

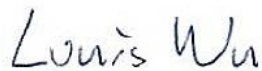


FCC RADIO TEST REPORT

FCC ID : UZ7RFD4031
Equipment : RFID Sled
Brand Name : ZEBRA
Model Name : RFD4031
Applicant : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Manufacturer : Zebra Technologies Corporation
3 Overlook Point, Lincolnshire, IL 60069 USA
Standard : FCC Part 15 Subpart C §15.247

The product was received on Jan. 19, 2026 and testing was started from Jan. 23, 2026 to Jan. 24, 2026. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. Wensan Laboratory, the test report shall not be reproduced except in full.



Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan



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History of this test report

Report No.	Version	Description	Issue Date
FR5D1504	01	Initial issue of report	Feb. 06, 2026
FR5D1504	02	Revise applicant address, manufacturer address, and section 2.3 This report is an updated version, replacing the report issued on Feb. 06, 2026.	Mar. 12, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	15.247(a)(1)	Number of Channels	Not Required	-
-	15.247(a)(1)	Hopping Channel Separation	Not Required	-
-	15.247(a)(1)	Dwell Time of Each Channel	Not Required	-
-	15.247(a)(1)	20dB Bandwidth	Not Required	-
-	2.1049	99% Occupied Bandwidth	Not Required	-
3.1	15.247(b)(1)	Output Power	Pass	-
-	15.247(d)	Conducted Band Edges	Not Required	-
-	15.247(d)	Conducted Spurious Emission	Not Required	-
3.2	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	Pass	-
-	15.207	AC Conducted Emission	Not Required	-
3.3	15.203 & 15.247(b)	Antenna Requirement	Pass	-

Note: This is a variant report which can be referred Product Equality Declaration. All the test cases were performed on original report which can be referred to Sporton Report Number FR142718. Based on the original report, only worst case was verified.

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Wei Chen

Report Producer: Dara Chiu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
Equipment	RFID Sled
Brand Name	ZEBRA
Model Name	RFD4031
FCC ID	UZ7RFD4031
EUT supports Radios application	UHF RFID
HW Version	DV
SW Version	PAAFKS00-009-R00
MFD	24NOV25
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer.

Specification of Accessories				
Battery	Brand Name	ZEBRA	Model Name	BT-000380
Supported Unit used in test configuration and system				
AC Adapter	Brand Name	ZEBRA	Part Number	PWR-WUA5V12W0US
USB Cable	Brand Name	ZEBRA	Part Number	CBL-TC5X-USBC2A-01
Terminal	Brand Name	ZEBRA	Model Name	TC26BK
Battery for TC26BK	Brand Name	ZEBRA	Model Name	BT-000409A

1.2 Product Specification of Equipment Under Test

Product Specification is subject to this standard	
Tx/Rx Frequency Range	902.75 MHz ~ 927.25 MHz
Number of Channels	50
Maximum Output Power to Antenna	29.97 dBm (0.9931 W)
Antenna Type / Gain	Helix Antenna with gain 4.16 dBi
Type of Modulation	ASK

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

1.3 Modification of EUT

No modifications are made to the EUT during all test items.

1.4 Testing Location

The test location is accredited based on TAF code 1190 and 3786 designated by NCC (National Communication Commission).

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)

FCC designation No.: TW1190 and TW3786

Note:

1. The test site complies with ANSI C63.4 2014 requirement.
2. The Radiated Spurious Emission test item subcontracted to Sporton International Inc. EMC & Wireless Communications Laboratory (TAF Code: 1190).

