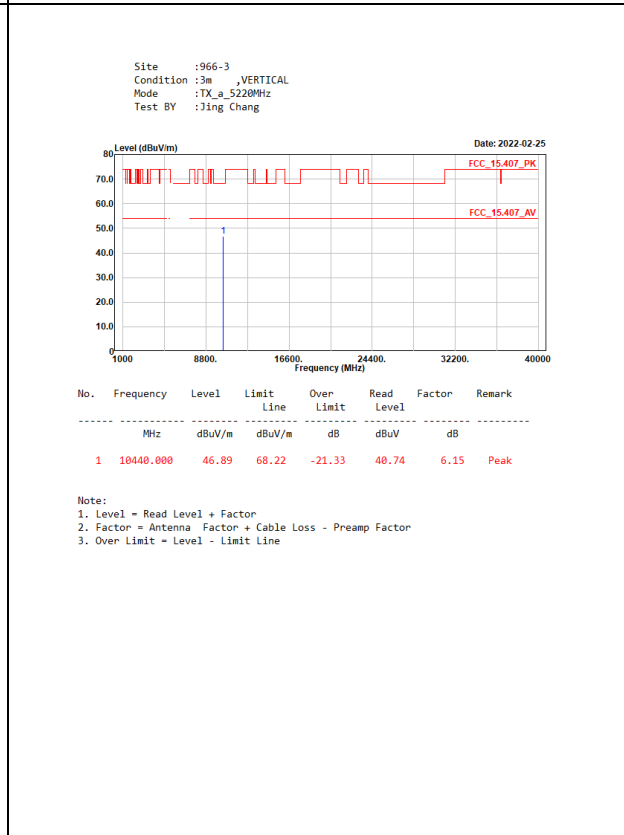
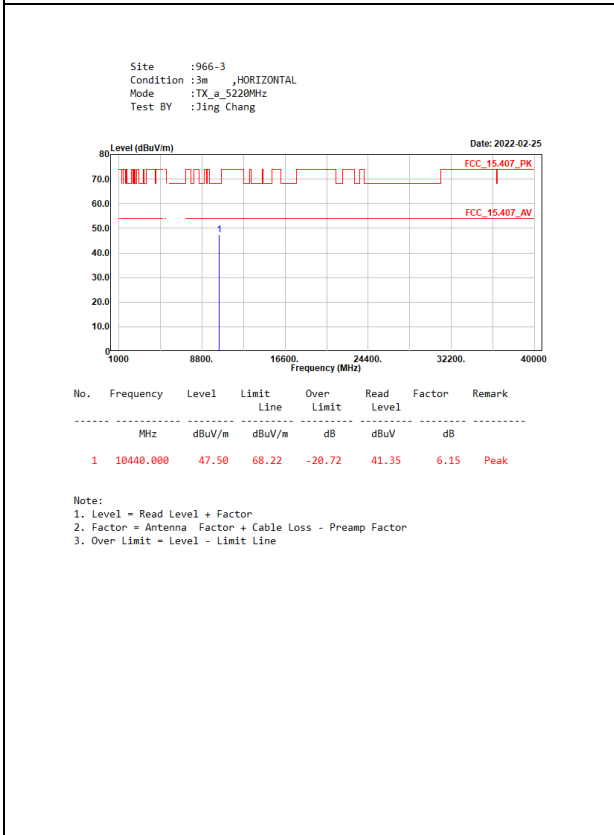
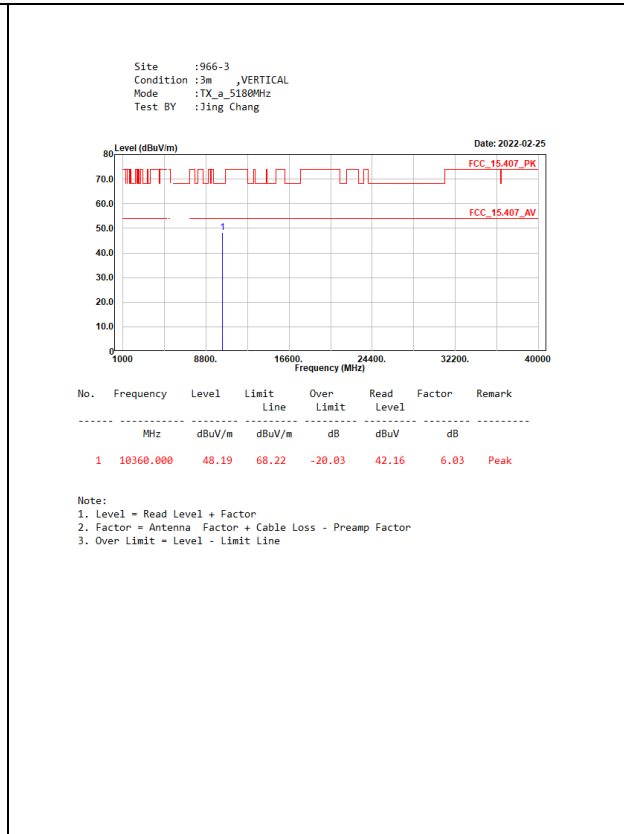
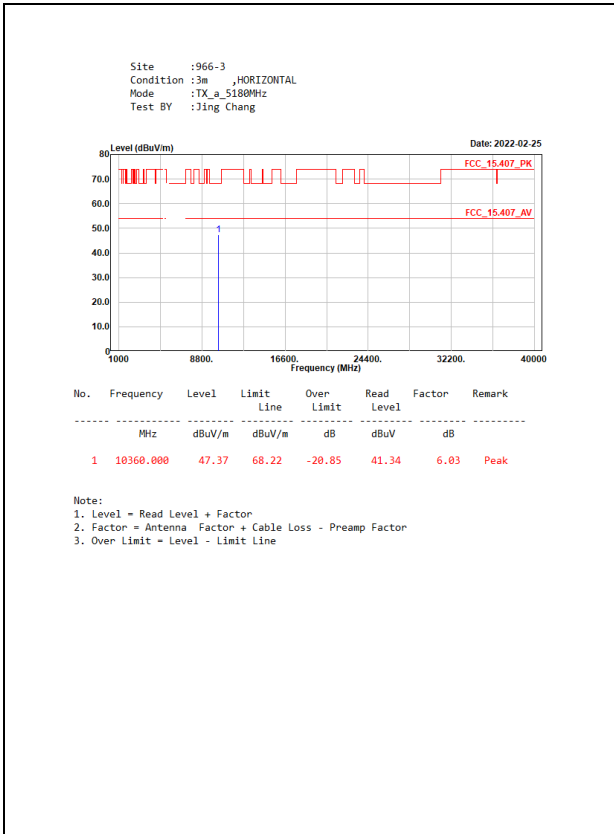
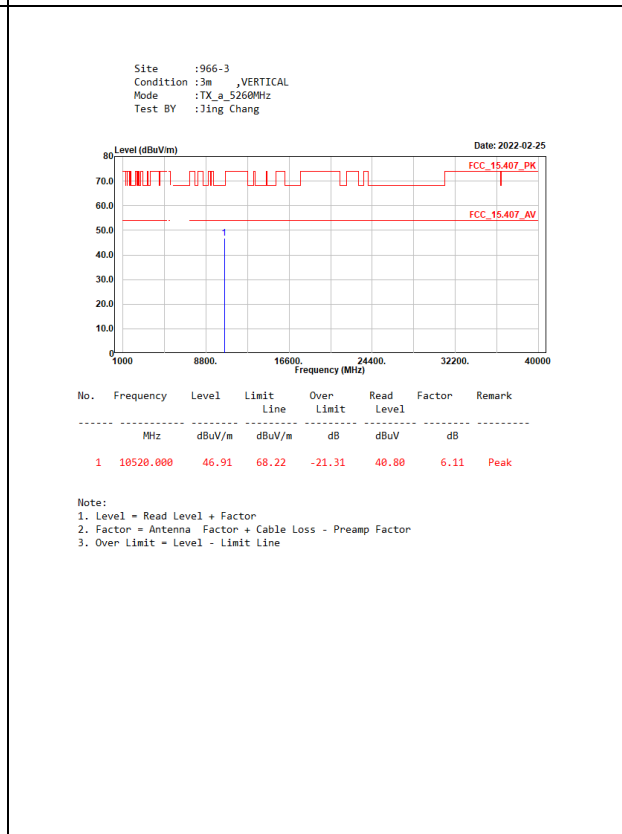
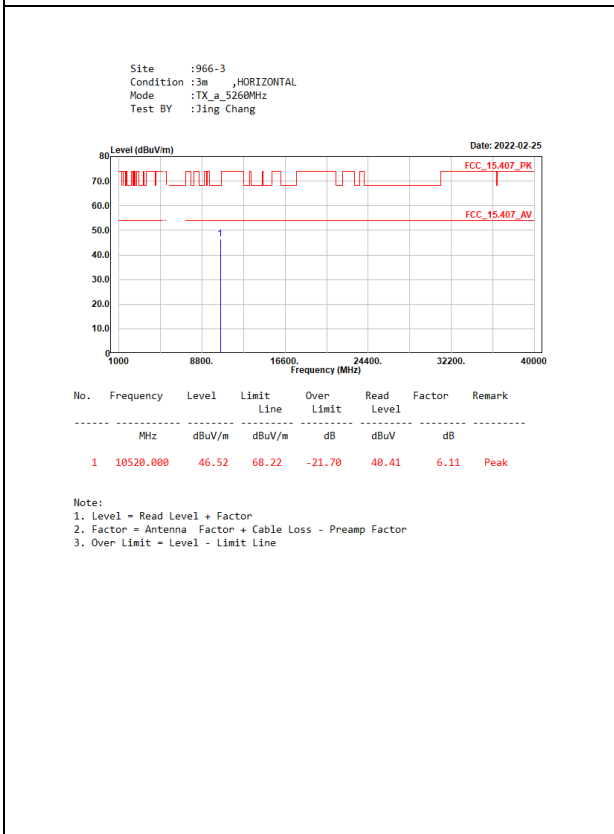
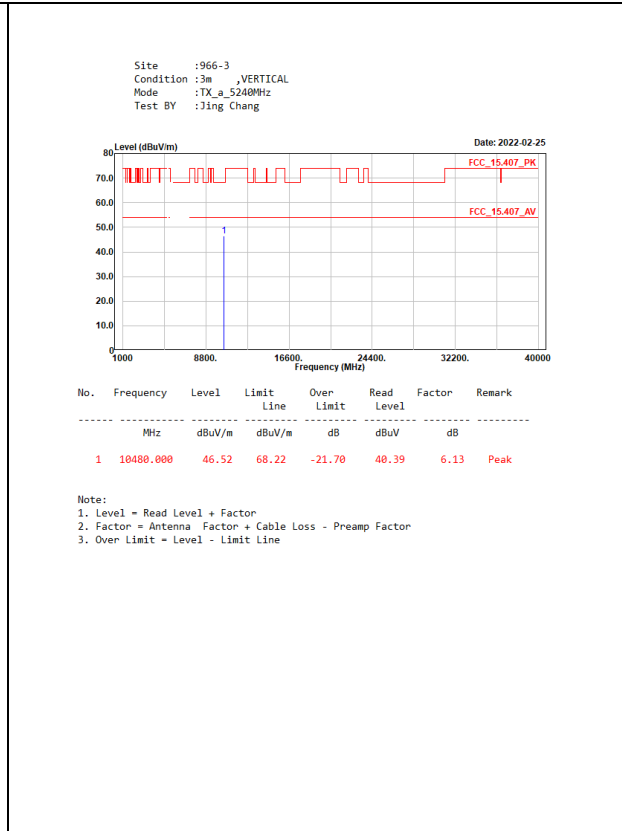
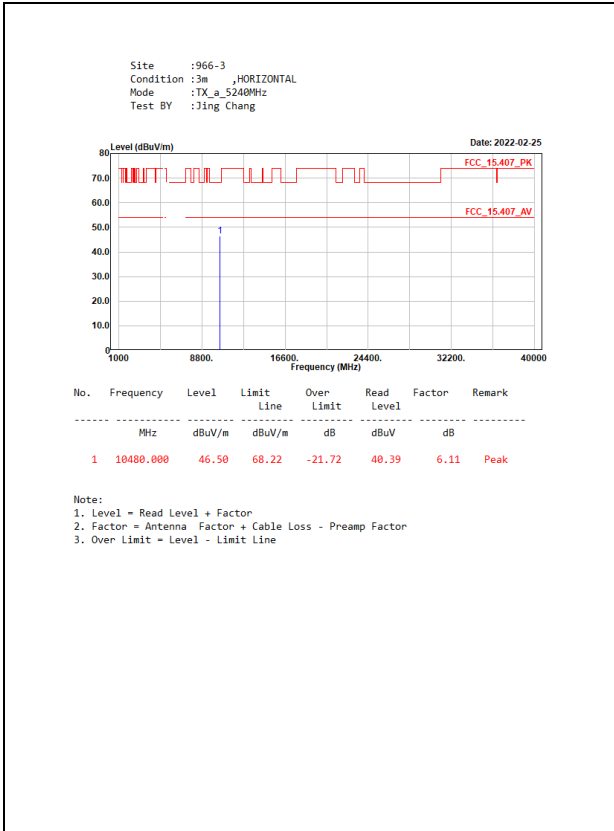
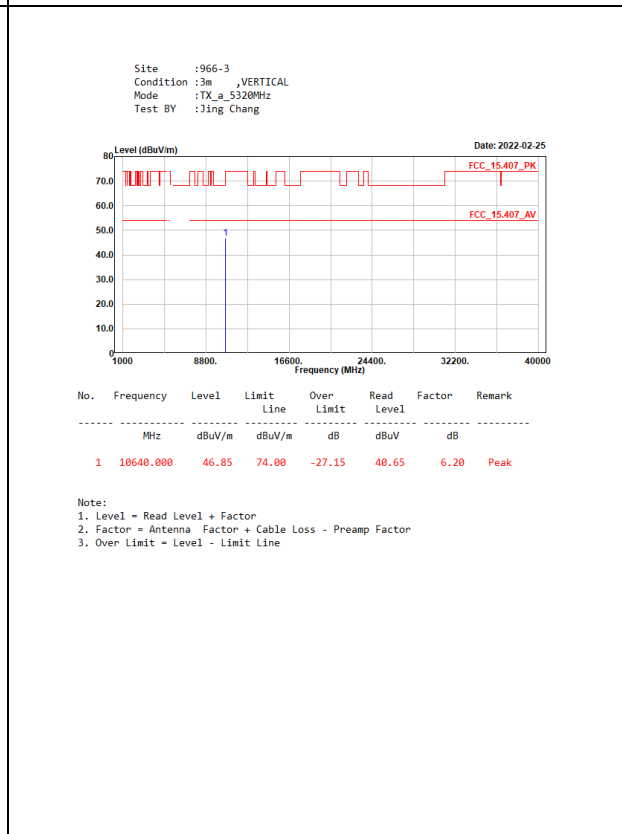
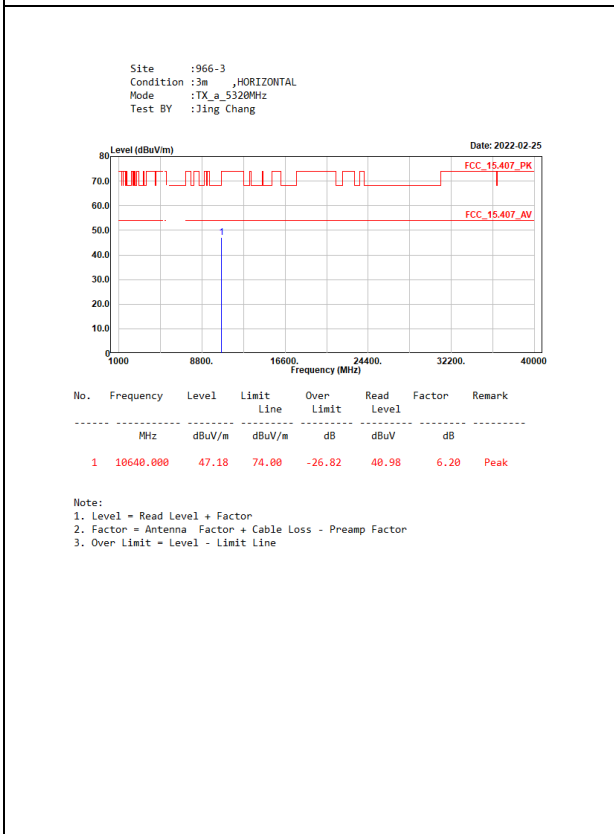
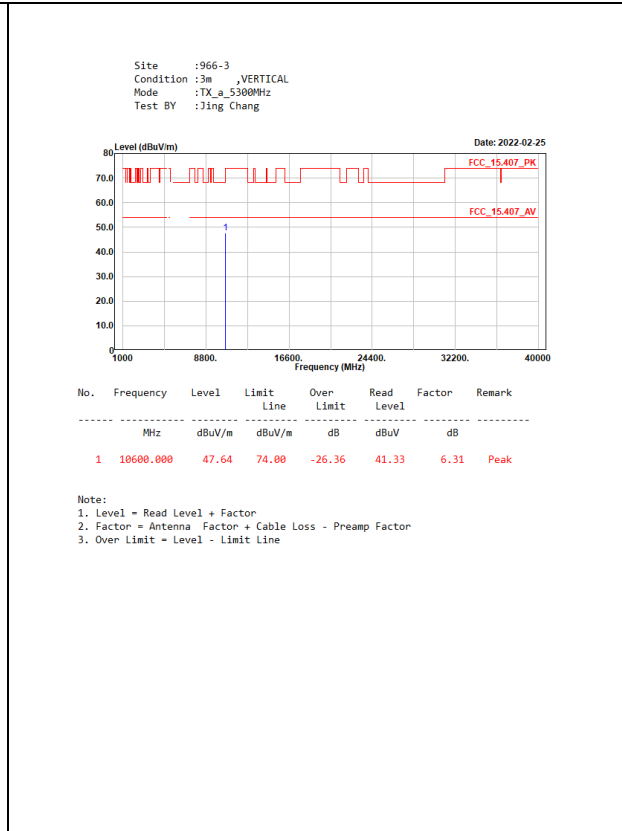
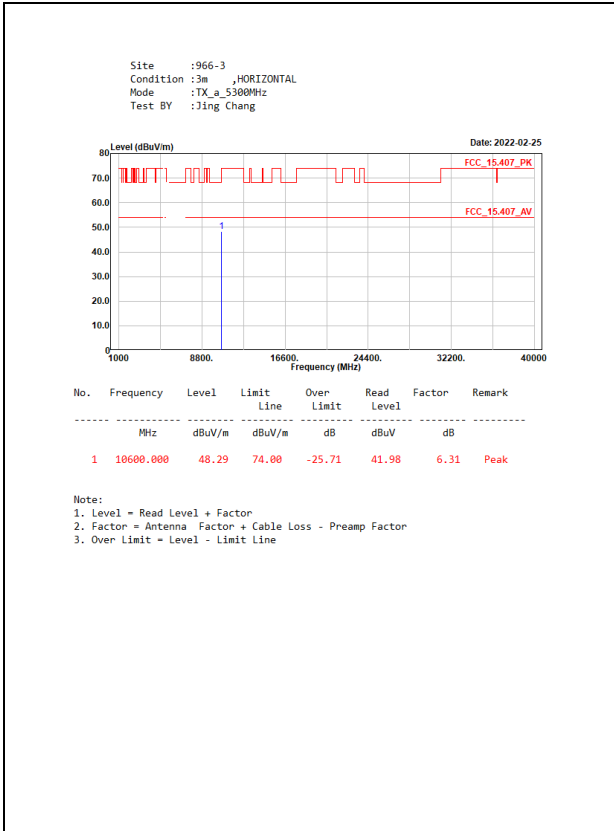
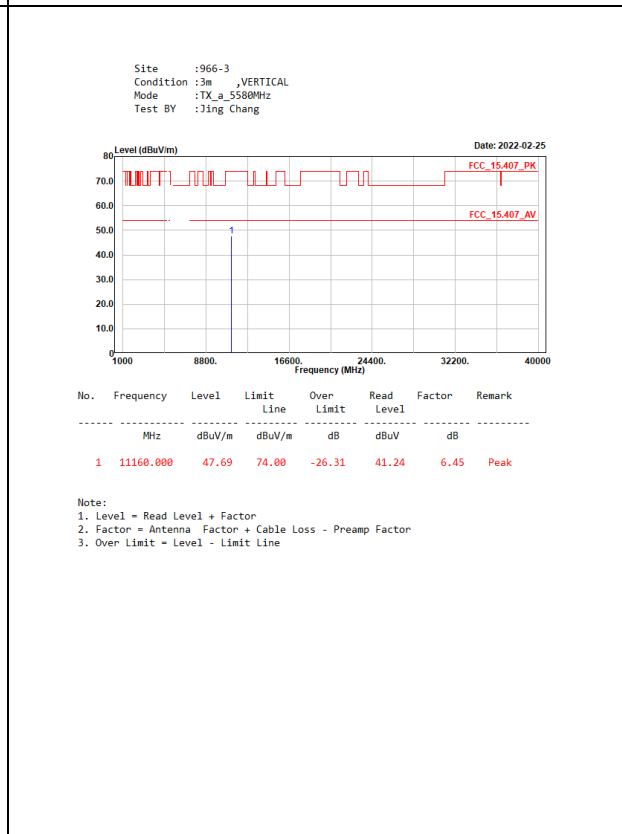
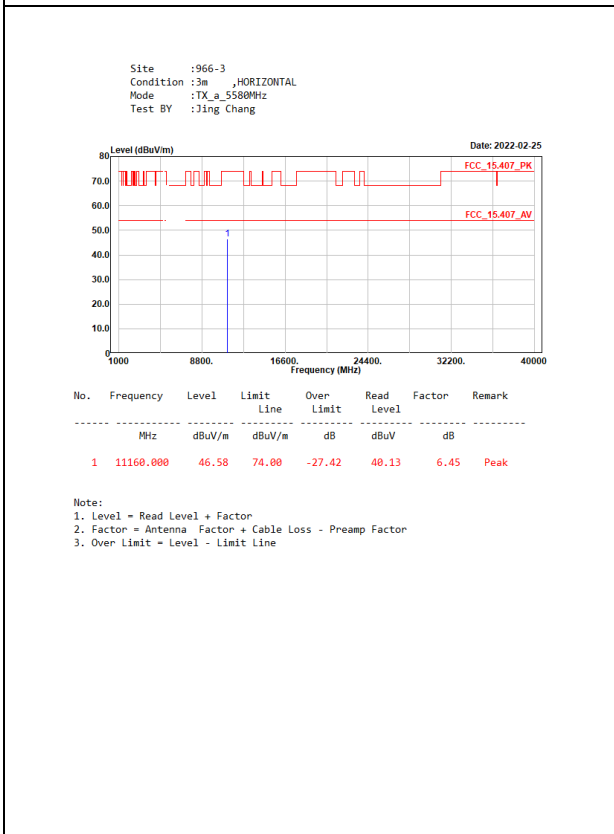
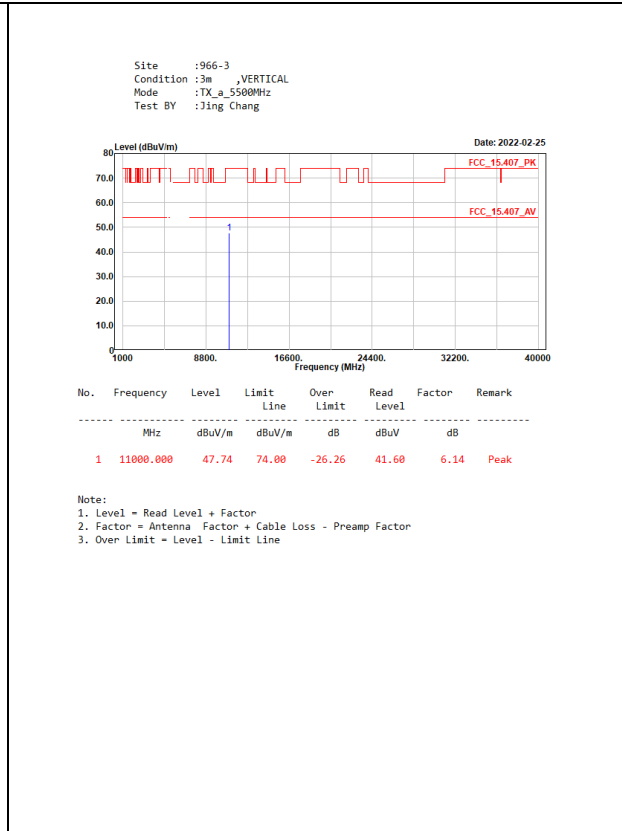
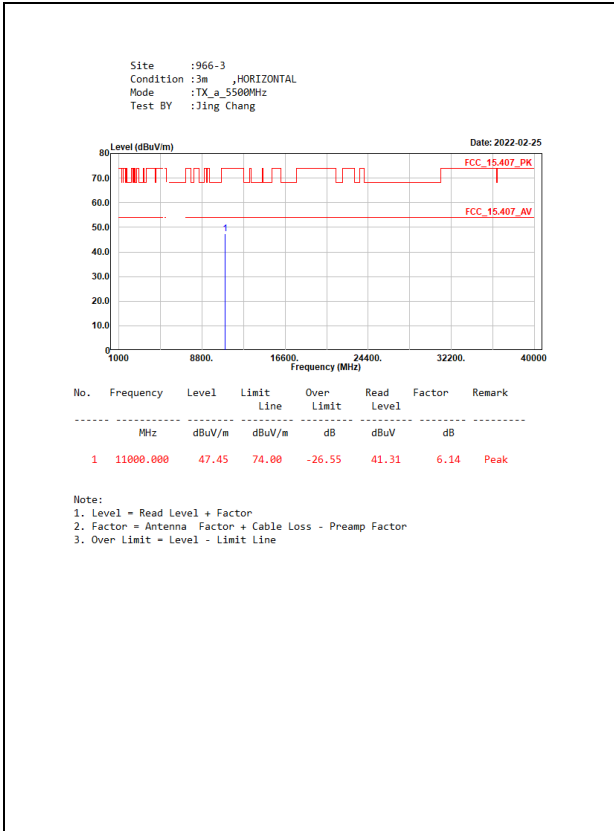


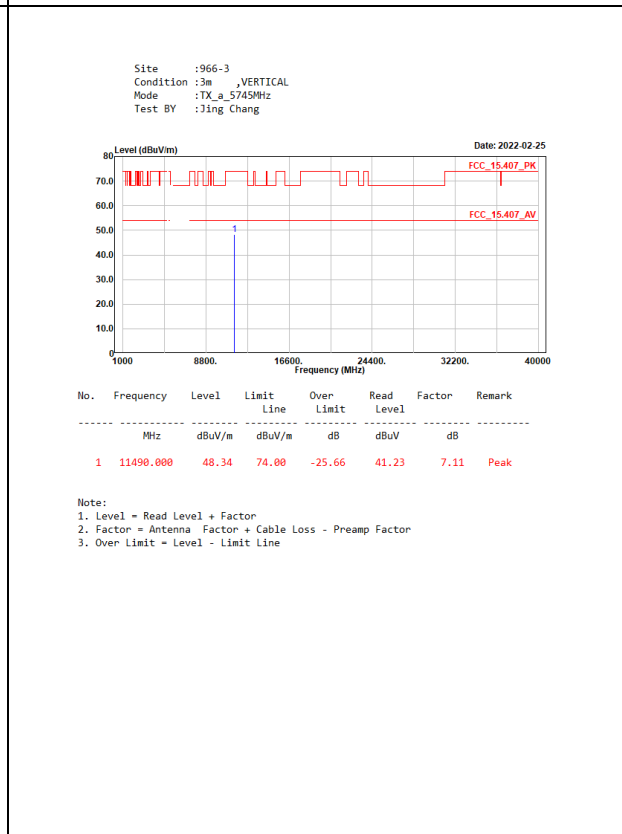
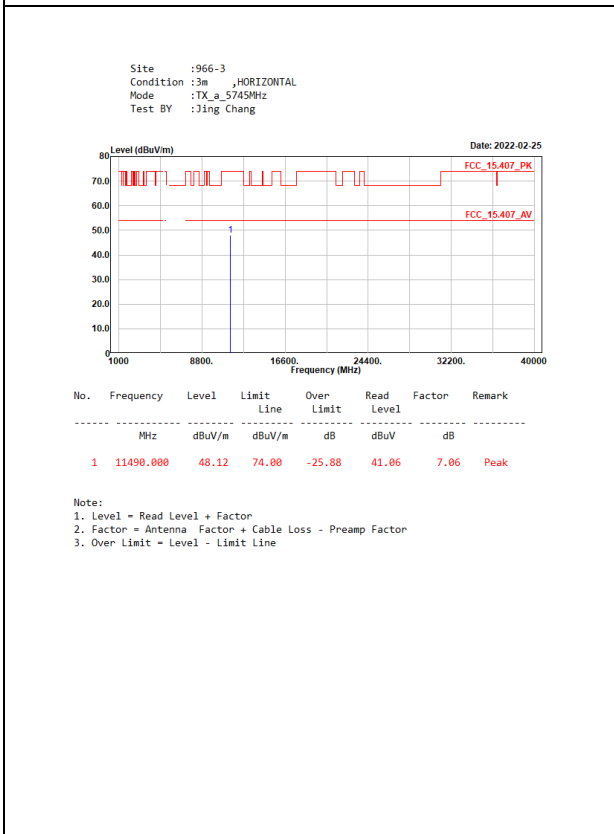
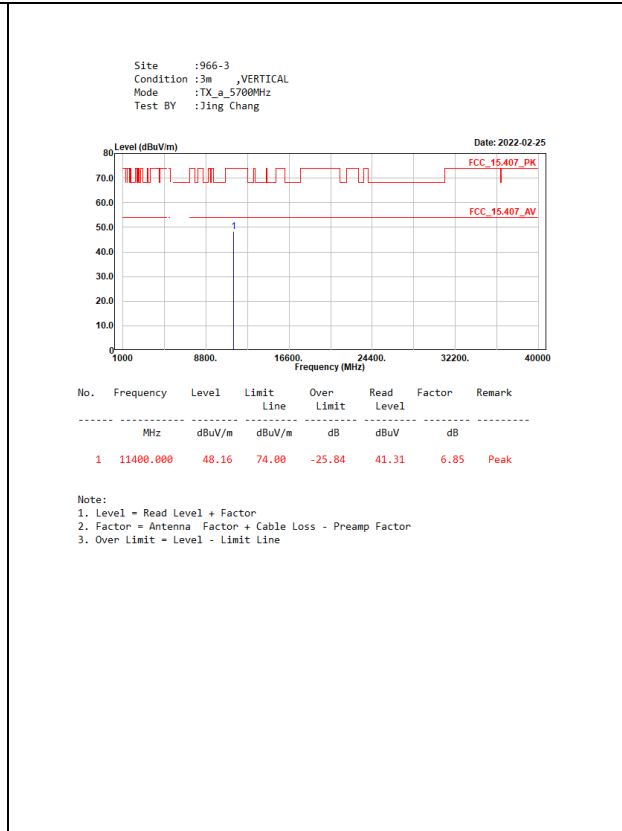
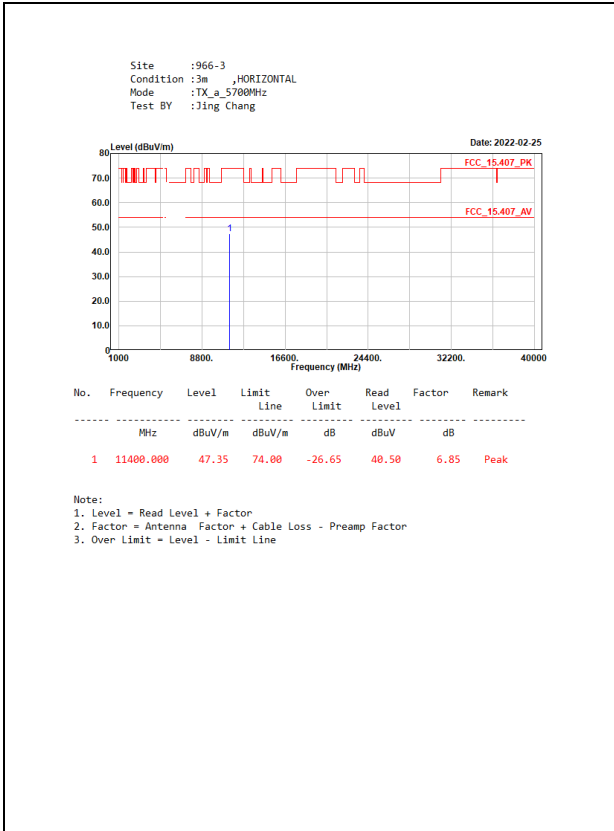
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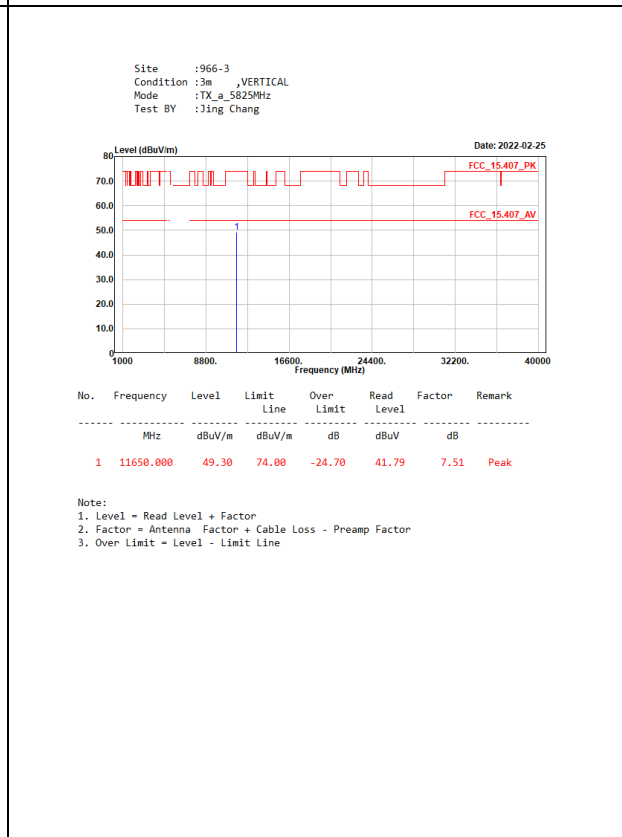
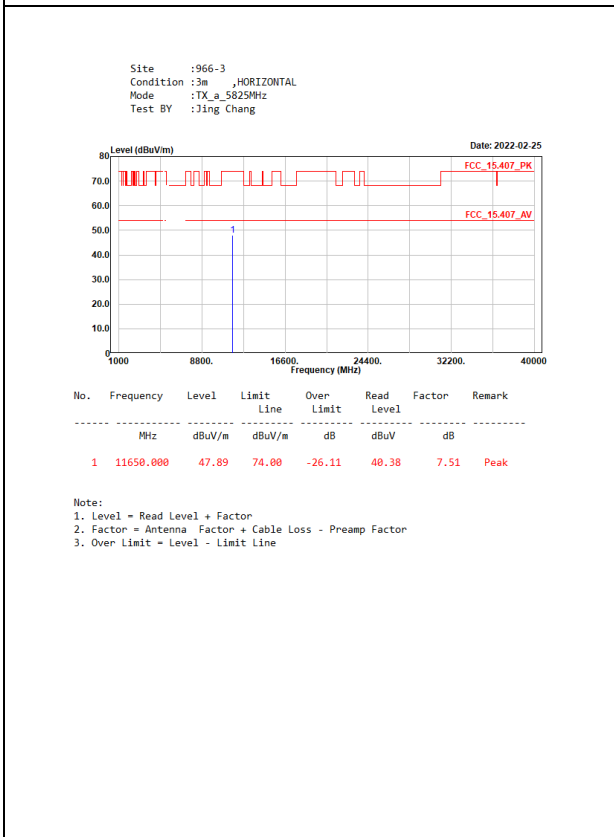
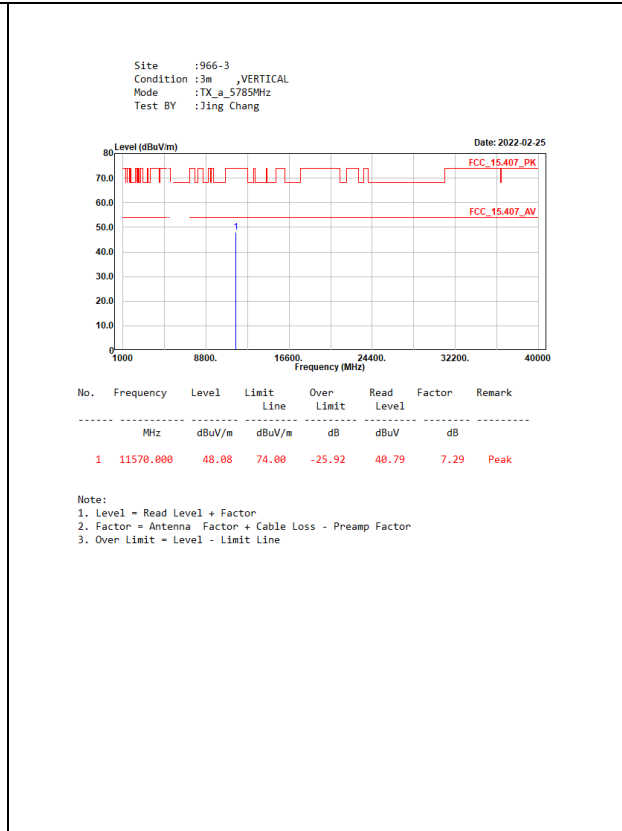
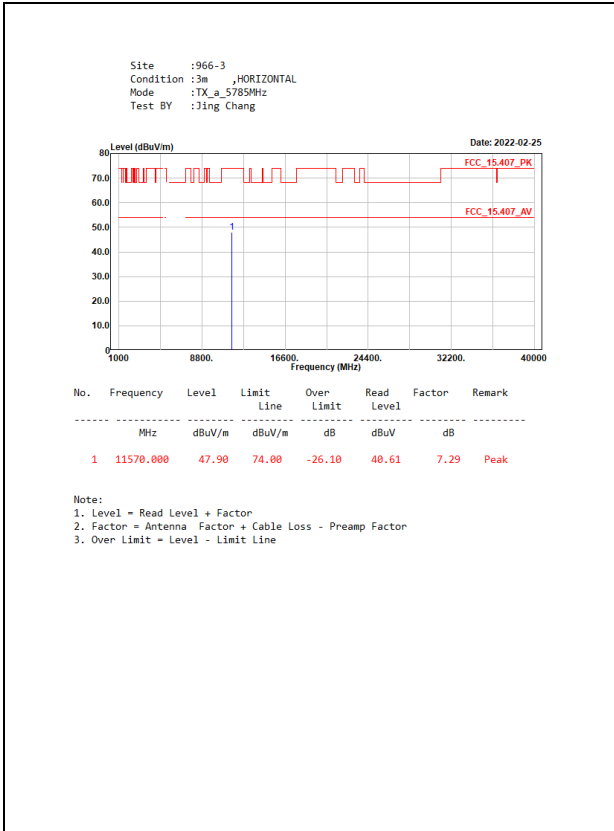


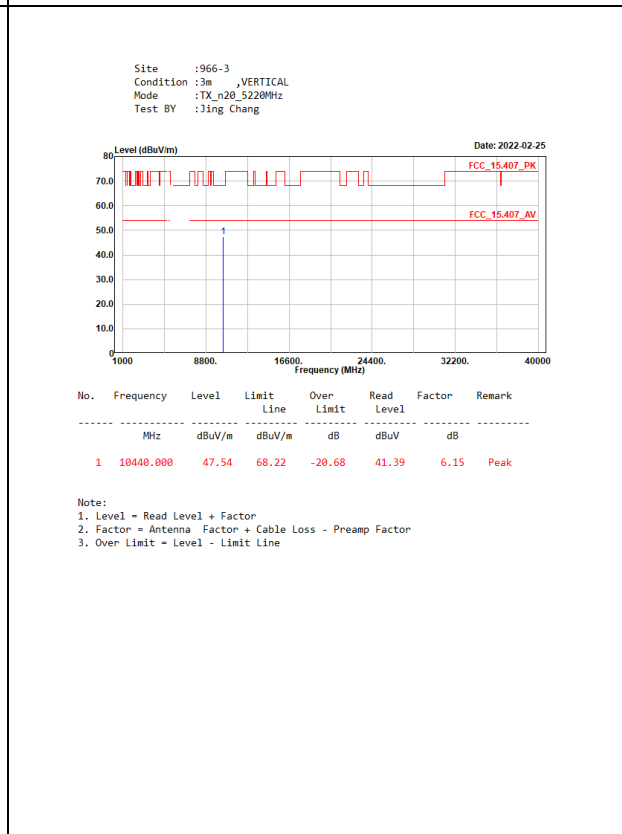
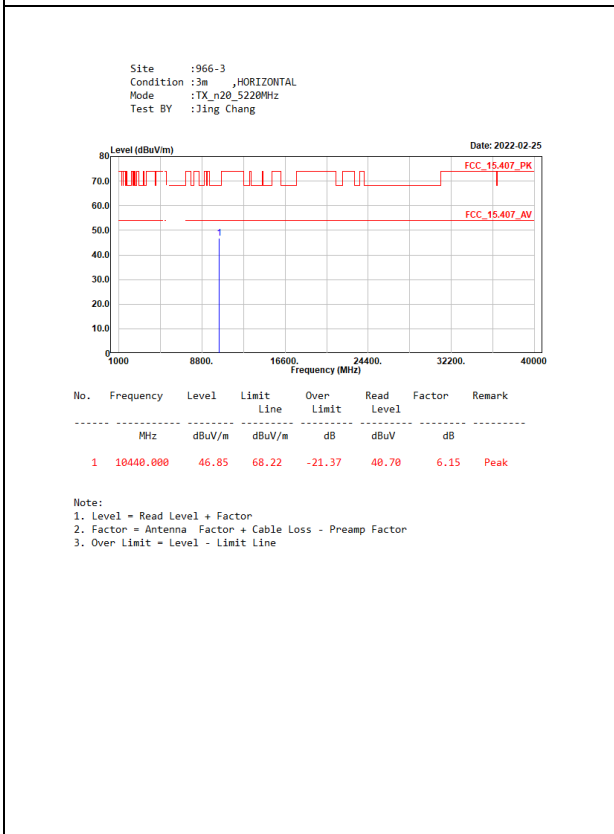
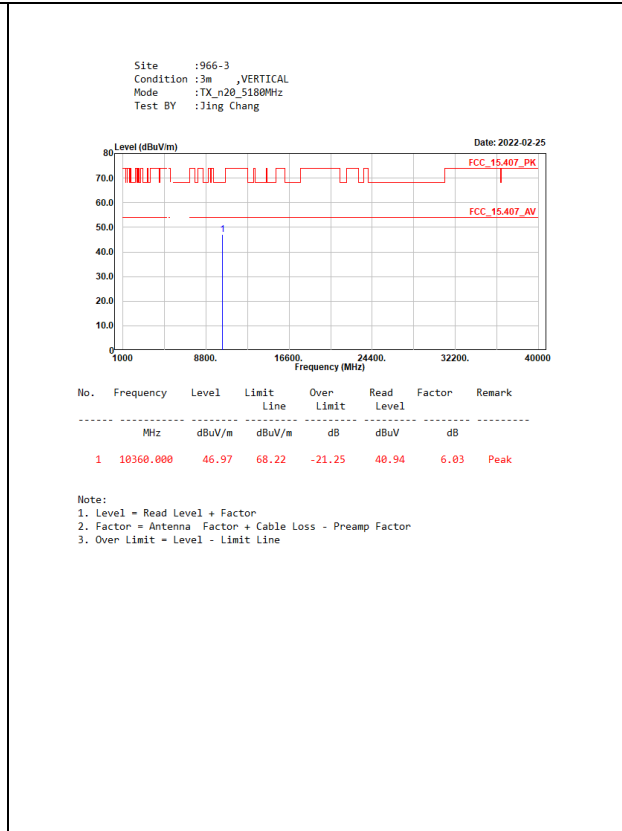
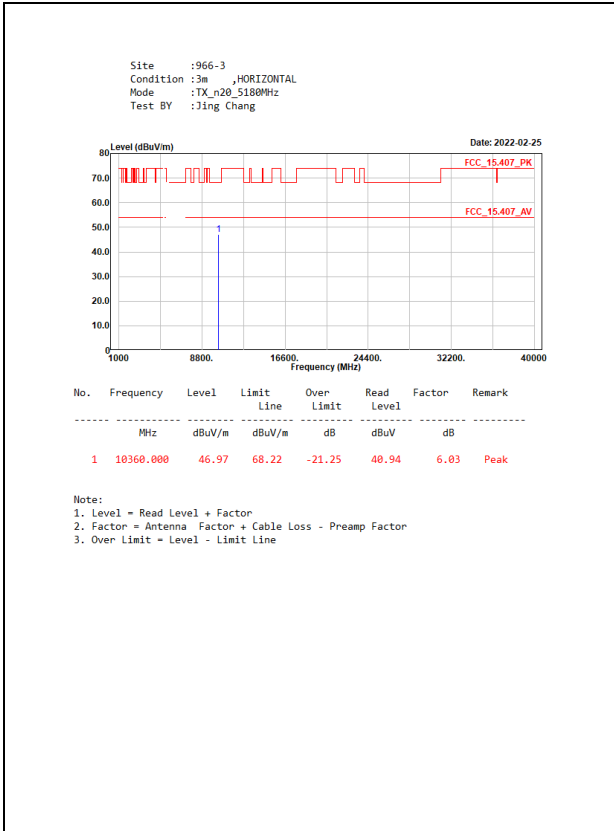


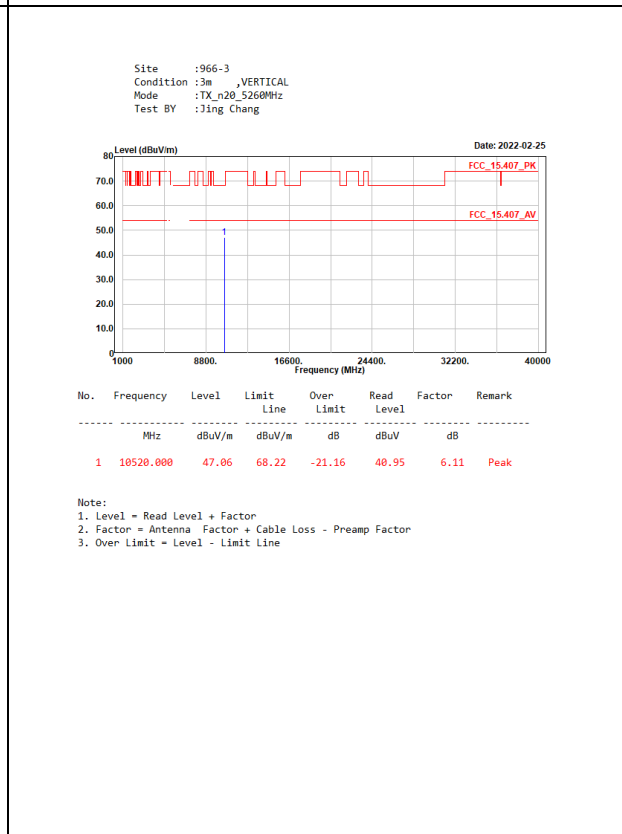
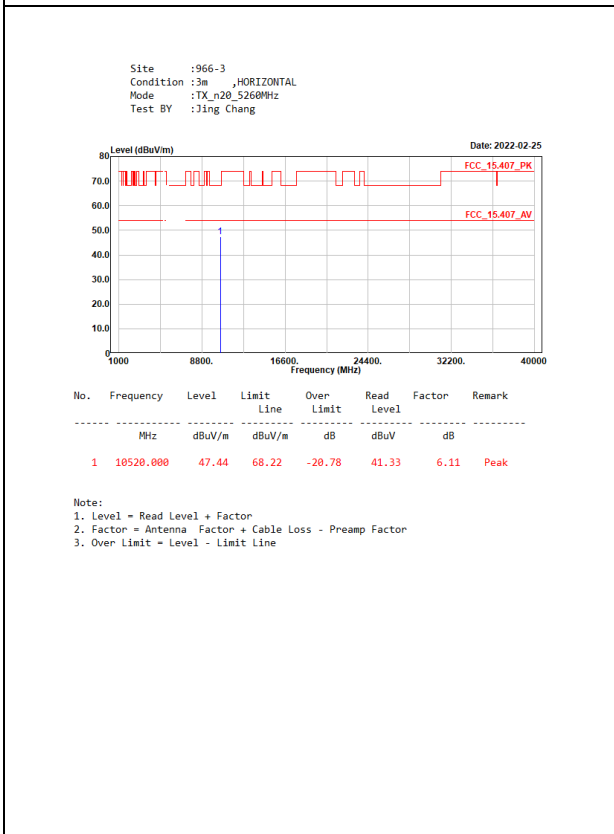
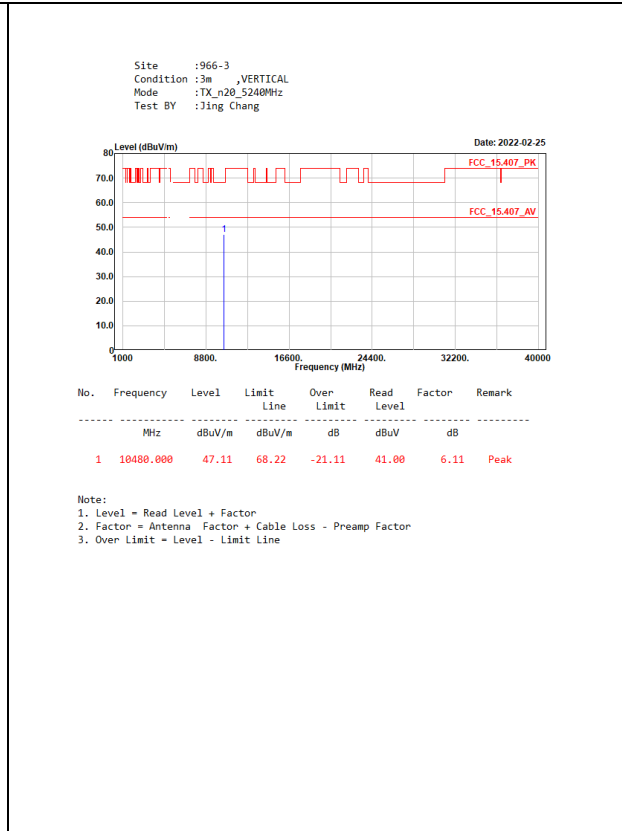
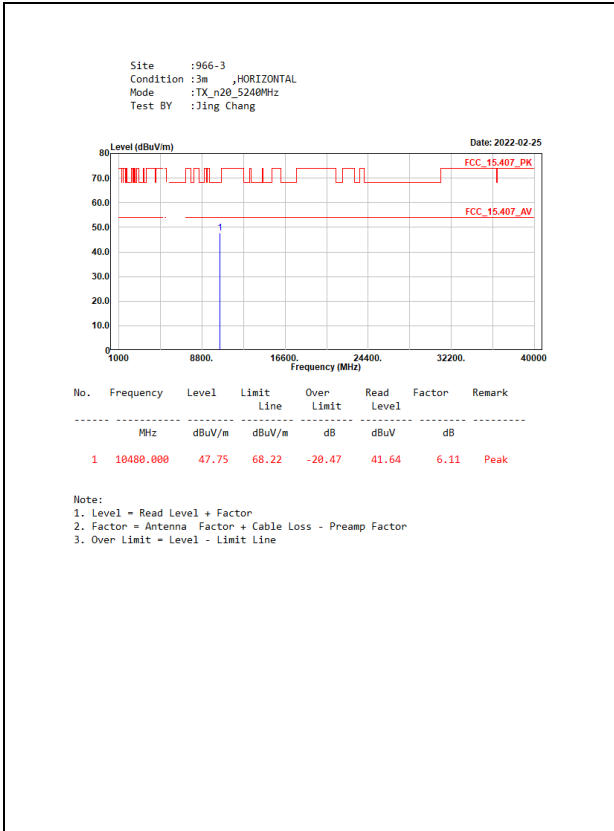


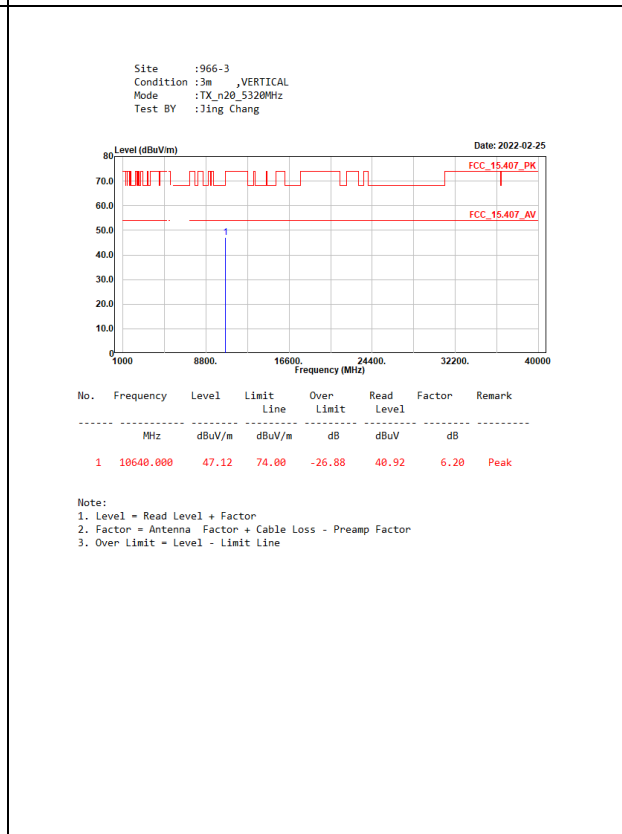
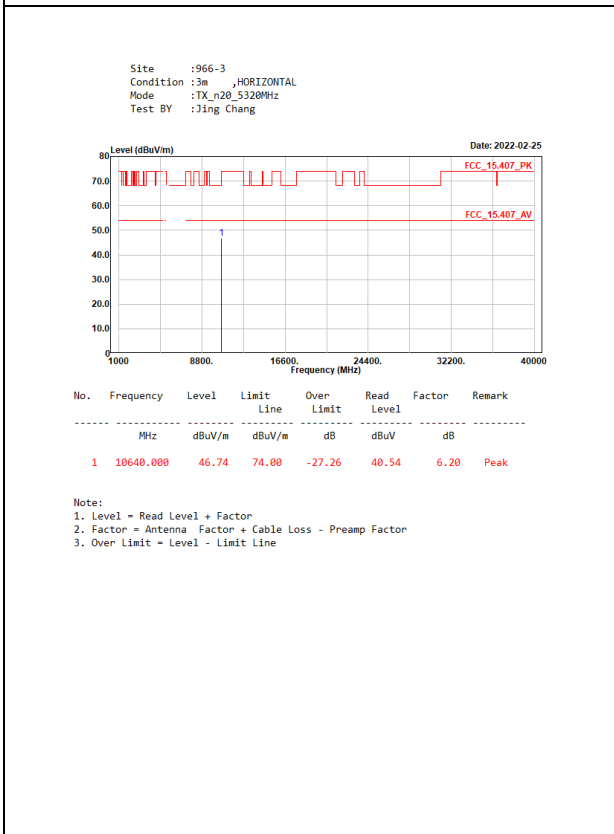
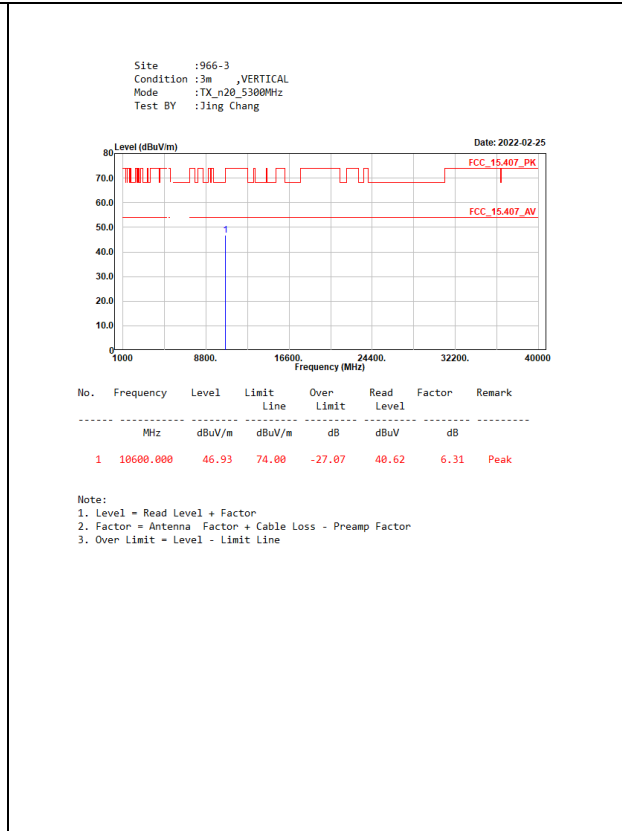
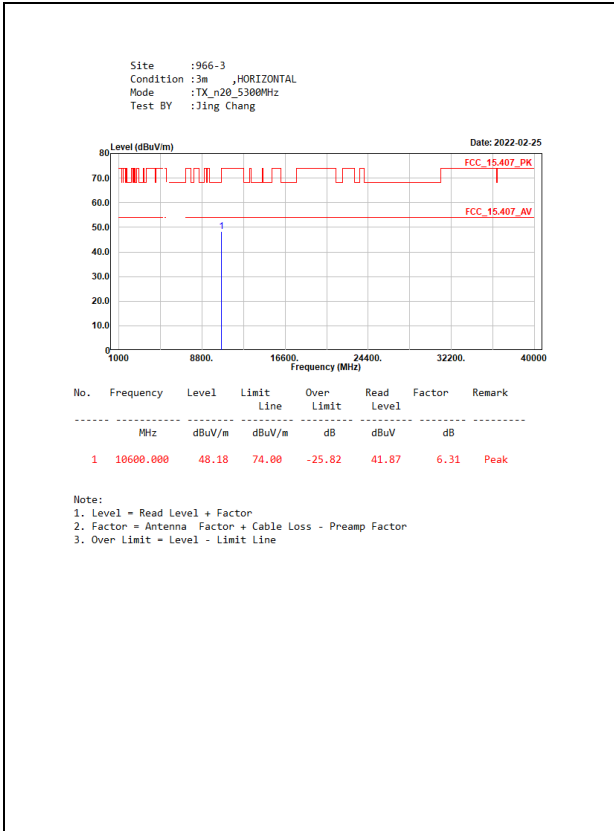


