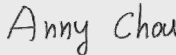




Test report No: 2650551R-0E3012110014-A

FCC TEST REPORT

Product Name	Peplink Pepwave Wireless Product
Trademark	
Model and /or type reference	MAX BR2 Pro DX MAX-BR2-PRO-DX-5GK-T-PRM MAX Orbit 4 MAX-ORB-4-T-PRM
FCC ID	2BVXV-P1AX203
Applicant's name / address	PSG TECHNOLOGIES (S) PTE. LIMITED 68 CIRCULAR ROAD, #02-01, SINGAPORE 049422
Manufacturer's name / address	PSG TECHNOLOGIES (S) PTE. LIMITED 68 CIRCULAR ROAD, #02-01, SINGAPORE 049422
Test method requested, standard	FCC CFR Title 47 Part 15 Subpart B:2025, Class A ICES-003 Issue 7:2020, Class A
Verdict Summary	IN COMPLIANCE
Documented By (Senior Adm. Specialist / Anny Chou)	
Approved By (Director / Vincent Lin)	
Date of Report	2026/05/21
Date of Issue	2026/10/08
Report No.	2650551R-0E3012110014-A
Report Version	V1.0

INDEX

Description	Page
1. General Information	5
1.1. EUT Description	5
1.2. Mode of Operation	6
1.3. Configuration & Details of Tested System	8
1.4. EUT Exercise Software	10
2. Technical Test.....	11
2.1. Summary of Test Result	11
2.2. List of Test Equipment	12
2.3. Measurement Uncertainty	13
2.4. Test Environment	14
3. Conducted Emission	15
3.1. Test Specification	15
3.2. Test Setup	15
3.3. Limit.....	15
3.4. Test Procedure	16
3.5. Test Result	17
3.6. Test Photograph	19
4. Radiated Emission	20
4.1. Test Specification	20
4.2. Test Setup	20
4.3. Limit.....	21
4.4. Test Procedure	23
4.5. Test Result	25
4.6. Test Photograph	33

Product Photos: Please refer to the file: 2650551R-Product Photos

Competences and Guarantees

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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General conditions

1. The test results relate only to the samples tested.
2. The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.
3. This report must not be used to claim product endorsement by TAF or any agency of the government.
4. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.
5. Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Revision History

Report No.	Version	Description	Issued Date
2650551R-0E3012110014-A	V1.0	Initial issue of report.	2026-10-08

1. General Information

1.1. EUT Description

Product Name	Peplink Pepwave Wireless Product
Trademark	
Model No.	MAX BR2 Pro DX MAX-BR2-PRO-DX-5GK-T-PRM MAX Orbit 4 MAX-ORB-4-T-PRM
Test Model No.	MAX BR2 Pro DX MAX Orbit 4
EUT Max Frequency	5850 MHz
EUT Rated Voltage	DC 10-30V 802.3at PoE
EUT Test Voltage	DC 30V AC 120V/60Hz to DC 12V (AC adapter)

No	Accessories	Brand Name	Model Name	Power Rate
For MAX BR2 Pro DX				
1	Cellular Antenna		04-410151-00	--
2	WiFi Antenna	WIESON	ARY121-1976-001-00	--
3	GPS Antenna	Master Wave	98335KSAF000	--
4	M12 A Coding 4Pin female Assembly Plastic connector PG7	Indus-c	12ZU04-PG7	--
5	GPS Antenna	Cirocomm	GNA-930C	--
For MAX Orbit 4				
1	AC Adapter	LEI	MU36B3120300-A1	INPUT: 100-240V ~ 50-60Hz 1.0A OUTPUT: 12.0V --- 3.0A 36.0W
2	WiFi Antenna	WIESON	ARY121-1976-001-00	--
3	GPS Antenna	Master Wave	98335KSAF000	--
4	GPS Antenna	Cirocomm	GNA-930C	--

Note: Different on power port and ethernet port are M12 connector interface for MAX BR2 Pro DX, MAX Orbit 4 has USB and RS-232 serial port, remove WWAN modules, WWAN antenna ports, SIM slots.

1.2. Mode of Operation

DEKRA has verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

Pre-Test Mode (Conducted Emission)
Mode 1: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n78 Link + SIM Slot A1), PoE In
Mode 2: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n78 Link + SIM Slot A2), PoE In
Mode 3: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n78 Link + SIM Slot B1), PoE In
Mode 4: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n78 Link + SIM Slot B2), PoE In
Mode 5: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN LTE Band 41 Link + SIM Slot A1), PoE In
Mode 6: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN WCDMA Band 2 Link + SIM Slot A1), PoE In
Mode 7: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN LTE Band 41 Idle + SIM Slot A1), PoE In
Mode 8: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN e-SIM on), PoE In
Mode 9: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(GNA-930C) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN LTE Band 41 Link + SIM Slot A1), PoE In
Mode 10: MAX Orbit 4, Normal Operation(LAN(PoE) 1: 2.5Gbps + LAN 2: 2.5Gbps + WAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + Serial(RS232) + USB), PoE In
Mode 11: MAX Orbit 4, Normal Operation(LAN 1~2: 2.5Gbps + WAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + Serial(RS232) + USB), Molex Power, AC Adapter(MU36B3120300-A1)
Mode 12: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN LTE Band 41 Link + SIM Slot A1), AC Adapter(MU36B3120300-A1)
Pre-Test Mode (Radiated Emission)
Mode 1: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n78 Link + SIM Slot A1), PoE In
Mode 2: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n78 Link + SIM Slot A2), PoE In
Mode 3: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n78 Link + SIM Slot B1), PoE In
Mode 4: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n78 Link + SIM Slot B2), PoE In
Mode 5: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN LTE Band 41 Link + SIM Slot B1), PoE In
Mode 6: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN WCDMA Band 2 Link + SIM Slot B1), PoE In
Mode 7: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n78 Idle + SIM Slot B1), PoE In
Mode 8: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN e-SIM on), PoE In

Mode 9: MAX BR2 Pro DX, Normal Operation(WAN(PoE) 1: 2.5Gbps + WAN 2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(GNA-930C) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n78 Link+ SIM Slot B1), PoE In

Mode 10: MAX BR2 Pro DX, Normal Operation(WAN 1~2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n78 Link + SIM Slot B1), M12 A Coding 4Pin Power, DC 10V

Mode 11: MAX BR2 Pro DX, Normal Operation(WAN 1~2: 2.5Gbps + LAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + WWAN 5G NR Band n78 Link + SIM Slot B1), M12 A Coding 4Pin Power, DC 30V

Mode 12: MAX Orbit 4, Normal Operation(LAN(PoE) 1: 2.5Gbps + LAN 2: 2.5Gbps + WAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + Serial(RS232) + USB), PoE In

Mode 13: MAX Orbit 4, Normal Operation(LAN 1~2: 2.5Gbps + WAN 1~4: 1Gbps + GPS(98335KSAF000) + Wi-Fi 5G + Wi-Fi 2.4G + Serial(RS232) + USB), Molex Power, AC Adapter(MU36B3120300-A1)

Final Test Mode	
Conducted Emission	Mode 12
Radiated Emission	Mode 11

Note:

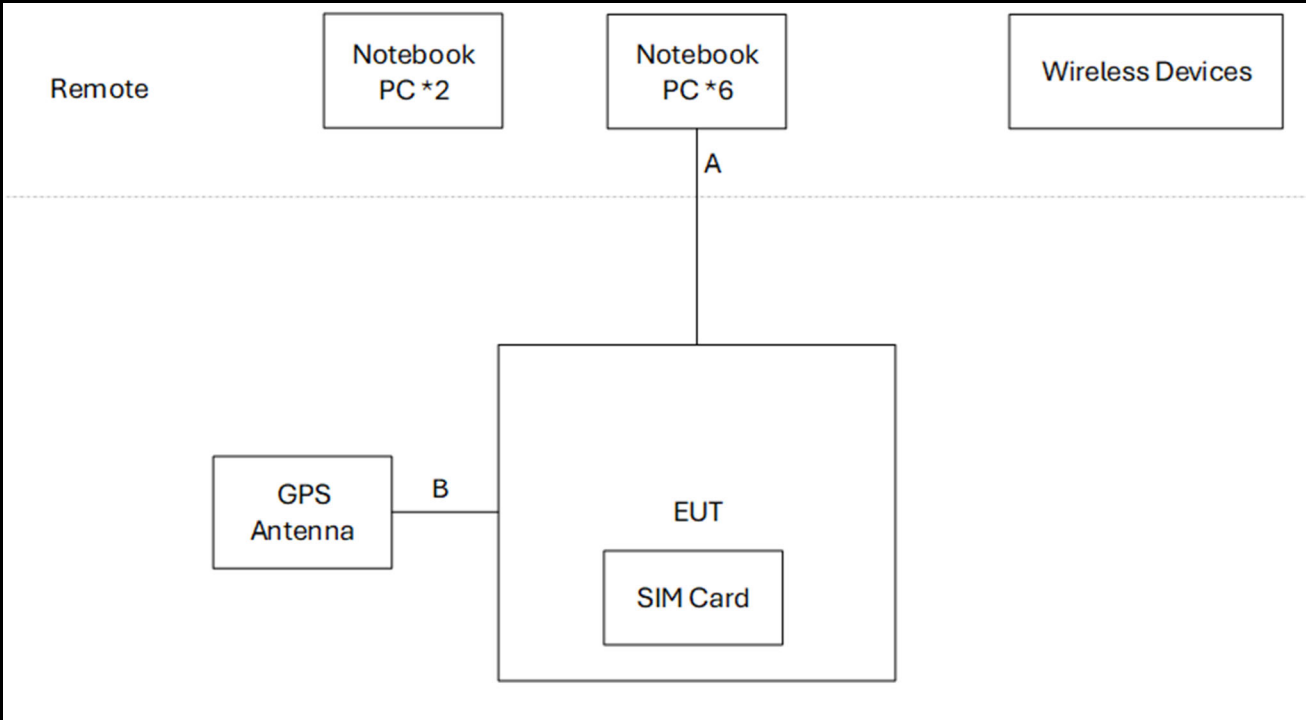
1. Refer to Certified Cellular module report worst band to test.
2. The worst SIM Card slot is Slot-A1 of Conducted Emission.
3. The worst SIM Card slot is Slot-B1 of Radiated Emission.
4. This product supports client/master mode, but it does not affect EMC testing after evaluation.

1.3. Configuration & Details of Tested System

Test Item	Conducted Emission			
Connection Diagram				
Remote Notebook PC *2 Notebook PC *6 Wireless Devices GPS Antenna EUT SIM Card A B				
Tested System Details				
Product	Manufacturer	Model No.	No.	Cable Type & Description
Notebook PC *6	Lenovo	TP00116D	A	M12 to LAN*6, shielded 7+0.2m
GPS Antenna	Master Wave	98335KSAF000	B	SMA, shielded 5m
Notebook PC *2	Lenovo	TP00116D		
SIM Card	Dekra	SIM1		
Wireless Devices Inf.				
Product	Manufacturer		Model No.	
Wireless Router	ASUS		ROG Rapture GT-AXE11000	
GPS Simulator	Orolia		GSG-5	
Base Station	R&S		CMW500	

Note:

- ☒ Use Full system setup configuration determines Worst-Case Mode.
- ☐ Use 2dB law program determines Max. Cable Configuration and Worst-Case Mode.
- ☒ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth to 3m from the EUT size sufficient to cover the procedure.
- ☐ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth non 3m distance sufficient to cover the size of the EUT program.

Test Item	Radiated Emission (Below 1GHz) / Radiated Emission (Above 1GHz)			
Connection Diagram				
Remote	Notebook PC *2	Notebook PC *6	Wireless Devices	
Tested System Details				
Product	Manufacturer	Model No.	No.	Cable Type & Description
Notebook PC *6	Lenovo	TP00116D	A	M12 to LAN*6, shielded 10+0.2m
GPS Antenna	Master Wave	98335KSAF000	B	SMA, shielded 5m
SIM Card	Dekra	SIM1		
Notebook PC *2	Lenovo	TP00116D		
Wireless Devices Inf.				
Product	Manufacturer		Model No.	
UXM 5G Wireless Test Platform	Keysight		E7515B	
GPS Simulator	Orolia		GSG-5	
Base Station	R&S		CMW500	

Note:

- ☒ Use Full system setup configuration determines Worst-Case Mode.
- ☐ Use 2dB law program determines Max. Cable Configuration and Worst-Case Mode.
- ☒ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth to 3m from the EUT size sufficient to cover the procedure.
- ☐ Radiated emission item test: Performed using the Horn Antenna 3dB Beamwidth non 3m distance sufficient to cover the size of the EUT program.

1.4. EUT Exercise Software

1	Setup the EUT and simulators as shown on 1.3.
2	Turn on the power of all equipment.
3	All the features of the EUT operation normally.

2. Technical Test

2.1. Summary of Test Result

- ☒ No deviations from the test standards
☐ Deviations from the test standards as below description:

Emission				
Performed Item	Normative References	Test Performed	Test Site	Verdict
Conducted Emission (Class A)	FCC CFR Title 47 Part 15 Subpart B:2025 ICES-003 Issue 7:2020	Yes	FS-SR06	Pass
Radiated Emission (Class A)	FCC CFR Title 47 Part 15 Subpart B:2025 ICES-003 Issue 7:2020	Yes	FS-CB01 FS-CB04	Pass

Note:

1. Test Site information refers to test Laboratory Information.
2. The test facility, measurement instrumentation and measurement methods used for verifying the compliance of ITE or digital apparatus with FCC CFR Title 47 Part 15 Subpart B shall comply either with the requirements in ANSI C63.4-2014 , a ANSI C63.4a-2017, ICES-003 shall comply either with the requirements in CAN/CSA-CISPR 32:17 or with those in ANSI C63.4-2014 , a ANSI C63.4a-2017.

