



FCC RADIO TEST REPORT

Applicant	: Guang Dong E-Vision Technology Co.,Ltd.
Address	: Room 401, No. 16,Konka Road, Feng Gang Town,523695 Dong Guan City, Guang Dong Province, People's Republic of China
Equipment	: Wifi module
Model No.	: WXT2JM2511
Trade Name	: KONKA
FCC ID.	: 2BPYR-WXT2JM2511
Standard	: FCC part 15 Subpart C § 15.247

I HEREBY CERTIFY THAT:

The sample was received on May 08, 2025 and the testing was completed on May 30, 2025 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:



Leevin Li / Supervisor



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History of this test report

Version No.	Report No	Date	Description
Rev.01	25050065-DRFCC01	Jun. 06, 2025	Initial Issue



1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.10:2013

FCC Rules and Regulations Part 15 Subpart C §15.247

FCC Rule	Description of Test	Result
FCC CFR Title 47 Part 15 Subpart C: Section 15.203/15.247 (b)	. Antenna Requirement	Pass
FCC CFR Title 47 Part 15 Subpart C: Section 15.207	. AC Power Line Conducted Emission	Pass
FCC CFR Title 47 Part 15 Subpart C: Section 15.205/15.209;	. Spurious Emission(Radiated)	Pass
FCC CFR Title 47 Part 15 Subpart C: Section 15.247(d);	. Spurious Emission(Conducted)	Pass
FCC CFR Title 47 Part 15 Subpart C: Section 15.247(a)(2);	. 6dB Bandwidth	Pass
FCC CFR Title 47 Part 15 Subpart C: Section 15.247(b);	. Maximum Peak Output Power	Pass
FCC CFR Title 47 Part 15 Subpart C: Section 15.247(e)	. Power Spectral Density	Pass
Note: Deviations Yes ☐ No ☒ *The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement.		



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Equipment	Wifi module
Model Name	WXT2JM2511
Model Discrepancy	N/A
Frequency Range	BT/BLE/ WIFI 2.4G: 2400MHz-2483.5MHz WIFI 5G: 5150MHz-5250MHz, 5250MHz-5350MHz, 5470MHz -5725MHz, 5725MHz -5850MHz
Modulation Type	BT: GFSK, $\pi/4$ -DQPSK, 8DPSK BLE: GFSK 2.4GHz 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM 5GHz 802.11a/n: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM 802.11ax: BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Data Rate	BT: GFSK:1Mbps, $\pi/4$ -DQPSK: 2Mbps, 8DPSK:3Mbps BLE: GFSK: 1Mbps, 2Mbps, 125kbps, 500kbps WIFI 2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0-MCS15, HT20/HT40 802.11ax: MCS0-MCS11, HE20/HE40 WIFI 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0-MCS15, HT20/HT40 802.11ac: MCS0-MCS9, VHT20/40/80 802.11ax: MCS0-MCS11, HE20/HE40/HE80
Working Temperature	0°C to 60°C
EUT Power Rating:	5V±10%

Note:

1. EUT support Client mode without radar detection.
2. The EUT not support TPC
3. 802.11ax only support full RU.
4. For more details, please refer to the User's manual of the EUT.



2.2 Carrier Frequency of Channels

802.11b, 802.11g, 802.11n HT 20, 802.11ax HE20 (2412MHz~2462MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	*11	2462
*06	2437	---	---

802.11n HT40, 802.11ax HE40 (2422MHz~2452MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
*03	2422	*09	2452
04	2427	---	---
05	2432	---	---
*06	2437	---	---

Note: Channels remarked * are selected to perform test.



2.3 Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.10.
- The complete test system included support units and EUT for RF test.
- An executive program, "QATool_Dbg.exe (Ver.: 0.0.2.39)" under Windows 10 system was executed to transmit and receive data via WLAN.
- The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	802.11b for 120V
2	802.11g for 120V
3	802.11n HT20 for 120V
4	802.11n HT40 for 120V
5	802.11ax HE20 for 120V
6	802.11ax HE40 for 120V
7	802.11n HT20 for 240V
caused "Test Mode 6 at CH1:2422" generated the worst case, it was reported as the final data.	
Radiated emission (Below 1GHz)	
Test Mode	Operating Description
1	802.11b
2	802.11g
3	802.11n HT20
4	802.11n HT40
5	802.11ax HE20
6	802.11ax HE40
caused "Test Mode 6 at CH1:2422" generated the worst case, it was reported as the final data.	
Radiated emission (1GHz ~ 25GHz) for 1TX	
1	802.11b (1Mbps)
2	802.11g (6Mbps)
caused "Test Mode 1~2 for Ant B" generated the worst case, it was reported as the final data.	
Radiated emission (1GHz ~ 25GHz) for 2TX	
1	802.11n HT20 (6.5Mbps)
2	802.11n HT40 (13.5Mbps)
3	802.11ax HE20 (7.3Mbps)
4	802.11ax HE40 (14.6Mbps)
caused "Test Mode 1~4" generated the worst case, it was reported as the final data.	

Modulation Type	TX CONFIGURATION
802.11b	1TX
802.11g	1TX
802.11n HT20	2TX
802.11n HT40	2TX
802.11ax HE20	2TX
802.11ax HE40	2TX



2.4 Power Parameter Value of the test software

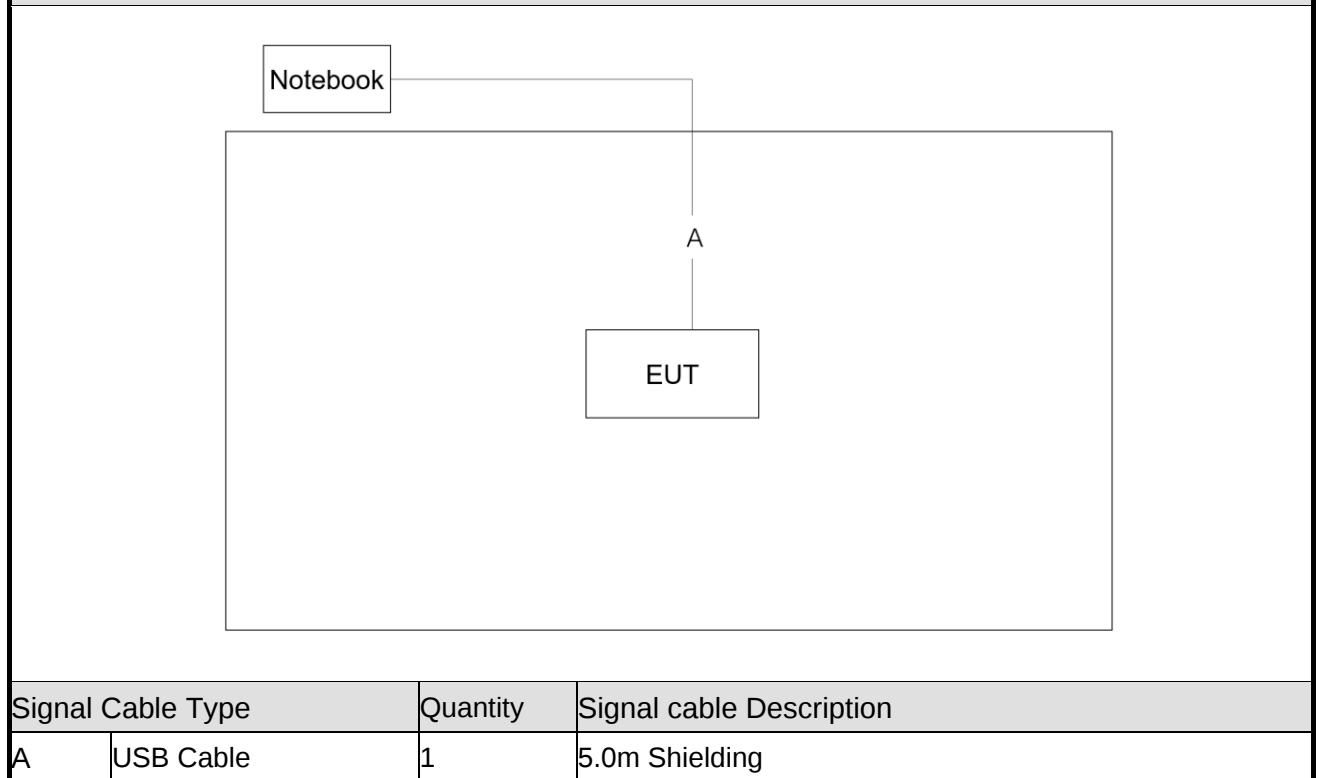
Mode	Frequency (MHz)	Setting level			
		1TX		2TX	
		Ant 1	Ant 2	Ant 1	Ant 2
802.11b	2412	15	15	N/A	N/A
	2437	15	15	N/A	N/A
	2462	15	15	N/A	N/A
802.11g	2412	15	15	N/A	N/A
	2437	15	15	N/A	N/A
	2462	15	15	N/A	N/A
802.11n (20MHz)	2412	N/A	N/A	13	13
	2437	N/A	N/A	13	13
	2462	N/A	N/A	13	13
802.11n (40MHz)	2422	N/A	N/A	12	12
	2437	N/A	N/A	12	12
	2452	N/A	N/A	12	12
802.11ax (20MHz)	2412	N/A	N/A	13	13
	2437	N/A	N/A	13	13
	2462	N/A	N/A	13	13
802.11ax (40MHz)	2422	N/A	N/A	12	12
	2437	N/A	N/A	12	12
	2452	N/A	N/A	12	12



2.5 Description of Test System

Product	Manufacturer	Model No.	Serial No.	Power Cord
1 Notebook	SONY	PCG-71811P	27544574 7000251	Non-Shielded, 1.8m

Connection Diagram





2.6 General Information of Test

Test Site	CerpPASS Technology Corporation(CerpPASS Laboratory) Address: Room 102, No. 5, Xing'an Road, Chang'an Town, Dongguan City, Guangdong Province Tel: +86-769-8547-1212 Fax: +86-769-8547-1912
FCC Designation No.:	CN1288
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 9kHz to 25,000MHz
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.

Test Item	Test Site	Test period	Environmental Conditions	Tested By
RF Conducted	RFCON01-DG	2025/05/26~2025/05/27	23~24℃ / 56~58%	Amos Zhang
Radiated Emissions	3M01-DG	2025/05/16~2025/05/26	22~23℃ / 50~55%	Amos Zhang
AC Power Line Conducted Emission	CON02-DG	2025/05/30	23℃ / 51%	Amos Zhang

2.7 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)).

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±2.52dB
Radiated Spurious Emission(9KHz~30MHz)	±3.93dB
Radiated Spurious Emission(30MHz~1GHz)	±4.23dB
Radiated Spurious Emission(1GHz~18GHz)	±5.64dB
Radiated Spurious Emission(18GHz~40GHz)	±4.39dB
6dB Bandwidth&20dB Bandwidth	±5.2%
Occupied Bandwidth	±4.5%
Peak Output Power(Conducted Power Meter)	±0.90dB
Power Spectral Density	±0.89dB
Dwell Time / Deactivation Time	±3.5%



3. Test Equipment and Ancillaries Used for Tests

AC Power Line Conducted Emission					
Test Site	CON02-DG				
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date.
ESR-EMI TEST RECEIYER	R&S	ESR3	102728	2024/08/01	2025/07/31
Two-Line V-Network	R&S	ENV216	100325	2024/08/01	2025/07/31
LISN	SCHWARZBECK	NSLK 8127	8127749	2024/08/01	2025/07/31
Cable	Aoda	RG214	Cable-07	2024/08/01	2025/07/31
Temperature/Humidity Meter	GEMLEAD	STH200A	N/A	2024/08/02	2025/08/01
Software	AUDIX	E3	Version: 8.14806b	N/A	N/A
Test Site	Yiheng	AC-DG-005	N/A	2023/05/06	2026/05/05

Radiated Emissions					
Test Site	3M01-DG				
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
EMI Test Receiver	R&S	ESCI	101183	2024/12/30	2025/12/29
Amplifier	EMCI	EMC330	980082	2024/12/30	2025/12/29
Loop Antenna	R&S	HFH2-Z2	100150	2024/01/03	2026/01/02
Bilog Antenna	Sunol Science	JB1	A072414-3	2023/06/18	2025/06/17
Preamplifier	Agilent	8449B	3008A02342	2024/08/01	2025/07/31
Preamplifier	COM-POWER	PA-840	711885	2025/01/02	2026/01/01
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120 D	9120D-619	2024/01/03	2026/01/02
Standard Gain Horn Antenna	TRC	HA-2640	18050	2024/01/03	2026/01/02
Standard Gain Horn Antenna	TRC	HA-1726	18051	2024/01/03	2026/01/02
FSQ Signal Analyzer	R&S	FSQ40	200012	2024/12/31	2025/12/30
Cable	EMCI	EM104-NM SM-8.5M	Cable-03	2024/12/30	2025/12/29
Cable	Jiuzhoubona	T-SMA	SMA48AL-70 00	2024/12/30	2025/12/29
Cable	CH-CoDesigh	CCXA81-S MAMNM-1 M	Cable-05	2024/12/30	2025/12/29
Cable	CH-CoDesigh	CCXA40-2. 92-2.92-1M	21071954	2024/08/02	2025/08/01
Cable	CH-CoDesigh	CCX40-2.92 M-2.92M-9 M	21070892	2024/08/02	2025/08/01
Temperature/ Humidity Meter	GEMLEAD	STH200A	N/A	2024/08/02	2025/08/01
Software	AUDIX	E3	Version: 8.14806b	N/A	N/A
Test Site	Yiheng	AC-DG-001	N/A	2023/05/08	2026/05/07



RF Conducted					
Test Site	RFCON01-DG				
Instrument/Ancillary	Manufacturer	Model No.	Serial No.	Calibration Date	Valid Date
MXA Signal Analyzer	KEYSIGHT	N9020A	US46220290	2024/12/30	2025/12/29
EXA Signal Analyzer	KEYSIGHT	N9010A	MY53400169	2024/12/30	2025/12/29
ESG VECTOR SIGNAL GENERATOR	Agilent	E4438C	MY45092582	2024/12/30	2025/12/29
MXG VECTOR SIGNAL GENERATOR	Agilent	N5182B	MY53050127	2024/12/30	2025/12/29
USB Wideband Power Sensor	Boonton	55006	9778	2024/08/02	2025/08/01
Temperature/Humidity Meter	mingle	ETH529	N/A	2025/01/02	2026/01/01



4. Antenna Requirements

4.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2 Antenna Construction and Directional Gain

WIFI 2.4G:

Antenna Type	PIFA Antenna
Antenna Gain	Antenna A: 4.98dBi Antenna B: 4.38dBi

(Non-Beamforming)

2400MHz-2483.5MHz

For 2TX

For PSD directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + \dots + 10^{GN/20})^2 / NANT]$
= 7.70(dBi)



5. Test of AC Power Line Conducted Emission

5.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.10-2013. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 6.2.2. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

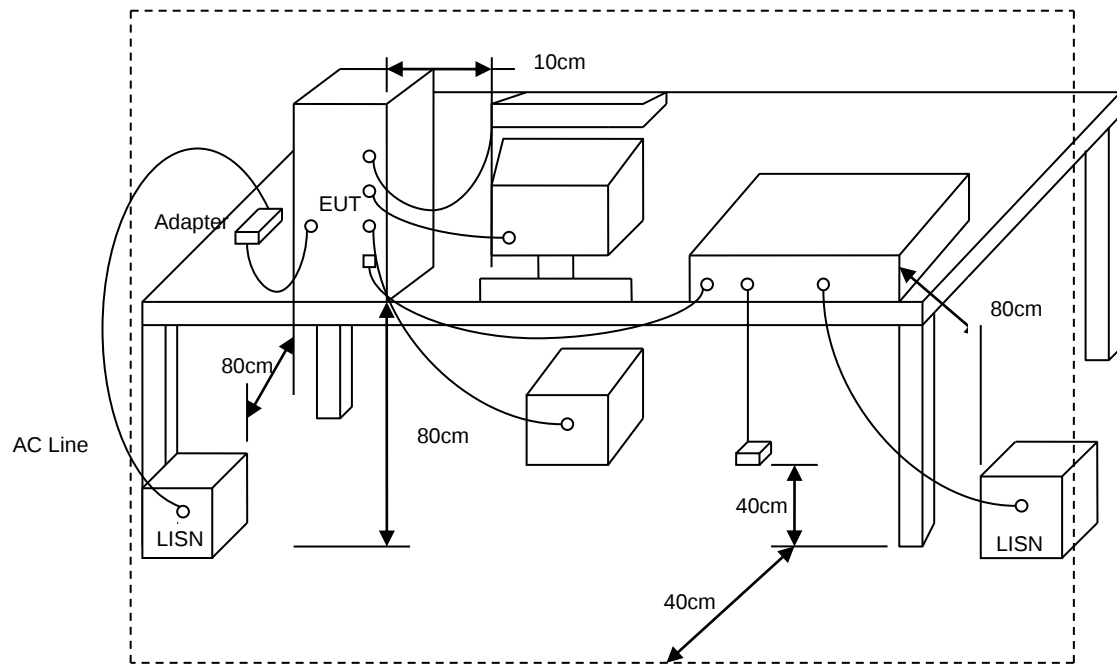
*Decreases with the logarithm of the frequency.

5.2 Test Procedures

The EUT was setup according to ANSI C63.10, 2013 and tested according to DTS test procedure of Oct 2014 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs) Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

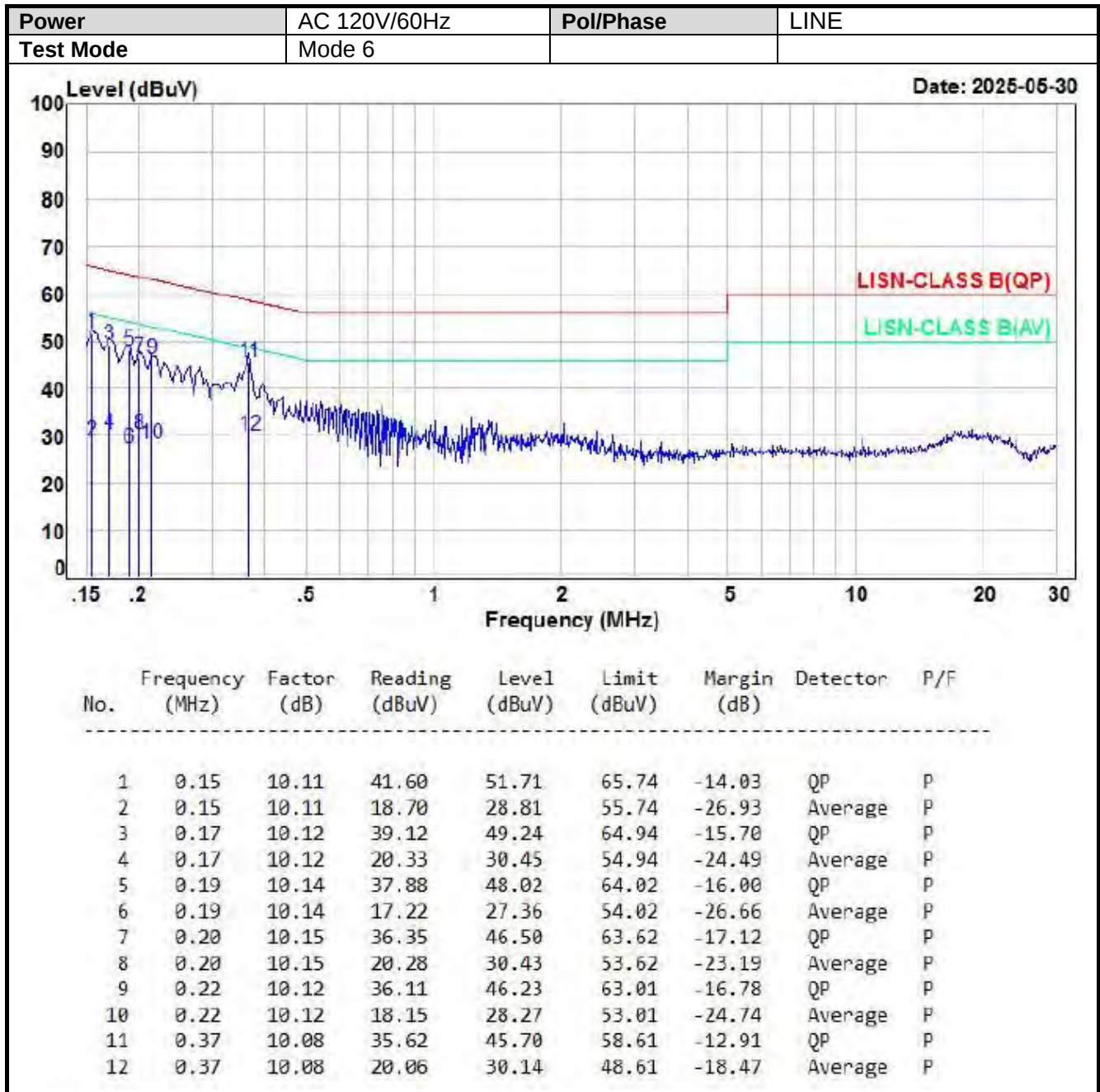


5.3 Typical Test Setup





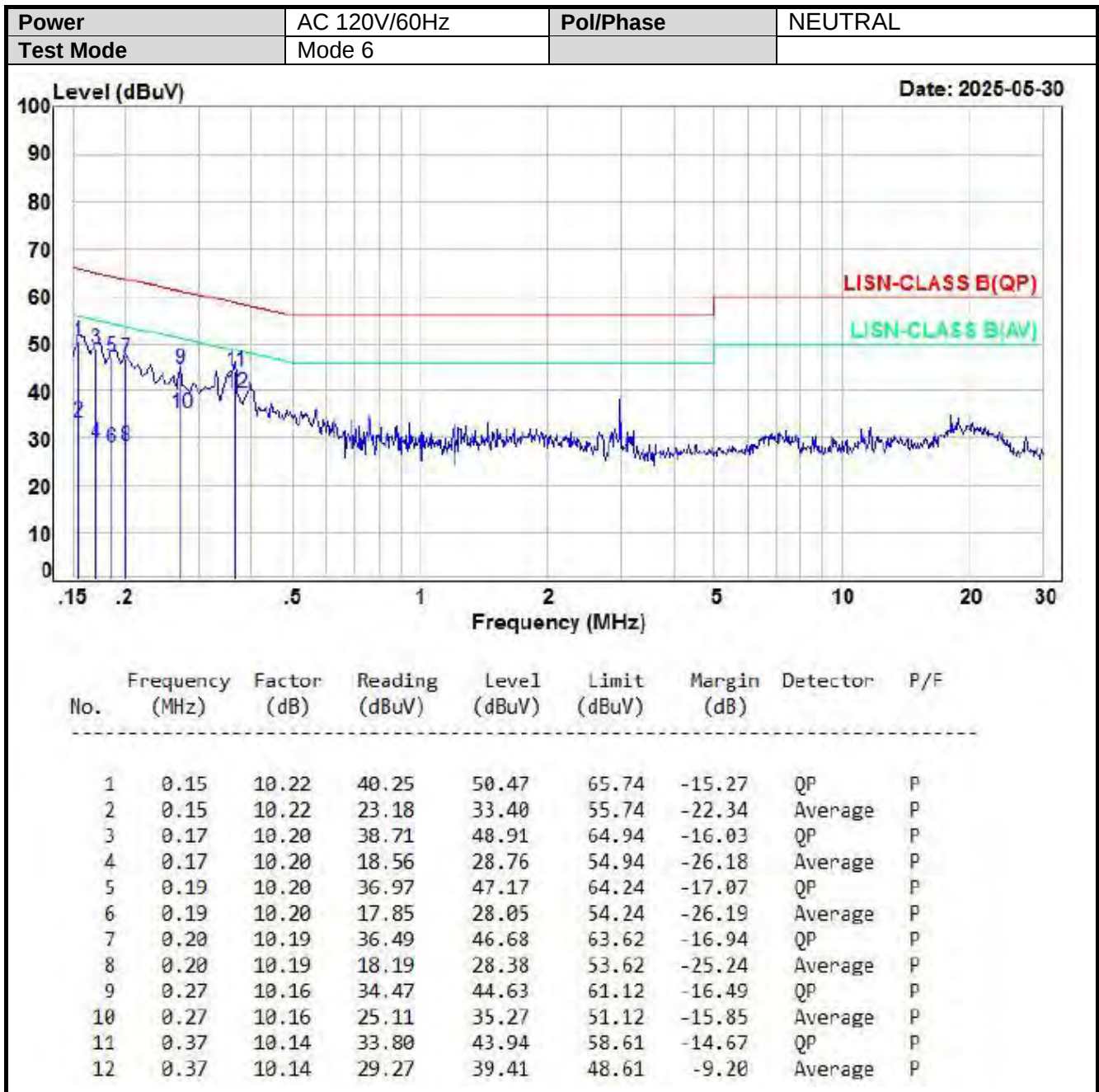
5.4 Test Result and Data



Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or Current Probe) Factor + Cable Loss + Attenuator



Note: Level = Reading + Factor

Margin = Level – Limit

Factor = (LISN or ISN or PLC or Current Probe) Factor + Cable Loss + Attenuator



6. Test of Spurious Emission (Radiated)

6.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

FREQUENCIES(MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE(meters)
0.009~0.490	2400/F(kHz)	300
0.490~1.705	24000/F(kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

6.2 Test Procedures

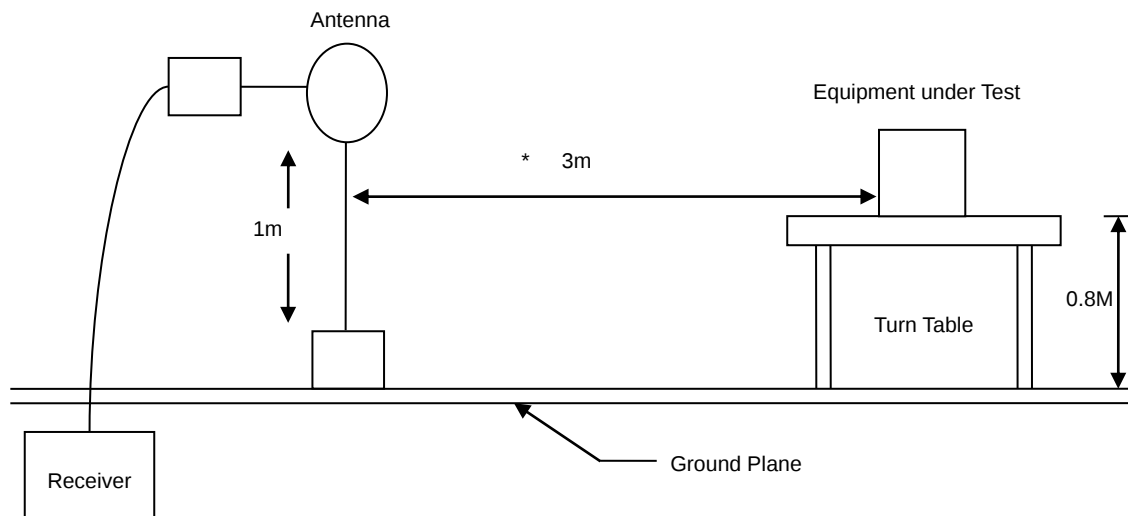
- The EUT was placed on a rotatable table top 0.8 meter for frequency below 1GHz and 1.5meter for frequency above 1GHz above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than AVG limit (that means the emission level in peak mode also complies with the limit in AVG mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in AVG mode again and reported.
- "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.
Note: The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions sch that emissions from the EUT are maximized.

(X-AXIS is the worst.)

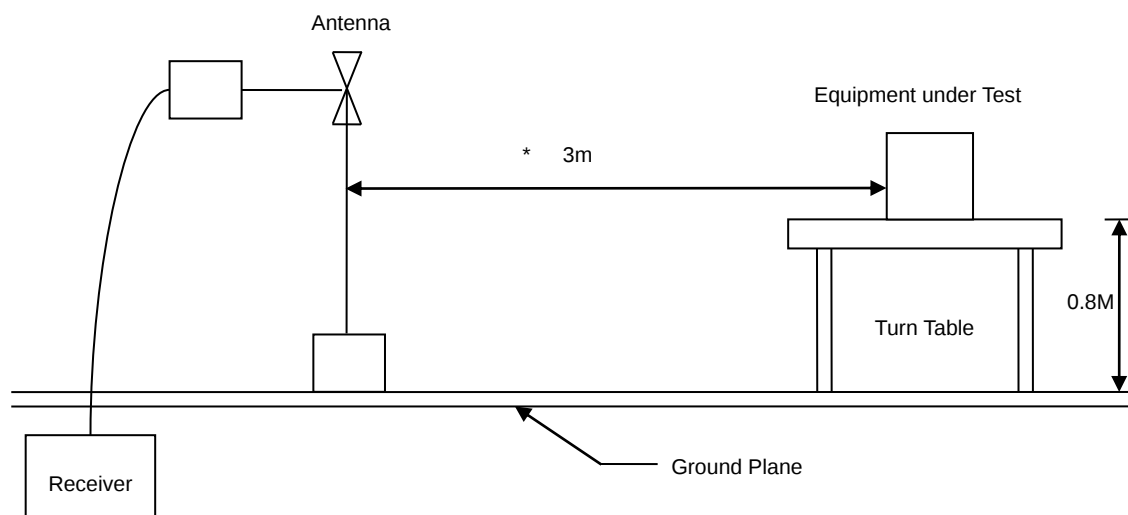


6.3 Typical Test Setup

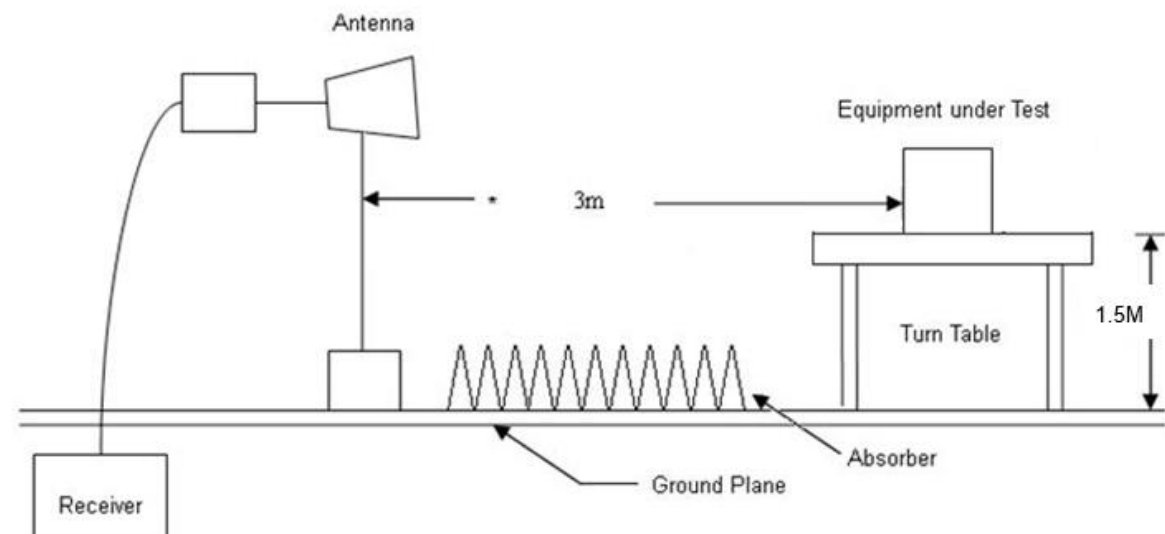
Below 30MHz test setup



30MHz- 1GHz Test Setup



Above 1GHz Test Setup

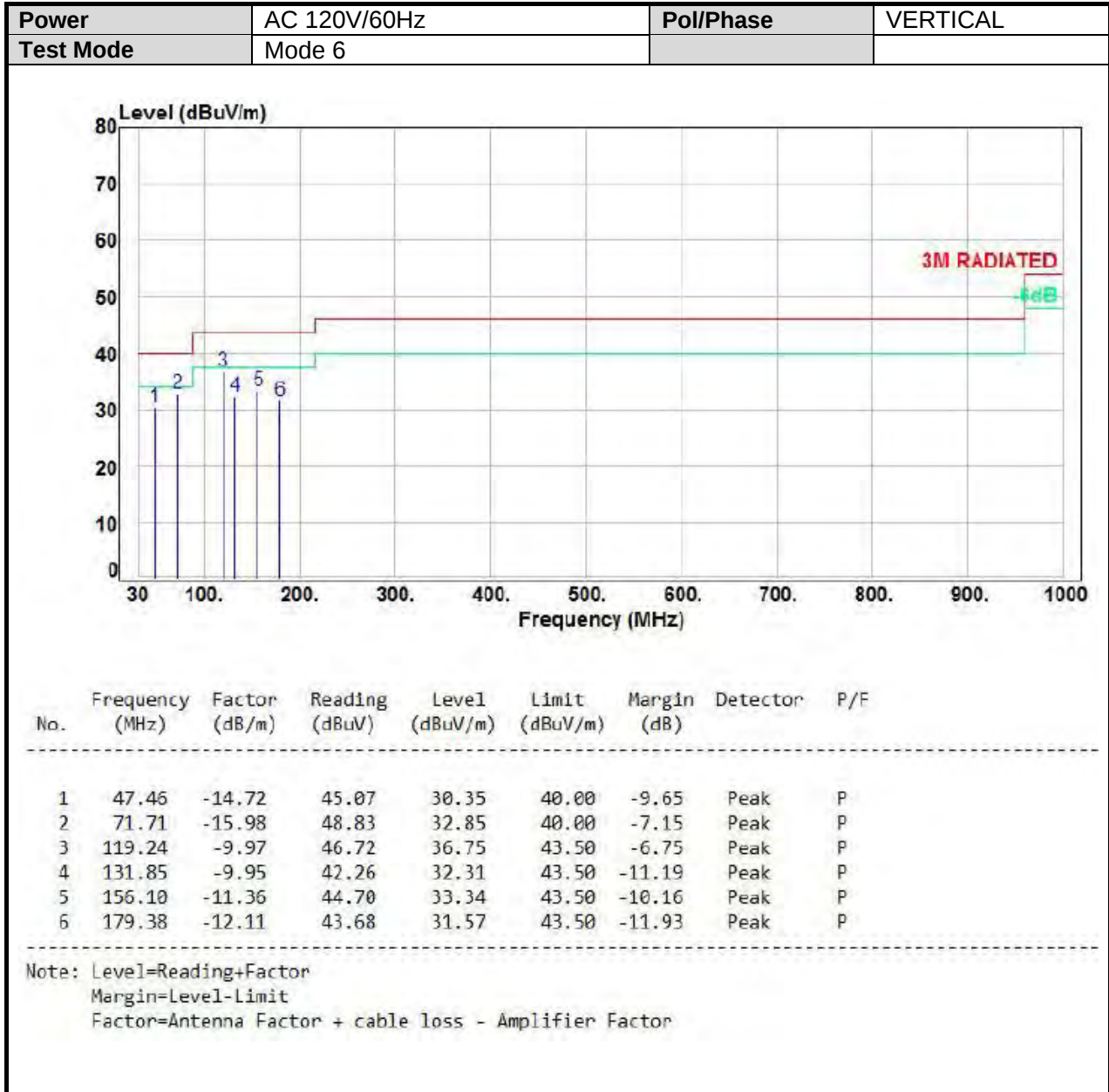




6.4 Test Result and Data (9KHz ~ 30MHz)

The 9kHz-30MHz spurious emission is under limit 20dB more.

6.5 Test Result and Data (30MHz ~ 1GHz)

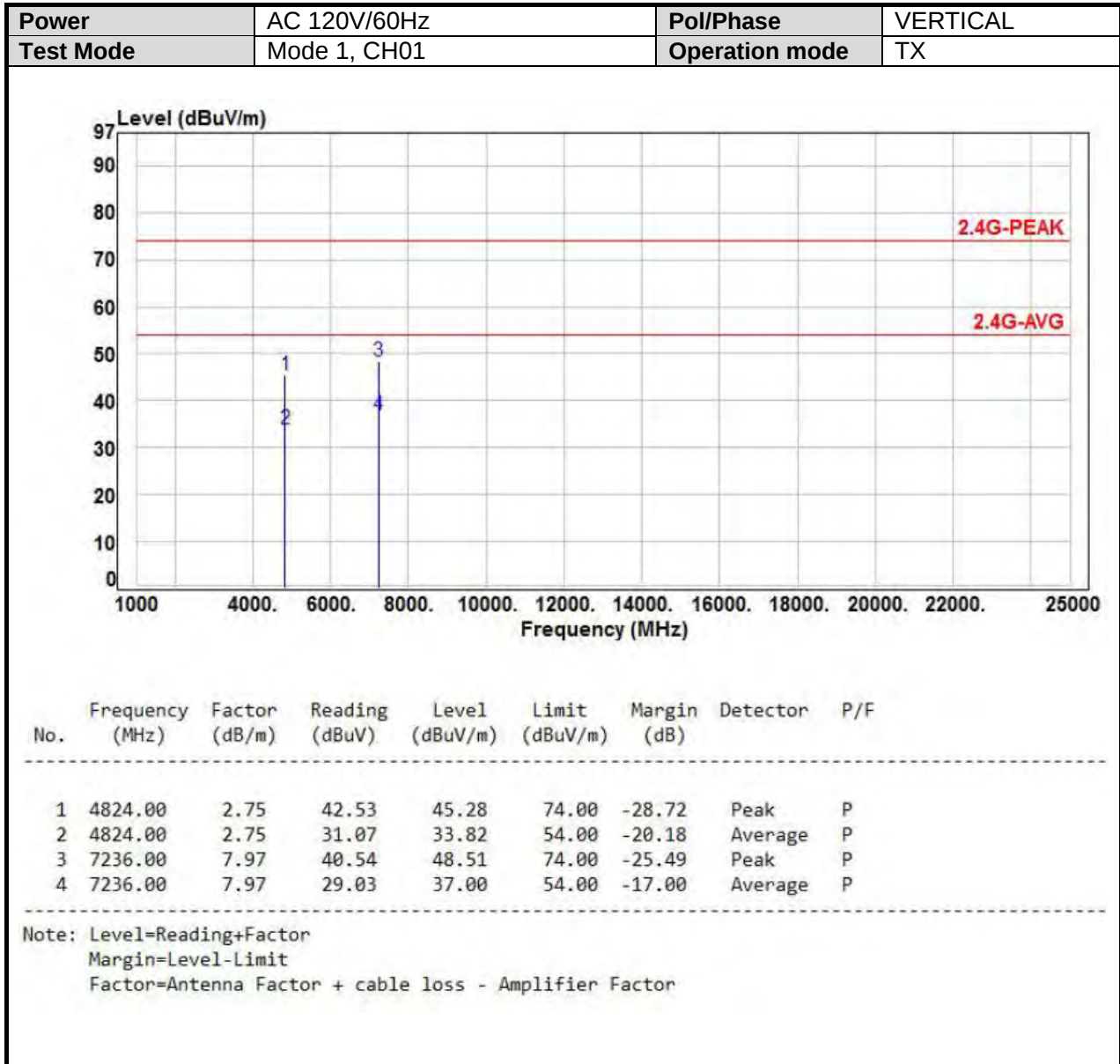


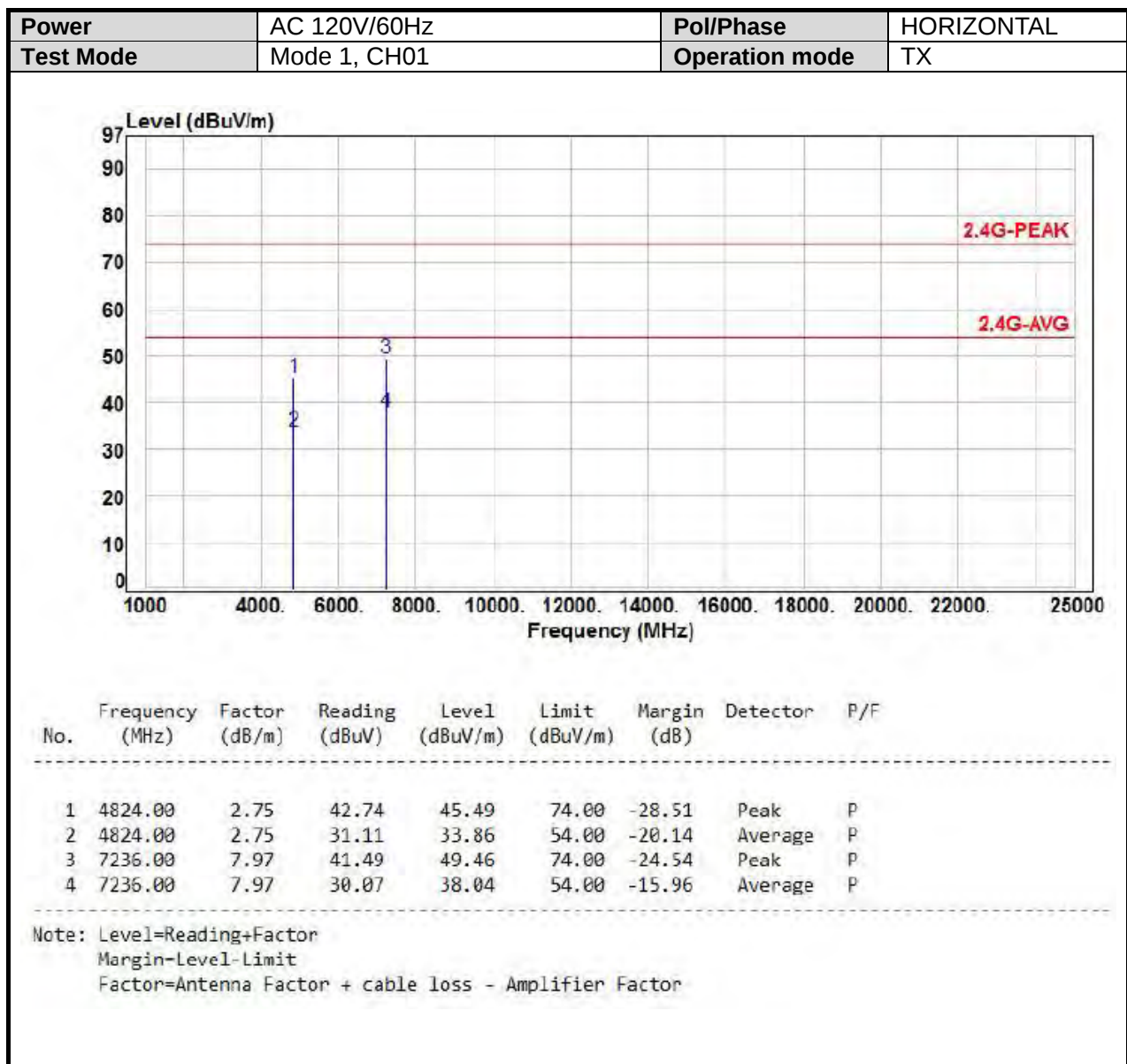


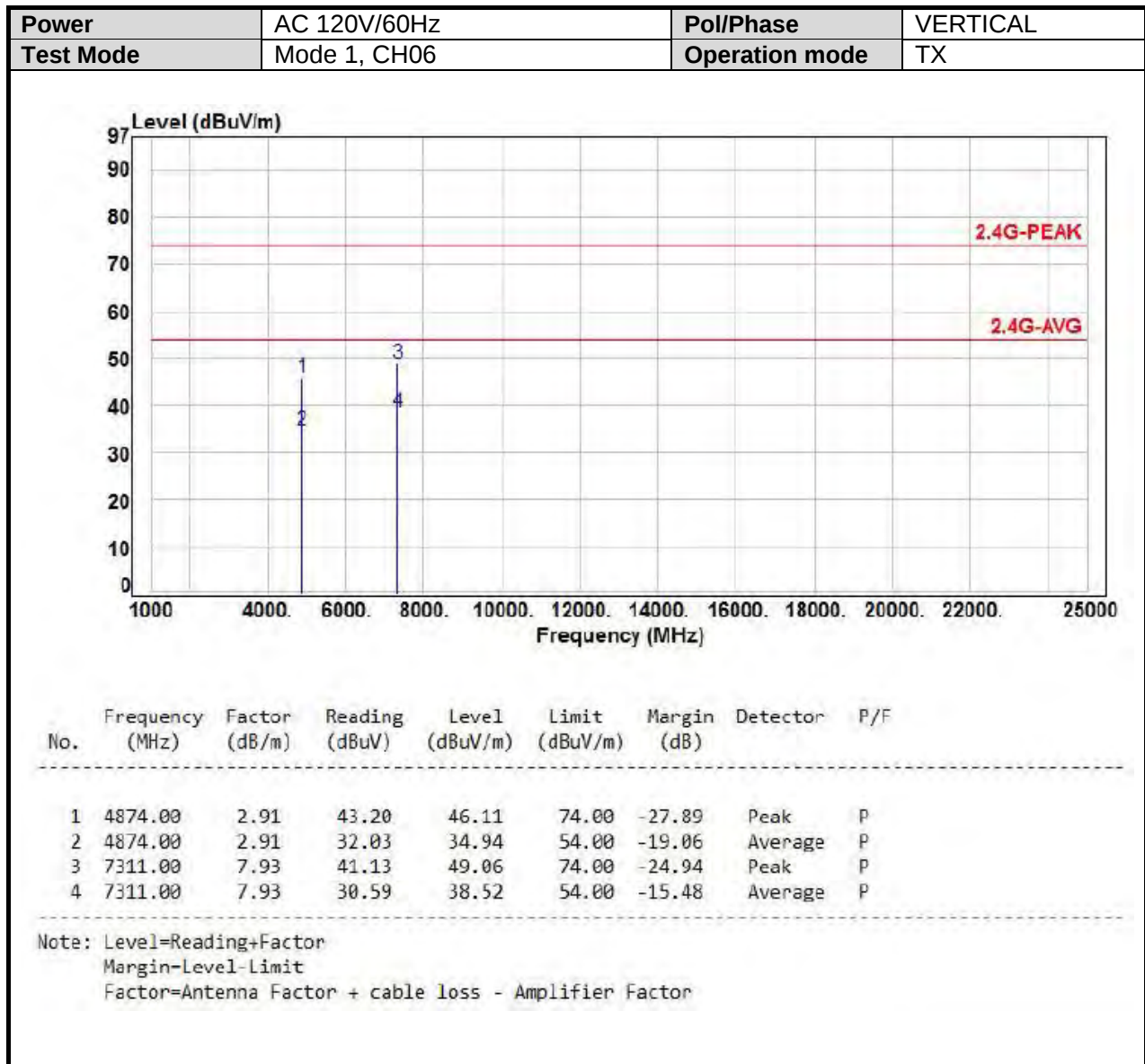


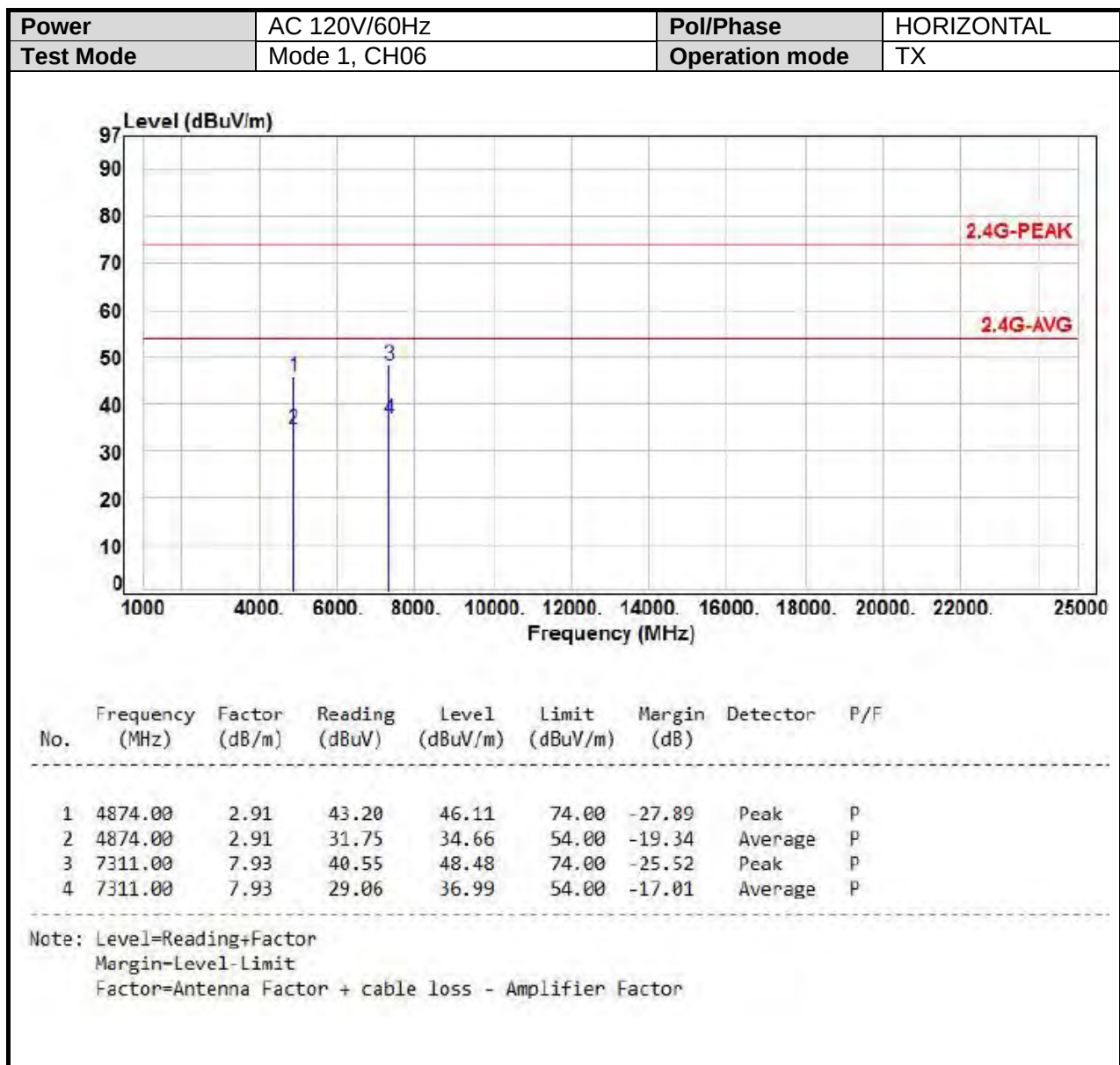
6.6 Test Result and Data (1GHz ~ 25GHz)

