



ELECTROMAGNETIC COMPATIBILITY TEST REPORT

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Laboratory Accreditations (per ISO/IEC 17025:2017)



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Manufacturer:

Blackline Safety Corp.

Address:

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Equipment Tested:

Wearable Multi-Gas Detector

Model Number(s):

G8C-01-NA2

blacklinesafety

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REPORT AUTHORIZATION

The data documented in this report is for the test equipment provided by the manufacturer. The tests were conducted on the sample equipment as requested by the manufacturer for the purpose of demonstrating compliance with the standards outlined in [Section II](#) of this report as agreed upon by the Manufacturer under the quote QAI-2074.

The Manufacturer is responsible for the tested product configurations, continued product compliance, and for the appropriate auditing of subsequent products as required. This report may comprise a partial list of tests that are required for FCC Certification, and ISED Certification. FCC and ISED will require a Supplier's Declaration of Conformity (SDoC) which can only be produced by the manufacturer. This is to certify that the following report is true and correct to the best of our knowledge.

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QAI EMC ACCREDITATION

QAI EMC is your one-stop regulatory compliance partner for electromagnetic compatibility (EMC) and electromagnetic interference (EMI). Products are tested to the latest and applicable EMC/EMI requirements for domestic and international markets. QAI EMC goes above and beyond being a testing facility—we are your regulatory compliance partner. QAI EMC has the capability to perform RF Emissions and Immunity for all types of electronics manufacturing including Industrial, Scientific, Medical, Information Technology, Telecom, Wireless, Automotive, Marine and Avionics.

EMC Laboratory Location	FCC Designation (3m SAC)	IC Registration (3m SAC)	A2LA Certificate
Burnaby, BC, Canada	CA9543	9543A	3657.02

EMC Facility Burnaby BC, Canada



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SECTION I: GENERAL INFORMATION

1.1 Product Description

G8 is a portable gas detector. G8 continuously measures gas concentrations in the ambient environment and activates notifications when concentrations exceed setpoints, allowing operators to respond quickly and safely to changes in their environment. The product architecture incorporates cellular radio, Bluetooth, NFC, and GNSS technology.

Equipment Under Test (EUT) Photos



EUT Information

EUT System	Description	Manufacturer	Model No.	Serial No.	Software/Firmware Version
1	Wearable Multi-Gas Detector	Blackline Safety	G8C-01-NA2	4020000053	0.001.000

Note: Highest frequency generated or tuned upon within the EUT is 2.4835GHz. 3 Wireless Modules are in the EUT.

NFC Transmitter/Receiver: 13.56 MHz (SDoC)

Cell LTE Module 665 to 1909.3 MHz FCC ID XPYUBX21BE02 ISED 8595A-UBX21BE02

BLE Bluetooth transmitter: 2.400 to 2.4835 GHz (Not Certified)

EUT Test Mode/Configuration/Operation During Testing

Test Mode	EUT Test Configuration/Operation
1	Battery mode with Alarm lights and speaker Active with all Transmitters ON
2	Charge Mode with Alarm lights and speaker Active with all Transmitters ON

Ancillary Equipment Information

System	Description	Manufacturer	Model No.	Serial No.
Power	I.T.E Power Supply adapter 100-240Vac 50/60Hz 0.3A to 5Vdc 1000mA USB Type B Cable	SHENZHEN SHI YING YUAN ELECTRONICS CO LTD	SAW06D- 050-1000UB	N/A
USB Hub	4 port USB Interface HUB Type A to Type A	LOGiX.ca	N/A	N/A
2.45GHz Transmitter Programming Interface	USB Type MICRO-USB to Ribbon Cable	Blackline Safety	N/A	N/A
Computer	QAI Laptop Computer	Lenovo Thinkpad	21MN- 005MUS	PF- 54VJMK

EUT Cabling Configuration

Port name	Connection Type / Connectors	Shielded	Ferrites	Length
USB power and Comm.'s port	Custom	Yes	No	0.5m

Related reference Test Reports:

- QA-3616-1 Blackline G8C-01-NA2_FCC-ISED_BLE – Test report of BLE transmitter
- QA-2236-2 Blackline G8C-01-NA2_FCC-ISED_NFC – Test report of NFC Tag Receiver

1.2 Environmental Conditions

The equipment under test was operated and tested under the following environmental conditions:

Parameter	Conditions
Location	Indoors
Temperature	22.9°C
Relative Humidity	39.9 %
Atmospheric Pressure	100.8 kPa

1.3 Measurement Uncertainty

Parameter	Uncertainty
Radiated Emissions, 10kHz-1GHz	± 2.40 dB
Radiated Emissions, 1GHz-40GHz	± 2.48 dB
Conducted Emissions, 10kHz to 40GHz	± 2.82 dB
Radio Frequency	±1.5 x 10 ⁻⁵ MHz
Total RF Power Conducted	±1.36 dB
Spurious Emissions, Conducted	±1.36 dB
RF Power Density, Conducted	±1.36 dB
Temperature	±1°C
Humidity	±5 %
DC and low frequency voltages	±3 %



1.4 Sample Calculations of Emissions Data

Radiated and conducted emissions were performed using EMC32 software developed by Rohde & Schwarz. Transducer factors like Antenna factors, Cable Losses and Amplifier gains were stored in the test templates which are used to perform the emissions measurements. After test is finished, data is generated from the EMC32 consisting of product details, emission plots and final data tables as shown below.