Test Laboratory:	DEKRA Testing and Certification Co., Ltd. Linkou Laboratory
Address:	No. 85, Wenlin St., Linkou Dist., New Taipei City, 244017, Taiwan, R.O.C
Phone number:	+886-2-7753-2700
Fax number:	+886-2-2602-6881
Test Site	
FS: No.6, Lane 75, Wenlin St., Linkou Dist., New Taipei City, 244017, Taiwan, R.O.C No. 85, Wenlin St., Linkou Dist., New Taipei City, 244017, Taiwan, R.O.C	
HY: No.26, Huaya 1 st Rd., Guishan Dist., Taoyuan City 333411, Taiwan, R.O.C	

2.2. List of Test Equipment

Conducted Emission / FS-SR06

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Due Date
EMI Test Receiver	R&S	ESR3	102951	2026/3/12	2027/3/11
Two-Line V-Network	R&S	ENV216	100097	2026/6/3	2027/6/2
Two-Line V-Network	R&S	ENV216	102202	2026/7/29	2027/7/28
V-LISN	Schwarzbeck	NNBL 8229-HV	8229HV-00044	2026/1/19	2027/1/18
V-LISN	Schwarzbeck	NNBL 8229-HV	8229HV-00045	2026/1/19	2027/1/18
Impedance Stabilization Network	TESEQ	ISN T800	39228	2026/1/13	2027/1/12
Impedance Stabilization Network	TESEQ	ISN T8-Cat6	65513	2026/7/29	2027/7/28
Impedance Stabilization Network	TESEQ	ISN ST08	33998	2026/5/15	2027/5/14
Coaxial Cable	SUHNER	RG 400	LC019-RG	2026/6/14	2027/6/13
Note : ISN T800 for LAN 10Mbps to 1Gbps, T8-Cat6 for LAN above 1Gbps, ST08 for Shielded LAN					
Test Software version : e3 V9					

Note: Test Receiver Detector: Quasipeak and Average Bandwidth: 9kHz

Radiated Emission (Below 1GHz) / FS-CB01

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Due Date
Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01124	2026/9/29	2027/9/28
Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	01126	2026/9/29	2027/9/28
EMI Test Receiver	R&S	ESR7	102255	2026/3/12	2027/3/11
EMI Test Receiver	R&S	ESR7	102254	2025/12/9	2026/12/8
Coaxial Cable	SUHNER	SUCOFLEX 106	AC043-SF	2026/7/5	2027/7/4
Coaxial Cable	SUHNER	SUCOFLEX 106	AC044-SF	2026/7/5	2027/7/4
Coaxial Cable	SUHNER	SUCOFLEX 106	AC045-SF	2026/7/5	2027/7/4
Coaxial Cable	SUHNER	SUCOFLEX 106	AC046-SF	2026/7/5	2027/7/4
Coaxial Cable	SUHNER	SUCOFLEX 106	AC047-SF	2026/7/5	2027/7/4
Coaxial Cable	SUHNER	SUCOFLEX 106	AC049-SF	2026/7/5	2027/7/4
Coaxial Cable	SUHNER	SUCOFLEX 106	AC051-SF	2026/7/5	2027/7/4
Coaxial Cable	SUHNER	SUCOFLEX 106	AC052-SF	2026/7/5	2027/7/4
Preamplifier	SGH	SGH0301	20211007-1	2026/4/7	2027/4/6
Preamplifier	SGH	SGH0301	20211007-5	2025/12/23	2026/12/22
NSA	DEKRA	N/A	N/A	2026/7/6	2027/7/5
Test Software version : e3 V9					

Note: Test Receiver Detector: Quasipeak Bandwidth: 120kHz

Radiated Emission (Above 1GHz) / FS-CB04

Instrument	Manufacturer	Type No.	Serial No.	Cal. Date	Due Date
Double Ridged Guide Horn Antenna	RF SPIN	DRH18-E	KV2D09A18ES	2026/9/21	2027/9/20
Horn Antenna	COM-POWER	AH-840	10090013	2025/10/7	2026/10/6
EMI Test Receiver	R&S	ESR26	101385	2026/4/21	2027/4/20
Signal Analyzer	R&S	FSV40	101176	2026/5/15	2027/5/14
Coaxial Cable	VEGINEAN	VCA-VA500	HQ001C	2026/8/9	2027/8/8
Coaxial Cable	VEGINEAN	VCA-VA500	HQ004C	2026/8/9	2027/8/8
Coaxial Cable	VEGINEAN	VCA-VA800	HQ005C	2026/8/9	2027/8/8
Coaxial Cable	VEGINEAN	VCA-VA800	HQ006C	2026/8/9	2027/8/8
Microwave Preamplifier	SGH	SGH118	20200301	2026/8/19	2027/8/18
Microwave Preamplifier with cable	SGH	SGH184	20200302	2026/7/15	2027/7/14
VSWR	DEKRA	N/A	N/A	2026/8/9	2027/8/8
Test Software version : e3 V9					

2.3. Measurement Uncertainty

Test Items	Uncertainty
Conducted Emission	± 2.40 dB
Radiated Emission (Below 1GHz)	± 5.60 dB
Radiated Emission (Above 1GHz)	± 4.70 dB

2.4. Test Environment

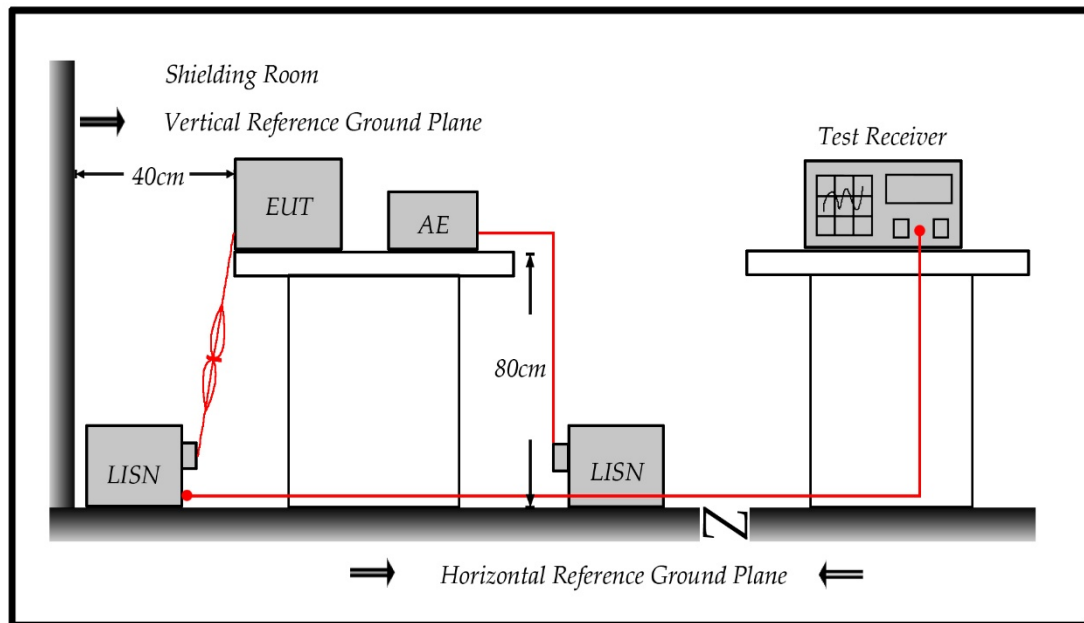
Performed Item	Items	Required
Conducted Emission	Temperature (°C)	10-40
	Humidity (%RH)	20-90
Radiated Emission	Temperature (°C)	10-40
	Humidity (%RH)	20-90

3. Conducted Emission

3.1. Test Specification

According to Standard : FCC Part 15 Subpart B, ICES-003 Issue 7, CISPR 22

3.2. Test Setup



3.3. Limit

Conducted emissions limits (AC mains power terminals)				
Frequency range (MHz)	Class A Quasi-peak (dBuV)	Class A Average (dBuV)	Class B Quasi-peak (dBuV)	Class B Average (dBuV)
0.15 - 0.5	79	66	66 to 56	56 to 46
0.5 - 5	73	60	56	46
5 - 30	73	60	60	50
Note:				
1. The more stringent limit applies at transition frequencies.				
2. The limit level in dBμV decreases linearly with the logarithm of frequency				

Remarks: In the above table, the tighter limit applies at the band edges.

3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination.