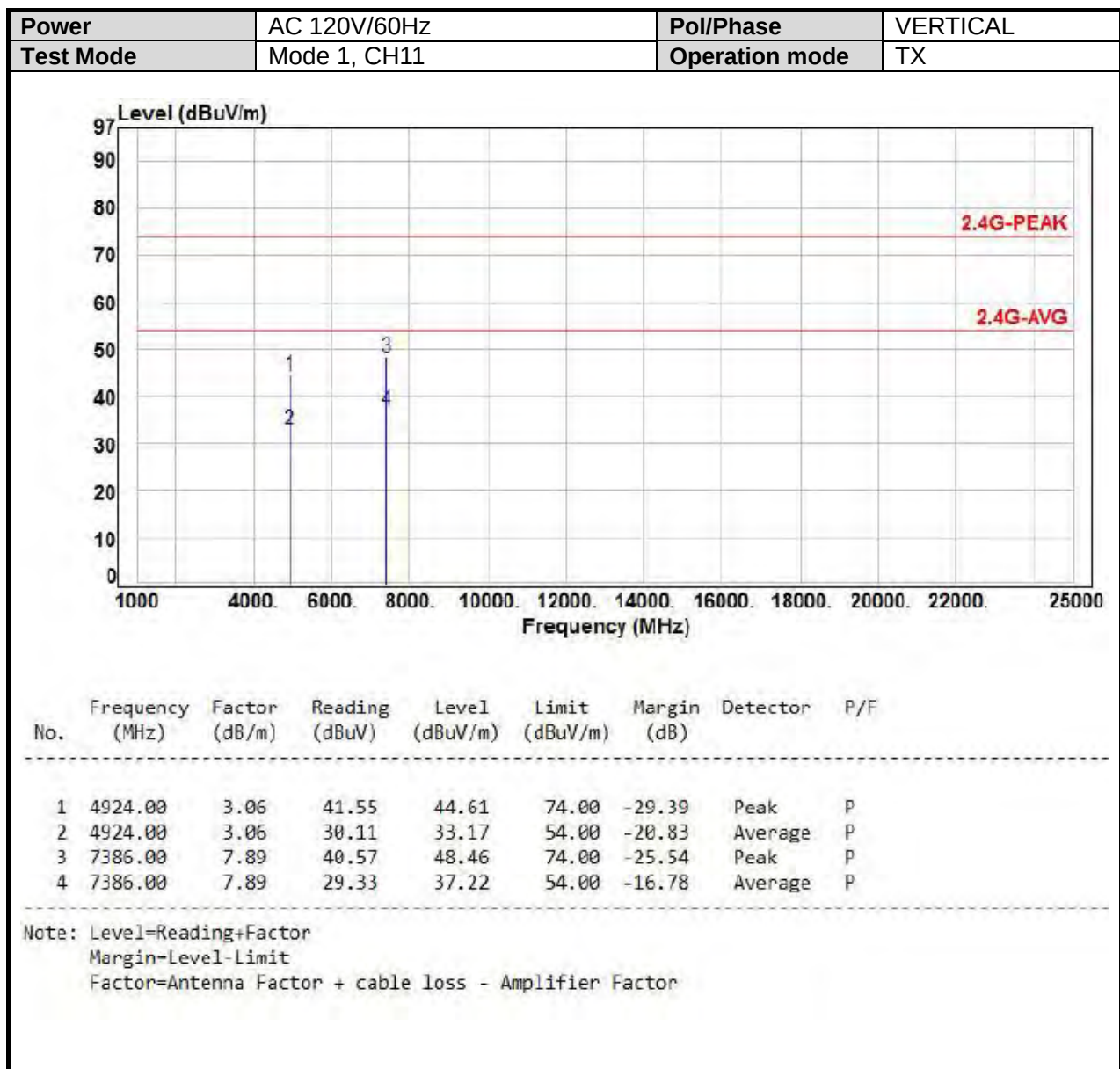
SISO-1TX-Ant B

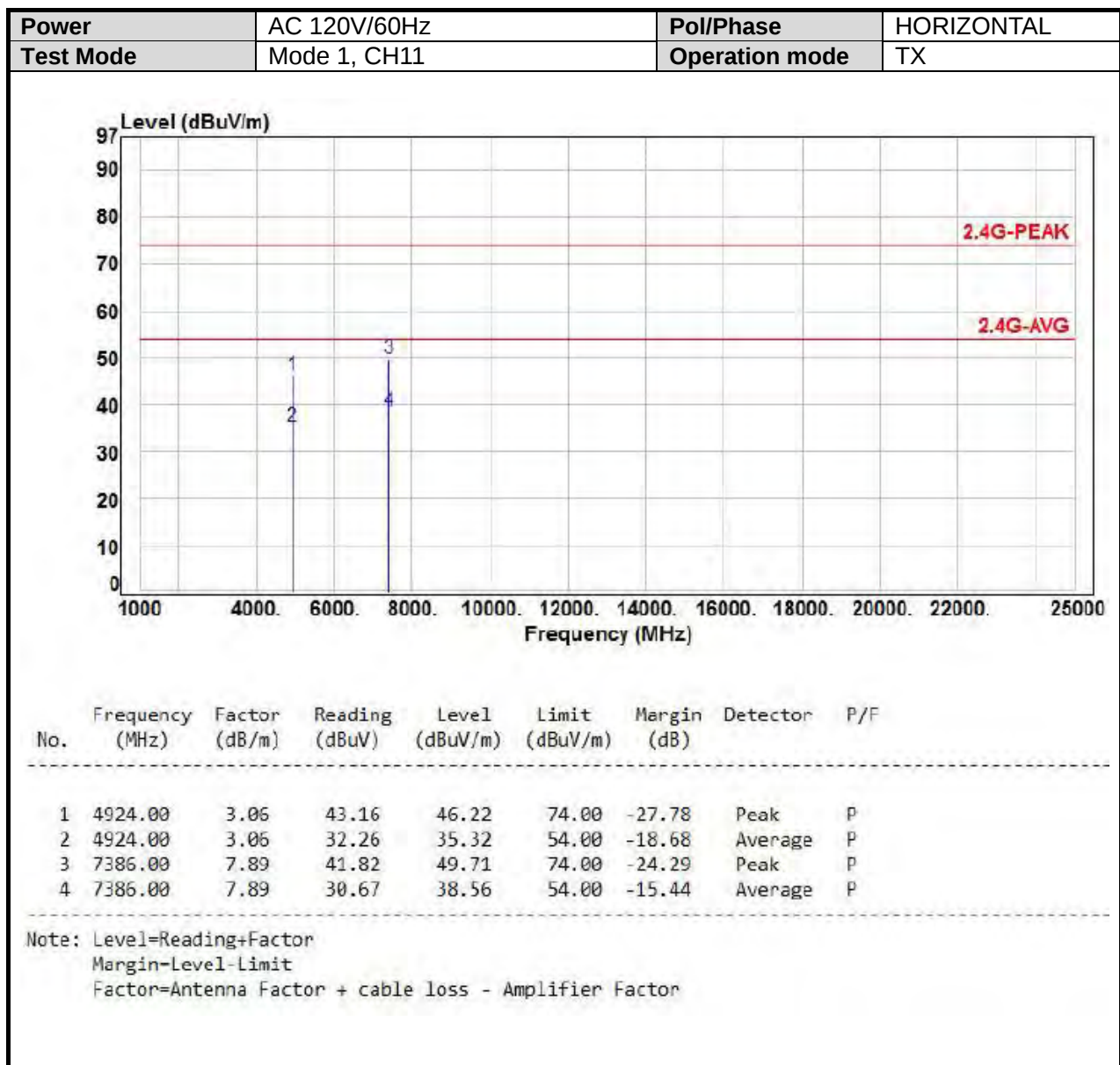


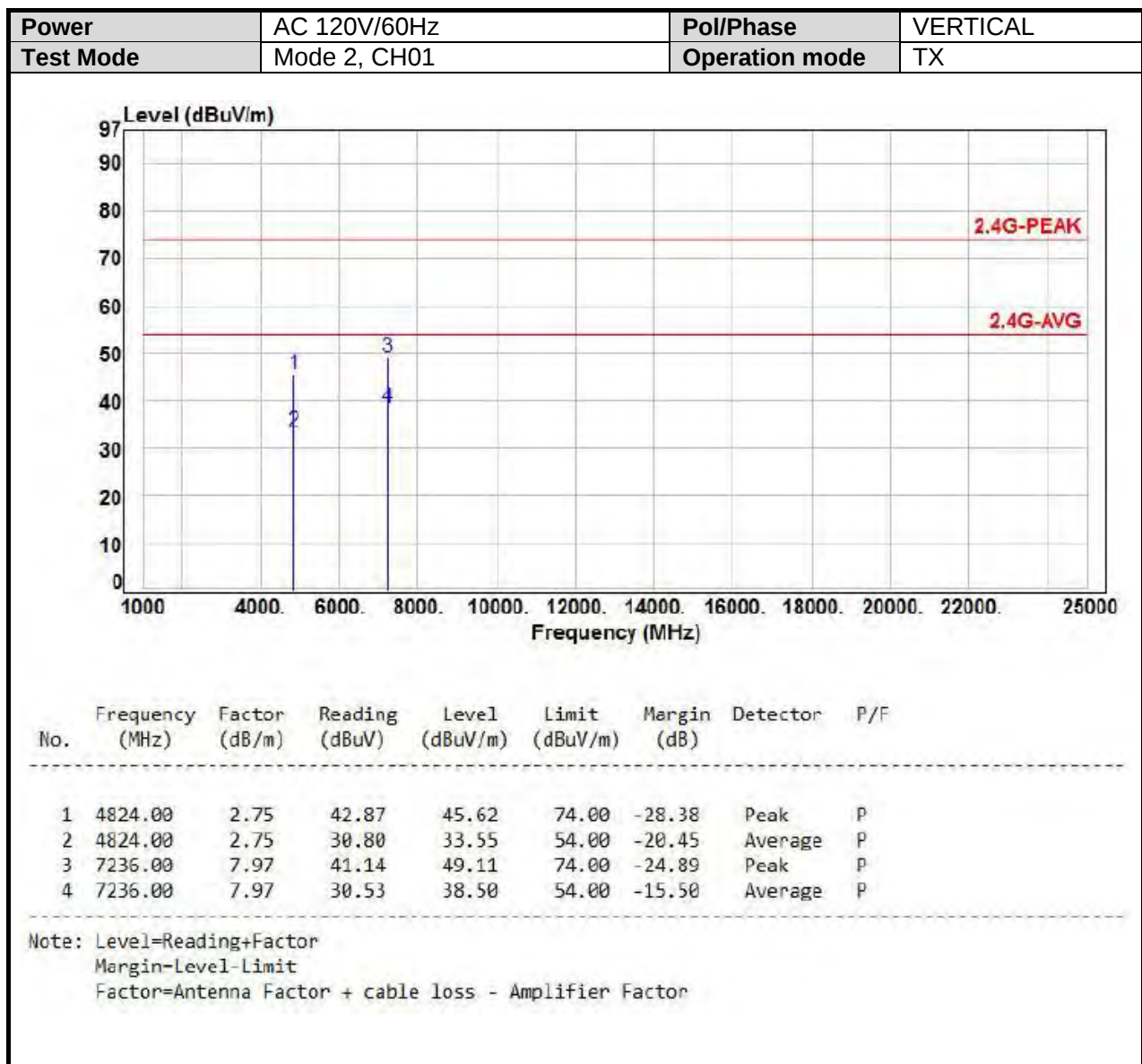


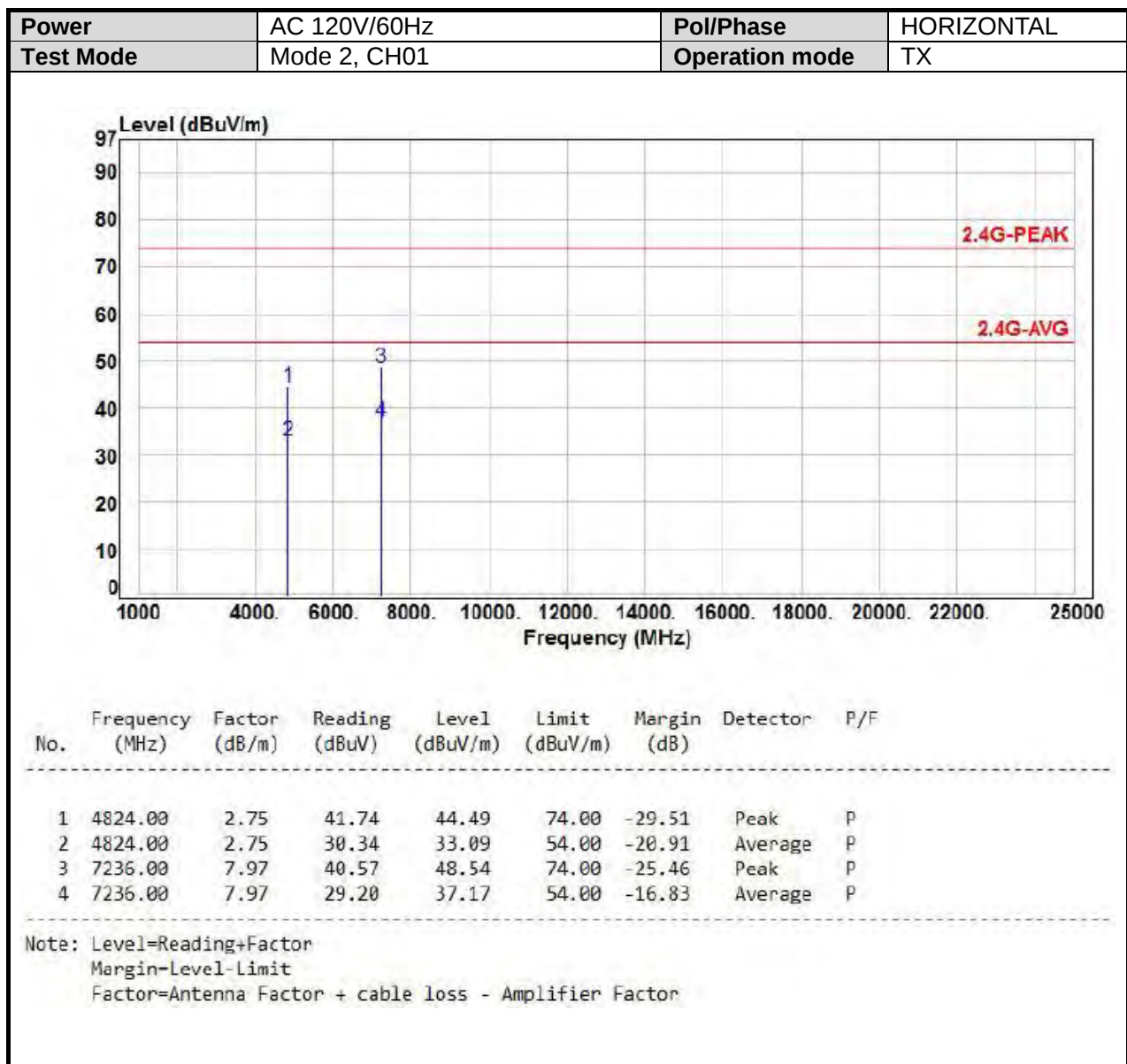


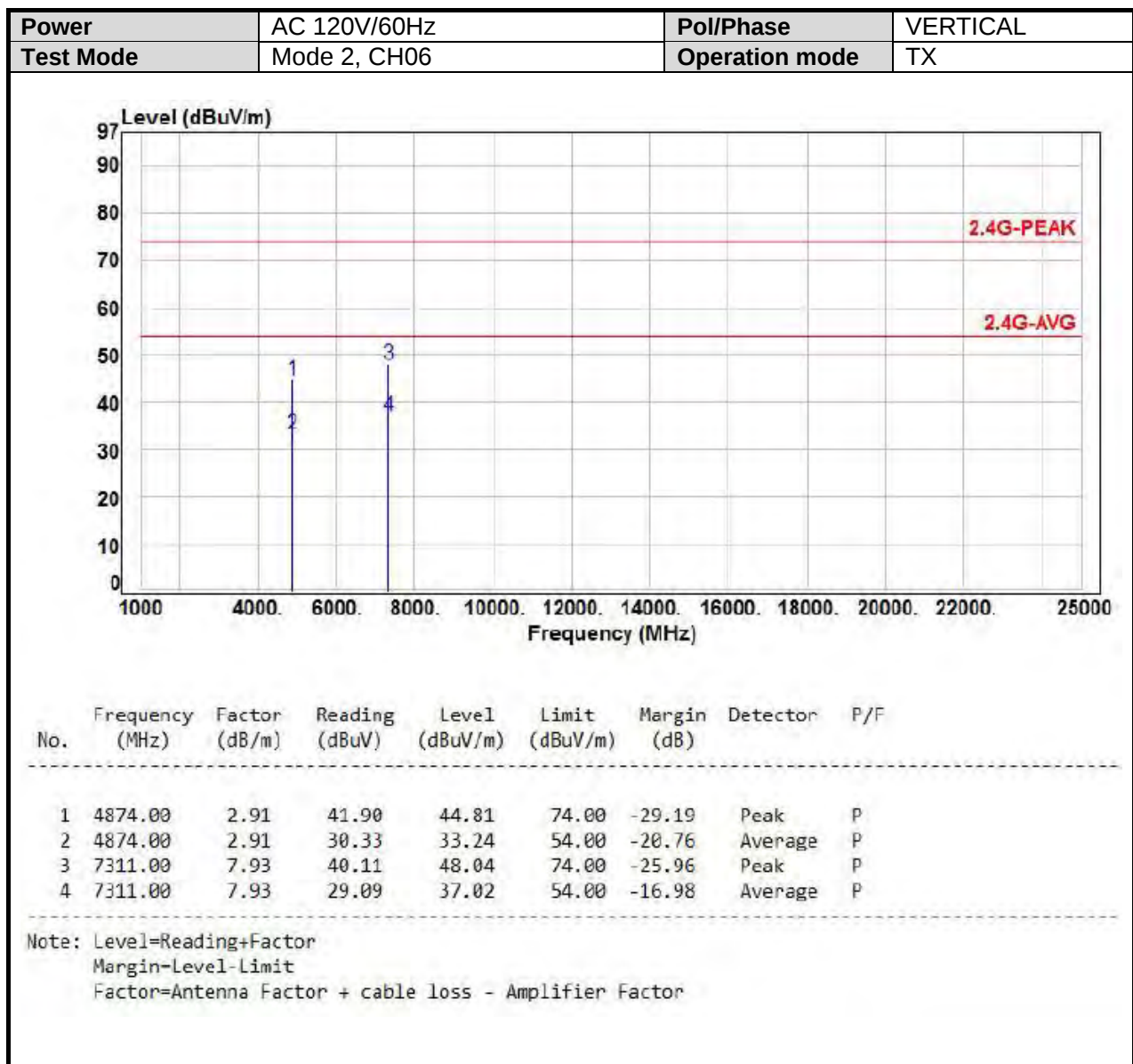


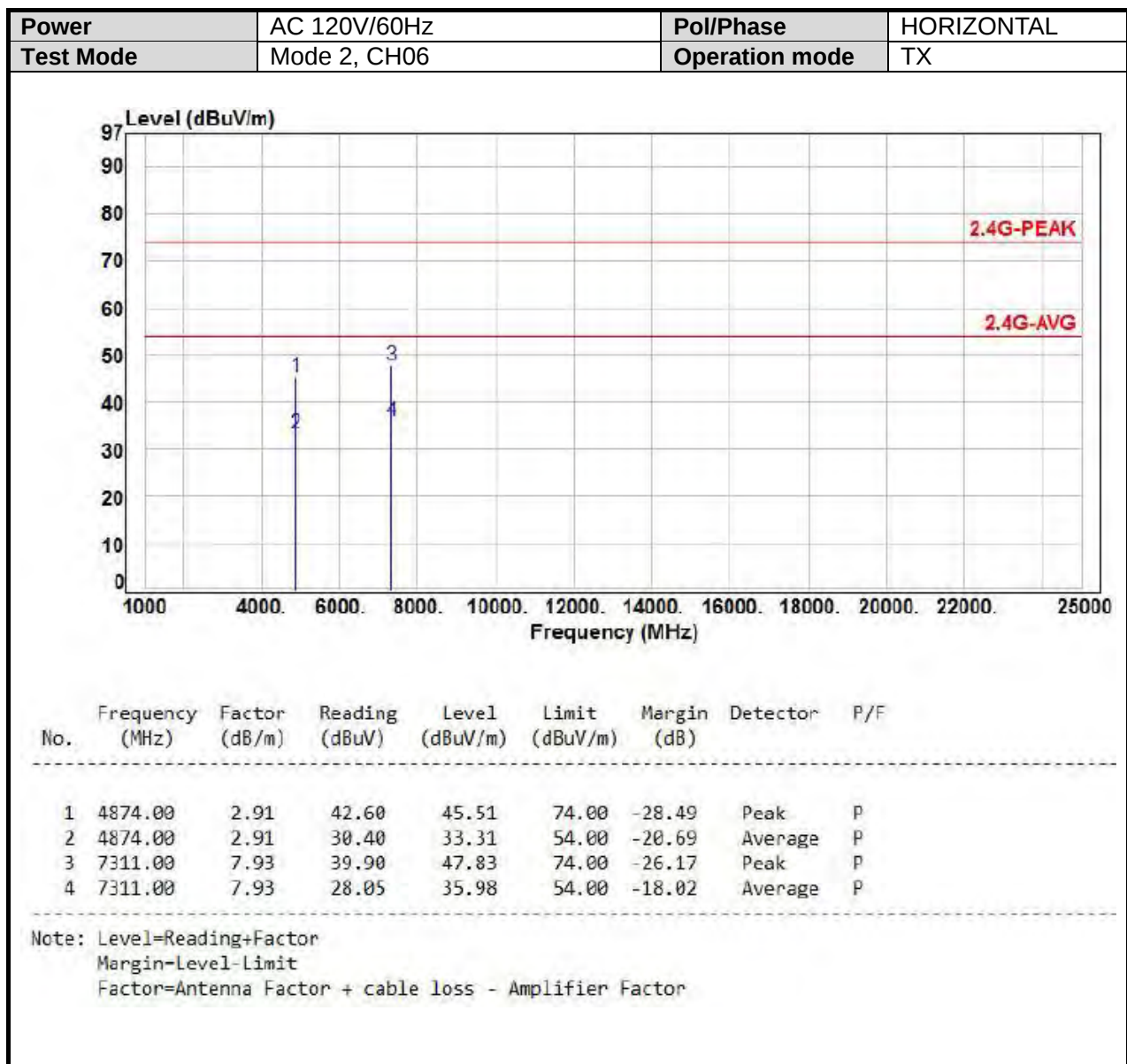


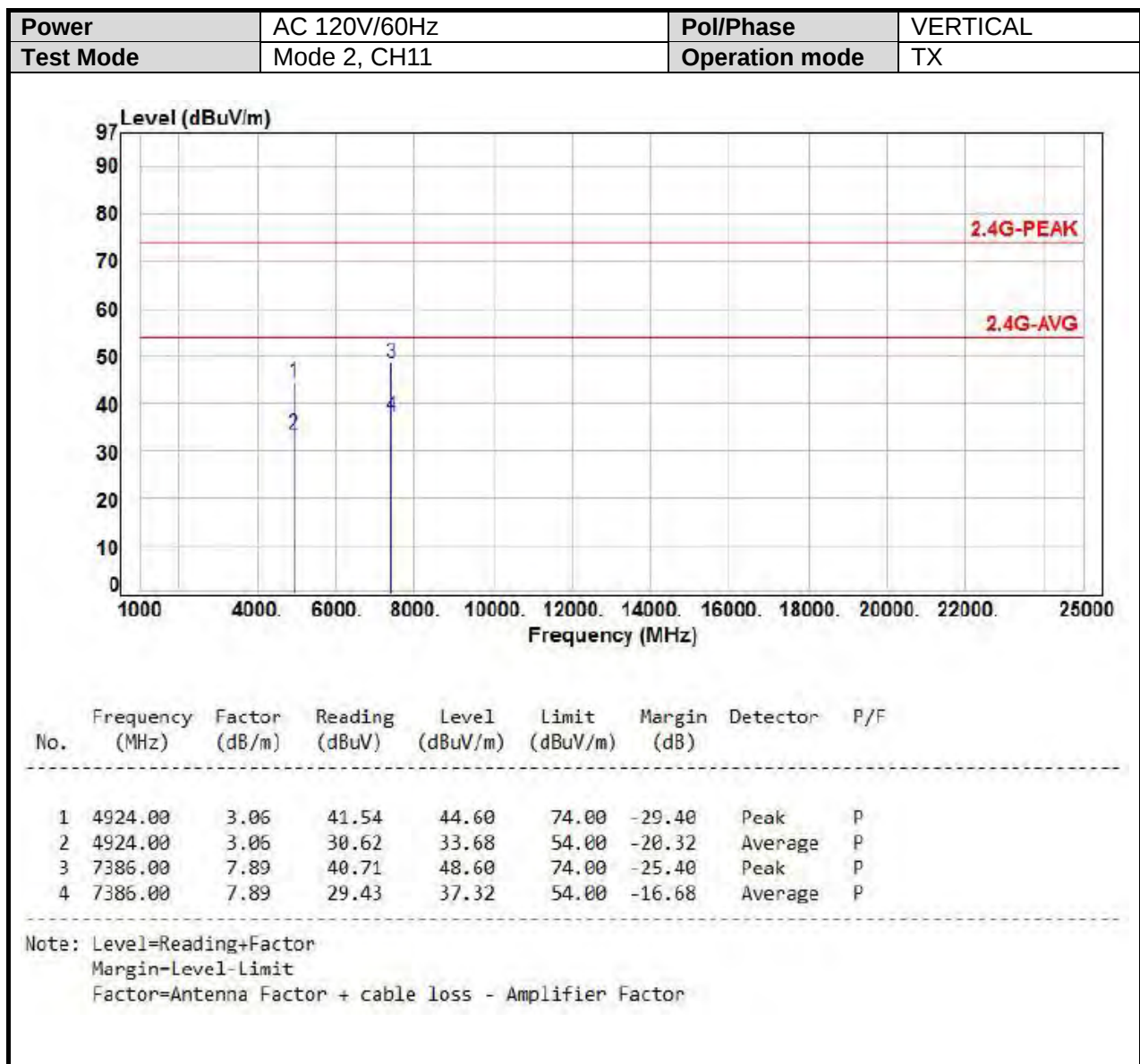


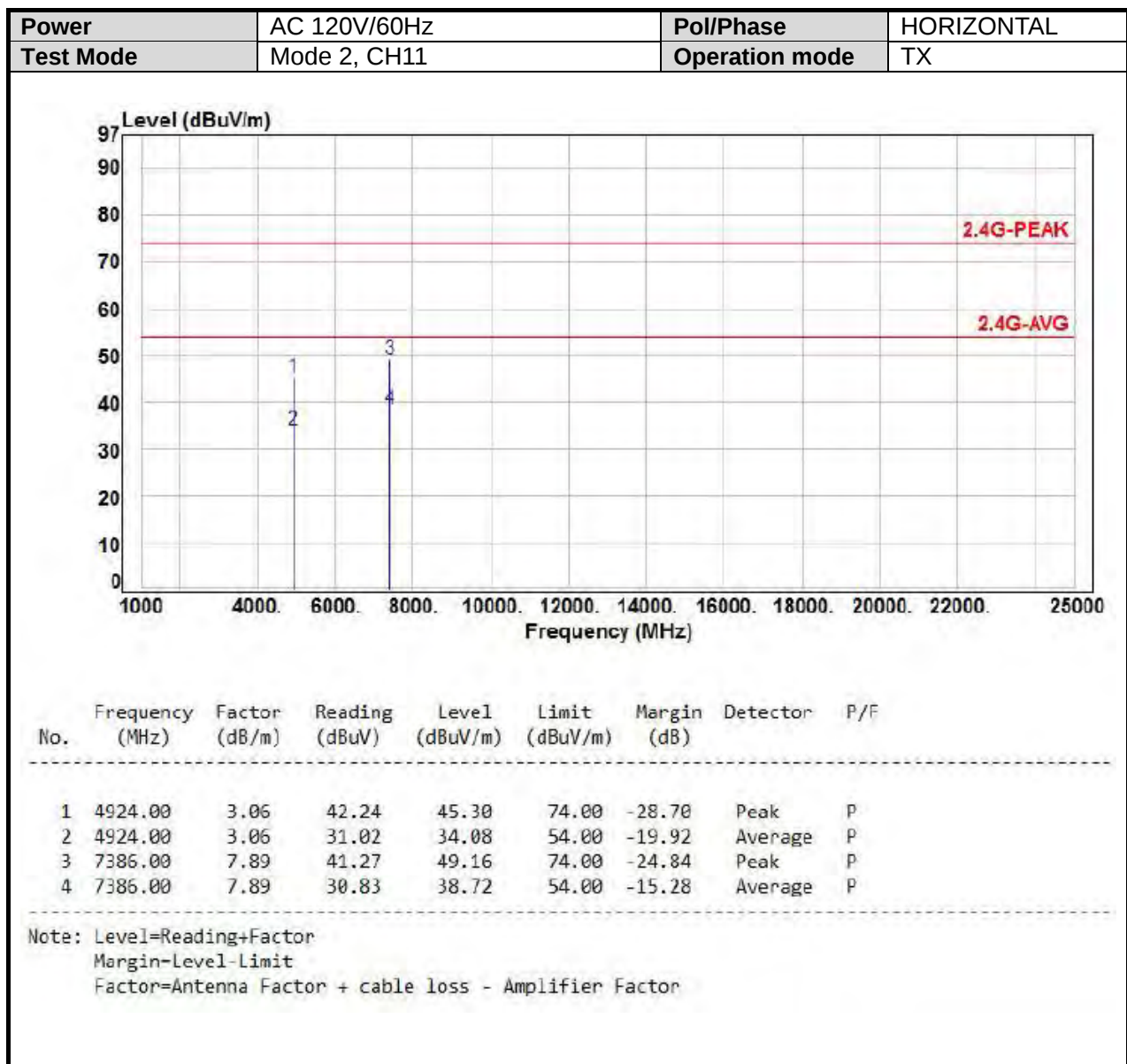






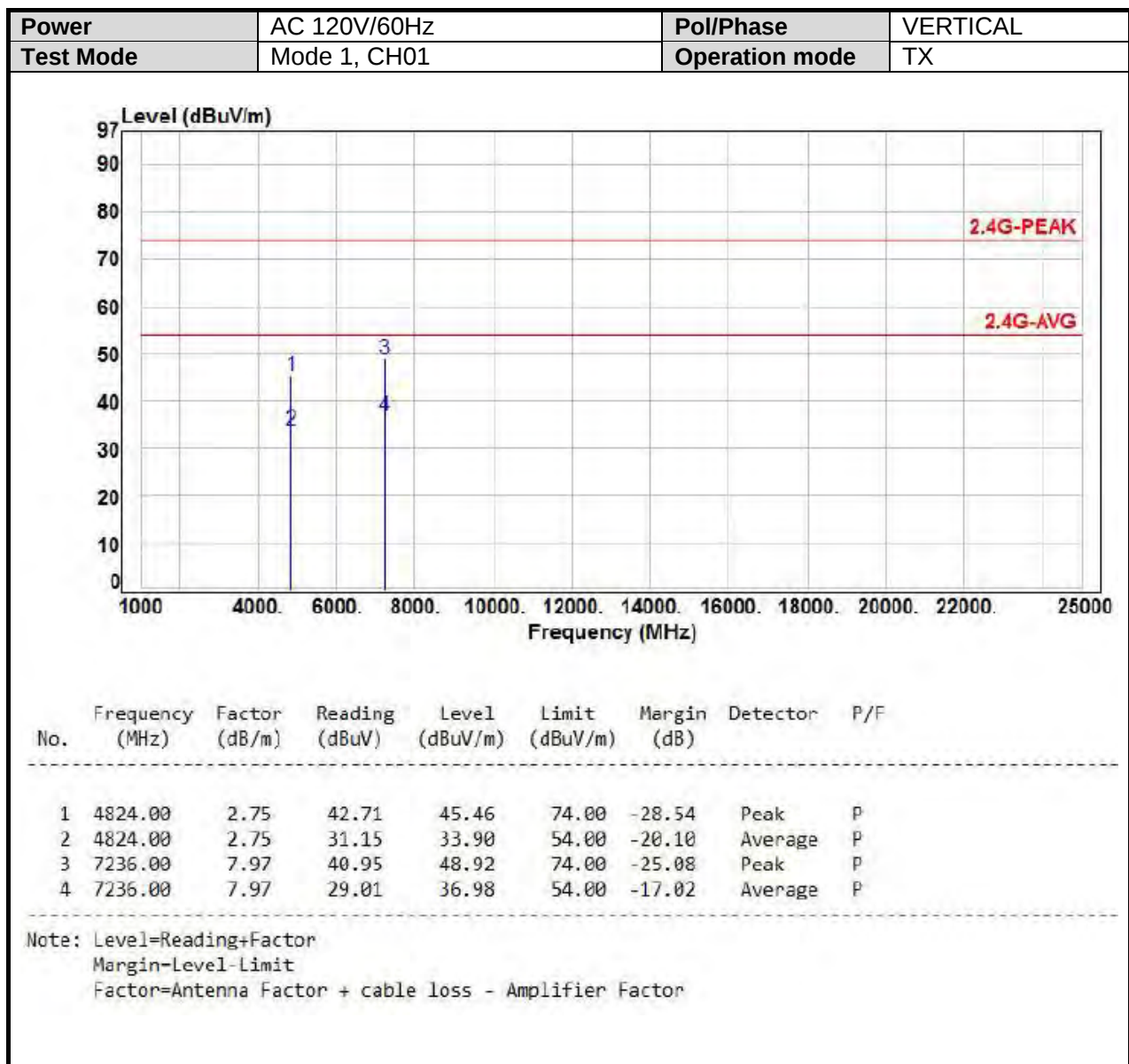


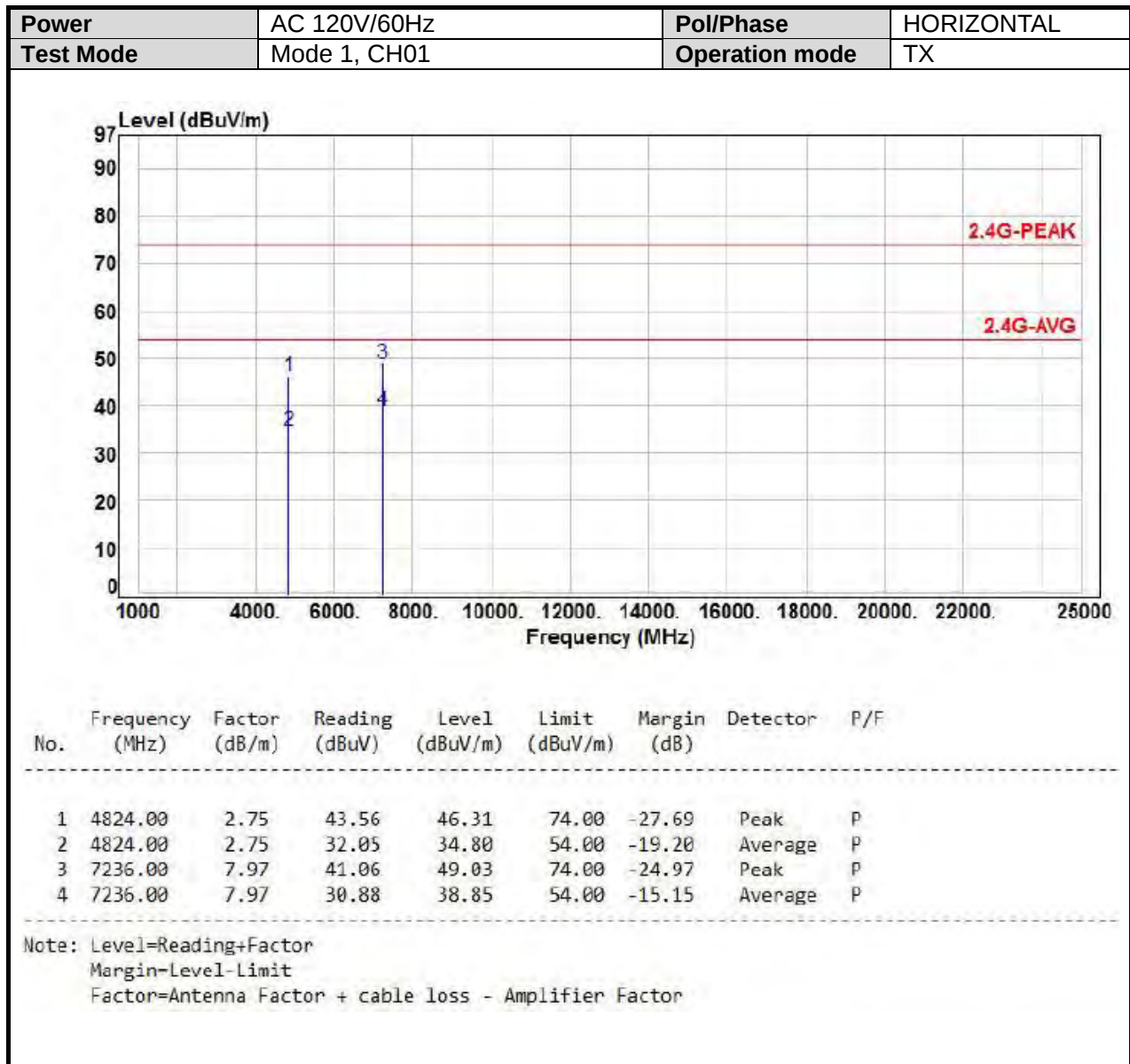


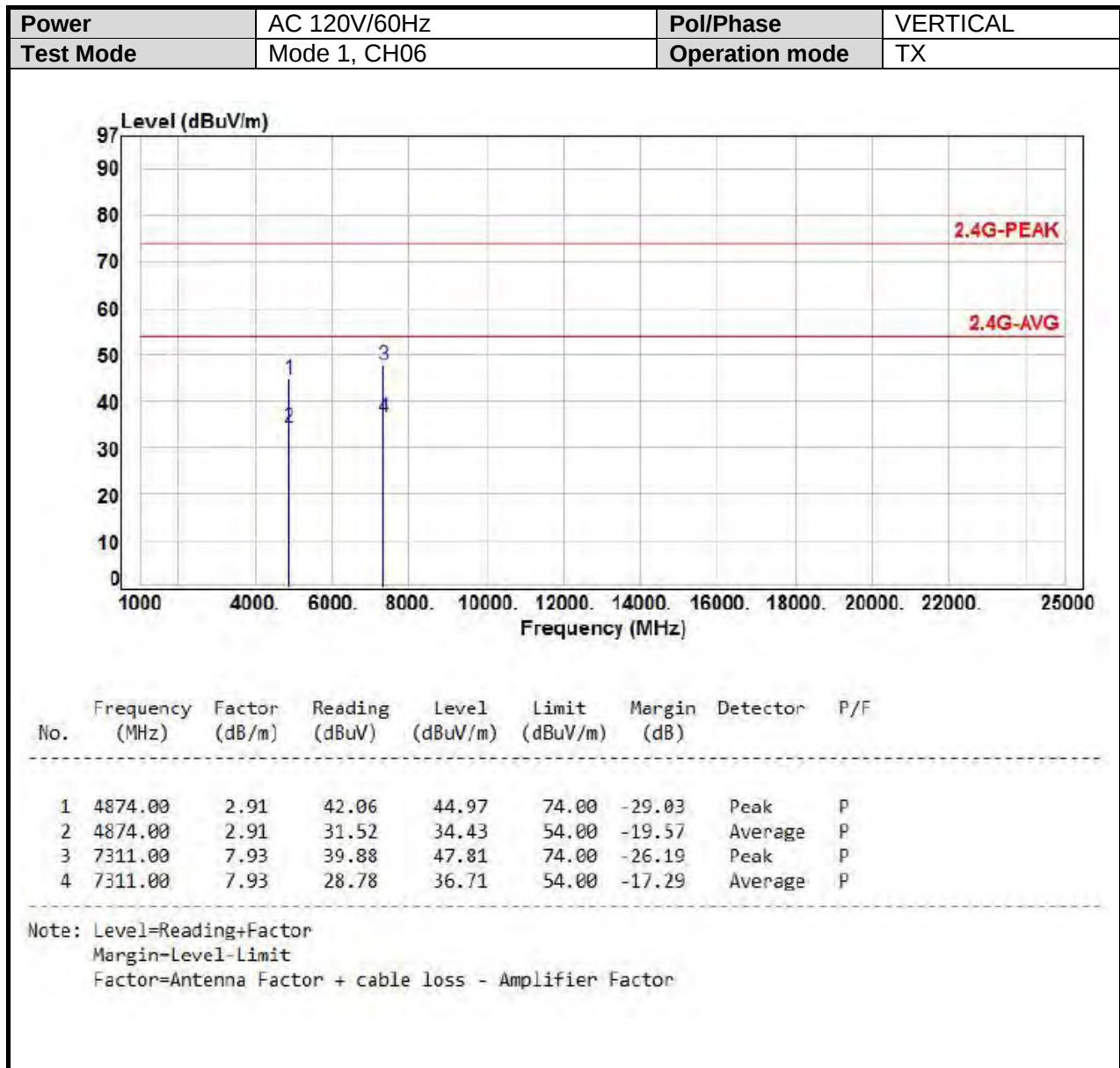


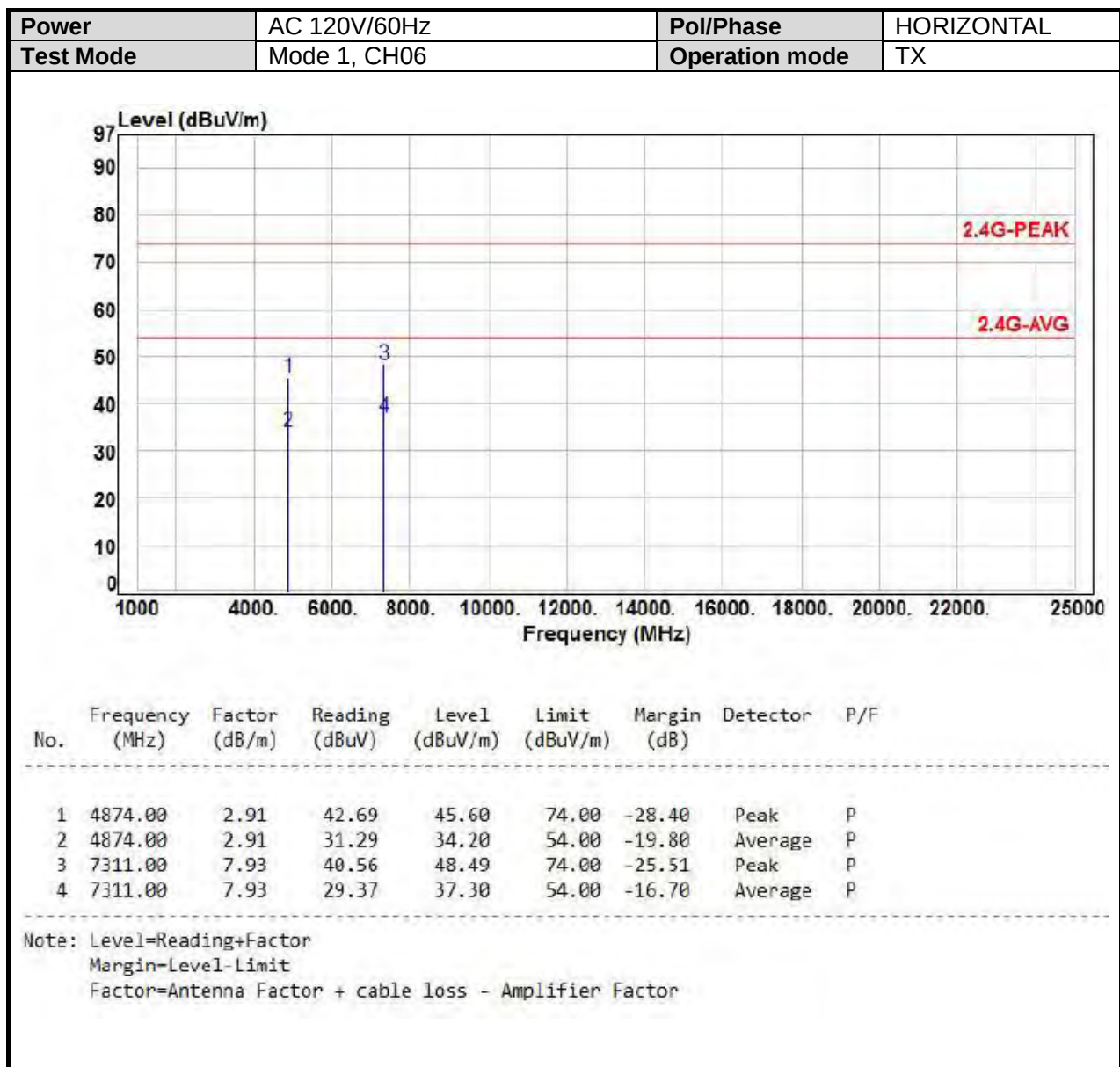


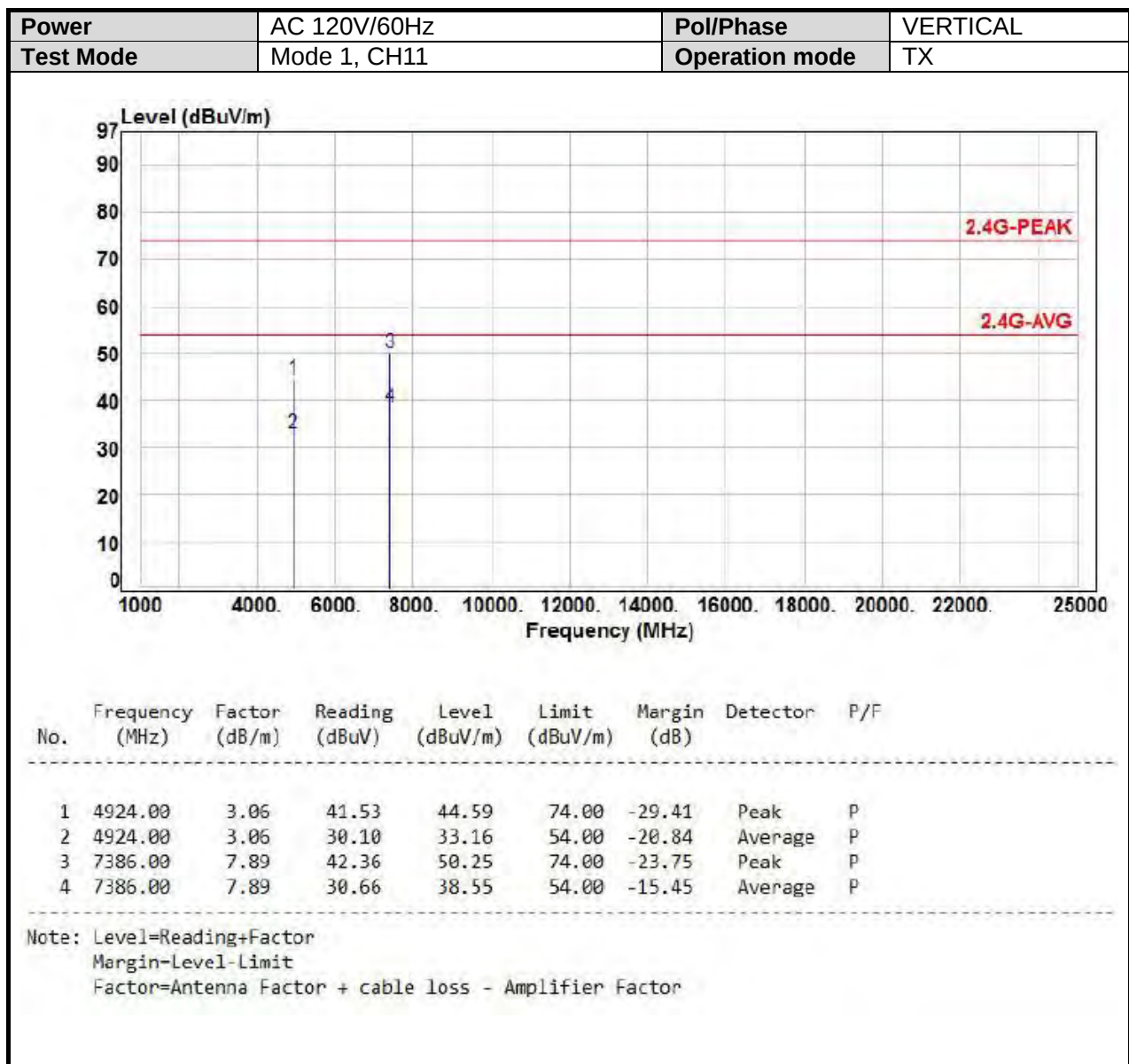
MIMO-2TX

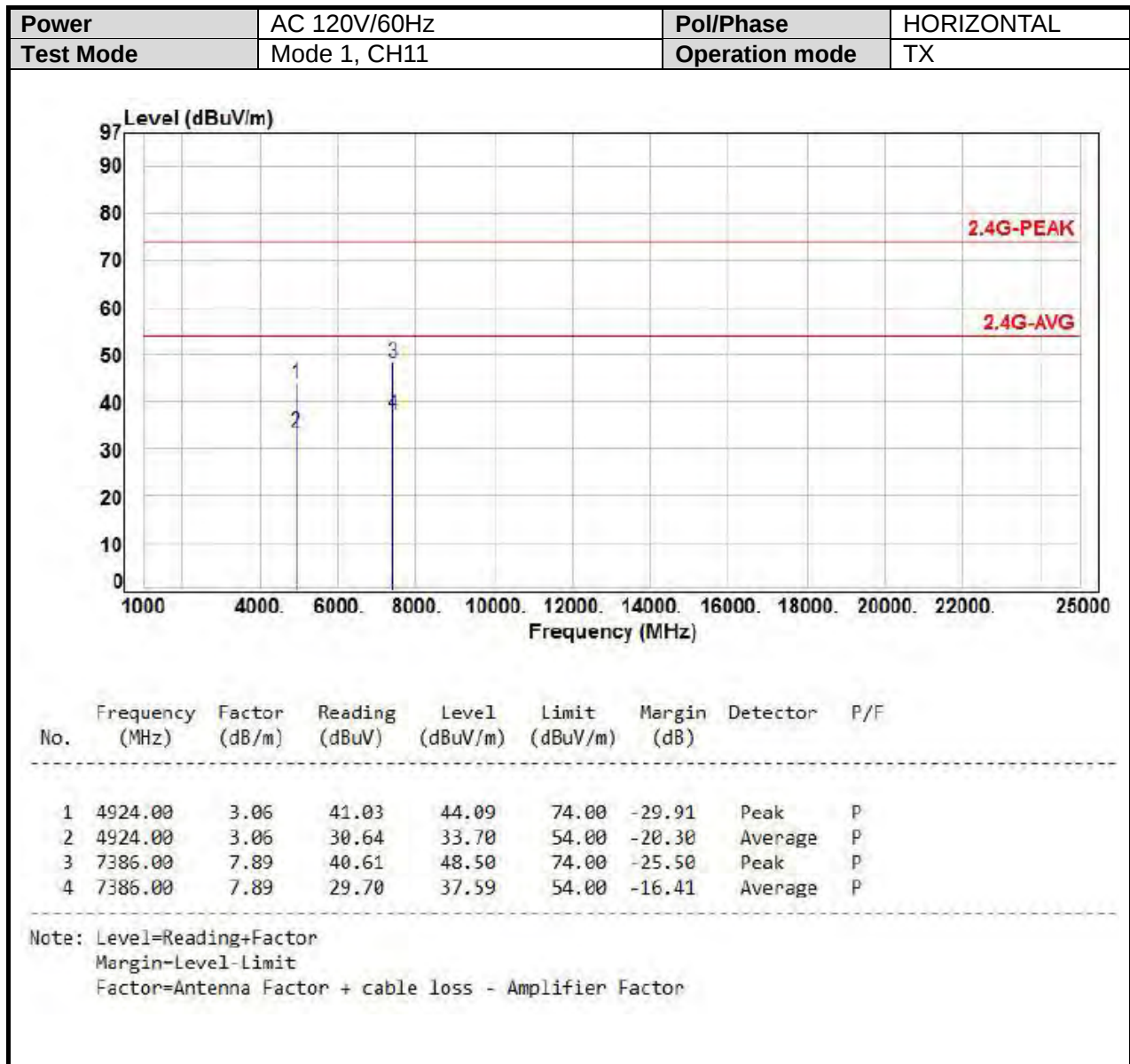


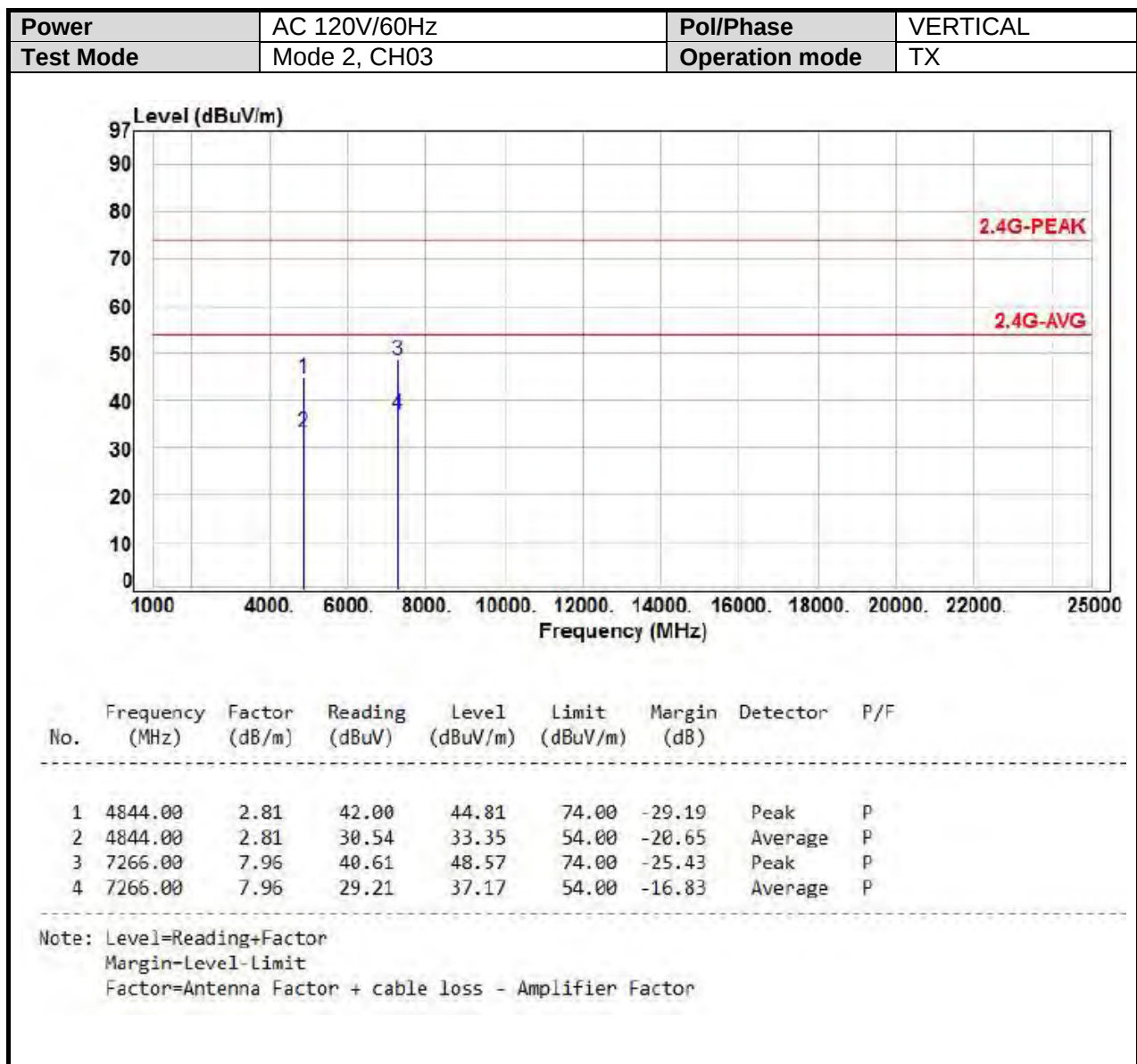


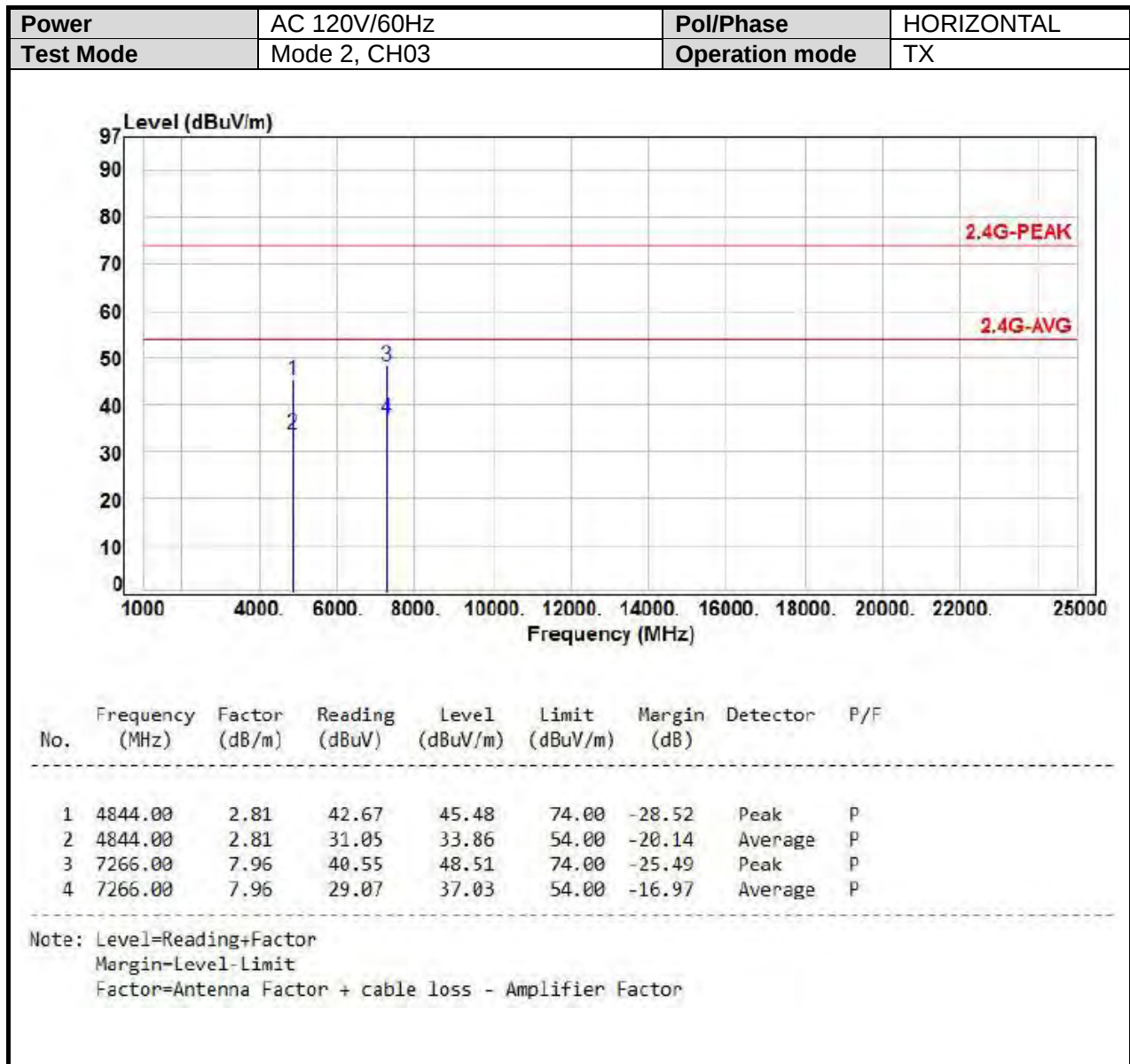


