COMPLIANCE ENGINEERING
EMC Product Safety Environmental Shielding

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EMC Compliance Test Report

CFR 47, Chapter 1, Subpart A,
Part 15, Subpart B
Report Number: CE4774B
January 2026

TMEIC Process Technology Application Centre P/L
B0EMCB08 Real Time Ethernet
Model: PN912

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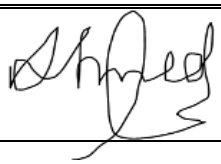
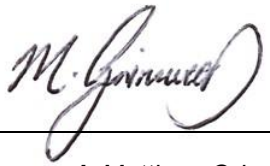
COMPLIANCE CERTIFICATE

Client Details:	**Customer:**	TMEIC Process Technology Application Centre P/L
	Address:	358 Main Street, Mornington, Victoria 3931 Australia
	Contact:	Rodolfo Sandonato
	Phone:	03 5977 0722 / 0428 459 130
	Email:	rodolfo.sandonato@tmeic.com.au
Product Details:	**Device:**	B0EMCB08 Real Time Ethernet
	Model:	PN912
	Serial:	PN912c-005
	FCC ID:	2BUU2B0EMCB08
Reference Standard:	**FCC Part 15 B**	CFR 47 - Telecommunication Chapter I - Federal Communications Commission Subchapter A - General Part 15 - Radio Frequency Devices Subpart B Unintentional Radiators
Test Method:	ANSI C63.4-2014: American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.	
Test Dates:	13th December 2025	
Tests Performed by:	Ahmed Ibrahim Compliance Engineering 90 Indian Drive, Keysborough, Victoria, Australia 3173. Telephone: +61 3 9763 3079 Email: info@compeng.com.au	

The **B0EMCB08 Real Time Ethernet (Model: PN912)** complied with radiated RF emission requirements detailed in CFR 47, Chapter 1, Subpart A, Part 15, Subpart B (Class A) limits.

		23rd January 2026
Prepared: *Ahmed Ibrahim* *Test Engineer* *Compliance Engineering*	***Approved:*** *Matthew Grimwood* *EMC Laboratory Manager* *Compliance Engineering*	***Date***

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Revision History			
Revision	**Issue Date**	**Remarks**	**Revised by**
0	23-01-2026	Initial release	-

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EMC Compliance Test Report

1. INTRODUCTION

Electromagnetic compatibility (EMC) measurements were performed on the B0EMCB08 Real Time Ethernet (Model: PN912) in accordance with the requirements detailed in CFR 47, Chapter 1, Subpart A, Part 15, Subpart B (Class A) limits.

2. RESULTS SUMMARY

CFR 47, Chapter 1, Subpart A, Part 15, Subpart B

FCC Rule	Test Description	Class	Result
15.107	AC conducted emissions	Class A	**N/A**
15.109	Radiated emissions		**Complied**

N/A – Not Applicable

3. TEST SAMPLE

Equipment Under Test (*Information supplied by client*):	
Product Name	B0EMCB08 Real Time Ethernet
Model Number	PN912
Brand Name(s)	TMEIC
Serial Number	PN912c-005
Product Description	Real Time Ethernet Communications Gateway
Equipment type	Ethernet Gateway
Highest Clock Frequency (CPU)	1.3 GHz
Hardware Version	3.00
Software/Firmware Version	Rel: 2.1.8.7800/9.0.0.29.7771
Dimensions (mm)	220mm (W) x 210mm (D) x 45mm (H)
Weight	Net: 1450g
Power Ratings	8.5W / Typical
Operating Temperature	-20°C to +55°C
Interconnecting Cables	LAN1 Ethernet
	2x PROFINET – Real Time Ethernet
	2x Optical LC (TC-net)

The product information provided has been supplied by the client. Compliance Engineering does not verify the accuracy or completeness of this information and accepts no responsibility for errors or omissions. All testing and reporting are based solely on the data and samples provided.

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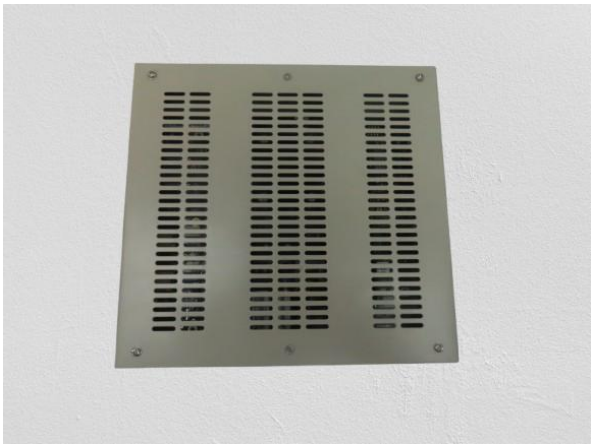