1.5 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC Part 15 Subpart C §15.247
- ♦ FCC KDB Publication No. 558074 D01 DTS Meas. Guidance v05r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01
- ♦ ANSI C63.10-2020

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. The TAF code is not including all the FCC KDB listed without accreditation.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

2.1 Carrier Frequency Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
902.75-927.25 MHz	0	902.75	27	916.25
	1	903.25	28	916.75
	2	903.75	29	917.25
	3	904.25	30	917.75
	4	904.75	31	918.25
	5	905.25	32	918.75
	6	905.75	33	919.25
	7	906.25	34	919.75
	8	906.75	35	920.25
	9	907.25	36	920.75
	10	907.75	37	921.25
	11	908.25	38	921.75
	12	908.75	39	922.25
	13	909.25	40	922.75
	14	909.75	41	923.25
	15	910.25	42	923.75
	16	910.75	43	924.25
	17	911.25	44	924.75
	18	911.75	45	925.25
	19	912.25	46	925.75
	20	912.75	47	926.25
	21	913.25	48	926.75
	22	913.75	49	927.25
	23	914.25		
	24	914.75		
	25	915.25		
	26	915.75		

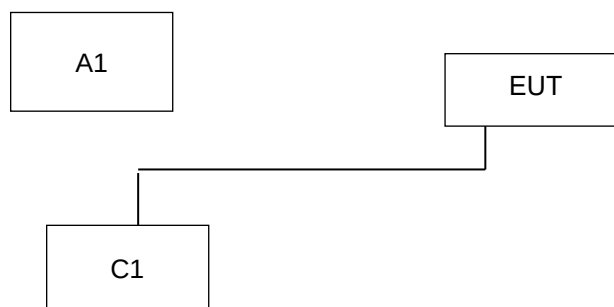
2.2 Test Mode

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape), and adjusting the measurement antenna orientation, following C63.10 exploratory test procedures and only the worst case emissions were reported in this report.

The following summary table is showing all test modes to demonstrate in compliance with the standard.

Summary table of Test Cases	
Test Item	UHF RFID
Radiated Test Cases	Mode 1: UHF RFID Tx 902.75 MHz
	Mode 2: UHF RFID Tx 914.75 MHz
	Mode 3: UHF RFID Tx 927.25 MHz

2.3 Connection Diagram of Test System



Radiation Test Setup			
No.	Wireless Station	Connection Type	Test Mode
			1 ~ 3
A1	RFID Tx	RFID	X
No.	Setup Peripherals	Connection Type	1 ~ 3
C1	Notebook	USB cable	X



2.4 EUT Operation Test Setup

The RF test items, utility “Tera Term 5.3” was installed in Notebook which was programmed in order to make the EUT get into the engineering modes to provide channel selection, power level, data rate and the application type and for continuous transmitting signals.

3 Test Result

3.1 Output Power Measurement

3.1.1 Limit of Output Power

Section 15.247 (a) Operation under the provisions of this Section is limited to frequency hopping and digitally modulated intentional radiators that comply with the following provisions: (1)(i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (2) For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

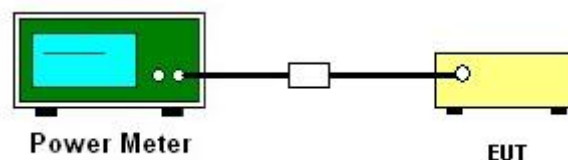
3.1.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

3.1.3 Test Procedures

1. The testing follows ANSI C63.10 clause 7.8.5.
1. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
2. Set the maximum power setting and enable the EUT to transmit continuously.
3. Measure the conducted output power with cable loss and record the results in the test report.
4. Measure and record the results in the test report.

3.1.4 Test Setup



**3.1.5 Test Result of Output Power**

Test Mode :	UHF RFID	Temperature :	20~25°C
Test Engineer :	Shiming Liu	Relative Humidity :	50~56%

Frequency (MHz)	RF Power (dBm)		
	UHF	Max. Limits (dBm)	Pass/Fail
902.75	29.90	30.00	Pass
914.75	29.97	30.00	Pass
927.25	29.71	30.00	Pass

3.1.6 Test Result of Average Power (Reporting Only)

Test Mode :	UHF RFID	Temperature :	20~25°C
Test Engineer :	Shiming Liu	Relative Humidity :	50~56%

Frequency (MHz)	RF Power (dBm)
	UHF
902.75	28.11
914.75	28.29
927.25	27.93



3.2 Radiated Band Edges and Spurious Emission Measurement

3.2.1 Limit of Radiated Band Edges and Spurious Emission

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2 Measuring Instruments

Please refer to the measuring equipment list in this test report.