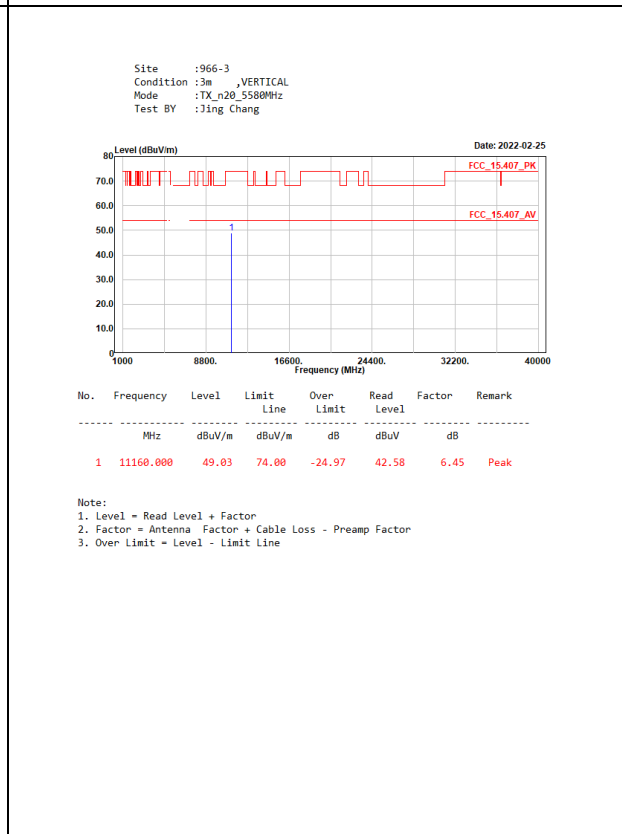
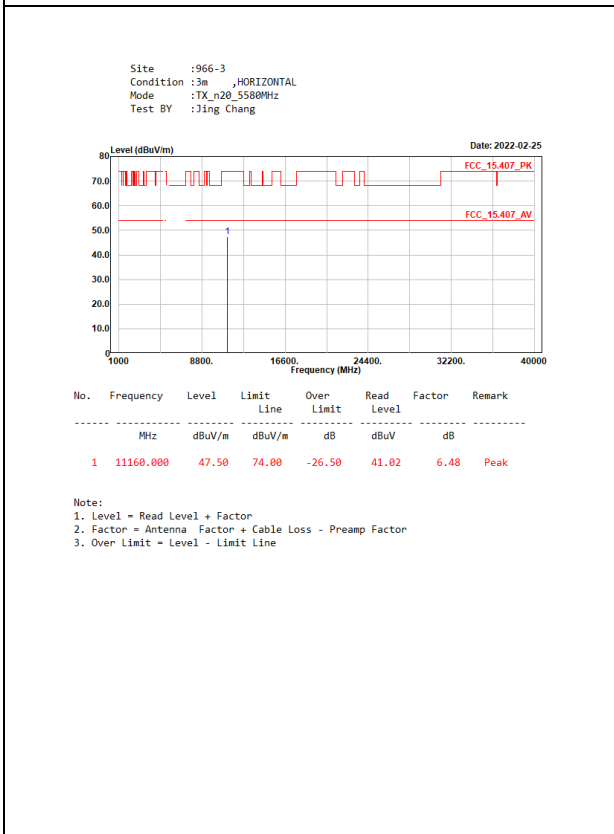
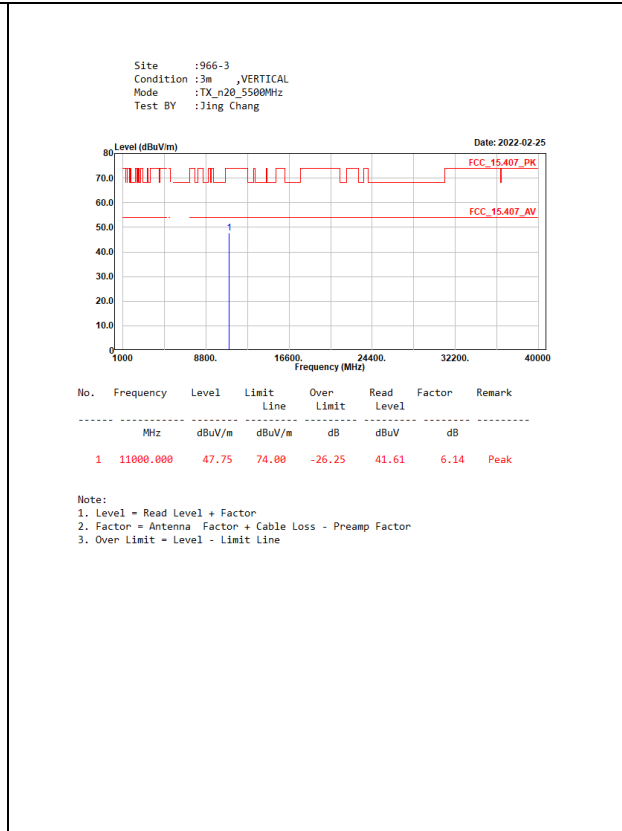
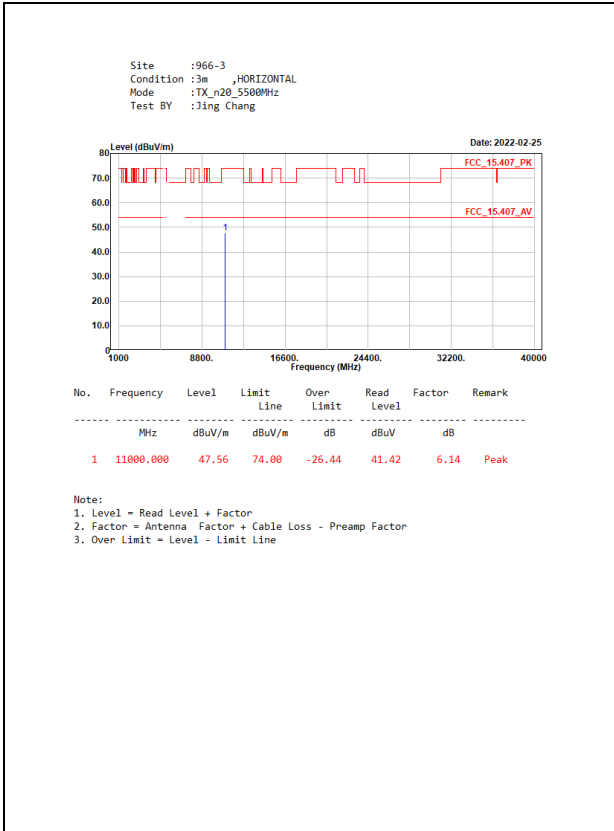


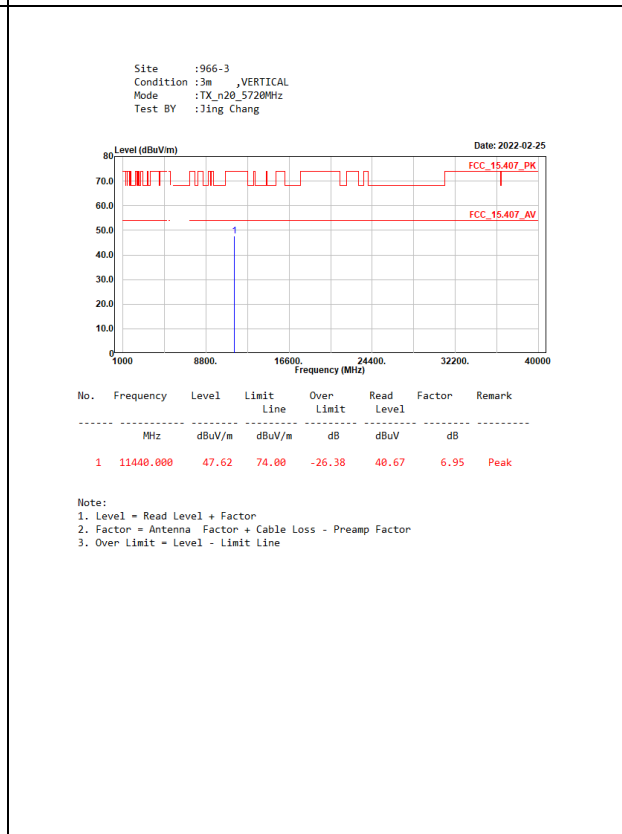
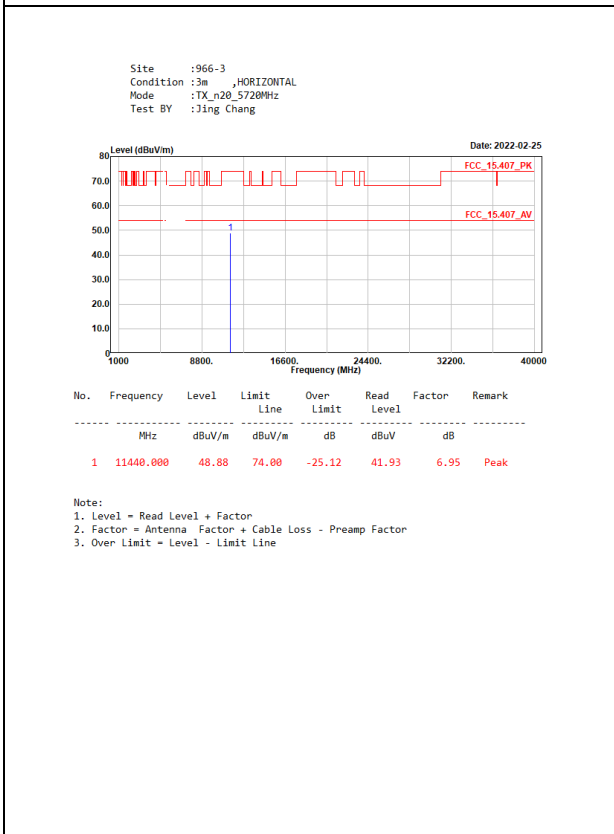
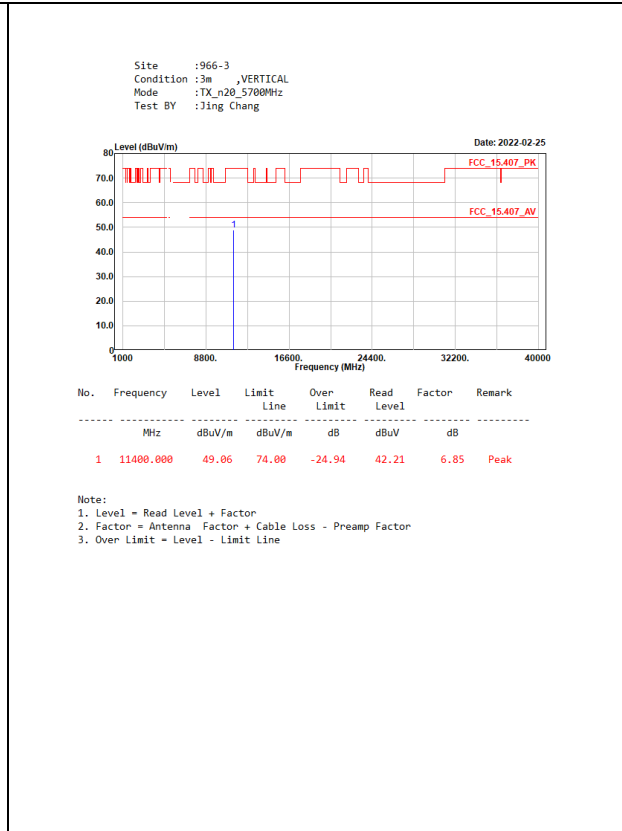
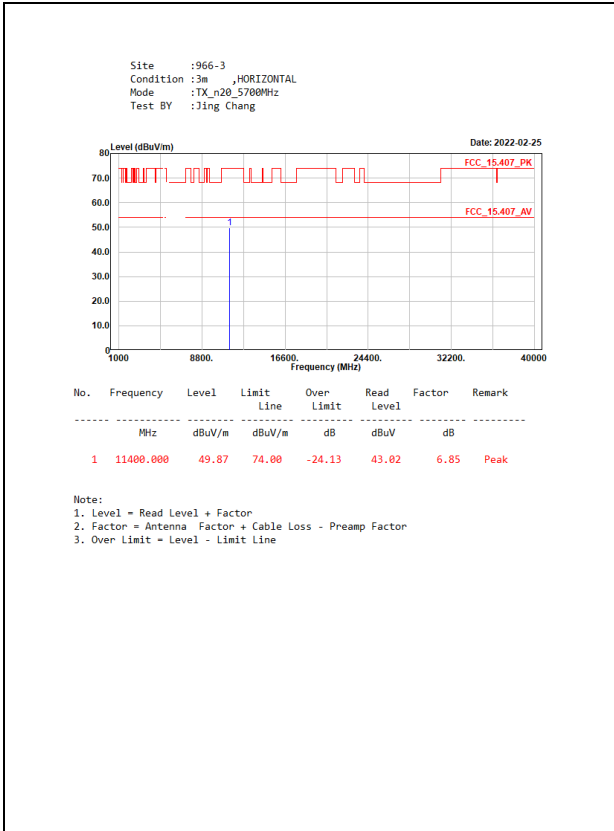


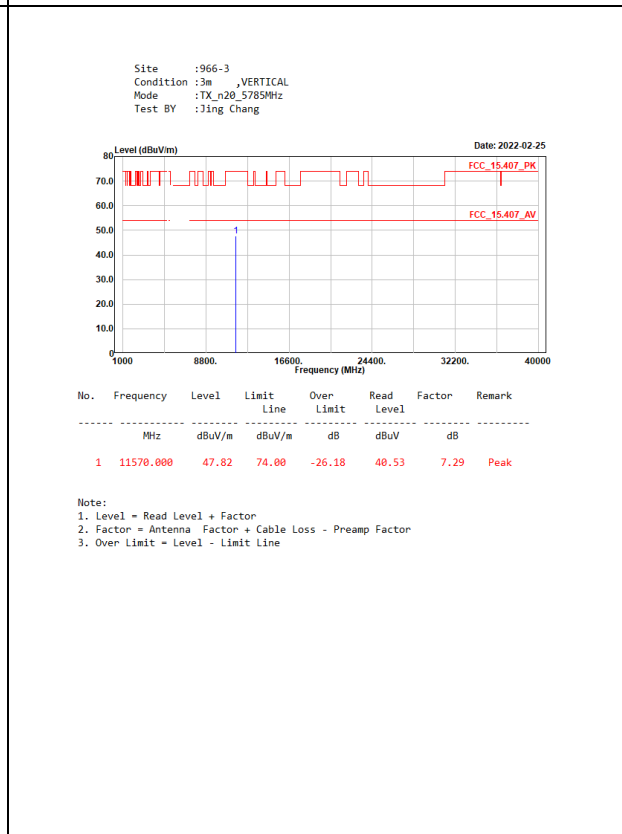
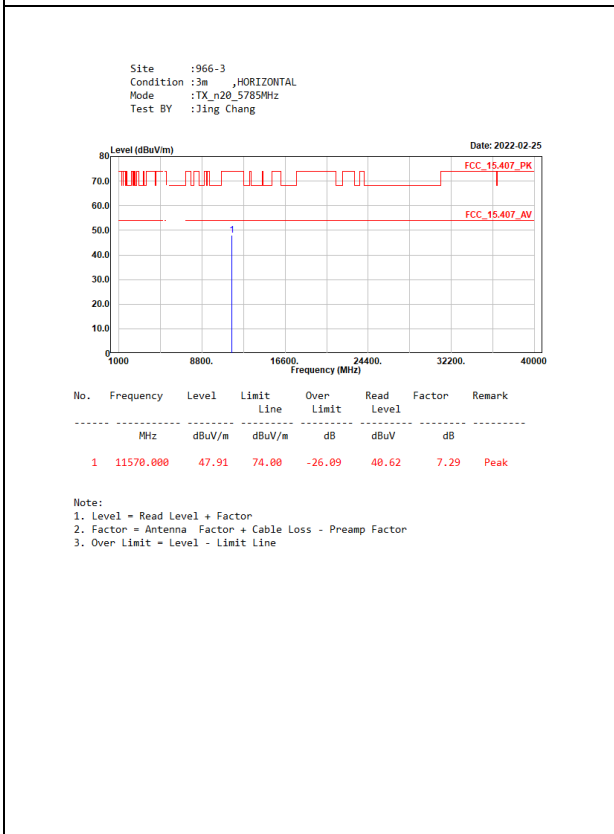
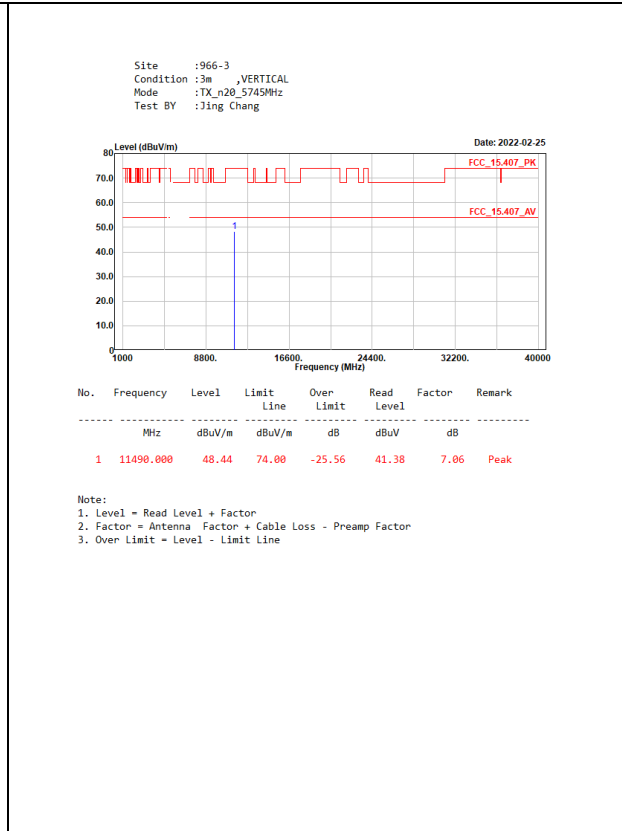
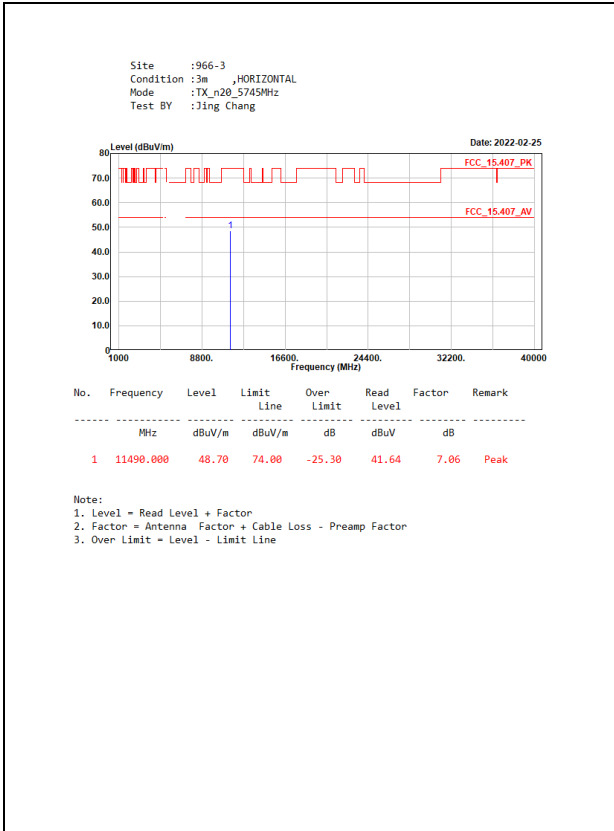


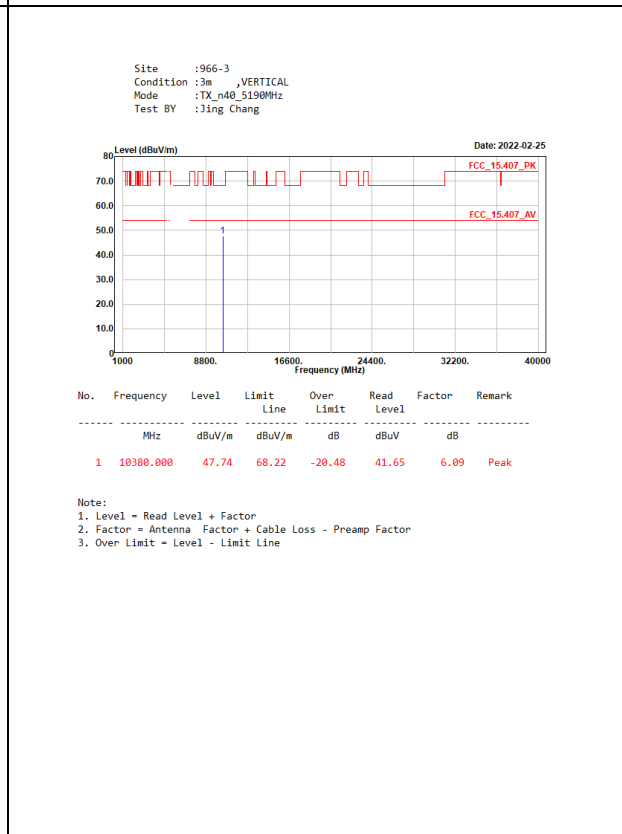
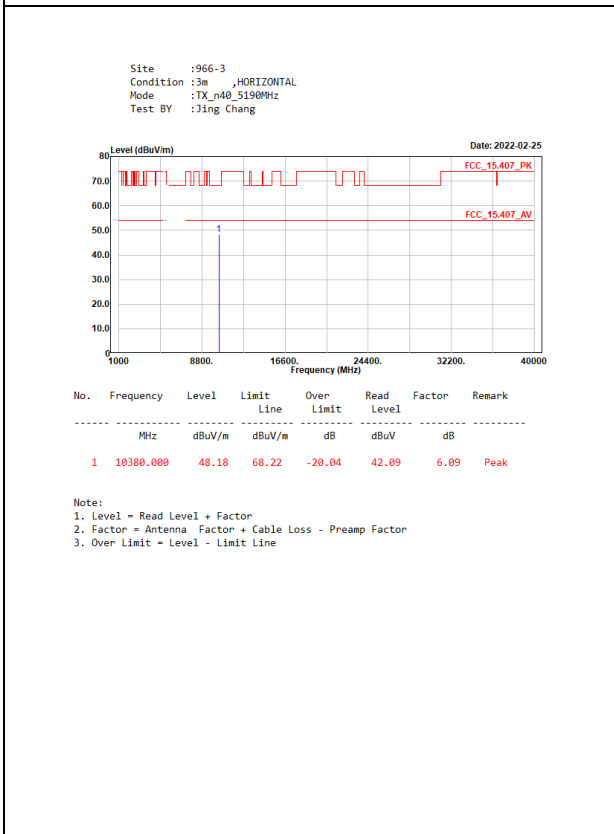
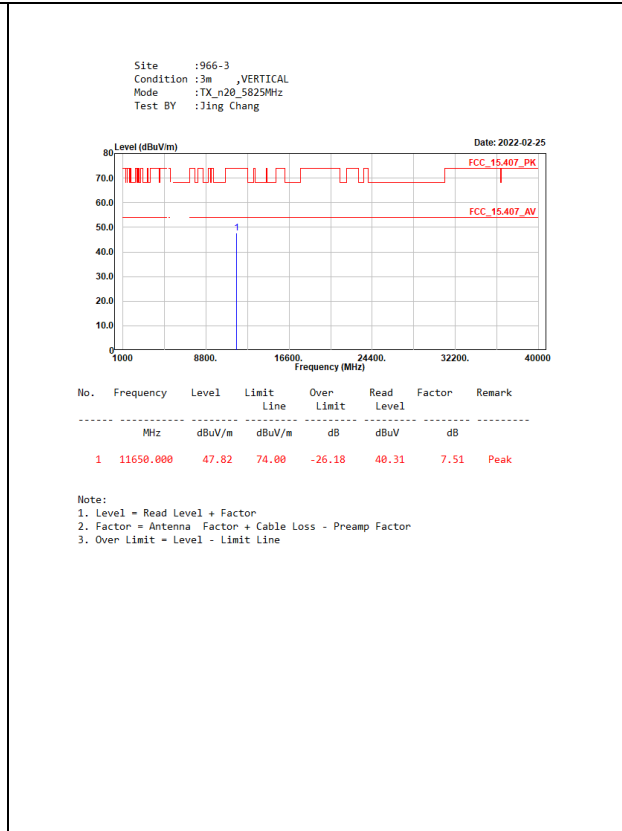
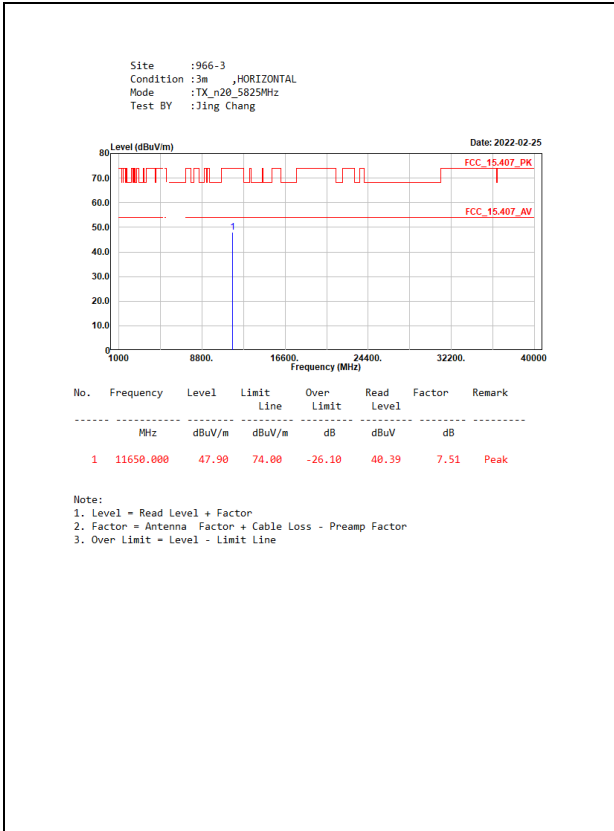


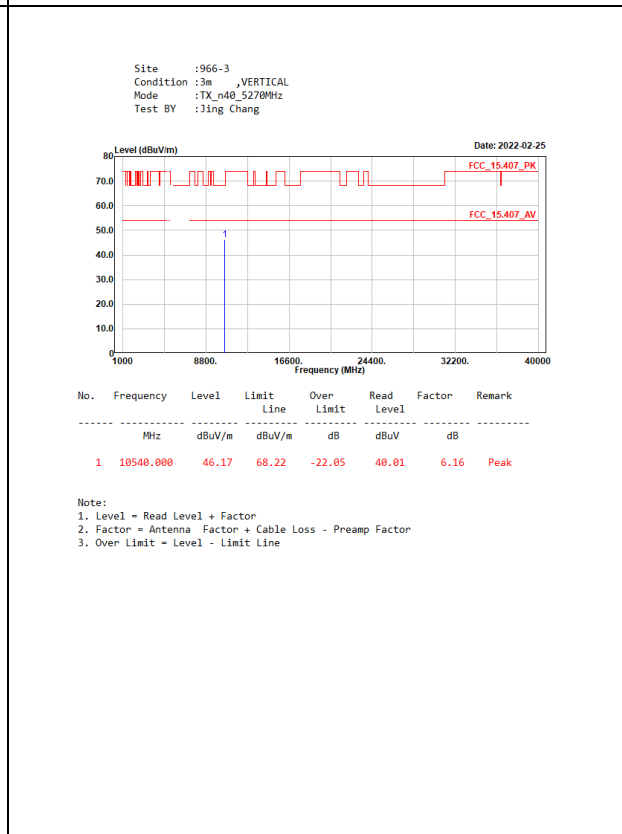
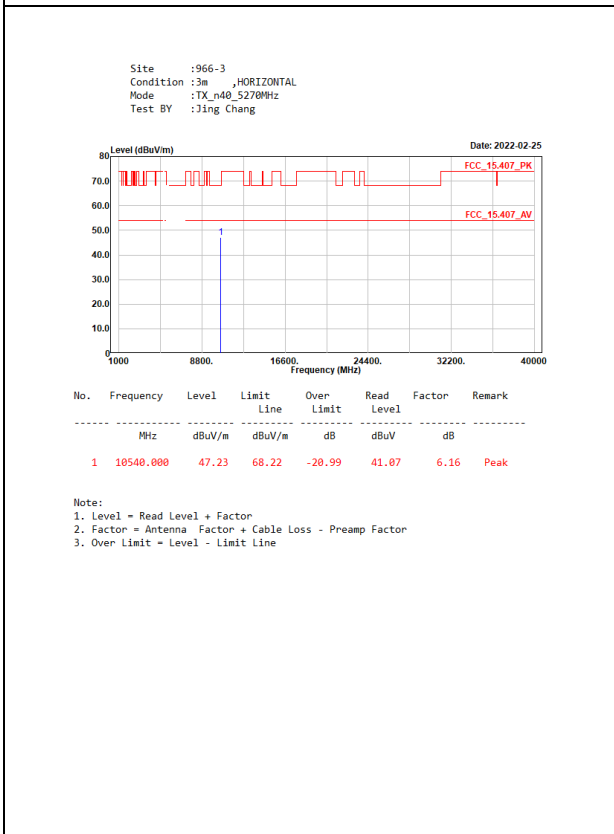
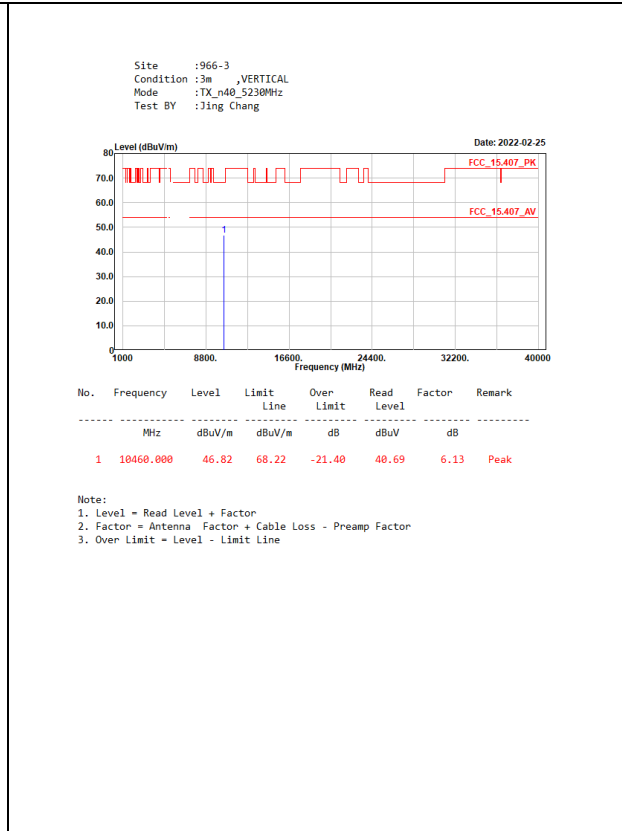
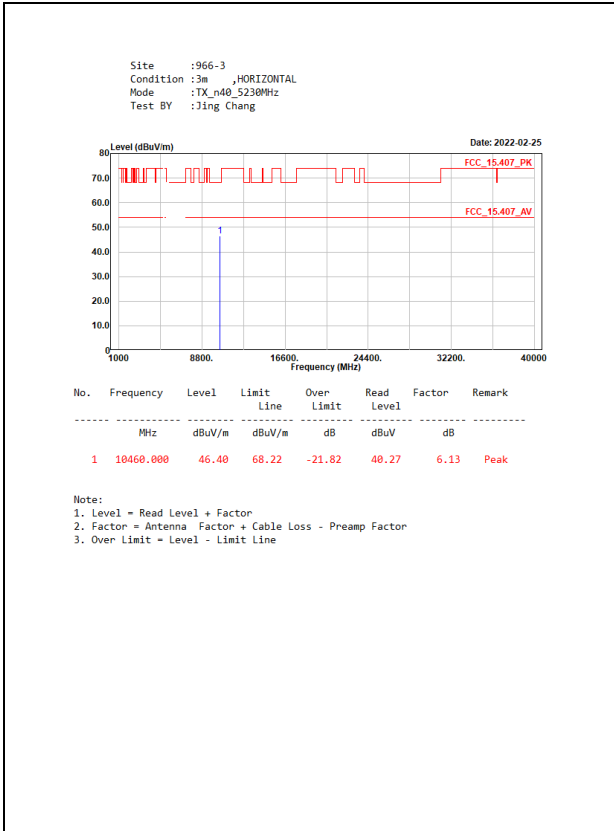


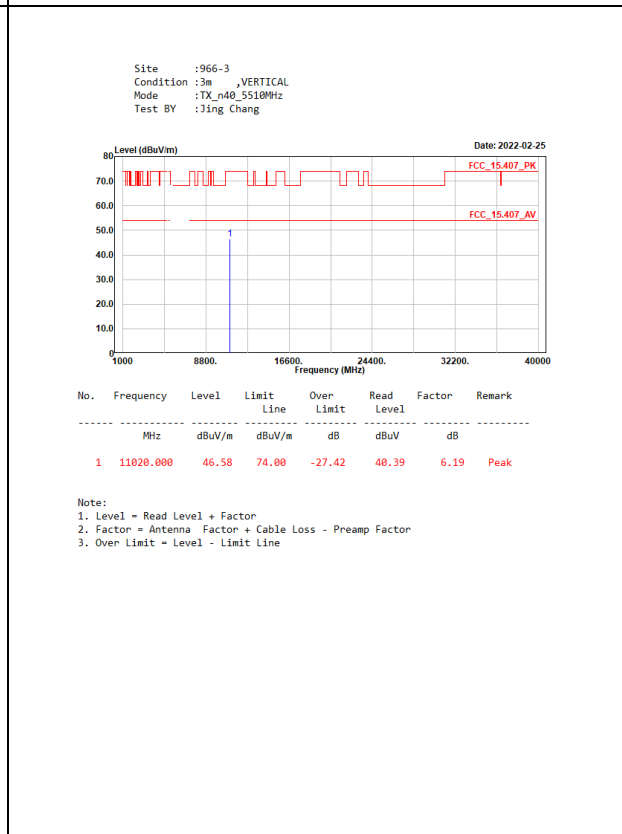
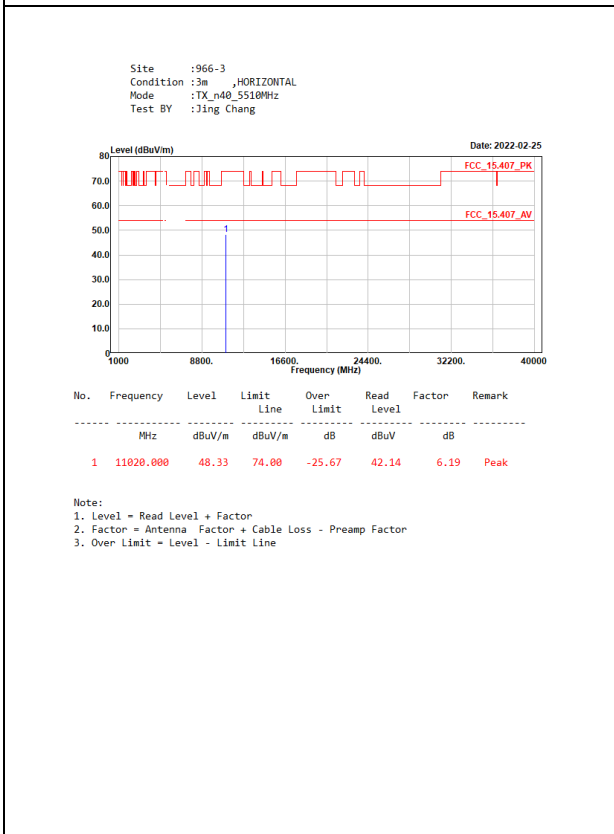
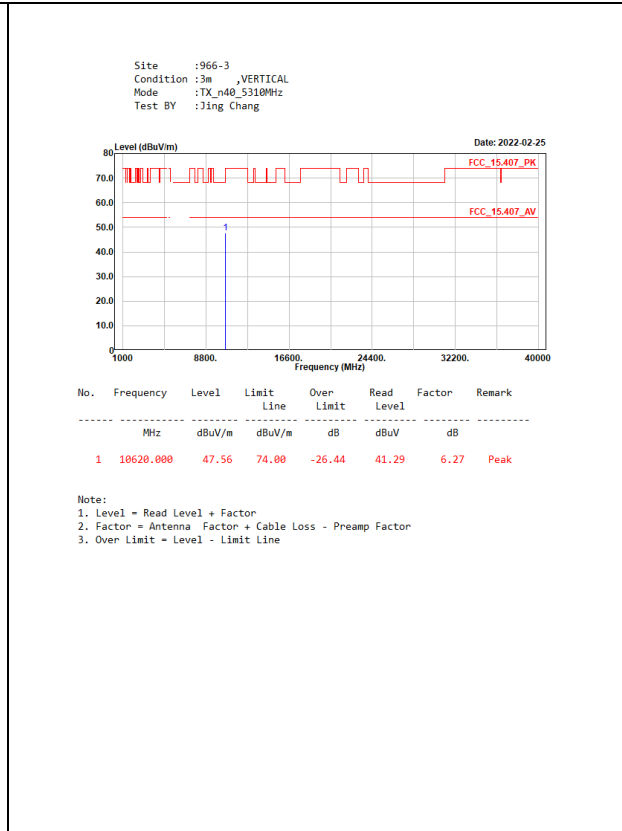
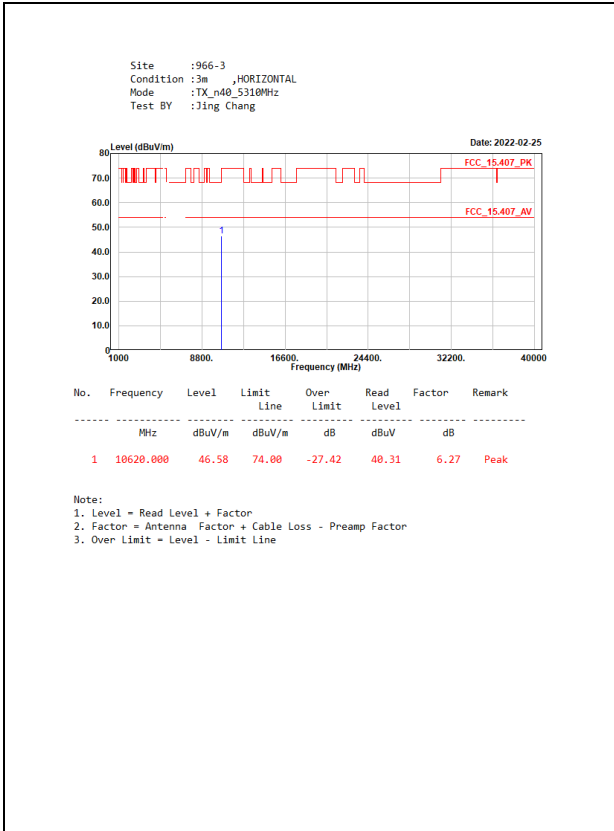


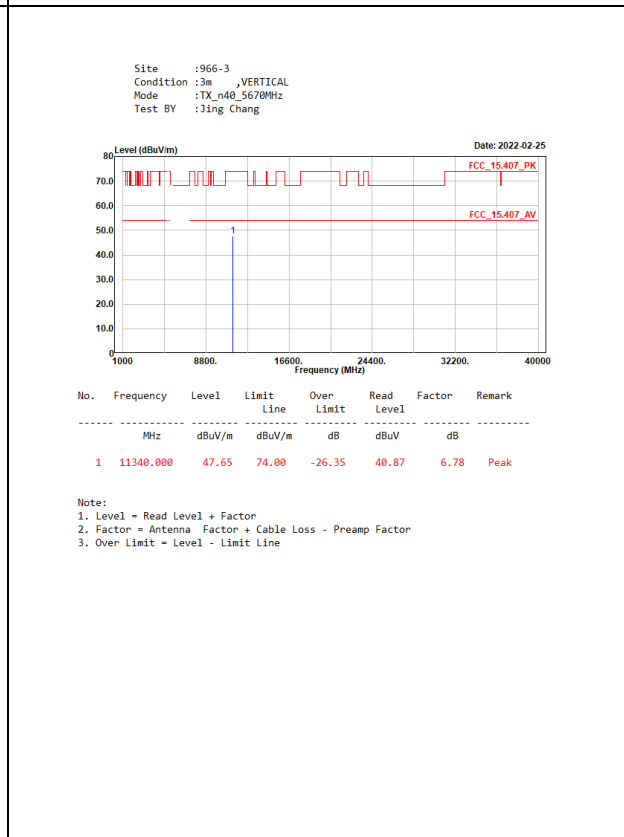
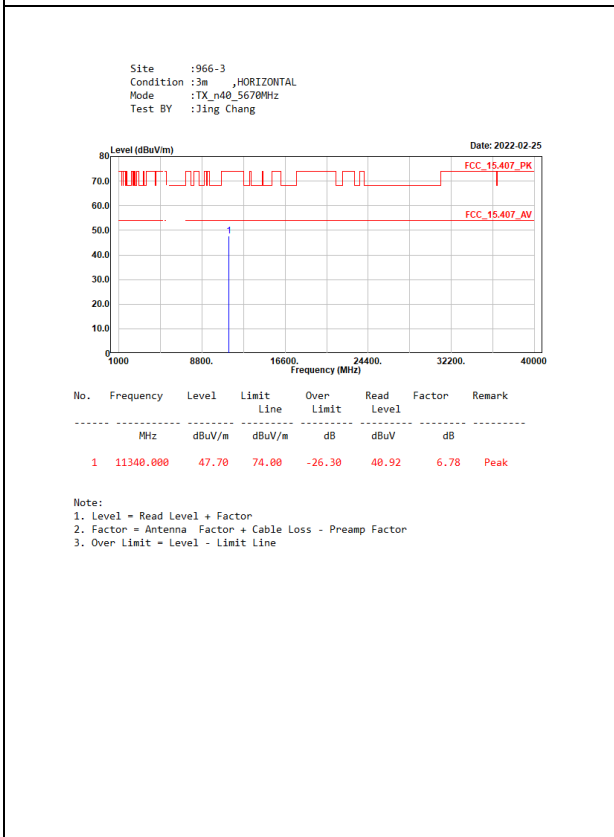
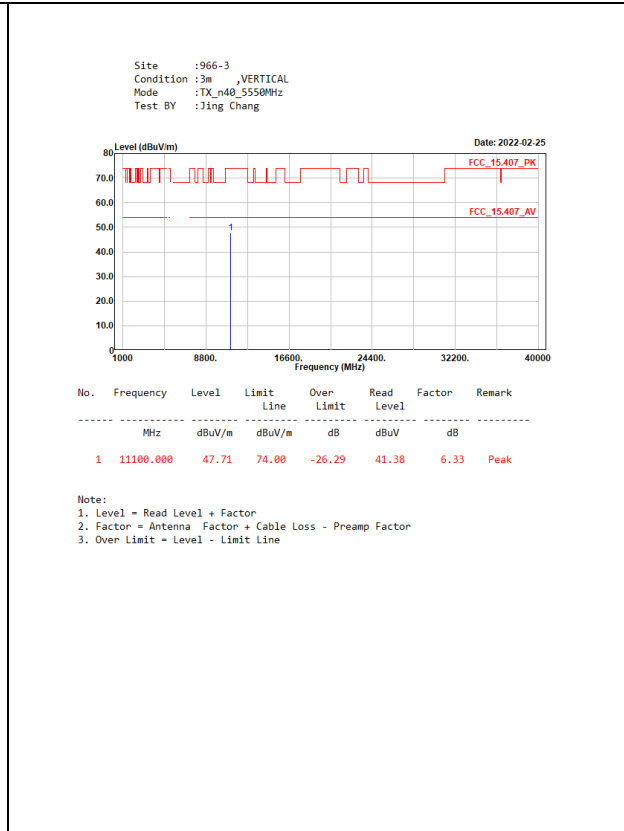
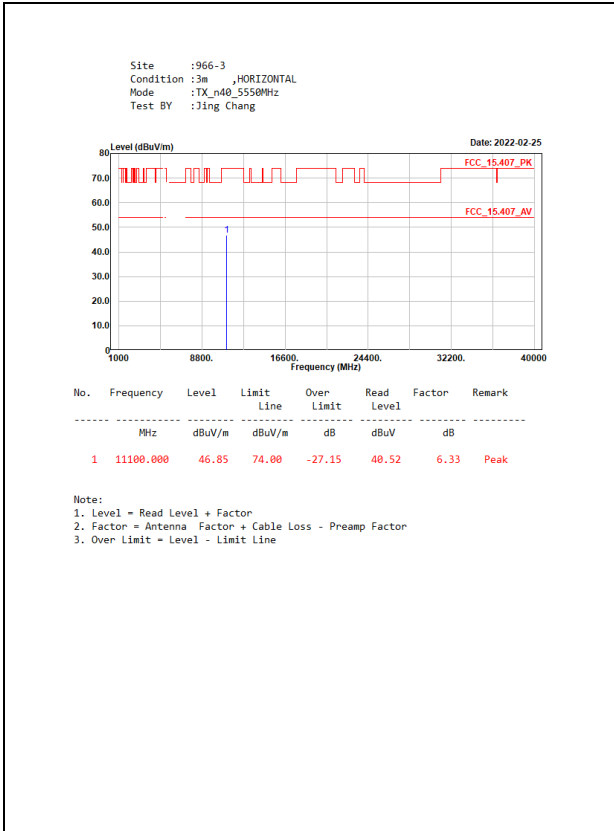


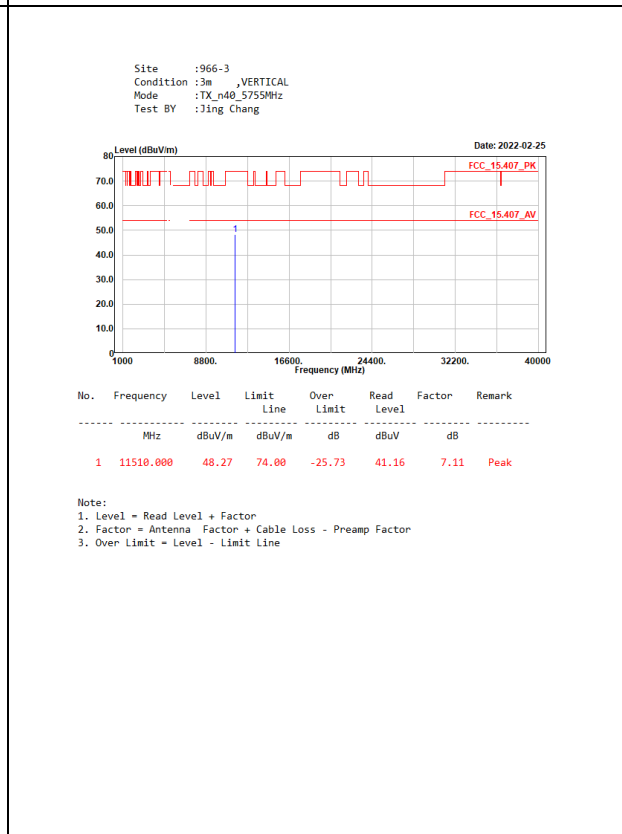
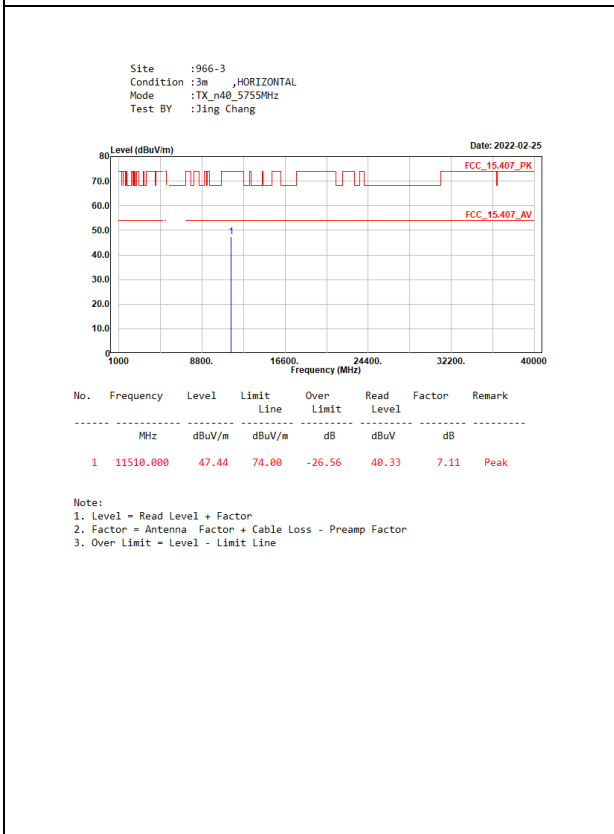
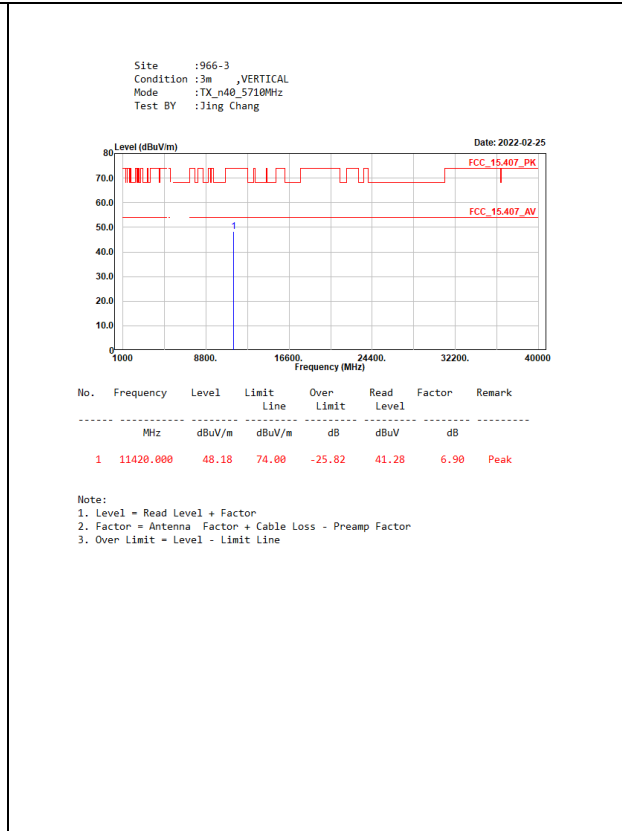
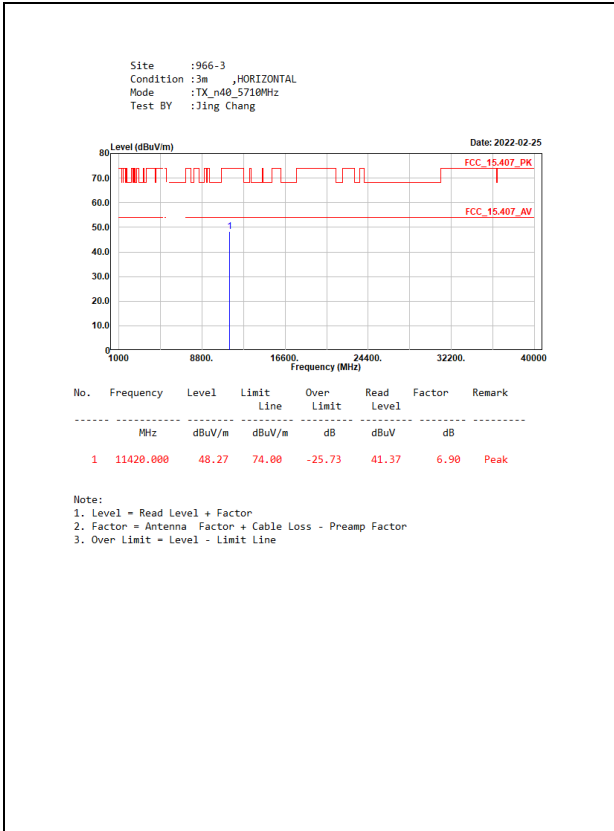


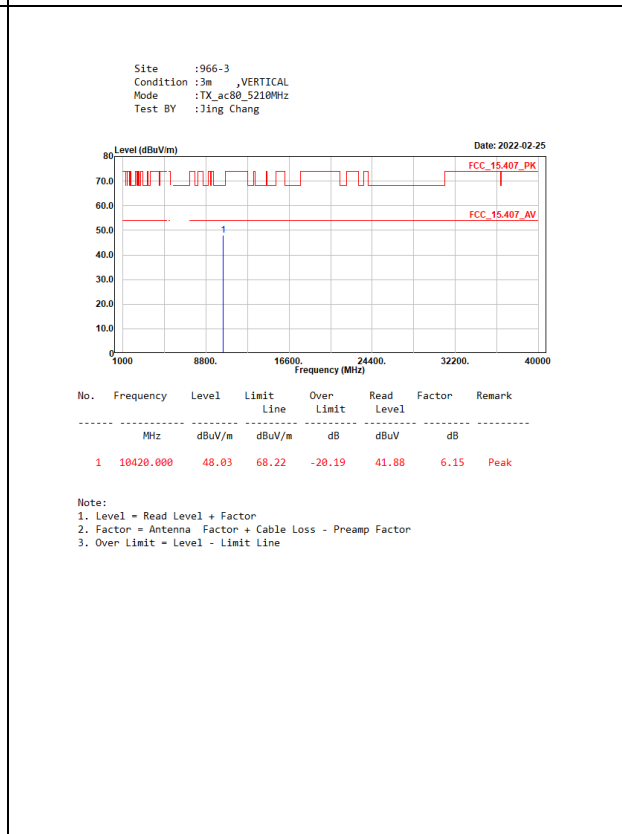
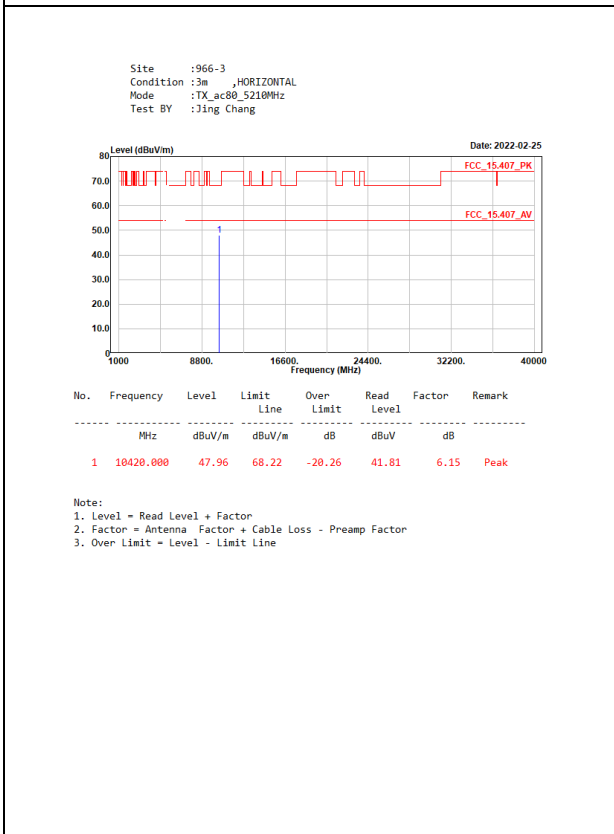
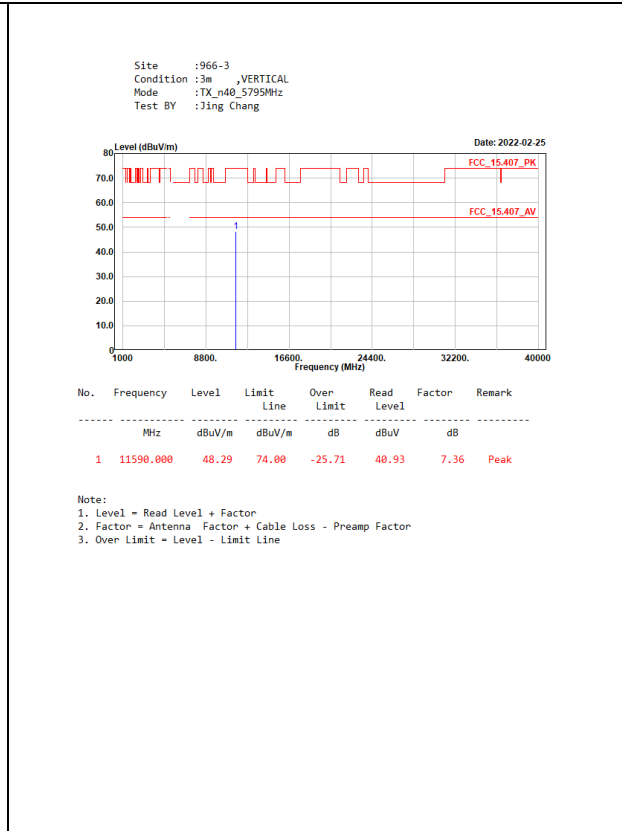
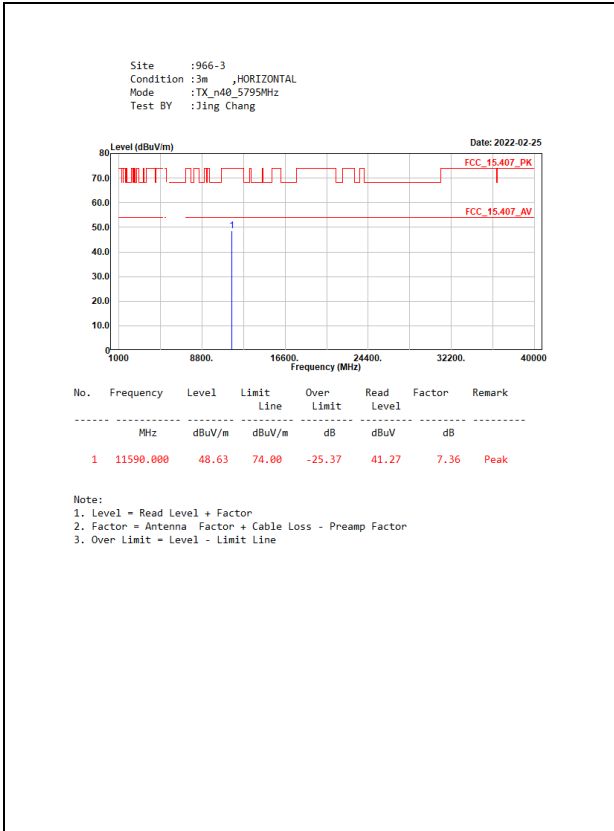


