RF MEASUREMENT REPORT

Applicant:	Life Fitness
Address:	10601 W. Belmont Ave., Franklin Park, IL 60131
Product Marketing Name:	LFSCRF
Model No.:	LFSCRF
FCC Rule(s):	Part 15 Subpart C (Section 15.247 (d))
	Part 15 Subpart C (Section 15.225(d))
	Part 15 Subpart C (Section 15.209)
ISED Rule(s):	RSS-247 Issue 2 (Section 5.5)
	RSS-Gen Issue 5 (Section 8.9)
	RSS-210 Issue 10 Annex B [B.6(iv)],
Test Date:	November 03 ~ 30, 2021

Reviewed By: Sunny Sun

Approved By: Robin Wu

ACCREDITED
TESTING LABORATORY
CERTIFICATE #3628.01

Revision History

Report No.	Version	Description	Issue Date	Note
2110RSU051-U5	Rev. 01	Initial Report	01-25-2022	Valid

CONTENTS

1. General Information

1.1. Applicant

Life Fitness

10601 W. Belmont Ave., Franklin Park, IL 60131

1.2. Manufacturer

Life Fitness

10601 W. Belmont Ave., Franklin Park, IL 60131

1.3. Testing Facility

☒	**Test Site – MRT Suzhou Laboratory**				
	Laboratory Location (Suzhou - Wuzhong)				
	D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China				
	Laboratory Location (Suzhou - SIP)				
	4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China				
	Laboratory Accreditations				
	A2LA: 3628.01		CNAS: L10551		
	FCC: CN1166		ISED: CN0001		
	VCCI:	☐R-20025	☐G-20034	☐C-20020	☐T-20020
		☐R-20141	☐G-20134	☐C-20103	☐T-20104
☐	**Test Site – MRT Shenzhen Laboratory**				
	Laboratory Location (Shenzhen)				
	1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China				
	Laboratory Accreditations				
	A2LA: 3628.02		CNAS: L10551		
	FCC: CN1284		ISED: CN0105		
☐	**Test Site – MRT Taiwan Laboratory**				
	Laboratory Location (Taiwan)				
	No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)				
	Laboratory Accreditations				
	TAF: L3261-190725				
	FCC: 291082, TW3261		ISED: TW3261		

1.4. Product Information

Product Marketing Name	LFSCRF
Model No.	LFSCRF
HMN	SMARTconnect
Firmware Version	v1.0
Test Device Label No.	20211026Sample#11
EUT Type	Portable Device
Exposure Category	General Population/Uncontrolled Exposure
Remark: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.	

1.5. Description of Host

Host Name	SMARTconnect
Model No.	LT
Company Name	Life Fitness
Wi-Fi Specification	802.11b/g/n
Bluetooth Version	V5.0 only for BLE
ANT	2.4G proprietary protocol
RFID	13.56MHz, 125kHz
Antenna Information	Refer to section 1.7
Power Supply	Dry Battery (6V dc, 400mA)
Integrated Modular Information	
BT/ANT+ Module	Module Name: Bluetooth 5.0 BLE Data Module FCC ID: SQGBL654 IC: 3147A-BL654
Wifi module	Product Marketing Name: LFSCRF FCC ID: LM6-LFSCRF IC: 23315-LFSCRF
RFID module	Module Name: TWN4 MultiTech 3 FCC ID: WP5TWN4F4 IC: 7948A-TWN4F4

1.6. Antennas Details

Antenna Type	Frequency Band	T_X Paths	Antenna Gain (dBi)
2.4G Wi-Fi			
PCB	2412 ~ 2462 MHz	1	3.40
Bluetooth-LE			
PCB Dipole	2402 ~ 2480 MHz	1	2.00
ANT			
PCB Dipole	2425 MHz	1	2.00
RFID			
PCB	125 kHz	1	N/A
	13.56 MHz	1	0.00

