

TEST REPORT

Applicant: Jiangsu Shushi Technology Co., Ltd.

Address of Applicant: NO.9 Nanxu Road,RunZhou District,Zhenjiang,Jiangsu,China

Manufacturer Jiangsu Shushi Technology Co., Ltd.

Address of Manufacturer: NO.9 Nanxu Road,RunZhou District,Zhenjiang,Jiangsu,China

Equipment Under Test (EUT)

Product Name: Smart Soil Moisture Sensor Gen2

Model No.: 3RSM0347Z

FCC ID: 2BAGQ-3RSM0347Z

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of sample receipt: November 18, 2025

Date of Test: December 10, 2025-January 28, 2026

Date of report issued: January 28, 2026

Test Result : PASS *

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Laboratory Manager

This results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

2 Version

Version No.	Date	Description
00	January 28, 2026	Original

Tested By:

Jauch. Gai

Date:

January 28, 2026

Test Engineer

Prepared By:

Jianliu

Date:

January 28, 2026

Project Engineer

Check By:

Robinson Lu

Date:

January 28, 2026

Reviewer

3 Contents

	Page
1 COVER PAGE	1
2 VERSION	2
3 CONTENTS	3
4 TEST SUMMARY	4
5 GENERAL INFORMATION	5
5.1 GENERAL DESCRIPTION OF EUT	5
5.2 TEST MODE	7
5.3 DESCRIPTION OF SUPPORT UNITS	7
5.4 DEVIATION FROM STANDARDS	7
5.5 ABNORMALITIES FROM STANDARD CONDITIONS	7
5.6 TEST FACILITY	7
5.7 TEST LOCATION	7
5.8 ADDITIONAL INSTRUCTIONS	7
6 TEST INSTRUMENTS LIST	8
7 TEST RESULTS AND MEASUREMENT DATA	10
7.1 ANTENNA REQUIREMENT	10
7.2 CONDUCTED OUTPUT POWER	11
7.3 CHANNEL BANDWIDTH	12
7.4 POWER SPECTRAL DENSITY	13
7.5 SPURIOUS EMISSION IN NON-RESTRICTED & RESTRICTED BANDS	14
7.5.1 Conducted Emission Method	14
7.5.2 Radiated Emission Method	15
8 TEST SETUP PHOTO	42
EUT CONSTRUCTIONAL DETAILS	42

4 Test Summary

Test Item	Section in CFR 47	Result
Antenna requirement	15.203/15.247 (c)	Pass
AC Power Line Conducted Emission	15.207	N/A
Conducted Output Power	15.247 (b)(3)	Pass
Channel Bandwidth	15.247 (a)(2)	Pass
Power Spectral Density	15.247 (e)	Pass
Band Edge	15.247(d)	Pass
Spurious Emission	15.205/15.209/15.247(c)	Pass

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10:2020
3. N/A: Not applicable.

Measurement Uncertainty

No.	Item	Measurement Uncertainty
1	Radio Frequency	$\pm 7.25 \times 10^{-8}$
2	Duty cycle	$\pm 0.37\%$
3	Occupied Bandwidth	$\pm 3\%$
4	RF conducted power	$\pm 0.75\text{dB}$
5	RF power density	$\pm 3\text{dB}$
6	Conducted Spurious emissions	$\pm 2.58\text{dB}$
7	AC Power Line Conducted Emission	$\pm 3.44\text{dB}$ (0.15MHz ~ 30MHz)
8	Radiated Spurious emission test	$\pm 3.1\text{dB}$ (9kHz-30MHz)
		$\pm 3.8039\text{dB}$ (30MHz-200MHz)
		$\pm 3.9679\text{dB}$ (200MHz-1GHz)
		$\pm 4.29\text{dB}$ (1GHz-18GHz)
		$\pm 3.30\text{dB}$ (18GHz-40GHz)
9	Temperature test	$\pm 1^\circ\text{C}$
10	Humidity test	$\pm 3\%$
11	Time	$\pm 3\%$

5 General Information

5.1 General Description of EUT

Product Name:	Smart Soil Moisture Sensor Gen2
Model No.:	3RSM0347Z
Test sample(s) ID:	GTSL2026010327-1
Sample(s) Status:	Engineer sample
S/N:	/
Operation Frequency:	2405MHz~2480MHz
Channel Numbers:	16
Channel Separation:	5MHz
Modulation Type:	O-QPSK
Data Rate:	/
Antenna Type:	Single Ceramic Antenna
Antenna gain:	2dBi
Power supply:	DC1.5V(1*AA)

Disclaimer statement:

1. Antenna gain information provided by the customer, and the laboratory is not responsible for its authenticity.
2. The information in this section is provided by the applicant or manufacturer, GTS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Channel	Frequency	Channel	Frequency	Channel	Frequency
11	2405 MHz	12	2410 MHz	13	2415 MHz
14	2420 MHz	15	2425 MHz	16	2430 MHz
17	2435 MHz	18	2440 MHz	19	2445 MHz
20	2450 MHz	21	2455 MHz	22	2460 MHz
23	2465 MHz	24	2470 MHz	25	2475 MHz
26	2480 MHz				

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel	2405MHz
The middle channel	2440MHz
The Highest channel	2480MHz

5.2 Test mode

Transmitting mode	Keep the EUT in continuously transmitting mode.
-------------------	---

5.3 Description of Support Units

Manufacturer	Description	Model	Serial Number
Lenovo	PC Host	M6900	EA05257893

5.4 Deviation from Standards

None.

5.5 Abnormalities from Standard Conditions

None.

5.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations: ● FCC—Registration No.: 381383 Designation Number: CN5029 Global United Technology Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in files. ● ISED—Registration No.: 9079A CAB identifier: CN0091 The 3m Semi-anechoic chamber of Global United Technology Services Co., Ltd. has been registered by Certification and Engineering Bureau of ISED for radio equipment testing ● NVLAP (LAB CODE:600179-0) Global United Technology Services Co., Ltd., is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP).
--

5.7 Test Location

All tests were performed at:
Global United Technology Services Co., Ltd. Address: No. 123-128, Tower A, Jinyuan Business Building, No.2, Laodong Industrial Zone, Xixiang Road, Baoan District, Shenzhen, Guangdong, China 518102 Tel: 0755-27798480 Fax: 0755-27798960

5.8 Additional Instructions

Test Software	Special test software provided by manufacturer
Power level setup	Default

6 Test Instruments list

Radiated Emission:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	3m Semi- Anechoic Chamber	ZhongYu Electron	9.2(L)*6.2(W)* 6.4(H)	GTS250	Apr. 11, 2025	Apr. 10, 2026
2	Control Room	ZhongYu Electron	6.2(L)*2.5(W)* 2.4(H)	GTS251	N/A	N/A
3	EMI Test Receiver	Rohde & Schwarz	ESU26	GTS203	Apr. 12, 2025	Apr. 11, 2026
4	BiConiLog Antenna	SCHWARZBECK MESS-ELEKTRONIK	VULB9168	GTS640	Apr. 12, 2025	Apr. 11, 2026
5	Double -ridged waveguide horn	SCHWARZBECK MESS-ELEKTRONIK	BBHA 9120 D	GTS208	Apr. 11, 2025	Apr. 10, 2026
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	GTS575	Jul. 01, 2025	Jun. 30, 2026
7	Loop Antenna	ZHINAN	ZN30900A	GTS534	Nov.15, 2025	Nov.14, 2026
8	Broadband Preamplifier	SCHWARZBECK	BBV9718	GTS535	Apr. 11, 2025	Apr. 10, 2026
9	Amplifier(1GHz-26.5GHz)	HP	8449B	GTS601	Apr. 11, 2025	Apr. 10, 2026
10	Horn Antenna (18GH-40GHz)	Schwarzbeck	BBHA 9170	GTS691	Apr. 11, 2025	Apr. 10, 2026
11	FSV·Signal Analyzer (10Hz-40GHz)	Keysight	FSV-40-N	GTS666	Mar. 11, 2025	Mar. 10, 2026
12	Amplifier	/	LNA-1000-30S	GTS650	Apr. 11, 2025	Apr. 10, 2026
13	CDNE M2+M3-16A	HCT	30MHz-300MHz	GTS692	Nov. 12, 2025	Nov. 11, 2026
14	Wideband Amplifier	/	WDA-01004000-15P35	GTS602	Apr. 11, 2025	Apr. 10, 2026
15	Thermo meter	JINCHUANG	GSP-8A	GTS643	Apr. 15, 2025	Apr. 14, 2026
16	RE cable 1	GTS	N/A	GTS675	Jul. 11, 2025	Jul. 10, 2026
17	RE cable 2	GTS	N/A	GTS676	Jul. 11, 2025	Jul. 10, 2026
18	RE cable 3	GTS	N/A	GTS677	Jul. 11, 2025	Jul. 10, 2026
19	RE cable 4	GTS	N/A	GTS678	Jul. 11, 2025	Jul. 10, 2026
20	RE cable 5	GTS	N/A	GTS679	Jul. 11, 2025	Jul. 10, 2026
21	RE cable 6	GTS	N/A	GTS680	Jul. 11, 2025	Jul. 10, 2026
22	RE cable 7	GTS	N/A	GTS681	Jul. 11, 2025	Jul. 10, 2026
23	RE cable 8	GTS	N/A	GTS682	Jul. 11, 2025	Jul. 10, 2026
24	EMI Test Software	AUDIX	E3-6.100614a	GTS725	N/A	N/A

RF Conducted Test:						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	MXA Signal Analyzer	Agilent	N9020A	GTS566	Apr. 11, 2025	Apr. 10, 2026
2	MXA Signal Analyzer	Agilent	N9010B	GTS570	Apr. 11, 2025	Apr. 10, 2026
3	EMI Test Receiver	R&S	ESCI 7	GTS552	Apr. 12, 2025	Apr. 11, 2026
4	PSA Series Spectrum Analyzer	Agilent	E4440A	GTS536	Apr. 11, 2025	Apr. 10, 2026
5	MXG vector Signal Generator	Agilent	N5182A	GTS567	Apr. 11, 2025	Apr. 10, 2026
6	ESG Analog Signal Generator	Agilent	E4428C	GTS568	Apr. 11, 2025	Apr. 10, 2026
7	Wideband Power Meter	Keysight	N1924A	GTS673	Apr. 11, 2025	Apr. 10, 2026
8	USB RF Power Sensor	DARE	RPR3006W	GTS569	Apr. 11, 2025	Apr. 10, 2026
9	RF Switch Box	Shongyi	RFSW3003328	GTS571	Apr. 11, 2025	Apr. 10, 2026
10	Programmable Constant Temp & Humi Test Chamber	WEWON	WHTH-150L-40-880	GTS572	Apr. 11, 2025	Apr. 10, 2026
11	Thermo meter	JINCHUANG	GSP-8A	GTS641	Apr. 15, 2025	Apr. 14, 2026

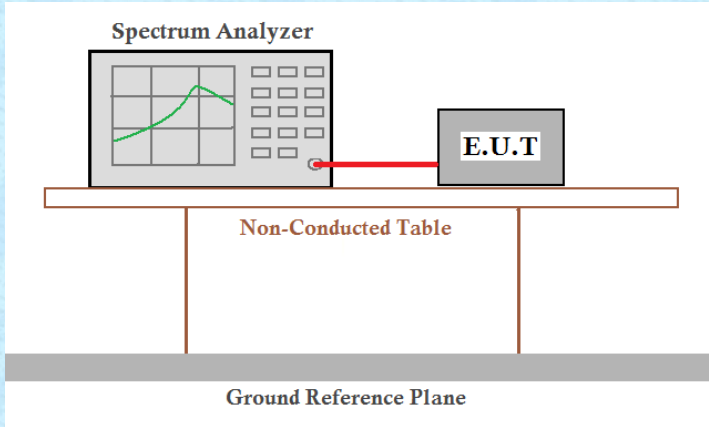
General used equipment:						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Date (mm-dd-yy)	Cal.Due date (mm-dd-yy)
1	Barometer	KUMAO	SF132	GTS647	Jul. 16, 2025	Jul. 15, 2026

7 Test results and Measurement Data

7.1 Antenna requirement

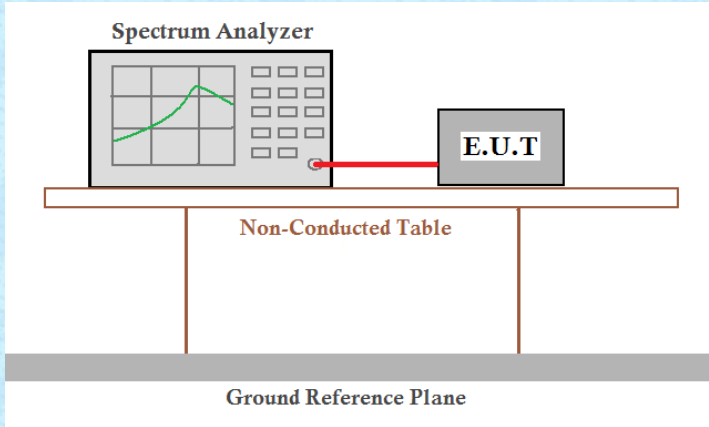
Standard requirement:	FCC Part15 C Section 15.203 /247(c)
15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, 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.	
15.247(c) (1)(i) requirement: (i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.	
E.U.T Antenna:	
The antenna is single ceramic antenna, reference to the appendix II for details	

7.2 Conducted Output Power

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	ANSI C63.10-2020 Section 11.9.1.1
Limit:	30dBm
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T. are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

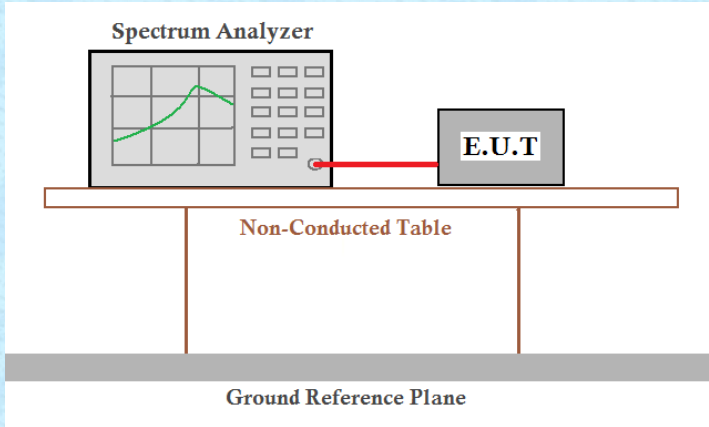
Measurement Data: The detailed test data see Appendix for Zigbee.

