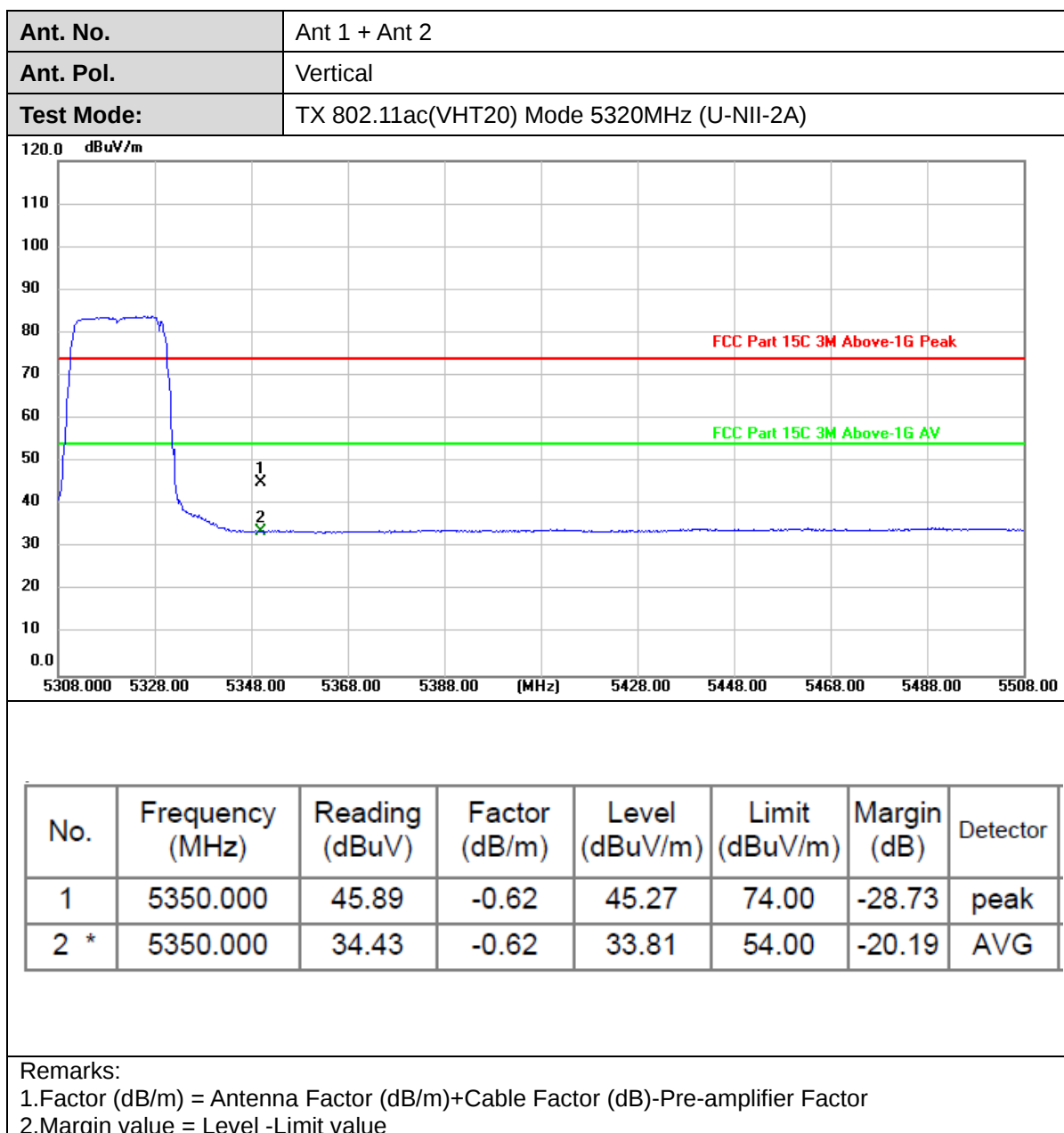
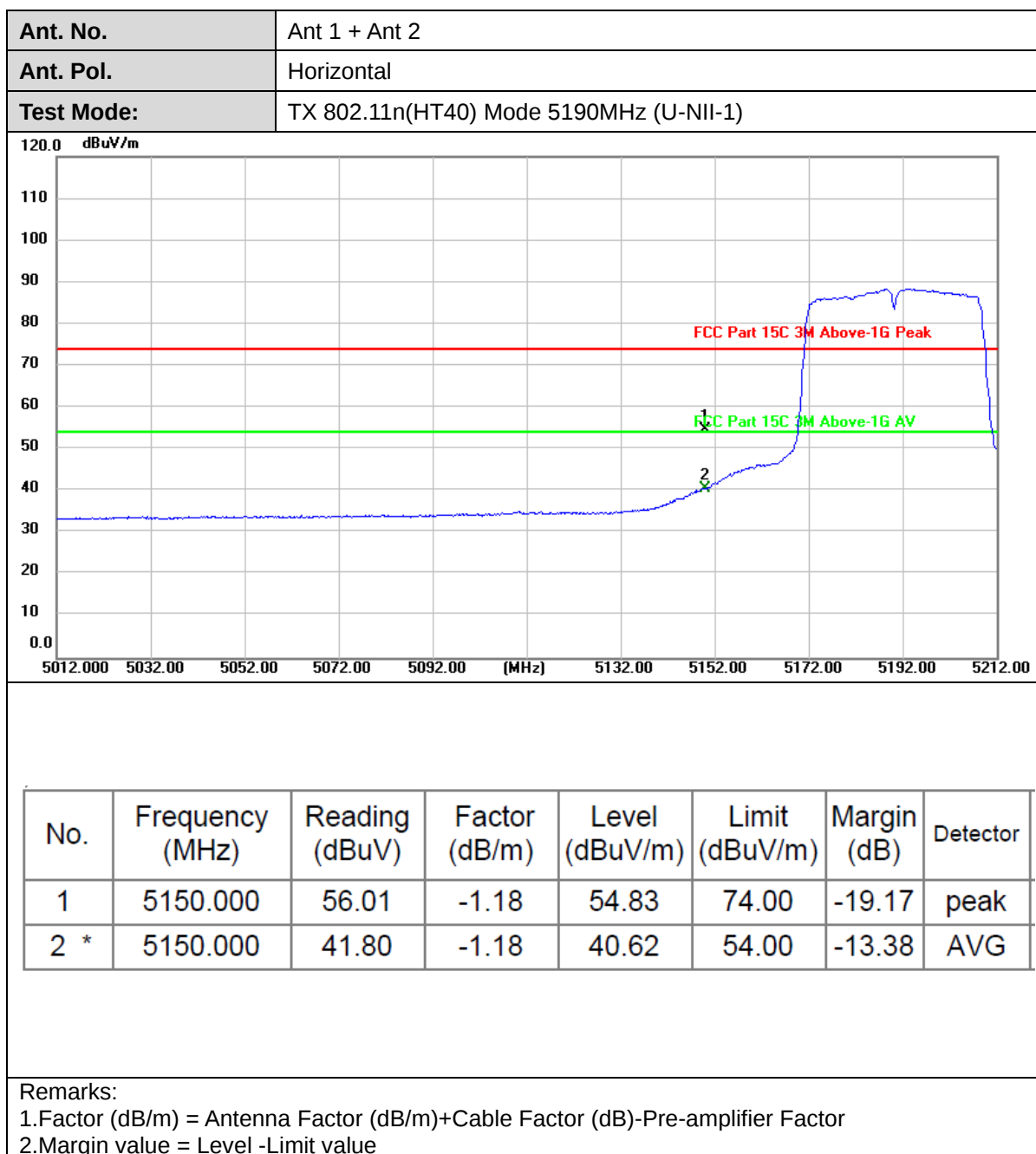
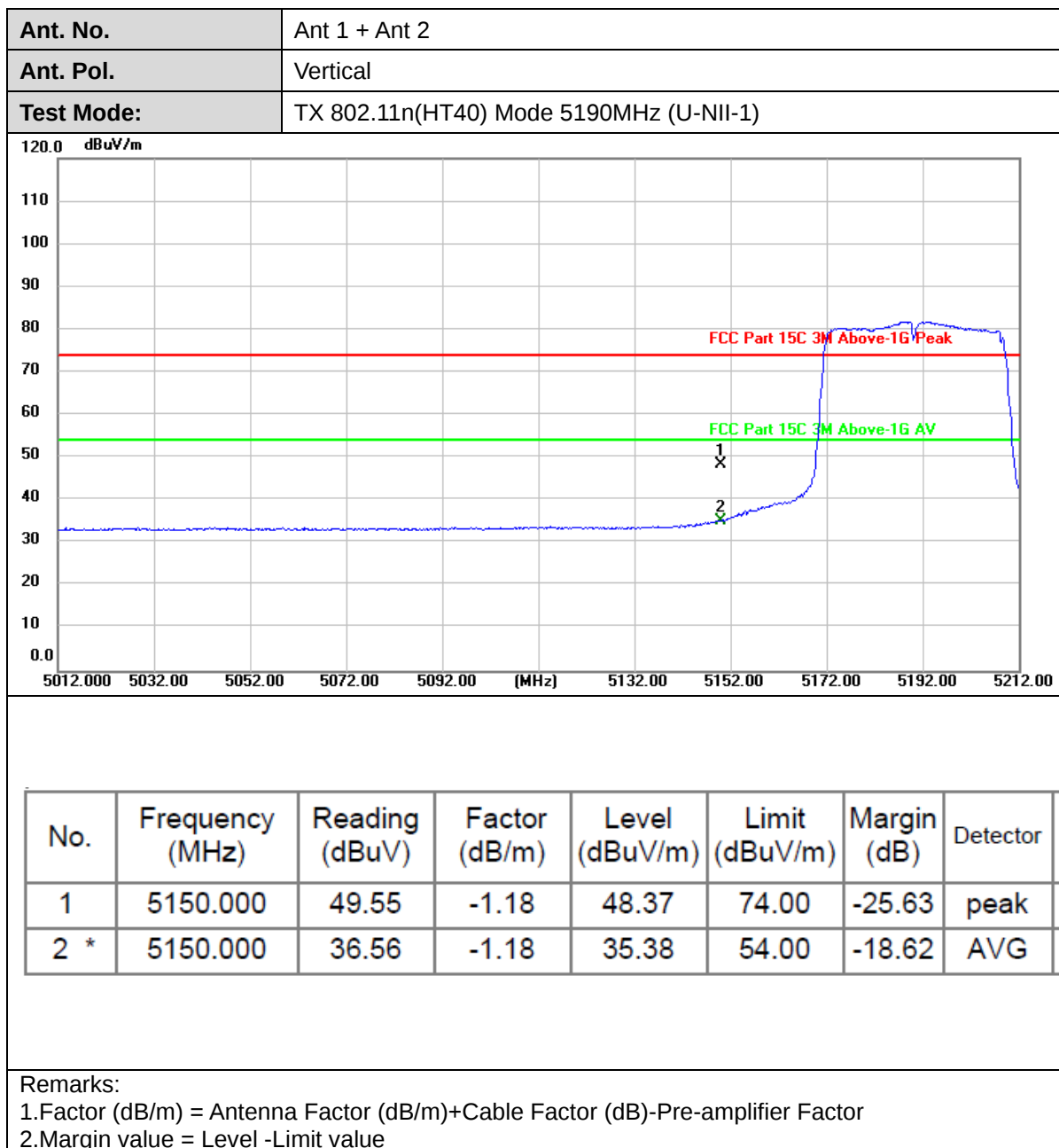
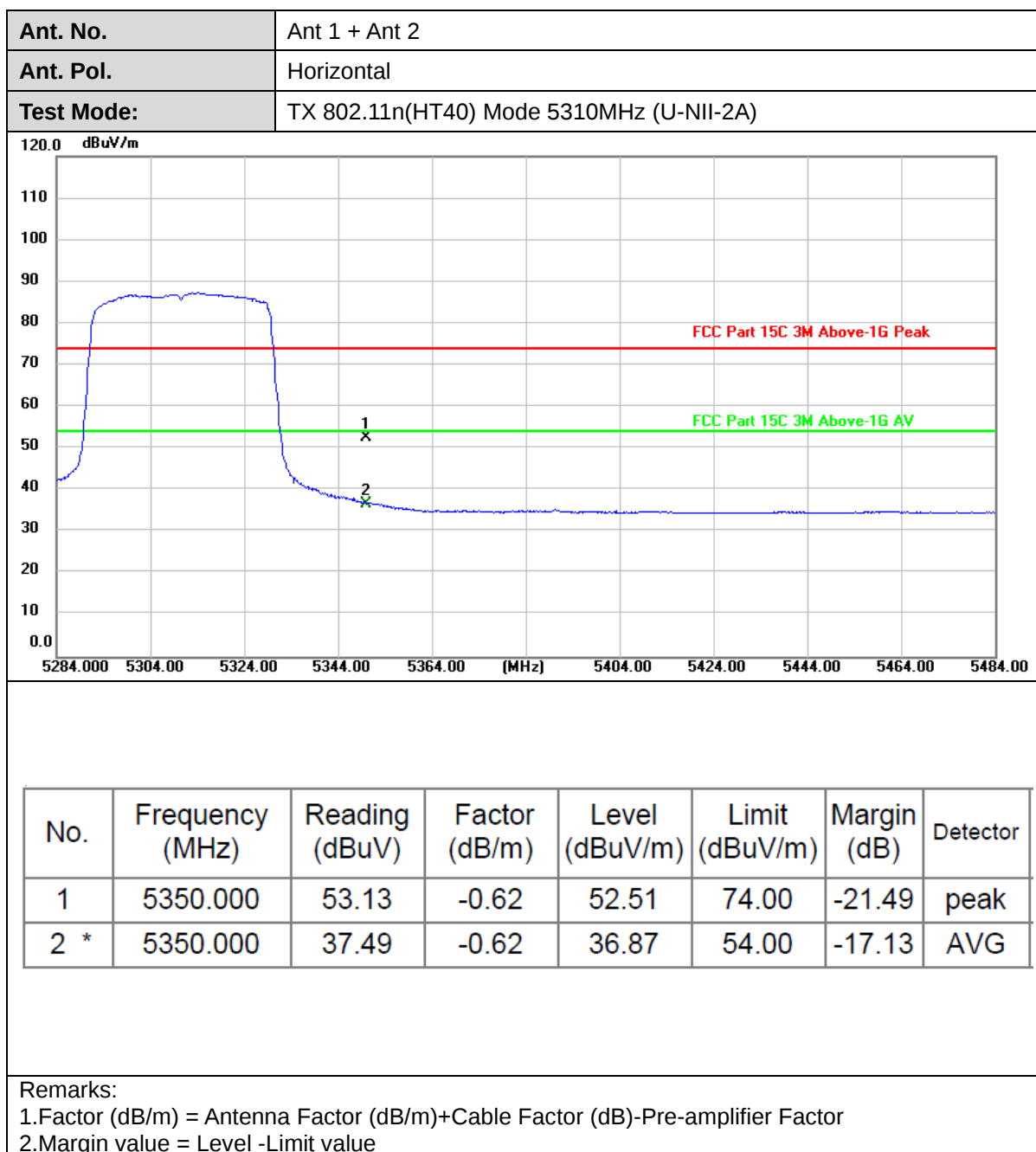
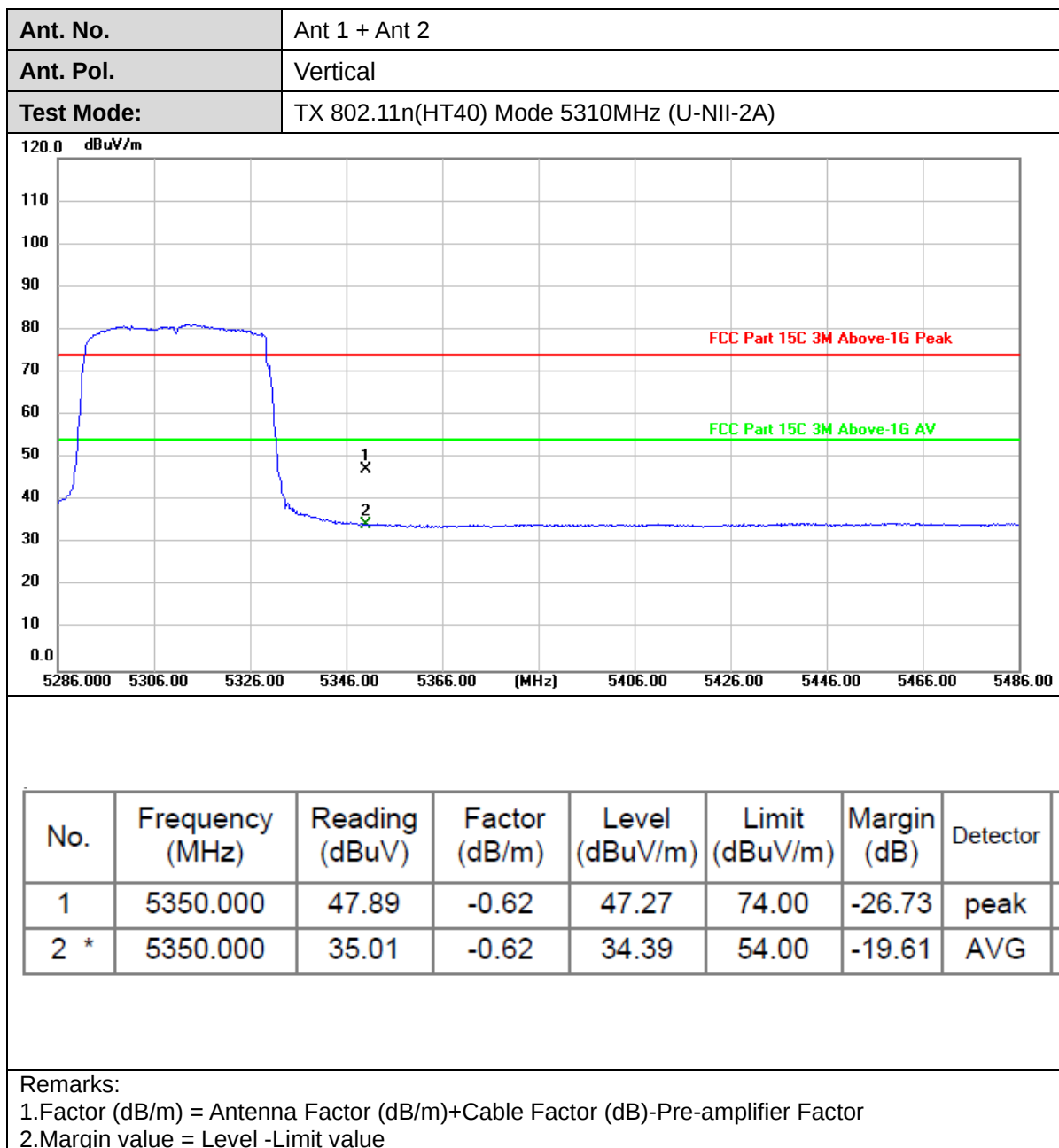


