

Test Report

Verified code: 352176

Report No.: E20230322427101-3

Customer: Shenzhen SDMC Technology Co.,Ltd.

Address: Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen,China

Sample Name: AX1800 Dual Band WiFi6 CATV GPON Terminal

Sample Model: NP1835GRF

Receive Sample Date: Mar.29,2023

Test Date: Apr.10,2023 ~ May.24,2023

Reference Document: CFR 47, FCC Part 15 Subpart E Unlicensed National Information Infrastructure Devices

Test Result: Pass

Prepared by: *Huang Lifang*

Reviewed by: *Jiang Tom*

Approved by: *Xiao Liang*

GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2023-06-02

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5. Without the agreement of the laboratory, the client is not authorized to use the test results for unapproved propaganda.

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REPORT ISSUED HISTORY

Report Version	Report No.	Description	Compile Date
1.0	E20230322427101-3	Original Issue	2023-05-25

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1. TEST RESULT SUMMARY

Standard	Item	Limit / Severity	Result
CFR 47, FCC Part 15 Subpart E (§15.407) & FCC KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 & FCC KDB 662911 D01 Multiple Transmitter Output v02r01	6dB Bandwidth & 26dB Bandwidth & 99% Occupied Bandwidth	15.407(a) 15.407(e)	PASS
	AC Power Line Conducted Emissions	15.207 15.407(b)(9)	PASS
	Unwanted Emissions and Band Edge	15.205 15.209 15.407(b)	PASS
	Output Power	15.407(a)	PASS
	Power Spectral Density	15.407(a)	PASS
	Frequency Stability	15.407(g)	PASS
	Antenna Requirement	15.203	PASS ¹⁾

Note: ¹⁾The EUT have two antennas. The antenna is Built-in antenna.
 The max gain of antenna is 4.09dBi, which accordance 15.203 is considered sufficient to comply with the provisions of this section.

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2. GENERAL DESCRIPTION OF EUT

2.1. APPLICANT

Name: Shenzhen SDMC Technology Co.,Ltd.
Address: Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen,China

2.2. MANUFACTURER

Name: Shenzhen SDMC Technology Co.,Ltd.
Address: Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen,China

2.3. BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Name: AX1800 Dual Band WiFi6 CATV GPON Terminal

Adding Product Name: AX1800 Dual Band WiFi6 GPON Terminal

Product Model: NP1835GRF

Adding Model: NP1835G, NP1835GB

Model difference description: The above series models are consistent with the main model in terms of schematic diagram, circuit design, circuit layout, and internal structure, The differences are mainly due to the inconsistency of model name and NP1835GRF with RF Port、Telephone Port but without USB Port, NP1835G without RF Port but with Telephone Port and USB Port, NP1835GB without RF Port、Telephone Port、USB Port.

Trade Name: SDMC, D FIBRA

FCC ID: 2AW68-NP1835GRF

Power Supply: DC 12.0V power supplied by adapter

Adapter Specification:

NP1835GRF:
Adapter 1:
Model:SA182V-120150U;
Input:100-240V~50/60Hz 0.4A;
Output:12V ----- 1.5A;

NP1835G:
Adapter 1:
Model:SA182V-120150U;
Input:100-240V~50/60Hz 0.4A;
Output:12V ----- 1.5A;

NP1835GB:
Adapter 1:
Model:F12L33-120100SPAU;
Input:100-240V~50/60Hz 0.3A;
Output:12V ----- 1A 12.0W;

	Adapter 2: Model:SA12BV-120100U; Input:100-240V~50/60Hz 0.4A; Output:12V ----- 1A.
Frequency Band:	U-NII-1: 5180 MHz~5240 MHz U-NII-2A: 5260 MHz~5320 MHz U-NII-2C: 5500 MHz~5720 MHz U-NII-3: 5745 MHz~5825 MHz
Modulation Type:	OFDM, OFDMA
Antenna Specification:	Built-in antenna U-NII-1: antenna 1 with 2.84dBi gain (Max.) antenna 2 with 4.09dBi gain (Max.) U-NII-2A: antenna 1 with 3.07dBi gain (Max.) antenna 2 with 3.81dBi gain (Max.) U-NII-2C: antenna 1 with 3.91dBi gain (Max.) antenna 2 with 3.90dBi gain (Max.) U-NII-3: antenna 1 with 3.81dBi gain (Max.) antenna 2 with 3.86dBi gain (Max.)
Number Of Channel	U-NII-1: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 4 Channels IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels IEEE 802.11ac VHT80 / ax HE80: 1 Channel U-NII-2A: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 4 Channels IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels IEEE 802.11ac VHT80 / ax HE80: 1 Channel U-NII-2C: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 12 Channels IEEE 802.11n HT40 / ac VHT40 / ax HE40: 6 Channels IEEE 802.11ac VHT80 / ax HE80: 3 Channel U-NII-3: IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 5 Channels IEEE 802.11n HT40 / ac VHT40 / ax HE40: 2 Channels IEEE 802.11ac VHT80 / ax HE80: 1 Channel
Channels Spacing:	IEEE 802.11a / n HT20 / ac VHT20 / ax HE20: 20MHz IEEE 802.11n HT40 / ac VHT40 / ax HE40: 40MHz IEEE 802.11ac VHT80 / ax HE80: 80MHz

Transmit Power:

- U-NII-1:
 - 21.45dBm for IEEE 802.11a
 - 23.08dBm for IEEE 802.11n HT20
 - 22.47dBm for IEEE 802.11ac VHT20
 - 22.21dBm for IEEE 802.11ax HE20
 - 23.30dBm for IEEE 802.11n HT40
 - 23.35dBm for IEEE 802.11ac VHT40
 - 19.75dBm for IEEE 802.11ax HE40
 - 22.90dBm for IEEE 802.11ac VHT80
 - 19.00dBm for IEEE 802.11ax HE80
- U-NII-2A:
 - 20.63dBm for IEEE 802.11a
 - 21.41dBm for IEEE 802.11n HT20
 - 19.80dBm for IEEE 802.11ac VHT20
 - 20.85dBm for IEEE 802.11ax HE20
 - 20.82dBm for IEEE 802.11n HT40
 - 20.81dBm for IEEE 802.11ac VHT40
 - 22.79dBm for IEEE 802.11ax HE40
 - 21.28dBm for IEEE 802.11ac VHT80
 - 19.45dBm for IEEE 802.11ax HE80
- U-NII-2C:
 - 21.70dBm for IEEE 802.11a
 - 20.96dBm for IEEE 802.11n HT20
 - 20.98dBm for IEEE 802.11ac VHT20
 - 22.08dBm for IEEE 802.11ax HE20
 - 22.36dBm for IEEE 802.11n HT40
 - 22.32dBm for IEEE 802.11ac VHT40
 - 22.28dBm for IEEE 802.11ax HE40
 - 21.77dBm for IEEE 802.11ac VHT80
 - 22.86dBm for IEEE 802.11ax HE80
- U-NII-3:
 - 21.12dBm for IEEE 802.11a
 - 22.64dBm for IEEE 802.11n HT20
 - 22.73dBm for IEEE 802.11ac VHT20
 - 22.69dBm for IEEE 802.11ax HE20
 - 22.58dBm for IEEE 802.11n HT40
 - 24.53dBm for IEEE 802.11ac VHT40
 - 22.88dBm for IEEE 802.11ax HE40
 - 22.68dBm for IEEE 802.11ac VHT80
 - 23.03dBm for IEEE 802.11ax HE80

Temperature Range: 0°C~40°C

Hardware Version: V1.0

Software Version: NP1835GRF: S01.1B.01.001
NP1835G: NP1835GR005
NP1835GB: S01.31.19.003

Sample submitting way: Provided by customer Sampling

Sample No: E20230322427101-0001, E20230322427101-0002, E20230322427101-0003,
E20230322427101-0004, E20230322427101-0005

Note: The EUT antenna gain is provided by the applicant. This report is made solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.

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2.4. TEST OPERATION MODE

Mode No.	Description of the modes
1	5G Wi-Fi TX mode

2.5. CHANNEL LIST

Mode	Band	Channel	Frequency (MHz)
IEEE 802.11a / IEEE 802.11n HT20/IEEE 802.11ac VHT20/ IEEE 802.11ax HE20	U-NII-1	36	5180
		40	5200
		44	5220
		48	5240
	U-NII-2A	52	5260
		56	5280
		60	5300
		64	5320
	U-NII-2C	100	5500
		104	5520
		108	5540
		112	5560
		116	5580
		120	5600
		124	5620
		128	5640
		132	5660
		136	5680
	U-NII-3	140	5700
		144	5720
149		5745	
153		5765	
157		5785	
161		5805	
		165	5825

Mode	Band	Channel	Frequency (MHz)
IEEE 802.11 n HT40/ IEEE 802.11 ac VHT40/ IEEE 802.11ax HE40	U-NII-1	38	5190
		46	5230
	U-NII-2A	51	5270
		62	5310
	U-NII-2C	102	5510
		110	5550
		118	5590
		126	5630
		134	5670
	U-NII-3	142	5710
		151	5755
		159	5795

Mode	Band	Channel	Frequency (MHz)
IEEE 802.11ac VHT80/ IEEE 802.11ax HE80	U-NII-1	42	5210
	U-NII-2A	58	5290
	U-NII-2C	106	5530
		122	5610
		138	5690
	U-NII-3	155	5775

2.6. LOCAL SUPPORTIVE INSTRUMENTS

Name of Equipment	Manufacturer	Model	Serial Number	Note
Notebook	DELL	Latitude3400	8RZFJW2	/

No.	Cable Type	Qty.	Shielded Type	Ferrite Core(Qty.)	Length
1	DC cable	1	No	0	1.2m
2	RJ45	1	No	0	1.2m

2.7. CONFIGURATION OF SYSTEM UNDER TEST



Test software:

Software version
QATool_Dbg

Power Setting:

Mode	Frequency (MHz)	Antenna 1 Power Setting	Antenna 2 Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11a	5180	17	18	IEEE 802.11n HT20	5180	18
	5200	19	19		5200	18
	5240	19	19		5240	19
	5260	17	17.5		5260	17
	5280	19	19		5280	17.5
	5320	17	17.5		5320	17
	5500	17.5	16.5		5500	16
	5580	19	19		5580	16
	5700	17.5	19		5700	16
	5720	17.5	17.5		5720	16.5
	5745	19	19		5745	19
	5785	19	19		5785	19
	5825	19	19		5825	19

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11ac VHT20	5180	18	IEEE 802.11ax HE20	5180	17
	5200	15		5200	18
	5240	14		5240	18
	5260	16		5260	17
	5280	16		5280	16.5
	5320	14		5320	17
	5500	12		5500	17
	5580	16		5580	16.5
	5700	16		5700	16
	5720	16.5		5720	16.5
	5745	19		5745	19
	5785	19		5785	19
	5825	19		5825	19

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11n HT40	5190	17	IEEE 802.11ac VHT40	5190	15	IEEE 802.11ax HE40	5190	15
	5230	19		5230	19		5230	15
	5270	17		5270	17		5270	15
	5310	17		5310	16.5		5310	19
	5510	17.5		5510	17.5		5510	16
	5550	18		5550	17		5550	17
	5670	17.5		5670	17.5		5670	16
	5710	17.5		5710	17.5		5710	17.5
	5755	19		5755	20		5755	19
	5795	19		5795	21		5795	19

Mode	Frequency (MHz)	Power Setting	Mode	Frequency (MHz)	Power Setting
IEEE 802.11ac VHT80	5210	18	IEEE 802.11ax HE80	5210	15
	5290	17		5290	16
	5530	17.5		5530	17
	5610	17.5		5610	18
	5690	17.5		5690	17.5
	5775	19		5775	19

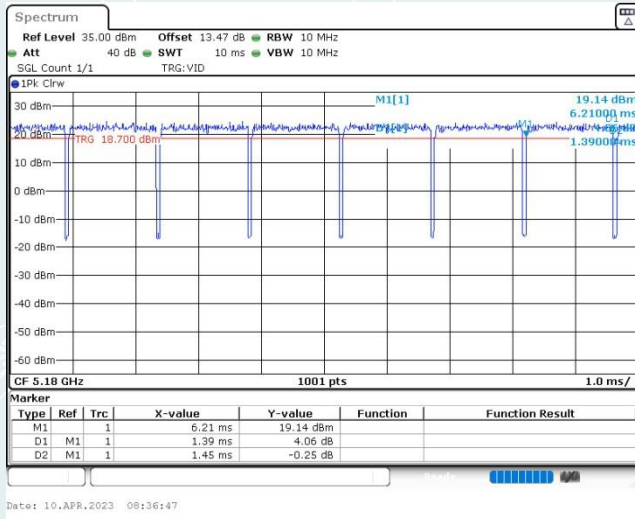
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2.8. DUTY CYCLE

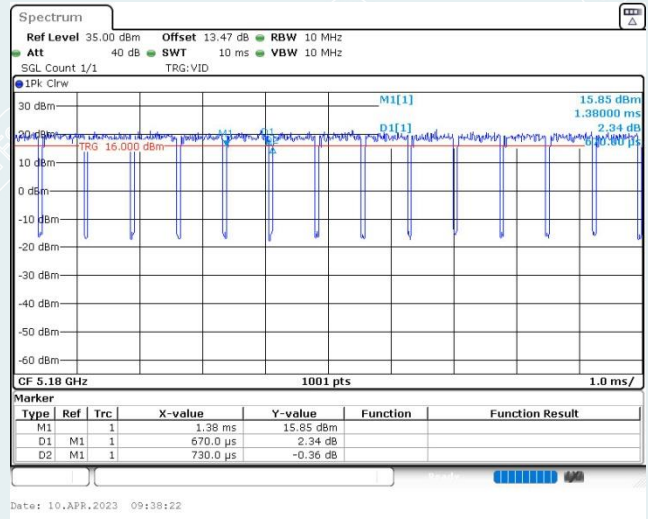
EUT Name	AX1800 Dual Band WiFi6 CATV GPON Terminal	Model	NP1835GRF
Environmental Conditions	22.6°C/66%RH/101.0kPa	Test Voltage	AC 120V/60HZ
Tested By	Yang Zhaoyun	Tested Date	2023-04-10 ~ 2023-05-08

Duty Cycle Calculation						
Mode	Frequency[MHz]	ON Time(ms)	Total Time(ms)	Duty Cycle(%)	Duty Factor (dB)	T(s)
802.11a	5180	1.39	1.45	95.86	0.18	0.00139
802.11n HT20	5180	0.67	0.73	91.78	0.37	0.00067
802.11n HT40	5190	0.34	0.40	85.00	0.71	0.00034
802.11ac VHT20	5180	0.68	0.74	91.89	0.37	0.00168
802.11ac VHT40	5190	0.35	0.41	85.37	0.69	0.00035
802.11ac VHT80	5210	0.19	0.25	76.00	1.19	0.00019
802.11ax HE20	5180	0.56	0.62	90.32	0.44	0.00056
802.11ax HE40	5190	0.32	0.38	0.32	0.75	0.00032
802.11ax HE80	5210	0.19	0.25	76.00	1.19	0.00019