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Band width (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
31.0064	25.67	40.00	14.33	1000	120	315.0	H	161	4.0

Quasi-Peak reading shown in the table above is already corrected by the software using correction factor shown in column “Corr.” The correction factor listed under “Corr.” table calculated as:

$$\text{Corr. (dB)} = \text{Antenna factor} + \text{Cable loss}$$

Or

$$\text{Corr. (dB)} = \text{Antenna factor} + \text{Cable Loss} - \text{Amp gain (if pre-amplifier was used)}$$

The final Quasi peak reading shown in the data is calculated by the software using following equation:

$$\text{Corrected Quasi-Peak (dBμV/m)} = \text{Raw Quasi-Peak Reading} + \text{Antenna factor} + \text{Cable loss}$$

To obtain the final Quasi-Peak or Average reading during power line conducted emissions, transducer factors are included in the final measurement as shown below.

Frequency (MHz)	Quasi Peak (dBμV)	Average (dBμV)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.2410	---	23.71	52.06	28.35	1000.0	9.0	L1	GND	10.0
0.2411	38.98	---	62.06	23.08	1000.0	9.0	L1	GND	10.0

Quasi Peak or Average reading shown in above table is already corrected by the software using the correction factor shown in column “Corr.” The correction factor listed under “Corr.” table calculated as:

$$\text{Corr. (dB)} = \text{Antenna factor} + \text{Cable loss}$$

The final Quasi-peak or Average reading shown in the data is calculated by the software using following equation:

$$\text{Corr. Quasi-Peak/Average Reading (dBμV)} = \text{Raw Quasi-Peak/Average Reading} + \text{Antenna factor} + \text{Cable loss}$$

The allowable margin from the limits, as per the standards, were calculated for both radiated and conducted emissions:

$$\text{Margin (dB)} = \text{Limit} - \text{Quasi-Peak or Average reading}$$



1.5 Test Equipment List

The tables below contain all the equipment used by 'QAI Laboratories' in conducting all tests on the Equipment Under Test (EUT) as per Section I.

Emissions Test Equipment

	Manufacturer	Model	Description	Serial No.	S/W Version	Calibration Due Date
1	Com-Power Corporation	LI-220C	Line Impedance Stabilization Network (9kHz-30MHz)	20070025	N/A	2026-Jan-23
2	Sunol Sciences	SC 104V	Turntable Controller	042506-1	N/A	Indication Only
3	Sunol Sciences	SM46C	Turntable	071705-2	N/A	Indication Only
4	Maturo GmbH	BAM 4.0-P	Boresight Antenna Mast	365	3382.01	Indication Only
5	ETS Lindgren	S201	7-meter Semi-Anechoic Chamber	1030	N/A	Indication Only
6	Hewlett Packard	8447F	Amplifier (0.1-1300MHz)	1726A00566	N/A	Indication Only
7	Hewlett Packard	8449B	Preamplifier (1-26.5 GHz)	3008A00982	N/A	Indication Only
8	Microwave Lab	USMC10180	Low Noise Amplifier (0.1-18GHz)	001303JR0802 A2729	N/A	Indication Only
9	Keysight Technologies	N9038B	MXE EMI Receiver, Multi-touch	MY60180014	N/A	2026-Aug-22
10	ETS-Lindgren	3117	Horn, Double-Ridge Guide Ant, 1.0 - 18 GHz	75944	N/A	2026-Jan-25
11	Sunol Sciences	JB3	Biconilog Antenna (30MHz – 3GHz)	A120106	N/A	2026-Mar-28
12	California Instrument	PACS-1	Harmonics/Flicker Test System	72596	N/A	2028-Apr-2
13	California Instruments	OMNI 1-18i	Reference Impedance Network	7127	N/A	2028-Apr-2
14	California Instruments	3001i	AC Power Supply	52117	CTS3.0 v3.2.0.35	2028-Apr-2
15	TESEQ	ISN T800	Impedance Stabilization Network (150kHz – 30MHz)	27133	N/A	2026-Feb-08

Note: Equipment listed above have 3 years calibration interval.

Measurement Software List

	Manufacturer	Model	Version	Description
1	Rohde & Schwarz	EMC 32	10.35.10	Emissions Test Software



SECTION II: EXECUTIVE SUMMARY OF STANDARDS AND LIMITS

2.1 Applicable Emission Standards

ISED, FCC -Emissions

Test or Measurement	Applicable Standards	Description	Result
Radiated Emissions	ICES-003 Issue 7 CFR Title 47 FCC Part 15	The radiated emissions are measured in the 30-6000MHz range.	Comply
Conducted Emissions		The conducted emissions are measured in the 0.15 - 30.0 MHz range.	Comply

Method of Measurement:

For the radiated emissions, the Equipment under test (EUT) is positioned in the center of the turntable in the SAC. The Equipment under test (EUT) is then measured for all the radiated emissions using the spectrum analyzer and receiver using the appropriate antennas, amplifiers, attenuators, and filters.

The required Quasi-Peak CISPR bandwidth shall be 120 kHz for the range 30 – 1000 MHz and 1 MHz for the frequency above 1GHz. The ANSI C63.4 requirement for the placement of RF Absorber on the turntable Ground Plane shall be satisfied.

