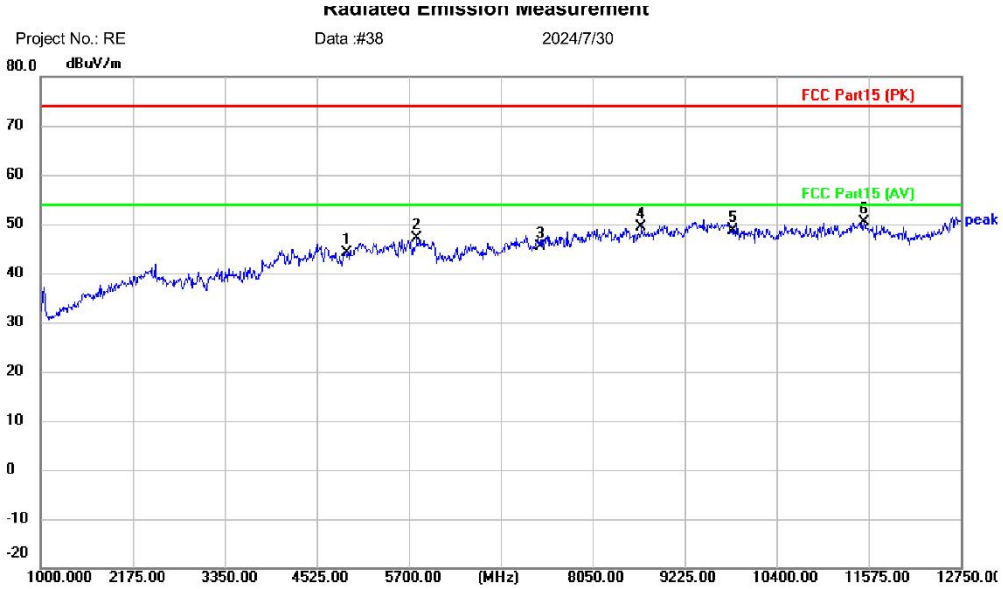
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	37.56	6.54	44.10	74.00	-29.90	peak	
2		5864.500	38.71	8.88	47.59	74.00	-26.41	peak	
3		7386.000	36.42	9.42	45.84	74.00	-28.16	peak	
4		8484.750	39.28	11.23	50.51	74.00	-23.49	peak	
5		9848.000	35.12	13.42	48.54	74.00	-25.46	peak	
6	*	11445.75	37.54	13.90	51.44	74.00	-22.56	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX High channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G B TX 2462
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4924.000	37.56	6.54	44.10	74.00	-29.90	peak	
2		5805.750	38.14	8.92	47.06	74.00	-26.94	peak	
3		7386.000	35.84	9.42	45.26	74.00	-28.74	peak	
4		8672.750	37.34	11.95	49.29	74.00	-24.71	peak	
5		9848.000	35.14	13.42	48.56	74.00	-25.44	peak	
6	*	11516.25	36.21	14.07	50.28	74.00	-23.72	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

6.9 Radiated emissions which fall in the restricted bands

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 6.10.5
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.9.1 Limit

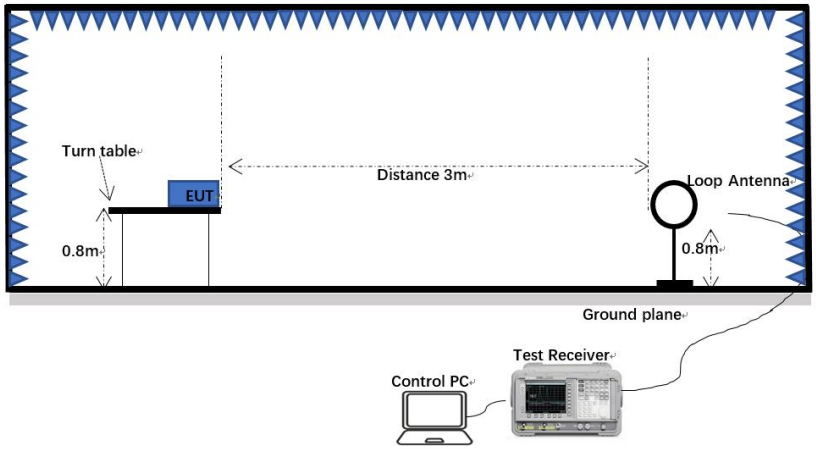
Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

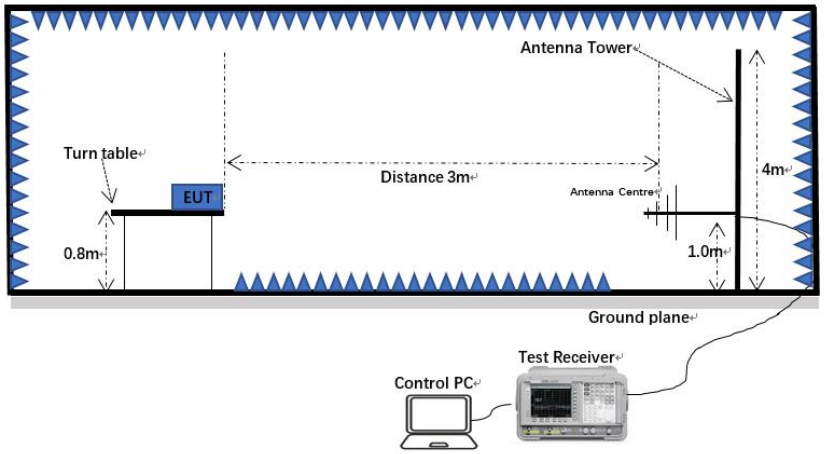
BlueAsia

6.9.2 Test setup

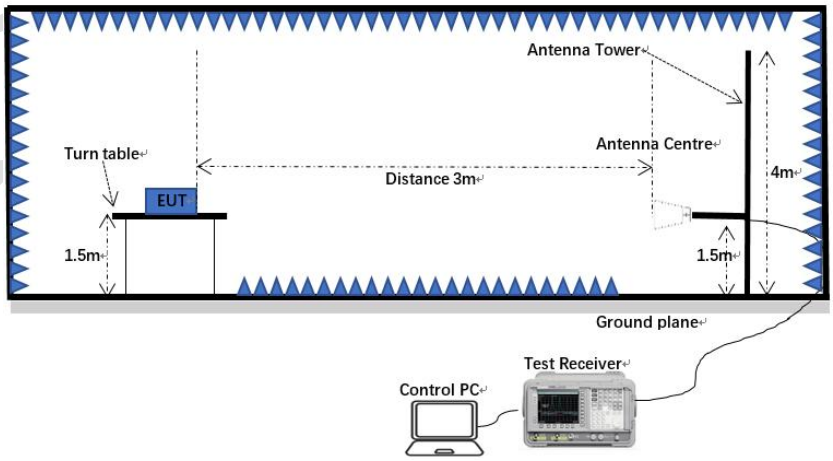
Below 1GHz：



30MHz-1GHz：



Above 1GHz：



6.9.3 Procedure

a) For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

h) Test the EUT in the lowest channel, the middle channel, the highest channel.