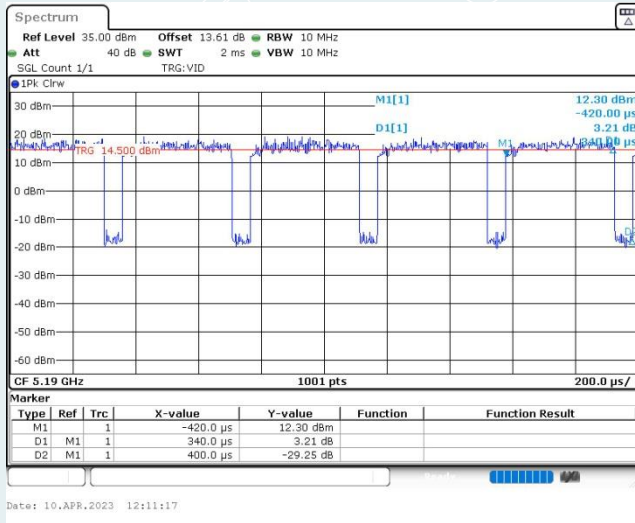
802.11a_5180MHz



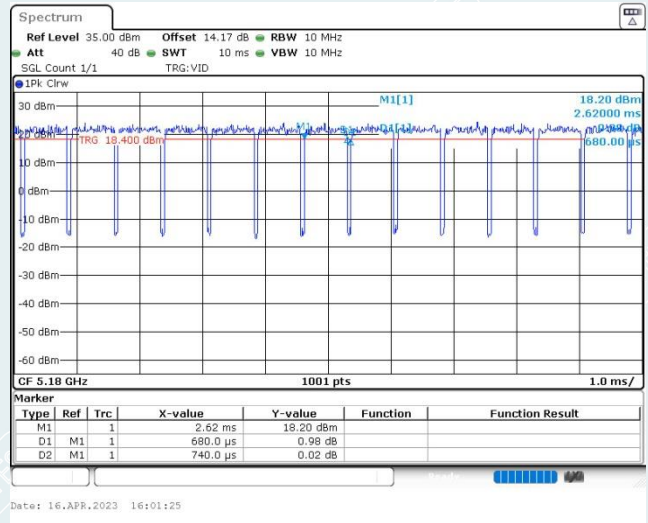
802.11n HT20_5180MHz



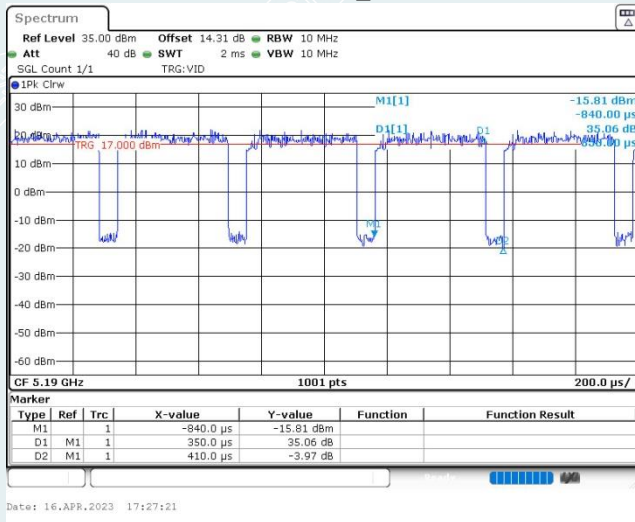
802.11n HT40_5190MHz



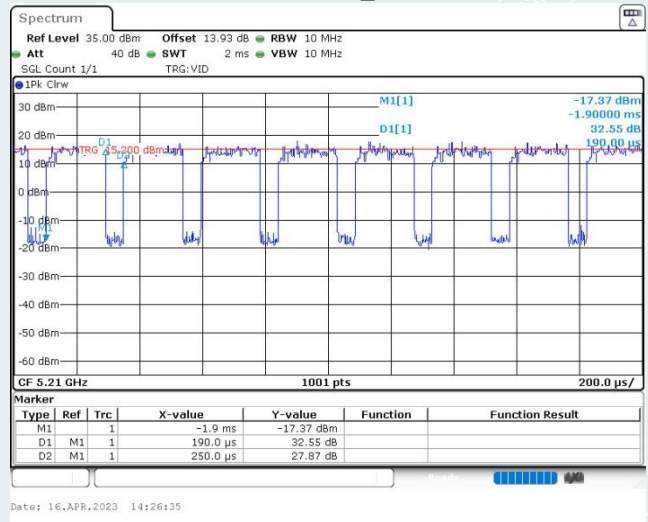
802.11ac VHT20_5180MHz



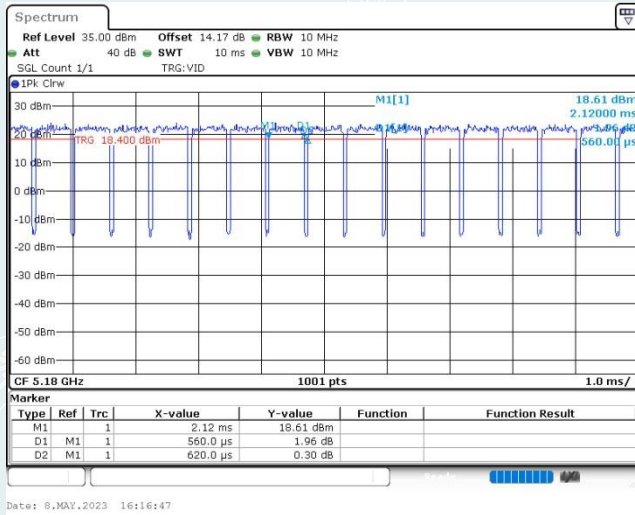
802.11ac VHT40_5190MHz



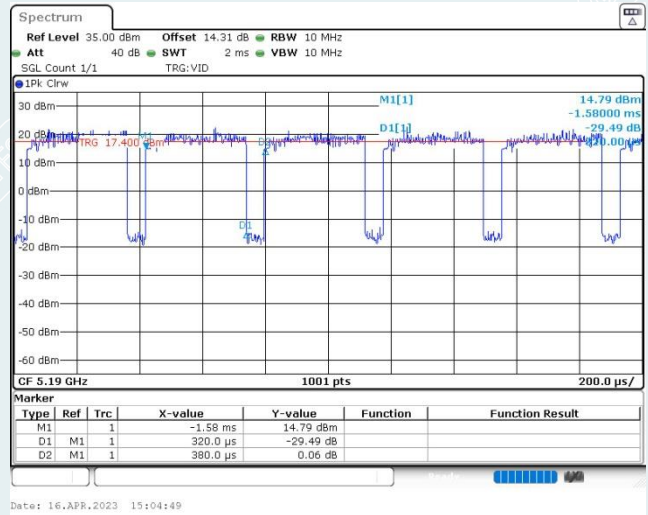
802.11ac VHT80_5210MHz



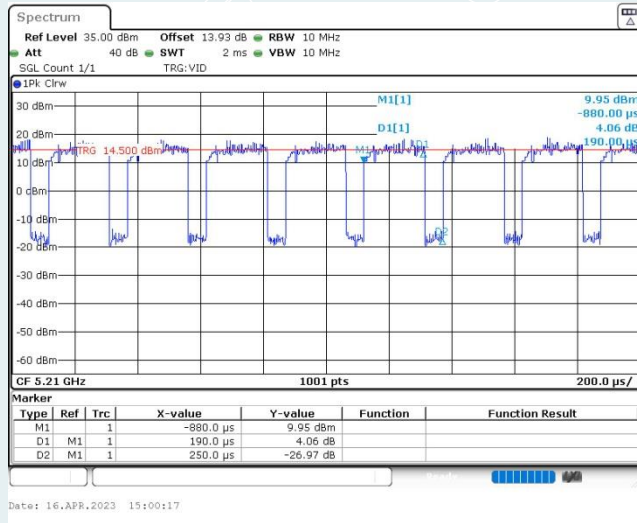
802.11ax HE20_5180MHz



802.11ax HE40_5190MHz



802.11ax HE80_5210MHz



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3. LABORATORY AND ACCREDITATIONS

3.1. LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

Add : No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District
Shenzhen, 518110, People's Republic of China

P.C. : 518110

Tel : 0755-61180008

Fax : 0755-61180008

3.2. ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA A2LA(Certificate #2861.01)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada ISED (Company Number: 24897, CAB identifier:CN0069)

USA FCC (Registration Number: 759402, Designation Number:CN1198)

Copies of granted accreditation certificates are available for downloading from our web site,
U<http://www.grgtest.com>

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3.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement		Frequency	Uncertainty
Radiated Emission	Horizontal	9kHz~30MHz	4.46dB
		30MHz~1000MHz	4.30dB
		1GHz~18GHz	5.60dB
		18GHz~26GHz	3.65dB
		26GHz~40GHz	4.00dB
	Vertical	9kHz~30MHz	4.46dB
		30MHz~1000MHz	4.30dB
		1GHz~18GHz	5.60dB
		18GHz~26GHz	3.65dB
		26GHz~40GHz	4.00dB

Measurement	Uncertainty
RF frequency	6.0×10^{-6}
RF power conducted	0.78 dB
Occupied channel bandwidth	0.4 dB
Unwanted emission, conducted	0.68 dB
Humidity	6 %
Temperature	2 °C

This uncertainty represents an expanded uncertainty factor of $k=2$.

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4. LIST OF USED TEST EQUIPMENT AT GRGT

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Conducted Emissions				
EZ-EMC	EZ	CCS-3A1-CE	/	/
EMI Receiver	R&S	ESCI	100783	2023-08-28
LISN(EUT)	R&S	ENV216	101543	2023-09-13
Radiated Spurious Emission&Restricted bands of operation				
Test S/W	EZ	CCS-2ANT	/	/
Loop Antenna	Schwarzbeck	FMZB 1513-60	1513-60-56	2023-08-06
Test Receiver	R&S	ESR7	102444	2023-09-02
Preamplifier	EMEC	EM330	I00426	2024-02-06
Bi-log Antenna	TESEQ	CBL6143A	26039	2024-10-23
Horn Antenna	Schwarzbeck	BBHA 9120D	02143	2023-10-15
Test Receiver	R&S	ESR26	101758	2023-10-27
Spectrum Analyzer	R&S	FSW43	102072	2023-09-02
Board-Band Horn Antenna	Schwarzbeck	BBHA 9170	BBHA 9170-497	2023-10-14
Amplifier	Tonscend	TAP01018048	AP20E8060075	2024-04-11
Amplifier	Tonscend	TAP184050	AP20E806071	2024-04-16
Amplifier	SHIRONG	DLNA-1G18G-G4	20200928005	2023-08-27
Test S/W	Tonscend	JS32-RE/2.5.2.4		
6DB Bandwidth &26DB Bandwidth& 99% Occupied bandwidth				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Automatic power measuring unit	TONSCEND	JS0806-2	21B8060365	2023-11-17
Output Power				
Pulse power sensor	Anristu	MA2411B	1126150	2024-02-12
Power Meter	Anristu	NL2495A	1204003	2024-02-12

Frequency Stability				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Temperature & humidity chamber	HOSON	HS01060SDF	201013401	2023-08-19
DC Source	Keysight	E36131A	MY59001139	2023-10-24
Automatic power measuring unit	TONSCEND	JS0806-2	21B8060365	2023-11-17
Power Spectral Density				
Spectrum Analyzer	R&S	FSV30	104381	2023-11-17
Automatic power measuring unit	TONSCEND	JS0806-2	21B8060365	2023-11-17

Note: The calibration interval of the above test instruments is 12 months except Bi-log Antenna, The calibration interval of the Bi-log Antenna is 24 months.

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5. CONDUCTED EMISSION MEASUREMENT

5.1 LIMITS

Frequency range	Limits (dB μ V)	
	Quasi-peak	Average
150kHz~0.5MHz	66~56	56~46
0.5MHz~5MHz	56	46
5MHz~30MHz	60	50

5.2 TEST PROCEDURES

Procedure of Preliminary Test

For measurement of the disturbance voltage the equipment under test (EUT) is connected to the power supply mains and any other extended network via one or more artificial network(s). An EUT, whether intended to be grounded or not, and which is to be used on a table is configured as follows:

– Either the bottom or the rear of the EUT shall be at a controlled distance of 40 cm from a reference ground plane. This ground plane is normally the wall or floor of a shielded room. It may also be a grounded metal plane of at least 2 m by 2 m. This is physically accomplished as follows:

1) Place the EUT on a table of non-conducting material which is at least 80 cm high. Place the EUT so that it is 40 cm from the wall of the shielded room, or

2) place the EUT on a table of non-conducting material which is 40 cm high so that the bottom of the EUT is 40 cm above the ground plane;

– All other conductive surfaces of the EUT shall be at least 80 cm from the reference ground plane;

– The EUT are placed on the floor that one side of the housings is 40 cm from the vertical reference ground plane and other metallic parts;

– Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth forming a bundle 30 cm to 40 cm long, hanging approximately in the middle between the ground plane and the table.

– I/O cables that are connected to a peripheral shall be bundled in the centre. The end of the cable may be terminated if required using correct terminating impedance. The total length shall not exceed 1 m.

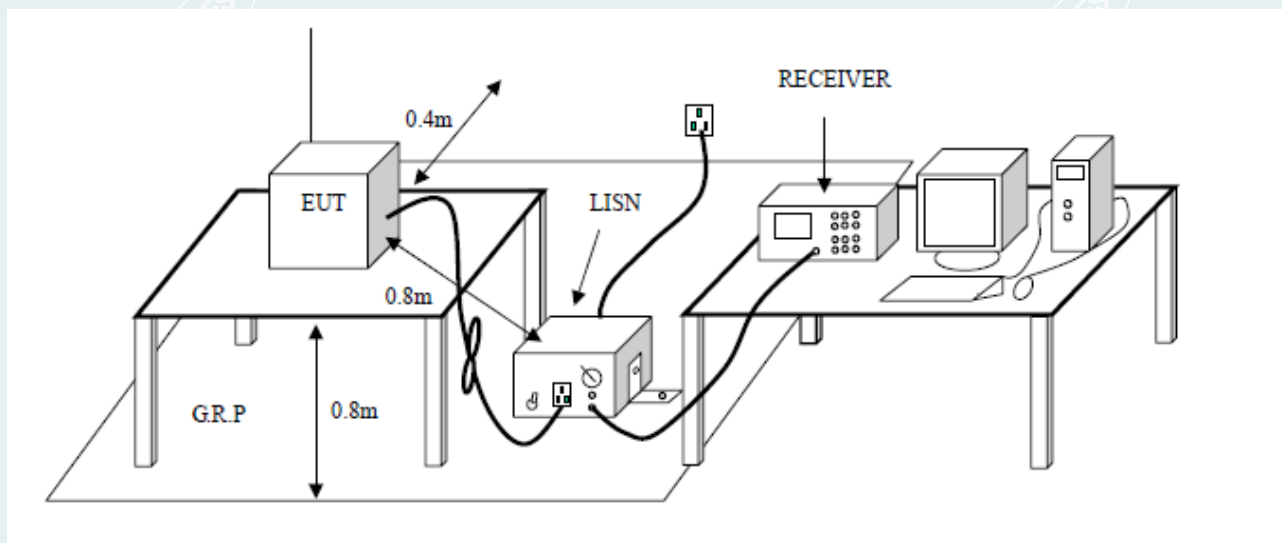
The test mode(s) described in Item 2.5 were scanned during the preliminary test. After the preliminary scan, we found the test mode described in Item 2.5 producing the highest emission level. The EUT configuration and cable configuration of the above highest emission levels were recorded for reference of the final test.