Emissions in both horizontal and vertical polarizations were measured while rotating the Equipment Under Test (EUT) on the turntable to maximize signal strength and the limit is adjusted as per the equation below. The result is added or subtracted to the required emission level to ensure compliance at the new distance.

$$20 \log \left(\frac{D1}{D2} \right); \quad \text{Where } D1 = \text{Current Distance} \\ D2 = \text{Required Distance}$$



2.2 Applicable Radiated Emission Limits

CFR Title 47 FCC Part 15- Class B

Frequency (MHz)	Field Strength Quasi Peak-Class B		Result
	(dBμV/m @ 3m SAC)	(dBμV/m @ 10m OATS)	
30 – 88	40.0	29.5	Comply (Upper frequency: 18GHz)
88 – 216	43.5	33.1	
216 – 960	46.0	35.6	
Above 960	54.0	43.5	
Note 1: The lower limit shall apply at the transition frequency.			
Note 2: Additional provisions may be required for cases where interference occurs.			

ICES-003 Issue 7 – Class B

Frequency (MHz)	Field Strength Quasi Peak – Class B		Result
	(dBµV/m @ 3m SAC)	(dBµV/m @ 10m OATS)	
30 – 88	40.0	30.0	Comply
88 – 216	43.5	33.1	
216 – 230	46.0	35.6	
230 – 960	47.0	37.0	
960 – 1000	54.0	43.5	
Frequency (GHz)	Maximum Field Strength (dBµV/m)		Result
	Peak	Average	
1-40	74.0	54.0	Comply (Upper frequency: 18GHz)
Note 1: The lower limit shall apply at the transition frequency.			
Note 2: Additional provisions may be required for cases where interference occurs.			

2.3 Applicable Conducted Emission Limits

CE/ FCC/ISED for above standards – Class B

Frequency (MHz)	Conducted Limit (dBμV) – Class B		Result
	Quasi-Peak	Average	
0.15 – 0.50	66.0 to 56.0	56.0 to 46.0	Comply
0.50 – 5	56.0	46.0	
5 – 30	60.0	50.0	
Note 1: The lower limit shall apply at the transition frequencies.			
Note 2: The limit decreases linearly with the logarithm of the frequency in the 0.15 to 0.50 MHz			



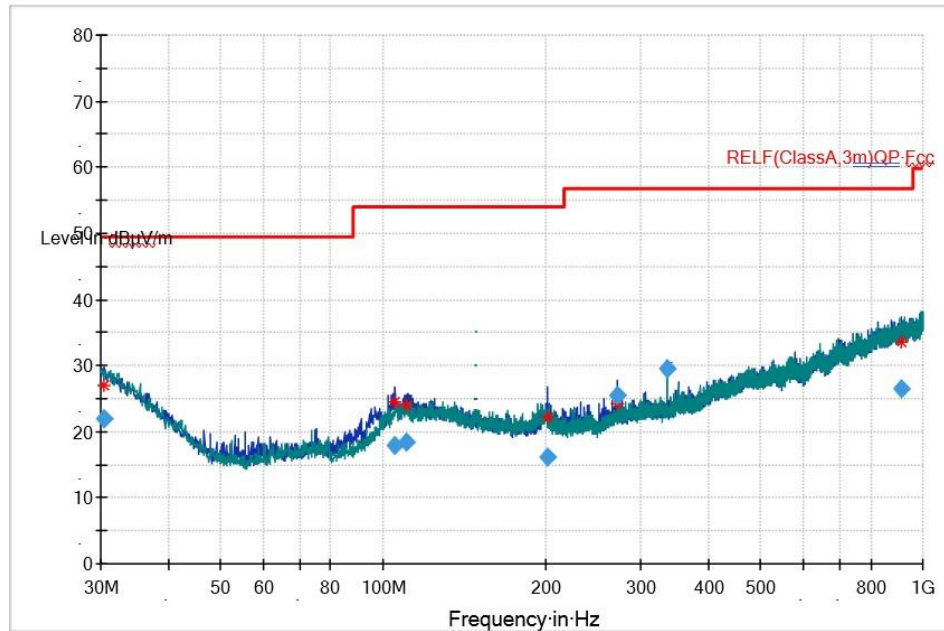
SECTION III: DATA & TEST RESULTS

3.1 Radiated Emissions

- **Date Performed:**
November 18, 2025
- **Test Standard:**
As per [Section 2.1](#) of this report
- **Required Limit:**
As per [Section 2.2](#) of this report
- **Test Method:**
As per [Section 2.1](#) of this report
- **Modifications:**
No modification were required.
- **Result:**
The EUT **complies** with the standard.

Measurement Data and Plots:

- Test Standard: FCC 15.109, and ICES-003
- Class: A
- EUT input voltage: 120V 60Hz – into AC/DC Power Adapter during Charge Mode
- Frequency Range: 30MHz to 1GHz
- Test mode: 2



Plot 1: Radiated Emissions at 3m SAC – FCC/ISED Class A Mode 2

Class A limit line for reference only.