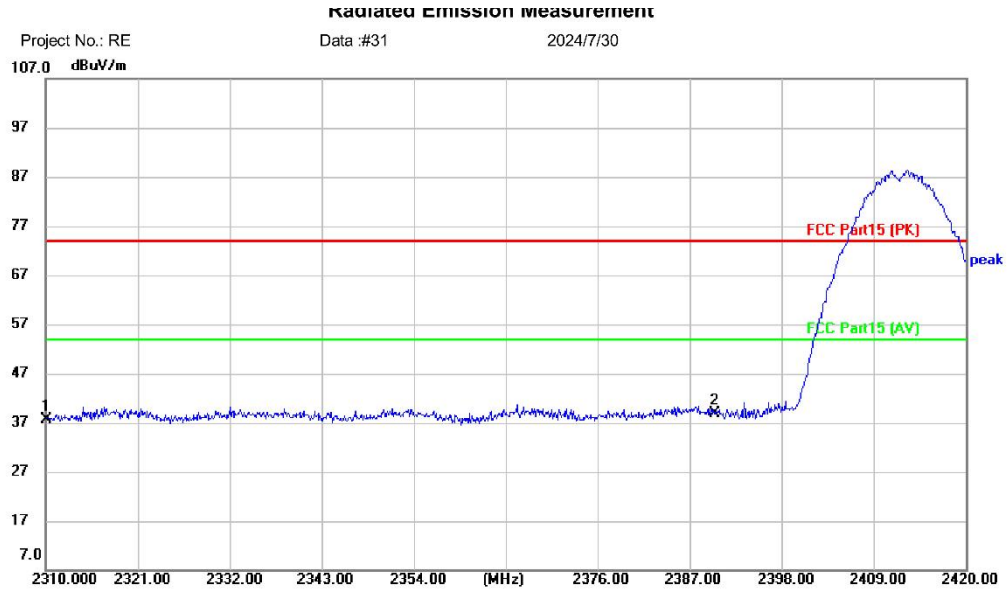
i) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j) Repeat above procedures until all frequencies measured was complete.

Note 1: Level (dBuV) = Reading (dBuV) + Factor (dB/m)
Note 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

6.9.4 Test data

[Test mode: TX B low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G B TX 2412
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

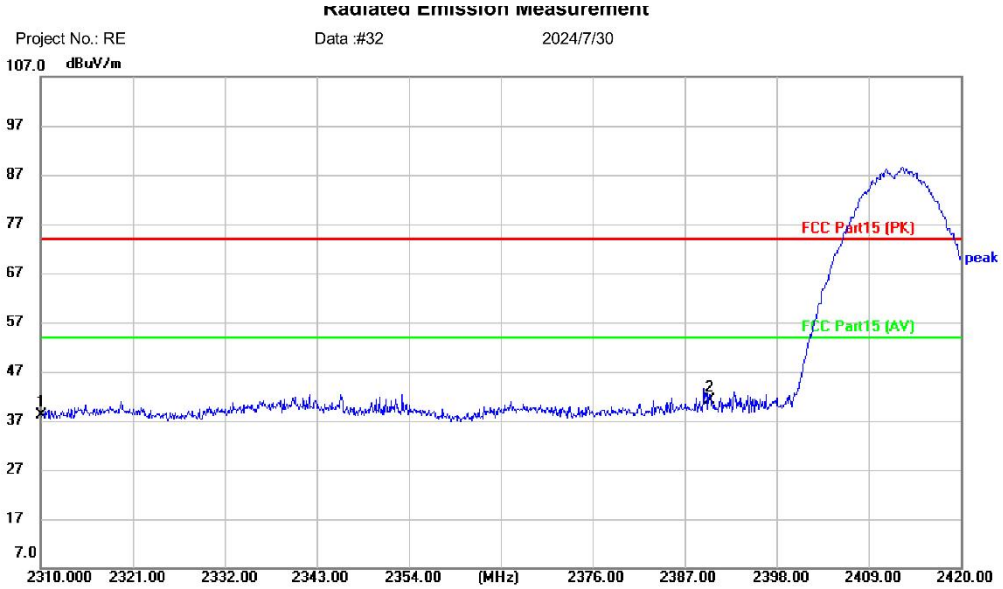
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	40.22	-2.67	37.55	74.00	-36.45	peak	
2	*	2390.000	41.15	-2.24	38.91	74.00	-35.09	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode:TX B low channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G B TX 2412
Note:

Polarization: ***Vertical***
Power:

Temperature: (C)
Humidity: %RH

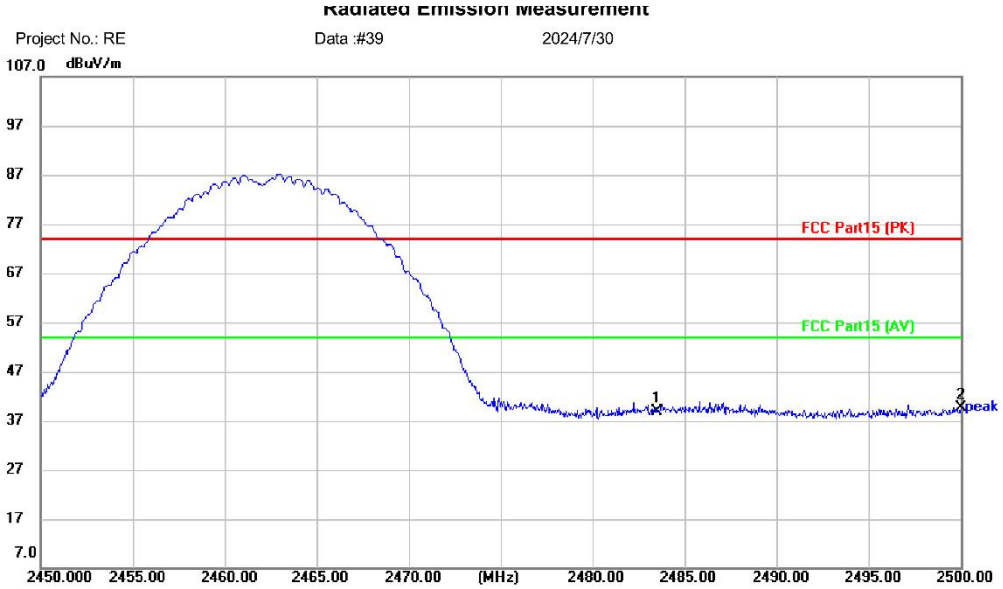
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	40.82	-2.67	38.15	74.00	-35.85	peak	
2	*	2390.000	43.36	-2.24	41.12	74.00	-32.88	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX B High channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G B TX 2462
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

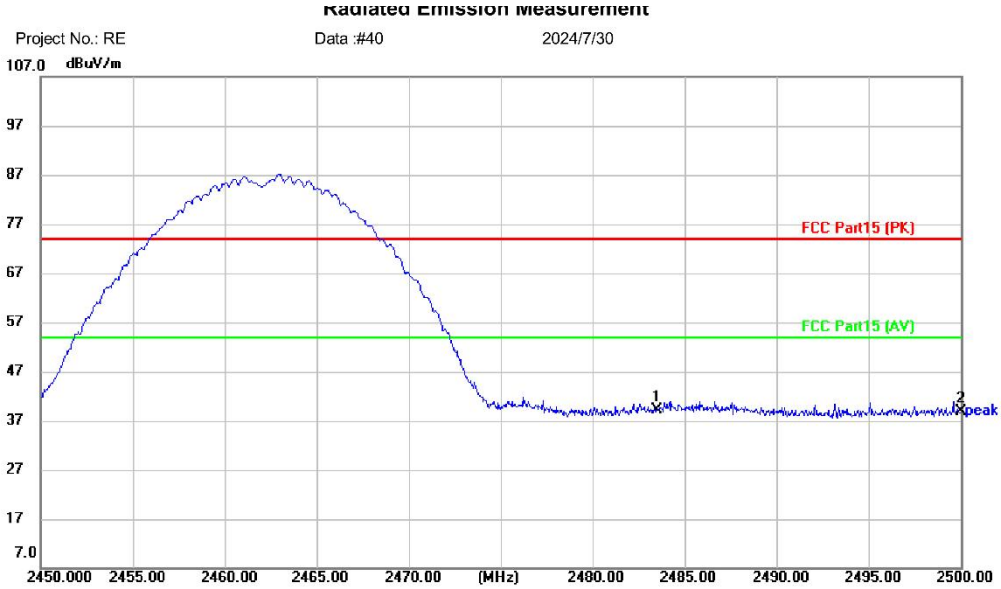
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2483.500	41.69	-2.71	38.98	74.00	-35.02	peak	
2	*	2500.000	42.55	-2.80	39.75	74.00	-34.25	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode:TX B High channel]; [Polarity: Vertical]



Site	Polarization: ***Vertical***	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: PanoX V3		
M/N: PIP225		
Mode: 2.4G B TX 2462		
Note:		

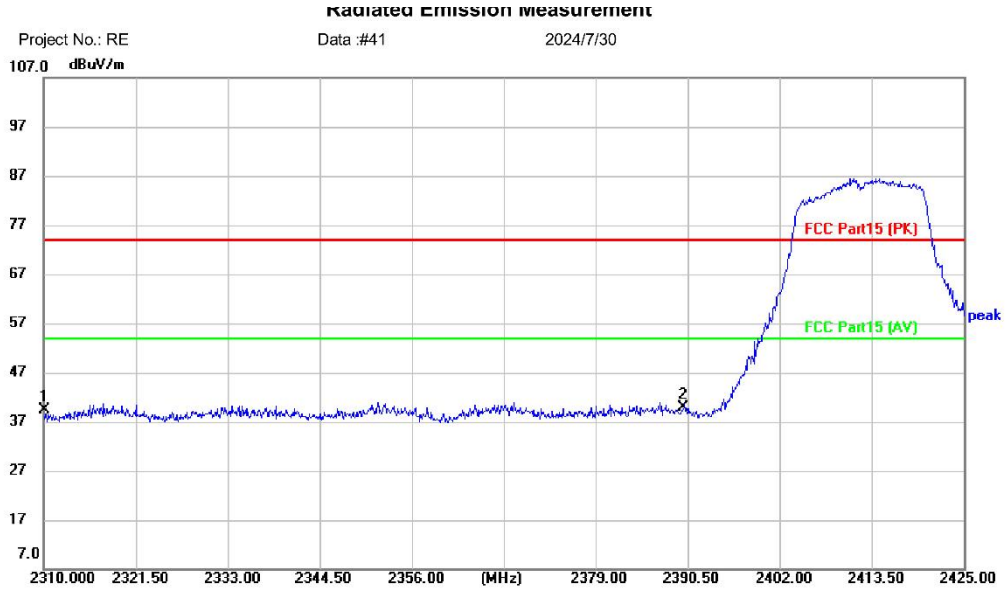
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	41.87	-2.71	39.16	74.00	-34.84	peak	
2		2500.000	41.65	-2.80	38.85	74.00	-35.15	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX G low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G G TX 2412
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