Procedure of Final Test

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test. A scan was taken on both power lines, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. The test data of the worst-case condition(s) was recorded.

5.3 TEST SETUP



5.4 DATA SAMPLE

Frequency (MHz)	QuasiPeak Reading (dBuV)	Average Reading (dBuV)	Correction Factor (dB)	QuasiPeak Result (dBuV)	Average Result (dBuV)	QuasiPeak Limit (dBuV)	Average Limit (dBuV)	QuasiPeak Margin (dB)	Average Margin (dB)	Remark (Pass/Fail)
X.XXXX	32.69	25.65	11.52	44.21	37.17	65.78	55.79	-21.57	-18.62	Pass

- Factor = Insertion loss of LISN + Cable Loss
- Result = Quasi-peak Reading/ Average Reading + Factor
- Limit = Limit stated in standard
- Margin = Result (dBuV) – Limit (dBuV)

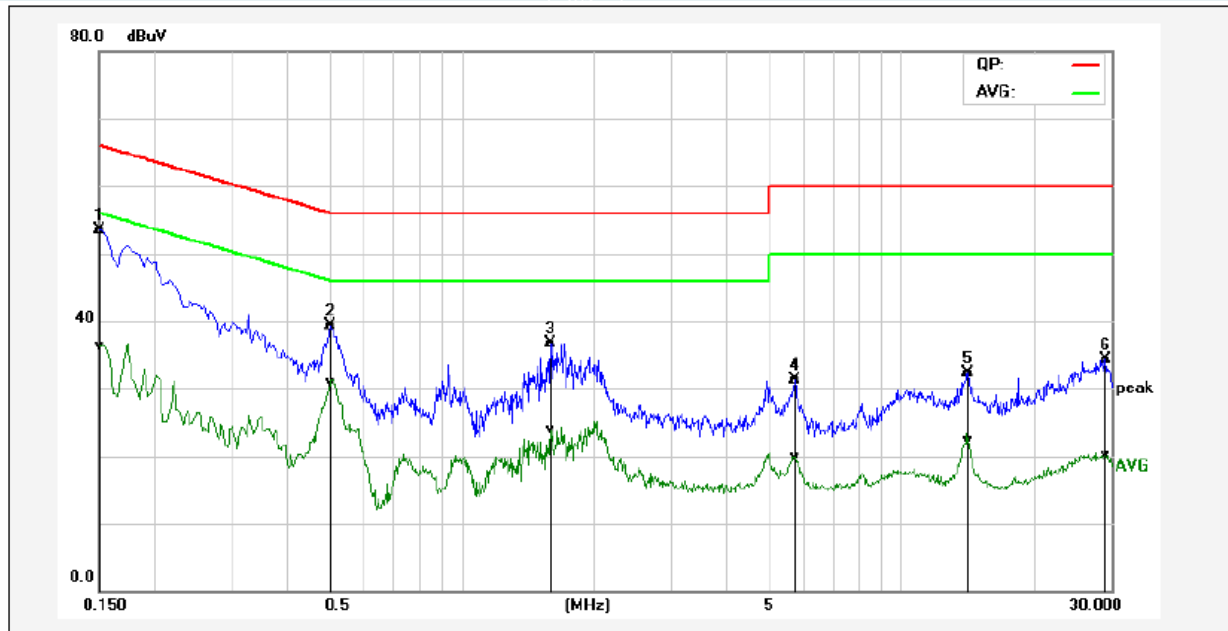
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5.5 TEST RESULTS

All models were pretested and only the worst modes and channels were recorded in this report. (IEEE 802.11ac VHT40 5795MHz)

EUT Name	AX1800 Dual Band WiFi6 CATV GPON Terminal	Model	NP1835GRF
Environmental Conditions	22.7°C/51%RH	Test Mode	MODE 1
Tested By	Tang Shenghui	Line	L
Tested Date	2023-05-09	Test Voltage	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)

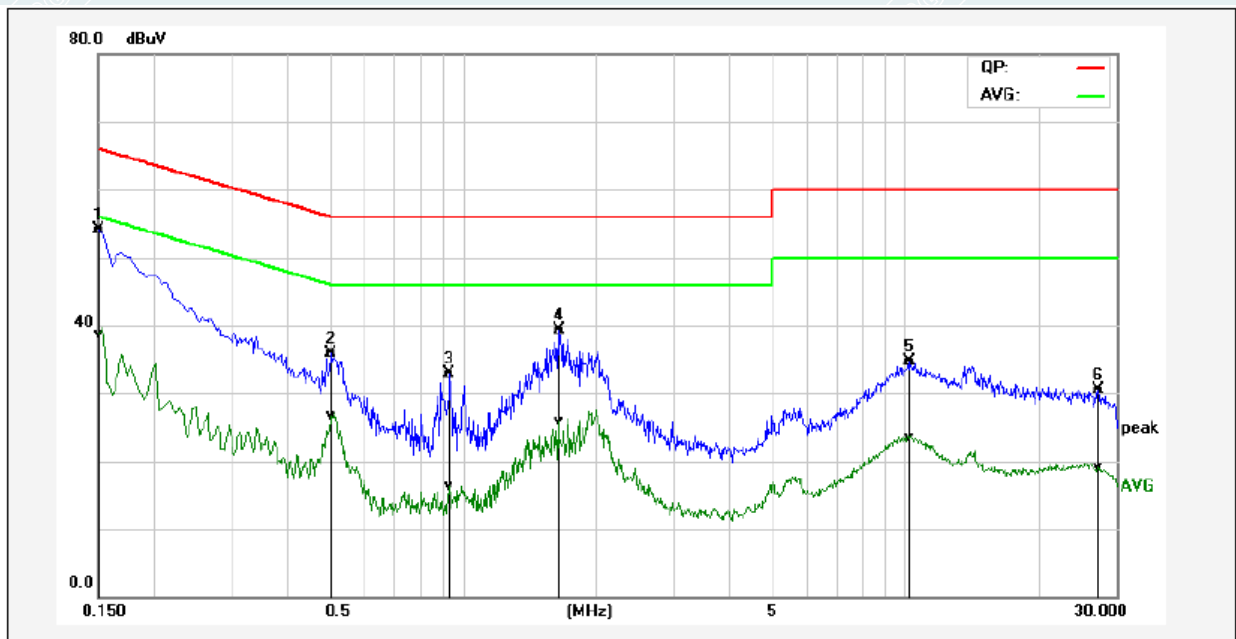


No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	43.84	26.62	9.61	53.45	36.23	65.99	56.00	-12.54	-19.77	Pass
2	0.5020	29.67	21.33	9.61	39.28	30.94	56.00	46.00	-16.72	-15.06	Pass
3	1.5980	27.14	14.18	9.65	36.79	23.83	56.00	46.00	-19.21	-22.17	Pass
4	5.7340	21.65	10.25	9.71	31.36	19.96	60.00	50.00	-28.64	-30.04	Pass
5	14.1660	22.53	12.41	9.80	32.33	22.21	60.00	50.00	-27.67	-27.79	Pass
6	29.1820	24.42	10.33	9.85	34.27	20.18	60.00	50.00	-25.73	-29.82	Pass

REMARKS: L = Live Line

EUT Name	AX1800 Dual Band WiFi6 CATV GPON Terminal	Model	NP1835GRF
Environmental Conditions	22.7°C/51%RH	Test Mode	MODE 1
Tested By	Tang Shenghui	Line	N
Tested Date	2023-05-09	Test Voltage	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)

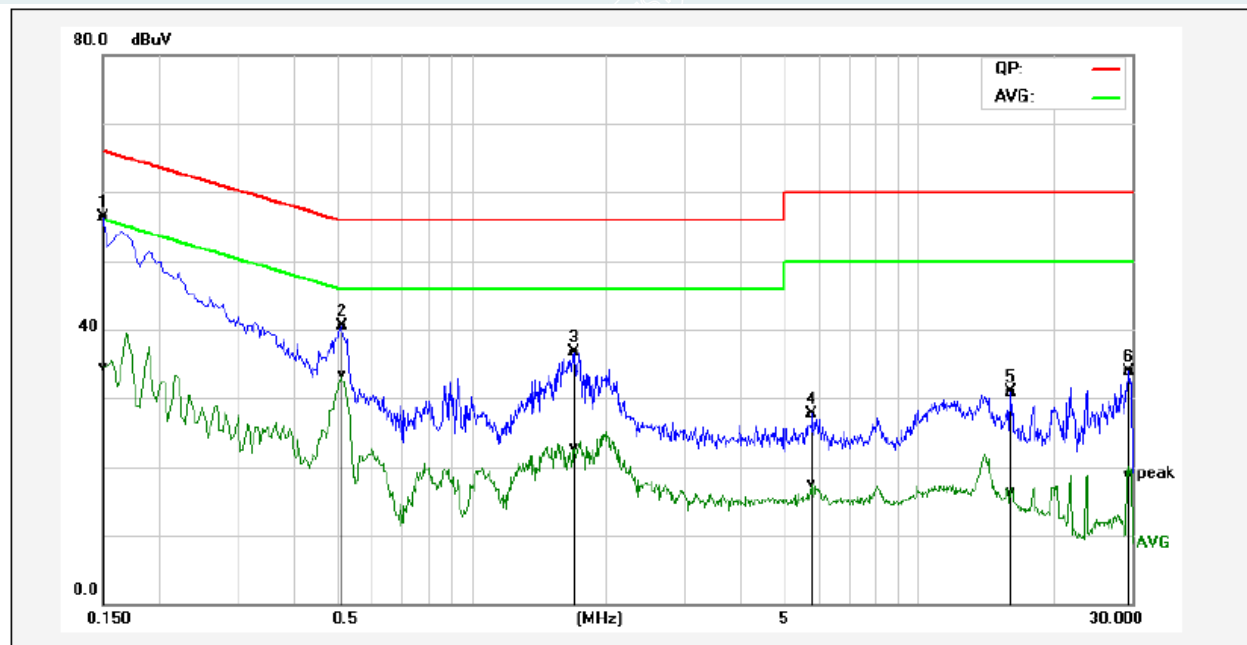


No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	44.42	29.10	9.60	54.02	38.70	65.99	56.00	-11.97	-17.30	Pass
2	0.5060	26.26	17.04	9.60	35.86	26.64	56.00	46.00	-20.14	-19.36	Pass
3	0.9340	23.18	6.73	9.63	32.81	16.36	56.00	46.00	-23.19	-29.64	Pass
4	1.6460	29.57	16.18	9.64	39.21	25.82	56.00	46.00	-16.79	-20.18	Pass
5	10.2020	24.87	13.63	9.79	34.66	23.42	60.00	50.00	-25.34	-26.58	Pass
6	27.3660	20.38	9.01	10.06	30.44	19.07	60.00	50.00	-29.56	-30.93	Pass

REMARKS: N = Neutral Line.

EUT Name	AX1800 Dual Band WiFi6 GPON Terminal	Model	NP1835G
Environmental Conditions	22.7°C/51%RH	Test Mode	MODE 1
Tested By	Tang Shenghui	Line	L
Tested Date	2023-05-09	Test Voltage	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)

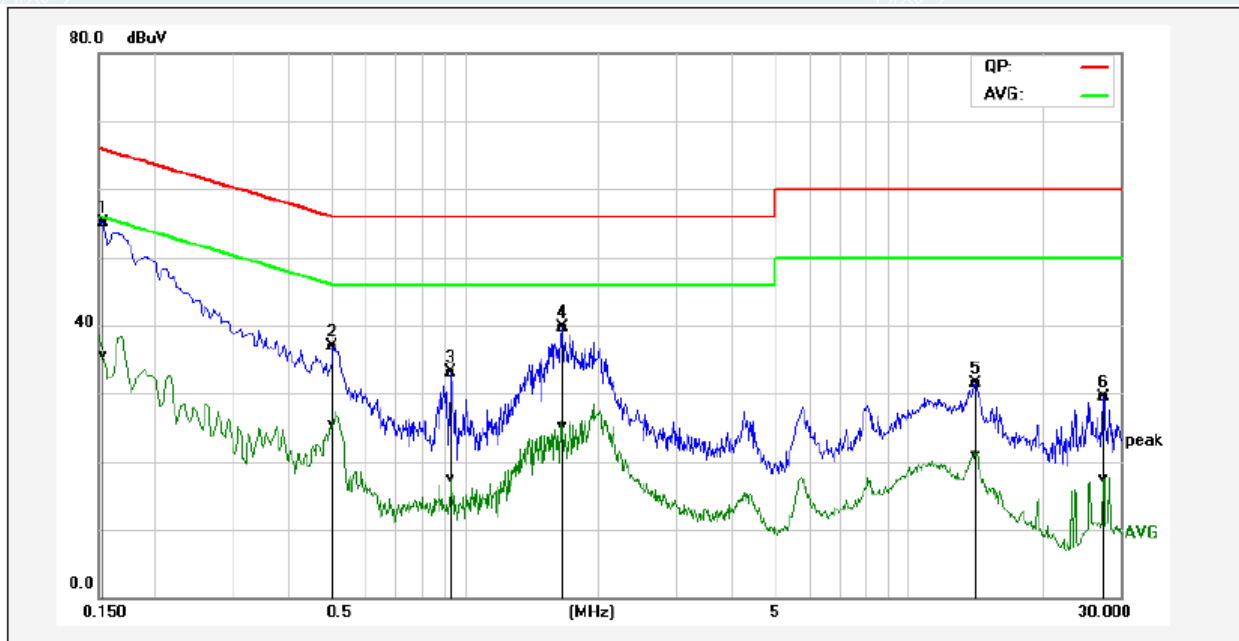


No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	46.74	24.89	9.61	56.35	34.50	65.99	56.00	-9.64	-21.50	Pass
2	0.5140	30.84	23.71	9.61	40.45	33.32	56.00	46.00	-15.55	-12.68	Pass
3	1.7020	27.10	12.96	9.65	36.75	22.61	56.00	46.00	-19.25	-23.39	Pass
4	5.7900	17.95	7.73	9.71	27.66	17.44	60.00	50.00	-32.34	-32.56	Pass
5	16.0740	21.11	6.56	9.83	30.94	16.39	60.00	50.00	-29.06	-33.61	Pass
6	29.5340	24.13	8.82	9.84	33.97	18.66	60.00	50.00	-26.03	-31.34	Pass