7.3 Channel Bandwidth

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	ANSI C63.10-2020 Section 11.8.1
Limit:	>500kHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, showing a frequency spectrum on its screen, is connected to an E.U.T. (Equipment Under Test) by a red cable. Both the Spectrum Analyzer and the E.U.T. are positioned on a Non-Conducted Table. This table is supported by a Ground Reference Plane, which is represented by a thick grey bar at the bottom of the setup.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for Zigbee.

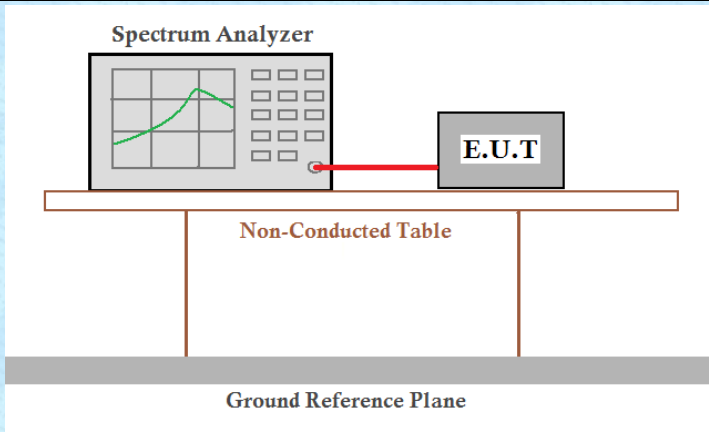
7.4 Power Spectral Density

Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	ANSI C63.10-2020 Section 11.10.2
Limit:	8dBm/3kHz
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer, shown with a green trace on its screen, is connected to an E.U.T (Equipment Under Test) by a red cable. Both the Spectrum Analyzer and the E.U.T are positioned on a Non-Conducted Table. This table is supported by a Ground Reference Plane, which is represented by a thick grey bar at the bottom of the setup.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for Zigbee.

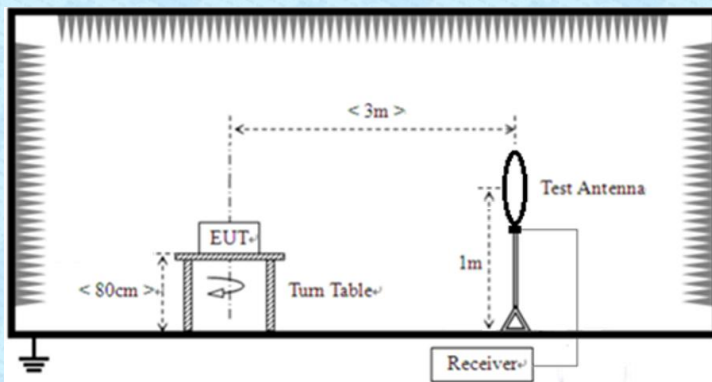
7.5 Spurious Emission in Non-restricted & restricted Bands

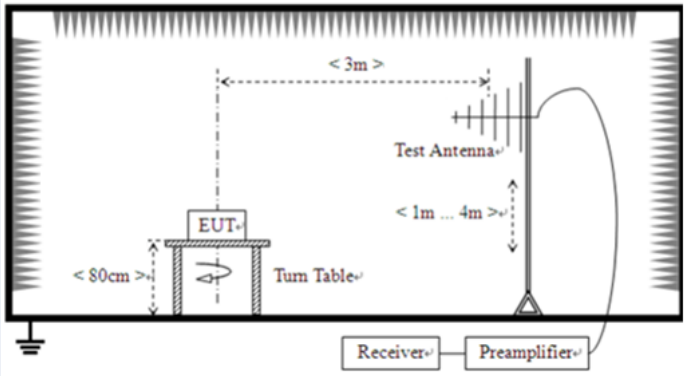
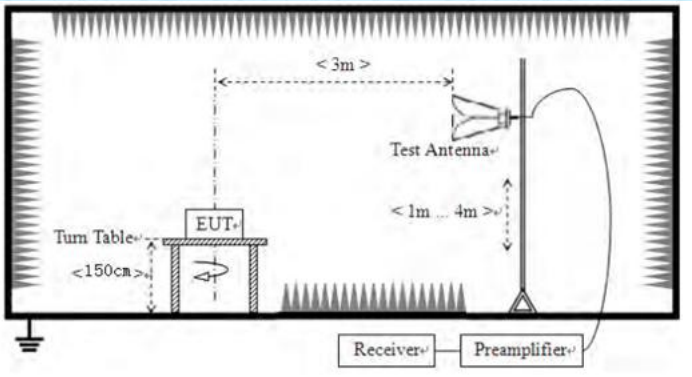
7.5.1 Conducted Emission Method

Test Requirement:	FCC Part15 C Section 15.247 (d)
Test Method:	ANSI C63.10-2020 Section 11.11 and 11.12
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by a Ground Reference Plane.
Test Instruments:	Refer to section 6.0 for details
Test mode:	Refer to section 5.2 for details
Test results:	Pass

Measurement Data: The detailed test data see Appendix for Zigbee.

7.5.2 Radiated Emission Method

Test Requirement:	FCC Part15 C Section 15.209				
Test Method:	ANSI C63.10:2020				
Test Frequency Range:	9kHz to 25GHz				
Test site:	Measurement Distance: 3m				
Receiver setup:	Frequency	Detector	RBW	VBW	Value
	9kHz-150kHz	Quasi-peak	200Hz	600Hz	Quasi-peak
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
	Note: For Duty cycle $\geq 98\%$, average detector set as above For Duty cycle $< 98\%$, average detector set as below: $VBW \geq 1 / T$				
Limit:	Frequency	Limit (uV/m)	Value	Measurement Distance	
	0.009MHz-0.490MHz	2400/F(kHz)	QP/PK/AV	300m	
	0.490MHz-1.705MHz	24000/F(kHz)	QP	30m	
	1.705MHz-30MHz	30	QP	30m	
	30MHz-88MHz	100	QP	3m	
	88MHz-216MHz	150	QP		
	216MHz-960MHz	200	QP		
	960MHz-1GHz	500	QP		
	Above 1GHz	500	Average		
		5000	Peak		
Test setup:	For radiated emissions from 9kHz to 30MHz				
					

	For radiated emissions from 30MHz to1GHz					
						
	For radiated emissions above 1GHz					
						
Test Procedure:	1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.					
Test Instruments:	Refer to section 6.0 for details					
Test mode:	Refer to section 5.2 for details					
Test environment:	Temp.:	22 °C	Humid.:	47%	Press.:	1012mbar
Test voltage:	DC1.5V(1*AA)					

Test results:

Pass

Measurement data:

Remark:

Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.

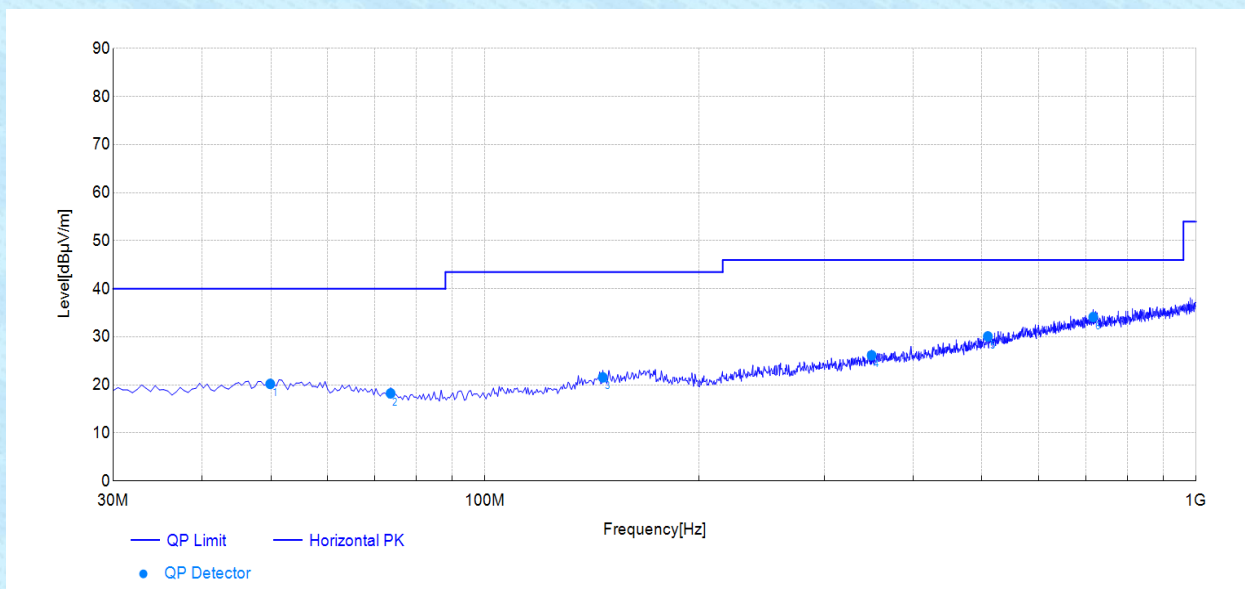
■ 9kHz~30MHz

The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

■ Below 1GHz

For Below 1GHz, All of the EUT Configure mode were tested and found Zigbee_2405MHz channel is the worst mode, the worst case is recorded in this report.

Horizontal:



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	49.89	14.35	5.87	20.22	40.00	19.78	100	13	Horizontal	PASS
2	73.67	12.30	5.95	18.25	40.00	21.75	150	54	Horizontal	PASS
3	146.46	15.10	6.48	21.58	43.50	21.92	100	277	Horizontal	PASS
4	349.77	18.30	7.85	26.15	46.00	19.85	150	35	Horizontal	PASS
5	509.42	21.47	8.64	30.11	46.00	15.89	150	246	Horizontal	PASS
6	716.62	25.01	9.13	34.14	46.00	11.86	100	306	Horizontal	PASS

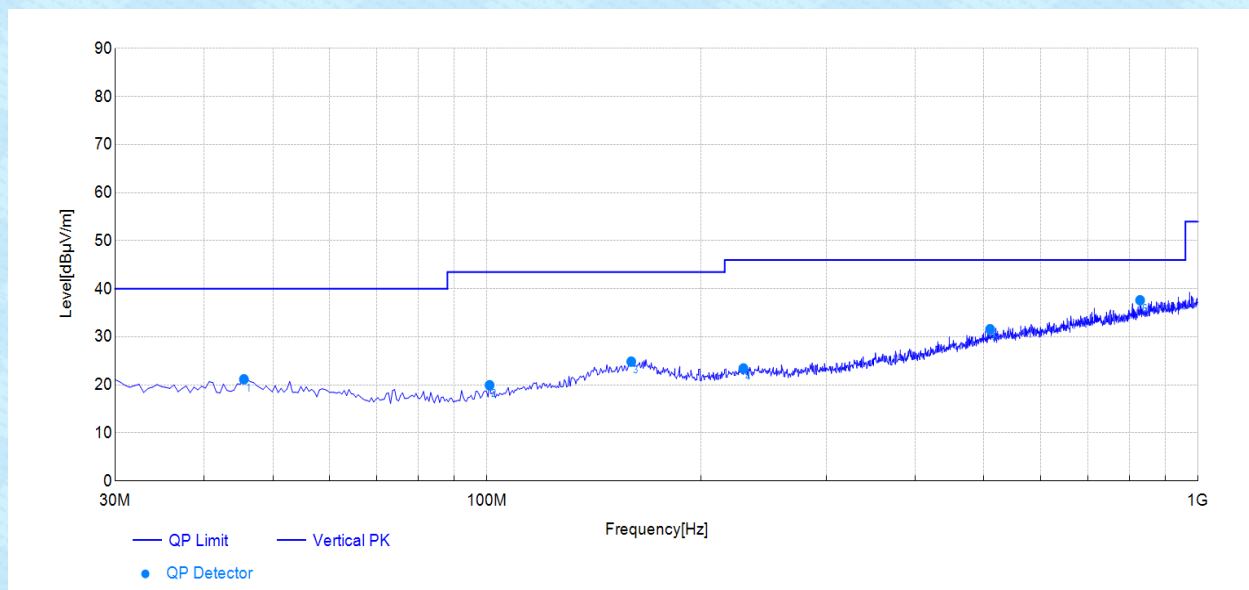
Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin=Limit - Emission Level.

