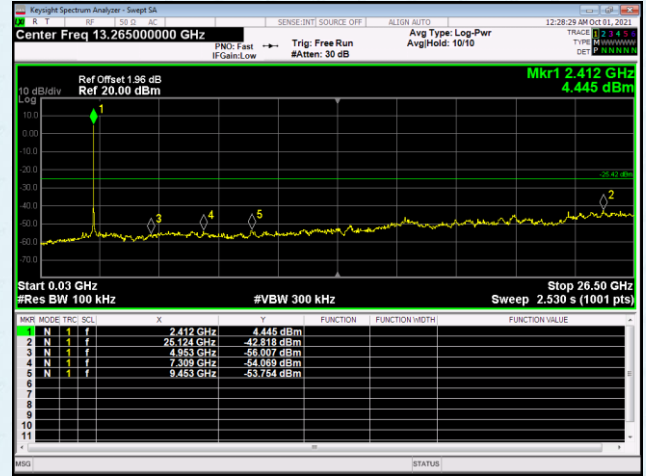
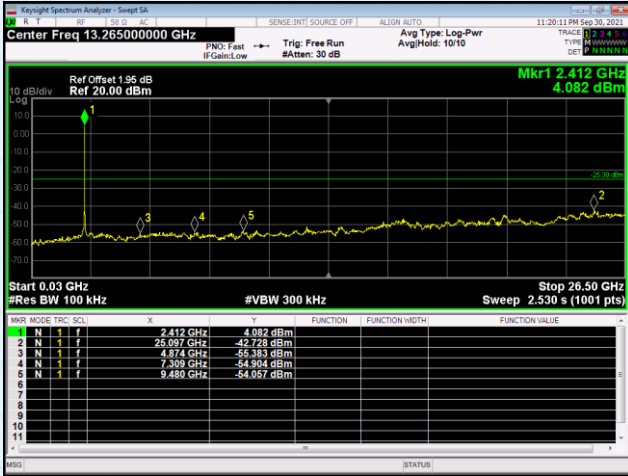
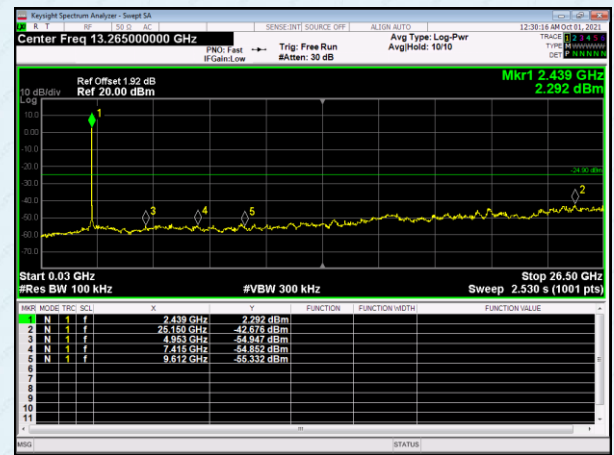
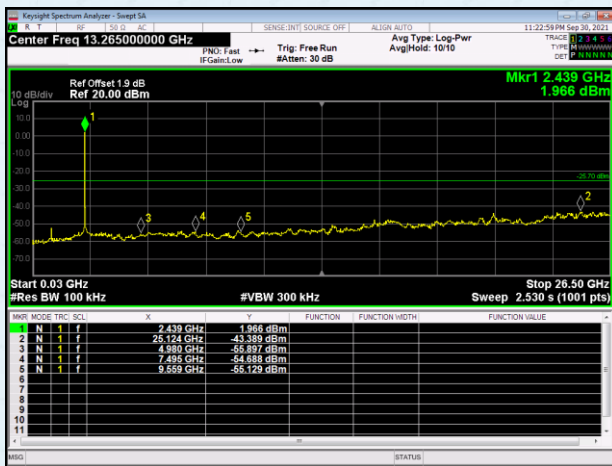


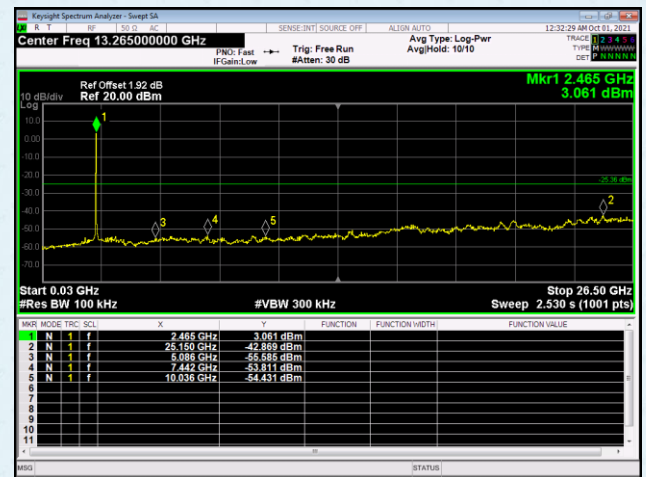
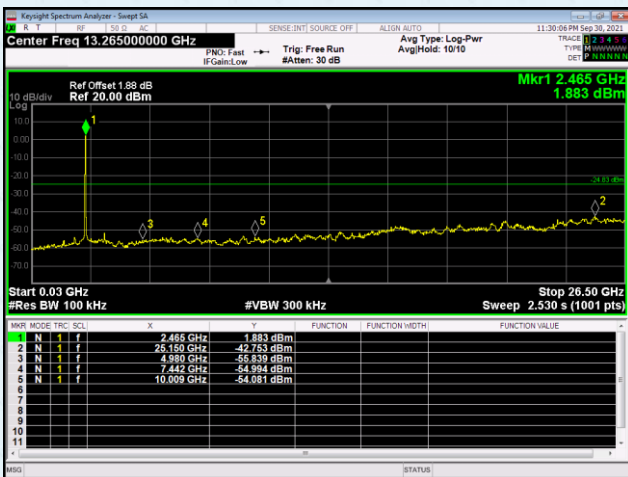
Test mode: 802.11n (HT20) Ant A Test mode: 802.11n (HT20) (Ant B)



Lowest channel

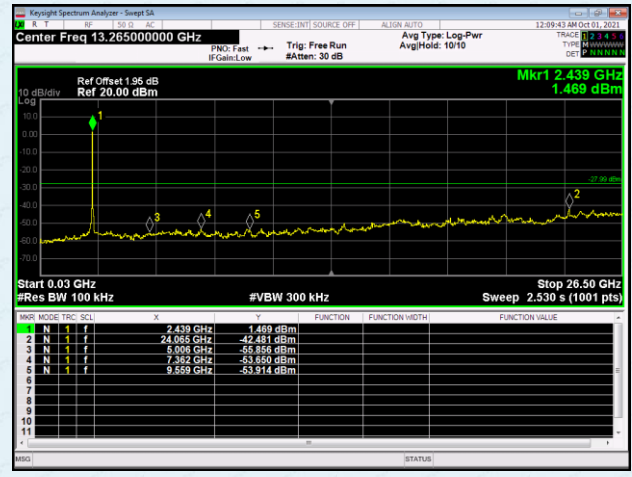
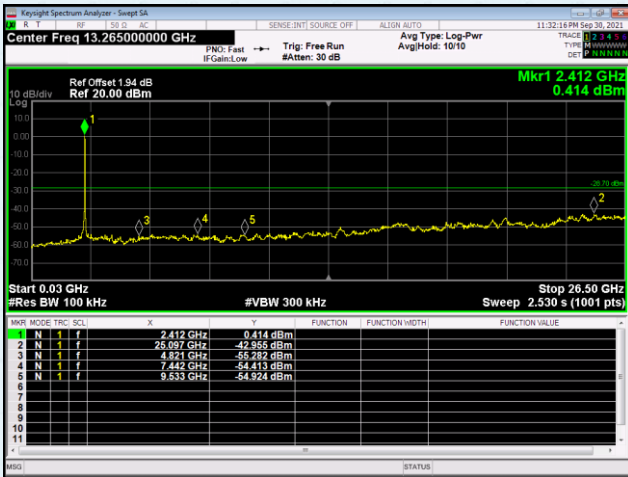


Middle channel

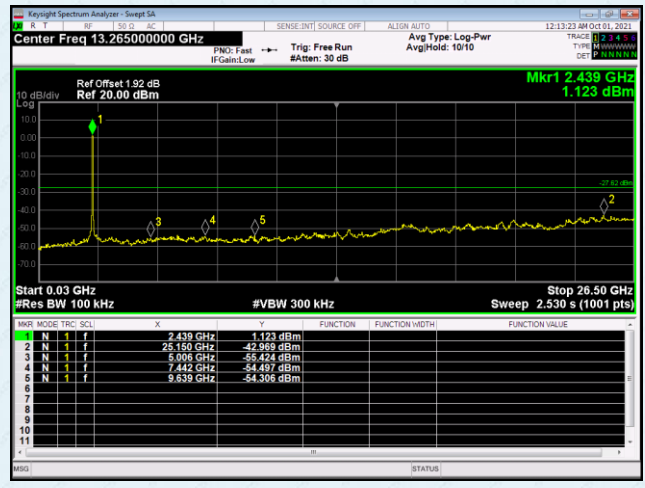
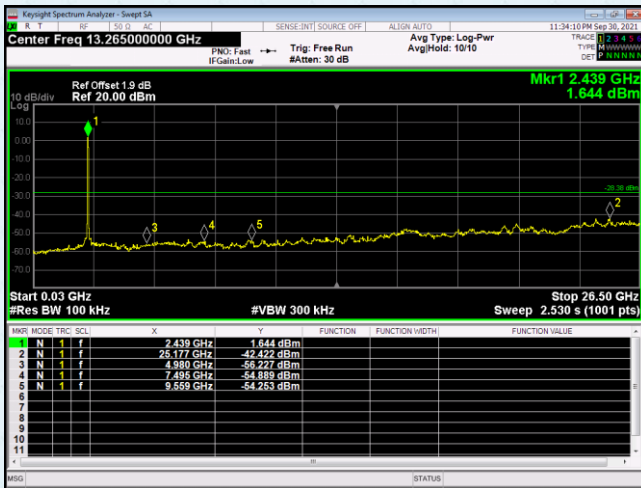


Highest channel

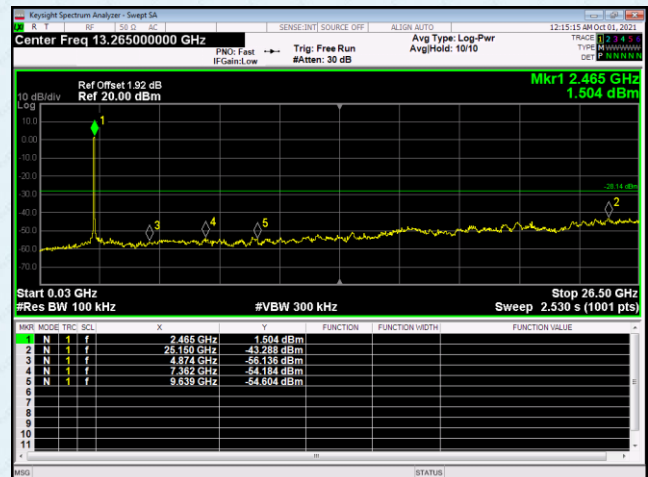
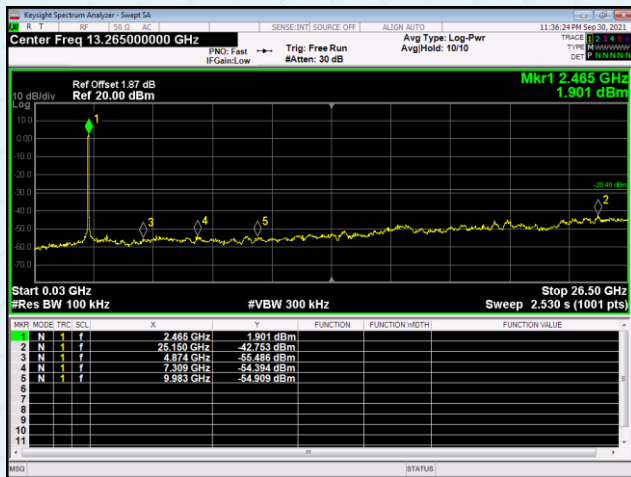
Test mode:	802.11n (HT40) Ant A	Test mode:	802.11n (HT40) (Ant B)
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Lowest channel

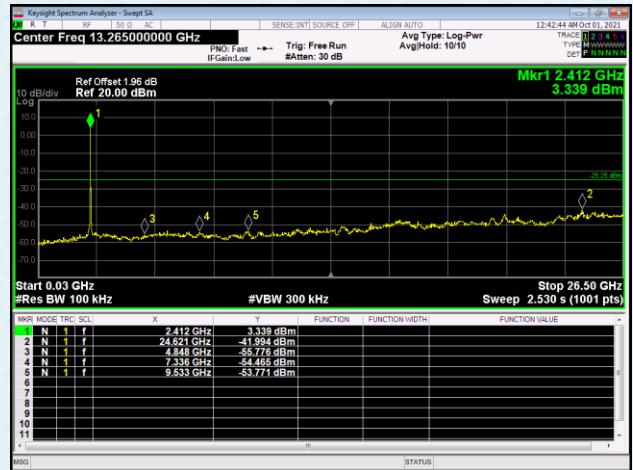
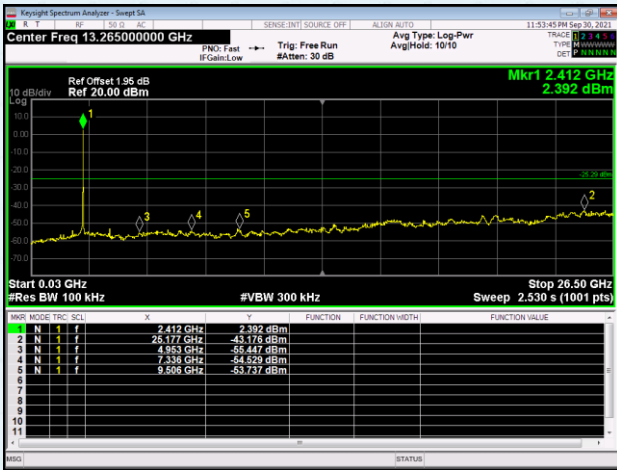


Middle channel

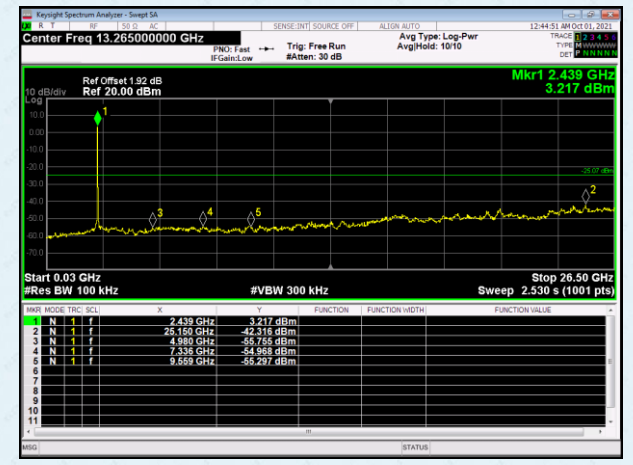
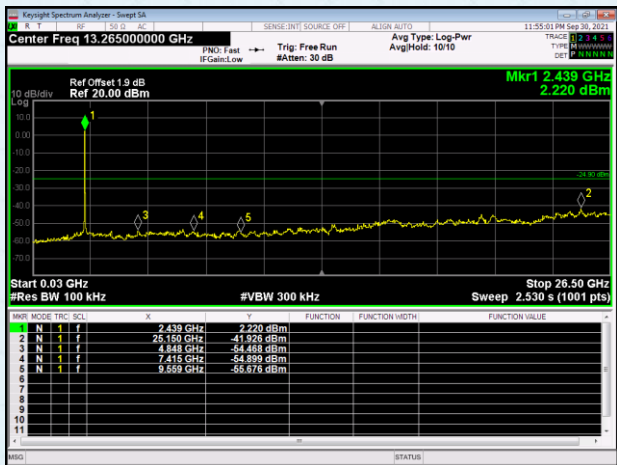