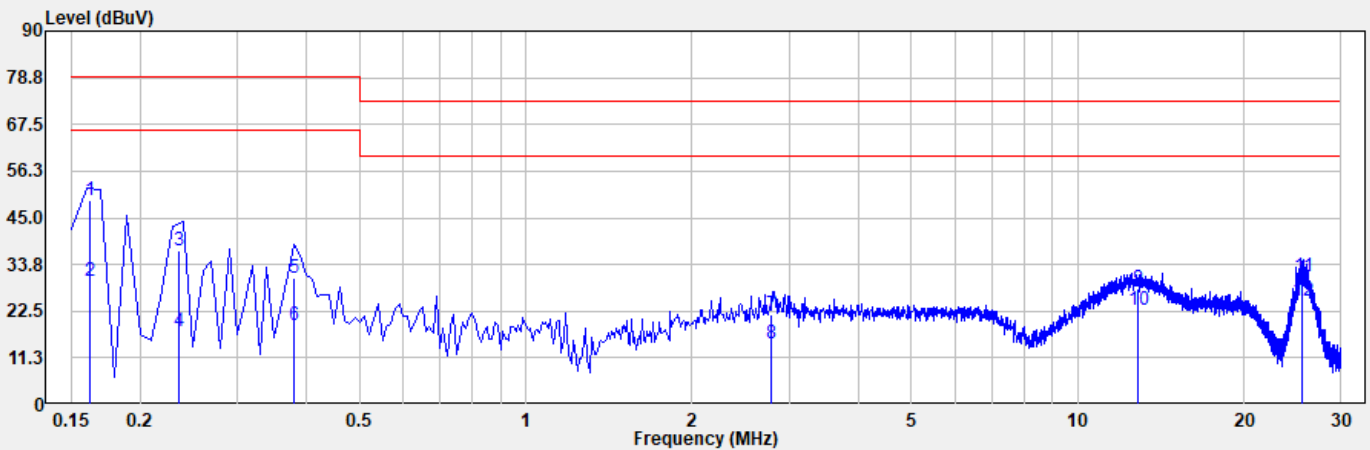
(Please refers to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

Conducted emissions were invested over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Test Result

Model No	MAX Orbit 4	Site	FS-SR06
Test Voltage	AC 120V/60Hz	Test Date	2026-10-08
Test Mode	Mode 12	Engineer	Nilk Chen
Phase	Line	Temperature (°C)	23.7
Test Condition	--	Humidity (%RH)	51

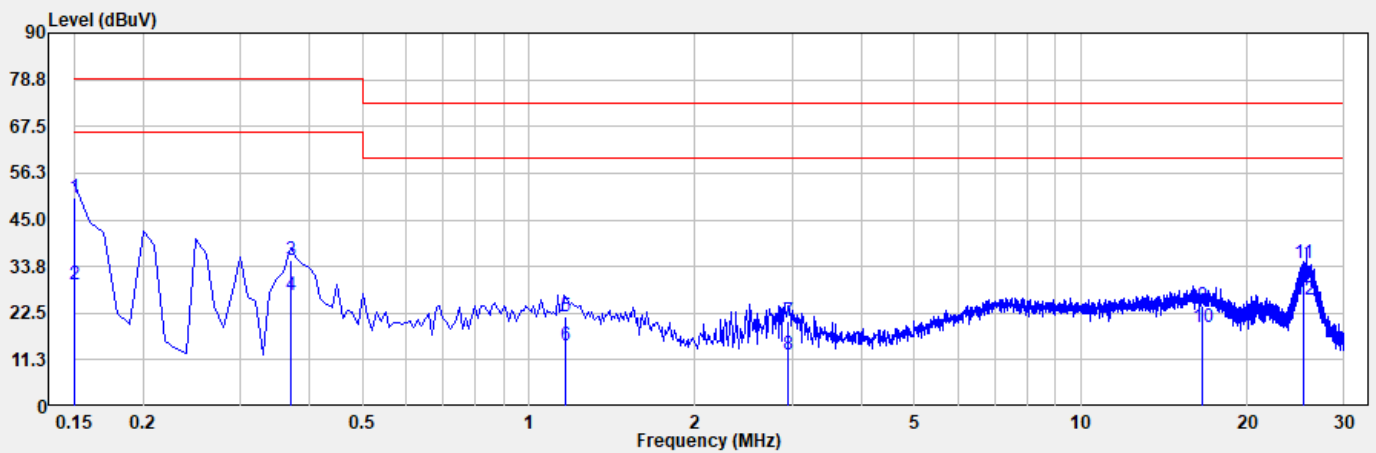


No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1*	0.163	49.07	79.00	-29.93	39.37	9.69	QP
2	0.163	29.87	66.00	-36.13	20.18	9.69	Average
3	0.236	37.04	79.00	-41.96	27.33	9.71	QP
4	0.236	17.60	66.00	-48.40	7.89	9.71	Average
5	0.380	30.61	79.00	-48.39	20.91	9.70	QP
6	0.380	19.09	66.00	-46.91	9.38	9.70	Average
7	2.792	21.53	73.00	-51.47	11.72	9.81	QP
8	2.792	14.57	60.00	-45.43	4.76	9.81	Average
9	12.888	27.92	73.00	-45.08	17.87	10.05	QP
10	12.888	22.71	60.00	-37.29	12.66	10.05	Average
11	25.523	30.79	73.00	-42.21	20.61	10.18	QP
12	25.523	25.15	60.00	-34.85	14.97	10.18	Average

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit

Model No	MAX Orbit 4	Site	FS-SR06
Test Voltage	AC 120V/60Hz	Test Date	2026-10-08
Test Mode	Mode 12	Engineer	Nilk Chen
Phase	Neutral	Temperature (°C)	23.7
Test Condition	--	Humidity (%RH)	51



No	Frequency (MHz)	Emission Level (dBuV)	Limit (dBuV)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB)	Detector Type
1*	0.150	50.30	79.00	-28.70	40.60	9.70	QP
2	0.150	29.53	66.00	-36.47	19.83	9.70	Average
3	0.371	35.40	79.00	-43.60	25.73	9.68	QP
4	0.371	26.79	66.00	-39.21	17.12	9.68	Average
5	1.168	21.75	73.00	-51.25	12.01	9.75	QP
6	1.168	14.79	60.00	-45.21	5.05	9.75	Average
7	2.948	20.75	73.00	-52.25	10.95	9.80	QP
8	2.948	12.58	60.00	-47.42	2.78	9.80	Average
9	16.627	24.24	73.00	-48.76	14.00	10.24	QP
10	16.627	19.19	60.00	-40.81	8.95	10.24	Average
11	25.291	34.39	73.00	-38.61	23.98	10.41	QP
12	25.291	25.59	60.00	-34.41	15.18	10.41	Average

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=LISN Factor+Cable Loss).
3. Margin=Emission Level-Limit