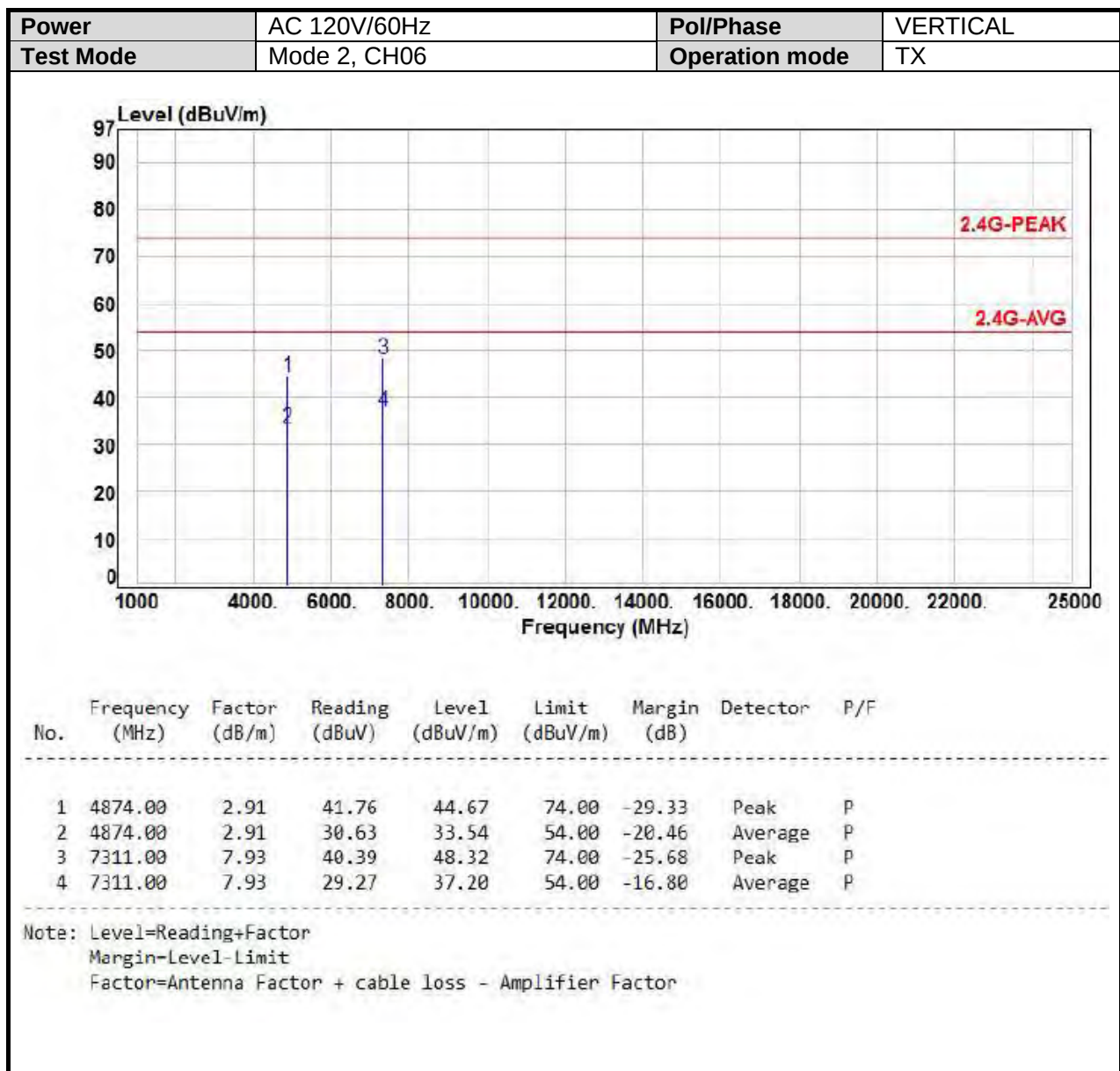


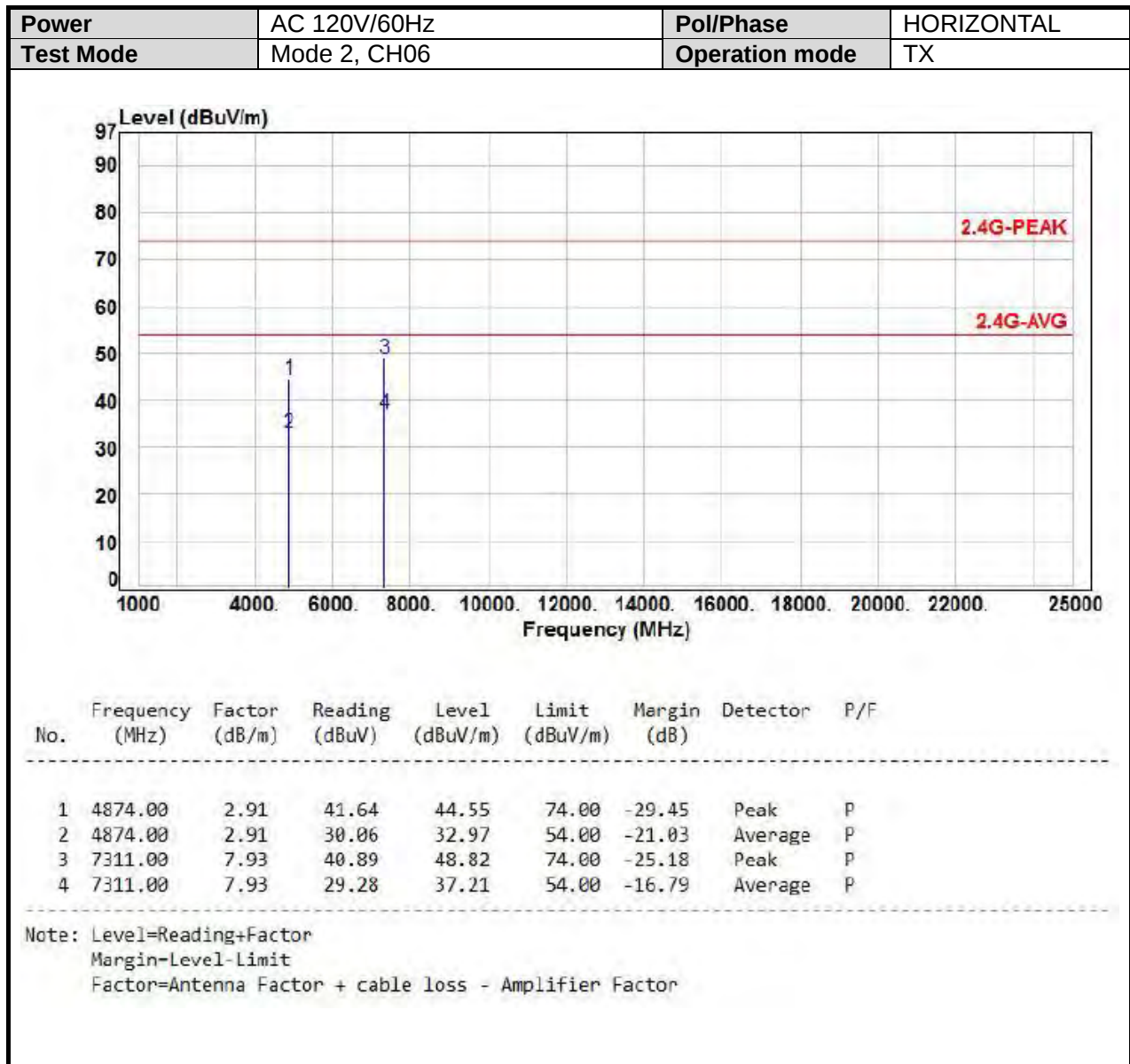


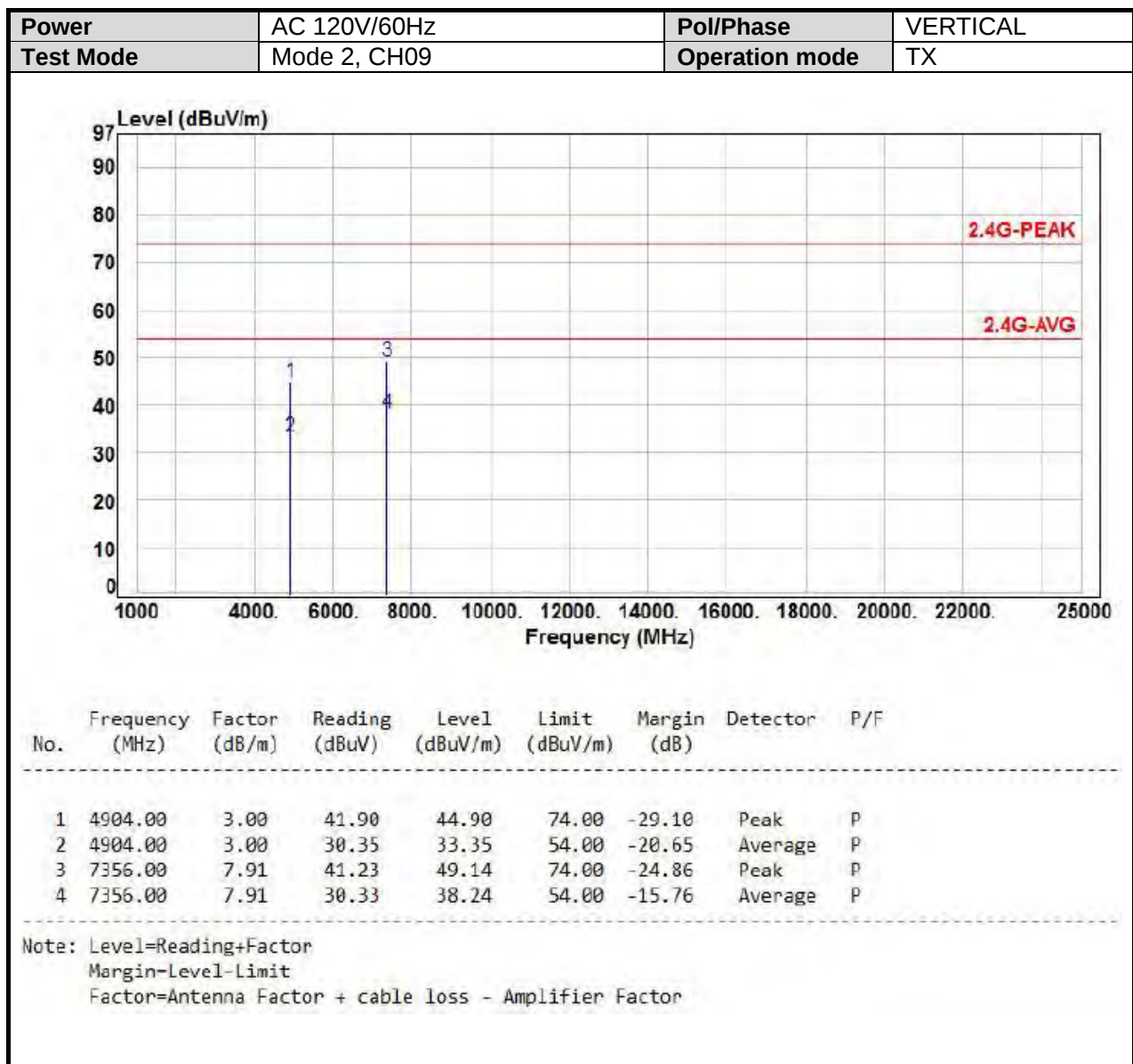


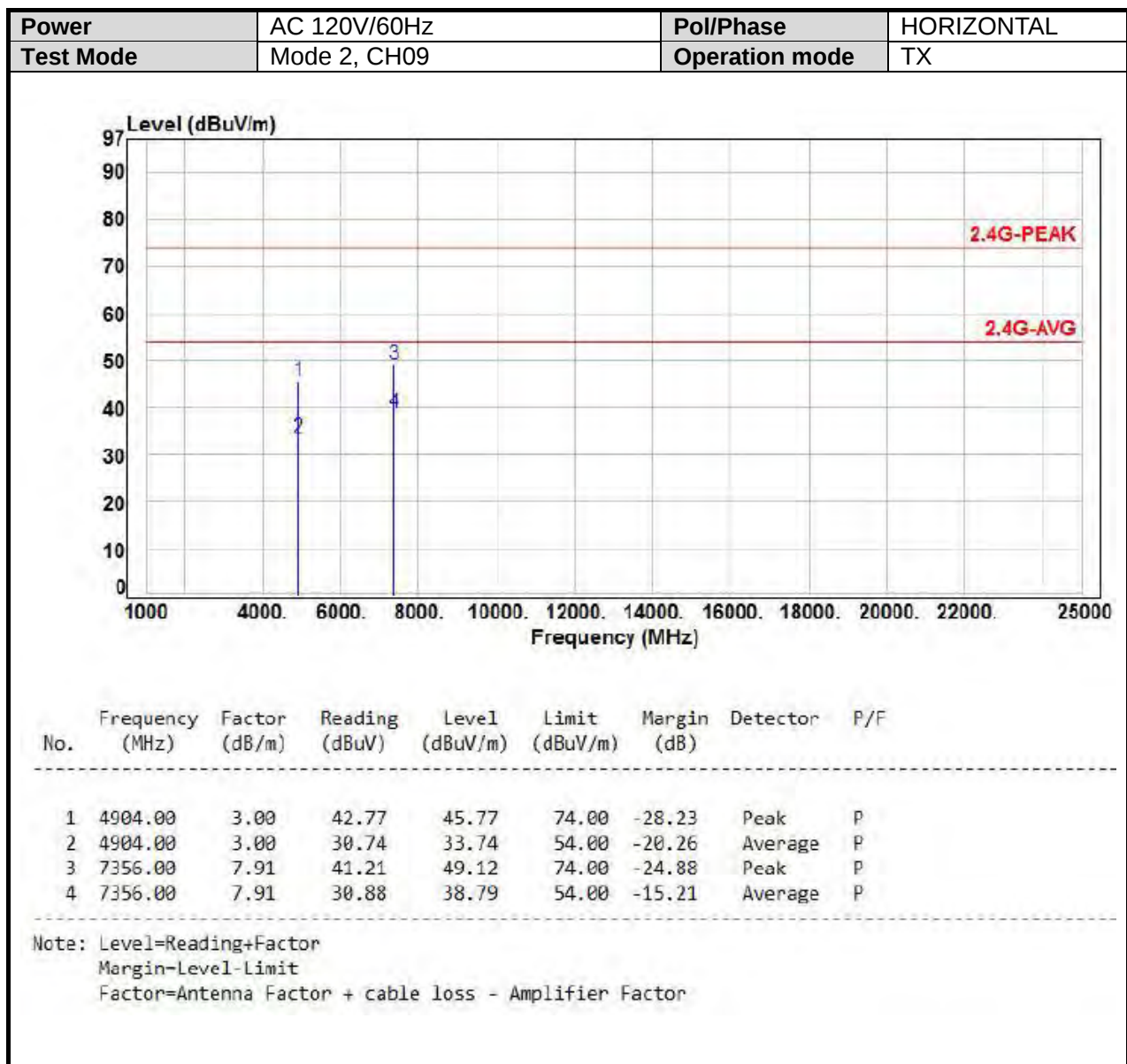


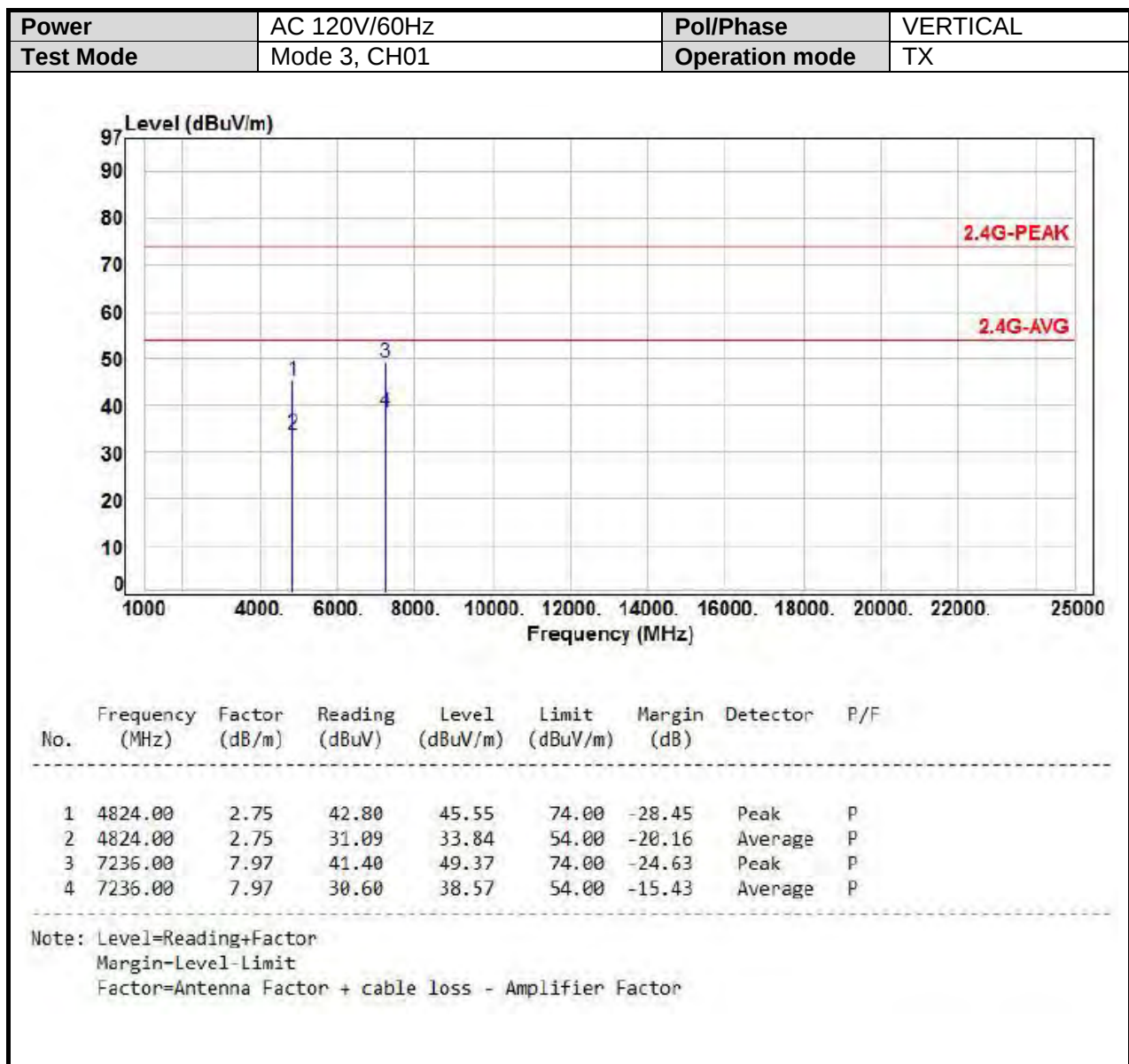


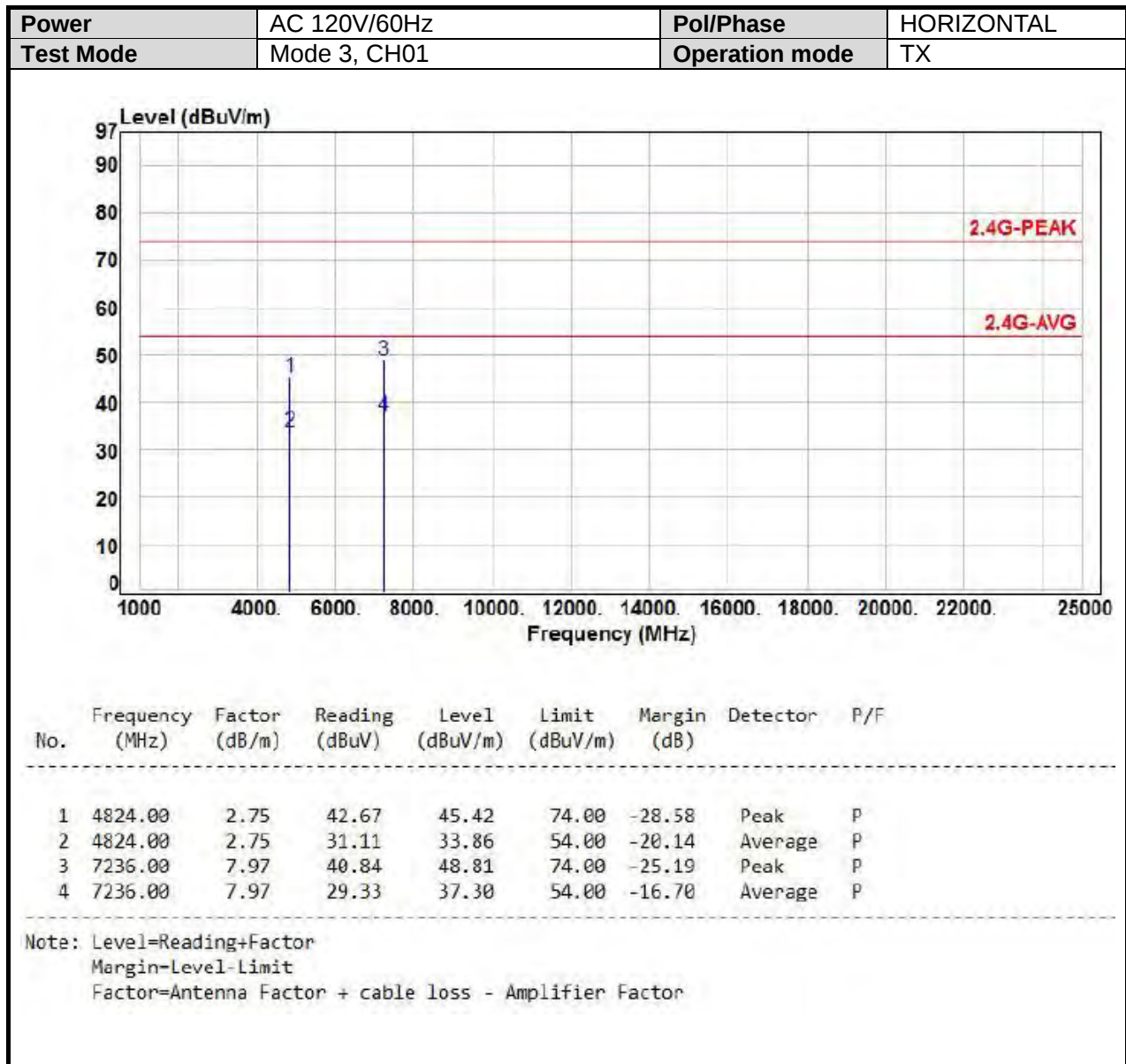


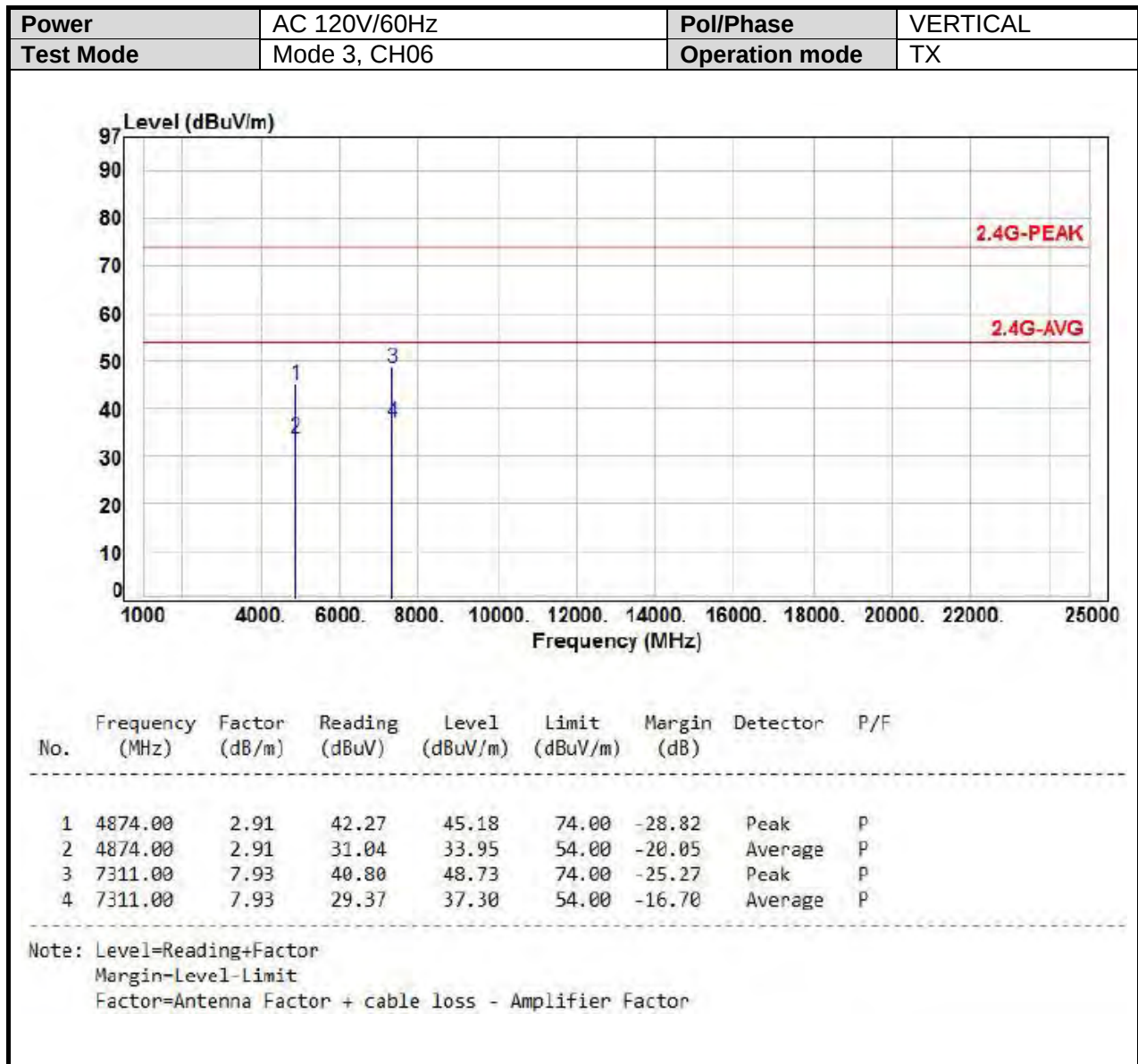


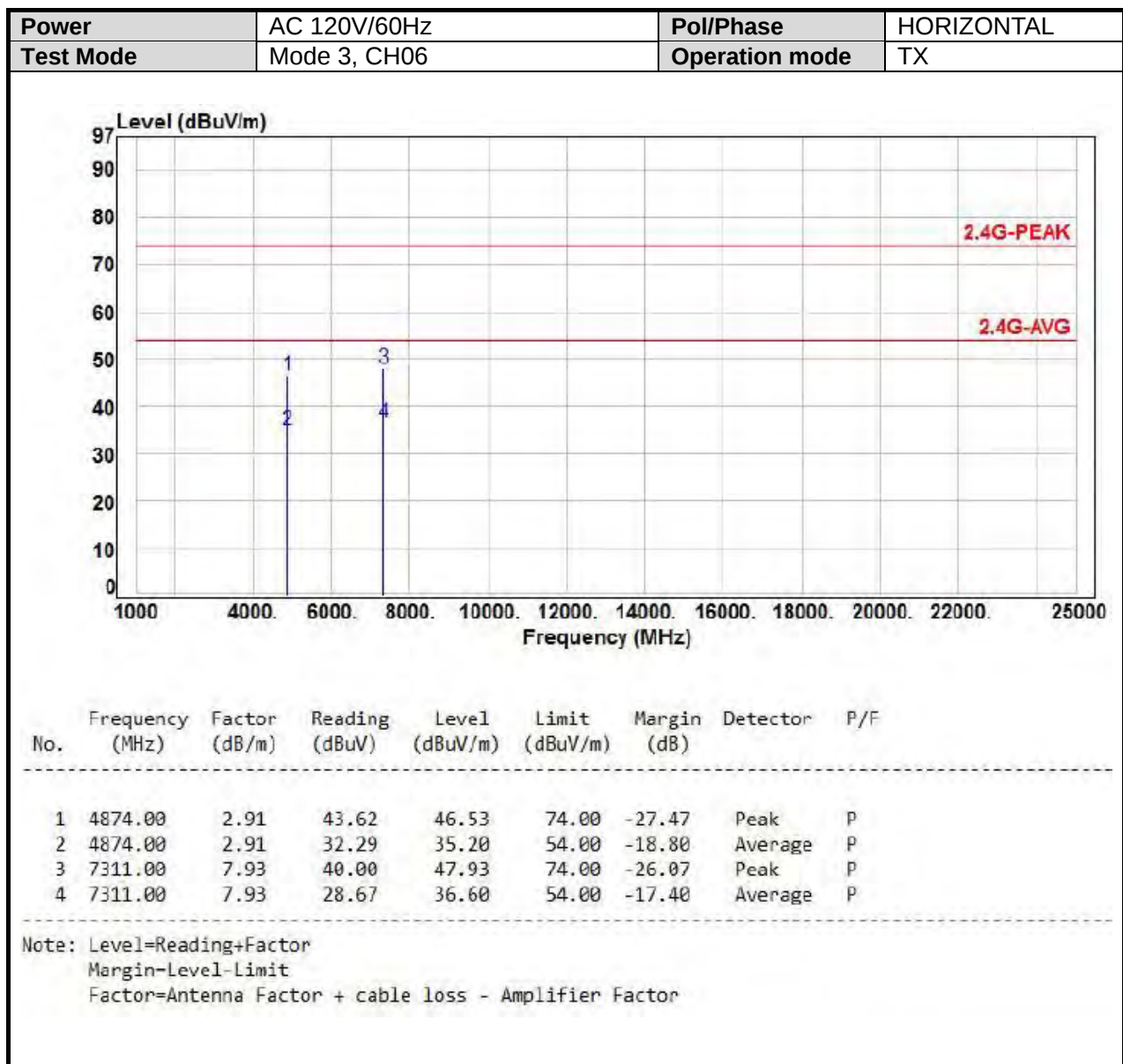


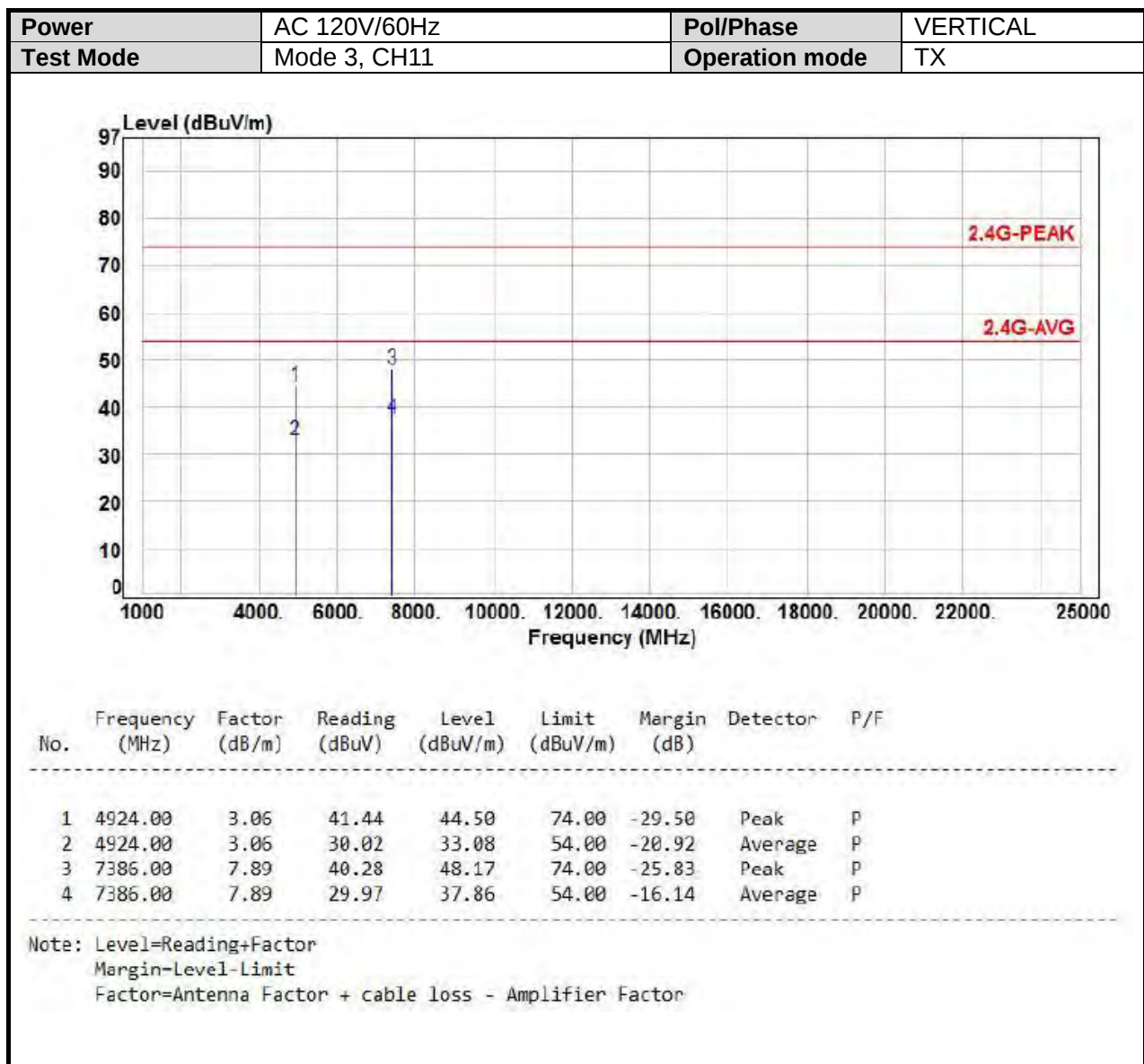


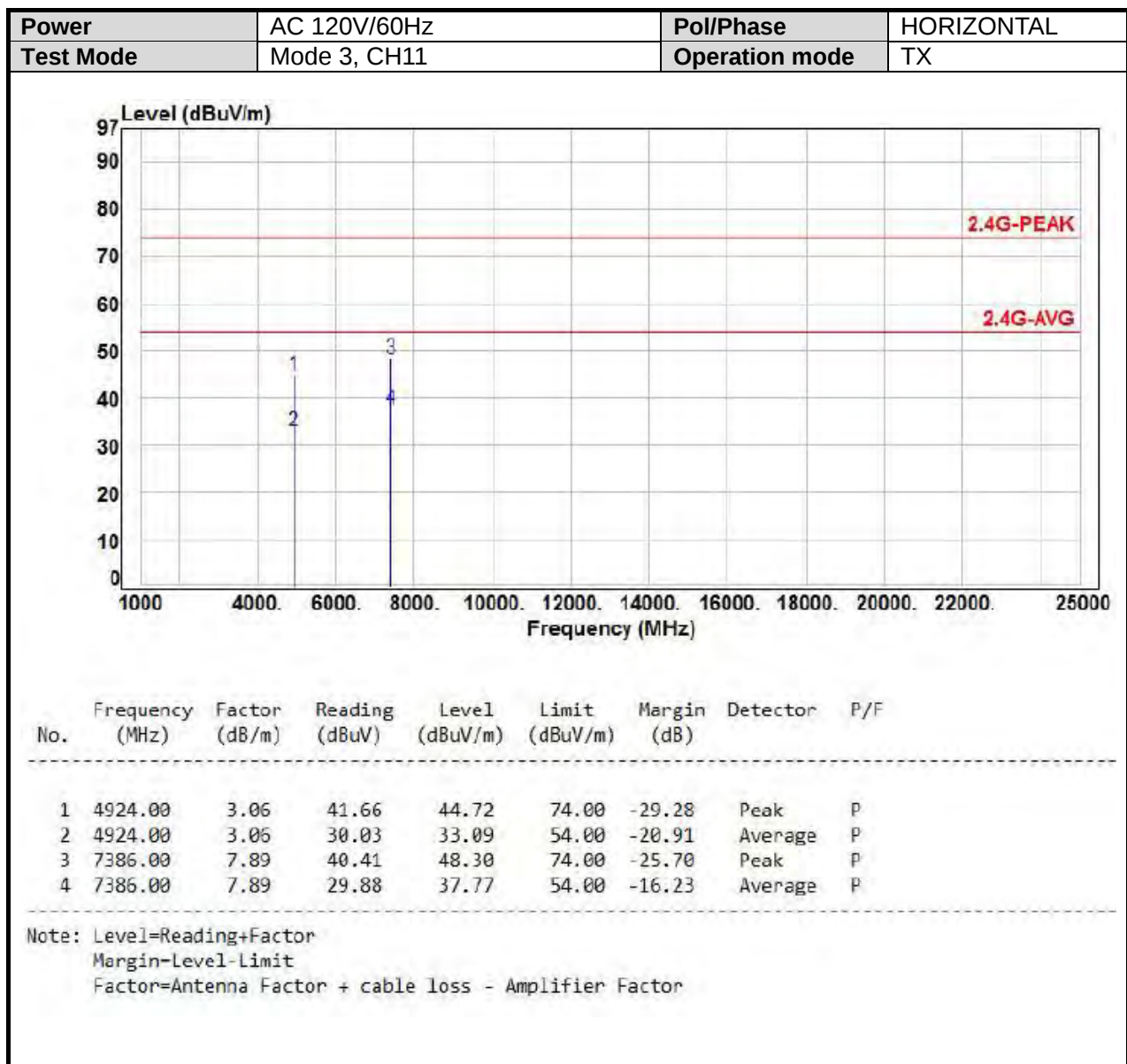


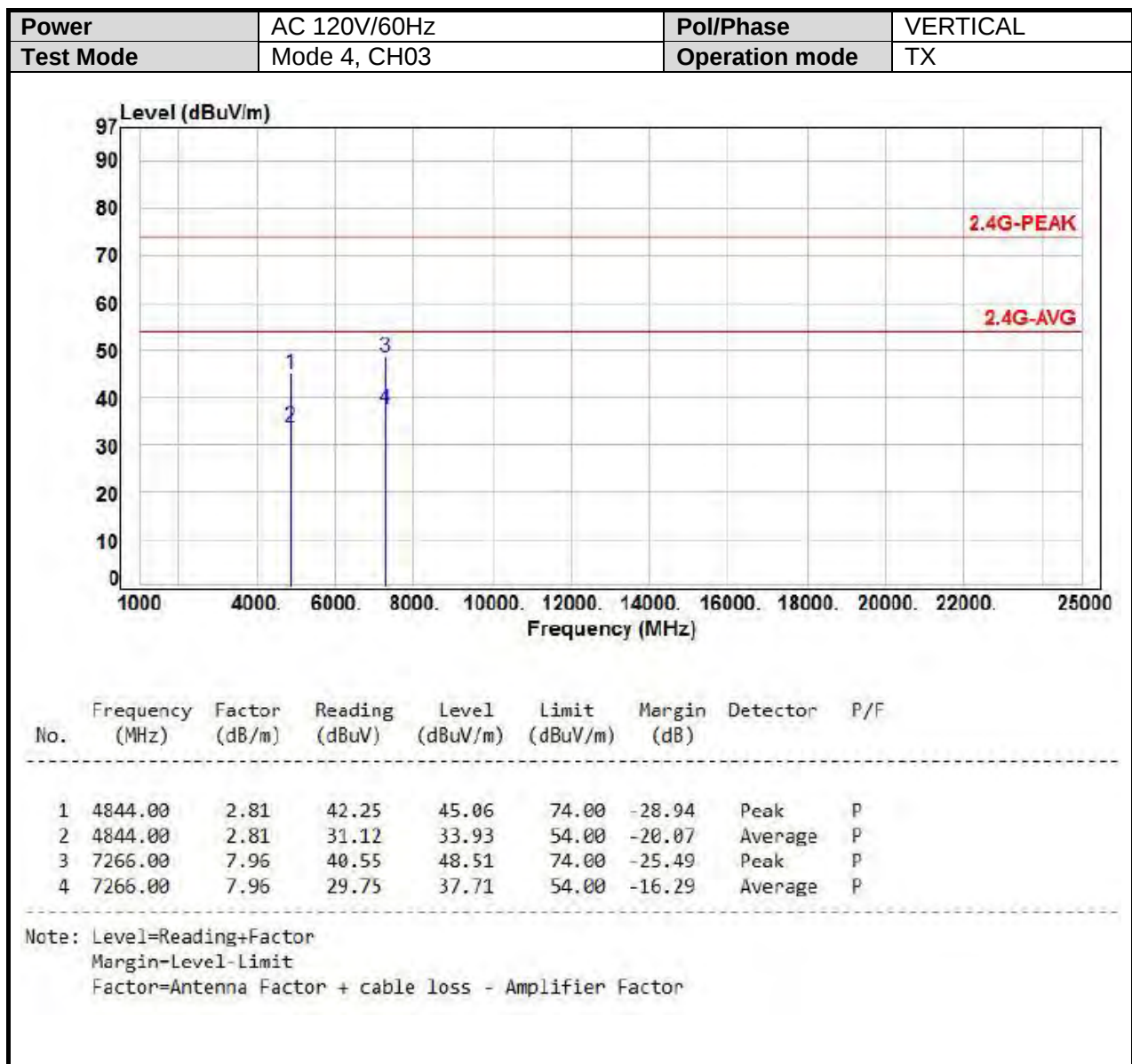


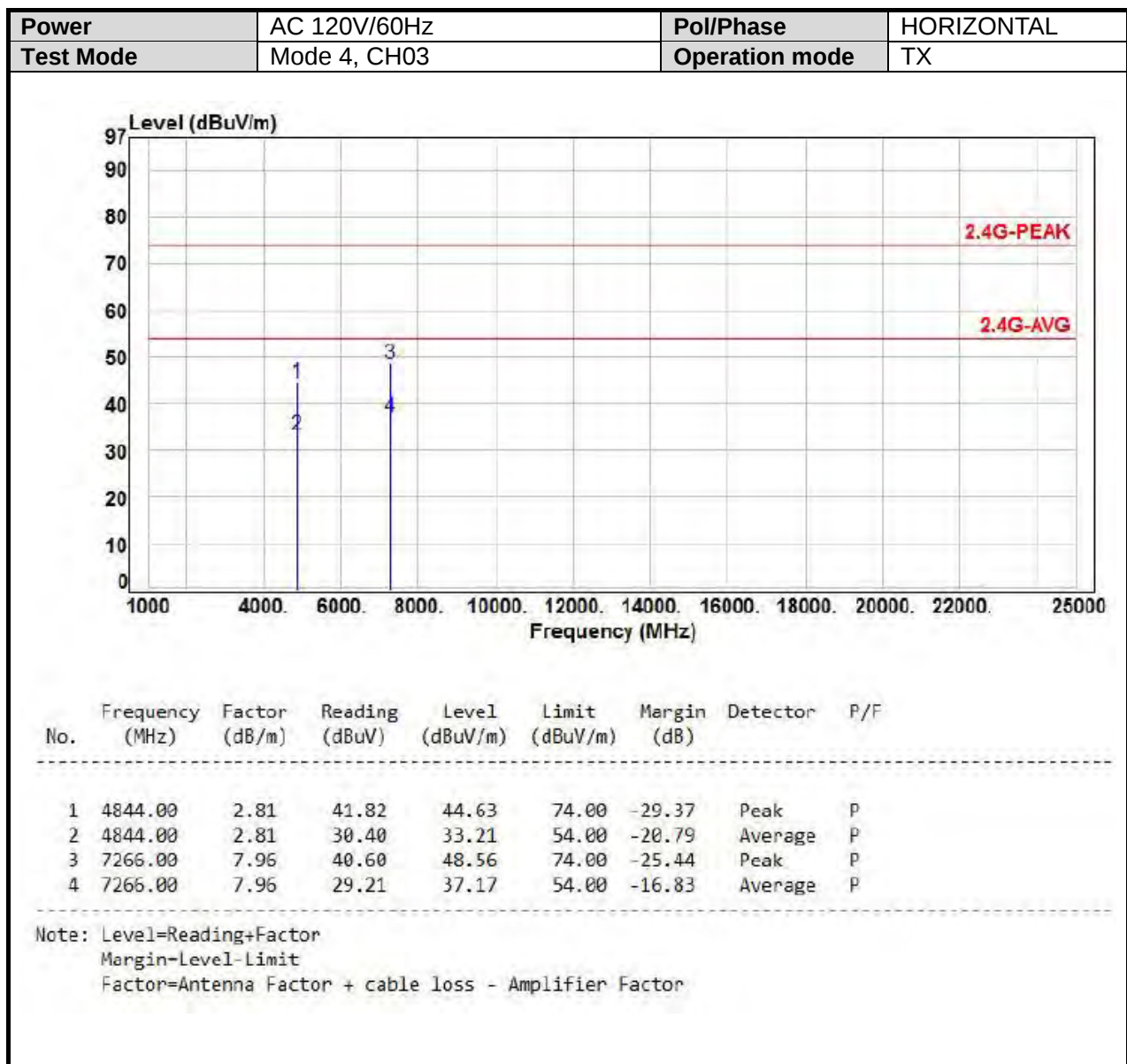


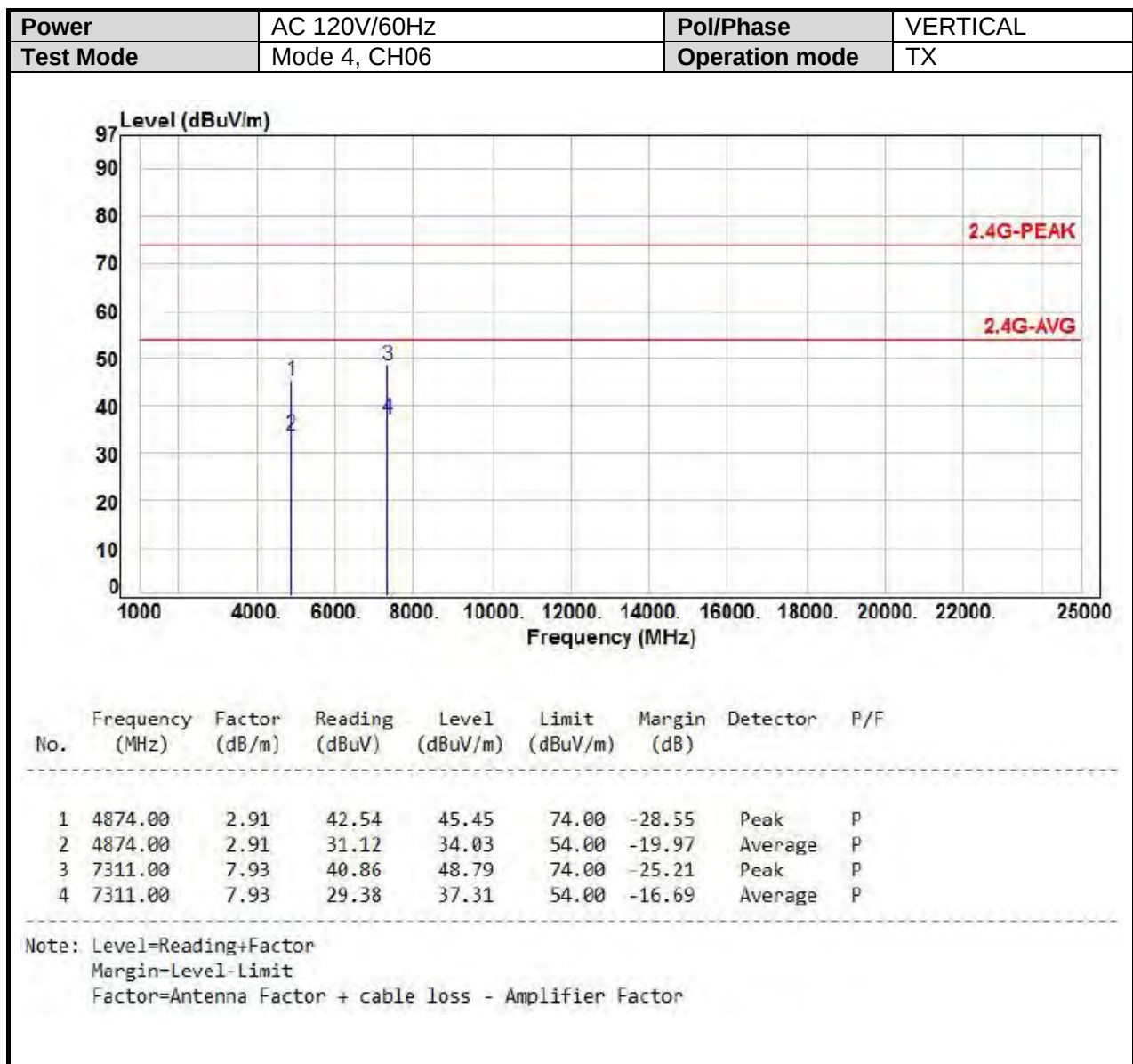


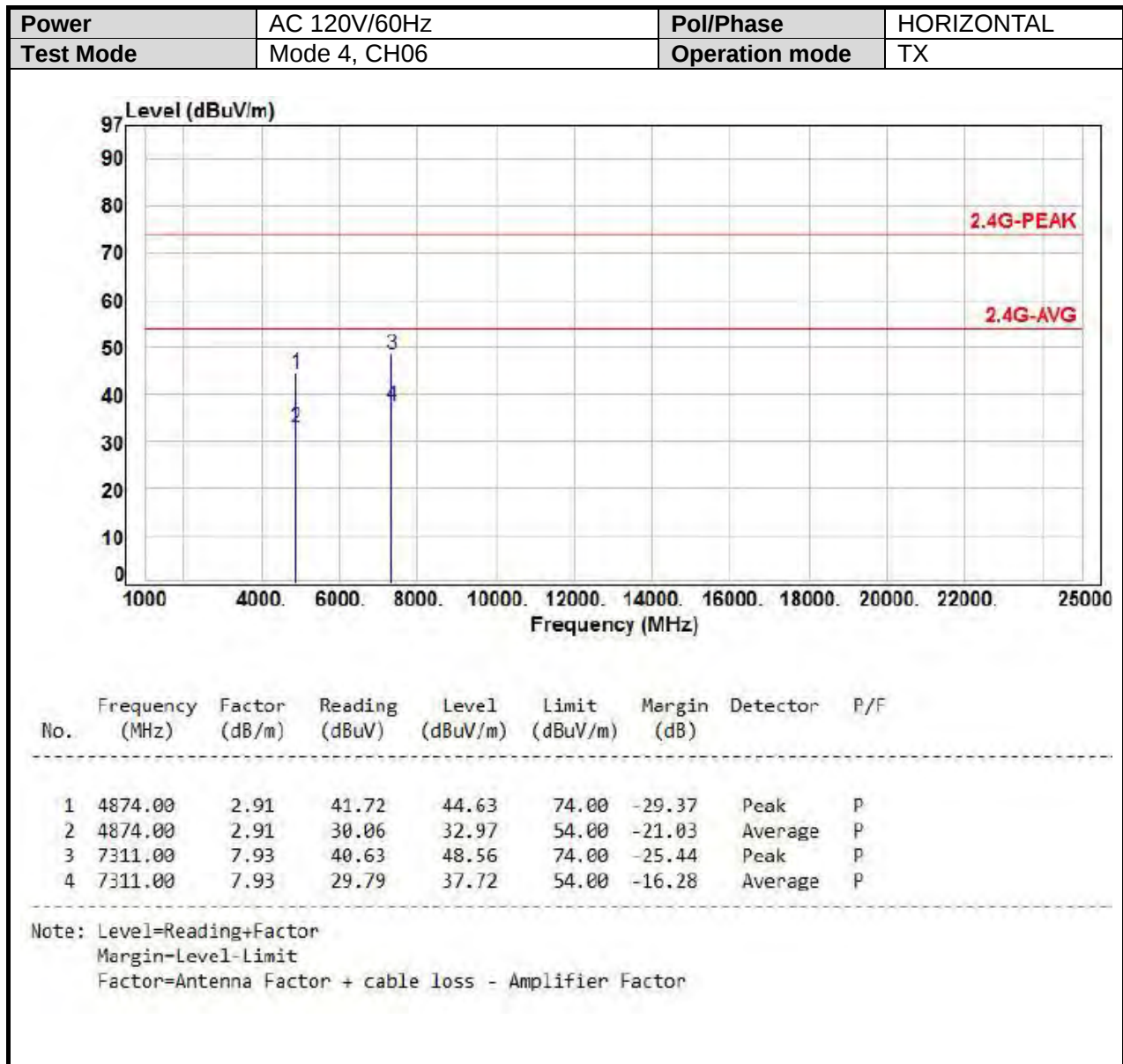


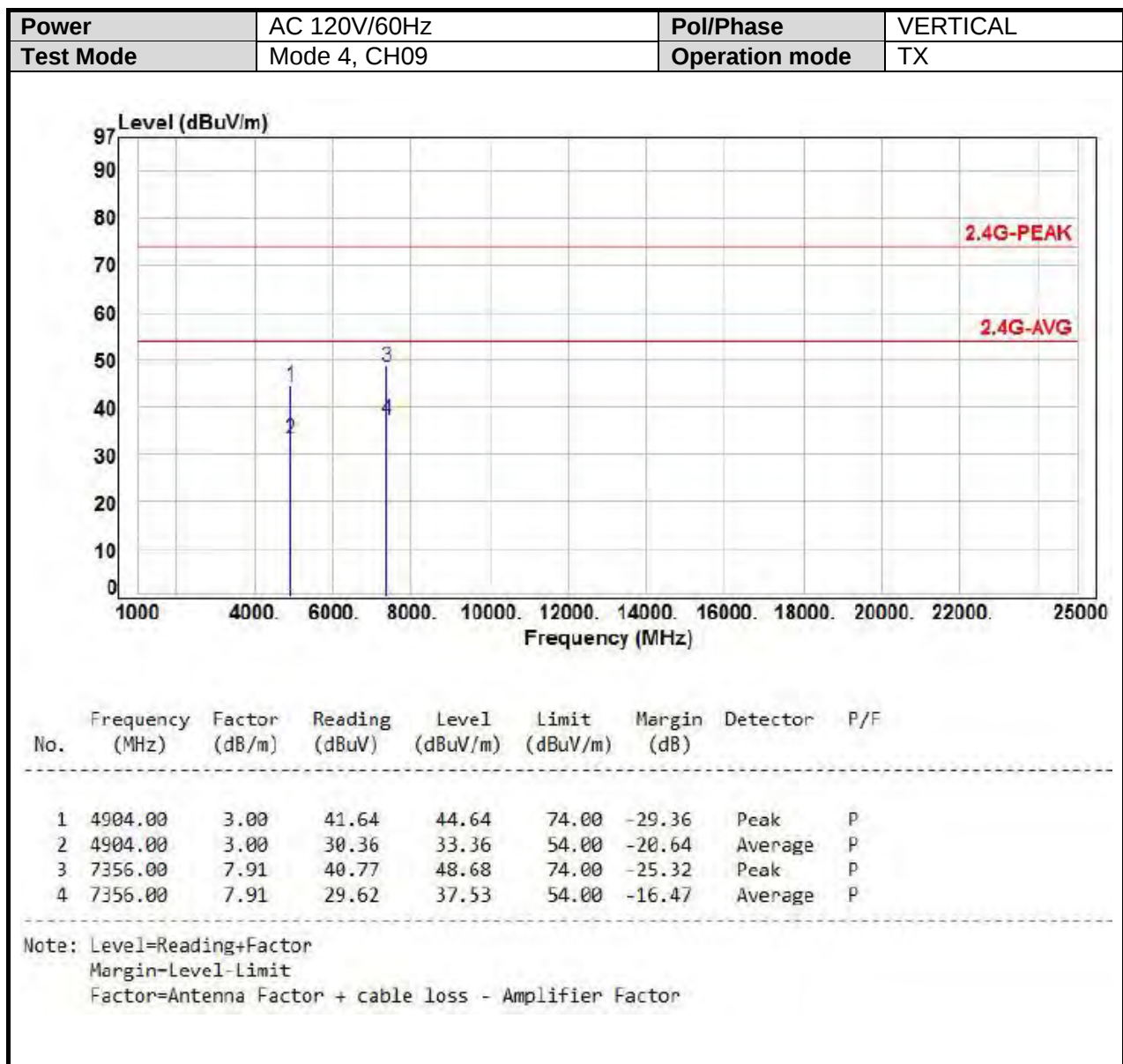


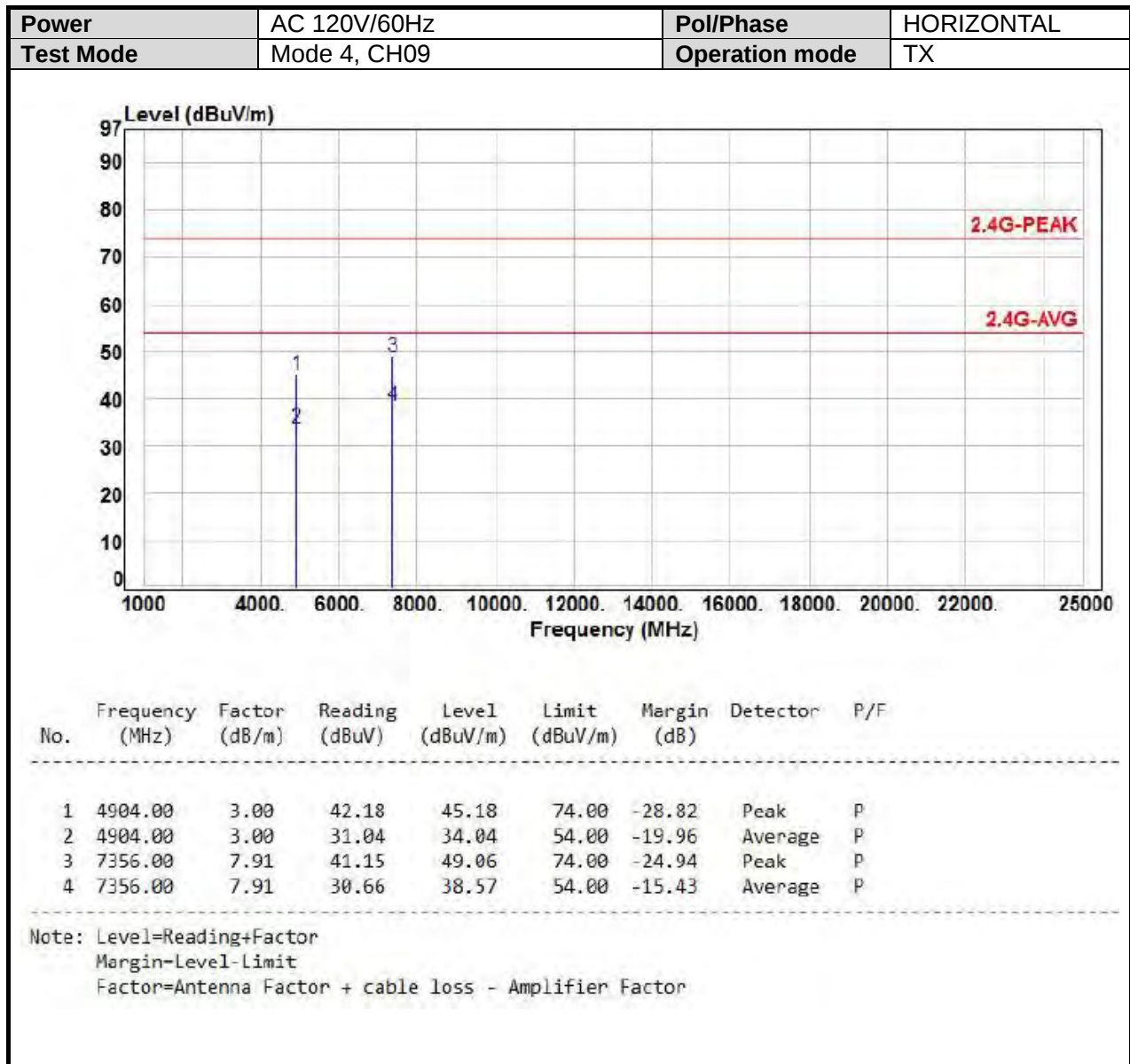