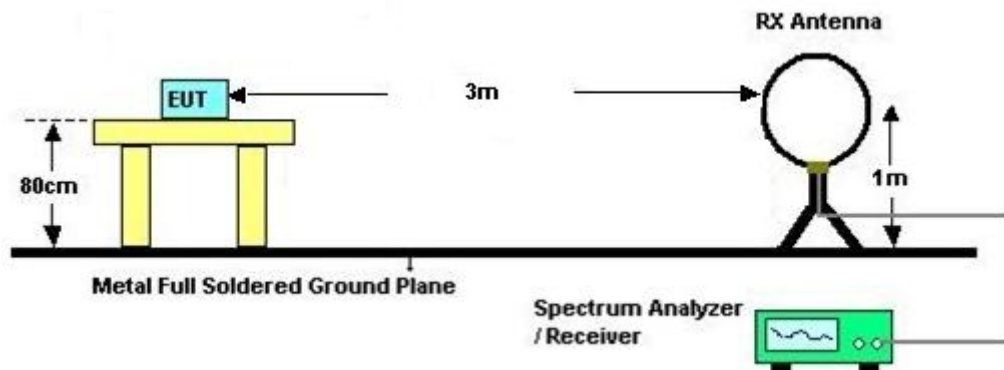
3.2.3 Test Procedures

1. The EUT is placed on a turntable with 0.8 meter for frequency below 1 GHz and 1.5 meter for frequency above 1 GHz respectively above ground.
1. The EUT is set 3 meters away from the receiving antenna, which is mounted on the top of a variable height antenna tower.
2. For each suspected emission, the EUT is arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
3. Set the maximum power setting and enable the EUT to transmit continuously.
4. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW = 100 kHz for $f < 1$ GHz, RBW = 1 MHz for $f > 1$ GHz ; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak
 - (3) For average measurement: use duty cycle correction factor method per 15.35(c).
Duty cycle = On time/100 milliseconds
$$\text{On time} = N_1 \cdot L_1 + N_2 \cdot L_2 + \dots + N_{n-1} \cdot L_{n-1} + N_n \cdot L_n$$

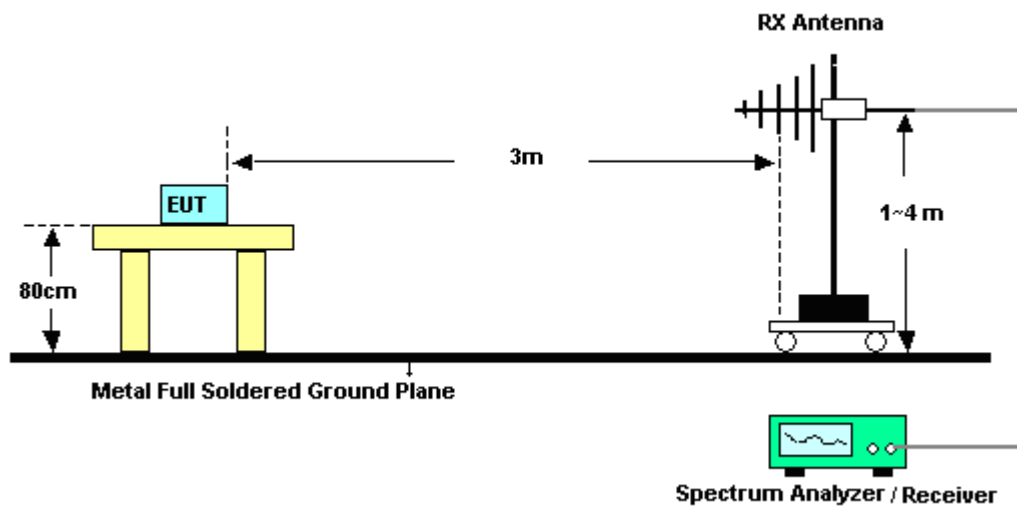
Where N_1 is number of type 1 pulses, L_1 is length of type 1 pulses, etc.
Average Emission Level = Peak Emission Level + $20 \cdot \log(\text{Duty cycle})$
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. Radiated testing below 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading. When there is no suspected emission found and the emission level is with at least 6 dB margin against QP limit line, the position is marked as “-”.
7. Radiated testing above 1 GHz is performed by adjusting the antenna tower from 1 m to 4 m and by rotating the turn table from 0 degree to 360 degrees to find the peak maximum hold reading for scanning all frequencies. When there is no suspected emission found and the harmonic emission level is with at least 6 dB margin against average limit line, the position is marked as “-”.