Highest channel

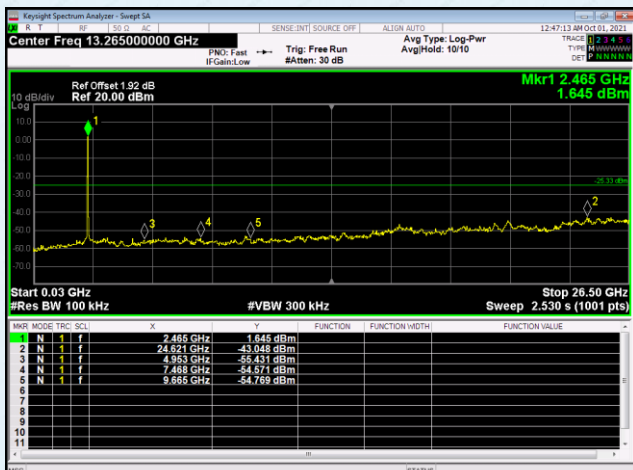
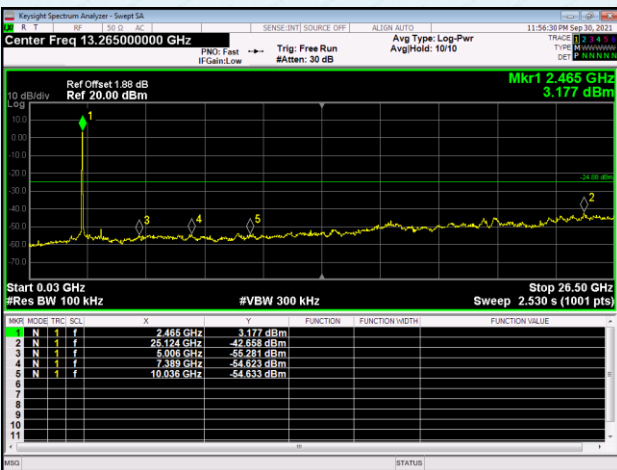
Test mode: 802.11ax (HE20) Ant A Test mode: 802.11ax (HE20) (Ant B)



Lowest channel

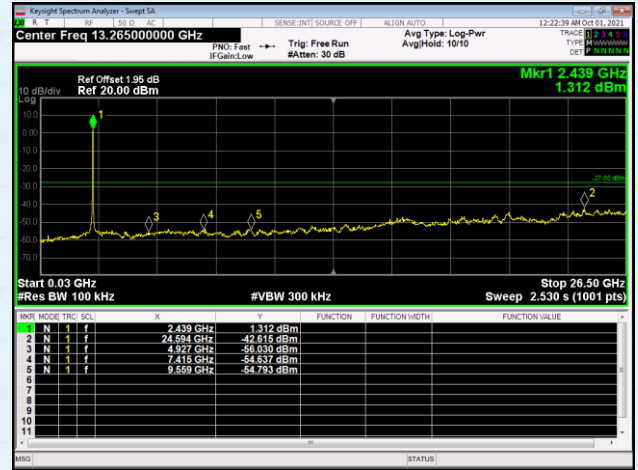
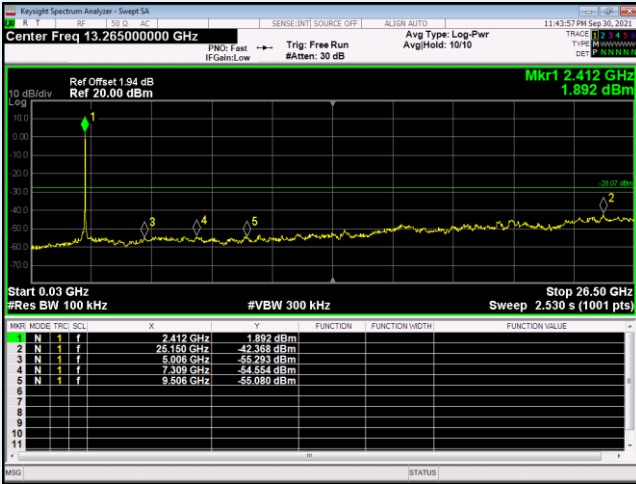


Middle channel

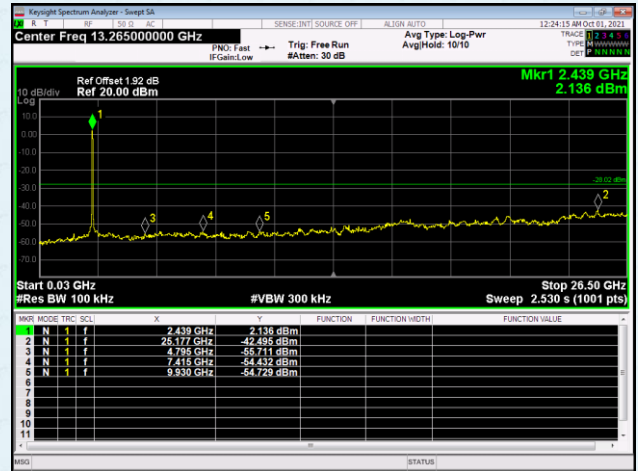
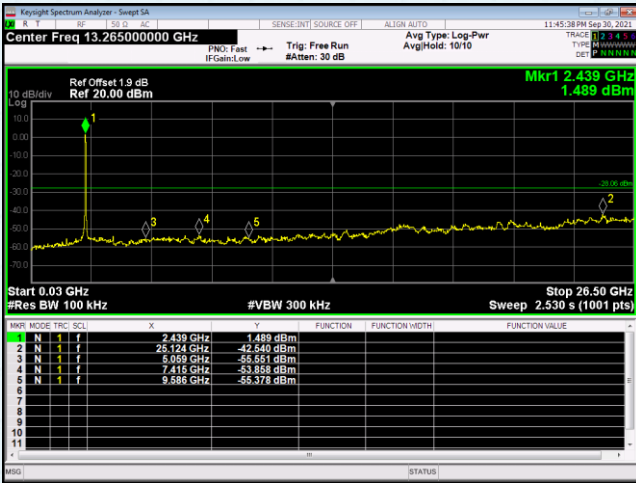


Highest channel

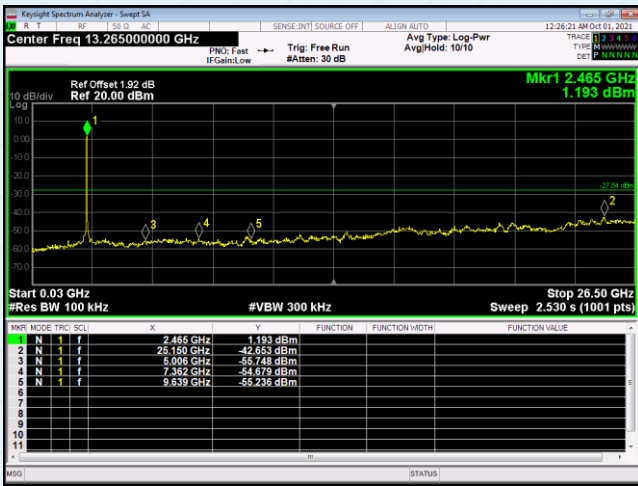
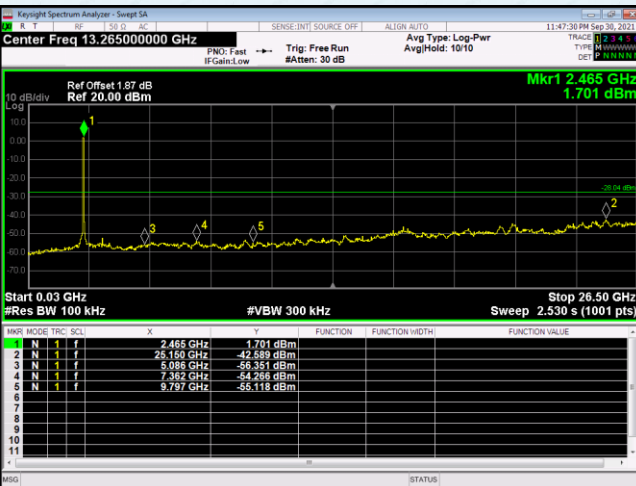
Test mode: 802.11ax (HE40) Ant A Test mode: 802.11ax (HE40) (Ant B)



Lowest channel

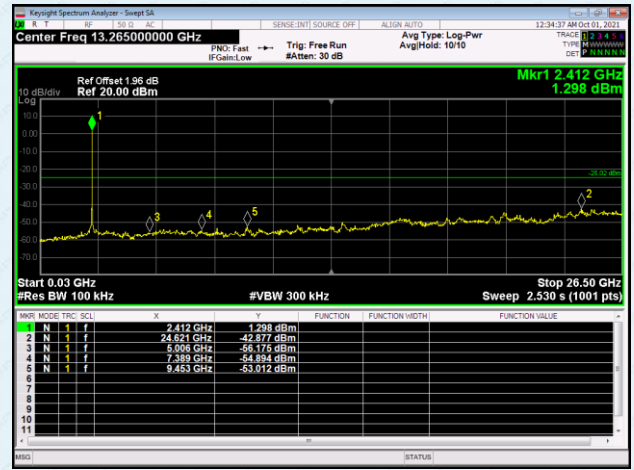
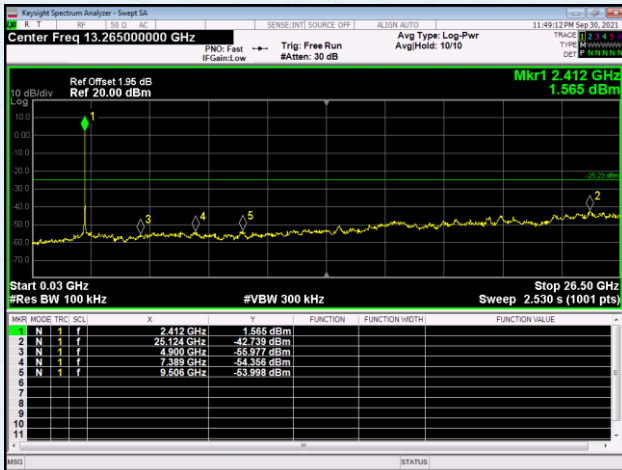


Middle channel

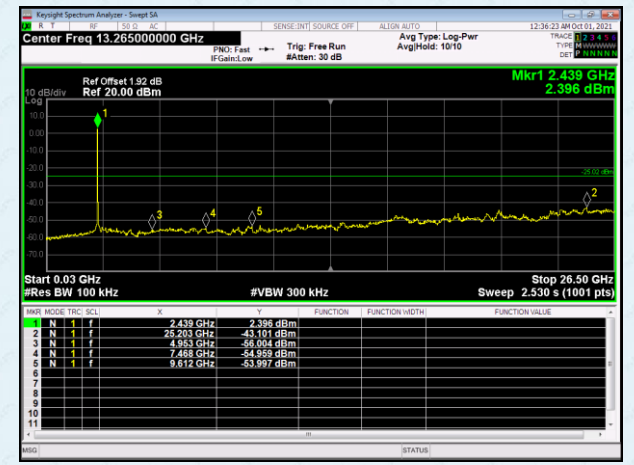
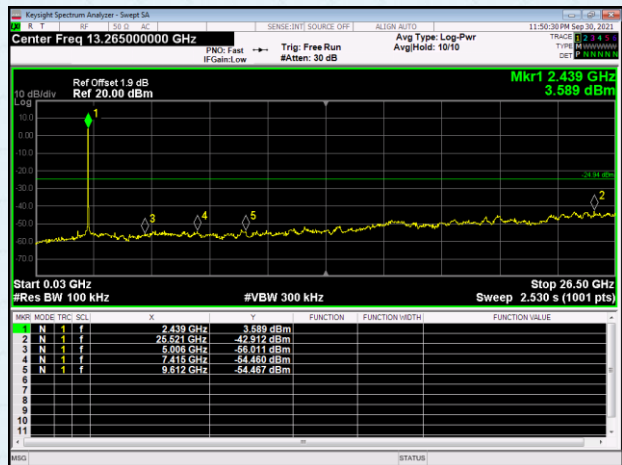


Highest channel

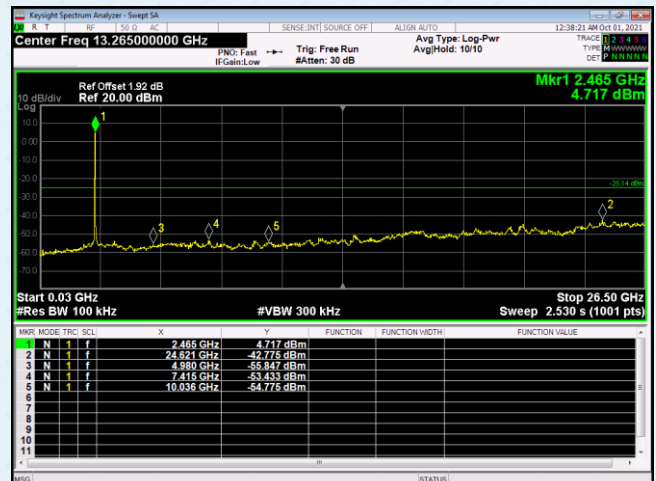
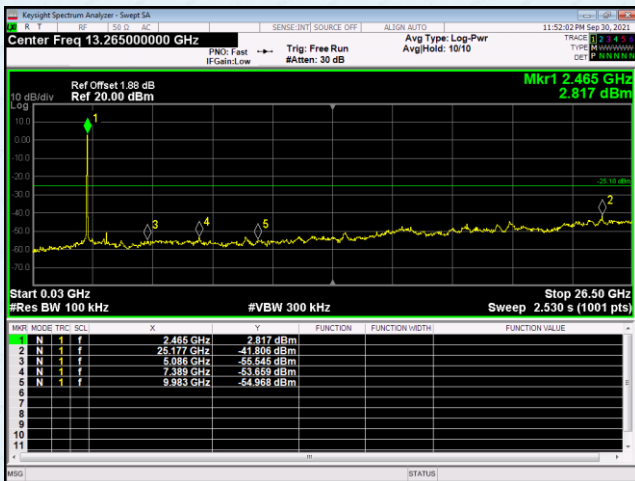
Test mode:	IEEE VHT20 Ant A	Test mode:	IEEE VHT20 (Ant B)
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Lowest channel

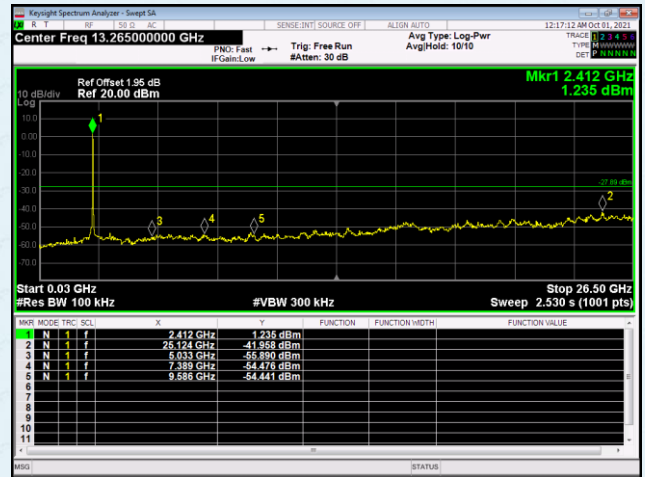
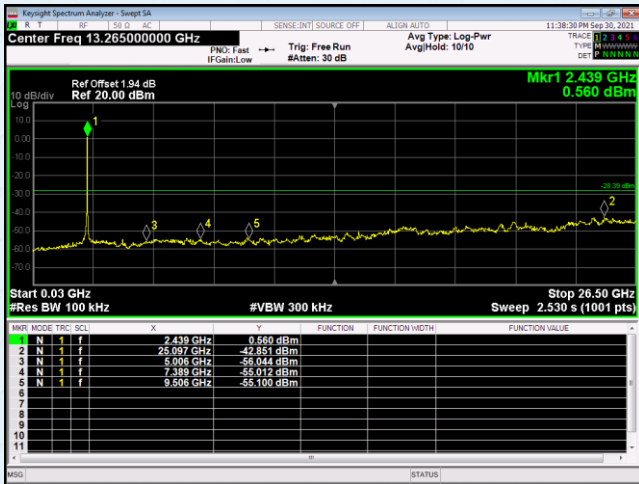