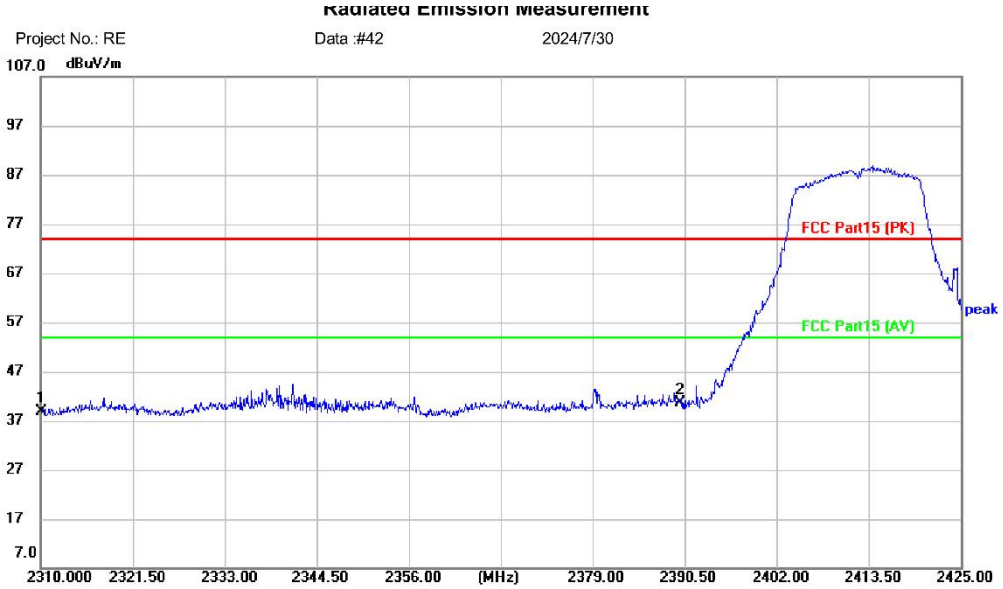
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.95	-2.67	39.28	74.00	-34.72	peak	
2	*	2390.000	42.19	-2.24	39.95	74.00	-34.05	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode:TX G low channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G G TX 2412
Note:

Polarization: ***Vertical***
Power:

Temperature: (C)
Humidity: %RH

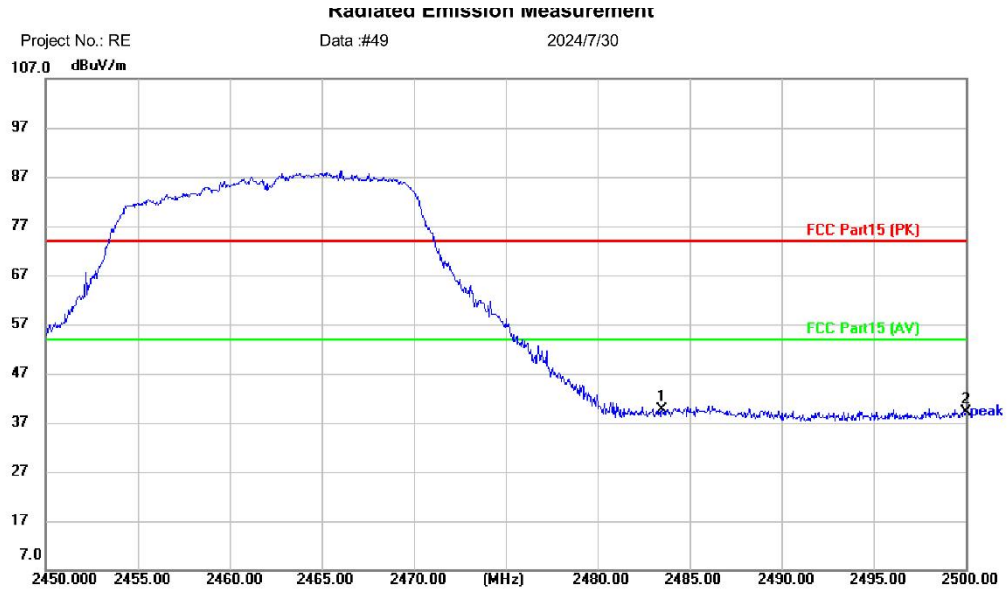
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.44	-2.67	38.77	74.00	-35.23	peak	
2	*	2390.000	42.77	-2.24	40.53	74.00	-33.47	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX G High channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G G TX 2462
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

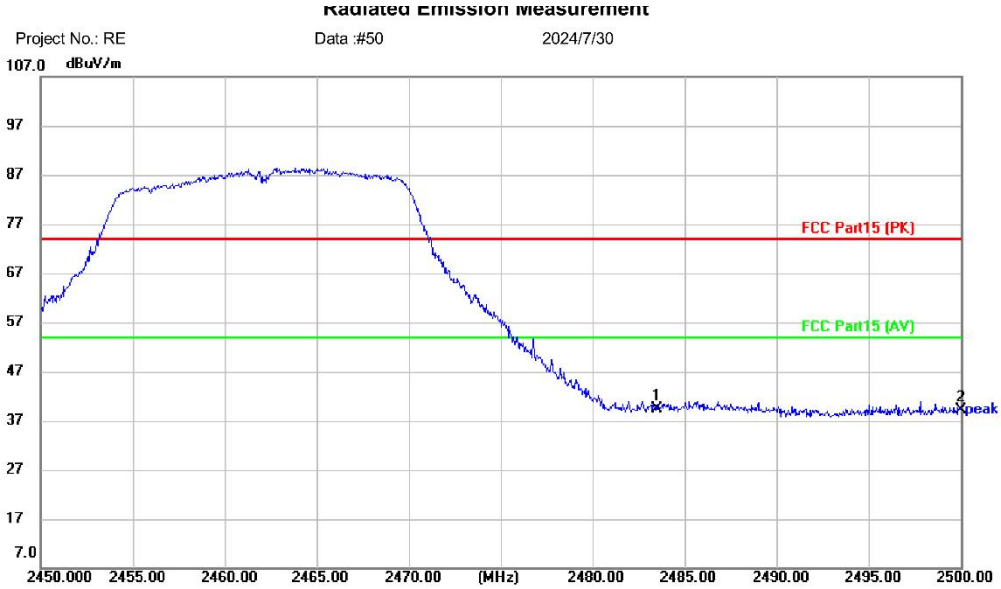
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	42.34	-2.71	39.63	74.00	-34.37	peak	
2		2500.000	41.83	-2.80	39.03	74.00	-34.97	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode:TX G High channel]; [Polarity: Vertical]