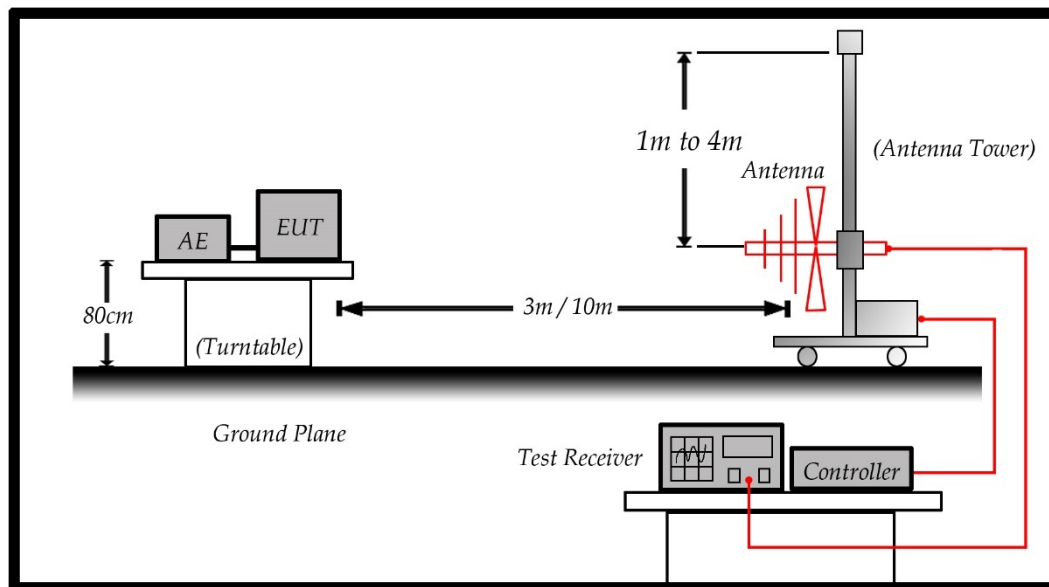
4. Radiated Emission

4.1. Test Specification

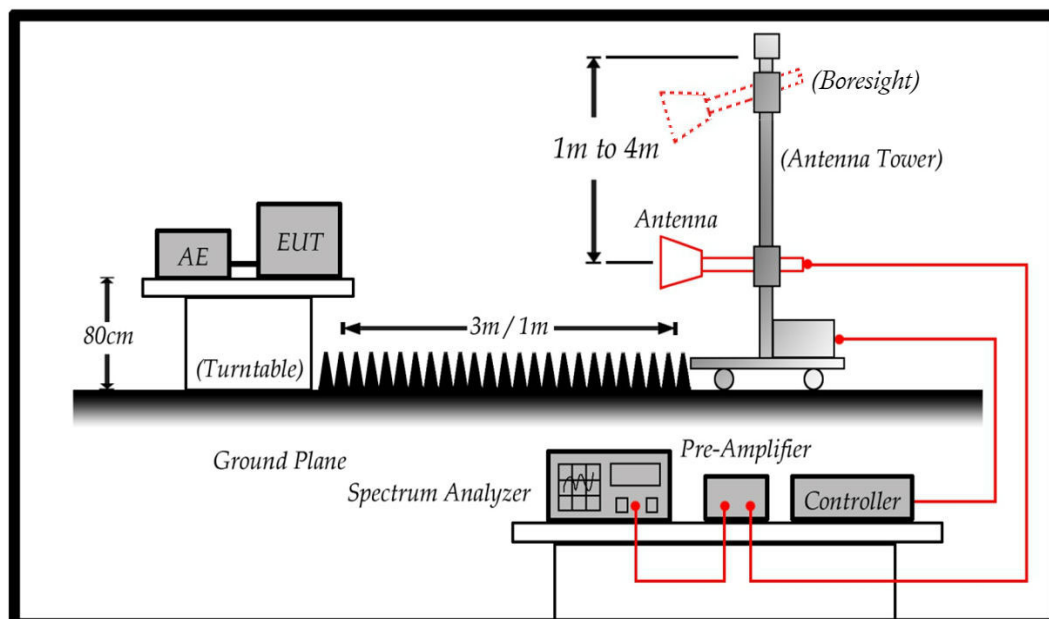
According to Standard : FCC Part 15 Subpart B & ICES-003 Issue 7

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limit

Test shall not exceed the following value:

FCC Part 15 Subpart B Paragraph 15.109 Limits (dBuV/m)		
Frequency (MHz)	Distance(m)	dBuV/m
30-88	10	39
88-216	10	43.5
216-960	10	46.4
960-1000	10	49.5
1000-40000	3	60
18000-40000	1	69.5

Remark:

1. The tighter limit shall apply at the edge between two frequency bands.
2. Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.
3. RF Voltage (dBuV/m) = $20 \log \text{RF Voltage (uV/m)}$

ICES-003 Issue 7

Radiated emissions limits (30 MHz to 1 GHz)				
Frequency range (MHz)	Class A (3 m) Quasi-peak (dBuV/m)	Class A (10 m) Quasi-peak (dBuV/m)	Class B (3 m) Quasi-peak (dBuV/m)	Class B (10 m) Quasi-peak (dBuV/m)
30-88	50.0	40.0	40.0	30.0
88-216	54.0	43.5	43.5	33.1
216-230	56.9	46.4	46.0	35.6
230-960	57.0	47.0	47.0	37.0
960-1000	60.0	49.5	54.0	43.5
Note: The more stringent limit applies at transition frequencies.				

Required highest measurement frequency for radiated emissions

Highest internal frequency (F_x)	Highest measured frequency
$F_x \leq 108 \text{ MHz}$	1 GHz
$108 \text{ MHz} < F_x \leq 500 \text{ MHz}$	2 GHz
$500 \text{ MHz} < F_x \leq 1 \text{ GHz}$	5 GHz
$F_x > 1 \text{ GHz}$	$5 \times F_x$ up to a maximum of 40 GHz
Note: F_x is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.	

Radiated emission limits at 3 m distance (at and above 1 GHz)				
Frequency range (GHz)	Class A Average dB(uV/m)	Class A Peak dB(uV/m)	Class B Average dB(uV/m)	Class B Peak dB(uV/m)
$1 - F_M$	60	80	54	74
Note: - The highest measurement frequency, F_M, in GHz, shall be determined as per table 3. - The measurement bandwidth shall be 1 MHz or greater. - These limit levels apply for a measurement distance of 3 m. If using a different measurement distance, the measured levels shall be extrapolated to the 3 m limit distance using a factor of 20 dB per decade of distance. The measurement distance shall place the measurement antenna in the far field of the ITE or digital apparatus under test. - The test site shall have been validated at the distance used for radiated emission measurements on the ITE or digital apparatus under test.				

4.4. Test Procedure

FCC Part 15 Subpart B

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna (boresight antenna tower) can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

Highest frequency generated or used in the device or on which the device operates or tunes (MHz)	Upper frequency of measurement range (MHz)
Below 1.705	30
1.705 – 108	1000
108 – 500	2000
500 – 1000	5000
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower

On any frequency or frequencies below or equal to 1000MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.

For class A, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and above 1GHz.

For class B, the measurement distance between the EUT and antenna is 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (Test Receiver) is 120 kHz and above 1GHz is 1MHz.

ICES-003 Issue 7

The EUT and its simulators are placed on a turn table which is 0.8 meter above ground.

The turn table can rotate 360 degrees to determine the position of the maximum emission level and the antenna (boresight antenna tower) can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated on radiated measurement.

