

Prüfbericht-Nr.: Test report no.:	CN22FSQ3 001	Auftrags-Nr.: Order no.:	168379176	Seite 1 von 20 Page 1 of 20	
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2022-06-27		
Auftraggeber: Client:	Beijing Siemens Cerberus Electronics Ltd. No.1 Fengzhi Donglu, Xibeiwang, Haidian District, Beijing P.R. China				
Prüfgegenstand: Test item:	Thread room sensor				
Bezeichnung / Typ-Nr.: Identification / Type no.:	QAA2890/WI, QFA2890/WI, QPA2892/WI (Trademark: Siemens)				
Auftrags-Inhalt: Order content:	Test Report				
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 CFR47 FCC Part 15: Subpart C Section 15.209 CFR47 FCC Part 15: Subpart B Section 15.109 RSS-247 Issue 2 February 2017 RSS-Gen Issue 5 March 2019 ICES-003 Issue 7 October 2020				
Wareneingangsdatum: Date of sample receipt:	2021-06-30	Please refer to Photo Document			
Prüfmuster-Nr.: Test sample no:	A003277000-001~003 A003277000-005~008				
Prüfzeitraum: Testing period:	2022-07-04 – 2022-07-29				
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.				
Prüfergebnis*: Test result*:	Pass				
geprüft von: tested by:			genehmigt von: authorized by:		
Datum: Date: 2022-08-29	Signed by: Bell Hu		Ausstellungsdatum: Issue date: 2022-08-29	Signed by: Lin Lin	
Stellung / Position:	Project Manager		Stellung / Position:	Reviewer	
Sonstiges / Other:	FCC ID: 2AL8A289X IC: 22795-289X PMN: Thread room sensor HVIN: QAA2890/WI, QFA2890/WI, QPA2892/WI				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged				
* Legende:	1 = sehr gut P(ass) = entspricht o.g. Prüfgrundlage(n)	2 = gut F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	3 = befriedigend F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	4 = ausreichend N/A = nicht anwendbar	5 = mangelhaft N/T = nicht getestet
* Legend:	1 = very good P(ass) = passed a.m. test specification(s)	2 = good F(ail) = failed a.m. test specification(s)	3 = satisfactory F(ail) = failed a.m. test specification(s)	4 = sufficient N/A = not applicable	5 = poor N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

V05

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 6dB BANDWIDTH

RESULT: Pass

5.1.5 99% BANDWIDTH

RESULT: Pass

5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.8 RADIATED EMISSIONS

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

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

Appendix A: Photographs of the Test Set-up

Appendix B: Test Results.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China.

FCC Registration No.: CN1260

IC Registration No.: 25069 and the CAB identifier is CN0078.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2022-09-28
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2022-09-28
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2022-09-28
DC power supply	Keysight	E3642A	MY61276100	2022-09-28
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2022-09-28
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2022-09-28
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	Y LX23JMF	N/A
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2024-06-22
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2022-08-10
Signal Analyzer	R&S	FSV 40	101439	2022-08-09
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2022-08-09
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2022-08-09
Amplifier	R&S	SCU-18F	180070	2022-08-09
Amplifier	R&S	SCU40A	100475	2022-08-09
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2022-08-08
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2022-08-08
Wideband Ridged Horn Antenna	Steatite	QMS-00880	19067	2022-08-08

(18-40 GHz)				
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2022-09-13
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	2024-06-22

Radiated Emission (10m chamber)				
Equipment	Manufacturer	Model No.	Serial No.	Cal. Until
10m SAC	ETS-Lindgren	SAC10	CT001632-Q1399	2024-03-01
EMI Test Receiver 1	R&S	ESR7	102022	2022-08-10
EMI Test Receiver 2	R&S	ESR7	102023	2022-08-10
Bilog Antenna 1	TESEQ	CBL6112D	51321	2022-08-08
Bilog Antenna 2	TESEQ	CBL6112D	51322	2023-07-07
Preamplifier 1 (30-1000MHz)	SCHWARZBECK	BBV9745	115	2022-08-13
Preamplifier 2 (30-1000MHz)	EMCI	EMC9135-P	980629	2022-08-13
Preamplifier 3 (1-18GHz)	FIT	SCU-18F	180076	2022-08-13
Horn Antenna	R&S	HF907	102707	2023-07-03
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