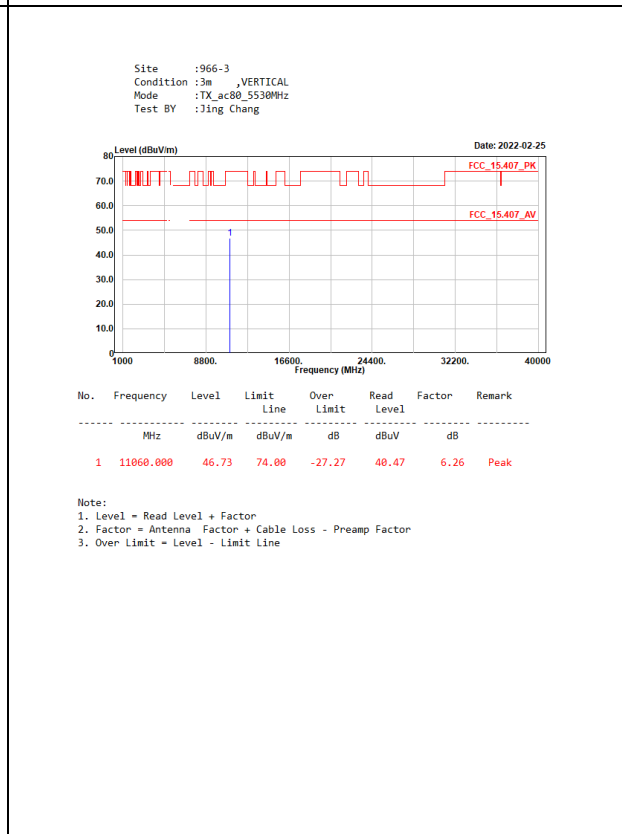
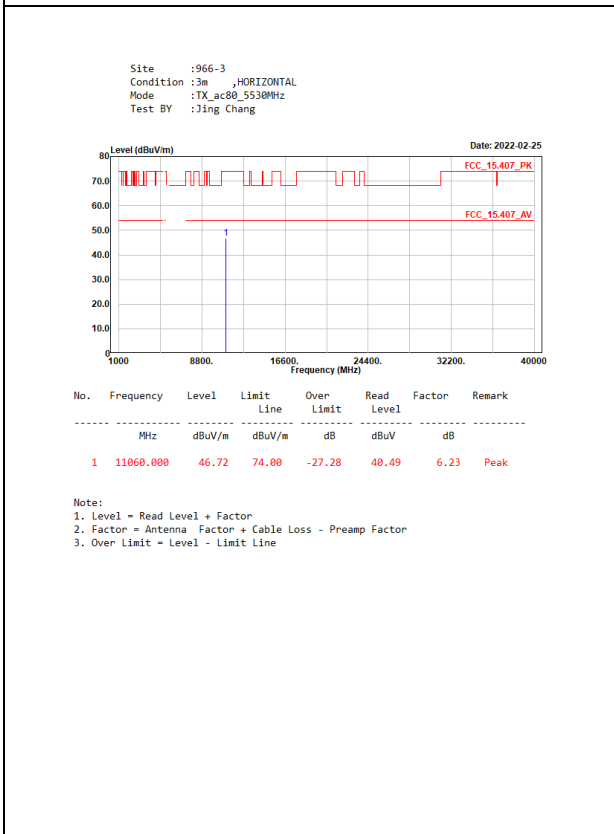
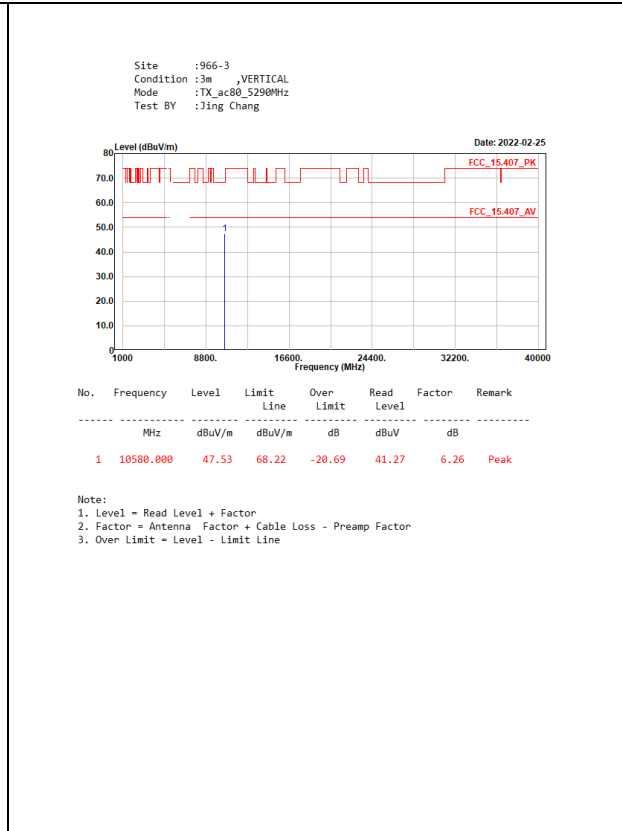
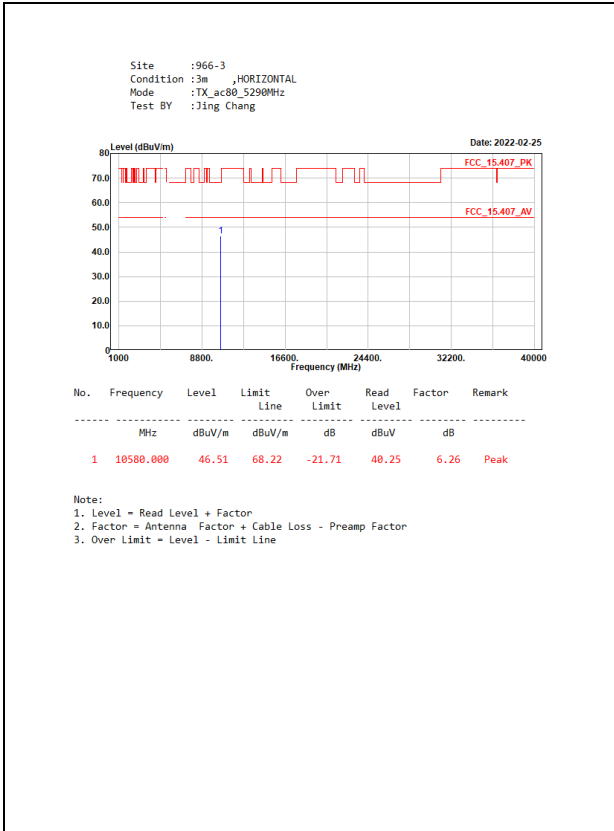


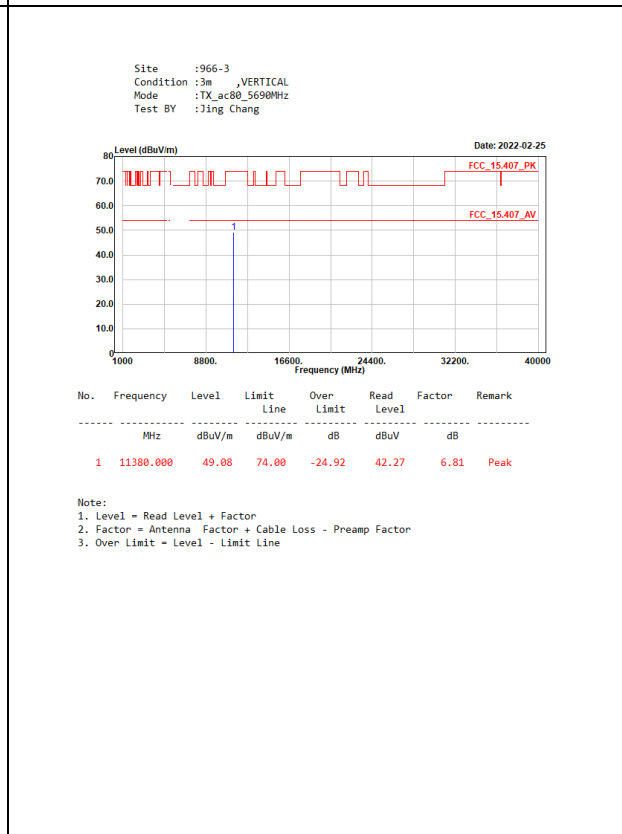
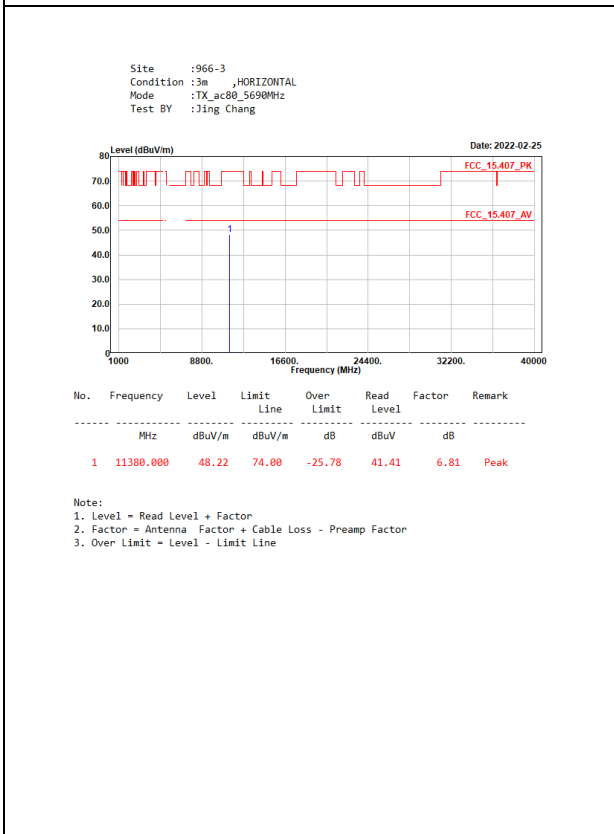
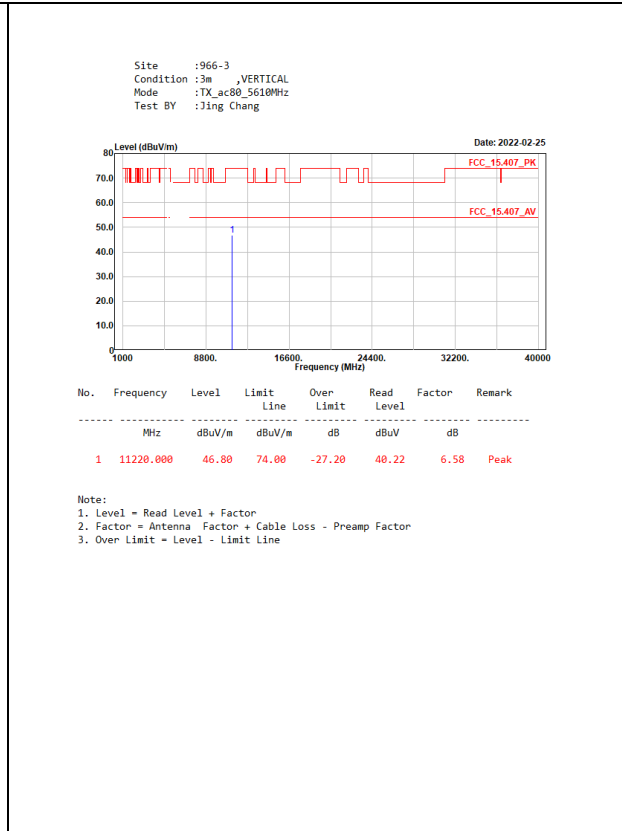
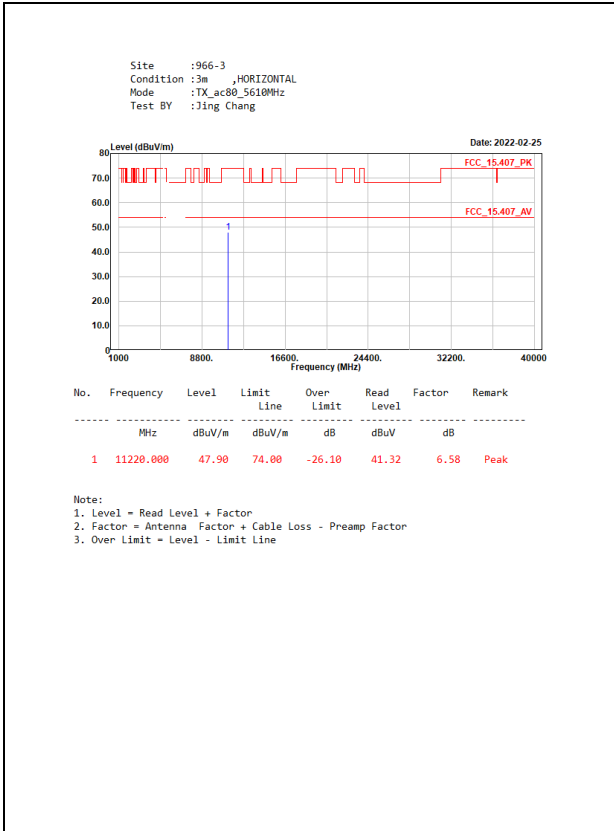


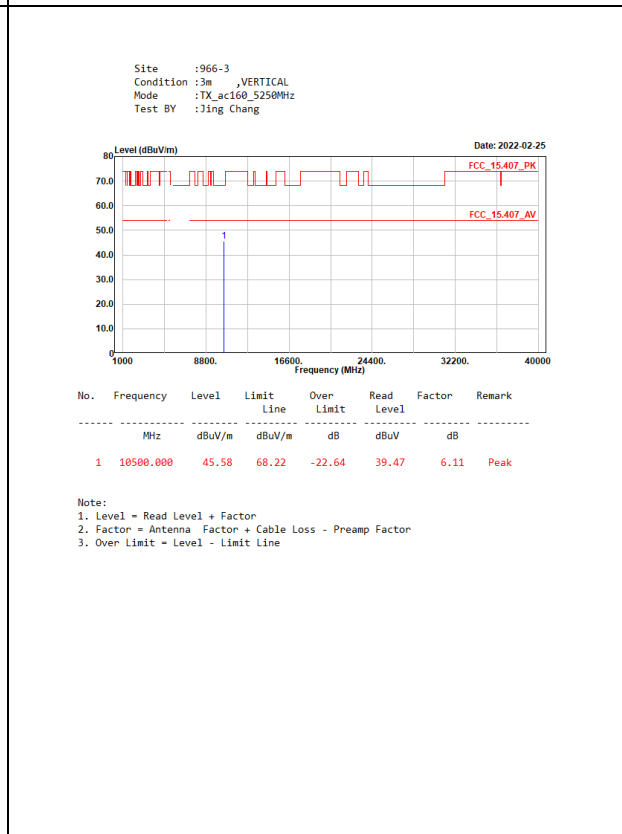
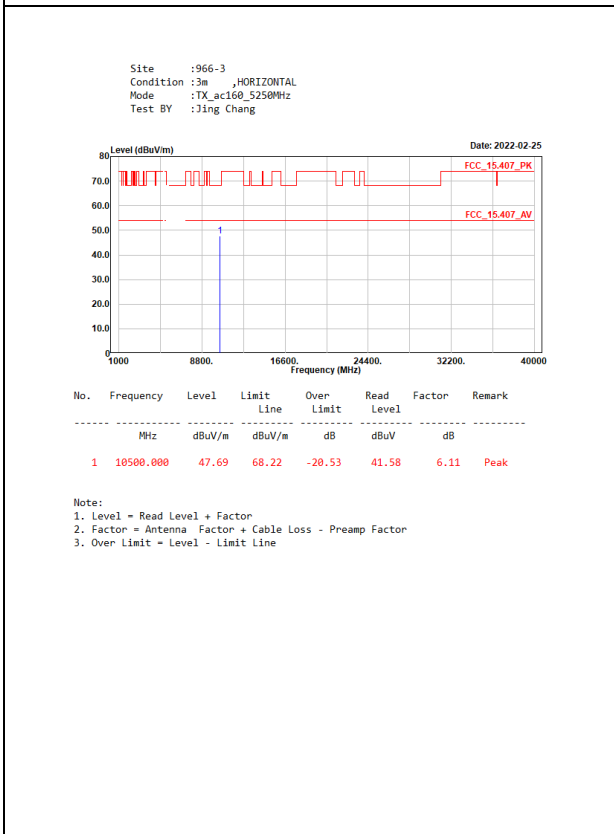
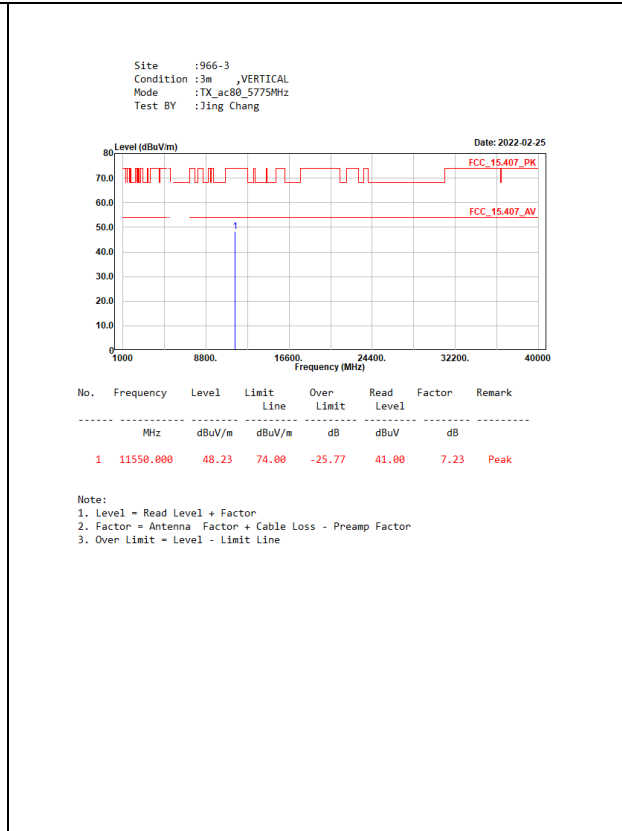
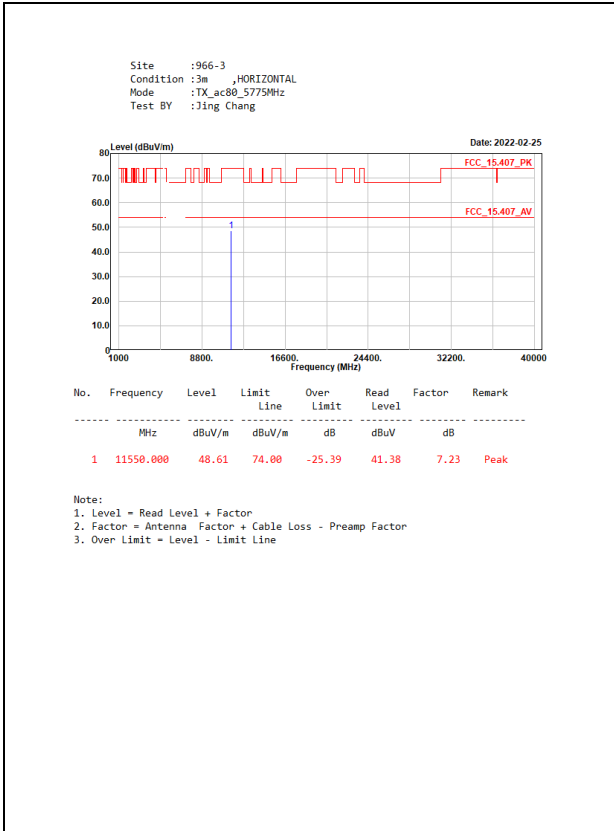


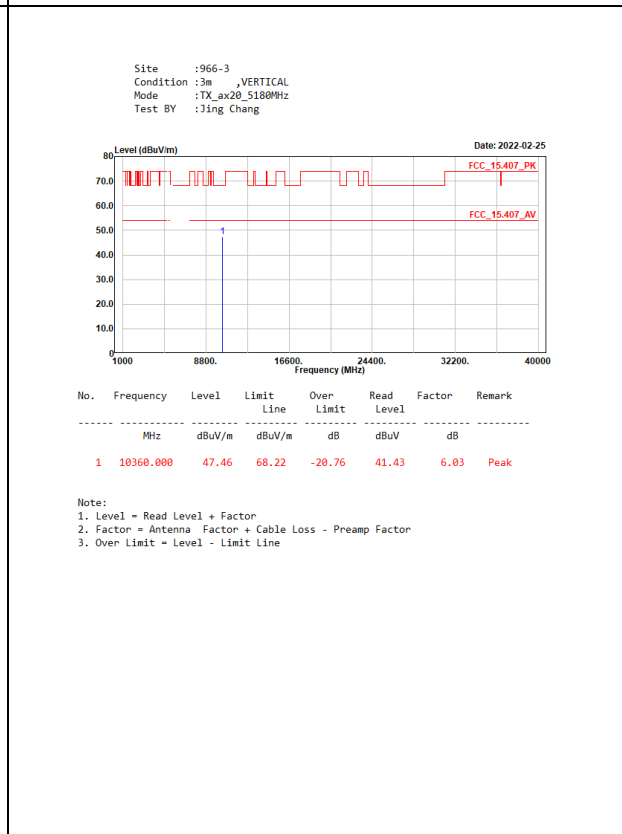
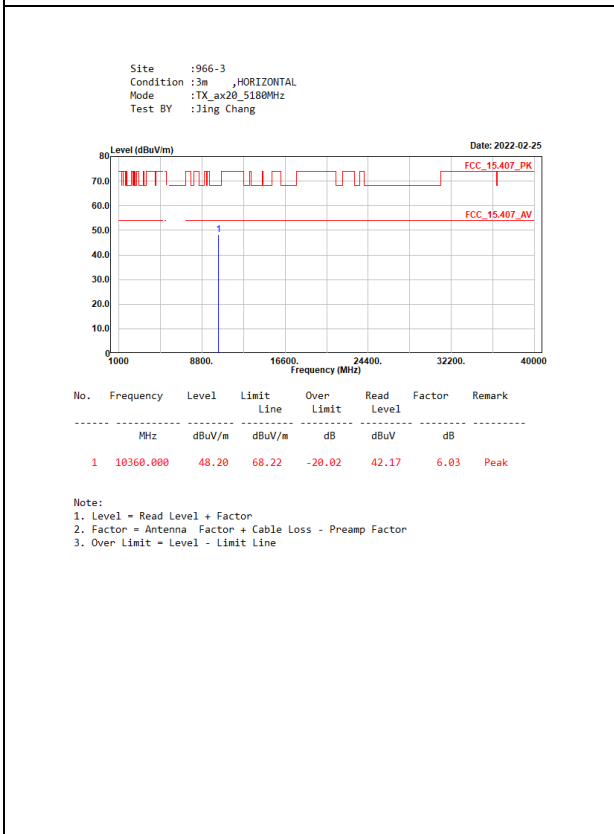
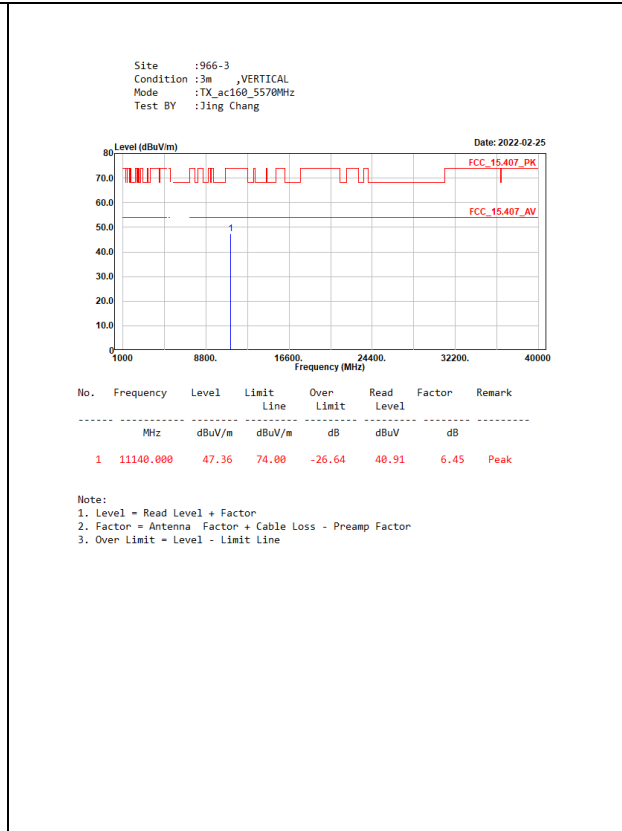
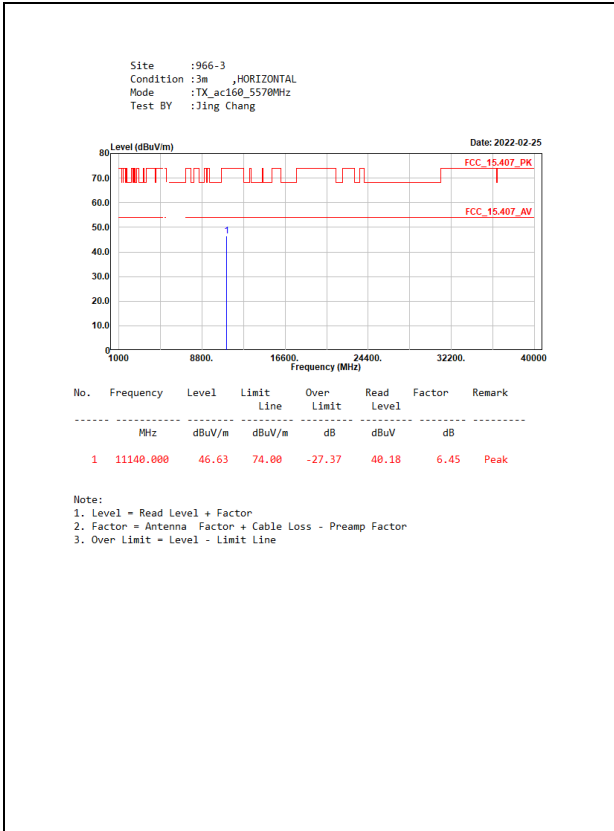


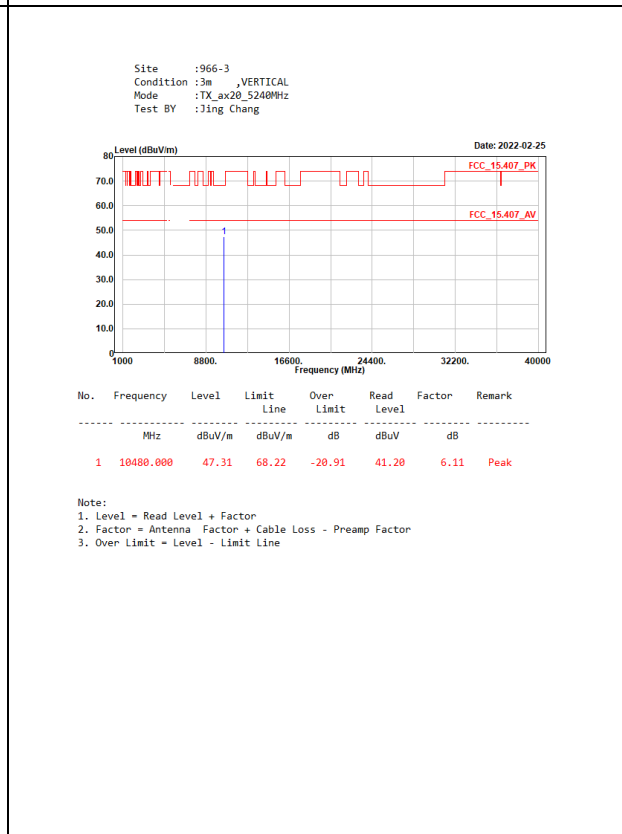
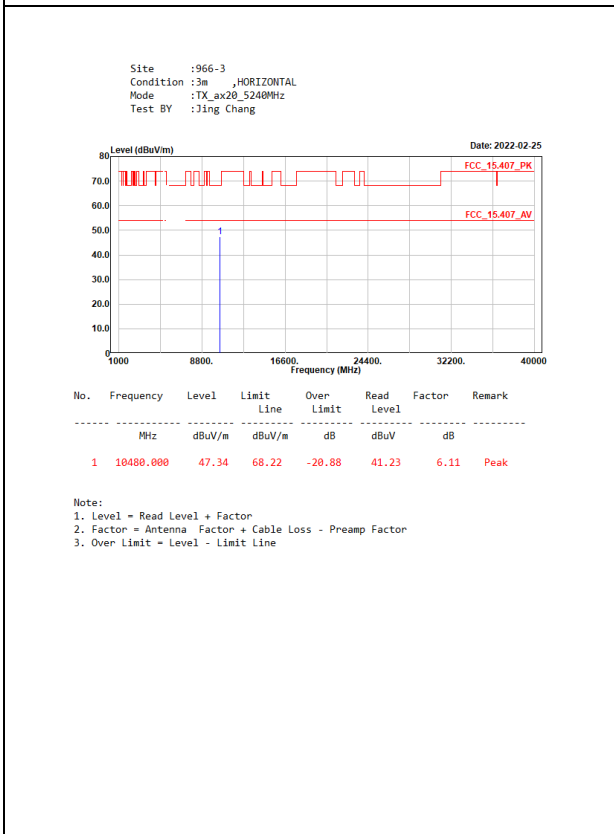
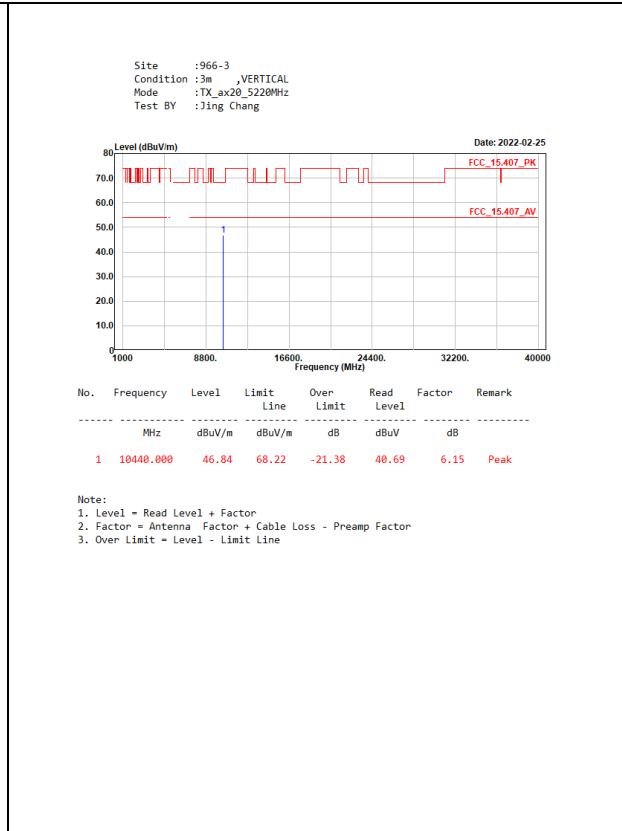
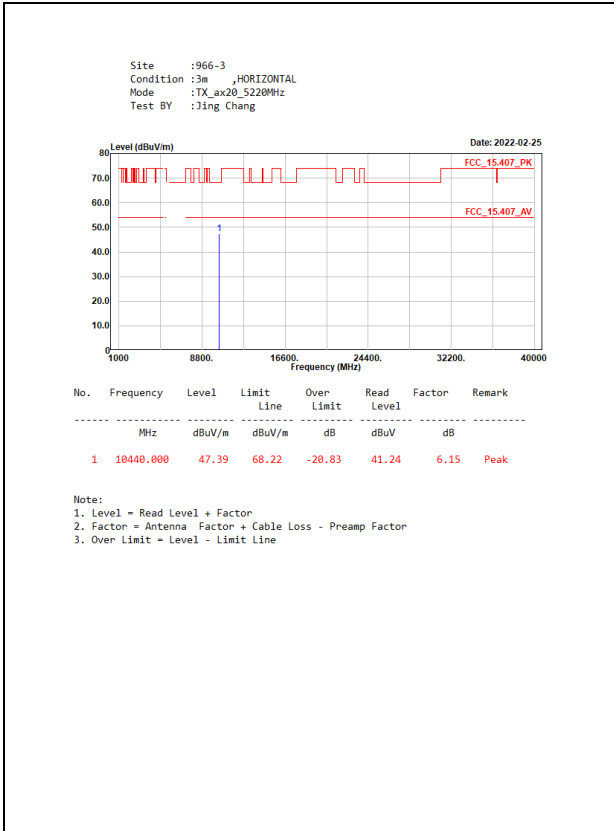


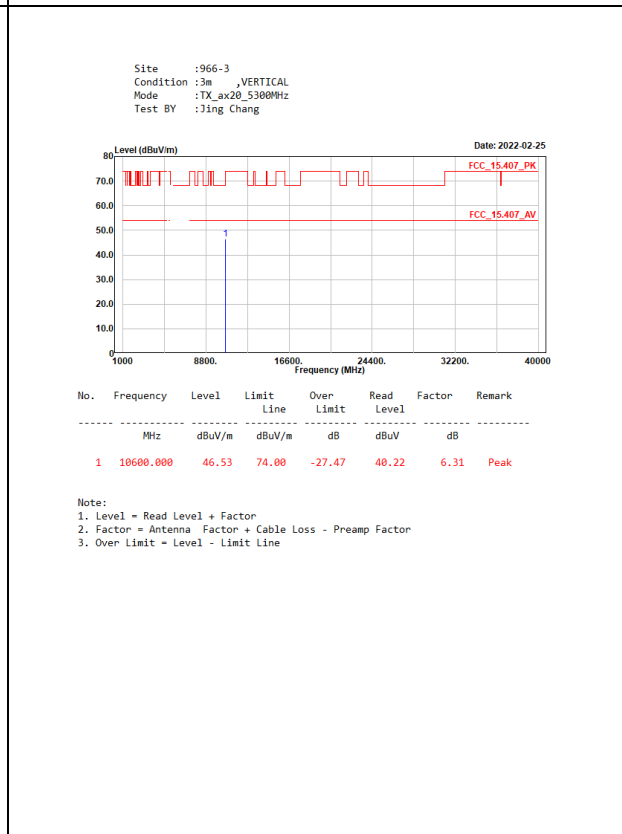
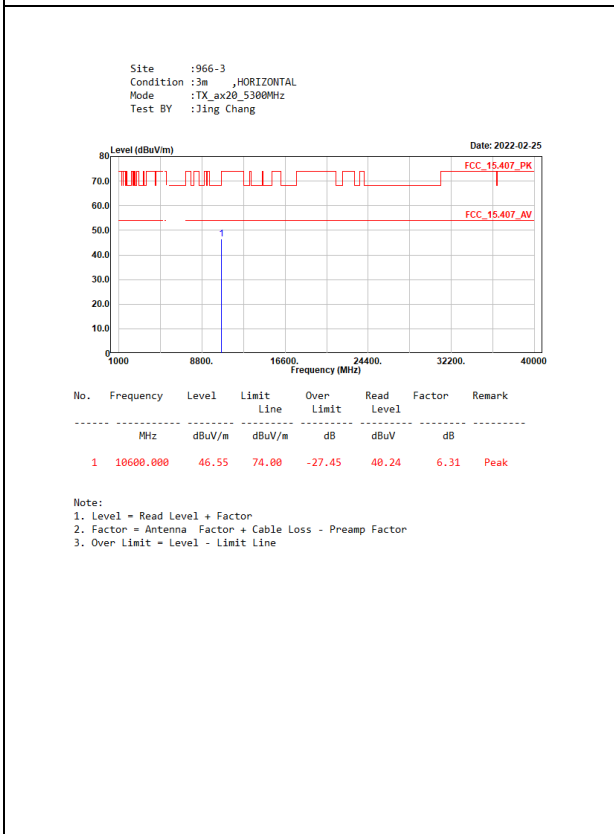
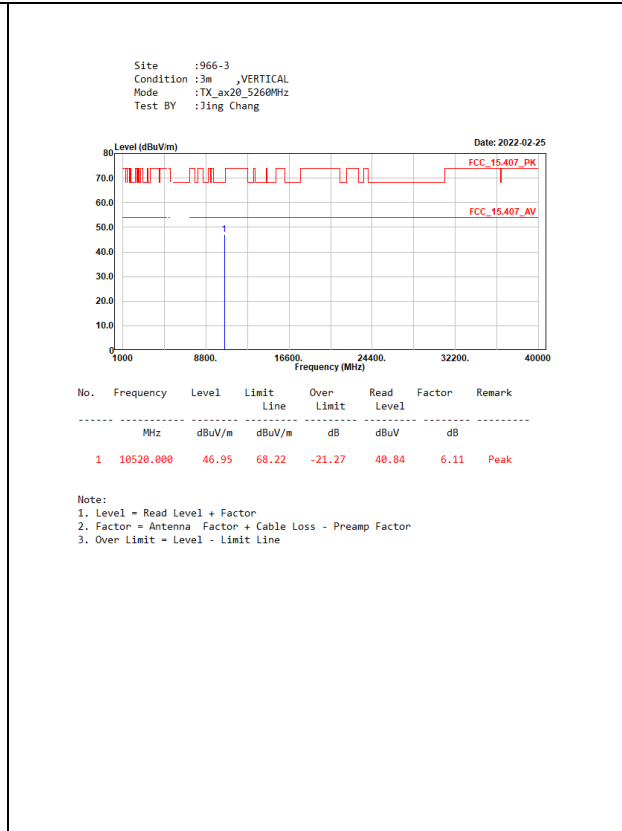
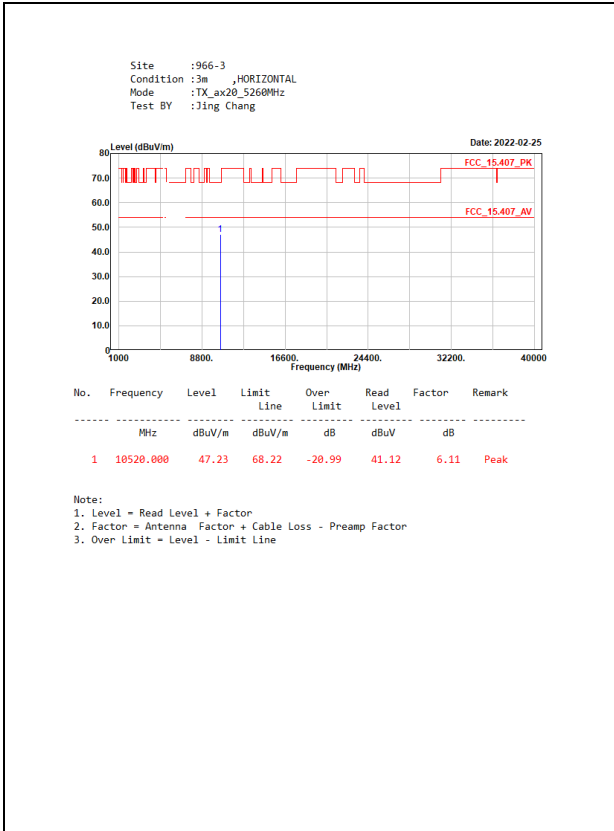


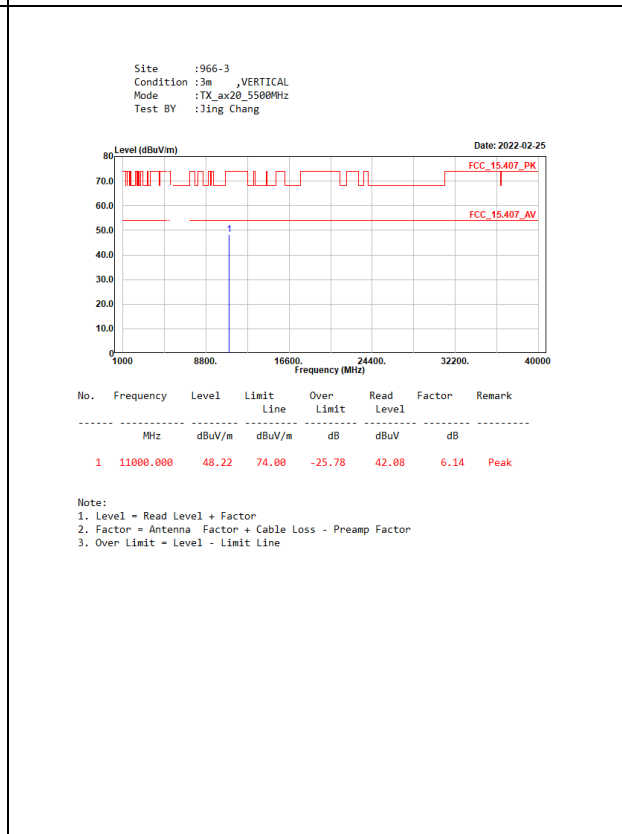
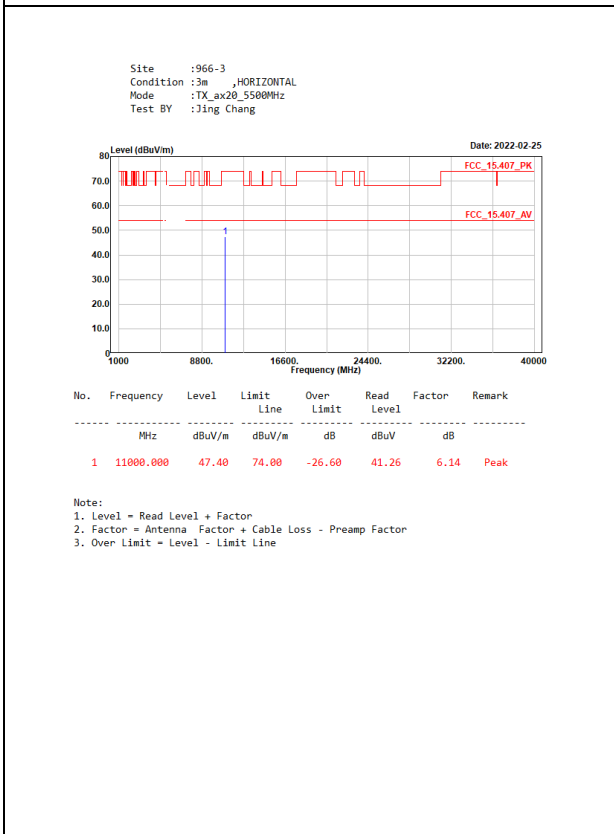
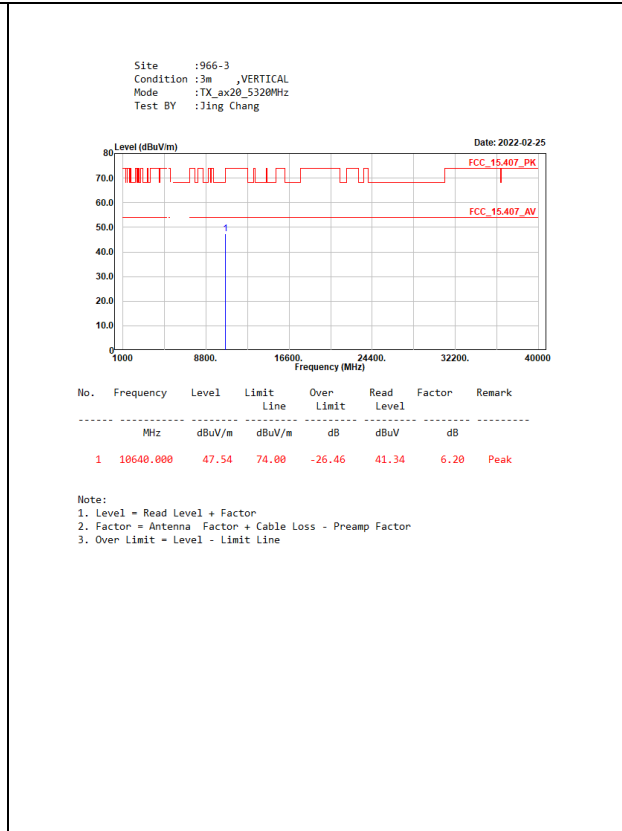
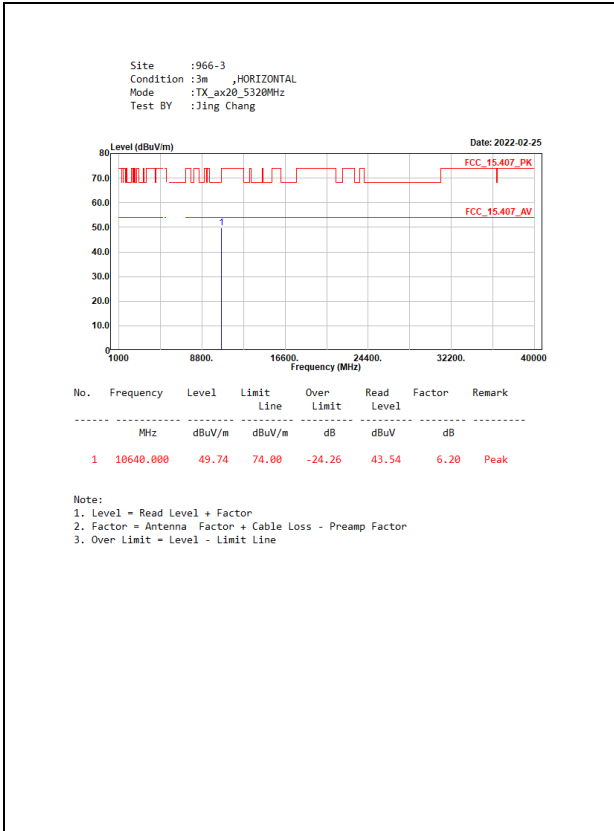


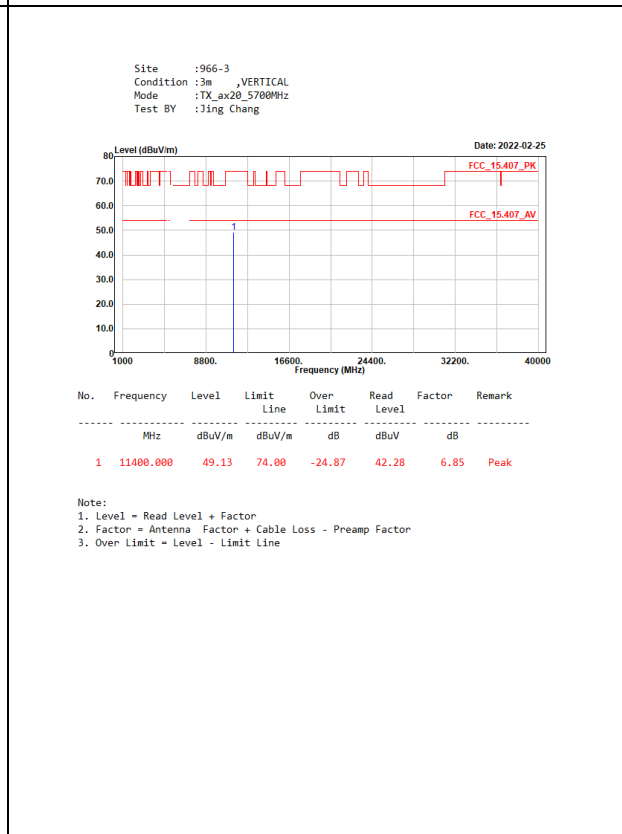
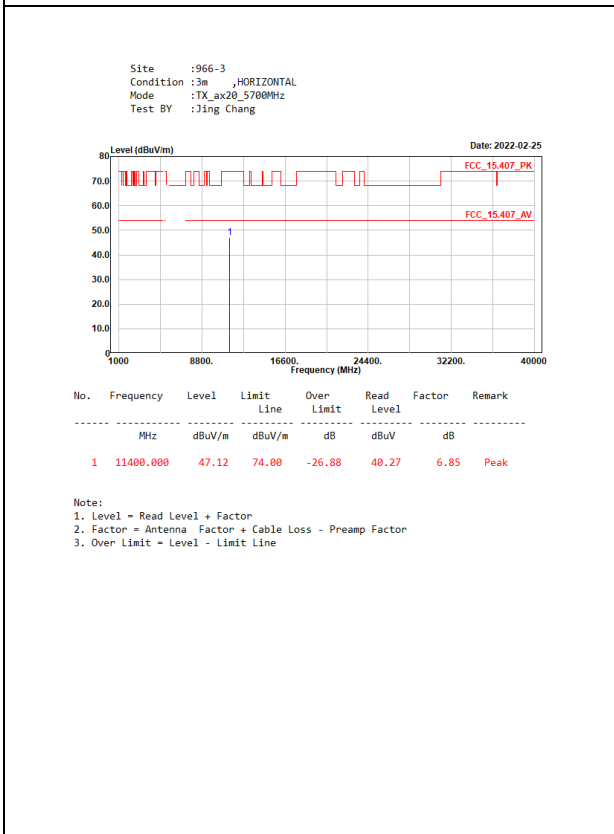
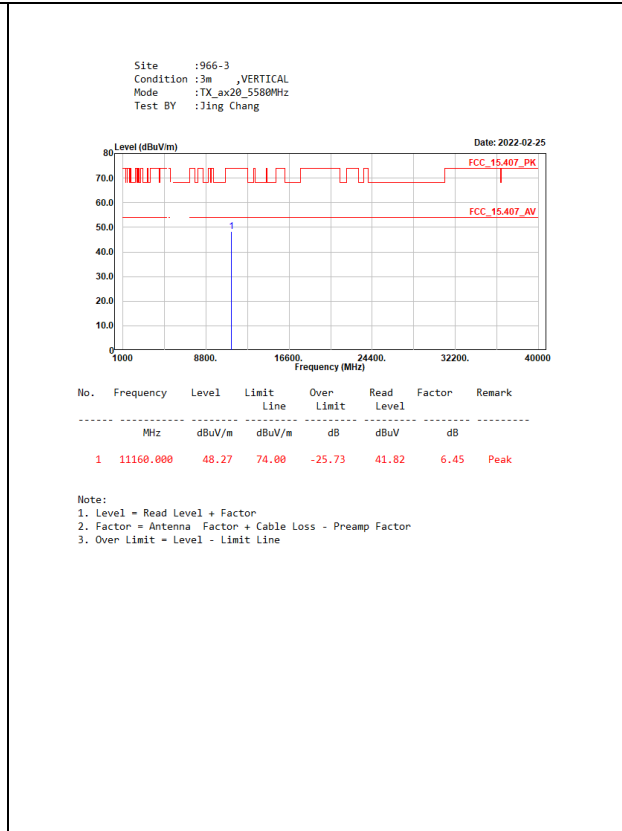
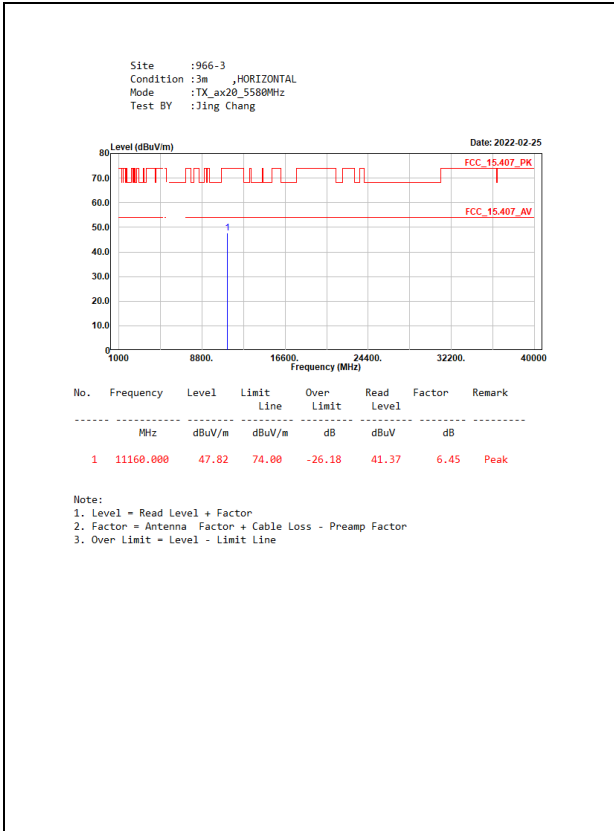


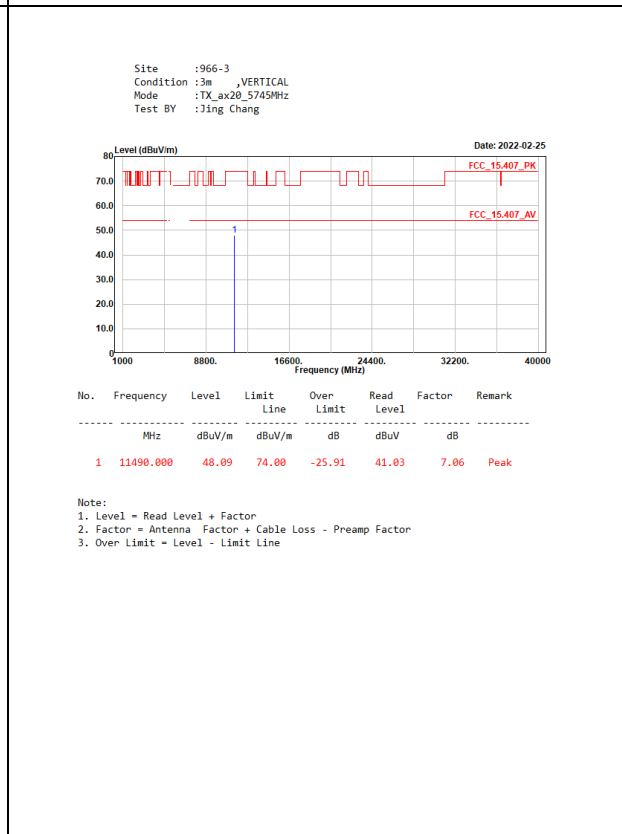
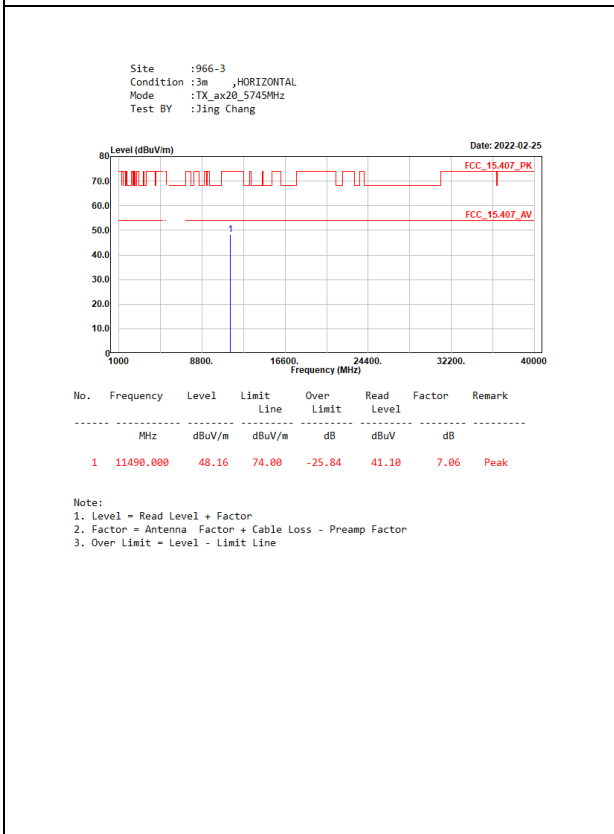
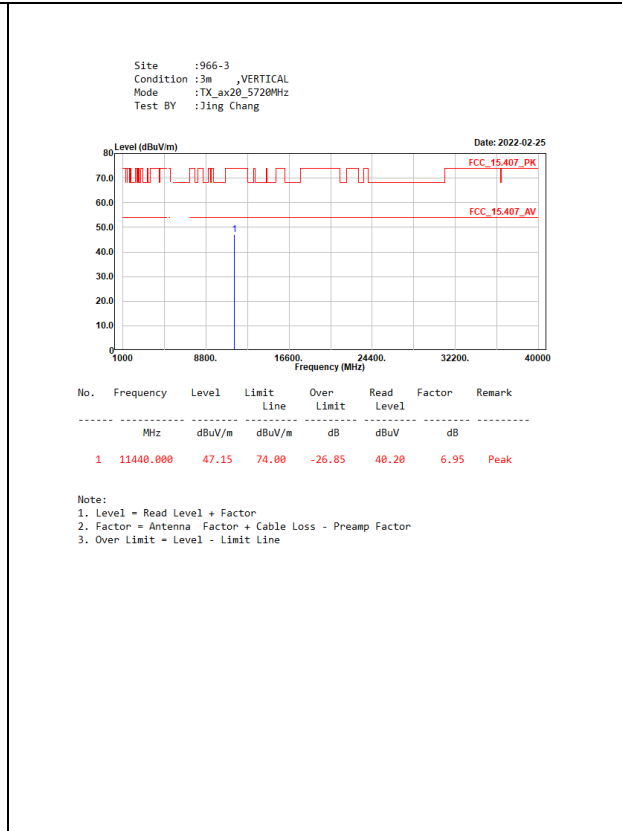
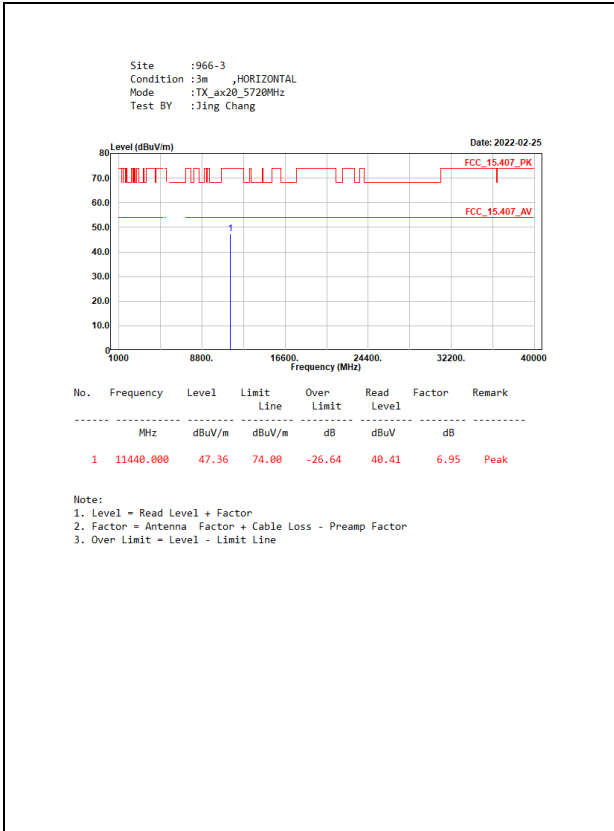


