

Prüfbericht-Nr.: <i>Test report no.:</i>	60443732 004	Auftrags-Nr.: <i>Order no.:</i>	168266574	Seite 1 von 14 <i>Page 1 of 14</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2020-05-15	
Auftraggeber: <i>Client:</i>	Sensitech Inc. 800 Cummings Center Suite 258X, Beverly MA 01915-6197 USA			
Prüfgegenstand: <i>Test item:</i>	Quarterback Gateway			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	T11012860			
Auftrags-Inhalt: <i>Order content:</i>	FCC Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart B Section 15.107 CFR47 FCC Part 15: Subpart B Section 15.109			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2020-05-15	Please refer to photo documents		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A002920612-002			
Prüfzeitraum: <i>Testing period:</i>	2020-11-02 - 2021-01-12			
Ort der Prüfung: <i>Place of testing:</i>	Shenzhen UnionTrust Quality and Technology Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TUV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2022-06-29	Ausstellungsdatum: <i>Issue date:</i> 2022-06-29			
Stellung / Position	Project Manager	Stellung / Position	Review er	
Sonstiges / Other:	FCC ID: SRMT11012860			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i>			
Legende: 1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n) Legend: 1 = very good P(ass) = passed a.m. test specifications(s)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n) 2 = good 3 = satisfactory F(ail) = failed a.m. test specifications(s)	3 = befriedigend 4 = ausreichend N/A = nicht anwendbar 4 = sufficient N/A = not applicable	5 = mangelhaft N/T = nicht getestet 5 = poor N/T = not tested	
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Test Summary

5.1.1 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

5.1.2 RADIATED EMISSIONS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results.

2 Test Sites

2.1 Test Facilities

Shenzhen UnionTrust Quality and Technology Co., Ltd.

16/F, Block A, Building 6, Baoneng Science and Technology Park, Qingxiang Road No. 1,
Longhua New District, Shenzhen, China

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radiated Emission				
Equipment	Manufacturer	Model	Serial No.	Cal. until
3M Chamber & Accessory Equipment	ETS-LINDGREN	3M	N/A	2021-12-03
Receiver	R&S	ESIB26	100114	2021-11-22
Broadband Antenna	ETS-LINDGREN	3142E	00201566	2021-11-14
6dB Attenuator	Talent	RA6A5-N-18	18103001	2021-11-14
Preamplifier	HP	8447F	2805A02960	2021-11-14
Horn Antenna (Pre-amplifier)	ETS-LINDGREN	3117-PA	00201874	2021-05-29
Conducted Emission on AC Mains				
Equipment	Manufacturer	Model No.	Serial No.	Cali. until
EMI Test Receiver	R&S	ESR7	1316.3003K07-101181-K3	2021-11-21
Artificial Mains Network	R&S	3816/2SH	00201088	2021-11-21
Artificial Mains Network	ETS-Lindgren	ESH2-Z5	860014/024	2021-11-21
Pulse Limiter	R&S	ESH3-Z2	0357.8810.54	2021-11-21
Test Software	Audix	e3	9.160323	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Parameter	Uncertainty
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	±3.2 dB / ±2.7 dB
Radiated Emission (3m SAC), 30MHz to 1000MHz	± 4.52 dB
Radiated Emission (3m SAC), above 1000MHz	± 4.37 dB
Temperature	±1 °C
Humidity	±5 %

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2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. file for certification follow-up purposes.

2.7 Status of Facility Used for Testing

The Shenzhen UnionTrust Quality and Technology Co., Ltd. Test facility located at **Error! Reference source not found.** is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The T11012860 is a tracking device, it supports LTE-M/NB-IoT/2G GSM Quad band, 2.4GHz WiFi and 915MHz wireless technology.

This report is only for EMC requirements.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Quarterback Gateway
Type Designation	T11012860
FCC ID	SRMT11012860
Operating Voltage	12 / 24V DC car Charger AC/DC Adapter Rechargeable Battery (4.2V)
Testing Voltage	AC/DC Adapter Rechargeable Battery (4.2V)

Technical Specification FHSS	
Frequency Range	902.306 - 922.396MHz
Channel Number	50 channels
Channel Separation	410 KHz
Technical Specification WiFi	
Frequency Range	2412-2462MHz
Channel Number	11 channels
Channel Separation	5MHz
Technical Specification LTE-M/NB-IoT/2G GSM	
Frequency Range	GSM 850/1900, LTE Cat M1 Band 2/4/5/12/13/26, NB-IoT Band 2/5/12/13/26

Refer to related report for detail wireless specification.

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3.3 Independent Operation Modes

The basic operation modes are:

- A. On, Normal Operation (Radio Link)
- B. Data transfer with PC

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- ID Label and Location Info
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.4: 2014.