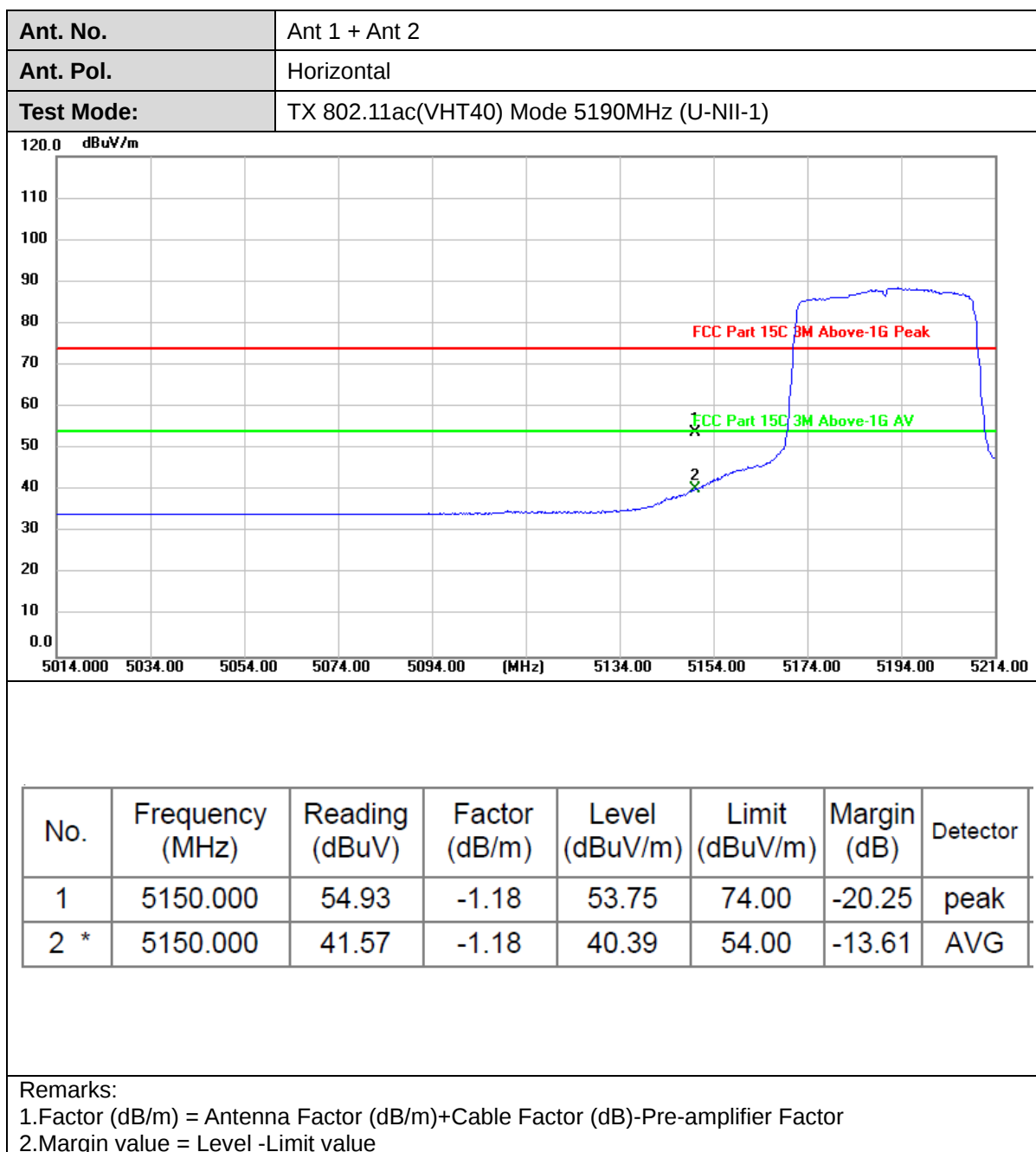


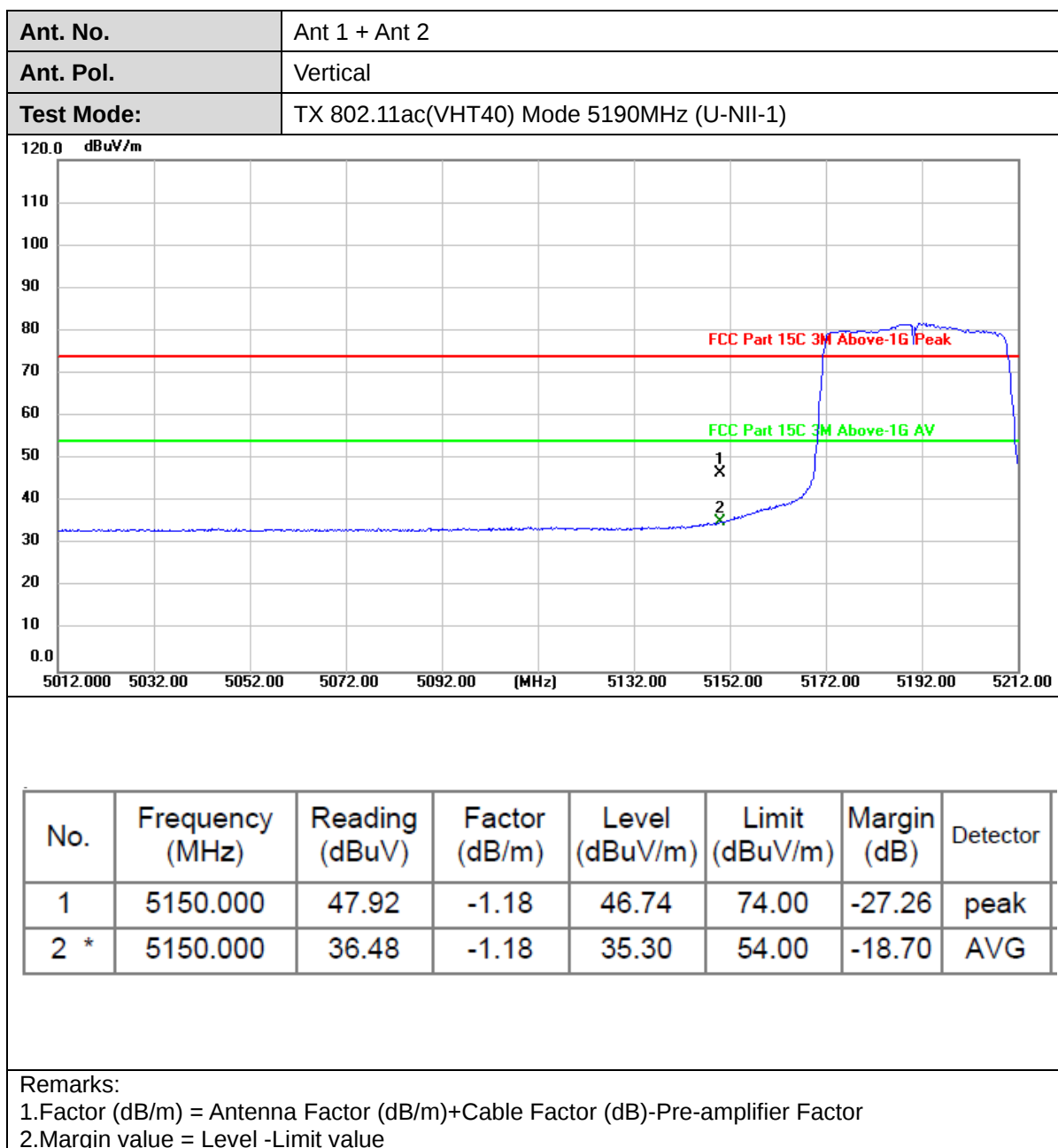


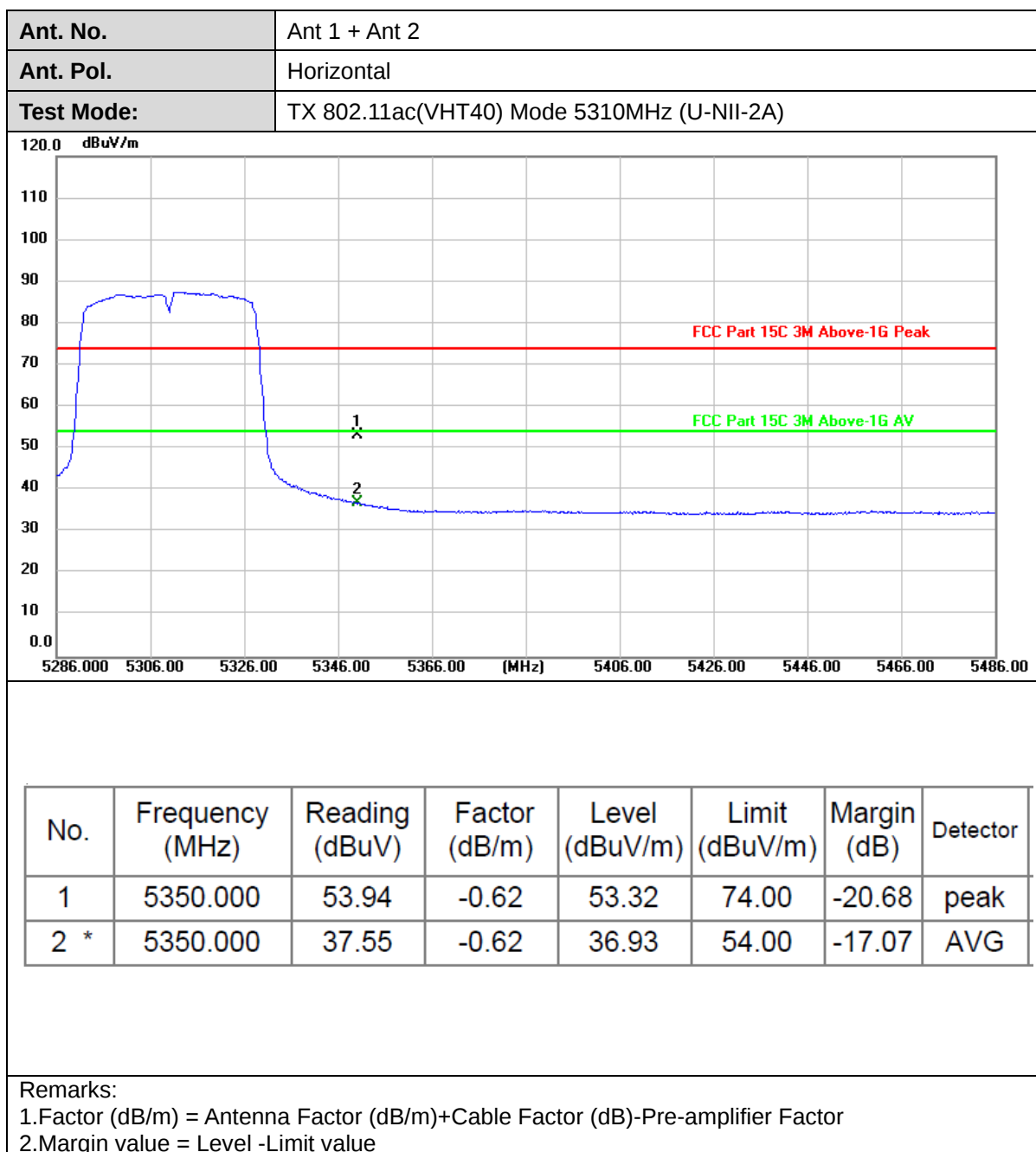


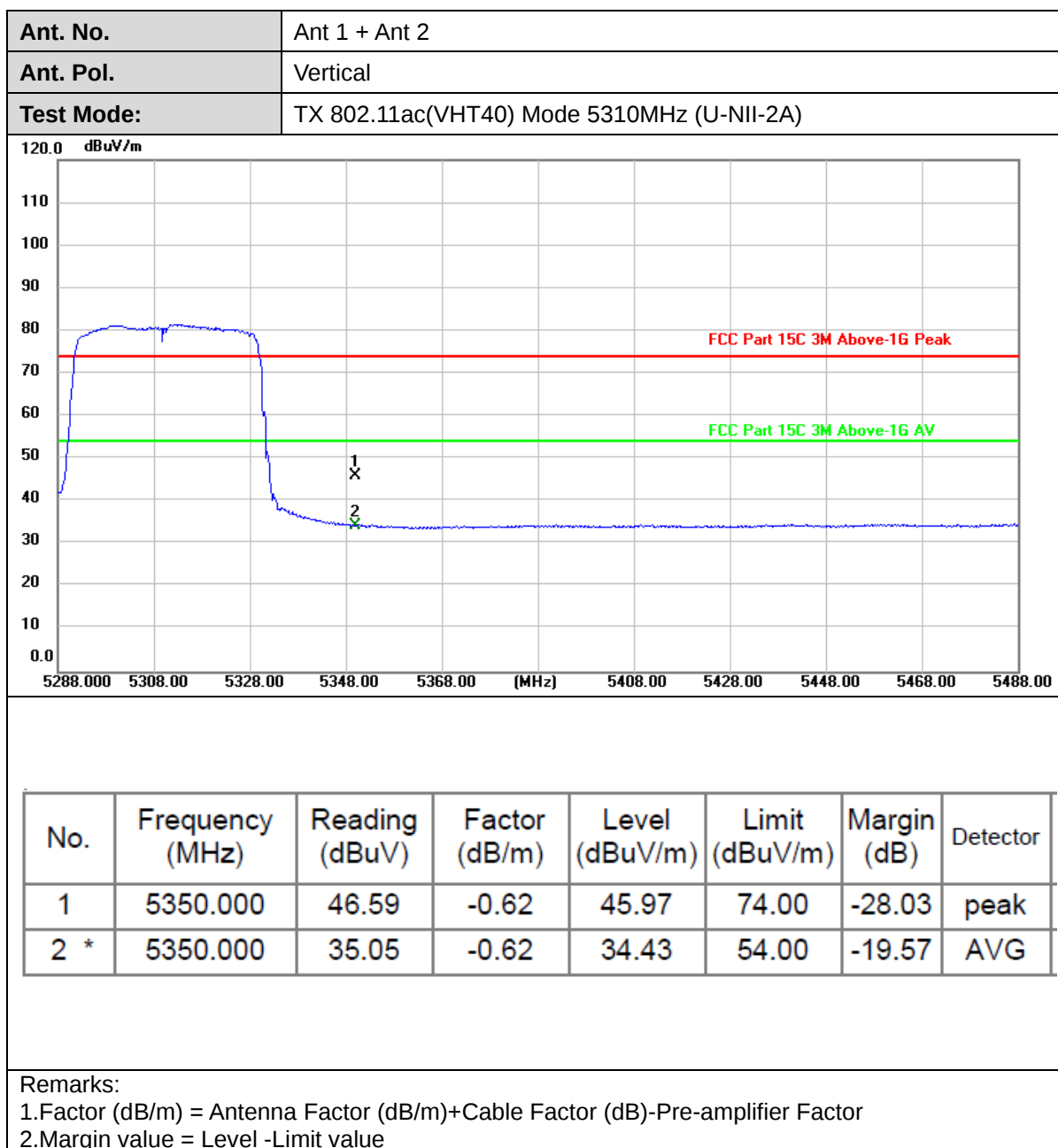


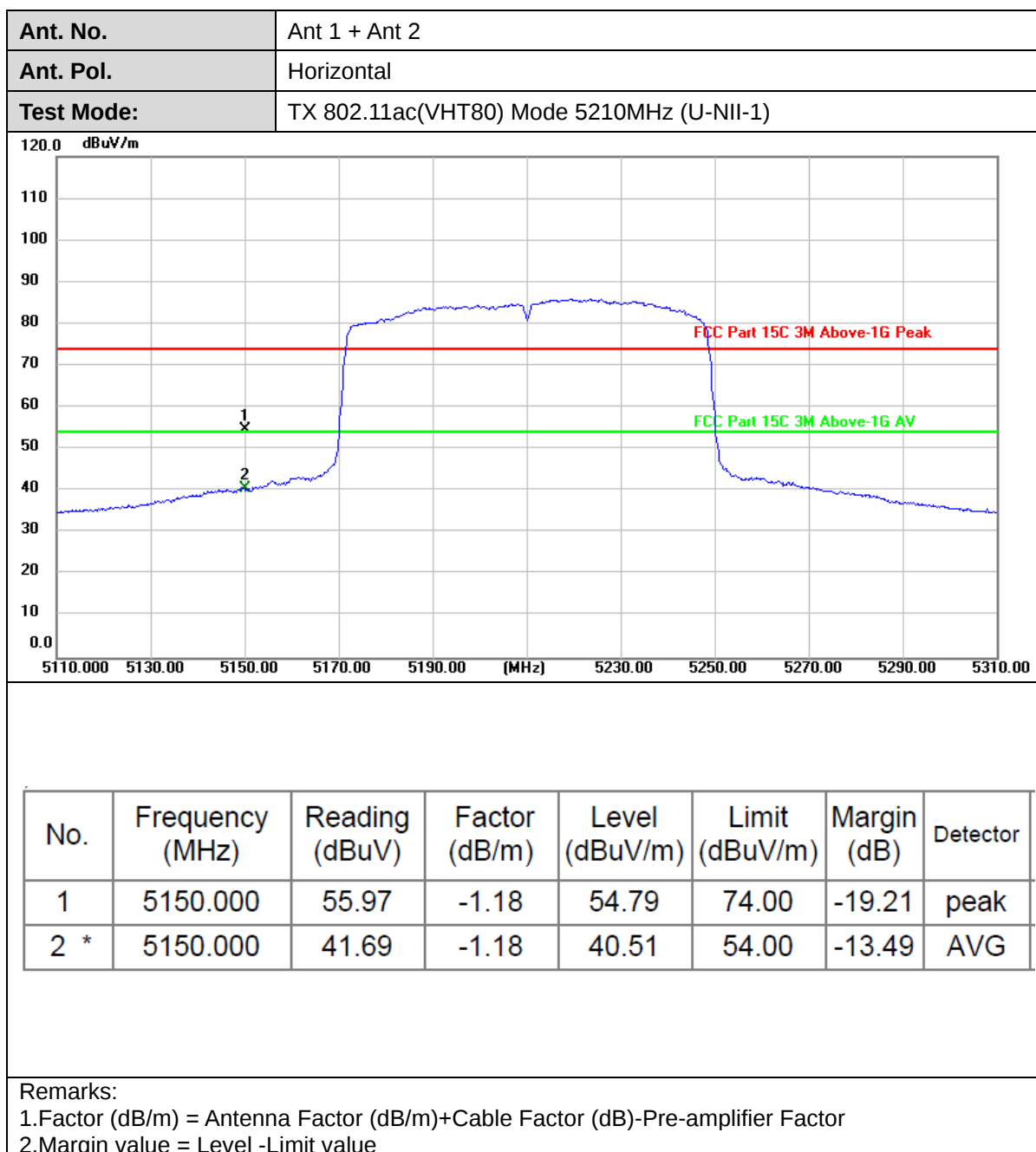


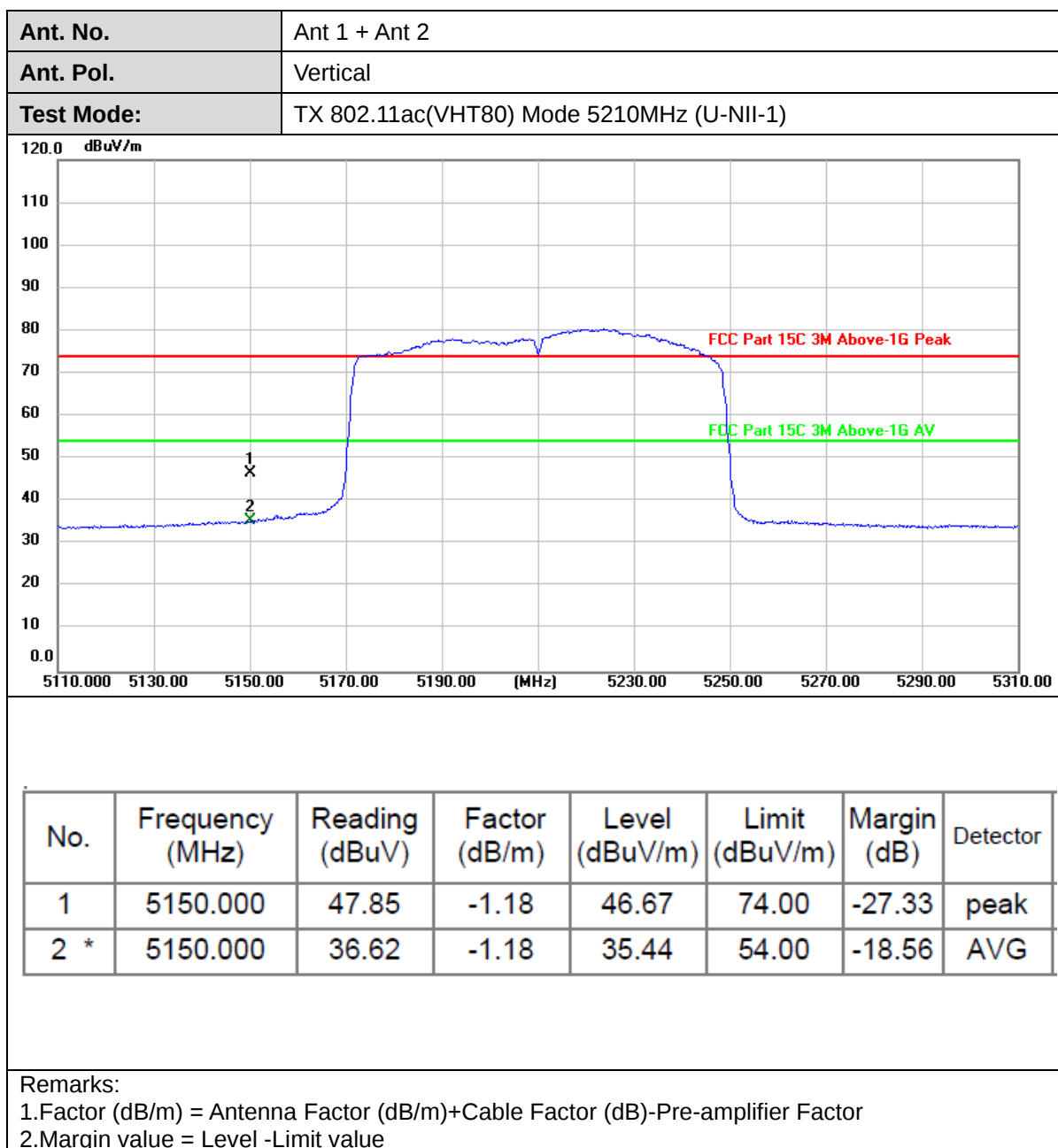


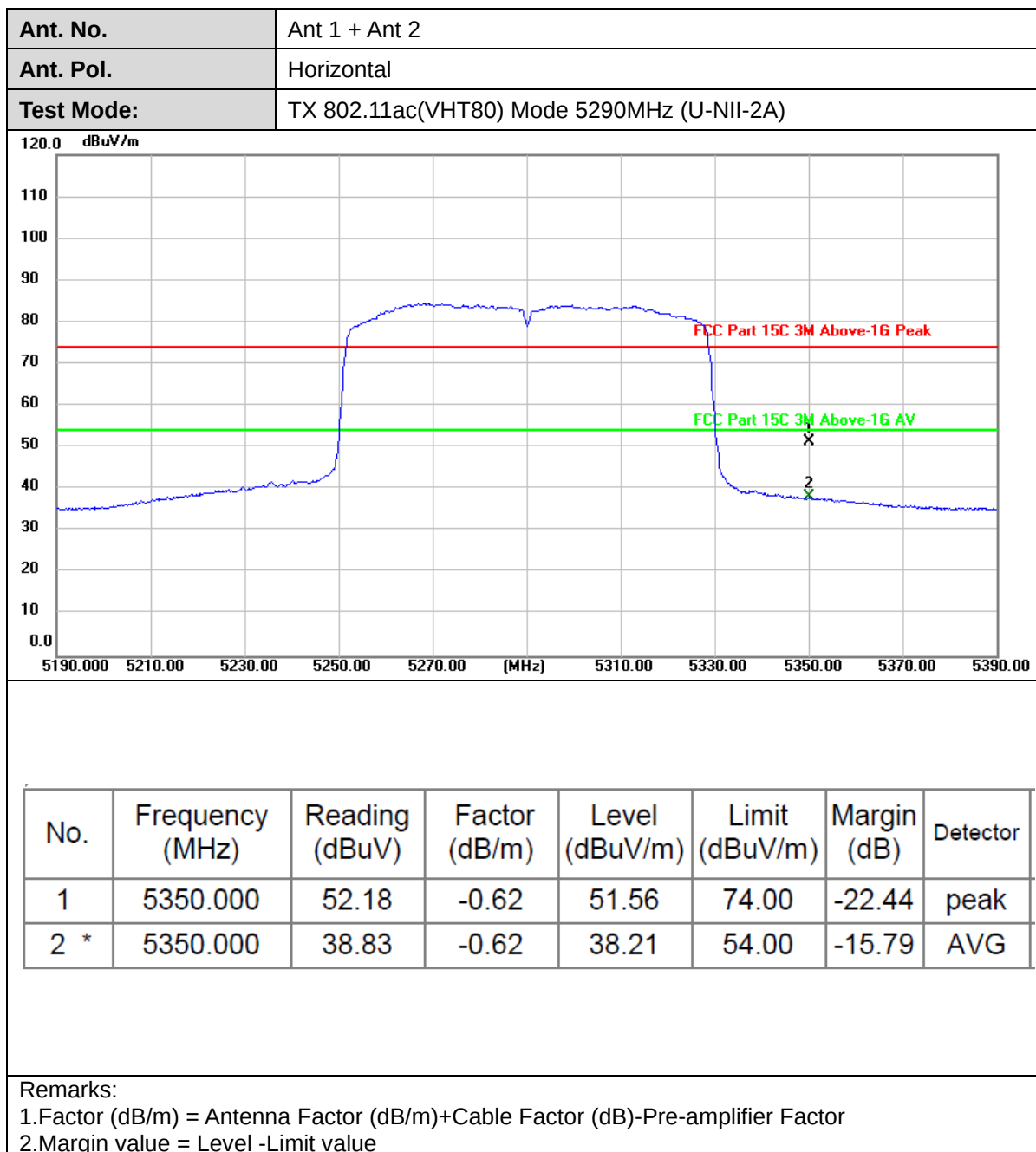


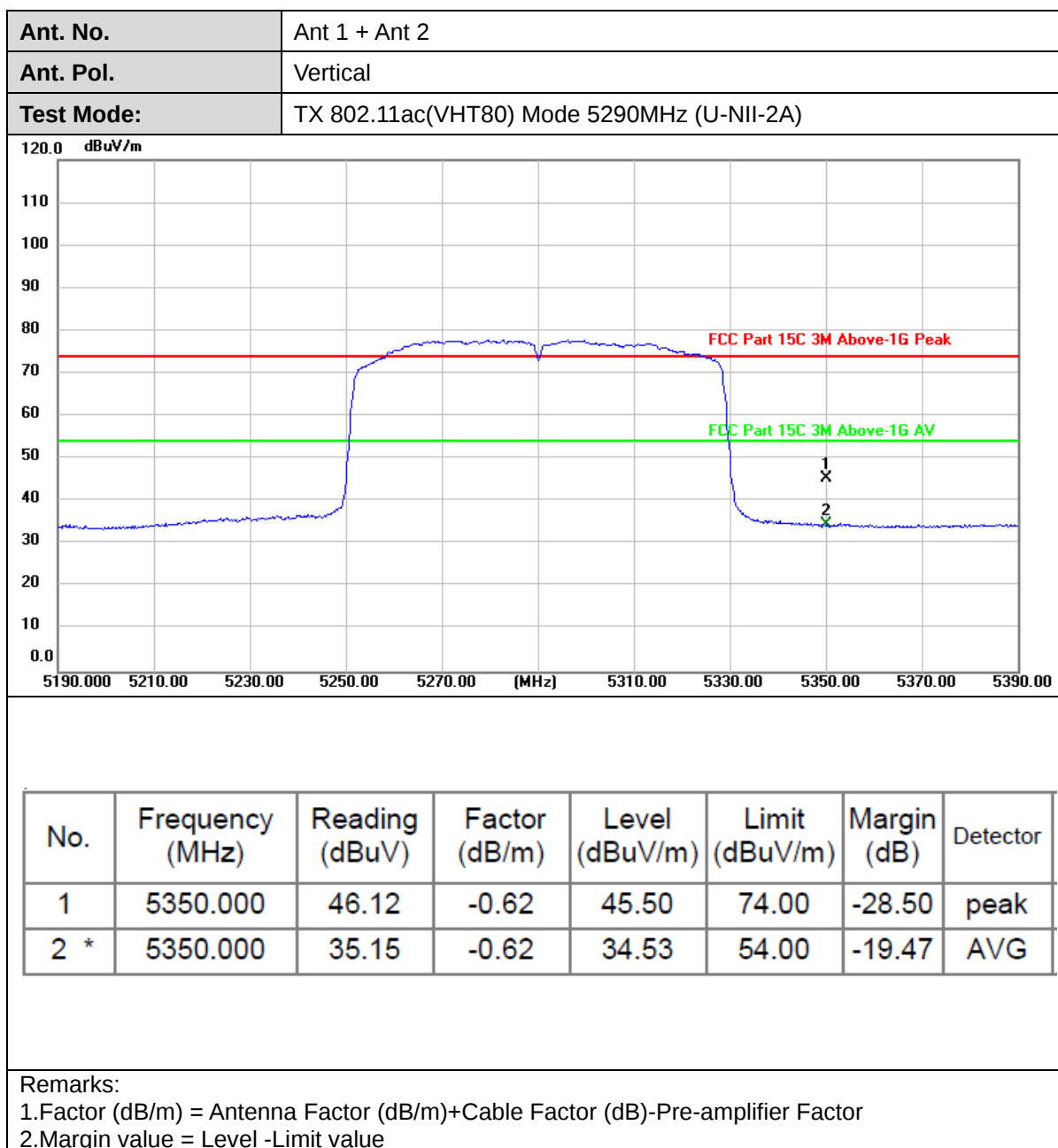


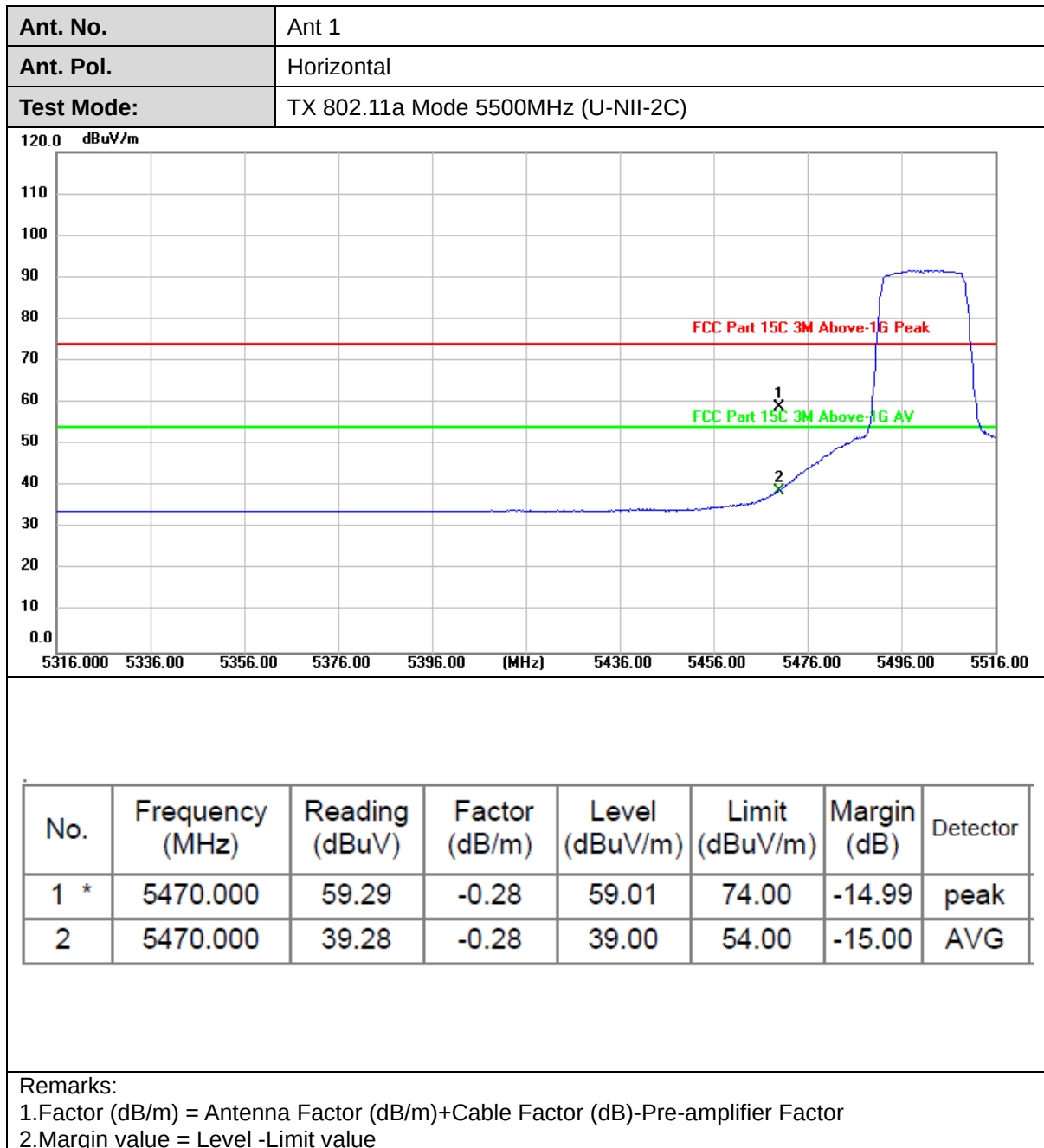


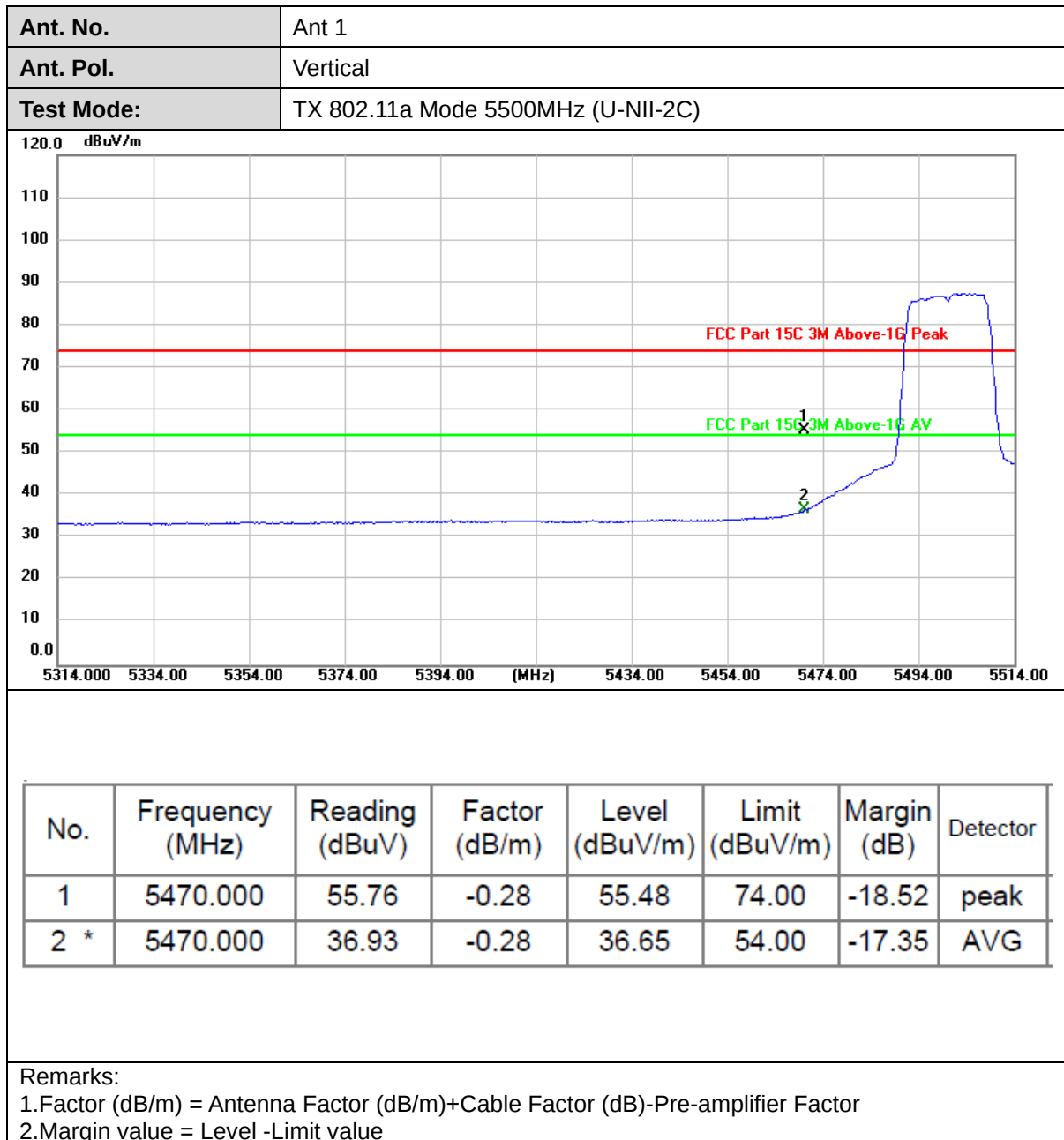


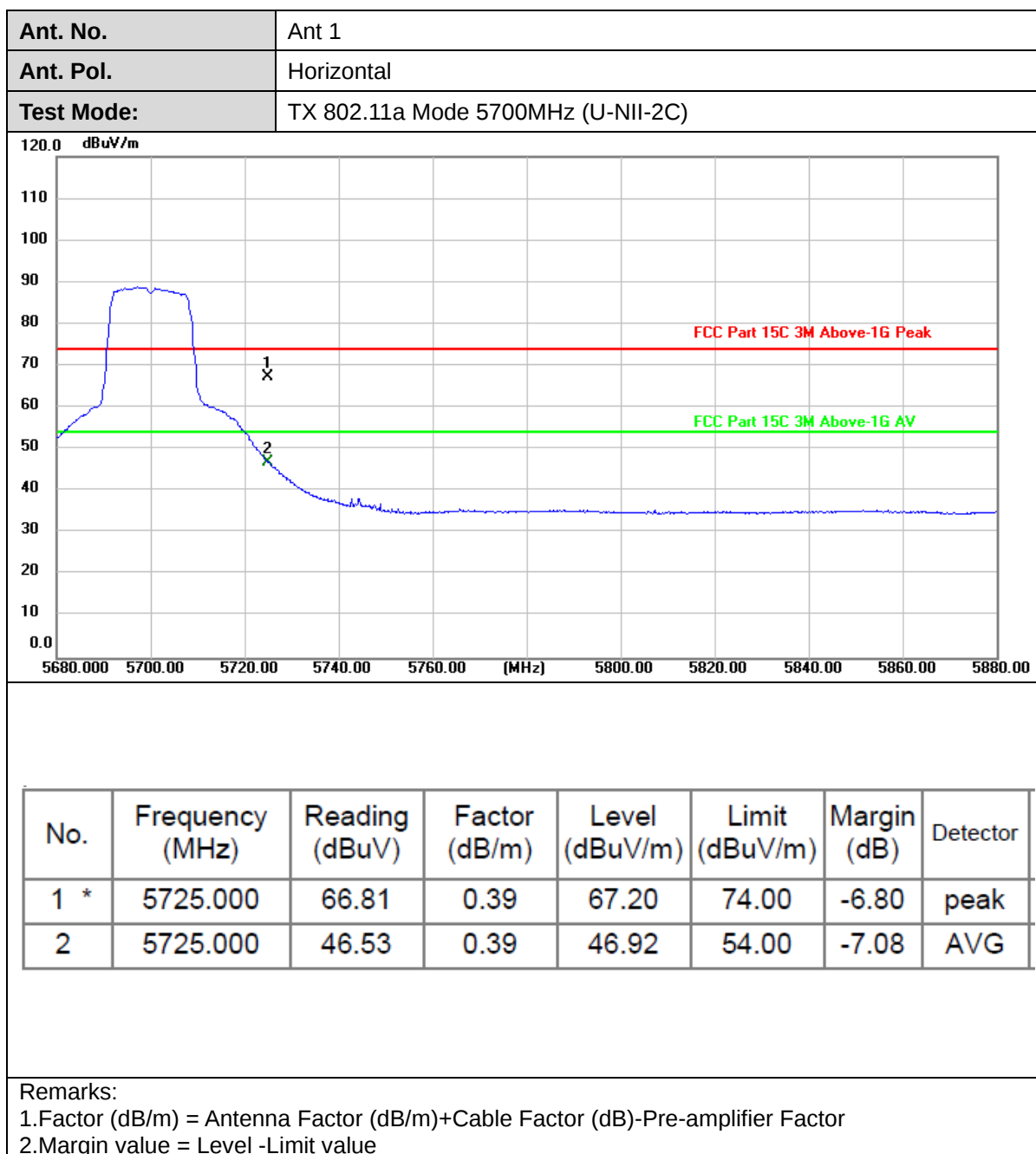