Middle channel

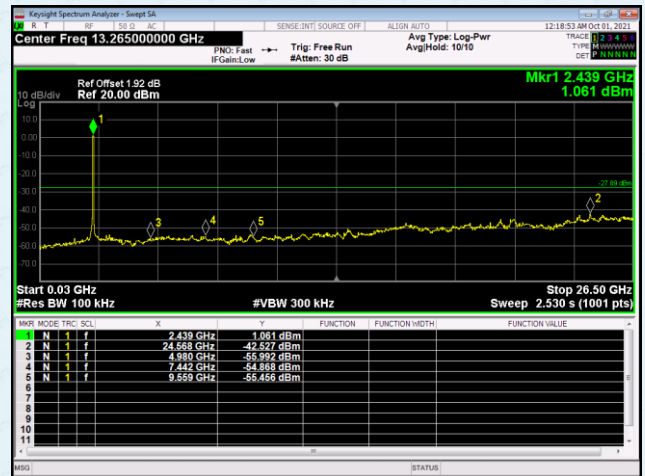
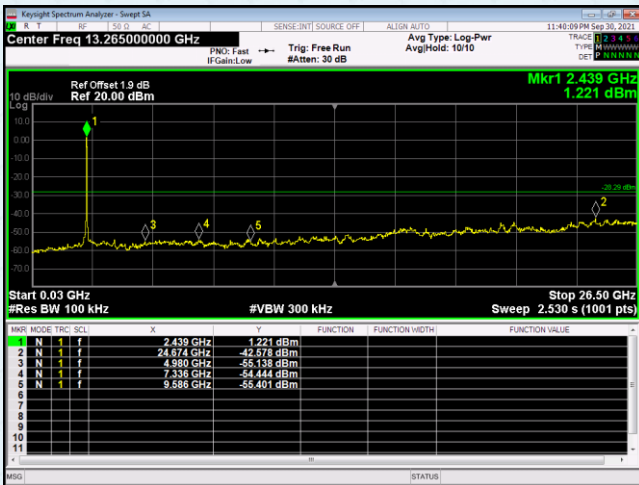


Highest channel

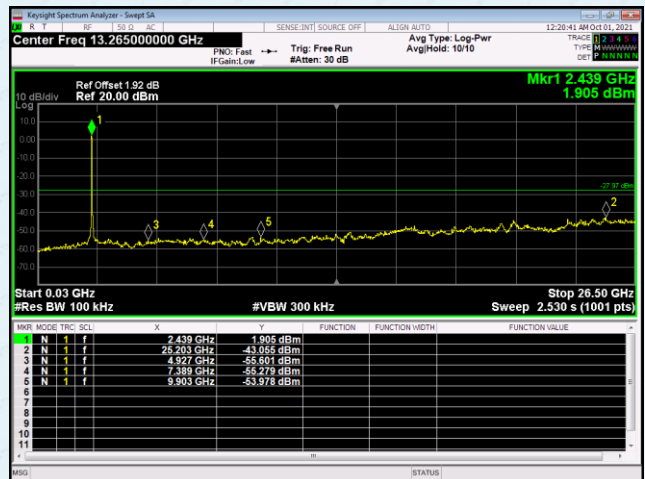
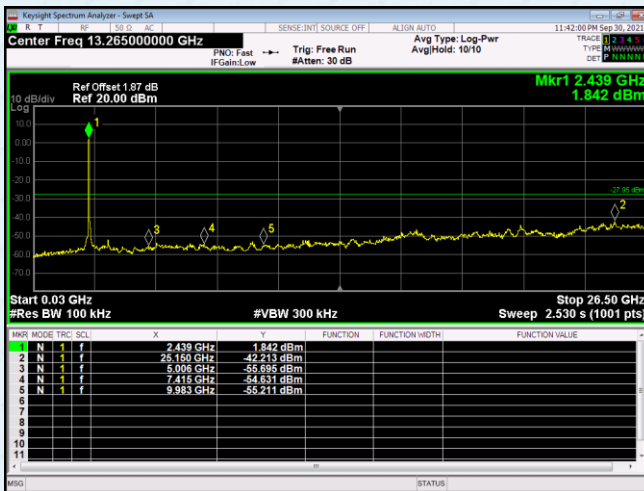
Test mode:	IEEE VHT40 Ant A	Test mode:	IEEE VHT40 (Ant B)
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Lowest channel

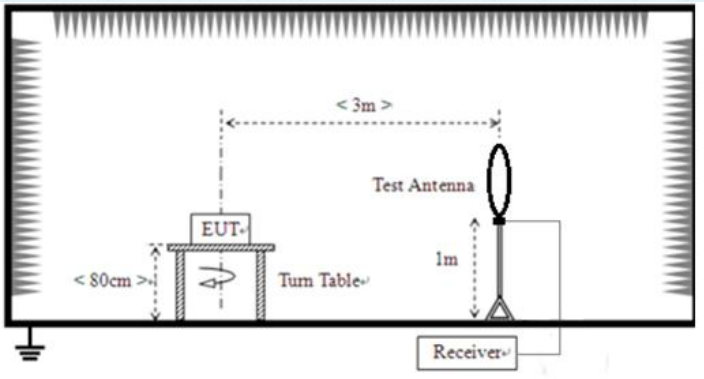


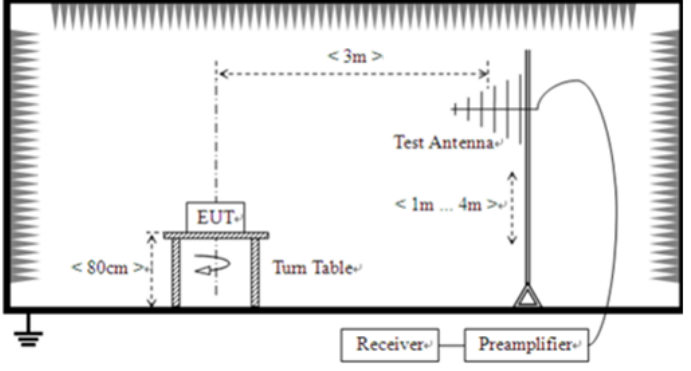
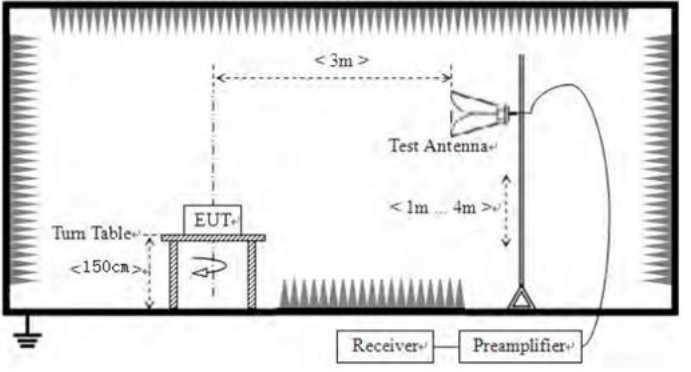
Middle channel



Highest channel

7.7.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10: 2013				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9KHz-150KHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150KHz-30MHz	Quasi-peak	9KHz	30KHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
Peak		1MHz	10Hz	Average	
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(KHz)	QP	300m	
	0.490MHz-1.705MHz	24000/F(KHz)	QP	300m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz				
	 <p>The diagram illustrates the test setup for radiated emissions from 9kHz to 30MHz. It shows an Equipment Under Test (EUT) placed on a turn table. The EUT is 80cm high. A test antenna is positioned 3m away from the EUT and 1m high. The antenna is connected to a receiver. The setup is shown within a shielded enclosure.</p>				
For radiated emissions from 30MHz to 1GHz					

	 <p>For radiated emissions above 1GHz</p> 
<p>Test Procedure:</p>	<ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
<p>Test Instruments:</p>	<p>Refer to section 6.0 for details</p>

Test mode:	Refer to section 5.2 for details					
Test voltage:	AC120V 60Hz					
Test environment:	Temp.:	25 °C	Humid.:	56%	Press.:	1012mbar
Test voltage:	AC 120V, 60Hz					
Test results:	Pass					

Remarks:

1. *Only the worst case Main Antenna test data.*
2. *Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.*

Measurement data:

■ **9kHz~30MHz**

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o) & RSS-Gen 6.13, the test result no need to reported.

30MHz~1GHz

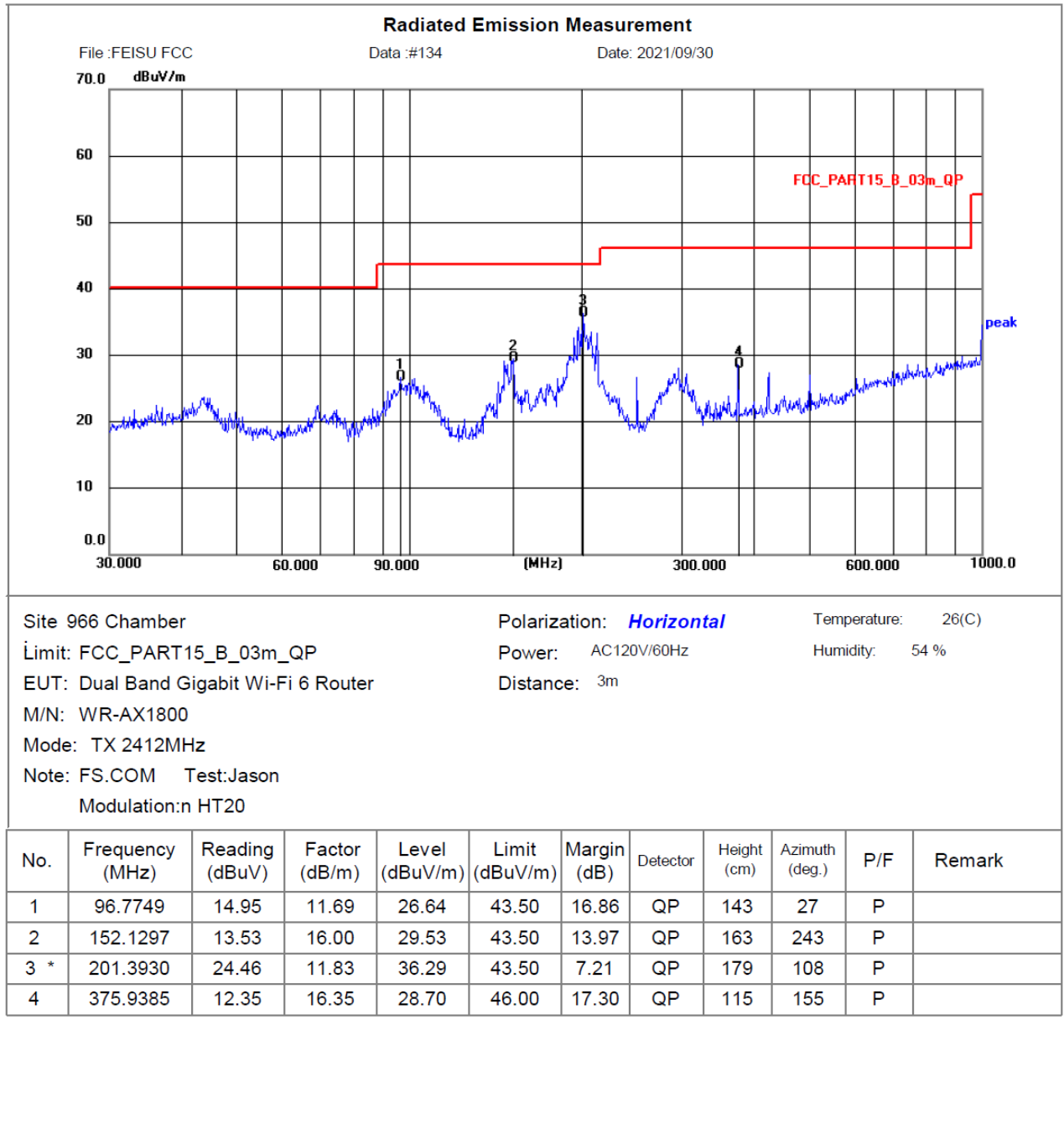
Pre-scan all test modes, found worst case at 802.11n(HT20), and so only show the test result of 802.11(HT20)

Above 1GHz

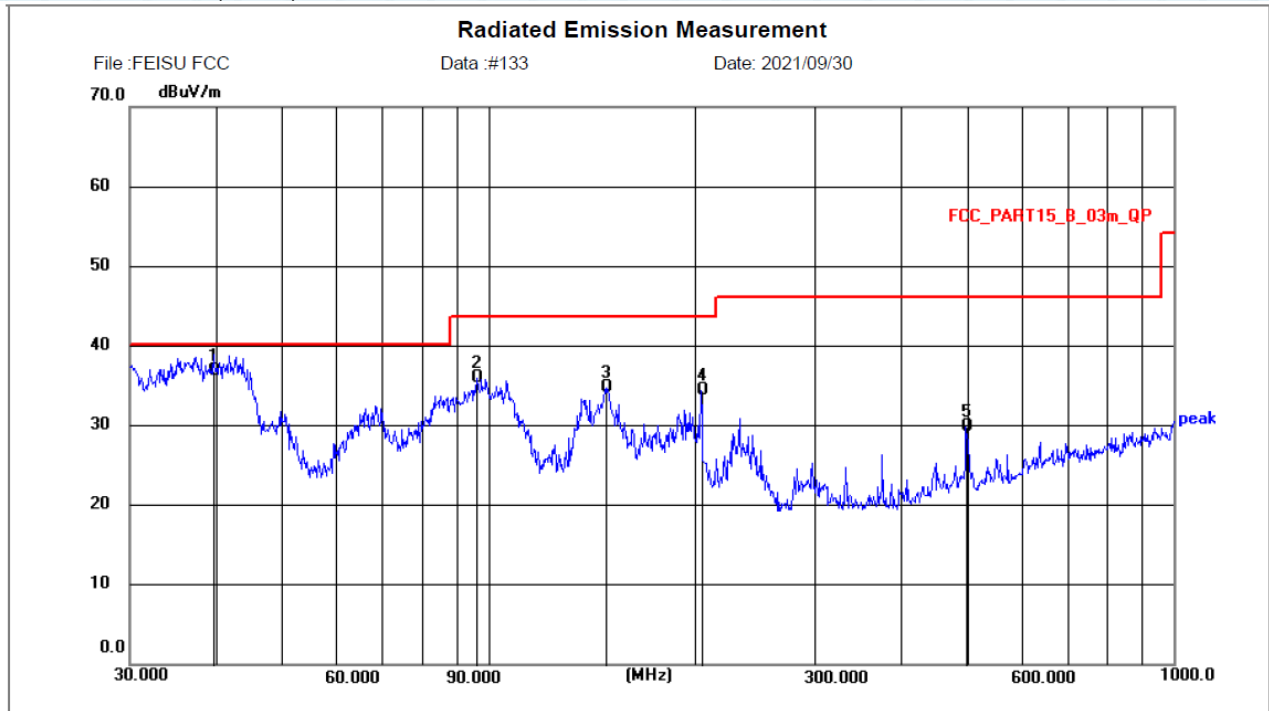
Pre-scan all test modes, found worst case at 802.11g, 802.11ax(HE40), and so only show the test result of 802.11g, 802.11ax(HE40).