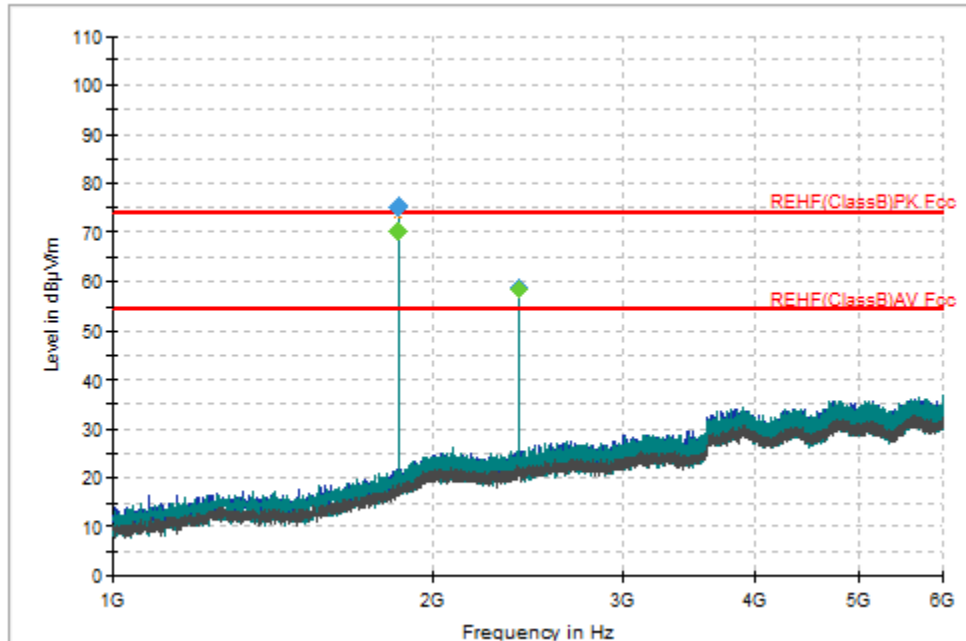
Table 1: Quasi Peak Data of Radiated Emissions at 3m SAC – FCC/ISED Class B Mode 2

Frequency (MHz)	Quasi Peak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Band width (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
30.4938	22.00	40.00	18.00	1000.0	120.0	300.0	H	149	-1.1
105.3359	17.99	43.50	25.51	1000.0	120.0	123.0	H	156	-9.3
110.6527	18.51	43.50	24.99	1000.0	120.0	145.0	H	283	-8.3
201.4661	16.04	43.50	27.46	1000.0	120.0	260.0	H	187	-8.7
271.9682	25.52	46.00	20.48	1000.0	120.0	100.0	H	132	-7.8
335.9870	29.45	46.00	16.55	1000.0	120.0	100.0	H	348	-6.9
914.7676	26.40	46.00	19.60	1000.0	120.0	150.0	H	290	3.8

Notes:

- 1) Testing was investigated in both Battery mode and Charge mode with all Transmitters in continuous transmission. The above data is the worst case mode during Charge mode of operation.
- 2) Bluetooth transmitter set for GFSK at 2.402GHz continuous transmission.
- 3) Cell Transmitter set of 1.850GHz
- 4) NFC transmitter set for continuous transmission at 13.56MHz

- Test Standard: FCC 15.109, ICES-003 or EN55032 or other standards
- Class: A or B
- EUT input voltage: 120V 60Hz – into AC/DC Power Adapter during Charge Mode
- Frequency Range: 1GHz to 6GHz
- Test mode: 1



Plot 2: Radiated Emissions at 3m SAC- FCC/ISED Class B Mode 2

Table 2: Peak and Average Data of Radiated Emissions at 3m SAC - FCC/ISED Class B Mode 2

Frequency (MHz)	Max. Peak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Band width (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1849.4120	75.22	---	74.00	-1.22	1000.0	1000.0	191.0	V	318	-1.2
1849.8340	---	69.97	54.00	-15.97	1000.0	1000.0	182.0	V	318	-1.2
2401.8280	58.62	---	74.00	15.38	1000.0	1000.0	293.0	H	284	0.1
2401.9140	---	58.22	54.00	-4.22	1000.0	1000.0	300.0	H	285	0.1

Notes:

- 1) Testing was investigated in both Battery mode and Charge mode with all Transmitters in continuous transmission. The above data is the worst case mode during Charge mode of operation.
- 2) Bluetooth transmitter set for GFSK at 2.402GHz continuous transmission.
- 3) Cell Transmitter set of 1.850GHz
- 4) NFC transmitter set for continuous transmission at 13.56MHz