Site	Polarization: ***Vertical***	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: PanoX V3		
M/N: PIP225		
Mode: 2.4G G TX 2462		
Note:		

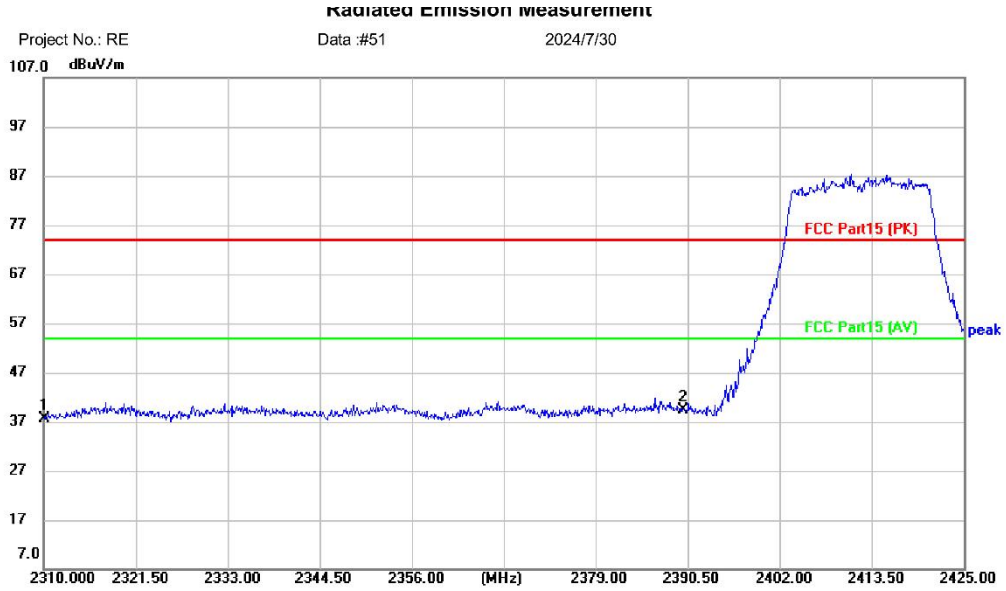
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	42.15	-2.71	39.44	74.00	-34.56	peak	
2		2500.000	41.81	-2.80	39.01	74.00	-34.99	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX N20 low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G N20 TX 2412
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

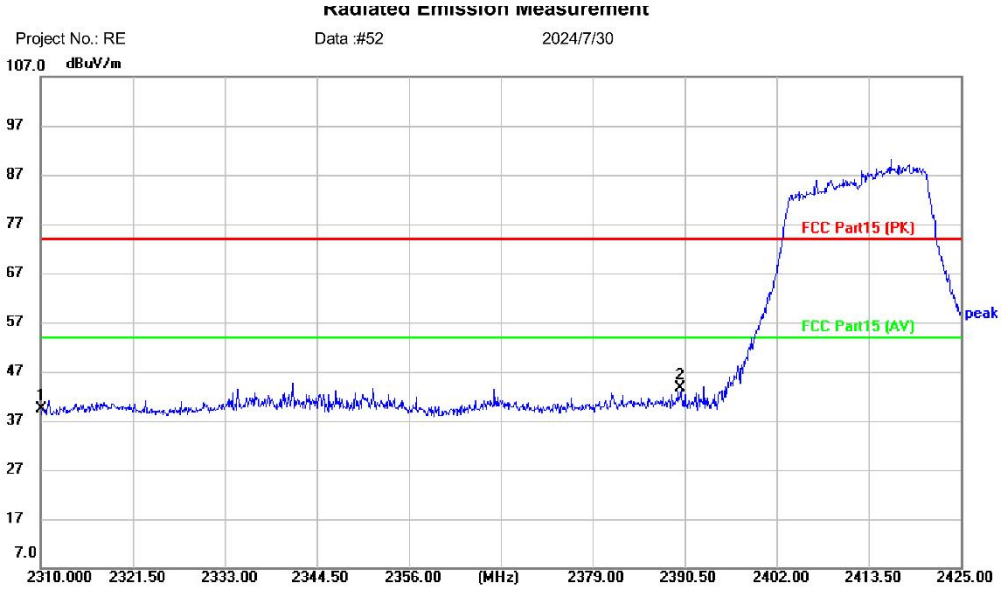
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	40.37	-2.67	37.70	74.00	-36.30	peak	
2	*	2390.000	41.59	-2.24	39.35	74.00	-34.65	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode:TX N20 low channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G N20 TX 2412
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

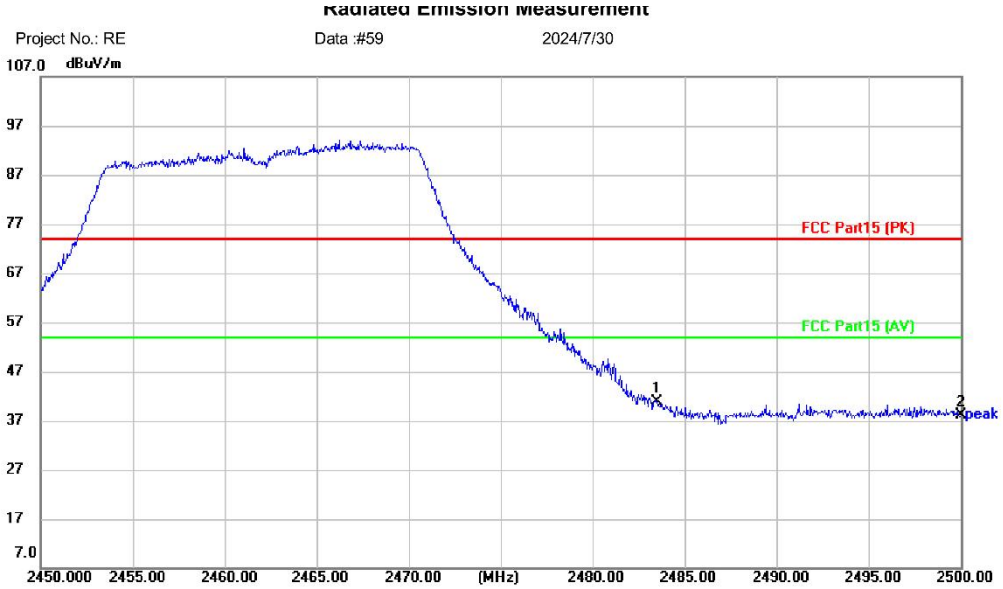
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	42.10	-2.67	39.43	74.00	-34.57	peak	
2	*	2390.000	45.97	-2.24	43.73	74.00	-30.27	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX N20 High channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G N20 TX 2462
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