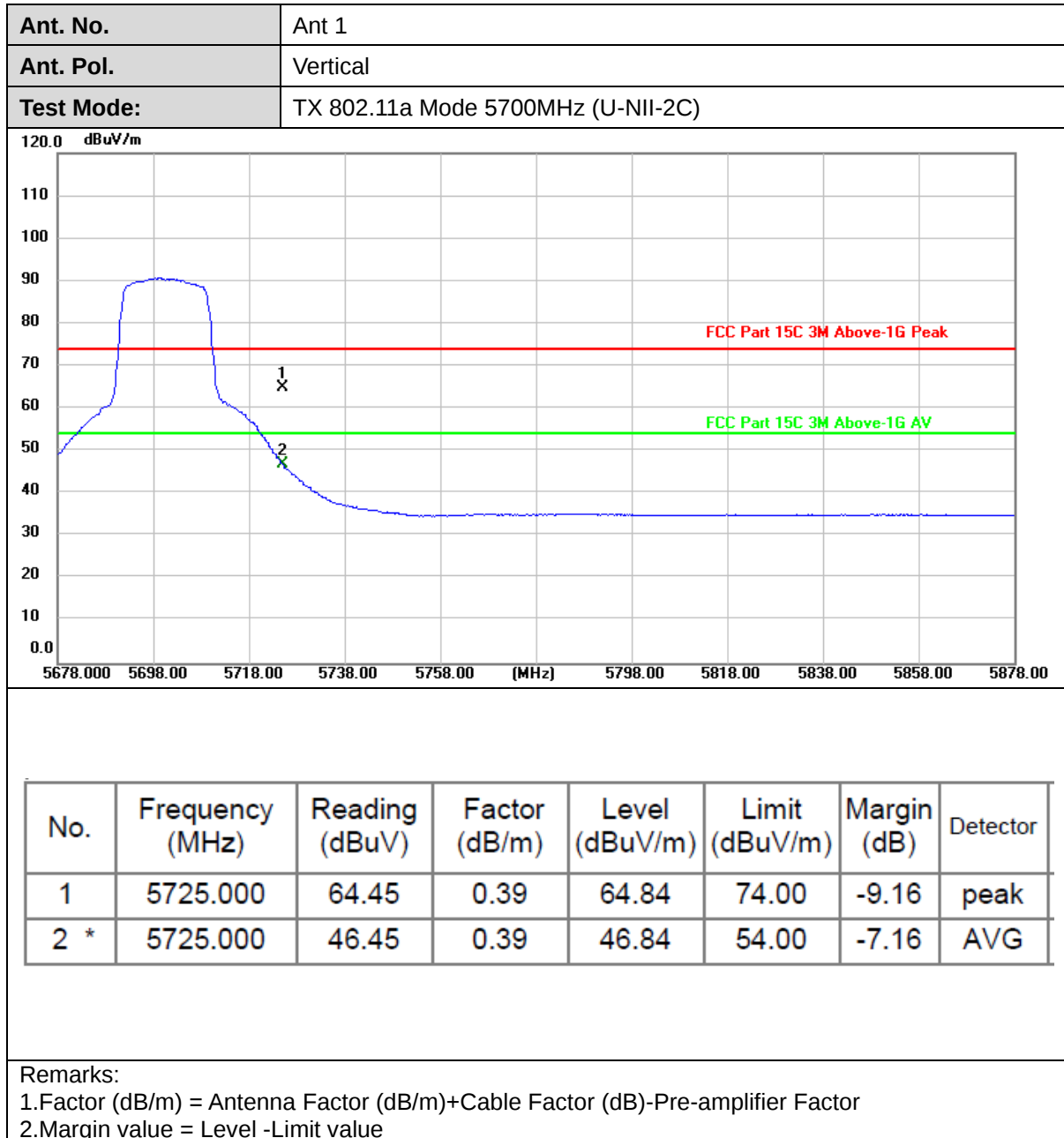


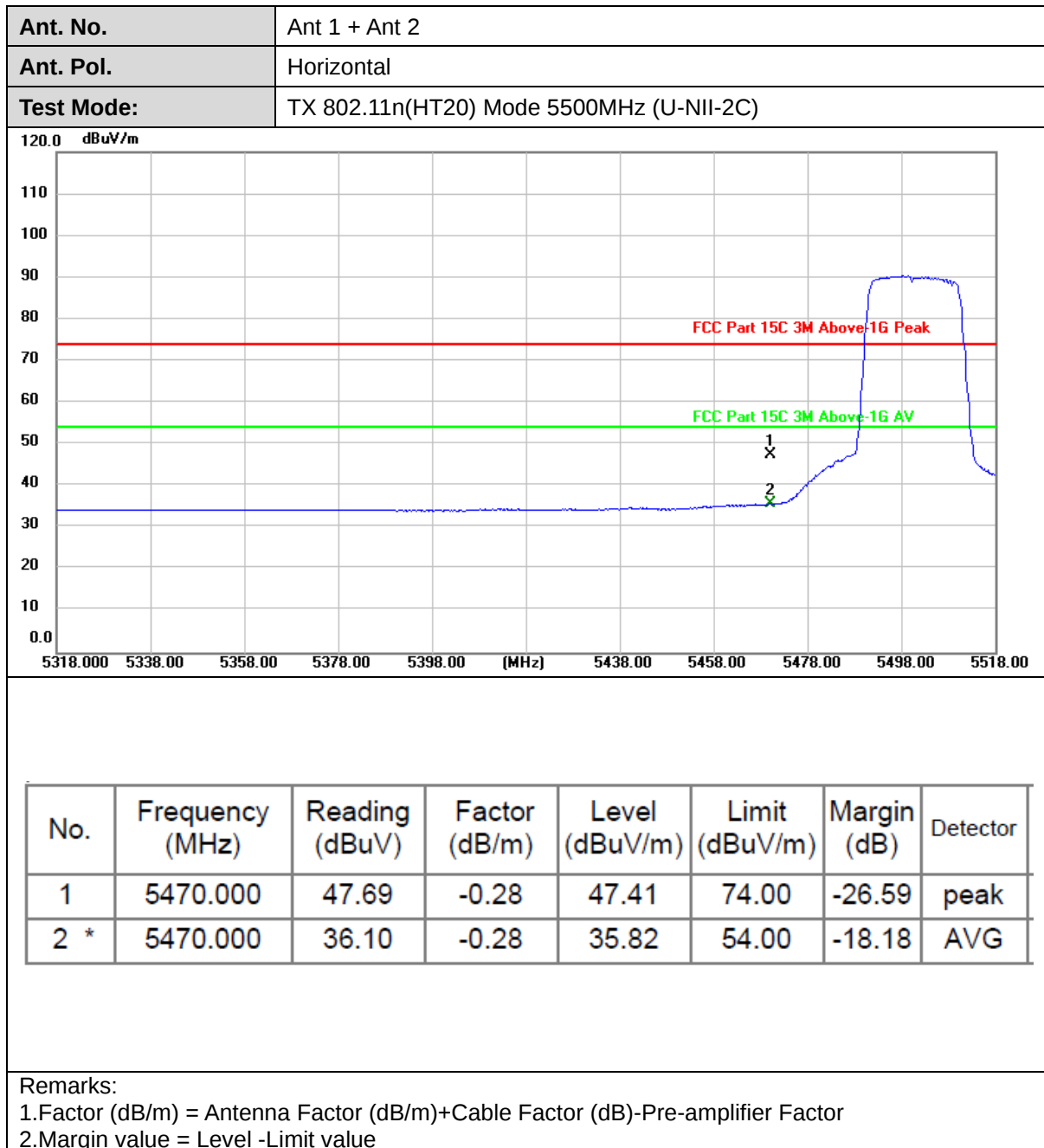


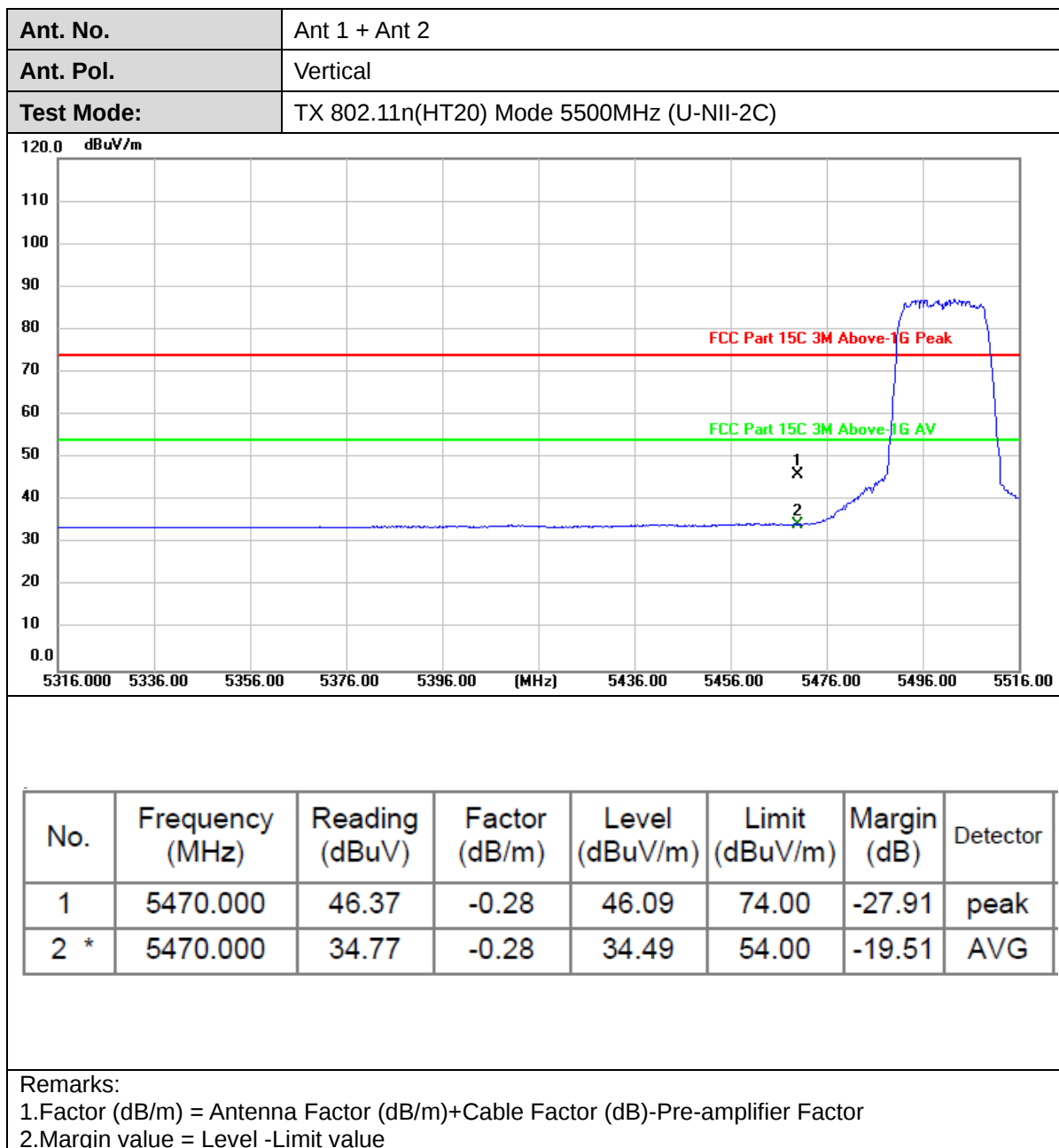


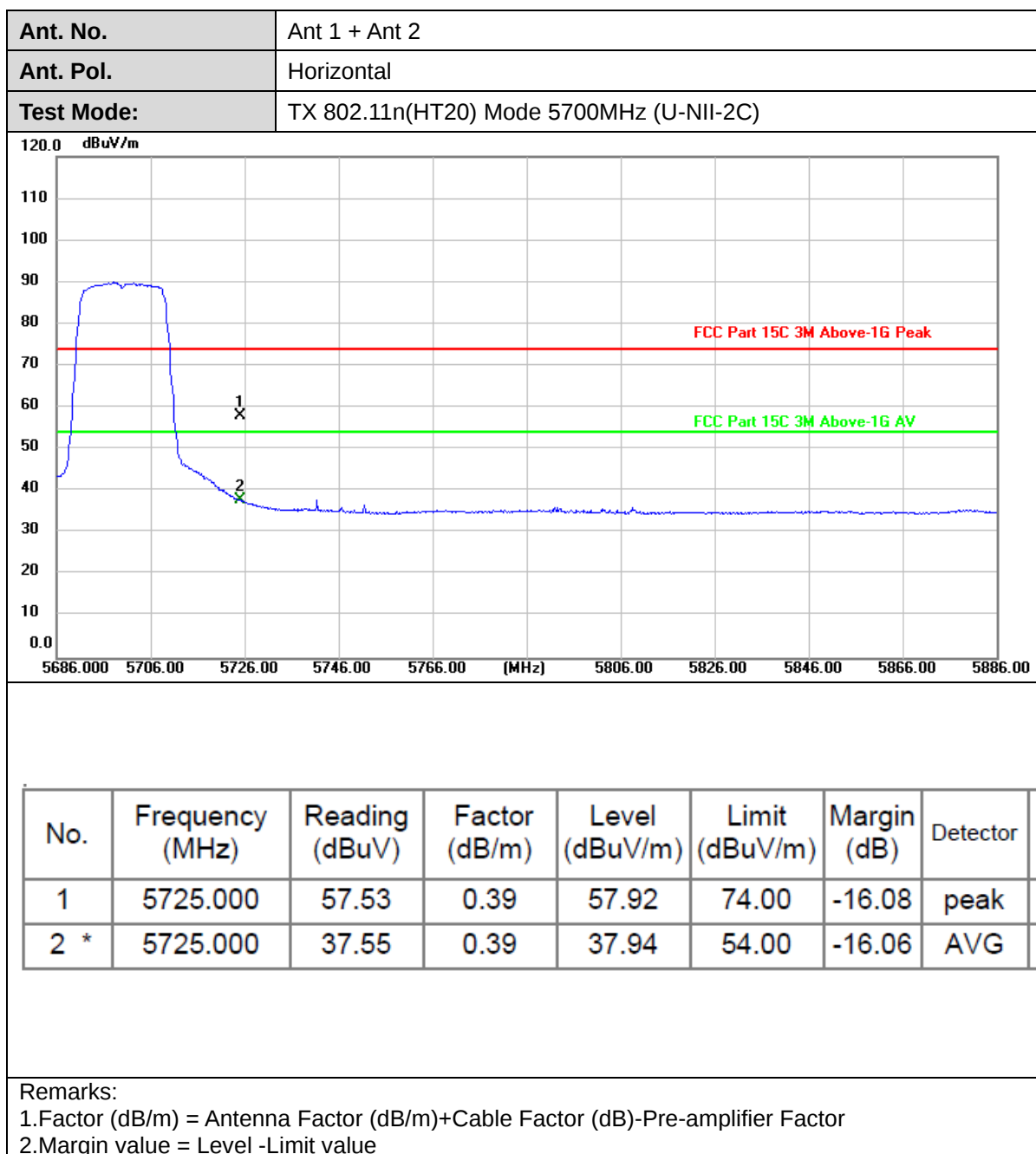


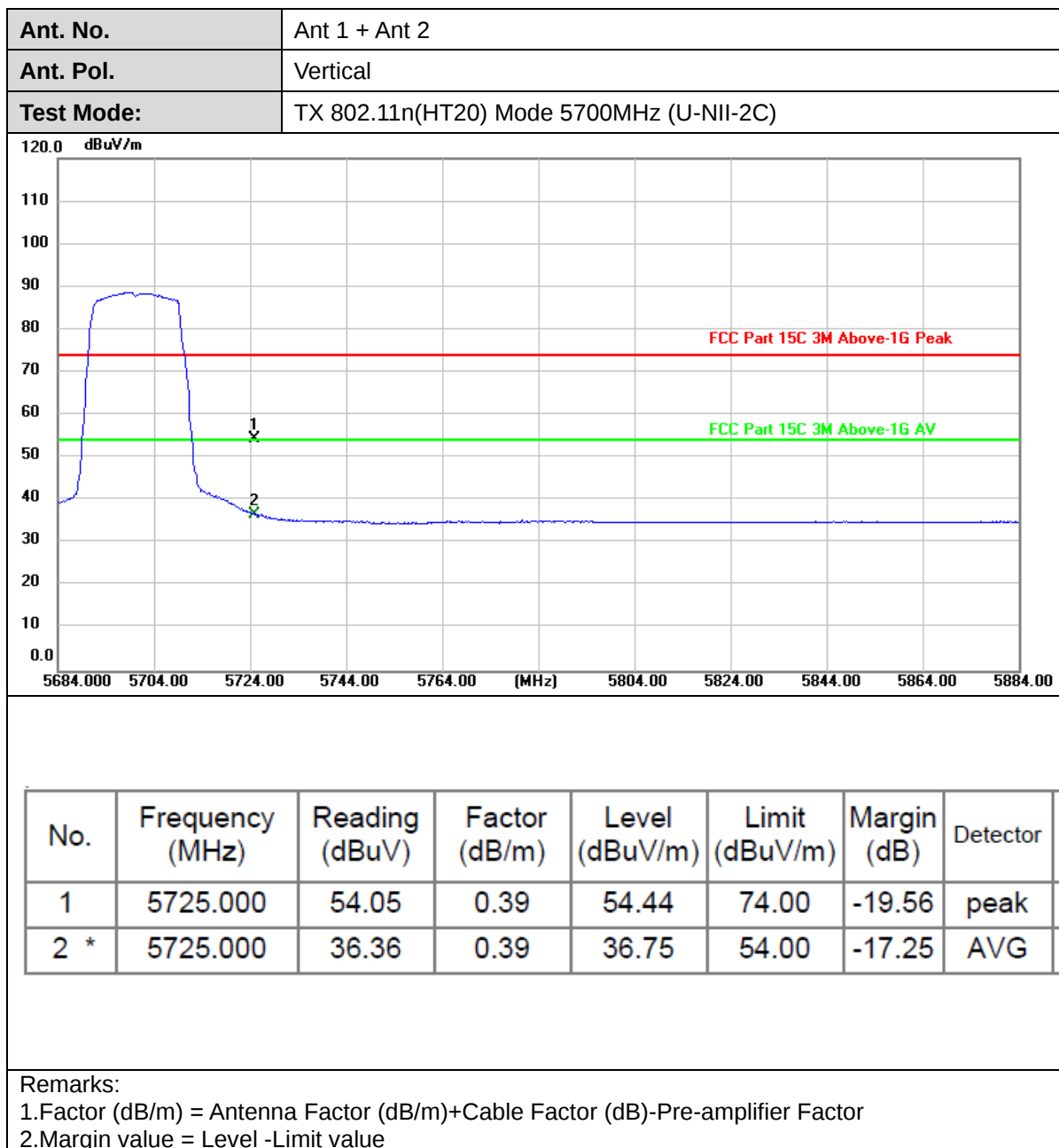


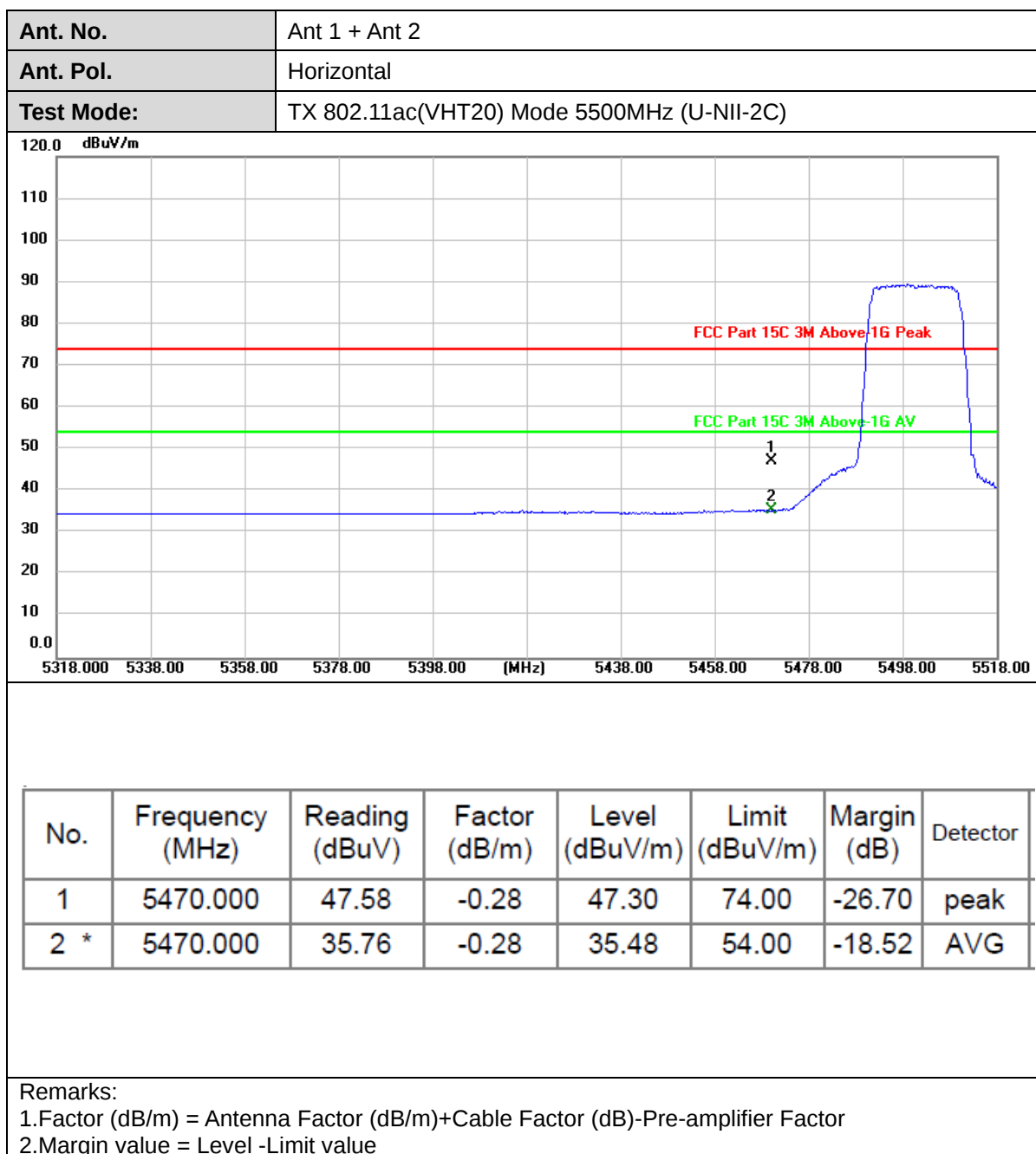


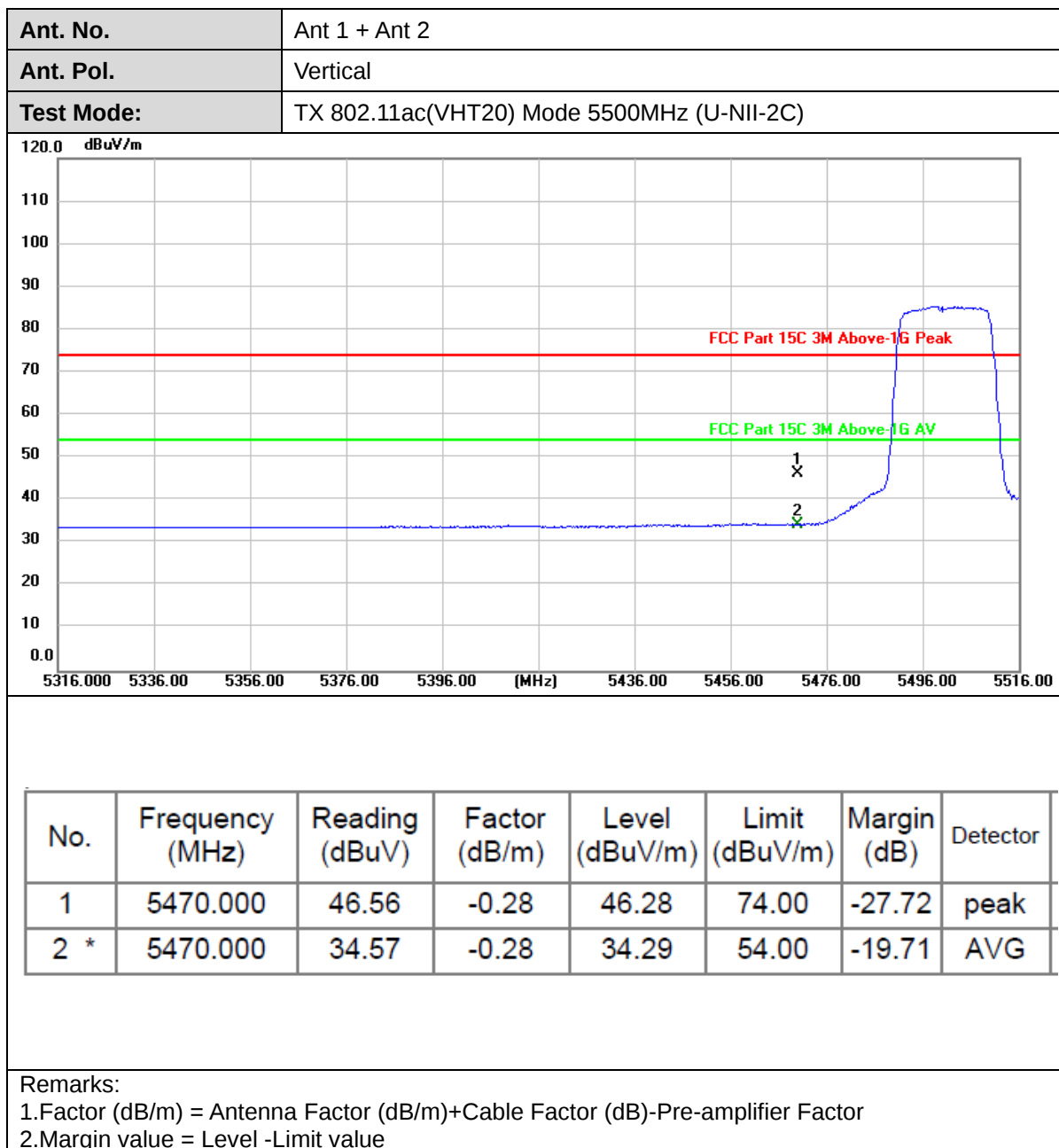


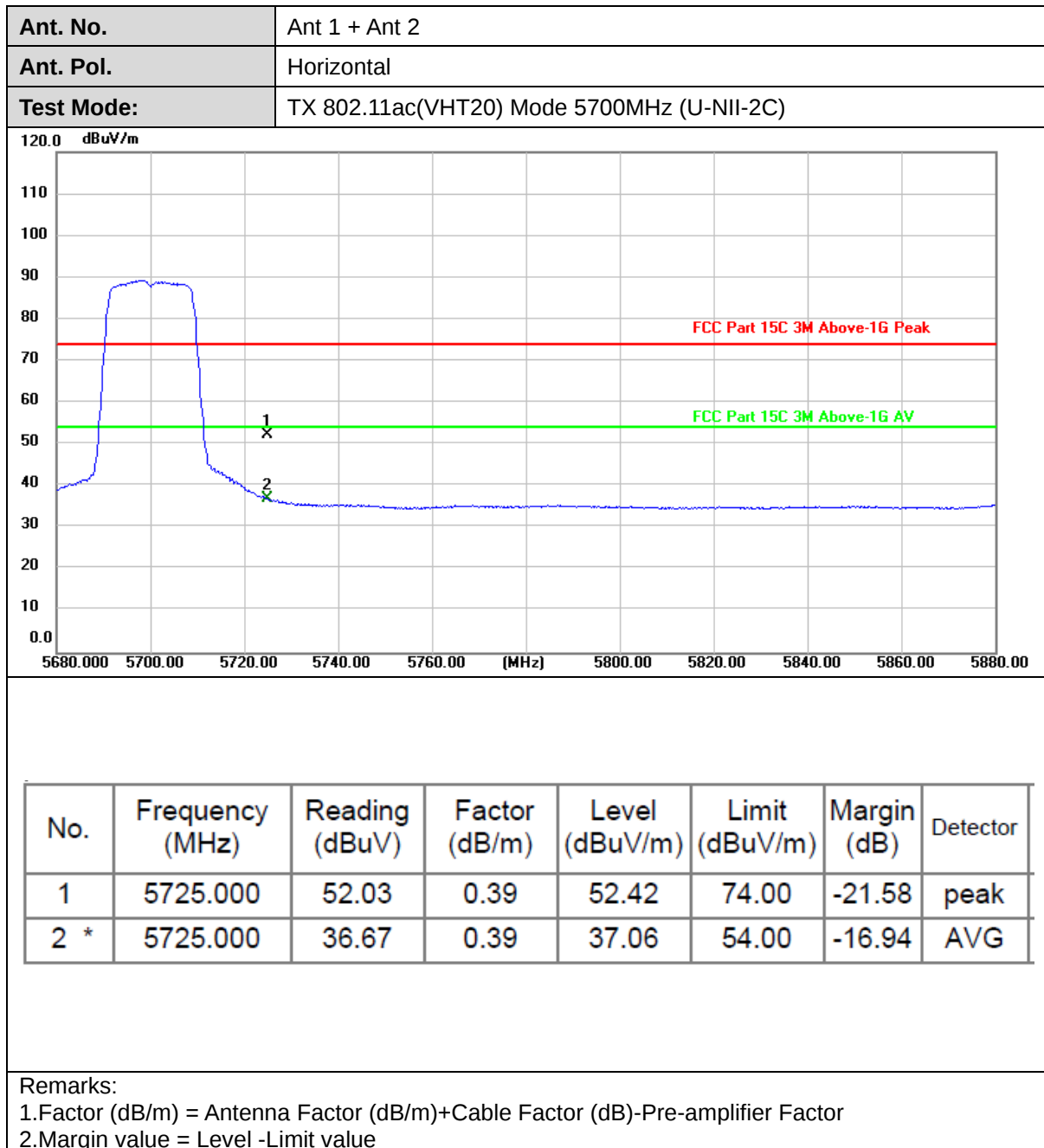


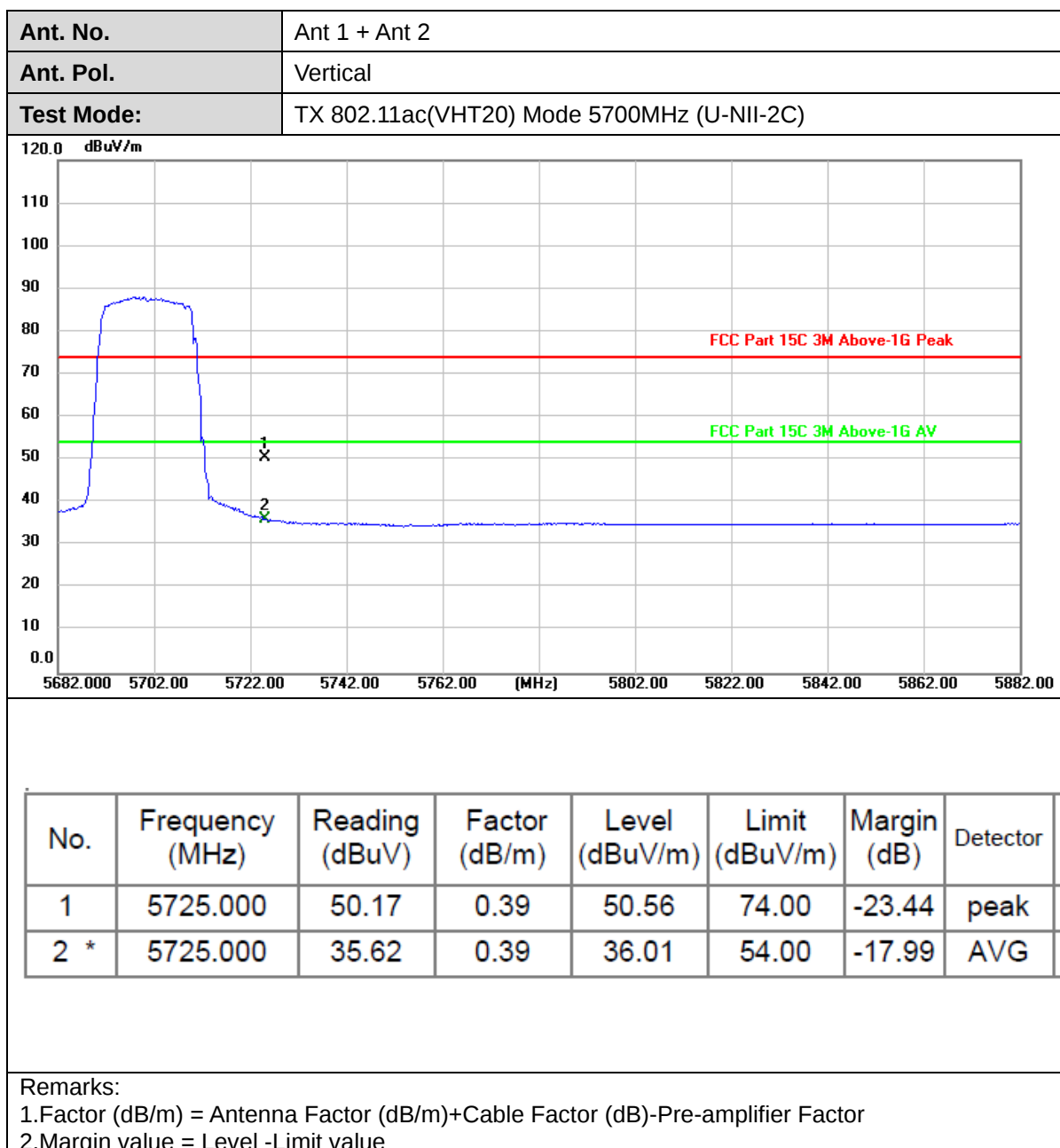


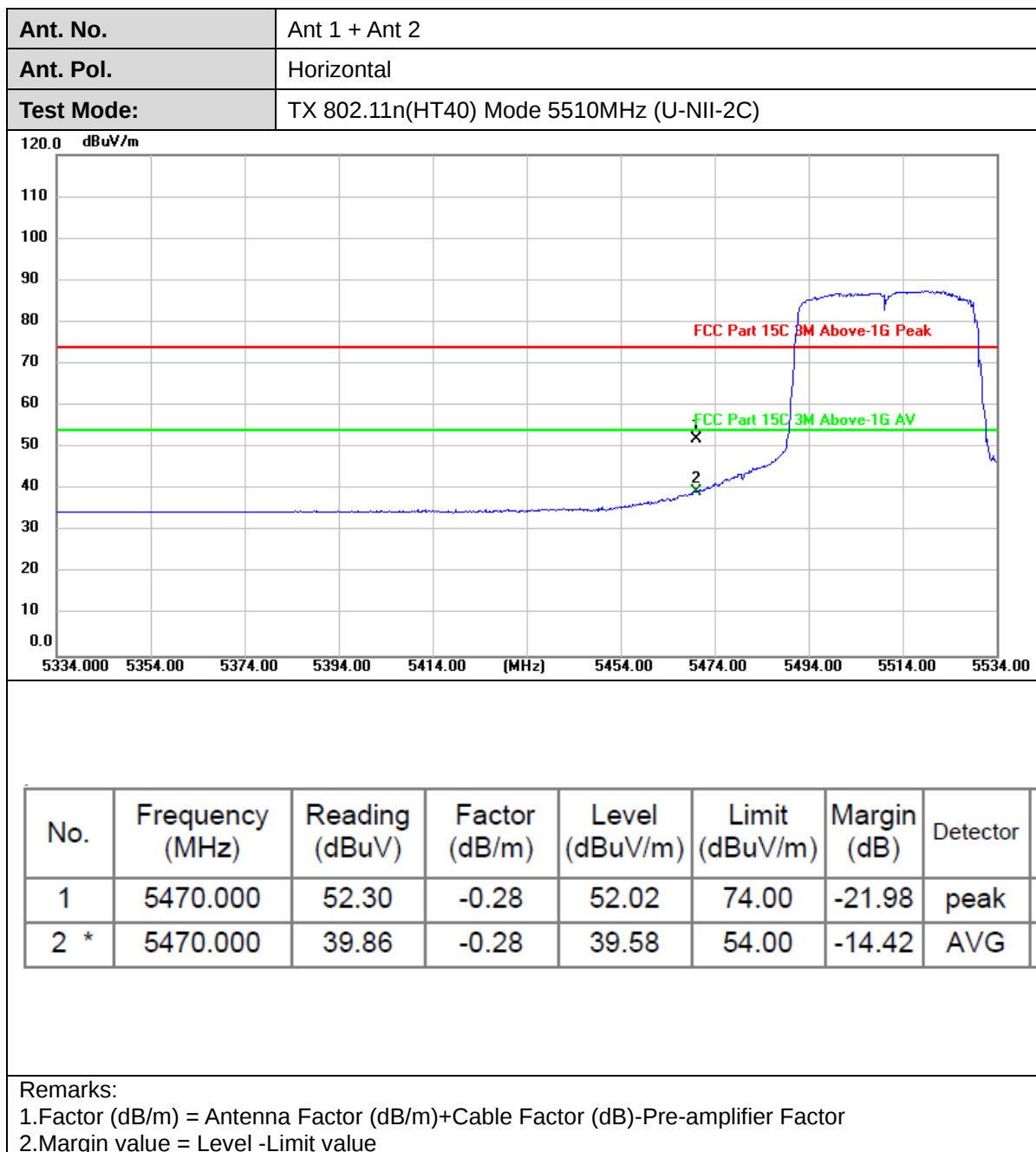


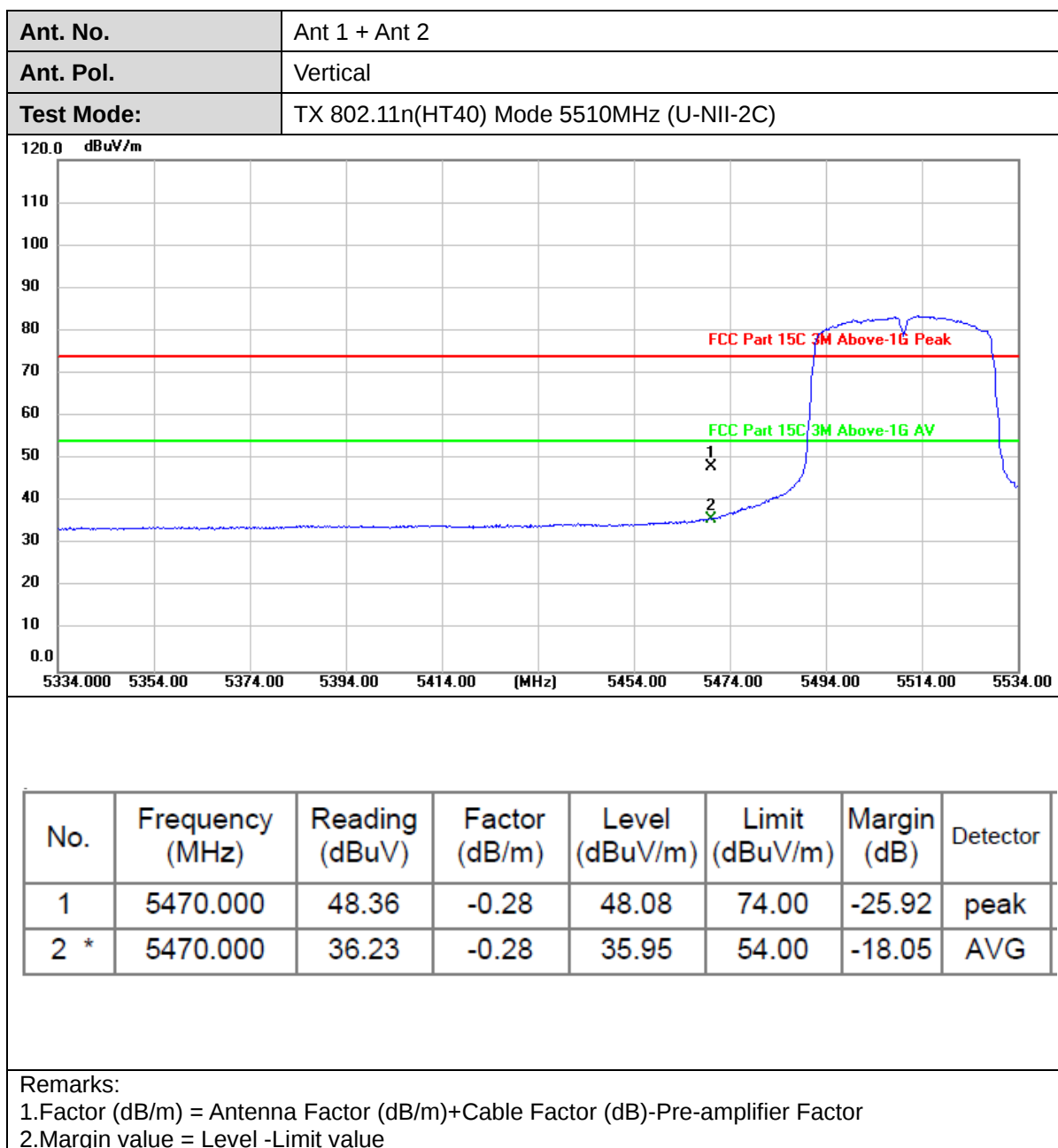