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

Parameter	Uncertainty
Occupied Channel Bandwidth	± 2.08 %
RF output power, conducted	± 0.99 dB
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	± 4.17 dB
Radiated Emission (10m SAC), 30MHz to 1000MHz	± 4.66 dB
Radiated Emission (10m SAC), above 1000MHz	± 4.35 dB

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2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No. 362 Huanguan Road Middle, Longhua District, 518110, Shenzhen, P. R. China. is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The product is a Thread room sensor which supports 2.4GHz Thread wireless technology.

Only different in Model name and battery for market purpose.

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

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	Thread room sensor
Type Designation:	QAA2890/WI, QFA2890/WI, QPA2892/WI
Trademark:	Siemens
FCC ID:	2AL8A289X
IC:	22795-289X
HVIN:	QAA2890/WI, QFA2890/WI, QPA2892/WI
Operating Voltage:	DC 4.5V (3*AAA alkaline batteries) for QAA2890/WI, QFA2890/WI DC 3V (2*AA alkaline batteries) for QPA2892/WI
Technical Specification of Thread	
Frequency Range:	2405 MHz to 2480 MHz
Type of Modulation:	DSSS(DBPSK/DQPSK/CCK)
Channel Number:	16 channels
Channel Separation:	5 MHz
Antenna Type	Integral antenna
Antenna Gain:	2.65 dBi

Table 3: RF Channel and Frequency of Thread

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
1	2405	5	2425	9	2445	13	2465
2	2410	6	2430	10	2450	14	2470
3	2415	7	2435	11	2455	15	2475
4	2420	8	2440	12	2460	16	2480

Test frequencies are lowest channel: 2405 MHz, middle channel: 2440 MHz and highest channel: 2480 MHz for Thread

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, 2.4GHz Thread transmitting mode
 - 1) Low Channel
 - 2) Middle Channel
 - 3) High Channel
- B. On, Normal working with Thread Linked
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- FCC/IC Label and Location Info
- User Manual

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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

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

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013 & ANSI C63.4:2014.

According to clause 3.1, all tests were performed in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 4: Auxiliary Equipment Used during Test