4.3 Special Accessories and Auxiliary Equipment

Table 3: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N	Rating
Sensor	Sensitech Inc.	T11012860	N/A	

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

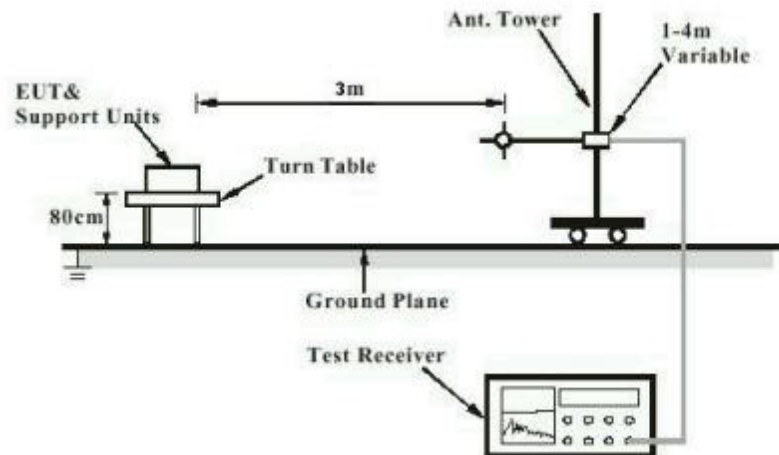


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

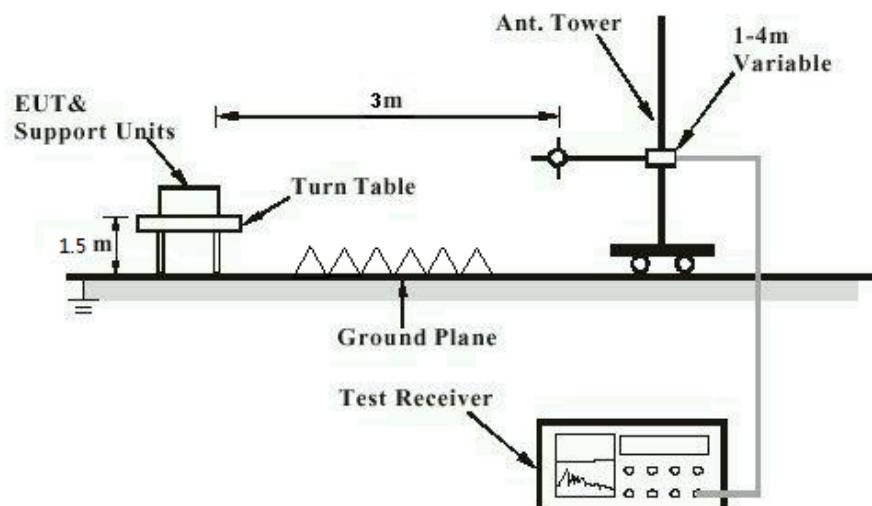
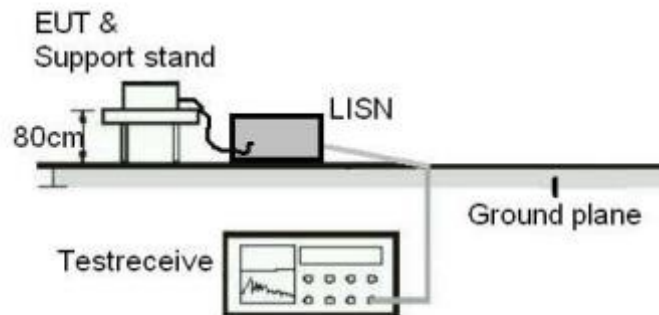


Diagram of Measurement Configuration for Mains Conduction Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Conducted Emission on AC Mains

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.107(a)
Basic standard	: ANSI C63.4: 2014
Frequency range	: 0.15 – 30MHz
Limits	: FCC Part 15.207(a) & FCC Part 15.107(a)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2020-11-02 - 2021-01-12
Input voltage	: Battery charged by AC/DC adapter with 120V/60Hz input
Operation mode	: A, B
Earthing	: Not connected
Ambient temperature	: 24.8 °C
Relative humidity	: 52 %
Atmospheric pressure	: 99.43 kPa

For the measurement records, refer to the appendix B.