6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

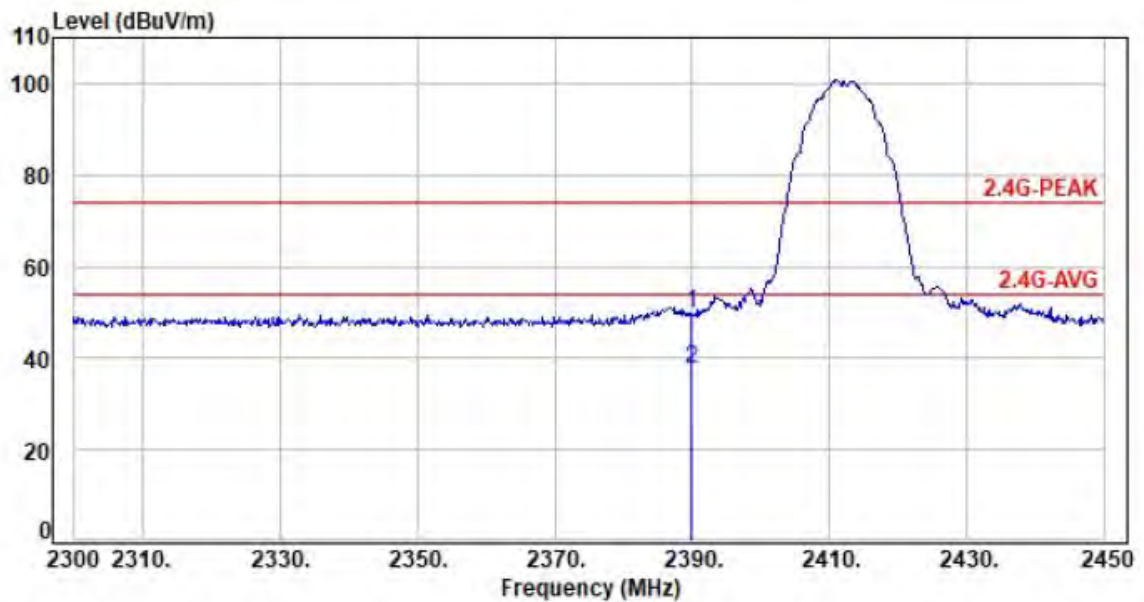
** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



6.8 Restrict Band Emission Measurement Data

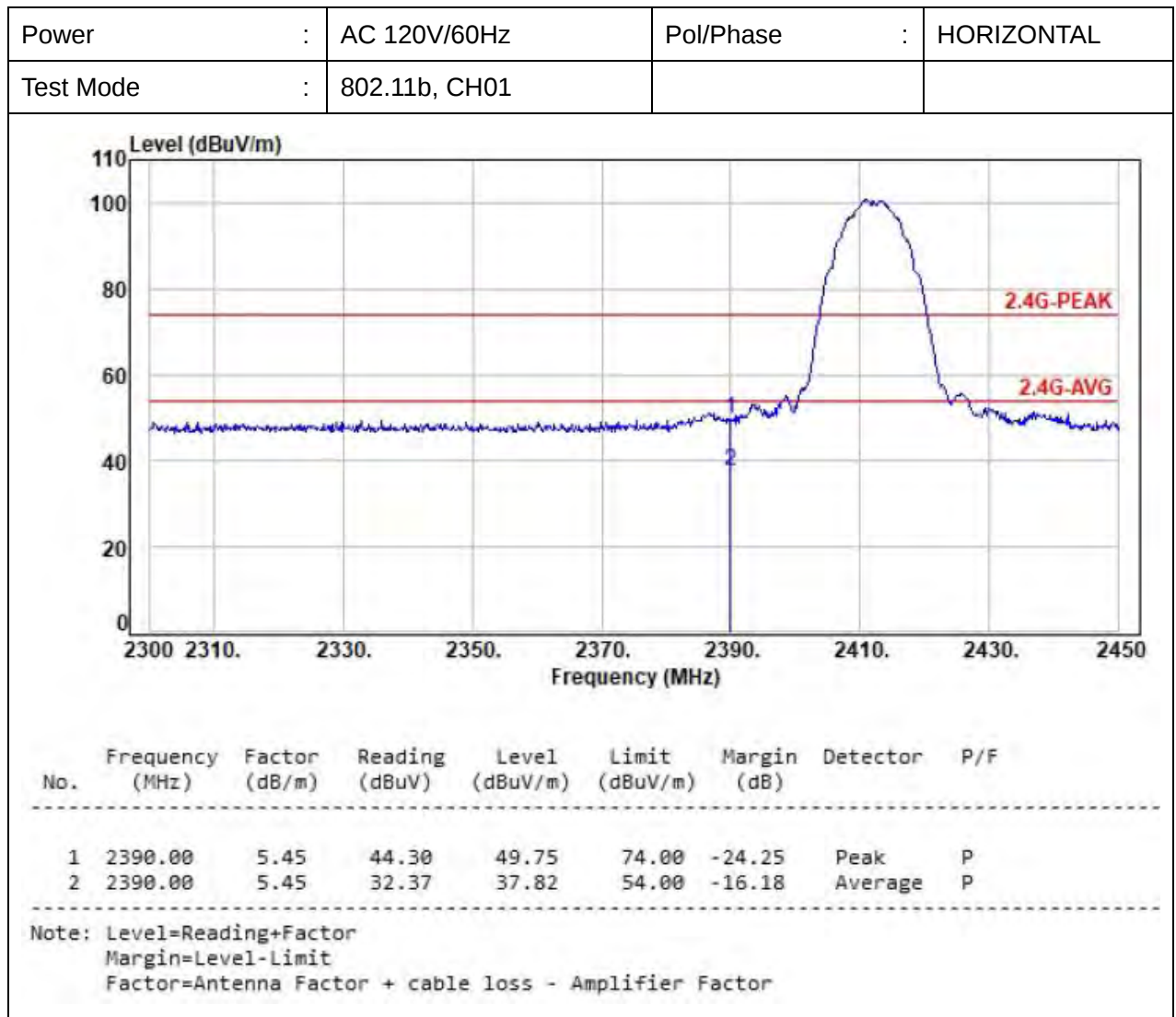
SISO-1TX-Ant B

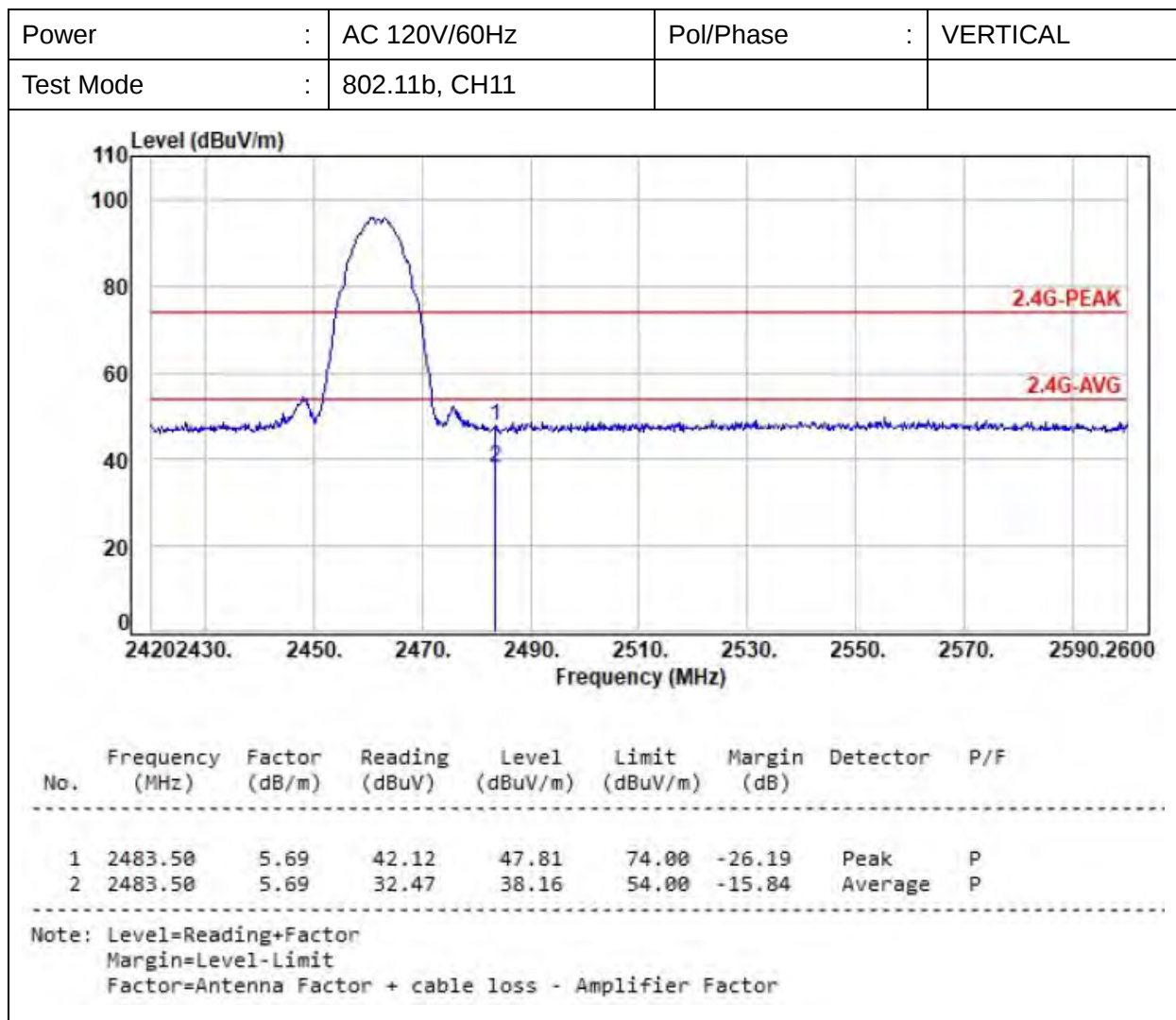
Power	:	AC 120V/60Hz	Pol/Phase	:	VERTICAL
Test Mode	:	802.11b, CH01			

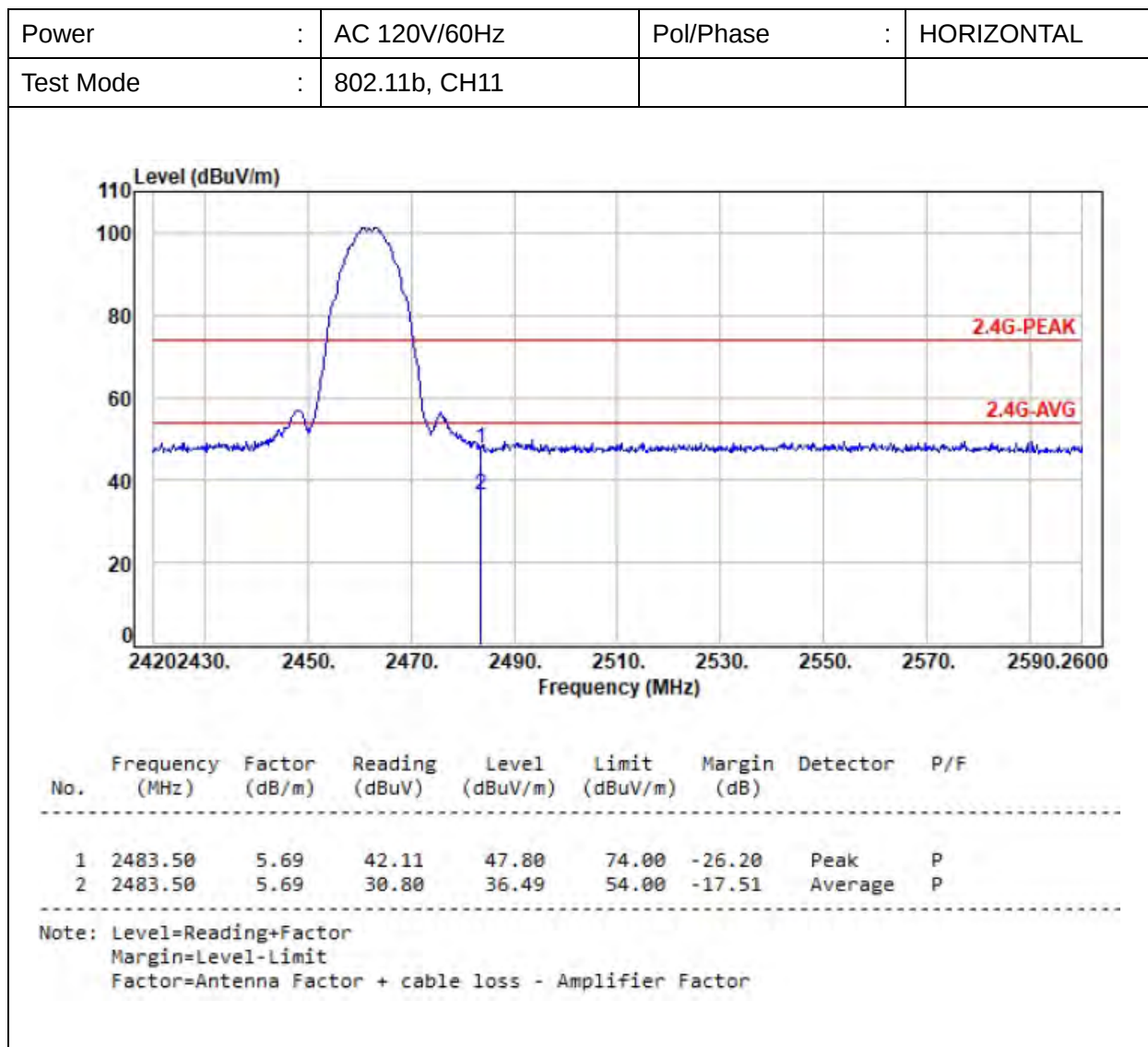


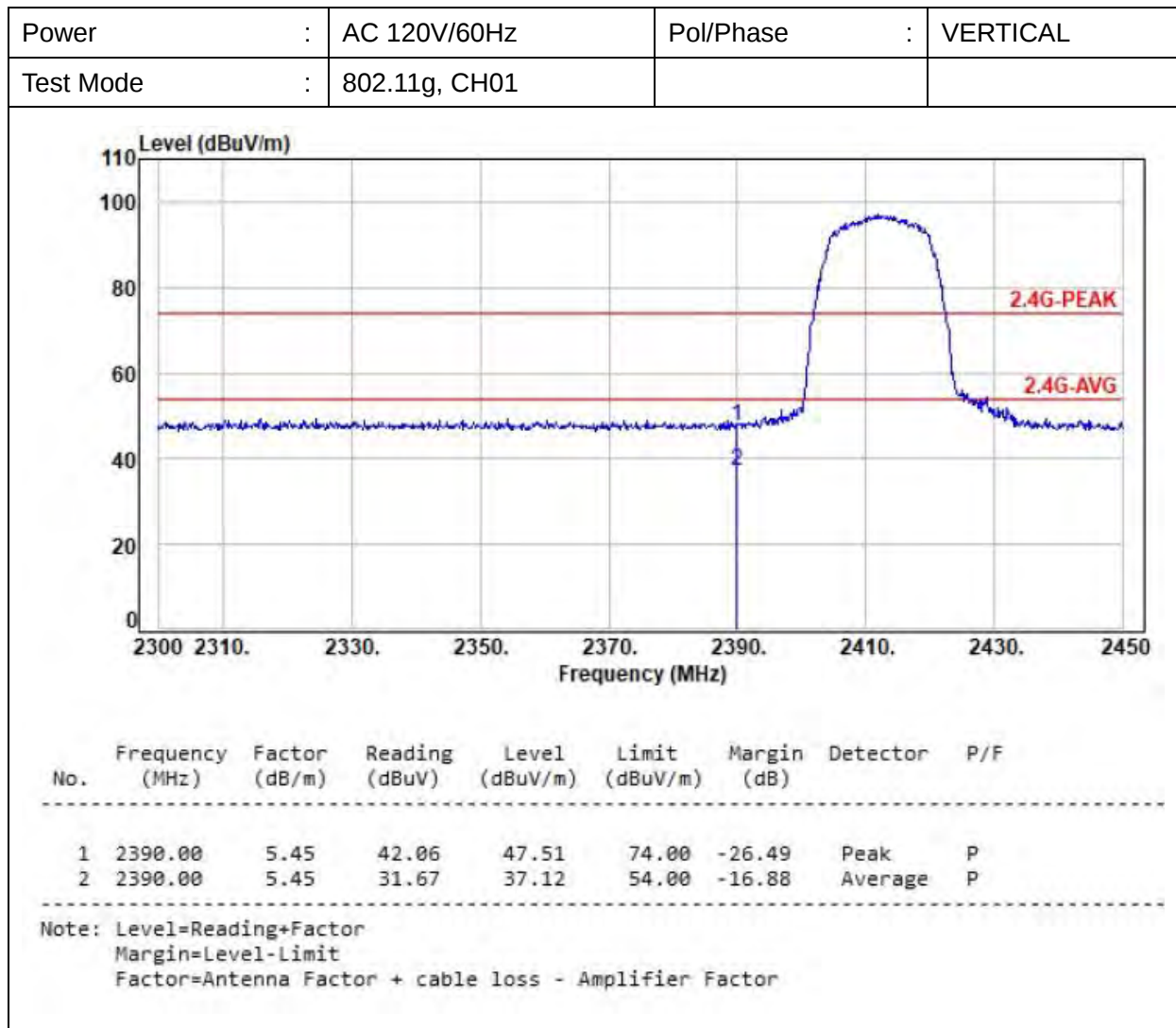
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2390.00	5.45	44.30	49.75	74.00	-24.25	Peak	P
2	2390.00	5.45	32.29	37.74	54.00	-16.26	Average	P

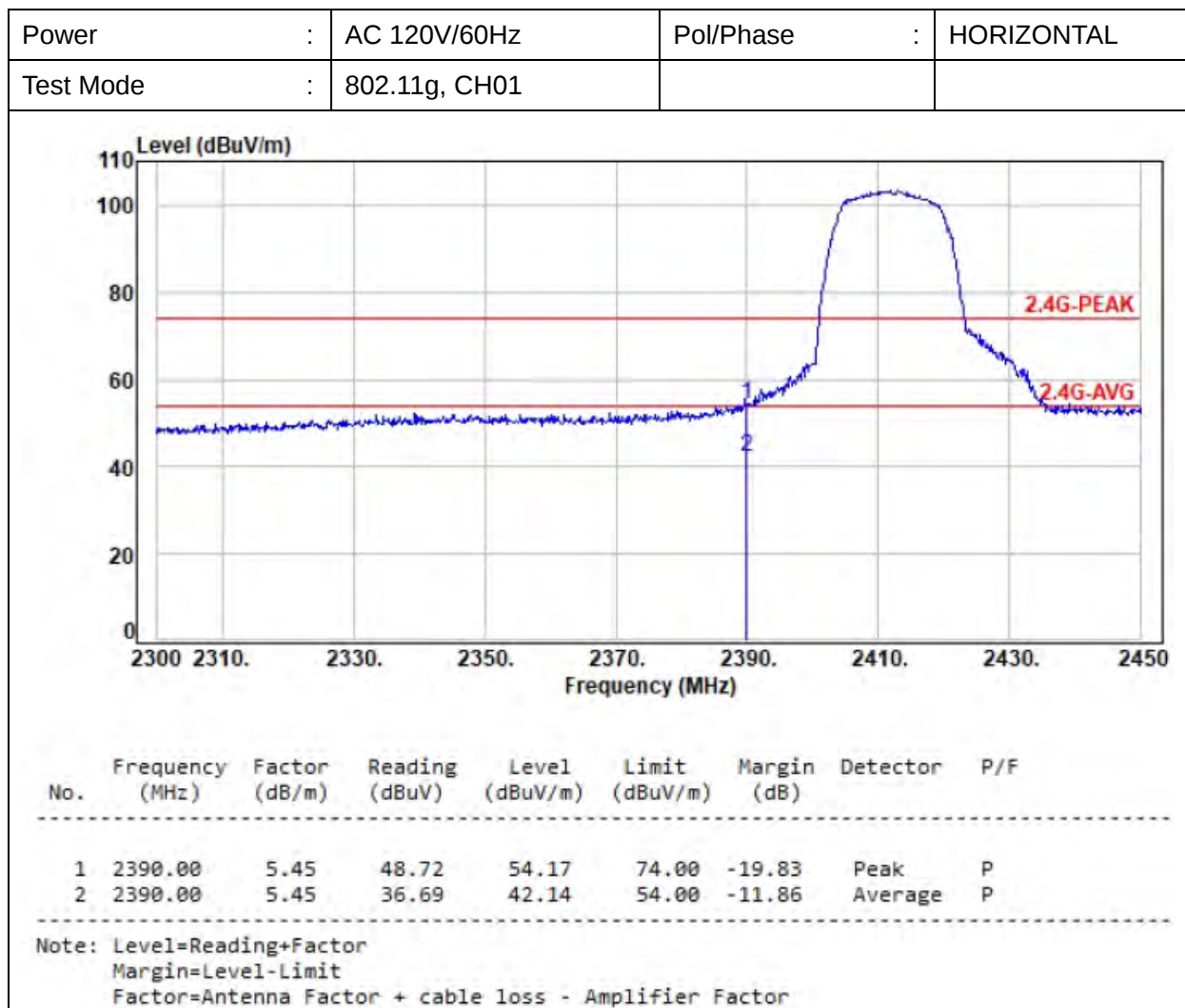
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