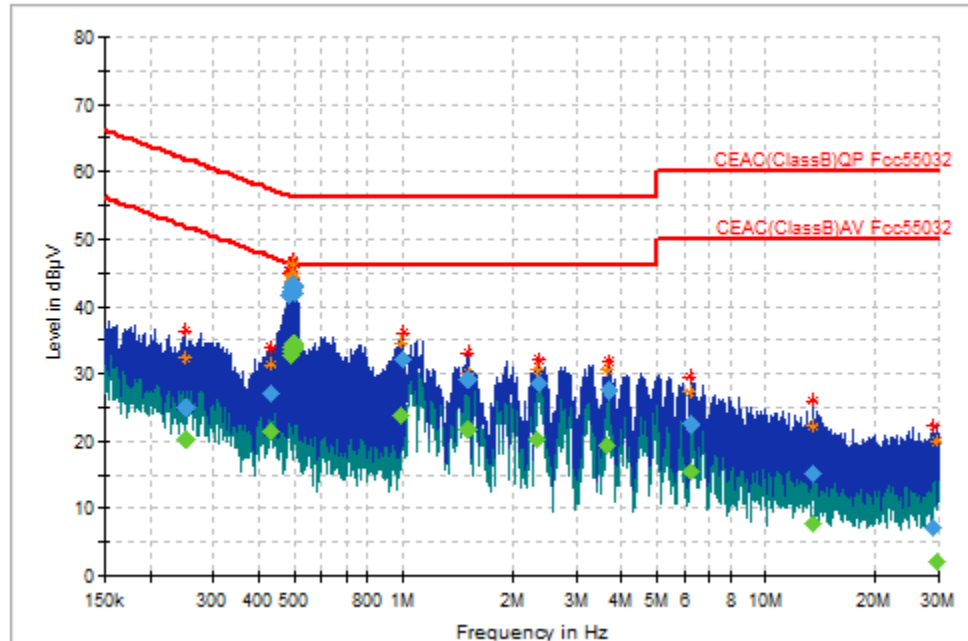


3.2 AC Mains Conducted Emissions

- **Date Performed:**
November 17, 2025
- **Test Standard:**
As per [Section 2.1](#) of this report
- **Required Limit:**
As per [Section 2.3](#) of this report
- **Test Method:**
As per [Section 2.1](#) of this report
- **Modifications:**
No modification was required.
- **Result:**
The EUT **complies** with the standard.

Measurement Data and Plot:

- Test Standard: FCC 15.107 and ICES-003
- Class: B
- EUT input voltage: 120V 60Hz – into AC/DC Power Adapter during Charge Mode
- Frequency Range: 150kHz to 30MHz
- Test mode: 2
- Port under test: AC



Plot 3: Conducted Emissions – FCC/ISED Class B Mode 2– Line 1

Table 3: Quasi-Peak and Average Data of Conducted Emissions– FCC/ISED Class B Mode 2 – Line 1

Frequency (MHz)	Quasi Peak (dBμV)	Average (dBμV)	Limit (dBμV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.2529	24.86	---	61.66	36.80	1000.0	9.0	L1	GND	10.0
0.2530	---	20.21	51.66	31.45	1000.0	9.0	L1	GND	10.0
0.4324	27.09	---	57.21	30.12	1000.0	9.0	L1	GND	10.0
0.4325	---	21.42	47.21	25.79	1000.0	9.0	L1	GND	10.0
0.4883	41.58	---	56.20	14.62	1000.0	9.0	L1	GND	10.0
0.4895	42.04	---	56.18	14.13	1000.0	9.0	L1	GND	10.0
0.4896	---	32.73	46.18	13.45	1000.0	9.0	L1	GND	10.0
0.4914	42.70	---	56.14	13.44	1000.0	9.0	L1	GND	10.0
0.4915	---	33.31	46.14	12.83	1000.0	9.0	L1	GND	10.0
0.4926	42.85	---	56.13	13.27	1000.0	9.0	L1	GND	10.0
0.4926	---	33.78	46.13	12.35	1000.0	9.0	L1	GND	10.0
0.4937	---	33.87	46.11	12.23	1000.0	9.0	L1	GND	10.0
0.4943	43.34	---	56.10	12.75	1000.0	9.0	L1	GND	10.0