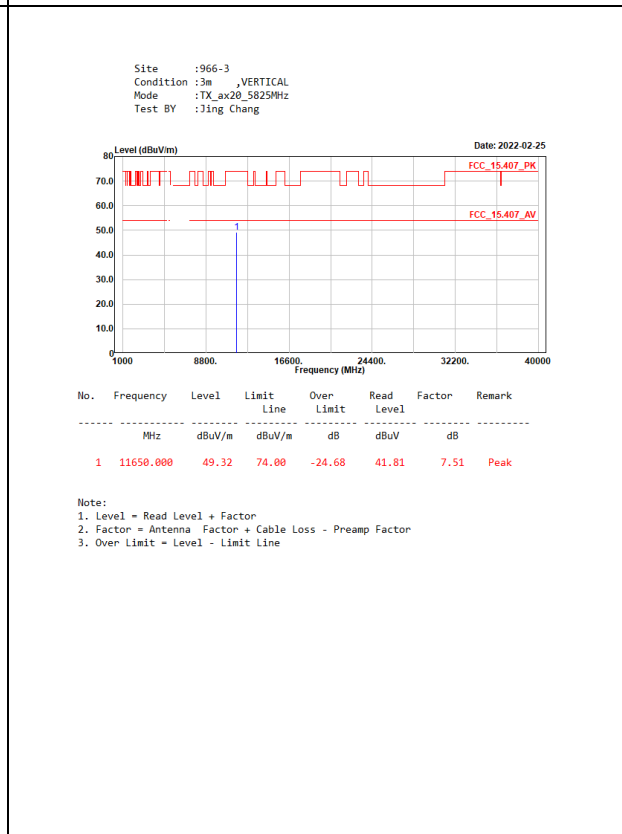
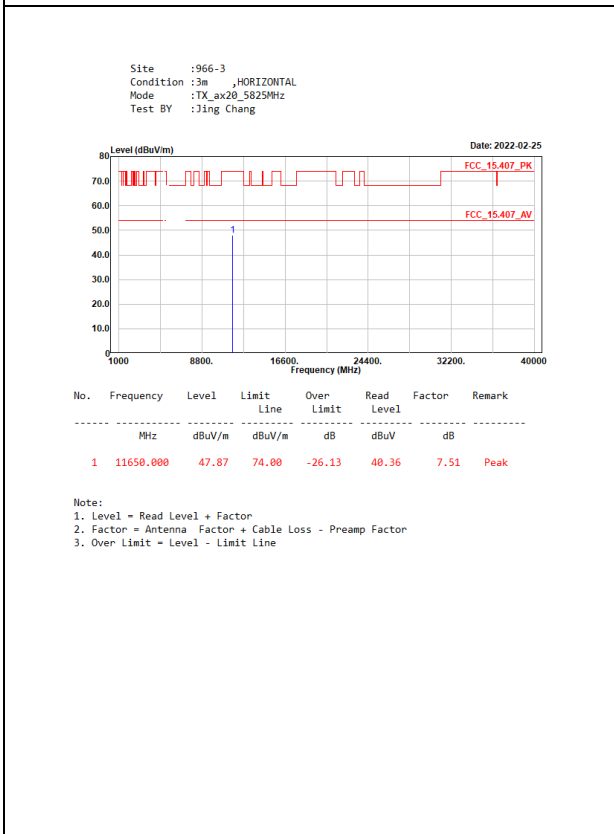
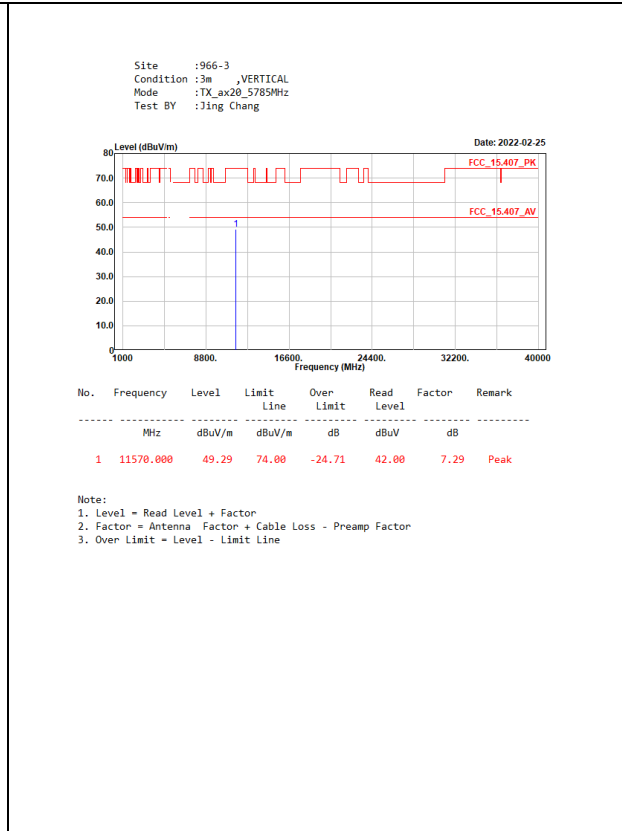
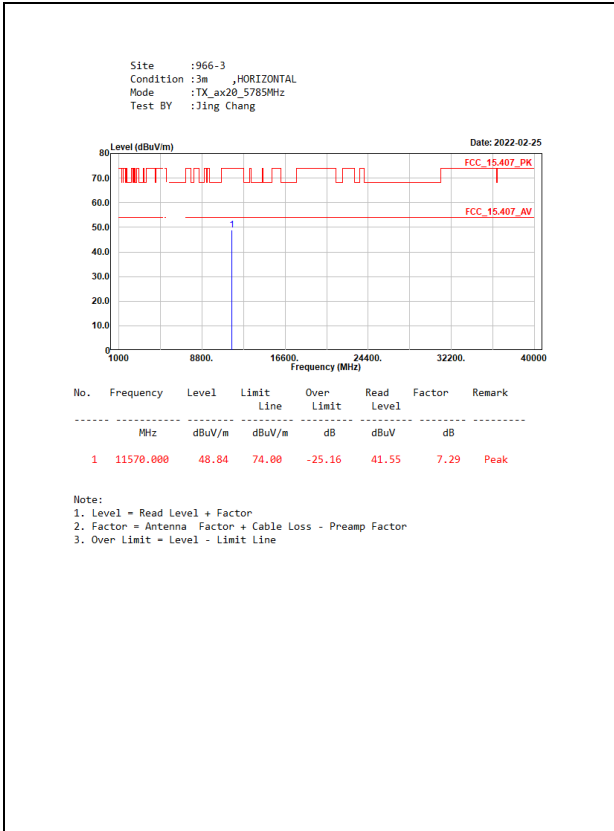


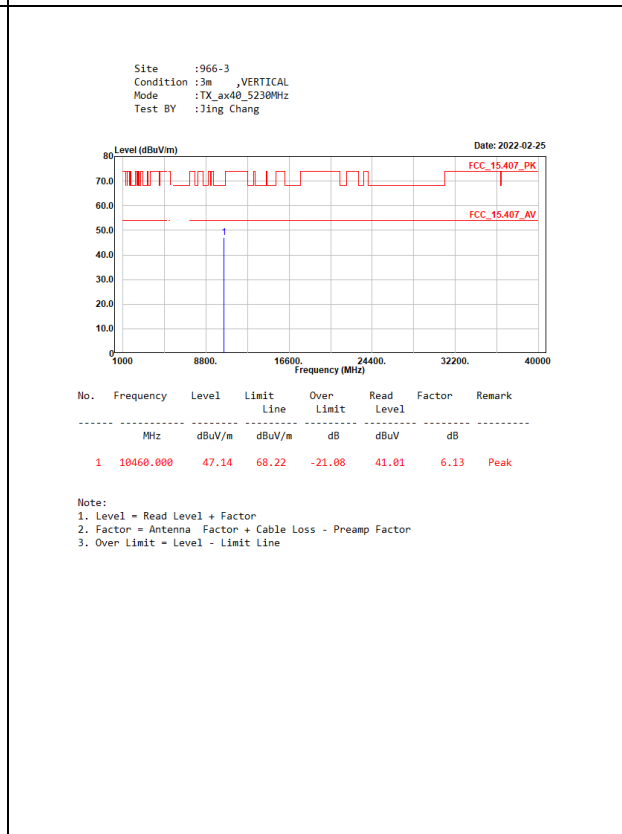
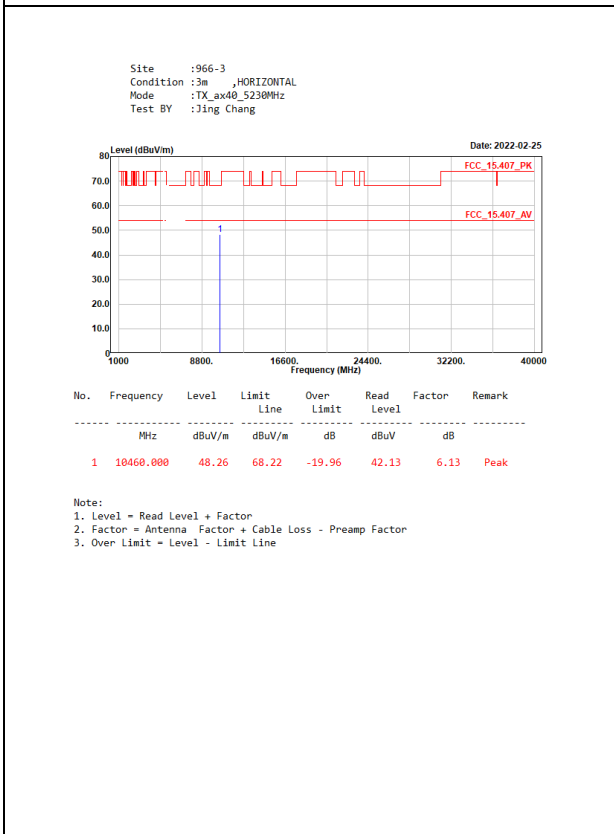
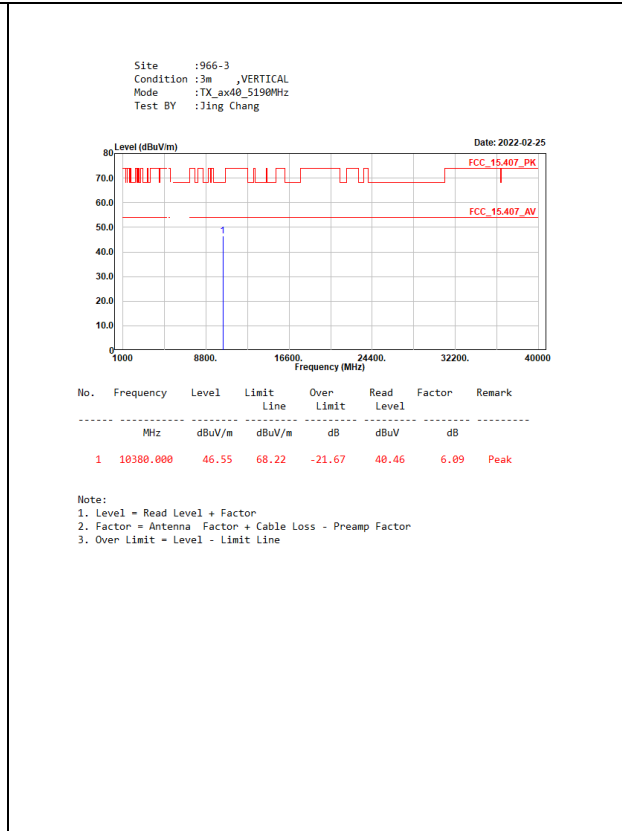
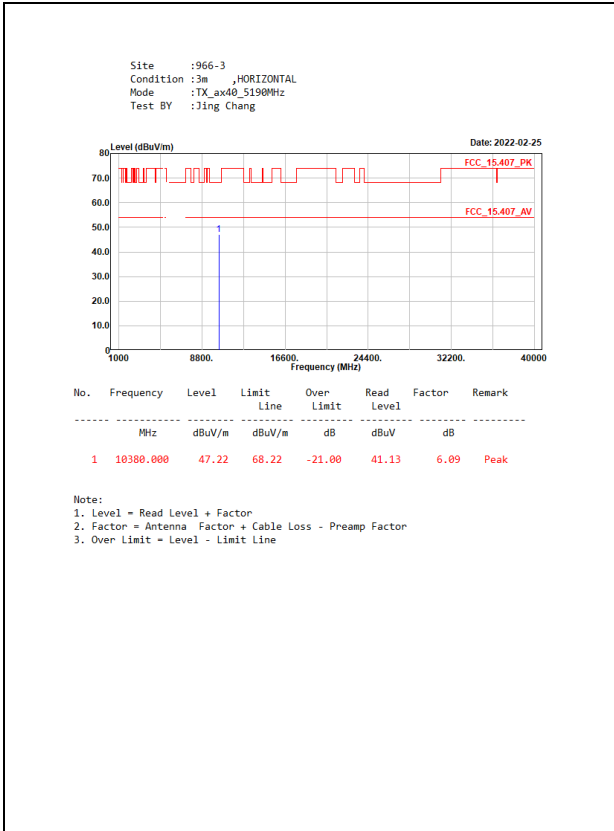


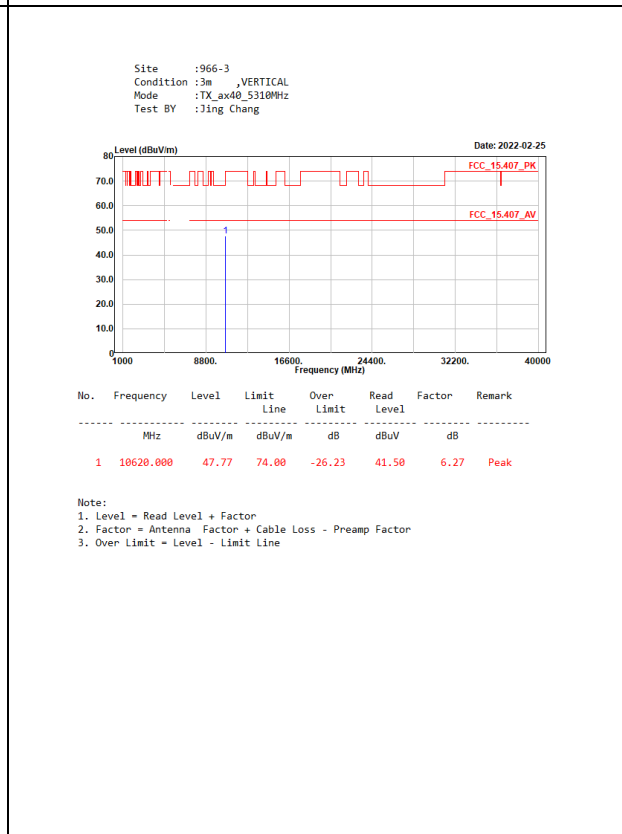
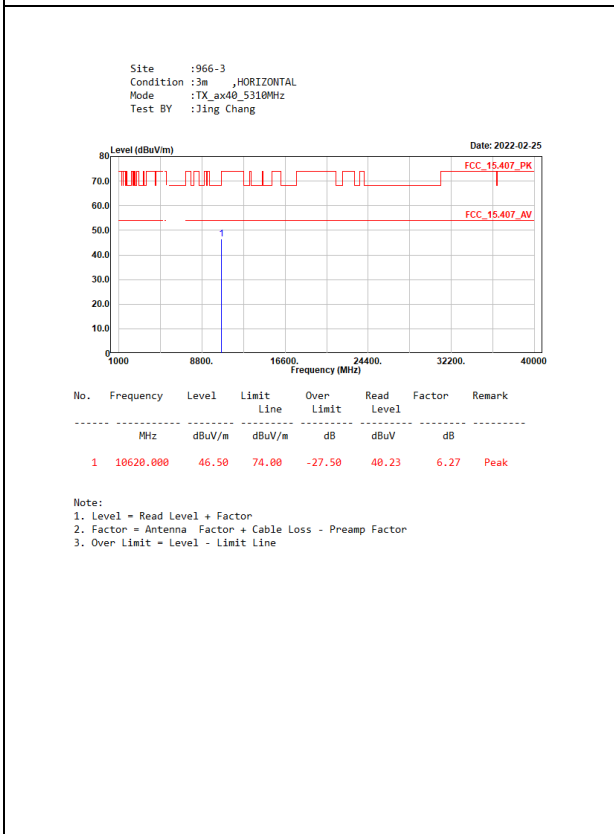
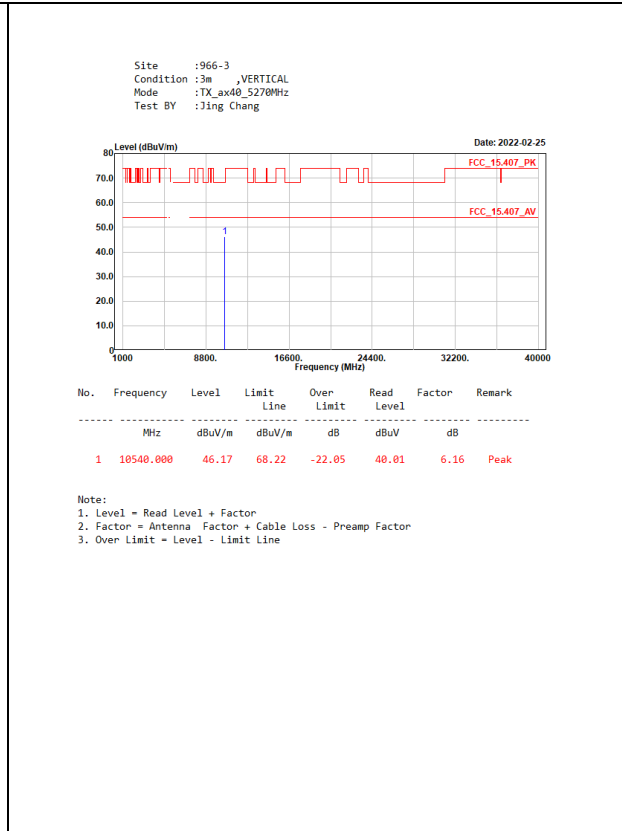
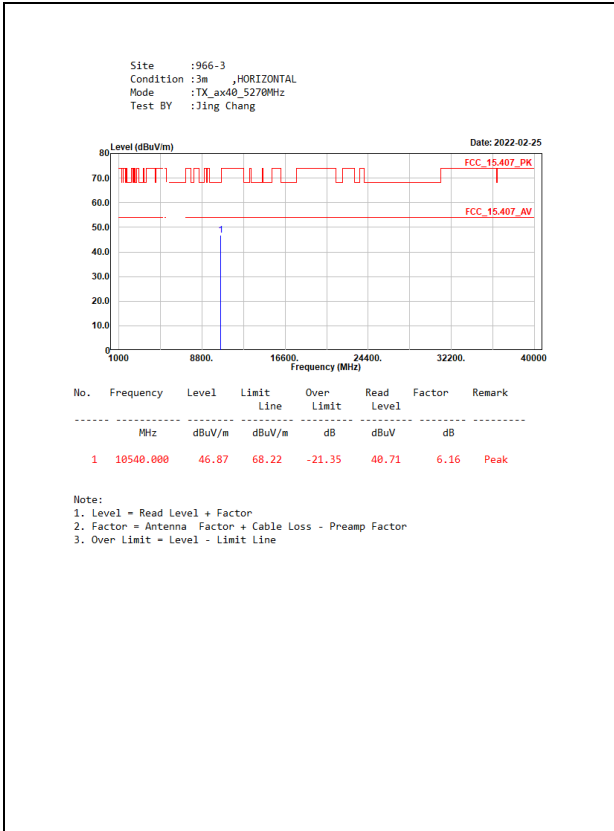


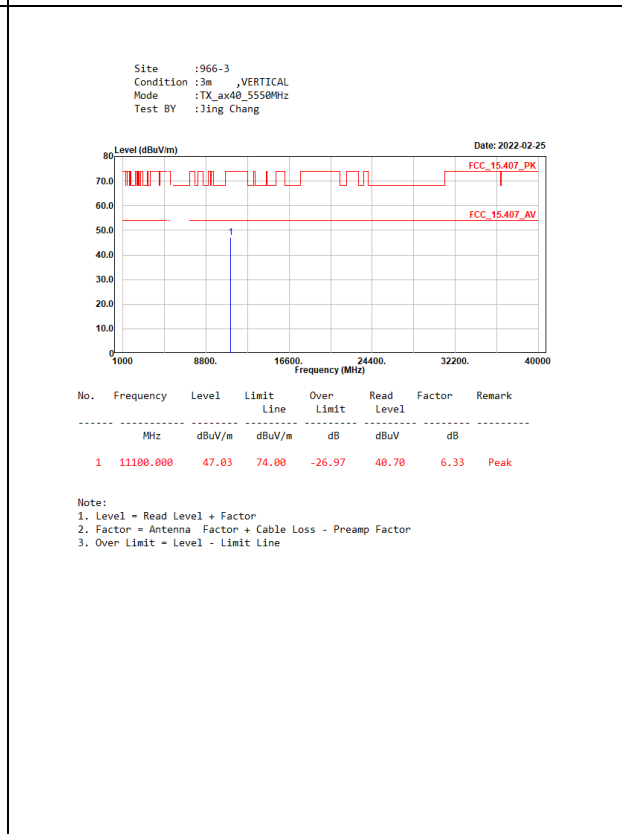
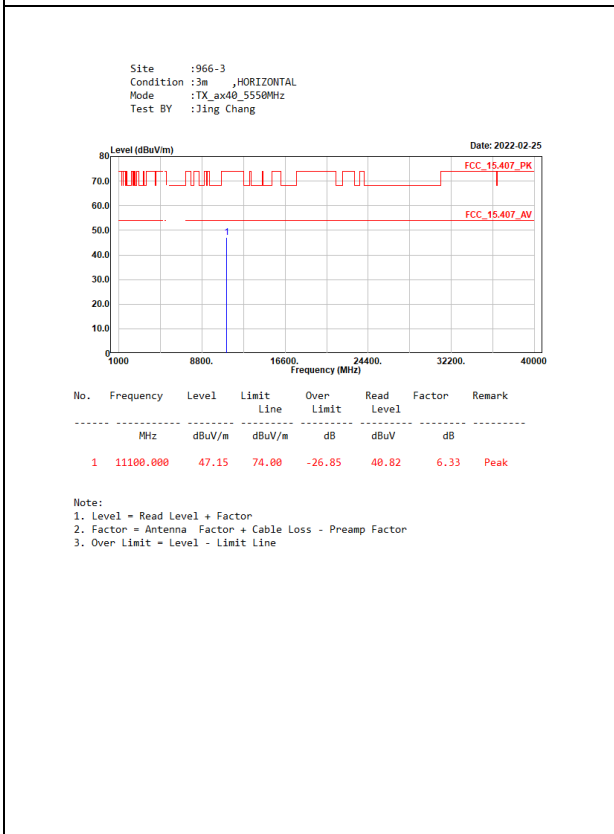
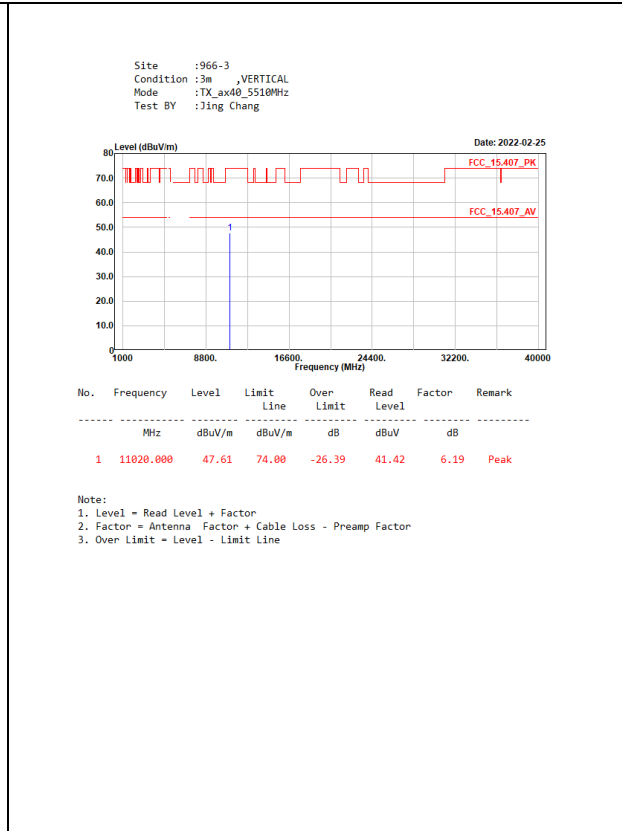
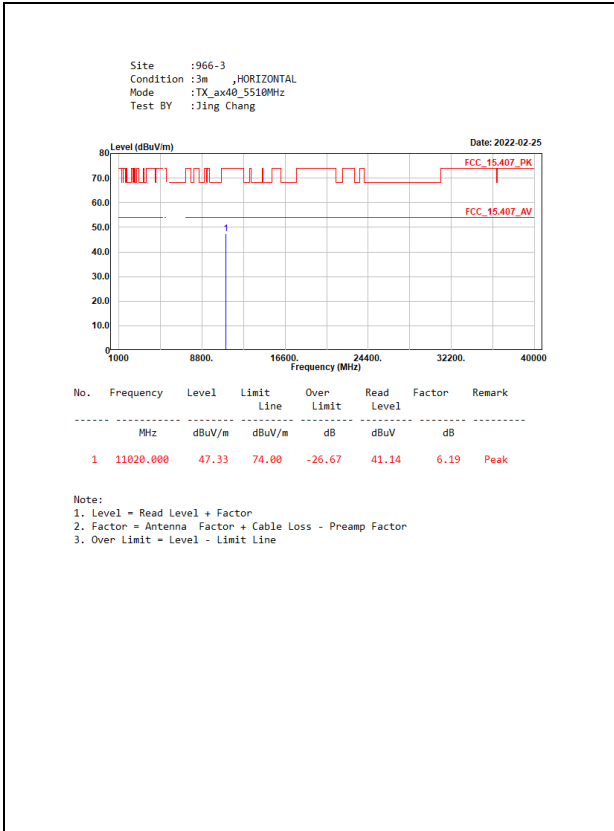


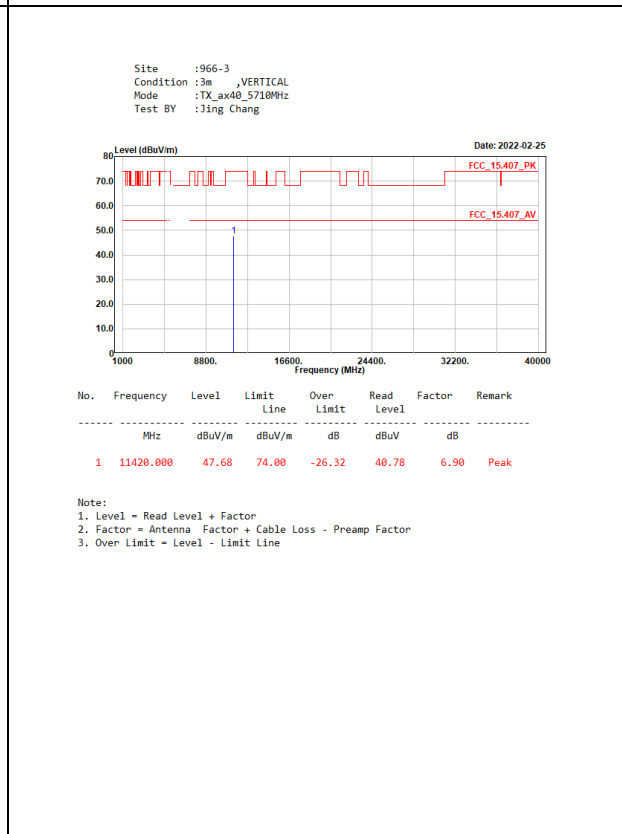
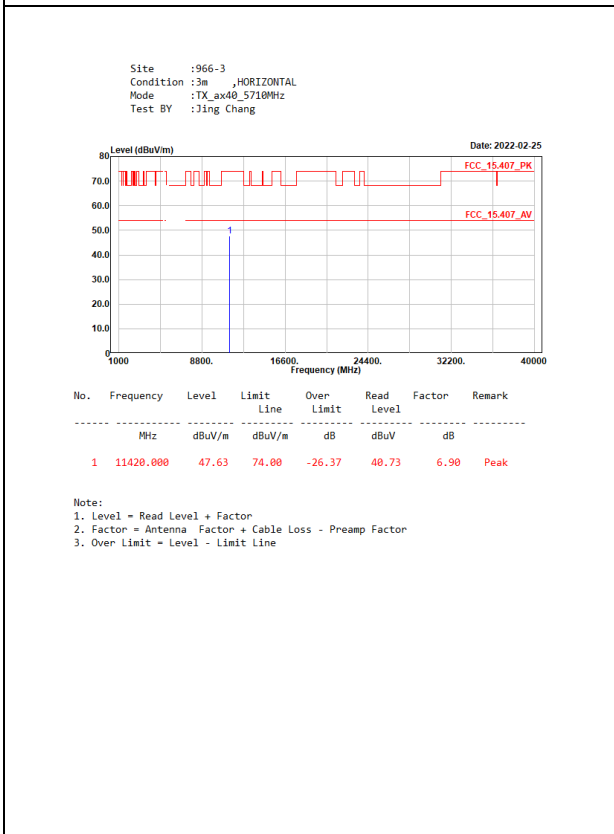
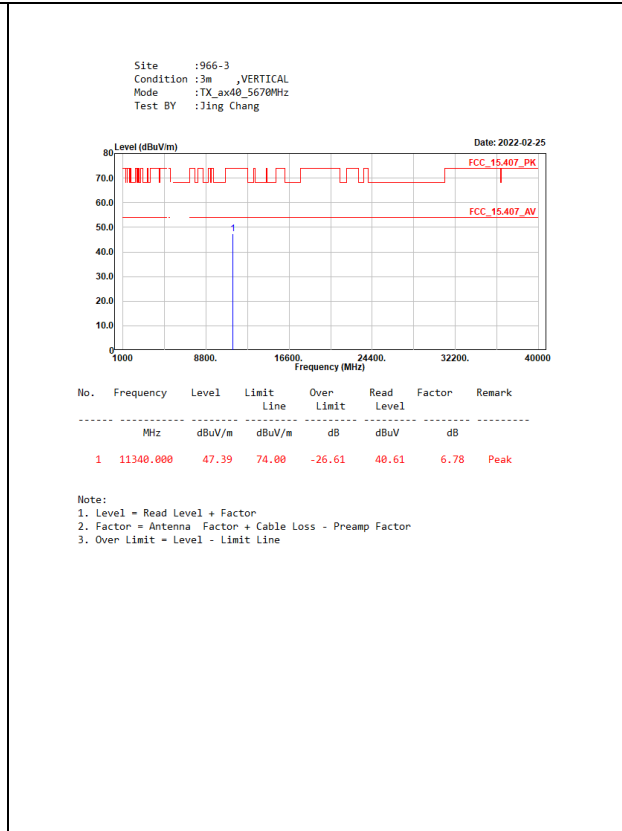
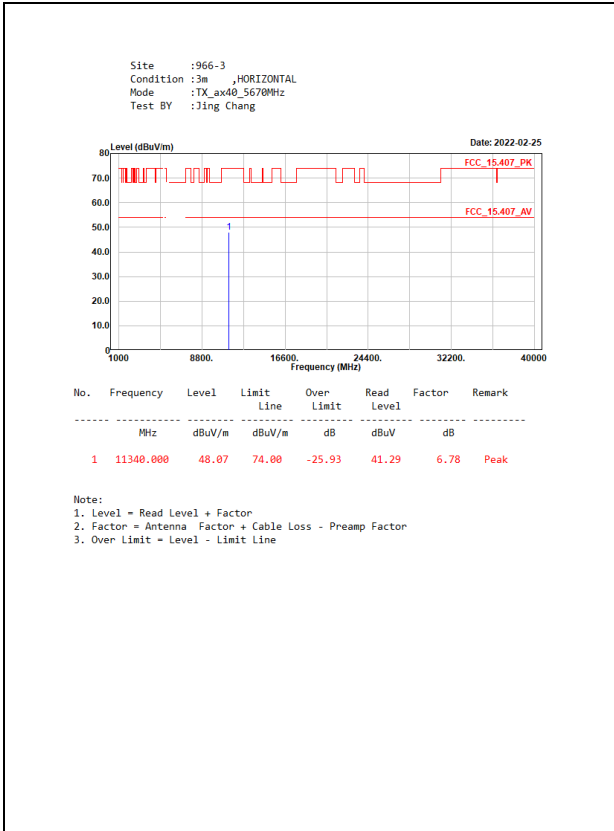


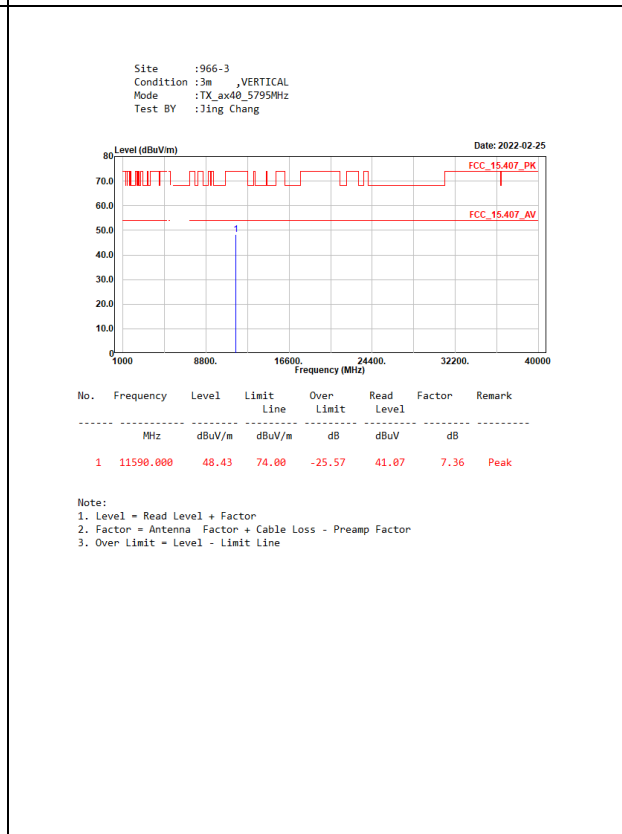
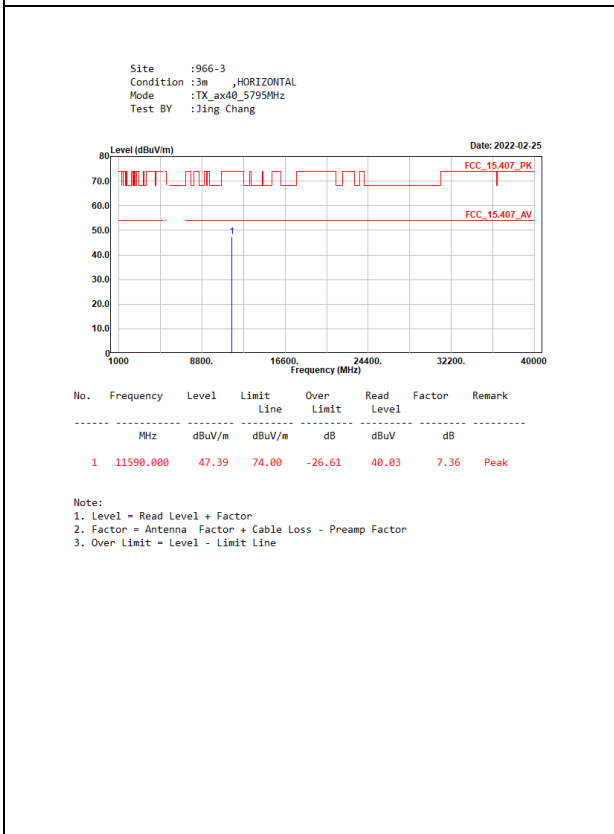
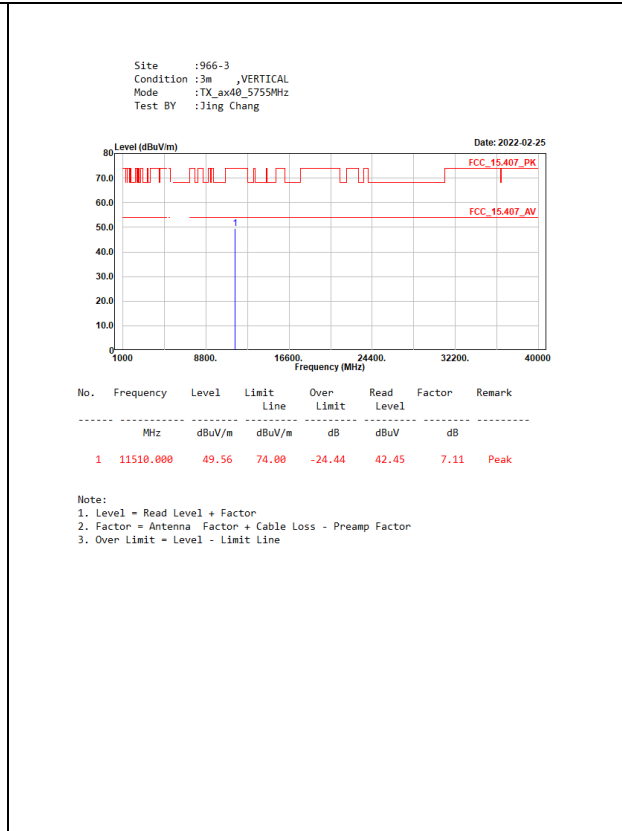
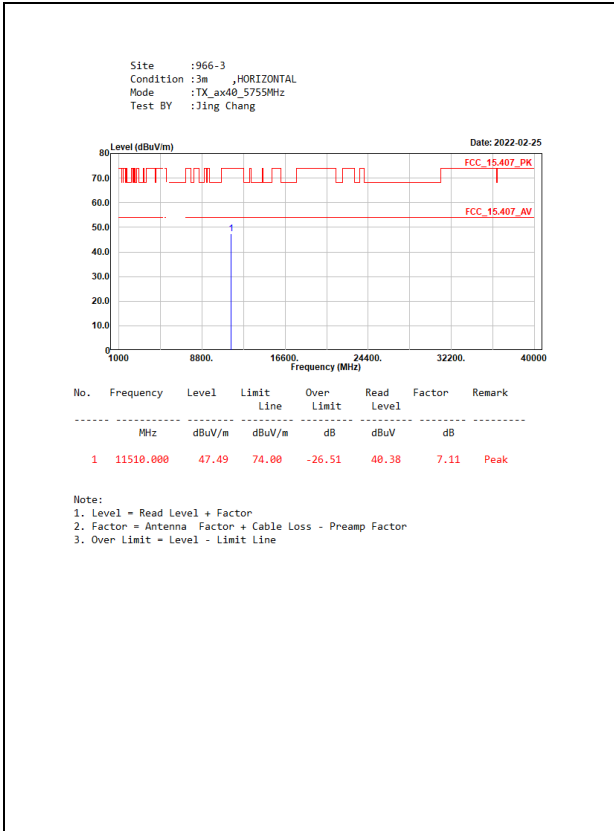


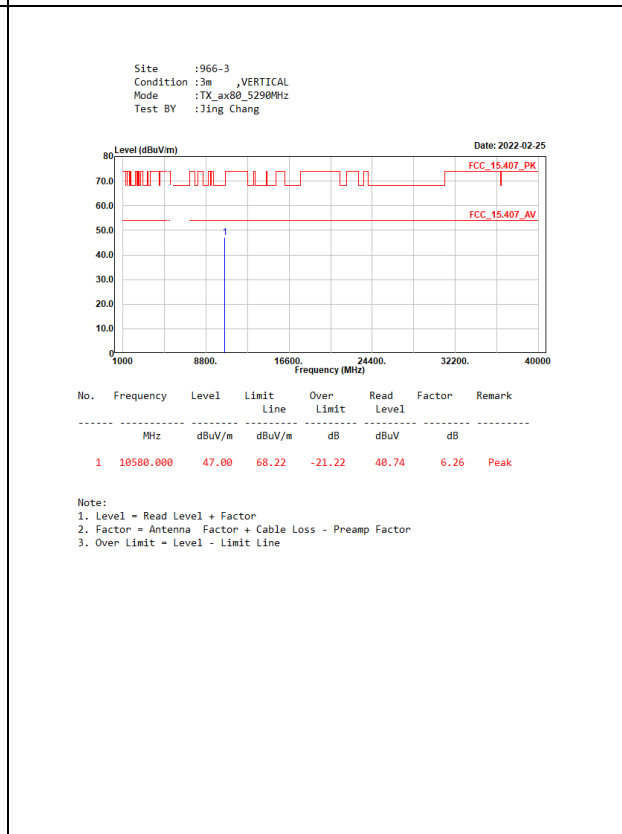
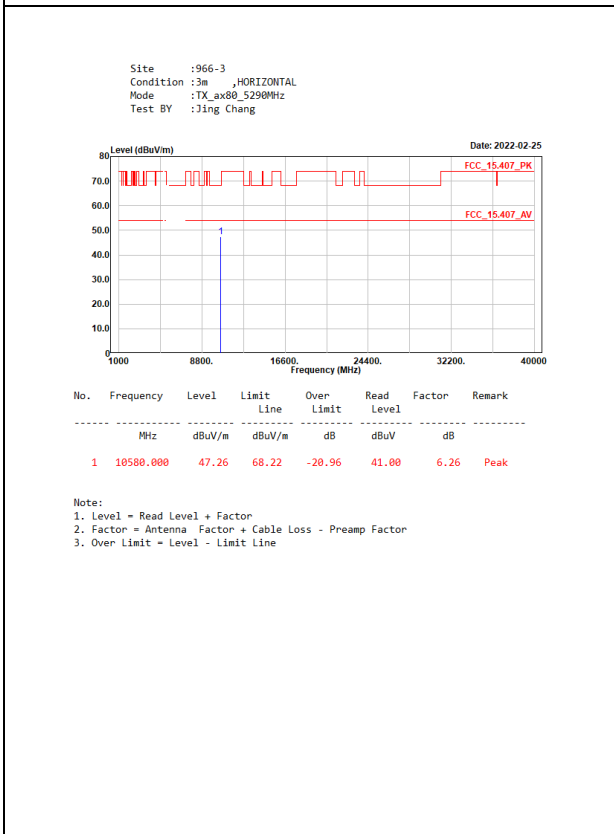
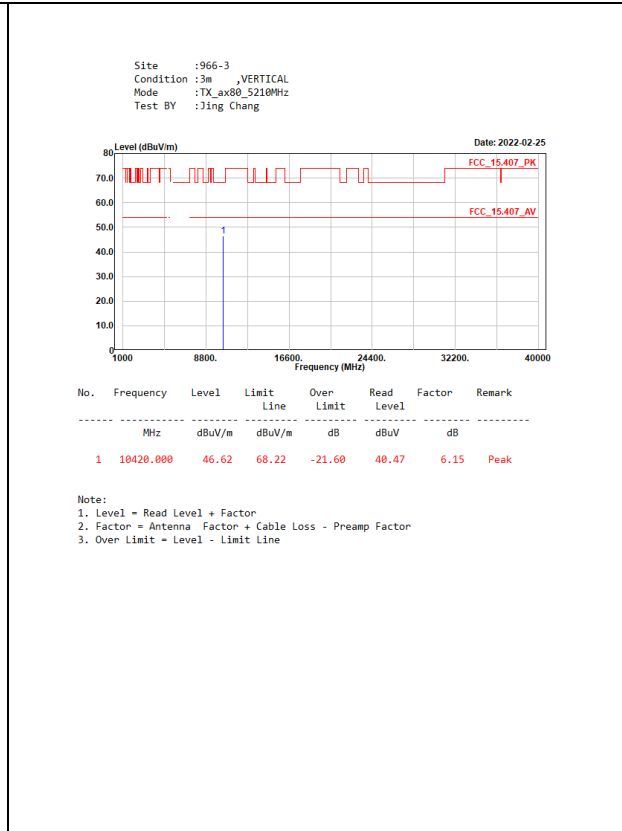
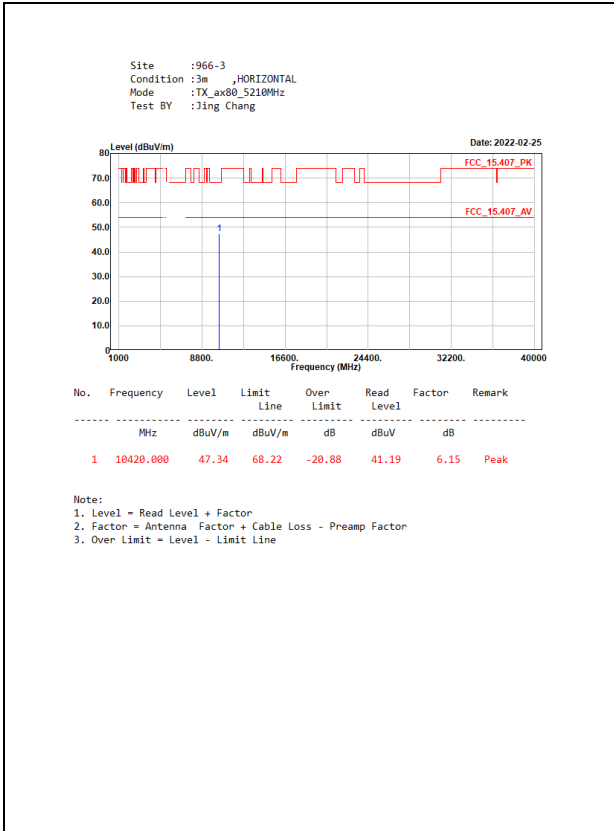


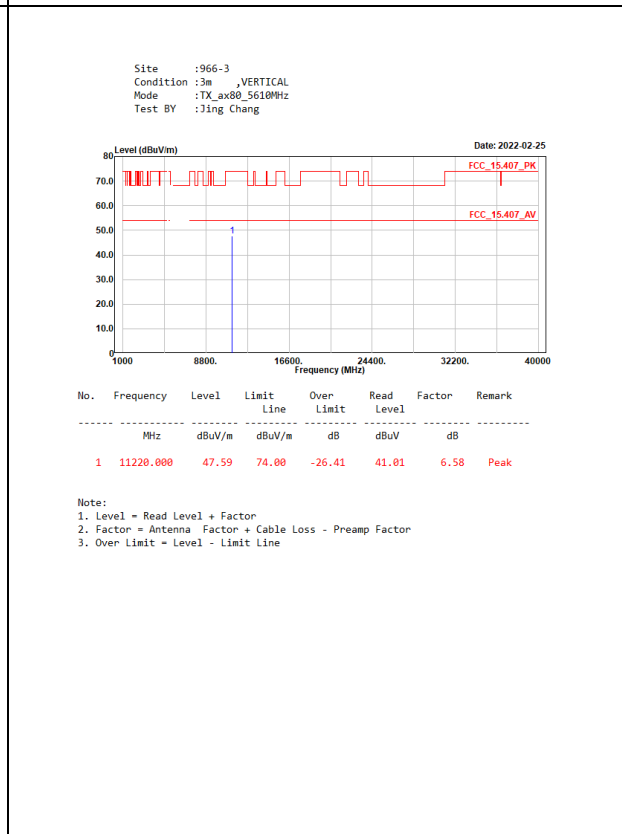
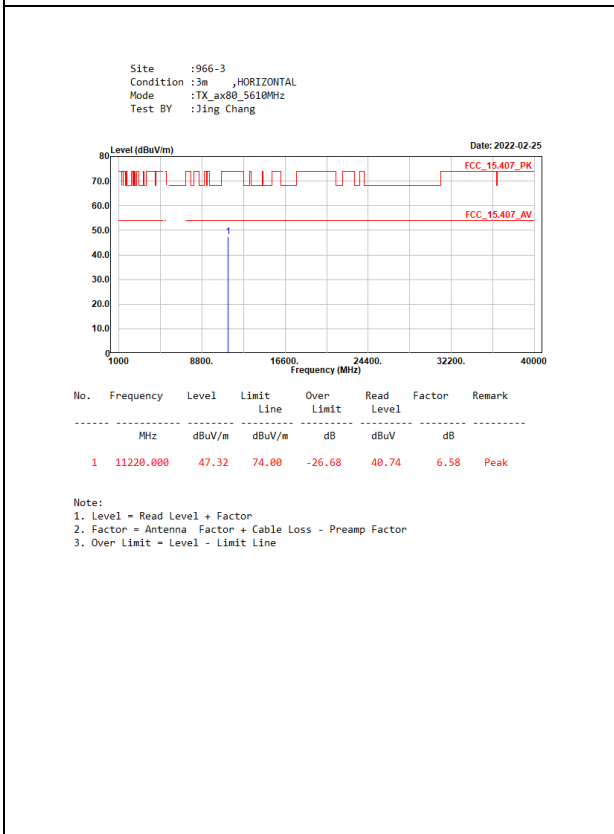
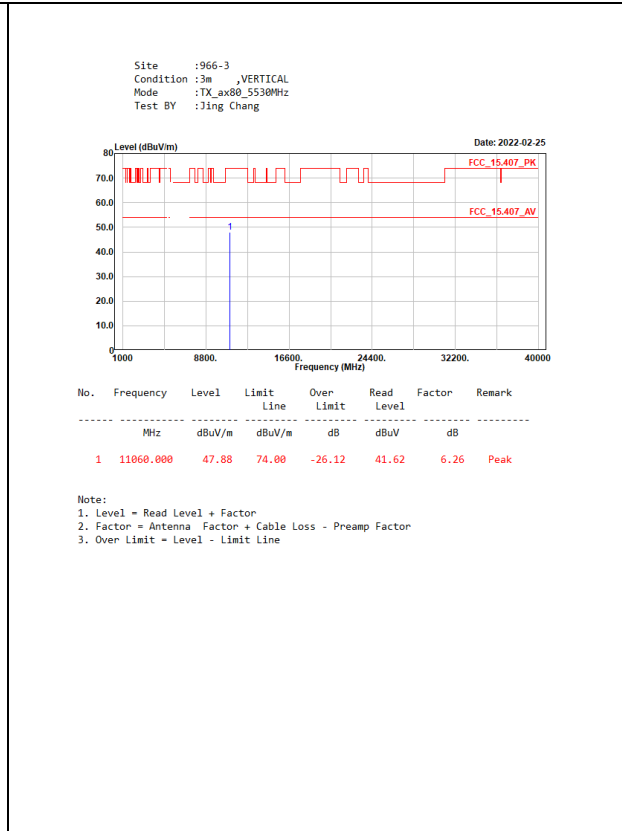
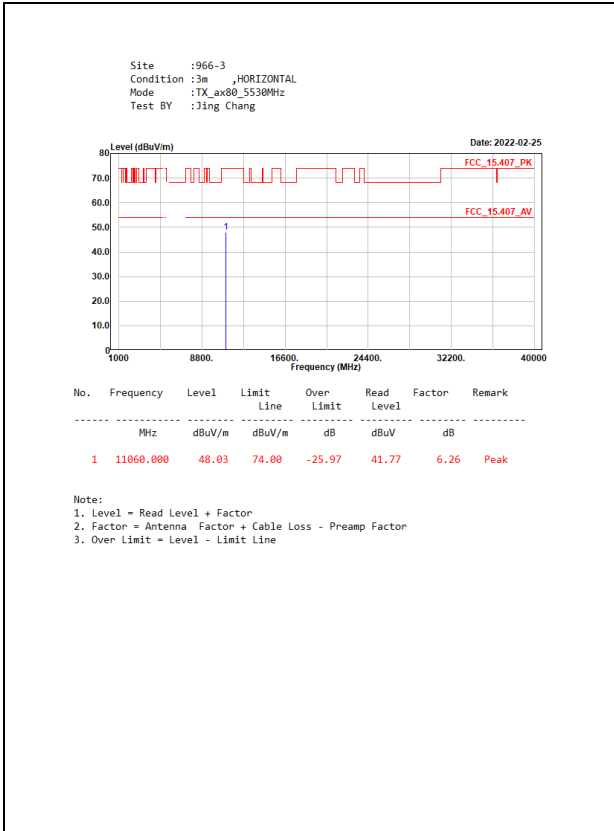