REMARKS: L = Live Line

EUT Name	AX1800 Dual Band WiFi6 GPON Terminal	Model	NP1835G
Environmental Conditions	22.7°C/51%RH	Test Mode	MODE 1
Tested By	Tang Shenghui	Line	N
Tested Date	2023-05-09	Test Voltage	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)



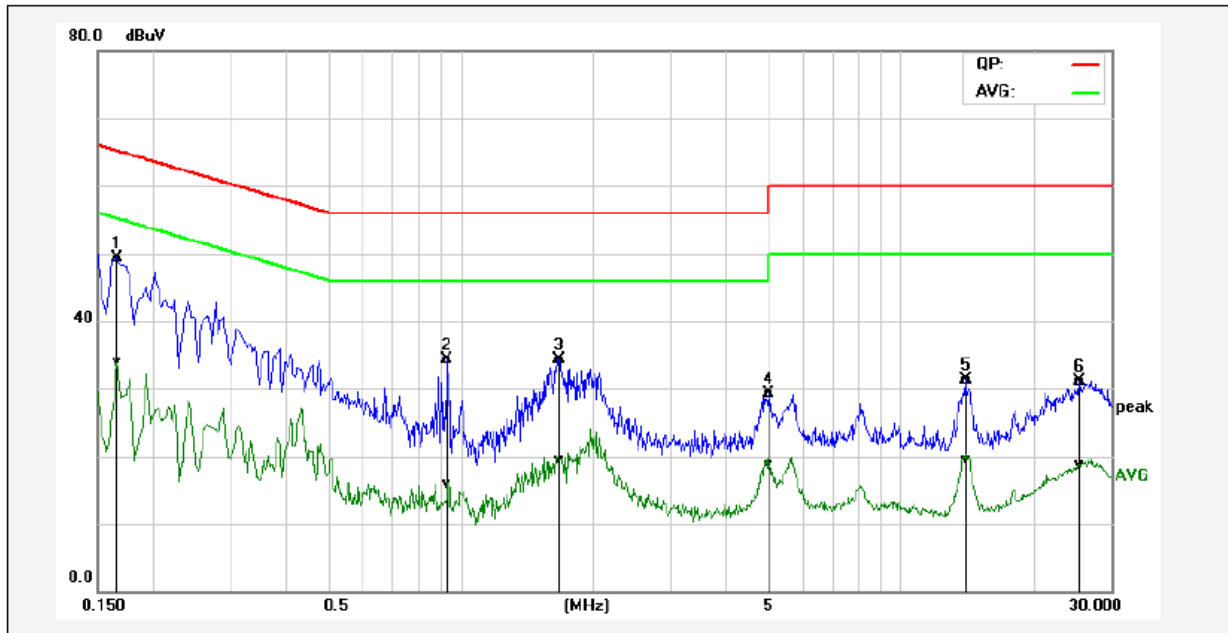
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1539	45.59	25.91	9.60	55.19	35.51	65.78	55.79	-10.59	-20.28	Pass
2	0.5060	27.21	15.93	9.60	36.81	25.53	56.00	46.00	-19.19	-20.47	Pass
3	0.9380	23.55	7.84	9.63	33.18	17.47	56.00	46.00	-22.82	-28.53	Pass
4	1.6700	30.00	15.46	9.64	39.64	25.10	56.00	46.00	-16.36	-20.90	Pass
5	14.1620	21.65	10.97	9.86	31.51	20.83	60.00	50.00	-28.49	-29.17	Pass
6	27.4620	19.40	7.49	10.06	29.46	17.55	60.00	50.00	-30.54	-32.45	Pass

REMARKS: N = Neutral Line.

Adapter 1(F12L33-120100SPAU)

EUT Name	AX1800 Dual Band WiFi6 GPON Terminal	Model	NP1835GB
Environmental Conditions	22.7°C/51%RH	Test Mode	MODE 1
Tested By	Tang Shenghui	Line	L
Tested Date	2023-05-09	Test Voltage	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)



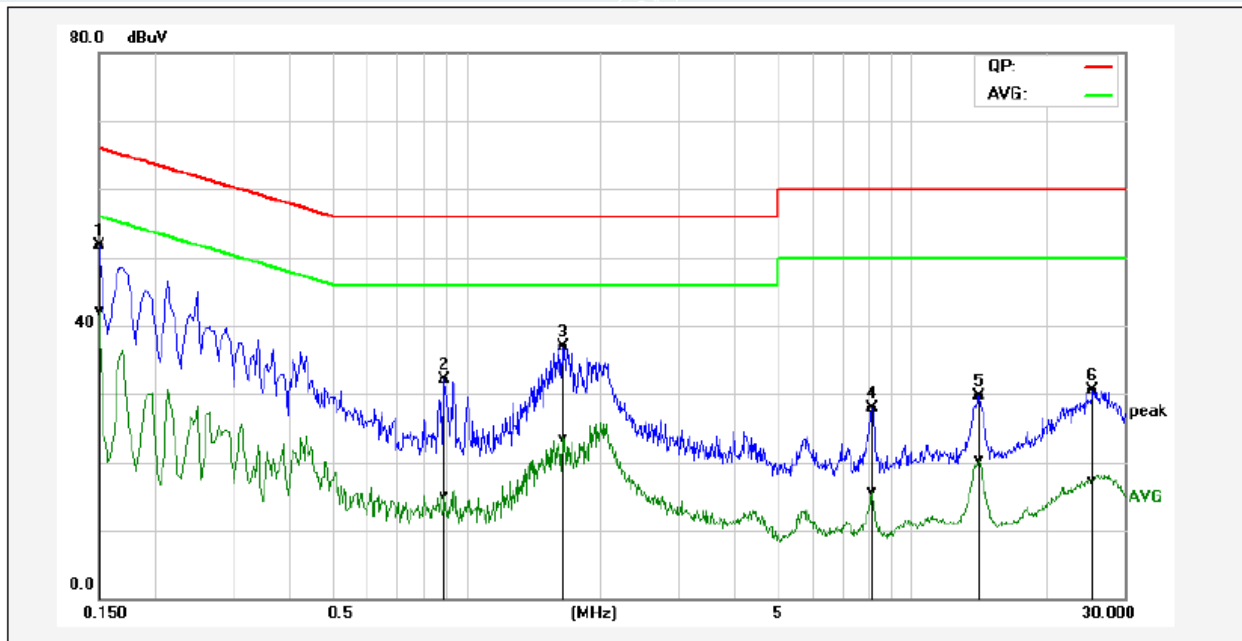
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1660	39.66	24.31	9.61	49.27	33.92	65.15	55.16	-15.88	-21.24	Pass
2	0.9340	24.62	6.26	9.63	34.25	15.89	56.00	46.00	-21.75	-30.11	Pass
3	1.6780	24.69	9.90	9.65	34.34	19.55	56.00	46.00	-21.66	-26.45	Pass
4	5.0220	19.63	8.98	9.70	29.33	18.68	60.00	50.00	-30.67	-31.32	Pass
5	14.0540	21.41	9.72	9.80	31.21	19.52	60.00	50.00	-28.79	-30.48	Pass
6	25.5100	21.22	8.77	9.93	31.15	18.70	60.00	50.00	-28.85	-31.30	Pass

REMARKS: L = Live Line

Adapter 1(F12L33-120100SPAU)

EUT Name	AX1800 Dual Band WiFi6 GPON Terminal	Model	NP1835GB
Environmental Conditions	22.7°C/51%RH	Test Mode	MODE 1
Tested By	Tang Shenghui	Line	N
Tested Date	2023-05-09	Test Voltage	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)



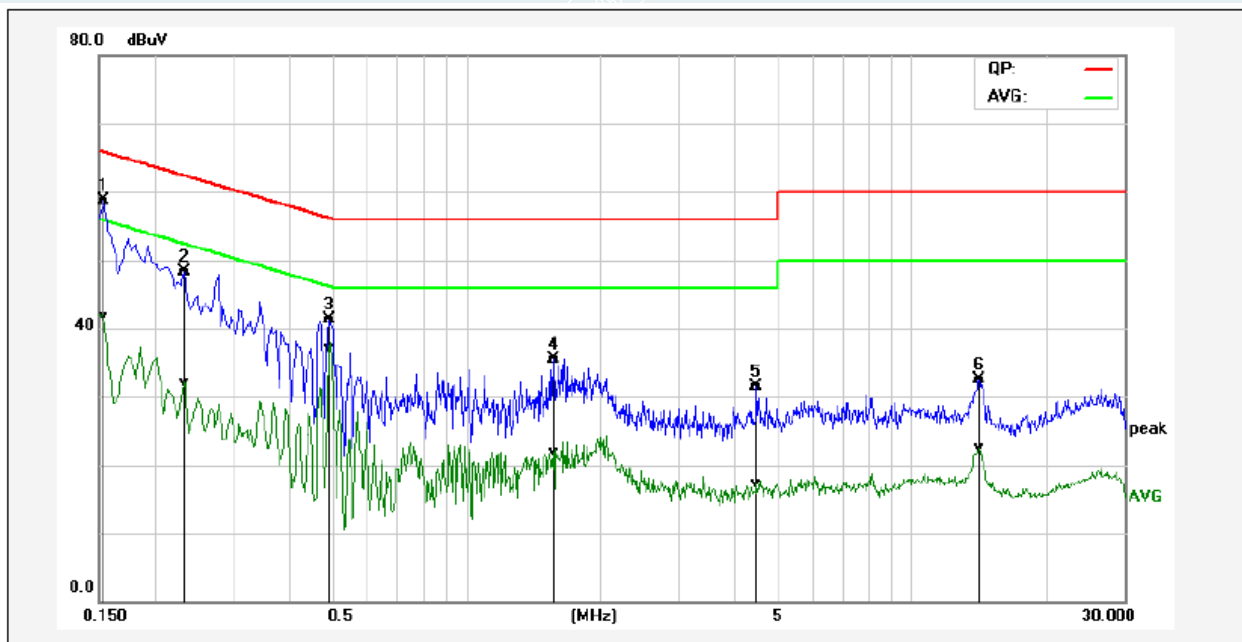
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	42.17	32.52	9.60	51.77	42.12	65.99	56.00	-14.22	-13.88	Pass
2	0.8980	22.56	5.49	9.63	32.19	15.12	56.00	46.00	-23.81	-30.88	Pass
3	1.6460	27.29	13.96	9.64	36.93	23.60	56.00	46.00	-19.07	-22.40	Pass
4	8.1500	18.14	5.94	9.76	27.90	15.70	60.00	50.00	-32.10	-34.30	Pass
5	14.1860	19.92	10.41	9.86	29.78	20.27	60.00	50.00	-30.22	-29.73	Pass
6	25.5380	20.44	7.29	10.07	30.51	17.36	60.00	50.00	-29.49	-32.64	Pass

REMARKS: N = Neutral Line.

Adapter 2(SA12BV-120100U)

EUT Name	AX1800 Dual Band WiFi6 GPON Terminal	Model	NP1835GB
Environmental Conditions	22.7°C/51%RH	Test Mode	MODE 1
Tested By	Tang Shenghui	Line	L
Tested Date	2023-05-09	Test Voltage	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)



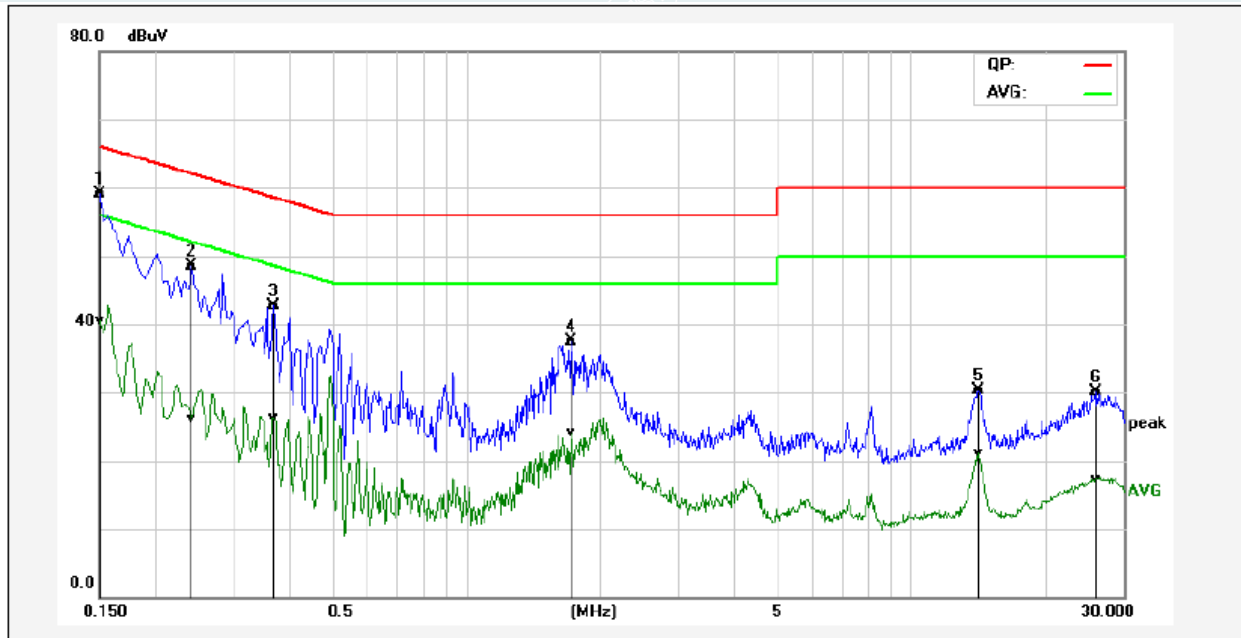
No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1539	49.04	32.04	9.61	58.65	41.65	65.78	55.79	-7.13	-14.14	Pass
2	0.2340	38.66	22.47	9.61	48.27	32.08	62.30	52.31	-14.03	-20.23	Pass
3	0.4940	31.61	27.47	9.61	41.22	37.08	56.10	46.10	-14.88	-9.02	Pass
4	1.5700	25.87	12.30	9.65	35.52	21.95	56.00	46.00	-20.48	-24.05	Pass
5	4.4820	21.74	7.61	9.69	31.43	17.30	56.00	46.00	-24.57	-28.70	Pass
6	14.1740	22.79	12.68	9.80	32.59	22.48	60.00	50.00	-27.41	-27.52	Pass

REMARKS: L = Live Line

Adapter 2(SA12BV-120100U)

EUT Name	AX1800 Dual Band WiFi6 GPON Terminal	Model	NP1835GB
Environmental Conditions	22.7°C/51%RH	Test Mode	MODE 1
Tested By	Tang Shenghui	Line	N
Tested Date	2023-05-09	Test Voltage	AC 120V/60Hz

(The chart below shows the highest readings taken from the final data.)