Vertical:



Final Data List										
NO.	Frequency [MHz]	Factor [dB/m]	QP Reading [dBμV]	QP Value [dBμV/m]	QP Limit [dBμV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity	Verdict
1	45.53	13.20	7.98	21.18	40.00	18.82	150	196	Vertical	PASS
2	100.85	12.37	7.57	19.94	43.50	23.56	150	167	Vertical	PASS
3	159.56	17.83	7.02	24.85	43.50	18.65	100	1	Vertical	PASS
4	229.43	15.76	7.68	23.44	46.00	22.56	100	328	Vertical	PASS
5	509.90	22.48	9.12	31.60	46.00	14.40	100	309	Vertical	PASS
6	828.71	27.24	10.39	37.63	46.00	8.37	150	352	Vertical	PASS

Remark:

Emission Level = Reading + Factor;

Factor = Antenna Factor + Cable Loss – Pre-amplifier;

Margin=Limit - Emission Level.

Remarks:

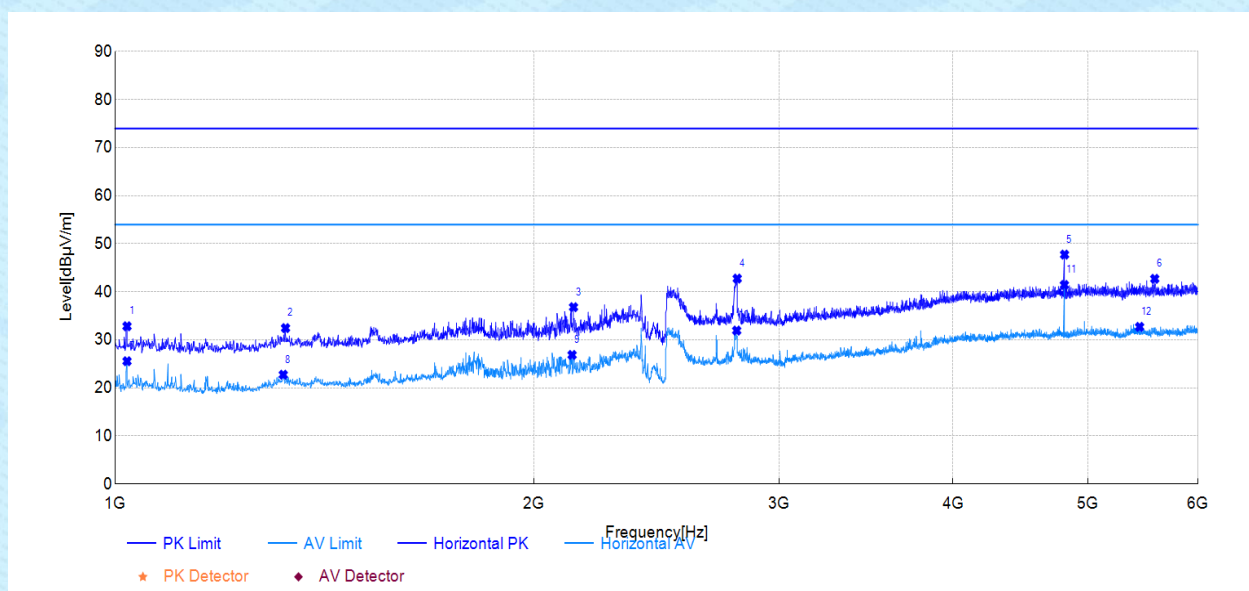
- Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
- Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) - Pre-Amplifier Factor(dB)
- Margin value = Emission Level – Limit value
- The emission levels of other frequencies are very lower than the limit and not show in test report.
Tnly the antenna height (from 1m to 4m) and turntable angle (from 0 degrees to 360 degrees) at maximum reading are recorded.

■ Above 1GHz

For Above 1GHz, All EUT configuration modes were tested, this report reflects worst-case (2Mbps_Ant7) test results only.

1GHz – 6GHz Test Data

EUT:	Smart Soil Moisture Sensor Gen2	Polarity:	Horizontal
Model:	3RSM0347Z	Test Engineer:	Jawb Cai
Mode:	Transmit at Zigbee Channel 11	Voltage:	DC 1.5V
Environment:	Temp: 23.8°C; Humi: 48%	Test Date:	2026-01-09

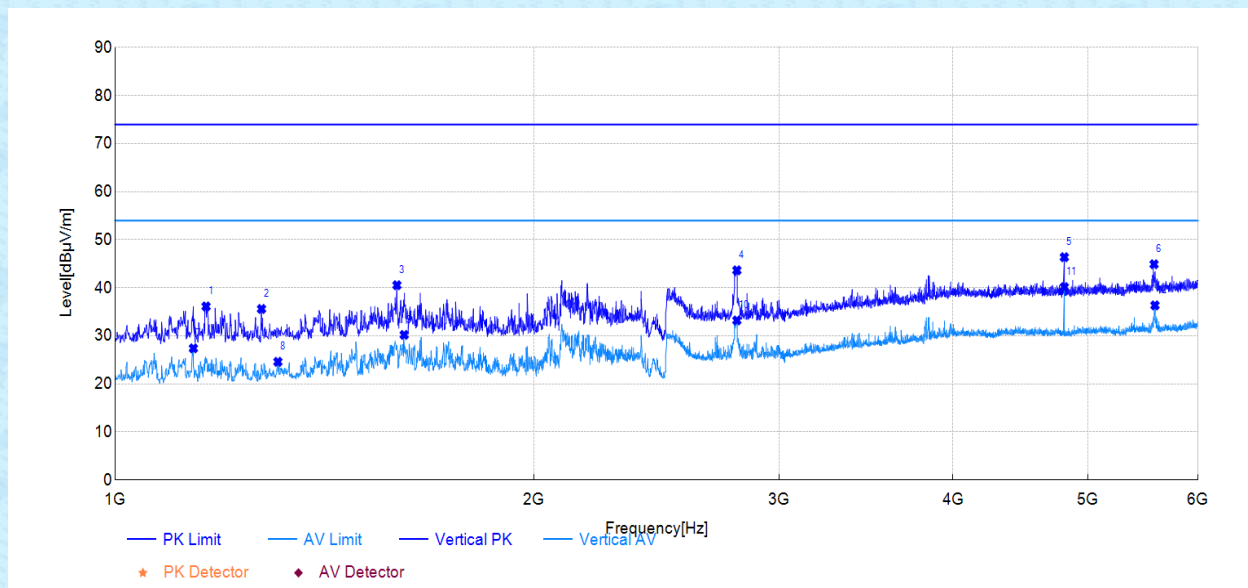


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1020.00	57.11	32.84	-24.27	74.00	41.16	150	153	PK	Horizontal	PASS
2	1325.83	55.13	32.45	-22.68	74.00	41.55	150	319	PK	Horizontal	PASS
3	2135.00	54.24	36.81	-17.43	74.00	37.19	150	108	PK	Horizontal	PASS
4	2799.17	57.99	42.76	-15.23	74.00	31.24	150	130	PK	Horizontal	PASS
5	4810.83	54.65	47.75	-6.90	74.00	26.25	150	51	PK	Horizontal	PASS
6	5585.00	48.32	42.71	-5.61	74.00	31.29	150	88	PK	Horizontal	PASS
7	1020.00	49.83	25.56	-24.27	54.00	28.44	150	153	AV	Horizontal	PASS
8	1320.83	45.47	22.75	-22.72	54.00	31.25	150	328	AV	Horizontal	PASS
9	2130.00	44.31	26.86	-17.45	54.00	27.14	150	47	AV	Horizontal	PASS
10	2796.67	47.18	31.94	-15.24	54.00	22.06	150	126	AV	Horizontal	PASS
11	4809.17	48.33	41.43	-6.90	54.00	12.57	150	51	AV	Horizontal	PASS
12	5446.67	38.39	32.71	-5.68	54.00	21.29	150	310	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3) This test was performed with the 2.4-2.4835GHz notch filter



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1162.50	58.89	36.13	-22.76	74.00	37.87	150	97	PK	Vertical	PASS
2	1274.17	57.79	35.61	-22.18	74.00	38.39	150	97	PK	Vertical	PASS
3	1594.17	60.93	40.55	-20.38	74.00	33.45	150	244	PK	Vertical	PASS
4	2797.50	58.73	43.65	-15.08	74.00	30.35	150	40	PK	Vertical	PASS
5	4809.17	53.73	46.38	-7.35	74.00	27.62	150	92	PK	Vertical	PASS
6	5578.33	50.65	44.91	-5.74	74.00	29.09	150	105	PK	Vertical	PASS
7	1138.33	50.28	27.41	-22.87	54.00	26.59	150	92	AV	Vertical	PASS
8	1309.17	46.58	24.61	-21.97	54.00	29.39	150	105	AV	Vertical	PASS
9	1613.33	50.48	30.21	-20.27	54.00	23.79	150	119	AV	Vertical	PASS
10	2797.50	48.30	33.22	-15.08	54.00	20.78	150	37	AV	Vertical	PASS
11	4809.17	47.50	40.15	-7.35	54.00	13.85	150	69	AV	Vertical	PASS
12	5586.67	42.09	36.35	-5.74	54.00	17.65	150	82	AV	Vertical	PASS

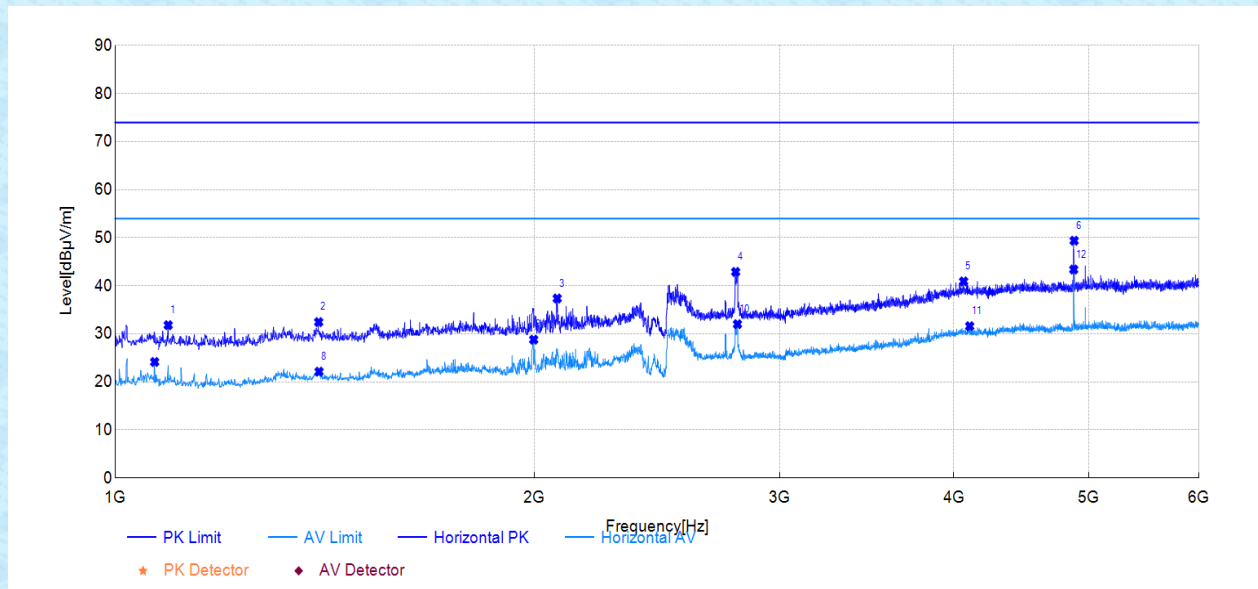
Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3) This test was performed with the 2.4-2.4835GHz notch filter

1GHz – 6GHz Test Data

EUT:	Smart Soil Moisture Sensor Gen2	Polarity:	Horizontal
Model:	3RSM0347Z	Test Engineer:	Jawb Cai
Mode:	Transmit at Zigbee Channel 18	Voltage:	DC 1.5V
Environment:	Temp: 23.8°C; Humi: 48%	Test Date:	2026-01-09