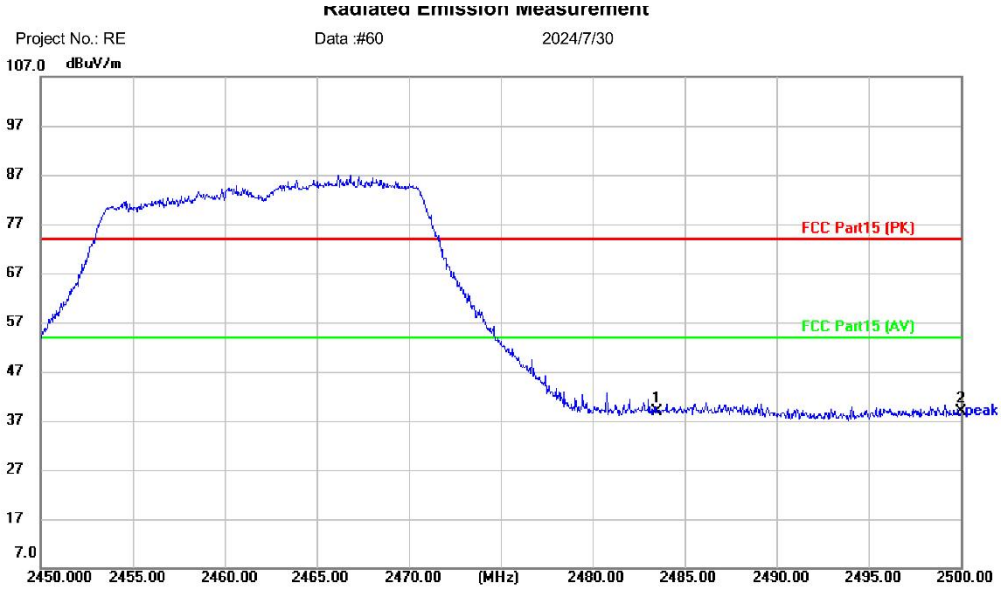
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	43.56	-2.71	40.85	74.00	-33.15	peak	
2		2500.000	41.03	-2.80	38.23	74.00	-35.77	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode:TX N20 High channel]; [Polarity: Vertical]



Site	Polarization: ***Vertical***	Temperature: (C)
Limit: FCC Part15 (PK)	Power:	Humidity: %RH
EUT: PanoX V3		
M/N: PIP225		
Mode: 2.4G N20 TX 2462		
Note:		

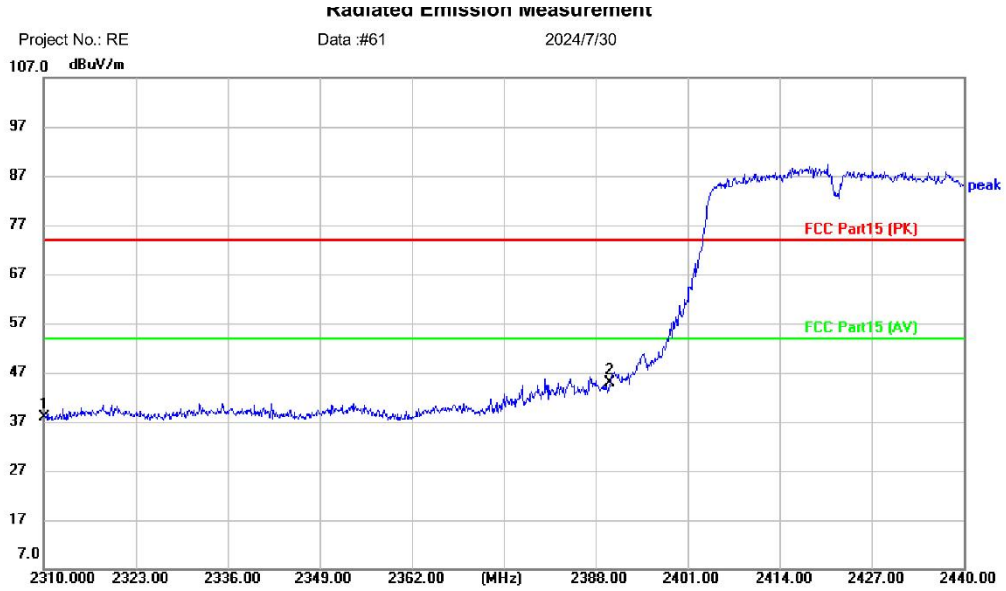
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	41.57	-2.71	38.86	74.00	-35.14	peak	
2		2500.000	41.62	-2.80	38.82	74.00	-35.18	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX N40 low channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G N40 TX 2422
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