■ Below 1GHz

Horizontal: 802.11n(HT20) TX 2412MHz



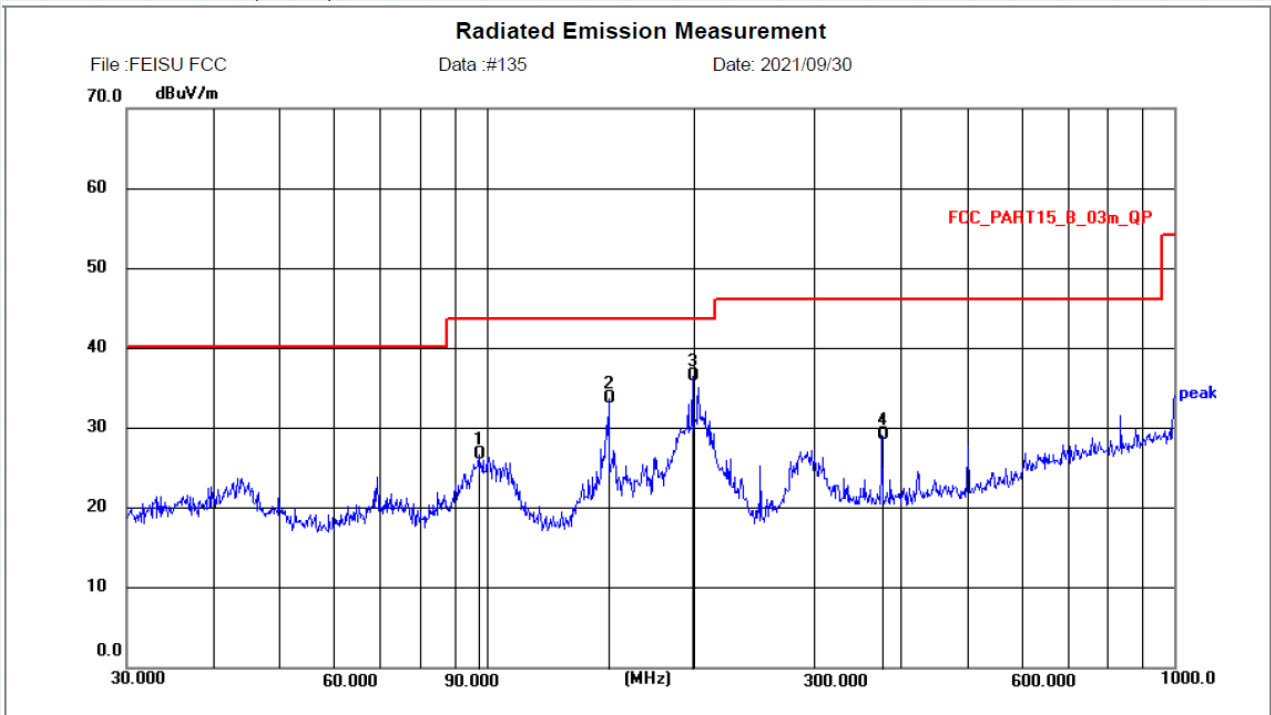
Vertical: 802.11n(HT20) TX 2412MHz



Site 966 Chamber	Polarization: Vertical	Temperature: 26(C)
Limit: FCC_PART15_B_03m_QP	Power: AC120V/60Hz	Humidity: 54 %
EUT: Dual Band Gigabit Wi-Fi 6 Router	Distance: 3m	
M/N: WR-AX1800		
Mode: TX 2412MHz		
Note: FS.COM Test:Jason		
Modulation:nax HT20		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	39.7146	21.60	15.29	36.89	40.00	3.11	QP	105	35	P	
2	96.0986	24.41	11.64	36.05	43.50	7.45	QP	124	63	P	
3	148.4410	19.08	15.66	34.74	43.50	8.76	QP	133	142	P	
4	204.2377	22.52	11.94	34.46	43.50	9.04	QP	187	158	P	
5	497.6765	11.31	18.59	29.90	46.00	16.10	QP	112	242	P	

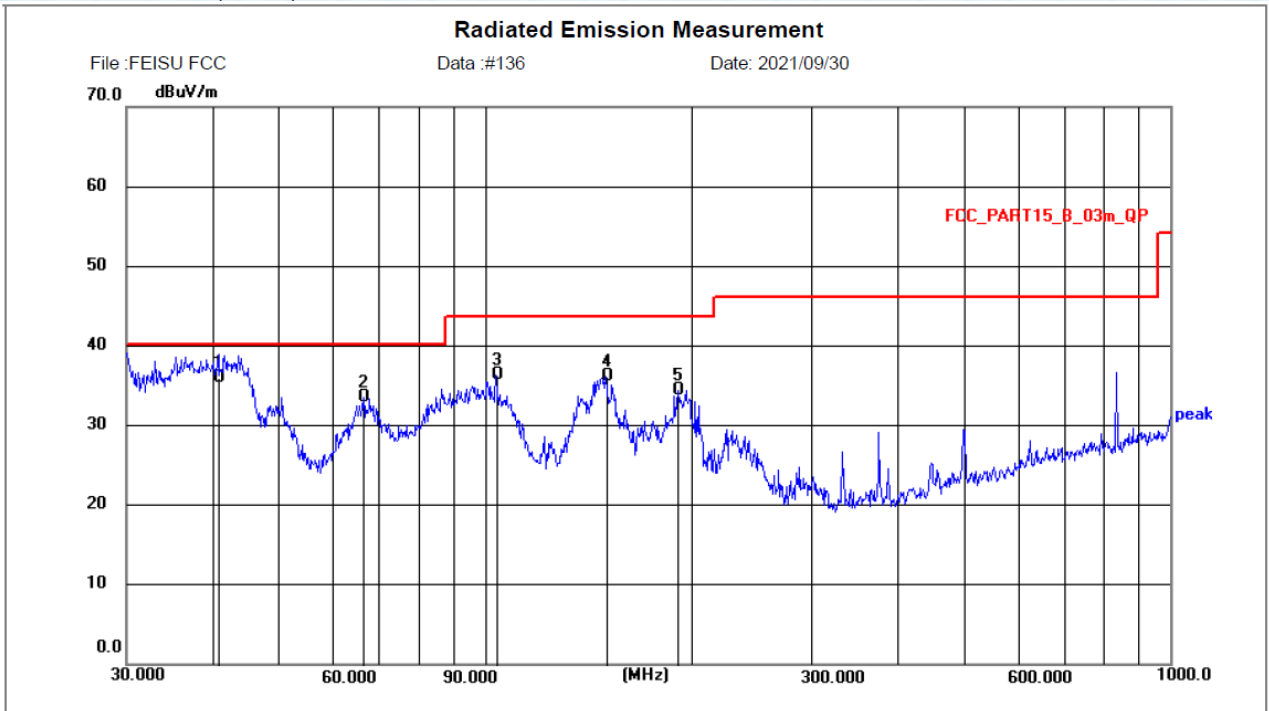
Horizontal: 802.11n(HT20) TX 2437MHz



Site 966 Chamber Polarization: **Horizontal** Temperature: 26(C)
 Limit: FCC_PART15_B_03m_QP Power: AC120V/60Hz Humidity: 54 %
 EUT: Dual Band Gigabit Wi-Fi 6 Router Distance: 3m
 M/N: WR-AX1800
 Mode: TX 2437MHz
 Note: FS.COM Test: Jason
 Modulation: n HT20

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	97.4560	14.91	11.75	26.66	43.50	16.84	QP	161	214	P	
2	150.5378	17.70	16.00	33.70	43.50	9.80	QP	177	105	P	
3 *	199.2855	24.72	11.82	36.54	43.50	6.96	QP	201	188	P	
4	375.9385	12.84	16.35	29.19	46.00	16.81	QP	124	196	P	

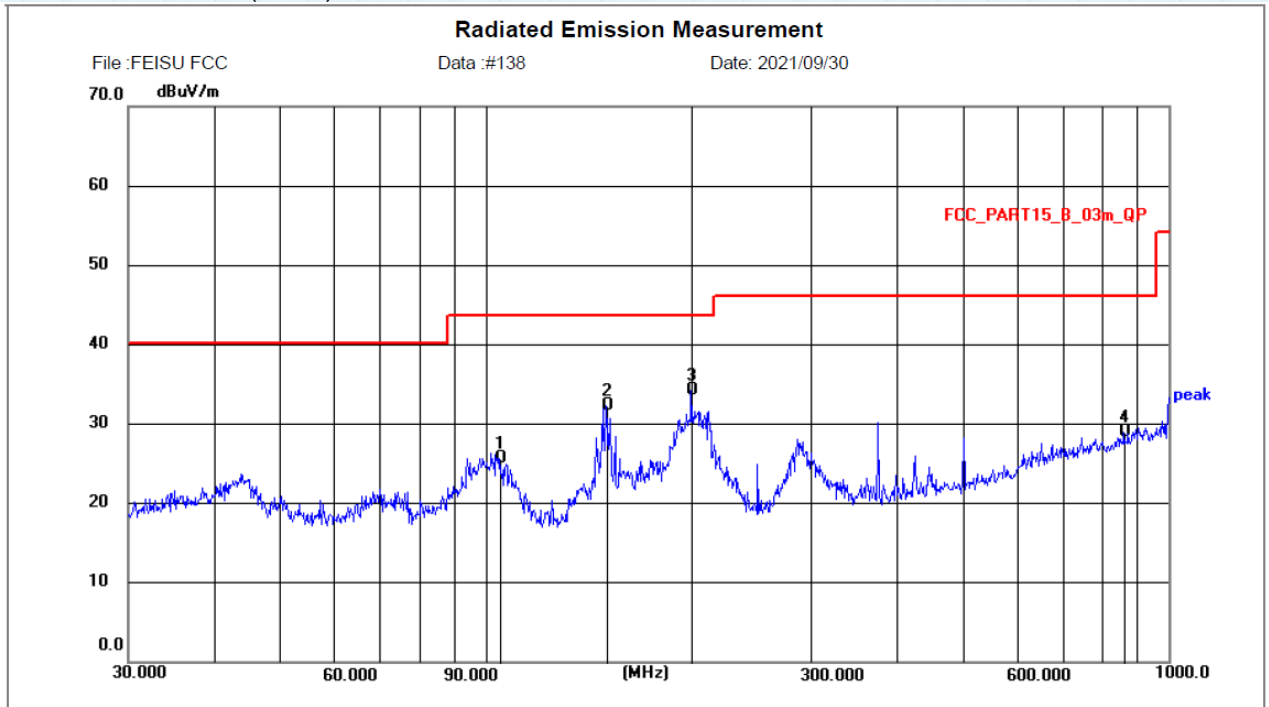
Vertical: 802.11n(HT20) TX 2437MHz



Site 966 Chamber Polarization: **Vertical** Temperature: 26(C)
 Limit: FCC_PART15_B_03m_QP Power: AC120V/60Hz Humidity: 54 %
 EUT: Dual Band Gigabit Wi-Fi 6 Router Distance: 3m
 M/N: WR-AX1800
 Mode: TX 2437MHz
 Note: FS.COM Test:Jason
 Modulation:n HT20

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	40.8446	20.68	15.27	35.95	40.00	4.05	QP	106	125	P	
2	66.4989	20.51	13.00	33.51	40.00	6.49	QP	132	163	P	
3	103.8055	23.99	12.32	36.31	43.50	7.19	QP	148	145	P	
4	150.0108	20.19	16.00	36.19	43.50	7.31	QP	176	287	P	
5	191.0738	22.18	12.28	34.46	43.50	9.04	QP	235	301	P	

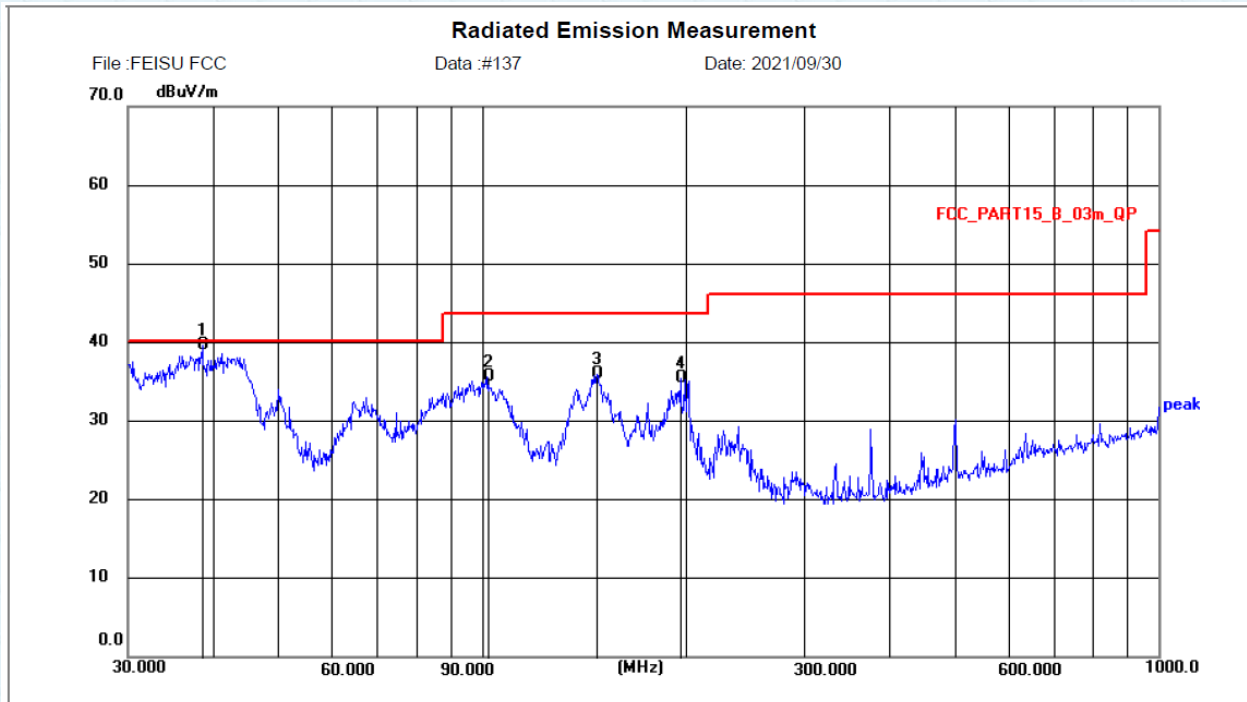
Horizontal: 802.11n(HT20) TX 2462MHz



Site 966 Chamber Polarization: **Horizontal** Temperature: 26(C)
 Limit: FCC_PART15_B_03m_QP Power: AC120V/60Hz Humidity: 54 %
 EUT: Dual Band Gigabit Wi-Fi 6 Router Distance: 3m
 M/N: WR-AX1800
 Mode: TX 2462MHz
 Note: FS.COM Test:Jason
 Modulation:n HT20

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	104.9033	13.14	12.43	25.57	43.50	17.93	QP	168	264	P	
2	150.0108	16.34	16.00	32.34	43.50	11.16	QP	176	321	P	
3 *	199.9856	22.41	11.78	34.19	43.50	9.31	QP	219	102	P	
4	860.0352	5.40	23.55	28.95	46.00	17.05	QP	223	28	P	