No.	Frequency (MHz)	QuasiPeak reading (dBuV)	Average reading (dBuV)	Correction factor (dB)	QuasiPeak result (dBuV)	Average result (dBuV)	QuasiPeak limit (dBuV)	Average limit (dBuV)	QuasiPeak margin (dB)	Average margin (dB)	Remark
1*	0.1500	49.55	30.81	9.60	59.15	40.41	65.99	56.00	-6.84	-15.59	Pass
2	0.2420	38.84	16.58	9.60	48.44	26.18	62.02	52.03	-13.58	-25.85	Pass
3	0.3700	33.12	16.65	9.60	42.72	26.25	58.50	48.50	-15.78	-22.25	Pass
4	1.7180	27.84	14.37	9.64	37.48	24.01	56.00	46.00	-18.52	-21.99	Pass
5	14.1980	20.38	11.30	9.86	30.24	21.16	60.00	50.00	-29.76	-28.84	Pass
6	25.9820	19.94	7.33	10.07	30.01	17.40	60.00	50.00	-29.99	-32.60	Pass

REMARKS: N = Neutral Line.

6. RADIATED SPURIOUS EMISSIONS

6.1 LIMITS

The maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

- (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- (4) For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

The unwanted emissions which fall in Restricted bands shall not exceed the field strength levels specified in the following table:

15.209 Radiated emission limits

Frequency (MHz)	Field Strength(μ V/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

----- The following blanks -----

6.2 TEST PROCEDURES

- a. EUT was placed on a turn table, which is 0.8 meter high above ground for below 1GHz test, and which is 1.5 meter high above ground for above 1GHz test.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- e. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- f. Spectrum analyzer setting parameters please see the below table.
- g. Repeat above procedures until all channels were measured.
- h. Record the results in the test report.

For 9kHz-150kHz

Spectrum Parameters	Setting
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)
Start frequency	9kHz
Stop frequency	150kHz
Sweep Time	Auto
Detector	PEAK/QP/AVG
Trace Mode	Max Hold

Note : For 9kHz-90kHz&110kHz-150kHz,the detector is average,other frequency is CISPR QP detector.

For 150kHz-30MHz

Spectrum Parameters	Setting
RBW	9kHz
VBW	9kHz
Start frequency	150kHz
Stop frequency	30MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

Note : For 150kHz-490kHz,the detector is average,other frequency is CISPR QP detector.

----- The following blanks -----

For 30MHz-1GHz

Spectrum Parameters	Setting
RBW	120kHz
VBW	300kHz
Start frequency	30MHz
Stop frequency	1GHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

For Above 1GHz

Spectrum Parameters	Setting	
RBW	1MHz	
VBW	PEAK Measurement	AVG Measurement
	3MHz	Duty cycle ≥ 98%, VBW = 10Hz Duty cycle < 98%, VBW ≥ 1/T Video bandwidth mode = RMS (power averaging)
Start frequency	1GHz	
Stop frequency	40GHz	
Sweep Time	Auto	
Detector	PEAK	
Trace Mode	Max Hold	

Note :

- (1) T is the on-time time of the duty cycle, when EUT transmit continuously with maximum output power, unit is seconds. reference section 2.8 for the on-time time.
- (2) Convert the resultant EIRP level to an equivalent electric field strength using the following relationship:

$$E = \text{EIRP} - 20\log D + 104.8$$
 where:
 E = electric field strength in dBμV/m,
 EIRP = equivalent isotropic radiated power in dBm
 D = specified measurement distance in meters.
 So: $E = -27 - 20\log 3 + 104.8 = 68.3 \text{ (dB}\mu\text{V/m)}$.
- (3) The unwanted emissions which fall in Restricted bands shall not exceed the field strength, Above 18G test distance is 1m, so the Peak Limit = $74 + 20 \cdot \log(3/1) = 83.54 \text{ (dB}\mu\text{V/m)}$.
 The Avg Limit = $54 + 20 \cdot \log(3/1) = 63.54 \text{ (dB}\mu\text{V/m)}$.
- (4) The maximum emissions of the operation frequency bands, Above 18G test distance is 1m, so the Peak Limit = $68.3 + 20 \cdot \log(3/1) = 77.84 \text{ (dB}\mu\text{V/m)}$.

----- The following blanks -----

6.3 TEST SETUP

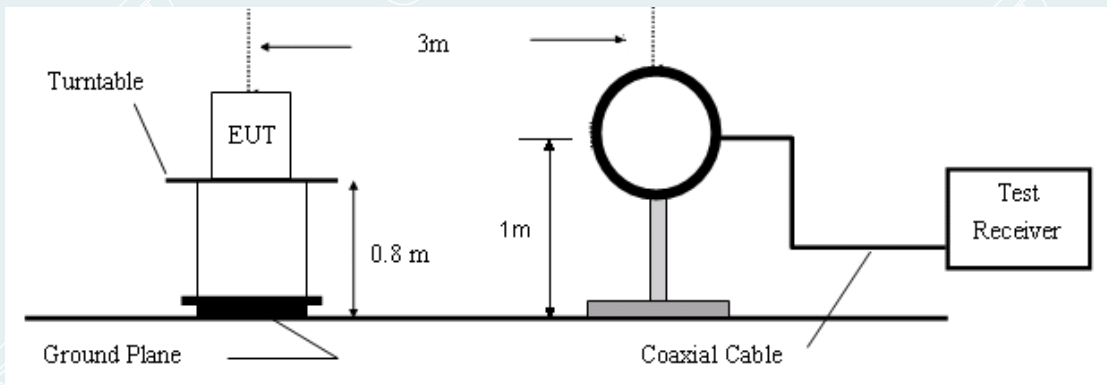


Figure 1. 9kHz to 30MHz radiated emissions test configuration

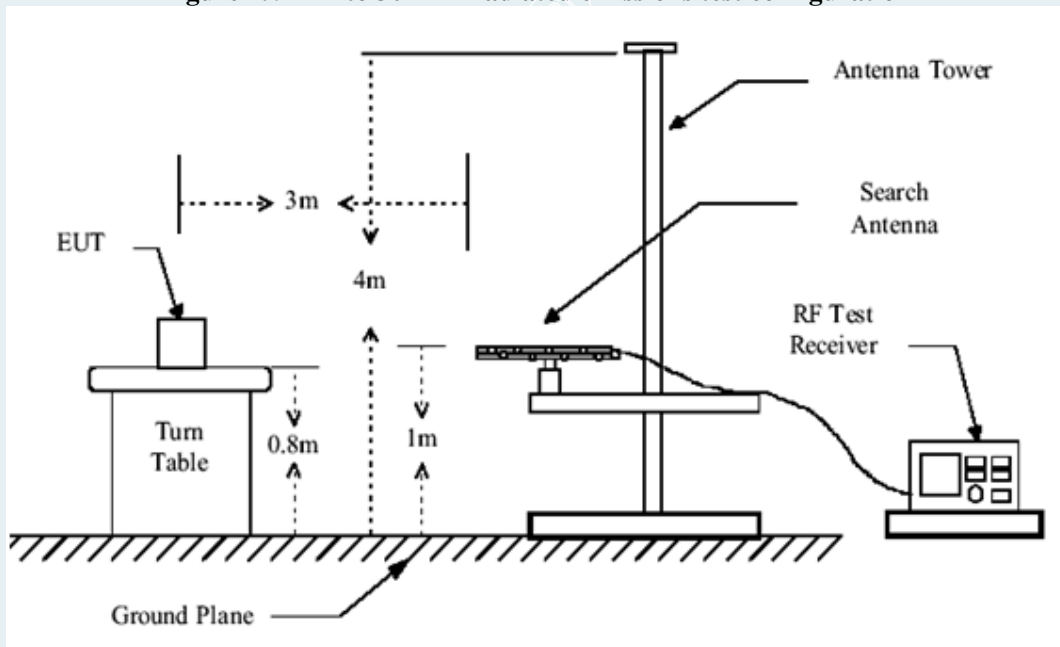


Figure 2. 30MHz to 1GHz radiated emissions test configuration

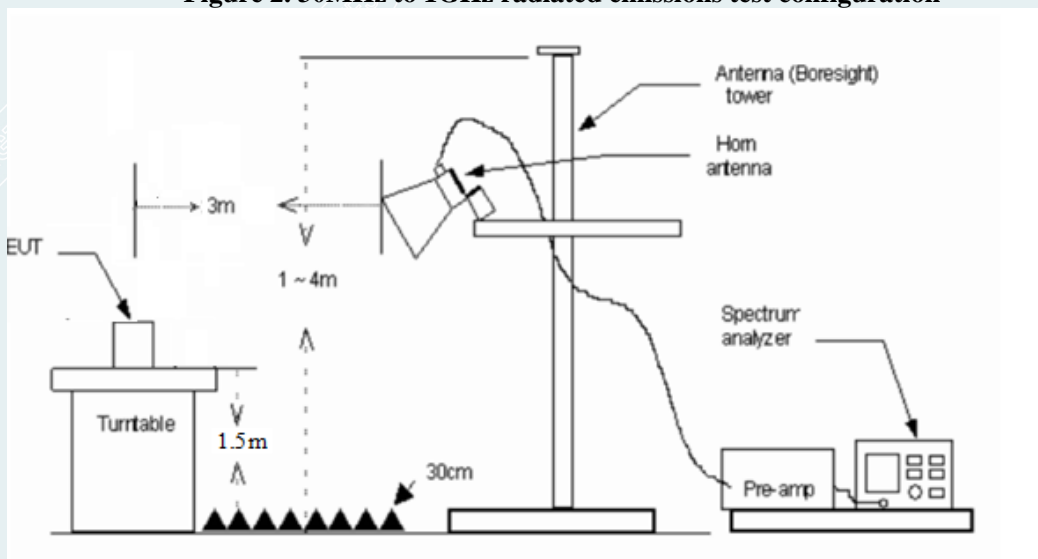


Figure 3. 1GHz-18GHz radiated emissions test configuration

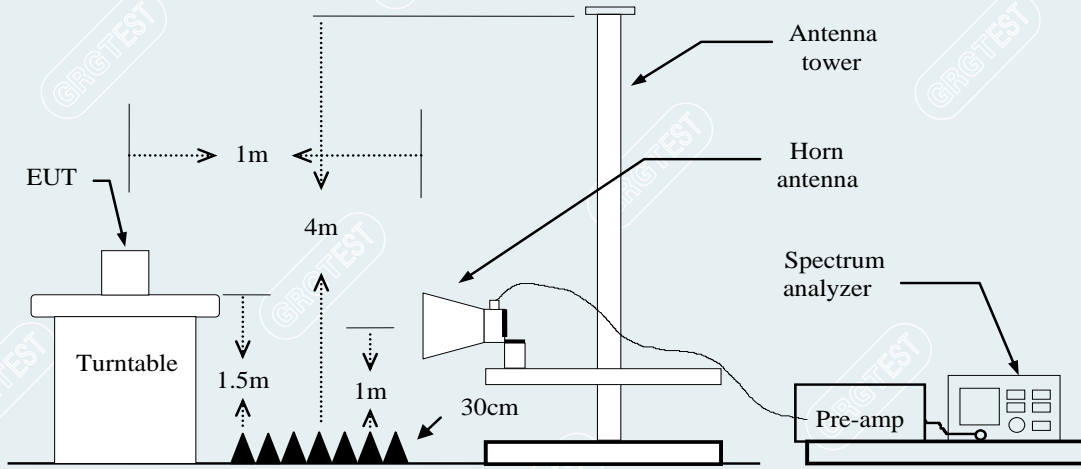


Figure 4. Above 18GHz radiated emissions test configuration

6.4 DATA SAMPLE

30MHz to 1GHz

Frequency (MHz)	Reading (dBuV)	Correct Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
XXXX	63.53	-27.15	36.38	43.50	-7.12	0	100	QP

- Frequency (MHz) = Emission frequency in MHz
- Reading (dBuV) = Uncorrected Analyzer / Receiver reading
- Result (dBuV/m) = Reading (dBuV) + Corr. Factor (dB/m)
- Limit (dBuV/m) = Limit stated in standard
- Margin (dB) = Result (dBuV/m) – Limit(dBuV/m)
- QP = Quasi-peak Reading

1GHz-18GHz

No.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	78.01	55.30	-22.71	74.00	18.70	100	50	Horizontal	Peak
xxx	xxxx	66.37	43.66	-22.71	54.00	10.34	100	50	Horizontal	AVG

Above 18GHz

No.	Freq. [MHz]	Reading [dB μ V/m]	Level [dB μ V/m]	Factor [dB]	Limit [dB μ V/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity	Remark
xxx	xxxx	54.49	42.38	-12.11	83.54	41.16	100	211	Vertical	Peak
xxx	xxxx	43.99	31.88	-12.11	63.54	31.66	100	211	Vertical	AVG

Frequency (MHz)

= Emission frequency in MHz

Reading (dB μ V/m)

= Uncorrected Analyzer / Receiver reading

Factor (dB/m)

= Antenna factor + Cable loss – Amplifier gain

Level (dB μ V/m)= Reading (dB μ V/m) + Factor (dB/m)Limit (dB μ V/m)

= Limit stated in standard

Margin (dB)

= Limit (dB μ V/m) – Level (dB μ V/m)

Polarity

= Antenna polarization

Peak

= Peak Reading

AVG

= Average Reading

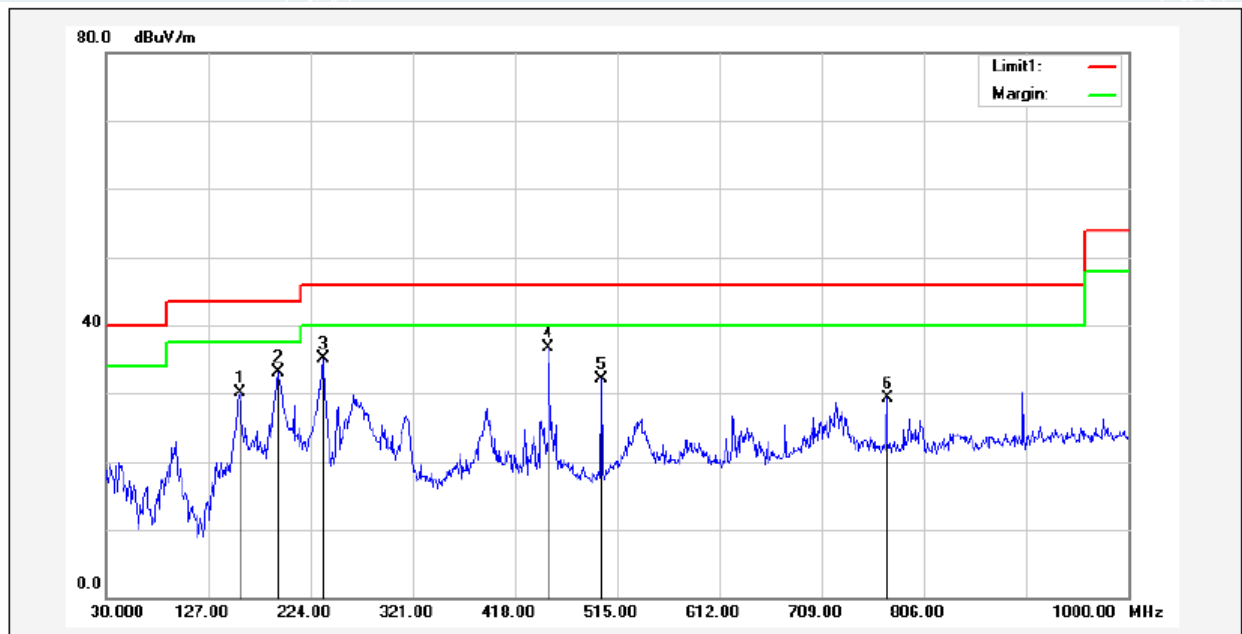
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6.5 TEST RESULTS