2. Test Configuration

2.1. Test Mode

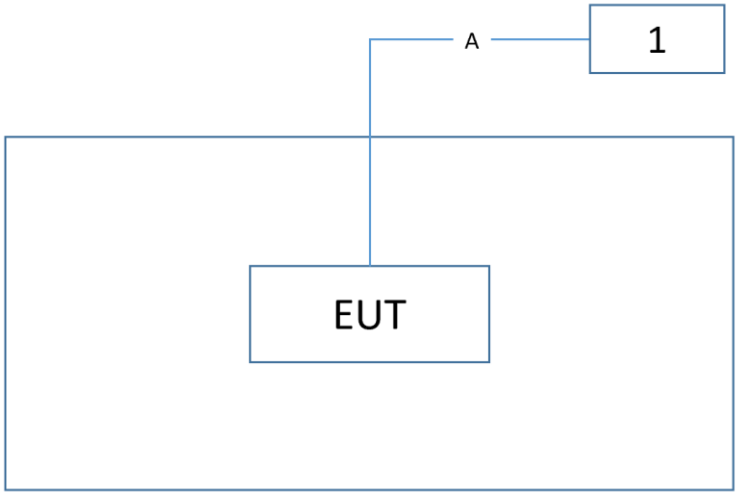
Test Mode	Mode 1: Transmit by 802.11b (2462MHz) + BLE (2402MHz, 2426MHz, 2480Mhz) + RFID (13.56MHz)
	Mode 2: Transmit by 802.11b (2462MHz) + ANT (2425MHz) + RFID (13.56MHz)
	Mode 3: Transmit by 802.11b (2462MHz) + BLE (2402MHz, 2426MHz, 2480Mhz) + RFID (125kHz)
	Mode 4: Transmit by 802.11b (2462MHz) + ANT (2425MHz) + RFID (125kHz)

Note: The above testing scenarios were provided by the manufacturer, these are the worst case.

2.2. Test System Connection Diagram

The device was tested per the guidance ANSI C63.10: 2013 was used to reference the appropriate EUT setup for radiated emissions testing.

Connection Diagram - Radiated Emission Testing



Cable Type		Cable Description
A	Serial Connect Cable	Non-shielded, < 2.0 m

Product		Manufacturer	Model No.
1	Notebook	Lenovo	E495

Remark: The Notebook was removed after EUT entered transmit mode.

2.3. Test Software

The test utility software used during testing was “Sunfire Release” and version was 0.1.0. & “EspRFTestTool”, and the version was v2.8.

2.4. Test Environment Condition

Ambient Temperature	15°C ~ 35°C
Relative Humidity	20%RH ~ 75%RH

3. Measuring Instrument

No.	Instrument	Manufacturer	Model No.	Asset No.	Last Cali. Date	Cali. Due Date	Test Site
1	EMI Test Receiver	R&S	ESR7	MRTSUE06001	1 year	2022/1/4	WZ-AC1
2	Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06023	1 year	2022/9/16	WZ-AC1
3	Preamplifier	Agilent	83017A	MRTSUE06076	1 year	2022/11/12	WZ-AC1
4	TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06172	1 year	2022/08/05	WZ-AC1
5	Thermohygrometer	Yuhuaze	HTC-2	MRTSUE06184	1 year	2022/80/10	WZ-AC1
6	Anechoic Chamber	TDK	WZ-AC1	MRTSUE06212	1 year	2022/04/29	WZ-AC1
7	Thermohygrometer	testo	608-H1	MRTSUE06403	1 year	2022/06/28	WZ-AC1
8	Signal Analyzer	Keysight	N9010B	MRTSUE06607	1 year	2022/01/06	WZ-AC1
9	Loop Antenna	Schwarzbeck	FMZB 1519	MRTSUE06025	1 year	202210/28	WZ-AC1/WZ-AC2
10	Horn Antenna	ETS	3117	MRTSUE06257	1 year	2022/9/25	WZ-AC1/WZ-AC2