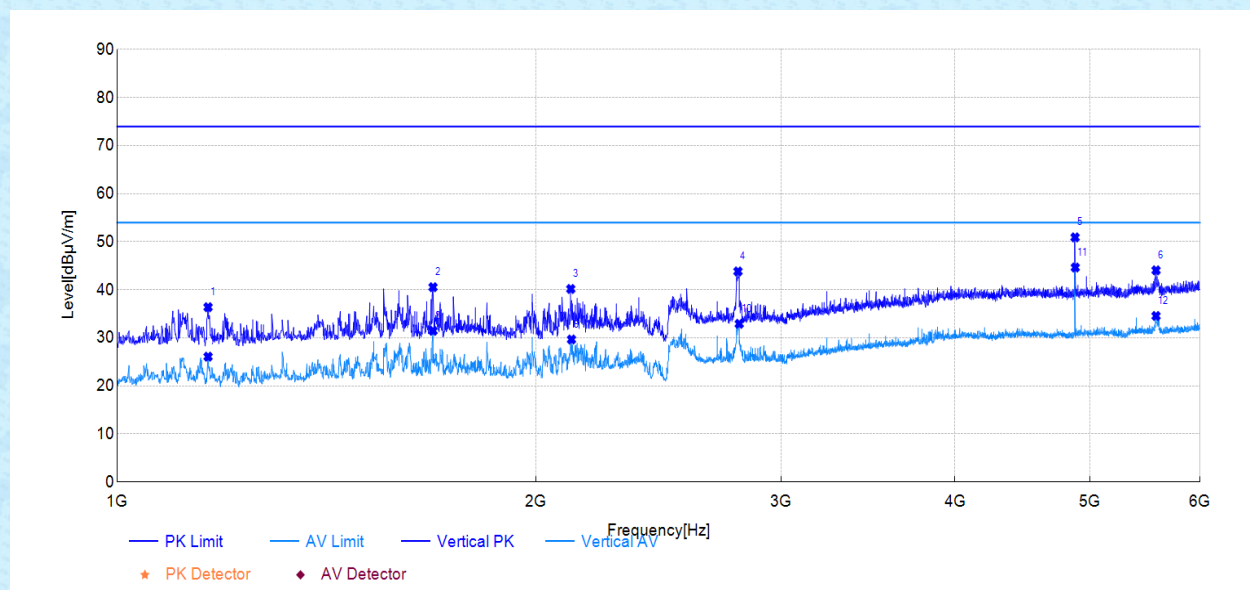
Suspected Data List

NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1091.67	55.76	31.82	-23.94	74.00	42.18	150	1	PK	Horizontal	PASS
2	1400.00	54.58	32.45	-22.13	74.00	41.55	150	70	PK	Horizontal	PASS
3	2076.67	55.01	37.37	-17.64	74.00	36.63	150	108	PK	Horizontal	PASS
4	2789.17	58.14	42.90	-15.24	74.00	31.10	150	126	PK	Horizontal	PASS
5	4065.83	49.20	40.92	-8.28	74.00	33.08	150	10	PK	Horizontal	PASS
6	4880.83	56.07	49.39	-6.68	74.00	24.61	150	47	PK	Horizontal	PASS
7	1067.50	48.21	24.16	-24.05	54.00	29.84	150	153	AV	Horizontal	PASS
8	1400.83	44.27	22.14	-22.13	54.00	31.86	150	62	AV	Horizontal	PASS
9	1997.50	46.79	28.80	-17.99	54.00	25.20	150	108	AV	Horizontal	PASS
10	2797.50	47.25	32.02	-15.23	54.00	21.98	150	126	AV	Horizontal	PASS
11	4106.67	39.73	31.60	-8.13	54.00	22.40	150	356	AV	Horizontal	PASS
12	4877.50	50.08	43.39	-6.69	54.00	10.61	150	52	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3) This test was performed with the 2.4-2.4835GHz notch filter



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1162.50	59.15	36.39	-22.76	74.00	37.61	150	83	PK	Vertical	PASS
2	1686.67	60.38	40.55	-19.83	74.00	33.45	150	106	PK	Vertical	PASS
3	2118.33	57.72	40.18	-17.54	74.00	33.82	150	83	PK	Vertical	PASS
4	2793.33	58.90	43.83	-15.07	74.00	30.17	150	36	PK	Vertical	PASS
5	4879.17	58.11	50.92	-7.19	74.00	23.08	150	69	PK	Vertical	PASS
6	5578.33	49.80	44.06	-5.74	74.00	29.94	150	101	PK	Vertical	PASS
7	1162.50	48.85	26.09	-22.76	54.00	27.91	150	83	AV	Vertical	PASS
8	1686.67	51.30	31.47	-19.83	54.00	22.53	150	106	AV	Vertical	PASS
9	2120.83	47.20	29.67	-17.53	54.00	24.33	150	83	AV	Vertical	PASS
10	2799.17	48.00	32.93	-15.07	54.00	21.07	150	36	AV	Vertical	PASS
11	4880.83	51.84	44.65	-7.19	54.00	9.35	150	69	AV	Vertical	PASS
12	5578.33	40.30	34.56	-5.74	54.00	19.44	150	101	AV	Vertical	PASS

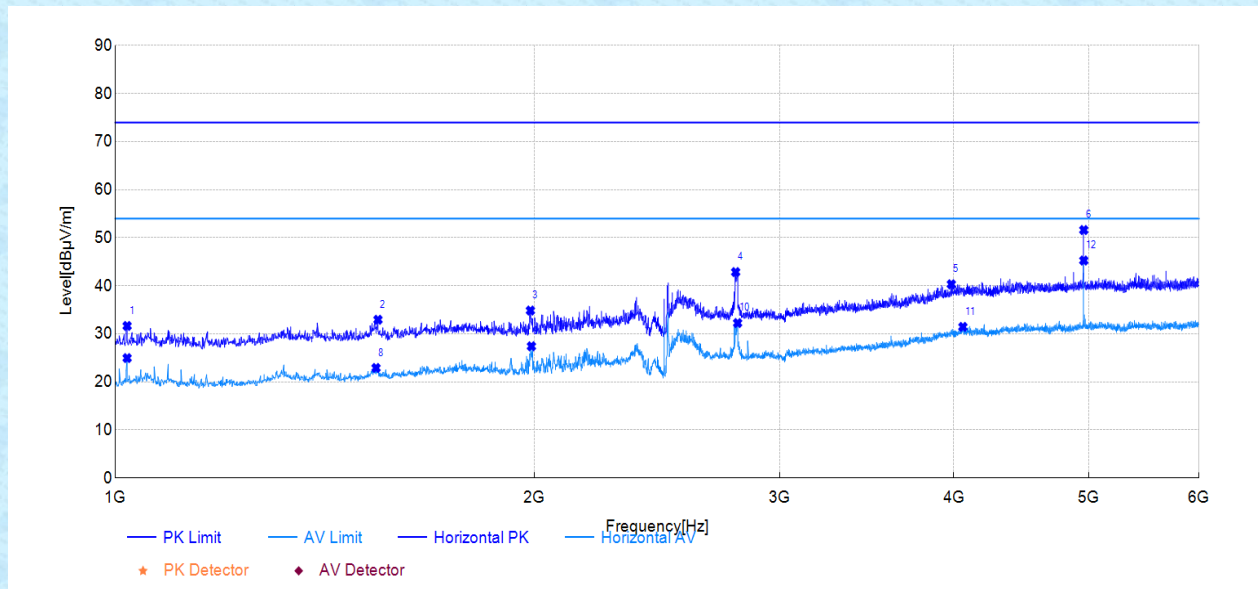
Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3) This test was performed with the 2.4-2.4835GHz notch filter

1GHz – 6GHz Test Data

EUT:	Smart Soil Moisture Sensor Gen2	Polarity:	Horizontal
Model:	3RSM0347Z	Test Engineer:	Jawb Cai
Mode:	Transmit at Zigbee Channel 26	Voltage:	DC 1.5V
Environment:	Temp: 23.8°C; Humi: 48%	Test Date:	2026-01-09

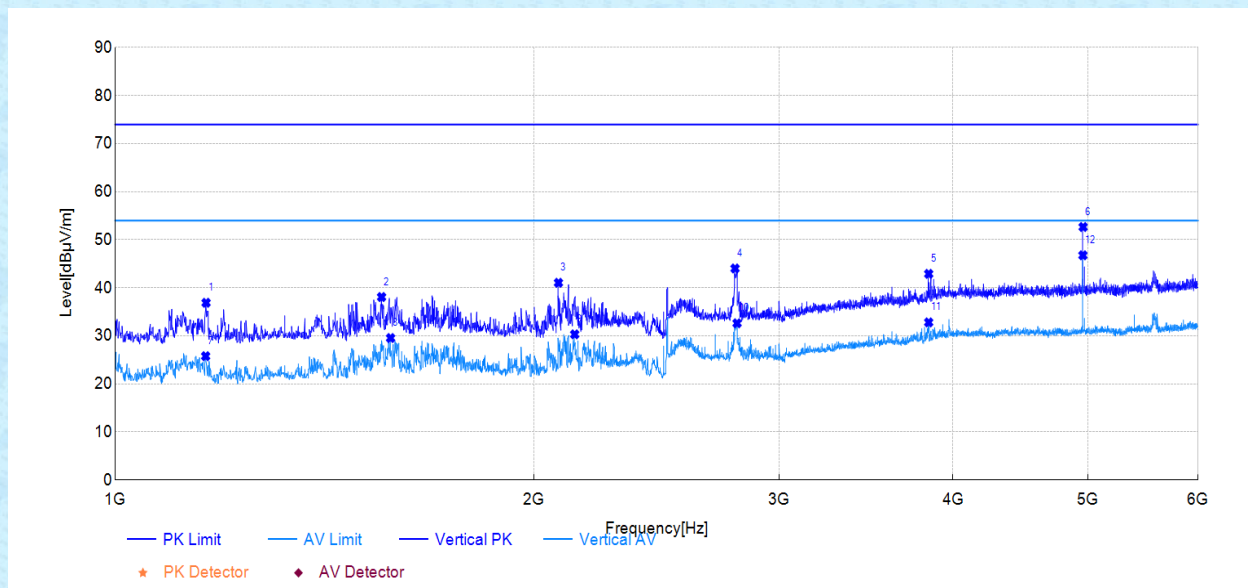


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1020.00	55.93	31.66	-24.27	74.00	42.34	150	75	PK	Horizontal	PASS
2	1544.17	54.30	32.95	-21.35	74.00	41.05	150	43	PK	Horizontal	PASS
3	1986.67	52.94	34.86	-18.08	74.00	39.14	150	56	PK	Horizontal	PASS
4	2789.17	58.11	42.87	-15.24	74.00	31.13	150	127	PK	Horizontal	PASS
5	3984.17	49.02	40.33	-8.69	74.00	33.67	150	163	PK	Horizontal	PASS
6	4959.17	57.94	51.62	-6.32	74.00	22.38	150	53	PK	Horizontal	PASS
7	1020.00	49.24	24.97	-24.27	54.00	29.03	150	200	AV	Horizontal	PASS
8	1539.17	44.30	22.91	-21.39	54.00	31.09	150	53	AV	Horizontal	PASS
9	1990.00	45.48	27.43	-18.05	54.00	26.57	150	56	AV	Horizontal	PASS
10	2798.33	47.49	32.26	-15.23	54.00	21.74	150	127	AV	Horizontal	PASS
11	4060.83	39.76	31.46	-8.30	54.00	22.54	150	186	AV	Horizontal	PASS
12	4959.17	51.59	45.27	-6.32	54.00	8.73	150	48	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

(3) This test was performed with the 2.4-2.4835GHz notch filter



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	1162.50	59.65	36.89	-22.76	74.00	37.11	150	87	PK	Vertical	PASS
2	1554.17	58.67	38.09	-20.58	74.00	35.91	150	95	PK	Vertical	PASS
3	2082.50	58.74	41.05	-17.69	74.00	32.95	150	100	PK	Vertical	PASS
4	2789.17	59.11	44.03	-15.08	74.00	29.97	150	36	PK	Vertical	PASS
5	3842.50	52.24	42.91	-9.33	74.00	31.09	150	137	PK	Vertical	PASS
6	4960.83	59.55	52.66	-6.89	74.00	21.34	150	68	PK	Vertical	PASS
7	1161.67	48.54	25.78	-22.76	54.00	28.22	150	110	AV	Vertical	PASS
8	1577.50	50.01	29.55	-20.46	54.00	24.45	150	105	AV	Vertical	PASS
9	2139.17	47.78	30.32	-17.46	54.00	23.68	150	350	AV	Vertical	PASS
10	2798.33	47.70	32.63	-15.07	54.00	21.37	150	36	AV	Vertical	PASS
11	3842.50	42.14	32.81	-9.33	54.00	21.19	150	132	AV	Vertical	PASS
12	4959.17	53.66	46.77	-6.89	54.00	7.23	150	73	AV	Vertical	PASS