3.2.4 Test Setup

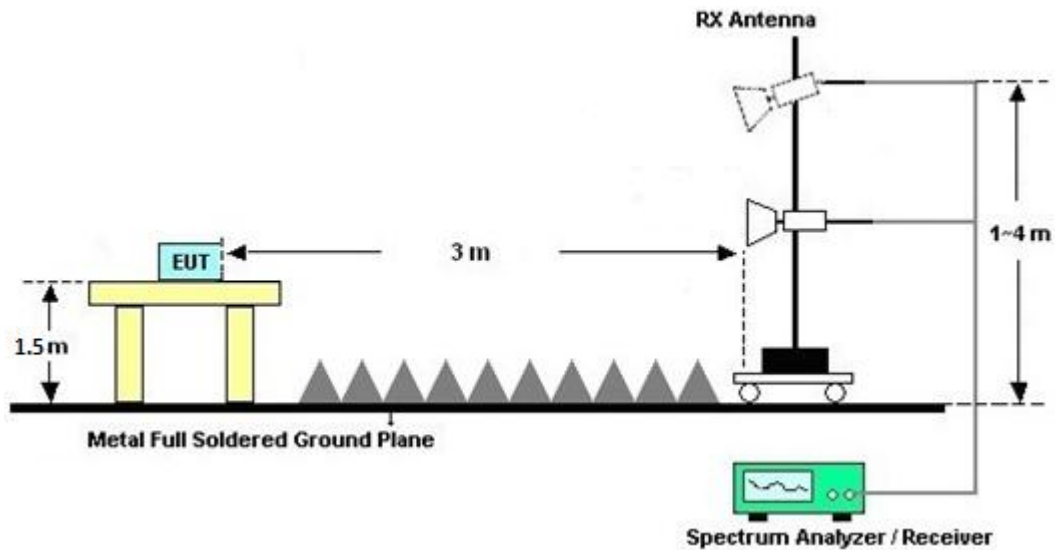
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.2.5 Test Results of Radiated Spurious Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix A and B.

3.2.7 Duty Cycle

Please refer to Appendix C.

3.2.8 Test Result of Radiated Spurious Emission

Please refer to Appendix A and B.



3.3 Antenna Requirements

3.3.1 Standard Applicable

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.3.2 Antenna Anti-Replacement Construction