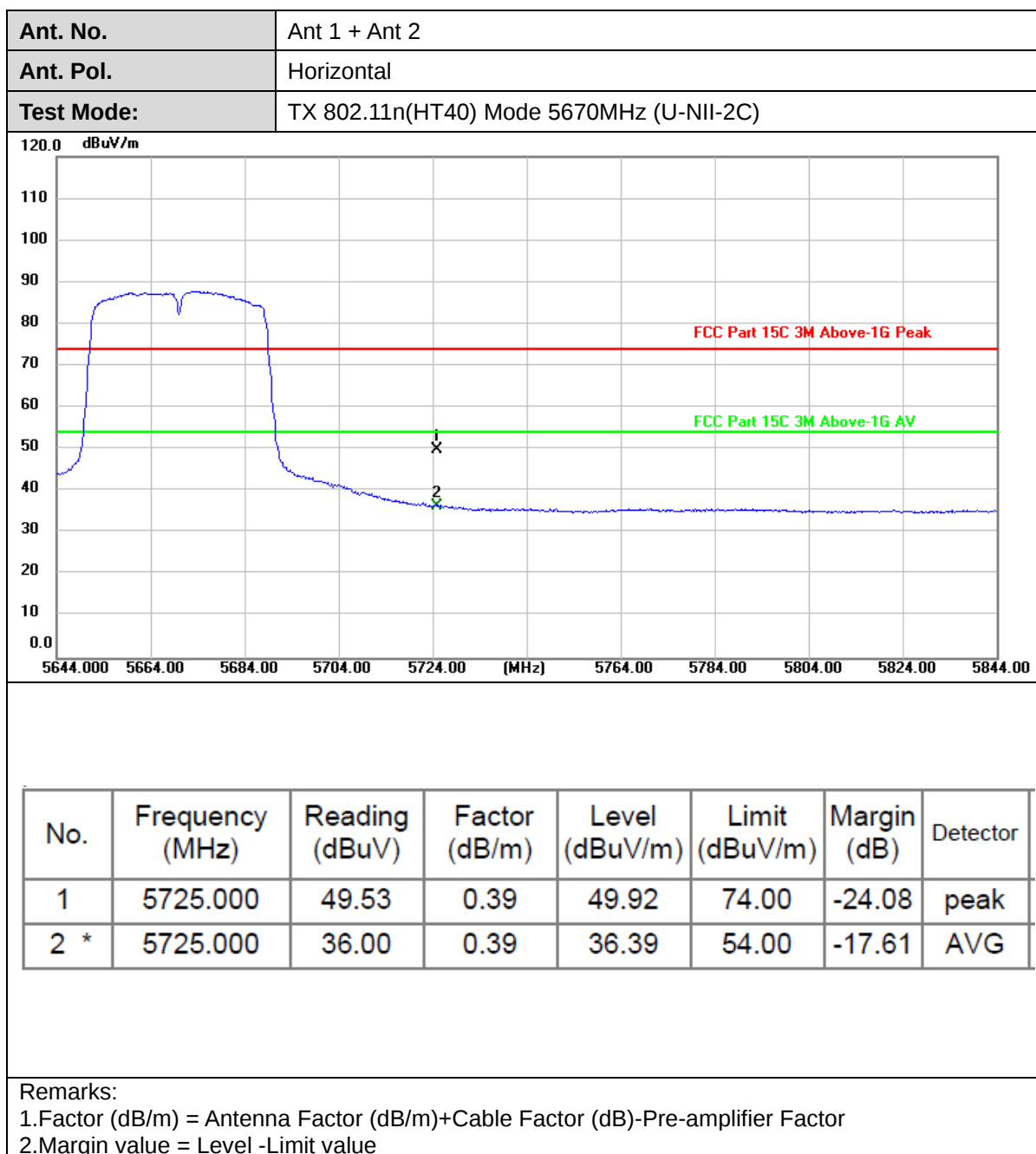


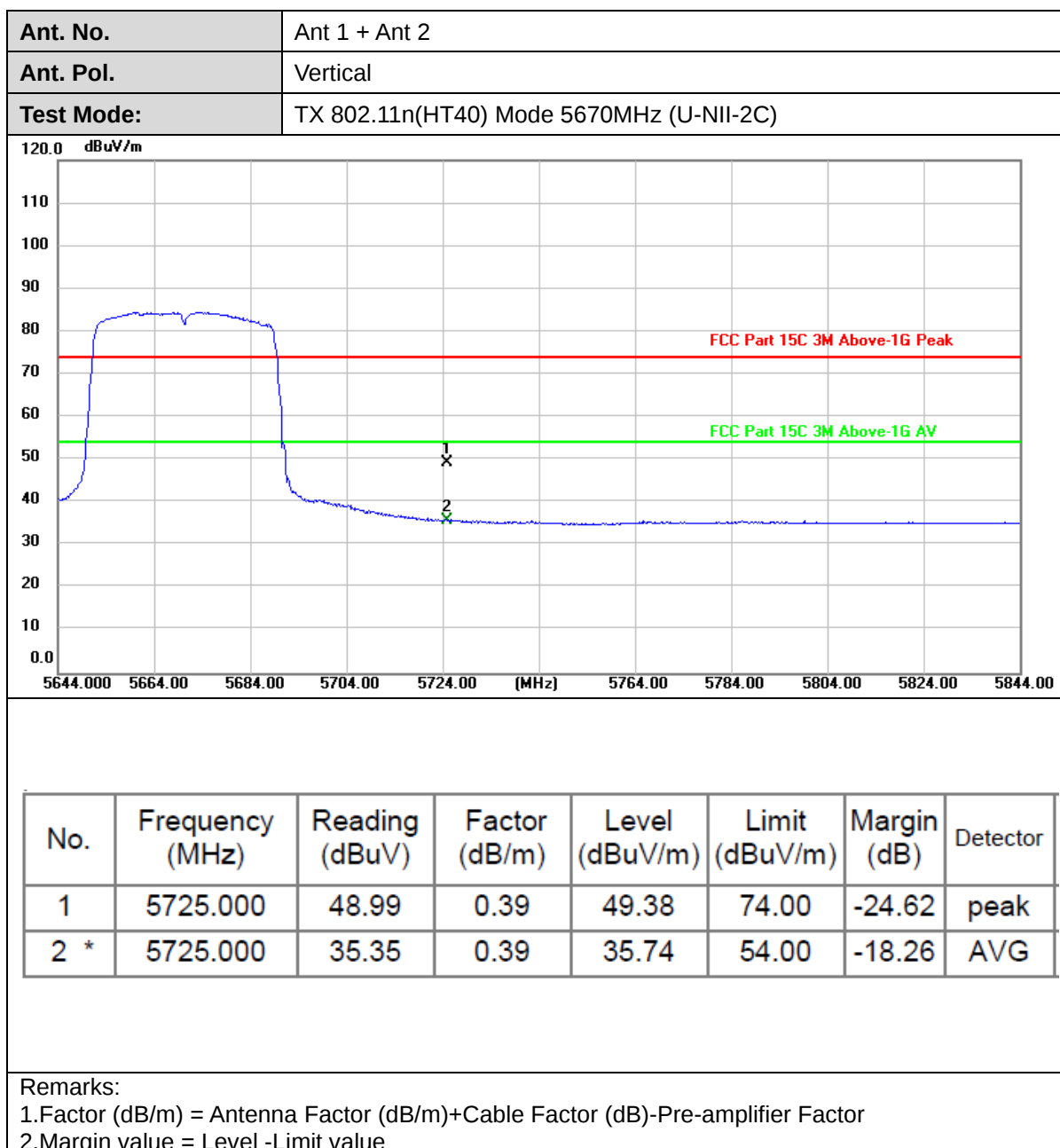


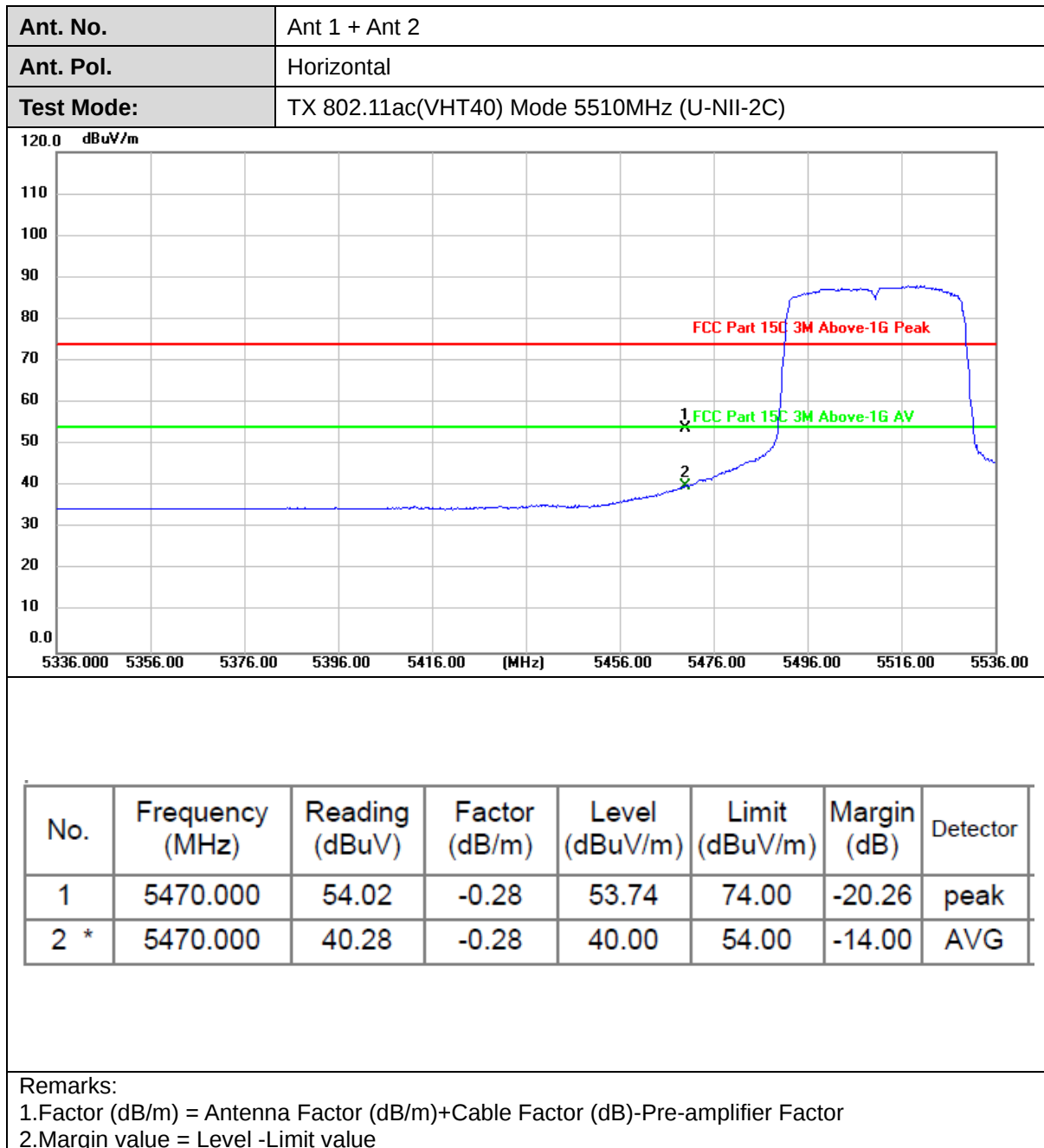


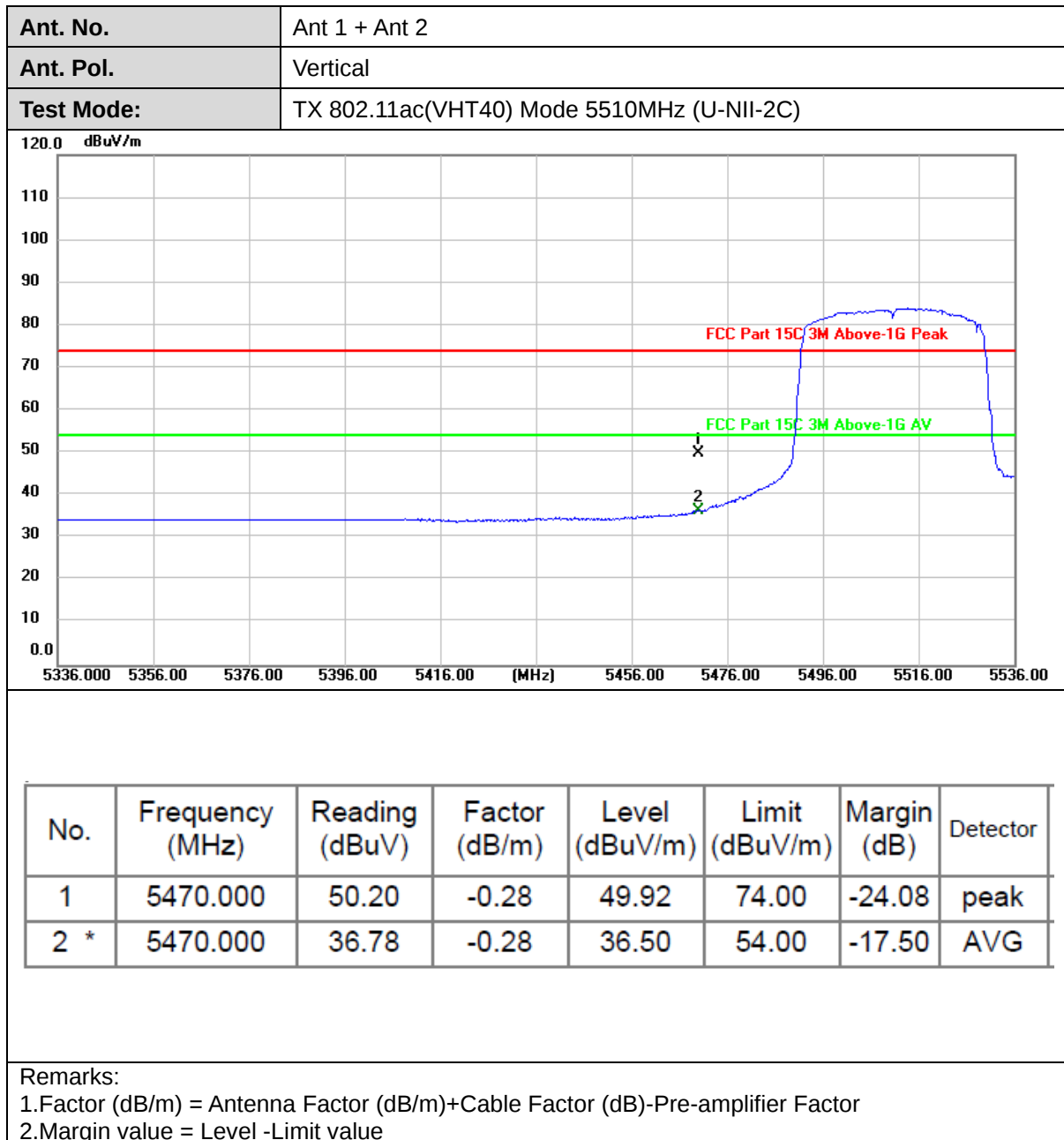


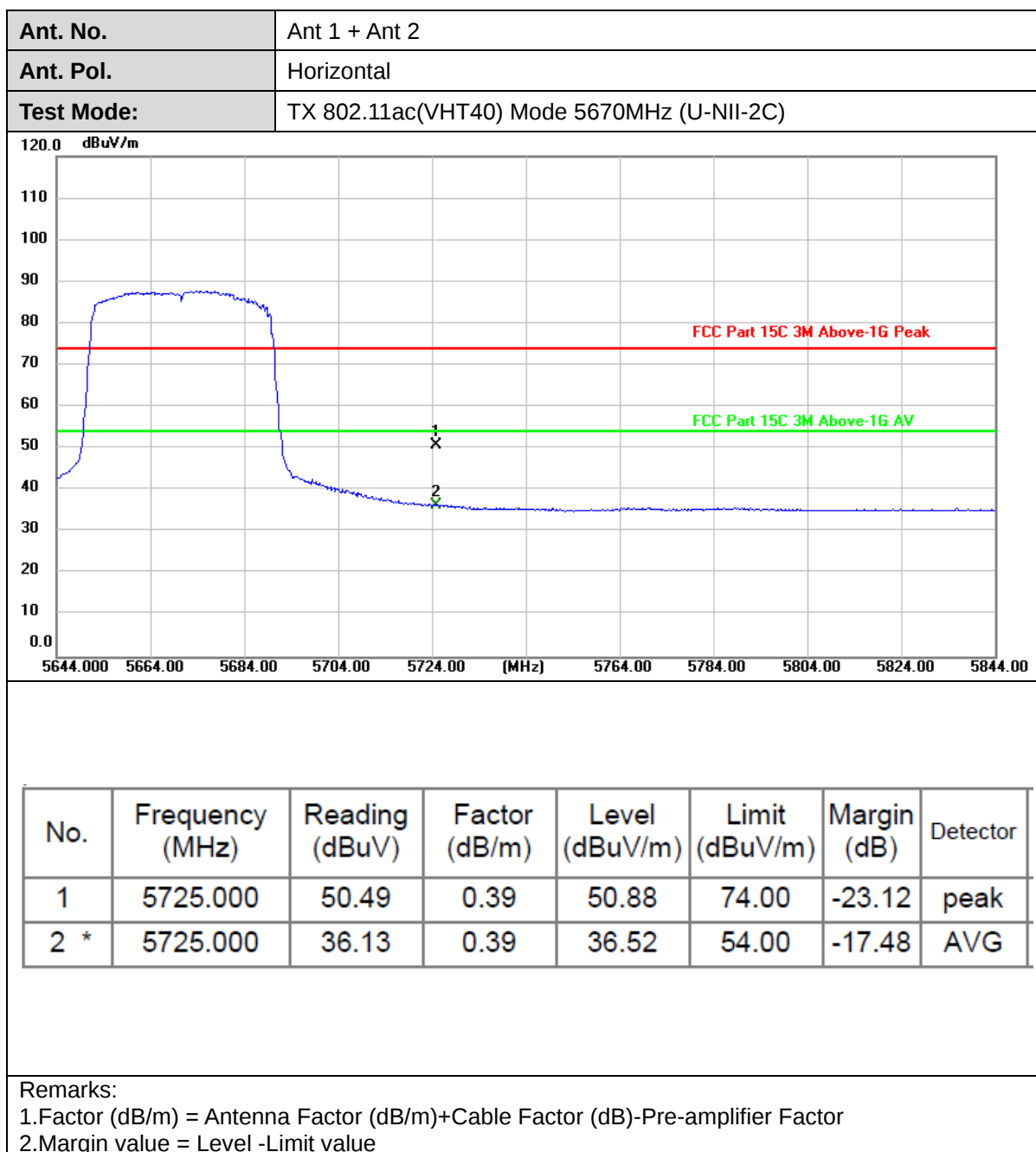


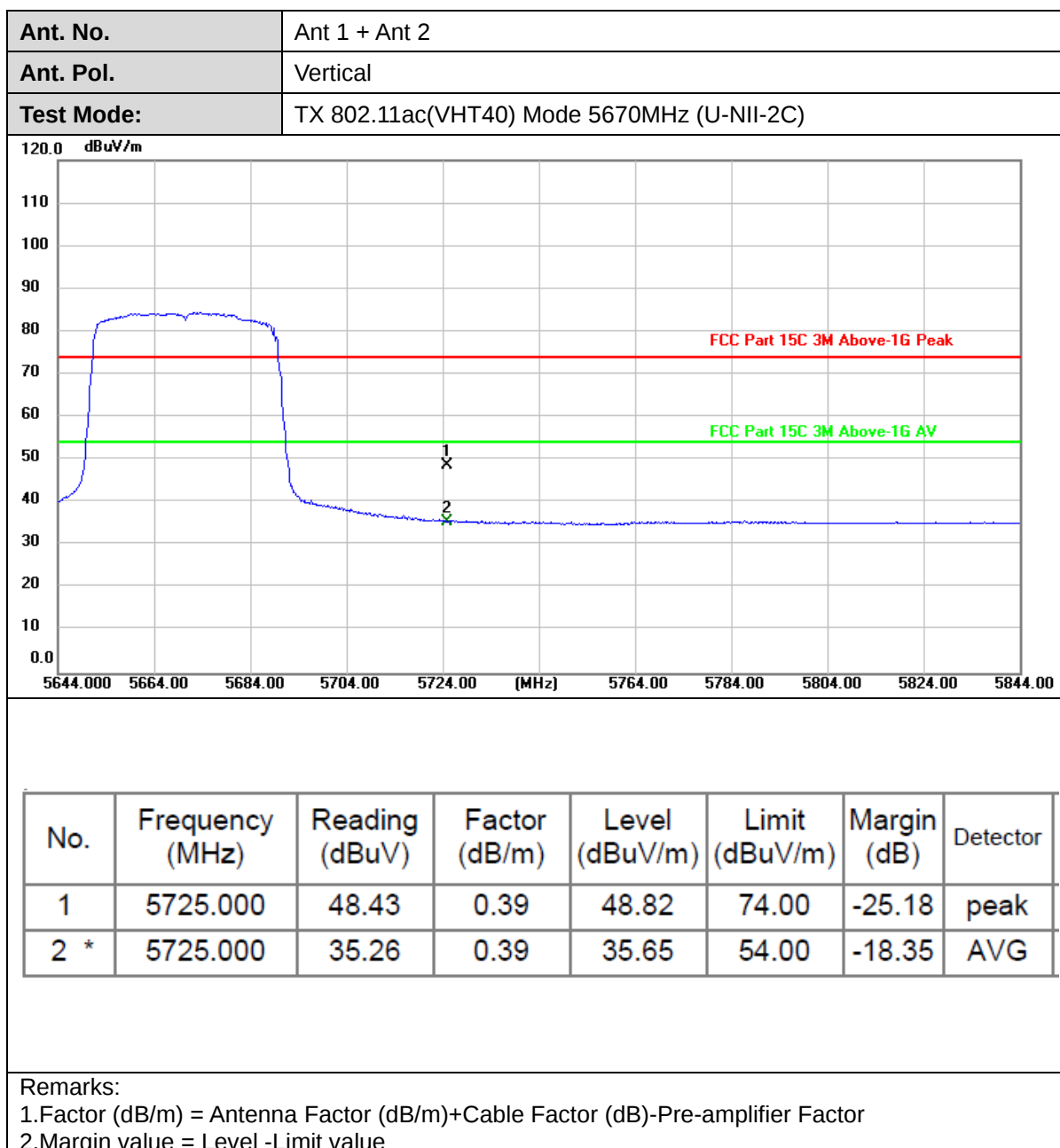


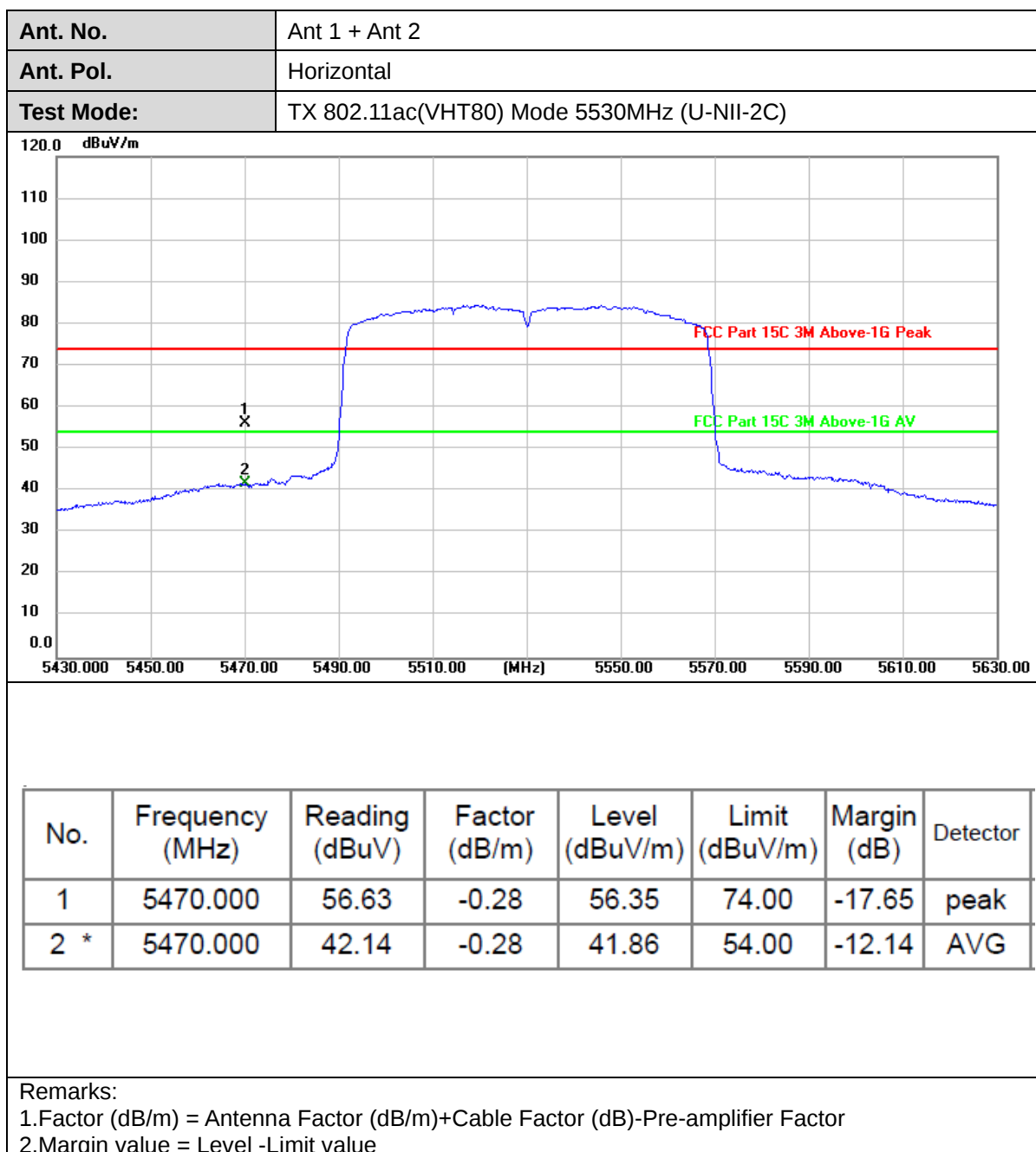


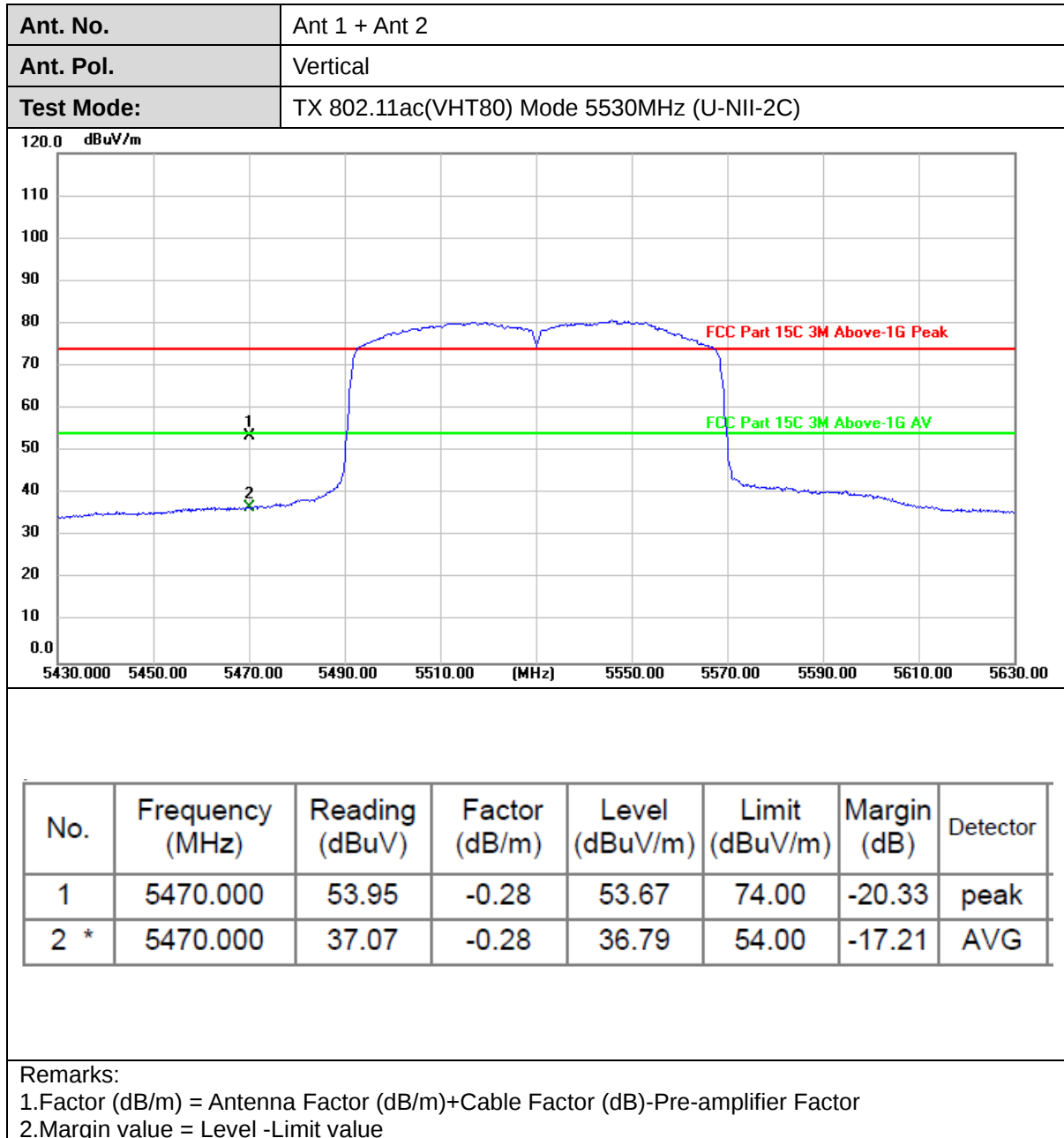


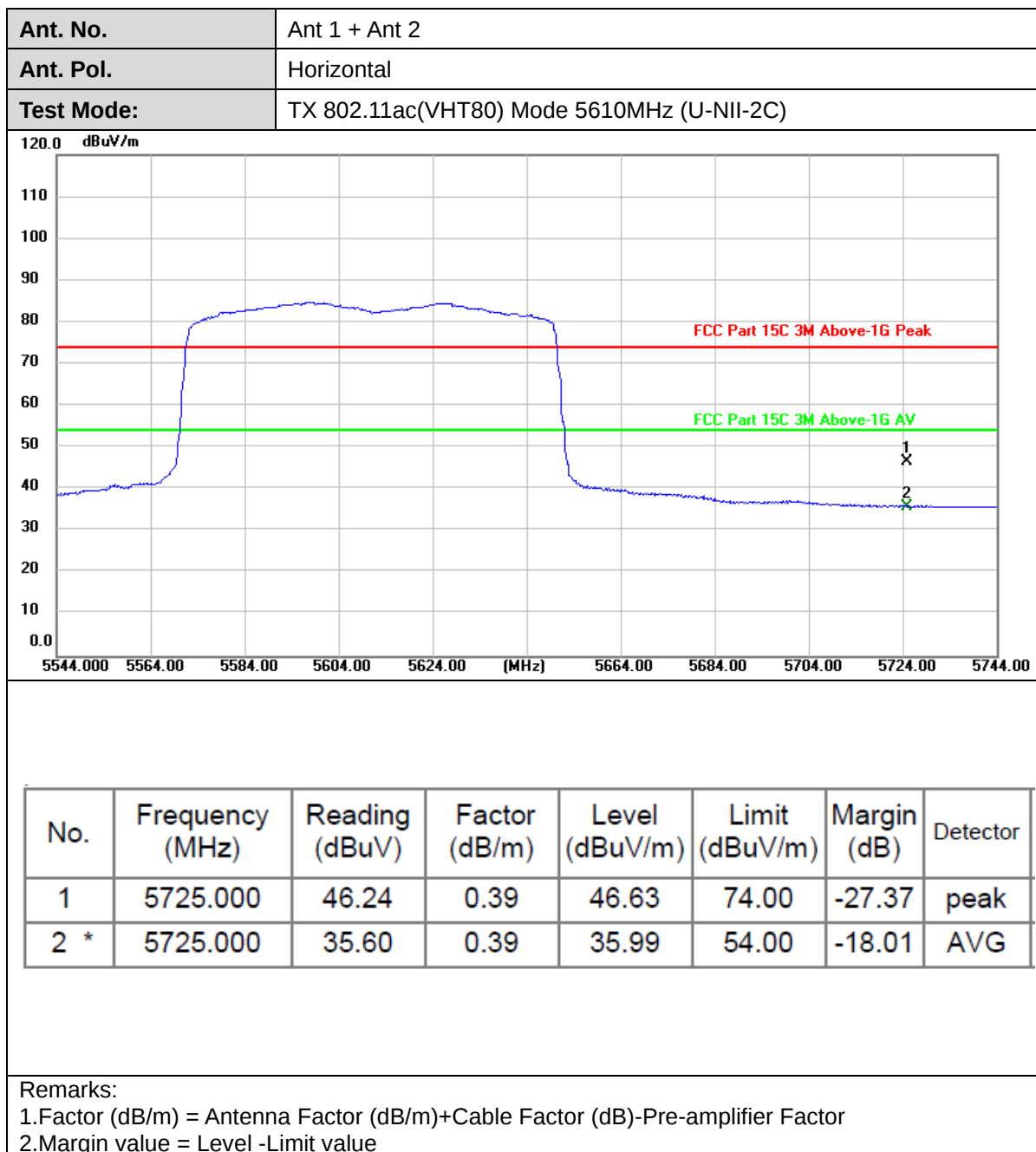


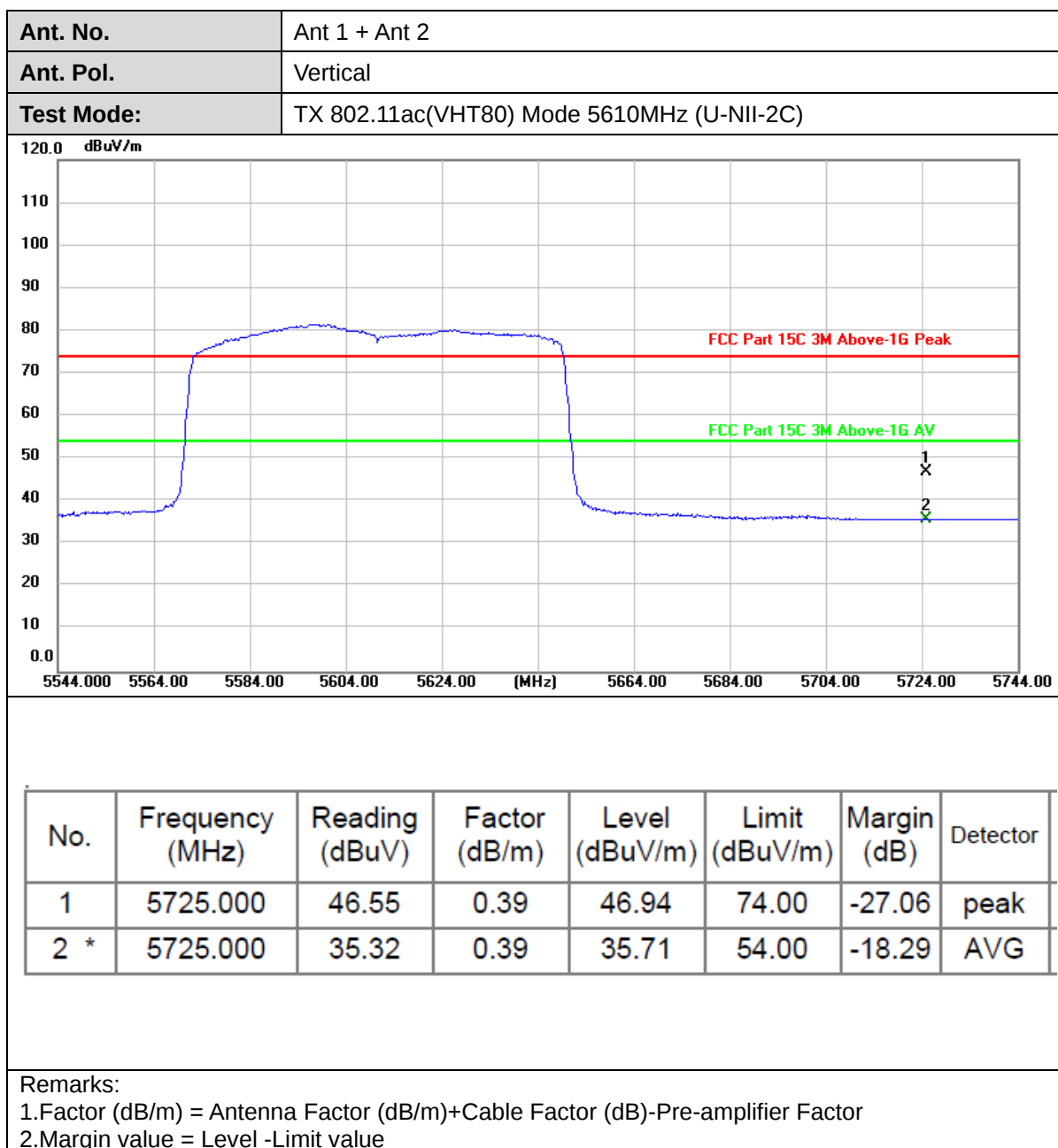


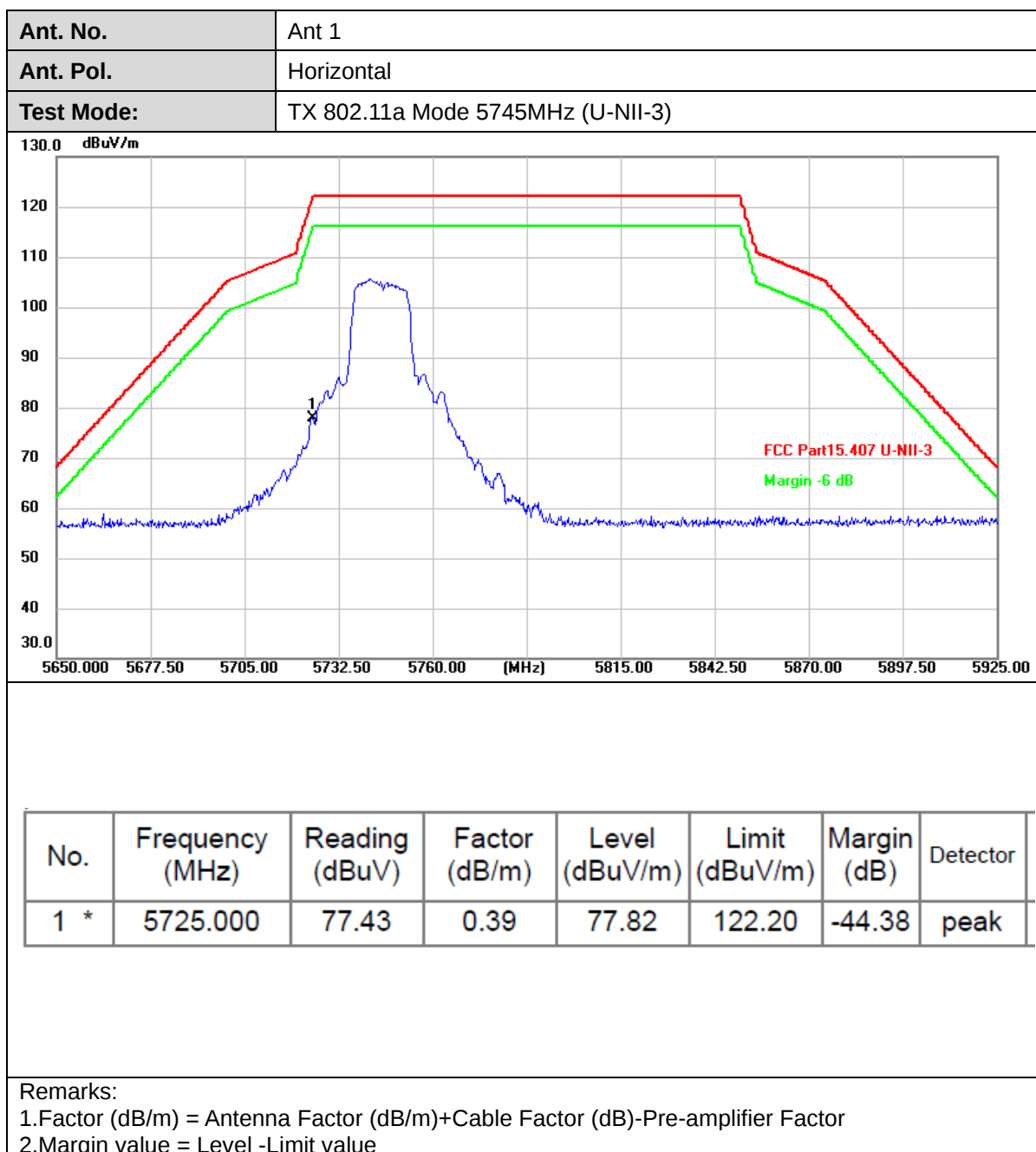