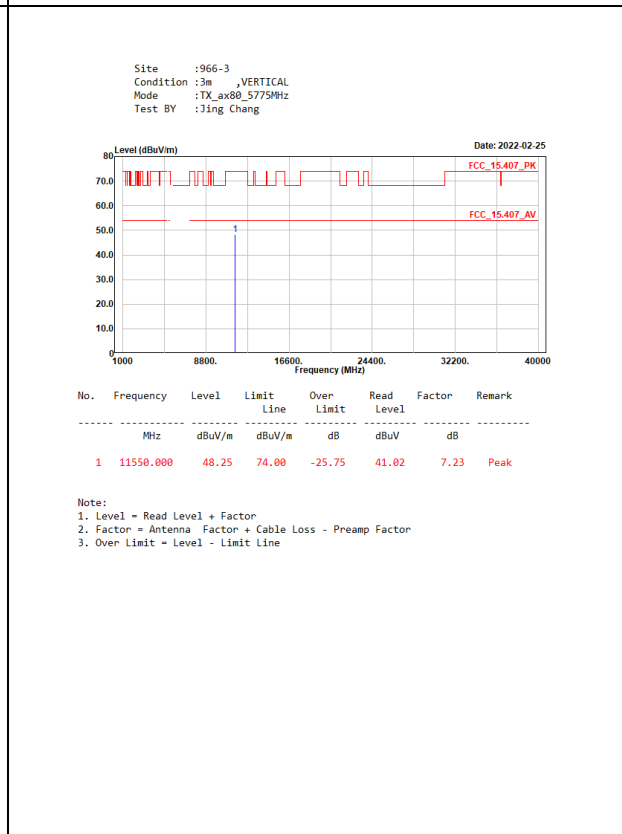
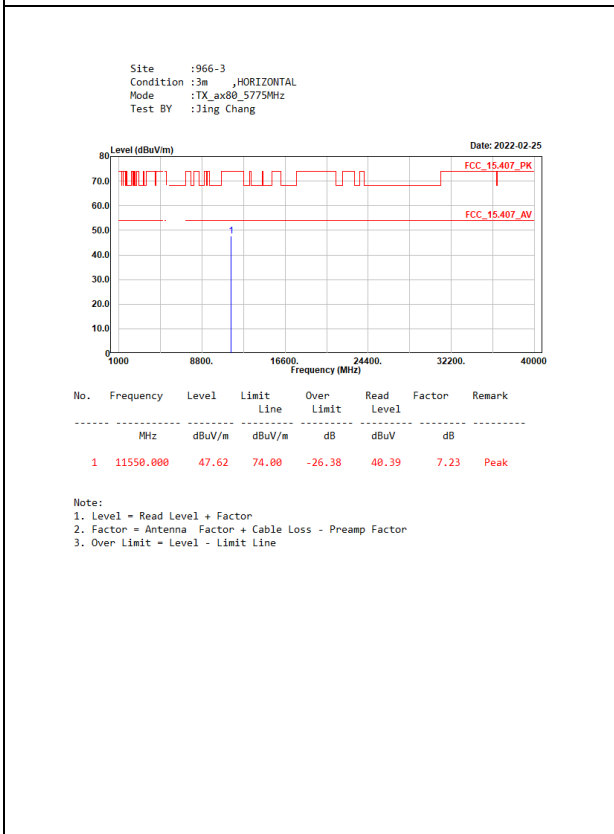
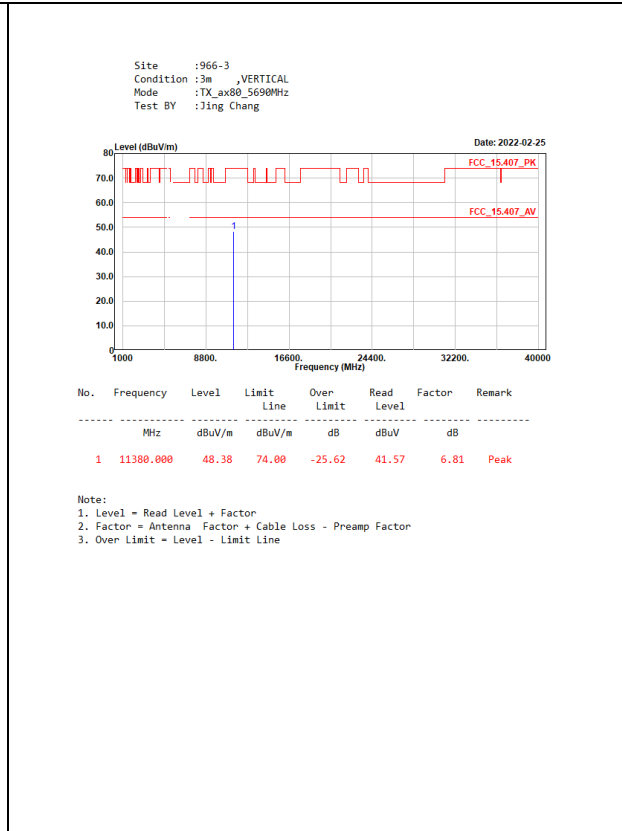
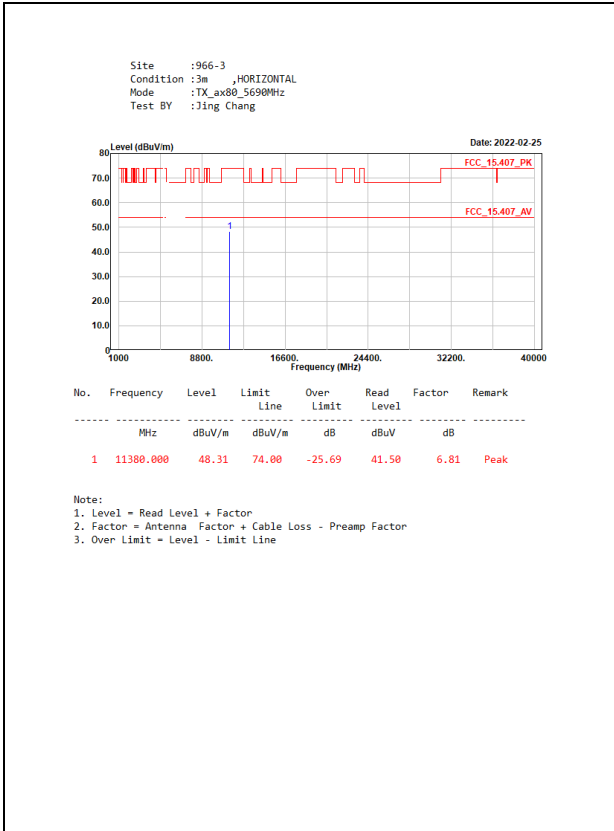


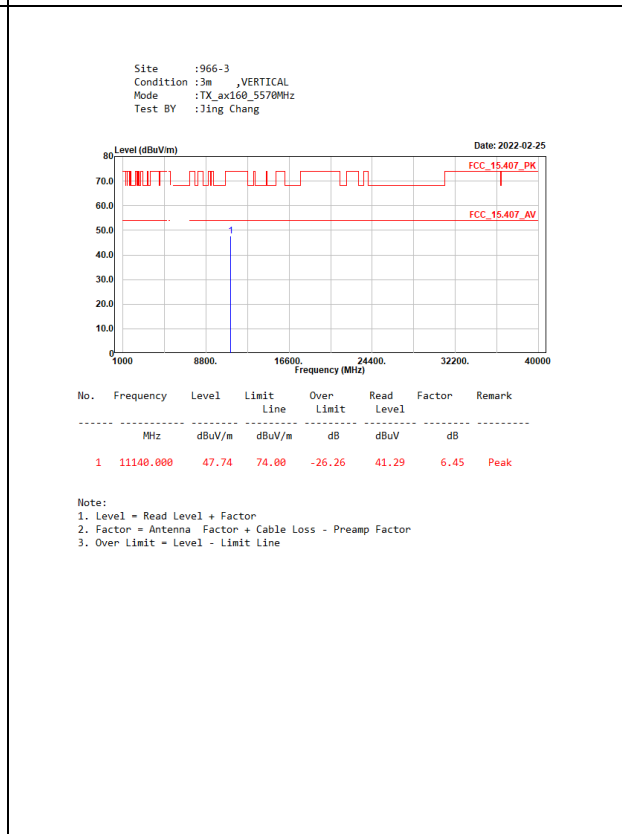
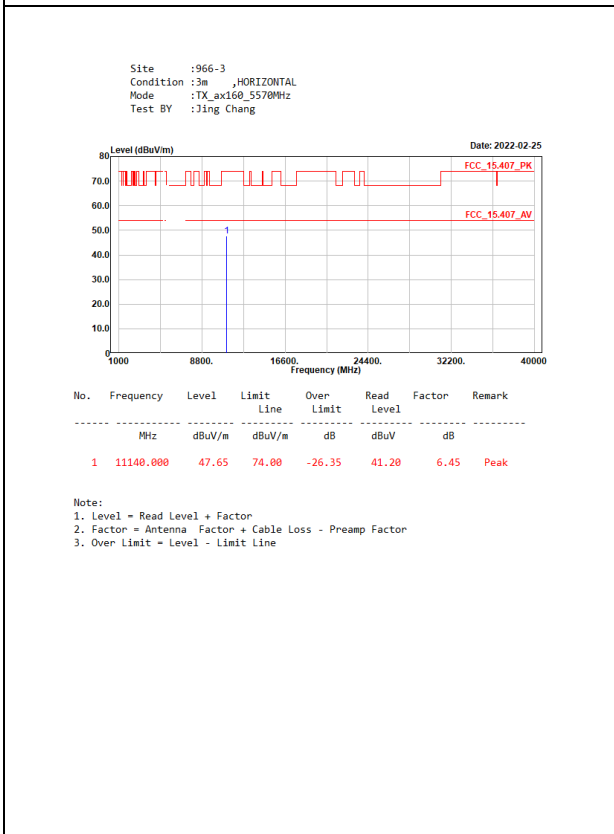
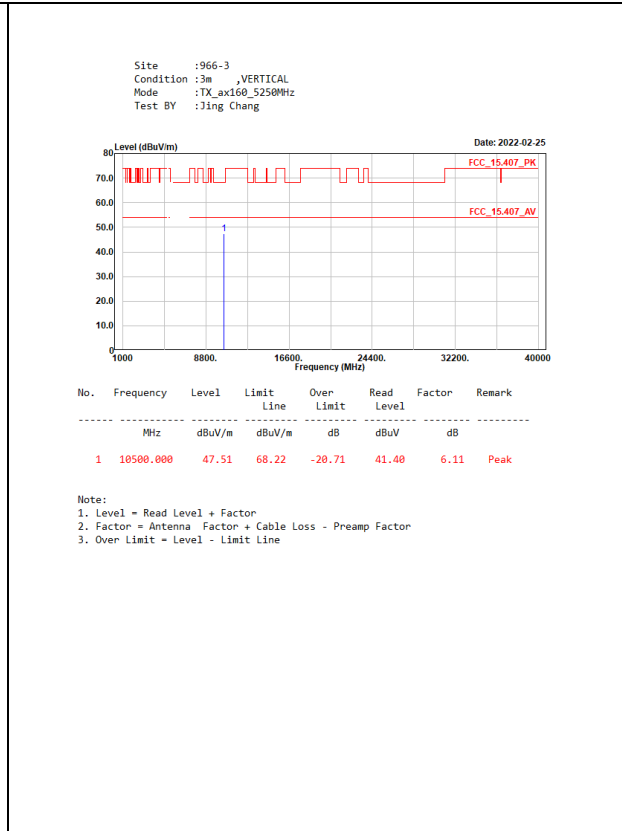
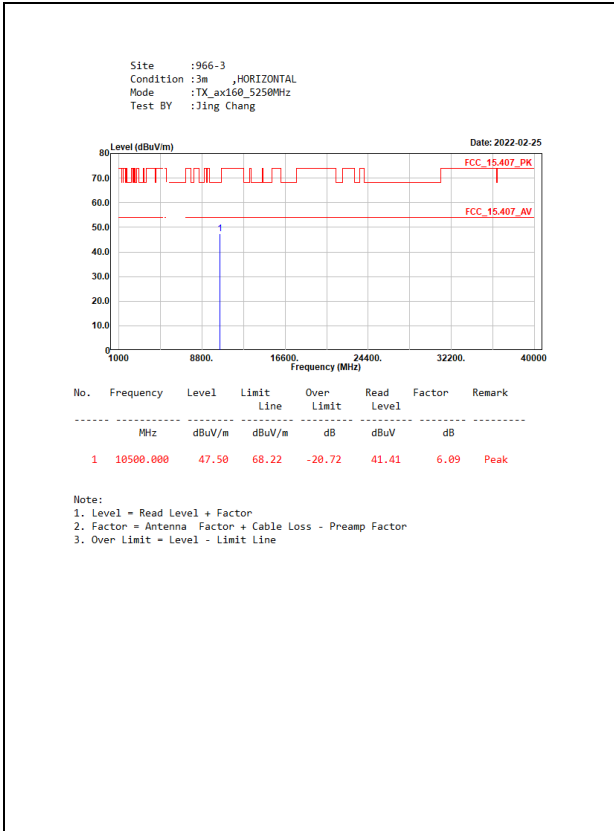


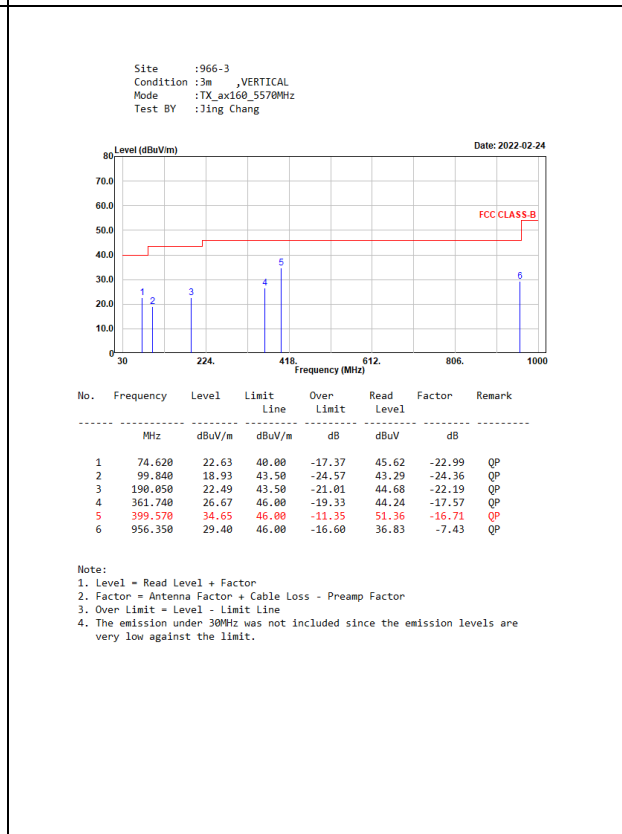
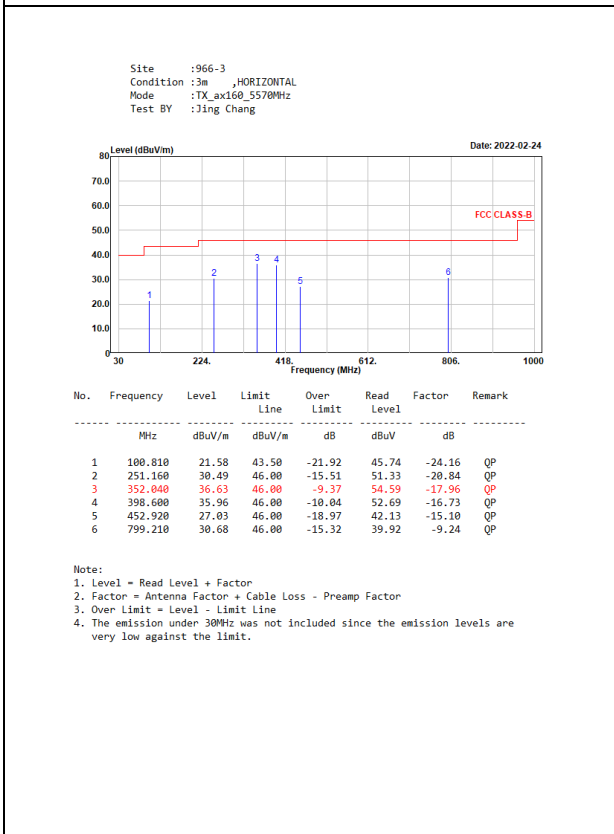
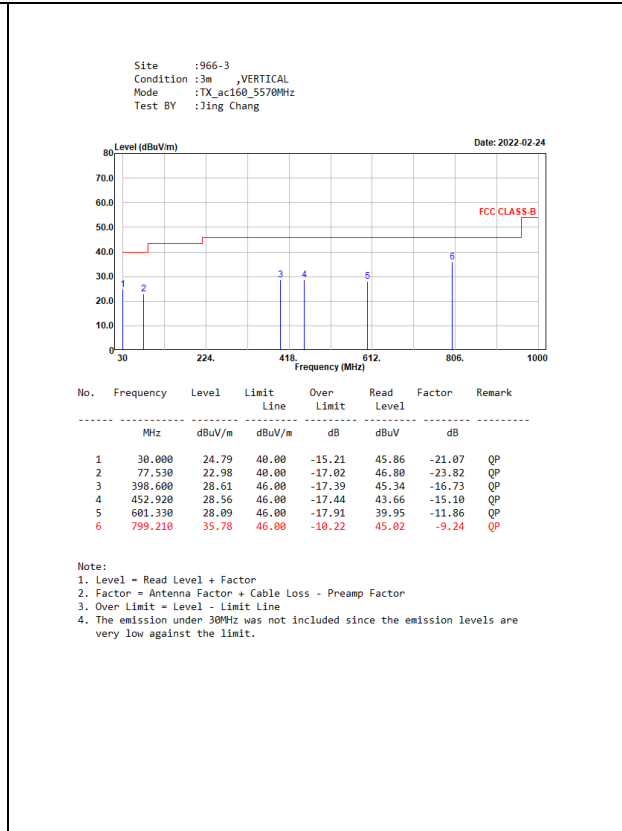
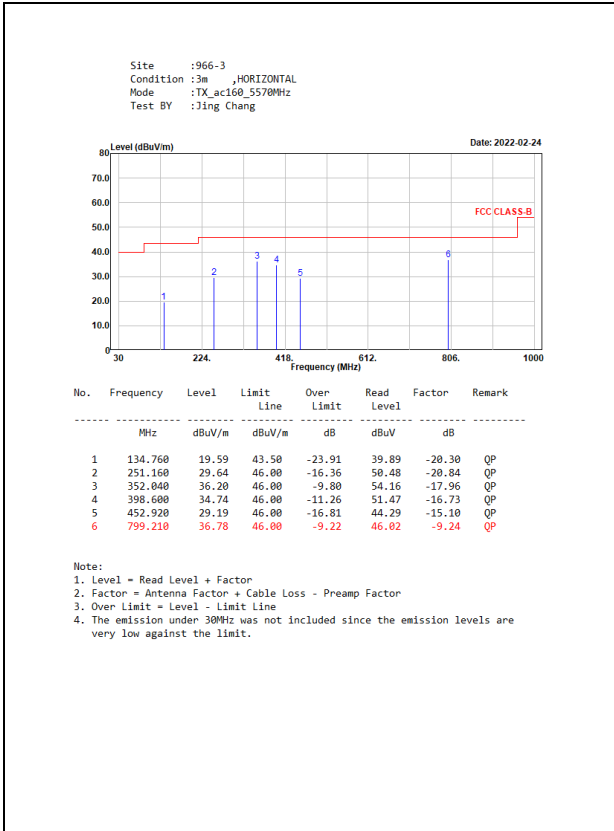




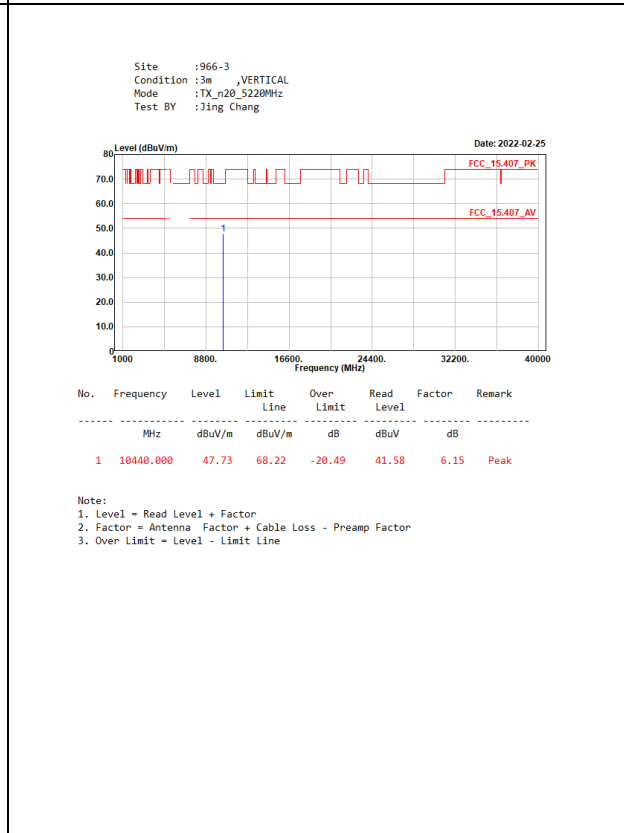
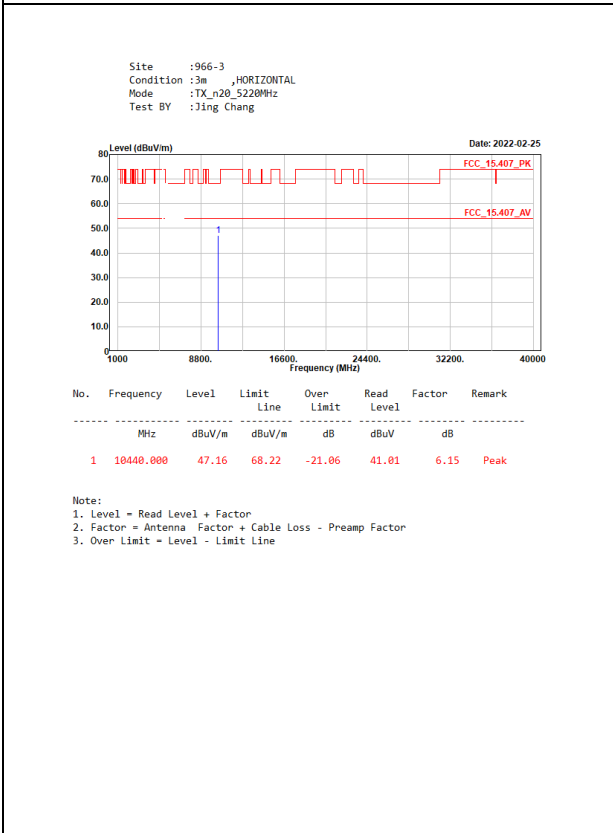
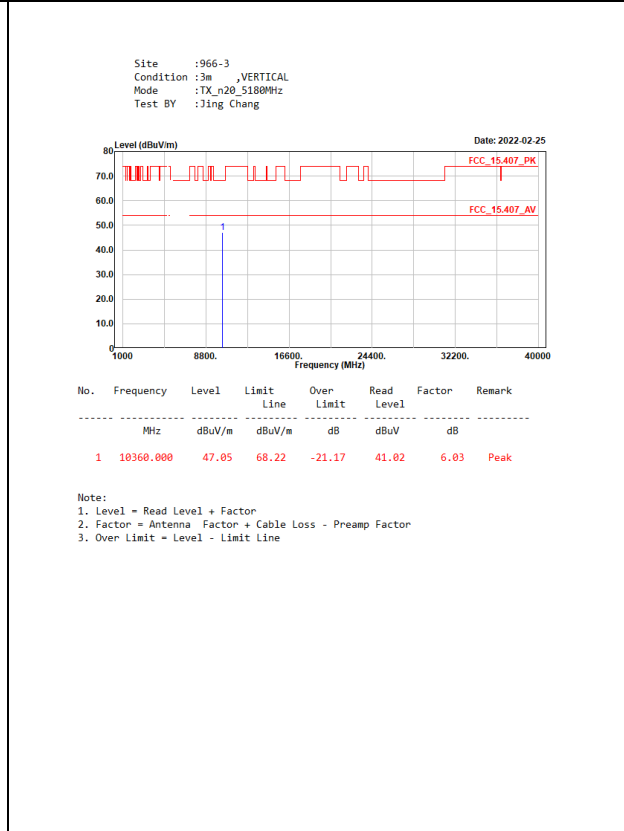
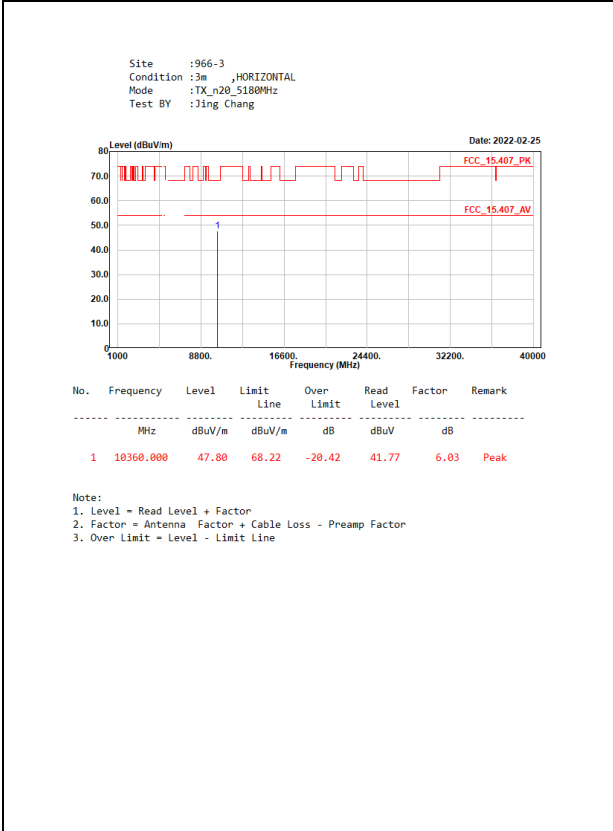


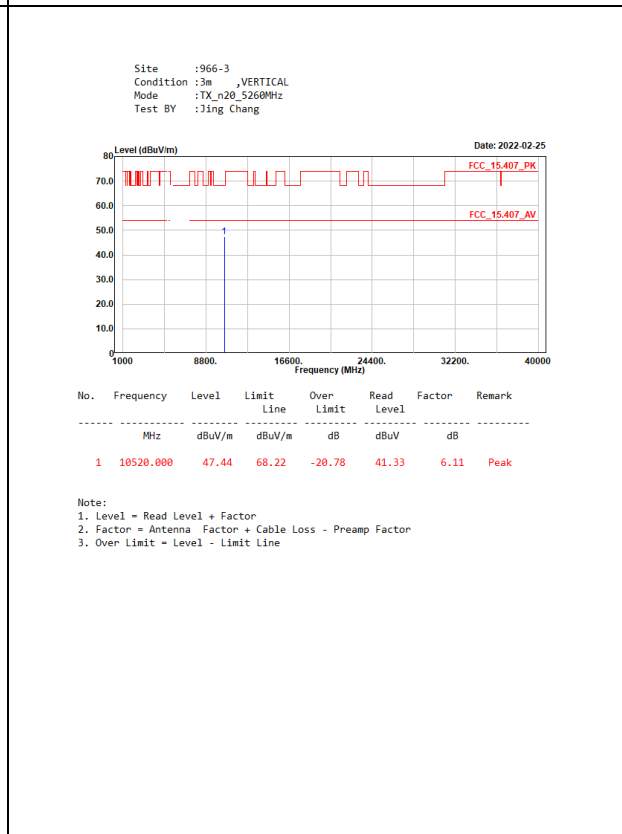
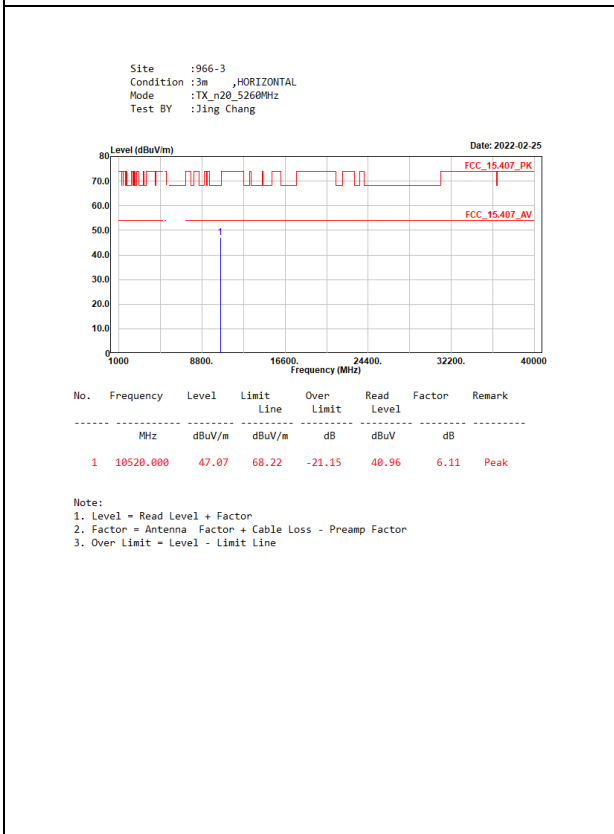
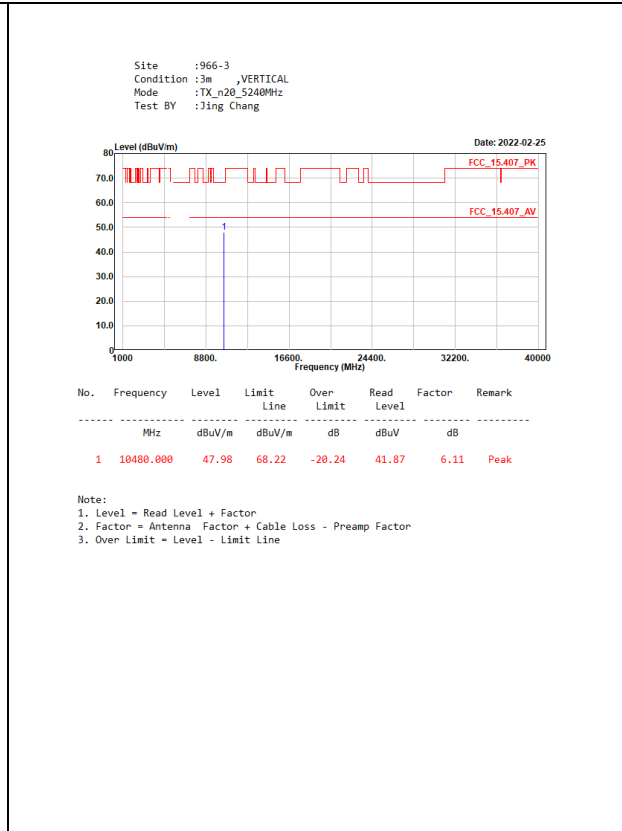
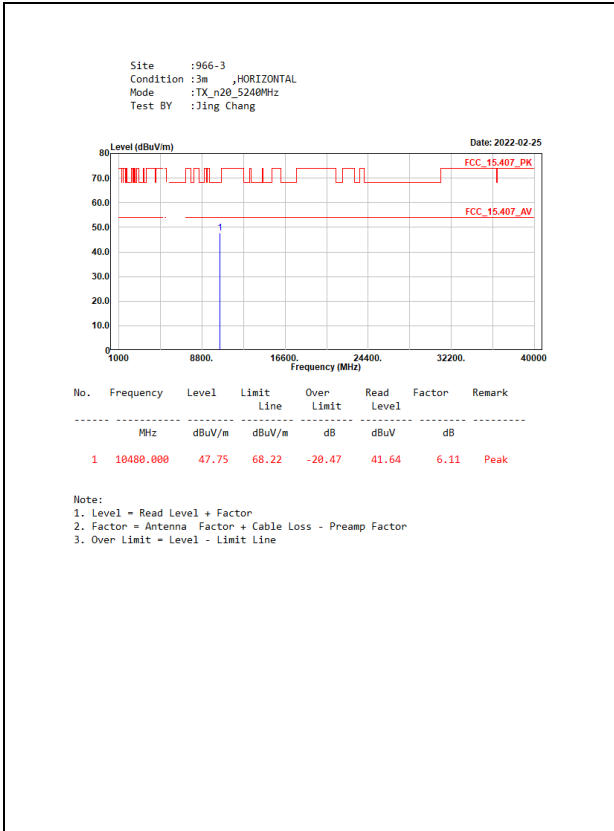


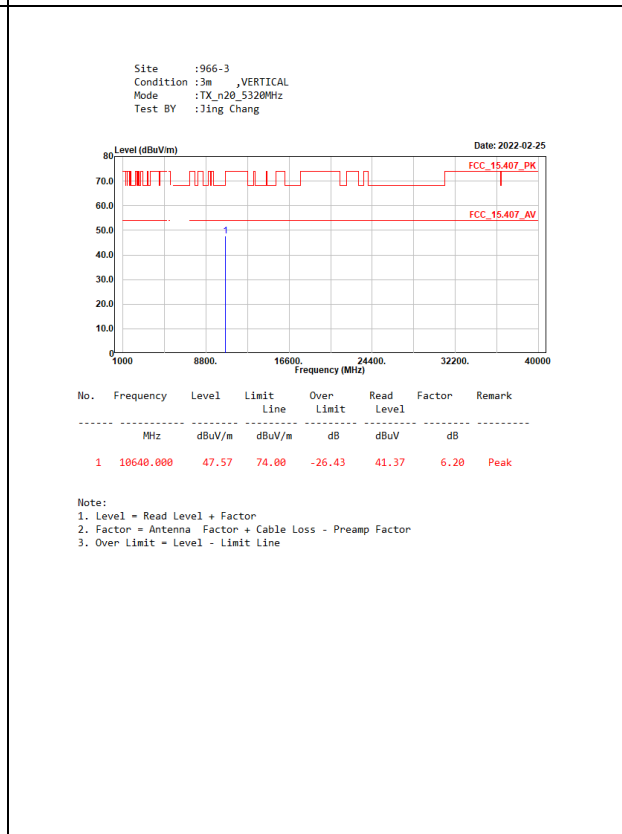
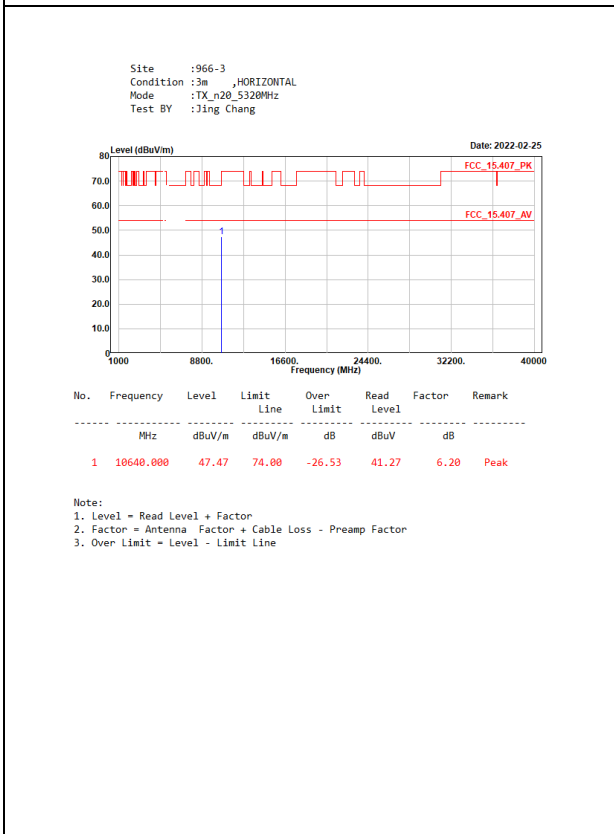
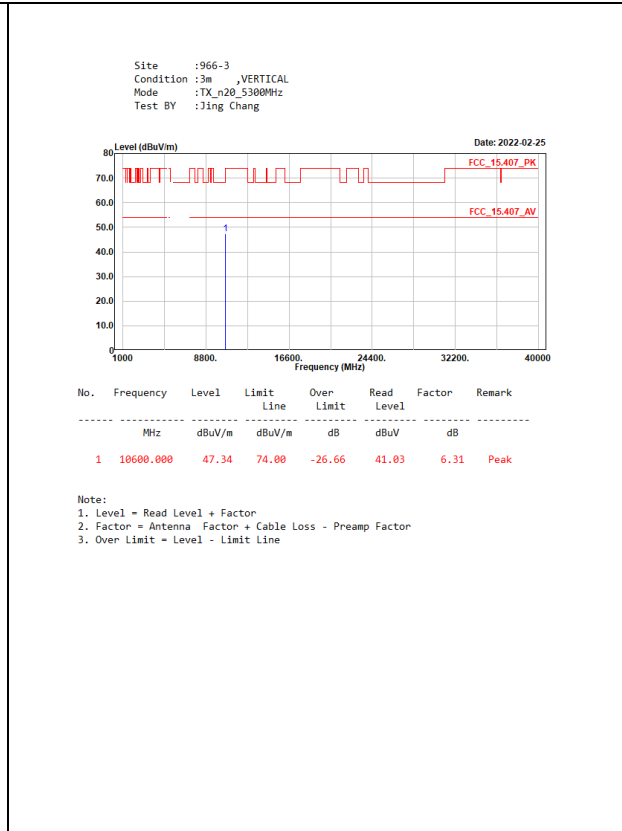
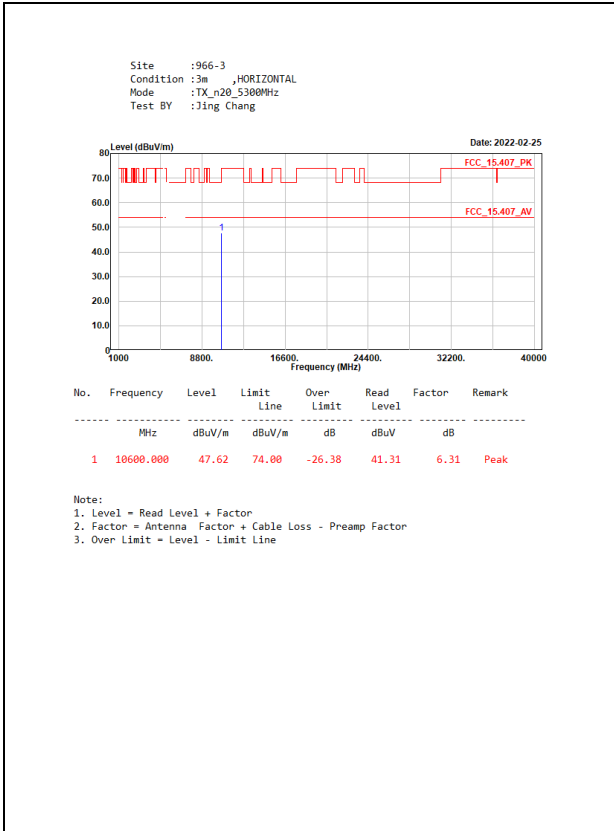


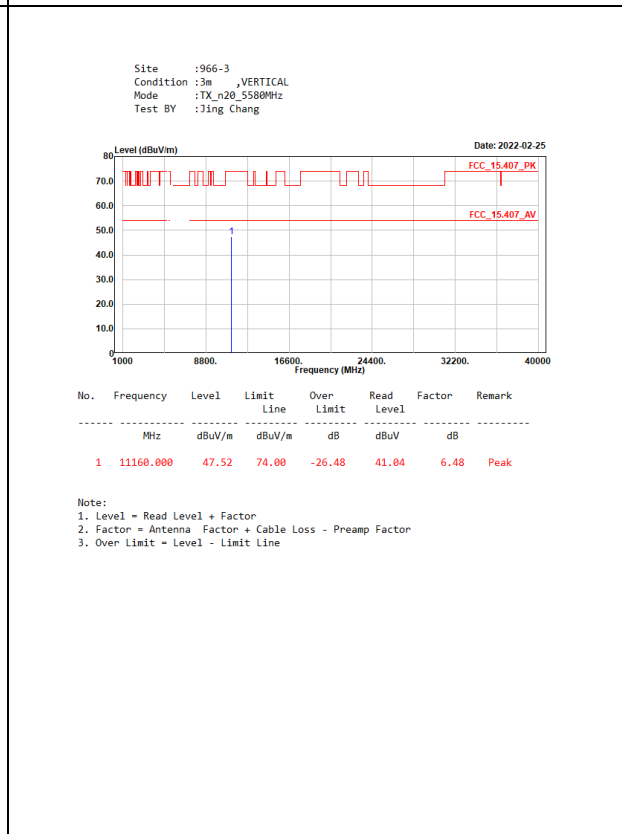
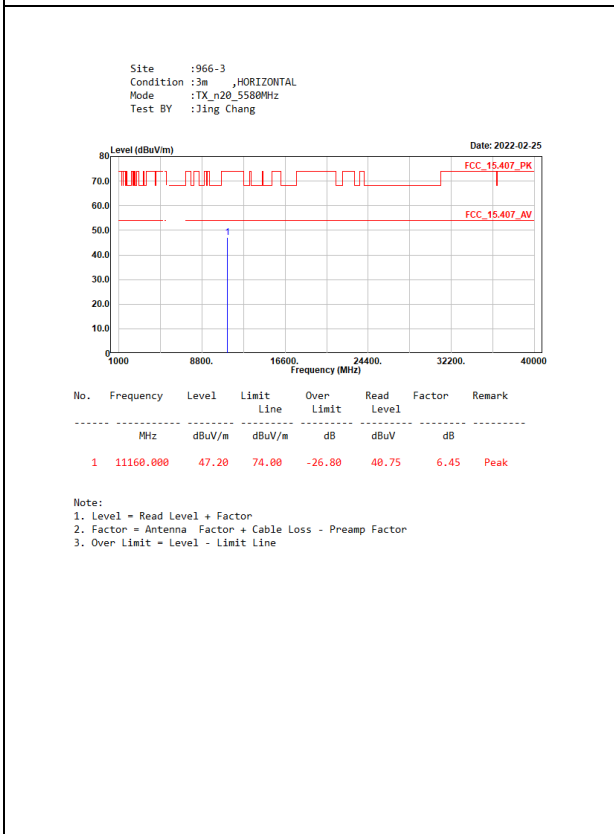
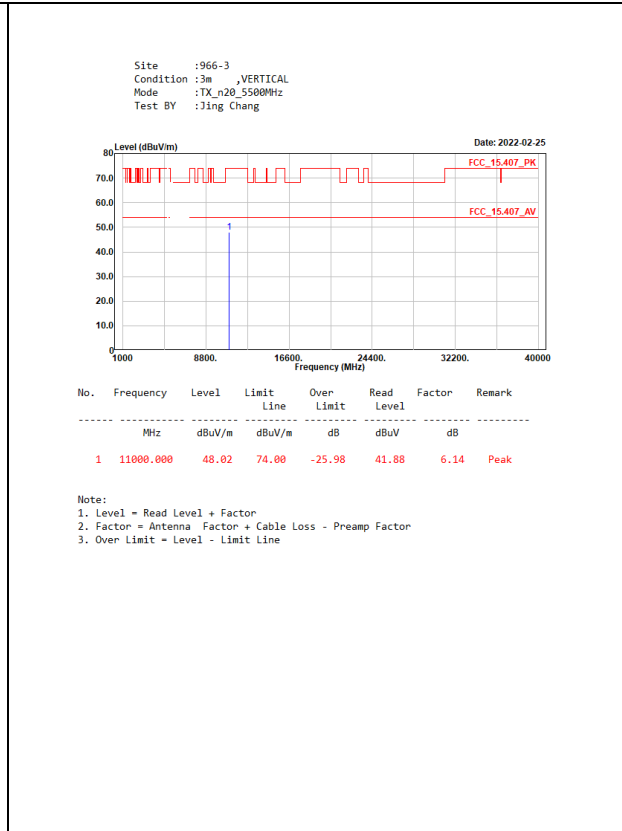
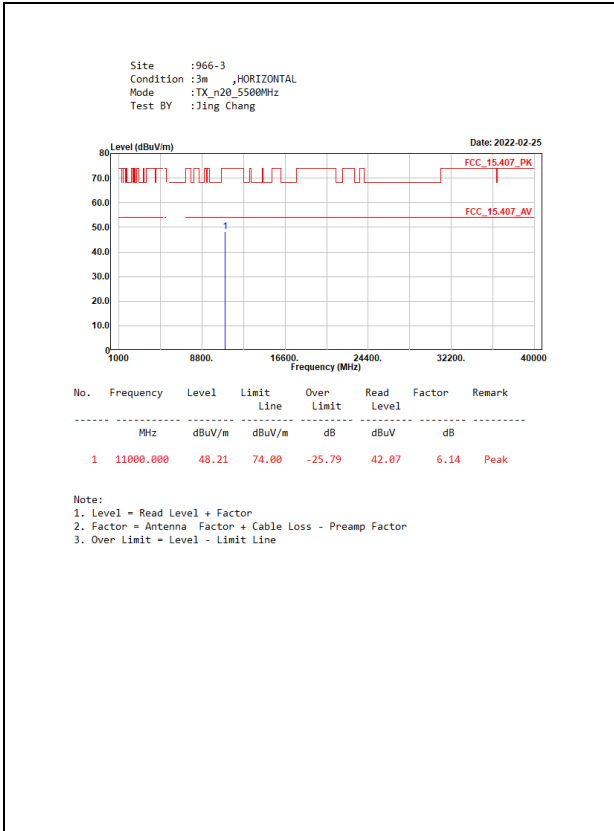


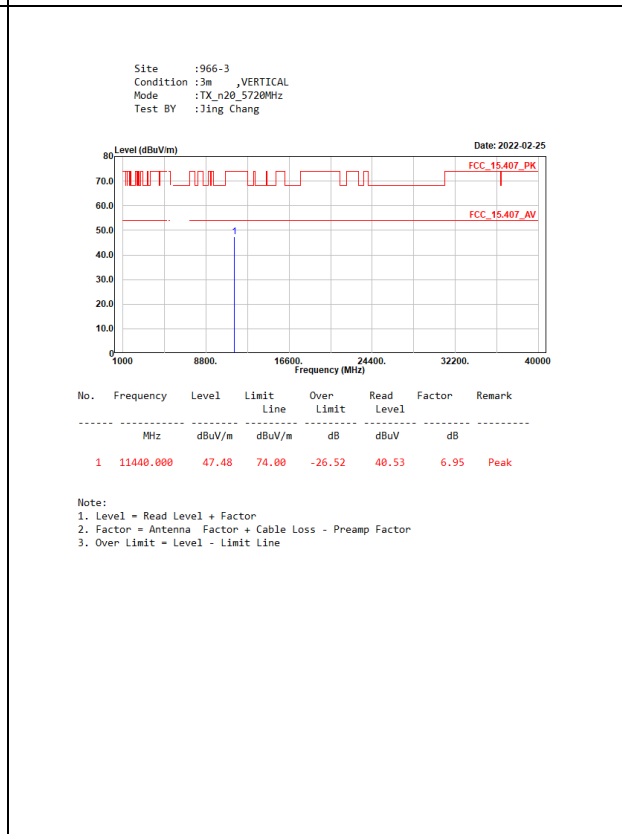
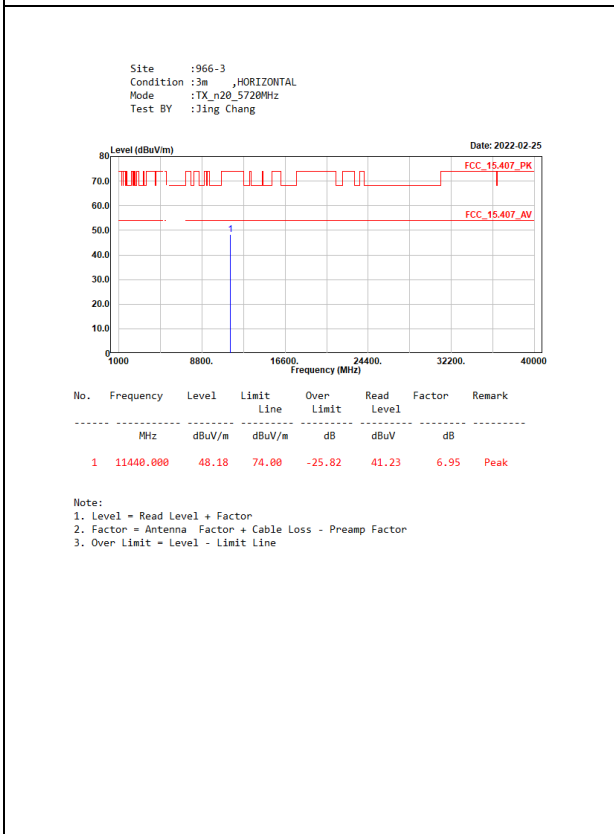
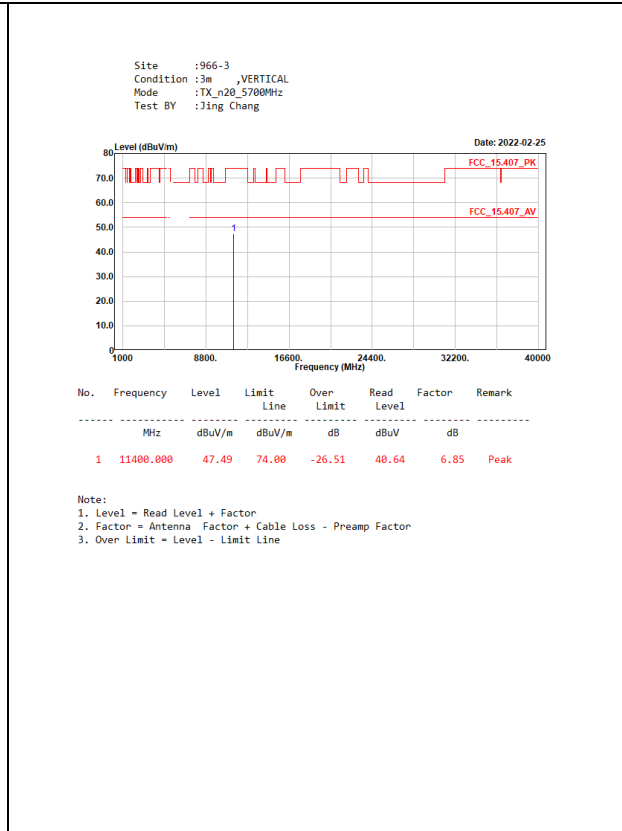
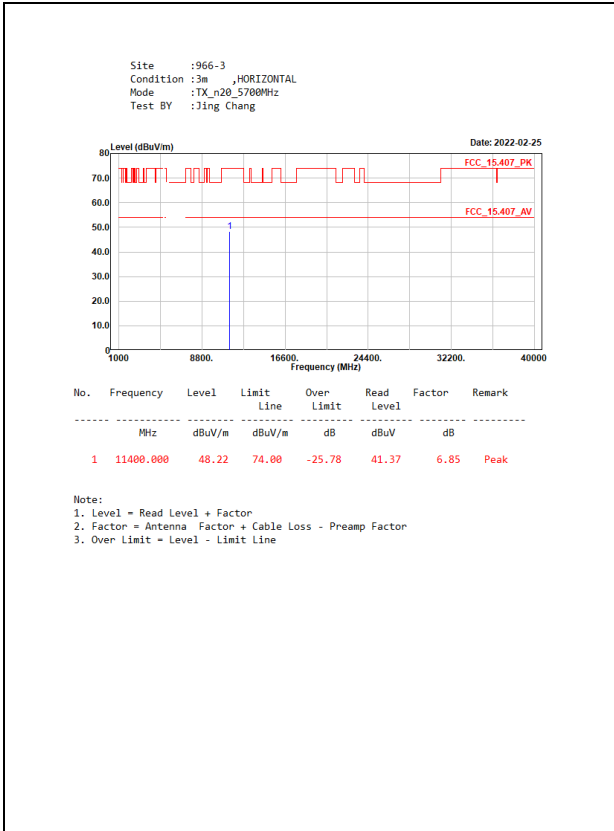
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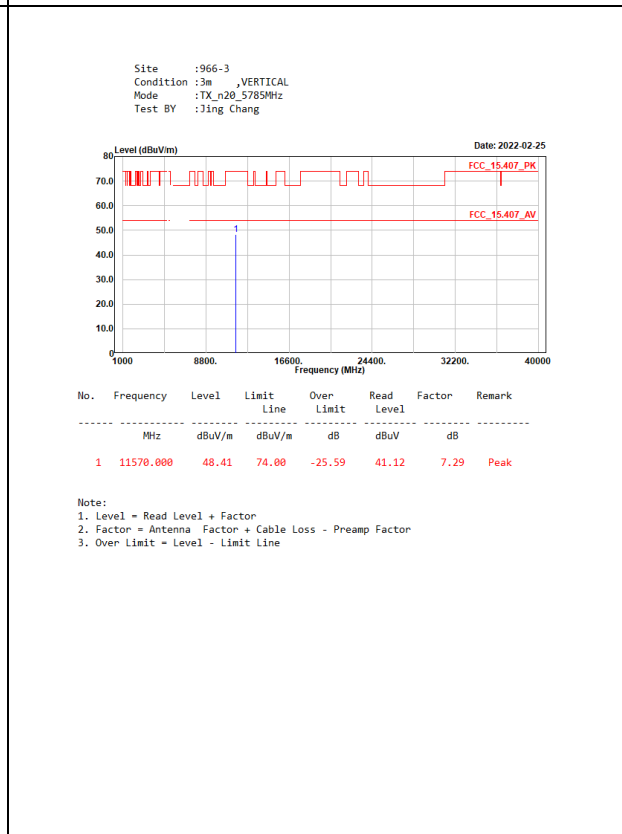
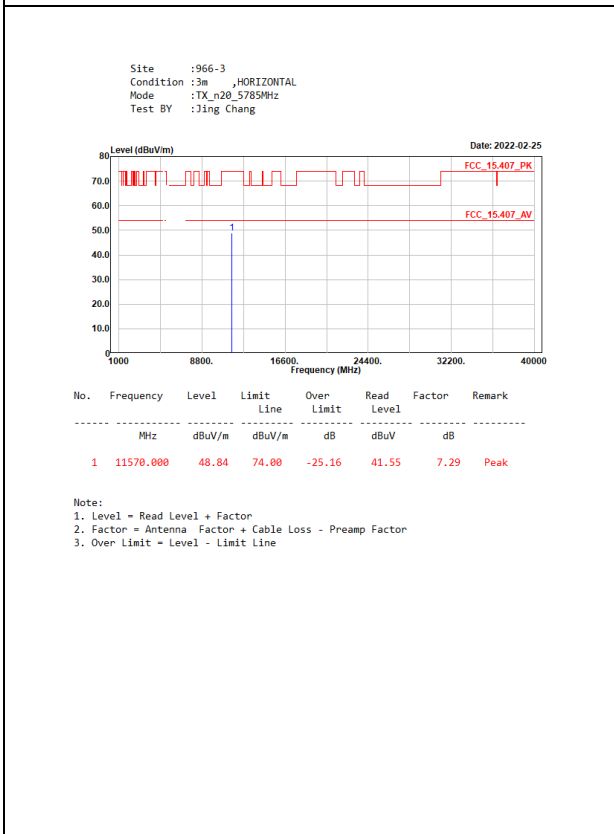
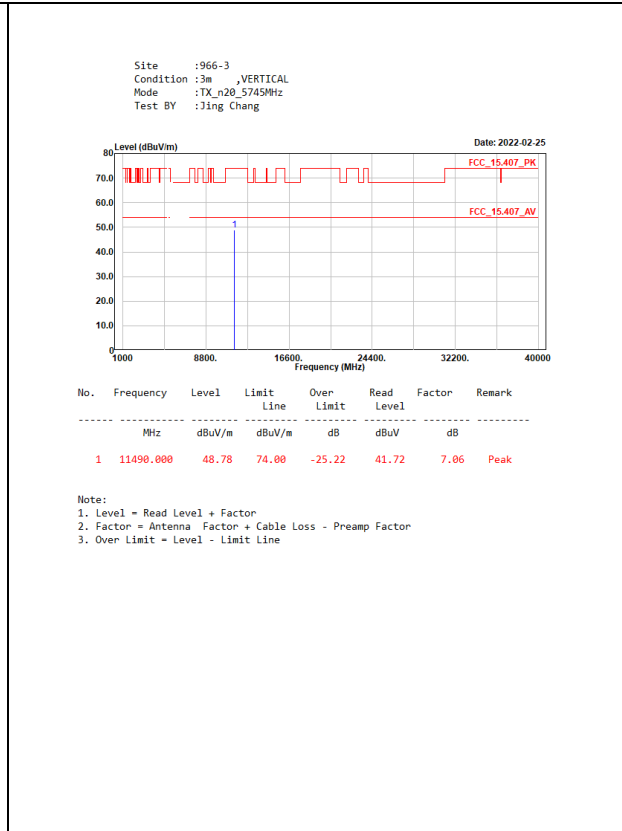
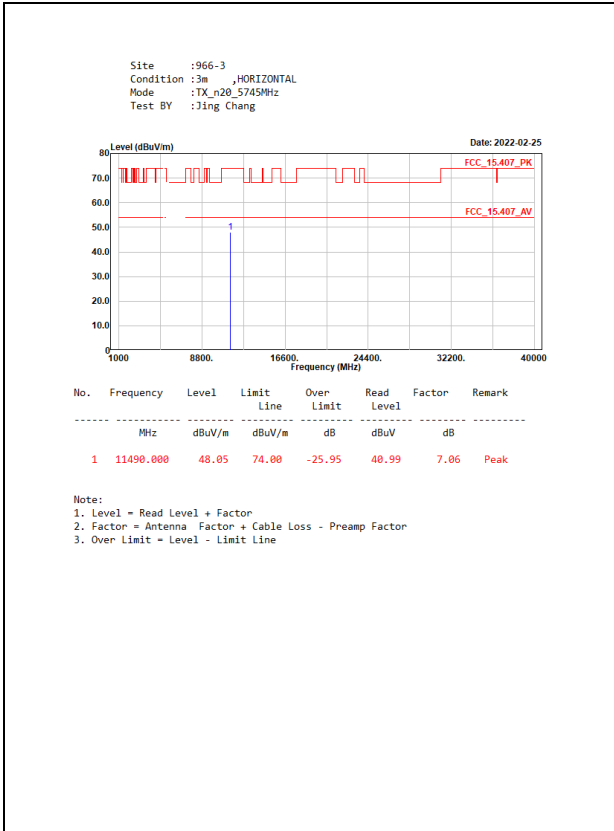