Antenna permanently attached.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Hygrometer	TECEPEL	DTM-303A	TP201996	N/A	Nov. 04, 2025	Jan. 23, 2026	Nov. 03, 2026	Conducted (TH05-HY)
Power Meter	Anritsu	ML2495A	1036004	N/A	Jul. 01, 2025	Jan. 23, 2026	Jun. 30, 2026	Conducted (TH05-HY)
Power Sensor	Anritsu	MA2411B	1027253	300MHz~40GHz	Jul. 01, 2025	Jan. 23, 2026	Jun. 30, 2026	Conducted (TH05-HY)
Signal Analyzer	Rohde & Schwarz	FSV3044	101468	10HZ~44GHZ	Mar. 13, 2025	Jan. 23, 2026	Mar. 12, 2026	Conducted (TH05-HY)
Switch Control Mainframe	E-Instument	ETF-1405-0	EC1900157 (BOX6)	N/A	Feb. 10, 2025	Jan. 23, 2026	Feb. 09, 2026	Conducted (TH05-HY)
Software	Sporton	BTWIFI_Final_version_240513	N/A	Conducted Other Test Item	N/A	Jan. 23, 2026	N/A	Conducted (TH05-HY)
EMI Test Receiver	Rohde & Schwarz	ESU26	100472	20Hz~26.5GHz	Jan. 06, 2026	Jan. 23, 2026 ~ Jan. 24, 2026	Jan. 05, 2027	Radiation (03CH07-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N-06	35419 & 03	30MHz~1GHz	Apr. 21, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	Apr. 20, 2026	Radiation (03CH07-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 06, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	Mar. 05, 2026	Radiation (03CH07-HY)
Preamplifier	MITEQ	AMF-7D-0010 1800-30-10P	1590075	1GHz~18GHz	Apr. 18, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	Apr. 17, 2026	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10MHz~1GHz	Sep. 30, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	Sep. 29, 2026	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1GHz~26.5GHz	Mar. 22, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	Mar. 21, 2026	Radiation (03CH07-HY)
Preamplifier	EMEC	EM18G40G	0600789	18-40GHz	Aug. 08, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	Aug. 07, 2026	Radiation (03CH07-HY)
Signal Analyzer	Agilent	N9030A	MY52350276	3Hz~44GHz	Mar. 28, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	Mar. 27, 2026	Radiation (03CH07-HY)
Double Ridged Guide Horn Antenna	ETS-Lindgren	3117	00075962	1GHz ~ 18GHz	Dec. 09, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	Dec. 08, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4 MY15682/4	30MHz to 18GHz	Feb. 20, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104	MY28655/4 MY24971/4	9kHz to 30MHz	Feb. 20, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126	532078/126E	30MHz~18GHz	Sep. 13, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	Sep. 12, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	MY2858/2	18GHz~40GHz	Feb. 20, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	Feb. 19, 2026	Radiation (03CH07-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	801606/2	9KHz ~ 40GHz	Apr. 23, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	Apr. 22, 2026	Radiation (03CH07-HY)
Controller	EMEC	EM1000	N/A	Control Ant Mast	N/A	Jan. 23, 2026 ~ Jan. 24, 2026	N/A	Radiation (03CH07-HY)
Antenna Mast	EMEC	AM-BS-4500E	N/A	Boresight mast 1M~4M	N/A	Jan. 23, 2026 ~ Jan. 24, 2026	N/A	Radiation (03CH07-HY)
Antenna Mast	MF	MF-7802	N/A	Control Turn table	N/A	Jan. 23, 2026 ~ Jan. 24, 2026	N/A	Radiation (03CH07-HY)
Turn Table	ChainTek	Chaintek 3000	N/A	0~360 Degree	N/A	Jan. 23, 2026 ~ Jan. 24, 2026	N/A	Radiation (03CH07-HY)
Software	Audix	E3	RK-002396	N/A	N/A	Jan. 23, 2026 ~ Jan. 24, 2026	N/A	Radiation (03CH07-HY)
USB Data Logger	TECEPEL	TR-32	HE17XB2495	N/A	Feb. 24, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	Feb. 23, 2026	Radiation (03CH07-HY)
Horn Antenna	SCHWARZBECK	BBHA9170	00991	18GHz-40GHz	May 29, 2025	Jan. 23, 2026 ~ Jan. 24, 2026	May 28, 2026	Radiation (03CH07-HY)



5 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	6.30 dB
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.70 dB
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Uncertainty of Radiated Emission Measurement (6000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.50 dB
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Appendix A. Radiated Spurious Emission