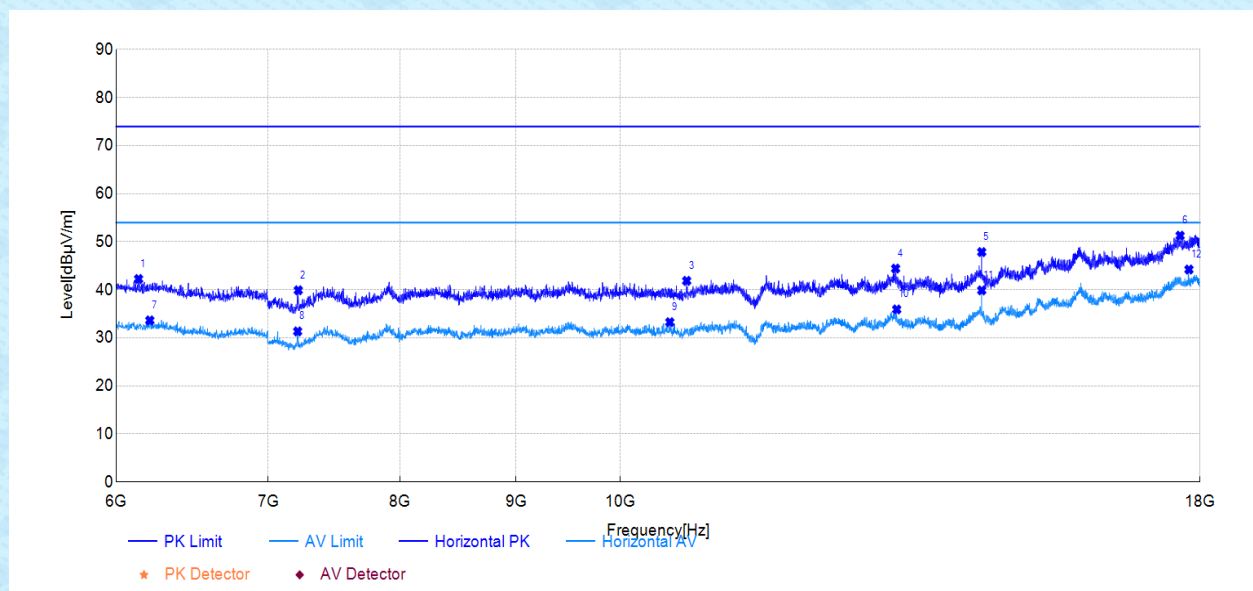
Note: (1) Level = Reading + Factor

(2) Margin = Limit - Level

(3) This test was performed with the 2.4-2.4835GHz notch filter

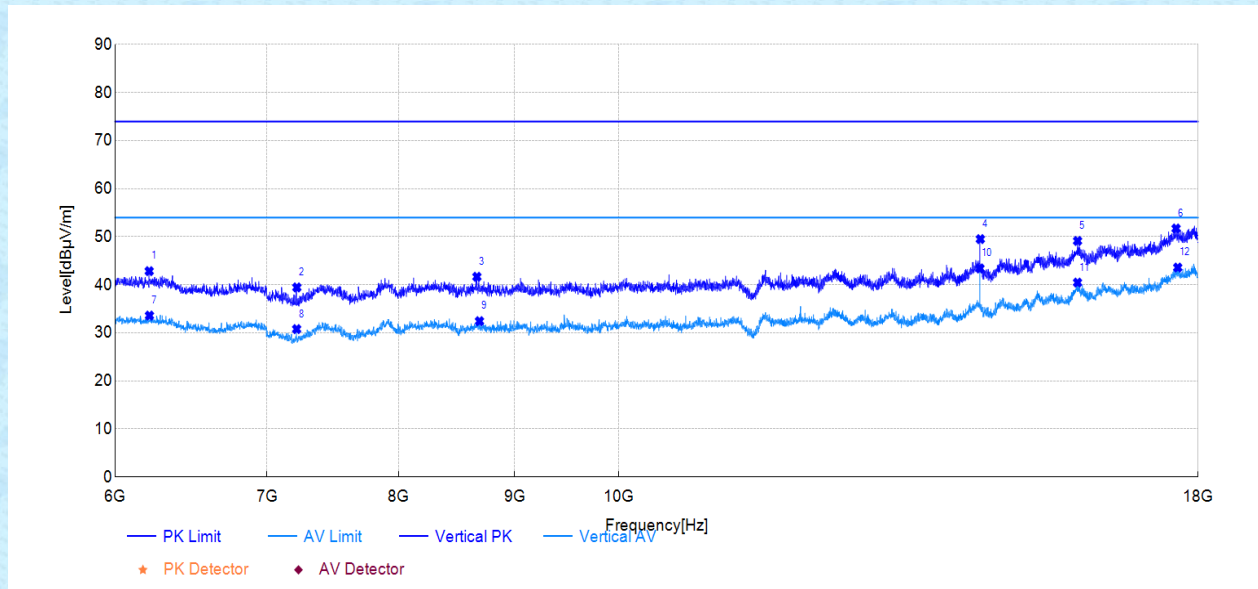
6GHz – 18GHz Test Data

EUT:	Smart Soil Moisture Sensor Gen2	Polarity:	Horizontal
Model:	3RSM0347Z	Test Engineer:	Jawb Cai
Mode:	Transmit at Zigbee Channel 11	Voltage:	DC 1.5V
Environment:	Temp: 23.8°C; Humi: 48%	Test Date:	2026-01-09



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	6138.00	46.65	42.26	-4.39	74.00	31.74	150	51	PK	Horizontal	PASS
2	7216.50	44.05	39.91	-4.14	74.00	34.09	150	46	PK	Horizontal	PASS
3	10698.00	41.45	41.87	0.42	74.00	32.13	150	183	PK	Horizontal	PASS
4	13221.00	41.13	44.43	3.30	74.00	29.57	150	360	PK	Horizontal	PASS
5	14427.00	43.01	47.86	4.85	74.00	26.14	150	122	PK	Horizontal	PASS
6	17640.00	37.44	51.28	13.84	74.00	22.72	150	76	PK	Horizontal	PASS
7	6208.50	37.98	33.64	-4.34	54.00	20.36	150	340	AV	Horizontal	PASS
8	7212.00	35.53	31.35	-4.18	54.00	22.65	150	97	AV	Horizontal	PASS
9	10516.50	32.70	33.27	0.57	54.00	20.73	150	21	AV	Horizontal	PASS
10	13236.00	32.75	35.92	3.17	54.00	18.08	150	0	AV	Horizontal	PASS
11	14427.00	35.04	39.89	4.85	54.00	14.11	150	133	AV	Horizontal	PASS
12	17799.00	30.23	44.23	14.00	54.00	9.77	150	325	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

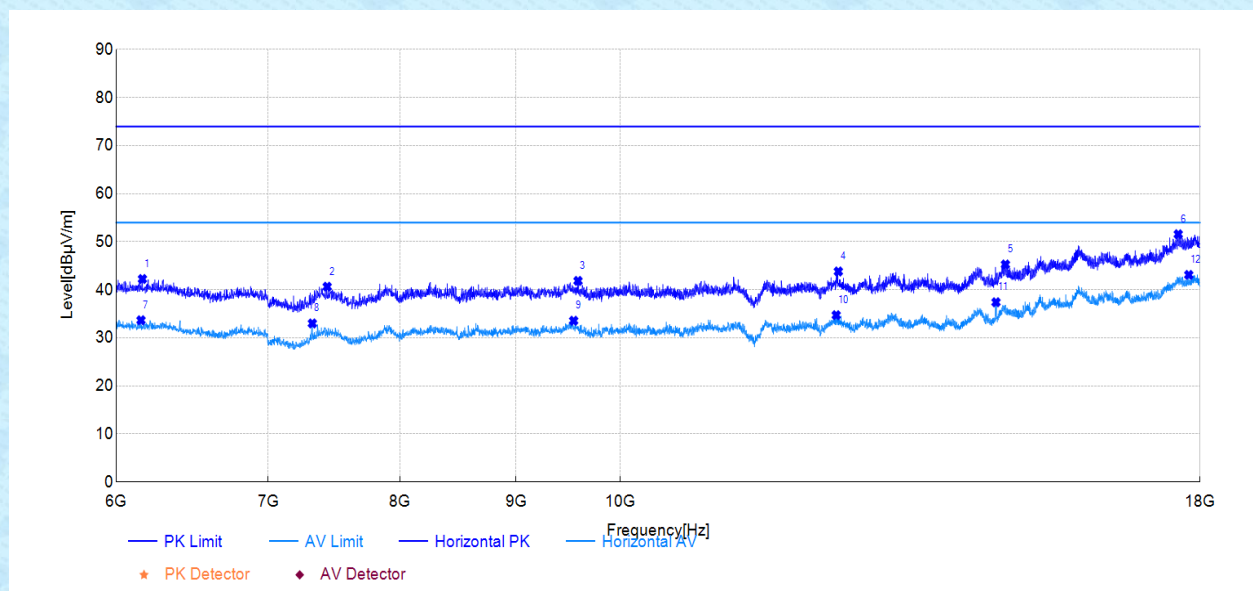


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	6211.50	47.15	42.85	-4.30	74.00	31.15	150	211	PK	Vertical	PASS
2	7215.00	43.43	39.46	-3.97	74.00	34.54	150	60	PK	Vertical	PASS
3	8661.00	42.96	41.68	-1.28	74.00	32.32	150	85	PK	Vertical	PASS
4	14433.00	44.36	49.52	5.16	74.00	24.48	150	261	PK	Vertical	PASS
5	15928.50	40.06	49.14	9.08	74.00	24.86	150	110	PK	Vertical	PASS
6	17602.50	37.05	51.72	14.67	74.00	22.28	150	14	PK	Vertical	PASS
7	6213.00	37.90	33.60	-4.30	54.00	20.40	150	276	AV	Vertical	PASS
8	7213.50	34.77	30.79	-3.98	54.00	23.21	150	35	AV	Vertical	PASS
9	8683.50	33.70	32.44	-1.26	54.00	21.56	150	50	AV	Vertical	PASS
10	14427.00	38.19	43.41	5.22	54.00	10.59	150	271	AV	Vertical	PASS
11	15928.50	31.39	40.47	9.08	54.00	13.53	150	165	AV	Vertical	PASS
12	17632.50	29.12	43.60	14.48	54.00	10.40	150	140	AV	Vertical	PASS

Note: (1) Level = Reading + Factor
(2) Margin = Limit - Level

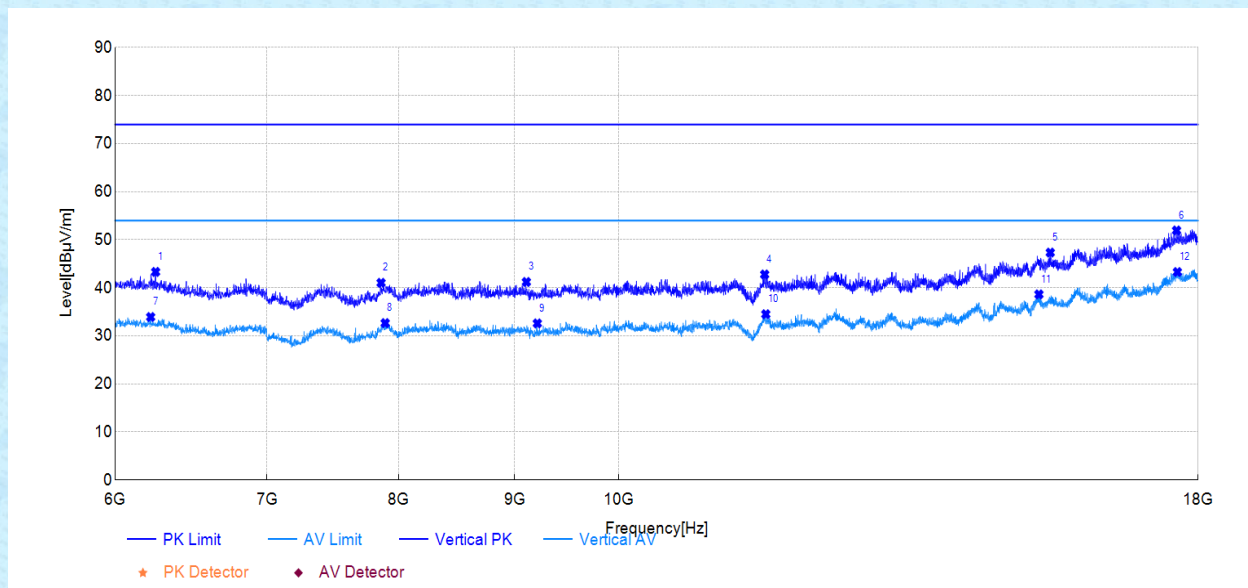
6GHz – 18GHz Test Data

EUT:	Smart Soil Moisture Sensor Gen2	Polarity:	Horizontal
Model:	3RSM0347Z	Test Engineer:	Jawb Cai
Mode:	Transmit at Zigbee Channel 18	Voltage:	DC 1.5V
Environment:	Temp: 23.8°C; Humi: 48%	Test Date:	2026-01-09



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	6162.00	46.64	42.26	-4.38	74.00	31.74	150	160	PK	Horizontal	PASS
2	7431.00	43.34	40.65	-2.69	74.00	33.35	150	301	PK	Horizontal	PASS
3	9582.00	41.74	41.86	0.12	74.00	32.14	150	200	PK	Horizontal	PASS
4	12475.50	41.51	43.82	2.31	74.00	30.18	150	270	PK	Horizontal	PASS
5	14778.00	39.99	45.27	5.28	74.00	28.73	150	0	PK	Horizontal	PASS
6	17607.00	37.53	51.57	14.04	74.00	22.43	150	246	PK	Horizontal	PASS
7	6153.00	38.06	33.67	-4.39	54.00	20.33	150	24	AV	Horizontal	PASS
8	7320.00	36.32	33.01	-3.31	54.00	20.99	150	49	AV	Horizontal	PASS
9	9540.00	33.34	33.57	0.23	54.00	20.43	150	286	AV	Horizontal	PASS
10	12448.50	32.45	34.73	2.28	54.00	19.27	150	180	AV	Horizontal	PASS
11	14637.00	32.83	37.42	4.59	54.00	16.58	150	130	AV	Horizontal	PASS
12	17796.00	29.13	43.11	13.98	54.00	10.89	150	155	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