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5.1.2 Radiated Emissions

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.109(a) ICES-003
Basic standard	: ANSI C63.4: 2014
Frequency range	: 30MHz to 18GHz
Classification	: Class A
Limits	: FCC Part 15.109(a)
Kind of test site	: 3m Semi-anechoic Chamber & 3m Full-anechoic Chamber

Test Setup

Date of testing	: 2020-11-02 - 2021-01-12
Input voltage	: Battery charged by AC/DC adapter with 120V/60Hz input
Operation mode	: A, B
Earthing	: Not connected
Ambient temperature	: 25.1 °C
Relative humidity	: 42 %
Atmospheric pressure	: 100.6 kPa

For the measurement records, refer to the appendix B.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

7 List of Tables

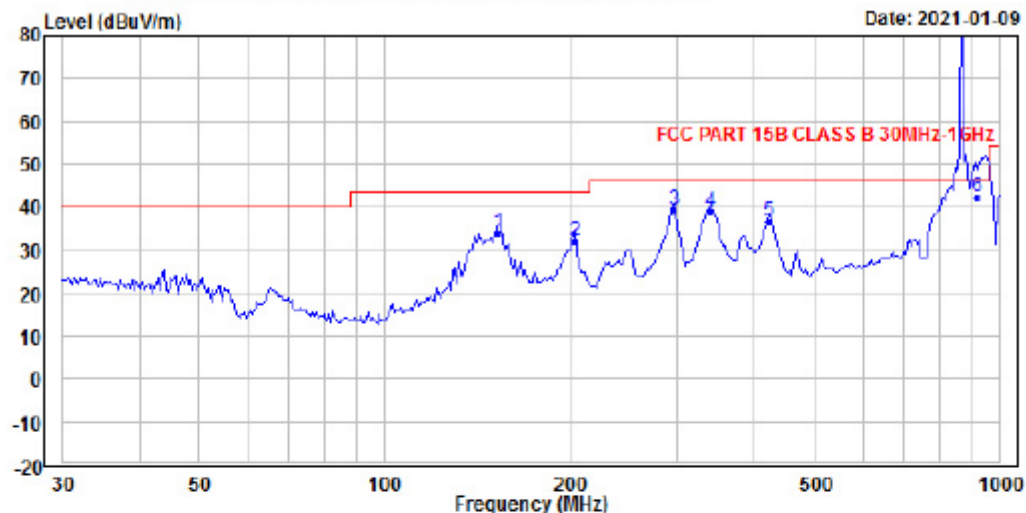
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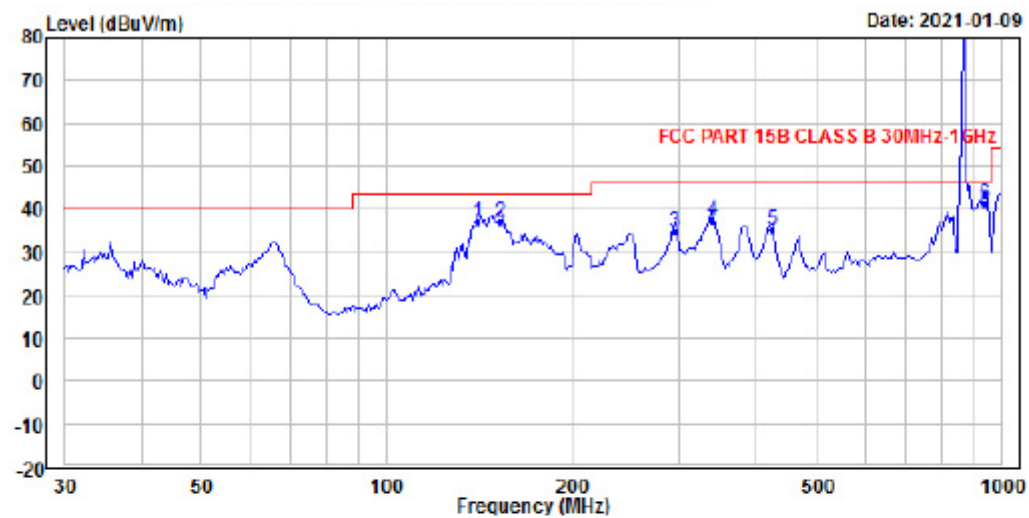
Appendix B.1: Radiated Emissions, below 1GHz

The emissions exceed the limit is the fundamental emissions.
All operating conditions are tested and only the worst-case mode are reported.



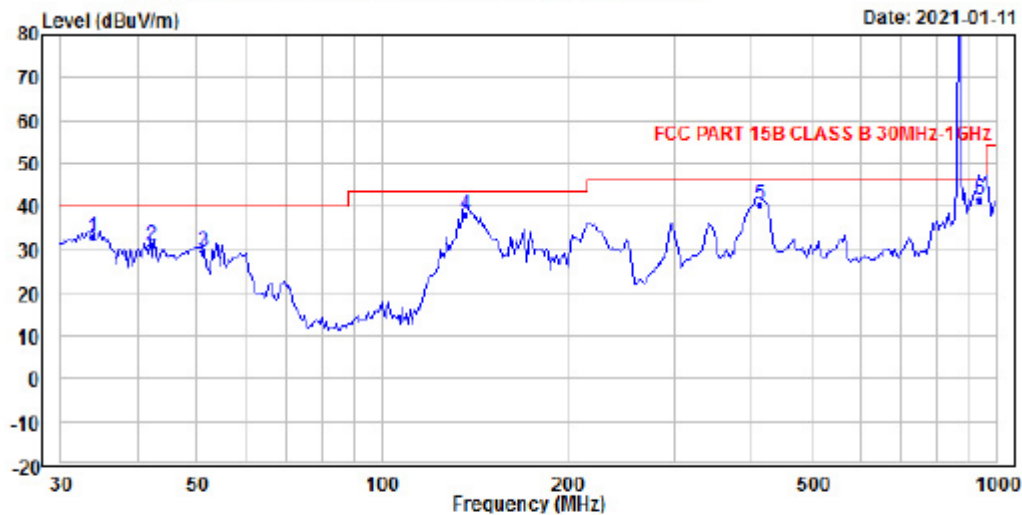
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.1(C) / 42%
Press : 100.62kPa
Product : Gateway
Model No. : T11012860
Power Rating : AC 120V/60Hz
Test Engineer : Lucas
Test Mode : TM1:Adapter Charging(120V~60Hz)+Battery+GNSS Rx+GSM 850 Idle+8