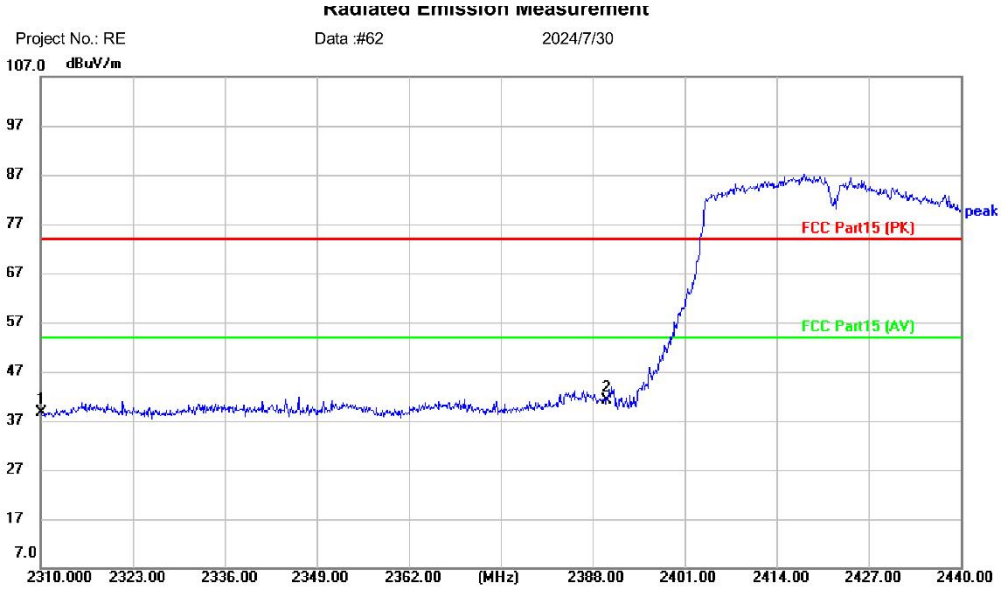
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	40.44	-2.67	37.77	74.00	-36.23	peak	
2	*	2390.000	47.16	-2.24	44.92	74.00	-29.08	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode:TX N40 low channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G N40 TX 2422
Note:

Polarization: *Vertical*
Power:

Temperature: (C)
Humidity: %RH

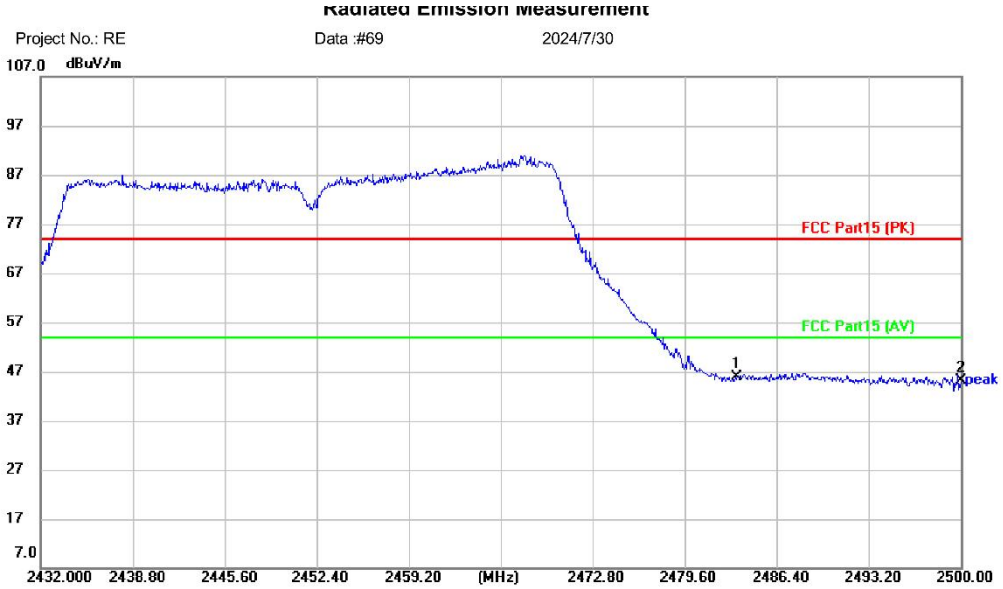
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		2310.000	41.37	-2.67	38.70	74.00	-35.30	peak	
2	*	2390.000	43.41	-2.24	41.17	74.00	-32.83	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode: TX N40 High channel]; [Polarity: Horizontal]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G N40 TX 2452
Note:

Polarization: ***Horizontal***
Power:

Temperature: (C)
Humidity: %RH

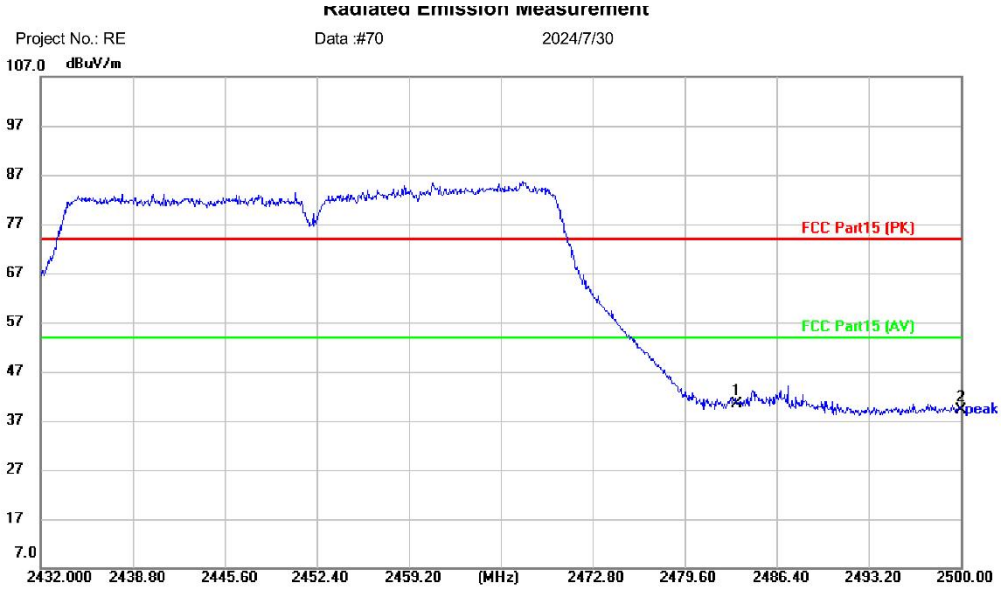
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	48.58	-2.71	45.87	74.00	-28.13	peak	
2		2500.000	48.05	-2.80	45.25	74.00	-28.75	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

[Test mode:TX N40 High channel]; [Polarity: Vertical]



Site
Limit: FCC Part15 (PK)
EUT: PanoX V3
M/N: PIP225
Mode: 2.4G N40 TX 2452
Note:

Polarization: ***Vertical***
Power:

Temperature: (C)
Humidity: %RH

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2483.500	43.18	-2.71	40.47	74.00	-33.53	peak	
2		2500.000	41.94	-2.80	39.14	74.00	-34.86	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Receiver: Spectrum Analyzer: FSP40