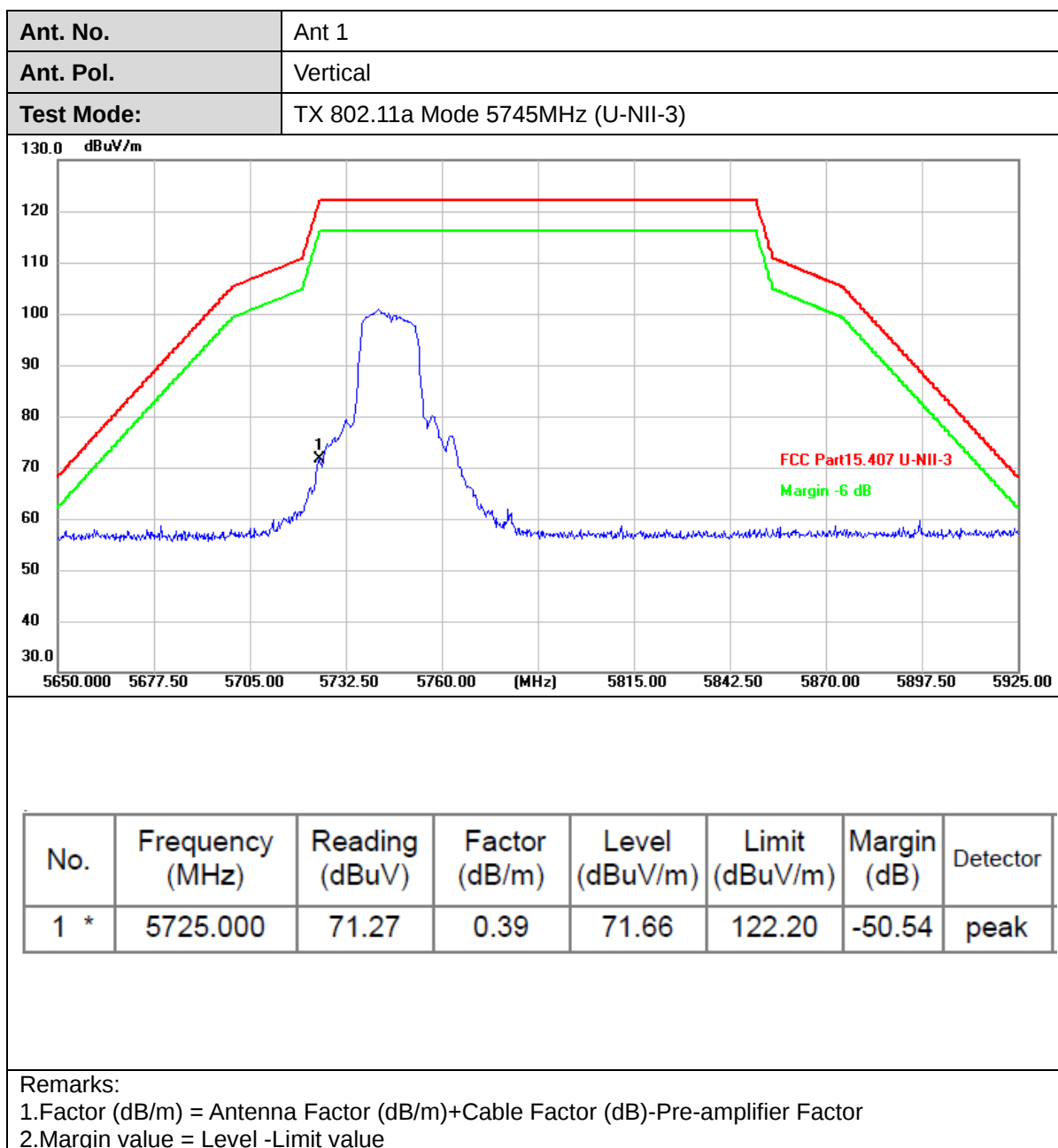


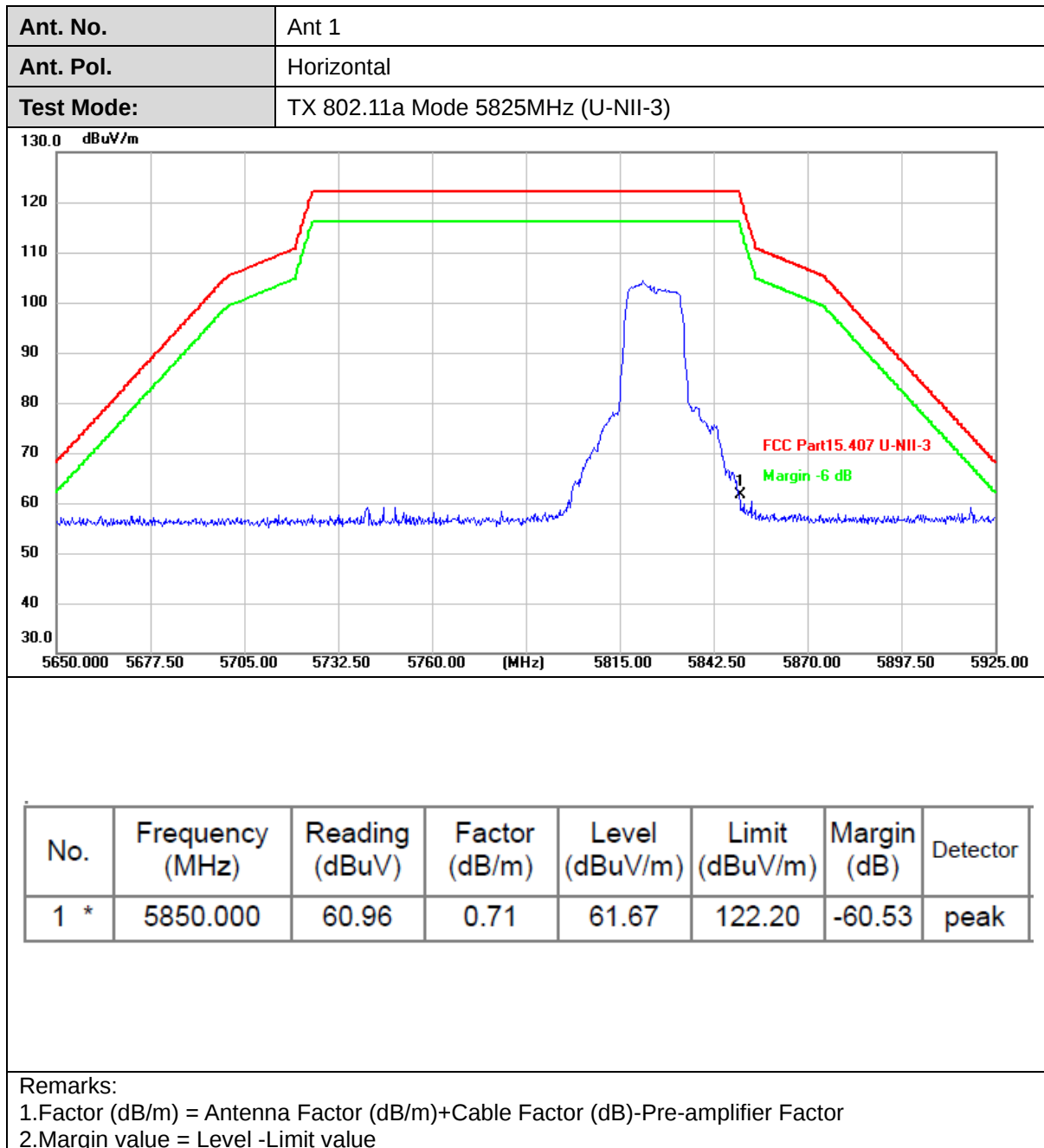


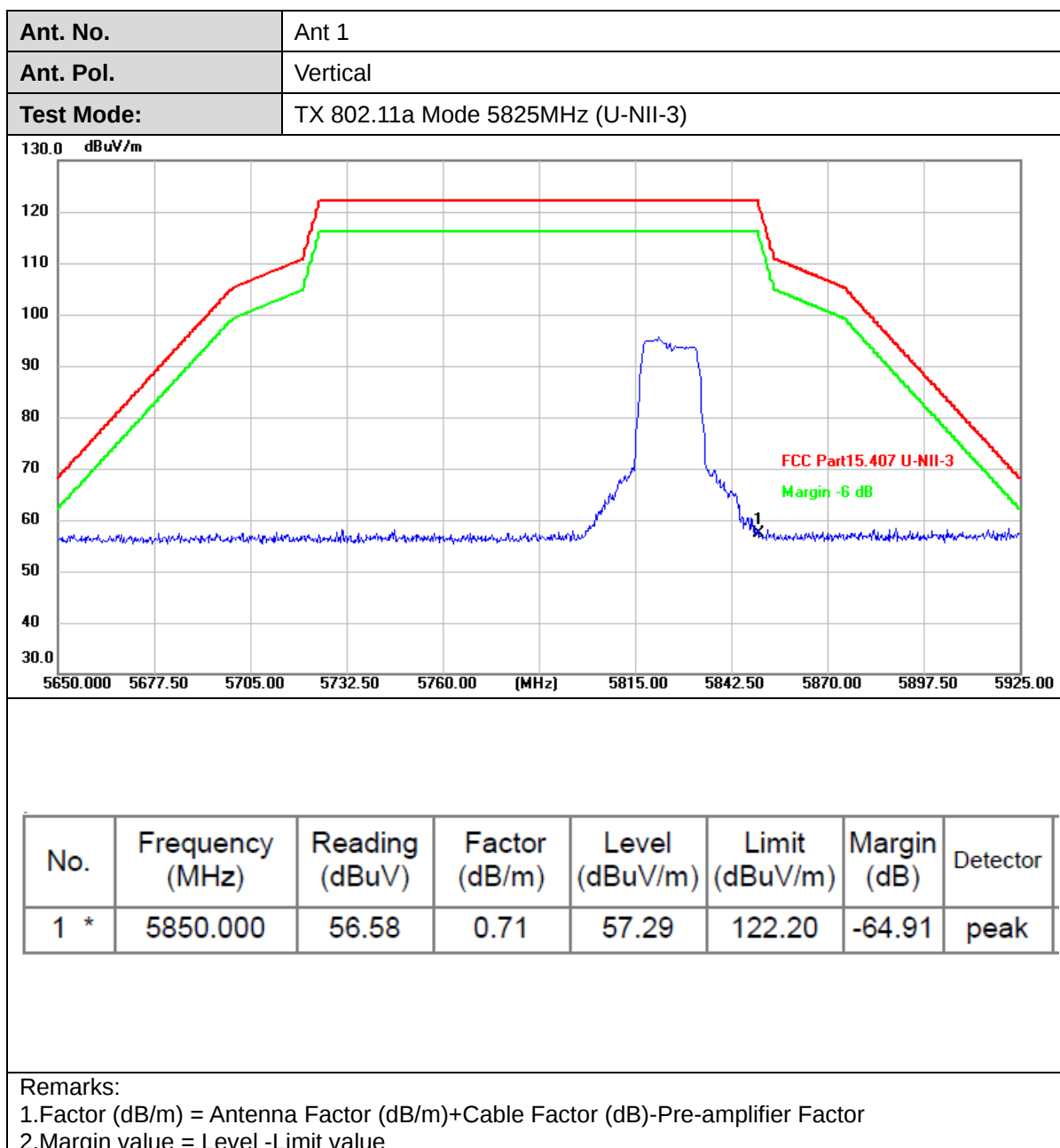


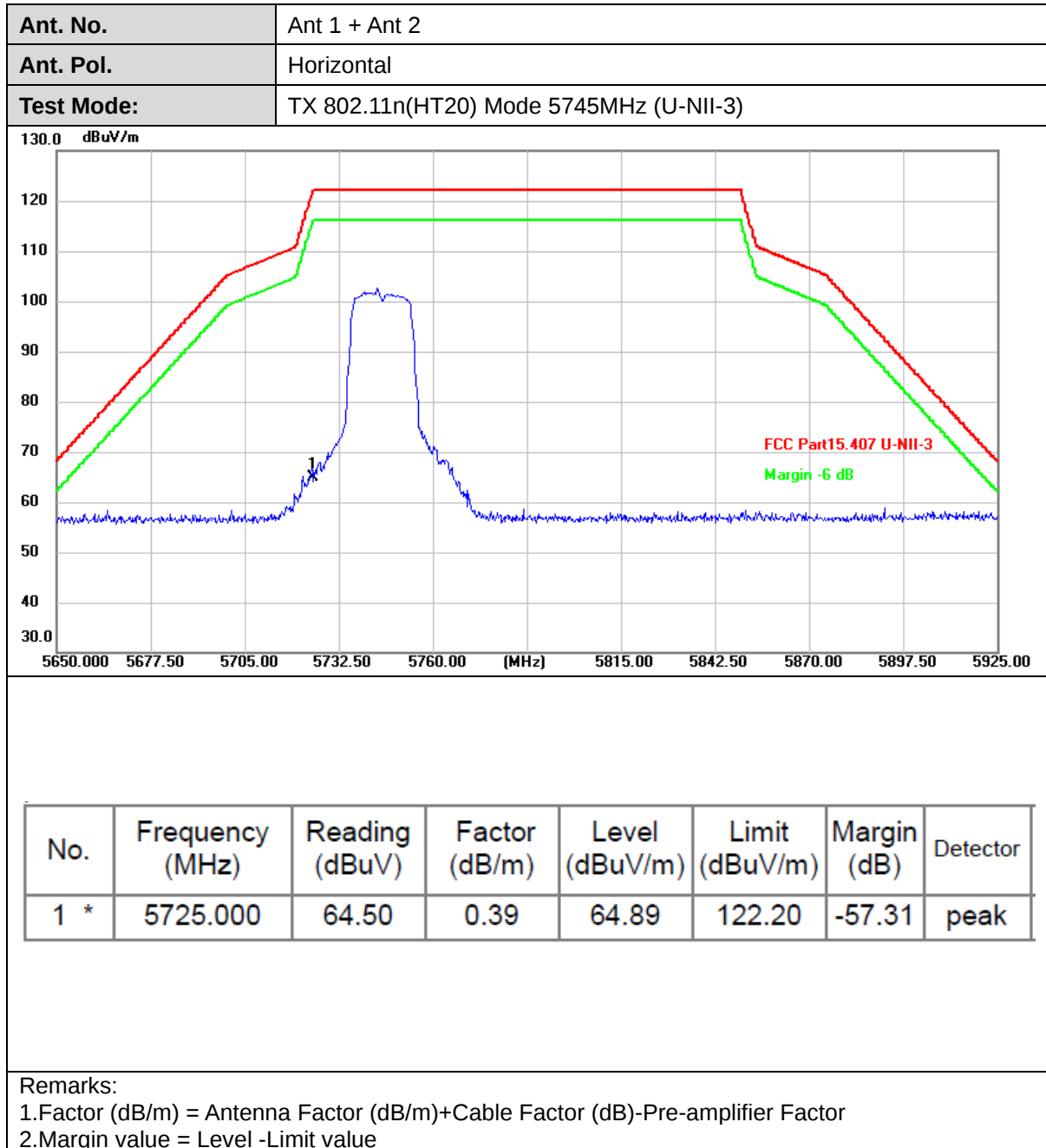


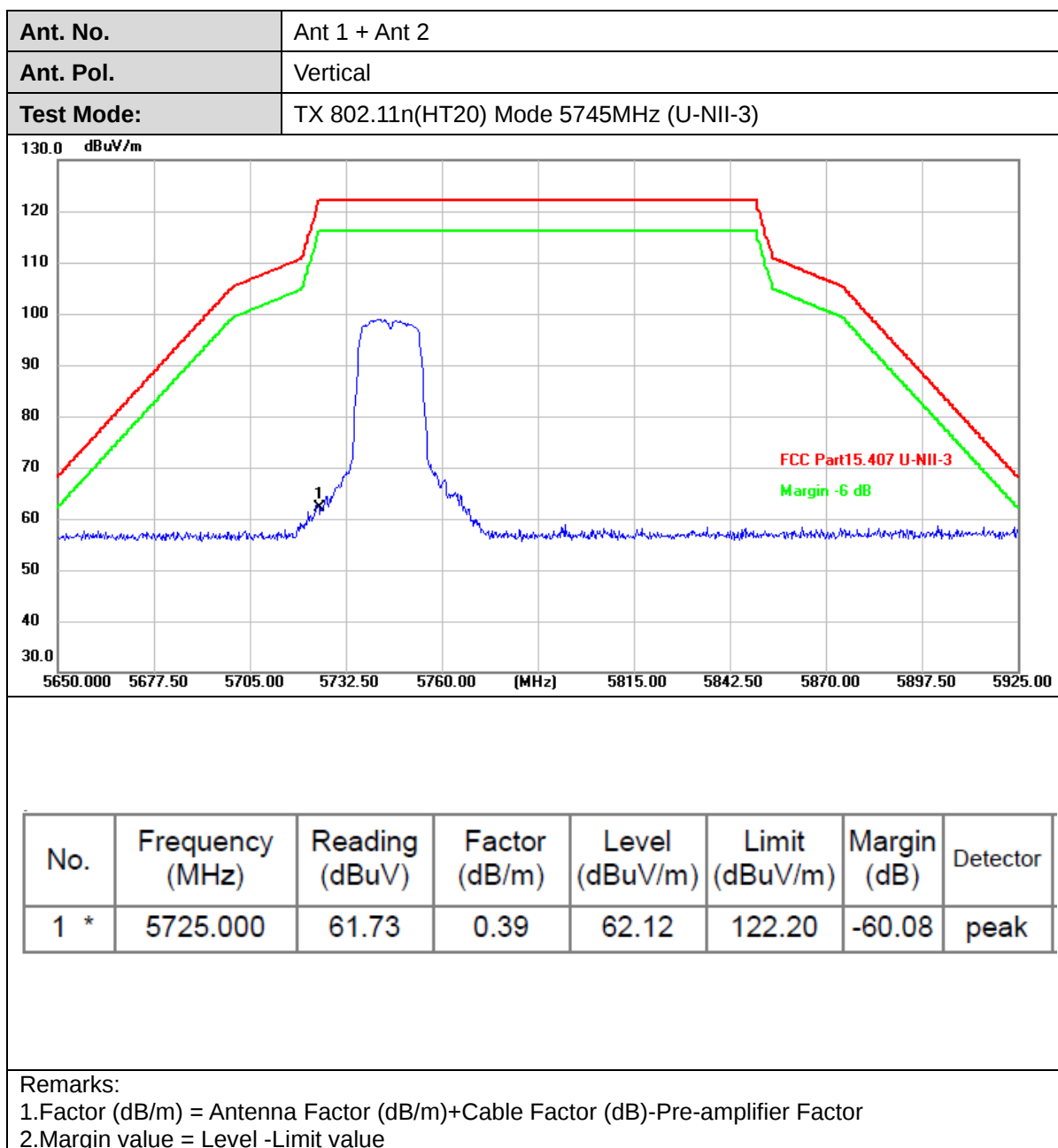


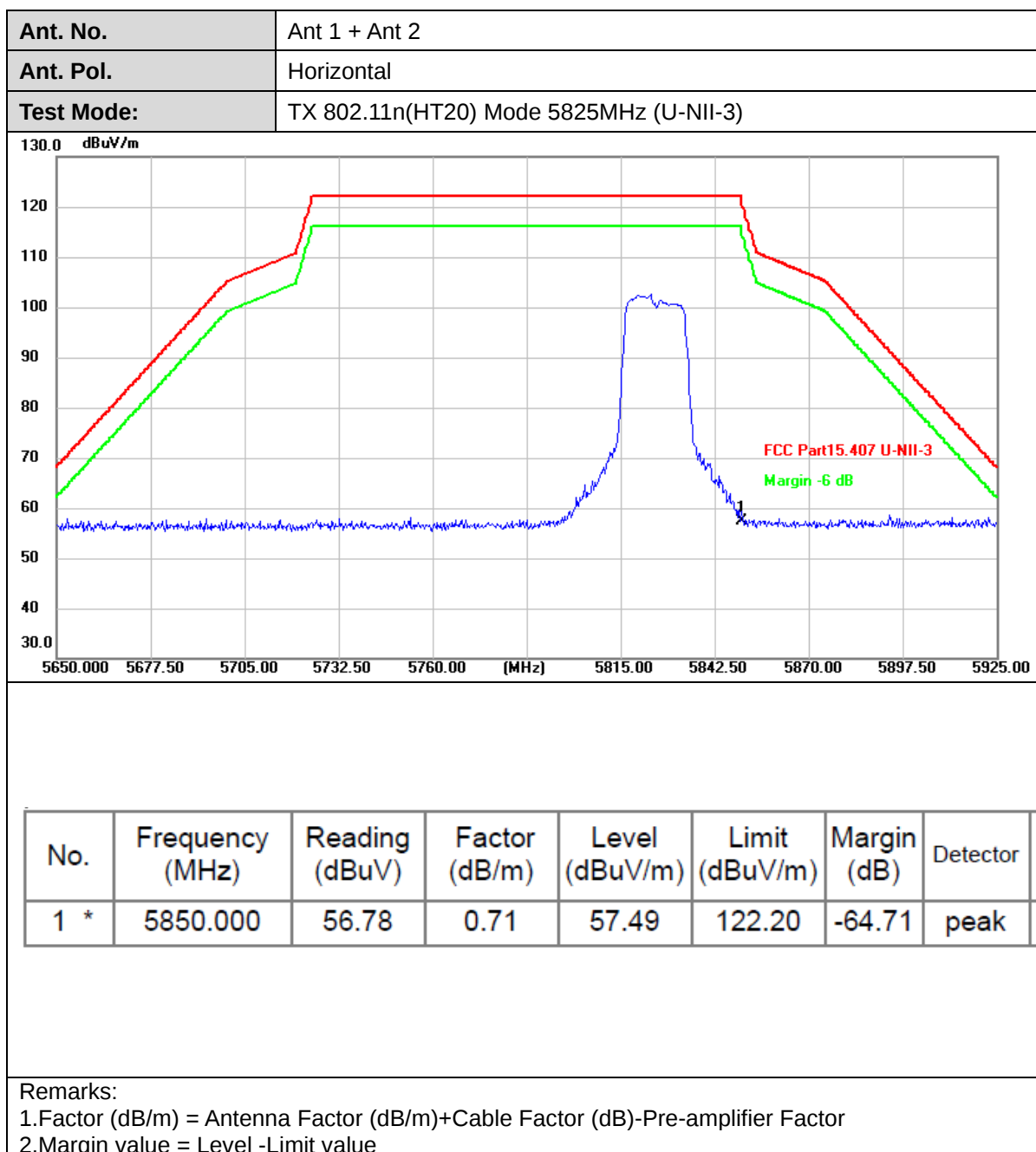






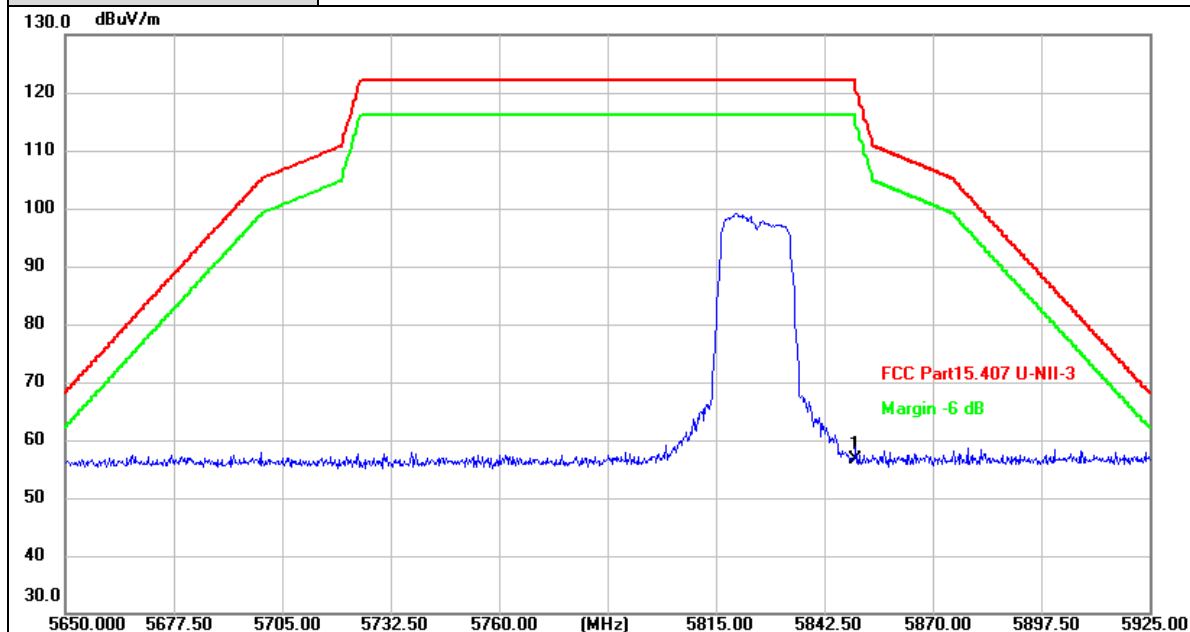








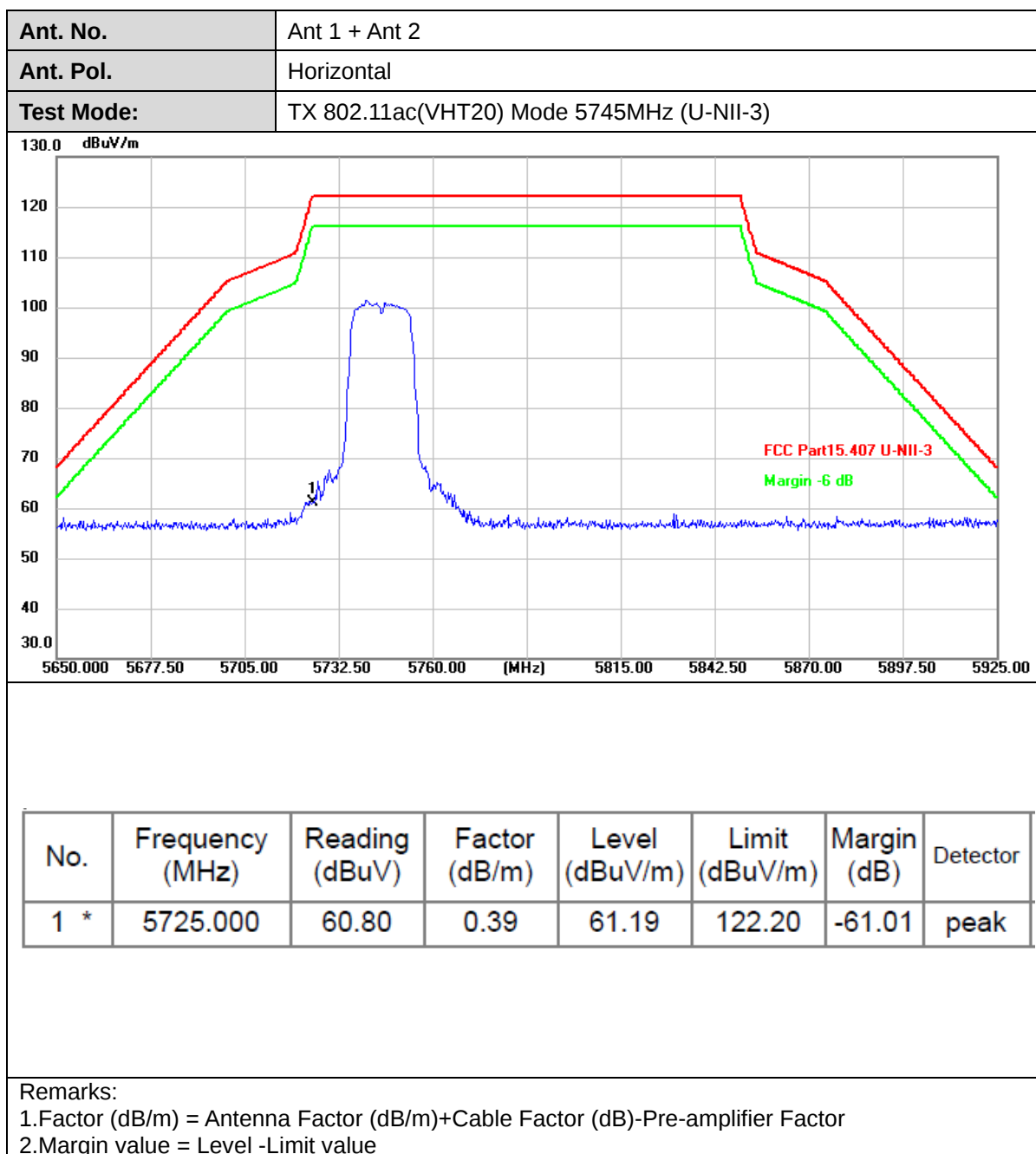
Ant. No.	Ant 1 + Ant 2
Ant. Pol.	Vertical
Test Mode:	TX 802.11n(HT20) Mode 5825MHz (U-NII-3)