Test Engineer :	Jesse Wang, Stan Hsieh, and Ken Wu	Temperature :	18.2~21.3°C
		Relative Humidity :	56.4~68.6%

RFID

RFID (LF @ 3m)

[illegible]



RFID	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
RFID 914.75MHz		64.83	24.69	-15.31	40	41.07	12.05	1.52	29.95	-	-	P	H
		243.03	38.65	-7.35	46	48.17	17.5	2.84	29.86	-	-	P	H
		255.99	37.24	-8.76	46	45.08	19.1	2.91	29.85	-	-	P	H
		608	29.82	-16.18	46	29.54	25.67	4.43	29.82	-	-	P	H
		659.8	31.17	-14.83	46	30.04	26.32	4.56	29.75	-	-	P	H
		675.2	31.87	-14.13	46	30.7	26.26	4.61	29.7	-	-	P	H
	*	914.75	117.69	71.69	46	112.22	29.09	5.38	29	100	173	P	H
		30.81	31.65	-8.35	40	37.29	23.65	0.7	29.99	-	-	P	V
		64.83	27.11	-12.89	40	43.49	12.05	1.52	29.95	-	-	P	V
		91.02	30.66	-12.84	43.5	43.88	14.93	1.79	29.94	-	-	P	V
		517.7	28.43	-17.57	46	30.33	23.91	4.07	29.88	-	-	P	V
		640.9	27.96	-18.04	46	26.64	26.61	4.51	29.8	-	-	P	V
		714.4	29.22	-16.78	46	27.32	26.78	4.74	29.62	-	-	P	V
	*	914.75	117.85	71.85	46	112.38	29.09	5.38	29	100	151	P	V

RFID	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
RFID 927.25MHz		71.85	32.84	-7.16	40	48.73	12.52	1.52	29.93	-	-	P	H
		145.83	29.05	-14.45	43.5	39.35	17.42	2.14	29.86	-	-	P	H
		226.56	32.86	-13.14	46	44.16	15.95	2.65	29.9	-	-	P	H
		333.6	28.08	-17.92	46	34.96	19.82	3.18	29.88	-	-	P	H
		594	26.73	-19.27	46	26.55	25.77	4.23	29.82	-	-	P	H
	*	927.25	117.92	71.92	46	112.11	29.49	5.23	28.91	100	162	P	H
		999.3	38.66	-15.34	54	31.32	30.28	5.5	28.44	-	-	P	H
		30.81	31.36	-8.64	40	37.04	23.65	0.66	29.99	-	-	P	V
		72.12	29.22	-10.78	40	45.06	12.56	1.53	29.93	-	-	Q	V
		210.09	29.34	-14.16	43.5	41.55	15.16	2.56	29.93	-	-	P	V
		459.6	26.27	-19.73	46	29.23	23.19	3.71	29.86	-	-	P	V
		566	26.9	-19.1	46	26.42	26.15	4.11	29.78	-	-	P	V
	*	927.25	119	73	46	113.19	29.49	5.23	28.91	100	185	P	V
		993	34.59	-19.41	54	27.07	30.53	5.47	28.48	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line. 3. Non restricted band limit is radio frequency level down 20db 4. The emission position marked as “-” means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												