Vertical: 802.11n(HT20) TX 2462MHz

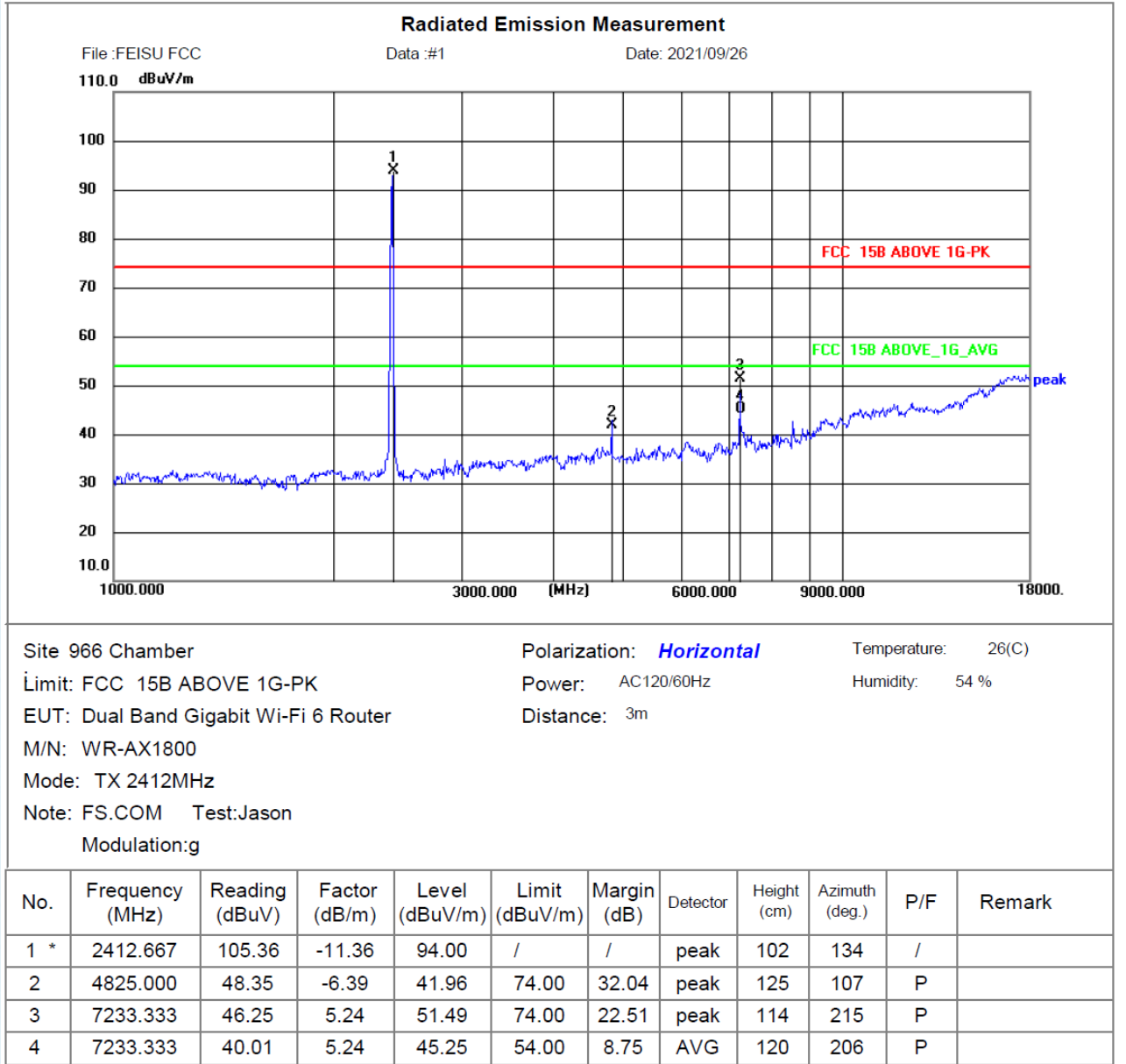


Site 966 Chamber Polarization: **Vertical** Temperature: 26(C)
 Limit: FCC_PART15_B_03m_QP Power: AC120V/60Hz Humidity: 54 %
 EUT: Dual Band Gigabit Wi-Fi 6 Router Distance: 3m
 M/N: WR-AX1800
 Mode: TX 2462MHz
 Note: FS.COM Test: Jason
 Modulation: n HT20

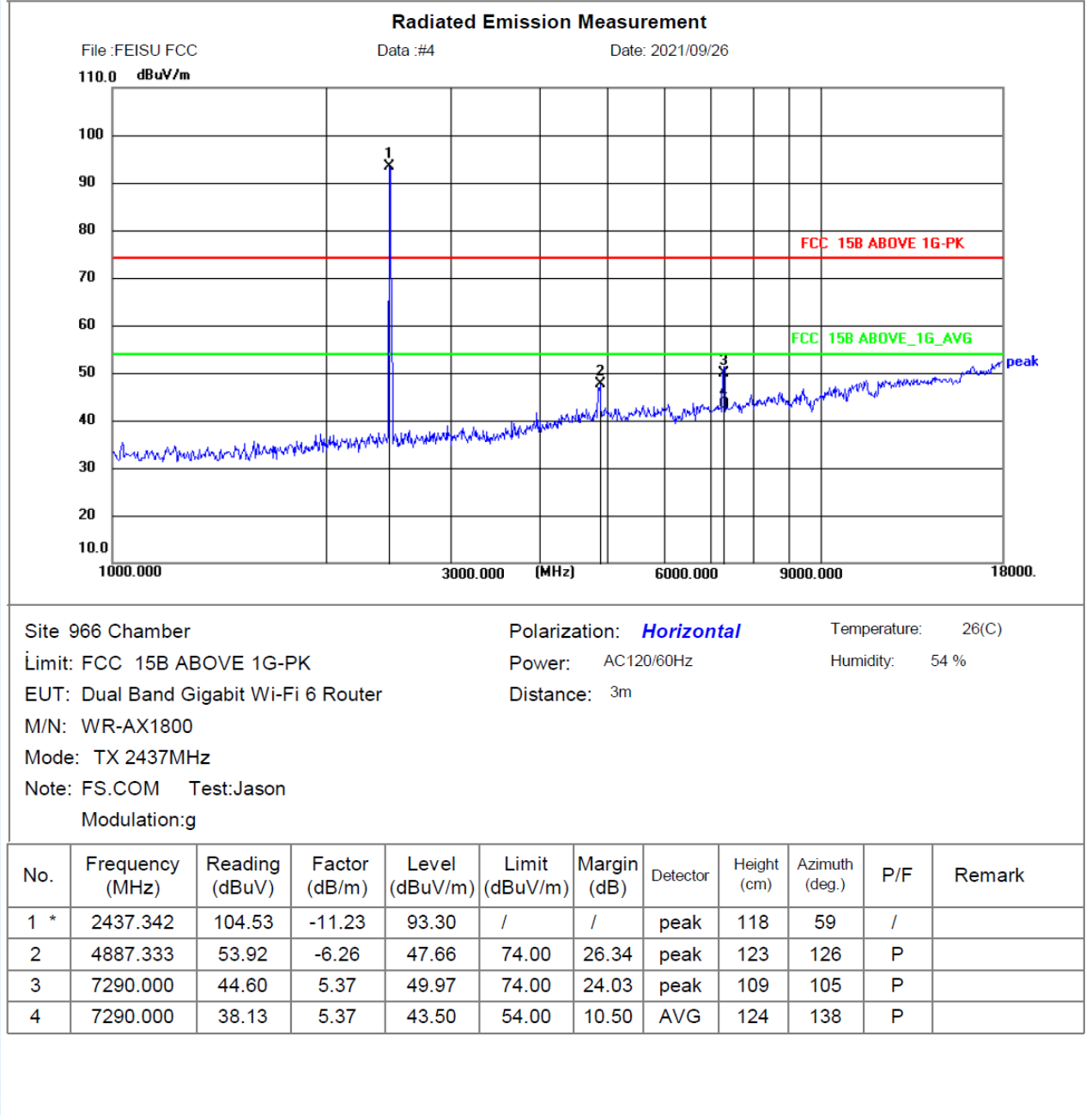
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	38.6160	24.52	15.13	39.65	40.00	0.35	QP	109	214	P	
2	102.0014	23.42	12.15	35.57	43.50	7.93	QP	124	102	P	
3	147.9214	20.43	15.55	35.98	43.50	7.52	QP	138	118	P	
4	196.5098	23.52	11.98	35.50	43.50	8.00	QP	203	301	P	

■ 1GHz~18GHz

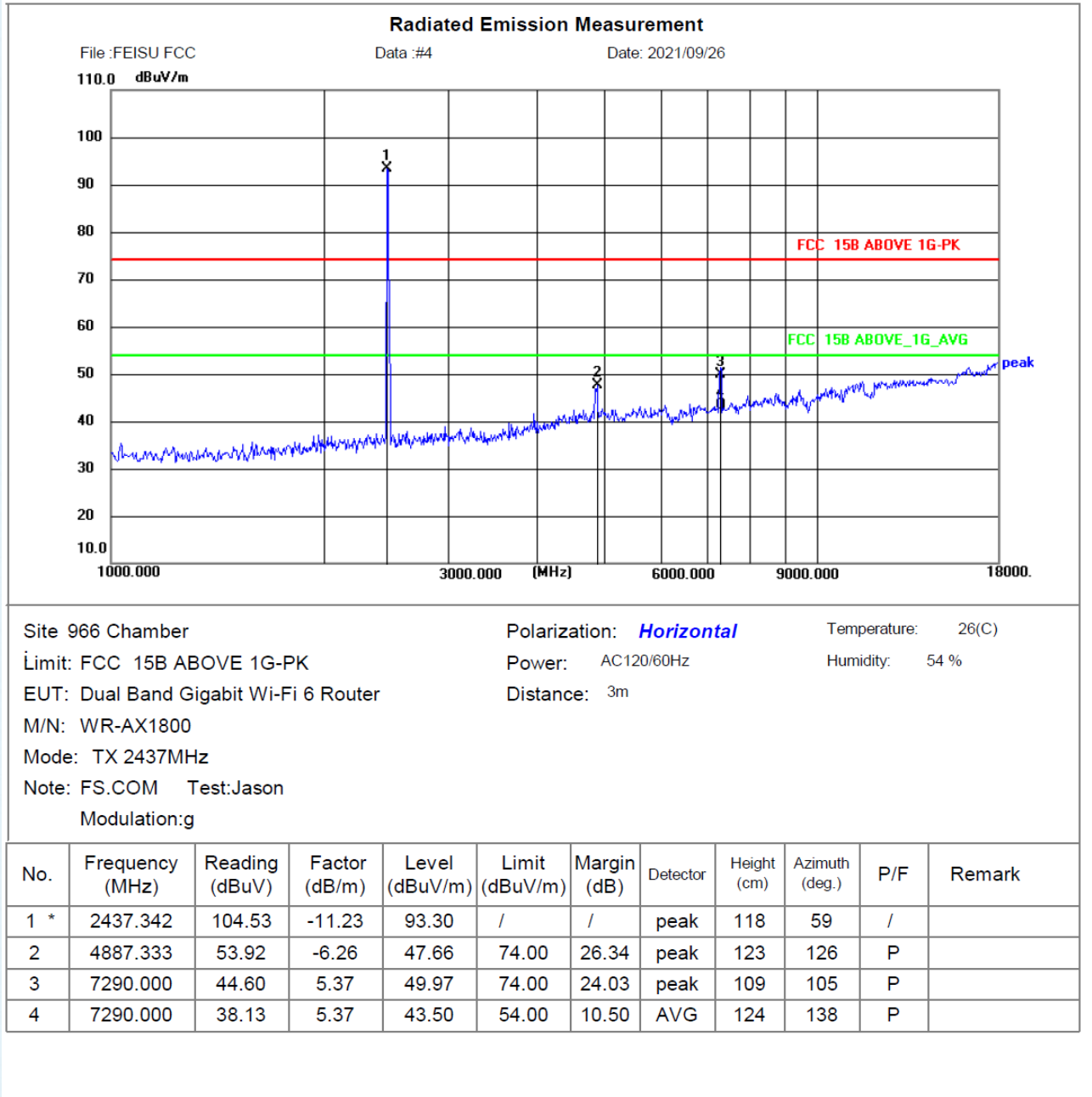
Horizontal:802.11g TX 2412MHz



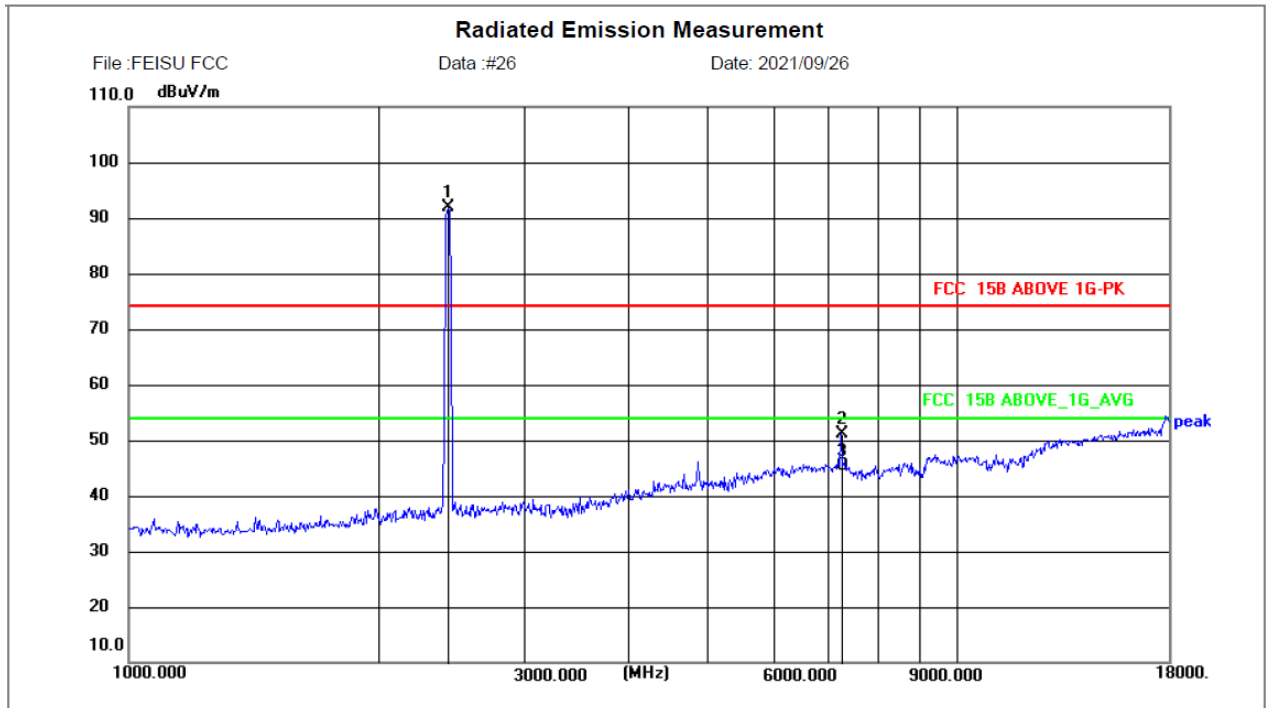
Horizontal:802.11g TX 2437MHz



Horizontal:802.11g TX 2462MHz



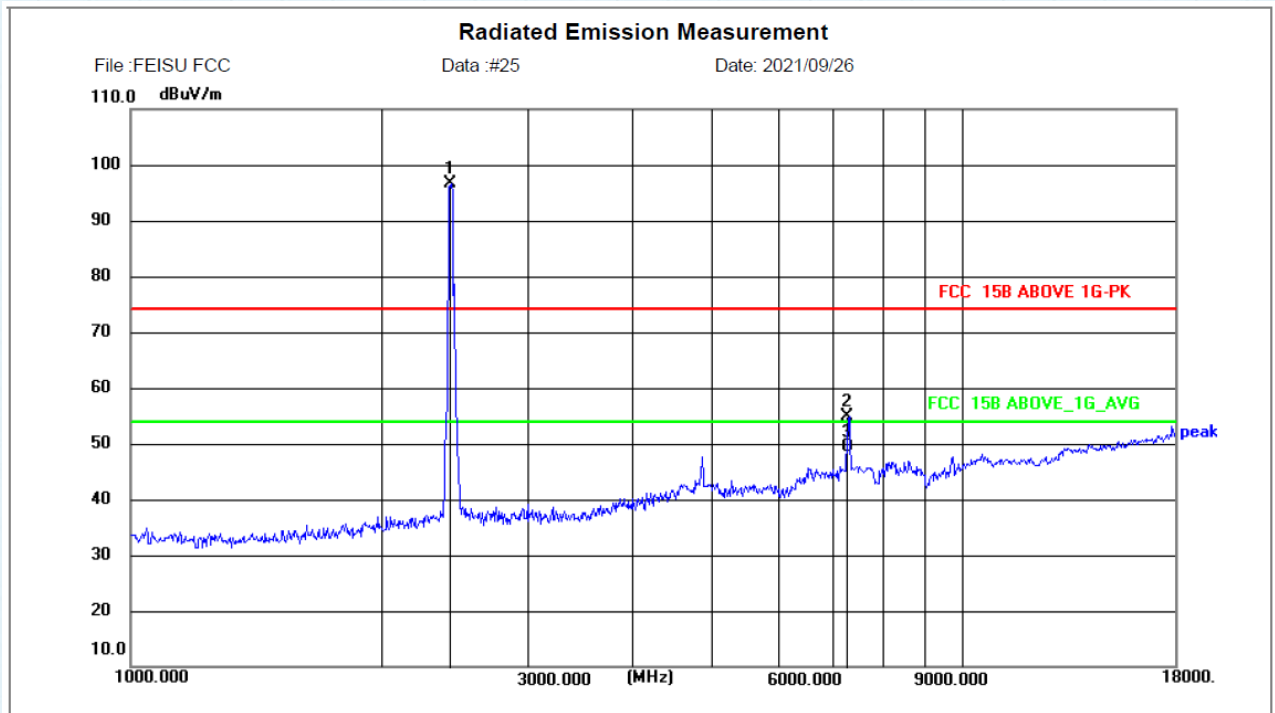
Horizontal:802.11ax(HE40) TX 2422MHz



Site 966 Chamber	Polarization: Horizontal	Temperature: 26(C)
Limit: FCC 15B ABOVE 1G-PK	Power: AC120/60Hz	Humidity: 54 %
EUT: Dual Band Gigabit Wi-Fi 6 Router	Distance: 3m	
M/N: WR-AX1800		
Mode: TX 2422MHz		
Note: FS.COM Test:Jason		
Modulation:ax HE40		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	2424.102	103.16	-11.34	91.82	/	/	peak	166	128	/	
2	7261.667	45.74	5.30	51.04	74.00	22.96	peak	150	102	P	
3	7261.667	40.11	5.30	45.41	54.00	8.59	AVG	147	78	P	