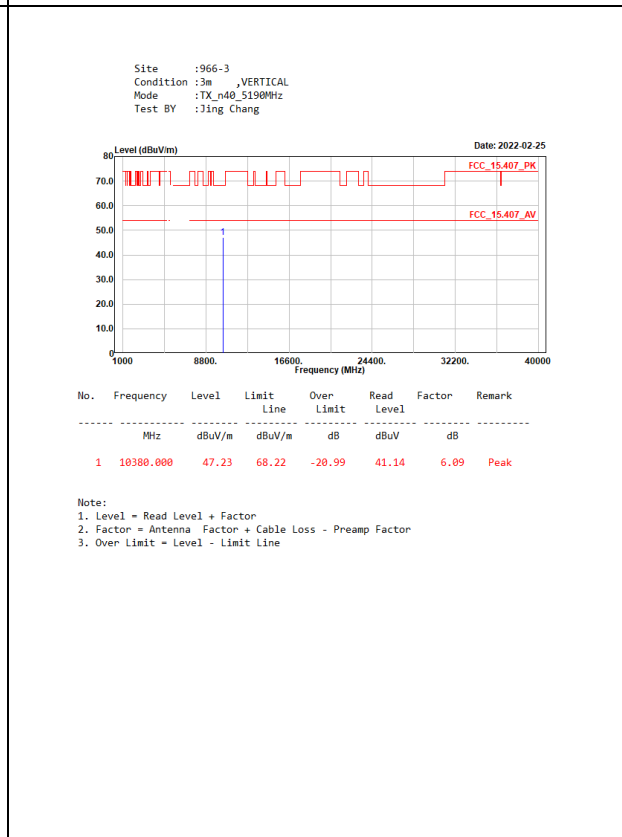
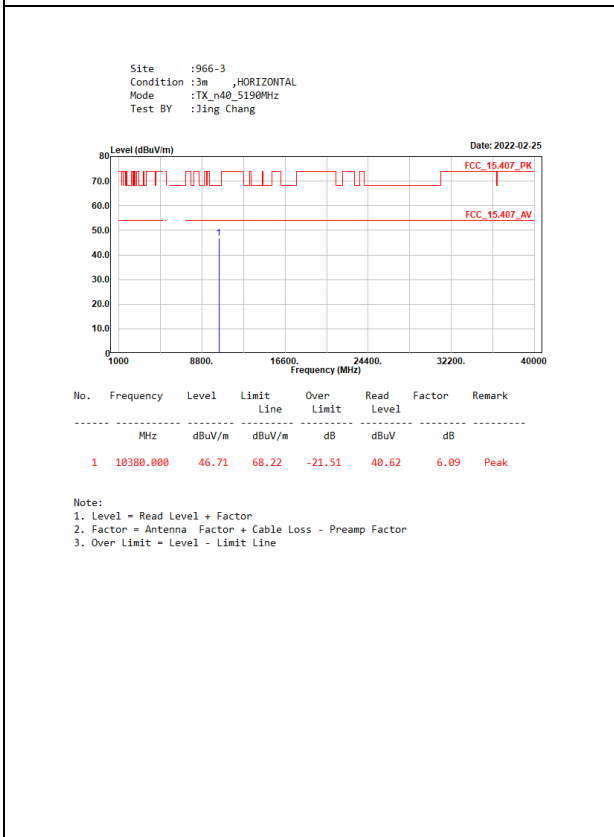
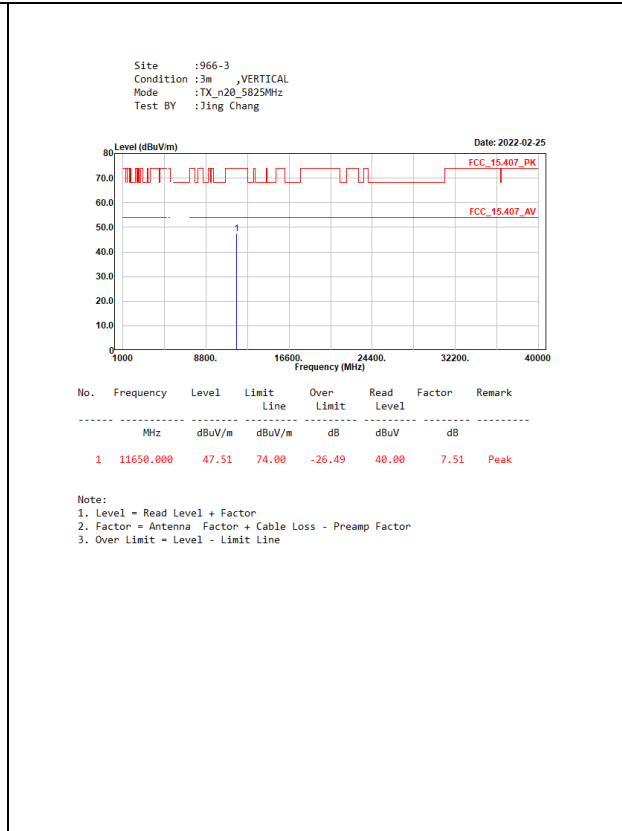
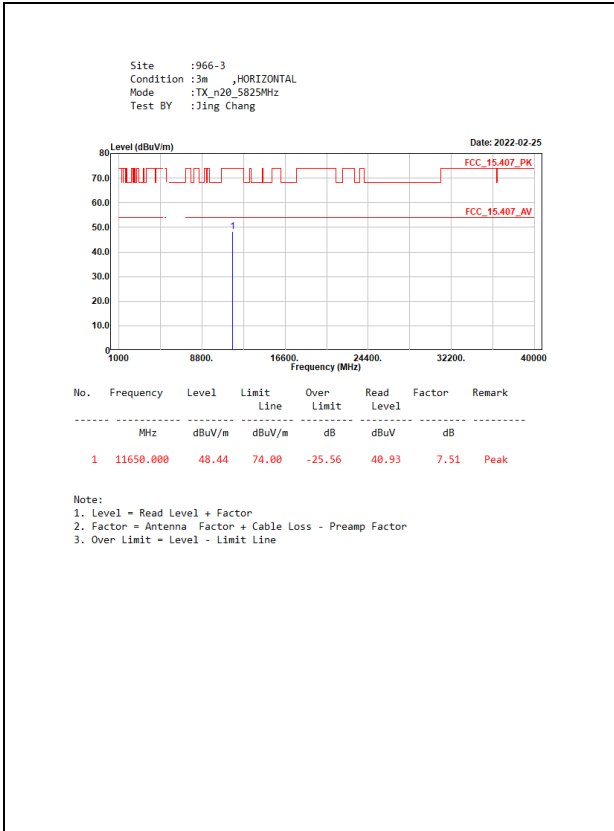


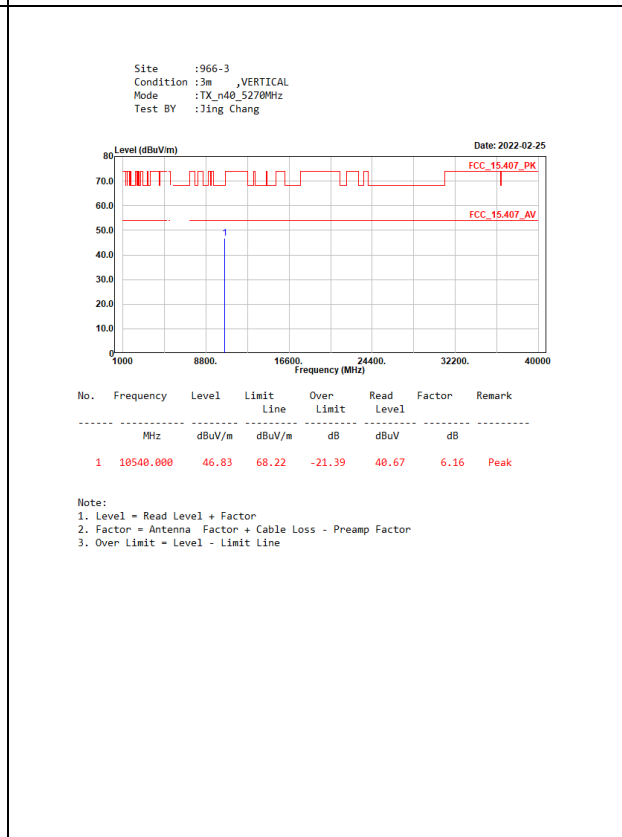
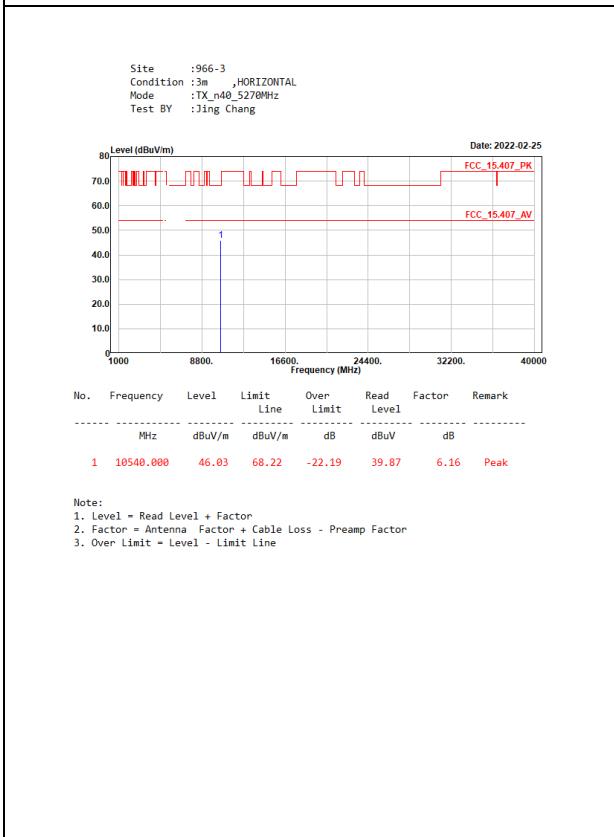
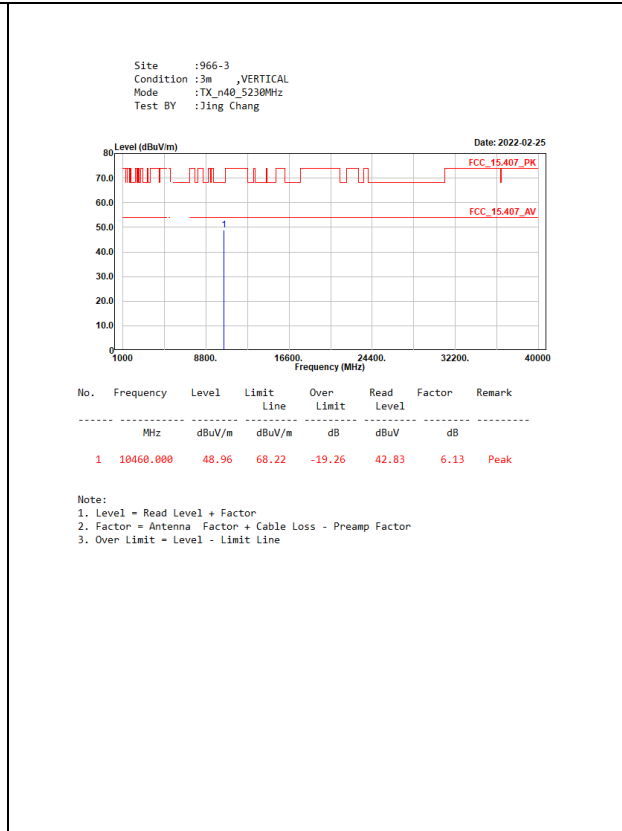
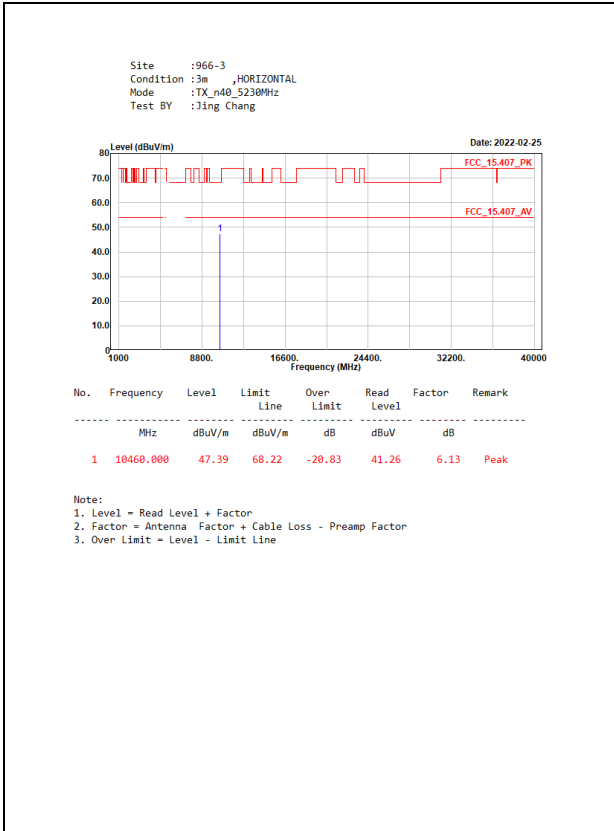


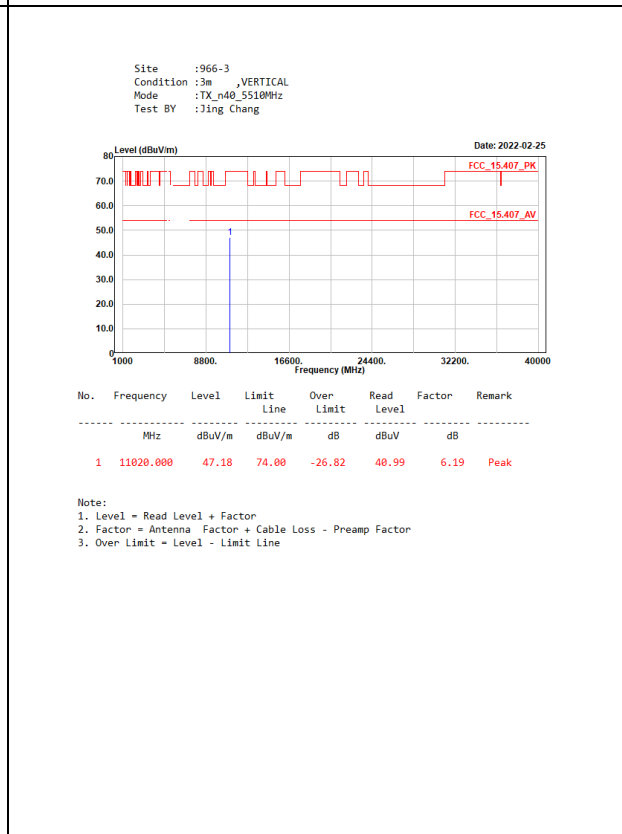
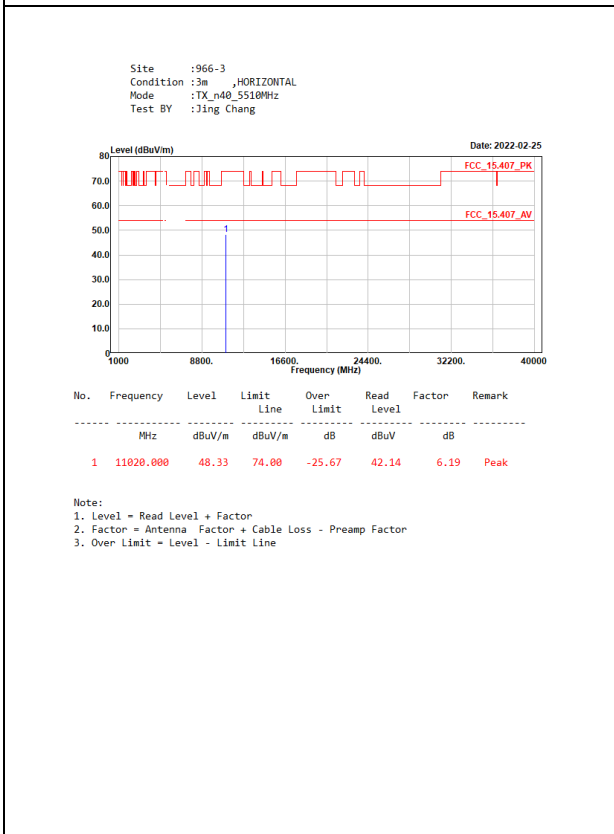
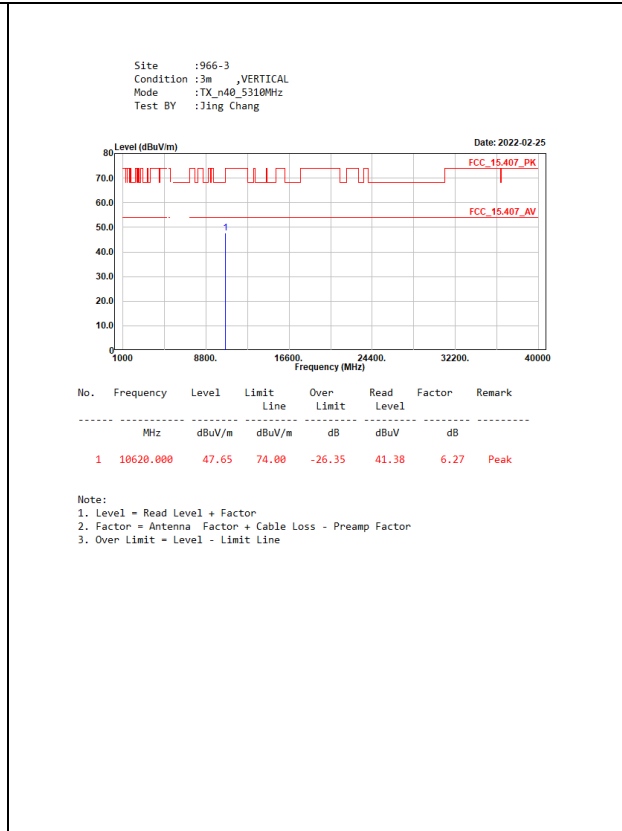
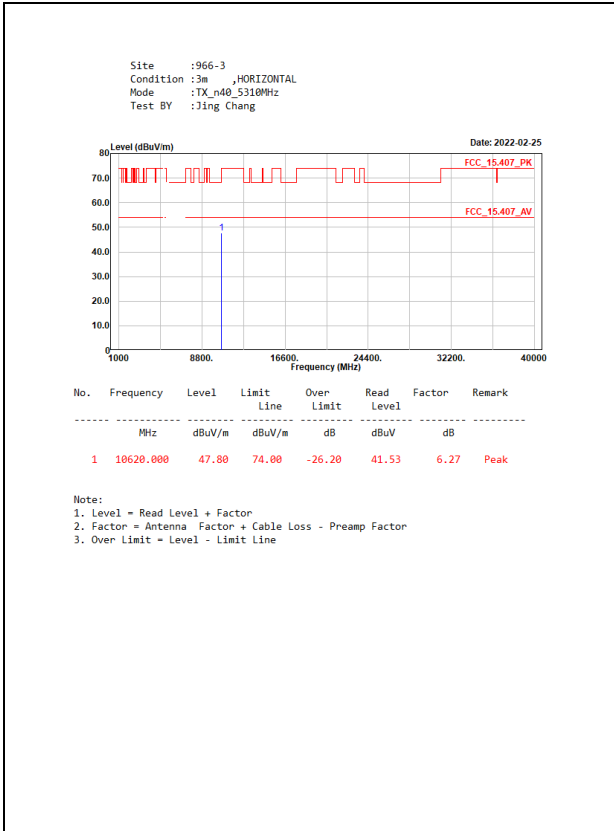


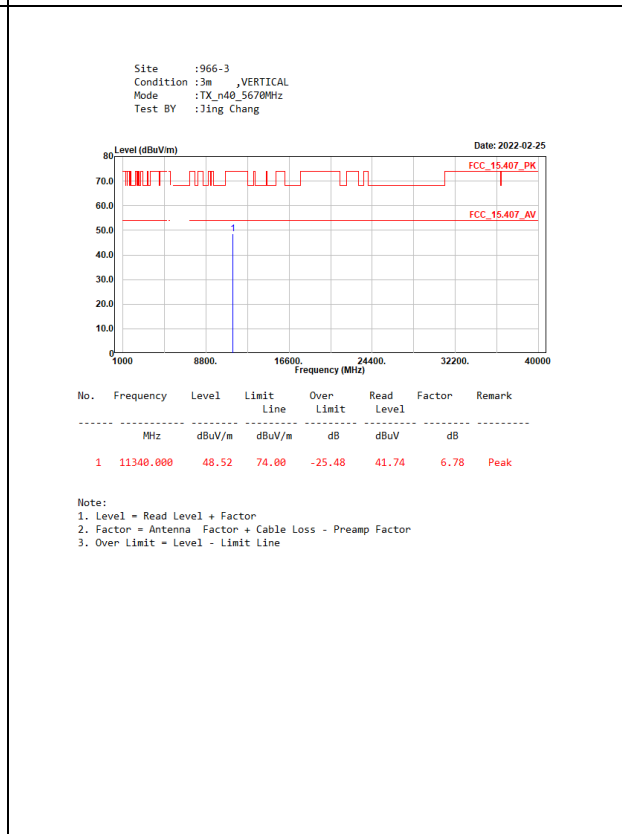
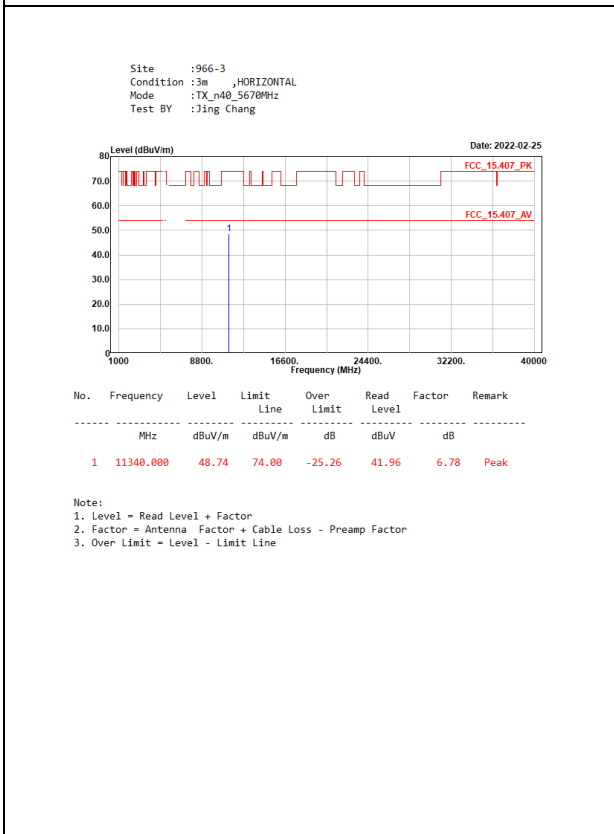
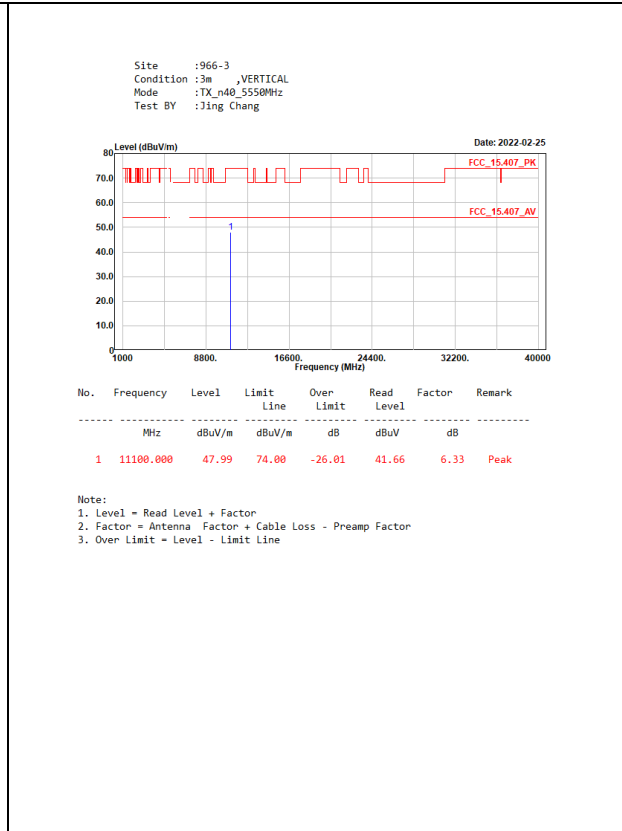
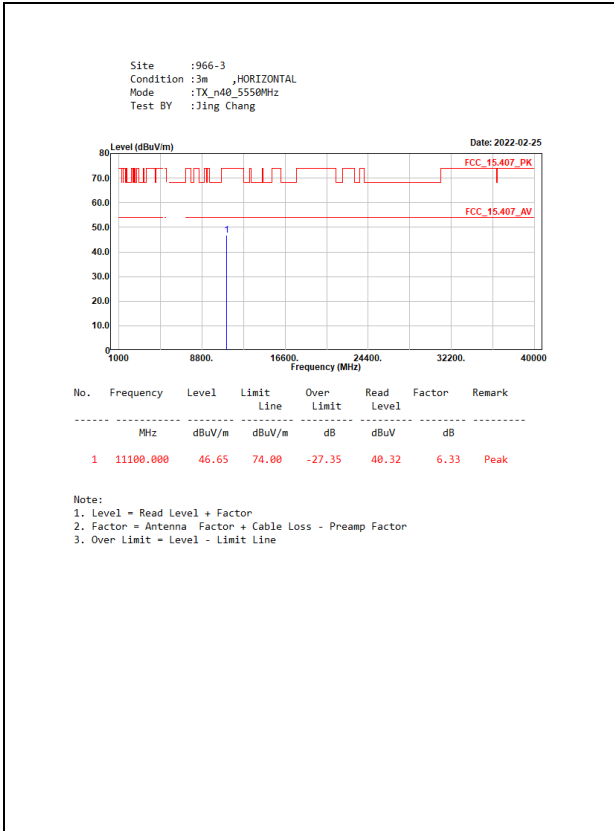


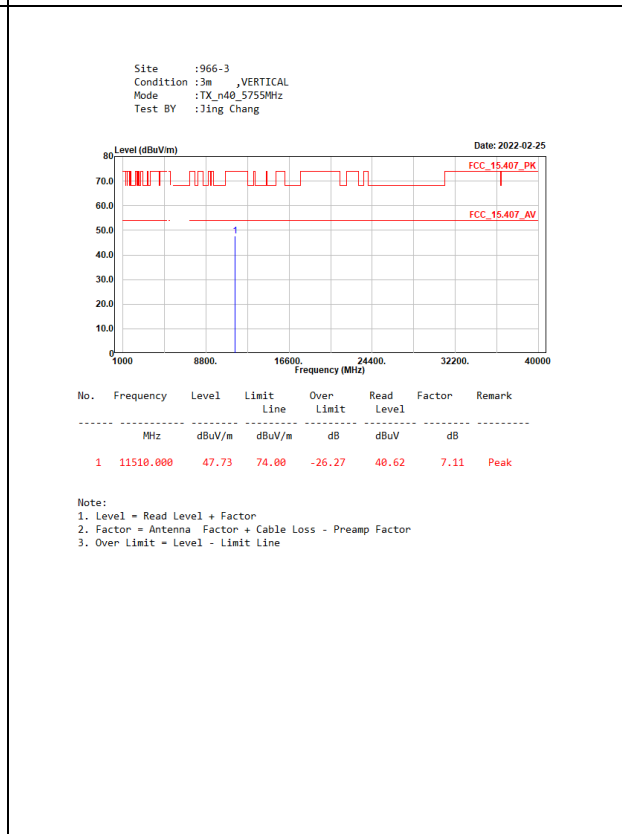
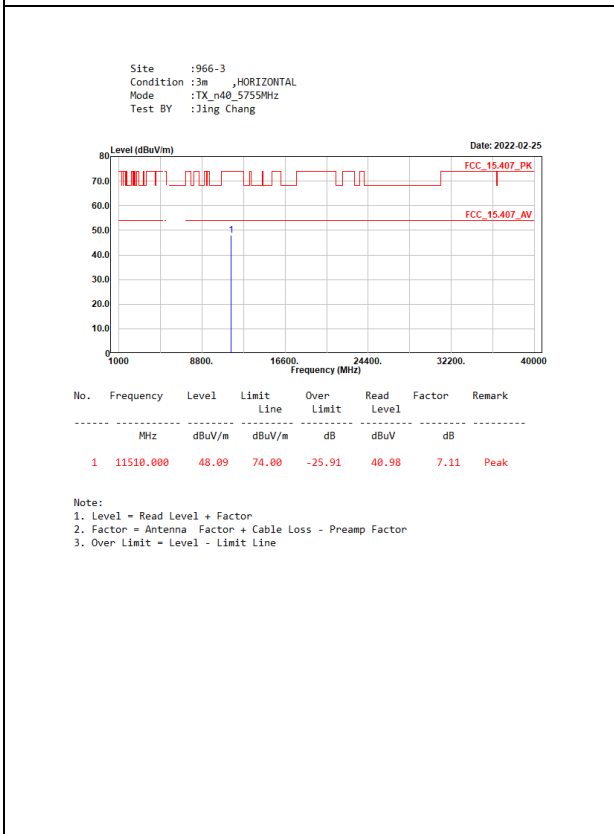
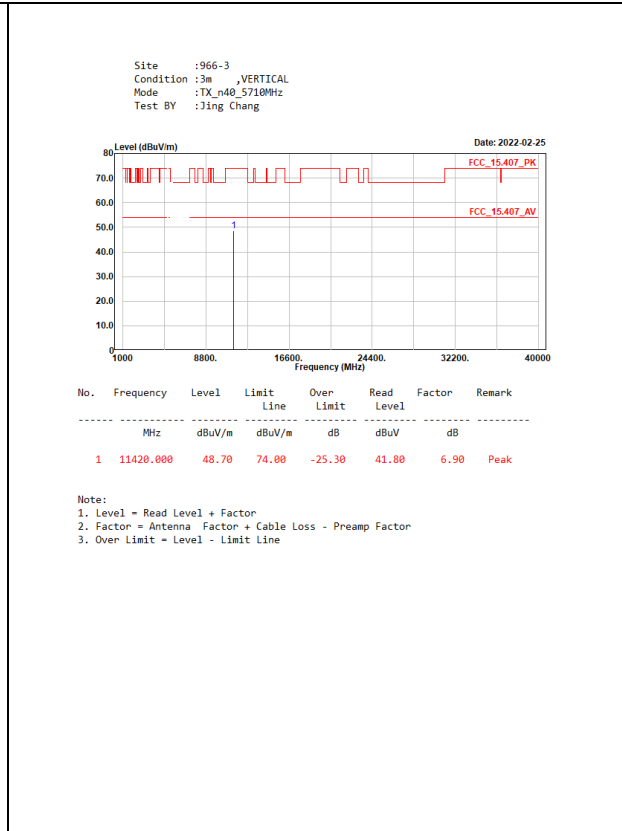
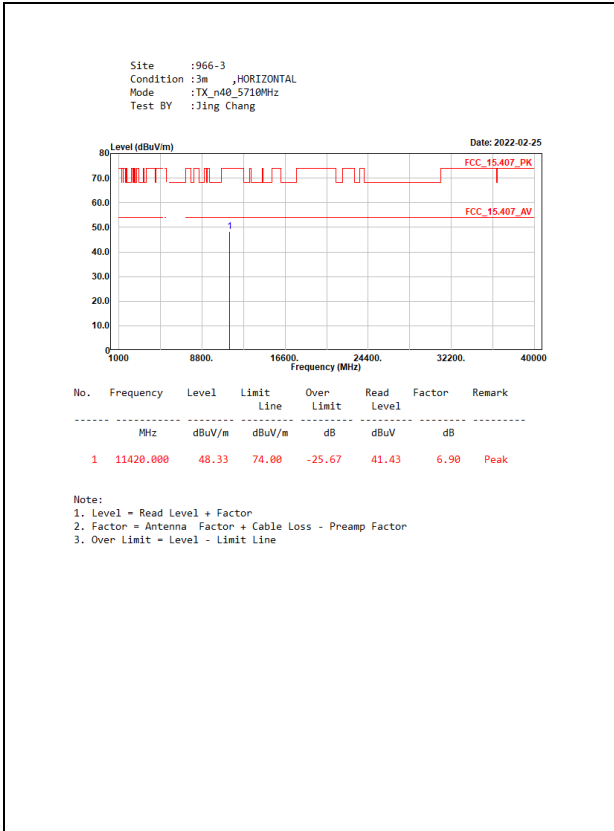


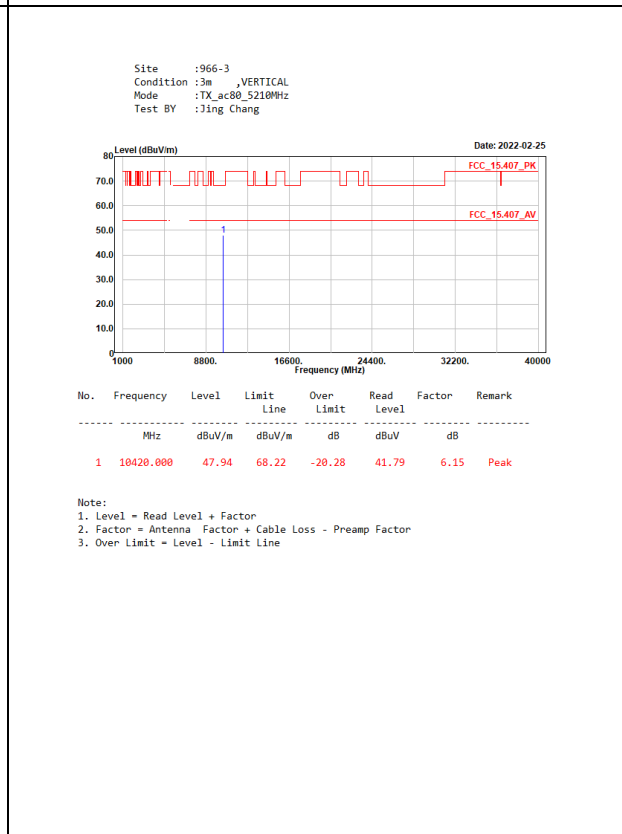
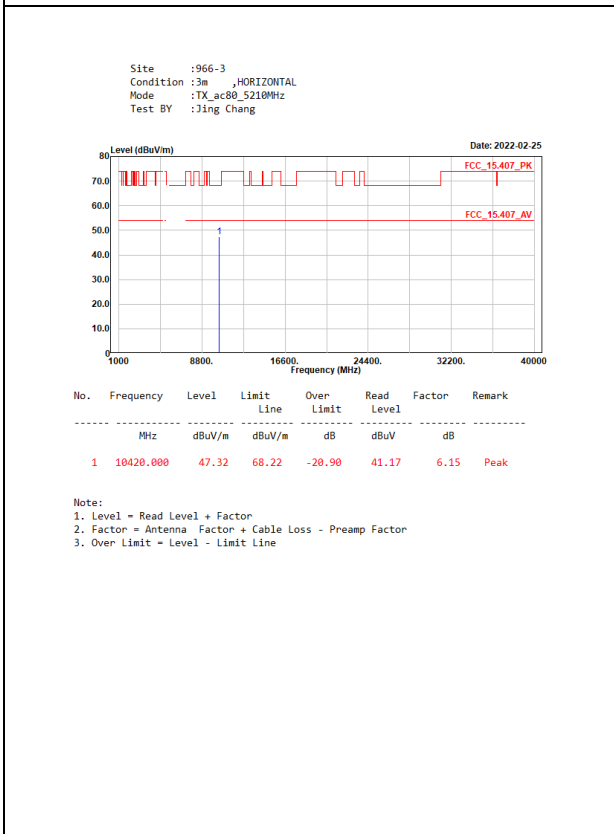
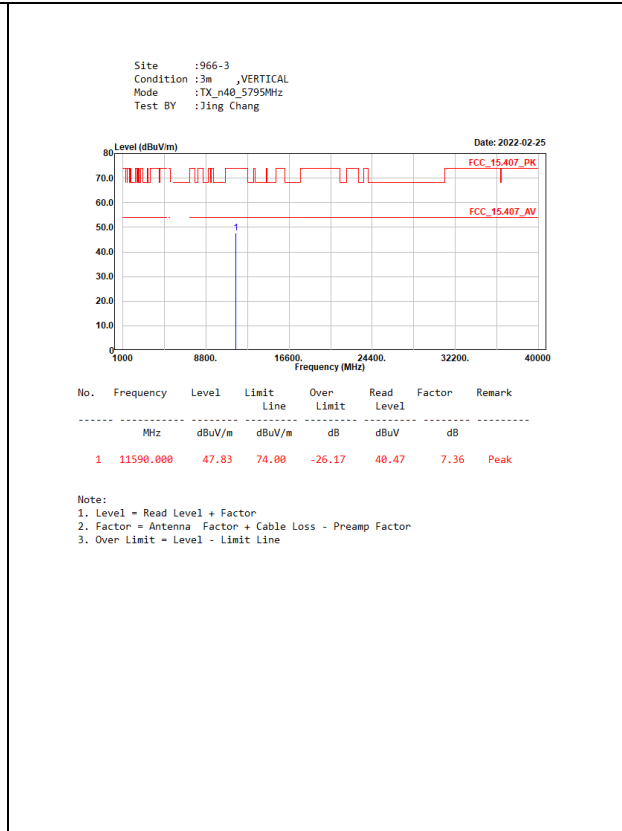
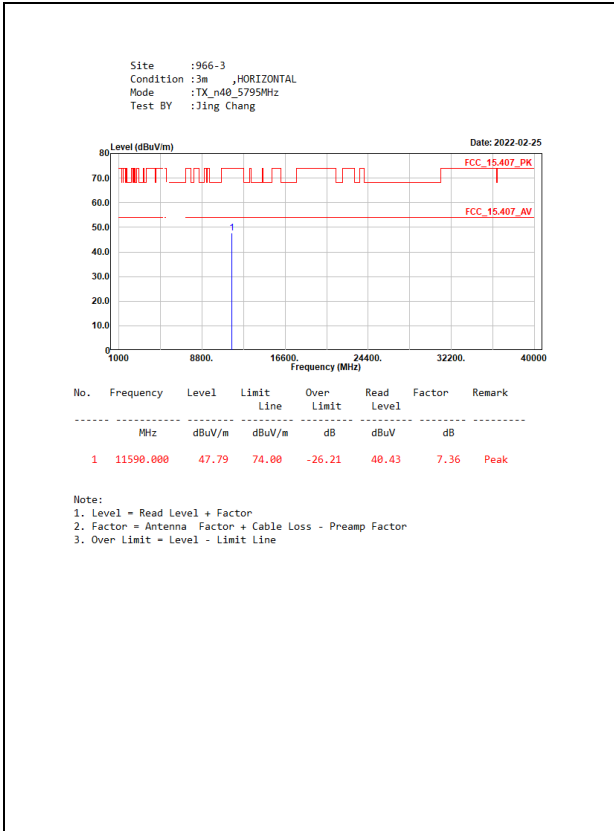


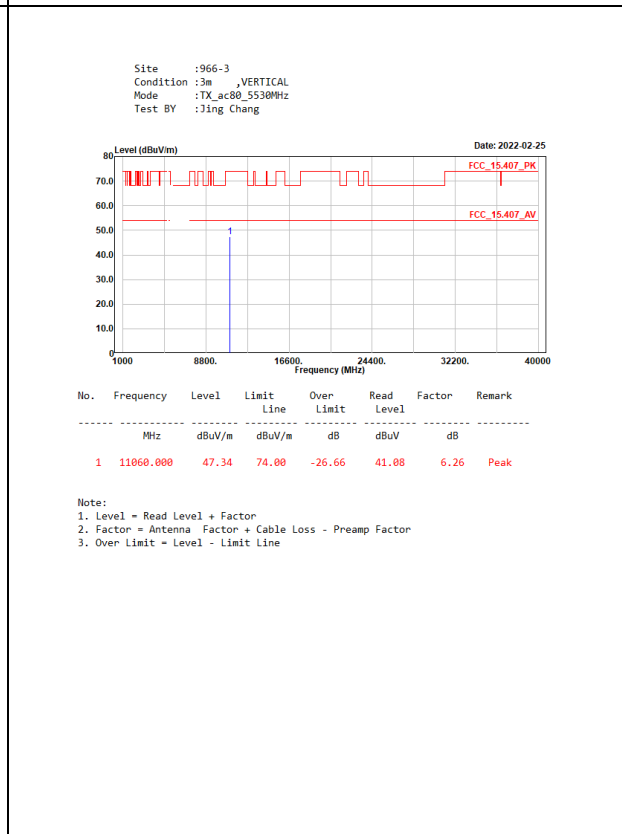
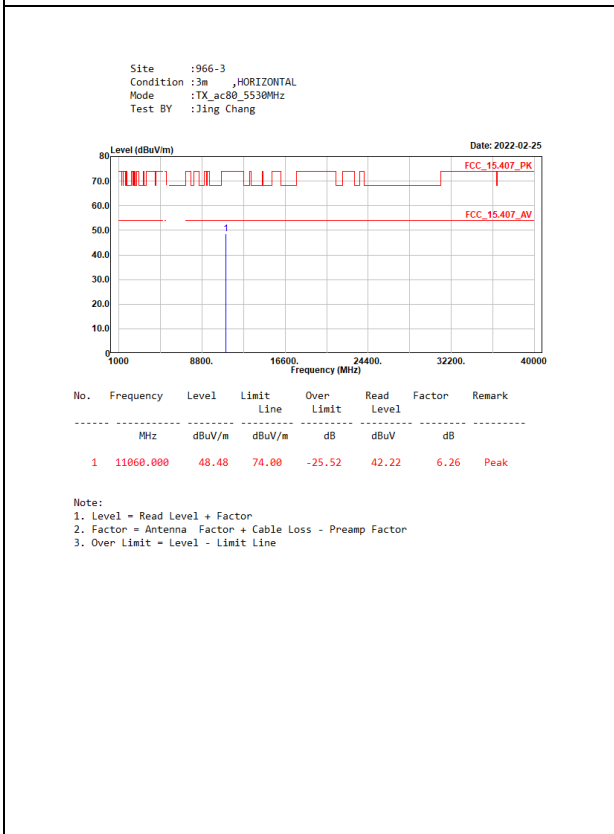
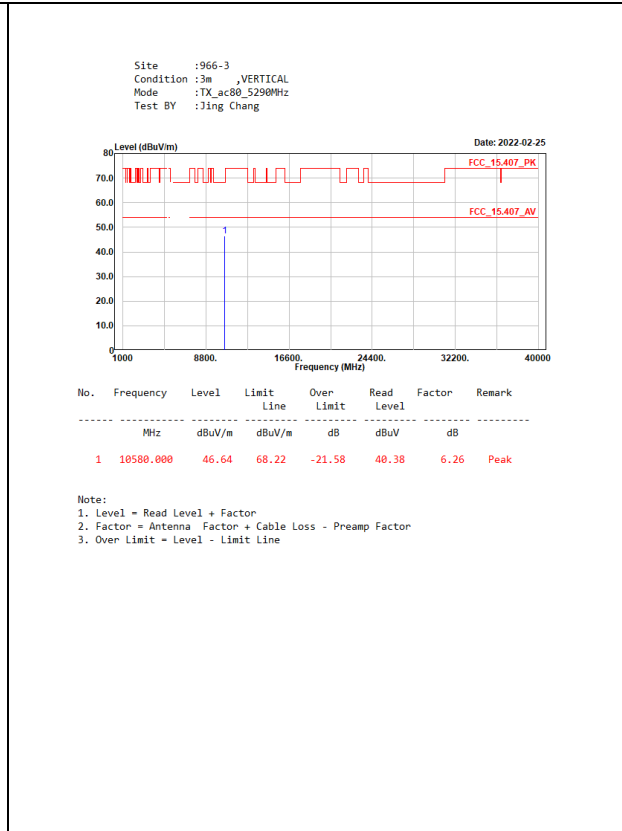
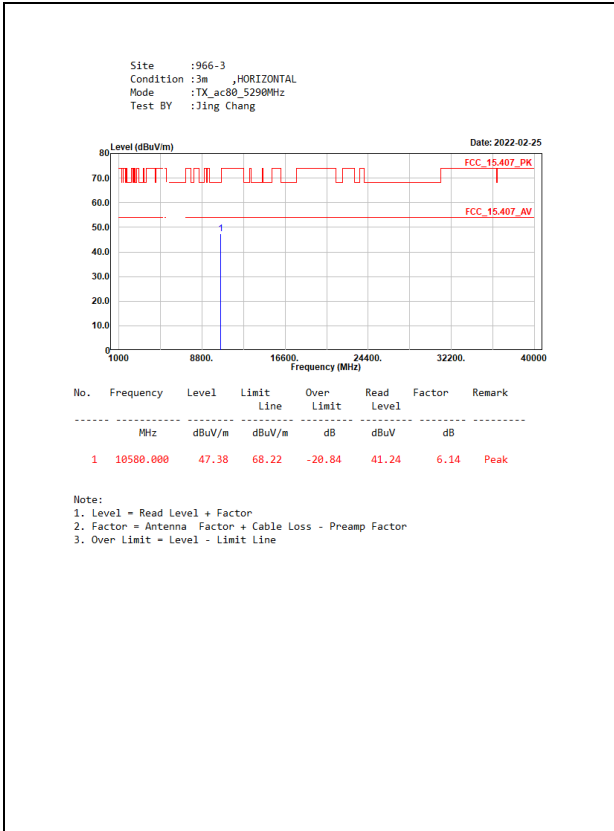


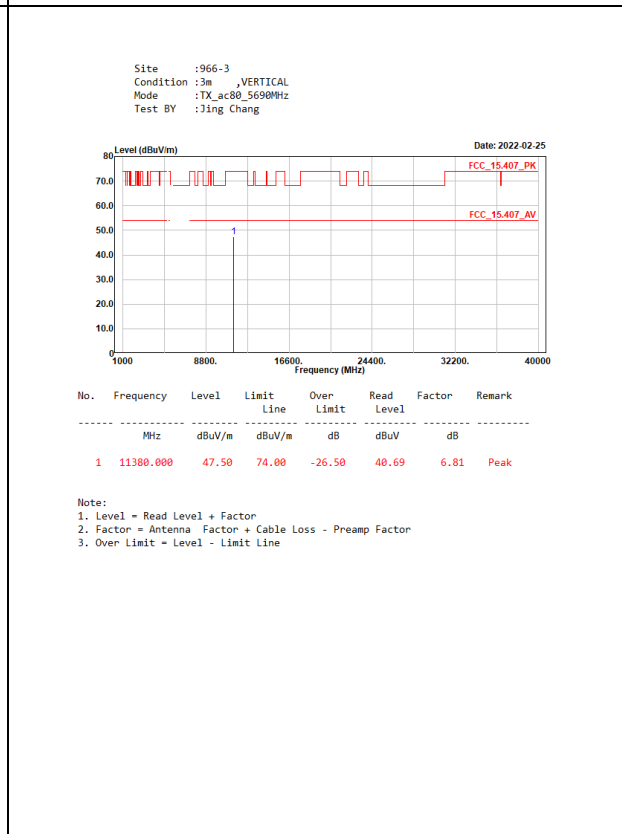
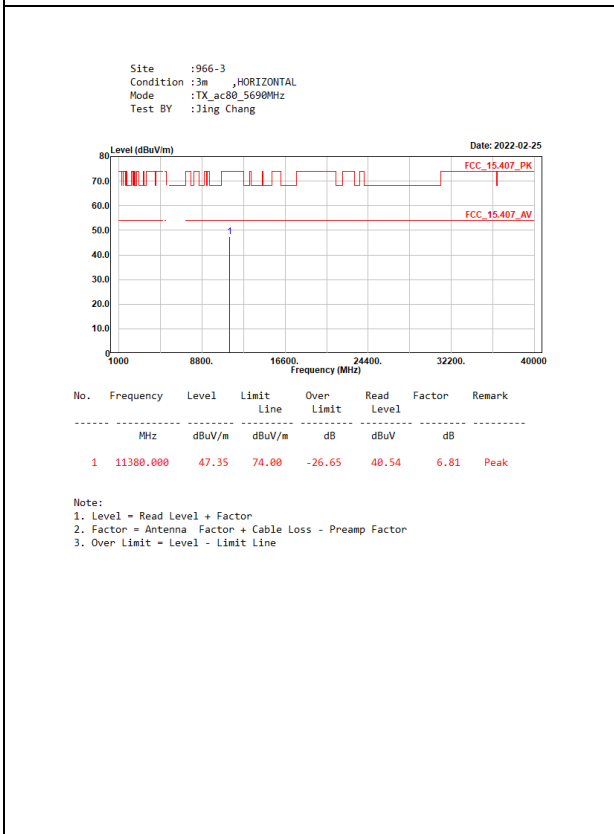
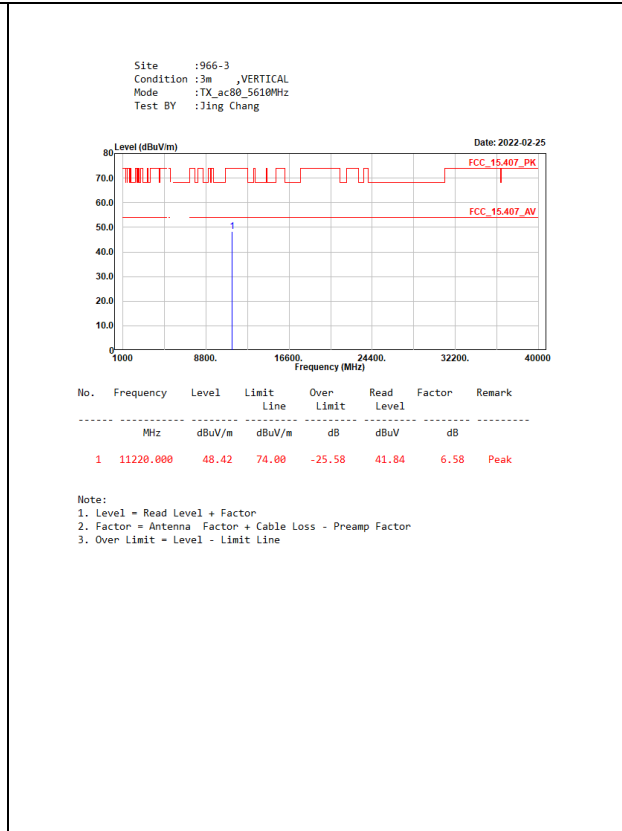
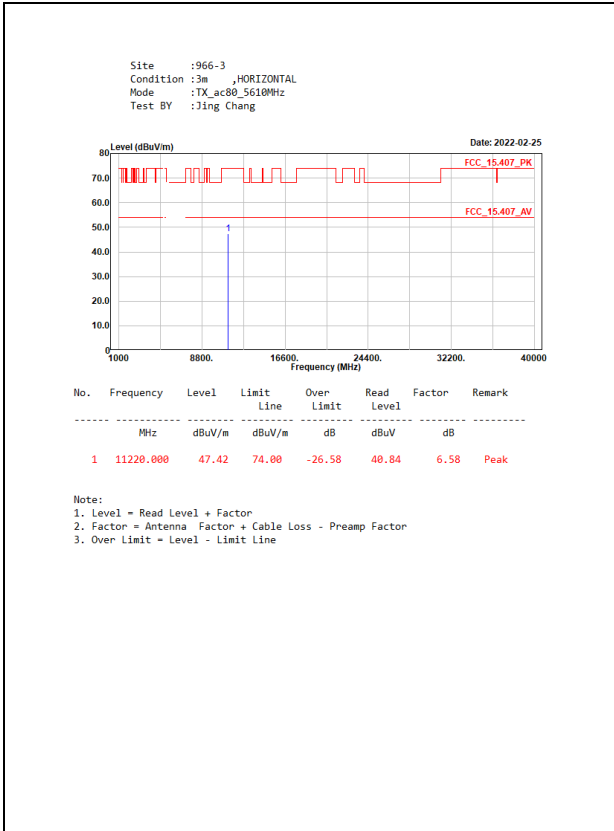


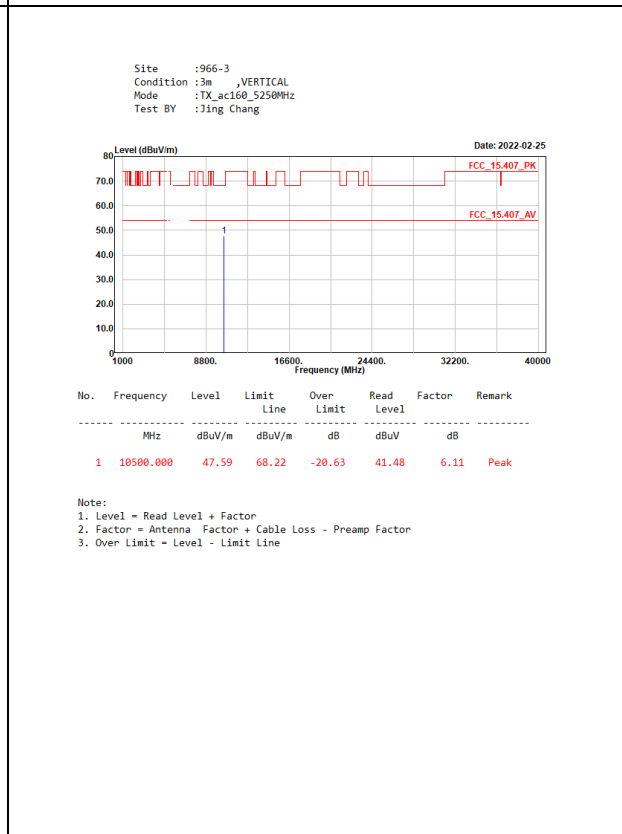
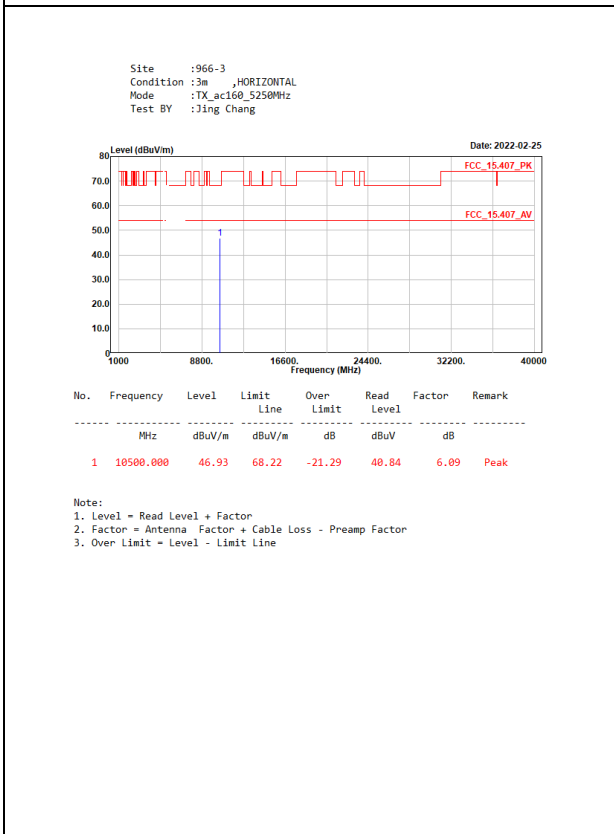
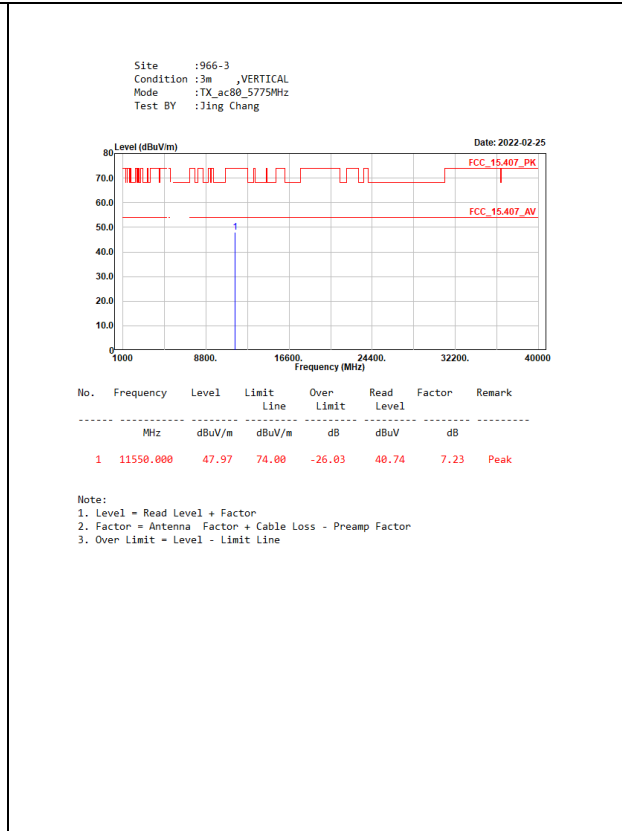
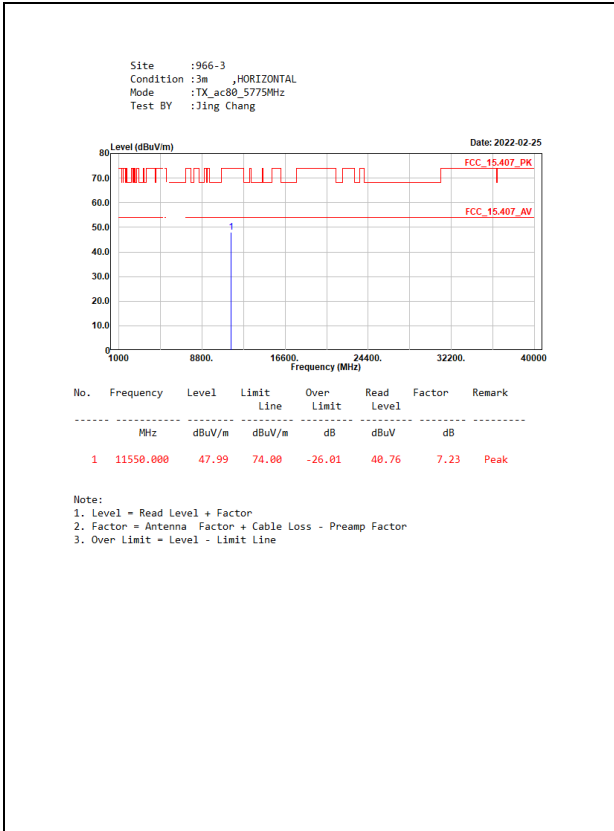