Below 1GHz

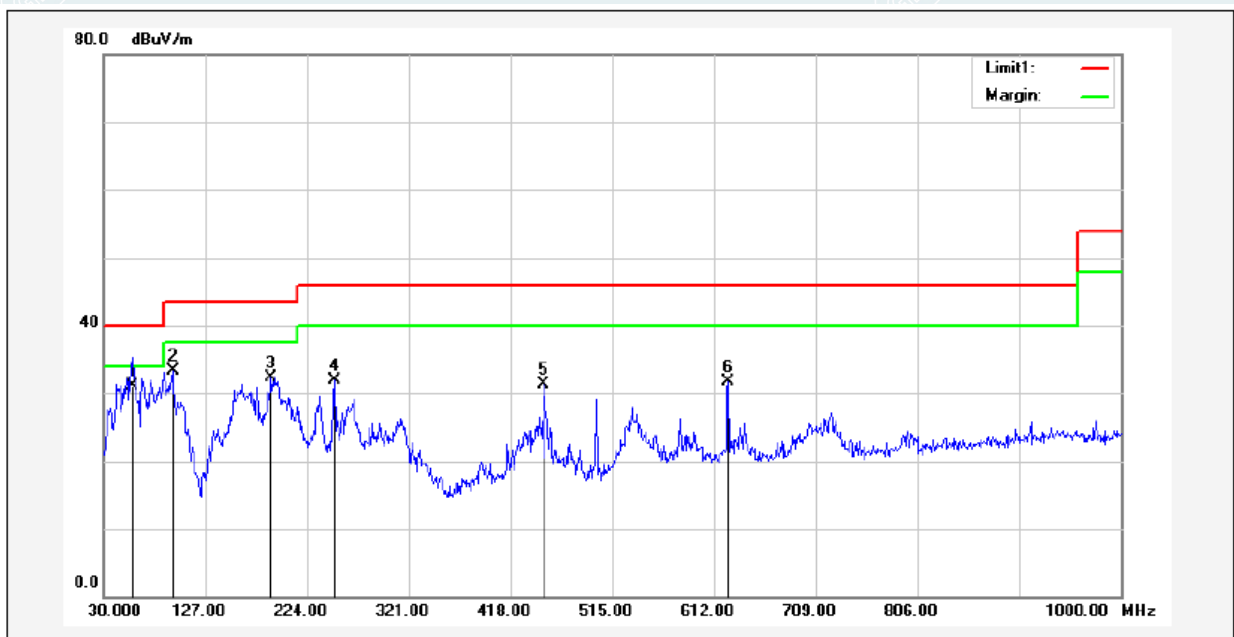
All models were pretested and only the worst modes and channels were recorded in this report. (IEEE 802.11ac VHT40 5795MHz)

EUT Name	AX1800 Dual Band WiFi6 CATV GPON Terminal	Model	NP1835GRF
Environmental Conditions	24.2°C /54% RH	Test Voltage	AC 120V/60Hz
Test Mode	MODE 1	Polarity	Horizontal
Tested By	Tang Shenghui	Tested Date	2023-05-06
Note	Adapter1		



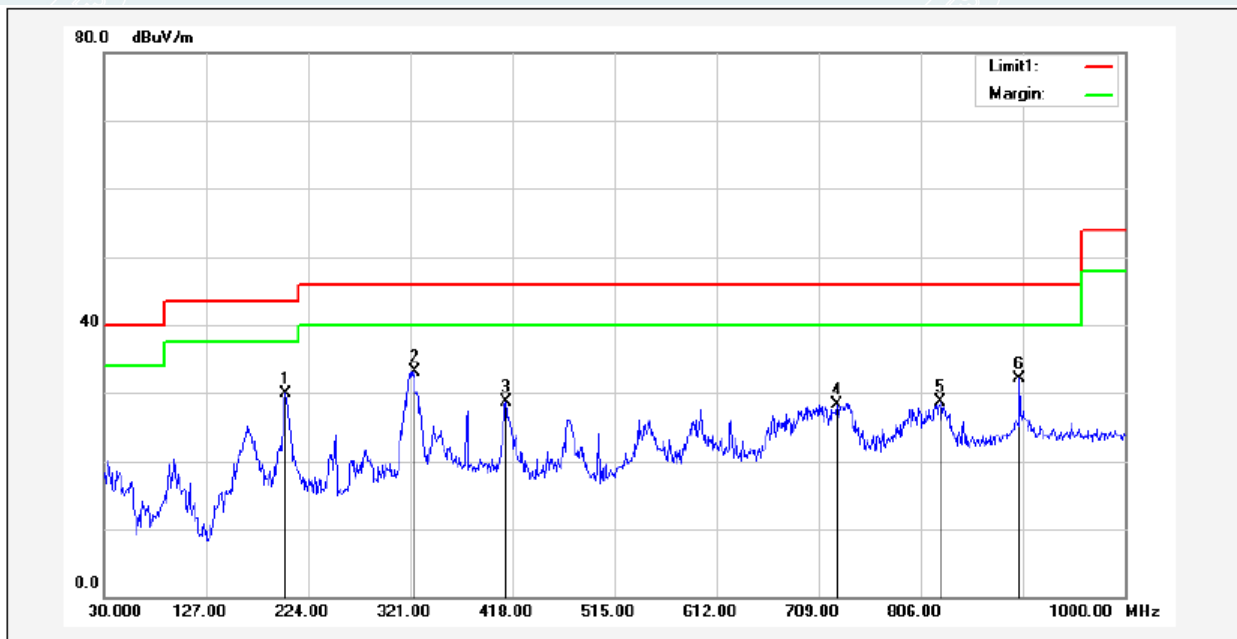
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	157.0700	57.30	-27.12	30.18	43.50	-13.32	330	200	QP
2	192.9600	59.82	-26.74	33.08	43.50	-10.42	142	200	QP
3	235.6400	60.12	-24.97	35.15	46.00	-10.85	302	100	QP
4*	450.0100	55.76	-18.99	36.77	46.00	-9.23	360	102	QP
5	500.4500	50.07	-17.92	32.15	46.00	-13.85	76	200	QP
6	771.0800	43.26	-13.89	29.37	46.00	-16.63	48	100	QP

EUT Name	AX1800 Dual Band WiFi6 CATV GPON Terminal	Model	NP1835GRF
Environmental Conditions	24.2°C/54%RH	Test Voltage	AC 120V/60Hz
Test Mode	MODE 1	Polarity	Vertical
Tested By	Tang Shenghui	Tested Date	2023-05-06
Note	Adapter1		



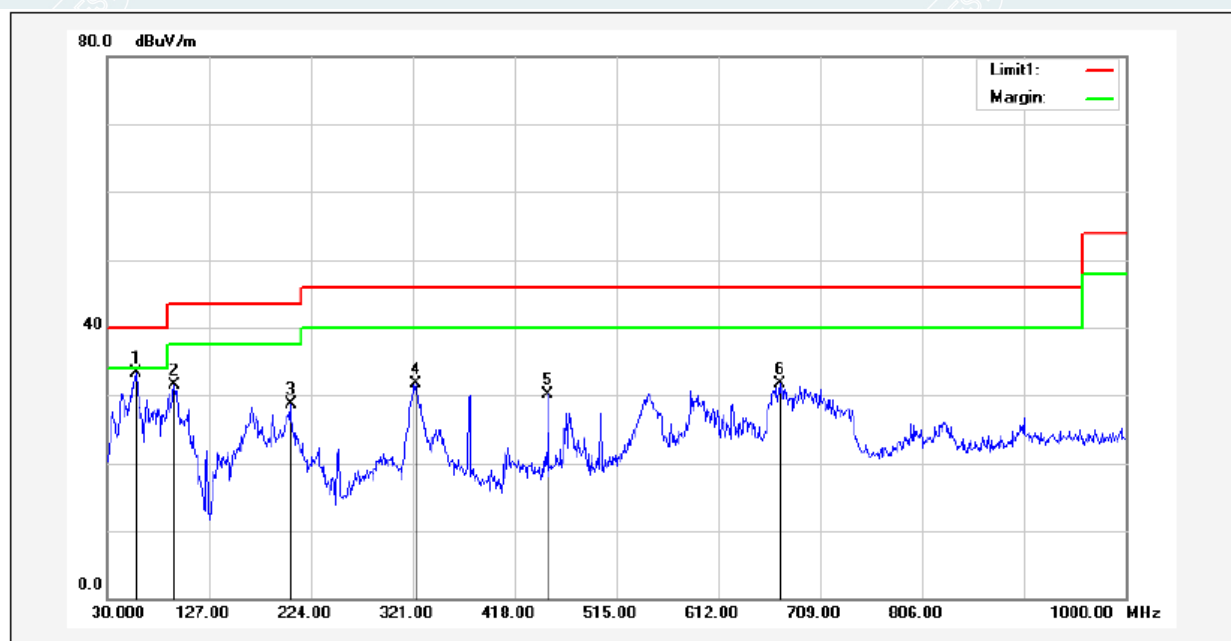
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1*	57.1600	59.36	-28.16	31.20	40.00	-8.80	234	100	QP
2	95.9600	62.30	-29.07	33.23	43.50	-10.27	117	100	QP
3	190.0500	59.29	-26.92	32.37	43.50	-11.13	360	103	QP
4	250.1900	56.26	-24.43	31.83	46.00	-14.17	101	100	QP
5	450.0100	50.28	-18.99	31.29	46.00	-14.71	219	100	QP
6	625.5800	47.39	-15.78	31.61	46.00	-14.39	360	149	QP

EUT Name	AX1800 Dual Band WiFi6 GPON Terminal	Model	NP1835G
Environmental Conditions	24.2°C/54%RH	Test Voltage	AC 120V/60Hz
Test Mode	MODE 1	Polarity	Horizontal
Tested By	Tang Shenghui	Tested Date	2023-05-06
Note	Adapter1		



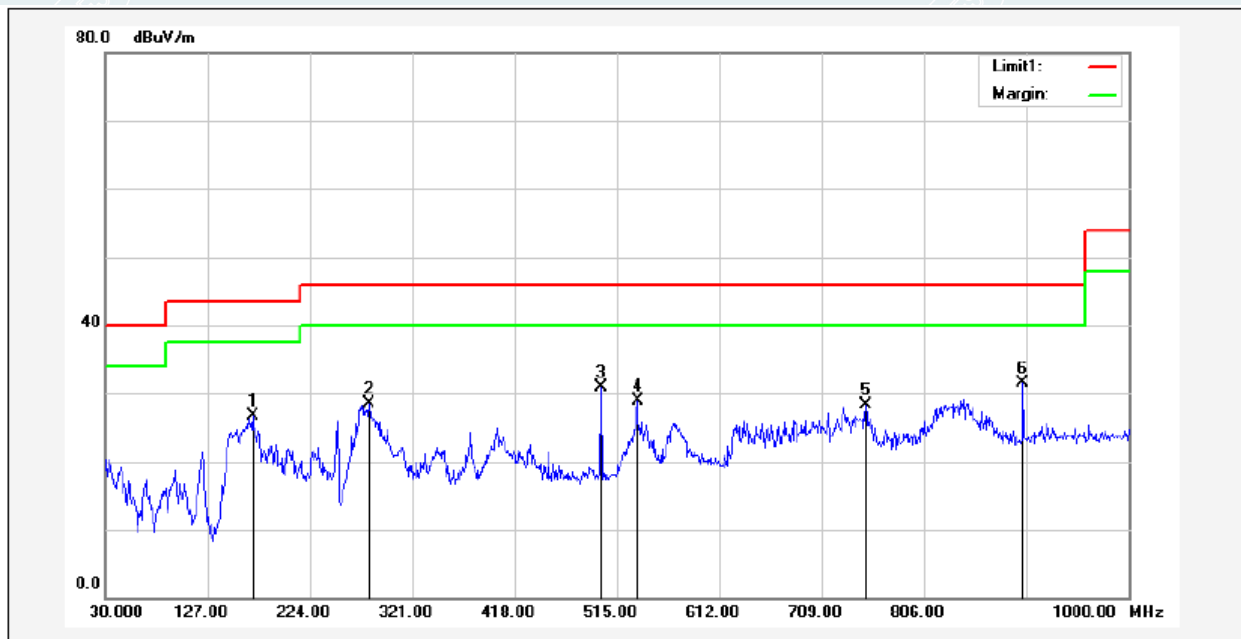
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	202.6600	56.18	-26.23	29.95	43.50	-13.55	148	200	QP
2*	324.8800	55.83	-22.72	33.11	46.00	-12.89	83	100	QP
3	412.1800	48.18	-19.51	28.67	46.00	-17.33	158	100	QP
4	726.4600	42.44	-14.21	28.23	46.00	-17.77	145	100	QP
5	824.4300	42.10	-13.41	28.69	46.00	-17.31	76	100	QP
6	900.0900	44.75	-12.73	32.02	46.00	-13.98	145	100	QP

EUT Name	AX1800 Dual Band WiFi6 GPON Terminal	Model	NP1835G
Environmental Conditions	24.2°C/54%RH	Test Voltage	AC 120V/60Hz
Test Mode	MODE 1	Polarity	Vertical
Tested By	Tang Shenghui	Tested Date	2023-05-06
Note	Adapter1		