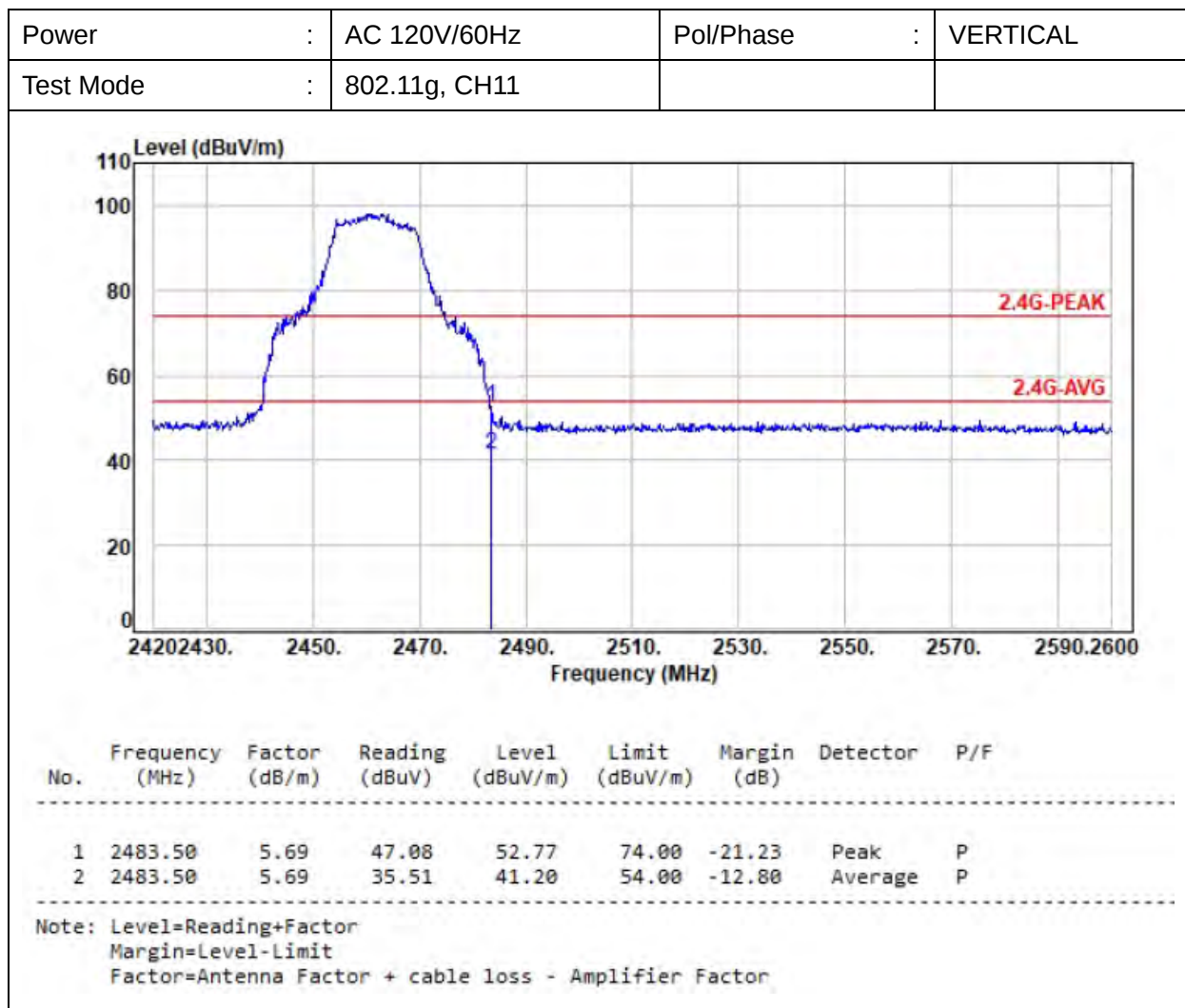


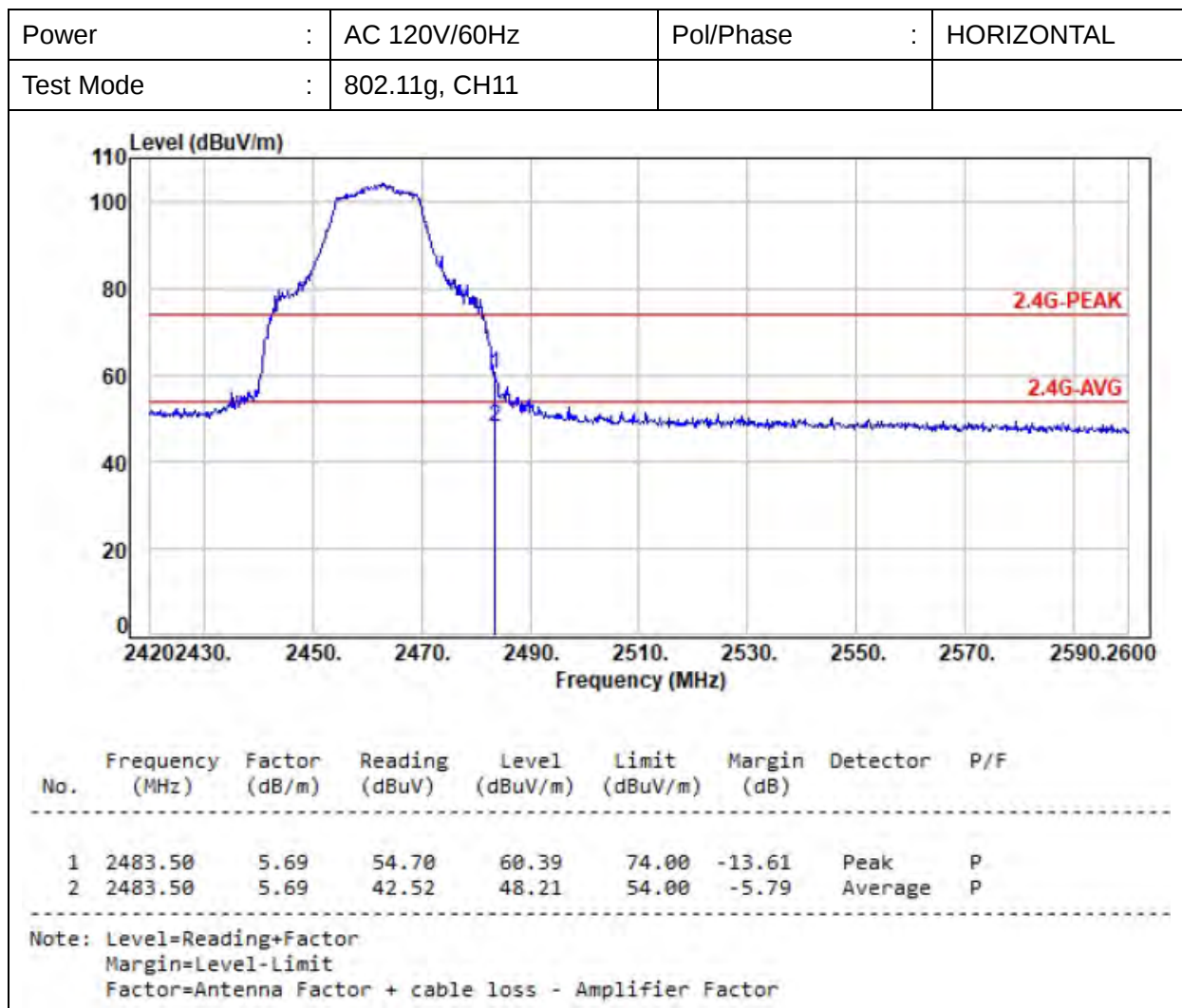








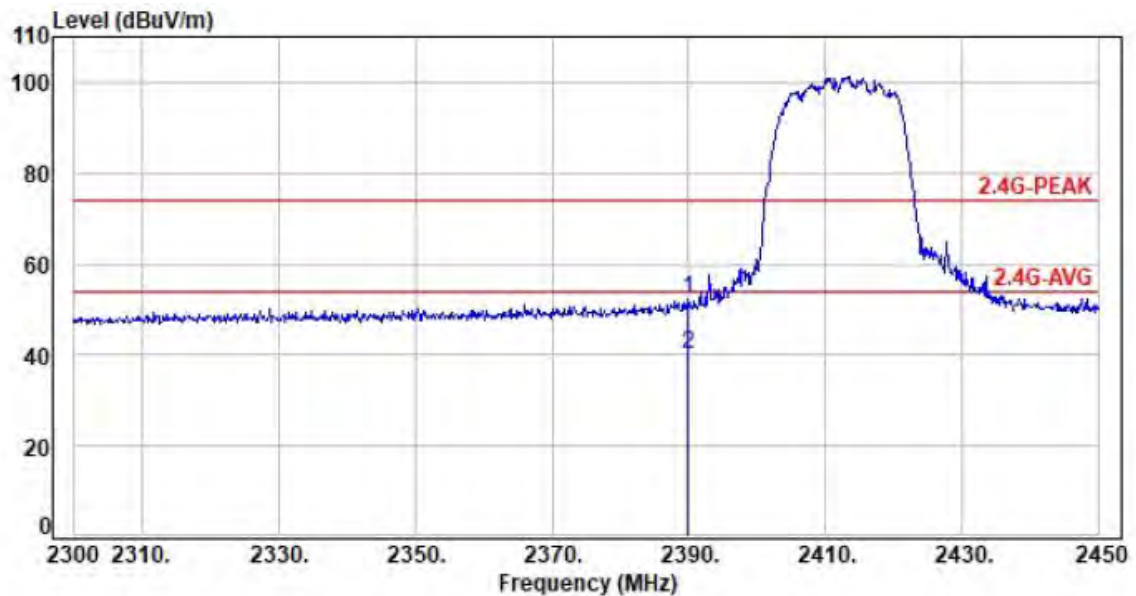






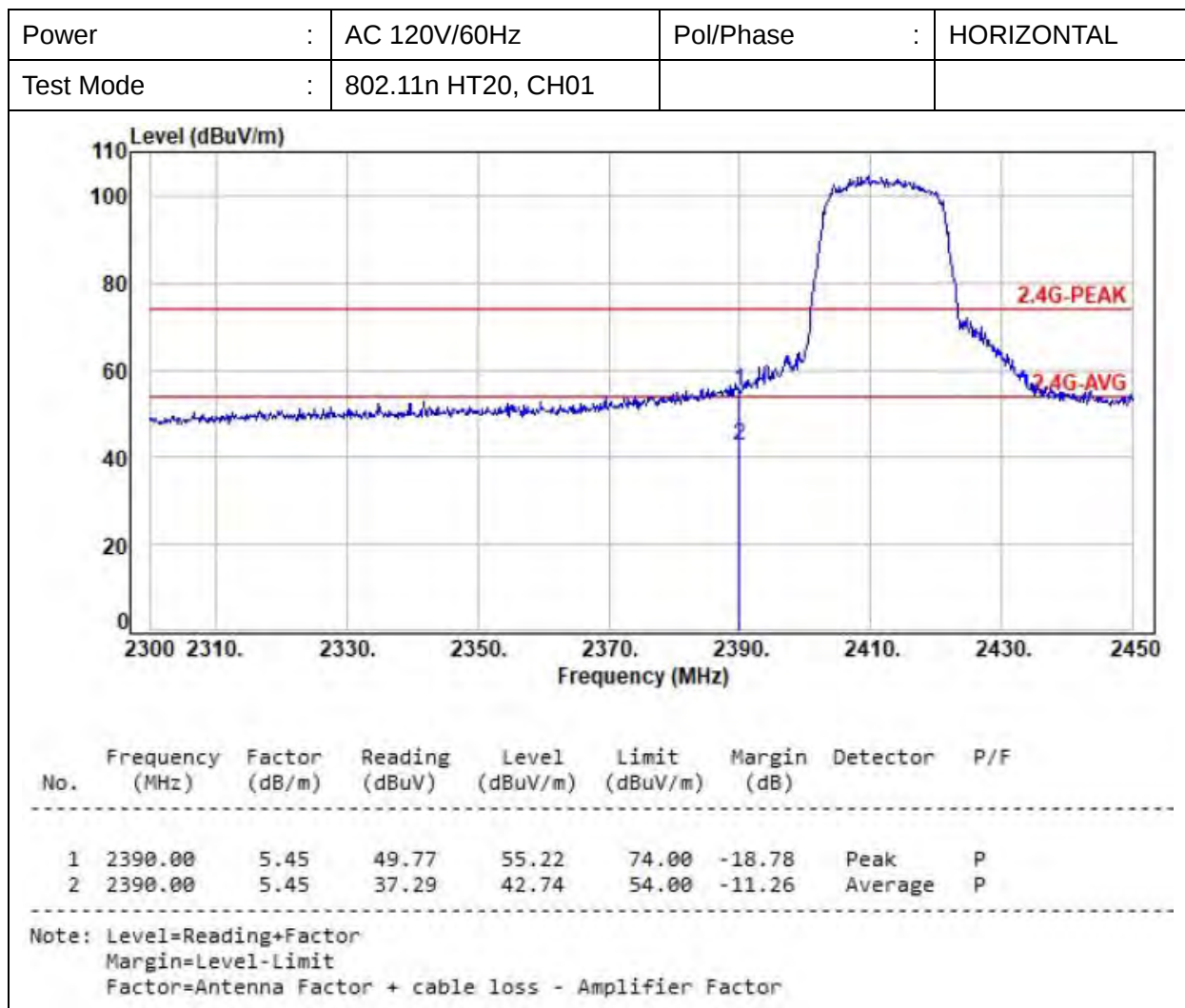
MIMO-2TX

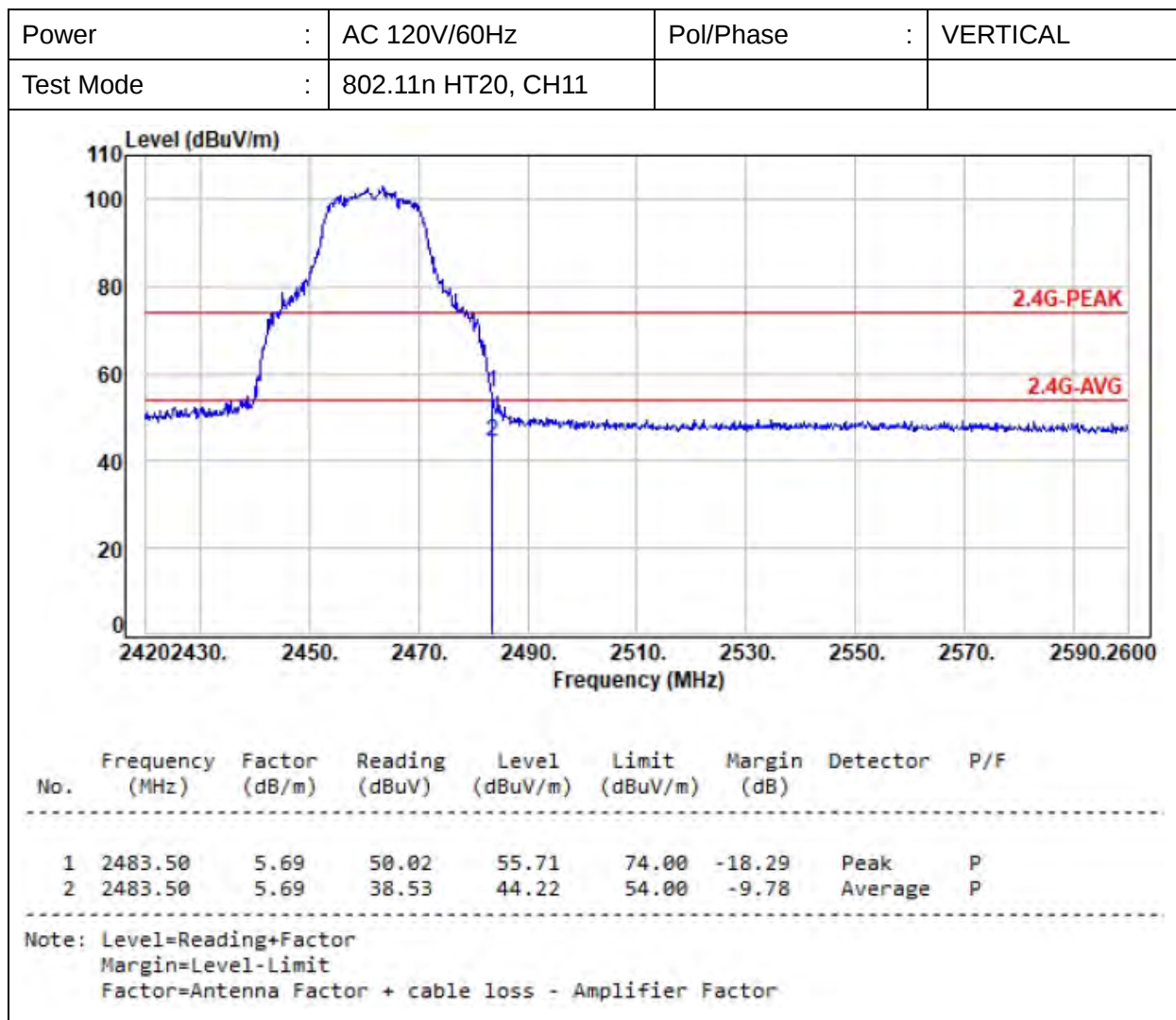
Power	: AC 120V/60Hz	Pol/Phase	: VERTICAL
Test Mode	: 802.11n HT20, CH01		

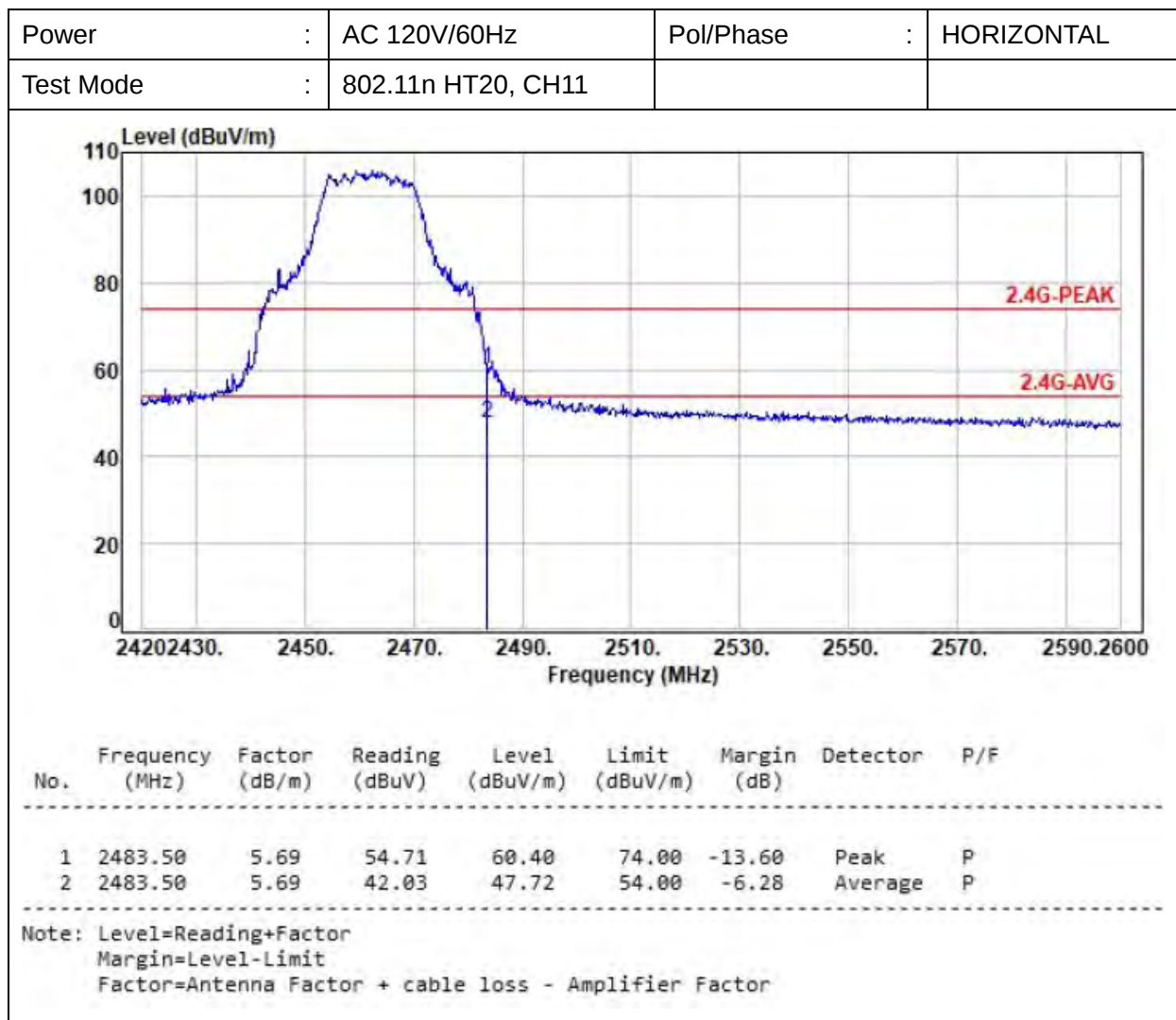


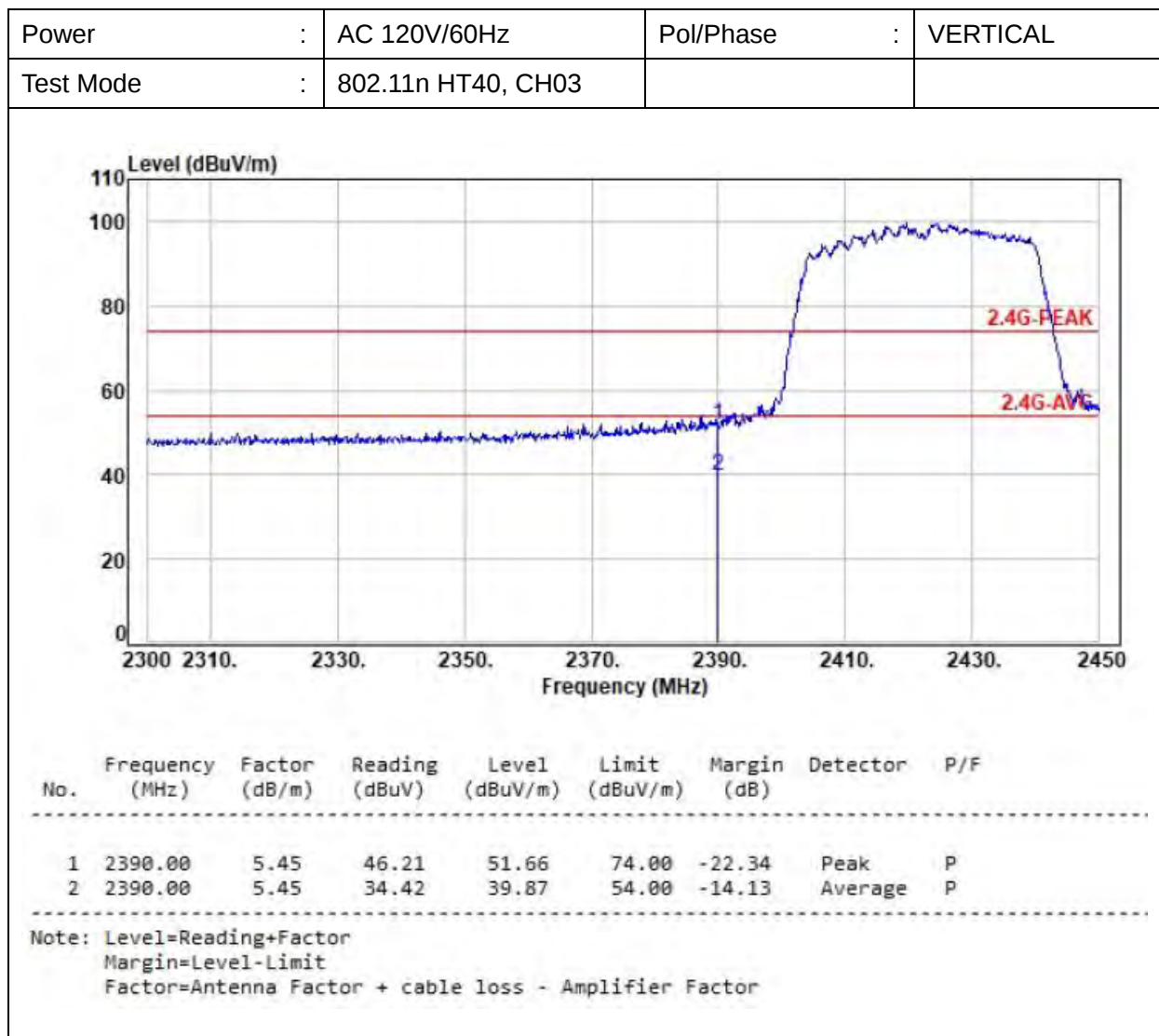
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2390.00	5.45	46.77	52.22	74.00	-21.78	Peak	P
2	2390.00	5.45	34.89	40.34	54.00	-13.66	Average	P

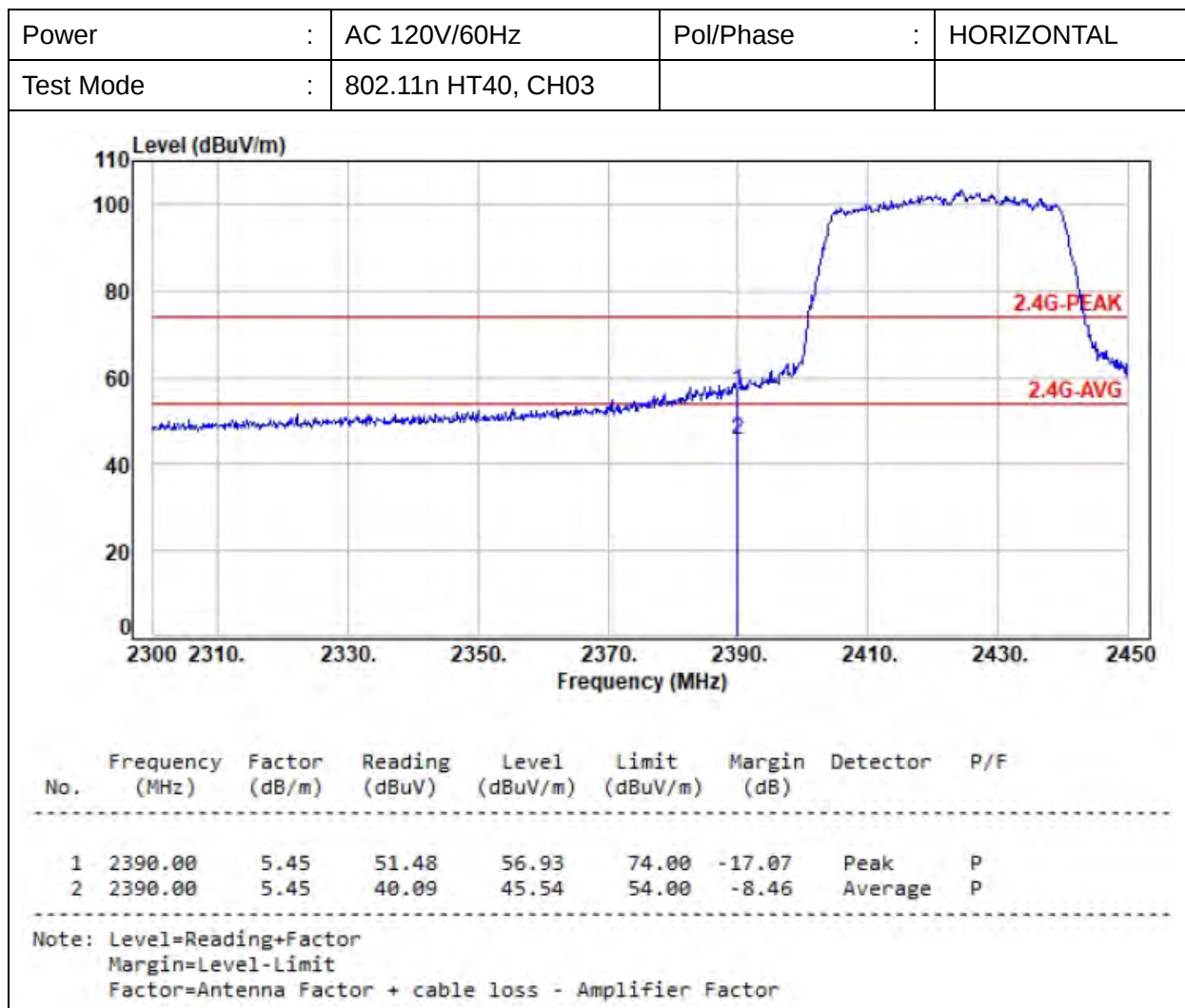
Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor