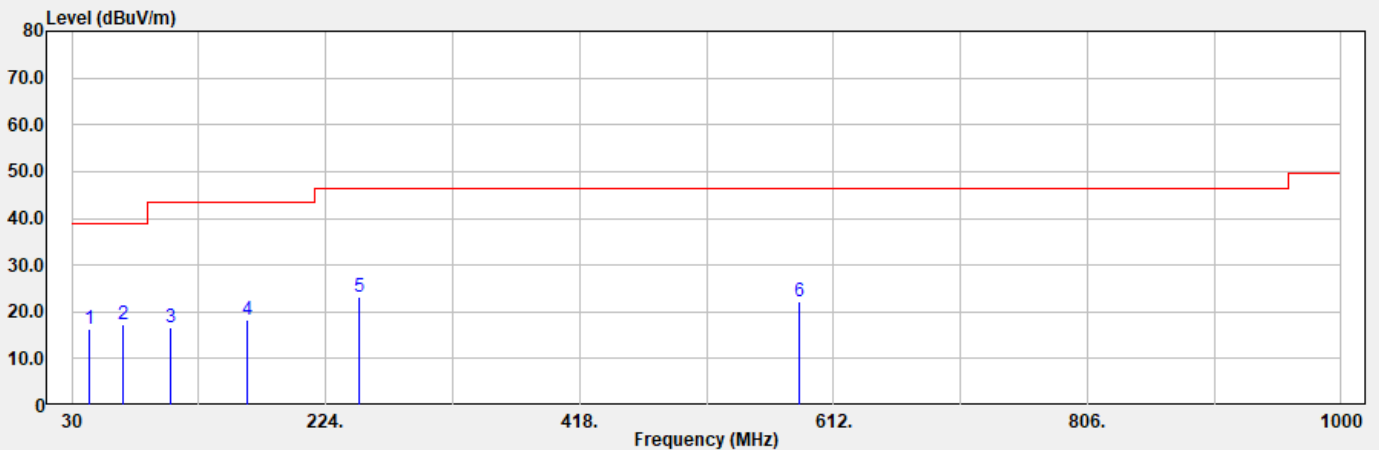
On any frequency or frequencies below or equal to 1000MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000MHz, the radiated limits shown are based measuring equipment employing an peak & average detector function.

The measurement distance between the EUT and antenna is 3 meters or 10 meters for under 1GHz and 3 meters for above 1GHz.

The bandwidth below 1GHz setting on the field strength meter (Test Receiver) is 120kHz and above 1GHz is 1MHz.

4.5. Test Result

Model No	MAX BR2 Pro DX	Site	FS-CB01
Test Voltage	DC 30V	Test Date	2026-10-07
Test Mode	Mode 11	Engineer	ZhengLamYap
Polarity	Horizontal	Temperature (°C)	23.8
Test Condition	--	Humidity (%RH)	56

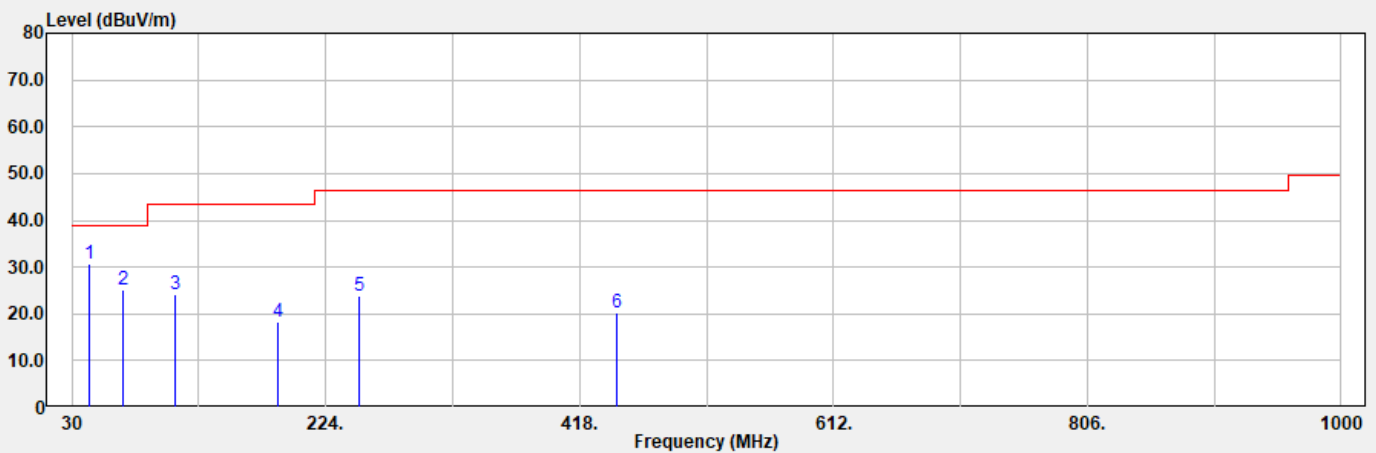


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	43.823	16.20	39.00	-22.80	39.42	-23.22	400	16	QP
2*	69.164	17.25	39.00	-21.75	42.49	-25.24	300	299	QP
3	105.296	16.52	43.50	-26.98	43.24	-26.72	400	0	QP
4	163.981	18.38	43.50	-25.12	40.82	-22.44	274	0	QP
5	249.948	23.27	46.40	-23.13	46.59	-23.32	400	41	QP
6	585.810	22.06	46.40	-24.34	35.97	-13.91	200	76	QP

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.
4. The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.

Model No	MAX BR2 Pro DX	Site	FS-CB01
Test Voltage	DC 30V	Test Date	2026-10-07
Test Mode	Mode 11	Engineer	ZhengLamYap
Polarity	Vertical	Temperature (°C)	23.8
Test Condition	--	Humidity (%RH)	56

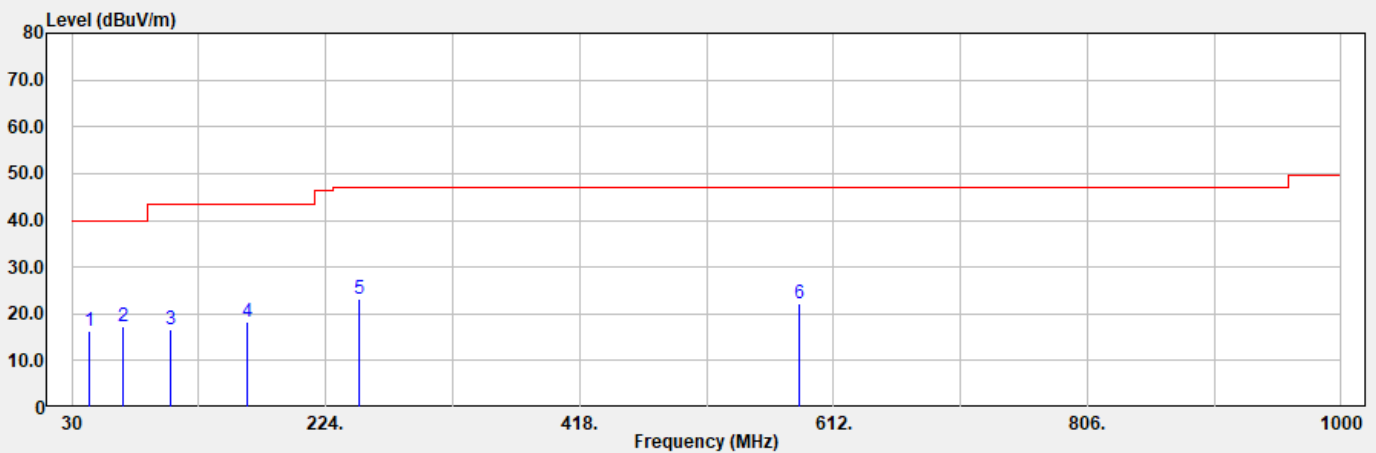


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1*	43.459	30.76	39.00	-8.24	54.13	-23.37	100	270	QP
2	69.649	25.01	39.00	-13.99	50.59	-25.58	200	73	QP
3	108.813	24.32	43.50	-19.18	50.58	-26.26	100	205	QP
4	187.383	18.17	43.50	-25.33	43.14	-24.97	100	254	QP
5	249.948	23.94	46.40	-22.46	47.17	-23.23	100	309	QP
6	446.373	20.33	46.40	-26.07	37.04	-16.71	100	259	QP

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.
4. The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.