Description	Manufacturer	Model	S/N	Rating
Laptop	Lenovo	T480	PF-16A6N8	N/A

4.4 Countermeasures to Achieve EMC Compliance

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

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

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

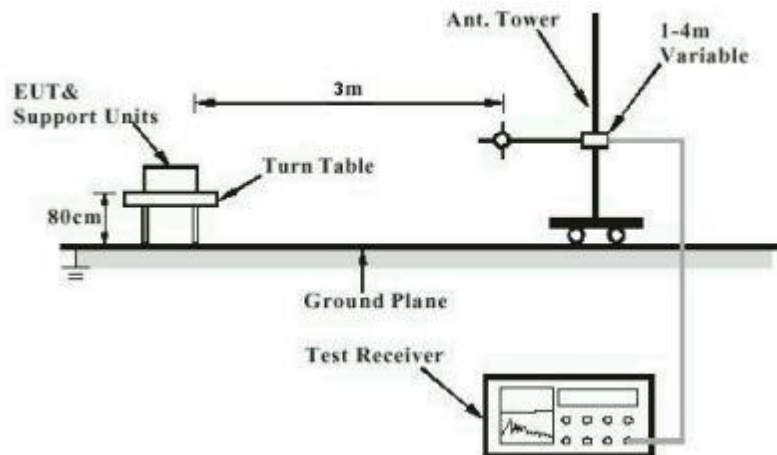


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

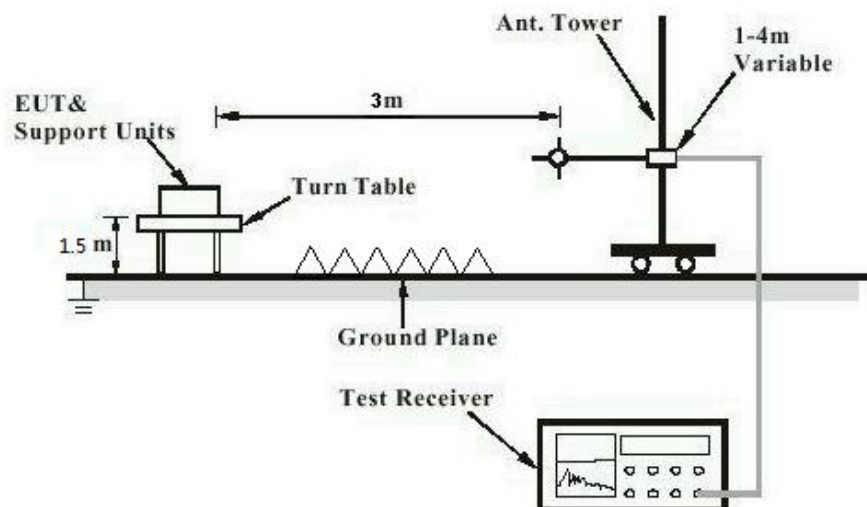
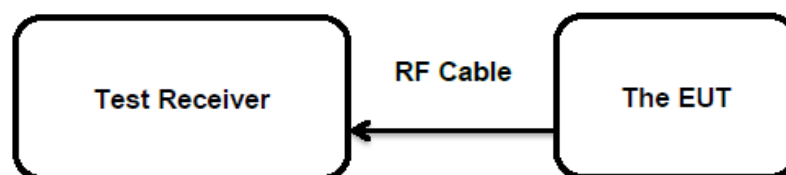


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

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

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 6.8

According to the manufacturer declared, the EUT has an Integral antenna, the directional gain of antenna is 2.65 dBi, permanent attachment and no consideration of replacement.

Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 2.65 dBi,
e.i.r.p.= $P_{(Peak\ power)} + G = 7.37\text{dBm}(0.0055\text{W})$, which is far below the 4 W

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5.1.3 Conducted Power Spectral Density

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(e)
RSS-247 Clause 5.2(b)
Basic standard : ANSI C63.10: 2013
Limits : < 8 dBm / 3kHz
Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-07-14
Input voltage : DC 3V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 24.8 °C
Relative humidity : 55 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

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5.1.4 6dB Bandwidth

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

Test standard : FCC Part 15.247(a)(2)
RSS-247 Clause 5.2(a)

Basic standard : ANSI C63.10: 2013

Limits : > 500 KHz

Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-07-14

Input voltage : DC 3V

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 24.8 °C

Relative humidity : 55 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

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5.1.5 99% Bandwidth

RESULT:

Pass

Test Specification

Test standard : RSS-Gen Clause 6.7
Basic standard : ANSI C63.10: 2013
Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-07-14
Input voltage : DC 3V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 24.8 °C
Relative humidity : 55 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: **CN22FSQ3 001**
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Page 17 of 20**5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth****RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.247(d)
RSS-247 Clause 5.5

Basic standard : ANSI C63.10: 2013

Limits : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)

Kind of test site : Shielded Room

Test Setup

Date of testing : 2022-07-14

Input voltage : DC 3V

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 24.8 °C

Relative humidity : 55 %

Atmospheric pressure : 101 kPa

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to test plots, and compliance is achieved as well.

For the measurement records, refer to the appendix B.