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4. MODIFICATIONS

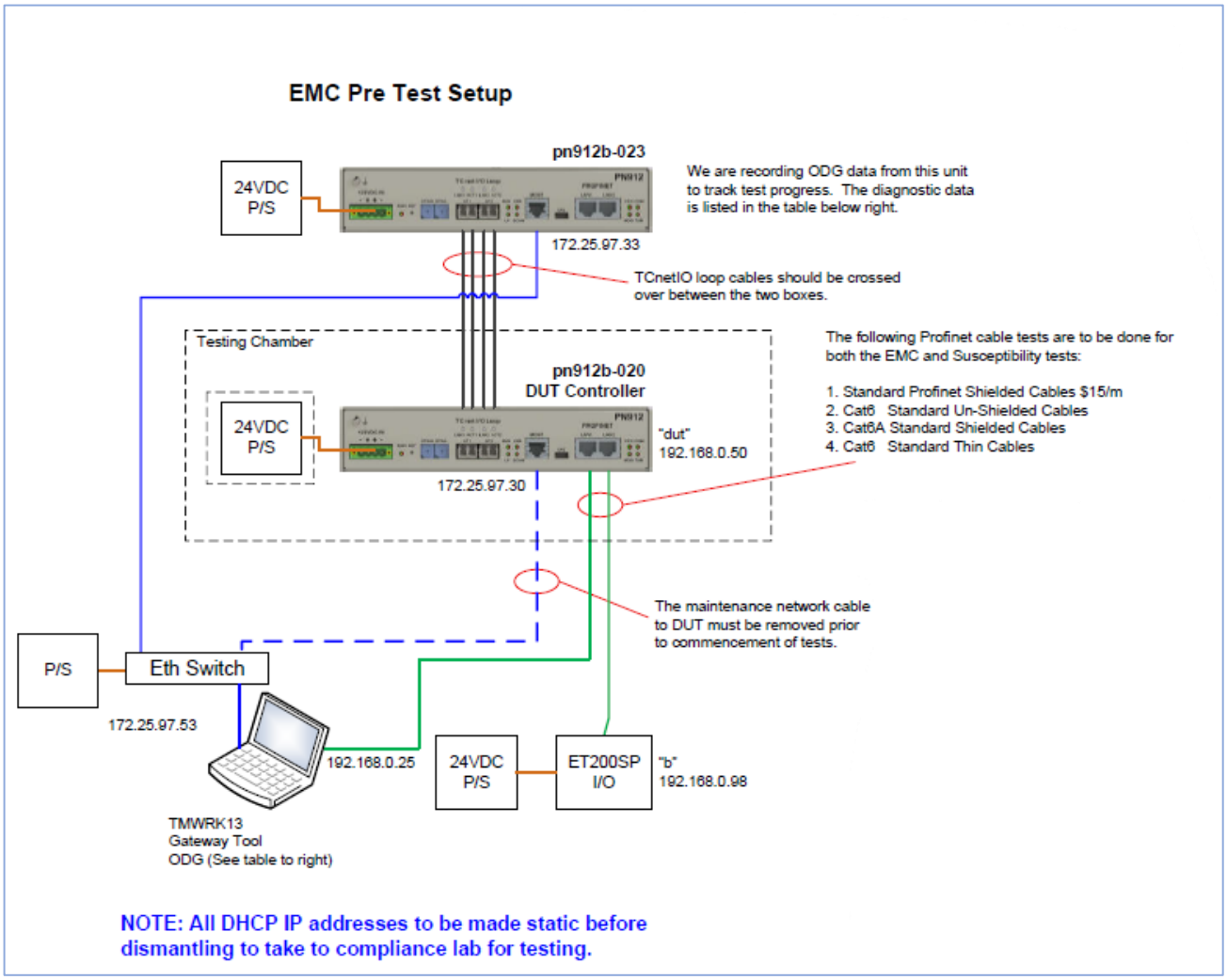
No modification was performed.

5. STANDARD DEVIATIONS

No deviations from the standard were made.

6. CONFIGURATION

The B0EMCB08 Real Time Ethernet (Model: PN912) was powered at 24VDC via two 12V batteries.



The EUT (Serial: PN912c-005) was communicating with a companion unit (Serial: PN912c-004). A datalogging server (ODG) was used to capture all the activity. All the parameters listed below in the table were captured and recorded.

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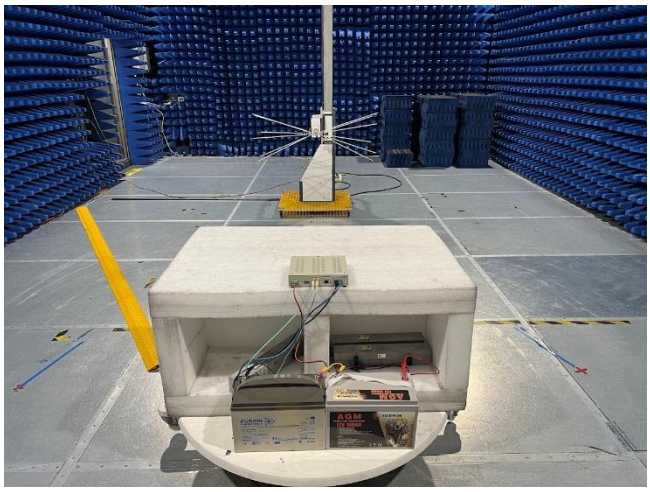
RAS Data to Tcnet TB=TCnetIO StnNumber