Model No	MAX BR2 Pro DX	Site	FS-CB01
Test Voltage	DC 30V	Test Date	2026-10-07
Test Mode	Mode 11	Engineer	ZhengLamYap
Polarity	Horizontal	Temperature (°C)	23.8
Test Condition	--	Humidity (%RH)	56

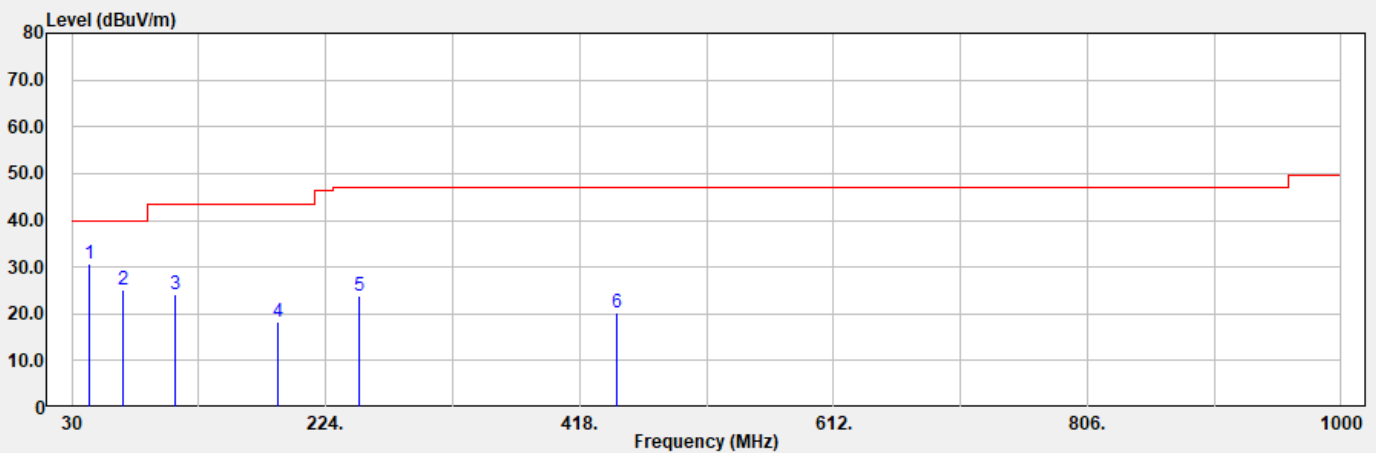


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	43.823	16.20	40.00	-23.80	39.42	-23.22	400	16	QP
2*	69.164	17.25	40.00	-22.75	42.49	-25.24	300	299	QP
3	105.296	16.52	43.50	-26.98	43.24	-26.72	400	0	QP
4	163.981	18.38	43.50	-25.12	40.82	-22.44	274	0	QP
5	249.948	23.27	47.00	-23.73	46.59	-23.32	400	41	QP
6	585.810	22.06	47.00	-24.94	35.97	-13.91	200	76	QP

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.
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Model No	MAX BR2 Pro DX	Site	FS-CB01
Test Voltage	DC 30V	Test Date	2026-10-07
Test Mode	Mode 11	Engineer	ZhengLamYap
Polarity	Vertical	Temperature (°C)	23.8
Test Condition	--	Humidity (%RH)	56

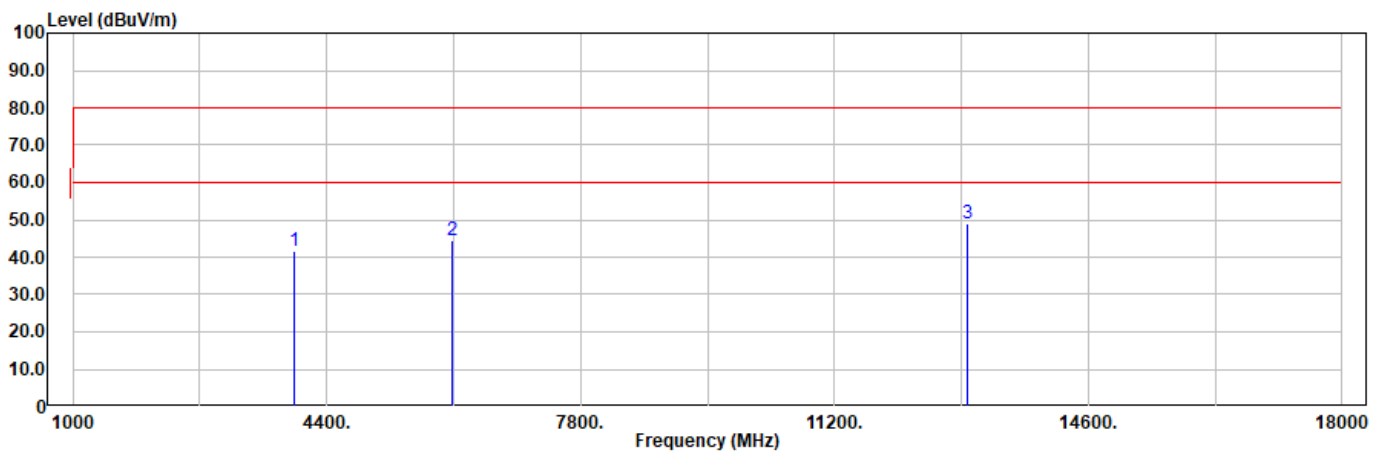


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1*	43.459	30.76	40.00	-9.24	54.13	-23.37	100	270	QP
2	69.649	25.01	40.00	-14.99	50.59	-25.58	200	73	QP
3	108.813	24.32	43.50	-19.18	50.58	-26.26	100	205	QP
4	187.383	18.17	43.50	-25.33	43.14	-24.97	100	254	QP
5	249.948	23.94	47.00	-23.06	47.17	-23.23	100	309	QP
6	446.373	20.33	47.00	-26.67	37.04	-16.71	100	259	QP

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.
4. The above 1 GHz test. When PEAK measures level less than AV limit by 20 dBuV, its average is not measured separately.

Model No	MAX BR2 Pro DX	Site	FS-CB04
Test Voltage	DC 30V	Test Date	2026-09-24
Test Mode	Mode 11	Engineer	Chuck Chuang
Polarity	Horizontal	Temperature (°C)	20.6
Test Condition	--	Humidity (%RH)	66

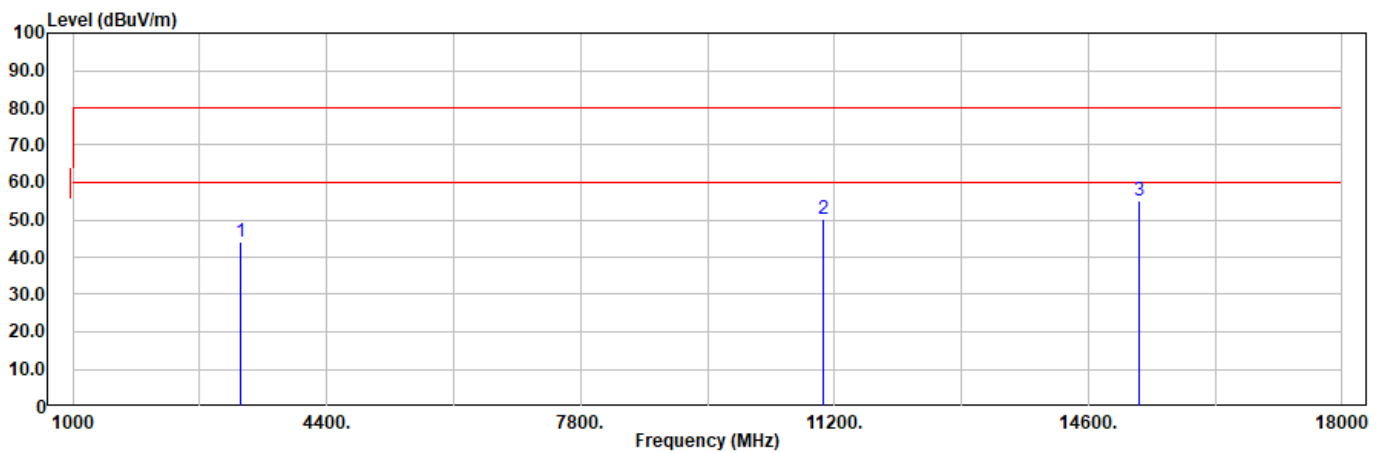


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	3958.000	41.81	80.00	-38.19	51.10	-9.29	200	258	Peak
2	6078.750	44.61	80.00	-35.39	46.57	-1.95	200	334	Peak
3*	12976.500	48.91	80.00	-31.09	40.73	8.18	185	360	Peak