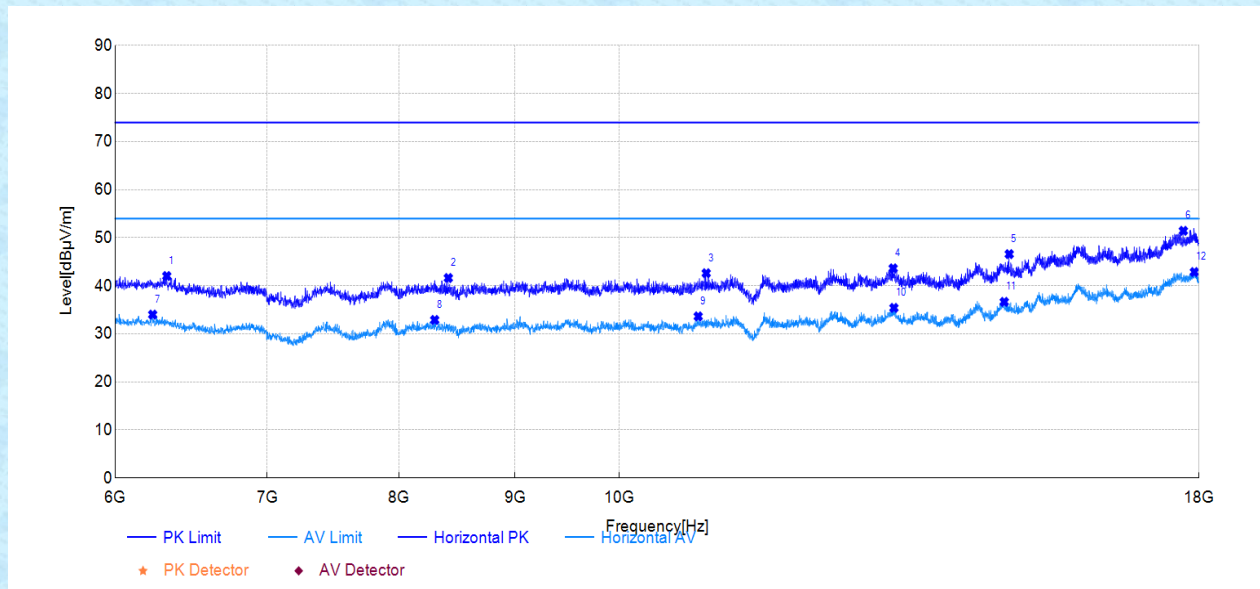
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	6252.00	47.53	43.32	-4.21	74.00	30.68	150	146	PK	Vertical	PASS
2	7858.50	42.99	41.04	-1.95	74.00	32.96	150	141	PK	Vertical	PASS
3	9106.50	42.32	41.22	-1.10	74.00	32.78	150	221	PK	Vertical	PASS
4	11596.50	40.83	42.78	1.95	74.00	31.22	150	196	PK	Vertical	PASS
5	15493.50	39.90	47.34	7.44	74.00	26.66	150	358	PK	Vertical	PASS
6	17611.50	37.33	51.94	14.61	74.00	22.06	150	358	PK	Vertical	PASS
7	6220.50	38.21	33.93	-4.28	54.00	20.07	150	166	AV	Vertical	PASS
8	7891.50	33.95	32.67	-1.28	54.00	21.33	150	121	AV	Vertical	PASS
9	9208.50	34.08	32.60	-1.48	54.00	21.40	150	4	AV	Vertical	PASS
10	11610.00	32.59	34.51	1.92	54.00	19.49	150	221	AV	Vertical	PASS
11	15316.50	31.45	38.64	7.19	54.00	15.36	150	30	AV	Vertical	PASS
12	17626.50	28.77	43.29	14.52	54.00	10.71	150	0	AV	Vertical	PASS

Note: (1) Level = Reading + Factor

(2) Margin = Limit - Level

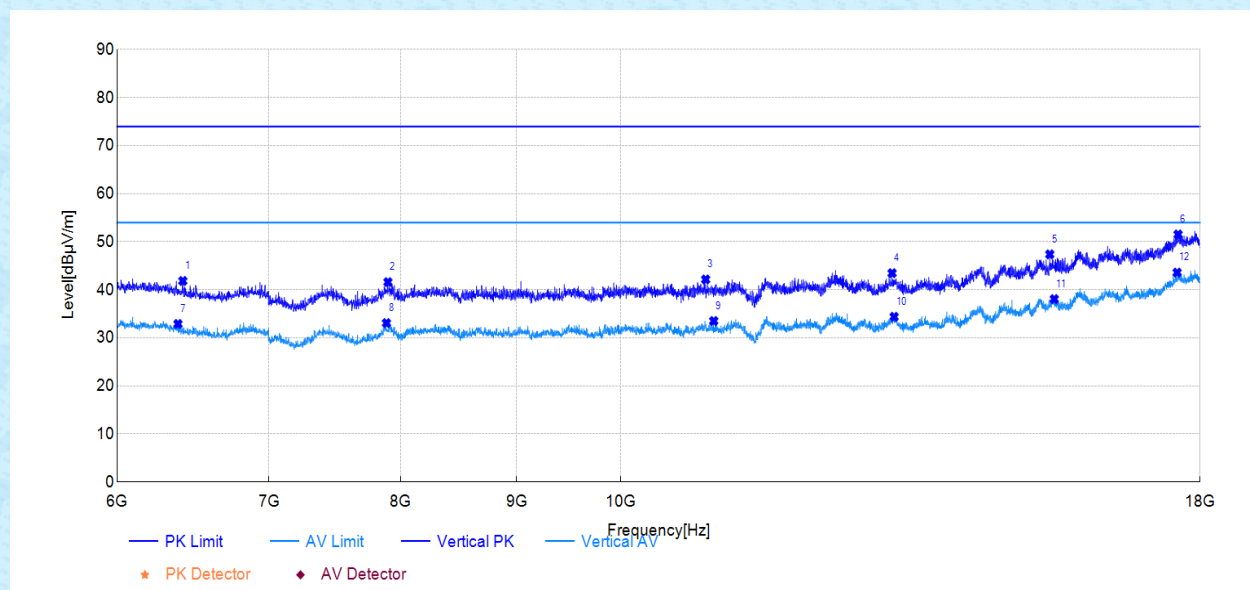
6GHz – 18GHz Test Data

EUT:	Smart Soil Moisture Sensor Gen2	Polarity:	Horizontal
Model:	3RSM0347Z	Test Engineer:	Jawb Cai
Mode:	Transmit at Zigbee Channel 26	Voltage:	DC 1.5V
Environment:	Temp: 23.8°C; Humi: 48%	Test Date:	2026-01-09



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	6322.50	46.31	42.04	-4.27	74.00	31.96	150	0	PK	Horizontal	PASS
2	8410.50	42.81	41.63	-1.18	74.00	32.37	150	255	PK	Horizontal	PASS
3	10923.00	41.38	42.63	1.25	74.00	31.37	150	115	PK	Horizontal	PASS
4	13201.50	40.16	43.64	3.48	74.00	30.36	150	225	PK	Horizontal	PASS
5	14850.00	41.63	46.60	4.97	74.00	27.40	150	15	PK	Horizontal	PASS
6	17716.50	37.89	51.45	13.56	74.00	22.55	150	20	PK	Horizontal	PASS
7	6232.50	38.28	34.01	-4.27	54.00	19.99	150	321	AV	Horizontal	PASS
8	8295.00	34.23	32.90	-1.33	54.00	21.10	150	80	AV	Horizontal	PASS
9	10834.50	32.84	33.64	0.80	54.00	20.36	150	220	AV	Horizontal	PASS
10	13212.00	32.03	35.41	3.38	54.00	18.59	150	241	AV	Horizontal	PASS
11	14775.00	31.38	36.66	5.28	54.00	17.34	150	6	AV	Horizontal	PASS
12	17914.50	28.44	42.87	14.43	54.00	11.13	150	0	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



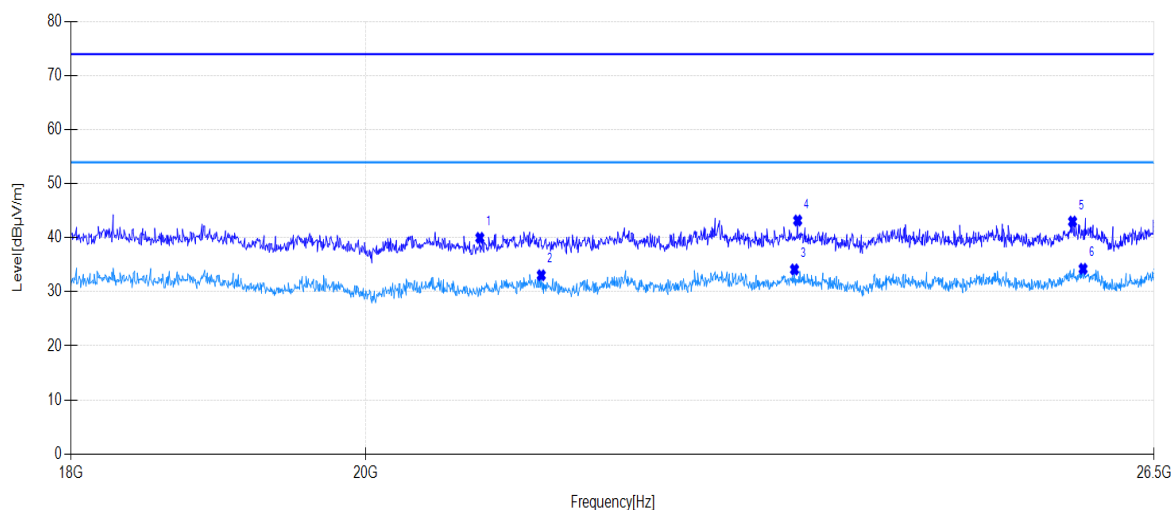
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	6414.00	47.00	41.85	-5.15	74.00	32.15	150	144	PK	Vertical	PASS
2	7897.50	42.75	41.60	-1.15	74.00	32.40	150	256	PK	Vertical	PASS
3	10900.50	41.20	42.16	0.96	74.00	31.84	150	359	PK	Vertical	PASS
4	13170.00	40.66	43.47	2.81	74.00	30.53	150	360	PK	Vertical	PASS
5	15454.50	40.21	47.39	7.18	74.00	26.61	150	359	PK	Vertical	PASS
6	17602.50	36.86	51.53	14.67	74.00	22.47	150	34	PK	Vertical	PASS
7	6382.50	37.85	32.90	-4.95	54.00	21.10	150	14	AV	Vertical	PASS
8	7885.50	34.48	33.08	-1.40	54.00	20.92	150	160	AV	Vertical	PASS
9	10990.50	32.24	33.52	1.28	54.00	20.48	150	4	AV	Vertical	PASS
10	13197.00	31.45	34.39	2.94	54.00	19.61	150	4	AV	Vertical	PASS
11	15525.00	30.77	38.08	7.31	54.00	15.92	150	0	AV	Vertical	PASS
12	17586.00	29.04	43.59	14.55	54.00	10.41	150	69	AV	Vertical	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

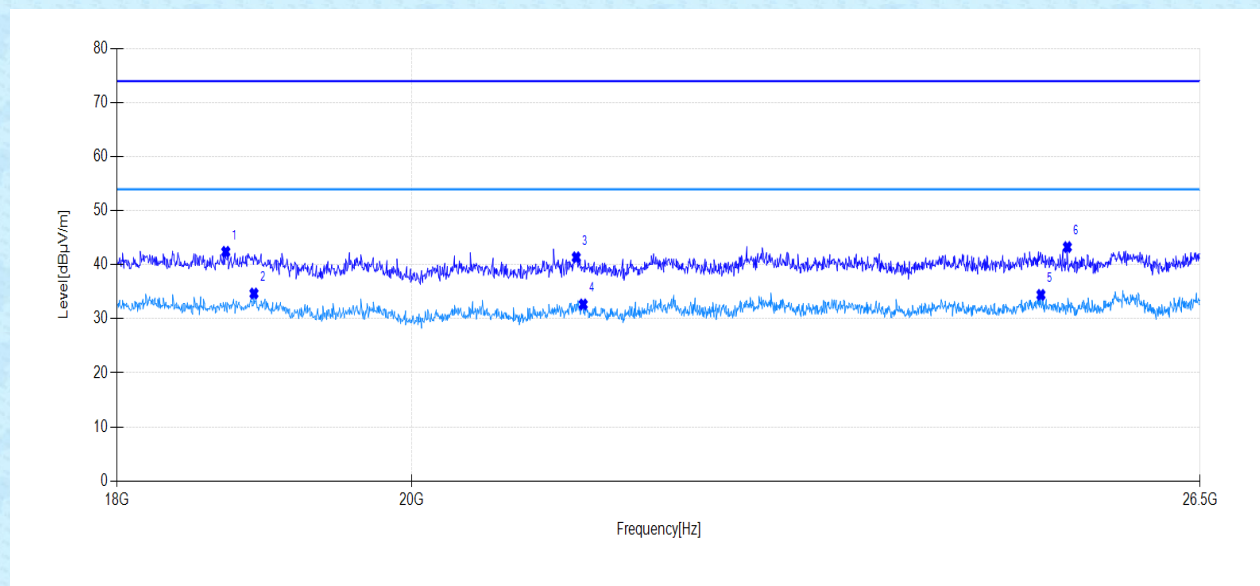
18GHz – 26.5GHz Test Data

EUT:	Smart Soil Moisture Sensor Gen2	Polarity:	Horizontal
Model:	3RSM0347Z	Test Engineer:	Jawb Cai
Mode:	Transmit at Zigbee Channel 11	Voltage:	DC 1.5V
Environment:	Temp: 24.6°C; Humi: 42%	Test Date:	2026-01-27