Software	Version	Function
EMI Software	V3	EMI Test Software

4. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Radiated Disturbance
Measurement Uncertainty for a Level of Confidence of 95% (U=2Uc(y)): Horizontal: 9KHz~300MHz: 5.04dB 300MHz~1GHz: 4.95dB 1GHz~26GHz: 6.40dB Vertical: 9KHz~300MHz: 5.24dB 300MHz~1GHz: 6.03dB 1GHz~26GHz: 6.40dB

5. Radiated Emissions for Co-located

5.1. Test Limit

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

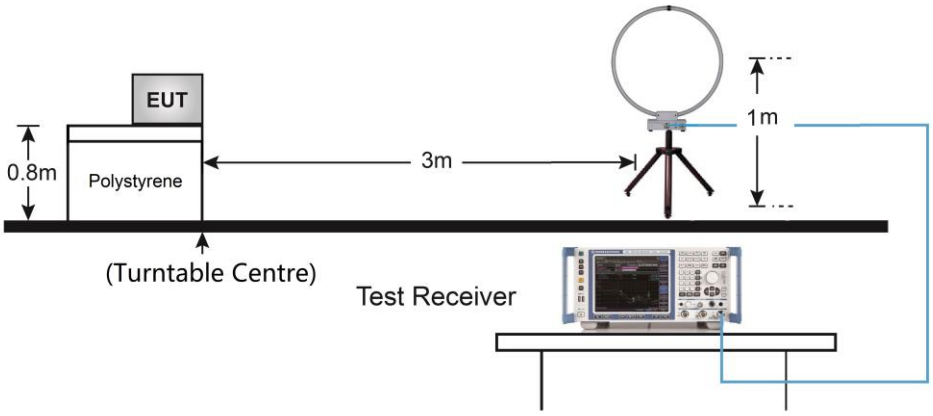
FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [uV/m]	Measured Distance [Meters]
0.009 - 0.490	2400/F (kHz)	300
0.490 - 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

All out of band emissions appearing in a restricted band as specified in Section 8.10 of the RSS-GEN Issue 5 must not exceed the limits shown in Table per Section 8.9.

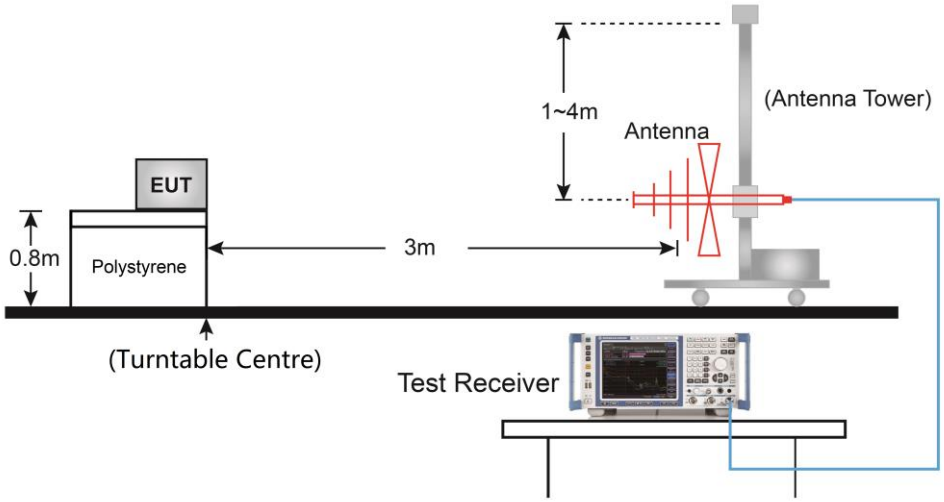
RSS-Gen Section 8.9			
Frequency (MHz)	Field Strength (μV/m)	Magnetic Field Strength (H-Field) (μA/m)	Measured Distance (m)
0.009 - 0.4901	--	6.37/F (F in kHz)	300
0.490 - 1.705	--	63.7/F (F in kHz)	30
1.705 - 30	--	0.08	30
30 - 88	100	--	3
88 - 216	150	--	3
216 - 960	200	--	3
Above 960	500	--	3