**RFID (Harmonic @ 3m)**

RFID	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
RFID 902.75MHz		2708.25	39.75	-34.25	74	56.68	32.62	9.53	59.08	-	-	P	H
		3611	42.59	-31.41	74	57.71	33.24	10.85	59.21	400	200	P	H
		3611	41.1	-12.9	54	56.22	33.24	10.85	59.21	400	200	A	H
		4513.75	41.39	-32.61	74	53.79	34.23	12.38	59.01	-	-	P	H
		5416.5	40.19	-33.81	74	49.44	34.9	13.21	57.36	-	-	P	H
		8124.75	41.27	-32.73	74	46.2	36.2	16.54	57.67	-	-	P	H
		9027.5	45.28	-28.72	74	49.66	36.5	17.79	58.67	-	-	P	H
		2708.25	40.07	-33.93	74	57	32.62	9.53	59.08	-	-	P	V
		3611	44.81	-29.19	74	59.93	33.24	10.85	59.21	100	292	P	V
		3611	43.18	-10.82	54	58.3	33.24	10.85	59.21	100	292	A	V
		4513.75	42.32	-31.68	74	54.72	34.23	12.38	59.01	-	-	P	V
		5416.5	40.7	-33.3	74	49.95	34.9	13.21	57.36	-	-	P	V
		8124.75	41.05	-32.95	74	45.98	36.2	16.54	57.67	-	-	P	V
		9027.5	44.86	-29.14	74	49.24	36.5	17.79	58.67	-	-	P	V



RFID	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
RFID 914.75MHz		2744.25	41.28	-32.72	74	58.13	32.6	9.64	59.09	-	-	P	H
		3659	43.98	-30.02	74	58.84	33.4	10.96	59.22	397	19	P	H
		3659	41.65	-12.35	54	56.51	33.4	10.96	59.22	397	19	A	H
		4573.75	41.59	-32.41	74	53.51	34.44	12.53	58.89	-	-	P	H
		7318	41.53	-32.47	74	47.84	36	15.38	57.69	-	-	P	H
		8232.75	41.17	-32.83	74	46.14	36.2	16.47	57.64	-	-	P	H
		9147.5	44.57	-29.43	74	49.04	36.59	17.95	59.01	-	-	P	H
		2744.25	41.72	-32.28	74	58.57	32.6	9.64	59.09	-	-	P	V
		3659	46.17	-27.83	74	61.03	33.4	10.96	59.22	100	283	P	V
		3659	45.25	-8.75	54	60.11	33.4	10.96	59.22	100	283	A	V
		4573.75	42.8	-31.2	74	54.72	34.44	12.53	58.89	-	-	P	V
		7318	42.34	-31.66	74	48.65	36	15.38	57.69	-	-	P	V
		8232.75	41.72	-32.28	74	46.69	36.2	16.47	57.64	-	-	P	V
		9147.5	44.57	-29.43	74	49.04	36.59	17.95	59.01	-	-	P	V



RFID	Note	Frequency (MHz)	Level (dBμV/m)	Margin (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
RFID 927.25MHz		2781.75	45.71	-28.29	74	62.37	32.7	9.74	59.1	293	196	P	H
		2781.75	44.58	-9.42	54	61.24	32.7	9.74	59.1	293	196	A	H
		3709	42.09	-31.91	74	56.81	33.42	11.09	59.23	239	304	P	H
		3709	40.38	-13.62	54	55.1	33.42	11.09	59.23	239	304	A	H
		4636.25	41.46	-32.54	74	52.92	34.67	12.63	58.76	-	-	P	H
		7418	40.46	-33.54	74	46.9	36	15.43	57.87	-	-	P	H
		8345.25	42.53	-31.47	74	47.45	36.19	16.51	57.62	-	-	P	H
		2781.75	44.72	-29.28	74	61.38	32.7	9.74	59.1	121	185	P	V
		2781.75	43.85	-10.15	54	60.51	32.7	9.74	59.1	121	185	A	V
		3709	47.34	-26.66	74	62.06	33.42	11.09	59.23	328	220	P	V
		3709	44.58	-9.42	54	59.3	33.42	11.09	59.23	328	220	A	V
		4636.25	41.36	-32.64	74	52.82	34.67	12.63	58.76	-	-	P	V
		7418	40.61	-33.39	74	47.05	36	15.43	57.87	-	-	P	V
		8345.25	41.63	-32.37	74	46.55	36.19	16.51	57.62	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line. 3. Non restricted band limit is radio frequency level down 20db. 4. The emission position marked as "-" means no suspected emission found and emission level has at least 6dB margin against limit or emission is noise floor only.												