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	20829.2000	62.55	39.99	-22.56	74.00	34.01	100	330	PK	Horizontal	PASS
2	21291.2000	55.18	33.08	-22.10	54.00	20.92	100	120	AV	Horizontal	PASS
3	23306.4000	53.55	34.14	-19.41	54.00	19.86	100	110	AV	Horizontal	PASS
4	23332.8000	62.56	43.21	-19.35	74.00	30.79	100	280	PK	Horizontal	PASS
5	25739.6000	58.87	43.01	-15.86	74.00	30.99	100	360	PK	Horizontal	PASS
6	25836.4000	50.11	34.26	-15.85	54.00	19.74	100	270	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



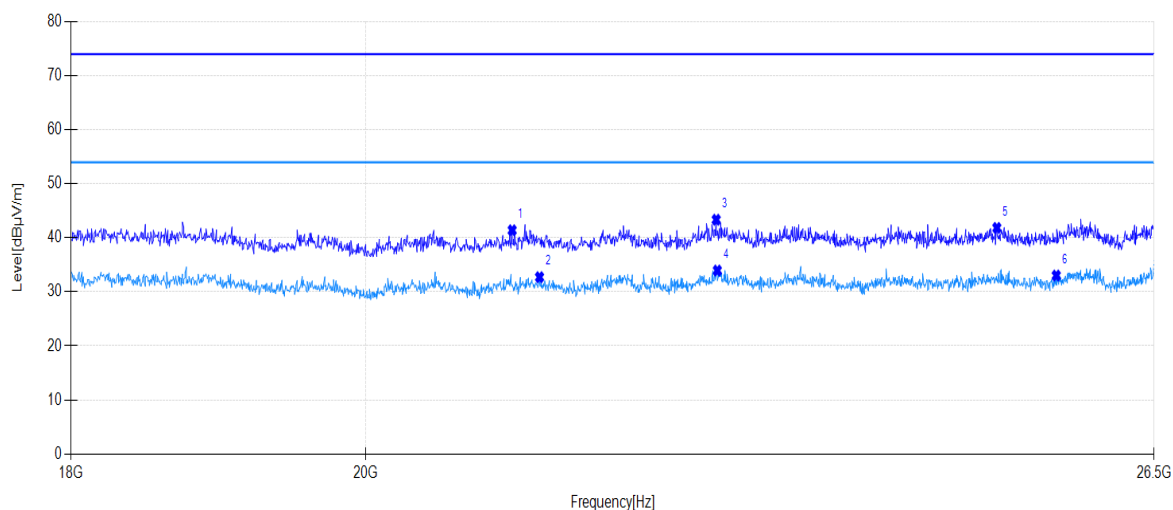
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	18712.8000	66.15	42.41	-23.74	74.00	31.59	100	30	PK	Vertical	PASS
2	18902.0000	58.35	34.69	-23.66	54.00	19.31	100	230	AV	Vertical	PASS
3	21207.6000	63.56	41.38	-22.18	74.00	32.62	100	120	PK	Vertical	PASS
4	21260.4000	54.82	32.67	-22.15	54.00	21.33	100	290	AV	Vertical	PASS
5	25035.6000	50.6	34.44	-16.16	54.00	19.56	100	270	AV	Vertical	PASS
6	25273.2000	59.33	43.29	-16.04	74.00	30.71	100	200	PK	Vertical	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

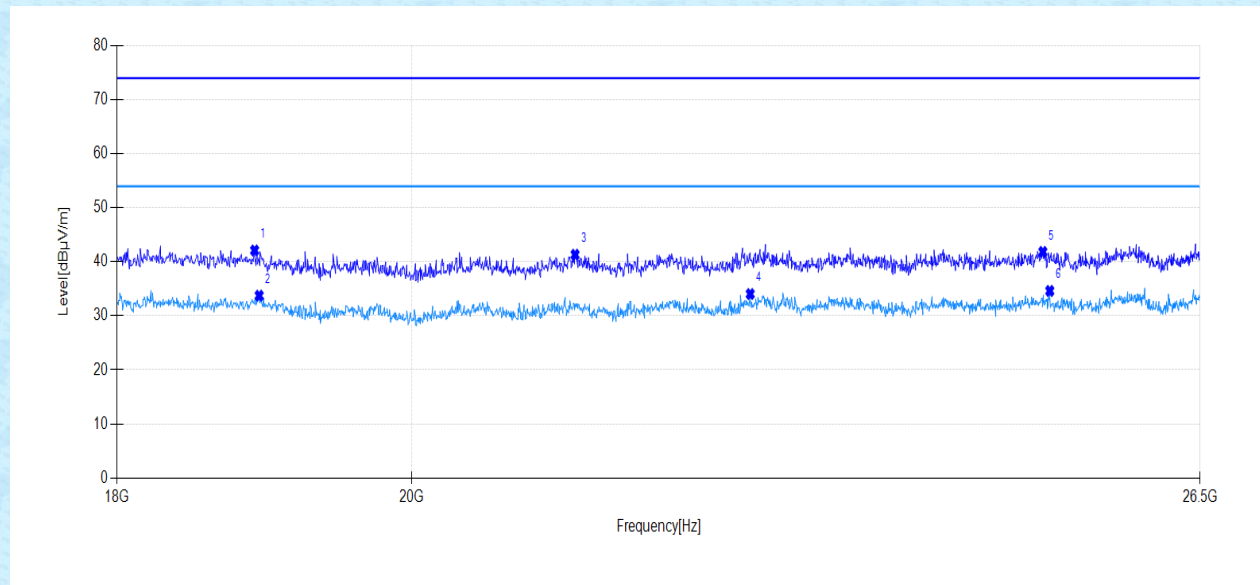
18GHz – 26.5GHz Test Data

EUT:	Smart Soil Moisture Sensor Gen2	Polarity:	Horizontal
Model:	3RSM0347Z	Test Engineer:	Jawb Cai
Mode:	Transmit at Zigbee Channel 18	Voltage:	DC 1.5V
Environment:	Temp: 24.6°C; Humi: 42%	Test Date:	2026-01-27



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	21071.2000	63.75	41.40	-22.35	74.00	32.60	100	50	PK	Horizontal	PASS
2	21278.0000	54.84	32.72	-22.12	54.00	21.28	100	310	AV	Horizontal	PASS
3	22664.0000	63.69	43.35	-20.34	74.00	30.65	100	360	PK	Horizontal	PASS
4	22672.8000	54.28	33.95	-20.33	54.00	20.05	100	340	AV	Horizontal	PASS
5	25053.2000	57.99	41.84	-16.15	74.00	32.16	100	200	PK	Horizontal	PASS
6	25590.0000	48.95	33.02	-15.93	54.00	20.98	100	310	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



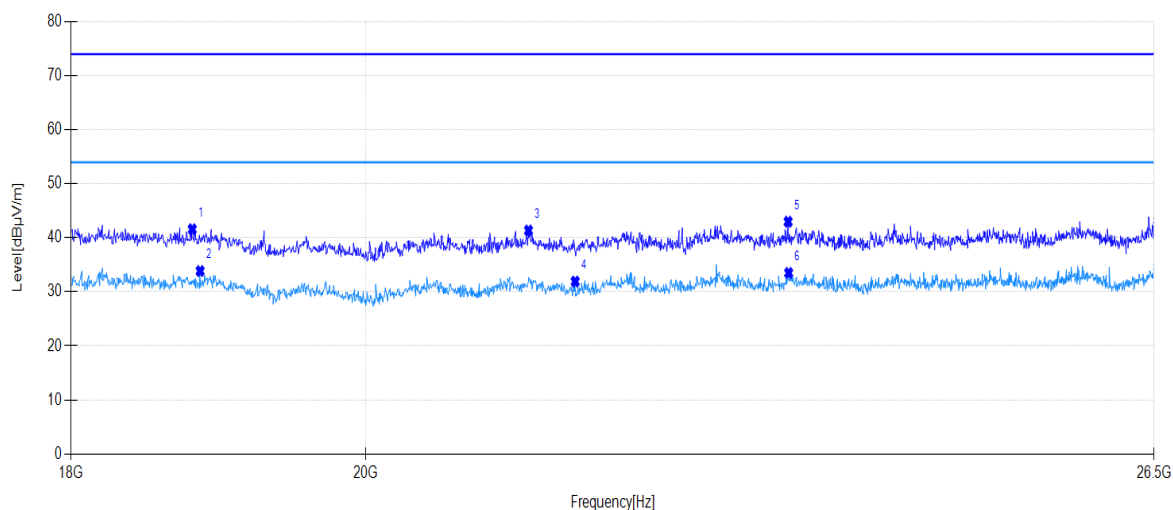
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	6252.00	65.76	42.11	-23.65	74.00	31.89	100	360	PK	Vertical	PASS
2	7858.50	57.32	33.74	-23.58	54.00	20.26	100	120	AV	Vertical	PASS
3	9106.50	63.51	41.32	-22.19	74.00	32.68	100	60	PK	Vertical	PASS
4	11596.50	54.53	34.05	-20.48	54.00	19.95	100	80	AV	Vertical	PASS
5	15493.50	57.99	41.84	-16.15	74.00	32.16	100	350	PK	Vertical	PASS
6	17611.50	50.75	34.62	-16.13	54.00	19.38	100	340	AV	Vertical	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

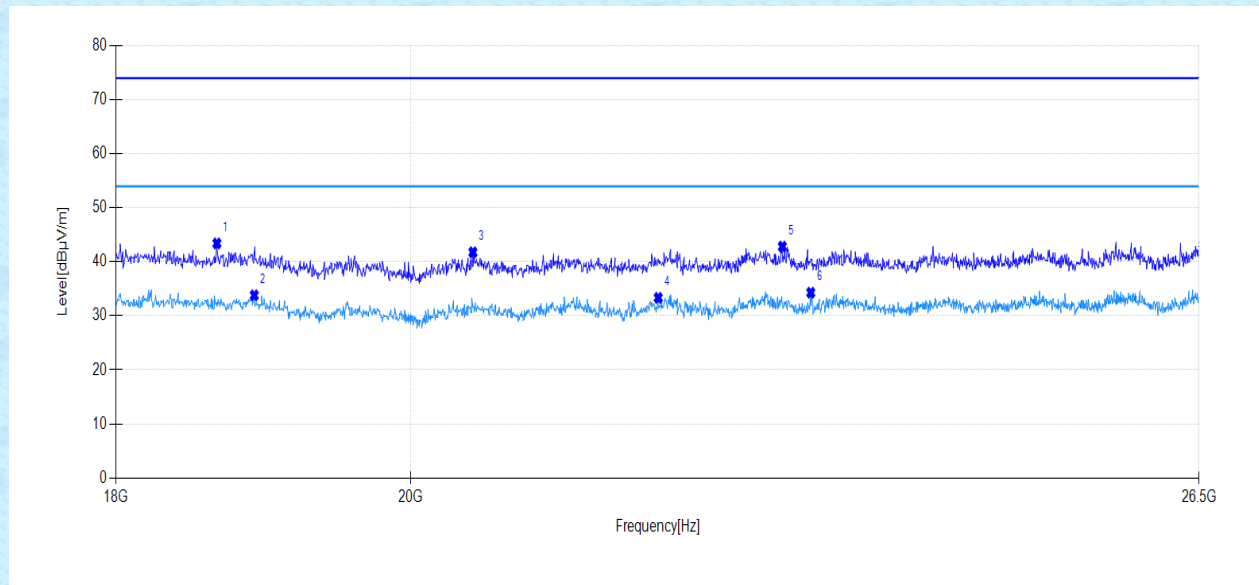
18GHz – 26.5GHz Test Data

EUT:	Smart Soil Moisture Sensor Gen2	Polarity:	Horizontal
Model:	3RSM0347Z	Test Engineer:	Jawb Cai
Mode:	Transmit at Zigbee Channel 26	Voltage:	DC 1.5V
Environment:	Temp: 24.6°C; Humi: 42%	Test Date:	2026-01-27



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	18796.4000	65.35	41.59	-23.76	74.00	32.41	100	100	PK	Horizontal	PASS
2	18849.2000	57.61	33.86	-23.75	54.00	20.14	100	160	AV	Horizontal	PASS
3	21194.4000	63.55	41.36	-22.19	74.00	32.64	100	350	PK	Horizontal	PASS
4	21550.8000	53.74	31.91	-21.83	54.00	22.09	100	90	AV	Horizontal	PASS
5	23253.6000	62.45	42.98	-19.47	74.00	31.02	100	260	PK	Horizontal	PASS
6	23258.0000	52.97	33.51	-19.46	54.00	20.49	100	320	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level