Remark:

1. "" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Model No	MAX BR2 Pro DX	Site	FS-CB04
Test Voltage	DC 30V	Test Date	2026-09-24
Test Mode	Mode 11	Engineer	Chuck Chuang
Polarity	Vertical	Temperature (°C)	20.6
Test Condition	--	Humidity (%RH)	66

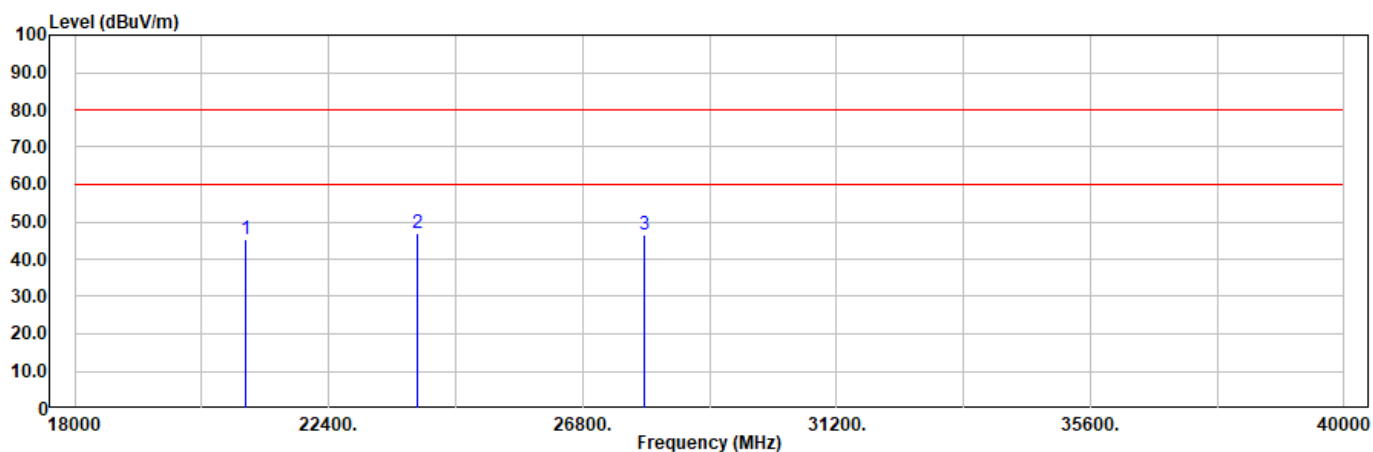


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	3252.500	44.07	80.00	-35.93	55.25	-11.18	100	109	Peak
2	11042.750	50.11	80.00	-29.89	45.59	4.52	200	293	Peak
3*	15271.500	55.25	80.00	-24.75	46.05	9.19	147	360	Peak

Remark:

1. "" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Model No	MAX BR2 Pro DX	Site	FS-CB04
Test Voltage	DC 30V	Test Date	2026-09-24
Test Mode	Mode 11	Engineer	Chuck Chuang
Polarity	Horizontal	Temperature (°C)	20.6
Test Condition	--	Humidity (%RH)	66

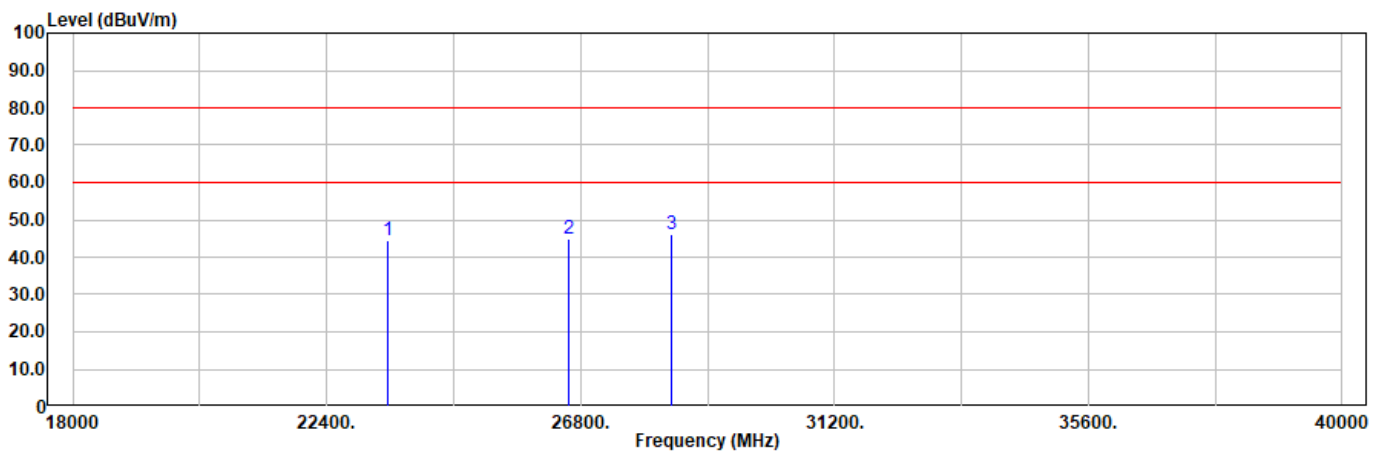


No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	20953.500	45.27	80.00	-34.73	45.77	-0.50	100	144	Peak
2*	23934.500	46.87	80.00	-33.13	45.72	1.15	100	194	Peak
3	27883.500	46.72	80.00	-33.28	44.65	2.07	100	283	Peak

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.

Model No	MAX BR2 Pro DX	Site	FS-CB04
Test Voltage	DC 30V	Test Date	2026-09-24
Test Mode	Mode 11	Engineer	Chuck Chuang
Polarity	Vertical	Temperature (°C)	20.6
Test Condition	--	Humidity (%RH)	66



No	Frequency (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Reading Level (dBuV)	Correct Factor (dB/m)	Ant Pos (cm)	TT Pos (deg)	Detector Type
1	23467.000	44.64	80.00	-35.36	43.71	0.93	100	23	Peak
2	26585.500	44.95	80.00	-35.05	42.76	2.19	200	170	Peak
3*	28367.500	46.28	80.00	-33.72	43.40	2.88	200	112	Peak

Remark:

1. "*" means this data is the worst margin; "!" means this data is over limit.
2. Emission Level=Reading Level + Correct Factor(Correct Factor=Ant Factor+Cable Loss-Pre Amp).
3. Margin=Emission Level - Limit.
4. The average measurement was not performed when the peak measured data under the limit of average detection. If the readings given are average, peak measurement should also be supplied.