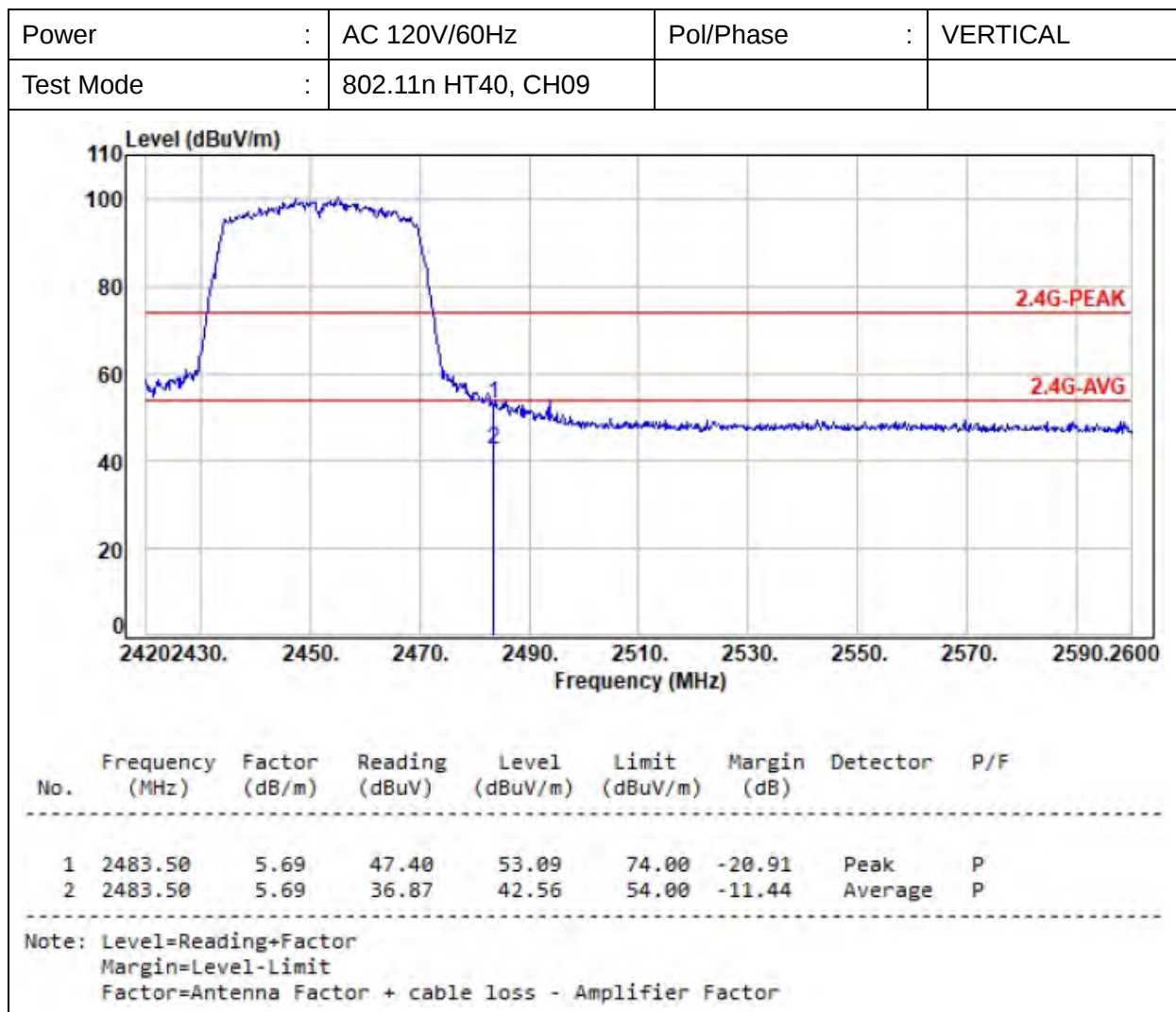


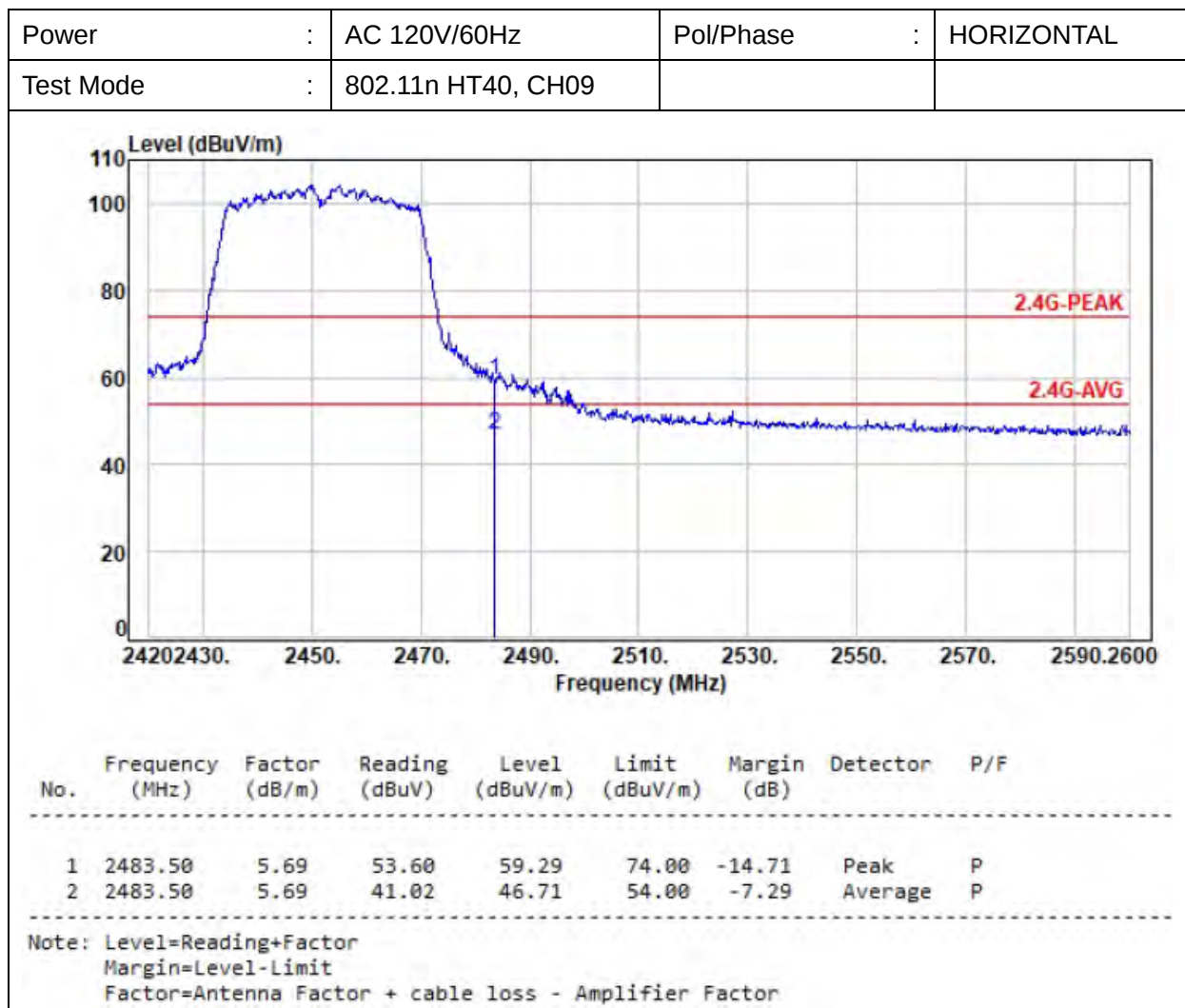


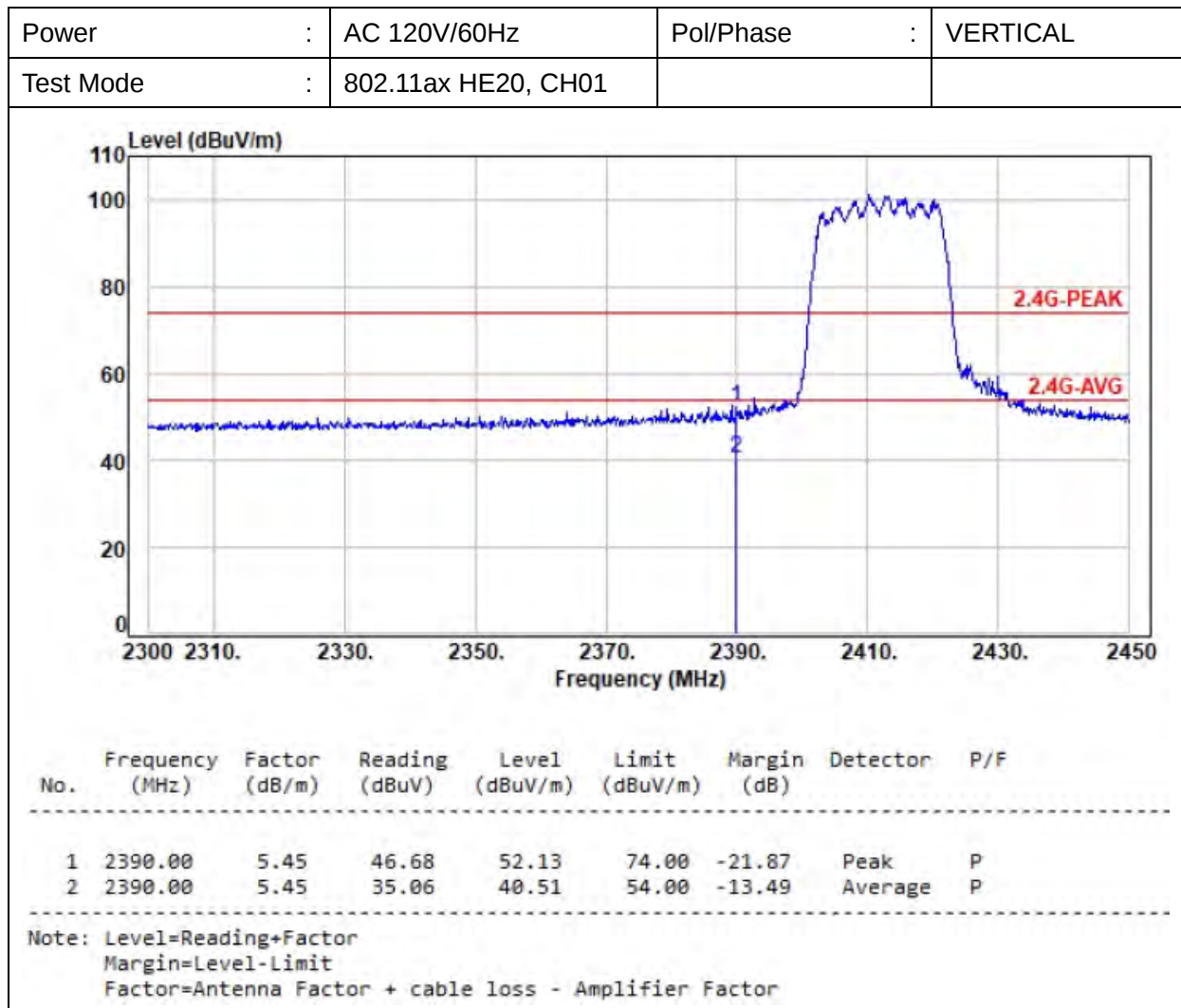


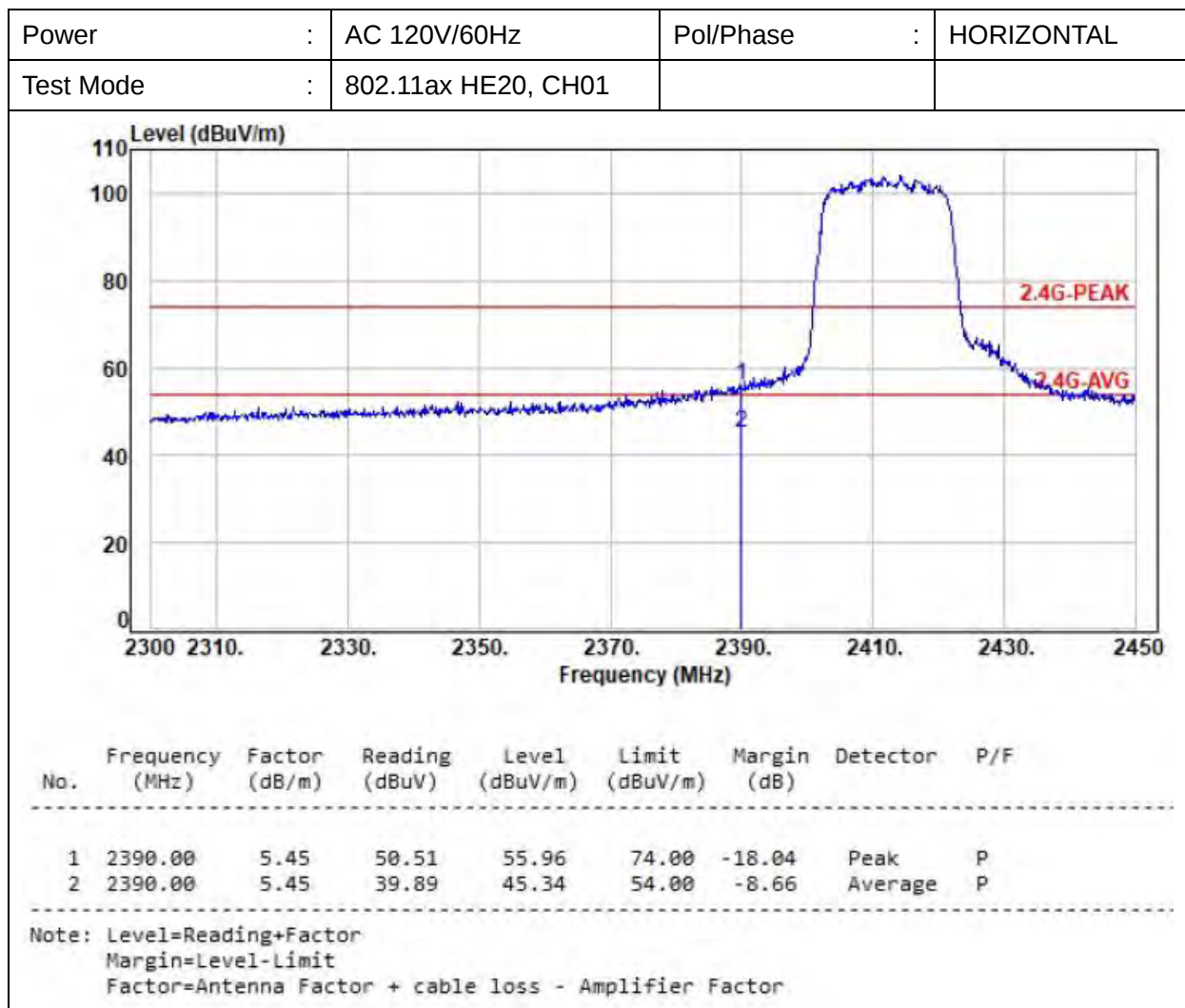


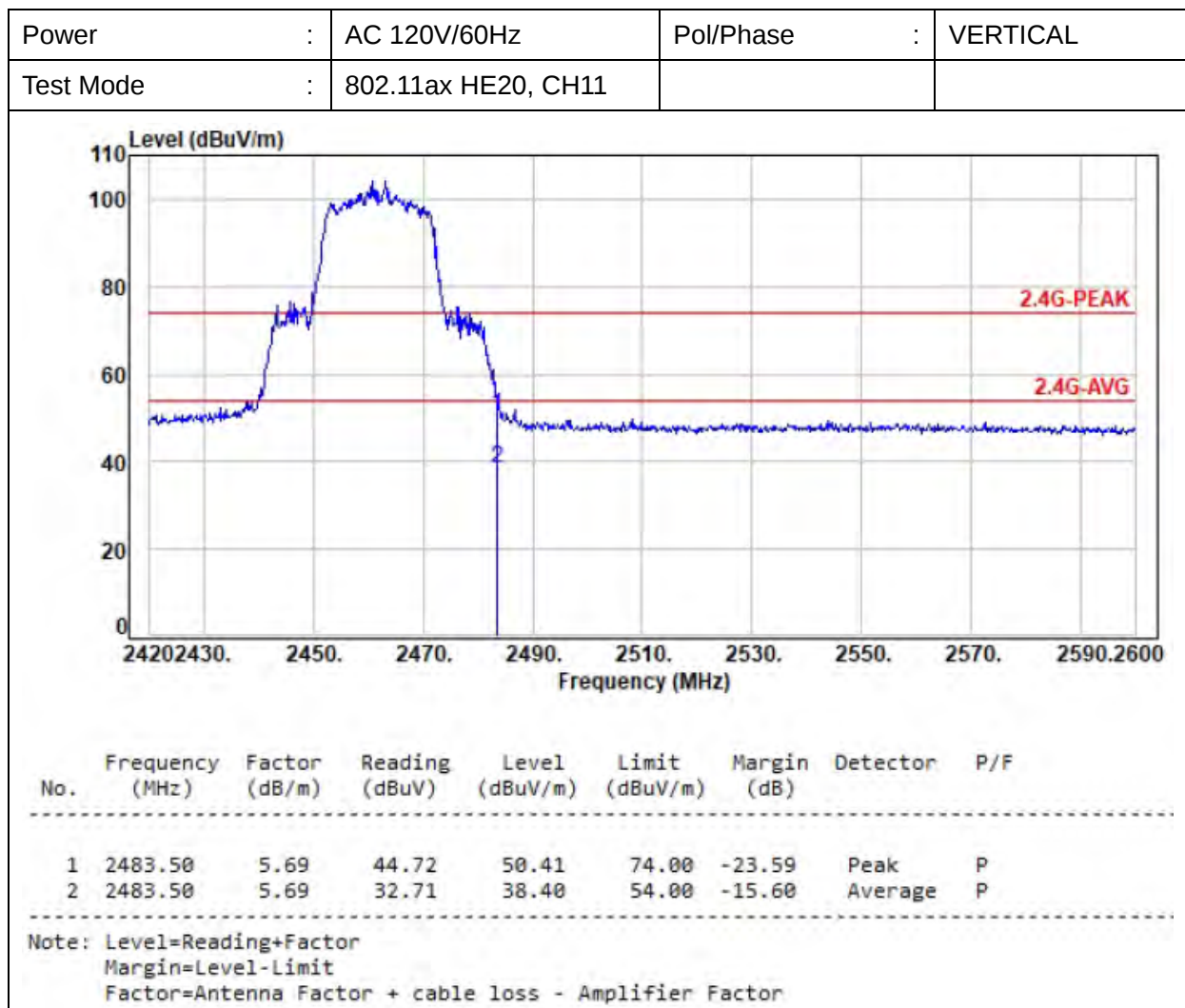


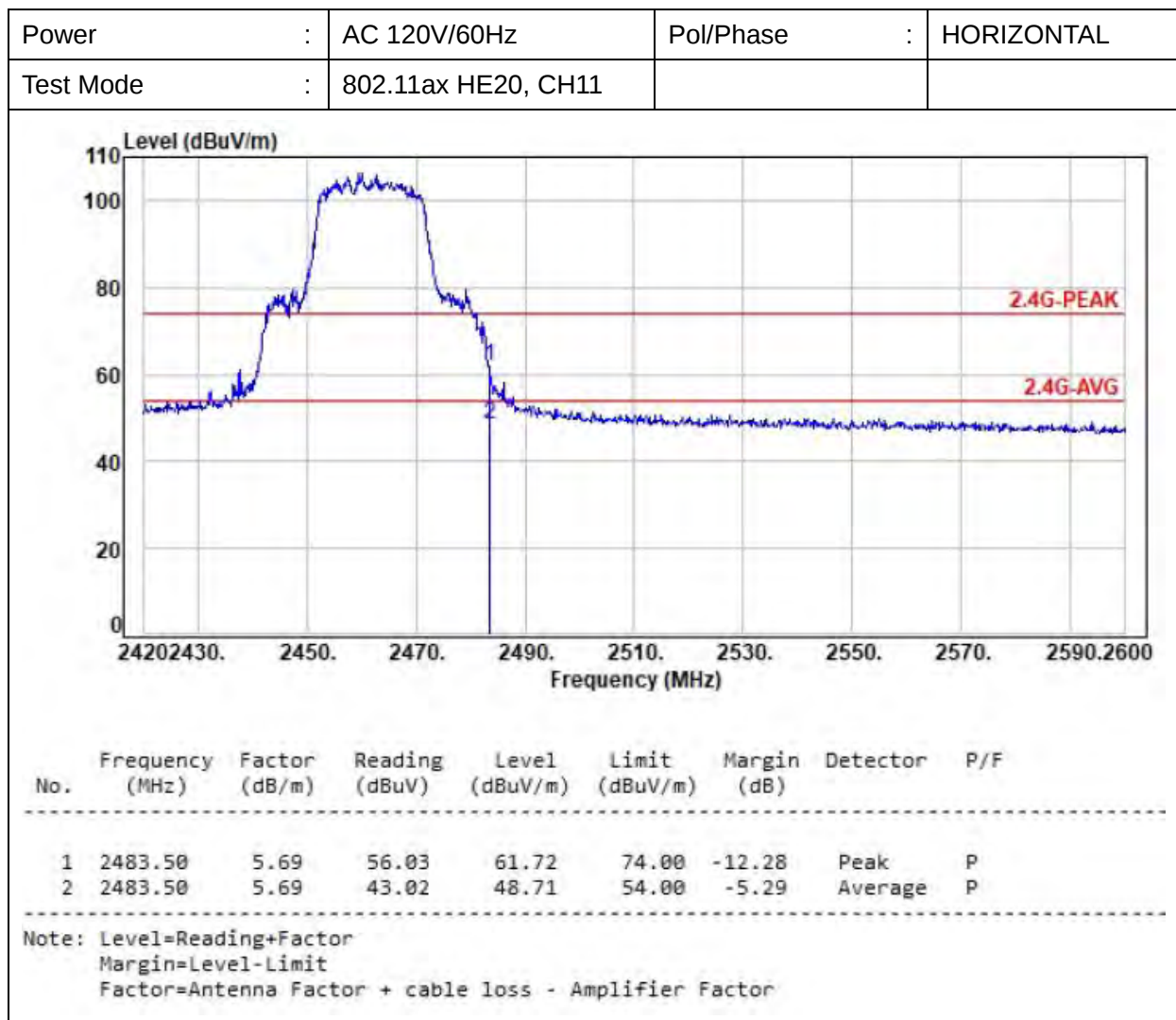


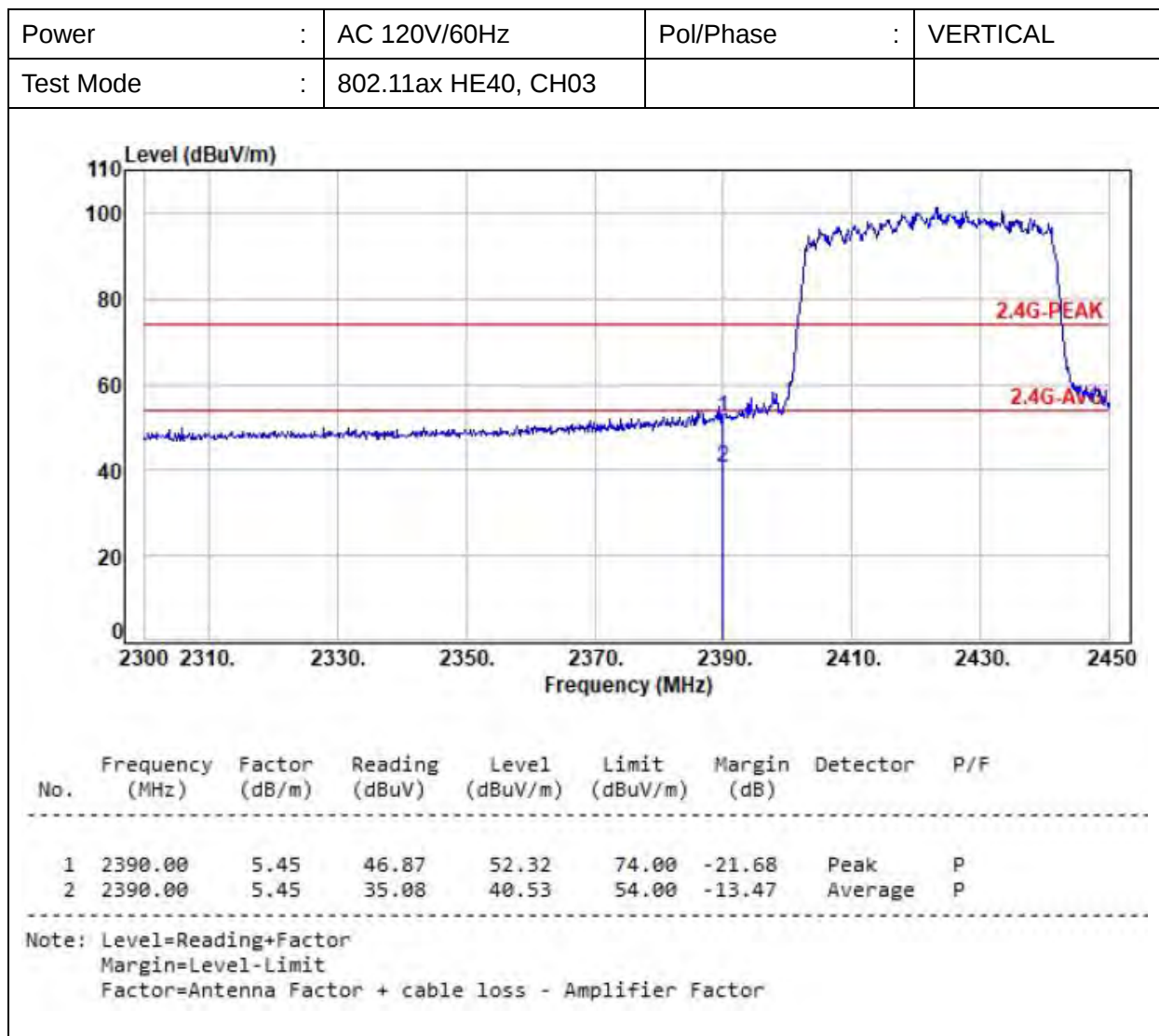


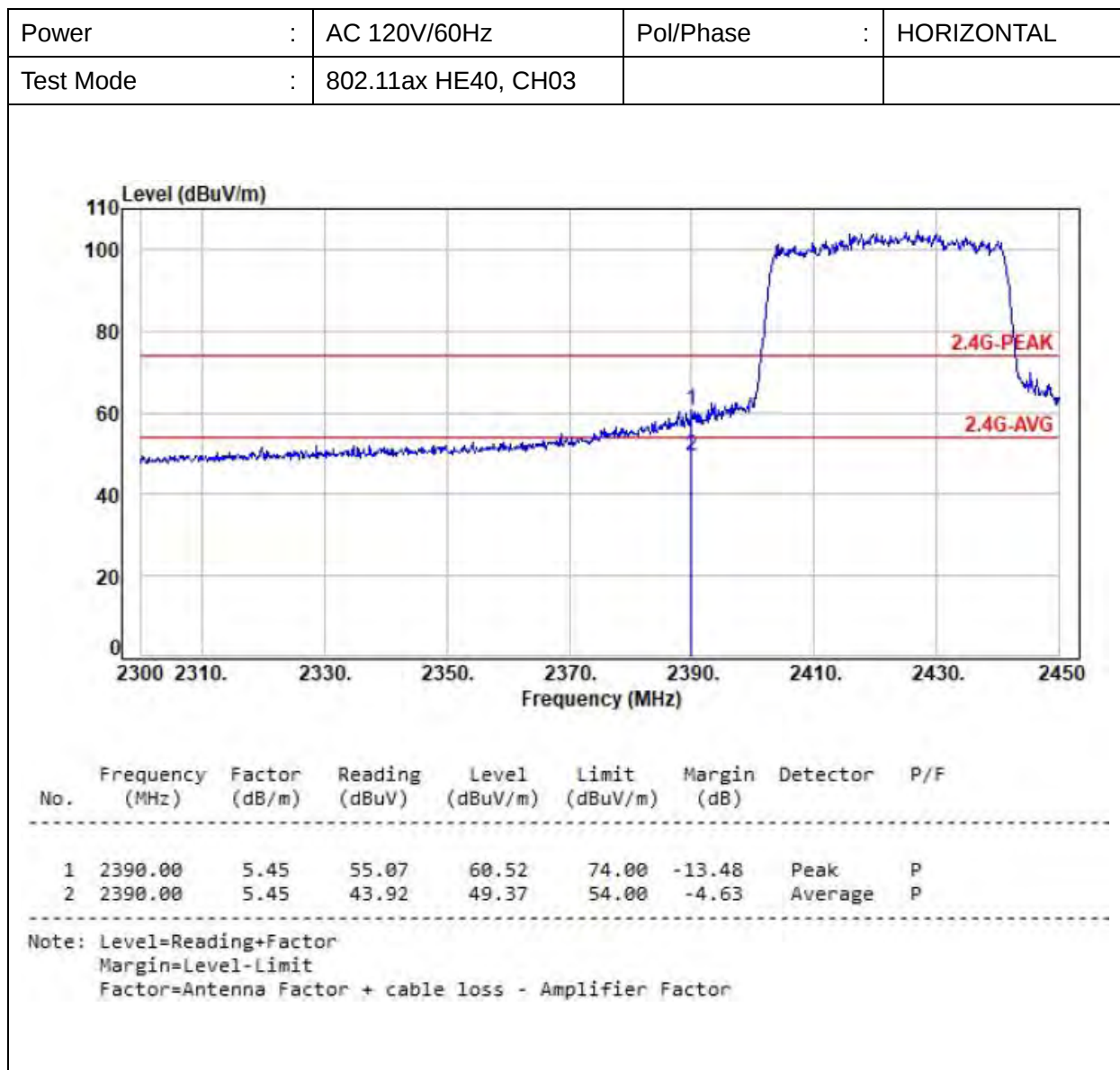


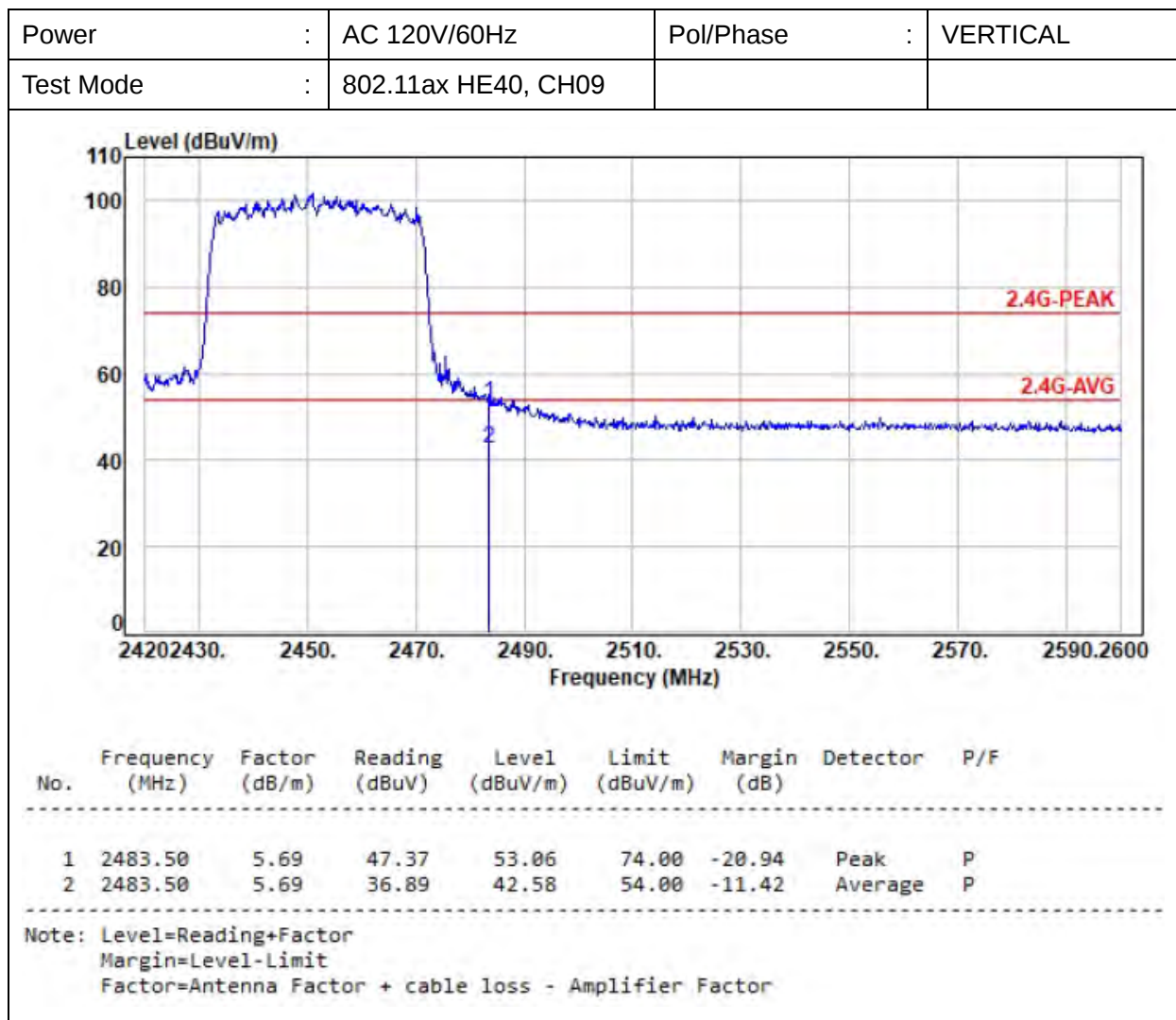


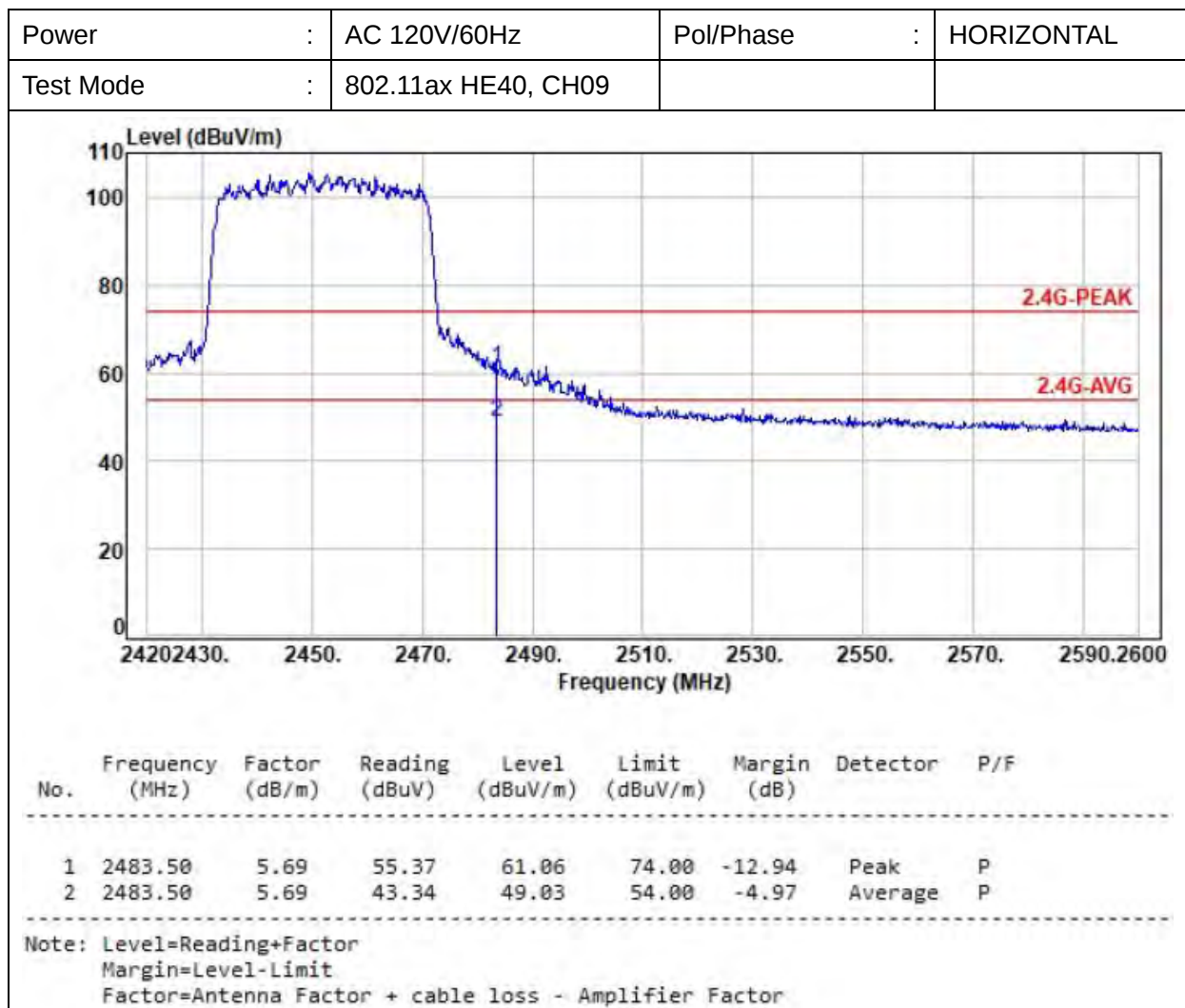














7. Test of Conducted Spurious Emission

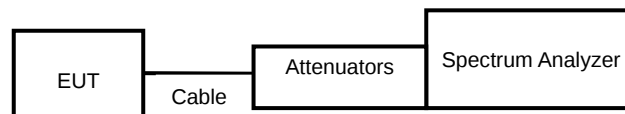
7.1 Test Limit

Below -20dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

- The transmitter output was connected to the spectrum analyzer via a low loss cable.
- Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20dB relative to the maximum measured in-band peak PSD level.
- The band edges was measured and recorded.

7.3 Test Setup Layout



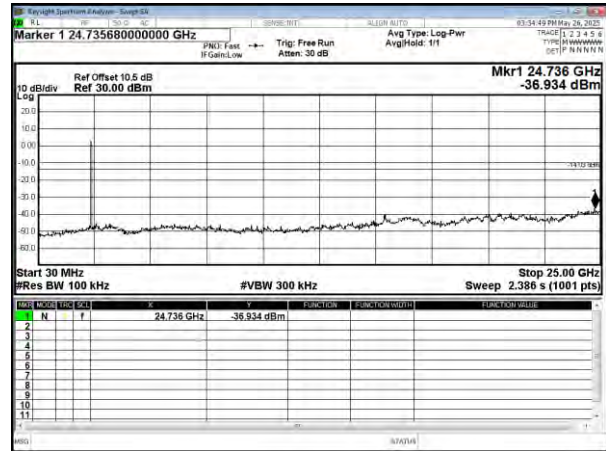
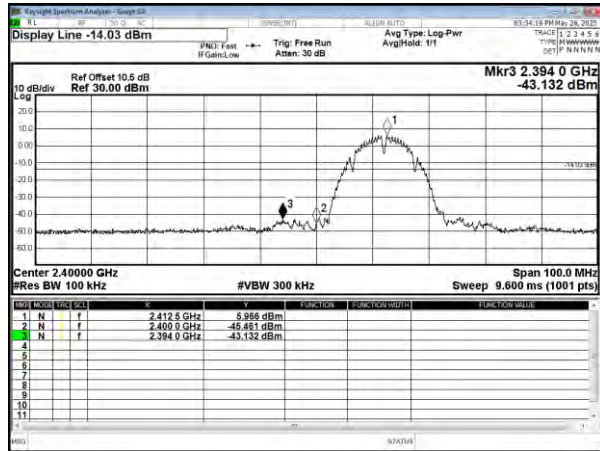
7.4 Test Result and Data

Note: Test plots refers to the following pages.

**SISO- Antenna A**

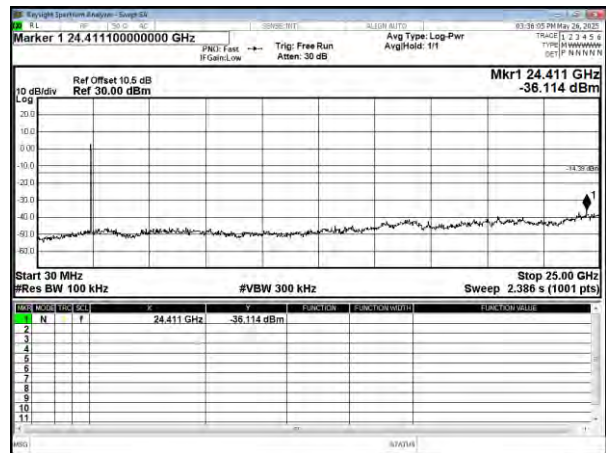
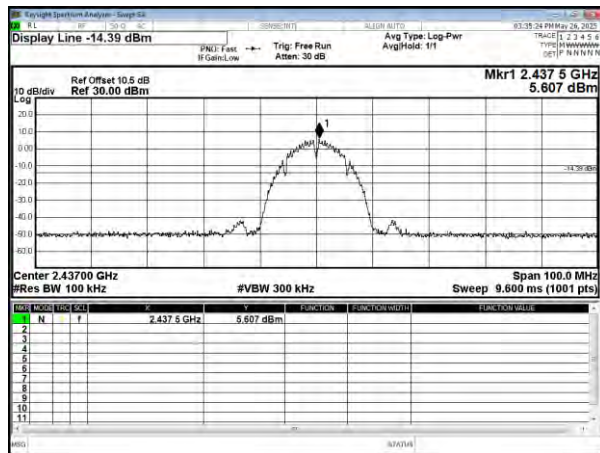
Modulation Standard: 802.11b

Channel: 01



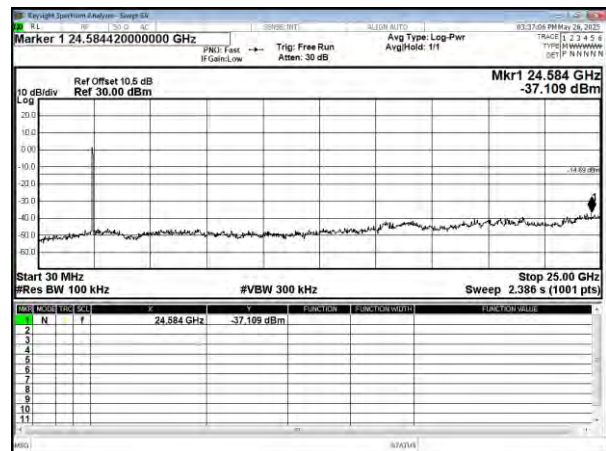
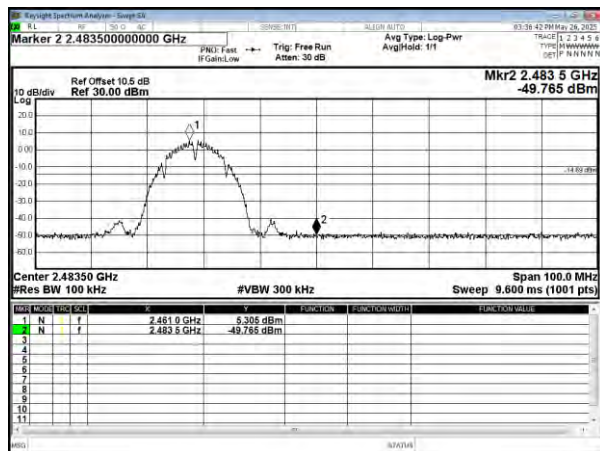
Modulation Standard: 802.11b

Channel: 06



Modulation Standard: 802.11b

Channel: 11





HP Keyight Spectrum Analyzer - Sweep CA

W XL NF SW G AC (SELECT)

Align AUTO

63-41:25 PM May 26, 2025

Marker 3 2.399700000000 GHz

PN1: Freq --> Trig: Free Run

Avg Type: Log Pwr

Ref Offset 10.5 dB

Ref 30.0 dBm

Attenu: 30 dB

Avg Hold: 11

Trace 1 2 3 5

Time: 0.000000000000

Det: N N N N N

Mkr3 2.399 7 GHz

-42.382 dBm

10 dB/div

Ref Offset 10.5 dB

Ref 30.0 dBm

1

3

10

20

30

40

50

60

70

80

90

100

110

120

130

140

150

160

170

180

190

200

210

220

230

240

250

260

270

280

290

300

310

320

330

340

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360

370

380

390

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410

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430

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460

470

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510

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660

670

680

690

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710

720

730

740

750

760

770

780

790

800

810

820

830

840

850

860

870

880

890

900

910

920

930

940

950

960

970

980

990

1000

1010

1020

1030

1040

1050

1060

1070

1080

1090

1100

1110

1120

1130

1140

1150

1160

1170

1180

1190

1200

1210

1220

1230

1240

1250

1260

1270

1280

1290

1300

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2790

2800

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2850

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2890

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2990

3000

3010

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4010

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4080

4090

4100

4110

4120

4130

4140

4150

4160

4170

4180

4190

4200

4210

4220

4230

4240

4250

4260

4270

4280

4290

4300

4310

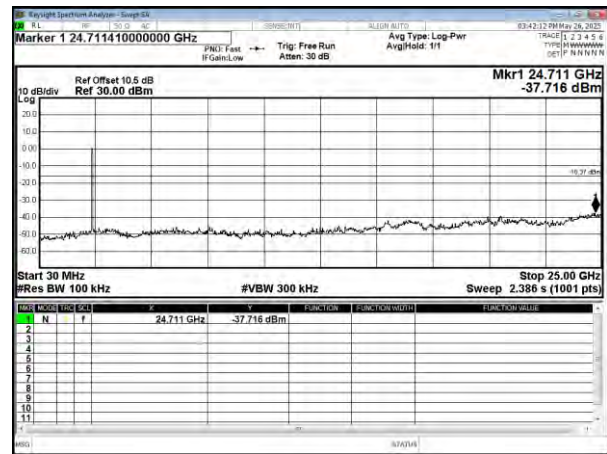
4320

4330

4340

4350

4360



KeyStim Spectrum Analyzer Sweep 24

W XL MF S0 S1 S2

Display Line -16.53 dBm

FNU Test Trig: Free Run Atten: 30 dB

ALG: AUTO

Avg Type: Log-Pwr AvgHold: 1/1

03:42:47 PM Mar 28, 2025

Trace 1 2 3 4 5 Type Draw Wave Set 1 N N N N N

Ref Offset 10.5 dB Ref 30.00 dBm

Mkr1 2.438 3 GHz 3.471 dBm

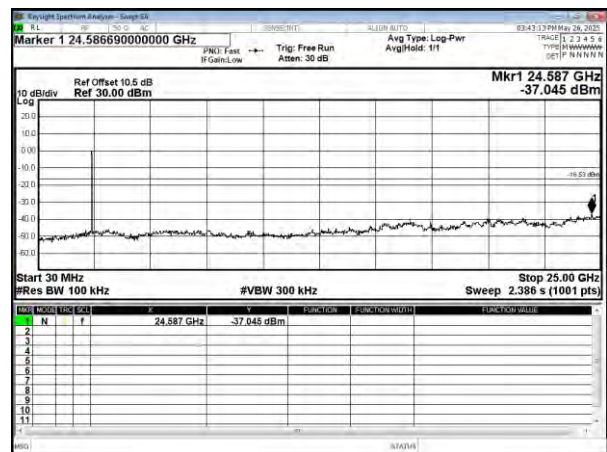
10 dB/div

Log

Center 2.43700 GHz #VBW 300 kHz Span 100.0 MHz

Res BW 100 kHz Sweep 9.688 ms (1001 pts)

PK	Marker	Label	Freq	Amplitude	Function	Function Width	Function Value
1	N	1	2.438 3 GHz	3.471 dBm			
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							



Marker 2 2.483500000000 GHz

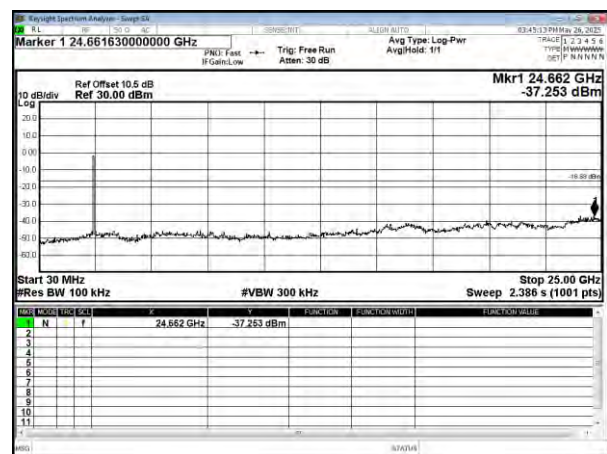
Ref Offset 10.6 dB
Ref 30.00 dBm

Mkr2 2.483 5 GHz
-47.837 dBm

Center 2.48350 GHz
#VBW 300 kHz
Sweep 9.600 ms (1001 pts)

Span 100.0 MHz

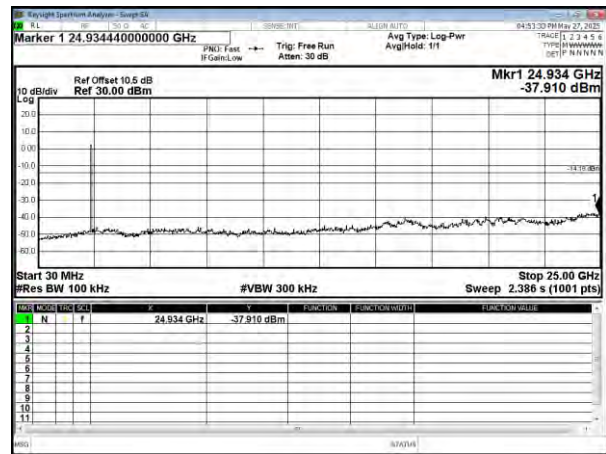
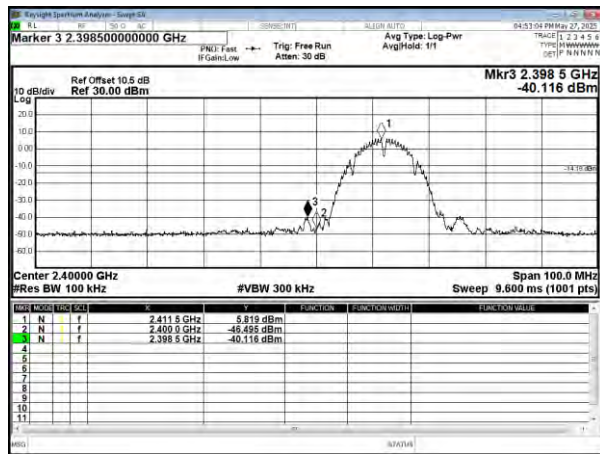
FREQ	MAGN	FUNC	UNIT
2.483 3 GHz	3.319 dBm		
2.483 5 GHz	-47.837 dBm		



**SISO-Antenna B**

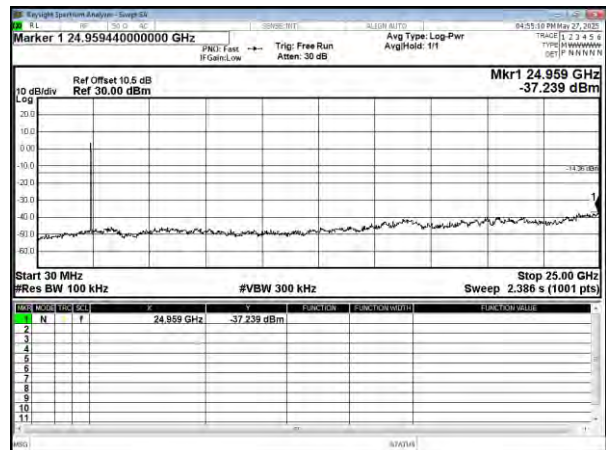
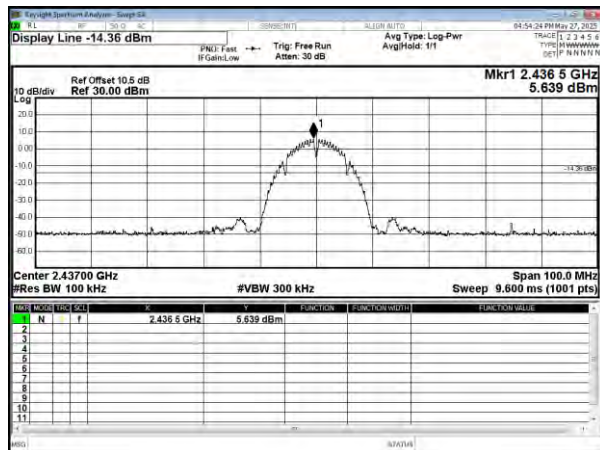
Modulation Standard: 802.11b

Channel: 01



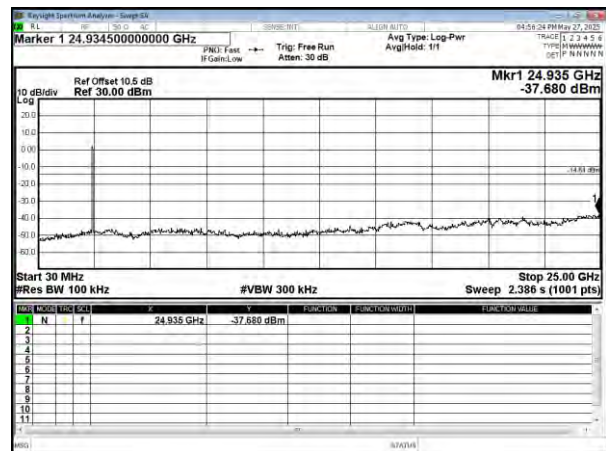
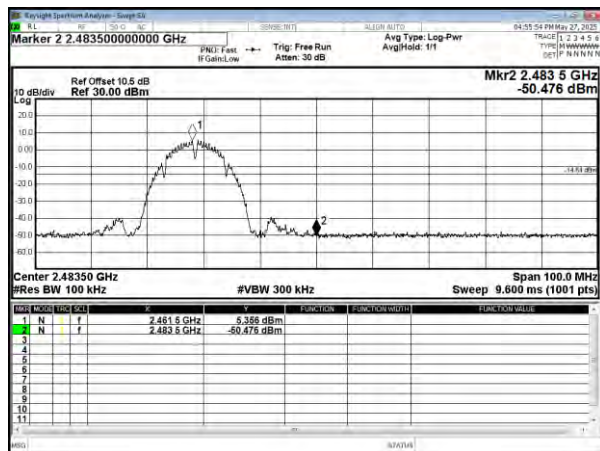
Modulation Standard: 802.11b

Channel: 06



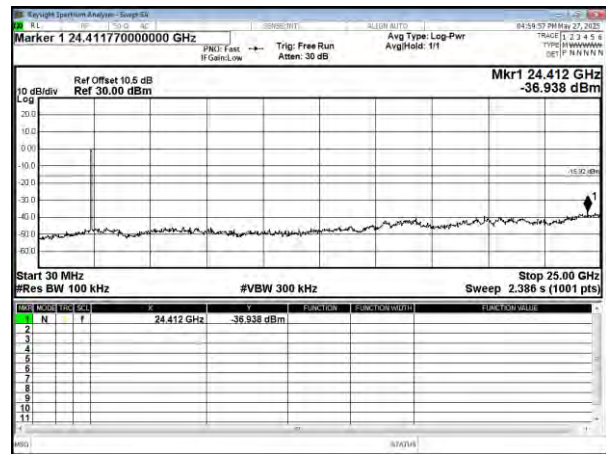
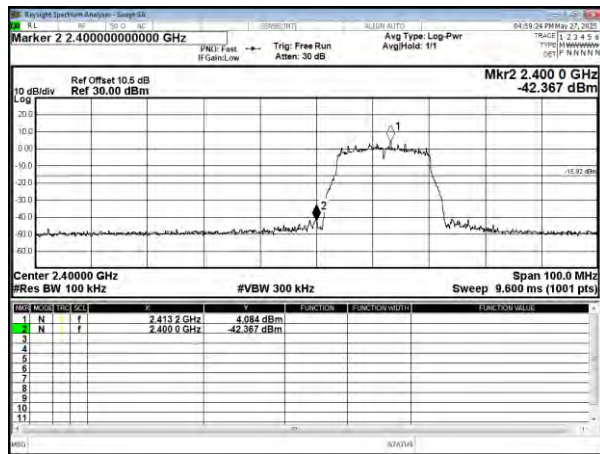
Modulation Standard: 802.11b

Channel: 11

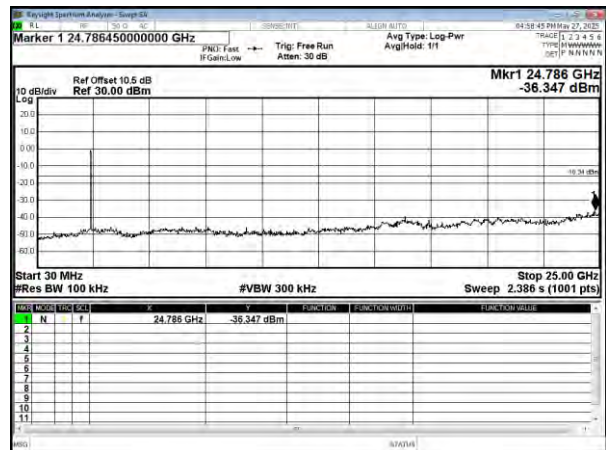
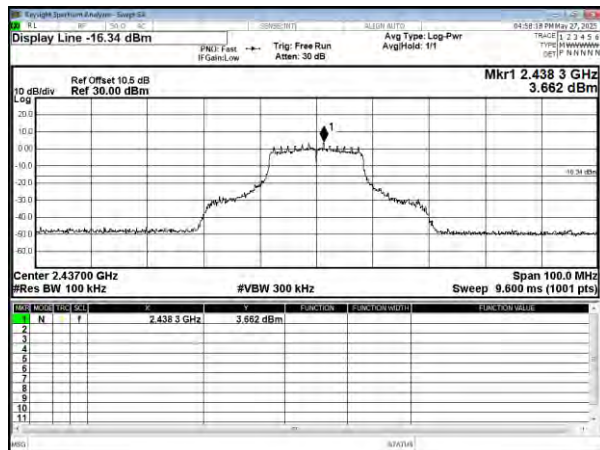




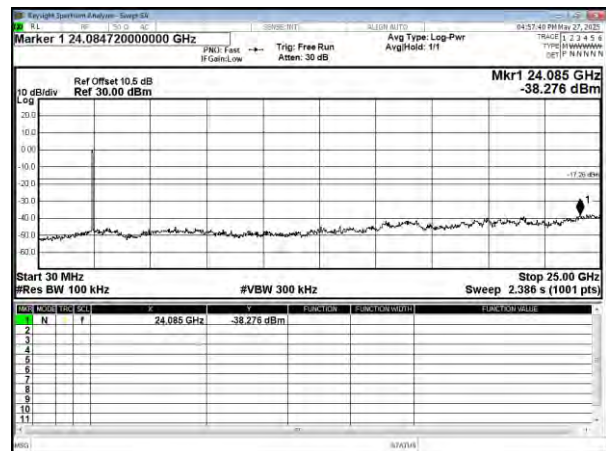
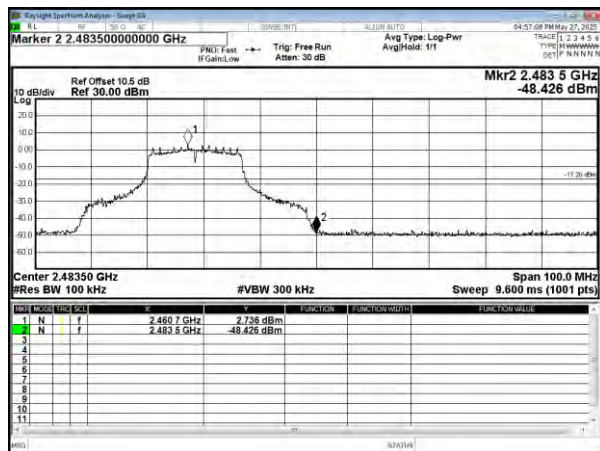
Modulation Standard: 802.11g
Channel: 01



Modulation Standard: 802.11g
Channel: 06



Modulation Standard: 802.11g
Channel: 11

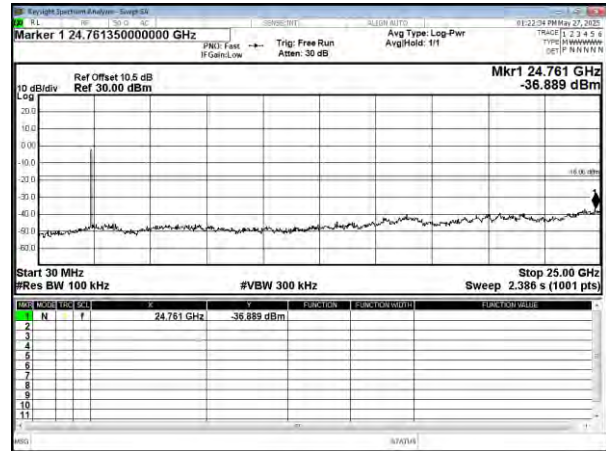
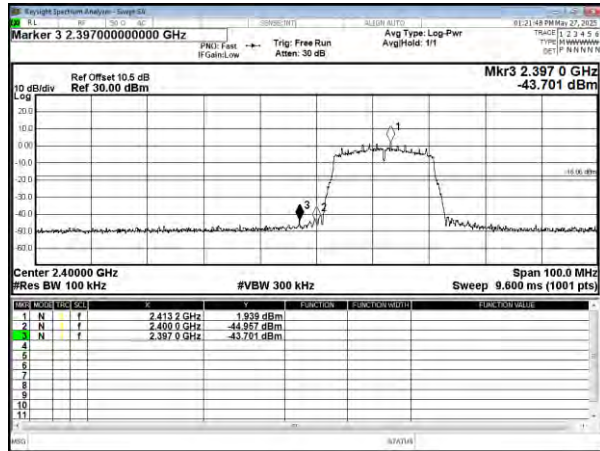




MIMO-Antenna A

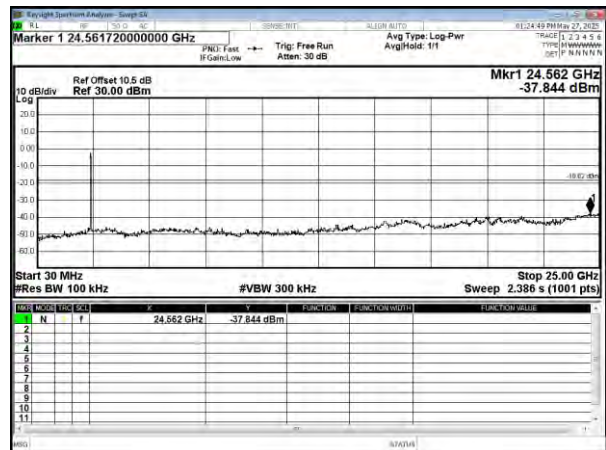
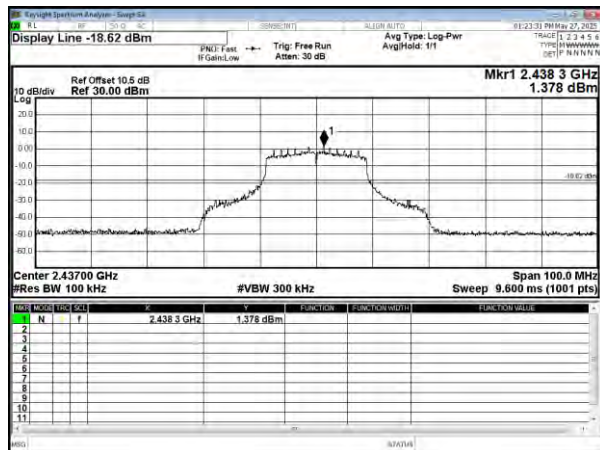
Modulation Standard: 802.11n HT20

Channel: 01



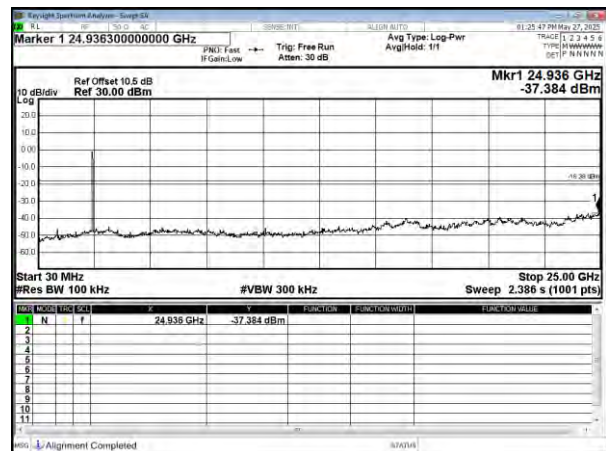
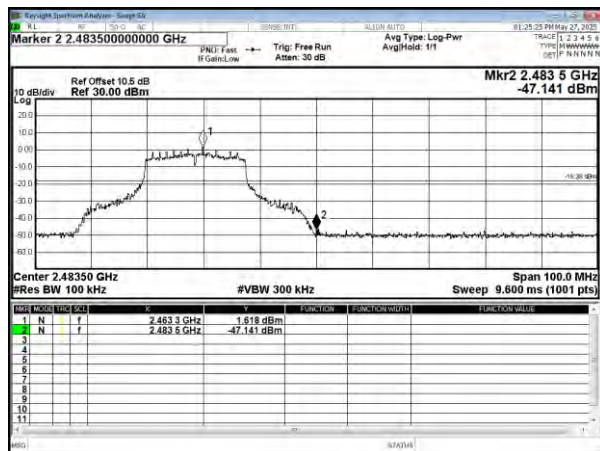
Modulation Standard: 802.11n HT20

Channel: 06



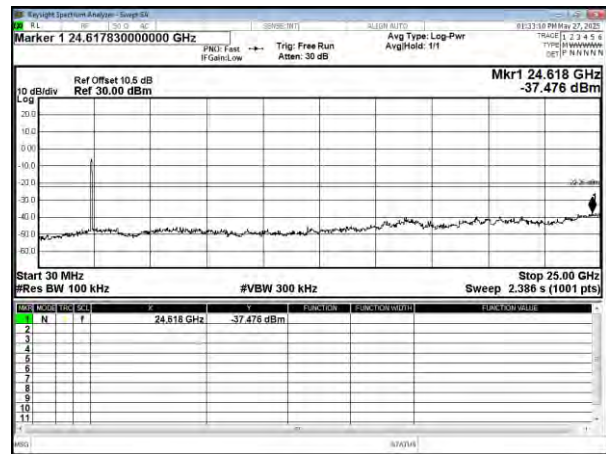
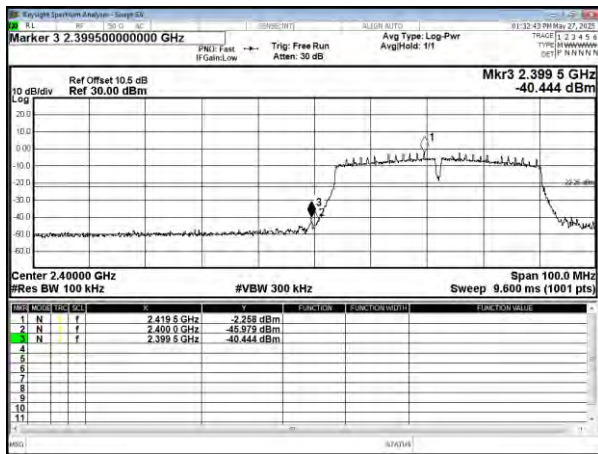
Modulation Standard: 802.11n HT20

Channel: 11

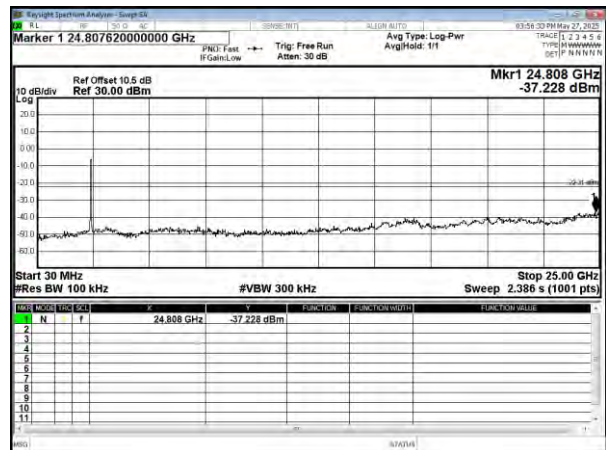
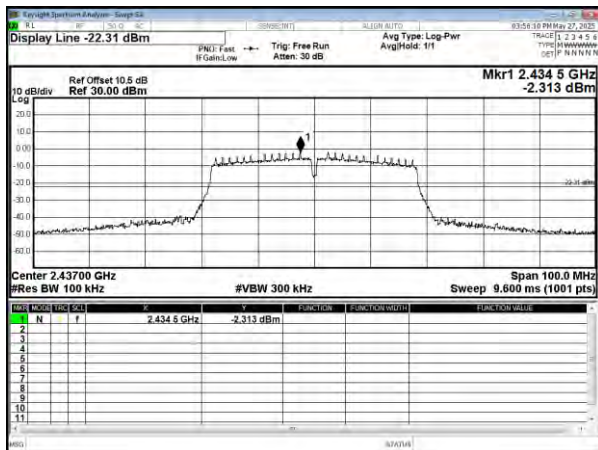




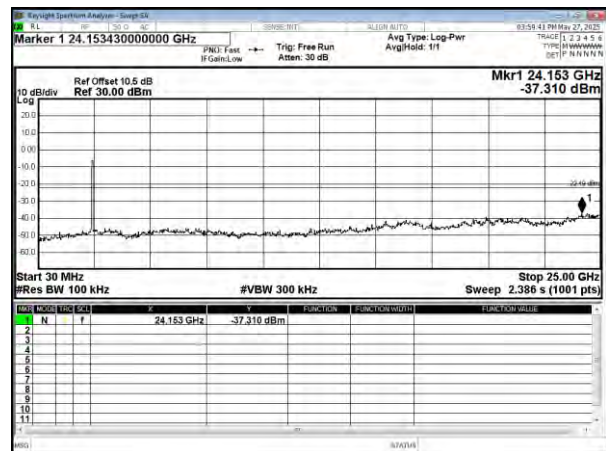
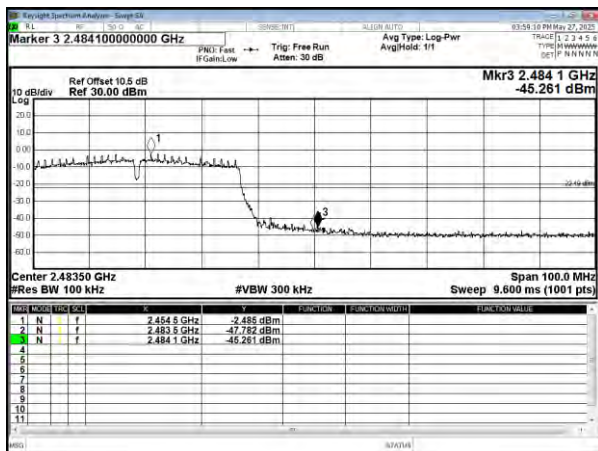
Modulation Standard: 802.11n HT40
Channel: 03



Modulation Standard: 802.11n HT40
Channel: 06

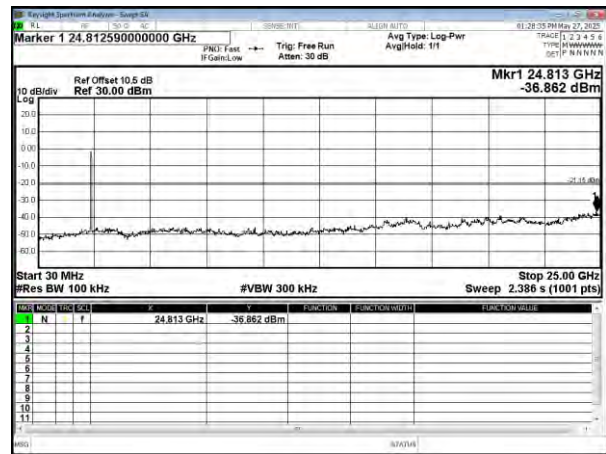
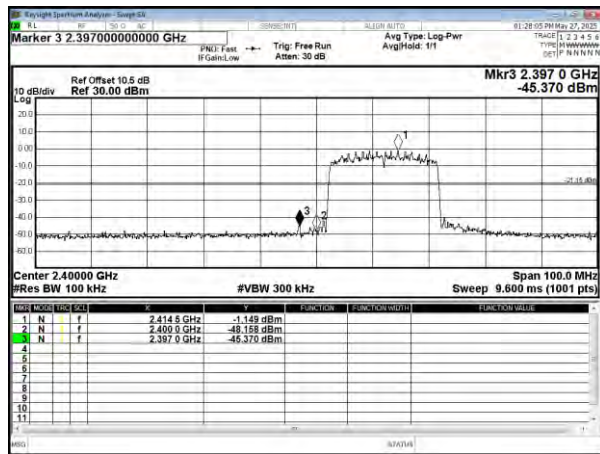


Modulation Standard: 802.11n HT40
Channel: 09

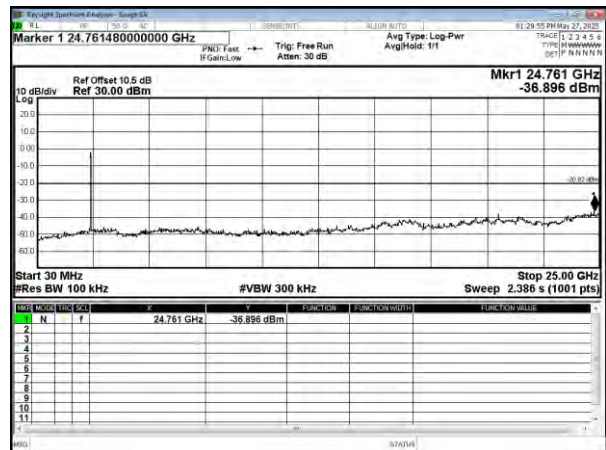
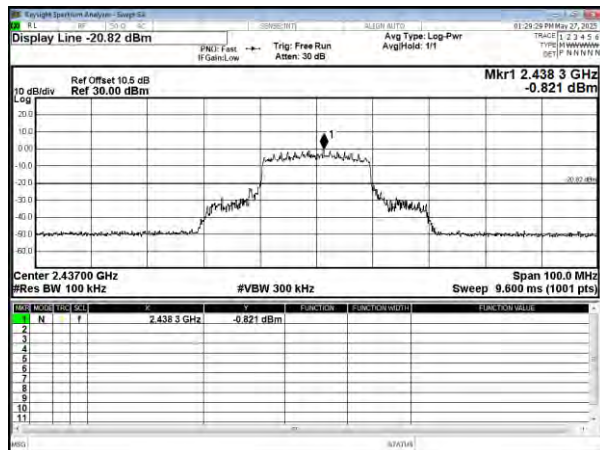