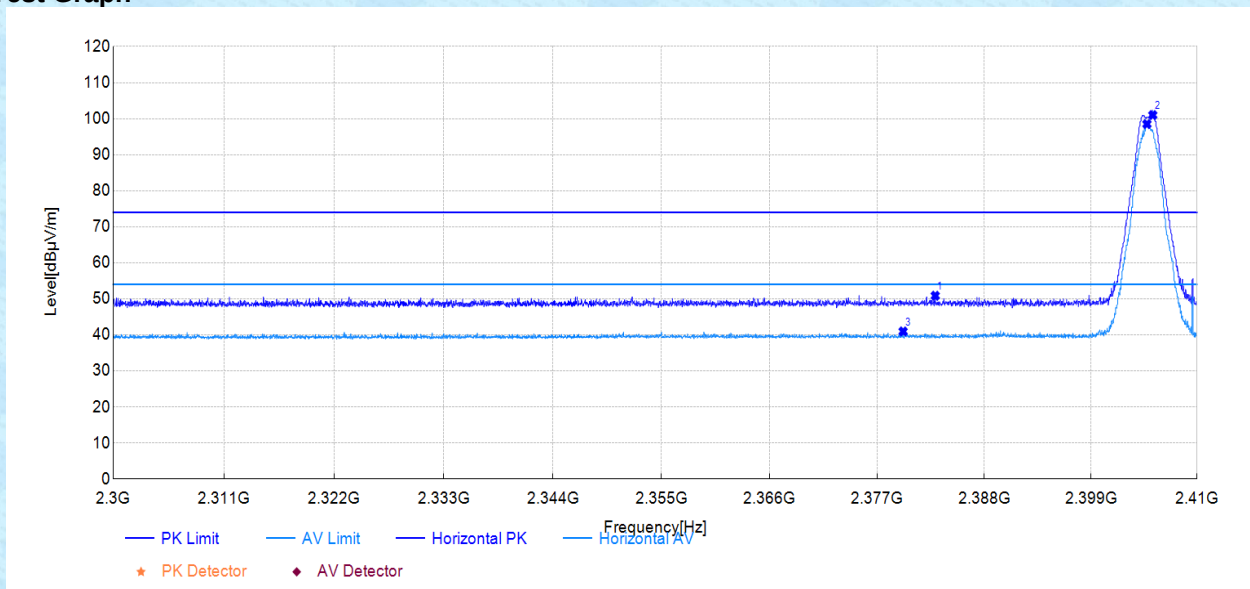
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	18660.0000	67.19	43.41	-23.78	74.00	30.59	100	310	PK	Vertical	PASS
2	18910.8000	57.45	33.81	-23.64	54.00	20.19	100	310	AV	Vertical	PASS
3	20446.4000	64.68	41.76	-22.92	74.00	32.24	100	90	PK	Vertical	PASS
4	21845.6000	54.91	33.34	-21.57	54.00	20.66	100	160	AV	Vertical	PASS
5	22835.6000	62.89	42.82	-20.07	74.00	31.18	100	200	PK	Vertical	PASS
6	23068.8000	54.03	34.29	-19.74	54.00	19.71	100	320	AV	Vertical	PASS

Note: (1) Level = Reading + Factor
(2) Margin = Limit - Level

Radiated Restricted Band Edge Measurement

Test Mode:	Zigbee	Test Date:	2026-01-09
Test Channel:	2405	Test Engineer:	Jawb Cai
Remark:	/		

Test Graph



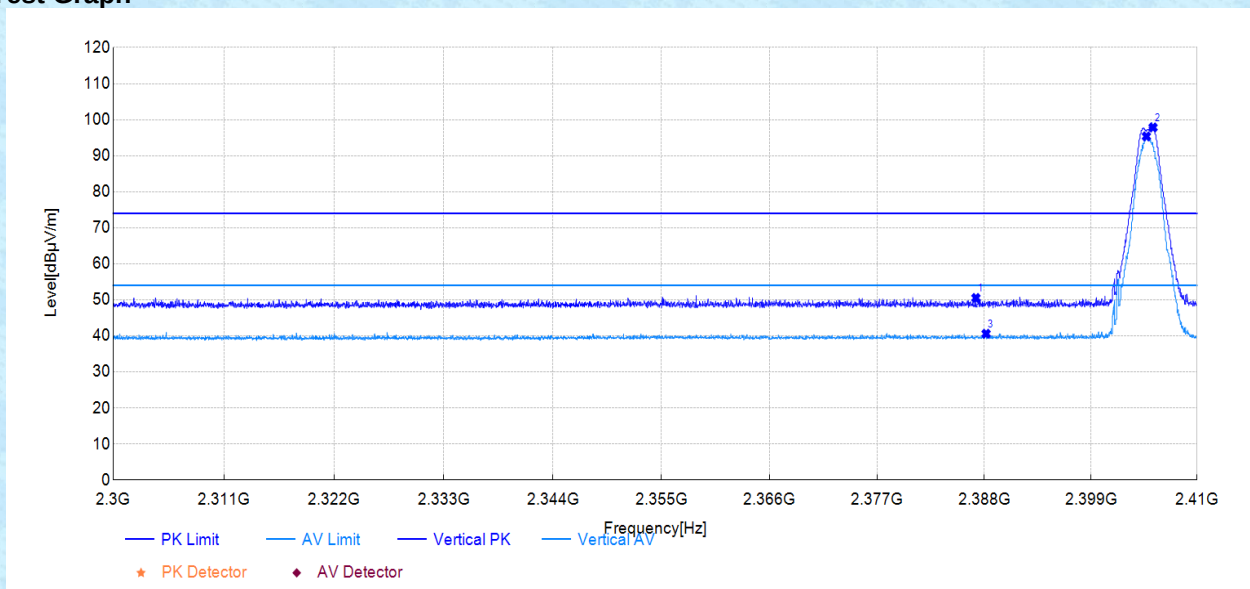
Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2382.96	15.54	50.86	35.32	74.00	23.14	150	122	PK	Horizontal	PASS
2	2405.41	65.68	100.99	35.31	/	/	150	302	PK	Horizontal	PASS
3	2379.66	5.63	40.96	35.33	54.00	13.04	150	185	AV	Horizontal	PASS
4	2404.80	63.19	98.50	35.31	/	/	150	298	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

Test Mode:	Zigbee	Test Date:	2026-01-09
Test Channel:	2405	Test Engineer:	Jawb Cai
Remark:	/		

Test Graph

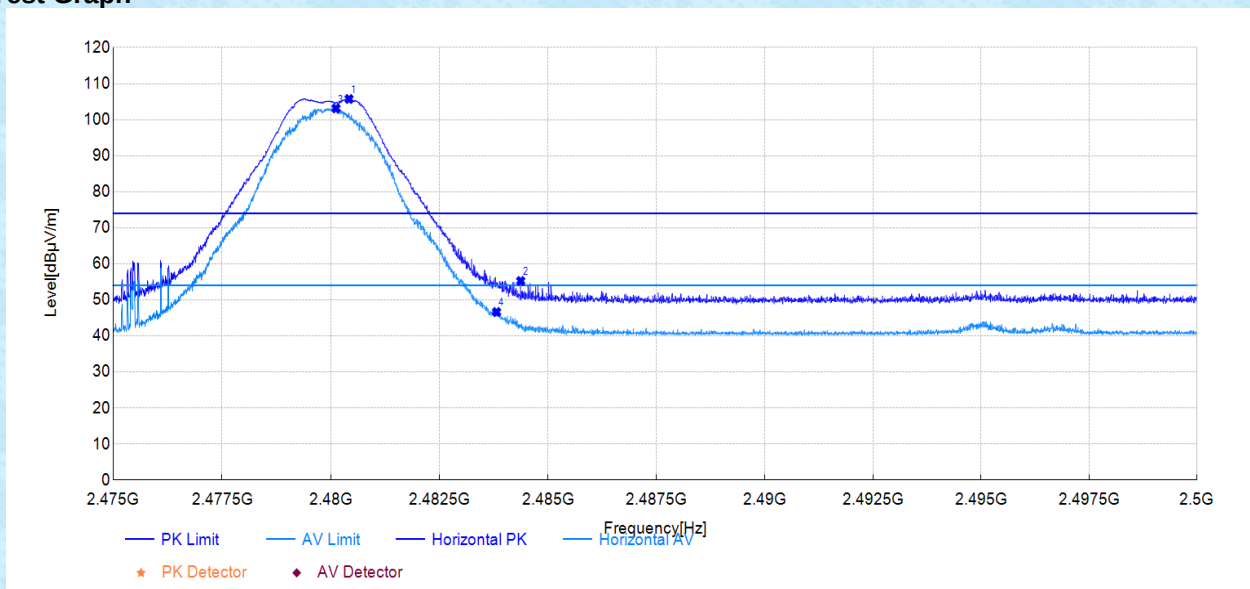


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2387.14	15.16	50.52	35.36	74.00	23.48	150	179	PK	Vertical	PASS
2	2405.43	62.47	97.84	35.37	/	/	150	274	PK	Vertical	PASS
3	2388.19	5.24	40.60	35.36	54.00	13.40	150	337	AV	Vertical	PASS
4	2404.75	59.99	95.36	35.37	/	/	150	279	AV	Vertical	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Mode:	Zigbee	Test Date:	2026-01-09
Test Channel:	2480	Test Engineer:	Jawb Cai
Remark:	/		

Test Graph

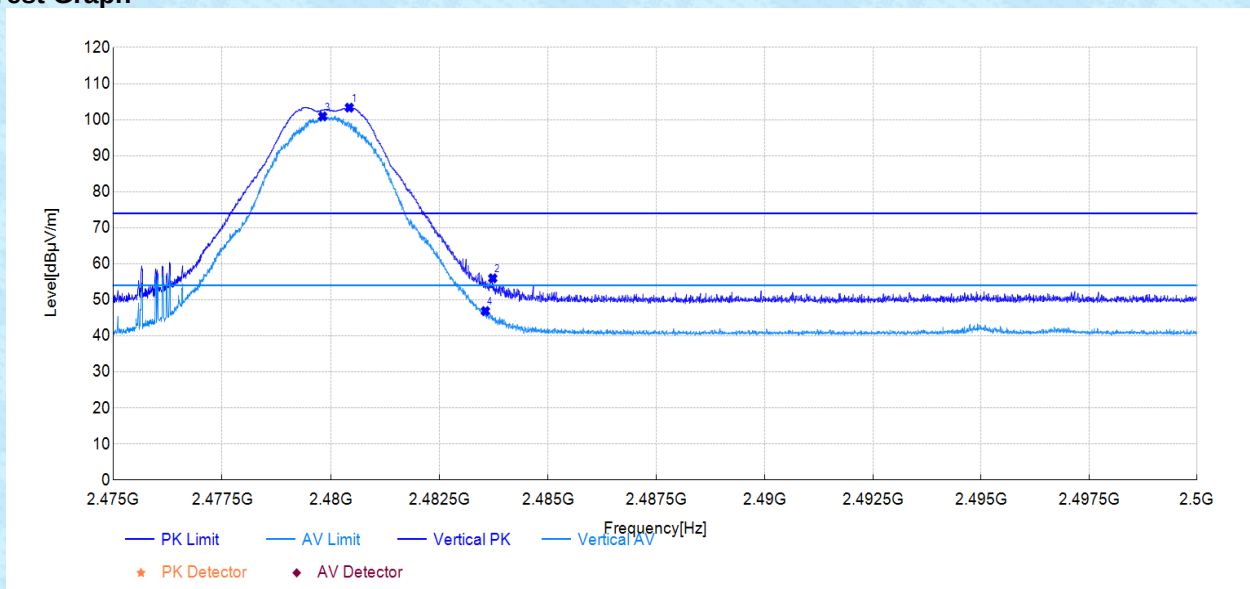


Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2480.42	69.75	105.73	35.98	/	/	150	289	PK	Horizontal	PASS
2	2484.37	19.21	55.23	36.02	74.00	18.77	150	293	PK	Horizontal	PASS
3	2480.12	67.14	103.12	35.98	/	/	150	293	AV	Horizontal	PASS
4	2483.81	10.61	46.63	36.02	54.00	7.37	150	289	AV	Horizontal	PASS

Note:(1)Level=Reading+Factor
(2)Margin=Limit-Level

Test Mode:	Zigbee	Test Date:	2026-01-09
Test Channel:	2480	Test Engineer:	Jawb Cai
Remark:	/		

Test Graph



Suspected Data List											
NO.	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Height [cm]	Angle [°]	Det	Polarity	Verdict
1	2480.43	67.27	103.34	36.07	/	/	150	246	PK	Vertical	PASS
2	2483.73	19.87	55.98	36.11	74.00	18.02	150	242	PK	Vertical	PASS
3	2479.81	64.84	100.91	36.07	/	/	150	246	AV	Vertical	PASS
4	2483.56	10.77	46.88	36.11	54.00	7.12	150	246	AV	Vertical	PASS

Note:(1)Level=Reading+Factor

(2)Margin=Limit-Level

8 Test Setup Photo

Reference to the **appendix I** for details.

EUT Constructional Details

Reference to the **appendix II** for details.

-----End-----