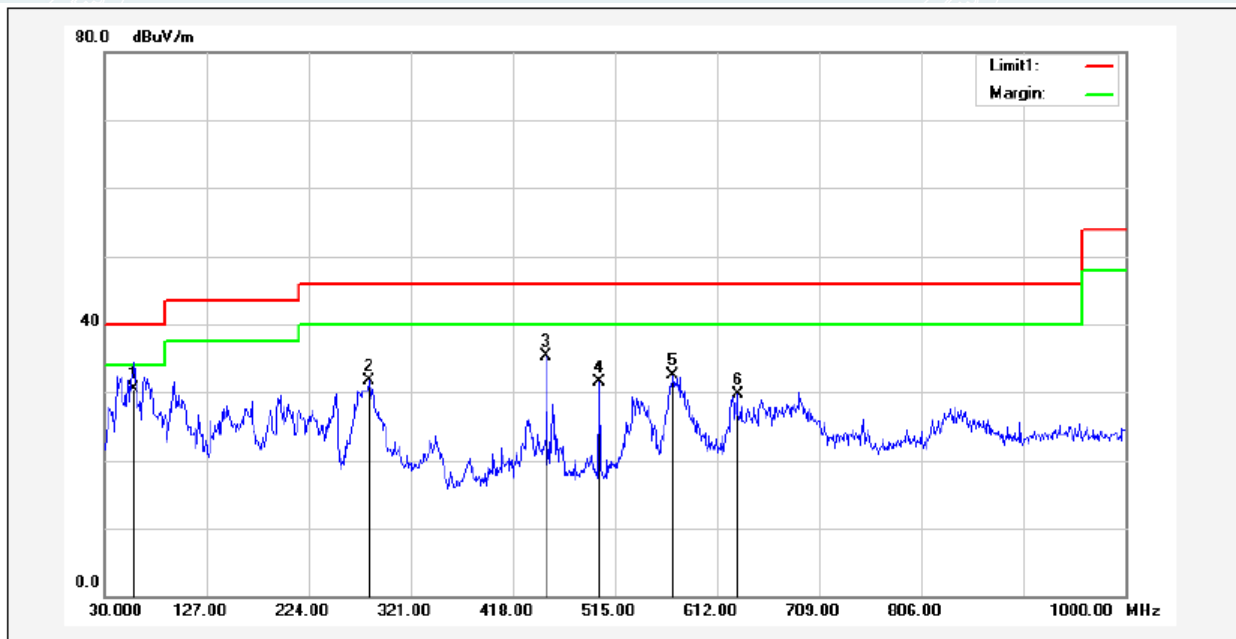
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1*	57.1600	61.42	-28.16	33.26	40.00	-6.74	1	100	QP
2	94.0200	61.06	-29.50	31.56	43.50	-11.94	141	100	QP
3	204.6000	54.94	-26.15	28.79	43.50	-14.71	79	200	QP
4	323.9100	54.49	-22.75	31.74	46.00	-14.26	157	200	QP
5	450.0100	49.19	-18.99	30.20	46.00	-15.80	74	100	QP
6	670.2000	46.73	-15.06	31.67	46.00	-14.33	348	100	QP

EUT Name	AX1800 Dual Band WiFi6 GPON Terminal	Model	NP1835GB
Environmental Conditions	24.2°C/54%RH	Test Voltage	AC 120V/60Hz
Test Mode	MODE 1	Polarity	Horizontal
Tested By	Tang Shenghui	Tested Date	2023-05-06
Note	Adapter1		



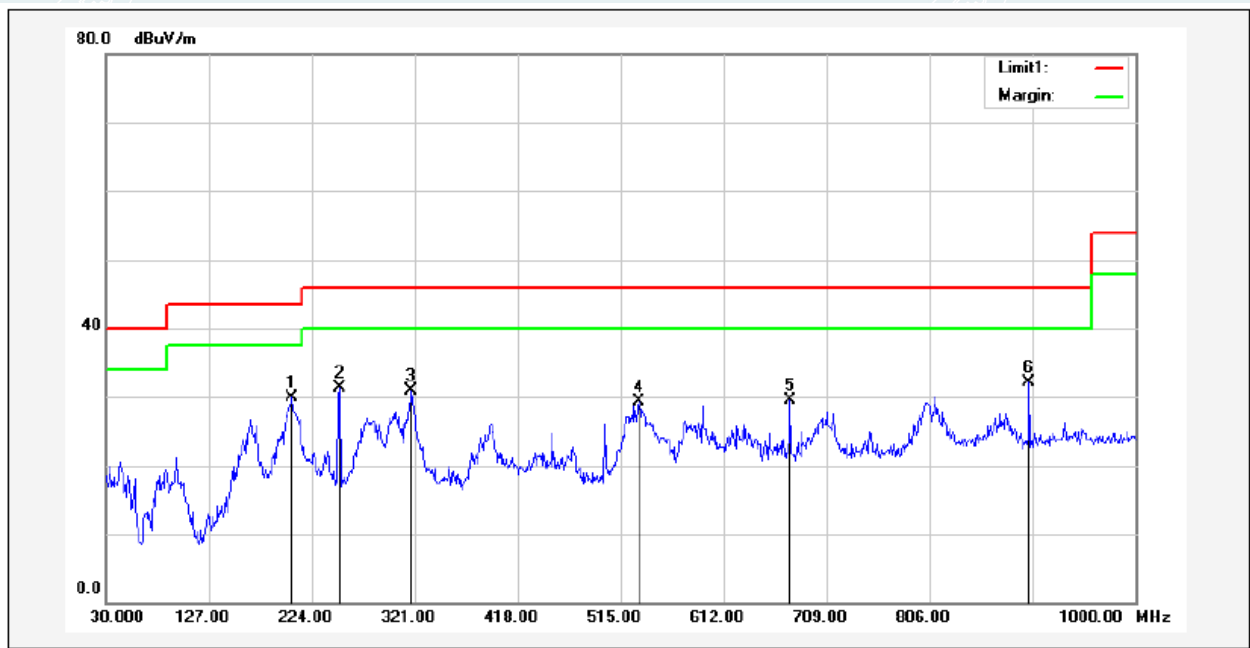
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	169.6800	54.14	-27.41	26.73	43.50	-16.77	110	200	QP
2	280.2600	52.27	-23.79	28.48	46.00	-17.52	230	100	QP
3	500.4500	48.73	-17.92	30.81	46.00	-15.19	239	200	QP
4	534.4000	45.59	-16.77	28.82	46.00	-17.18	256	200	QP
5	750.7100	42.40	-14.09	28.31	46.00	-17.69	100	100	QP
6*	900.0900	44.21	-12.73	31.48	46.00	-14.52	83	100	QP

EUT Name	AX1800 Dual Band WiFi6 GPON Terminal	Model	NP1835GB
Environmental Conditions	24.2°C/54%RH	Test Voltage	AC 120V/60Hz
Test Mode	MODE 1	Polarity	Vertical
Tested By	Tang Shenghui	Tested Date	2023-05-06
Note	Adapter1		



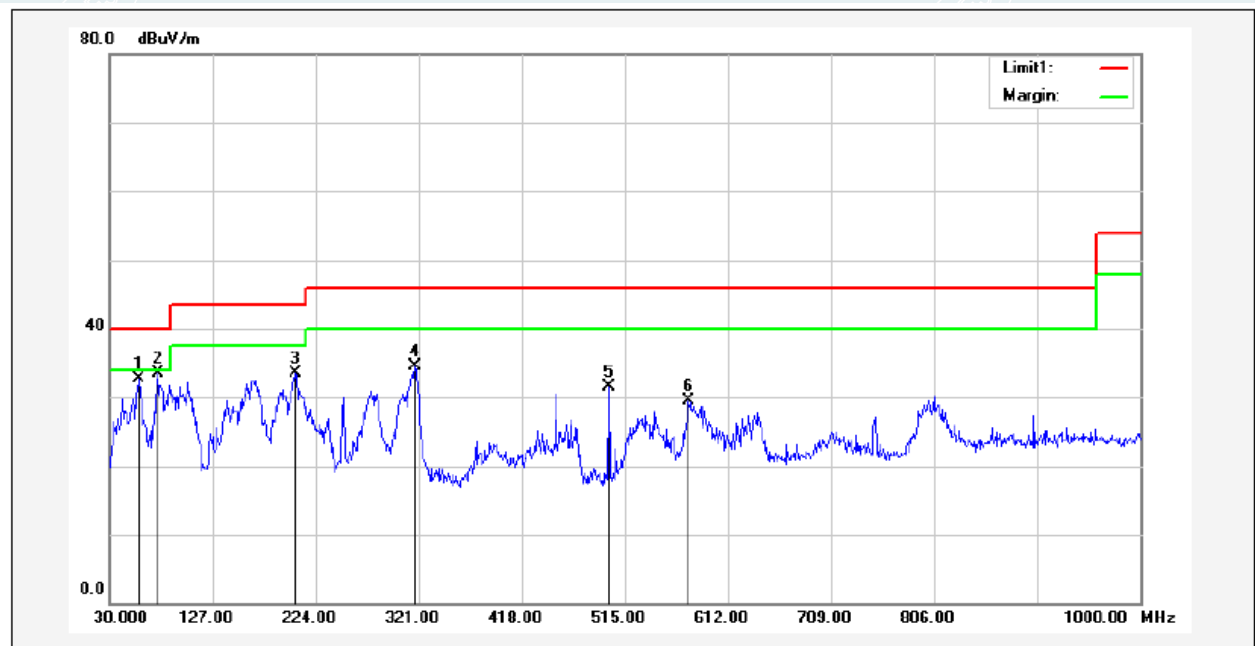
No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1*	58.1300	59.01	-28.41	30.60	40.00	-9.40	11	100	QP
2	281.2300	55.42	-23.77	31.65	46.00	-14.35	261	200	QP
3	450.0100	54.26	-18.99	35.27	46.00	-10.73	328	200	QP
4	500.4500	49.50	-17.92	31.58	46.00	-14.42	358	200	QP
5	570.2900	48.57	-16.15	32.42	46.00	-13.58	101	100	QP
6	631.4000	45.51	-15.72	29.79	46.00	-16.21	178	100	QP

EUT Name	AX1800 Dual Band WiFi6 GPON Terminal	Model	NP1835GB
Environmental Conditions	24.2°C/54%RH	Test Voltage	AC 120V/60Hz
Test Mode	MODE 1	Polarity	Horizontal
Tested By	Tang Shenghui	Tested Date	2023-05-06
Note	Adapter2		



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1*	205.5700	56.01	-26.10	29.91	43.50	-13.59	202	200	QP
2	250.1900	55.65	-24.43	31.22	46.00	-14.78	133	100	QP
3	318.0900	53.88	-22.89	30.99	46.00	-15.01	108	100	QP
4	532.4600	46.15	-16.83	29.32	46.00	-16.68	192	100	QP
5	675.0500	44.48	-14.94	29.54	46.00	-16.46	135	100	QP
6	900.0900	44.84	-12.73	32.11	46.00	-13.89	130	100	QP

EUT Name	AX1800 Dual Band WiFi6 GPON Terminal	Model	NP1835GB
Environmental Conditions	24.2°C/54%RH	Test Voltage	AC 120V/60Hz
Test Mode	MODE 1	Polarity	Vertical
Tested By	Tang Shenghui	Tested Date	2023-05-06
Note	Adapter2		



No.	Frequency (MHz)	Reading (dBuV)	Correction factor(dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree (deg.)	Height (cm)	Detector type
1	58.1300	61.04	-28.41	32.63	40.00	-7.37	360	102	QP
2*	75.5900	64.50	-31.02	33.48	40.00	-6.52	195	100	QP
3	205.5700	59.58	-26.10	33.48	43.50	-10.02	188	100	QP
4	318.0900	57.45	-22.89	34.56	46.00	-11.44	166	200	QP
5	500.4500	49.46	-17.92	31.54	46.00	-14.46	239	100	QP
6	575.1400	45.68	-16.12	29.56	46.00	-16.44	250	100	QP

Remark:

- 1 No emission found between lowest internal used/generated frequency to 30MHz.
- 2 Radiated emissions measured in frequency range from 9kHz to 1GHz were made with an instrument using Quasi-peak detector mode.
- 3 Data of measurement within this frequency range shown “---” in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4 The IF bandwidth of Receiver between 30MHz to 1GHz was 120 kHz.

1GHz-18GHz

All models were pretested and just record the worst case of 20MHz/40MHz/80MHz bandwidth.

Mode: Mode 1/ IEEE 802.11n HT20
 Environment: 22.4°C/59%RH/101.0kPa
 Test Engineer:Zhang Qiang

Frequency:5180MHz
 Power supply:AC 120V/60HZ
 Test Date:2023-04-28

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2700.2125	64.60	46.66	-17.94	74.00	27.34	200	259	Horizontal
2	3150.2688	60.05	45.05	-15.00	68.30	23.25	200	269	Horizontal
3	8002.7503	50.45	50.38	-0.07	68.30	17.92	200	140	Horizontal
4	9295.912	49.56	51.91	2.35	68.30	16.39	100	344	Horizontal
5	10359.5449	49.96	54.81	4.85	68.30	13.49	100	147	Horizontal
6	17669.9587	44.85	53.54	8.69	68.30	14.76	200	151	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2987.1234	62.12	46.66	-15.46	68.30	21.64	200	282	Vertical
2	5107.3884	70.74	64.04	-6.70	74.00	9.96	200	340	Vertical
3	8460.3075	50.41	50.92	0.51	74.00	23.08	200	277	Vertical
4	9762.4703	48.47	52.79	4.32	68.30	15.51	100	164	Vertical
5	10358.0448	50.56	55.79	5.23	68.30	12.51	200	13	Vertical
6	17825.9782	44.28	56.16	11.88	74.00	17.84	200	71	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5107.3884	-6.70	48.26	41.56	54.00	12.44	200	340	Vertical
2	8460.3075	0.51	39.51	40.02	54.00	13.98	200	277	Vertical
3	17825.9782	11.88	33.49	45.37	54.00	8.63	200	71	Vertical

Mode: Mode 1/ IEEE 802.11n HT20
 Environment: 22.4°C/59%RH/101.0kPa
 Test Engineer:Zhang Qiang

Frequency:5200MHz
 Power supply:AC 120V/60HZ
 Test Date:2023-04-28

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2699.5874	64.19	46.25	-17.94	74.00	27.75	200	277	Horizontal
2	5699.9625	54.89	49.34	-5.55	68.30	18.96	200	347	Horizontal
3	10401.5502	50.90	55.78	4.88	68.30	12.52	100	128	Horizontal
4	10974.6218	48.02	52.38	4.36	74.00	21.62	100	254	Horizontal
5	14918.6148	44.17	51.38	7.21	68.30	16.92	200	82	Horizontal
6	17881.4852	44.69	54.35	9.66	74.00	19.65	100	39	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10974.6218	4.36	38.19	42.55	54.00	11.45	100	254	Horizontal
2	17881.4852	9.66	32.69	42.35	54.00	11.65	100	39	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2986.4983	61.97	46.50	-15.47	68.30	21.80	100	284	Vertical
2	5109.8887	61.76	55.06	-6.70	74.00	18.94	200	104	Vertical
3	9784.9731	48.25	52.72	4.47	68.30	15.58	200	246	Vertical
4	10401.5502	51.40	57.07	5.67	68.30	11.23	200	343	Vertical
5	15041.6302	44.49	51.44	6.95	68.30	16.86	200	197	Vertical
6	17885.9857	44.49	56.08	11.59	74.00	17.92	100	226	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5109.8887	-6.70	50.34	43.64	54.00	10.36	200	104	Vertical
2	17885.9857	11.59	32.92	44.51	54.00	9.49	100	226	Vertical