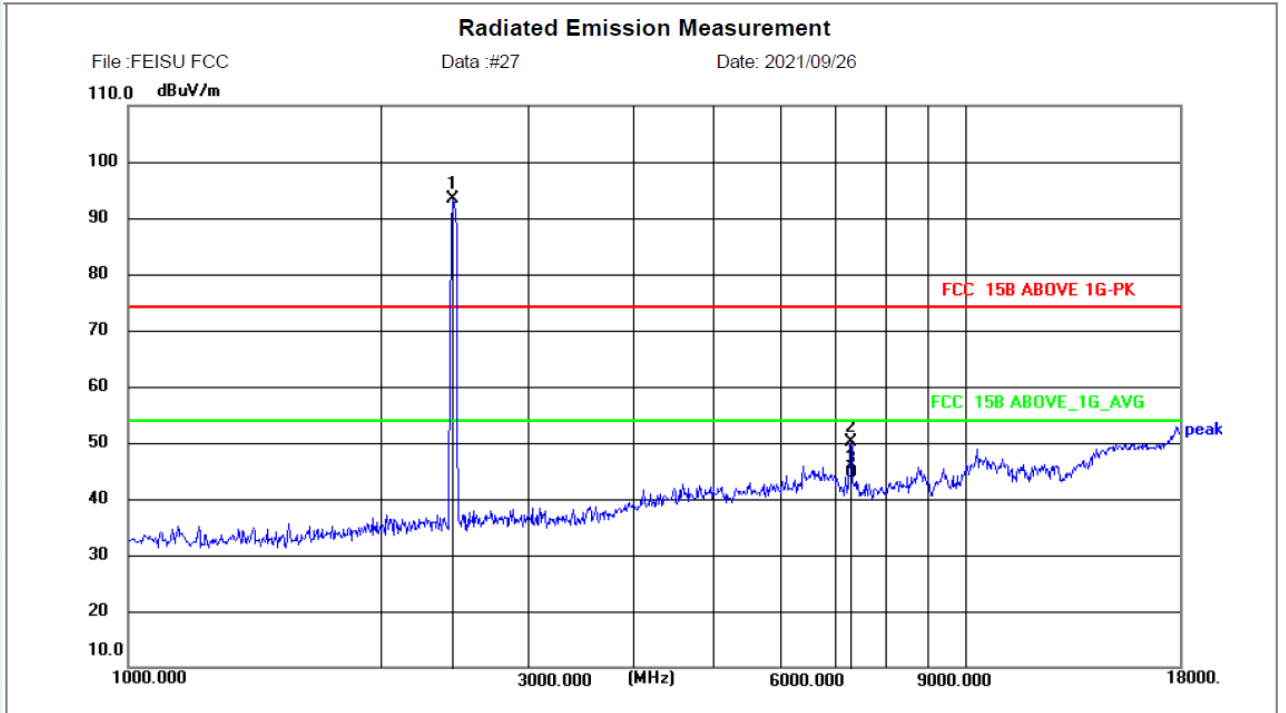
Vertical: 802.11ax(HE40) TX 2422MHz



Site 966 Chamber	Polarization: Vertical	Temperature: 26(C)
Limit: FCC 15B ABOVE 1G-PK	Power: AC120/60Hz	Humidity: 54 %
EUT: Dual Band Gigabit Wi-Fi 6 Router	Distance: 3m	
M/N: WR-AX1800		
Mode: TX 2422MHz		
Note: FS.COM Test:Jason		
Modulation:ax HE40		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	2422.312	108.07	-11.34	96.73	/	/	peak	158	112	/	
2	7267.235	49.50	5.31	54.81	74.00	19.19	peak	146	103	P	
3	7267.235	43.95	5.31	49.26	54.00	4.74	AVG	151	89	P	

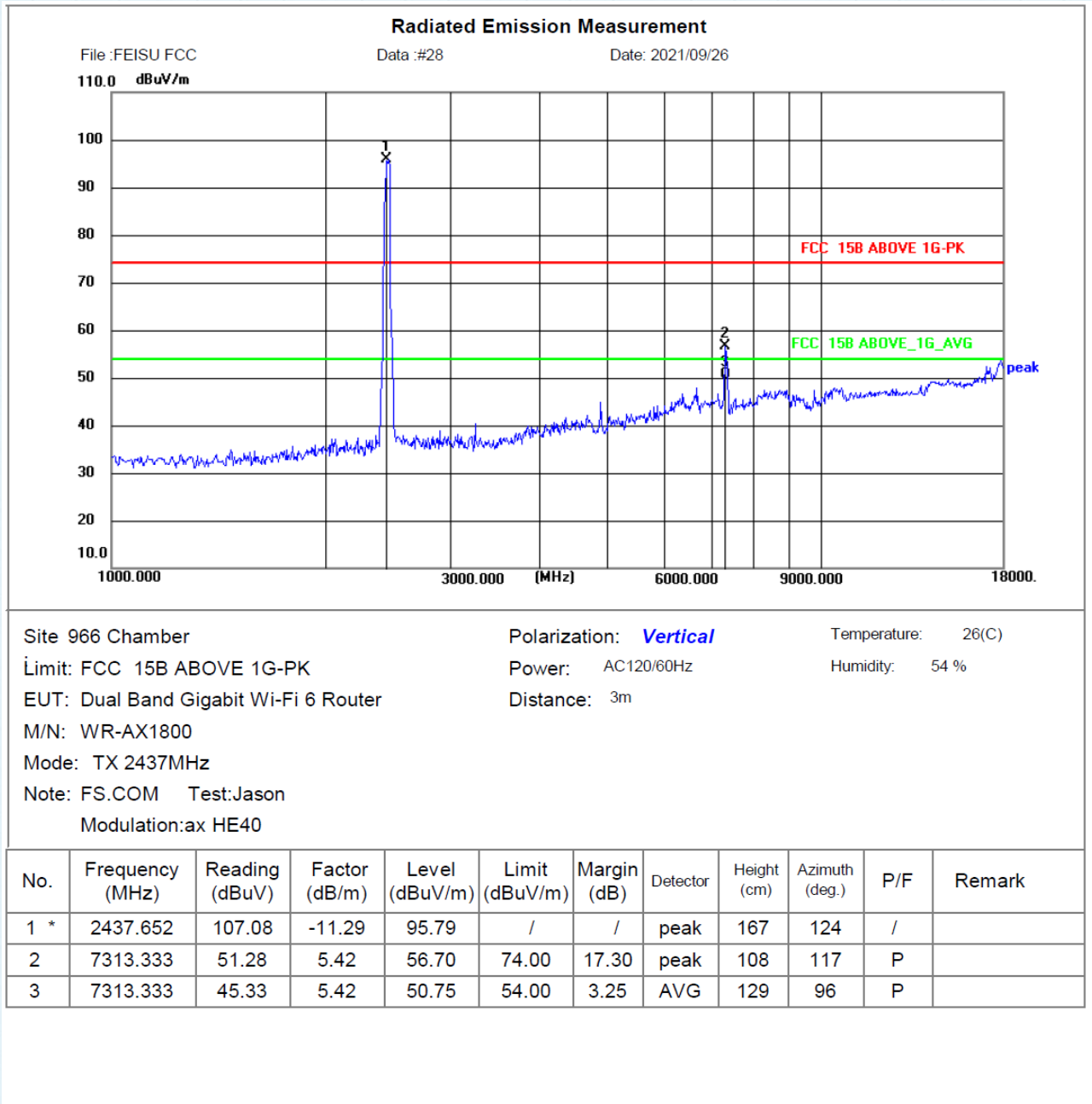
Horizontal: 802.11ax(HE40) TX 2437MHz



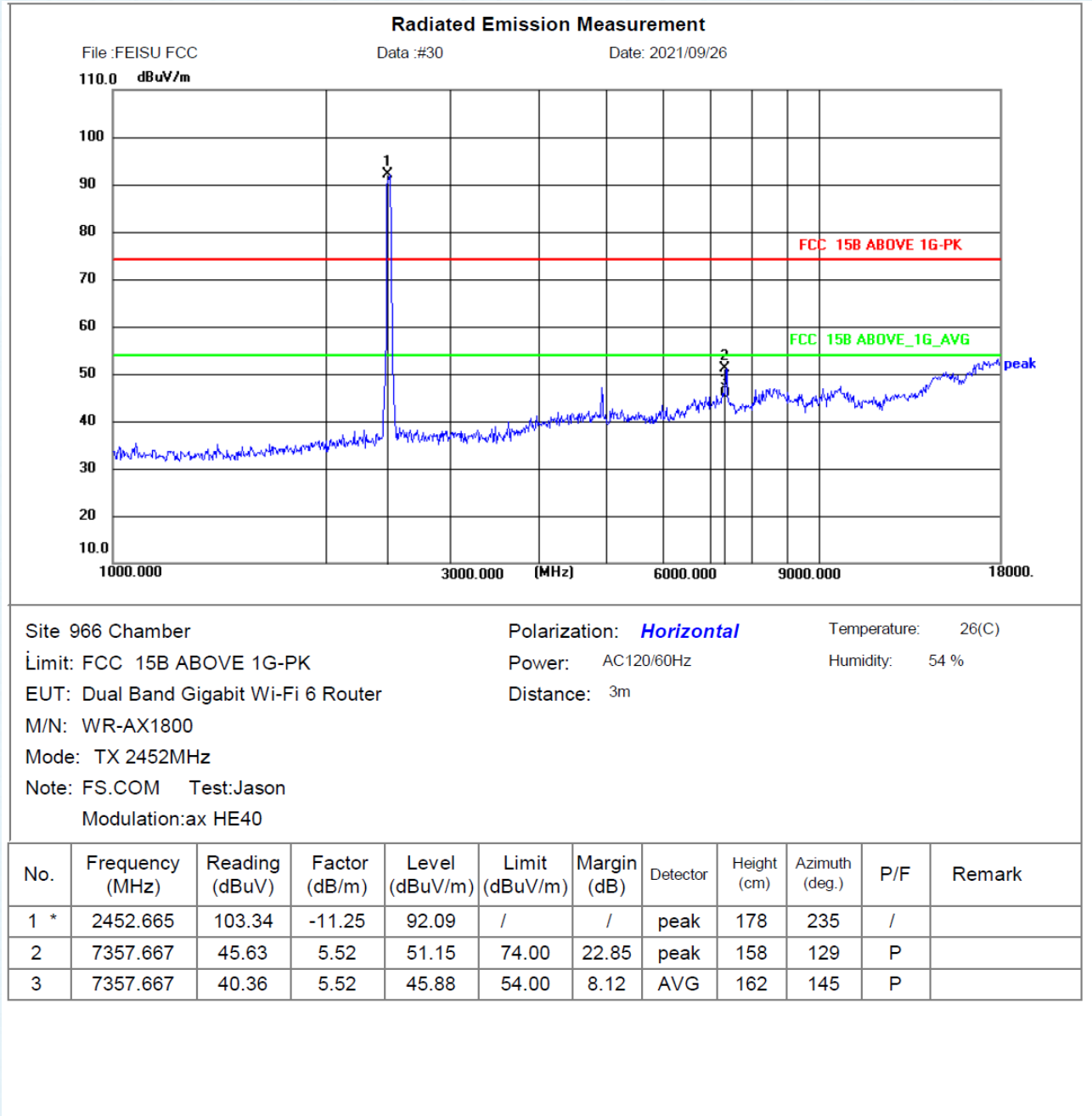
Site 966 Chamber	Polarization: Horizontal	Temperature: 26(C)
Limit: FCC 15B ABOVE 1G-PK	Power: AC120/60Hz	Humidity: 54 %
EUT: Dual Band Gigabit Wi-Fi 6 Router	Distance: 3m	
M/N: WR-AX1800		
Mode: TX 2437MHz		
Note: FS.COM Test:Jason		
Modulation:ax HE40		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	2437.000	104.66	-11.28	93.38	/	/	peak	142	58	/	
2	7284.333	44.70	5.35	50.05	74.00	23.95	peak	125	241	P	
3	7284.333	39.35	5.35	44.70	54.00	9.30	AVG	119	207	P	