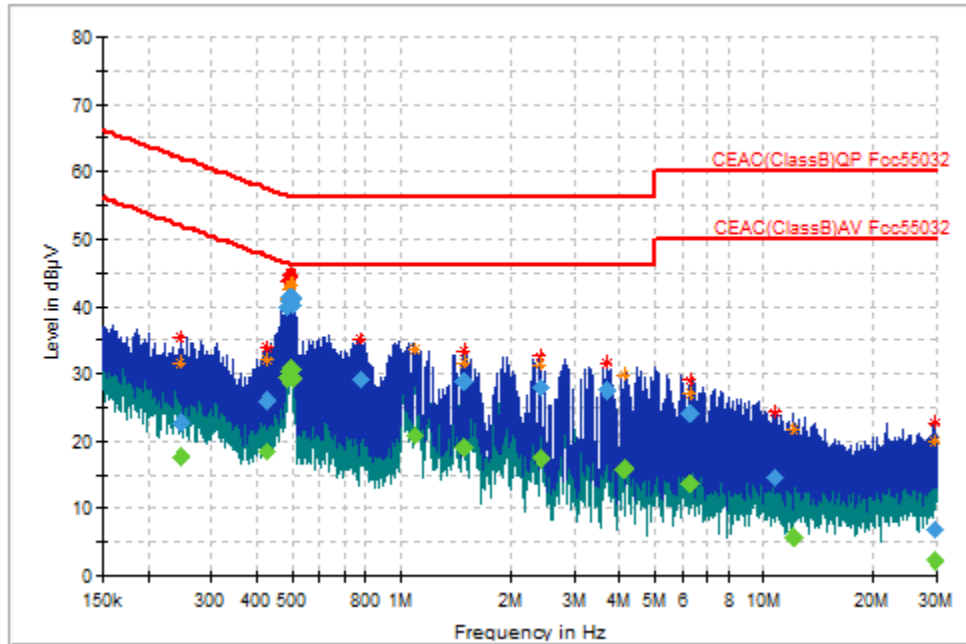
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0.4960	43.48	---	56.07	12.59	1000.0	9.0	L1	GND	10.0
0.4960	---	34.43	46.07	11.63	1000.0	9.0	L1	GND	10.0
0.4979	43.46	---	56.04	12.58	1000.0	9.0	L1	GND	10.0
0.4980	---	34.35	46.03	11.68	1000.0	9.0	L1	GND	10.0
0.4992	---	34.21	46.01	11.80	1000.0	9.0	L1	GND	10.0
0.4997	---	34.21	46.01	11.80	1000.0	9.0	L1	GND	10.0
0.5009	---	33.90	46.00	12.10	1000.0	9.0	L1	GND	10.0
0.5010	43.09	---	56.00	12.91	1000.0	9.0	L1	GND	10.0
0.5021	---	33.49	46.00	12.51	1000.0	9.0	L1	GND	10.0
0.5023	42.60	---	56.00	13.40	1000.0	9.0	L1	GND	10.0
0.5039	41.87	---	56.00	14.13	1000.0	9.0	L1	GND	10.0
0.9963	---	23.63	46.00	22.37	1000.0	9.0	L1	GND	10.0
0.9992	31.97	---	56.00	24.03	1000.0	9.0	L1	GND	10.0
1.5075	29.00	---	56.00	27.00	1000.0	9.0	L1	GND	10.1
1.5075	---	21.64	46.00	24.36	1000.0	9.0	L1	GND	10.1
2.3485	---	20.20	46.00	25.80	1000.0	9.0	L1	GND	10.1
2.3688	28.52	---	56.00	27.48	1000.0	9.0	L1	GND	10.1
3.6506	---	19.37	46.00	26.63	1000.0	9.0	L1	GND	10.2
6.1823	22.51	---	60.00	37.49	1000.0	9.0	L1	GND	10.3
6.1852	---	15.43	50.00	34.57	1000.0	9.0	L1	GND	10.3
13.4410	---	7.94	50.00	42.06	1000.0	9.0	L1	GND	10.5
13.4410	15.17	---	60.00	44.83	1000.0	9.0	L1	GND	10.5
29.1996	6.95	---	60.00	53.05	1000.0	9.0	L1	GND	11.3
29.5998	---	1.98	50.00	48.02	1000.0	9.0	L1	GND	11.3

Notes:

- 1) Testing was investigated in both Battery mode and Charge mode with all Transmitters in continuous transmission. The above data is the worst case mode during Charge mode of operation.
- 2) Bluetooth transmitter set for GFSK at 2.402GHz continuous transmission.
- 3) Cell Transmitter set of 1.850GHz
- 4) NFC transmitter set for continuous transmission at 13.56MHz



Plot 4: Conducted Emissions – FCC/ISED Class B Mode 2– Line 2

Table 4: Quasi-Peak and Average Data of Conducted Emissions– FCC/ISED Class B Mode 2 – Line 2

Frequency (MHz)	Quasi Peak (dBµV)	Average (dBµV)	Limit (dBµV/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.2455	22.71	---	61.91	39.20	1000.0	9.0	L1	GND	10.0
0.2455	---	17.75	51.91	34.16	1000.0	9.0	L1	GND	10.0
0.4275	25.99	---	57.30	31.31	1000.0	9.0	L1	GND	10.0
0.4276	---	18.47	47.30	28.83	1000.0	9.0	L1	GND	10.0
0.4889	---	29.31	46.19	16.88	1000.0	9.0	L1	GND	10.0
0.4889	39.86	---	56.19	16.33	1000.0	9.0	L1	GND	10.0
0.4900	---	29.46	46.17	16.71	1000.0	9.0	L1	GND	10.0
0.4902	40.11	---	56.17	16.06	1000.0	9.0	L1	GND	10.0
0.4914	40.54	---	56.14	15.61	1000.0	9.0	L1	GND	10.0
0.4915	---	29.88	46.14	16.26	1000.0	9.0	L1	GND	10.0
0.4922	40.72	---	56.13	15.41	1000.0	9.0	L1	GND	10.0
0.4934	41.01	---	56.11	15.10	1000.0	9.0	L1	GND	10.0
0.4937	---	30.40	46.11	15.70	1000.0	9.0	L1	GND	10.0
0.4945	41.27	---	56.09	14.82	1000.0	9.0	L1	GND	10.0
0.4947	---	30.43	46.09	15.66	1000.0	9.0	L1	GND	10.0
0.4959	41.41	---	56.07	14.66	1000.0	9.0	L1	GND	10.0
0.4960	---	30.82	46.07	15.24	1000.0	9.0	L1	GND	10.0
0.4982	---	30.74	46.03	15.29	1000.0	9.0	L1	GND	10.0
0.4988	41.21	---	56.02	14.81	1000.0	9.0	L1	GND	10.0
0.4996	41.23	---	56.01	14.78	1000.0	9.0	L1	GND	10.0
0.4997	---	30.56	46.01	15.44	1000.0	9.0	L1	GND	10.0