TCnet Block	Word	Bit	Name	Type	Size	TCnetSpeed	Gateway DeviceType	SubDevice	Instance	Word	Bit	Description
R	0	0	L_PNTR_COUNTER	INT	1	MS	TRENZ	MetaData	0	0	0	16 bit Counter at 100msec rate
R	1	0	L_PNTR_SPARE1	INT	1	MS	TRENZ	MetaData	0	0	0	Spare for future = 0
R	2	0	L_PNTR_ID	WORD	1	MS	TRENZ	MetaData	0	0	0	Gateway PN912 ID (0x504E) = "PN"
R	3	0	L_PNTR_MAJOR_REV	INT	1	MS	TRENZ	MetaData	0	0	0	Gateway TMGW Program major rev
R	4	0	L_PNTR_MINOR_REV	INT	1	MS	TRENZ	MetaData	0	0	0	Gateway TMGW Program minor rev
R	5	0	L_PNTR_PLTEMP	INT	1	MS	TRENZ	MetaData	0	0	0	PL Core temperature [degC*10]
R	6	0	L_PNTR_PSTEMP	INT	1	MS	TRENZ	MetaData	0	0	0	PS Core Temperature [degC*10]
R	7	0	L_PNTR_TEMP_1	INT	1	MS	TRENZ	MetaData	0	0	0	Module temperature [degC*10]
R	8	0	L_PNTR_TEMP_2	INT	1	MS	TRENZ	MetaData	0	0	0	Ambient Case Temperature [degC*10]
R	9	0	L_PNTR_MVOLTS	INT	1	MS	TRENZ	MetaData	0	0	0	Trenz Module Voltage [Volts*1000]
R	10	0	L_PNTR_MAMPS	INT	1	MS	TRENZ	MetaData	0	0	0	Trenz Module Current [Amps*1000]
R	11	0	L_PNTR_MPOWER	INT	1	MS	TRENZ	MetaData	0	0	0	Trenz Module Power [Watts*1000
R	12	0	L_PNTR_SERIALNO	ARRAY[0..2] OF WORD	3	MS	TRENZ	MetaData	0	0	0	Main board serial number
R	15	0	L_PNTR_FPGAFWL	WORD	1	MS	TRENZ	MetaData	0	0	0	FPGA Firmware version (low word)
R	16	0	L_PNTR_FPGAFWH	WORD	1	MS	TRENZ	MetaData	0	0	0	FPGA Firmware version (high word)
R	17	0	L_PNTR_TYPEVER	WORD	1	MS	TRENZ	MetaData	0	0	0	Mainboard type/ver
R	18	0	L_PNTR_IFJ	WORD	1	MS	TRENZ	MetaData	0	0	0	Daughterboard version(0=no db)
R	19	0	L_PNTR_SPARE2	WORD	1	MS	TRENZ	MetaData	0	0	0	Spare for future = 0
R	20	0	L_PNCO_CCOFSTATE	DWORD	2	MS	COMX_CS	MetaData	0	0	0	Communication Change of State
R	22	0	L_PNCO_CSTATE	DWORD	2	MS	COMX_CS	MetaData	0	0	0	Communication State
R	24	0	L_PNCO_CERROR	DWORD	2	MS	COMX_CS	MetaData	0	0	0	Communication Error
R	26	0	L_PNCO_VERSION	WORD	1	MS	COMX_CS	MetaData	0	0	0	Version
R	27	0	L_PNCO_WDTIMEOUT	WORD	1	MS	COMX_CS	MetaData	0	0	0	Watchdog Timeout
R	28	0	L_PNCO_HOSTWD	DWORD	2	MS	COMX_CS	MetaData	0	0	0	Host Watchdog
R	30	0	L_PNCO_ERRCOUNT	DWORD	2	MS	COMX_CS	MetaData	0	0	0	Error Count
R	32	0	L_PNCO_ERRLOGIND	DWORD	2	MS	COMX_CS	MetaData	0	0	0	Error Log Indicator
R	34	0	L_PNCO_SLVSTATE	DWORD	2	MS	COMX_CS	MetaData	0	0	0	Slave State
R	36	0	L_PNCO_SLVERRLOGIND	DWORD	2	MS	COMX_CS	MetaData	0	0	0	Slave Error Log Indicator
R	38	0	L_PNCO_CFGSLAVES	DWORD	2	MS	COMX_CS	MetaData	0	0	0	Configured Slaves
R	40	0	L_PNCO_ACTSLAVES	DWORD	2	MS	COMX_CS	MetaData	0	0	0	Active Slaves
R	42	0	L_PNCO_FLTSLAVES	DWORD	2	MS	COMX_CS	MetaData	0	0	0	Faulted Slaves
R	44	0	L_PNNX_MVOLTS	INT	1	MS	COMX	MetaData	0	0	0	Netx Module Voltage [Volts*1000]
R	45	0	L_PNNX_MAMPS	INT	1	MS	COMX	MetaData	0	0	0	Netx Module Current [Amps*1000]
R	46	0	L_PNNX_MPOWER	INT	1	MS	COMX	MetaData	0	0	0	Netx Module Power [Watts*1000
R	47	0	L_PNNX_TIMESTRT	INT	1	MS	COMX	MetaData	0	0	0	Netx Module Time Since Start [Sec]
R	48	0	L_PNNX_CPULD	INT	1	MS	COMX	MetaData	0	0	0	Netx Module CPU Load [Percent*10]
R	49	0	L_PNNX_SPARE	INT	1	MS	COMX	MetaData	0	0	0	Spare for future = 0
R	50	0	L_PNTC_RSRTM	FLOAT	2	MS	TCNETIO	MetaData	0	0	0	TCnetIO (0x09c) SYN orbit real time in units of msec
R	52	0	L_PNTC_WAOKCT	DWORD	2	MS	TCNETIO	MetaData	0	0	0	TCnetIO (0x1b0) A circuit OK counter
R	54	0	L_PNTC_WBOKCT	DWORD	2	MS	TCNETIO	MetaData	0	0	0	TCnetIO (0x1b4) B circuit OK counter
R	56	0	L_PNTC_WANCDCT	DWORD	2	MS	TCNETIO	MetaData	0	0	0	TCnetIO (0x1b8) A circuit LRR counter
R	58	0	L_PNTC_WBNCDCT	DWORD	2	MS	TCNETIO	MetaData	0	0	0	TCnetIO (0x1bB) B circuit LRR counter
R	60	0	L_PNTC_WACRCCT	DWORD	2	MS	TCNETIO	MetaData	0	0	0	TCnetIO (0x1c0) A circuit error counter
R	62	0	L_PNTC_WBCRCCT	DWORD	2	MS	TCNETIO	MetaData	0	0	0	TCnetIO (0x1c4) B circuit error counter



6.1. Supporting Equipment Used During Testing

AE: Auxiliary/Associated Equipment				
Device	**Manufacturer**	**Model No:**	**Serial**	**Comments**
Real Time Ethernet Gateway	TMEIC	PN912	PN912c-004	Support Equipment for data logging
PC	N/A	N/A	TMWRK13	For ODG server data logging

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7. TEST FACILITY

All measurements were performed at Compliance Engineering, 90 Indian Drive Keysborough, Victoria, Australia.

A2LA (ISO 17025-2017) – Certificate No: 2829.01
Compliance Engineering is accredited to ISO 17025-2017 by American Association for Laboratory Accreditation (A2LA) which is an ILAC member and has mutual recognition agreements with the National Voluntary Laboratory Accreditation Program (NVLAP)

All measurements within this report have been performed in accordance with Compliance Engineering's scope of A2LA accreditation.

The current full scope of accreditation can be found on the A2LA website: www.a2la.org

FCC – Registration No: 982700
Compliance Engineering has been recognized and is listed as an FCC part 47 CFR 2.948 measurement facility to perform compliance testing on equipment under Parts 15 and 18. The Designation Number is AU0006 and the Test Firm Registration Number is 982700.

Innovation, Science & Economic Development Canada (ISED) - Registration No: 27266
Compliance Engineering's 3m indoor semi-anechoic chamber (iOATS) has been accepted by Innovation, Science & Economic Development Canada (ISED) for performing radiated measurements in accordance with RSS-102, RSS-GEN, RSS-210, RSS-247, RSS-248 – ISED Canada Registration No: 27266

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8. FIELD STRENGTH CALCULATION

All emission measurements are automatically calculated via the dedicated EMC software using the pre-stored calibration factors. The following equation simplifies the actual calculation performed;

Corr.Ampl = V_{RAW} + AF – G + L

Where:

Corr.Ampl = Corrected amplitude in dBµV/m (for radiated) & dBµV (for conducted)
V_{RAW} = Raw voltage receiver/analyser reading in dBµV
AF = Antenna Factor in dB (stored as a data array of factor vs frequency)
G = Preamplifier Factor in dB (stored as a data array of gain vs frequency)
L = Cable Loss Factor in dB (stored as a data array of insertion loss vs frequency)

Limit:

The FCC limits are given in units of µV/m. The following formula is used to convert the units of µV/m to dBµV/m.

Limit (dBµV/m) = 20*log(µV/m)

Margin:

This is the margin of compliance below the FCC limit. The units are given in dB. A negative margin indicates the emission was below the limit. A positive margin indicates that the emission exceeds the limit.