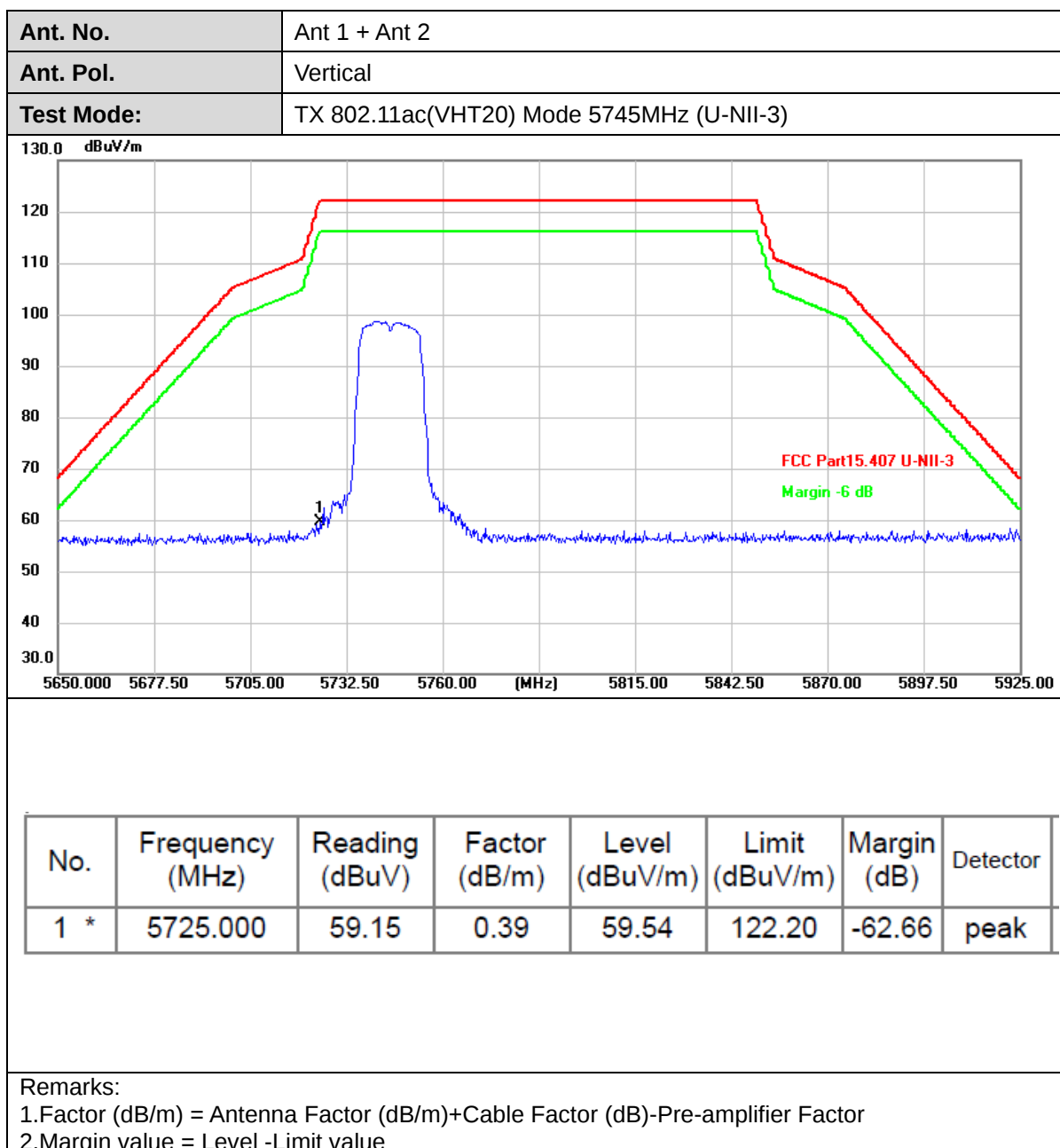


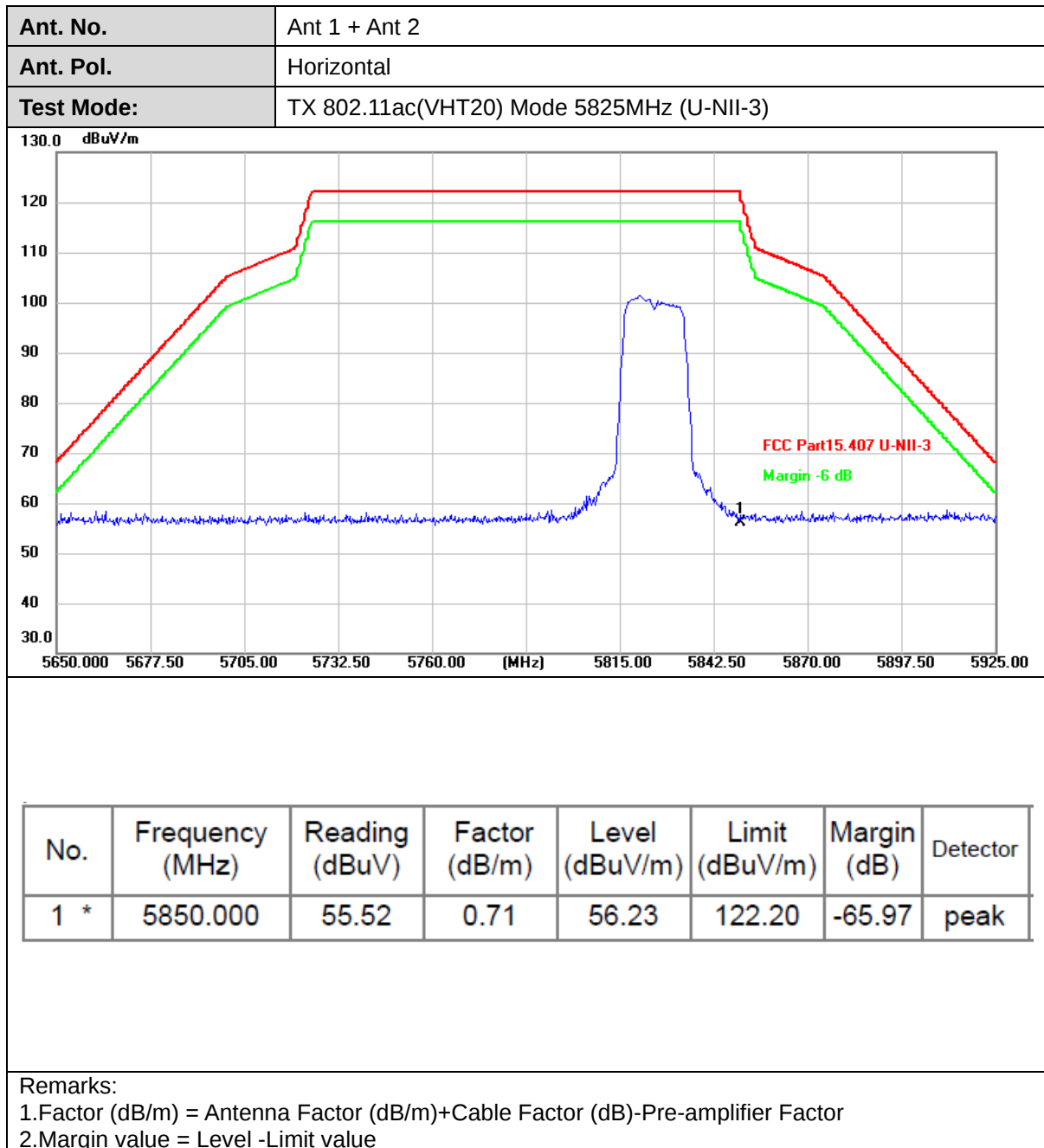
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	5850.000	55.88	0.71	56.59	122.20	-65.61	peak

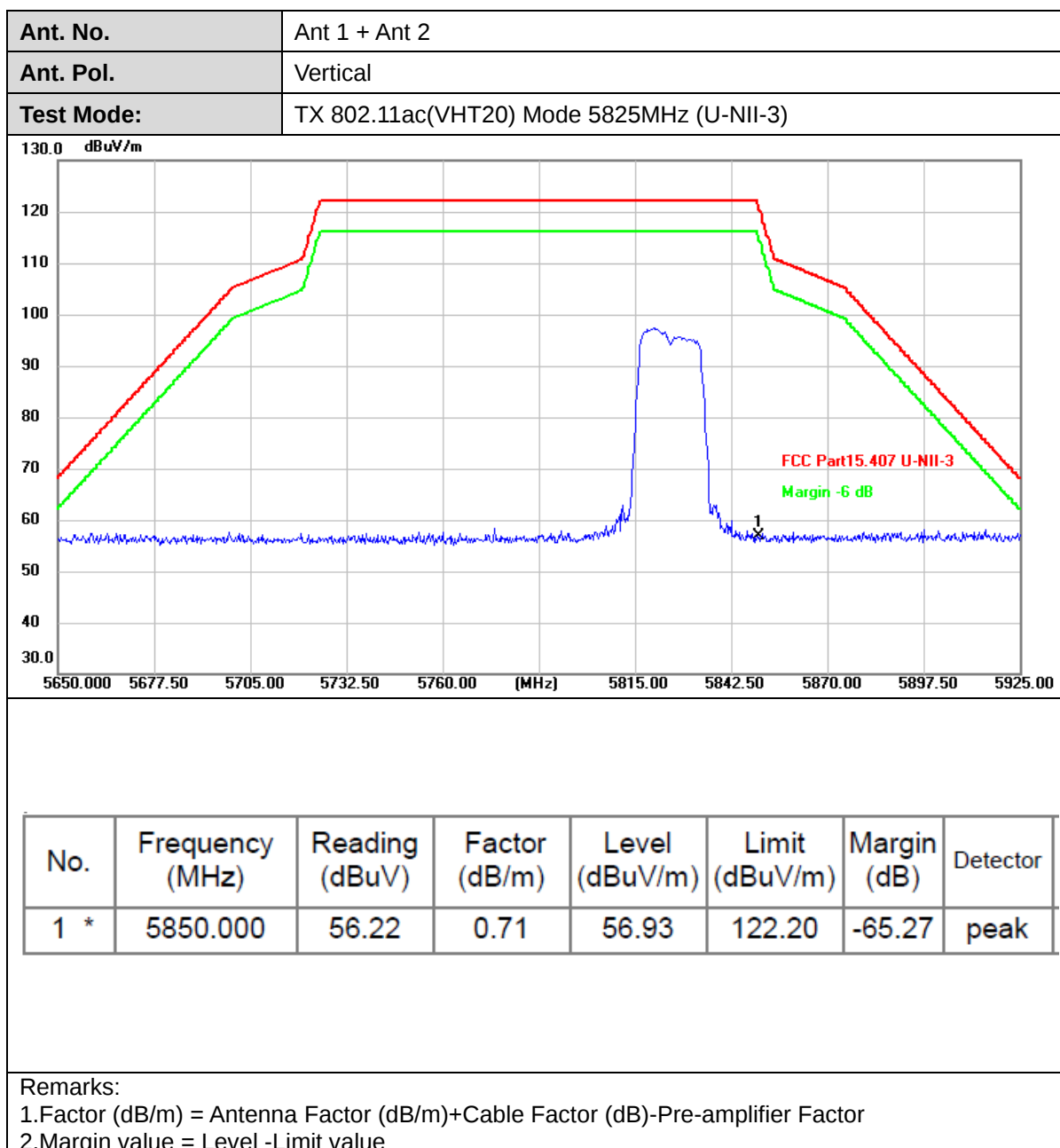
Remarks:

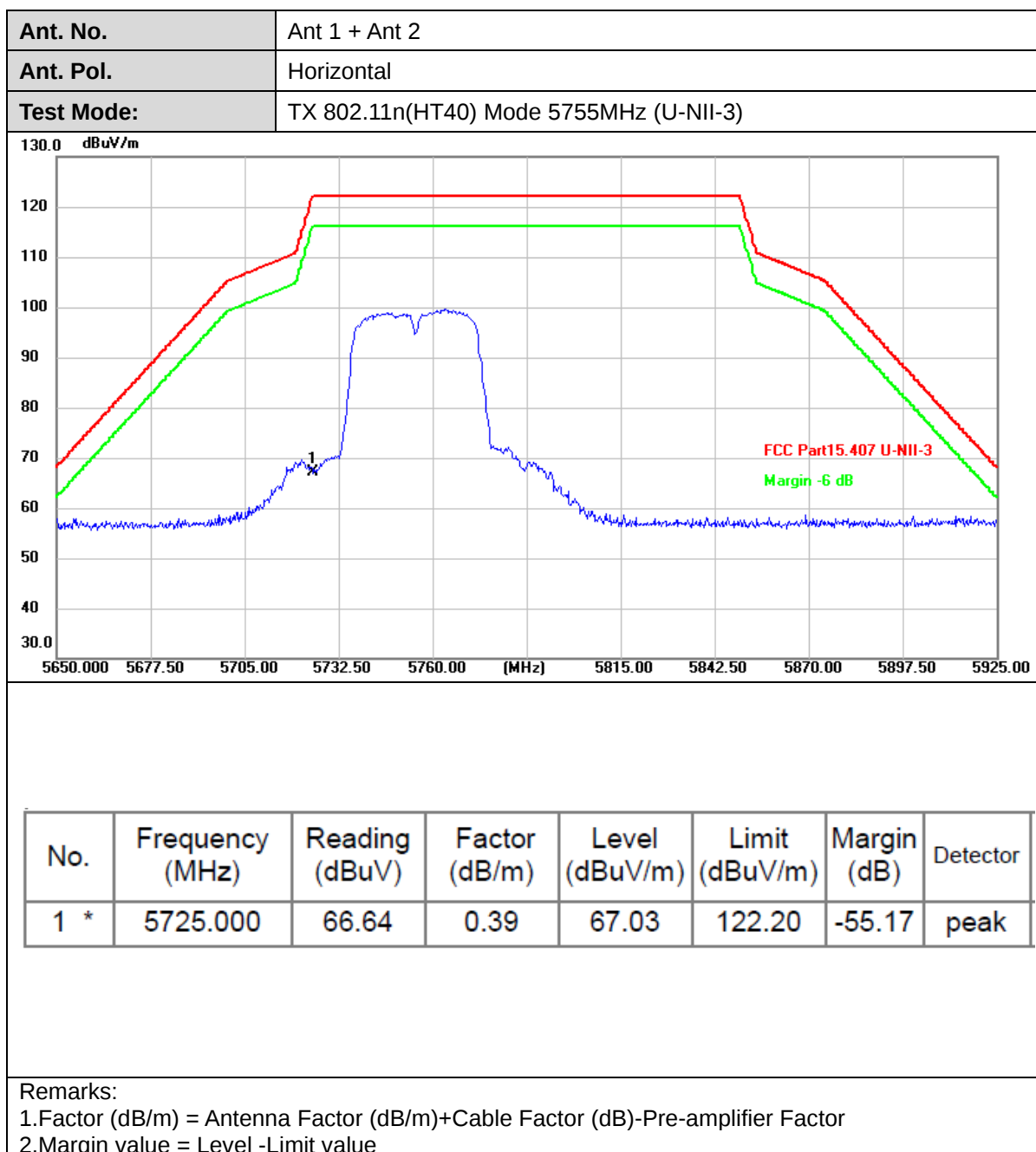
1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor
2. Margin value = Level - Limit value