Mode: Mode 1/ IEEE 802.11n HT20
 Environment: 22.4°C/59%RH/101.0kPa
 Test Engineer:Zhang Qiang

Frequency:5240MHz
 Power supply:AC 120V/60HZ
 Test Date:2023-04-28

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2699.5874	64.73	46.79	-17.94	74.00	27.21	200	278	Horizontal
2	3830.3538	57.16	43.87	-13.29	74.00	30.13	200	360	Horizontal
3	9295.912	50.22	52.57	2.35	68.30	15.73	200	3	Horizontal
4	10484.0605	51.72	56.78	5.06	68.30	11.52	200	198	Horizontal
5	14549.5687	43.49	51.15	7.66	68.30	17.15	200	12	Horizontal
6	17825.9782	45.21	55.24	10.03	74.00	18.76	100	345	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	17825.9782	10.03	34.61	44.64	54.00	9.36	100	345	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1124.3905	63.00	40.88	-22.12	74.00	33.12	200	221	Vertical
2	2997.1246	61.24	46.04	-15.20	68.30	22.26	200	279	Vertical
3	5083.6355	60.08	53.03	-7.05	74.00	20.97	200	346	Vertical
4	9762.4703	49.45	53.77	4.32	68.30	14.53	100	334	Vertical
5	10479.5599	52.78	57.81	5.03	68.30	10.49	100	10	Vertical
6	17831.979	45.07	56.94	11.87	74.00	17.06	100	343	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5083.6355	-7.05	50.27	43.22	54.00	10.78	200	346	Vertical
2	17831.979	11.87	34.69	46.56	54.00	7.44	100	343	Vertical

Mode: Mode 1/ IEEE 802.11n HT20
 Environment: 22.4°C/59%RH/101.0kPa
 Test Engineer:Zhang Qiang

Frequency:5260MHz
 Power supply:AC 120V/60HZ
 Test Date:2023-04-28

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2700.2125	64.85	46.91	-17.94	74.00	27.09	200	260	Horizontal
2	9751.969	48.71	52.47	3.76	68.30	15.83	200	48	Horizontal
3	10512.5641	54.21	59.34	5.13	68.30	8.96	200	206	Horizontal
4	10937.1171	48.36	53.36	5.00	74.00	20.64	100	44	Horizontal
5	16705.3382	45.23	52.67	7.44	68.30	15.63	200	118	Horizontal
6	17660.9576	46.27	55.01	8.74	68.30	13.29	100	130	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10937.1171	5.00	38.27	43.27	54.00	10.73	100	44	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1350.0438	60.31	39.33	-20.98	74.00	34.67	200	141	Vertical
2	3150.2688	62.87	47.07	-15.80	68.30	21.23	100	280	Vertical
3	9313.9142	49.51	51.68	2.17	74.00	22.32	200	344	Vertical
4	10517.0646	53.75	58.56	4.81	68.30	9.74	100	343	Vertical
5	15053.6317	44.45	51.50	7.05	68.30	16.80	200	129	Vertical
6	17894.9869	45.56	57.08	11.52	74.00	16.92	200	247	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9313.9142	2.17	38.27	40.44	54.00	13.56	200	344	Vertical
2	17828.9786	11.88	32.61	44.49	54.00	9.51	200	275	Vertical

Mode: Mode 1/ IEEE 802.11n HT20
 Environment: 22.4°C/59%RH/101.0kPa
 Test Engineer:Zhang Qiang

Frequency:5280MHz
 Power supply:AC 120V/60HZ
 Test Date:2023-04-28

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2811.4764	62.85	46.62	-16.23	74.00	27.38	100	276	Horizontal
2	9856.9821	48.30	52.92	4.62	68.30	15.38	200	54	Horizontal
3	10569.5712	52.61	57.07	4.46	68.30	11.23	100	202	Horizontal
4	11363.1704	47.67	51.14	3.47	74.00	22.86	100	36	Horizontal
5	14545.0681	44.37	52.00	7.63	68.30	16.30	200	25	Horizontal
6	17675.9595	45.64	54.31	8.67	68.30	13.99	200	290	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	11363.1704	3.47	36.48	39.95	54.00	14.05	100	36	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2922.7403	62.51	46.23	-16.28	68.30	22.07	100	247	Vertical
2	7180.6476	53.38	51.14	-2.24	68.30	17.16	100	65	Vertical
3	9183.3979	48.63	51.39	2.76	74.00	22.61	200	211	Vertical
4	10559.0699	51.50	55.36	3.86	68.30	12.94	100	16	Vertical
5	14899.1124	43.84	51.73	7.89	68.30	16.57	200	86	Vertical
6	17800.4751	44.26	56.18	11.92	74.00	17.82	200	330	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	9183.3979	2.76	37.26	40.02	54.00	13.98	200	211	Vertical
2	17800.4751	11.92	32.62	44.54	54.00	9.46	200	330	Vertical

Mode: Mode 1/ IEEE 802.11n HT20
 Environment: 22.4°C/59%RH/101.0kPa
 Test Engineer:Zhang Qiang

Frequency:5320MHz
 Power supply:AC 120V/60HZ
 Test Date:2023-04-28

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1069.3837	63.49	39.12	-24.37	74.00	34.88	100	240	Horizontal
2	2699.5874	64.64	46.70	-17.94	74.00	27.30	200	280	Horizontal
3	9856.9821	48.04	52.66	4.62	68.30	15.64	100	283	Horizontal
4	10640.08	51.36	56.19	4.83	74.00	17.81	100	206	Horizontal
5	16718.8399	45.37	52.66	7.29	68.30	15.64	100	59	Horizontal
6	17543.943	45.54	54.29	8.75	68.30	14.01	100	265	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10634.8496	4.83	37.81	42.64	54.00	11.36	200	193.4	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1349.4187	63.40	42.40	-21.00	74.00	31.60	200	360	Vertical
2	3149.6437	62.14	46.34	-15.80	68.30	21.96	100	298	Vertical
3	5395.5494	64.73	57.69	-7.04	74.00	16.31	200	310	Vertical
4	9793.9742	48.73	53.26	4.53	68.30	15.04	200	272	Vertical
5	14228.5286	44.25	51.80	7.55	68.30	16.50	200	304	Vertical
6	17677.4597	45.85	55.49	9.64	68.30	12.81	200	137	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5395.5494	-7.04	52.37	45.33	54.00	8.67	200	310	Vertical

Mode: Mode 1/ IEEE 802.11n HT20
 Environment: 22.4°C/59%RH/101.0kPa
 Test Engineer:Zhang Qiang

Frequency:5500MHz
 Power supply:AC 120V/60HZ
 Test Date:2023-04-28

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5435.5544	62.69	53.14	-9.55	74.00	20.86	200	196	Horizontal
2	6498.0623	55.97	49.77	-6.20	68.30	18.53	100	212	Horizontal
3	7992.249	50.10	49.87	-0.23	68.30	18.43	100	281	Horizontal
4	10601.0751	48.67	53.71	5.04	74.00	20.29	200	27	Horizontal
5	11001.6252	54.31	57.96	3.65	74.00	16.04	100	212	Horizontal
6	17833.4792	44.47	54.47	10.00	74.00	19.53	200	320	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5435.5544	-9.55	50.37	40.82	54.00	13.18	200	196	Horizontal
2	10601.0751	5.04	37.27	42.31	54.00	11.69	200	27	Horizontal
3	10999.3971	3.65	38.92	42.57	54.00	11.43	121	238.9	Horizontal
4	17833.4792	10.00	30.26	40.26	54.00	13.74	200	320	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2996.4996	62.17	45.31	-16.86	68.30	22.99	200	297	Vertical
2	5436.8046	65.89	56.03	-9.86	74.00	17.97	200	326	Vertical
3	9757.9697	48.51	52.79	4.28	68.30	15.51	100	291	Vertical
4	10997.1246	54.84	59.43	4.59	74.00	14.57	200	15	Vertical
5	14333.5417	43.97	51.42	7.45	68.30	16.88	100	213	Vertical
6	17675.9595	45.82	55.46	9.64	68.30	12.84	100	193	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5436.8046	-9.86	54.92	45.06	54.00	8.94	200	326	Vertical
2	11003.009	4.59	39.99	44.58	54.00	9.42	173	343.1	Vertical

Mode: Mode 1/ IEEE 802.11n HT20
 Environment: 22.4°C/59%RH/101.0kPa
 Test Engineer:Zhang Qiang

Frequency:5580MHz
 Power supply:AC 120V/60HZ
 Test Date:2023-04-28

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2700.2125	66.24	46.51	-19.73	74.00	27.49	200	257	Horizontal
2	9813.4767	48.32	52.78	4.46	68.30	15.52	100	15	Horizontal
3	10478.0598	48.10	53.00	4.90	68.30	15.30	200	135	Horizontal
4	11159.1449	51.35	54.43	3.08	74.00	19.57	100	213	Horizontal
5	14558.5698	44.20	51.71	7.51	68.30	16.59	200	360	Horizontal
6	17876.9846	44.90	54.60	9.70	74.00	19.40	100	183	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	11203.0692	3.08	33.99	37.07	54.00	16.93	126	240.5	Horizontal
2	17876.9846	9.70	32.14	41.84	54.00	12.16	100	183	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2700.2125	65.26	46.63	-18.63	74.00	27.37	200	258	Vertical
2	7174.6468	52.51	50.24	-2.27	68.30	18.06	100	14	Vertical
3	10413.5517	47.87	53.26	5.39	68.30	15.04	200	171	Vertical
4	11162.1453	52.52	55.30	2.78	74.00	18.70	100	213	Vertical
5	14276.5346	43.56	51.08	7.52	68.30	17.22	200	357	Vertical
6	17875.4844	45.53	57.19	11.66	74.00	16.81	200	288	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	11159.5646	2.78	35.35	38.13	54.00	15.87	100	242.5	Vertical
2	17875.4844	11.66	32.68	44.34	54.00	9.66	200	288	Vertical

Mode: Mode 1/ IEEE 802.11n HT20
 Environment: 22.4°C/59%RH/101.0kPa
 Test Engineer:Zhang Qiang

Frequency:5700MHz
 Power supply:AC 120V/60HZ
 Test Date:2023-04-28

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2699.5874	66.55	46.82	-19.73	74.00	27.18	200	256	Horizontal
2	3150.2688	60.50	44.03	-16.47	68.30	24.27	200	266	Horizontal
3	8050.7563	50.21	49.96	-0.25	74.00	24.04	200	272	Horizontal
4	9307.9135	49.06	51.45	2.39	74.00	22.55	100	232	Horizontal
5	11399.1749	49.49	52.21	2.72	74.00	21.79	200	106	Horizontal
6	17102.8879	47.42	54.08	6.66	68.30	14.22	200	155	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	8050.7563	-0.25	41.68	41.43	54.00	12.57	200	272	Horizontal
2	9307.9135	2.39	40.37	42.76	54.00	11.24	100	232	Horizontal
3	11399.1749	2.72	39.86	42.58	54.00	11.42	200	106	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBµV/m]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	2986.4983	62.50	45.43	-17.07	68.30	22.87	100	276	Vertical
2	9253.9067	50.12	51.96	1.84	68.30	16.34	100	172	Vertical
3	9819.4774	48.49	53.00	4.51	68.30	15.30	200	252	Vertical
4	10931.1164	48.36	53.13	4.77	74.00	20.87	200	213	Vertical
5	13901.4877	45.40	52.24	6.84	68.30	16.06	100	360	Vertical
6	17881.4852	45.20	56.82	11.62	74.00	17.18	200	193	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBµV/m]	AV Value [dBµV/m]	AV Limit [dBµV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	10931.1164	4.77	35.29	40.06	54.00	13.94	200	213	Vertical
2	17836.4796	11.86	32.68	44.54	54.00	9.46	200	57	Vertical

Mode: Mode 1/ IEEE 802.11n HT20
 Environment: 23.2°C/64%RH/101.0kPa
 Test Engineer:Zhang Qiang

Frequency:5720MHz
 Power supply:AC 120V/60HZ
 Test Date:2023-05-06

1-6.5GHz

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1301.8502	47.21	54.15	6.94	74.00	19.85	100	234	Horizontal
2	1589.9487	47.57	54.24	6.67	74.00	19.76	200	248	Horizontal
3	2211.5264	47.08	57.27	10.19	74.00	16.73	100	46	Horizontal
4	2837.2297	48.75	60.29	11.54	74.00	13.71	100	282	Horizontal
5	3509.0011	47.76	60.84	13.08	68.30	7.46	200	334	Horizontal
6	4839.4799	48.41	65.70	17.29	74.00	8.30	200	68	Horizontal

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1237.2456	7.05	35.27	42.30	54.00	11.70	200	100	Horizontal
2	1589.3567	6.67	38.21	44.88	54.00	9.12	200	248	Horizontal
3	2211.3468	10.19	35.67	45.86	54.00	8.14	100	46	Horizontal
4	2837.1468	11.54	34.52	46.06	54.00	7.94	100	282	Horizontal
5	4839.4799	17.29	31.62	48.91	54.00	5.09	200	68	Horizontal

Suspected Data List									
NO.	Freq. [MHz]	Reading [dBμV/m]	Level [dBμV/m]	Factor [dB]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1099.0124	47.24	55.18	7.94	74.00	18.82	200	35	Vertical
2	1393.9867	46.50	54.19	7.69	74.00	19.81	200	201	Vertical
3	1720.5901	47.46	54.67	7.21	74.00	19.33	100	208	Vertical
4	2745.0931	47.95	58.74	10.79	74.00	15.26	200	349	Vertical
5	4525.2532	48.88	65.17	16.29	74.00	8.83	200	153	Vertical
6	4860.1075	47.80	65.18	17.38	74.00	8.82	100	41	Vertical

AV Final Data List									
NO.	Freq. [MHz]	Factor [dB]	AV Reading [dBμV/m]	AV Value [dBμV/m]	AV Limit [dBμV/m]	AV Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1099.5473	7.95	34.68	42.62	54.00	11.38	100	32	Vertical
2	1393.1574	7.69	32.61	40.30	54.00	13.70	200	16	Vertical
3	1720.1375	7.21	35.15	42.36	54.00	11.64	100	208	Vertical
4	2745.7326	10.79	35.24	46.03	54.00	7.97	200	16	Vertical
5	4525.2574	16.30	32.64	48.93	54.00	5.07	200	271	Vertical
6	4860.1075	17.38	32.18	49.56	54.00	4.44	100	41	Vertical