	Read	Ant	Preamp	Aux	Cable		Limit	Over	
Freq	Level	Factor	Factor	Factor	Loss	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	153.163	49.19	11.87	28.43	0.00	1.25	33.88	43.50	-9.62 QP
2	204.305	43.14	15.89	28.21	0.00	1.44	32.26	43.50	-11.24 QP
3	296.502	46.07	19.63	27.99	0.00	1.64	39.35	46.00	-6.65 QP
4	338.855	44.53	20.88	28.24	0.00	1.75	38.92	46.00	-7.08 QP
5	421.329	40.86	22.47	28.78	0.00	1.93	36.48	46.00	-9.52 QP
6 PP	923.171	38.00	30.14	28.83	0.00	2.88	42.19	46.00	-3.81 QP



Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.1(C) / 42%
Press : 100.62kPa
Product : Gateway
Model No. : T11012860
Power Rating : AC 120V/60Hz
Test Engineer : Lucas
Test Mode : TM1:Adapter Charging(120V~60Hz)+Battery+GNSS Rx+GSM 850 Idle+T

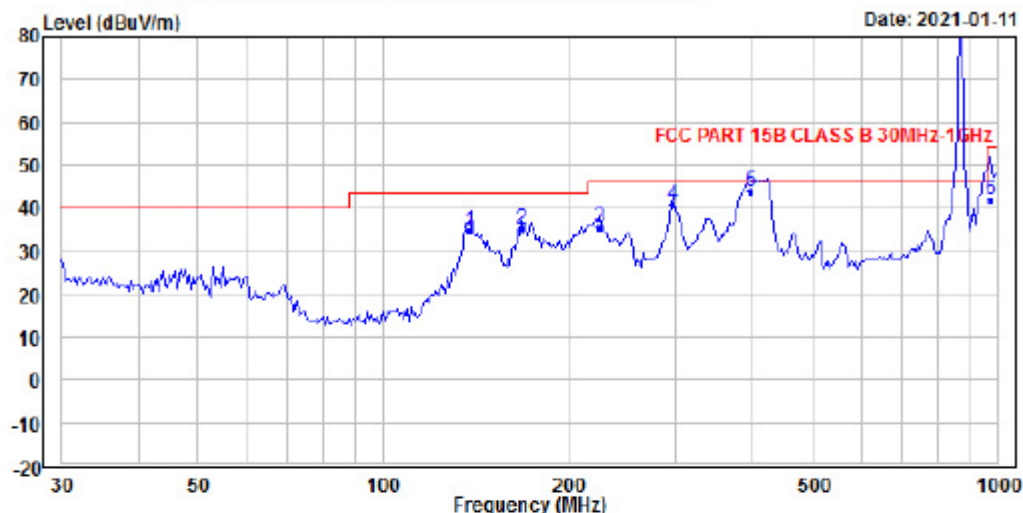
	Freq	Read Level	Ant Factor	Preamp Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	140.777	52.72	11.50	28.48	0.00	1.20	36.94	43.50	-6.56	QP
2	153.163	52.46	11.87	28.43	0.00	1.25	37.15	43.50	-6.35	QP
3	294.426	41.67	19.59	27.99	0.00	1.64	34.91	46.00	-11.09	QP
4	338.855	43.17	20.88	28.24	0.00	1.75	37.56	46.00	-8.44	QP
5	424.300	39.41	22.41	28.80	0.00	1.94	34.96	46.00	-11.04	QP



Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.1(C) / 42%
Press : 100.62kPa
Product : Gateway
Model No. : T11012860
Power Rating : AC 120V/60Hz
Test Engineer : Lucas
Test Mode : TM6:数据交换(适配器120V充电+笔记本电脑)