Example Calculation:

A peak emission is observed at 100 MHz at 21.5 dBµV. An antenna factor for that frequency is 10 dB. The preamplifier gain factor is 30 dB and the cable loss at that same frequency 1.5 dB. Hence the overall Correction Amplitude is as follows;

V_{RAW} + AF - G + L : Corr.Amp - FCC Limit = Margin

31.5 + 10 - 20 + 1.5 : 23 dBµV/m - 57.0 dBµV/m = - 34 dB

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9. 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 / Range	Uncertainty
Temperature *(ANSI C63.4-2014)*	10°C to 40°C	0.5°C
Humidity *(ANSI C63.4-2014)*	5% to 90%	2%
Conducted Emissions (using a 50Ω/50µH + 5µH LISN)	0.09 MHz to 30 MHz	± 4.79 dB
Conducted Emissions (using a Voltage Probe)	0.15 MHz to 30 MHz	± 5.07 dB
Conducted Emissions (using a 50Ω/50µH LISN)	0.15 MHz to 30 MHz	± 4.35 dB
Radiated Emissions (Horizontal Polarisation)	30 MHz to 200 MHz	± 4.98 dB
Radiated Emissions (Vertical Polarisation)	30 MHz to 200 MHz	± 5.23 dB
Radiated Emissions (Horizontal Polarisation)	200 MHz to 1000 MHz	± 5.24 dB
Radiated Emissions (Vertical Polarisation)	200 MHz to 1000 MHz	± 5.92 dB
Radiated Emissions (STLP)	1 GHz to 6 GHz	± 5.14 dB
Radiated Emissions (STLP)	6 GHz to 18 GHz	± 6.11 dB
Radiated Emissions (SGH)	18 GHz to 26 GHz	± 6.11 dB
Radiated Emissions (SGH)	26 GHz to 40 GHz	± 6.11 dB

These uncertainties represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

The reference uncertainty standard specifies that although the measurement uncertainty shall be documented within the test report, the actual determination of compliance shall be based on measurements without considering the measurement uncertainty.

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10. AC CONDUCTED RF EMISSION MEASUREMENTS

Since the device is DC powered, this test is not applicable.

11. RADIATED RF EMISSION MEASUREMENTS

11.1. REQUIREMENTS

Frequency Range:	30 MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower.
Highest Operating Frequency:	1300 MHz
Measurement Distance:	3 metres
Limit:	FCC Part 15B (Class A) Limits

11.2. TEST EQUIPMENT

Asset No	Equipment	Model No	Serial No	Cal Due
937	ESR26 EMI Receiver	ESR26	101760	Aug 26
731	Biconical 0.03 - 0.2 GHz	VHBB 9124+BBA 9106	9124-1461	Jun 28
732	Log Periodic 0.2 - 7 GHz	USLP 9143 B	USLP 9143B 136	Jun 28
734	Log Periodic 1 - 18 GHz	STLP 9148	176	Nov 26
52	Pre-amp 40 dB	UTC10-212-1	9232SN02	Jul 26
278	Pre-amp 1 - 18 GHz	LA1018N4009	J1012090727001	Jul 26
760	iOATS (11 x 7 x 6 m)	CE-iOATS	2021	Jun 26
TER-S004	Measurement Software	RadiMation	Rev: 2024.1.4	-

11.3. ENVIRONMENTAL CONDITIONS

Environment	Typical Range	Actual
Temperature	15.5°C to 24°C	21.2°C
Humidity	15% to 60%	47%

11.4. PROCEDURE

In accordance with Compliance Engineering Test Procedure TP72.

Measurements were performed inside a semi-anechoic chamber at a distance of 3 m from the EUT. The EUT was supported 0.8 metres above the ground reference plane on a large polystyrene block, which in turn rested on top of a turntable.

The EUT was rotated 360° and the antenna height varied between 1 m and 4 m. The measuring antenna polarisation was rotated and measurements performed for horizontal and vertical antenna polarisations.

The receiver/spectrum analyser was configured to capture the highest peak emissions. Quasi-peak and or average detector measurements were performed at frequencies where peak emissions are close to or exceed the applicable limit.

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Plots of the accumulated measurement data, including all transducer correction factors were produced and stored to file.

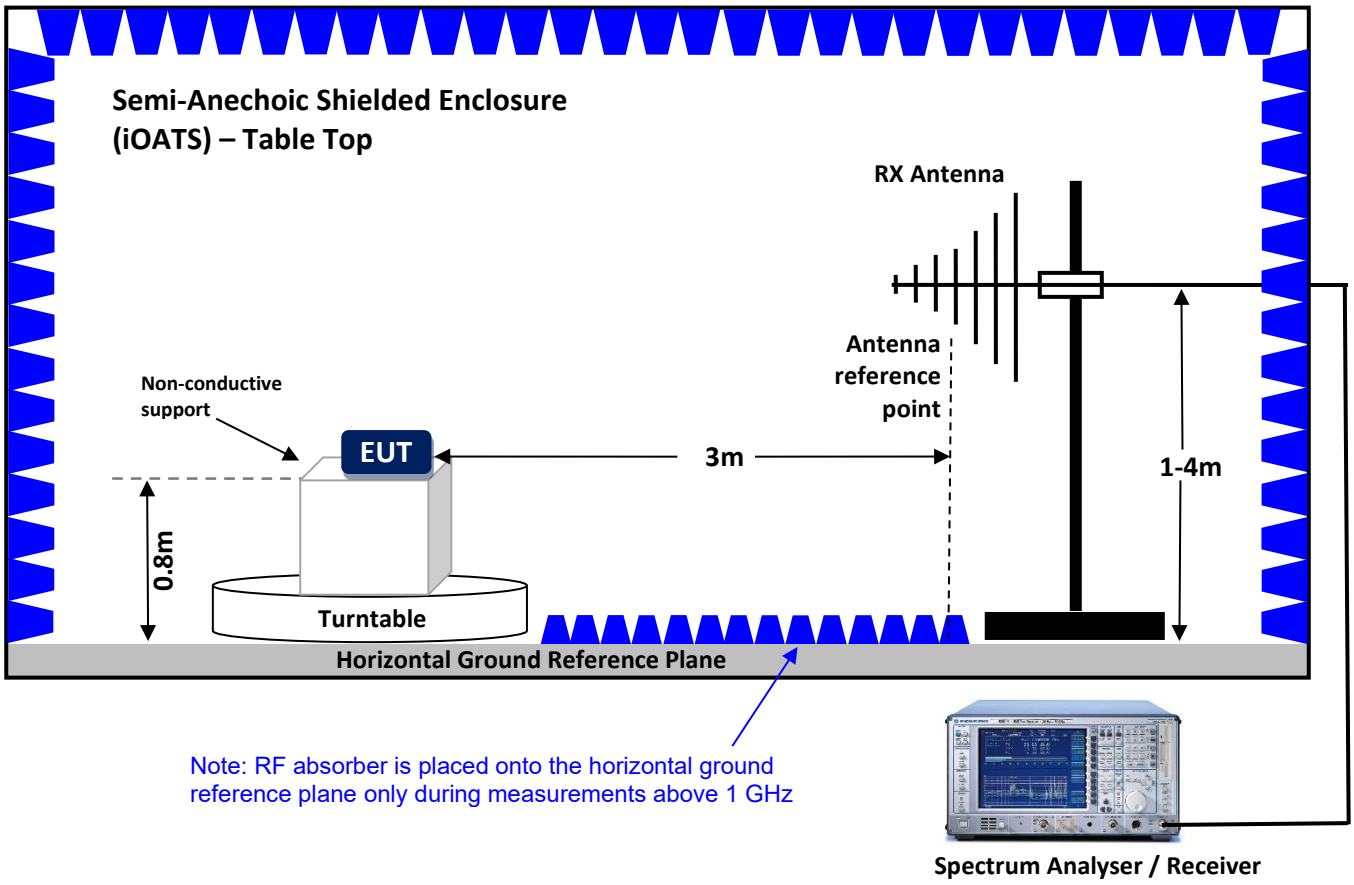
Measurements below 1 GHz:

RWB = 120 kHz, VBW = 3 x RBW

Measurements above 1 GHz:

RF absorber is placed on the ground reference plane between the EUT and the measuring antenna and its location size should allow the test site area comply with the CISPR 16-1-4 requirements.

RWB = 1 MHz (minimum), VBW = 3 x RBW



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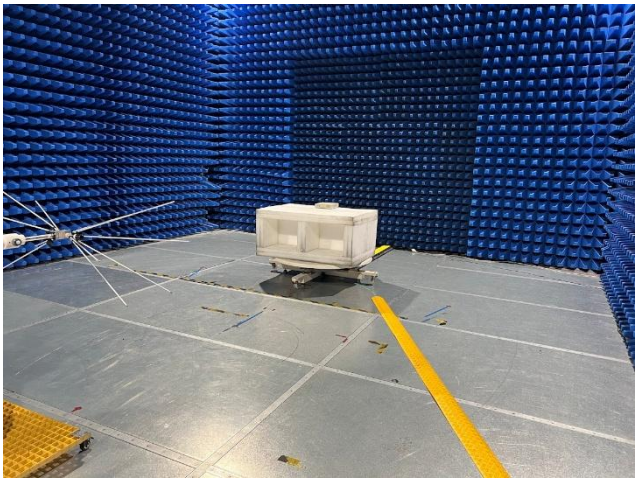
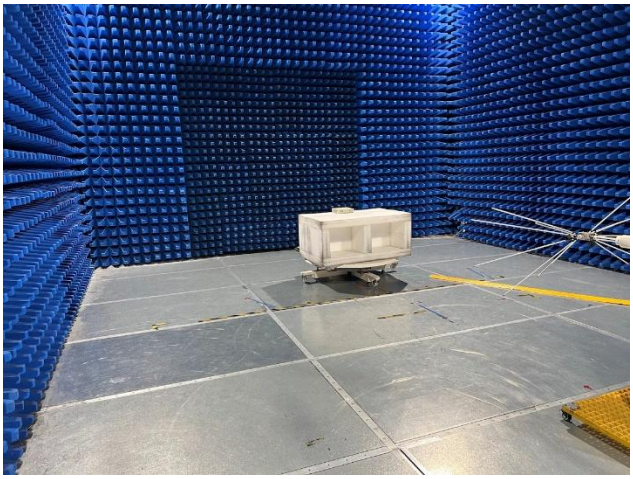
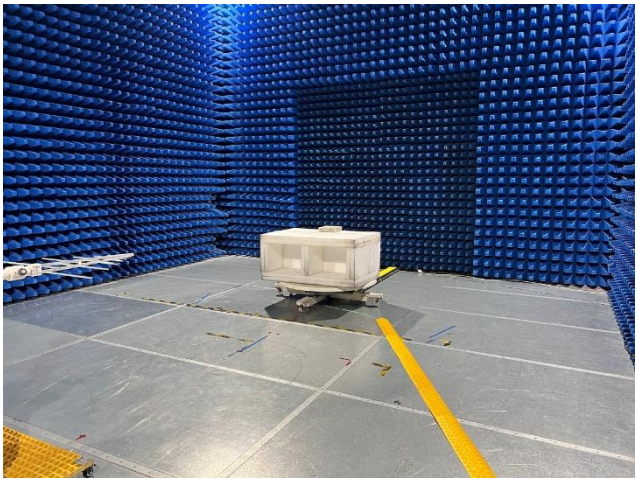
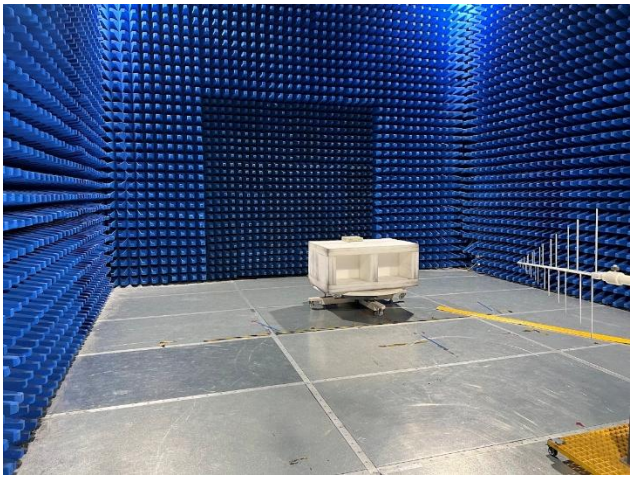
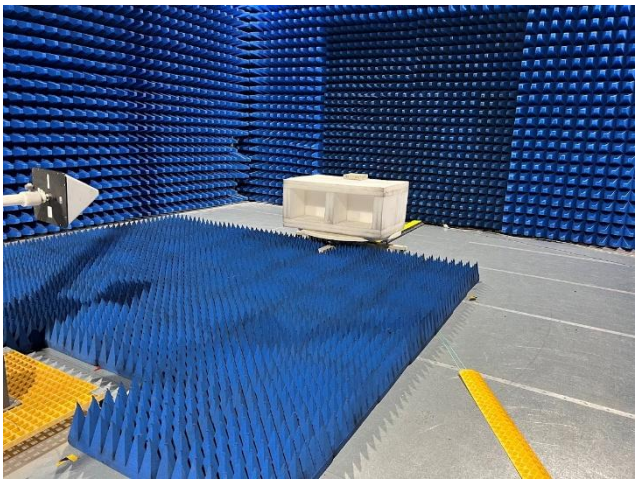
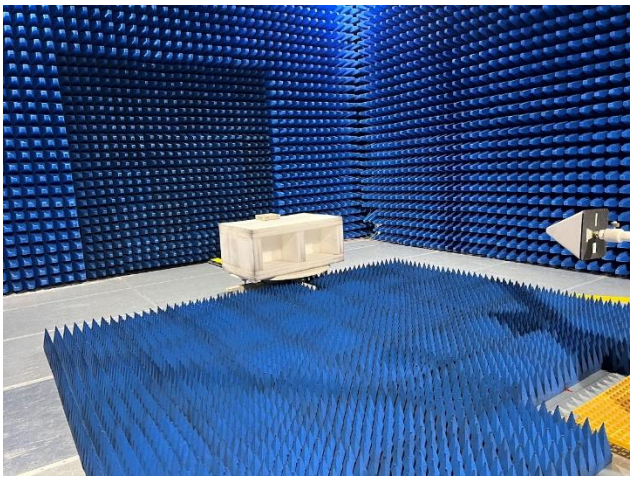