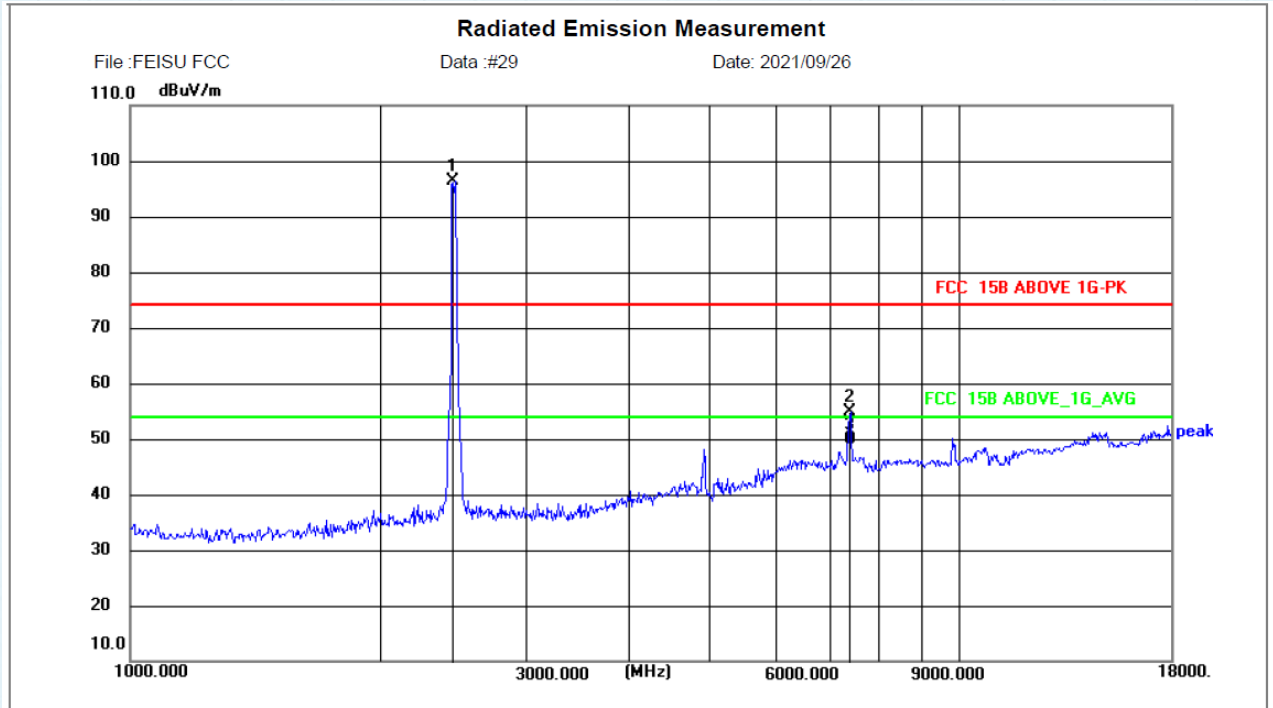
Vertical: 802.11ax(HE40) TX 2437MHz



Horizontal: 802.11ax(HE40) TX 2452MHz



Vertical: 802.11ax(HE40) TX 2462MHz

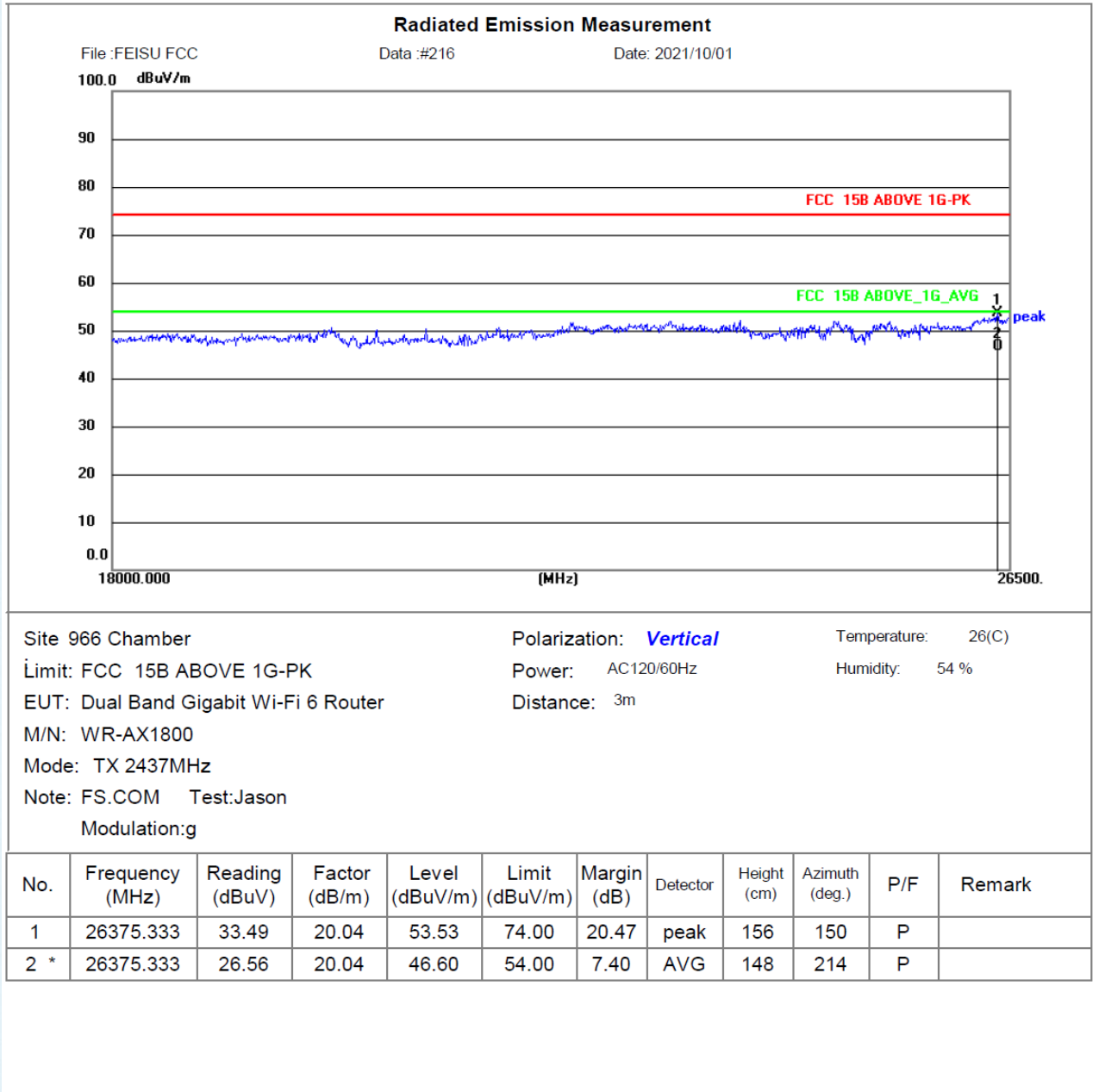


File :FEISU FCC Data :#29 Date: 2021/09/26
 110.0 dBuV/m

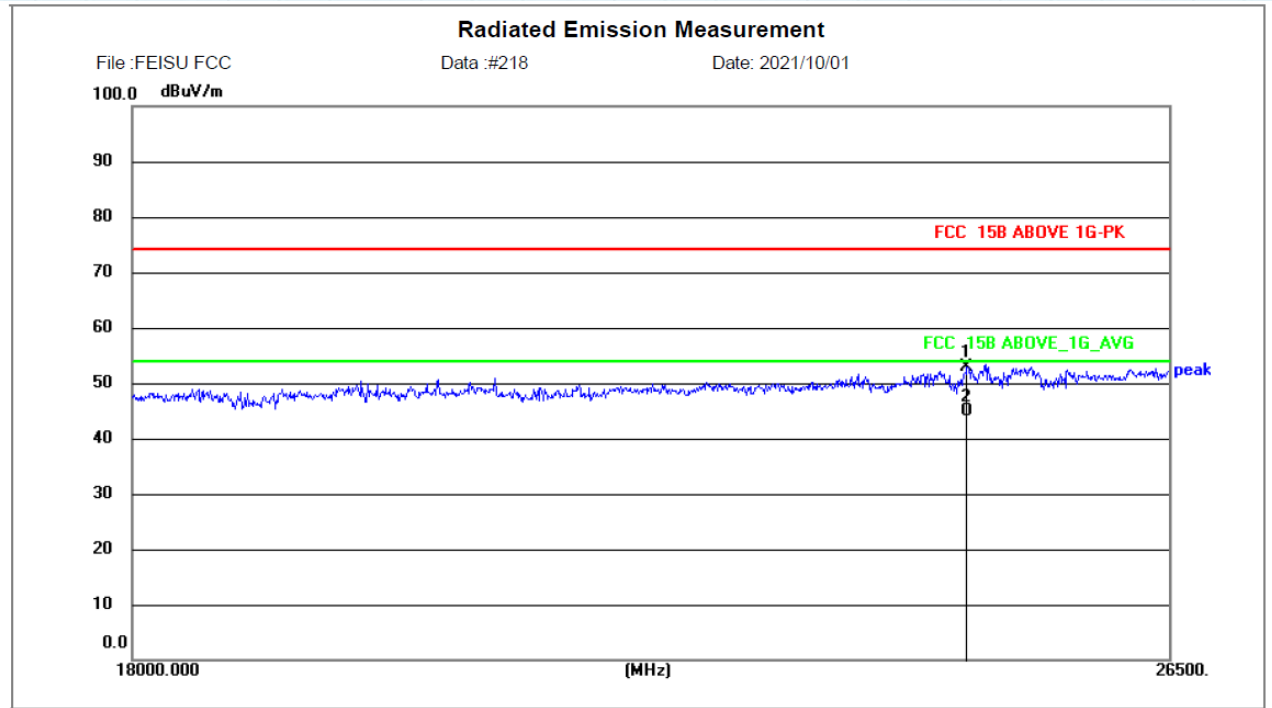
Site 966 Chamber Polarization: **Vertical** Temperature: 26(C)
 Limit: FCC 15B ABOVE 1G-PK Power: AC120/60Hz Humidity: 54 %
 EUT: Dual Band Gigabit Wi-Fi 6 Router Distance: 3m
 M/N: WR-AX1800
 Mode: TX 2452MHz
 Note: FS.COM Test:Jason
 Modulation:ax HE40

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	2452.662	107.65	-11.25	96.40	/	/	peak	153	142	/	
2	7358.674	49.39	5.52	54.91	74.00	19.09	peak	122	131	P	
3	7358.674	44.41	5.52	49.93	54.00	4.07	AVG	115	107	P	

Vertical: 802.11g TX 2437MHz



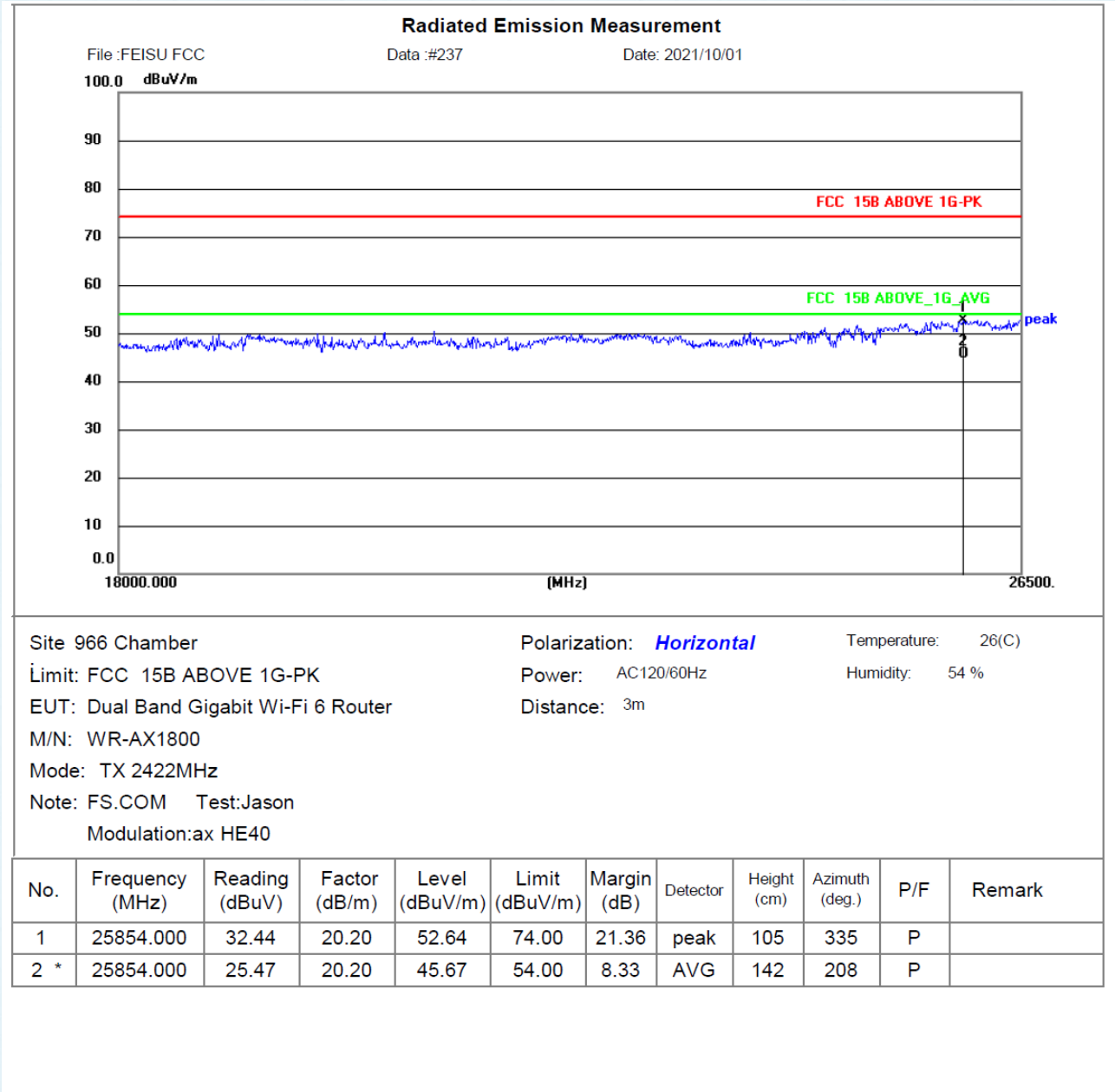
Vertical: 802.11g TX 2462MHz



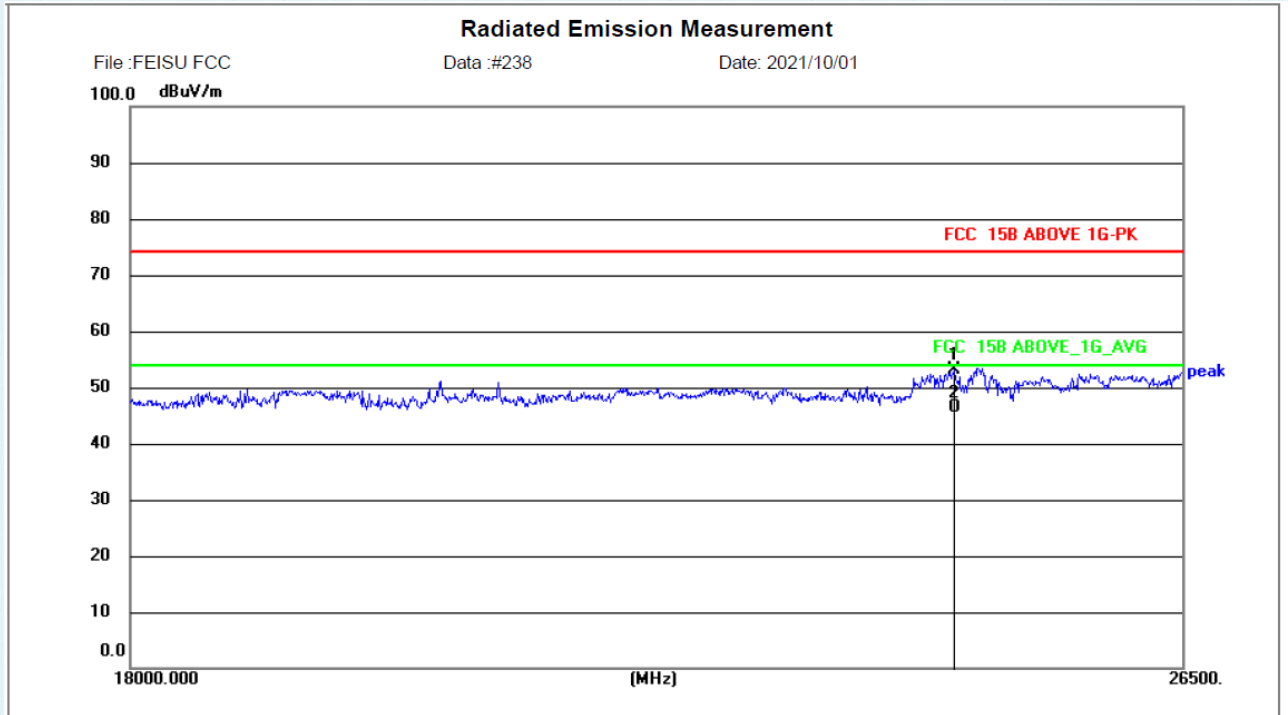
Site 966 Chamber	Polarization: Vertical	Temperature: 26(C)
Limit: FCC 15B ABOVE 1G-PK	Power: AC120/60Hz	Humidity: 54 %
EUT: Dual Band Gigabit Wi-Fi 6 Router	Distance: 3m	
M/N: WR-AX1800		
Mode: TX 2462MHz		
Note: FS.COM Test:Jason		
Modulation:g		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	24581.833	32.31	20.61	52.92	74.00	21.08	peak	153	214	P	
2 *	24581.833	24.18	20.61	44.79	54.00	9.21	AVG	120	103	P	