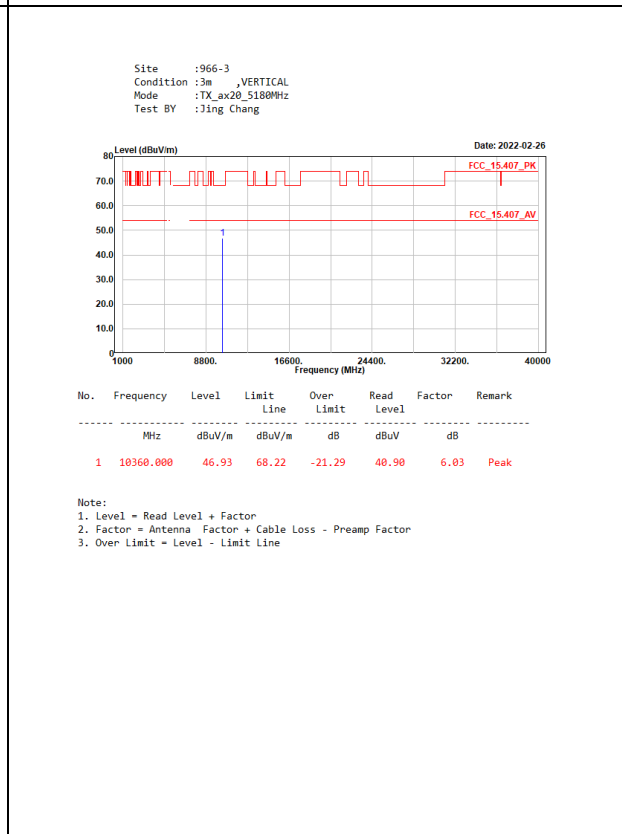
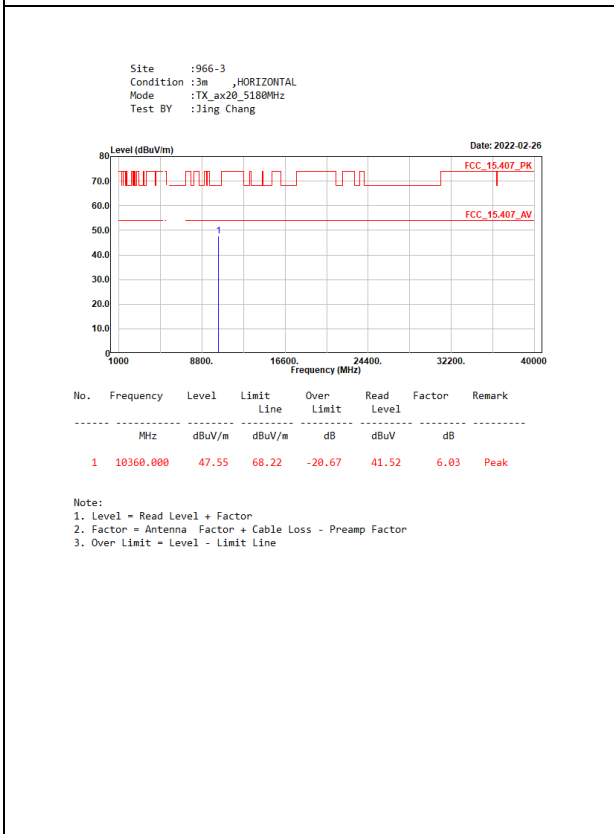
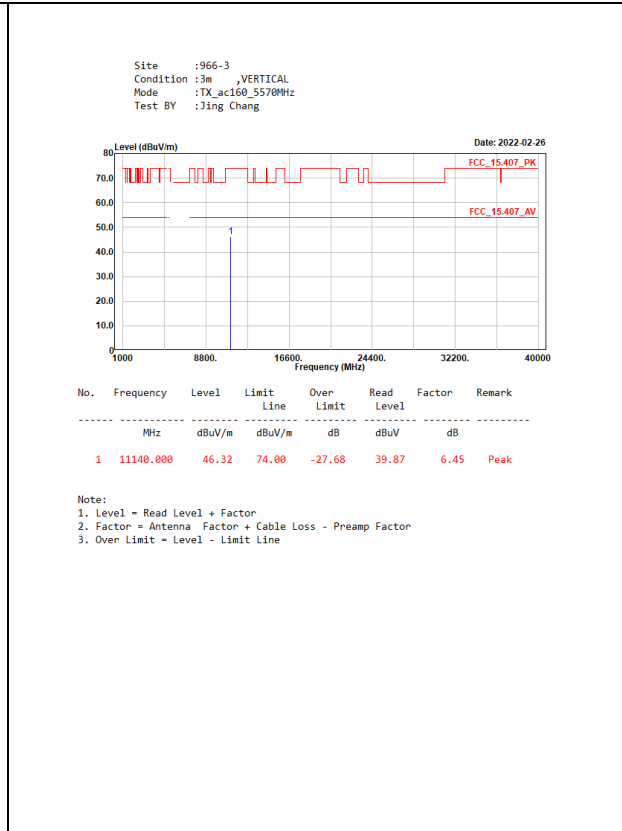
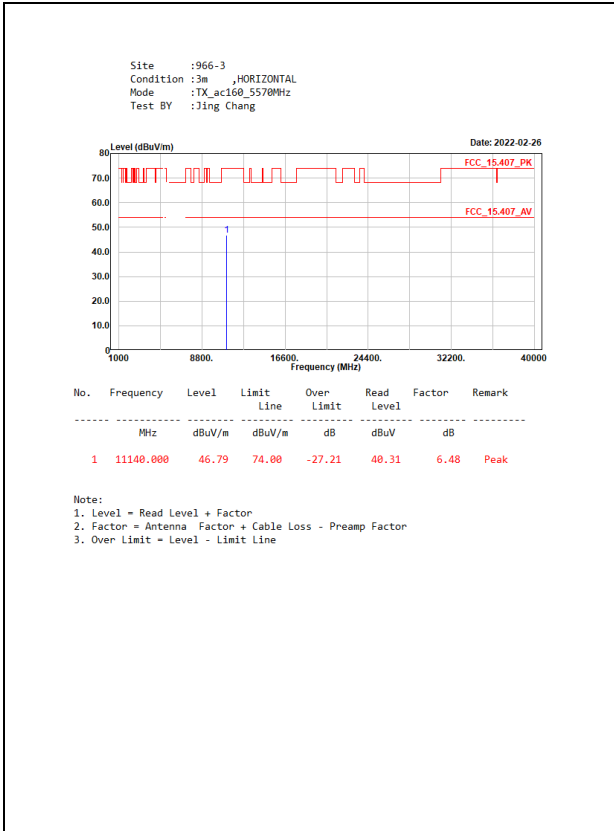


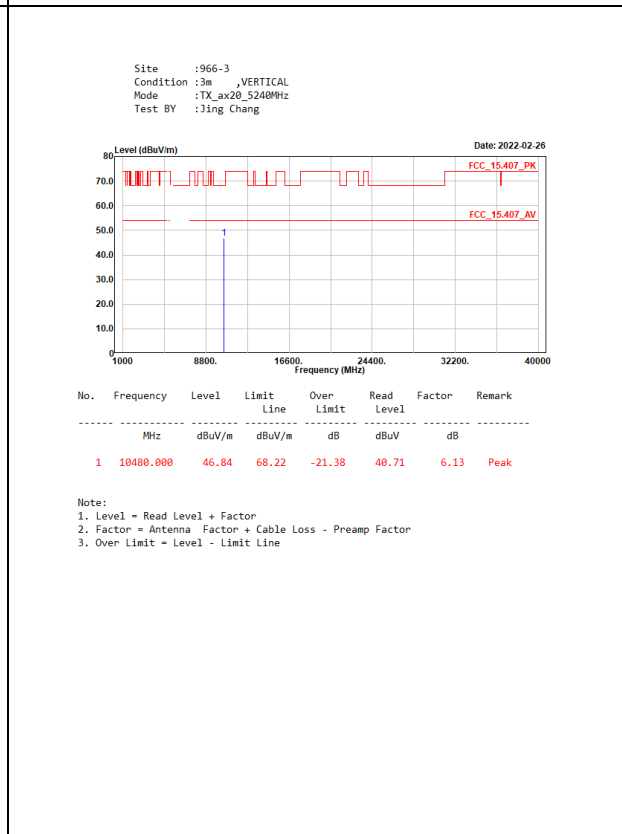
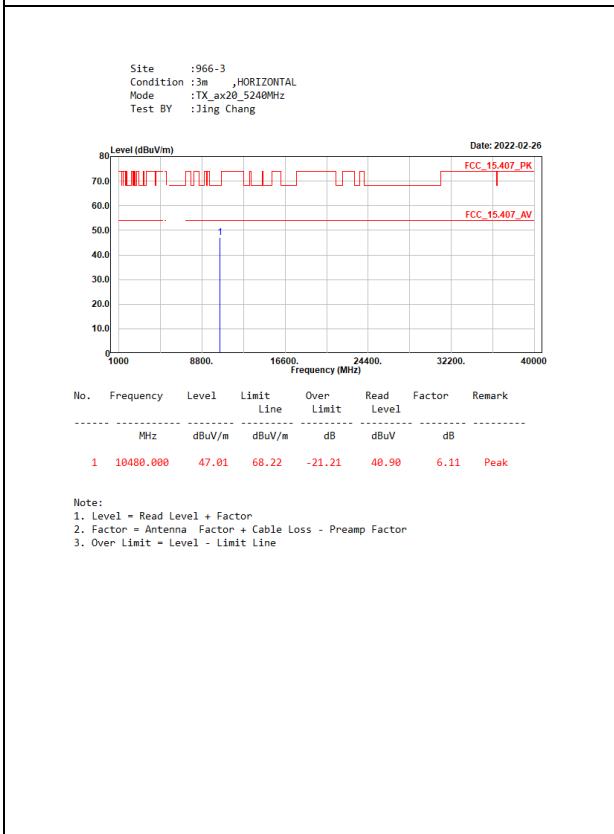
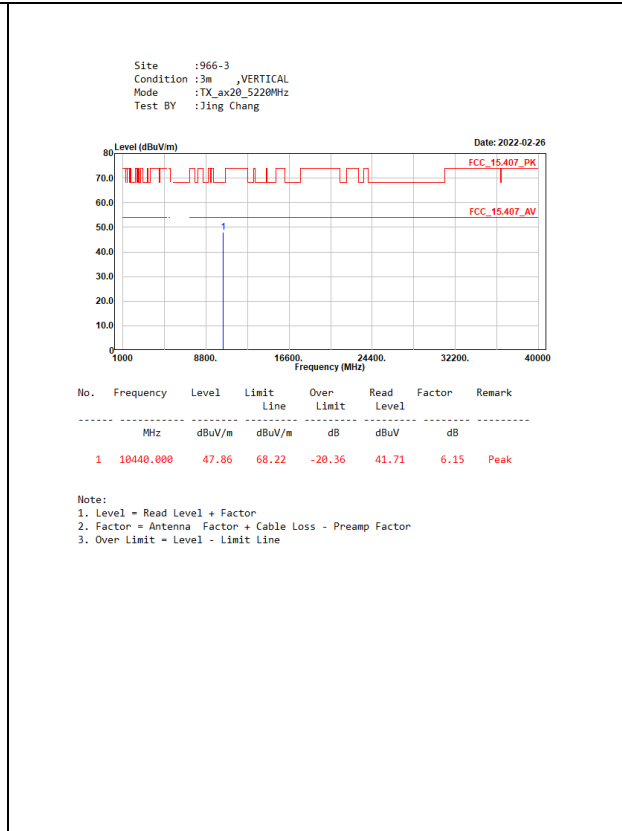
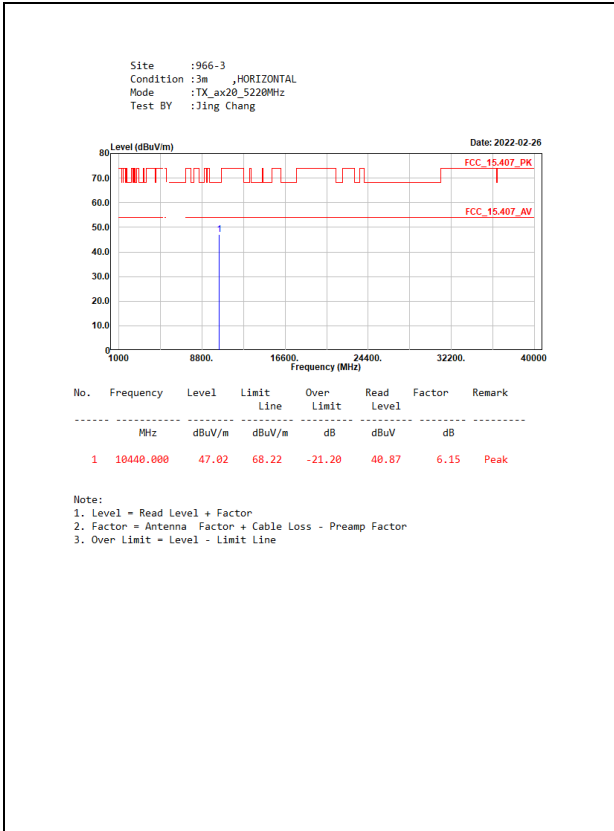


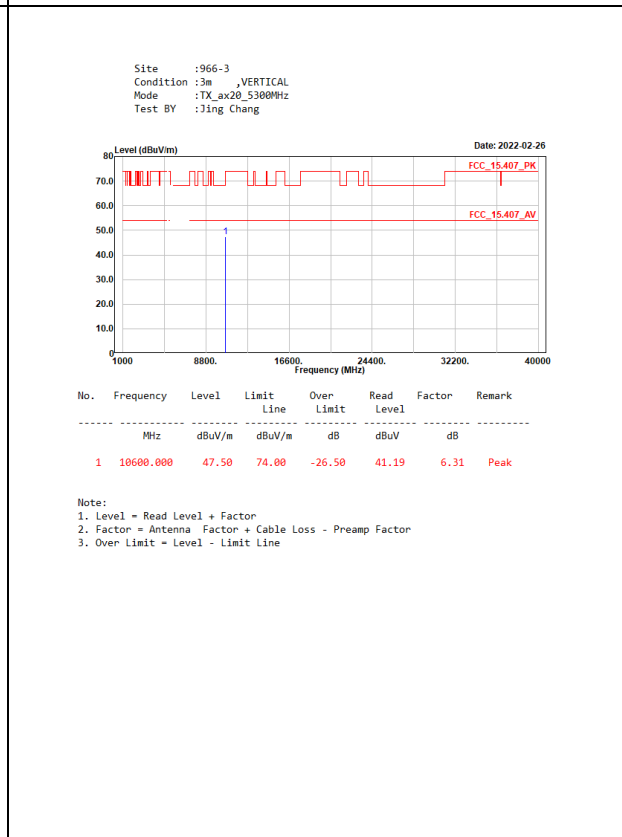
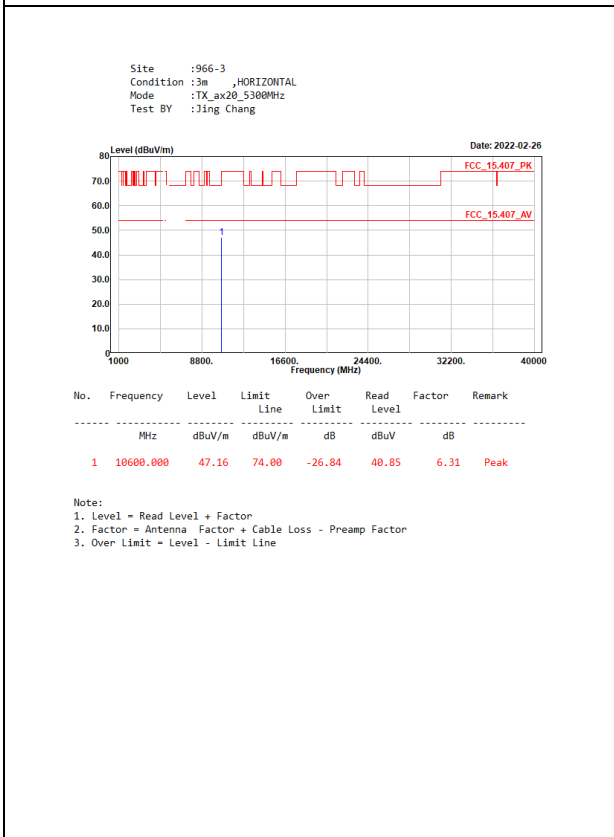
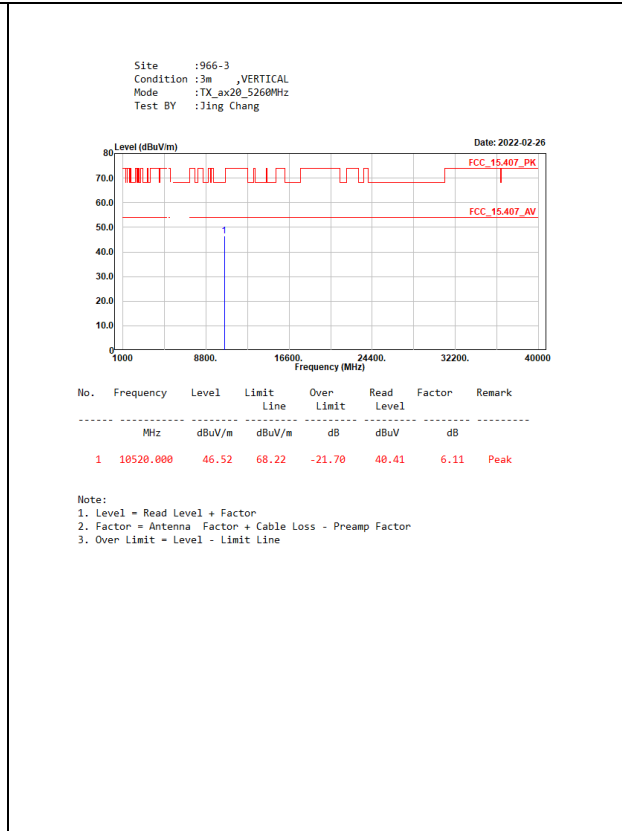
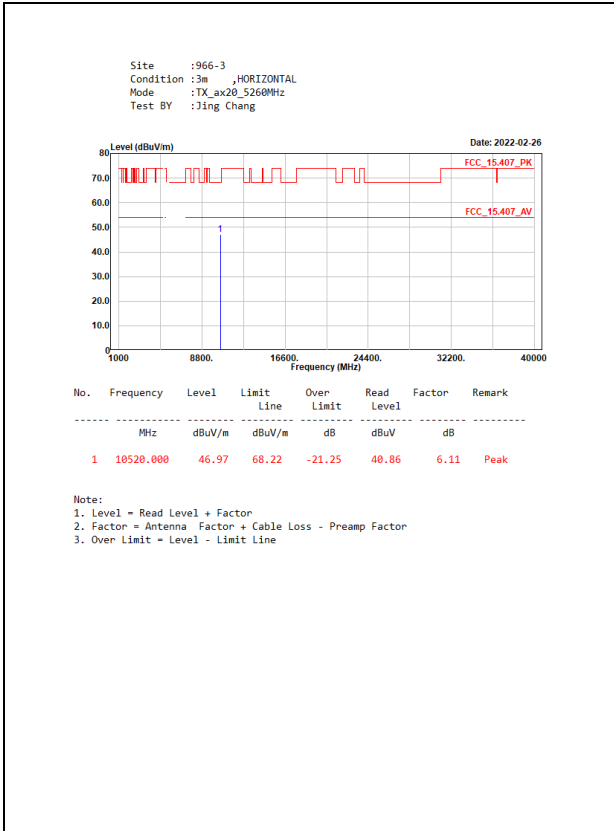


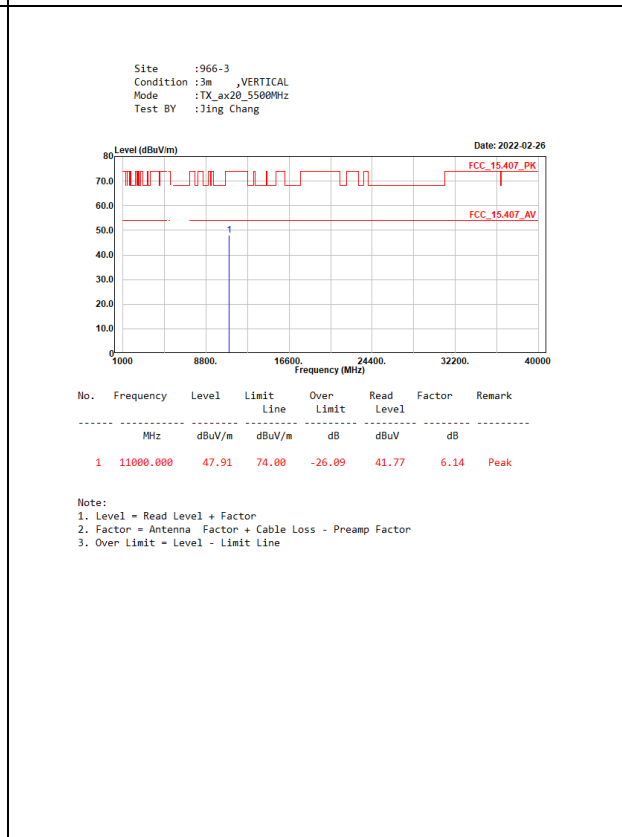
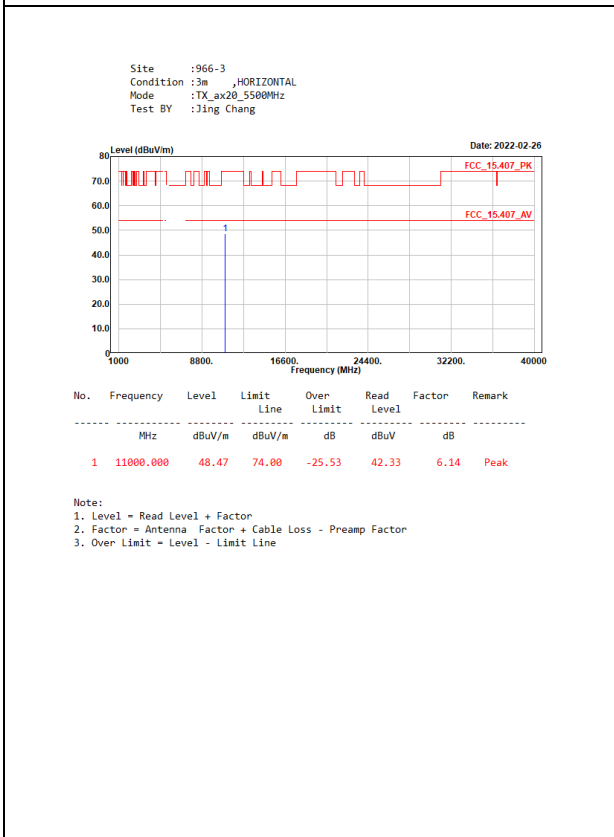
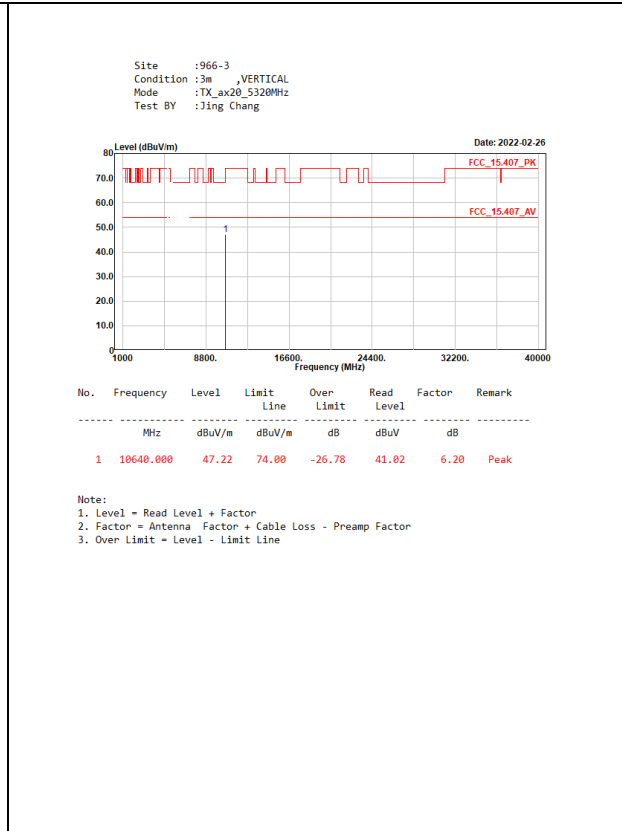
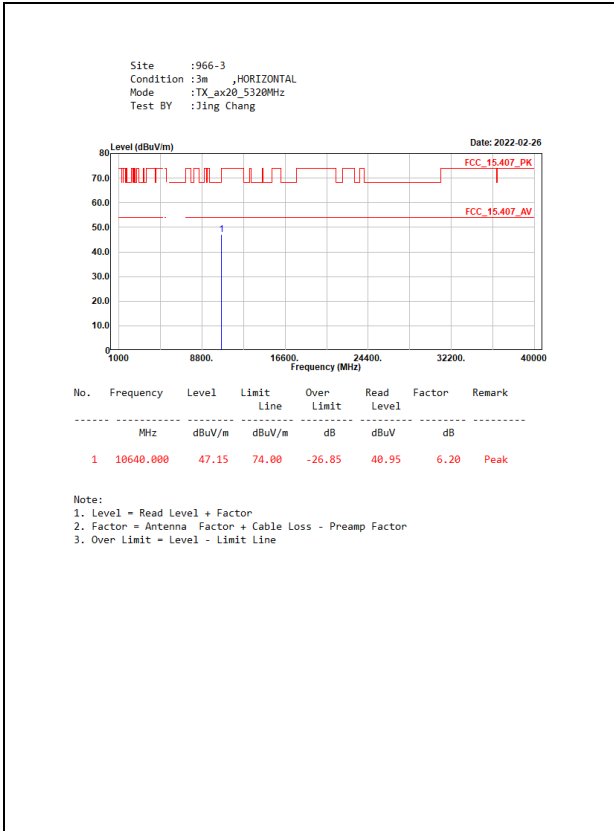


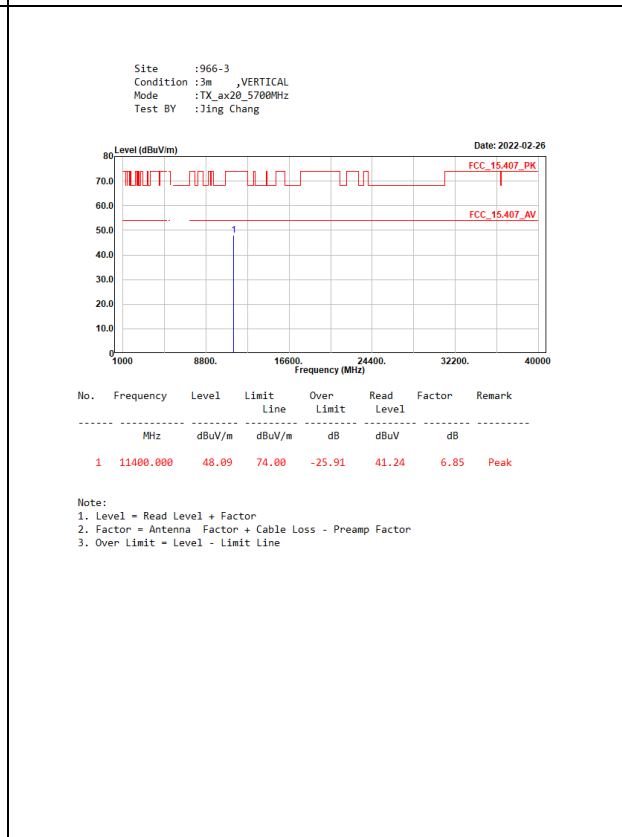
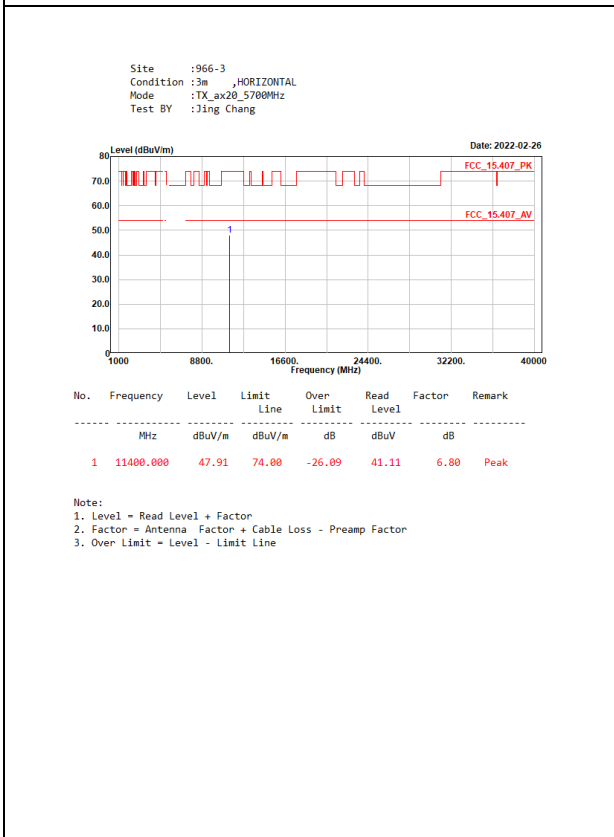
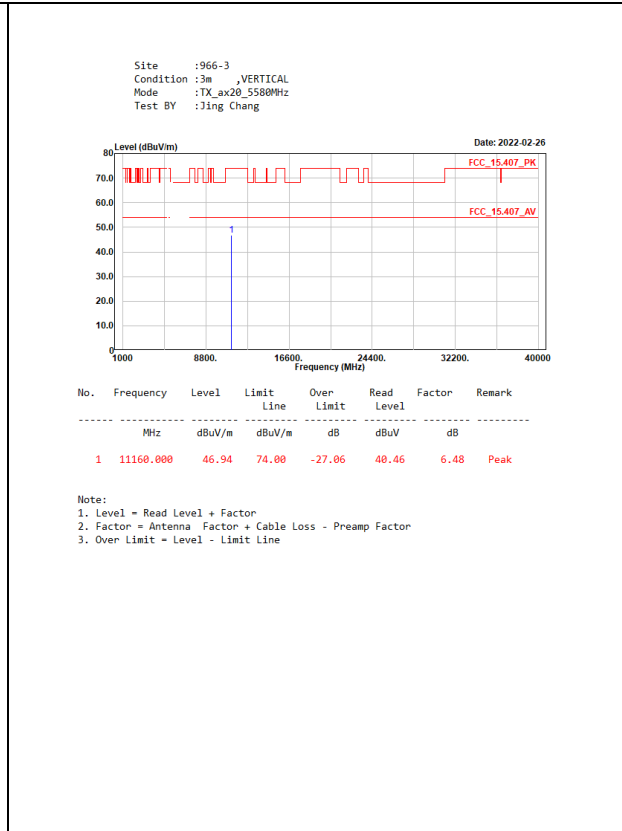
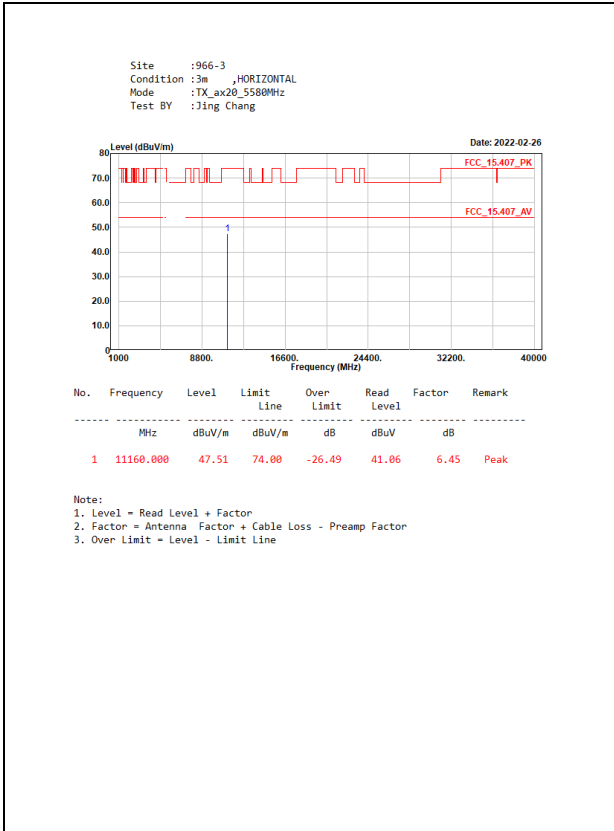


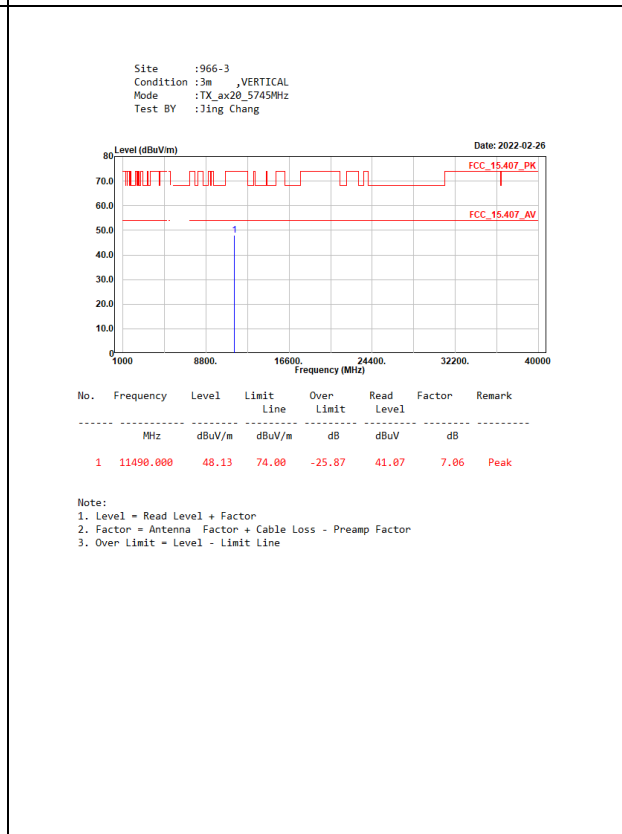
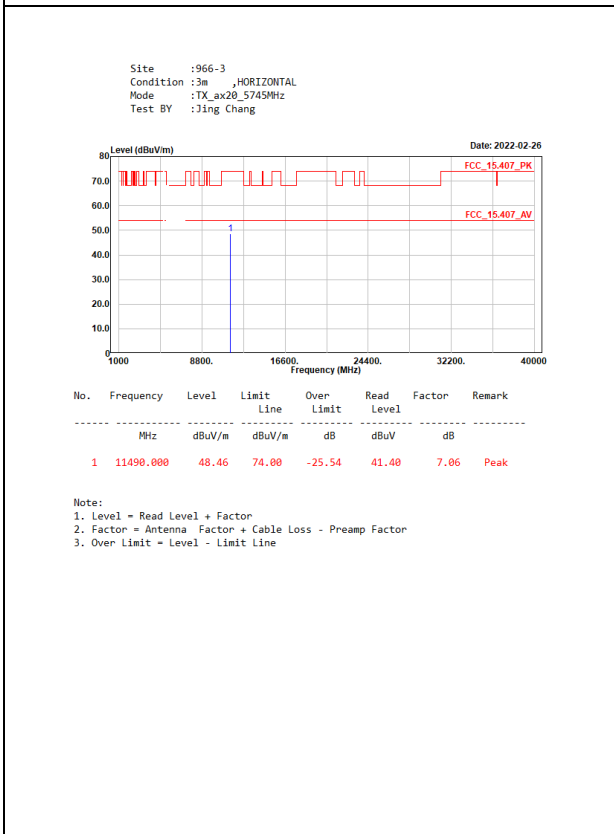
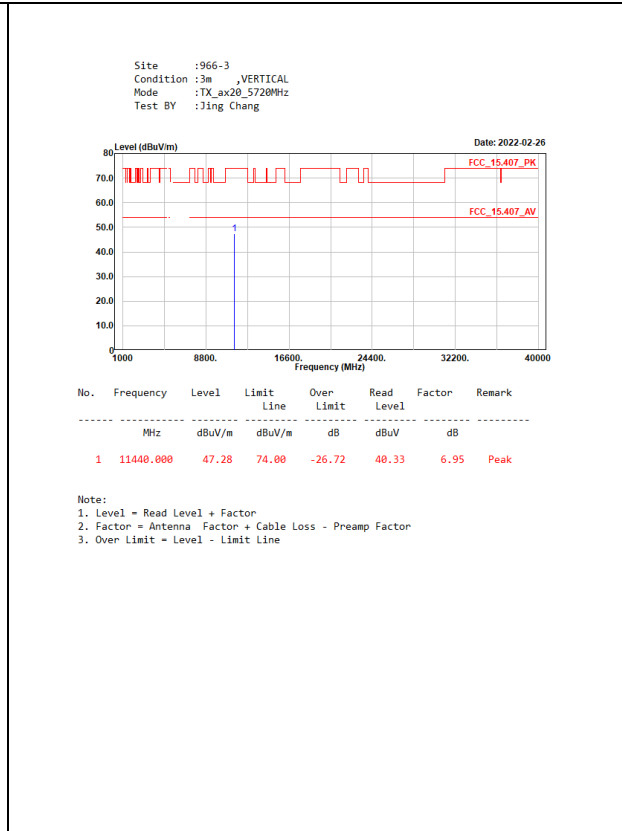
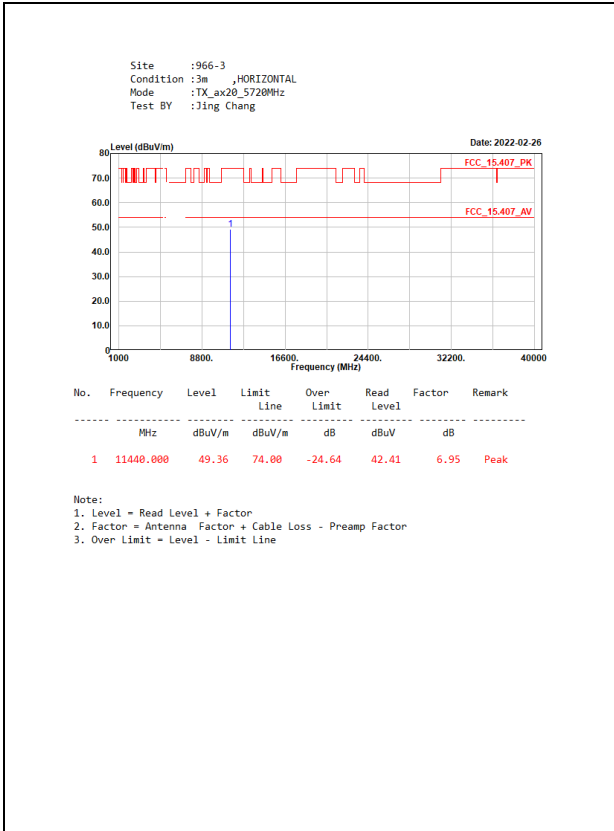


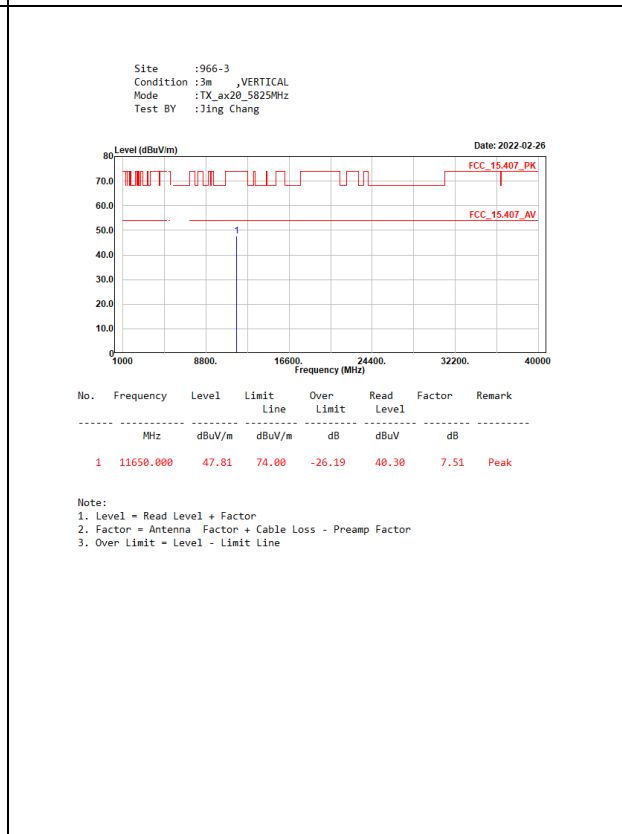
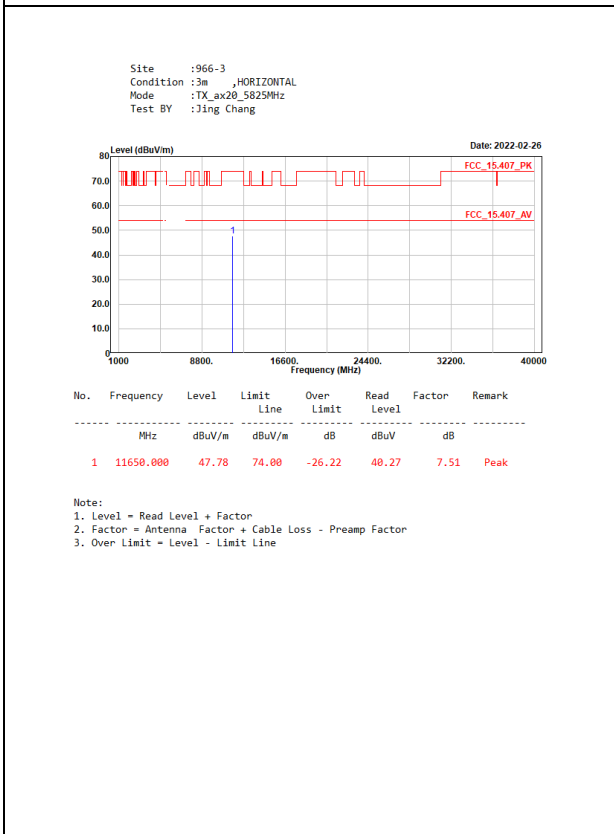
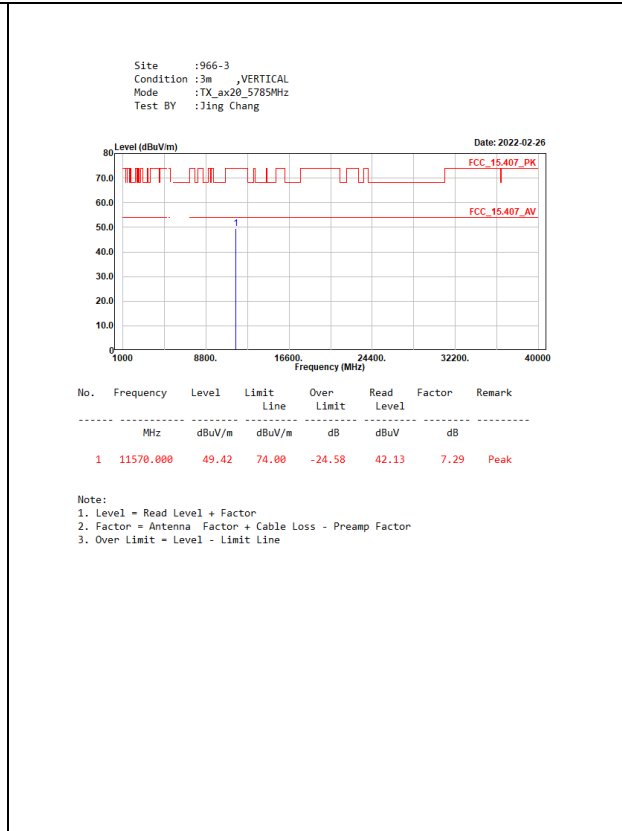
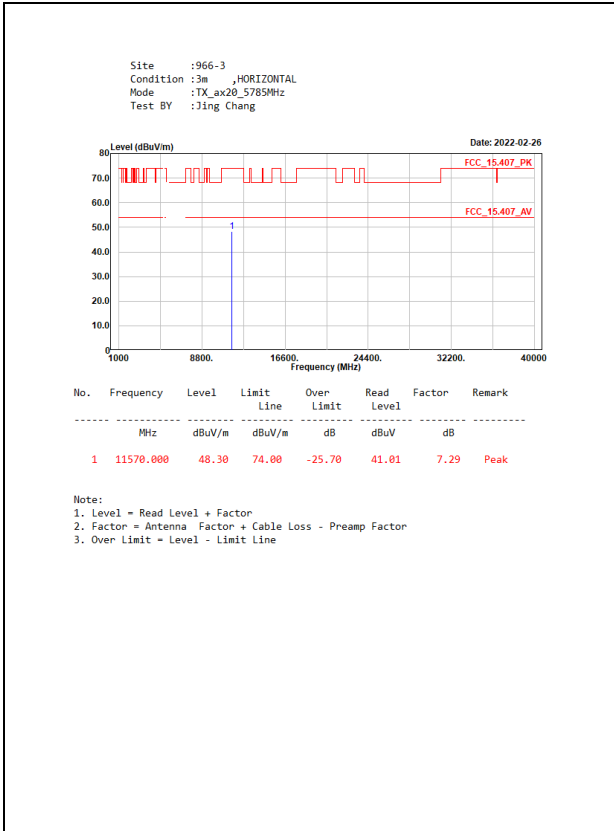


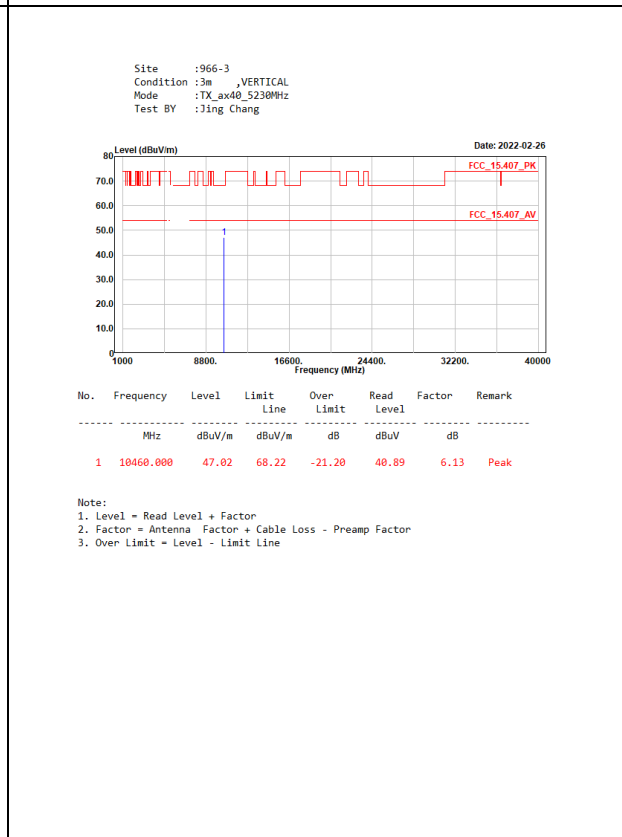
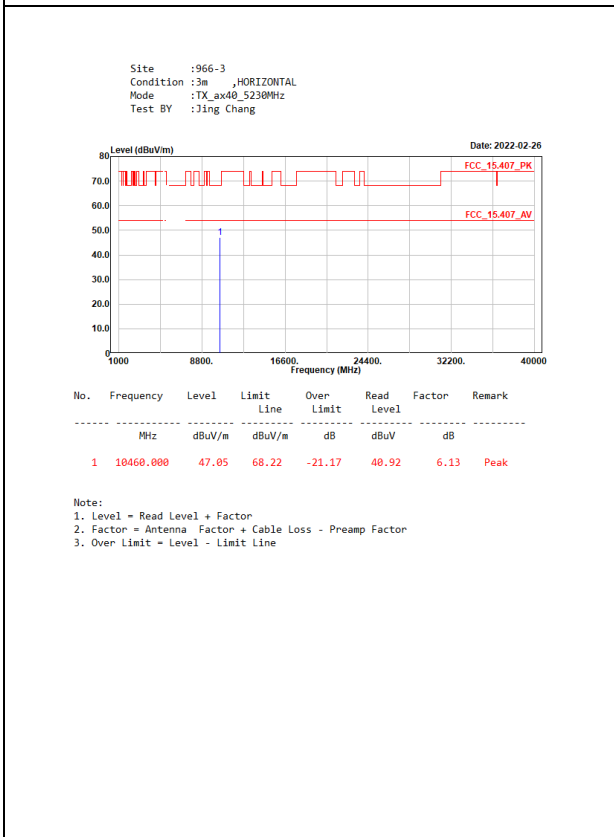
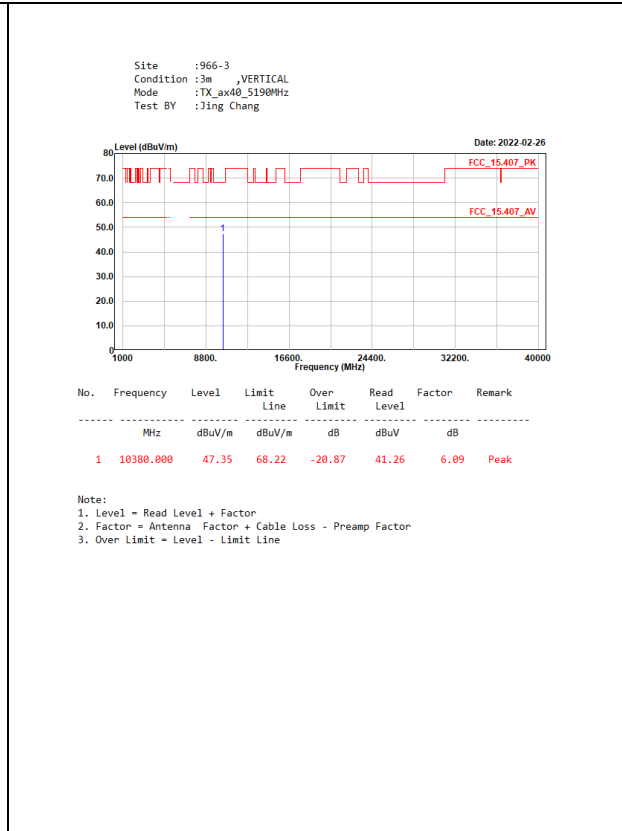
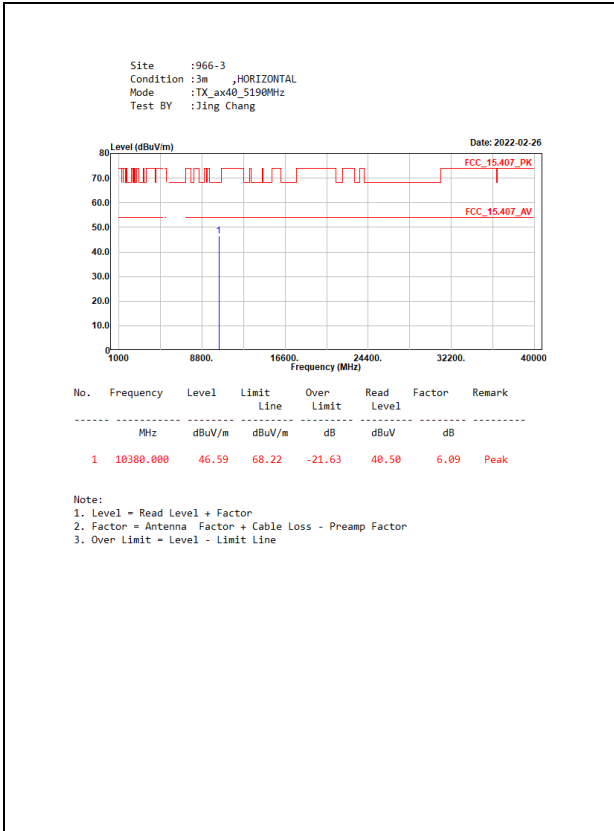


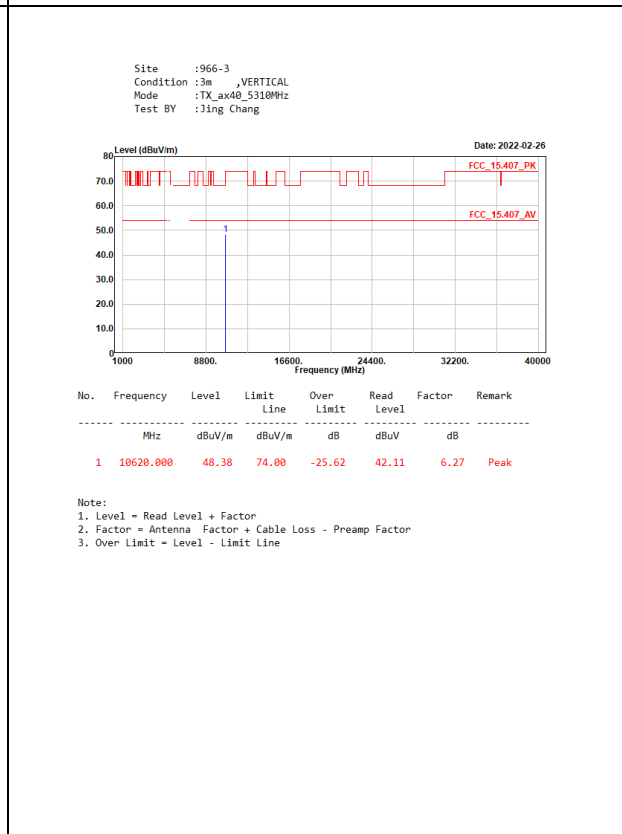
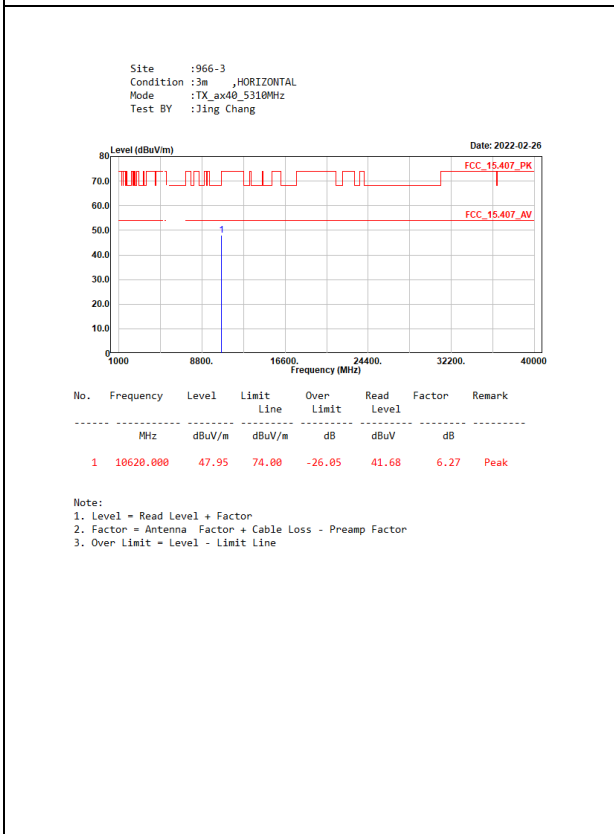
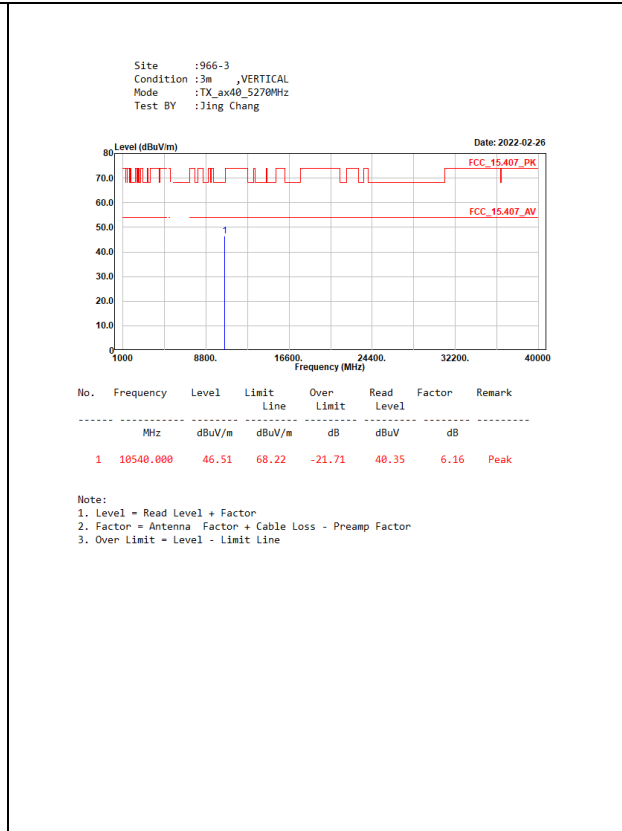
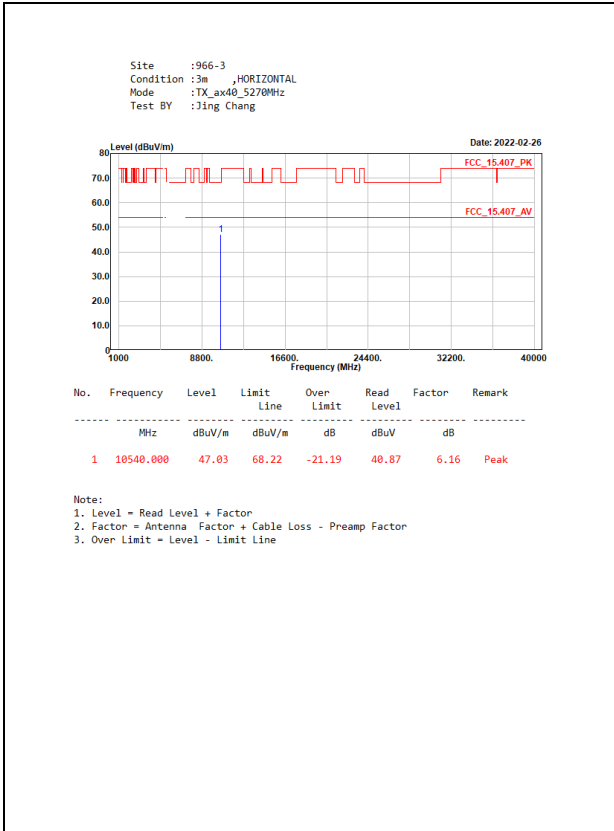