		Read	Ant	Preamp	Aux	Cable		Limit	Over	
	Freq	Level	Factor	Factor	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	33.807	37.51	23.32	28.81	0.00	0.72	32.74	40.00	-7.26	QP
2	42.035	40.14	18.58	28.79	0.00	0.86	30.79	40.00	-9.21	QP
3	51.176	45.02	12.55	28.78	0.00	0.80	29.59	40.00	-10.41	QP
4	136.264	54.00	11.60	28.50	0.00	1.19	38.29	43.50	-5.21	QP
5	412.540	44.97	22.25	28.72	0.00	1.92	40.42	46.00	-5.58	QP

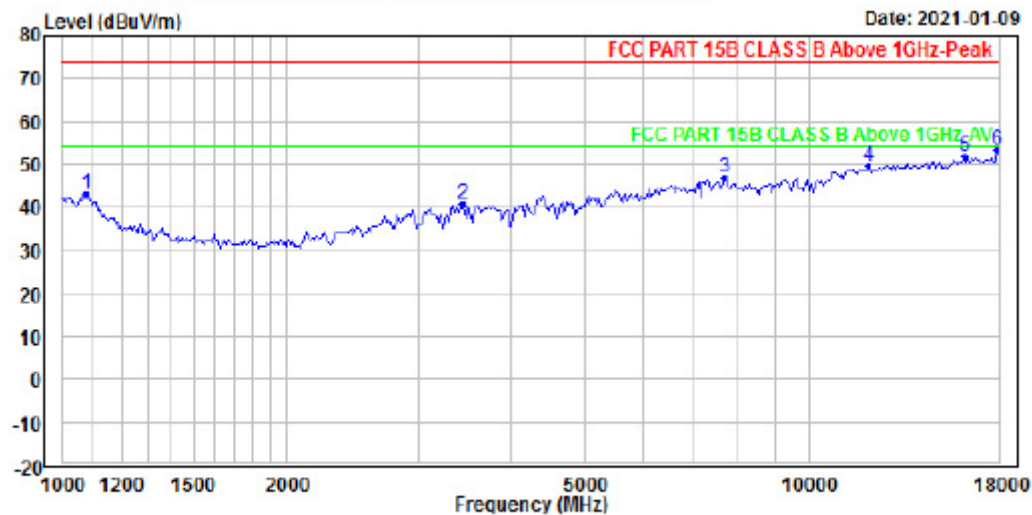
Produkte
Products



Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.1(C) / 42%
Press : 100.62kPa
Product : Gateway
Model No. : T11012860
Power Rating : AC 120V/60Hz
Test Engineer : Lucas
Test Mode : TM6:数据交换(适配器120V充电+笔记本电脑)

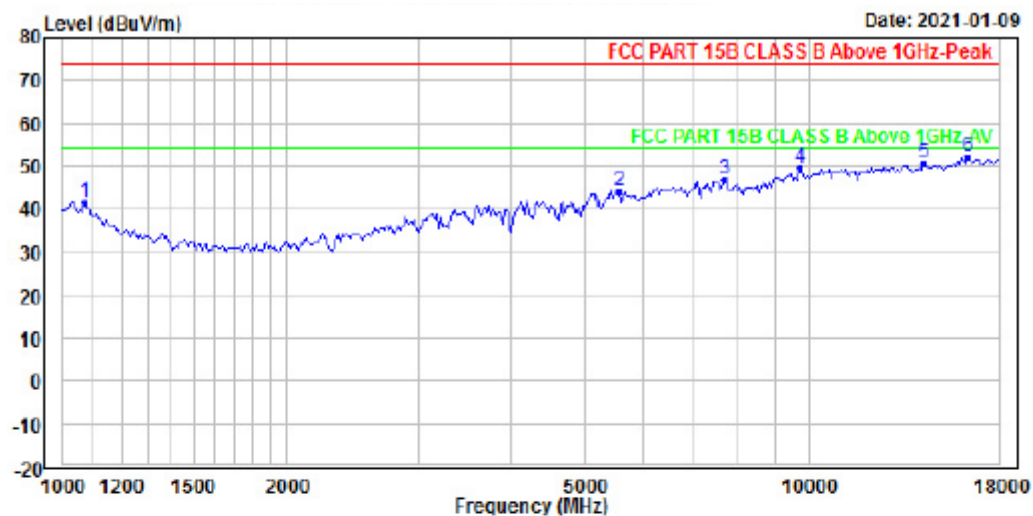
	Freq	Read Level	Ant Factor	Preamplifier Factor	Aux Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	137.840	50.81	11.43	28.49	0.00	1.19	34.94	43.50	-8.56	QP
2	167.814	46.89	15.14	28.36	0.00	1.31	34.98	43.50	-8.52	QP
3	225.427	46.20	16.13	28.16	0.00	1.49	35.66	46.00	-10.34	QP
4	296.502	47.45	19.63	27.99	0.00	1.64	40.73	46.00	-5.27	QP
5 PP	397.222	48.60	22.03	28.62	0.00	1.89	43.90	46.00	-2.10	QP
6	972.283	37.37	30.15	28.69	0.00	3.09	41.92	54.00	-12.08	QP