Horizontal:802.11ax(HE40) TX 2422MHz



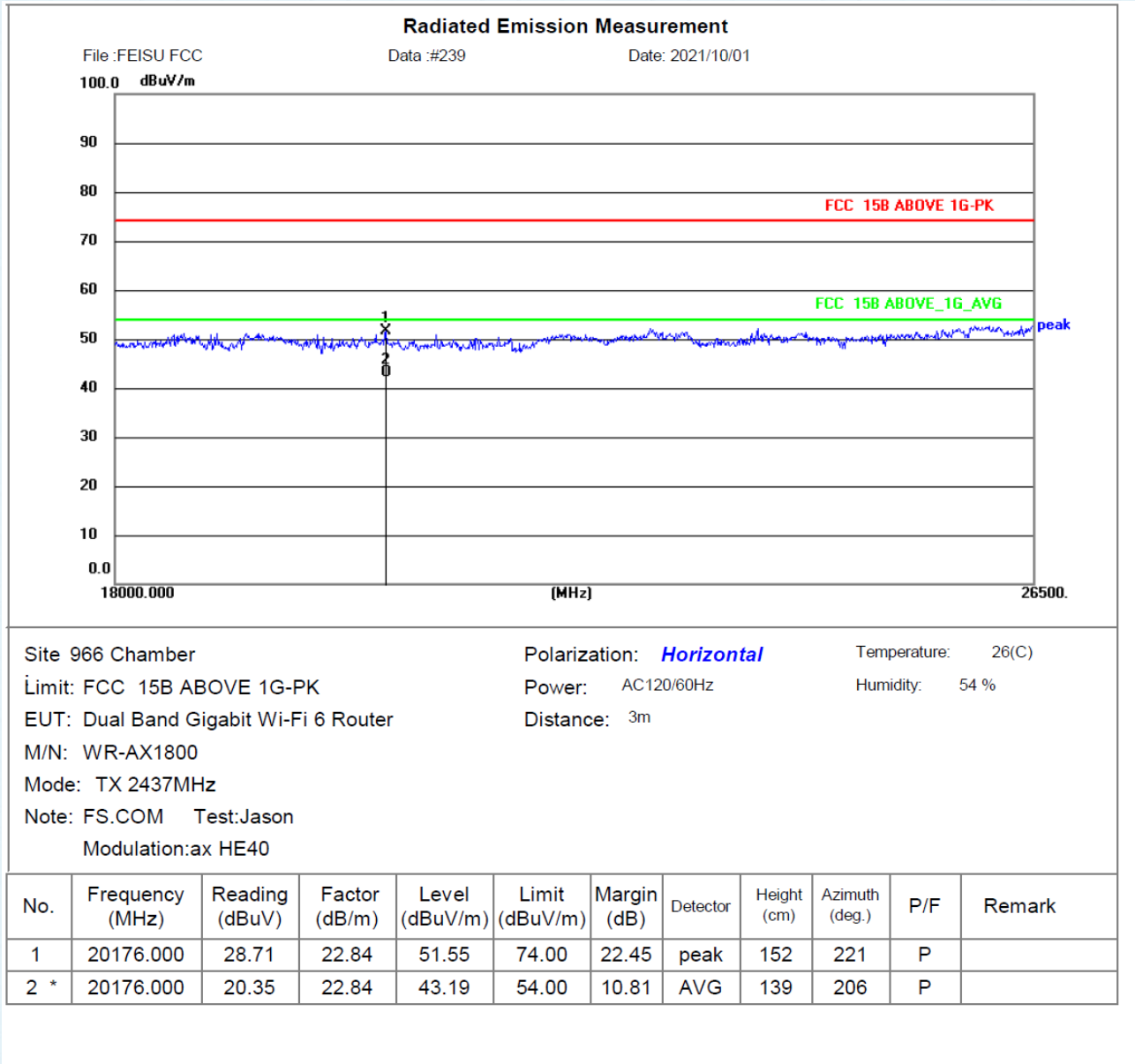
Vertical: 802.11ax(HE40) TX 2422MHz



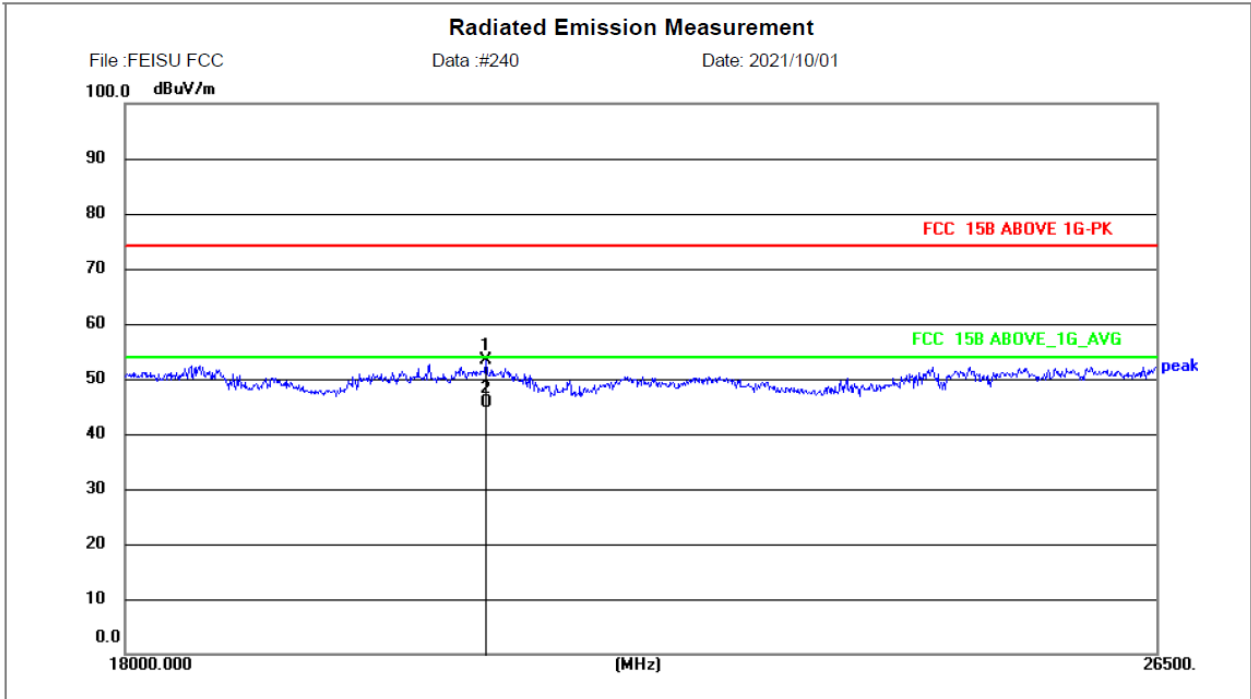
Site: 966 Chamber	Polarization: Vertical	Temperature: 26(C)
Limit: FCC 15B ABOVE 1G-PK	Power: AC120/60Hz	Humidity: 54 %
EUT: Dual Band Gigabit Wi-Fi 6 Router	Distance: 3m	
M/N: WR-AX1800		
Mode: TX 2422MHz		
Note: FS.COM Test:Jason		
Modulation:ax HE40		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	24369.333	32.51	20.67	53.18	74.00	20.82	peak	146	28	P	
2 *	24369.333	25.64	20.67	46.31	54.00	7.69	AVG	138	306	P	

Horizontal: 802.11ax(HE40) TX 2437MHz



Vertical: 802.11ax(HE40) TX 2437MHz



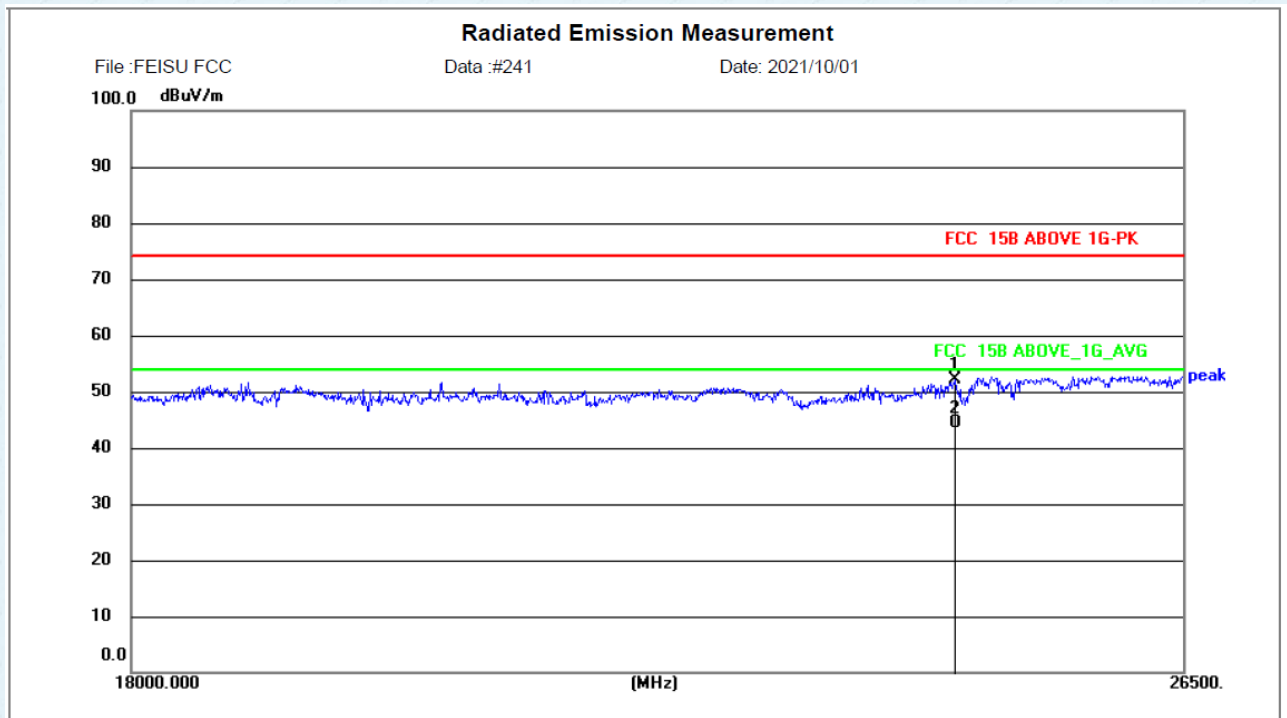
Site: 966 Chamber
 Limit: FCC 15B ABOVE 1G-PK
 EUT: Dual Band Gigabit Wi-Fi 6 Router
 M/N: WR-AX1800
 Mode: TX 2437MHz
 Note: FS.COM Test: Jason
 Modulation: ax HE40

Polarization: **Vertical**
 Power: AC120/60Hz
 Distance: 3m

Temperature: 26(C)
 Humidity: 54 %

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	20612.333	30.48	22.78	53.26	74.00	20.74	peak	123	106	P	
2 *	20612.333	22.89	22.78	45.67	54.00	8.33	AVG	146	138	P	

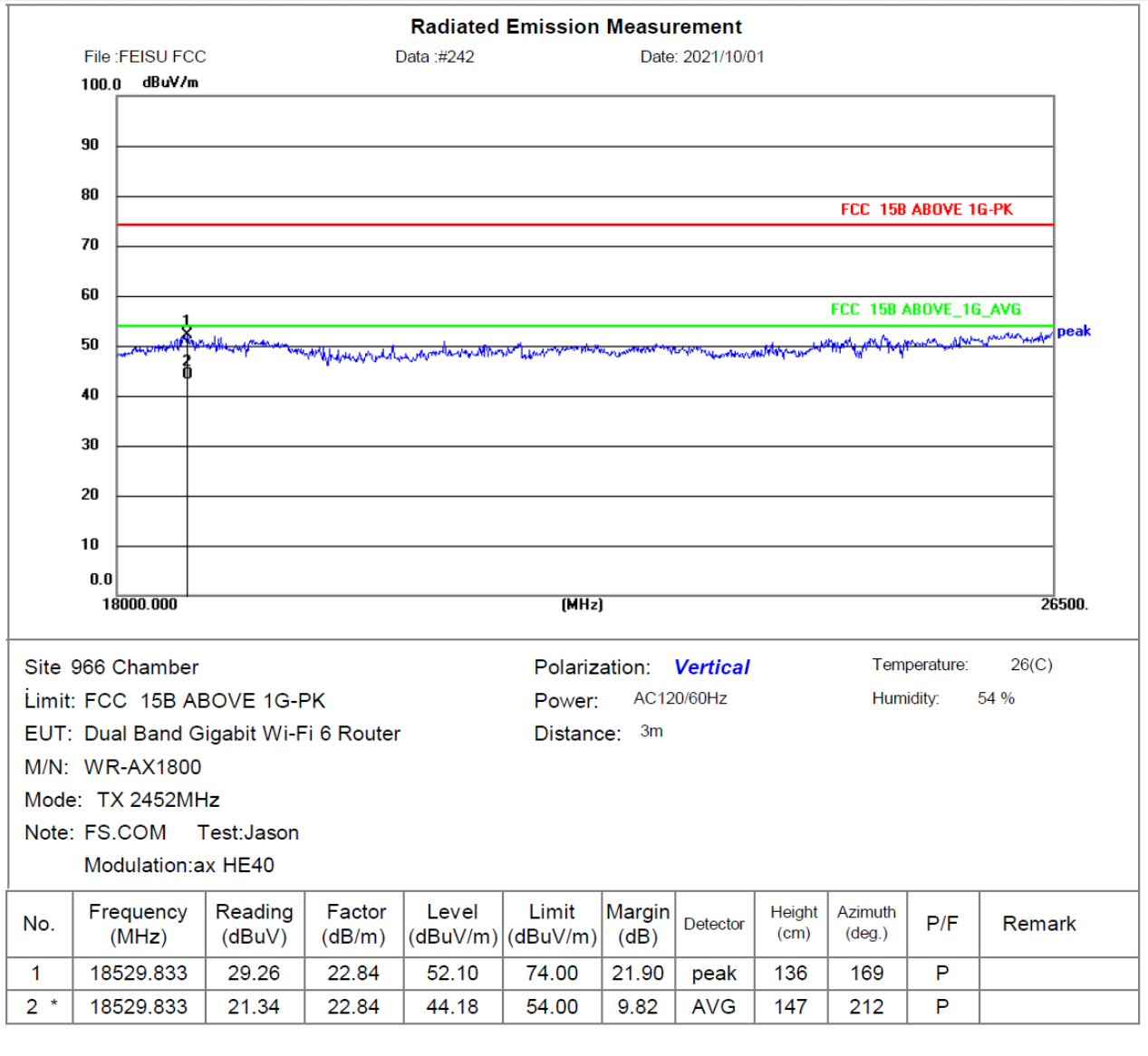
Horizontal: 802.11ax(HE40) TX 2452MHz



Site 966 Chamber	Polarization: Horizontal	Temperature: 26(C)
Limit: FCC 15B ABOVE 1G-PK	Power: AC120/60Hz	Humidity: 54 %
EUT: Dual Band Gigabit Wi-Fi 6 Router	Distance: 3m	
M/N: WR-AX1800		
Mode: TX 2452MHz		
Note: FS.COM Test:Jason		
Modulation:ax HE40		

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	24369.333	31.51	20.67	52.18	74.00	21.82	peak	147	214	P	
2 *	24369.333	23.59	20.67	44.26	54.00	9.74	AVG	152	106	P	

Vertical: 802.11ax(HE40) TX 2462MHz



Remark:

- 1 Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
- 2 “*”, means this data is the too weak instrument of signal is unable to test.

8 Test Setup Photo

Reference to the **appendix I** for details.

9 EUT Constructional Details

Reference to the **appendix II** for details.

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