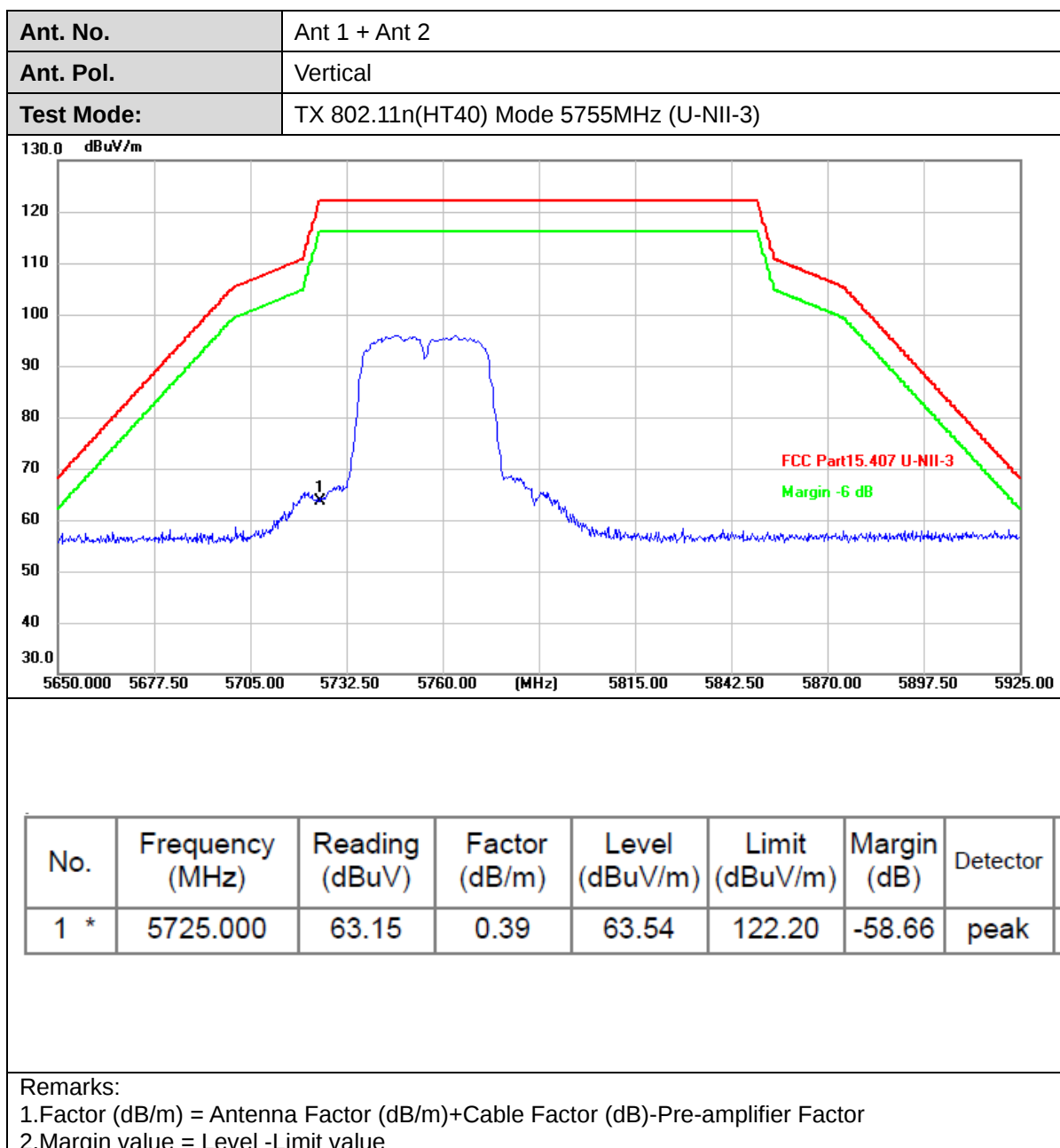


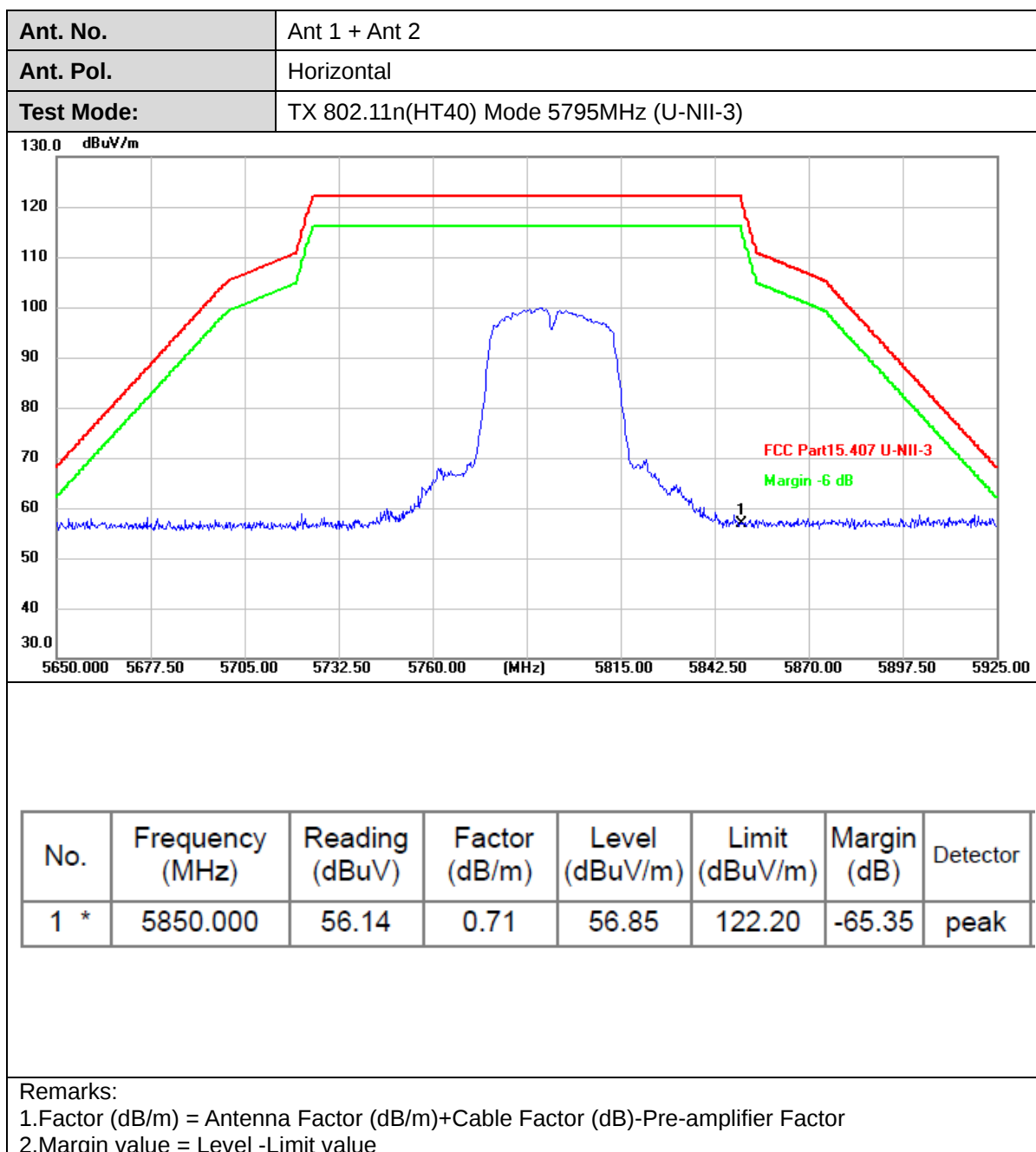


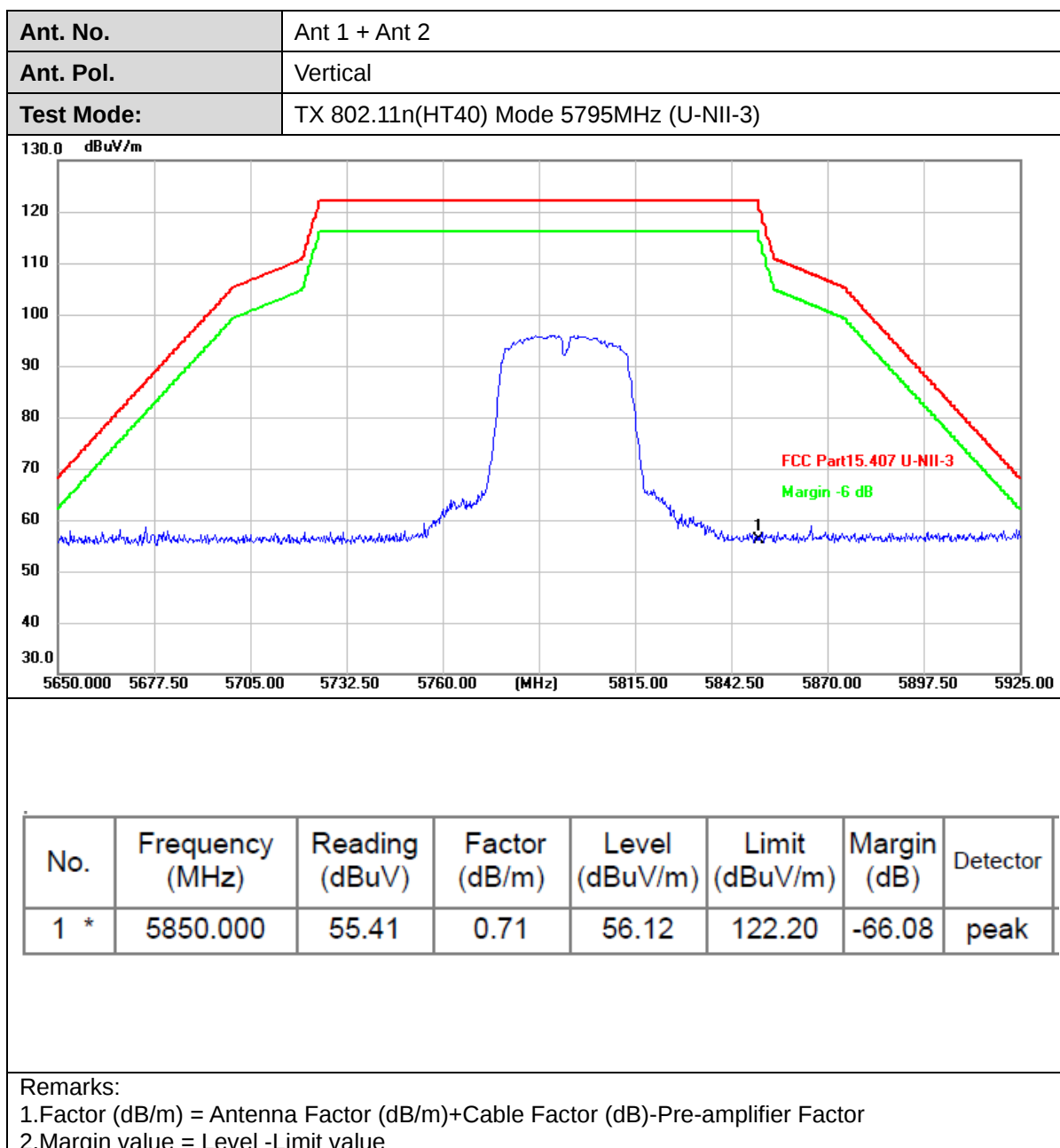


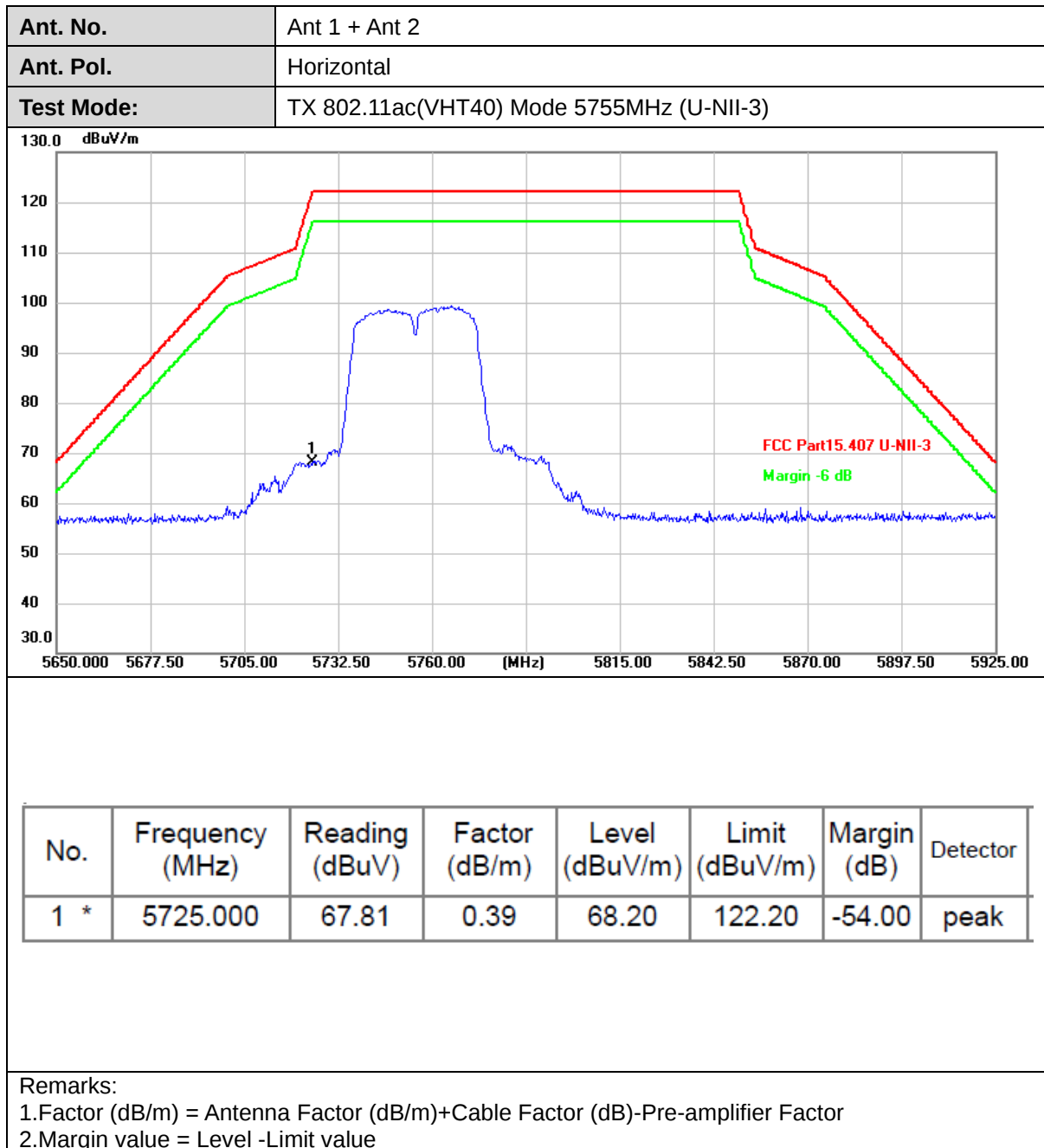


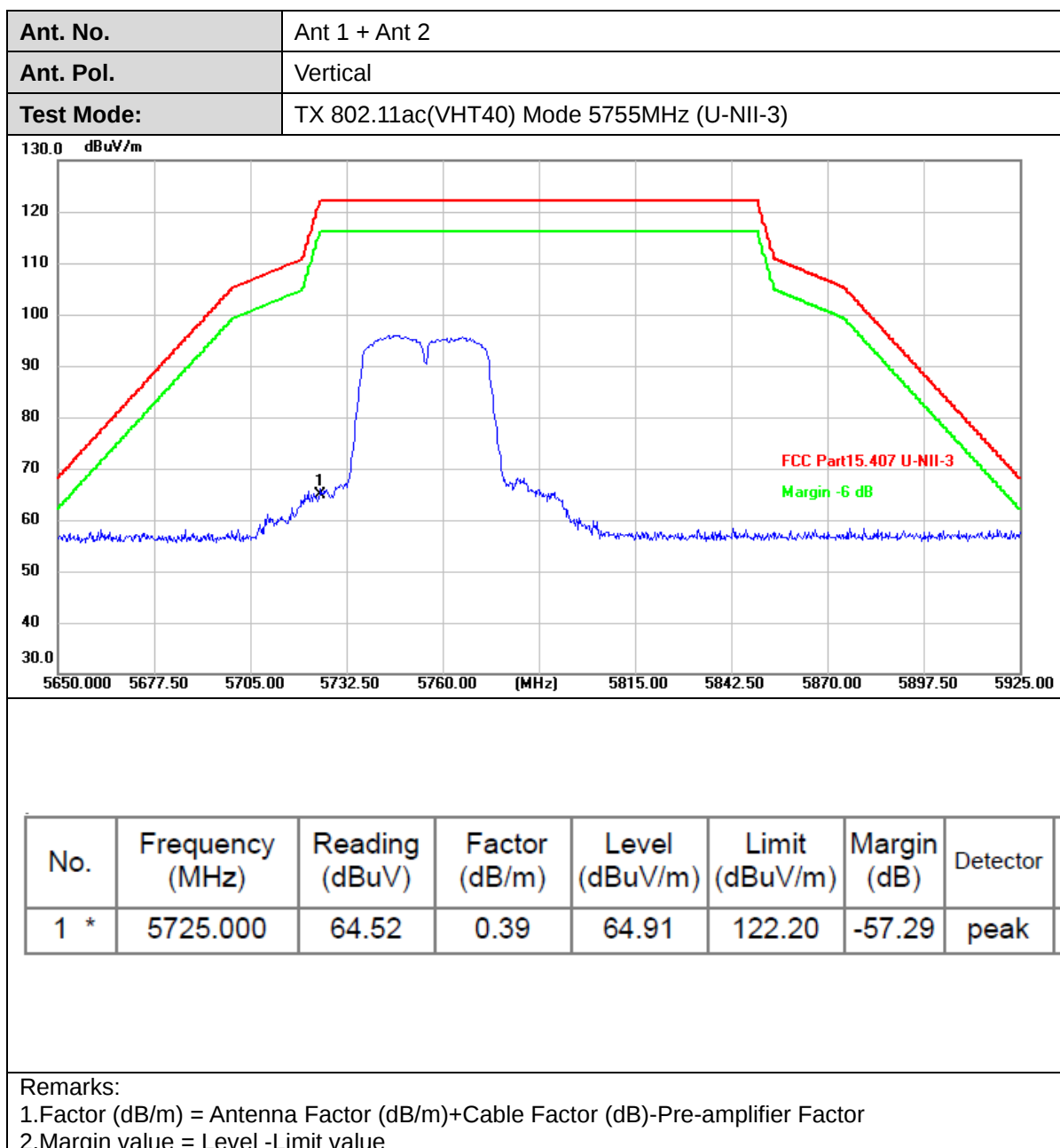


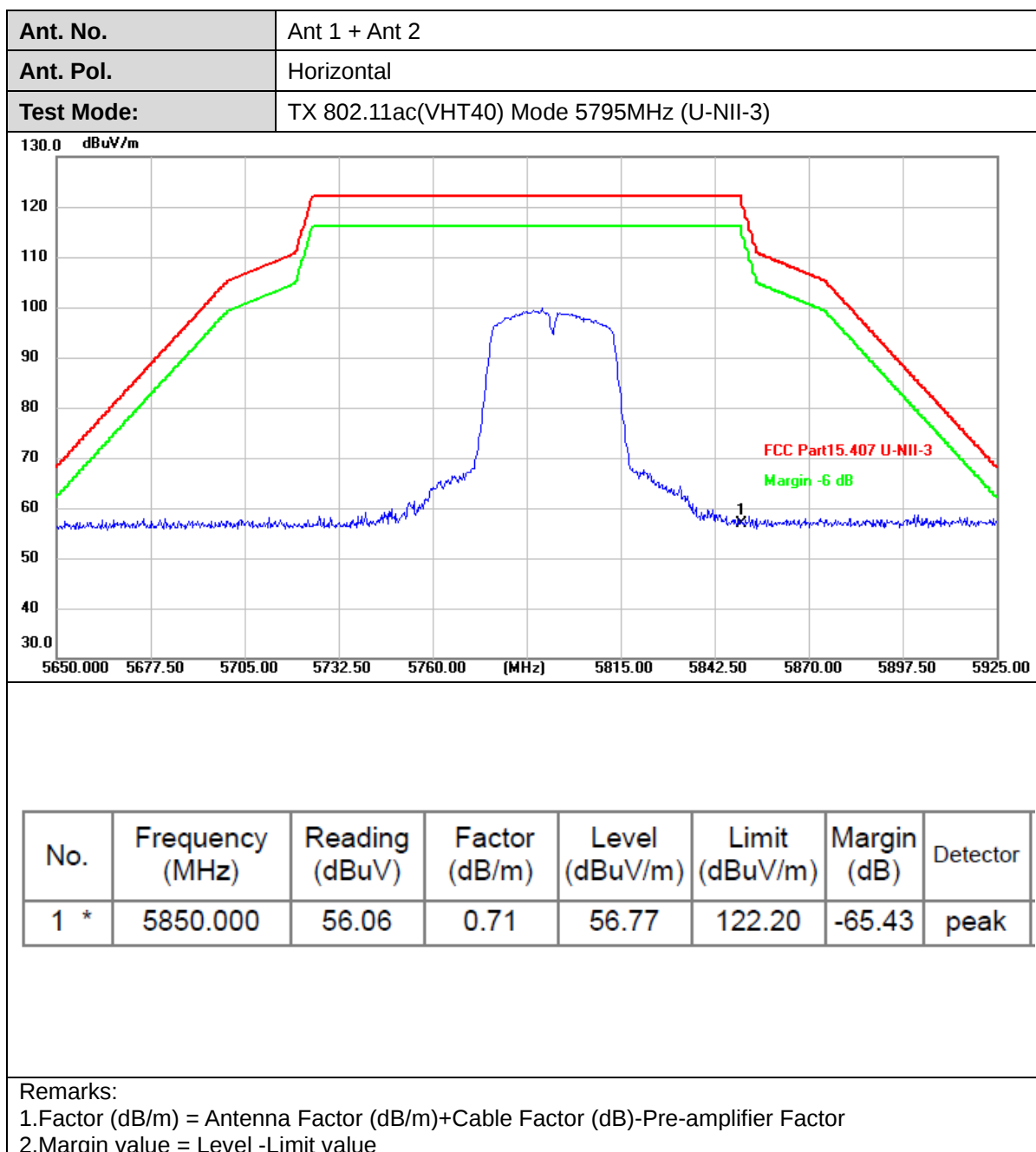


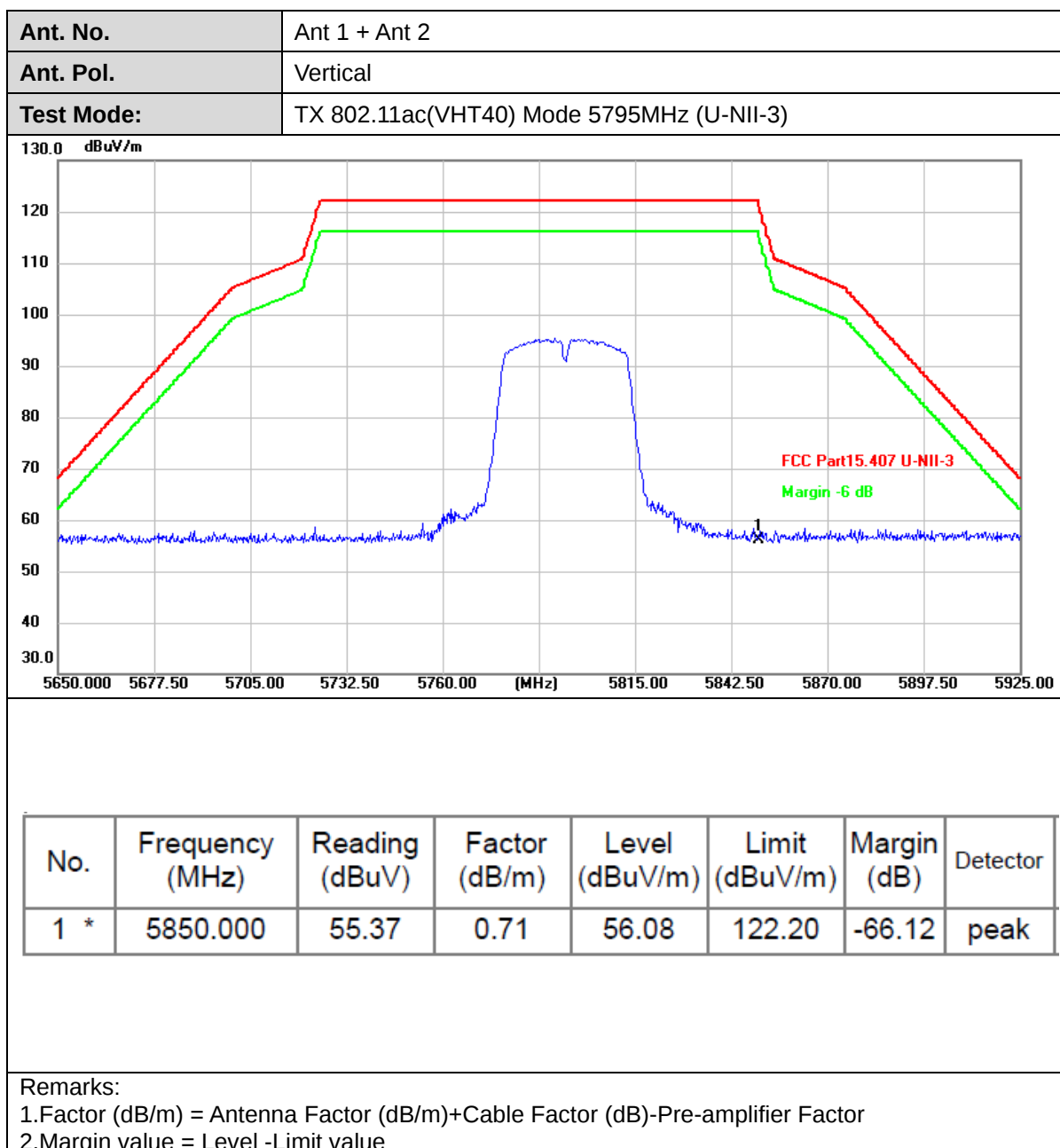


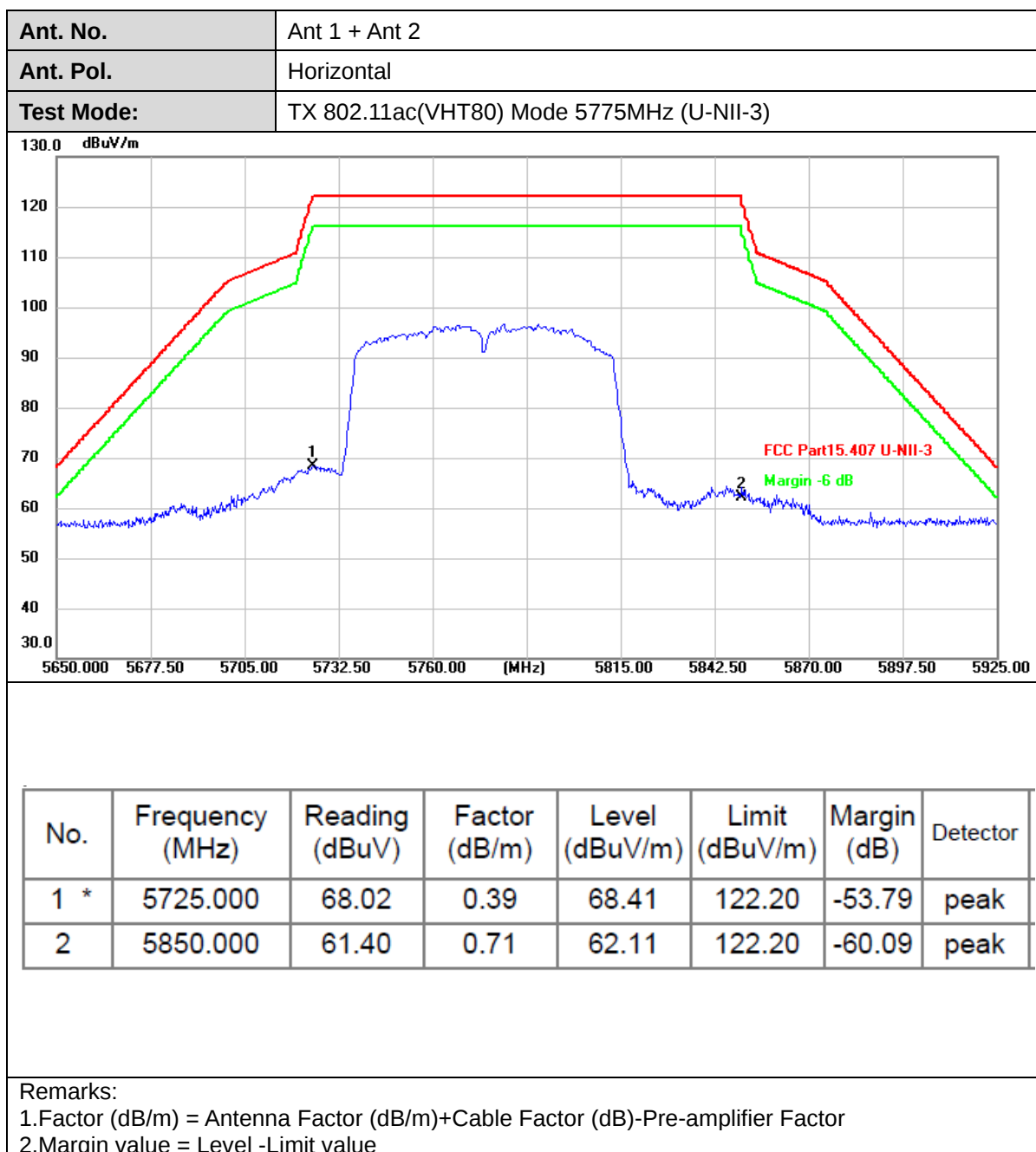


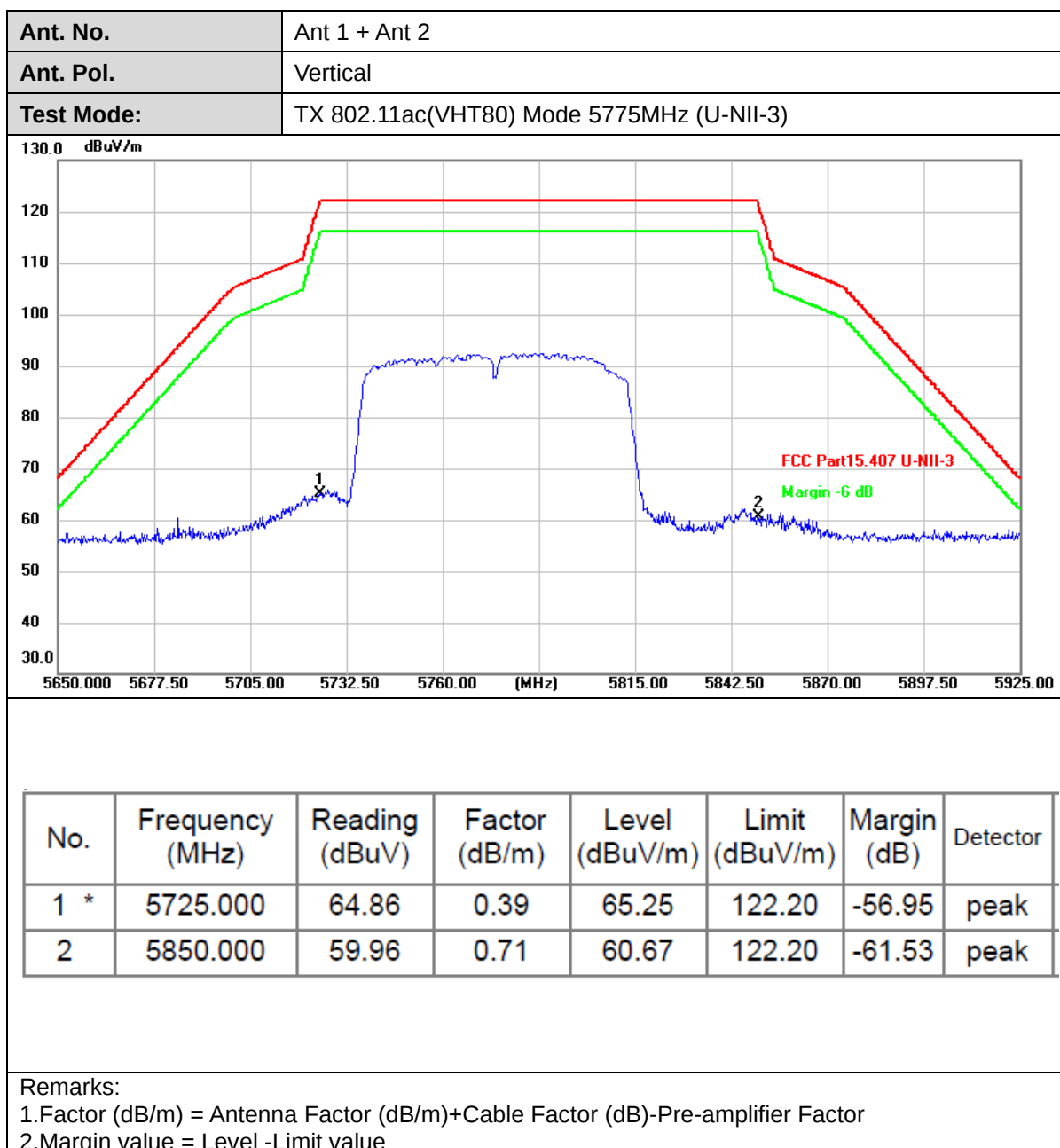














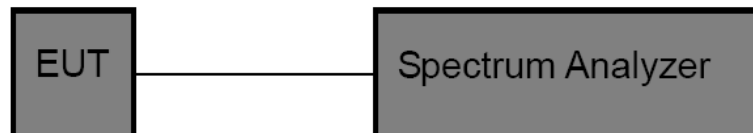
3.4. Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart E Section 15.407(a) & (e)

Test Item	Limit	Frequency Range (MHz)
26dB Bandwidth& 99% Bandwidth	N/A	5150~5250
		5250~5350
		5500~5700
6 dB Bandwidth	≥500 kHz	5725~5850

Test Configuration



Test Procedure

Please refer to KDB789033 D02 for the measurement methods.

The setting of the spectrum analyzer as below:

26dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>26 dB Bandwidth
RBW	Approximately 1% of the emission bandwidth
VBW	>RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto



6dB Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
Span	>6 dB Bandwidth
RBW	100 kHz
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold
Sweep Time	Auto
99% Occupied Bandwidth Test	
Spectrum Parameters	Setting
Attenuation	Auto
RBW	1% to 5% of the OBW
VBW	$\geq 3 \times \text{RBW}$
Detector	Peak
Trace	Max Hold

NOTE: The EUT was set to continuously transmitting in each mode and low, middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

**Test Result****26dB Bandwidth & 99% Occupied Bandwidth**

TestMode	Antenna	Channel	26db EBW [MHz]	OCB [MHz]	Verdict
11A	Ant1	5180	18.48	16.623	PASS
	Ant2	5180	18.48	16.583	PASS
	Ant1	5200	18.52	16.623	PASS
	Ant2	5200	18.52	16.543	PASS
	Ant1	5240	18.52	16.623	PASS
	Ant2	5240	18.68	16.703	PASS
	Ant1	5260	18.44	16.663	PASS
	Ant2	5260	18.44	16.583	PASS
	Ant1	5280	18.52	16.663	PASS
	Ant2	5280	18.52	16.583	PASS
	Ant1	5320	19.20	16.703	PASS
	Ant2	5320	18.52	16.543	PASS
	Ant1	5500	19.08	16.703	PASS
	Ant2	5500	18.36	16.543	PASS
	Ant1	5580	22.16	16.823	PASS
	Ant2	5580	18.36	16.623	PASS
	Ant1	5700	22.20	16.823	PASS
	Ant2	5700	18.56	16.703	PASS
	Ant1	5745	28.64	17.063	PASS
	Ant2	5745	29.60	17.263	PASS
	Ant1	5785	26.16	17.103	PASS
	Ant2	5785	33.84	18.142	PASS
	Ant1	5825	26.64	17.063	PASS
	Ant2	5825	33.08	19.341	PASS
11N20MIMO	Ant1	5180	19.32	17.702	PASS
	Ant2	5180	19.24	17.742	PASS
	Ant1	5200	19.44	17.782	PASS
	Ant2	5200	19.24	17.662	PASS
	Ant1	5240	19.36	17.622	PASS
	Ant2	5240	19.40	17.702	PASS
	Ant1	5260	19.28	17.662	PASS
	Ant2	5260	19.36	17.662	PASS
	Ant1	5280	19.52	17.622	PASS
	Ant2	5280	19.56	17.622	PASS
	Ant1	5320	19.36	17.702	PASS
	Ant2	5320	19.28	17.782	PASS
	Ant1	5500	19.24	17.702	PASS
	Ant2	5500	19.32	17.662	PASS
	Ant1	5580	19.36	17.742	PASS
	Ant2	5580	19.36	17.742	PASS
	Ant1	5700	19.32	17.702	PASS
	Ant2	5700	19.32	17.702	PASS
	Ant1	5745	19.24	17.702	PASS
	Ant2	5745	19.40	17.702	PASS
	Ant1	5785	19.40	17.782	PASS
	Ant2	5785	19.32	17.782	PASS
	Ant1	5825	19.80	17.822	PASS
	Ant2	5825	19.28	17.702	PASS
11N40MIMO	Ant1	5190	40.80	36.124	PASS
	Ant2	5190	41.28	36.444	PASS
	Ant1	5230	41.36	36.044	PASS
	Ant2	5230	40.48	36.523	PASS
	Ant1	5270	41.44	36.284	PASS
	Ant2	5270	40.80	35.964	PASS
	Ant1	5310	40.88	36.364	PASS
	Ant2	5310	40.96	36.284	PASS
	Ant1	5510	40.40	36.044	PASS
	Ant2	5510	41.36	36.044	PASS
	Ant1	5550	40.64	36.763	PASS
	Ant2	5550	41.12	36.124	PASS

CTC Laboratories, Inc.

2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>



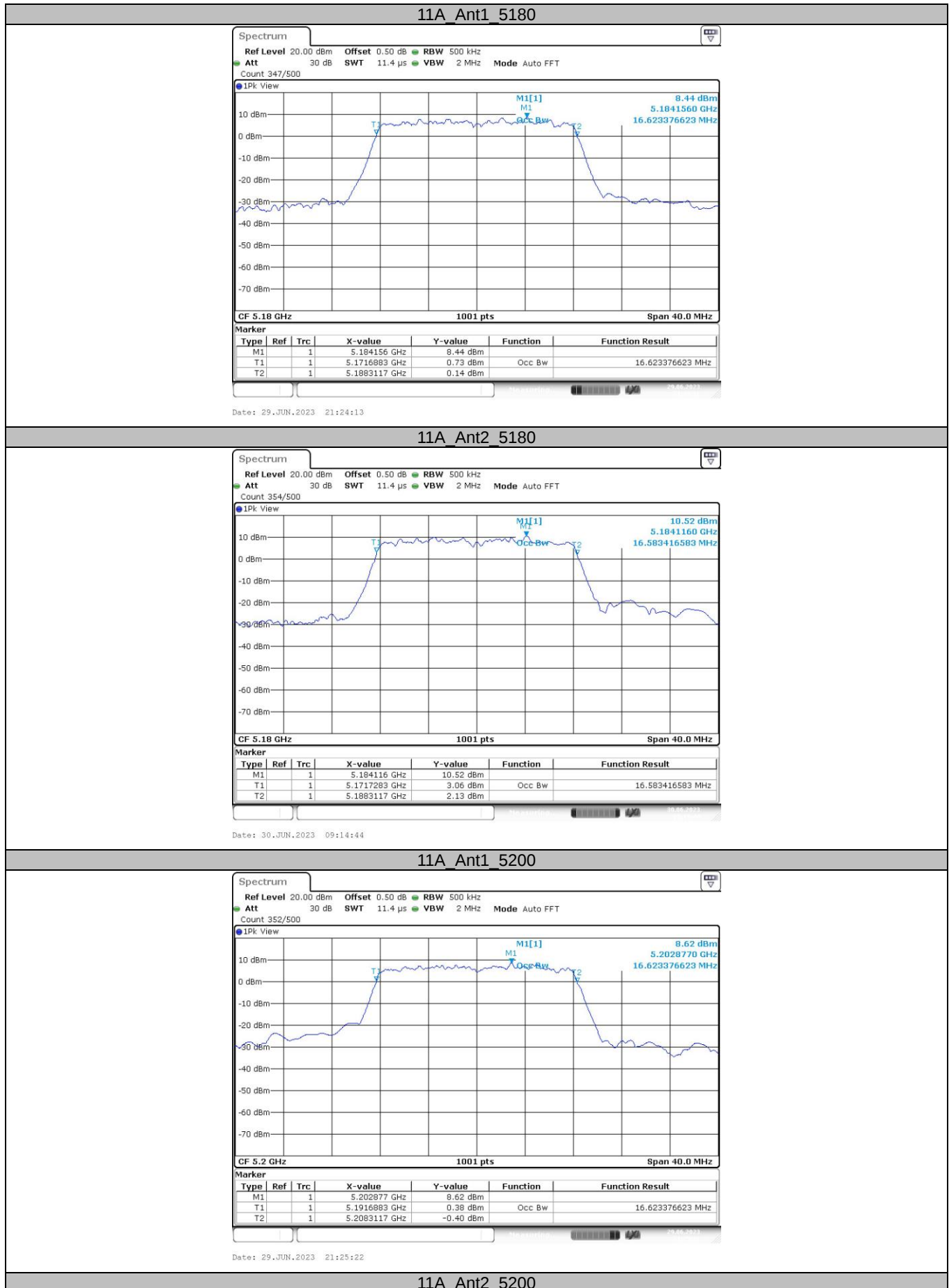
	Ant1	5670	40.96	36.364	PASS
	Ant2	5670	41.68	36.204	PASS
	Ant1	5755	42.00	36.124	PASS
	Ant2	5755	40.88	36.124	PASS
	Ant1	5795	41.76	36.603	PASS
	Ant2	5795	41.76	36.124	PASS
11AC20MIMO	Ant1	5180	19.40	17.702	PASS
	Ant2	5180	19.32	17.702	PASS
	Ant1	5200	19.32	17.662	PASS
	Ant2	5200	19.24	17.662	PASS
	Ant1	5240	19.36	17.662	PASS
	Ant2	5240	19.16	17.662	PASS
	Ant1	5260	19.24	17.662	PASS
	Ant2	5260	19.32	17.742	PASS
	Ant1	5280	19.28	17.702	PASS
	Ant2	5280	19.32	17.702	PASS
	Ant1	5320	19.24	17.622	PASS
	Ant2	5320	19.64	17.662	PASS
	Ant1	5500	19.36	17.662	PASS
	Ant2	5500	19.40	17.702	PASS
	Ant1	5580	19.52	17.702	PASS
	Ant2	5580	19.36	17.742	PASS
	Ant1	5700	19.28	17.662	PASS
	Ant2	5700	19.44	17.702	PASS
	Ant1	5745	19.36	17.662	PASS
	Ant2	5745	19.44	17.742	PASS
	Ant1	5785	19.28	17.702	PASS
	Ant2	5785	19.36	17.742	PASS
	Ant1	5825	19.48	17.702	PASS
	Ant2	5825	19.32	17.742	PASS
11AC40MIMO	Ant1	5190	40.64	36.124	PASS
	Ant2	5190	40.24	36.284	PASS
	Ant1	5230	40.40	36.523	PASS
	Ant2	5230	40.64	36.204	PASS
	Ant1	5270	40.48	36.284	PASS
	Ant2	5270	41.04	36.284	PASS
	Ant1	5310	41.44	36.204	PASS
	Ant2	5310	41.28	36.523	PASS
	Ant1	5510	41.28	36.444	PASS
	Ant2	5510	41.12	36.683	PASS
	Ant1	5550	41.28	36.204	PASS
	Ant2	5550	41.28	36.204	PASS
	Ant1	5670	40.88	36.204	PASS
	Ant2	5670	41.92	36.044	PASS
	Ant1	5755	40.48	36.364	PASS
	Ant2	5755	40.72	36.523	PASS
	Ant1	5795	40.40	36.204	PASS
	Ant2	5795	40.48	36.124	PASS
11AC80MIMO	Ant1	5210	80.16	74.805	PASS
	Ant2	5210	80.32	75.125	PASS
	Ant1	5290	79.68	75.125	PASS
	Ant2	5290	80.00	74.645	PASS
	Ant1	5530	79.52	75.125	PASS
	Ant2	5530	80.00	75.445	PASS
	Ant1	5610	79.36	74.645	PASS
	Ant2	5610	80.00	74.805	PASS
	Ant1	5775	79.68	74.805	PASS
	Ant2	5775	80.96	75.125	PASS

**6dB Bandwidth**

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.36	5736.80	5753.16	0.5	PASS
	Ant2	5745	16.36	5736.80	5753.16	0.5	PASS
	Ant1	5785	16.36	5776.80	5793.16	0.5	PASS
	Ant2	5785	16.36	5776.80	5793.16	0.5	PASS
	Ant1	5825	16.40	5816.80	5833.20	0.5	PASS
	Ant2	5825	16.28	5816.84	5833.12	0.5	PASS
11N20MIMO	Ant1	5745	17.56	5736.24	5753.80	0.5	PASS
	Ant2	5745	17.56	5736.24	5753.80	0.5	PASS
	Ant1	5785	17.52	5776.24	5793.76	0.5	PASS
	Ant2	5785	17.56	5776.24	5793.80	0.5	PASS
	Ant1	5825	17.52	5816.24	5833.76	0.5	PASS
	Ant2	5825	17.60	5816.20	5833.80	0.5	PASS
11N40MIMO	Ant1	5755	30.72	5740.60	5771.32	0.5	PASS
	Ant2	5755	35.12	5737.48	5772.60	0.5	PASS
	Ant1	5795	35.44	5777.40	5812.84	0.5	PASS
	Ant2	5795	35.04	5777.48	5812.52	0.5	PASS
11AC20MIMO	Ant1	5745	17.56	5736.20	5753.76	0.5	PASS
	Ant2	5745	17.56	5736.20	5753.76	0.5	PASS
	Ant1	5785	17.56	5776.20	5793.76	0.5	PASS
	Ant2	5785	16.88	5776.60	5793.48	0.5	PASS
	Ant1	5825	17.64	5816.16	5833.80	0.5	PASS
	Ant2	5825	17.56	5816.20	5833.76	0.5	PASS
11AC40MIMO	Ant1	5755	35.12	5737.48	5772.60	0.5	PASS
	Ant2	5755	32.72	5739.88	5772.60	0.5	PASS
	Ant1	5795	35.20	5777.40	5812.60	0.5	PASS
	Ant2	5795	35.04	5777.48	5812.52	0.5	PASS
11AC80MIMO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS
	Ant2	5775	72.64	5739.96	5812.60	0.5	PASS



99% Bandwidth:



CTC Laboratories, Inc.

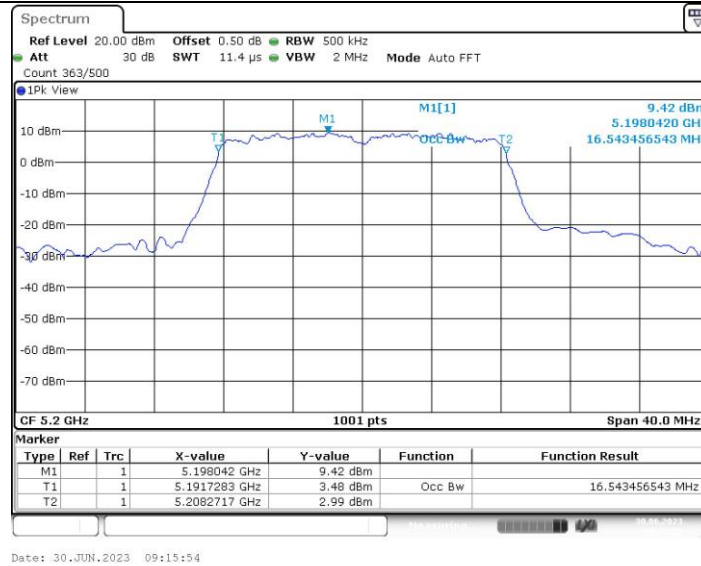
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

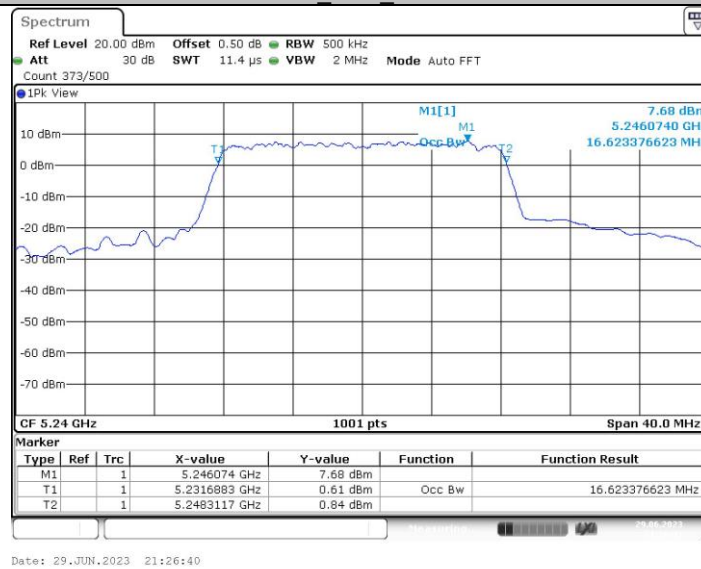
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

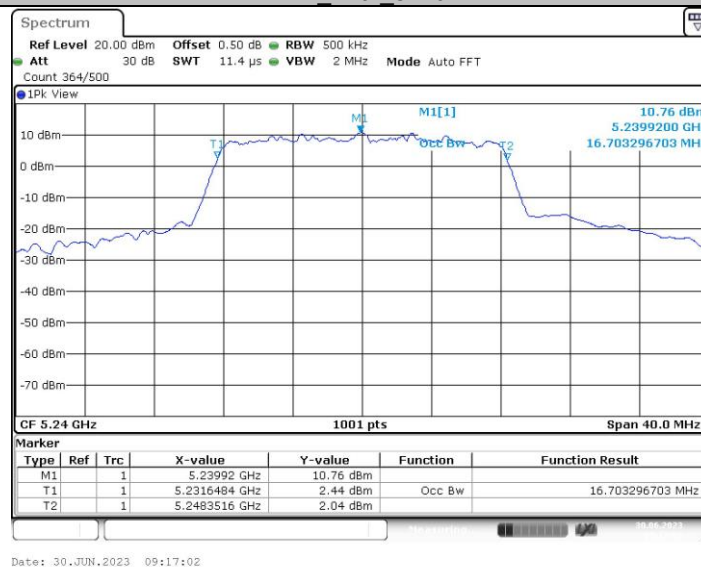
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>



11A Ant1 5240



11A Ant2 5240



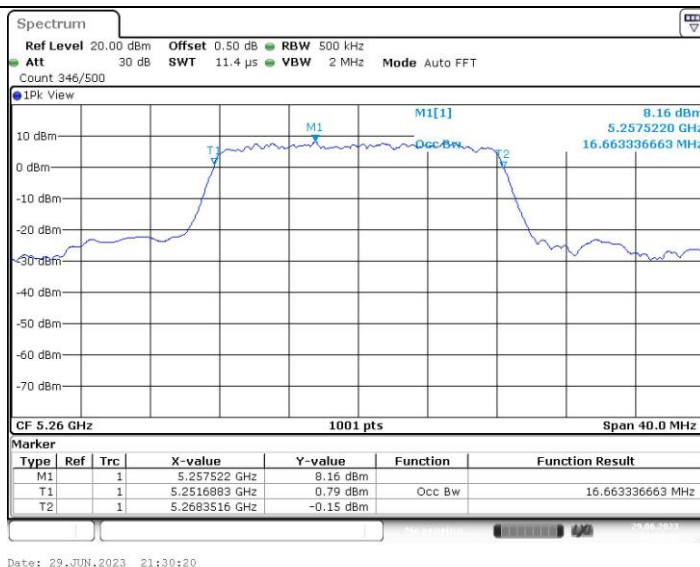
11A Ant1 5260

CTC Laboratories, Inc.