Appendix B.2: Radiated Emissions, 1GHz to 6GHz



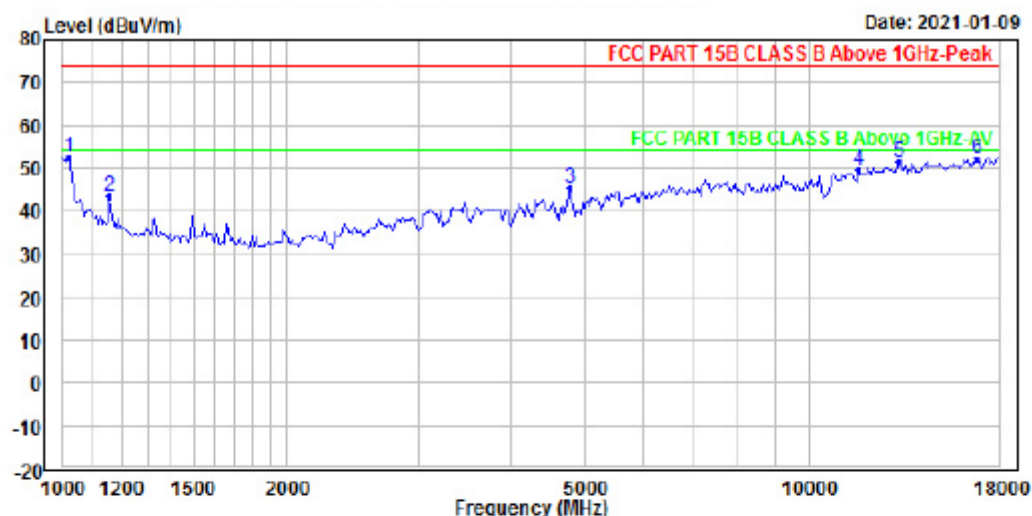
Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.1(C) / 42%
Press : 100.62kPa
Product : Gateway
Model No. : T11012860
Power Rating : AC 120V/60Hz
Test Engineer : Lucas
Test Mode : TM1:Adapter Charging(120V~60Hz)+Battery+GNSS Rx+GSM 850 Idle+8

	Read Freq	Ant Level	Preamplifier Factor	Aux Factor	Cable Loss	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	1078.208	53.80	30.84	46.87	0.00	5.48	43.25	74.00	-30.75 Peak
2	3434.138	46.30	33.24	46.86	0.00	8.21	40.89	74.00	-33.11 Peak
3	7726.777	45.10	35.90	46.07	0.00	11.89	46.82	74.00	-27.18 Peak
4	12000.030	42.45	38.60	46.00	0.00	14.65	49.70	74.00	-24.30 Peak
5	16124.140	40.55	40.57	46.37	0.00	17.29	52.04	74.00	-21.96 Peak
6	PP17896.040	38.55	41.74	45.17	0.00	18.24	53.36	74.00	-20.64 Peak



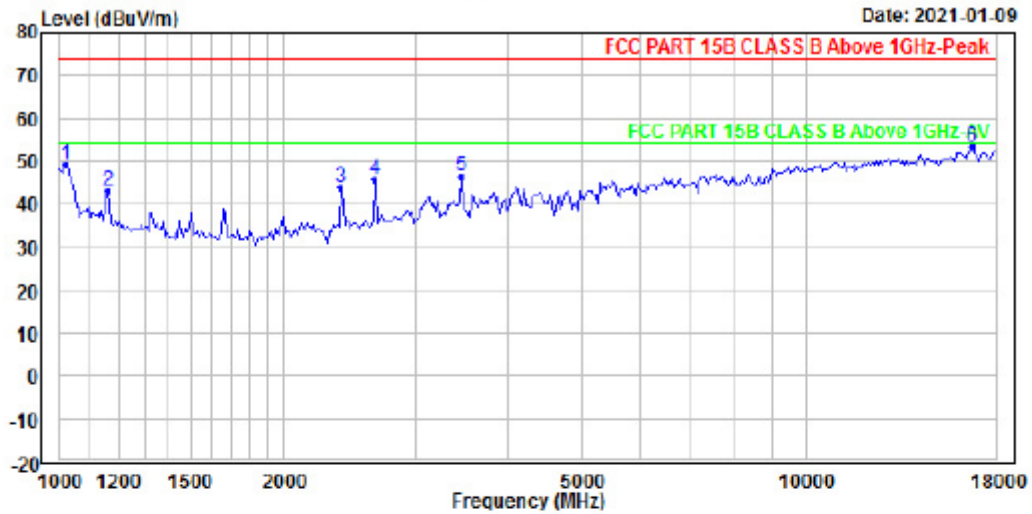
Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.1(C) / 42%
Press : 100.62kPa
Product : Gateway
Model No. : T11012860
Power Rating : AC 120V/60Hz
Test Engineer : Lucas
Test Mode : TM1:Adapter Charging(120V~60Hz)+Battery+GNSS Rx+GSM 850 Idle+8