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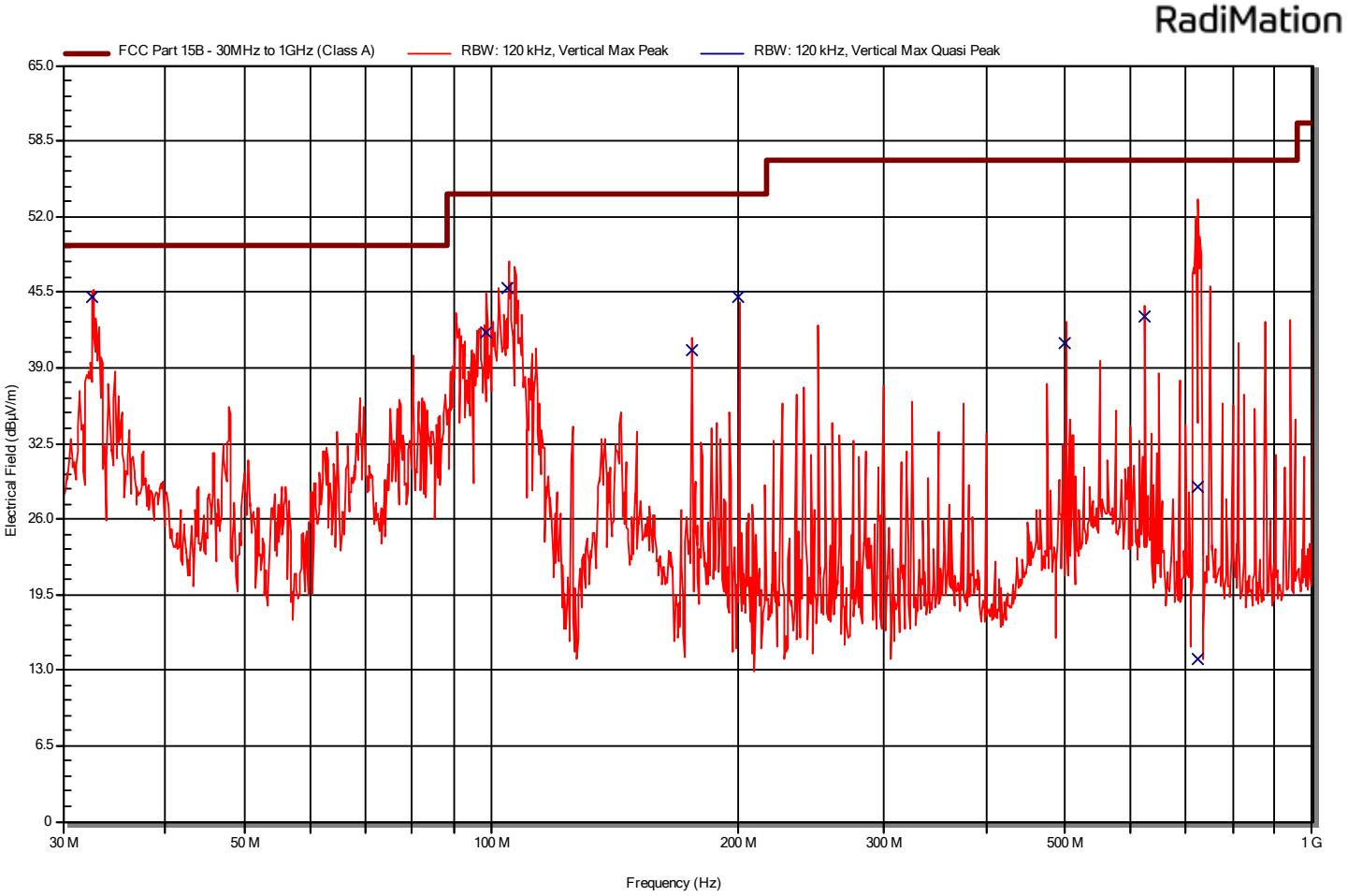
11.5. RESULTS

Radiated RF Emission Measurements – Vertical Polarisation – 30 MHz to 1GHz				
Frequency (MHz)	**Quasi-Peak (dBµV/m)**	**Quasi-Peak Limit (dBµV/m)**	**Delta Limit (dB)**	**Result**
32.611	45	49.5	**-4.5**	**Pass**
98.422	42	50	**-8.0**	**Pass**
104.73	45.9	50	**-4.1**	**Pass**
175.013	40.5	50	**-9.5**	**Pass**
199.996	45.1	50	**-4.9**	**Pass**
499.983	41.1	56.9	**-15.8**	**Pass**
625.005	43.5	56.9	**-13.4**	**Pass**
724.494	14	56.9	**-42.9**	**Pass**
725.013	28.7	56.9	**-28.2**	**Pass**