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is over limit line.
P/A	P eak or A verage
H/V	H orizontal or V ertical



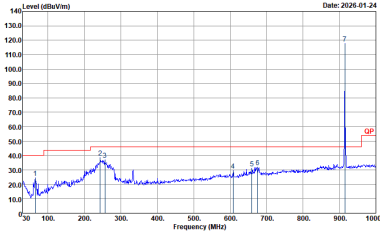
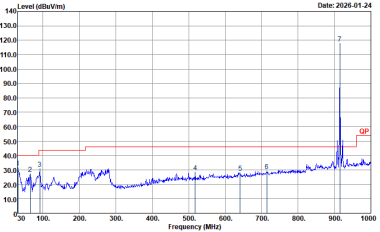
Appendix B. Radiated Spurious Emission Plots

Test Engineer :	Jesse Wang, Stan Hsieh, and Ken Wu	Temperature :	18.2~21.3°C
		Relative Humidity :	56.4~68.6%

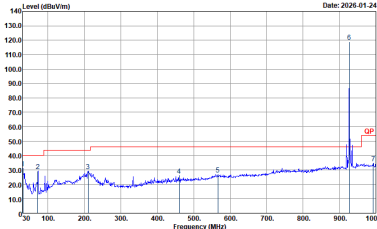
RFID (LF @ 3m)

RFID	RFID	
	RFID 902.75MHz	
	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35415(6)_H HORIZONTAL Detector : Peak Project : 5D1504 Mode : 1	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35415(6)_H VERTICAL Detector : Peak Project : 5D1504 Mode : 1



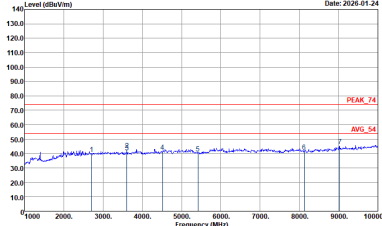
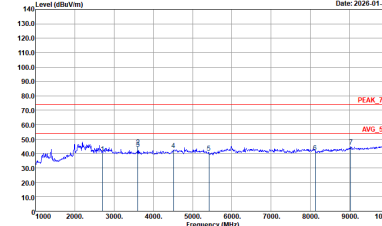
RFID	RFID	
	RFID 914.75MHz	
	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H HORIZONTAL Detector : Peak Project : 501504 Mode : 2	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H VERTICAL Detector : Peak Project : 501504 Mode : 2



RFID	RFID	
	RFID 927.25MHz	
	Horizontal	Vertical
QP / Peak	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H HORIZONTAL Detector : Peak Project : 501504 Mode : 3	 Site : 03CH07-HY Condition : QP 3m LF-ANT-35419(6)_H VERTICAL Detector : Peak Project : 501504 Mode : 3



RFID (Harmonic @ 3m)

RFID	RFID	
	RFID 902.75MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2026-01-24  Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 501504 Mode : 1	Level (dBuV/m) Date: 2026-01-24  Site : 03CH07-HY Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 501504 Mode : 1



RFID	RFID	
	RFID 914.75MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2026-01-24 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 5D1504 Mode : 2	Level (dBuV/m) Date: 2026-01-24 Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 5D1504 Mode : 2



RFID	RFID	
	RFID 927.25MHz	
	Horizontal	Vertical
Peak Avg.	Level (dBuV/m) Date: 2026-01-24 Frequency (MHz) Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 HORIZONTAL Detector : Peak Project : 5D1504 Mode : 3	Level (dBuV/m) Date: 2026-01-24 Frequency (MHz) Site : 03CH07-4Y Condition : PEAK_74 3m HF_ANT_00075962 VERTICAL Detector : Peak Project : 5D1504 Mode : 3



Appendix C. Duty Cycle Plots

Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
UHF RFID	100.00	-	-	10Hz