	Freq	Read Level	Ant Factor	Preamp Factor	Aux Factor	Cable Loss	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	1071.981	52.55	30.56	46.86	0.00	5.48	41.73	74.00	-32.27	Peak
2	5554.060	44.46	35.18	45.67	0.00	10.40	44.37	74.00	-29.63	Peak
3	7726.777	45.03	36.00	46.07	0.00	11.89	46.85	74.00	-27.15	Peak
4	9741.401	44.16	37.19	45.84	0.00	13.90	49.41	74.00	-24.59	Peak
5	14277.410	39.06	39.23	43.67	0.00	16.29	50.91	74.00	-23.09	Peak
6	PP16312.020	40.34	41.06	46.49	0.00	17.37	52.28	74.00	-21.72	Peak



Condition : 3m Horizontal
Temp.(C)/Hum.(%): 25.1(C) / 42%
Press : 100.62kPa
Product : Gateway
Model No. : T11012860
Power Rating : TYPE-C 5V
Test Engineer : Lucas
Test Mode : TM4:数据交换(TYPE-C充电+笔记本电脑)

		Read	Ant	Preamp	Aux	Cable	Limit	Over	
Freq	Level	Factor	Factor	Factor	Factor	Loss	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dB	dB	dBuV/m	dBuV/m	dB
1 PP 1017.529	63.06	30.96	46.74	0.00	5.49	52.77	74.00	-21.23	Peak
2 1155.818	54.46	30.69	47.04	0.00	5.47	43.58	74.00	-30.42	Peak
3 4777.554	48.36	34.16	46.56	0.00	9.49	45.45	74.00	-28.55	Peak
4 11657.470	43.08	38.26	46.07	0.00	14.40	49.67	74.00	-24.33	Peak
5 13241.800	40.98	38.85	44.17	0.00	15.77	51.43	74.00	-22.57	Peak
6 16791.350	40.49	41.27	46.95	0.00	17.59	52.40	74.00	-21.60	Peak

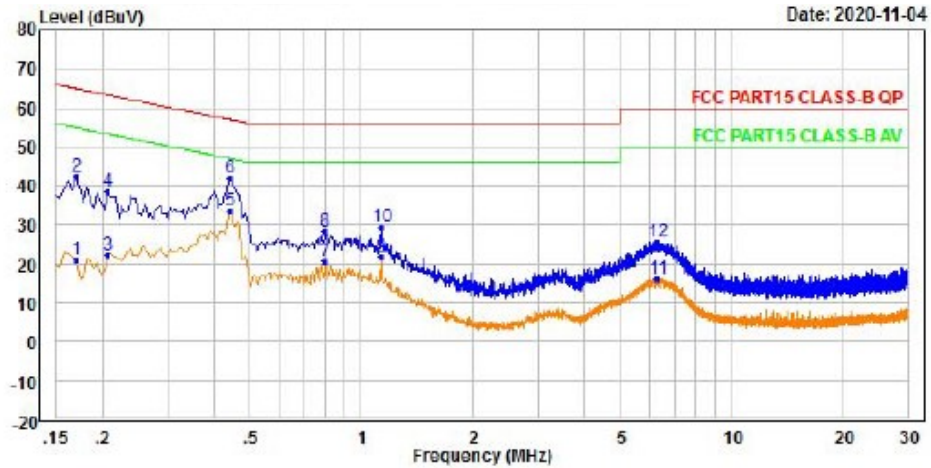


Condition : 3m Vertical
Temp.(C)/Hum.(%): 25.1(C) / 42%
Press : 100.62kPa
Product : Gateway
Model No. : T11012860
Power Rating : TYPE-C 5V
Test Engineer : Lucas
Test Mode : TM4:数据交换(TYPE-C充电+笔记本电脑)

		Read	Ant	Preamp	Aux	Cable		Limit	Over	
	Freq	Level	Factor	Factor	Factor	Loss	Level	Line	Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	1017.529	59.56	30.74	46.74	0.00	5.49	49.05	74.00	-24.95	Peak
2	1162.532	54.30	30.25	47.06	0.00	5.47	42.96	74.00	-31.04	Peak
3	2384.166	53.18	31.91	48.03	0.00	6.89	43.95	74.00	-30.05	Peak
4	2646.164	54.24	32.28	48.04	0.00	7.17	45.65	74.00	-28.35	Peak
5	3454.087	52.19	33.06	46.81	0.00	8.24	46.68	74.00	-27.32	Peak
6	PP16694.370	41.37	41.48	46.83	0.00	17.54	53.56	74.00	-20.44	Peak