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0.5005	---	30.45	46.00	15.55	1000.0	9.0	L1	GND	10.0
0.5032	40.15	---	56.00	15.85	1000.0	9.0	L1	GND	10.0
0.5032	---	29.36	46.00	16.64	1000.0	9.0	L1	GND	10.0
0.7749	28.92	---	56.00	27.08	1000.0	9.0	L1	GND	10.0
1.0928	---	20.81	46.00	25.19	1000.0	9.0	L1	GND	10.0
1.4872	28.89	---	56.00	27.11	1000.0	9.0	L1	GND	10.1
1.4872	---	18.81	46.00	27.19	1000.0	9.0	L1	GND	10.1
2.4152	27.93	---	56.00	28.07	1000.0	9.0	L1	GND	10.1
2.4297	---	17.30	46.00	28.70	1000.0	9.0	L1	GND	10.1
3.7057	27.39	---	56.00	28.61	1000.0	9.0	L1	GND	10.2
4.1030	---	15.91	46.00	30.09	1000.0	9.0	L1	GND	10.2
6.2925	23.85	---	60.00	36.15	1000.0	9.0	L1	GND	10.3
6.2925	---	13.65	50.00	36.35	1000.0	9.0	L1	GND	10.3
10.7527	14.71	---	60.00	45.29	1000.0	9.0	L1	GND	10.4
12.0954	---	5.80	50.00	44.20	1000.0	9.0	L1	GND	10.5
29.6259	6.77	---	60.00	53.23	1000.0	9.0	L1	GND	11.3

Notes:

- 1) Testing was investigated in both Battery mode and Charge mode with all Transmitters in continuous transmission. The above data is the worst case mode during Charge mode of operation.
- 2) Bluetooth transmitter set for GFSK at 2.402GHz continuous transmission.
- 3) Cell Transmitter set of 1.850GHz
- 4) NFC transmitter set for continuous transmission at 13.56MHz