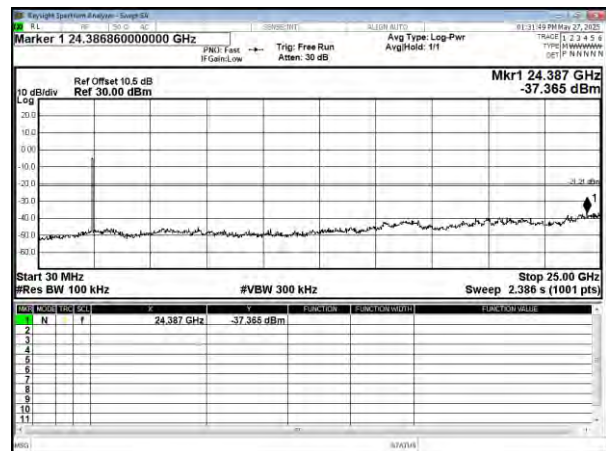
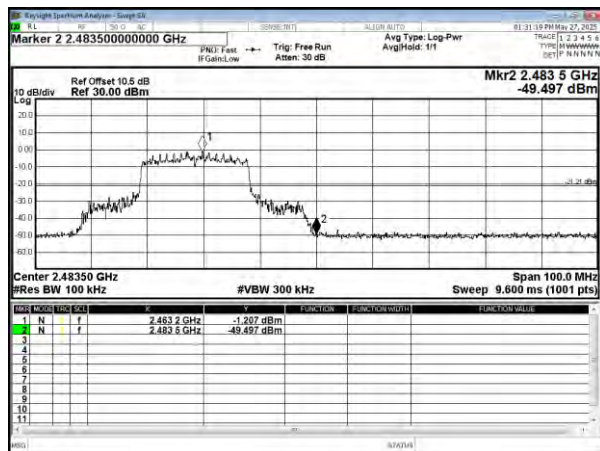
Modulation Standard: 802.11ax HE20
Channel: 01



Modulation Standard: 802.11ax HE20
Channel: 06

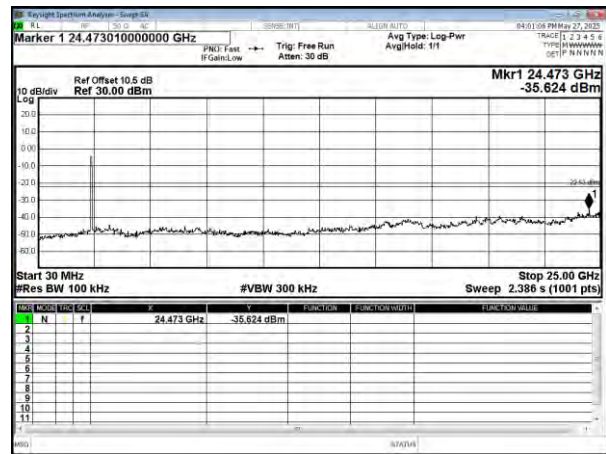
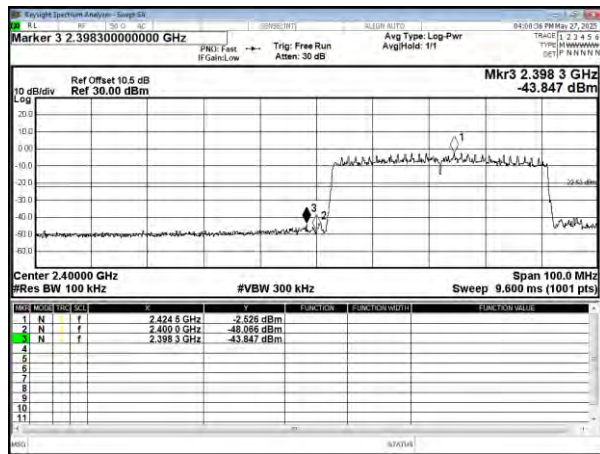


Modulation Standard: 802.11ax HE20
Channel: 11

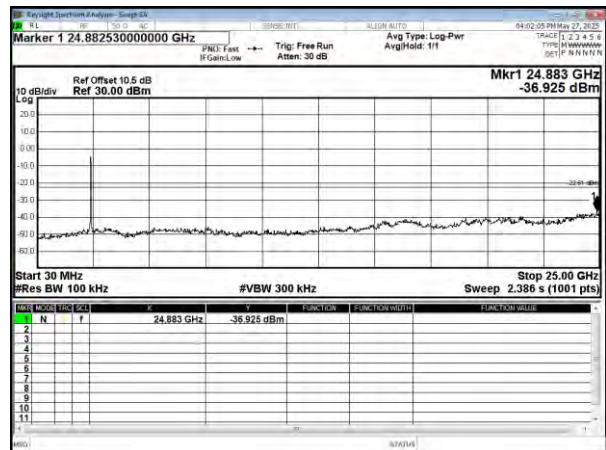
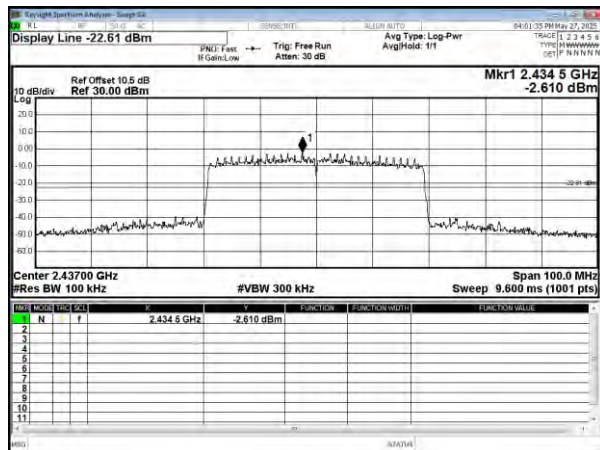




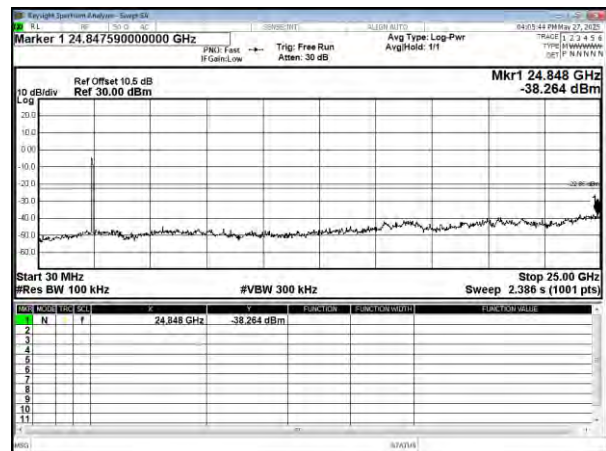
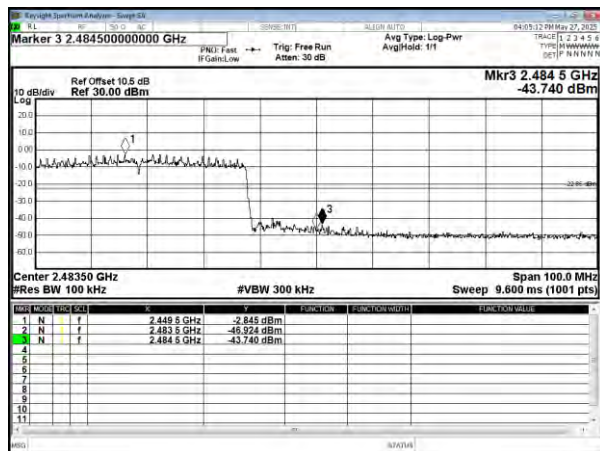
Modulation Standard: 802.11ax HE40
Channel: 03



Modulation Standard: 802.11ax HE40
Channel: 06



Modulation Standard: 802.11ax HE40
Channel: 09

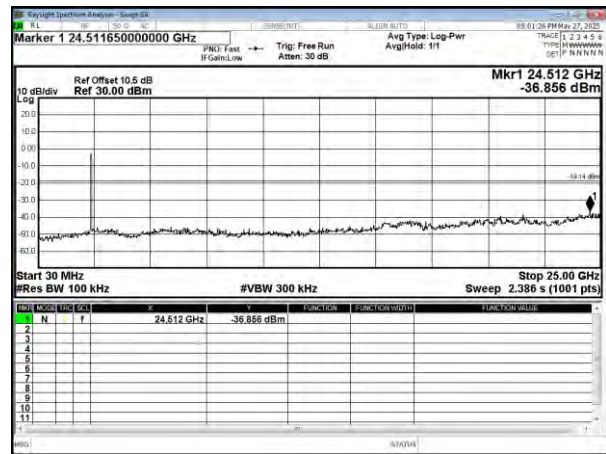
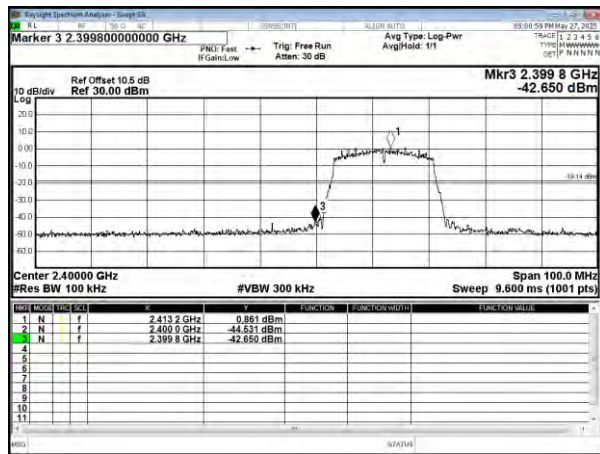




MIMO-Antenna B

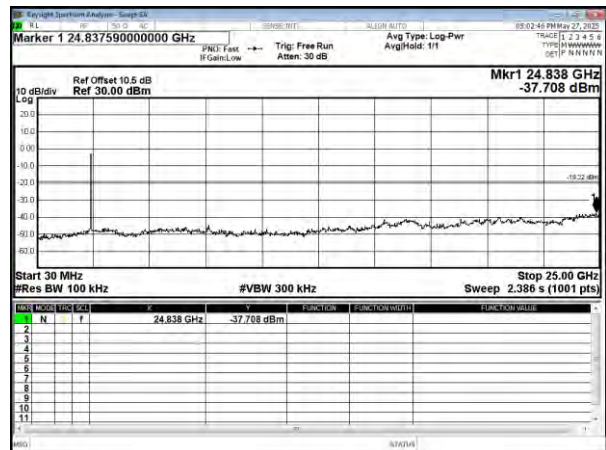
Modulation Standard: 802.11n HT20

Channel: 01



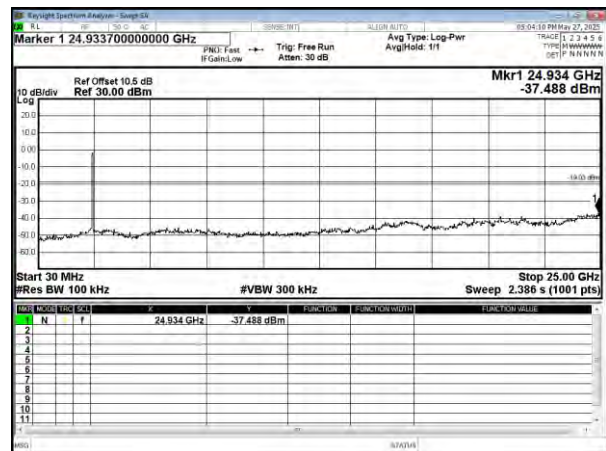
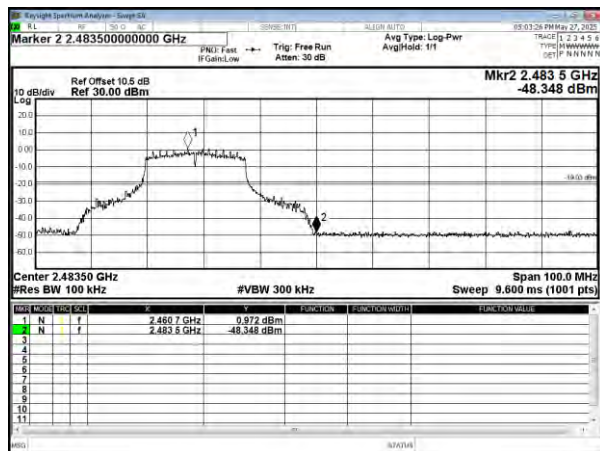
Modulation Standard: 802.11n HT20

Channel: 06



Modulation Standard: 802.11n HT20

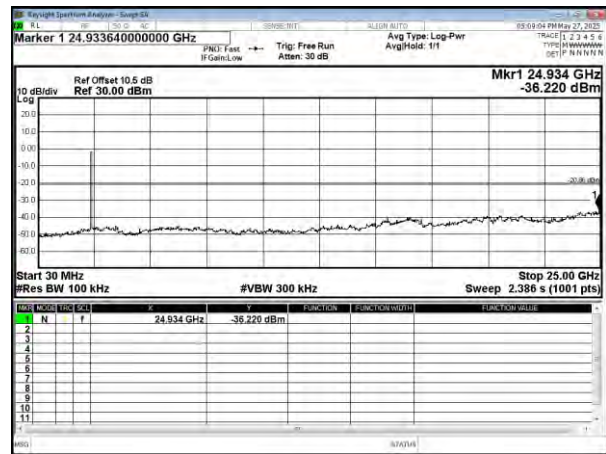
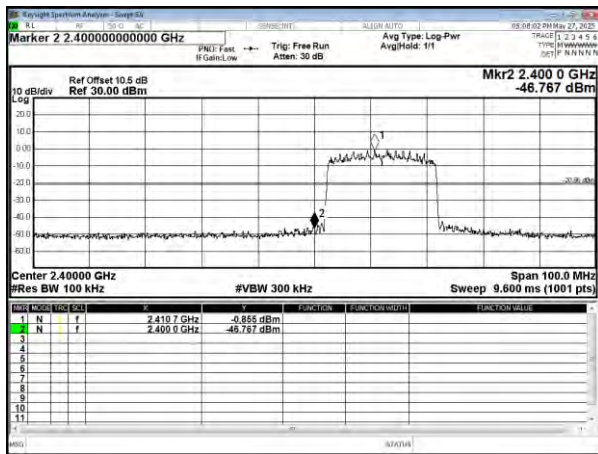
Channel: 11



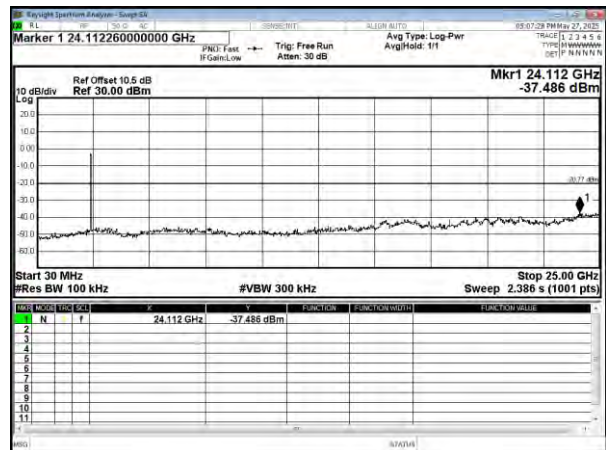
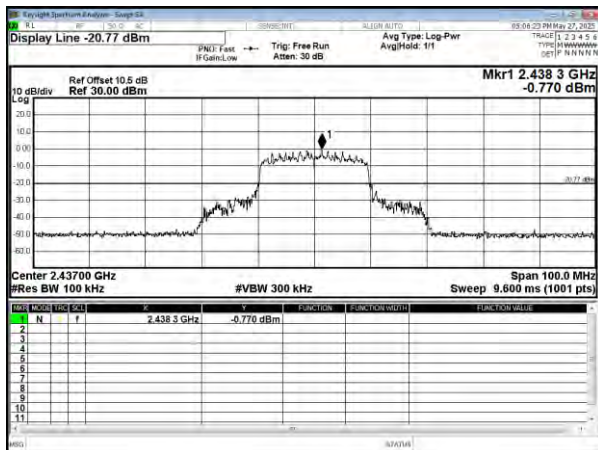




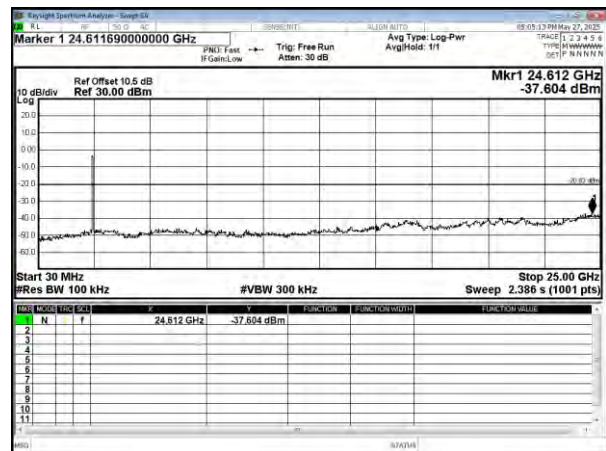
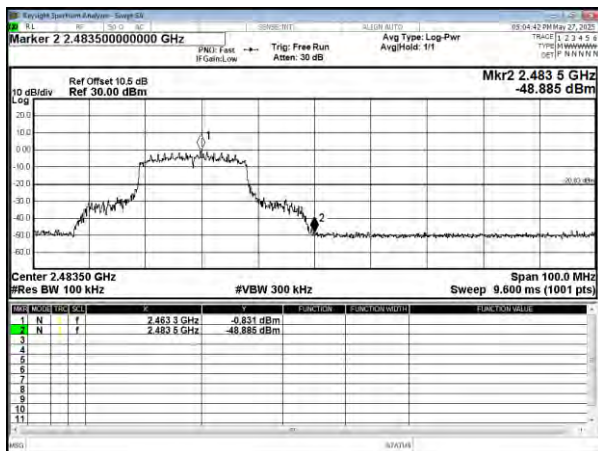
Modulation Standard: 802.11ax HE20
Channel: 01



Modulation Standard: 802.11ax HE20
Channel: 06



Modulation Standard: 802.11ax HE20
Channel: 11





RF Keyight Spectrum Analyzer - Sweep 24

W XL NF 50.0 AC

Marker 3 2.399500000000 GHz

PN1 Fast -- Trig: Free Run
IF Gain Low Atten: 30 dB

Align Auto

Avg Type: Log-Pwr
Avg Hold: 11

02:16:46 PM Mar 27, 2025

Trace 1 2 3 4 5
Type: Raw Wave
Set: N N N N N

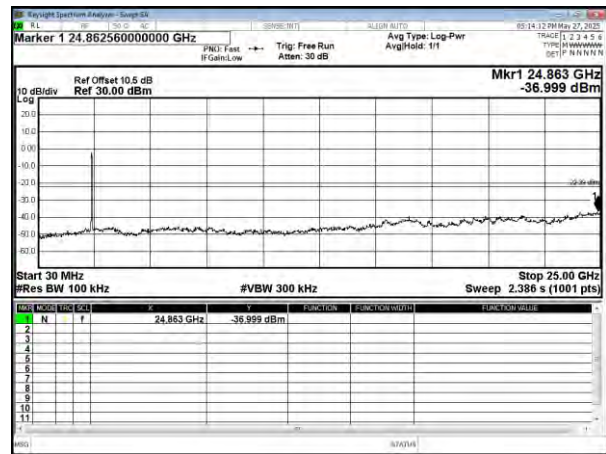
10 dBmV

Ref Offset 10.5 dB
Ref 30.0 dBm

Mkr3 2.399 5 GHz
-44.015 dBm

Center 2.400000 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 9.600 ms (1001 pts)

Row	Marker	Label	F	F _{offset}	F _{center}	Amplitude	Frequency (MHz)	Frequency (GHz)
1	N		f		2.419 5 GHz	-2.394 dBm		
2	N		f		2.400 0 GHz	-47.275 dBm		
3	N		f		2.399 5 GHz	-44.015 dBm		
4								
5								
6								
7								
8								
9								
10								
11								



KeyHelp Spectrum Analyzer Sweep On

Mkrl 2.439 5 GHz
-2.592 dBm

Display Line -22.59 dBm

PNT Test Trig: Free Run
If GainLow Atten: 30 dB

Avg Type: Log-Pwr
AveHold: 1/1

SE-21 18 PM May 27, 2023

Trace [1] 2.3 5 Hz
Type [SSBWAVEFORM]
Set [INHHTF]

Ref Offset 10.5 dB
Ref 30.00 dBm

10 dB/div

Log

Center 2.43700 GHz
#Res BW 100 kHz
Span 100.0 MHz
Sweep 9.600 ms (1001 pts)

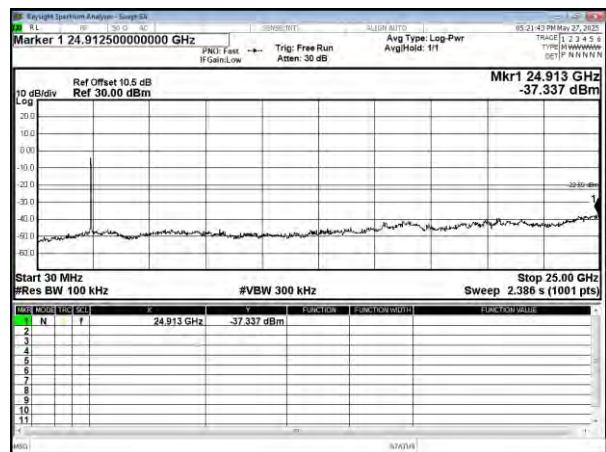
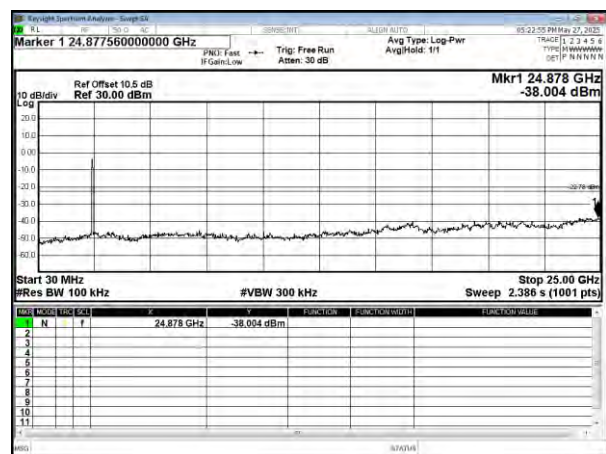
#VBW 300 KHz

Table:

	Marker Edge Color	F	Amplitude	Function Width	Function Value
1	N	I	2.439 5 GHz	-2.592 dBm	
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					

MMSI

STATUS

[illegible]



8. On Time, Duty Cycle and Measurement methods

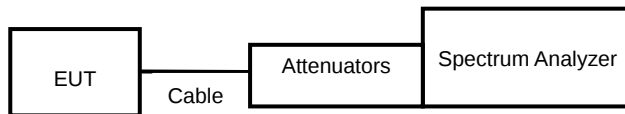
8.1 Test Limit

None; for reporting purposes only.

8.2 Test Procedure

Zero-Span Spectrum Analyzer Method.

8.3 Test Setup Layout



8.4 Test Result and Data

1TX

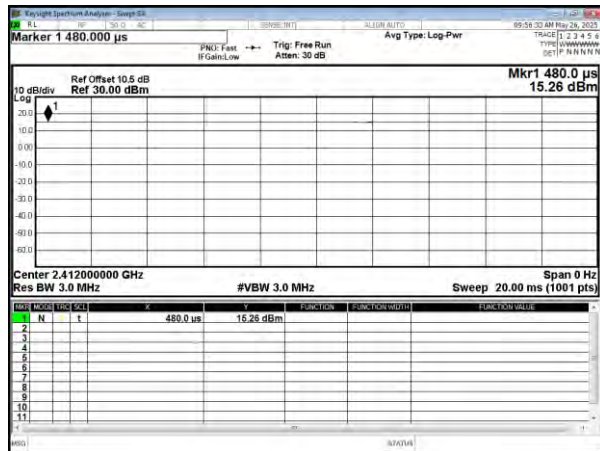
Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11b	100.000	100.000	100.00%
11g	100.000	100.000	100.00%

2TX

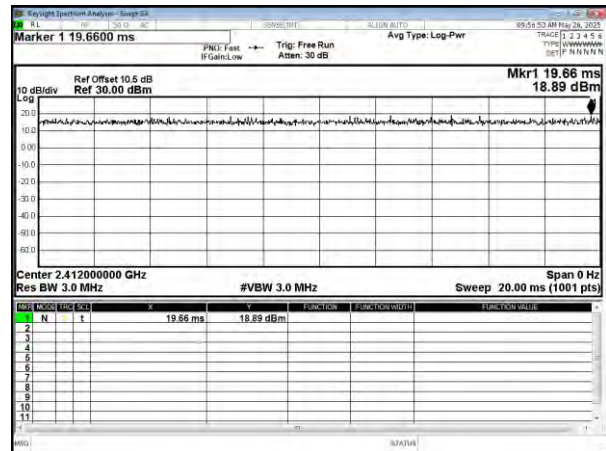
Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11n HT20	100.000	100.000	100.00%
11n HT40	100.000	100.000	100.00%
11ax HE20	100.000	100.000	100.00%
11ax HE40	100.000	100.000	100.00%



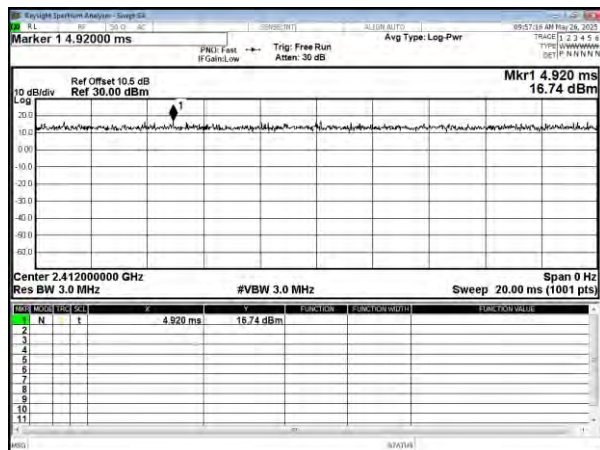
Modulation Type: 802.11b(1Mbps)



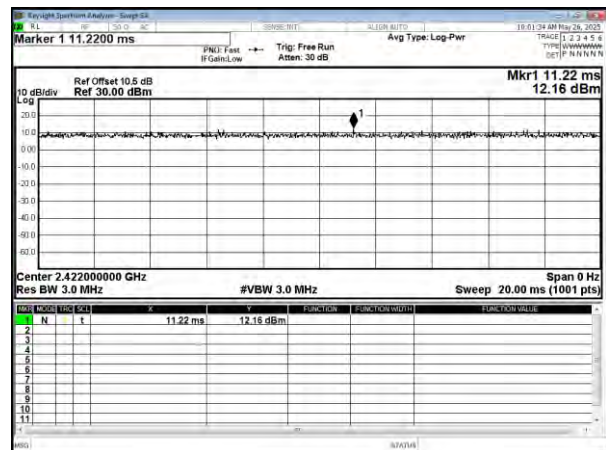
Modulation Type: 802.11g(6Mbps)



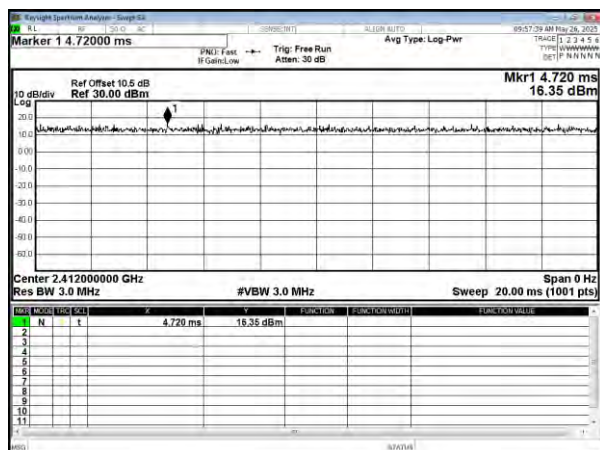
Modulation Type: 802.11n HT20(6.5Mbps)



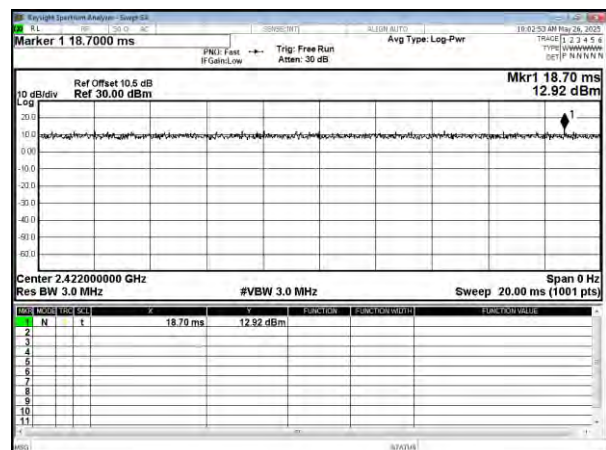
Modulation Type: 802.11n HT40(13.5Mbps)



Modulation Type: 802.11ax HE20 (7.3Mbps)



Modulation Type: 802.11 ax HE40(14.6Mbps)





9. 6dB Bandwidth Measurement Data

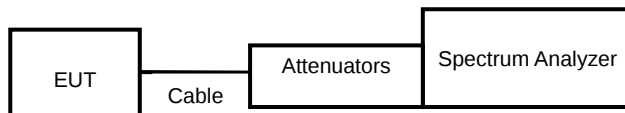
9.1 Test Limit

The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

9.2 Test Procedures

- The transmitter output was connected to the spectrum analyzer.
- Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- Set spectrum analyzer X dB to 6 dB.
- Set spectrum analyzer peak detector with maximum hold.

9.3 Test Setup Layout





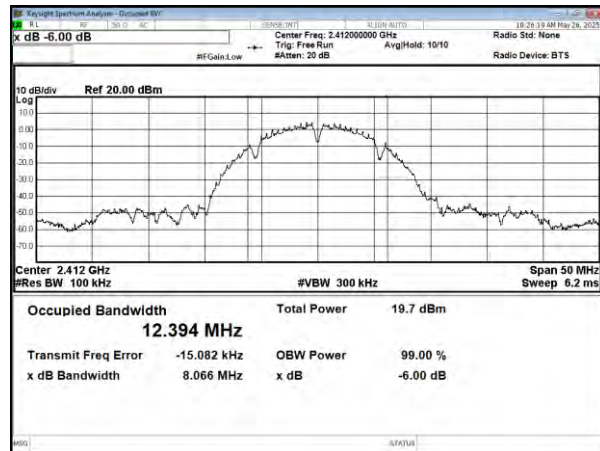
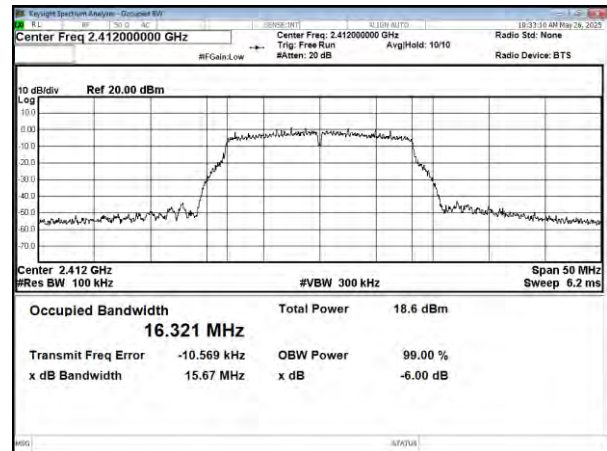
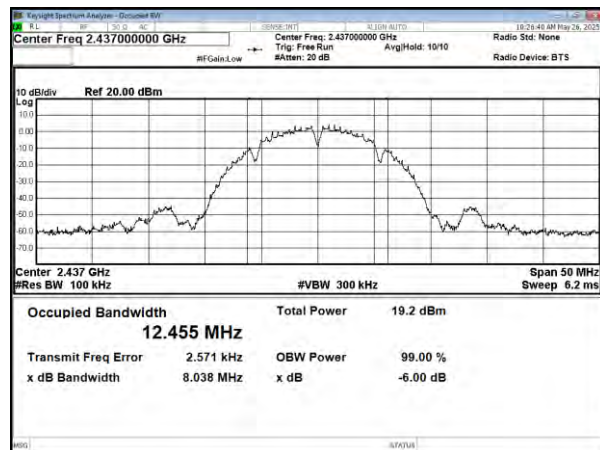
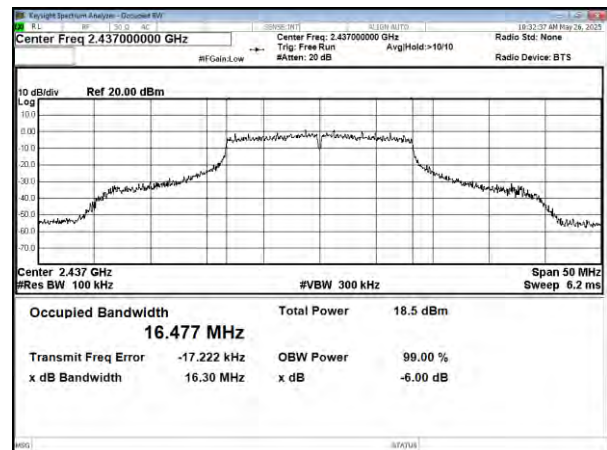
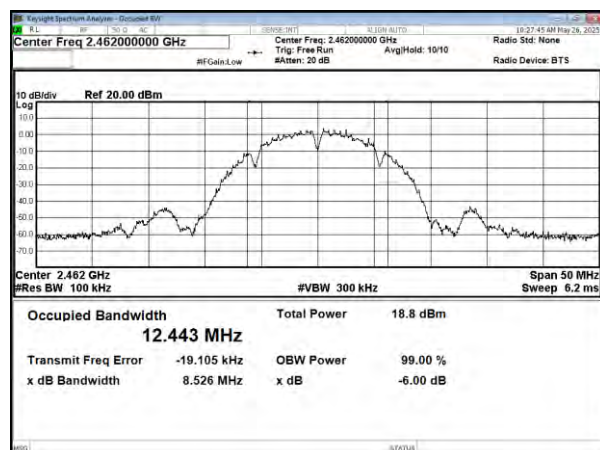
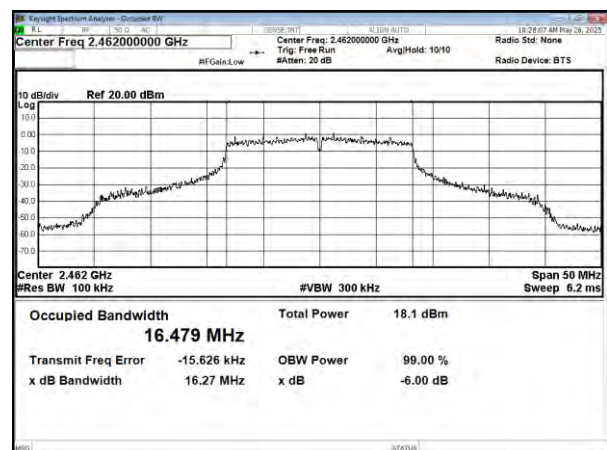
9.4 Test Result and Data

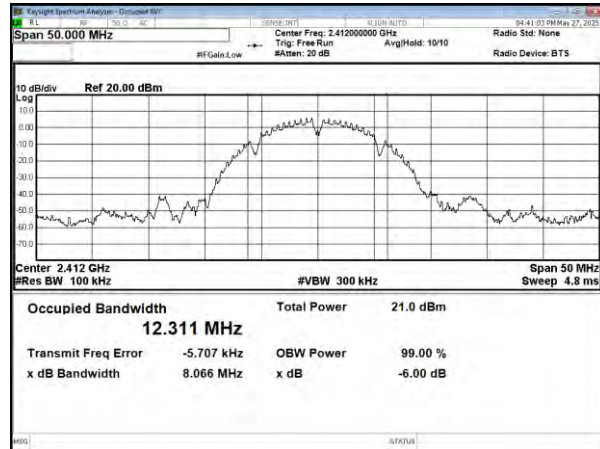
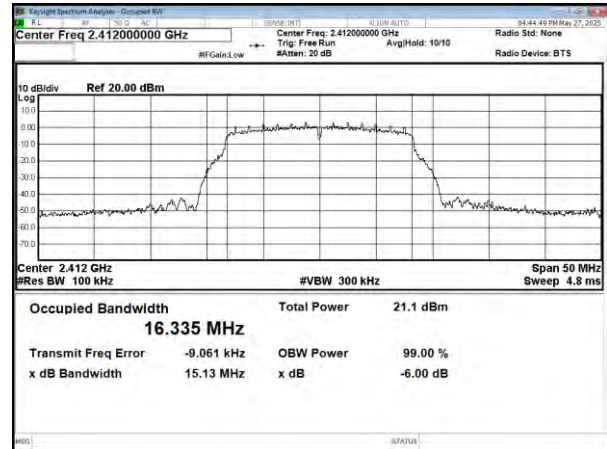
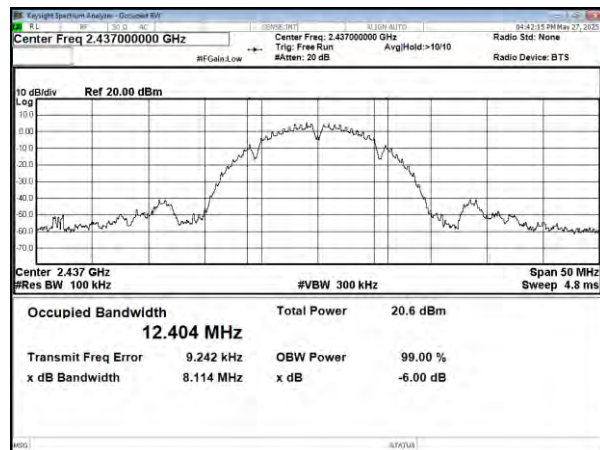
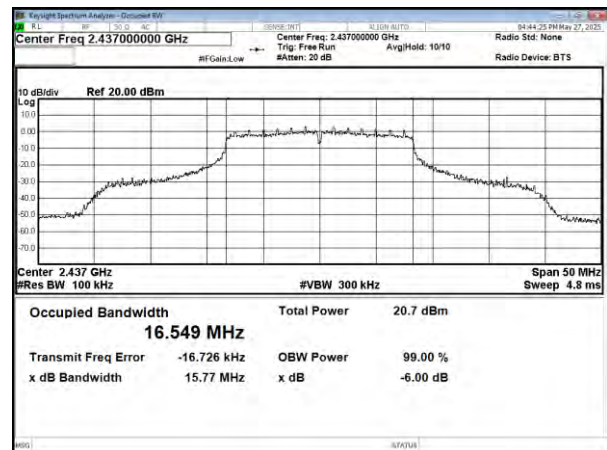
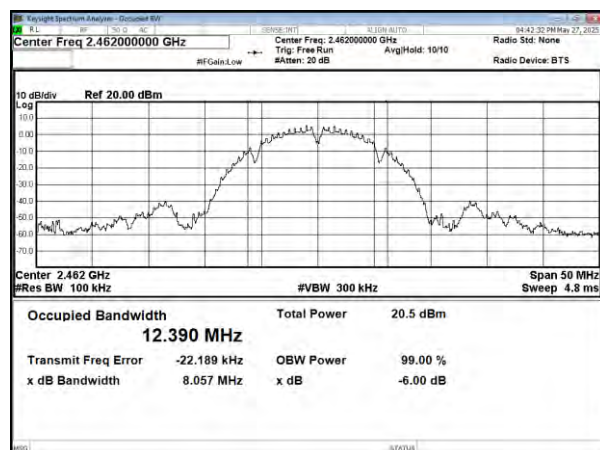
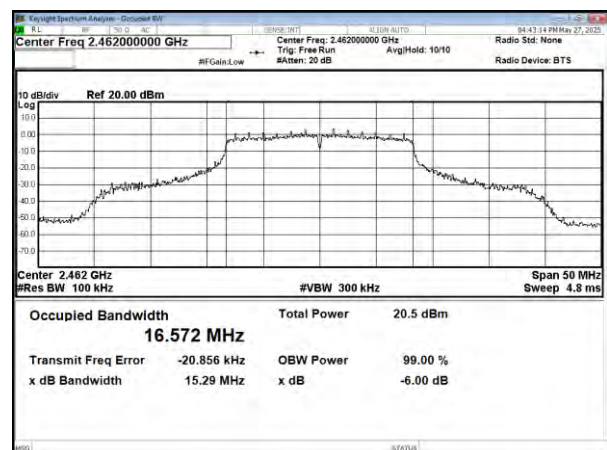
SISO

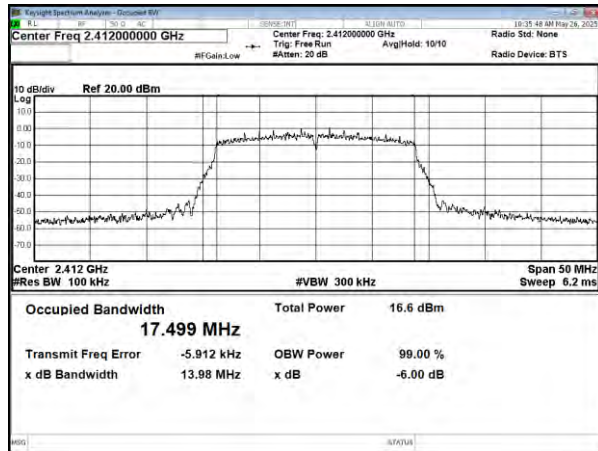
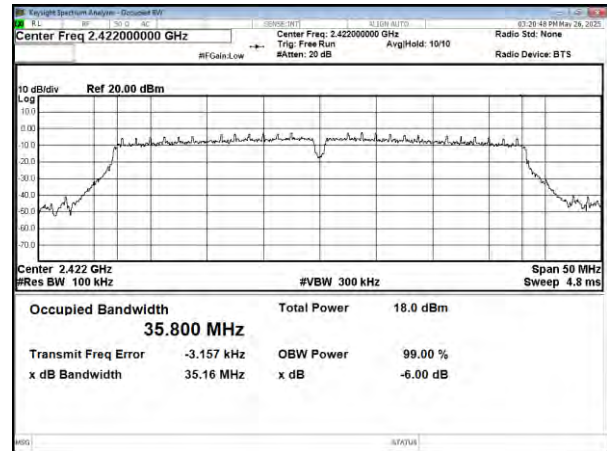
Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)
			ANT A	ANT B	
IEEE 802.11b	01	2412	8.07	8.07	0.5
	06	2437	8.04	8.11	0.5
	11	2462	8.53	8.06	0.5
IEEE 802.11g	01	2412	15.67	15.13	0.5
	06	2437	16.30	15.77	0.5
	11	2462	16.27	15.29	0.5

MIMO

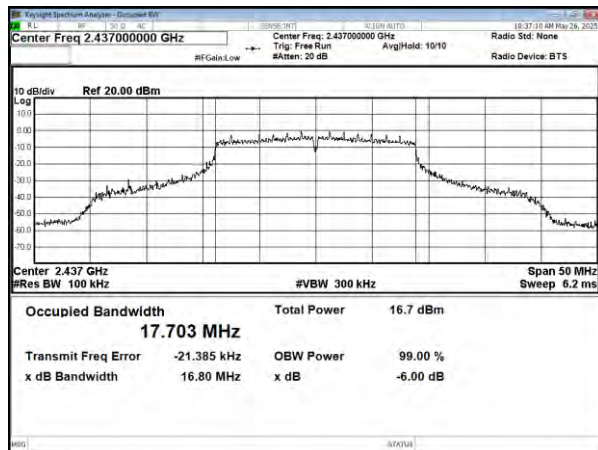
Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (MHz)
			ANT A	ANT B	
IEEE 802.11n HT20	01	2412	13.98	15.70	0.5
	06	2437	16.80	16.32	0.5
	11	2462	17.27	16.34	0.5
IEEE 802.11n HT40	03	2422	35.16	35.12	0.5
	06	2437	35.15	35.12	0.5
	09	2452	35.08	35.14	0.5
IEEE 802.11ax HE20	01	2412	17.13	17.60	0.5
	06	2437	17.92	17.84	0.5
	11	2462	18.27	18.77	0.5
IEEE 802.11ax HE40	03	2422	37.37	35.64	0.5
	06	2437	36.34	37.11	0.5
	09	2452	36.44	37.21	0.5

**SISO-Antenna A**Modulation Type: 802.11b
CH01Modulation Type: 802.11g
CH01**CH06****CH06****CH11****CH11**

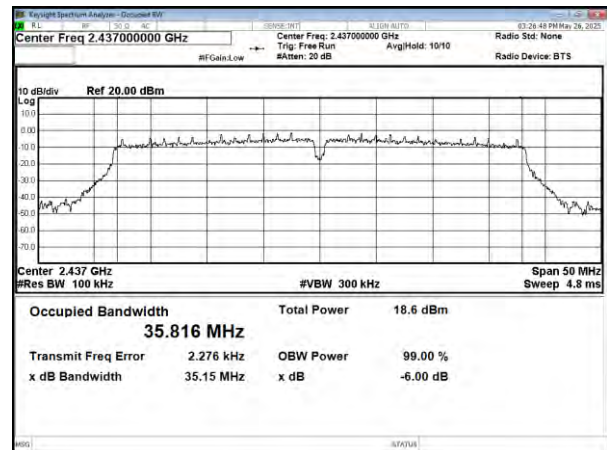
**SISO-Antenna B**Modulation Type: 802.11b
CH01Modulation Type: 802.11g
CH01**CH06****CH06****CH11****CH11**

**MIMO-Antenna A**Modulation Type: IEEE 802.11n HT20
CH01Modulation Type: IEEE 802.11n HT40
CH03

CH06



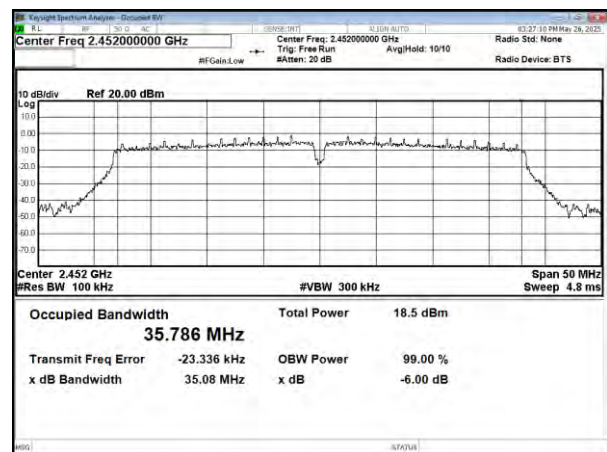
CH06



CH11

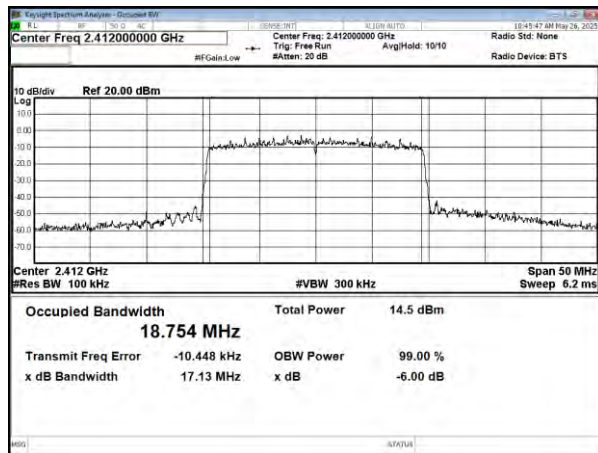


CH09

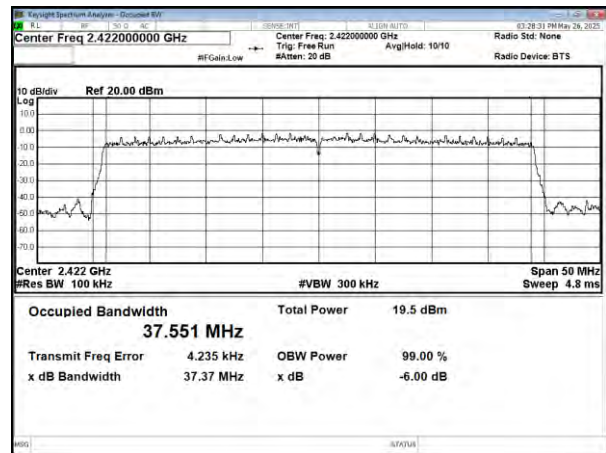




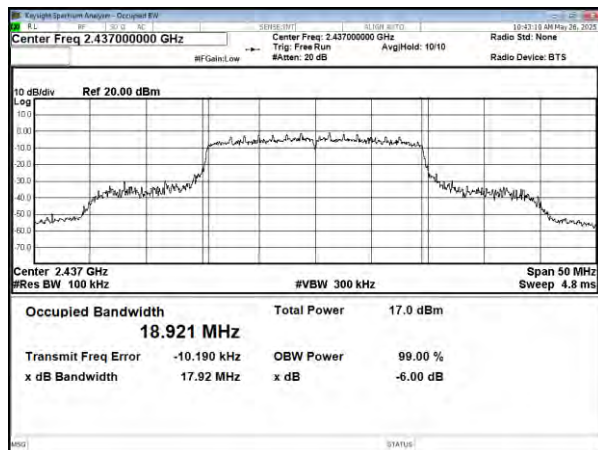
Modulation Type: IEEE 802.11ax HE20
CH01