Test Result: Pass

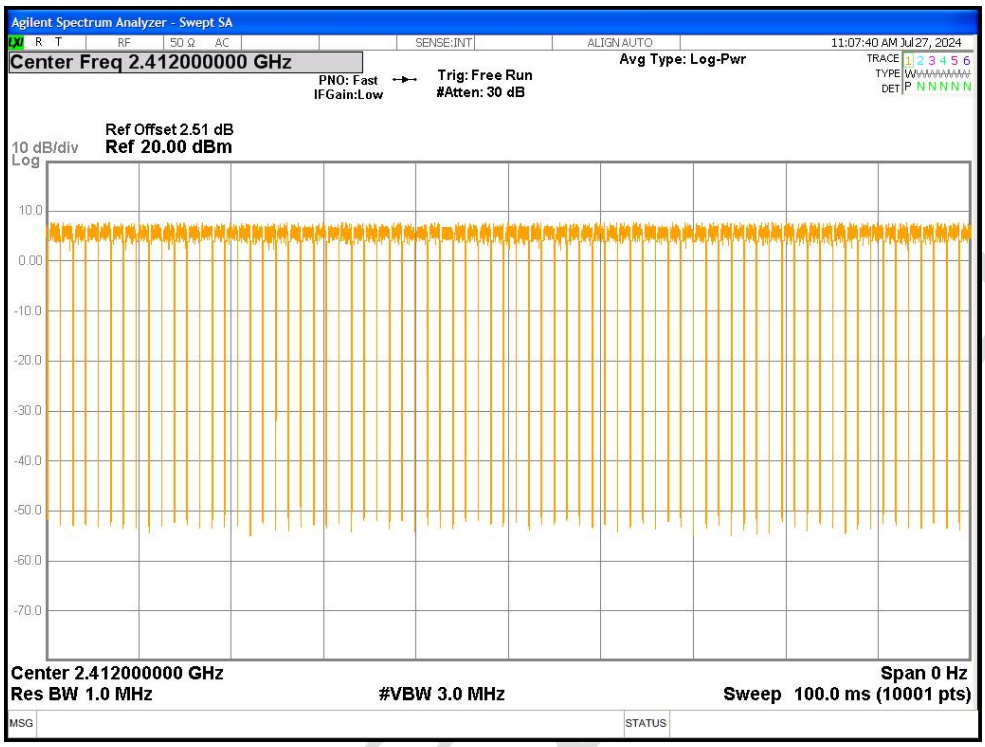
7 Appendix A

7.1 Duty Cycle

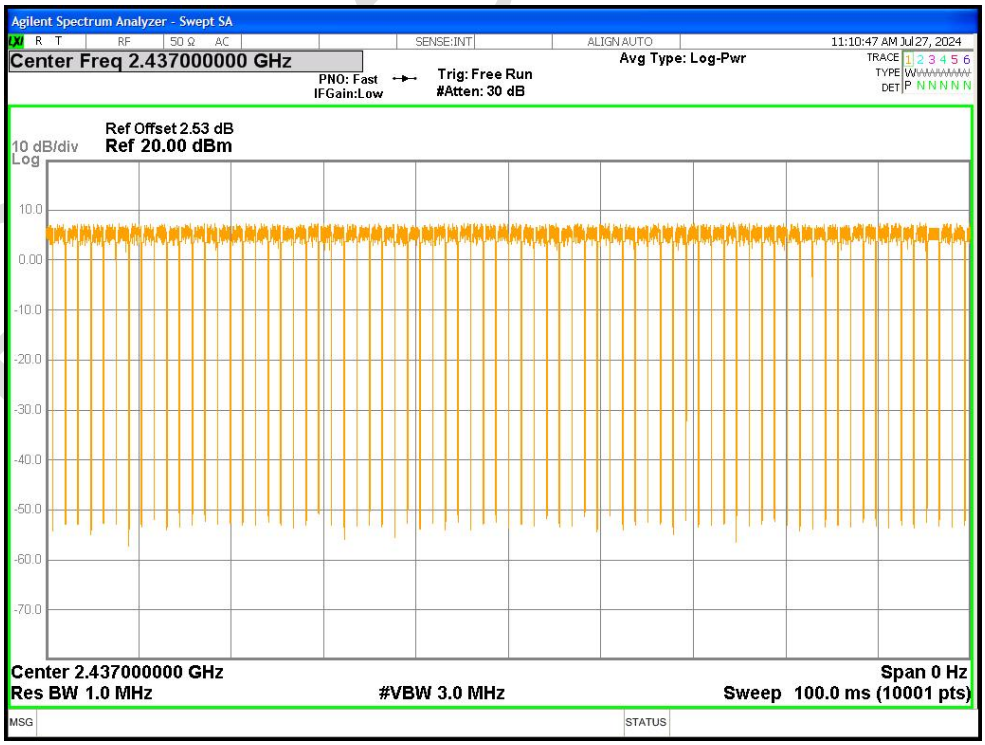
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)
NVNT	b	2412	Ant1	94.71	0.24
NVNT	b	2437	Ant1	94.83	0.23
NVNT	b	2462	Ant1	94.72	0.24
NVNT	b	2412	Ant2	94.67	0.24
NVNT	b	2437	Ant2	94.74	0.23
NVNT	b	2462	Ant2	94.68	0.24
NVNT	g	2412	Ant1	89.29	0.49
NVNT	g	2437	Ant1	92.86	0.32
NVNT	g	2462	Ant1	92.84	0.32
NVNT	g	2412	Ant2	92.86	0.32
NVNT	g	2437	Ant2	92.86	0.32
NVNT	g	2462	Ant2	89.29	0.49
NVNT	n20	2412	Sum	89.25	0.49
NVNT	n20	2437	Sum	90.08	0.45
NVNT	n20	2462	Sum	89.25	0.49
NVNT	n40	2422	Sum	76.48	1.16
NVNT	n40	2437	Sum	76.48	1.16
NVNT	n40	2452	Sum	76.44	1.17

BlueAsia

Duty Cycle NVNT b 2412MHz Ant1



Duty Cycle NVNT b 2437MHz Ant1



Duty Cycle NVNT b 2462MHz Ant1