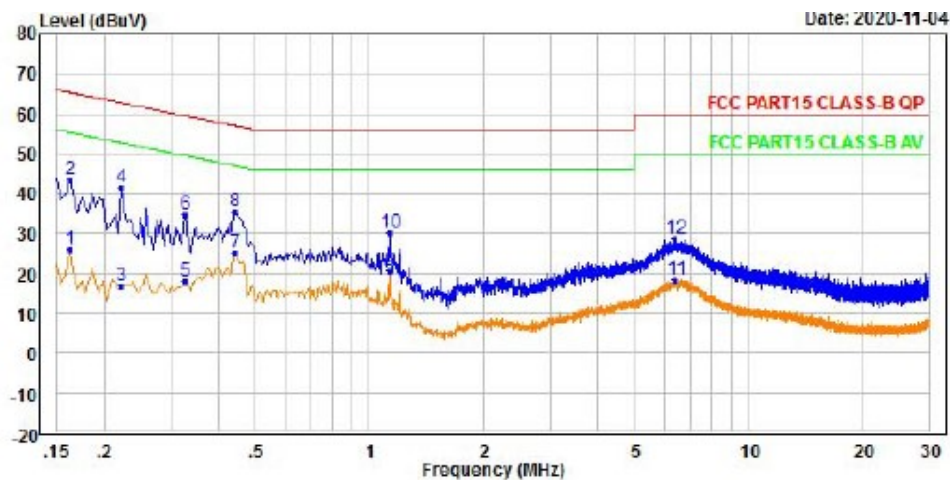
Appendix B.3: Conducted Emissions on AC Main

Charging with wireless link



Site : Shielding Room
Condition : Line
Temp.(C)/Hum.(%): 24.8(C) /52%
Press : 99.43kPa
Product : Gateway
Model No. : T11012860
Power Rating : AC 120V/60Hz
Test Engineer : Tripp
Note :

	Freq	Read Level	LISN Factor	Cable Loss	Aux Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.1700	12.06	-0.90	0.01	9.94	21.11	54.96	-33.85	Average
2	0.1700	33.43	-0.90	0.01	9.94	42.48	64.96	-22.48	QP
3	0.2060	13.09	-0.86	0.01	9.93	22.17	53.37	-31.20	Average
4	0.2060	29.41	-0.86	0.01	9.93	38.49	63.37	-24.88	QP
5 PP	0.4420	24.23	-0.69	0.02	9.93	33.49	47.02	-13.53	Average
6 QP	0.4420	32.72	-0.69	0.02	9.93	41.98	57.02	-15.04	QP
7	0.8020	11.38	-0.53	0.02	9.93	20.80	46.00	-25.20	Average
8	0.8020	19.04	-0.53	0.02	9.93	28.46	56.00	-27.54	QP
9	1.1339	12.20	-0.50	0.02	9.93	21.65	46.00	-24.35	Average
10	1.1339	20.02	-0.50	0.02	9.93	29.47	56.00	-26.53	QP
11	6.3056	6.46	-0.21	0.07	9.76	16.08	50.00	-33.92	Average
12	6.3056	15.95	-0.21	0.07	9.76	25.57	60.00	-34.43	QP



Site : Shielding Room
Condition : Neutral
Temp.(C)/Hum.(%): 24.8(C) /52%
Press : 99.43kPa
Product : Gateway
Model No. : T11012860
Power Rating : AC 120V/60Hz
Test Engineer : Tripp
Note :

	Freq	Read Level	LISN Factor	Cable Loss	Aux Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.1620	16.82	-0.91	0.01	9.94	25.86	55.36	-29.50	Average
2	0.1620	34.45	-0.91	0.01	9.94	43.49	65.36	-21.87	QP
3	0.2220	7.75	-0.84	0.01	9.93	16.85	52.74	-35.89	Average
4 PP	0.2220	32.68	-0.84	0.01	9.93	41.78	62.74	-20.96	QP
5	0.3260	8.72	-0.76	0.01	9.93	17.90	49.55	-31.65	Average
6	0.3260	25.48	-0.76	0.01	9.93	34.66	59.55	-24.89	QP
7 AV	0.4420	16.16	-0.69	0.02	9.93	25.42	47.02	-21.60	Average
8	0.4420	26.41	-0.69	0.02	9.93	35.67	57.02	-21.35	QP
9	1.1339	11.29	-0.50	0.02	9.93	20.74	46.00	-25.26	Average
10	1.1339	20.73	-0.50	0.02	9.93	30.18	56.00	-25.82	QP
11	6.4296	8.69	-0.21	0.07	9.76	18.31	50.00	-31.69	Average
12	6.4296	18.97	-0.21	0.07	9.76	28.59	60.00	-31.41	QP