5.2. Test Setup

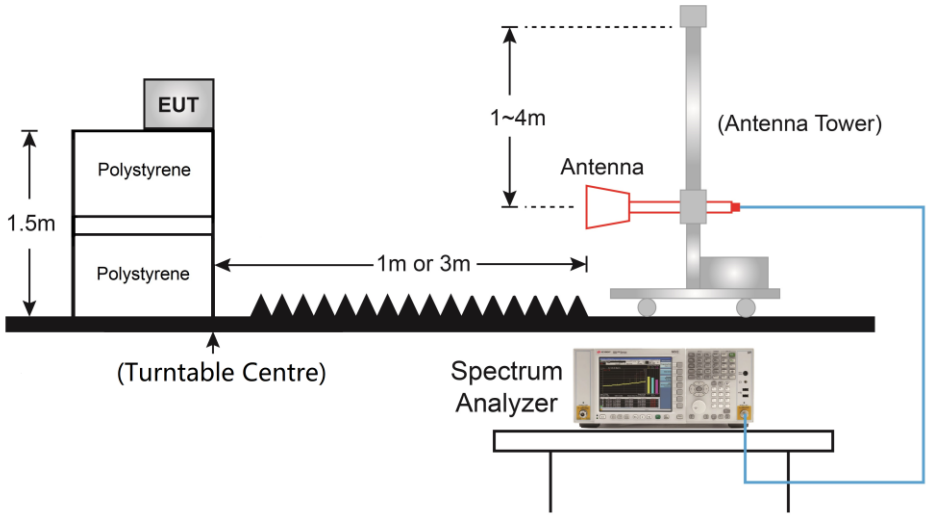
Below 30MHz Test Setup:



30MHz ~ 1GHz Test Setup:



Above 1GHz Test Setup:



5.3. Test Result

Test Site	WZ-AC1	Test Engineer	Messiah Li
Test Date	2021/11/03 & 2021/11/30	Test Mode	Mode 1

Below 30MHz:

Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
Face On						
0.17	26.37	17.18	43.55	103.00	-59.45	Peak
0.88	16.08	17.49	33.57	68.71	-35.14	Peak
27.12	6.34	17.21	23.55	69.54	-45.99	Peak
Face Off						
0.02	41.46	19.39	60.85	121.58	-60.73	Peak
3.82	27.46	17.54	45.00	69.54	-24.54	Peak
27.12	5.81	17.21	23.02	69.54	-46.52	Peak

Below 30MHz:

Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB/m)	Measure Level (dBμV/m)	Measure Level (dBμA/m)	Limit (dBμA/m)	Margin (dB)	Detector
Face On							
0.17	26.37	17.18	43.55	-7.95	51.47	-59.42	Peak
0.88	16.08	17.49	33.57	-17.93	-2.81	-15.12	Peak
27.12	6.34	17.21	23.55	-27.95	18.06	-46.01	Peak
Face Off							
0.02	41.46	19.39	60.85	9.35	70.06	-60.71	Peak
3.82	27.46	17.54	45.00	-6.50	18.06	-24.56	Peak
27.12	5.81	17.21	23.02	-28.48	18.06	-46.54	Peak

Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
30MHz ~ 1GHz							
41.64	7.04	18.01	25.05	40.00	-14.95	Peak	Horizontal
149.31	9.37	18.05	27.42	43.50	-16.08	Peak	Horizontal
243.89	26.22	16.15	42.37	46.00	-3.63	Peak	Horizontal
272.30	23.28	17.34	40.62	46.00	-5.38	QP	Horizontal
372.41	21.83	20.11	41.94	46.00	-4.06	Peak	Horizontal
418.20	16.74	21.17	37.91	46.00	-8.09	QP	Horizontal
43.58	17.15	18.51	35.66	40.00	-4.34	Peak	Vertical
83.35	18.78	12.66	31.44	40.00	-8.56	Peak	Vertical
253.10	20.18	16.41	36.59	46.00	-9.41	Peak	Vertical
336.52	19.35	19.31	38.66	46.00	-7.34	Peak	Vertical
396.66	20.96	20.62	41.58	46.00	-4.42	Peak	Vertical
427.22	15.49	21.60	37.09	46.00	-8.91	Peak	Vertical
1GHz ~ 18GHz							
4927.00	46.05	4.22	50.27	74.00	-23.73	Peak	Horizontal
9168.50	37.00	11.86	48.86	74.00	-25.14	Peak	Horizontal
11599.50	36.32	13.05	49.37	74.00	-24.63	Peak	Horizontal
4924.02	49.42	4.22	53.64	54.00	-0.36	Average	Vertical
4927.00	49.98	4.22	54.20	74.00	-19.80	Peak	Vertical
8148.50	37.00	9.56	46.56	74.00	-27.44	Peak	Vertical
11021.50	35.86	13.73	49.59	74.00	-24.41	Peak	Vertical
18GHz ~ 26GHz							
20608.00	56.65	-9.16	47.49	74.00	-26.51	Peak	Horizontal
22572.00	53.80	-7.56	46.24	74.00	-27.76	Peak	Horizontal
23920.00	53.66	-7.51	46.15	74.00	-27.85	Peak	Horizontal
20628.00	56.56	-9.09	47.47	74.00	-26.54	Peak	Vertical
22580.00	52.91	-7.63	45.28	74.00	-28.72	Peak	Vertical
23896.00	54.53	-7.21	47.32	74.00	-26.68	Peak	Vertical

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 2: Measurements below 30MHz were tested at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear extrapolation factor (40 dB/decade) as specified in &15.31(f)(2).

Extrapolation Factor = 40*Log (30/3) = 40 dB.

dBμA/m = dBμV/m - 51.5

Note 3: For below 1GHz, Quasi-peak measurement was not performed if peak level lower than quasi-peak limit.

For above 1GHz, Average measurement was not performed if peak level lower than average limit.

Note 4: Within 1GHz-26GHz, frequencies that were 20dB below the limit, were not shown in the report.

Test Site	WZ-AC1	Test Engineer	Messiah Li
Test Date	2021/11/03 & 2021/11/30	Test Mode	Mode 2

Below 30MHz:

Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
Face On						
0.02	51.80	18.90	70.70	121.58	-50.88	Peak
0.46	19.06	17.27	36.33	94.35	-58.02	Peak
27.12	7.02	17.21	24.23	69.54	-45.31	Peak
Face Off						
0.02	39.22	18.90	58.12	121.58	-63.46	Peak
0.34	19.64	17.20	36.84	96.97	-60.13	Peak
27.12	6.25	17.21	23.46	69.54	-46.08	Peak

Below 30MHz:

Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB/m)	Measure Level (dBμV/m)	Measure Level (dBμA/m)	Limit (dBμA/m)	Margin (dB)	Detector
Face On							
0.02	51.80	18.90	70.70	19.20	70.06	-50.86	Peak
0.46	19.06	17.27	36.33	-15.17	42.83	-58.00	Peak
27.12	7.02	17.21	24.23	-27.27	18.06	-45.33	Peak
Face Off							
0.02	39.22	18.90	58.12	6.62	70.06	-63.44	Peak
0.34	19.64	17.20	36.84	-14.66	45.45	-60.11	Peak
27.12	6.25	17.21	23.46	-28.04	18.06	-46.10	Peak

Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
30MHz ~ 1GHz							
113.42	10.91	14.72	25.63	43.50	-17.87	Peak	Horizontal
151.25	10.34	18.11	28.45	43.50	-15.05	Peak	Horizontal
245.80	23.50	16.22	39.72	46.00	-6.28	QP	Horizontal
275.90	24.02	17.52	41.54	46.00	-4.46	Peak	Horizontal
345.74	21.48	19.31	40.79	46.00	-5.21	Peak	Horizontal
398.80	24.76	20.65	45.41	46.00	-0.59	QP	Horizontal
41.64	18.44	18.01	36.45	40.00	-3.55	Peak	Vertical
71.71	12.23	15.55	27.78	40.00	-12.22	Peak	Vertical
113.42	12.11	14.72	26.83	43.50	-16.67	Peak	Vertical
243.89	19.36	16.15	35.51	46.00	-10.49	Peak	Vertical
340.40	20.24	19.32	39.56	46.00	-6.44	Peak	Vertical
415.80	22.27	21.07	43.34	46.00	-2.66	QP	Vertical
1GHz ~ 18GHz							
4927.00	46.44	4.22	50.66	74.00	-23.34	Peak	Horizontal
8106.00	37.27	9.56	46.83	74.00	-27.17	Peak	Horizontal
11642.00	36.26	12.93	49.19	74.00	-24.81	Peak	Horizontal
4924.02	49.41	4.22	53.63	54.00	-0.37	Average	Vertical
4927.00	49.63	4.22	53.85	74.00	-20.15	Peak	Vertical
7434.50	35.20	8.91	44.11	74.00	-29.89	Peak	Vertical
11293.50	36.20	13.45	49.65	74.00	-24.35	Peak	Vertical
18GHz ~ 26GHz							
20660.00	55.54	-9.07	46.47	74.00	-27.53	Peak	Horizontal
22644.00	53.89	-8.29	45.60	74.00	-28.40	Peak	Horizontal
23876.00	53.16	-6.84	46.32	74.00	-27.68	Peak	Horizontal
20640.00	56.43	-9.07	47.36	74.00	-26.64	Peak	Vertical
22648.00	53.63	-8.27	45.37	74.00	-28.63	Peak	Vertical
23956.00	53.49	-7.39	46.11	74.00	-27.90	Peak	Vertical

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 2: Measurements below 30MHz were tested at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear extrapolation factor (40 dB/decade) as specified in &15.31(f)(2).

Extrapolation Factor = 40*Log (30/3) = 40 dB.

dBμA/m = dBμV/m - 51.5

Note 3: For below 1GHz, Quasi-peak measurement was not performed if peak level lower than quasi-peak limit.

For above 1GHz, Average measurement was not performed if peak level lower than average limit.

Note 4: Within 1GHz-26GHz, frequencies that were 20dB below the limit, were not shown in the report.

Test Site	WZ-AC1	Test Engineer	Messiah Li
Test Date	2021/11/03 & 2021//11/30	Test Mode	Mode 3

Below 30MHz:

Out-Band Emission Below 30MHz						
Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
Face On						
0.17	30.06	17.18	47.24	103.00	-55.76	Peak
1.06	16.96	17.51	34.47	67.10	-32.63	Peak
3.84	15.85	17.54	33.39	69.54	-36.15	Peak
Face Off						
0.17	27.46	17.18	44.64	103.00	-58.36	Peak
0.27	21.57	17.18	38.75	98.98	-60.23	Peak
1.09	16.24	17.51	33.75	69.54	-35.79	Peak

Below 30MHz:

Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB/m)	Measure Level (dBμV/m)	Measure Level (dBμA/m)	Limit (dBμA/m)	Margin (dB)	Detector
Face On							
0.17	30.06	17.18	47.24	-4.26	51.47	-55.73	Peak
1.06	16.96	17.51	34.47	-17.03	67.10	-32.61	Peak
3.84	15.85	17.54	33.39	-18.11	18.06	-36.17	Peak
Face Off							
0.17	27.46	17.18	44.64	-6.86	103.00	-58.33	Peak
0.27	21.57	17.18	38.75	-12.75	98.98	-60.21	Peak
1.09	16.24	17.51	33.75	-17.75	69.54	-13.08	Peak

Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
30MHz ~ 1GHz							
54.74	5.32	18.21	23.53	40.00	-16.47	Peak	Horizontal
138.16	8.75	17.27	26.02	43.50	-17.48	Peak	Horizontal
240.00	23.78	15.92	39.70	46.00	-6.30	QP	Horizontal
273.96	20.90	17.43	38.33	46.00	-7.67	Peak	Horizontal
381.63	21.62	20.35	41.97	46.00	-4.03	Peak	Horizontal
421.40	19.51	21.31	40.82	46.00	-5.18	Peak	Horizontal
35.82	12.41	17.14	29.55	40.00	-10.45	Peak	Vertical
54.74	10.11	18.21	28.32	40.00	-11.68	Peak	Vertical
139.61	10.43	17.42	27.85	43.50	-15.65	Peak	Vertical
236.13	18.52	15.51	34.03	46.00	-11.97	Peak	Vertical
364.65	18.19	19.83	38.02	46.00	-7.98	Peak	Vertical
392.78	19.95	20.56	40.51	46.00	-5.49	Peak	Vertical
1GHz ~ 18GHz							
4927.00	46.33	4.22	50.55	74.00	-23.45	Peak	Horizontal
7613.00	37.30	8.60	45.90	74.00	-28.10	Peak	Horizontal
12228.50	37.18	12.96	50.14	74.00	-23.86	Peak	Horizontal
4924.04	49.34	4.22	53.56	54.00	-0.44	Average	Vertical
4927.00	49.49	4.22	53.71	74.00	-20.29	Peak	Vertical
7502.50	36.78	8.94	45.72	74.00	-28.28	Peak	Vertical
11625.00	37.22	12.79	50.01	74.00	-23.99	Peak	Vertical
18GHz ~ 26GHz							
20584.00	55.18	-9.07	46.11	74.00	-27.89	Peak	Horizontal
22252.00	52.73	-7.55	45.17	74.00	-28.83	Peak	Horizontal
23892.00	52.98	-6.94	46.03	74.00	-27.97	Peak	Horizontal
19536.00	55.68	-10.05	45.64	74.00	-28.36	Peak	Vertical
22756.00	53.70	-8.41	45.29	74.00	-28.71	Peak	Vertical
23876.00	53.78	-6.84	46.94	74.00	-27.06	Peak	Vertical

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 2: Measurements below 30MHz were tested at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear extrapolation factor (40 dB/decade) as specified in &15.31(f)(2).

Extrapolation Factor = 40*Log (30/3) = 40 dB.

dBμA/m = dBμV/m - 51.5

Note 3: For below 1GHz, Quasi-peak measurement was not performed if peak level lower than quasi-peak limit.

For above 1GHz, Average measurement was not performed if peak level lower than average limit.

Note 4: Within 1GHz-26GHz, frequencies that were 20dB below the limit, were not shown in the report.

Test Site	WZ-AC1	Test Engineer	Messiah Li
Test Date	2021/11/03 & 2021/11/30	Test Mode	Mode 4

Below 30MHz:

Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
Face On						
0.18	27.88	17.18	45.06	102.50	-57.44	Peak
0.37	22.65	17.22	39.87	96.24	-56.37	Peak
0.97	18.15	17.51	35.66	67.87	-32.21	Peak
Face Off						
0.17	27.71	17.18	44.89	103.00	-58.11	Peak
1.23	17.51	17.51	35.02	65.81	-30.79	Peak
1.49	17.57	17.51	35.08	64.14	-29.06	Peak

Below 30MHz:

Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB/m)	Measure Level (dBμV/m)	Measure Level (dBμA/m)	Limit (dBμA/m)	Margin (dB)	Detector
Face On							
0.18	27.88	17.18	45.06	-6.44	50.98	-57.42	Peak
0.37	22.65	17.22	39.87	-11.63	44.72	-56.35	Peak
0.97	18.15	17.51	35.66	-15.84	16.35	-32.19	Peak
Face Off							
0.17	27.71	17.18	44.89	-6.61	51.47	-58.08	Peak
1.23	17.51	17.51	35.02	-16.48	14.29	-30.77	Peak
1.49	17.57	17.51	35.08	-16.42	12.62	-29.04	Peak

Frequency (MHz)	Reading Level (dBμV/m)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
30MHz ~ 1GHz							
52.80	5.56	18.31	23.87	40.00	-16.13	Peak	Horizontal
141.55	9.49	17.58	27.07	43.50	-16.43	Peak	Horizontal
200.24	14.41	14.31	28.72	43.50	-14.78	Peak	Horizontal
239.90	25.64	15.91	41.55	46.00	-4.45	QP	Horizontal
362.71	20.68	19.75	40.43	46.00	-5.57	Peak	Horizontal
387.45	21.31	20.46	41.77	46.00	-4.23	Peak	Horizontal
35.82	12.08	17.14	29.22	40.00	-10.78	Peak	Vertical
52.80	11.45	18.31	29.76	40.00	-10.24	Peak	Vertical
139.61	10.04	17.42	27.46	43.50	-16.04	Peak	Vertical
230.31	18.48	14.75	33.23	46.00	-12.77	Peak	Vertical
364.65	19.07	19.83	38.90	46.00	-7.10	Peak	Vertical
400.54	19.60	20.68	40.28	46.00	-5.72	Peak	Vertical
1GHz ~ 18GHz							
4927.00	45.72	4.22	49.94	74.00	-24.06	Peak	Horizontal
7375.00	36.64	8.91	45.55	74.00	-28.45	Peak	Horizontal
11582.50	37.46	13.04	50.50	74.00	-23.50	Peak	Horizontal
4924.12	49.41	4.22	53.63	54.00	-0.37	Average	Vertical
4927.00	49.62	4.22	53.84	74.00	-20.16	Peak	Vertical
7715.00	37.42	8.75	46.17	74.00	-27.83	Peak	Vertical
12067.00	36.38	12.82	49.20	74.00	-24.80	Peak	Vertical
18GHz ~ 26GHz							
18768.00	57.54	-10.22	47.33	74.00	-26.68	Peak	Horizontal
22880.00	52.72	-7.39	45.33	74.00	-28.67	Peak	Horizontal
23928.00	53.20	-7.34	45.86	74.00	-28.14	Peak	Horizontal
19876.00	55.93	-10.01	45.92	74.00	-28.08	Peak	Vertical
22268.00	52.74	-7.35	45.38	74.00	-28.62	Peak	Vertical
23896.00	53.29	-7.21	46.09	74.00	-27.92	Peak	Vertical

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Note 2: Measurements below 30MHz were tested at 3m and the data was extrapolated to the specified measurement distance of 30m using the square of an inverse linear extrapolation factor (40 dB/decade) as specified in &15.31(f)(2).

Extrapolation Factor = 40*Log (30/3) = 40 dB.

dBμA/m = dBμV/m - 51.5

Note 3: For below 1GHz, Quasi-peak measurement was not performed if peak level lower than quasi-peak limit.
For above 1GHz, Average measurement was not performed if peak level lower than average limit.
Note 4: Within 1GHz-26GHz, frequencies that were 20dB below the limit, were not shown in the report.

The End

Appendix A - Test Setup Photograph

Refer to “2110RSU051-UT” file.

Appendix B - EUT Photograph

Refer to “2110RSU051-UE” file.