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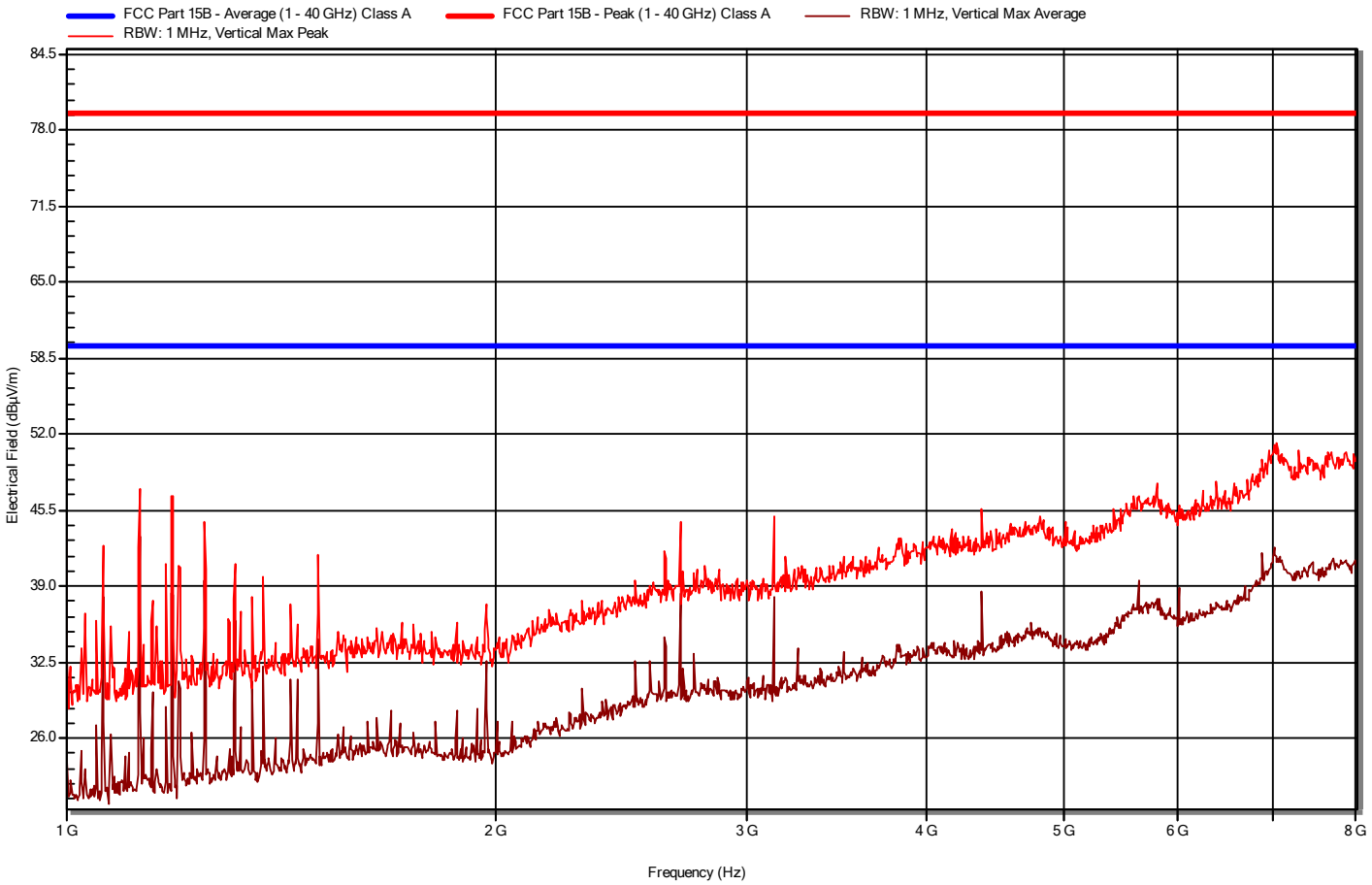
Radiated RF Emission Measurements – Vertical Polarisation - 1 to 8 GHz							
Frequency (GHz)	**Peak (dBµV/m)**	**Peak Limit (dBµV/m)**	**Pk Delta Limit (dB)**	**Average (dBµV/m)**	**Average Limit (dBµV/m)**	**AV Delta Limit (dB)**	**Result**
Peak and Average emissions were > 10 dB below the respective limits							**Pass**

RadiMation



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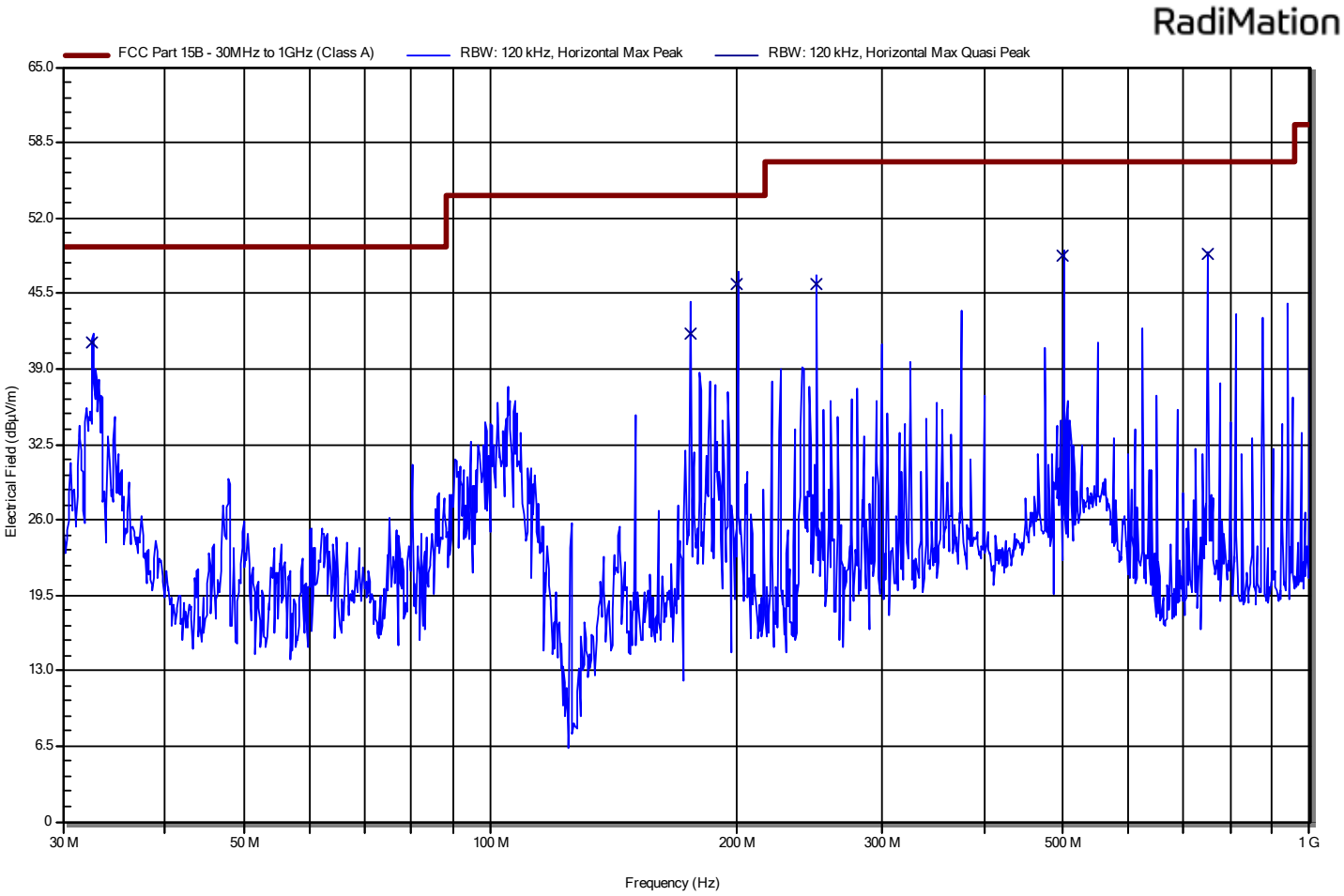
Radiated RF Emission Measurements – Horizontal Polarisation – 30 MHz to 1GHz				
Frequency (MHz)	**Quasi-Peak (dBµV/m)**	**Quasi-Peak Limit (dBµV/m)**	**Delta Limit (dB)**	**Result**
32.602	41.2	49.5	**-8.3**	**Pass**
175.026	42.1	50	**-7.9**	**Pass**
200.018	46.2	50	**-3.8**	**Pass**
250.004	46.4	56.9	**-10.5**	**Pass**
500.004	48.8	56.9	**-8.1**	**Pass**
750.006	48.9	56.9	**-8.0**	**Pass**