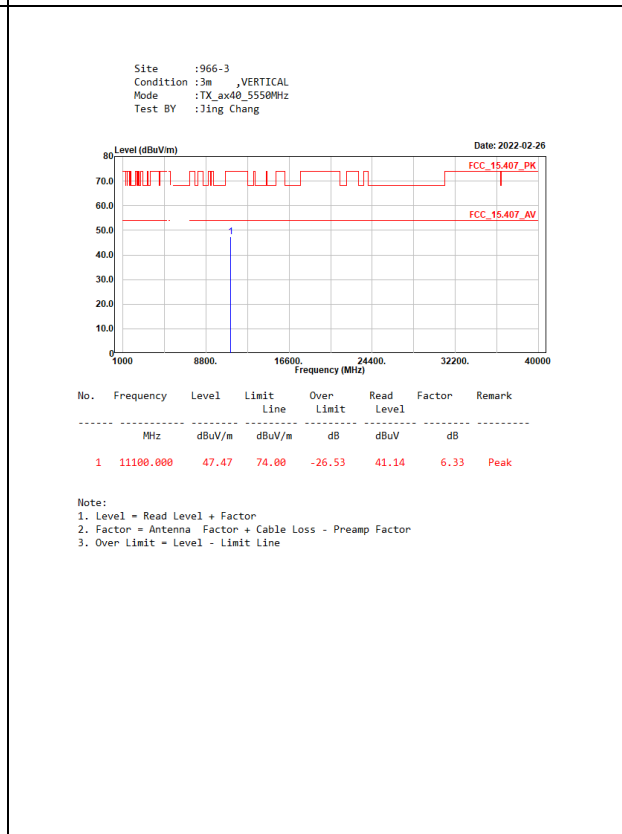
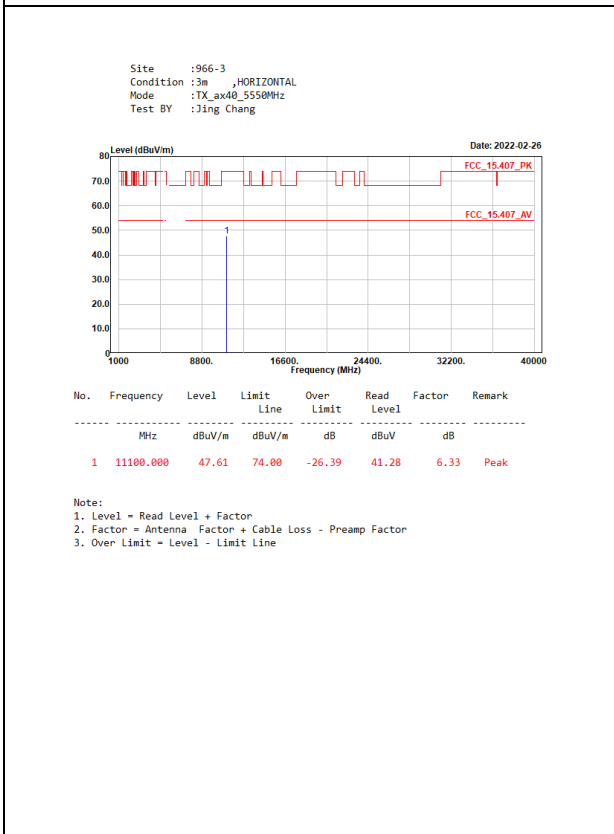
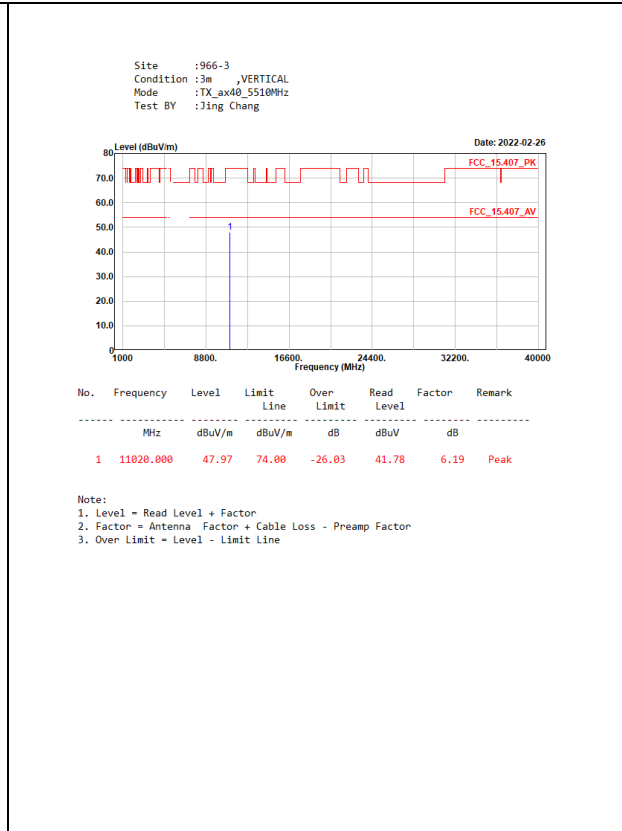
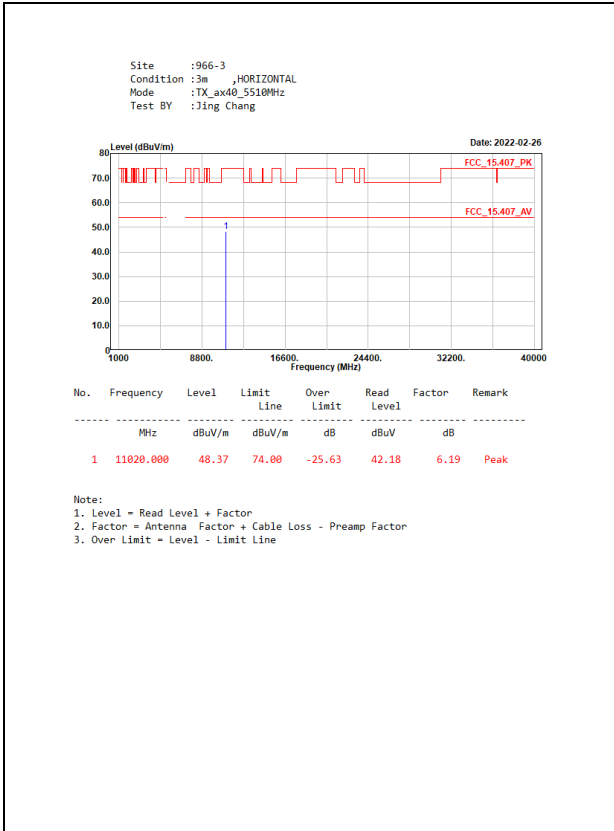


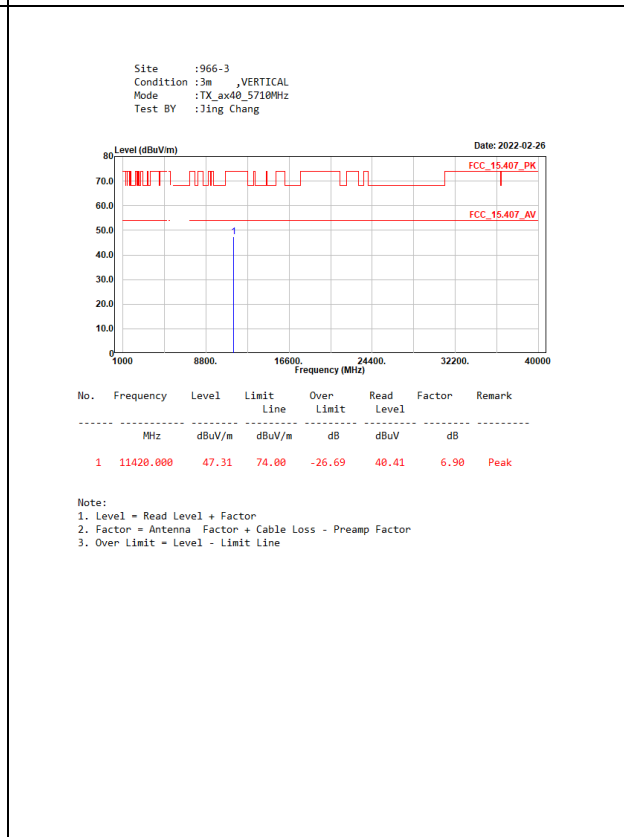
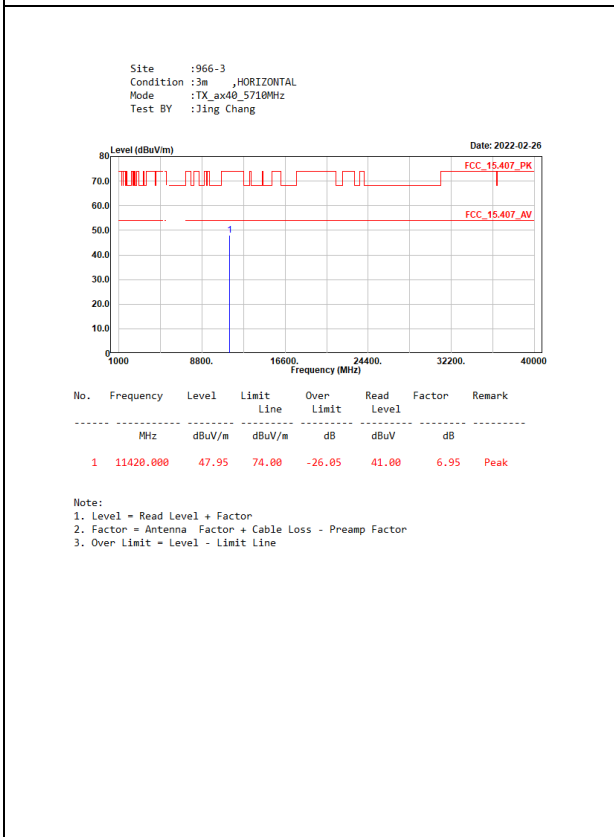
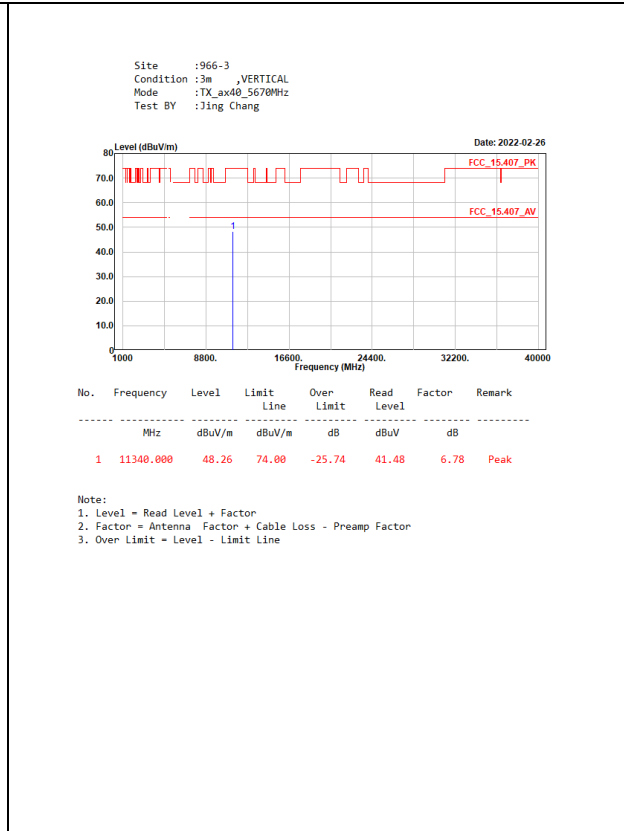
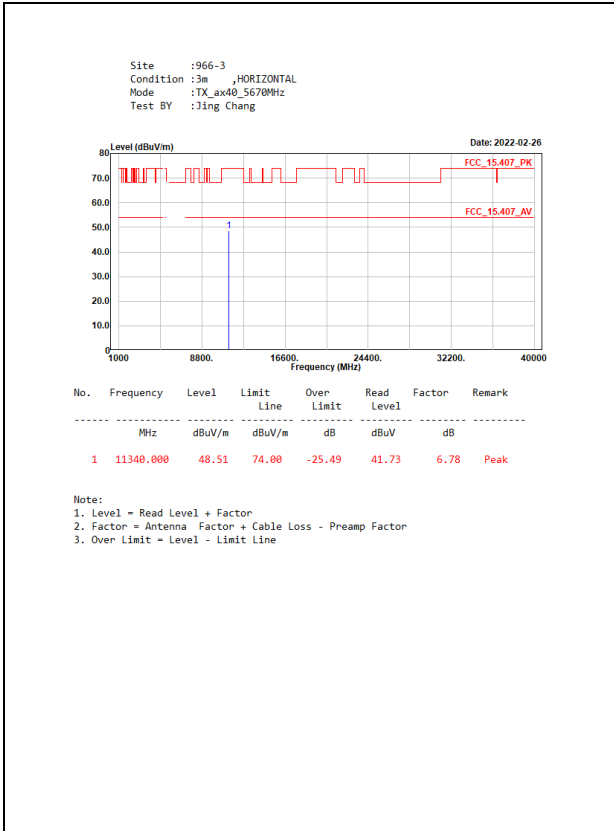


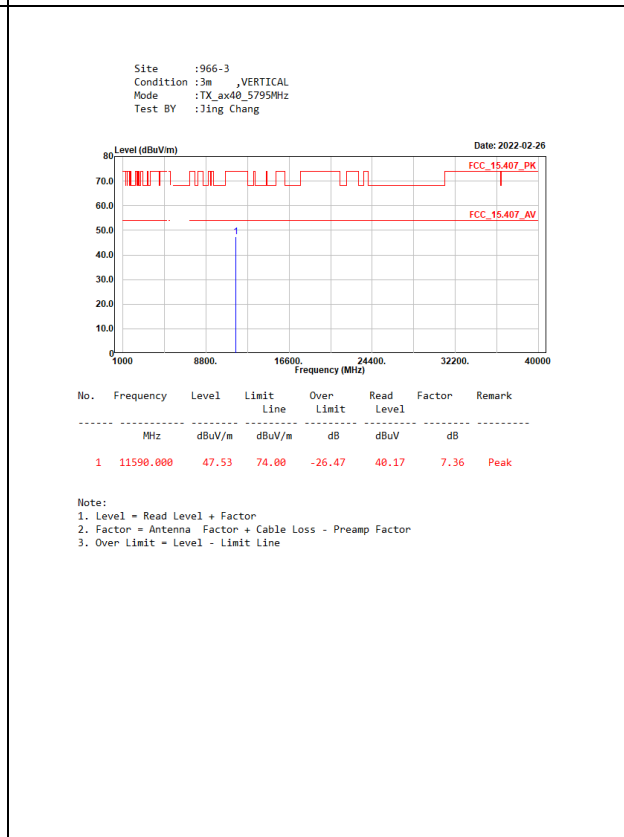
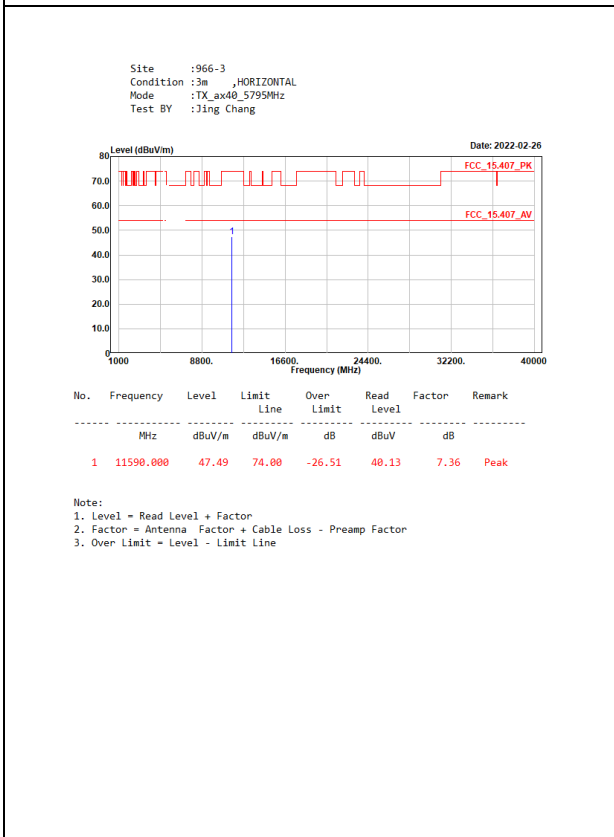
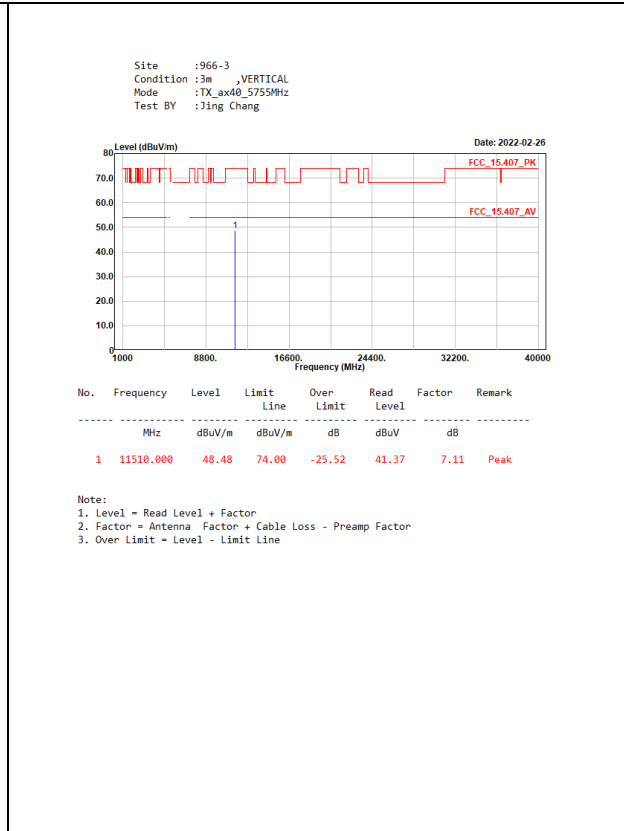
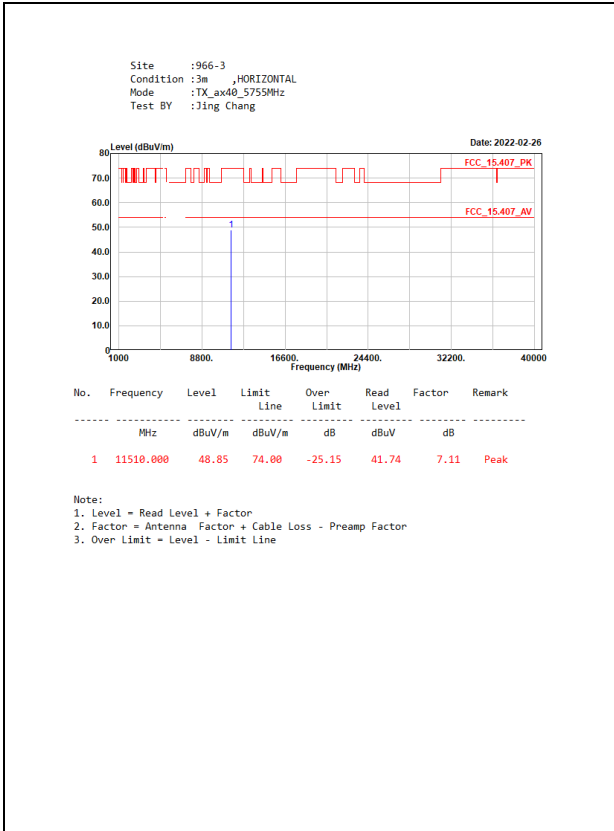


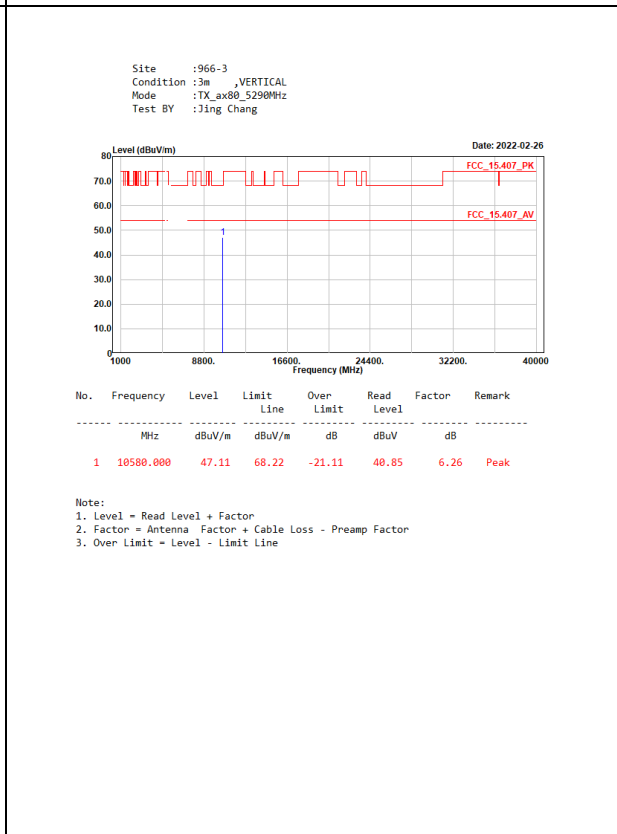
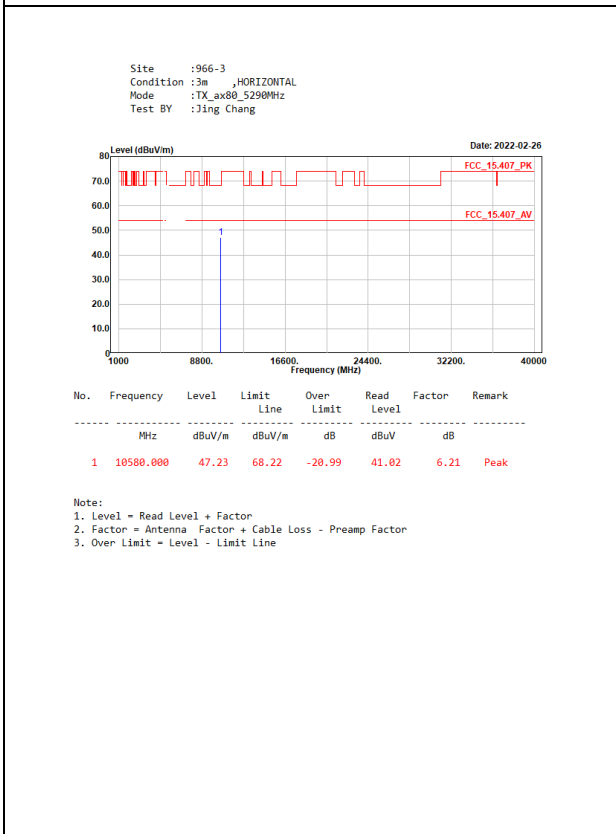
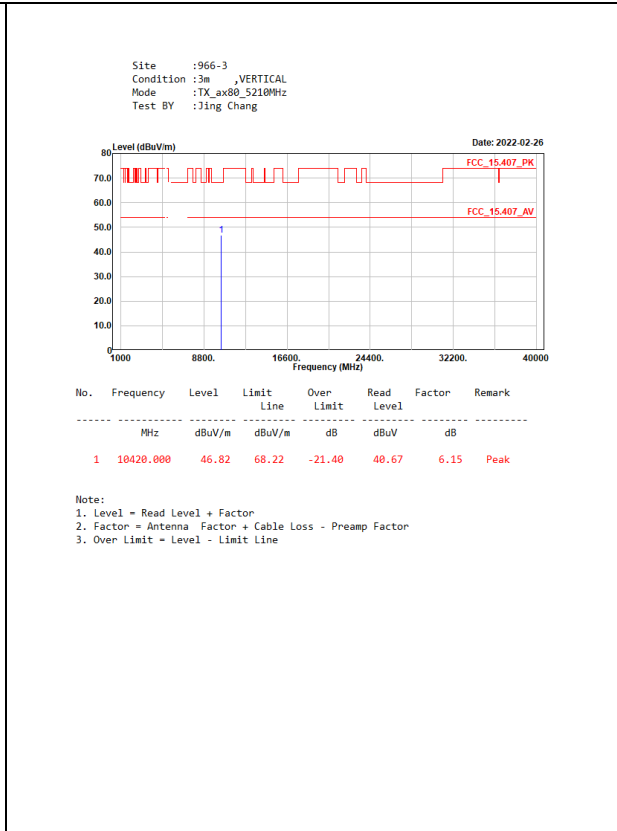
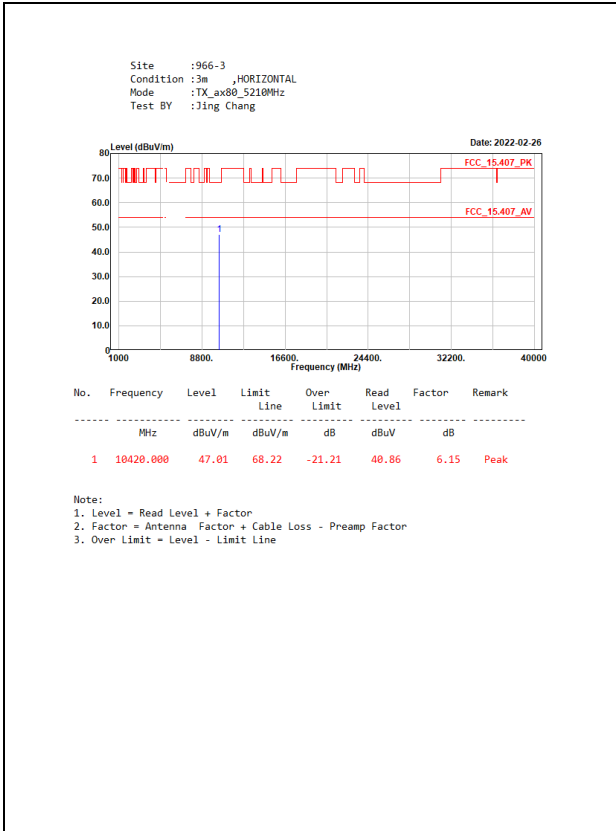


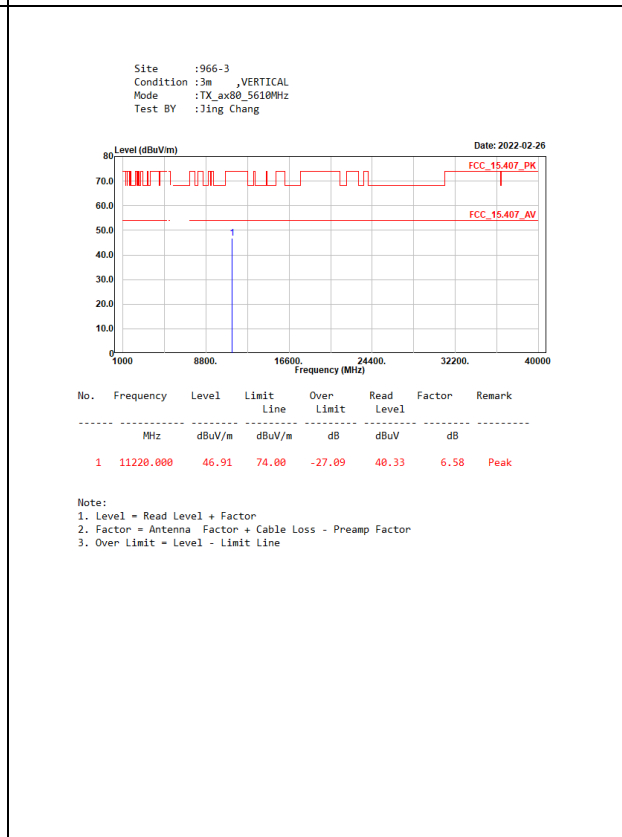
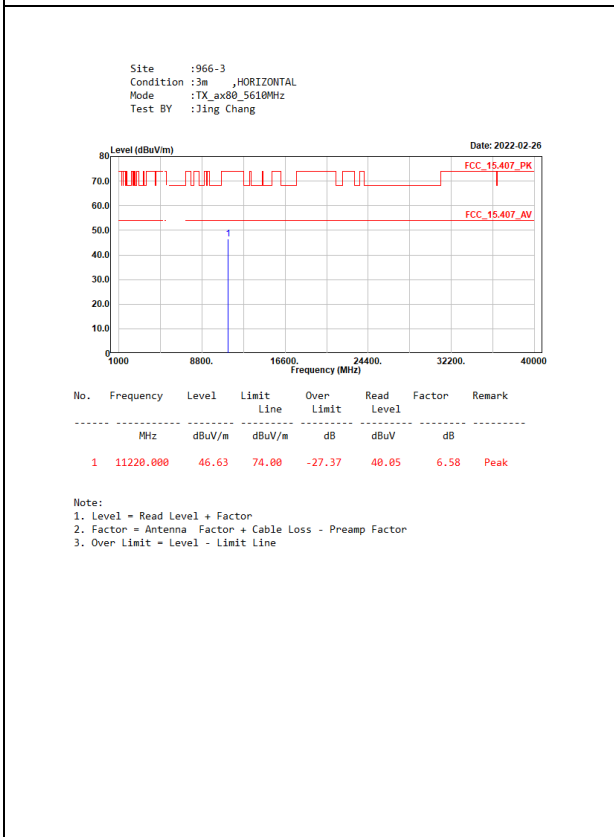
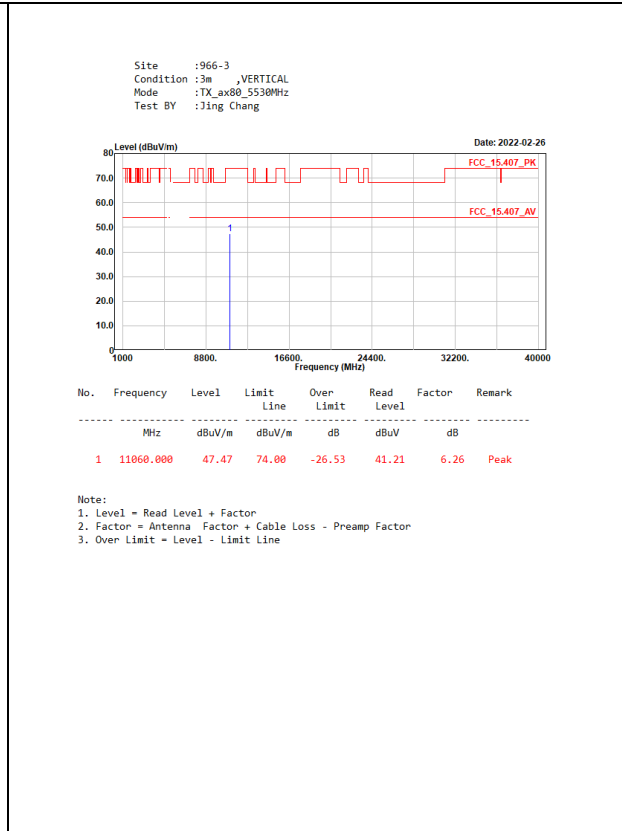
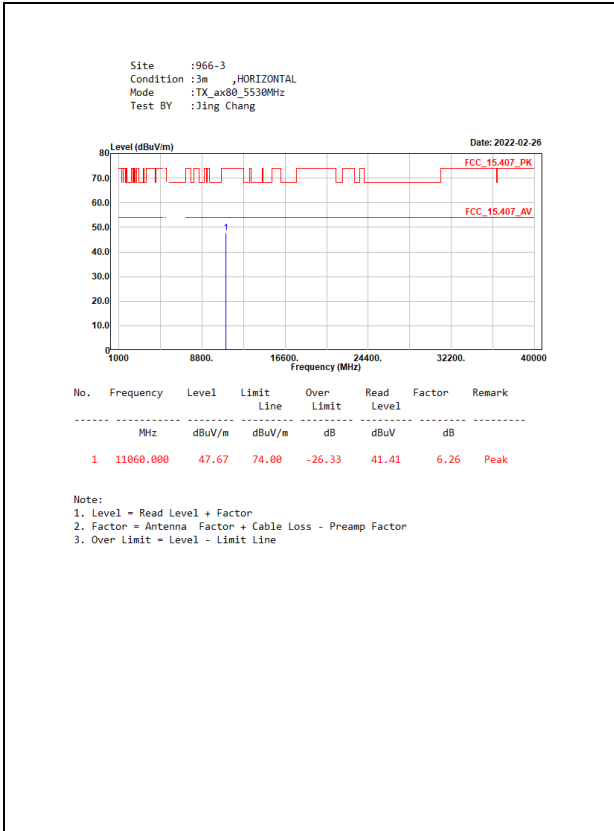


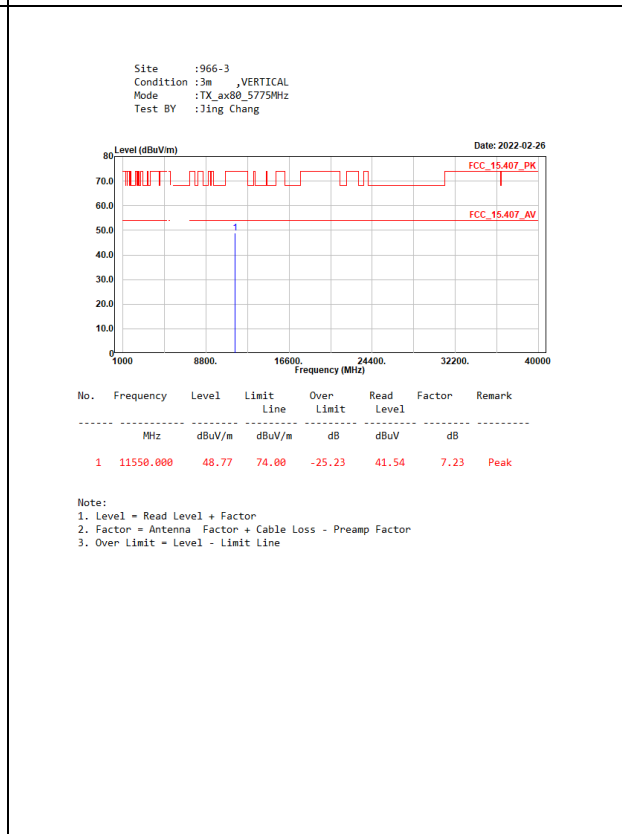
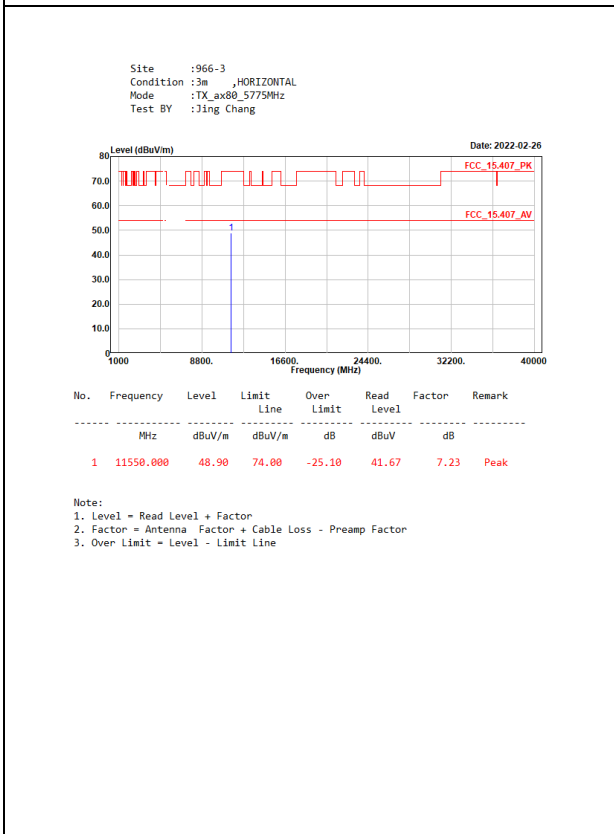
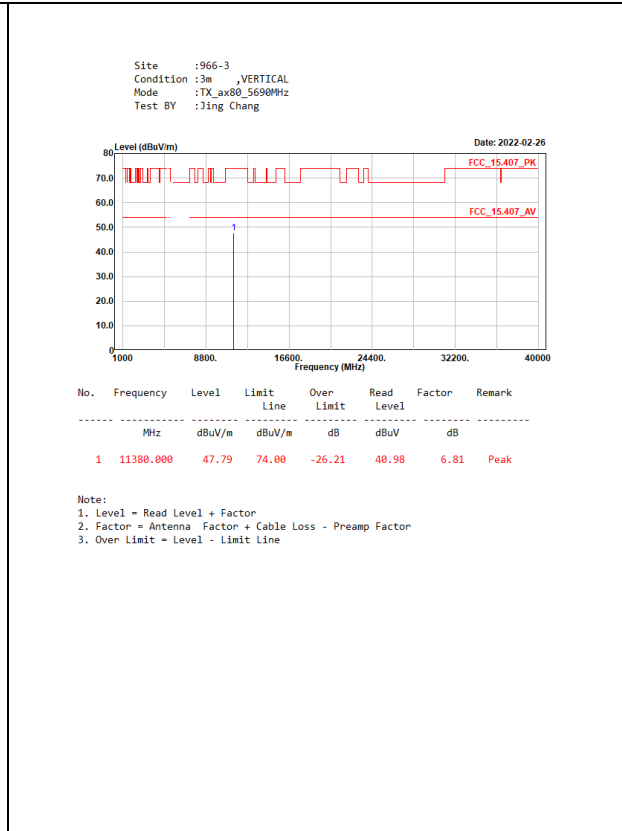
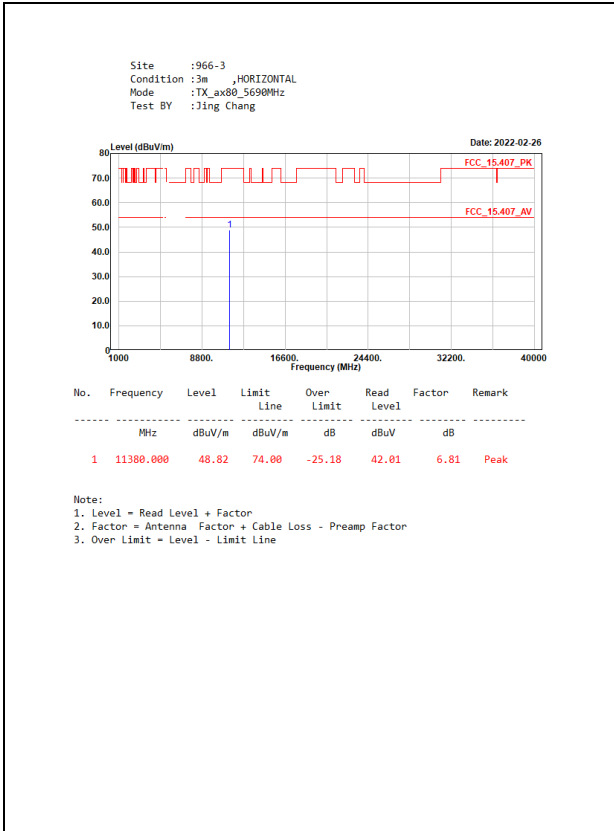


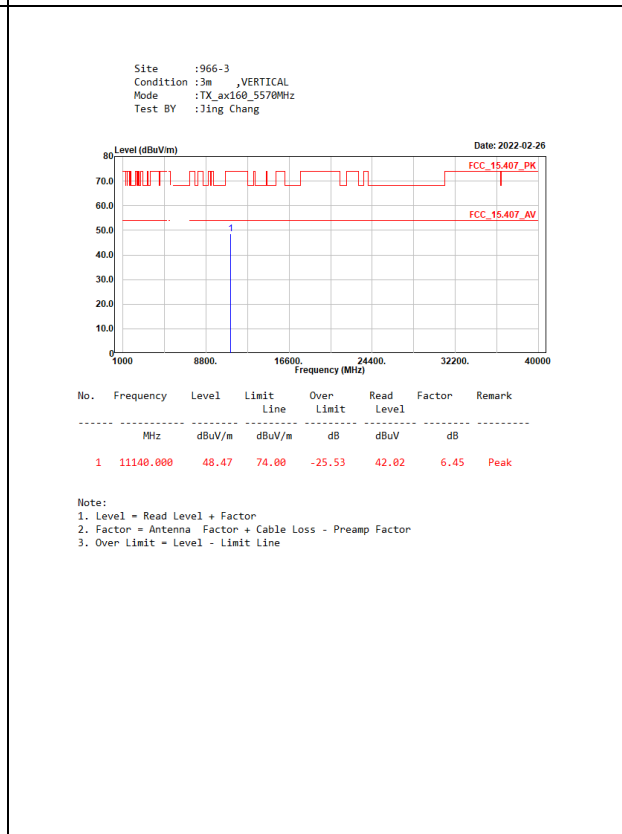
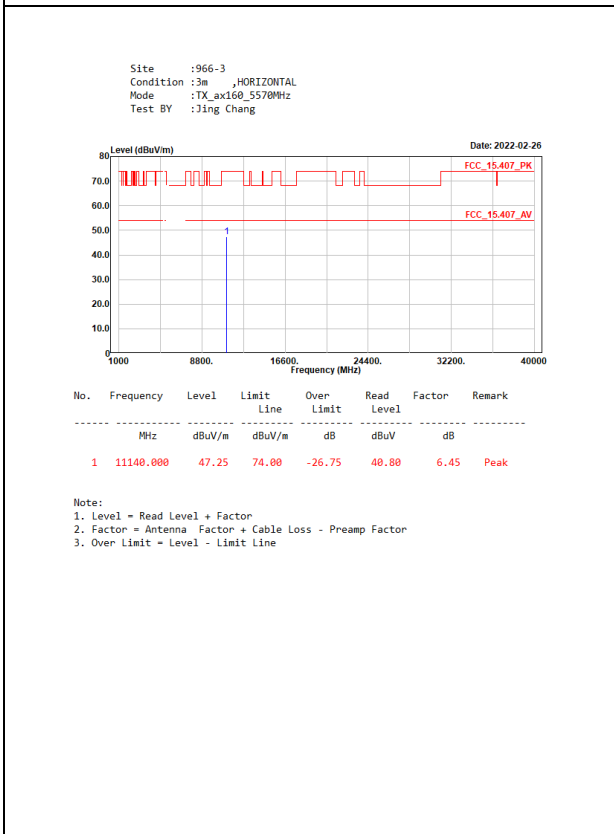
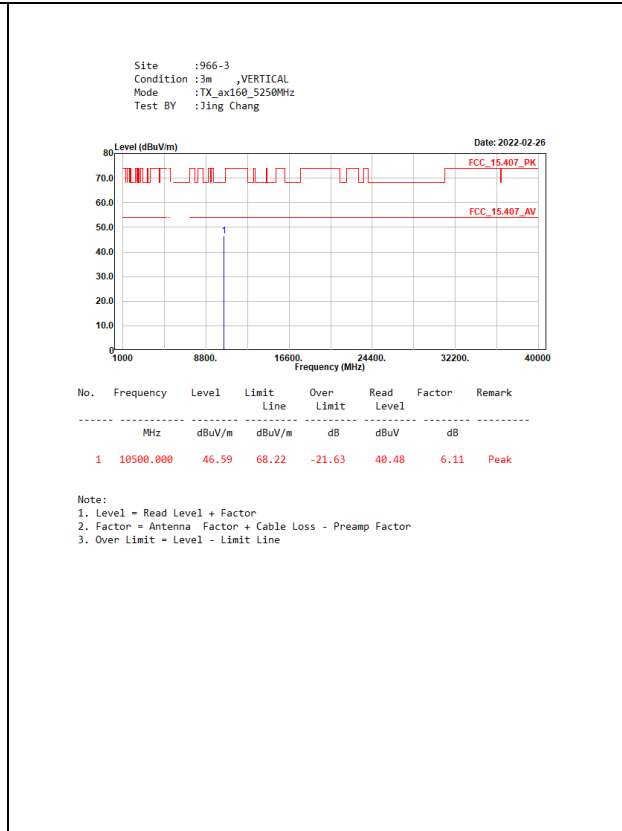
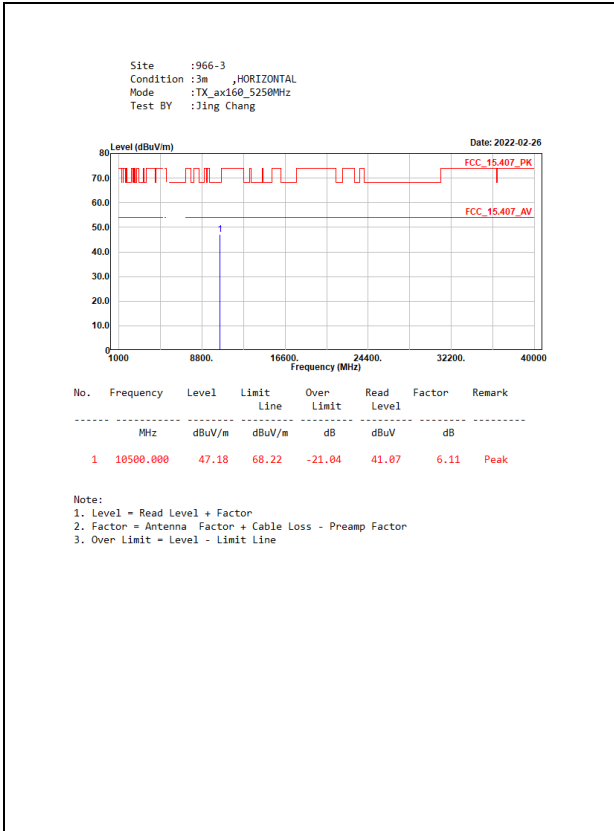


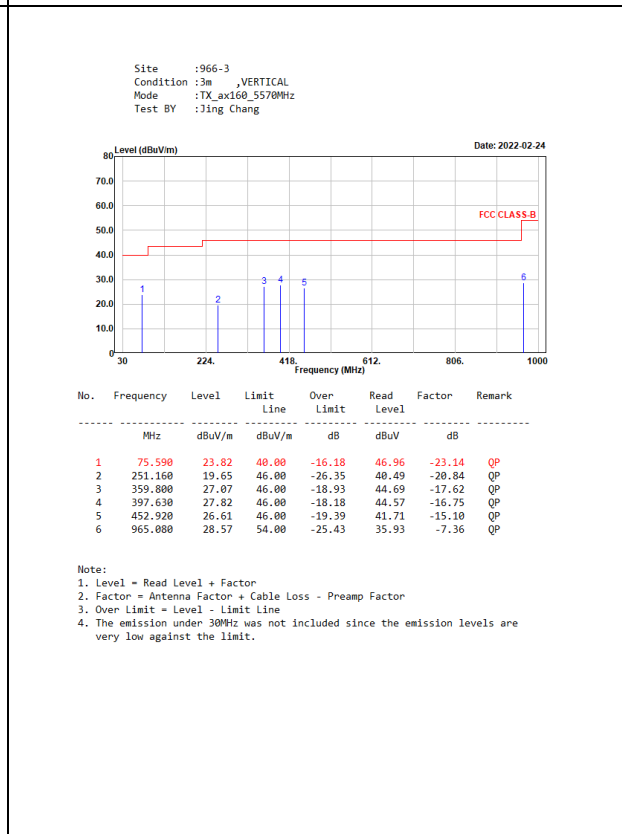
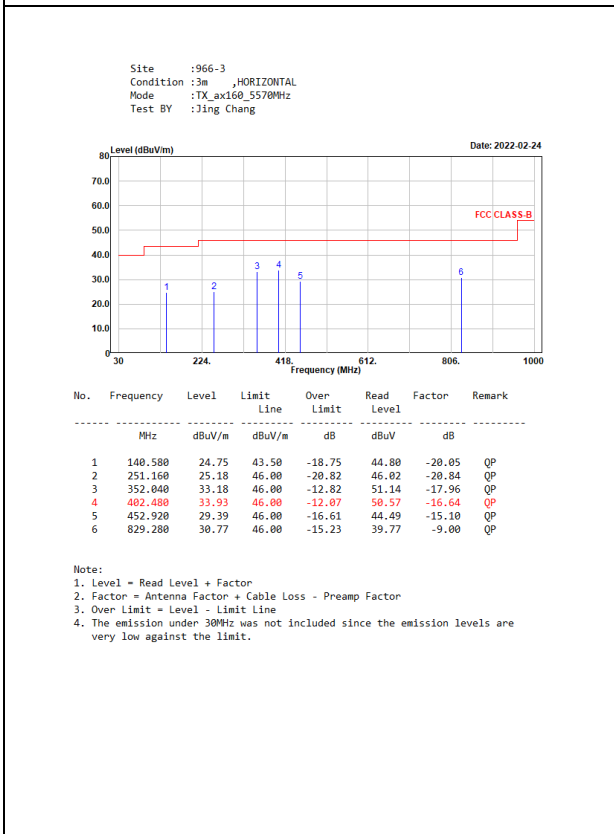
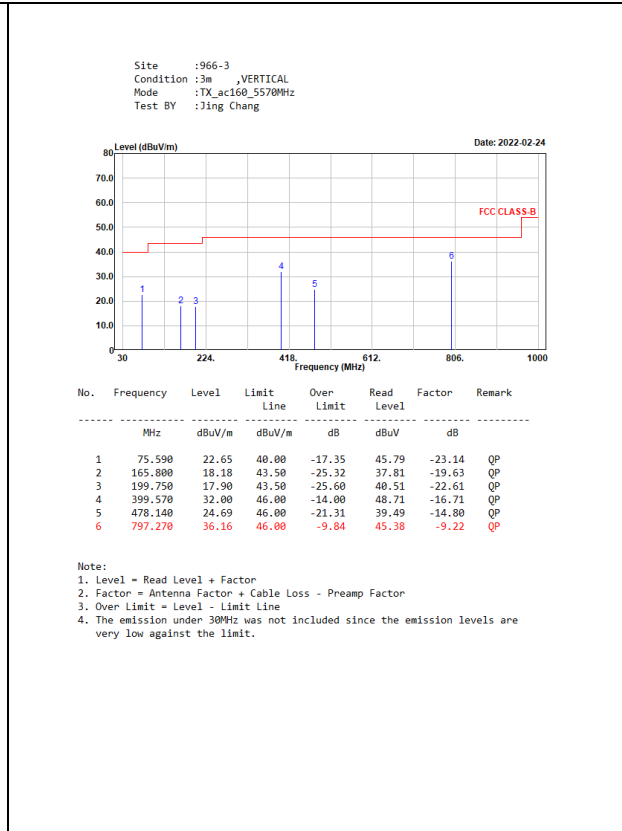
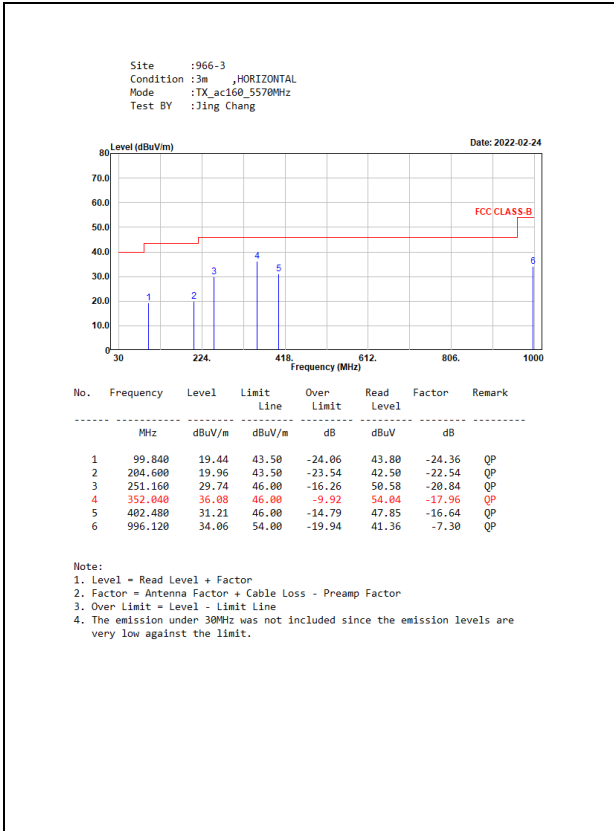








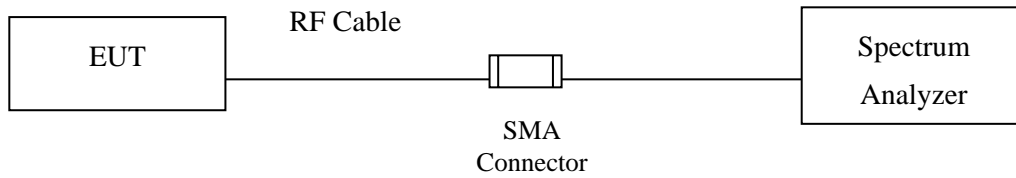




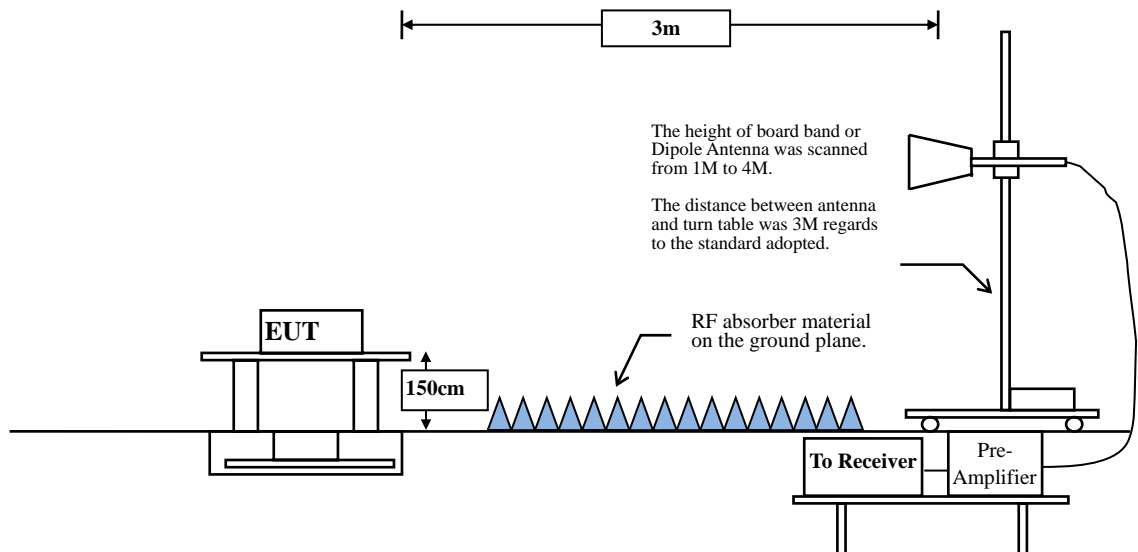
4. Band Edge

4.1. Test Setup

RF Conducted Measurement:



RF Radiated Measurement:



4.2. Limits

The provisions of Section 15.205 of this part apply to intentional radiators operating under this section.

Radiated emissions which fall in the restricted bands, as defined in Section 15.205, must also comply with the radiated emission limits specified in Section 15.209:

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	uV/m @3m	dB μ V/m@3m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks :

1. RF Voltage (dB μ V) = 20 log RF Voltage (uV)
2. In the Above Table, the tighter limit applies at the band edges.
3. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.

4.3. Test Procedure

The EUT is placed on a turn table which is 1.5 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move 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 measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10:2013 on radiated measurement.

The bandwidth below 1GHz setting on the field strength meter is 120 kHz, above 1GHz are 1 MHz. The EUT was setup to ANSI C63.10, 2013; tested to UNII test procedure of FCC KDB-789033 for compliance to FCC 47CFR Subpart E requirements.

RBW and VBW Parameter setting:

According to KDB 789033 section II.G.5 Procedure for Unwanted Maximum Emissions Measurements above 1000 MHz.

RBW = 1MHz.

VBW \geq 3MHz.

According to KDB 789033 section II.G.6 Procedures for Average Unwanted Emissions Measurements above 1000 MHz.

RBW = 1MHz.

VBW = 10Hz, when duty cycle \geq 98 %

VBW \geq 1/T, when duty cycle < 98 %

(T refers to the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.)

SISO A

5GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11 a	97.89	2.0900	478	500
802.11 n20	98.88	3.9800	251	10
802.11 n40	99.00	8.0480	124	10
802.11 ac80	98.88	3.9660	252	10
802.11 ac160	98.75	5.4540	183	10
802.11 ax20	98.40	2.5820	387	10
802.11 ax40	98.93	18.6620	54	10
802.11 ax80	98.86	8.8220	113	10
802.11 ax160	98.90	4.4760	223	10

Note: Duty Cycle Refer to Section 5.

SISO B

5GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11 a	97.89	2.0860	479	500
802.11 n20	99.03	5.9470	168	10
802.11 n40	99.01	17.7870	56	10
802.11 ac80	99.06	10.9120	92	10
802.11 ac160	98.65	3.9600	253	10
802.11 ax20	98.39	2.5740	389	10
802.11 ax40	98.93	18.6540	54	10
802.11 ax80	98.89	8.9200	112	10
802.11 ax160	98.68	4.4700	224	10

Note: Duty Cycle Refer to Section 5.

MIMO

5GHz band	Duty Cycle (%)	T (ms)	1/T (Hz)	VBW (Hz)
802.11 n20	98.95	5.9580	168	10
802.11 n40	99.08	8.9380	112	10
802.11 ac80	98.93	5.4580	183	10
802.11 ac160	98.30	2.7790	360	10
802.11 ax20	98.90	18.6190	54	10
802.11 ax40	99.06	9.2990	108	10
802.11 ax80	98.90	4.4770	223	10
802.11 ax160	97.85	2.2770	439	500

Note: Duty Cycl Refer to Section 5.

4.4. Test Result of Band Edge

SISO A