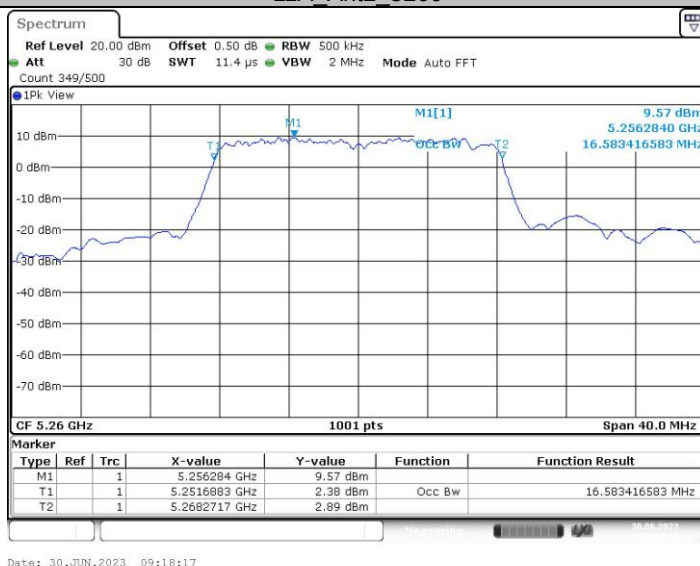
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>



11A_Ant2_5260



11A_Ant1_5280



11A_Ant2_5280

CTC Laboratories, Inc.

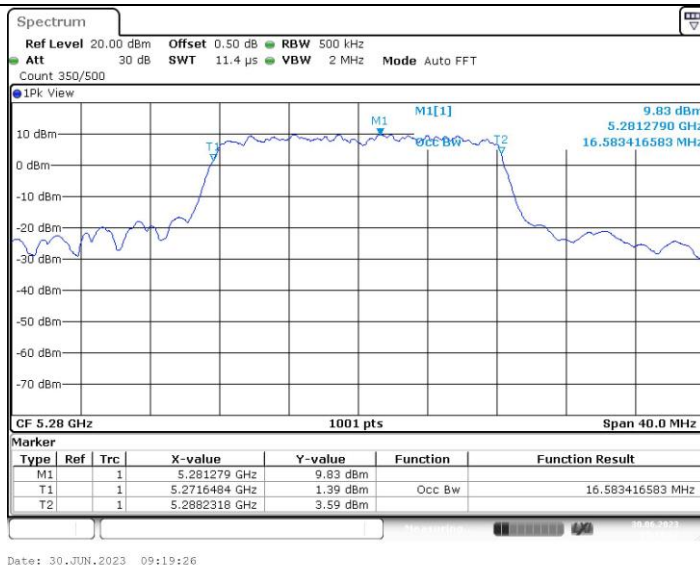
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

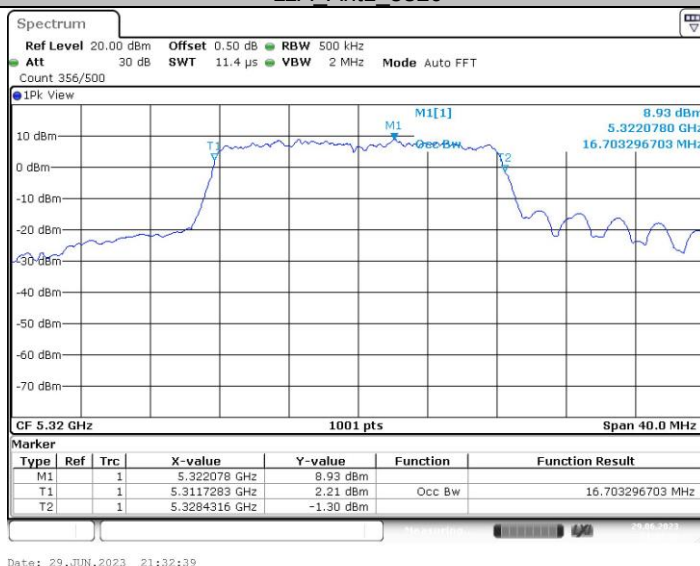
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>



11A Ant1 5320



11A Ant2 5320



11A Ant1 5500

CTC Laboratories, Inc.

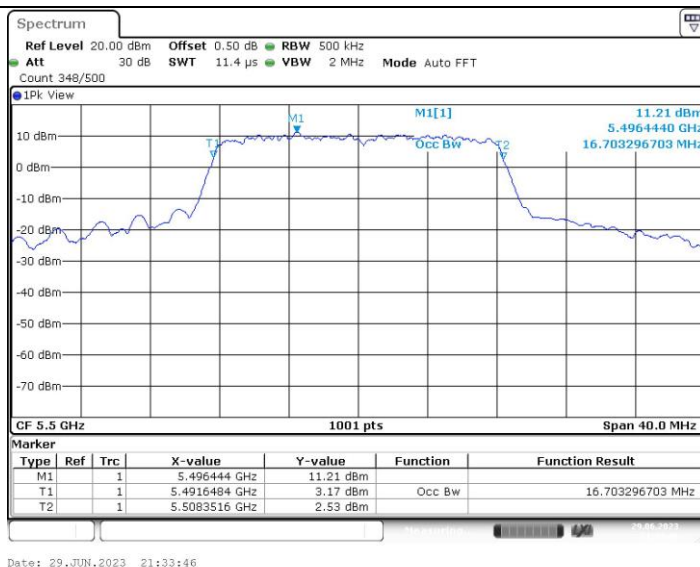
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

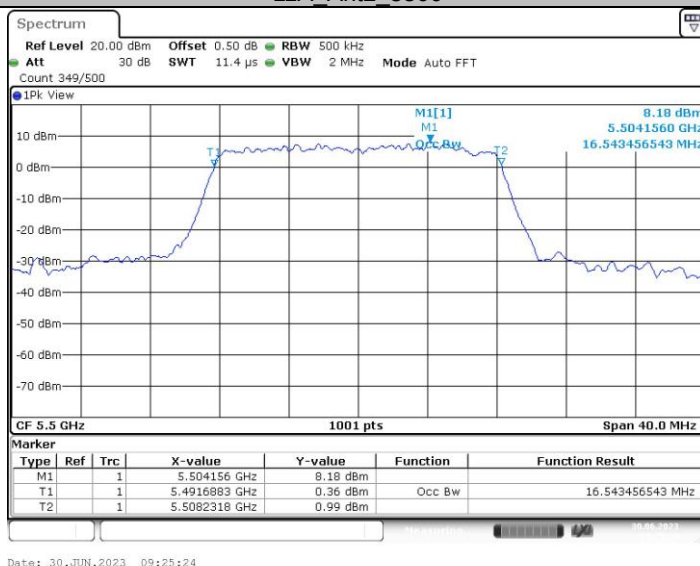
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

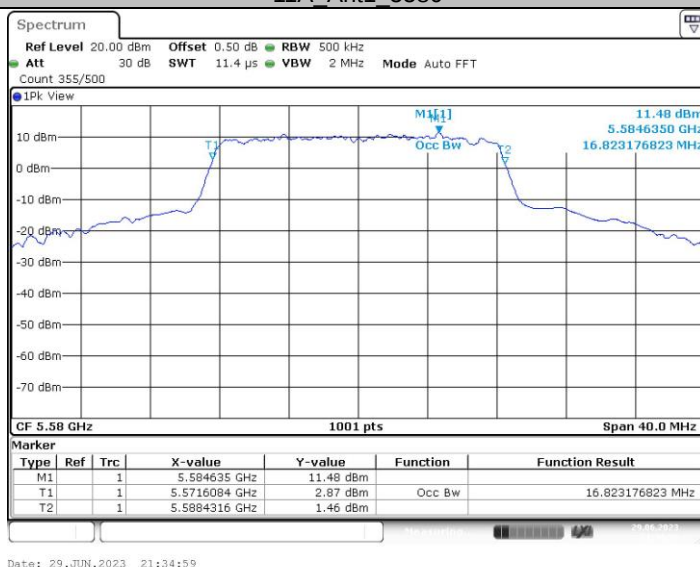
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>



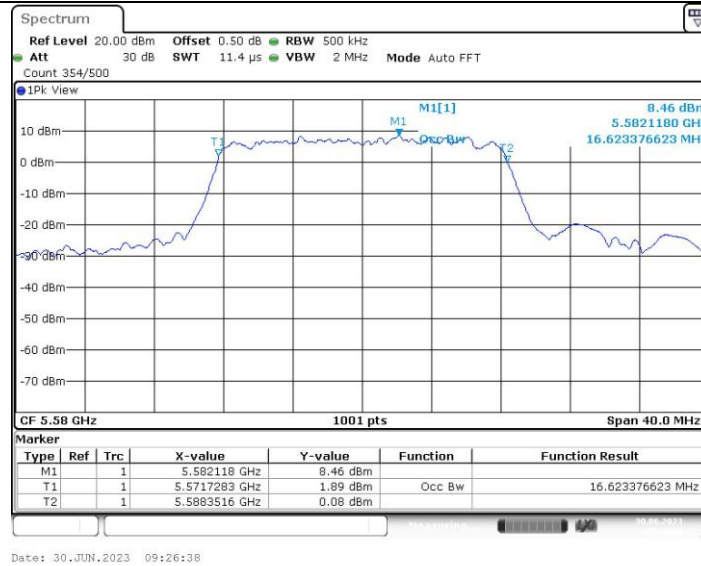
11A_Ant2_5500



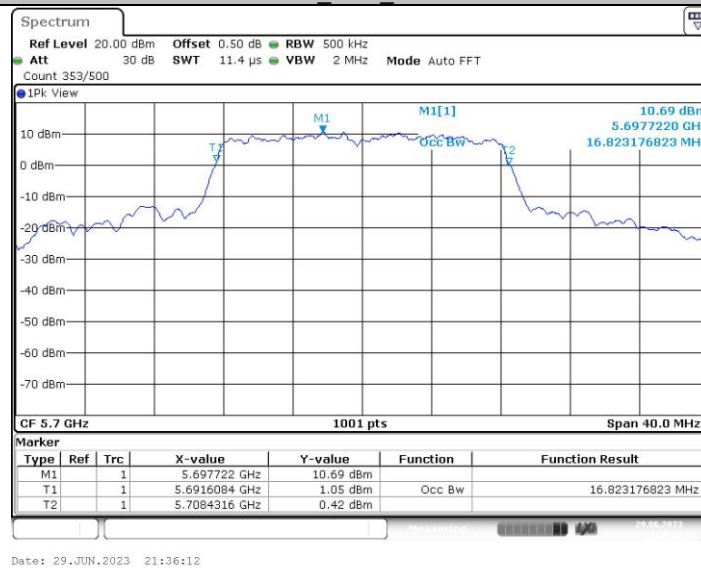
11A_Ant1_5580



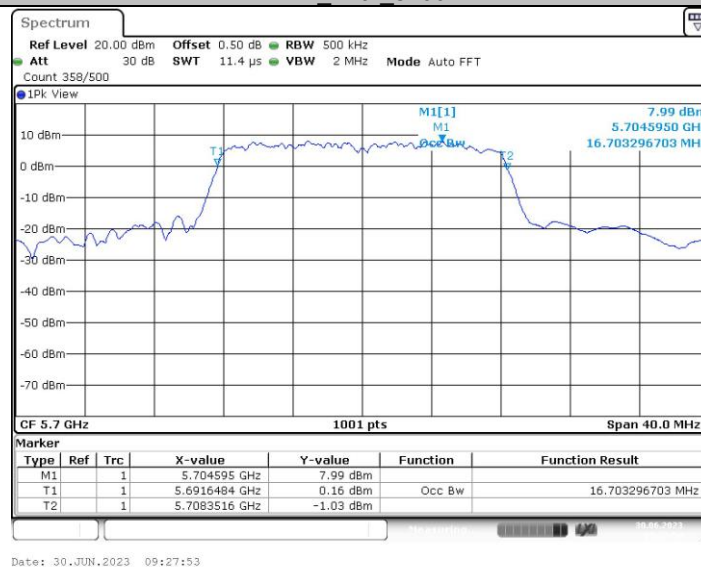
11A_Ant2_5580



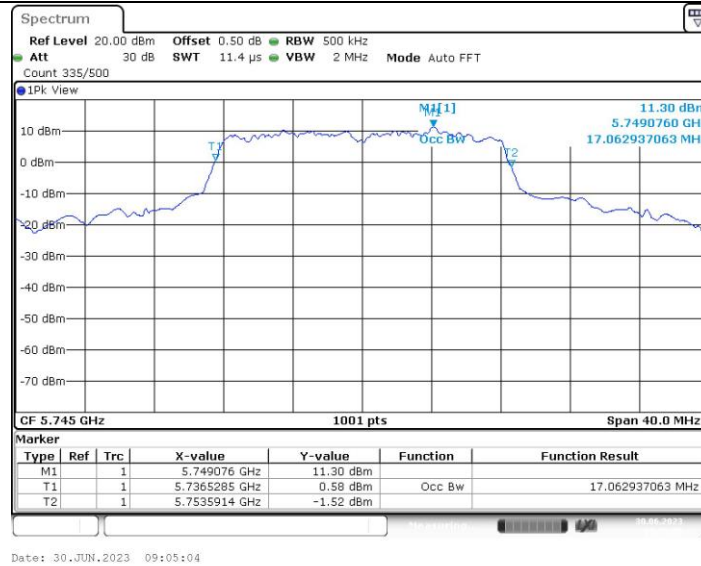
11A Ant1 5700



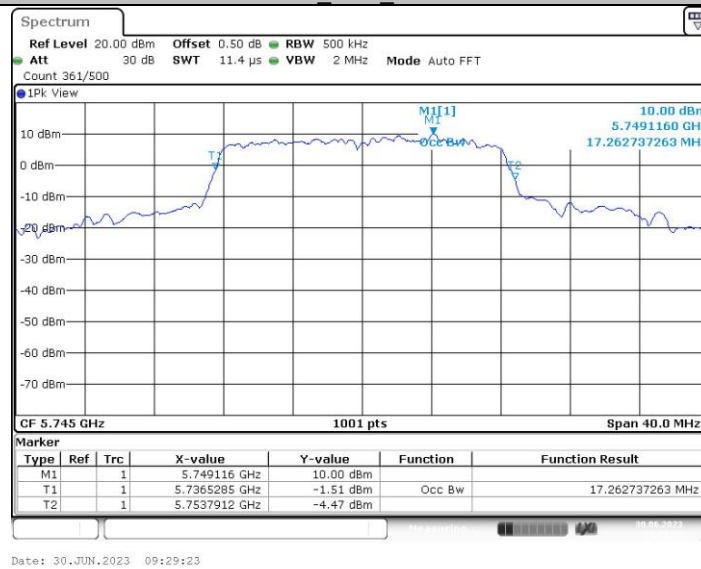
11A Ant2 5700



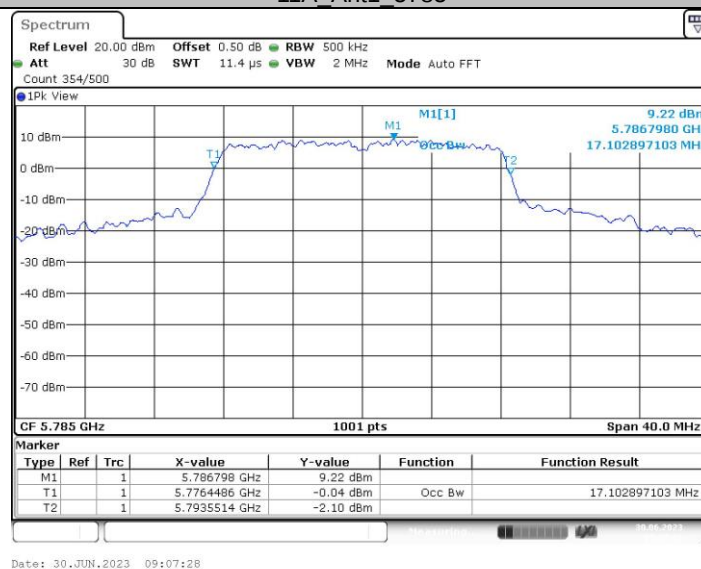
11A Ant1 5745



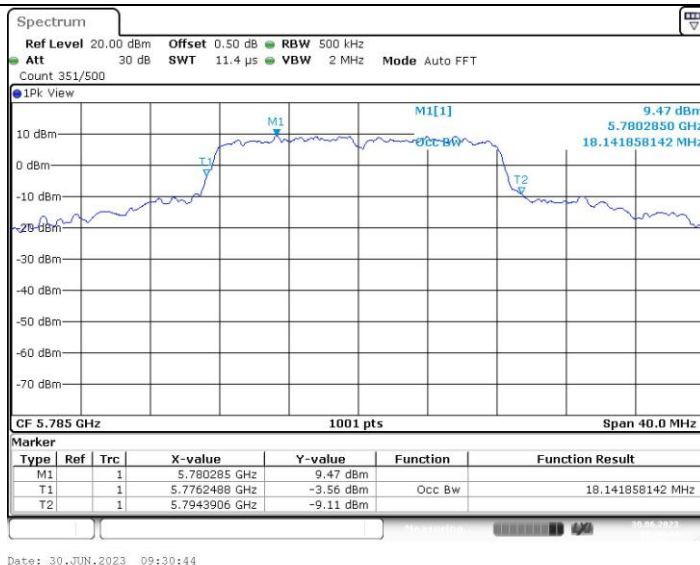
11A_Ant2_5745



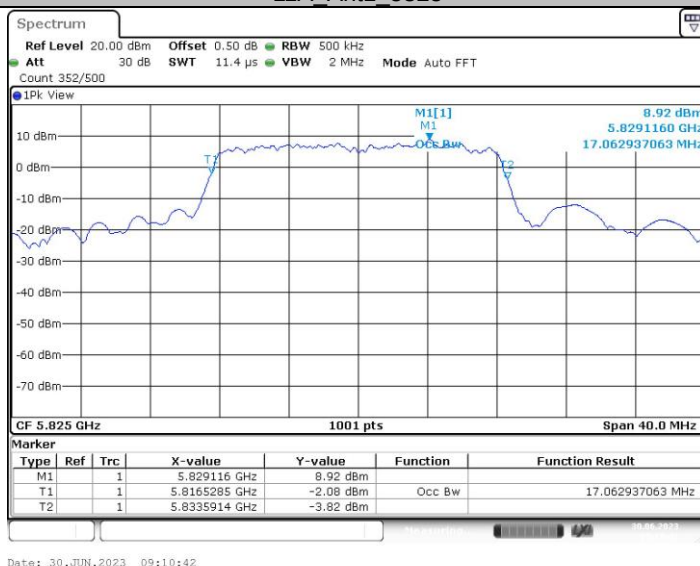
11A_Ant1_5785



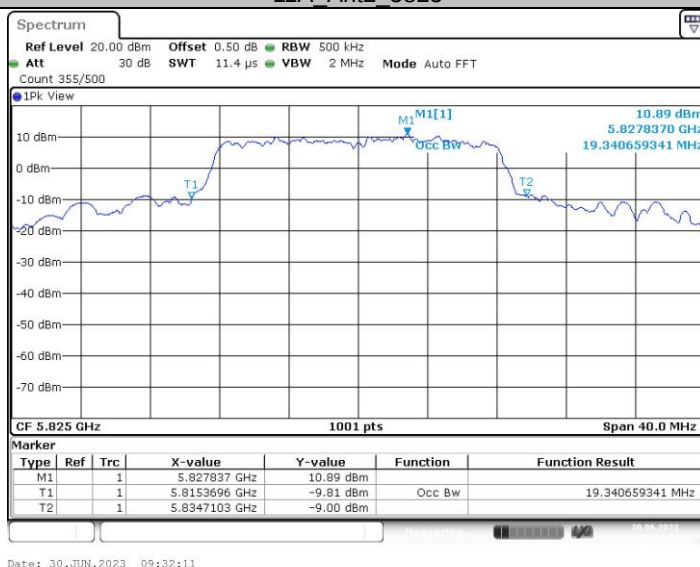
11A_Ant2_5785



11A Ant1 5825



11A Ant2 5825



11N20MIMO Ant1 5180

CTC Laboratories, Inc.

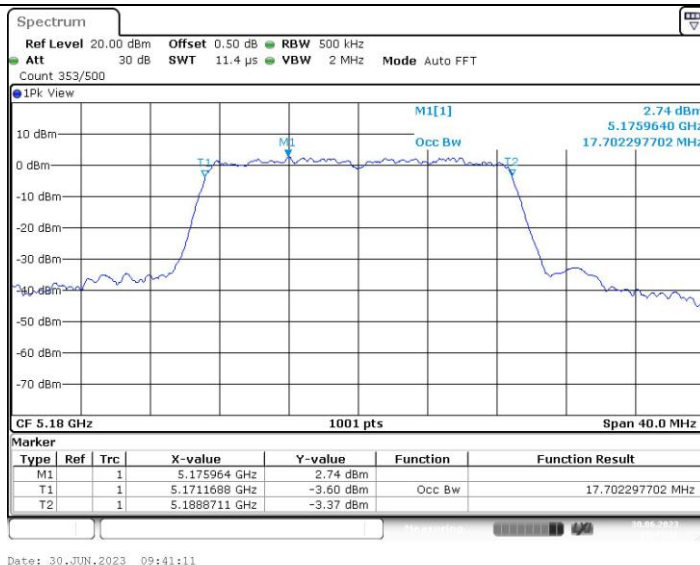
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

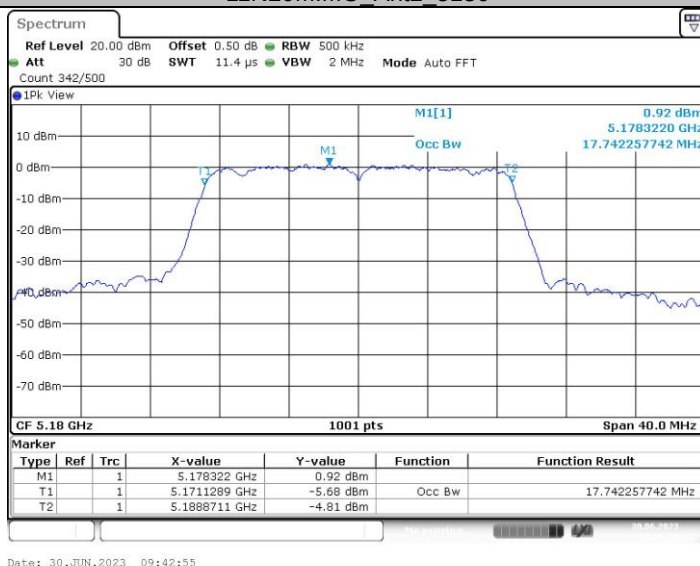
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

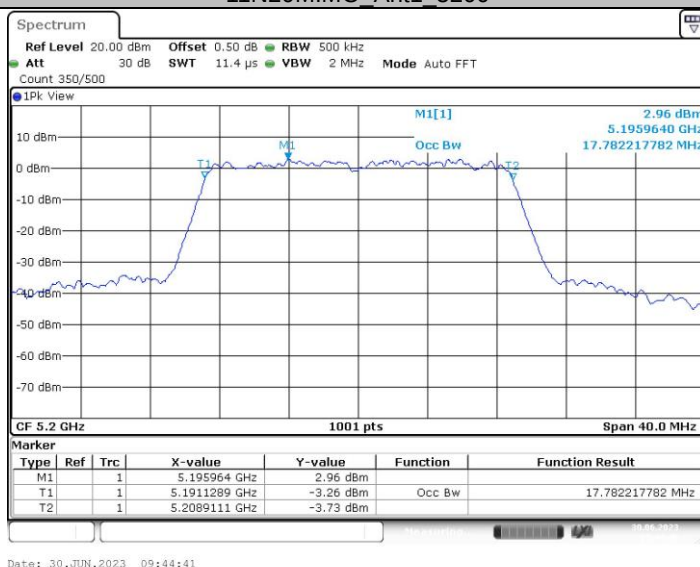
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>



11N20MIMO_Ant2_5180



11N20MIMO_Ant1_5200



11N20MIMO_Ant2_5200

CTC Laboratories, Inc.

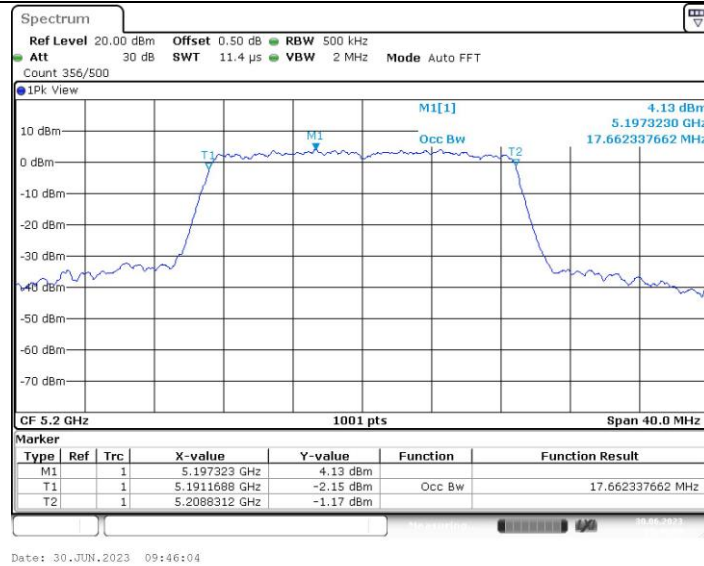
2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China

Tel.: (86)755-27521059

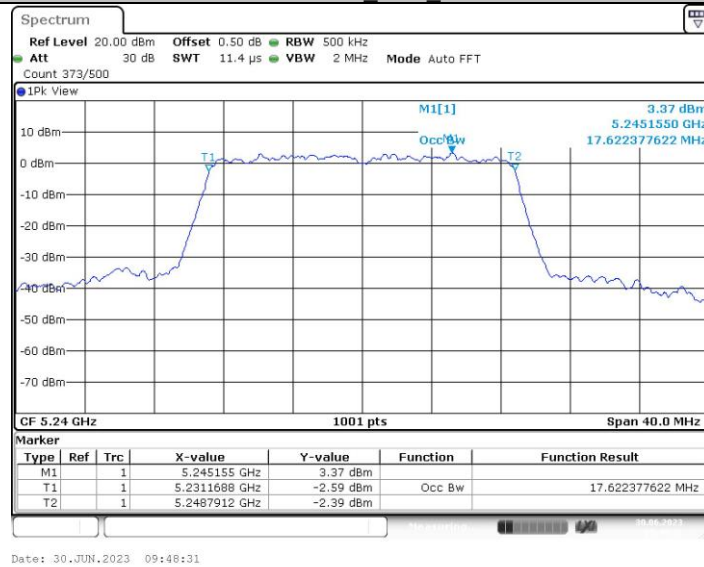
Fax: (86)755-27521011

Http://www.sz-ctc.org.cn

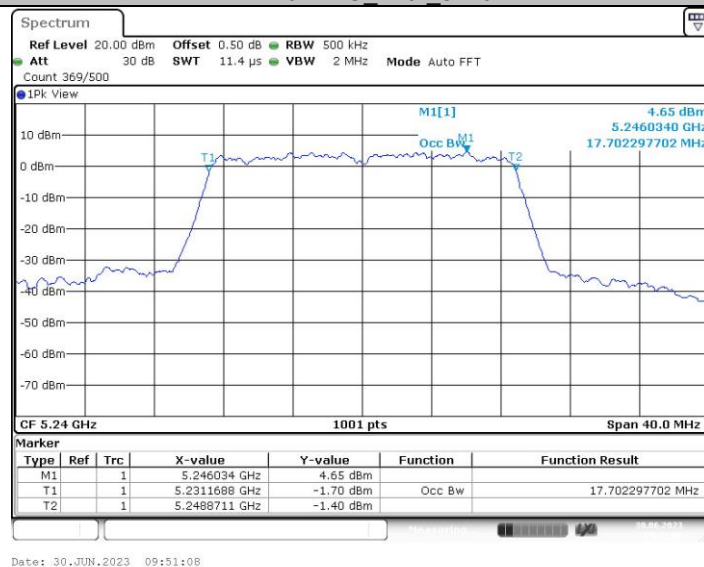
For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>



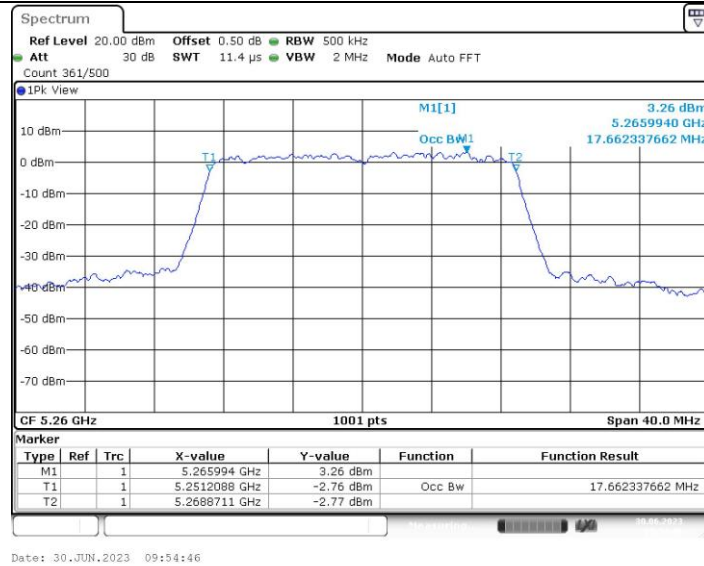
11N20MIMO_Ant1_5240



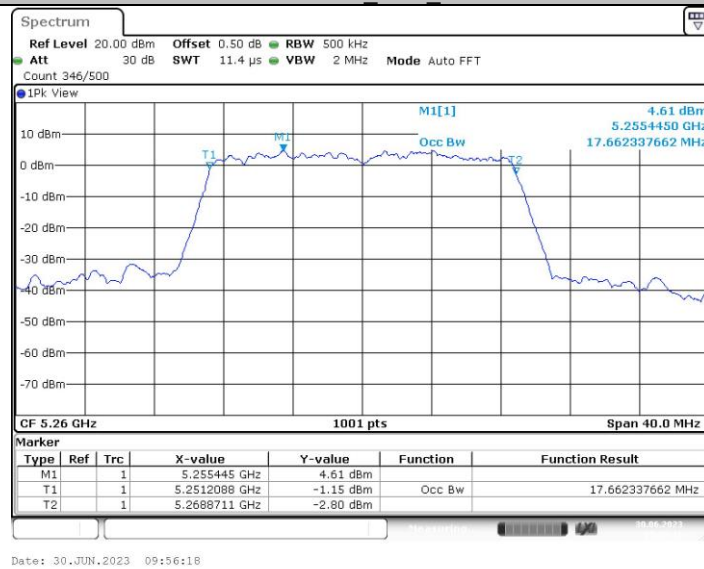
11N20MIMO_Ant2_5240



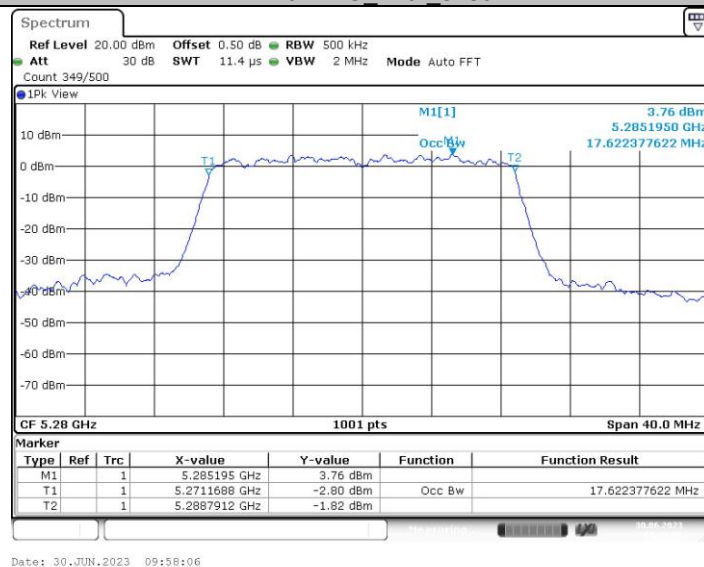
11N20MIMO_Ant1_5260



11N20MIMO_Ant2_5260



11N20MIMO_Ant1_5280



11N20MIMO_Ant2_5280

CTC Laboratories, Inc.

2/F., Building 1 and 1-2/F., Building 2, Jiaquan Building, Guanlan High-Tech Park, Longhua District, Shenzhen, Guangdong, China
Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn



For anti-fake verification, please visit the official website of Certification and Accreditation Administration of the People's Republic of China : <http://yz.cnca.cn>