Appendix A: TEST SETUP PHOTOS

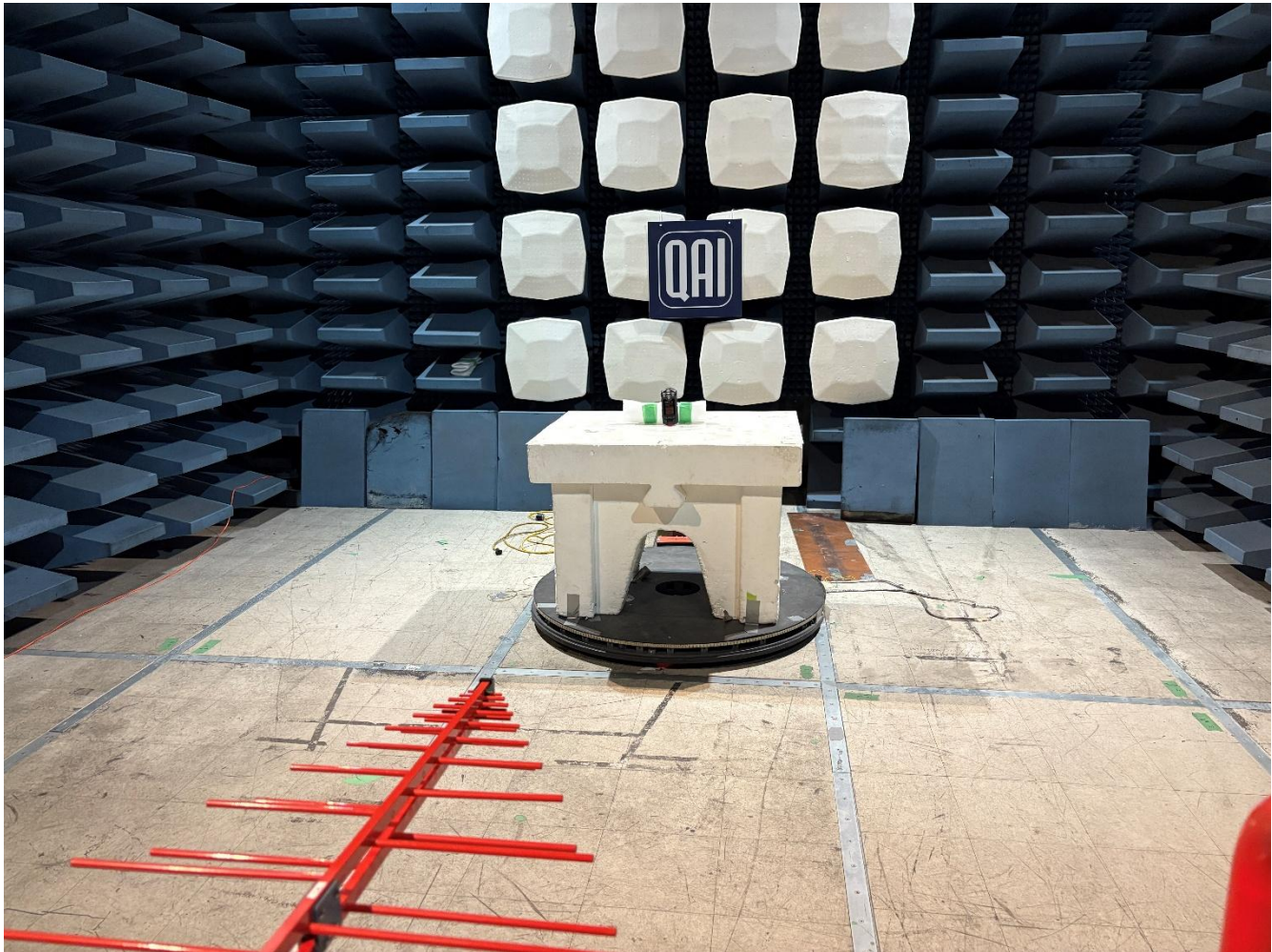


Figure 1: Radiated Emissions – 30MHz to 1GHz

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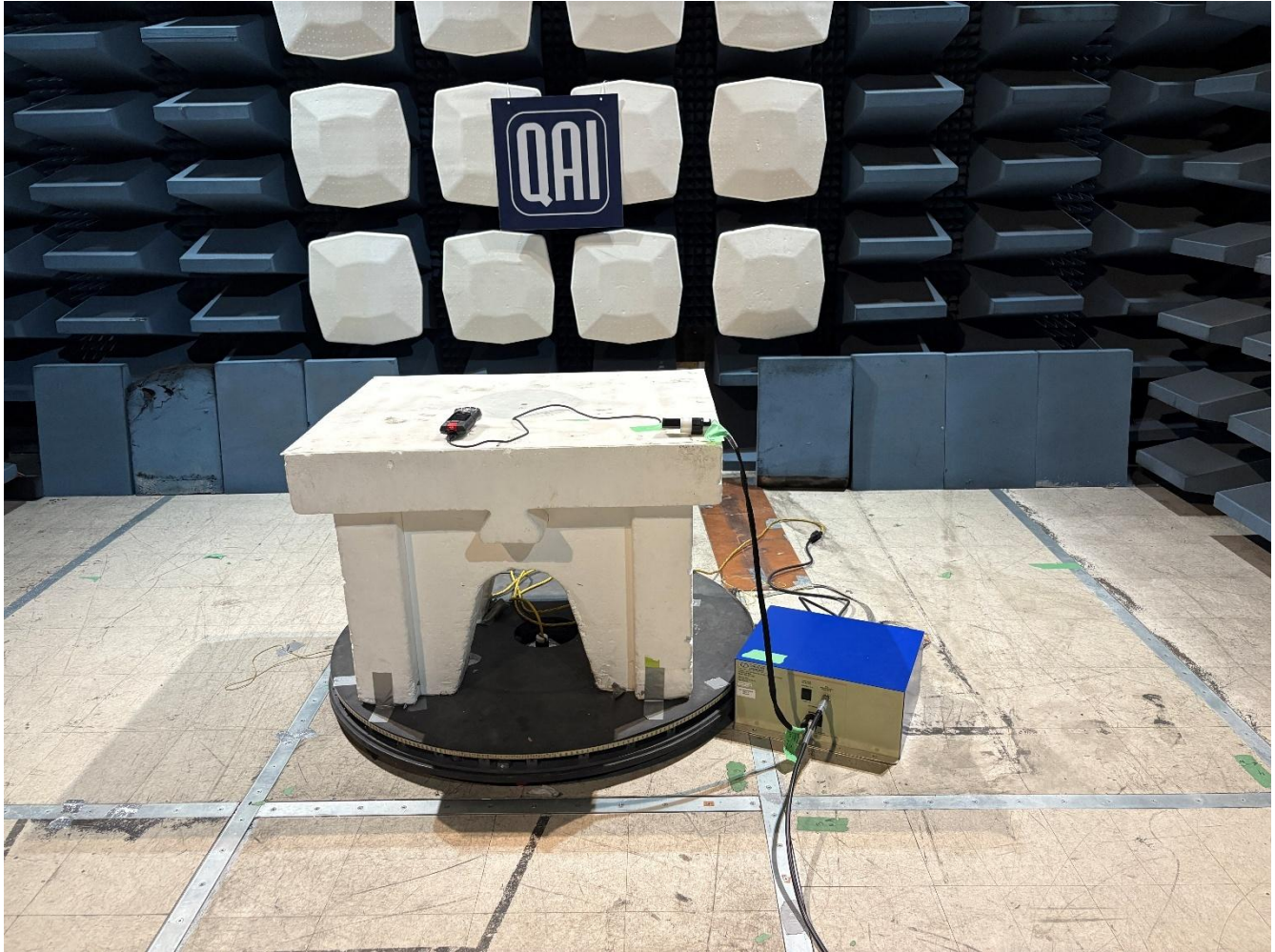


Figure 2: AC Mains Conducted Emissions – 150kHz to 30MHz

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Appendix B: ABBREVIATIONS

Abbreviation	Definition
AC	Alternating Current
AM	Amplitude Modulation
ASW	Anti-Submarine Warfare
BIT	Built-in-Test
CE	European Conformity
CISPR	Comité International Spécial des Perturbations Radioélectriques (International Special Committee on Radio Interference)
DC	Direct Current
EFT	Electrical Fast Transient
EMC	Electro Magnetic Compatibility
EMI	Electro Magnetic Interference
ERP	Effective Radiated Power
ESD	Electrostatic Discharge
EUT	Equipment Under Test
FCC	Federal Communications Commission
FVIN	Firmware Version Identification Number FVIN
GFE	Government Furnished Equipment
IC	Industry Canada
ICES	Interference Causing Equipment Standard
IEC	International Electrotechnical Commission
LISN	Line Impedance Stabilizing Network
OATS	Open Area Test Site
RF	Radio Frequency
RMS	Root-Mean-Square
SAC	Semi-Anechoic Chamber
TEM	Transverse Electromagnetic
TPD	Terminal Protection Device

END OF REPORT

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