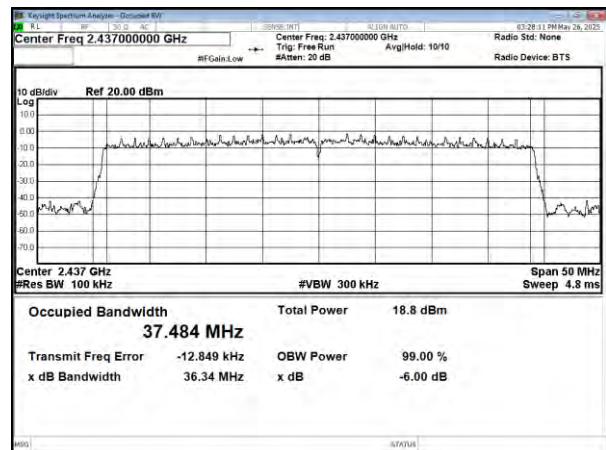
Modulation Type: IEEE 802.11ax HE40
CH03



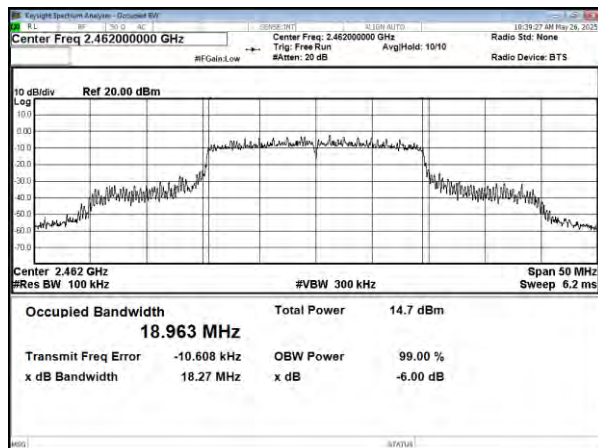
CH06



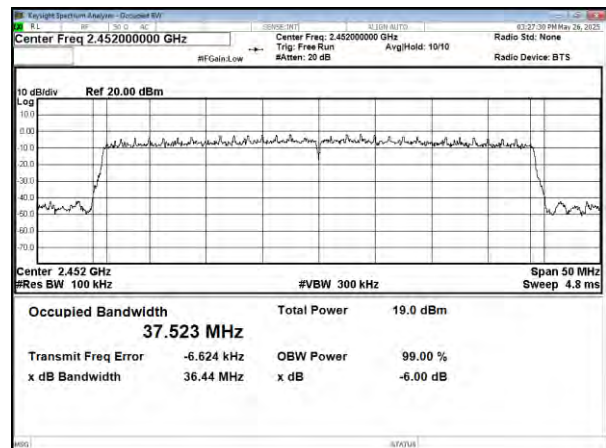
CH06

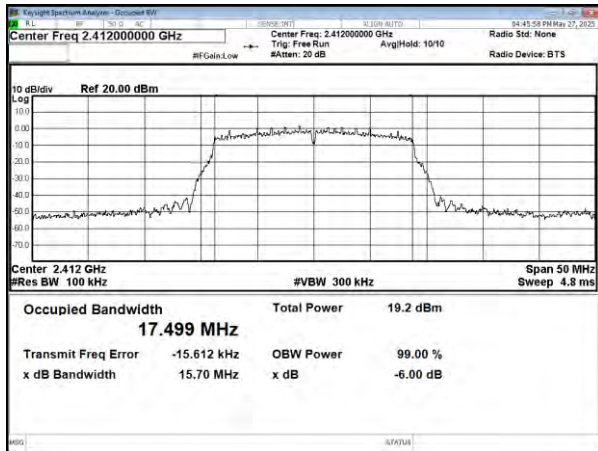
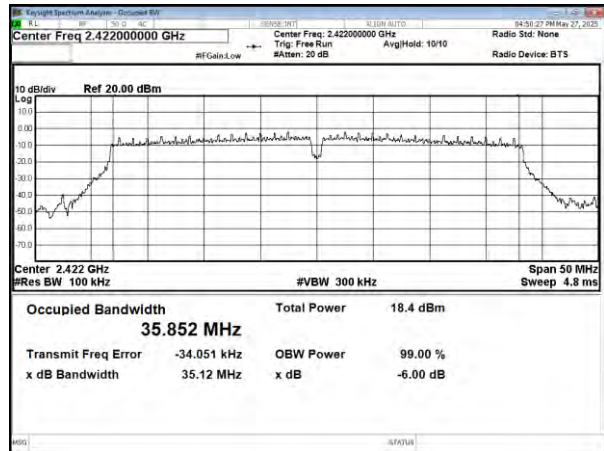


CH11

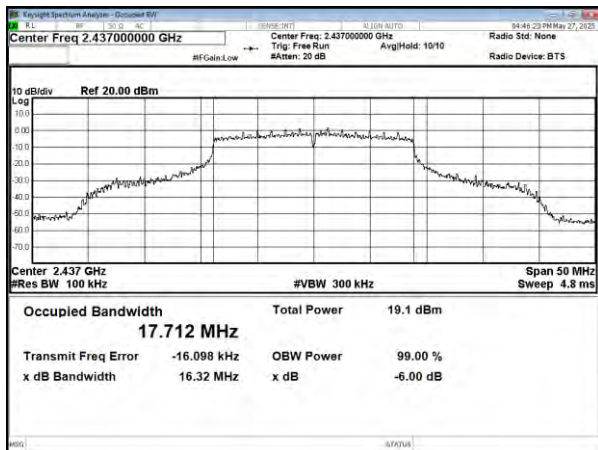


CH09

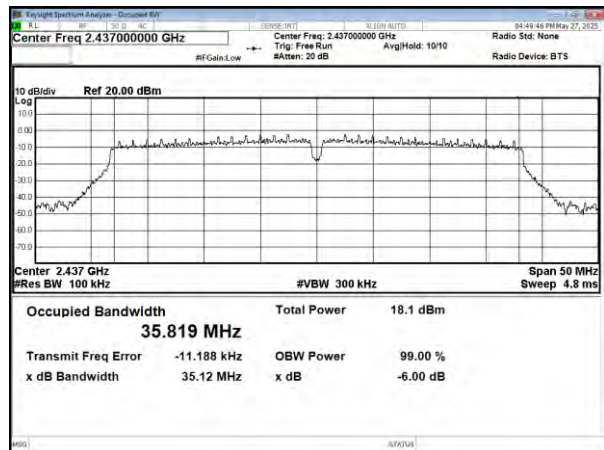


**MIMO-Antenna B**Modulation Type: IEEE 802.11n HT20
CH01Modulation Type: IEEE 802.11n HT40
CH03

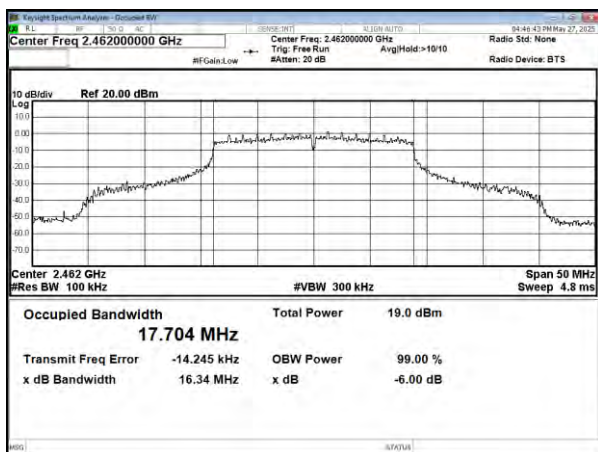
CH06



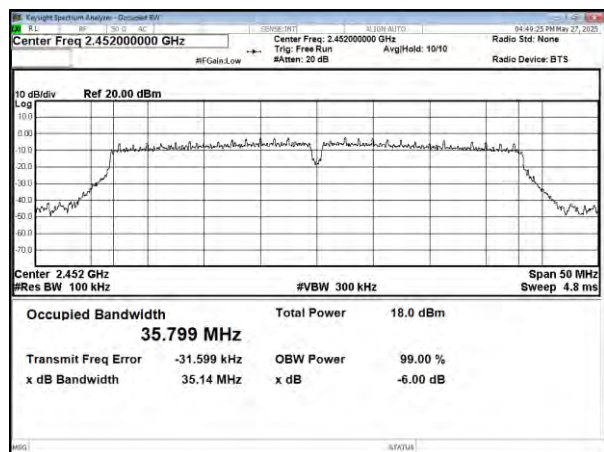
CH06



CH11

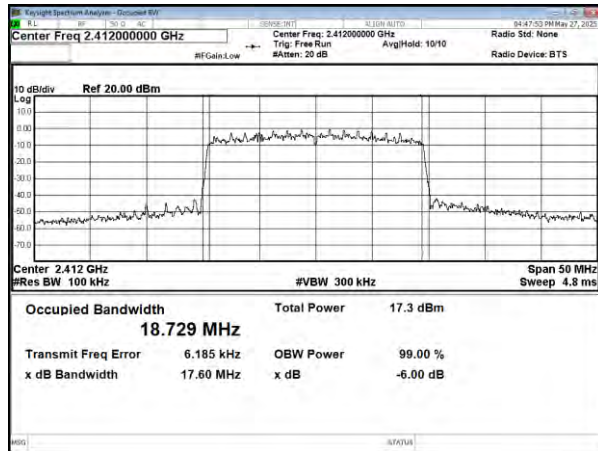


CH09

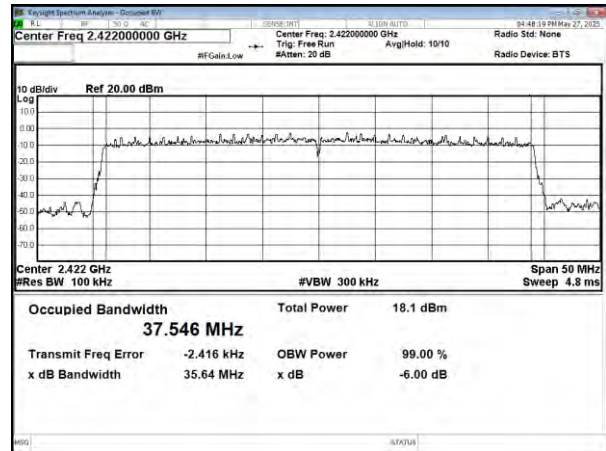




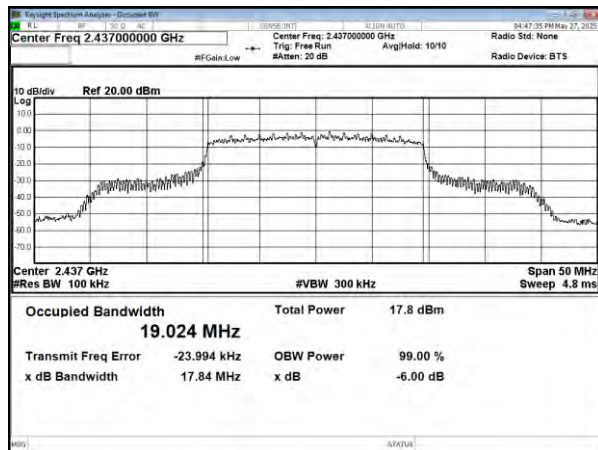
Modulation Type: IEEE 802.11ax HE20
CH01



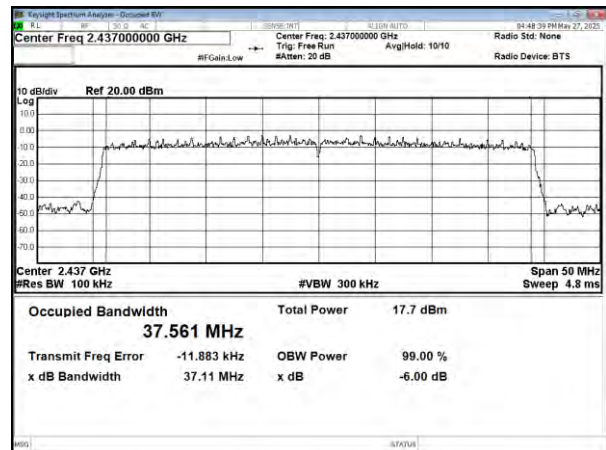
Modulation Type: IEEE 802.11ax HE40
CH03



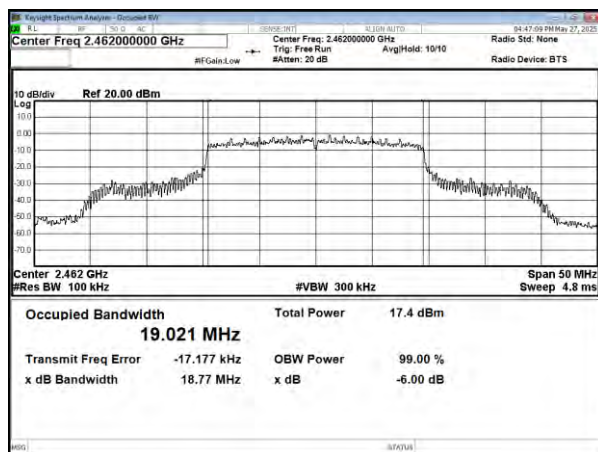
CH06



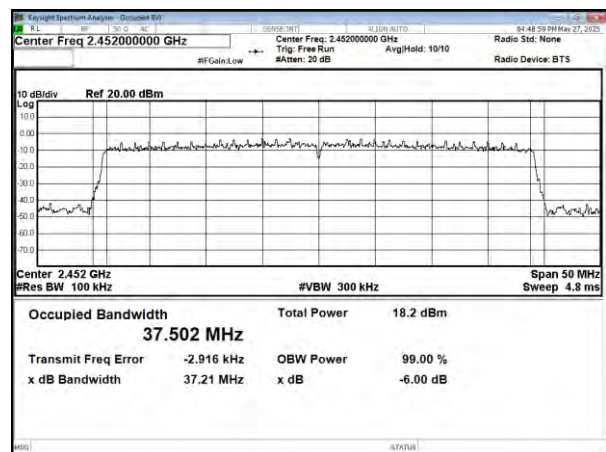
CH06



CH11



CH09





10. Maximum Peak Output Power

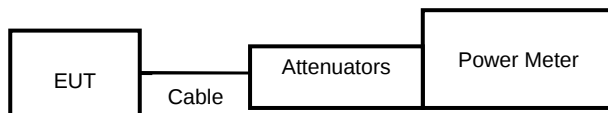
10.1 Test Limit

The Maximum Peak Output Power Measurement is 30dBm.

10.2 Test Procedures

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

10.3 Test Setup Layout



**10.4 Test Result and Data****SISO-ANT A**

Modulation Type	Channel	Frequency (MHz)	Conduct ed(peak) output power (dBm)	Total peak power (mW)	Power Limit (dBm)
			ANT A		
11b	1	2412	17.040	50.582	30.00
	6	2437	16.440	44.055	30.00
	11	2462	16.250	42.170	30.00
11g	1	2412	21.850	153.109	30.00
	6	2437	21.550	142.889	30.00
	11	2462	21.300	134.896	30.00

SISO-ANT B

Modulation Type	Channel	Frequency (MHz)	Conduct ed(peak) output power (dBm)	Total peak power (mW)	Power Limit (dBm)
			ANT B		
11b	1	2412	17.340	54.200	30.00
	6	2437	16.550	45.186	30.00
	11	2462	16.340	43.053	30.00
11g	1	2412	22.020	159.221	30.00
	6	2437	21.640	145.881	30.00
	11	2462	21.570	143.549	30.00

MIMO

Modulation Type	Channel	Frequency (MHz)	Conducted(peak) output power (dBm)		Total peak power (dBm)	Total peak power (mW)	Power Limit (dBm)
			ANT A	ANT B			
11n HT20	1	2412	19.870	19.98	22.936	196.592	30.00
	6	2437	19.450	20.40	22.961	197.753	30.00
	11	2462	19.350	20.110	22.757	188.665	30.00
11n HT40	3	2422	18.810	19.57	22.217	166.606	30.00
	6	2437	18.500	19.22	21.885	154.355	30.00
	9	2452	18.860	18.78	21.830	152.422	30.00
802.11ax HE20	1	2412	18.950	18.90	21.935	156.148	30.00
	6	2437	18.800	18.87	21.845	152.948	30.00
	11	2462	18.230	18.89	21.583	143.973	30.00
802.11ax HE40	3	2422	19.860	20.57	23.240	210.853	30.00
	6	2437	19.120	20.12	22.659	184.460	30.00
	9	2452	19.220	20.33	22.821	191.455	30.00



11. Power Spectral Density

11.1 Test Limit

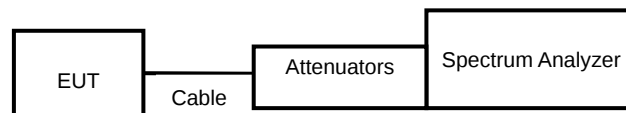
The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

11.2 Test Procedures

- The transmitter output was connected to spectrum analyzer.
- The spectrum analyzer's resolution bandwidth were set at 3kHz RBW and 10KHz VBW as that of the fundamental frequency. Set the sweep time=auto couple.
- The power spectral density was measured and recorded.

11.3 Test Setup Layout





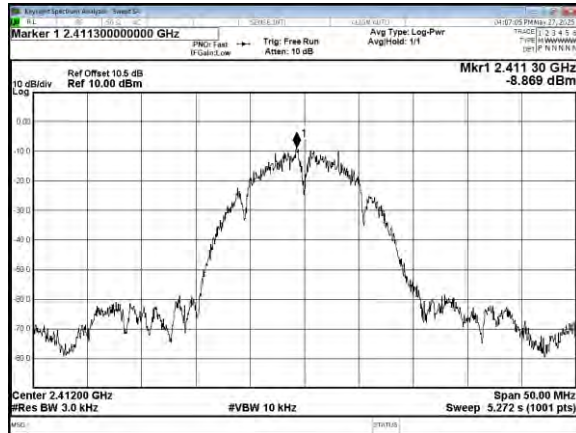
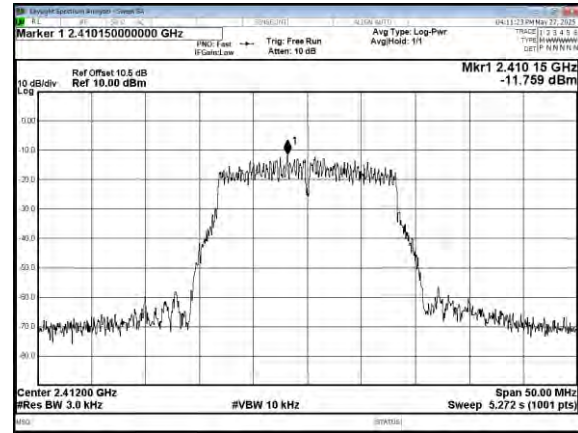
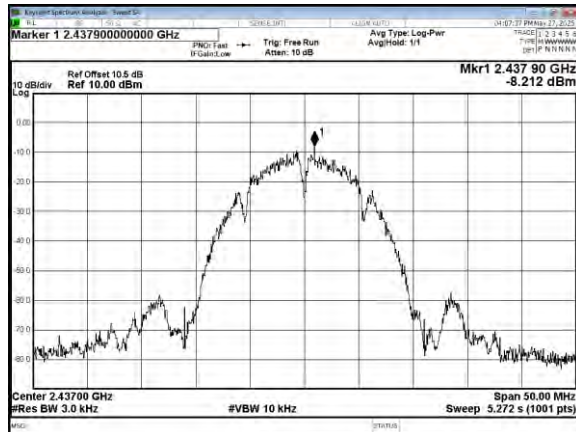
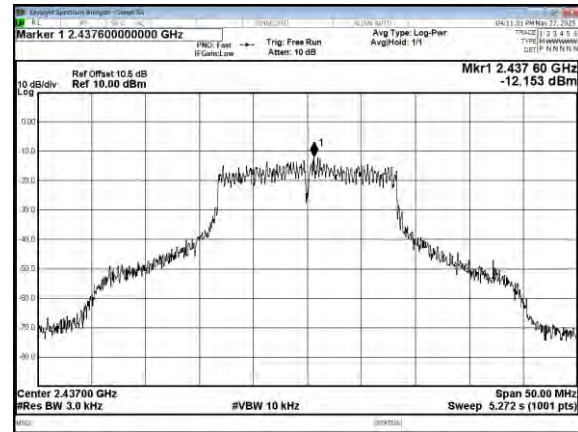
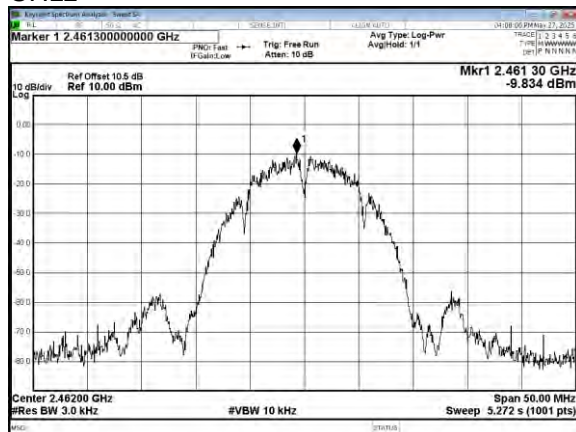
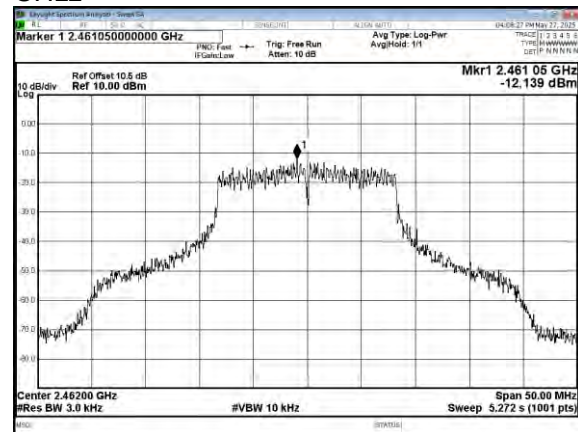
11.4 Test Result and Data

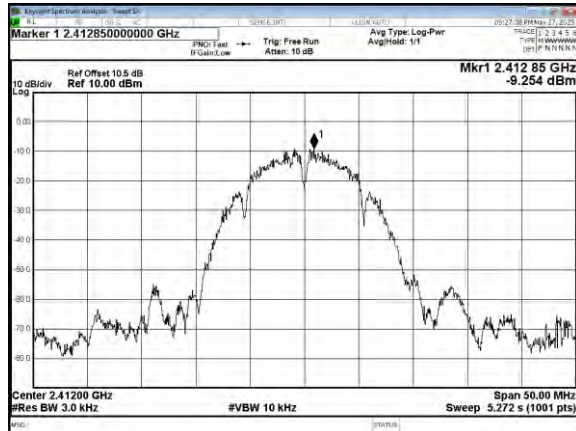
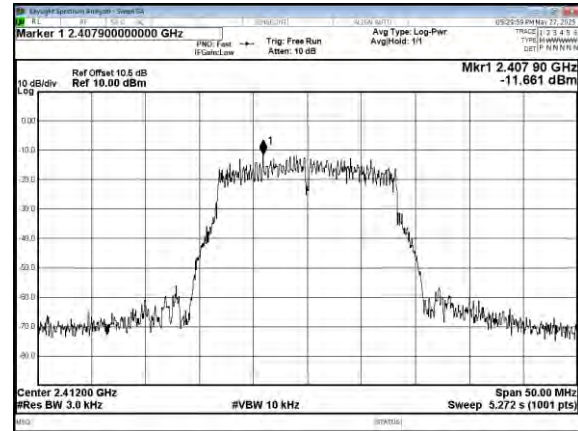
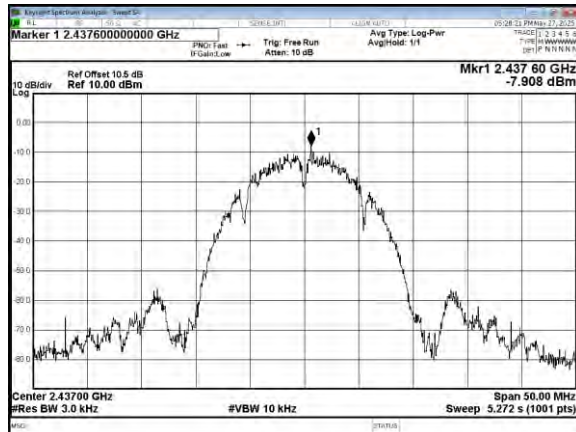
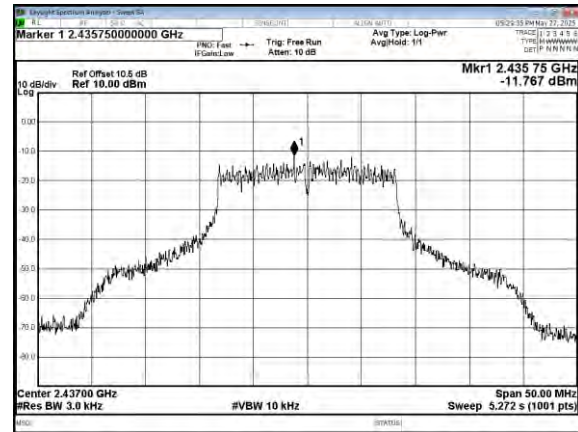
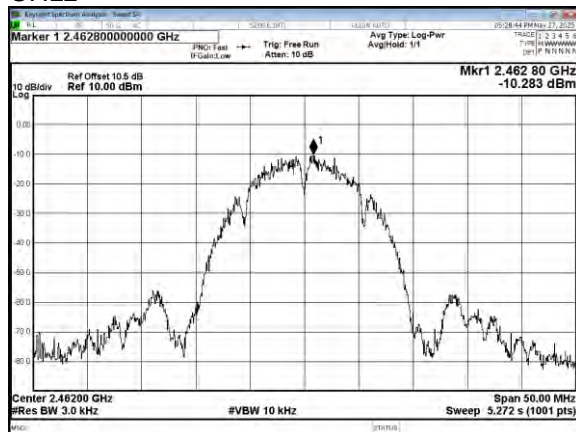
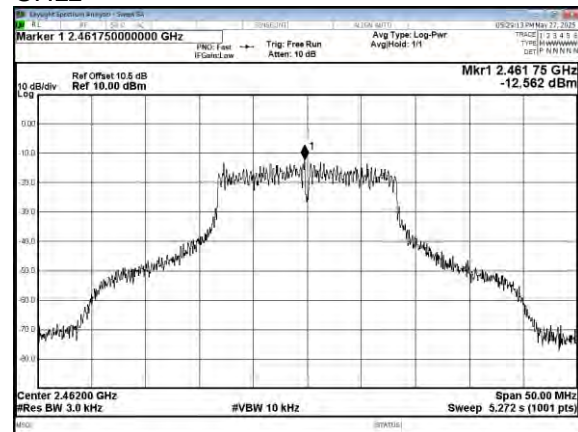
SISO

Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth(dBm)		Limit (dBm)
			ANT A	ANT B	
11b	1	2412	-8.869	-9.254	8.00
	6	2437	-8.212	-7.908	8.00
	11	2462	-9.834	-10.283	8.00
11g	1	2412	-11.759	-11.661	8.00
	6	2437	-12.153	-11.767	8.00
	11	2462	-12.139	-12.562	8.00

MIMO

Modulation Type	Channel	Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth(dBm)		Sum chain (dBm)	Limit (dBm)
			ANT A	ANT B		
11n HT20	1	2412	-12.767	-13.296	-10.013	6.30
	6	2437	-14.064	-13.667	-10.851	6.30
	11	2462	-13.961	-14.086	-11.013	6.30
11n HT40	3	2422	-18.070	-16.634	-14.283	6.30
	6	2437	-17.982	-17.574	-14.763	6.30
	9	2452	-17.386	-17.744	-14.551	6.30
802.11ax HE20	1	2412	-16.609	-17.167	-13.869	6.30
	6	2437	-16.841	-16.651	-13.735	6.30
	11	2462	-16.492	-18.244	-14.270	6.30
802.11ax HE40	3	2422	-18.484	-18.976	-15.713	6.30
	6	2437	-19.808	-18.987	-16.368	6.30
	9	2452	-19.348	-18.913	-16.115	6.30

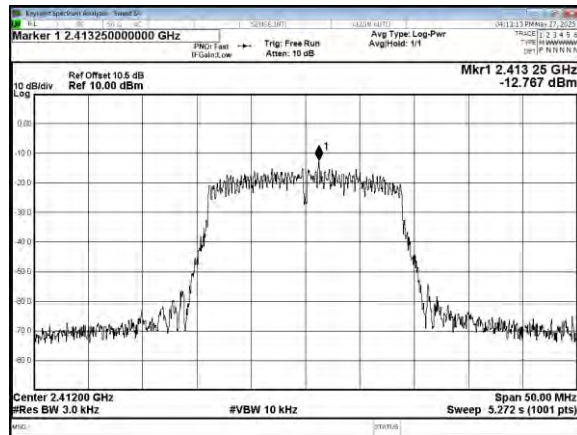
**SISO-ANT A**Modulation Type: 802.11b
CH01Modulation Type: 802.11g
CH01**CH06****CH06****CH11****CH11**

**SISO-ANT B**Modulation Type: 802.11b
CH01Modulation Type: 802.11g
CH01**CH06****CH06****CH11****CH11**

**MIMO-ANT A**

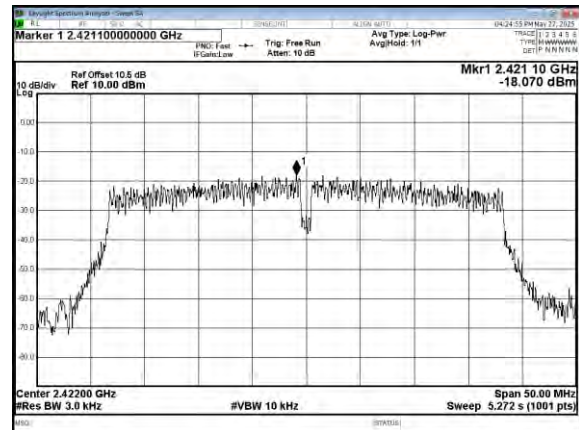
Modulation Type: 802.11n HT20

CH01

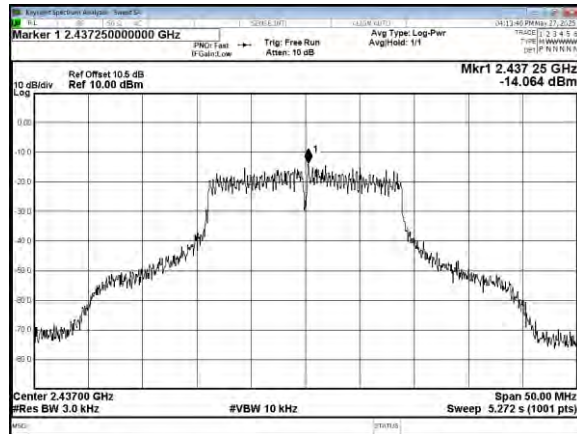


Modulation Type: 802.11n HT40

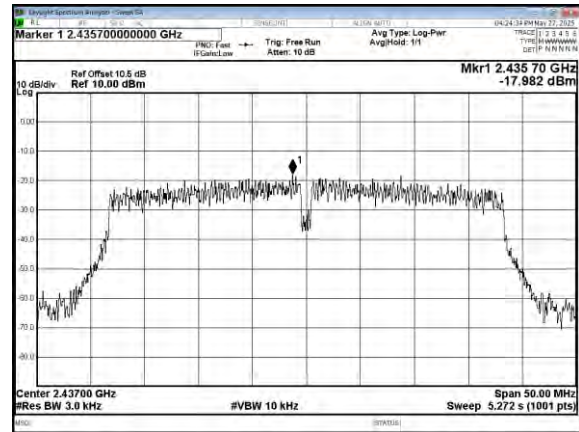
CH03



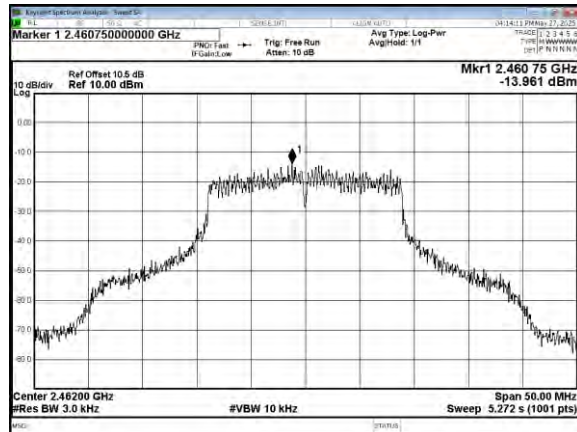
CH06



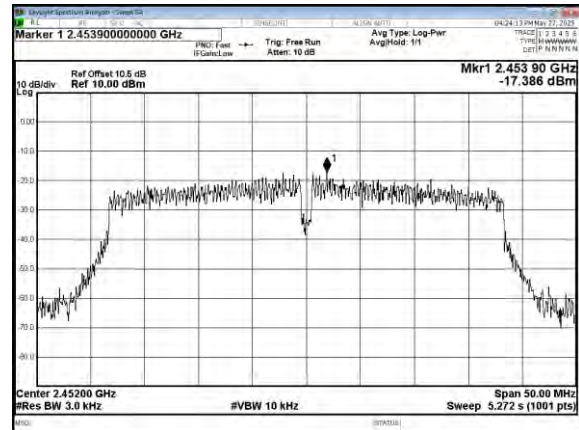
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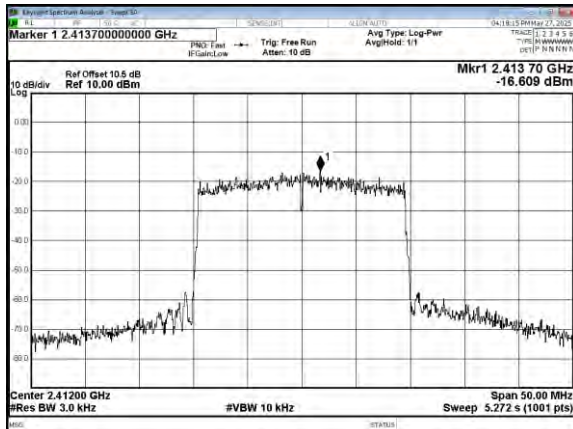
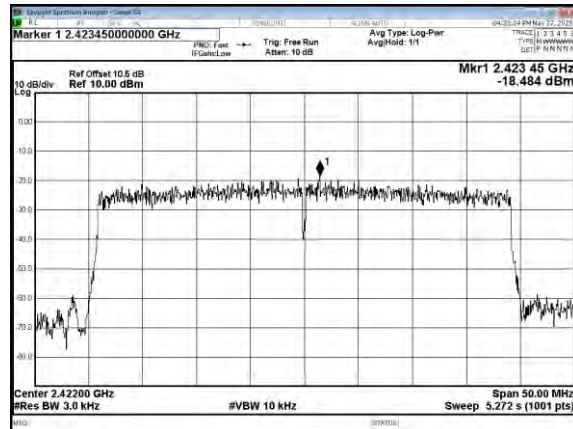


CH11

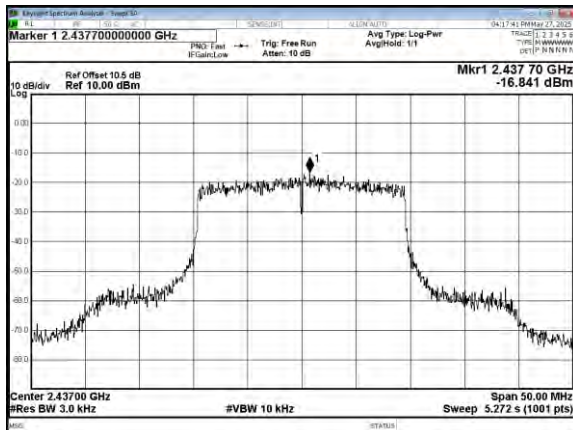


CH09

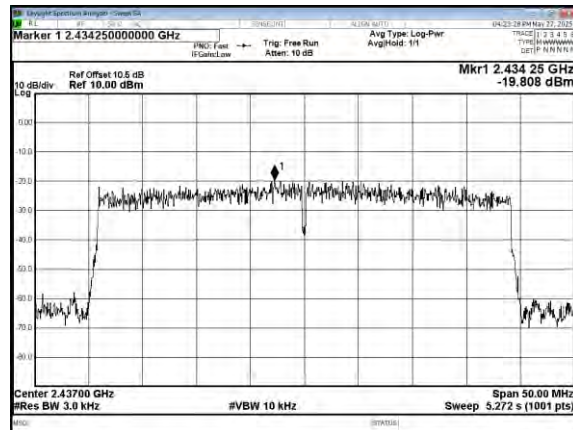


Modulation Type: 802.11ax HE20
CH01Modulation Type: 802.11ax HE40
CH03

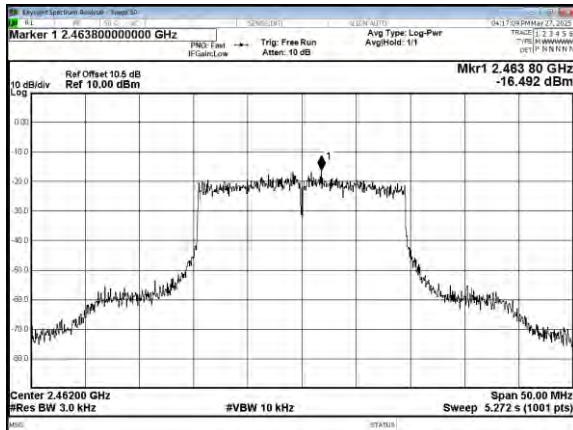
CH06



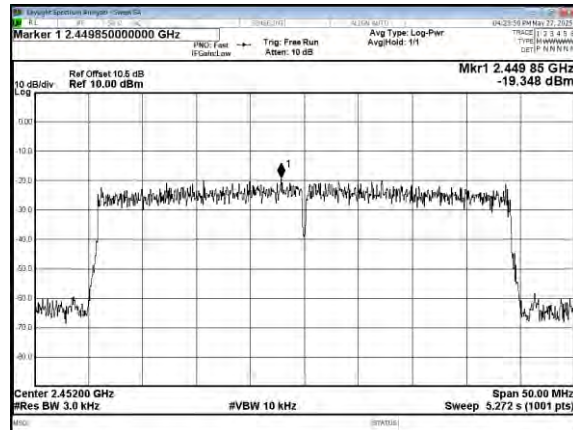
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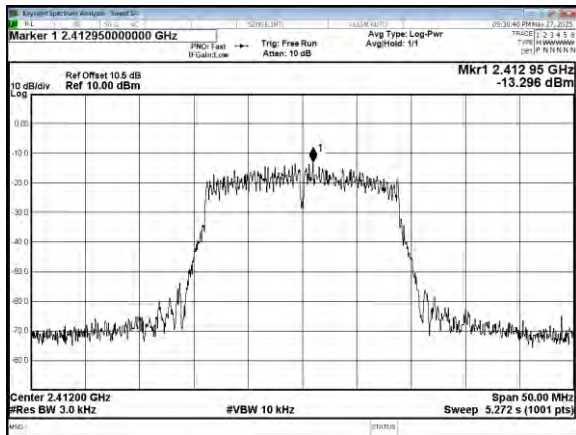
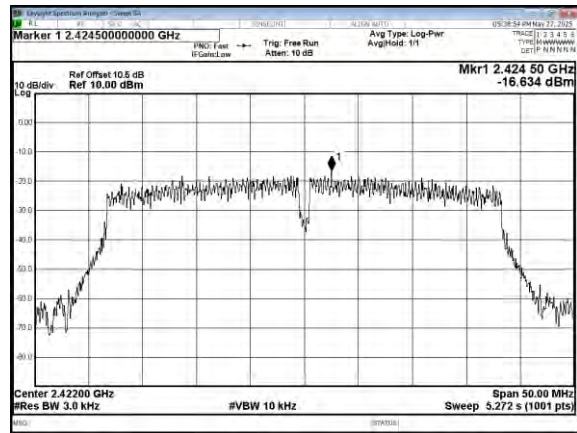
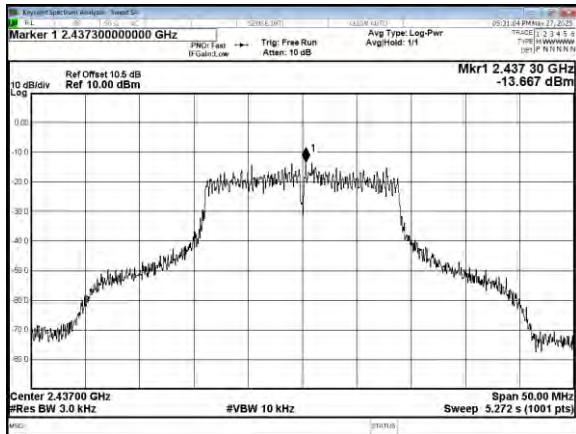
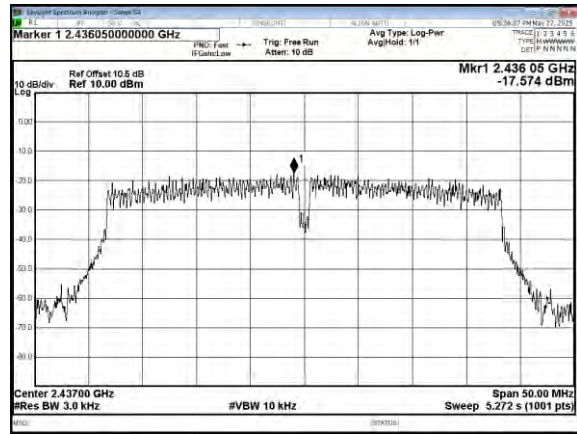
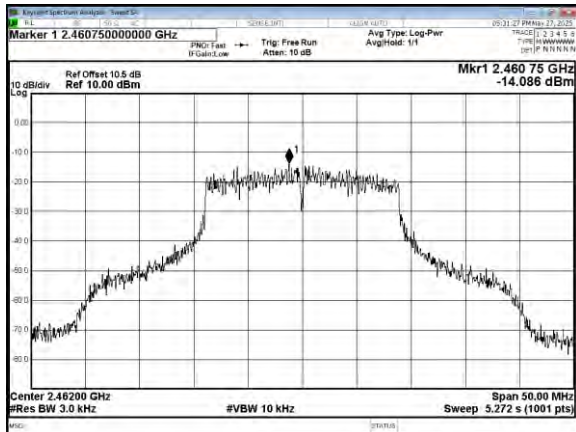
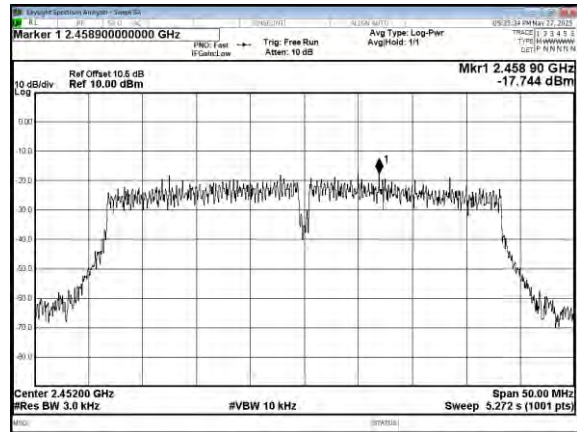


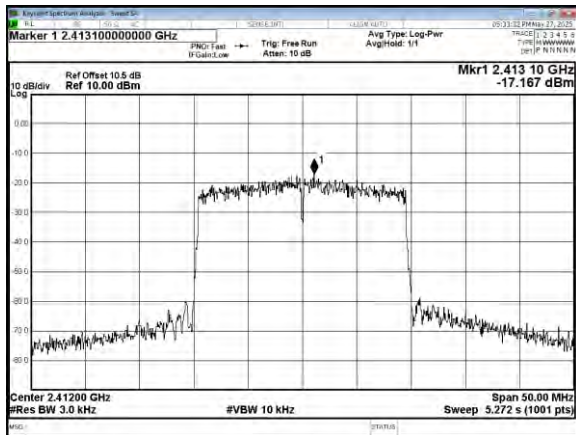
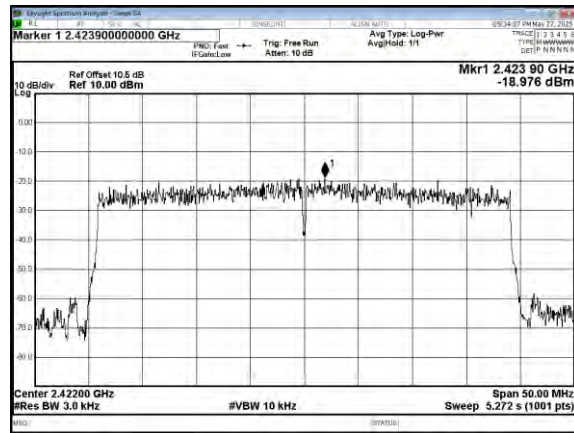
CH11



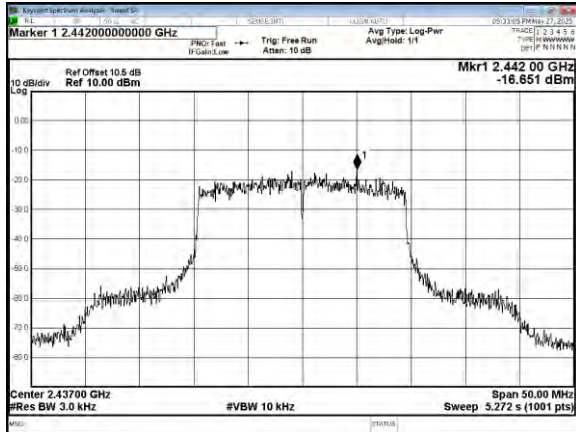
CH09



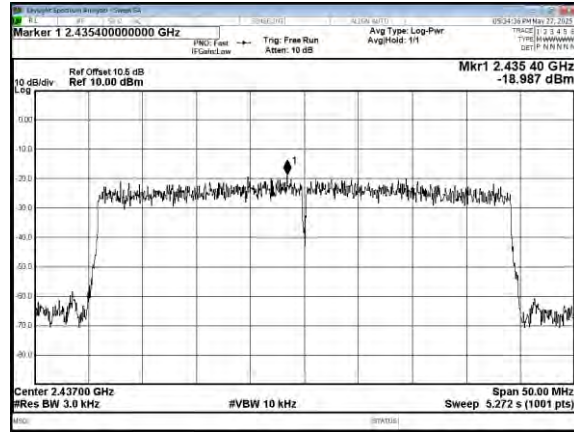
**MIMO-ANT B**Modulation Type: 802.11n HT20
CH01Modulation Type: 802.11n HT40
CH03**CH06****CH06****CH11****CH09**

Modulation Type: 802.11ax HE20
CH01Modulation Type: 802.11ax HE40
CH03

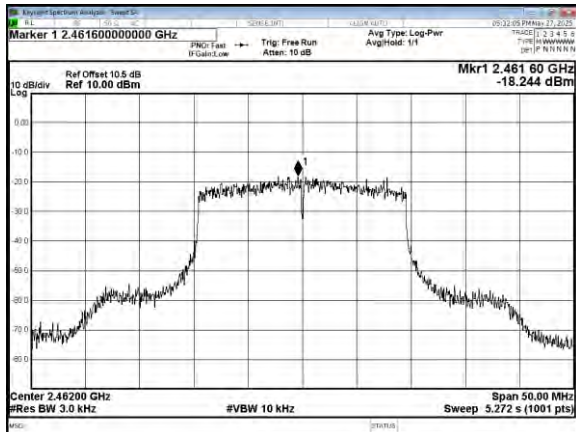
CH06



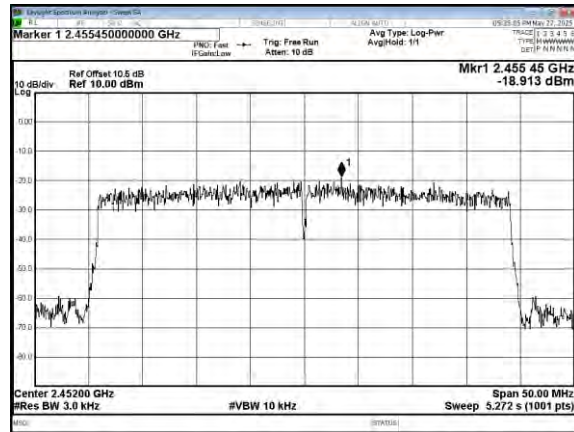
CH06



CH11



CH09



----- End of the report -----