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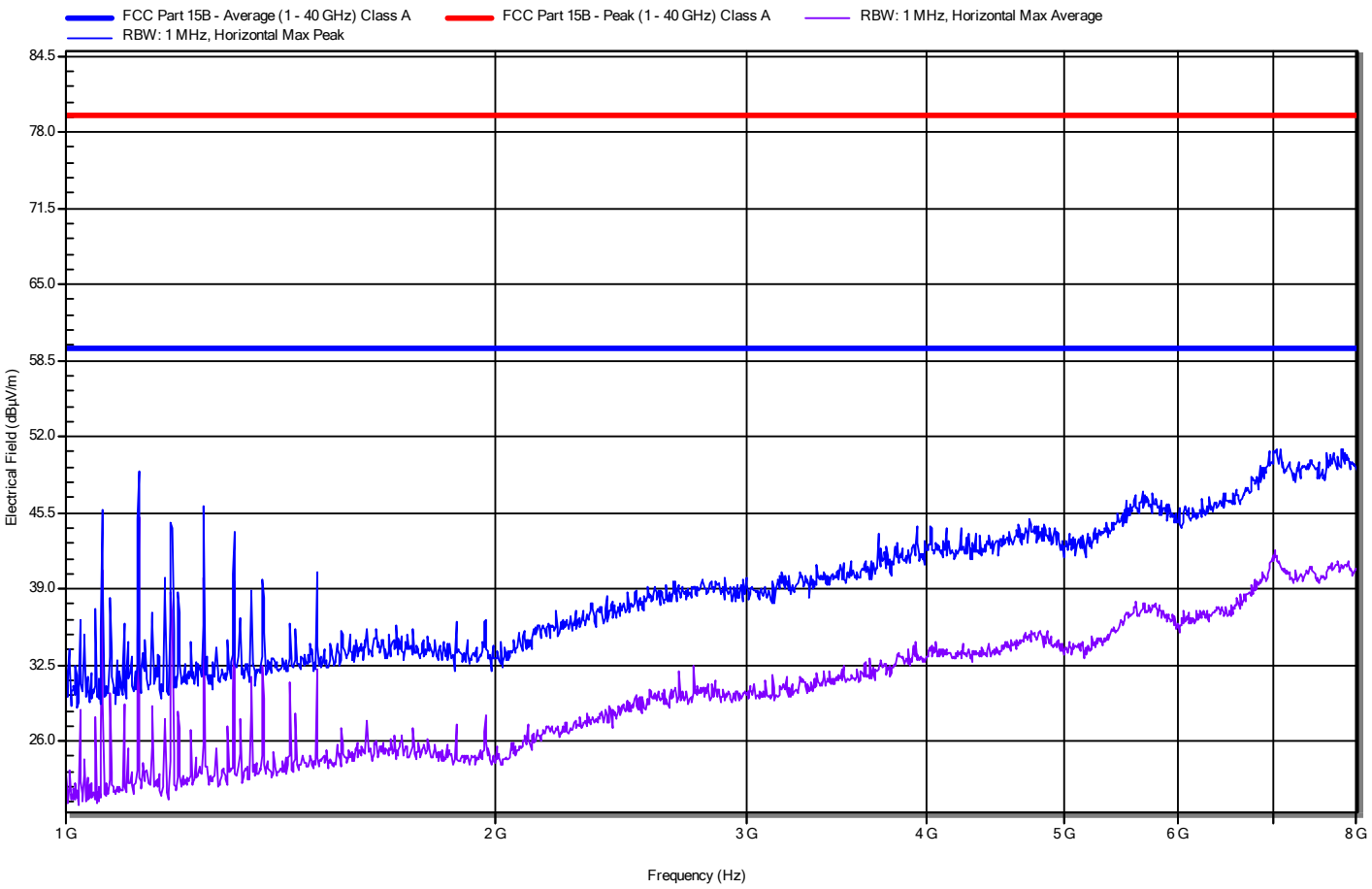
Radiated RF Emission Measurements – Horizontal Polarisation - 1 to 8 GHz							
Frequency (GHz)	**Peak (dBµV/m)**	**Peak Limit (dBµV/m)**	**Pk Delta Limit (dB)**	**Average (dBµV/m)**	**Average Limit (dBµV/m)**	**AV Delta Limit (dB)**	**Result**
Peak and Average emissions were > 10 dB below the respective limits							**Pass**



11.6. ASSESSMENT

The B0EMCB08 Real Time Ethernet (Model: PN912) complies with the CFR 47, Chapter 1, Subpart A, Part 15, Subpart B (Class A) limits radiated RF emission requirements.

12. CONCLUSION

The **B0EMCB08 Real Time Ethernet (Model: PN912)** complied with the radiated RF emission requirements detailed in CFR 47, Chapter 1, Subpart A, Part 15, Subpart B (Class A) limits.