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5.1.7 Radiated Spurious Emission

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

Test standard	: FCC Part 15.247(d) & FCC Part 15.205 RSS-247 Clause 3.3
Basic standard	: ANSI C63.10: 2013
Limits	: Refer to 15.209(a) of FCC part 15.247(d) RSS-Gen Section 8.9 & 8.10
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2022-07-14
Input voltage	: DC 4.5V for QAA2890/WI, QFA2890/WI DC 3V for QPA2892/WI
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

Testing carried out for all models. Only the worst-case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

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5.1.8 Radiated Emissions

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

Test standard	: FCC Part 15.109(a) ICES-003 Section 3.2.2
Basic standard	: ANSI C63.4:2014
Frequency range	: 30MHz to 5 th harmonic of the highest frequency
Classification	: Class B
Limits	: FCC Part 15.109(a) ICES-003 Table 2 & 4
Kind of test site	: 10m Semi-Anechoic Chamber for Below 1GHz 3m Anechoic Chamber for Above 1GHz

Test Setup

Date of testing	: 2022-07-29
Input voltage	: DC 4.5V for QAA2890/WI, QFA2890/WI DC 3V for QPA2892/WI
Operation mode	: B
Earthing	: Not connected
Ambient temperature	: 24.1 °C
Relative humidity	: 50.6 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

Testing carried out for all models, only the worst-case reported.

6 Photographs of the Test Set-Up

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

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Appendix B.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
Thread	Ant1	2405	-9.33	≤8.00	PASS
		2440	-10.33	≤8.00	PASS
		2480	-14.36	≤8.00	PASS

Thread Ant1 2405



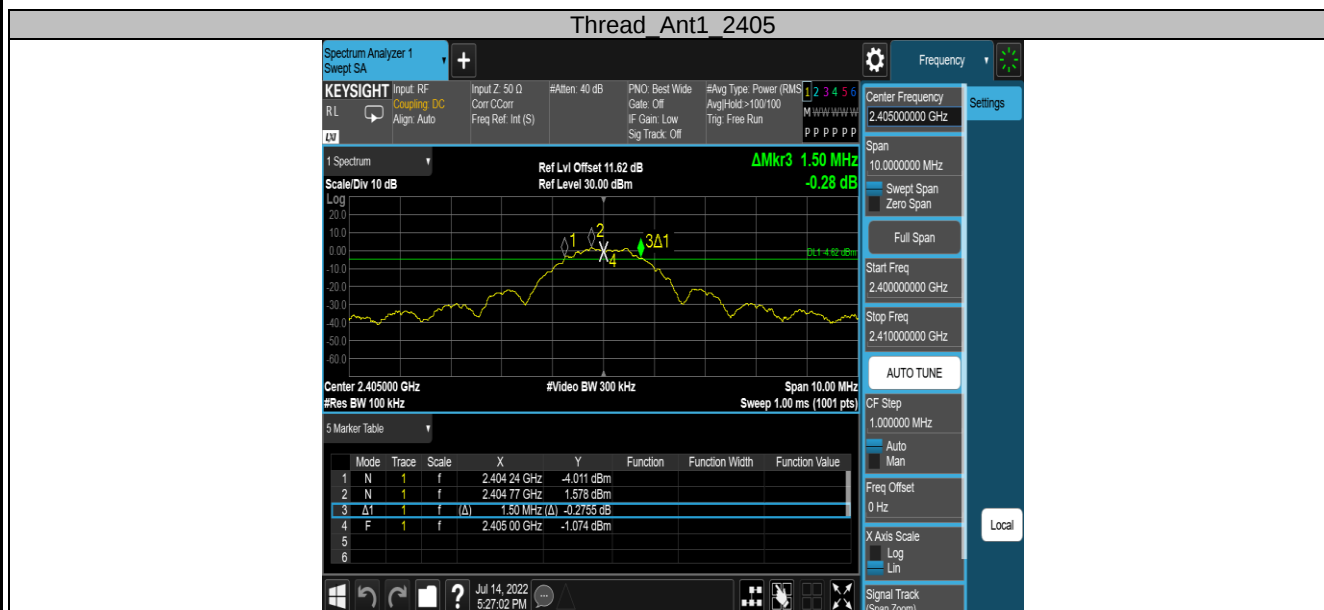
Thread Ant1 2440

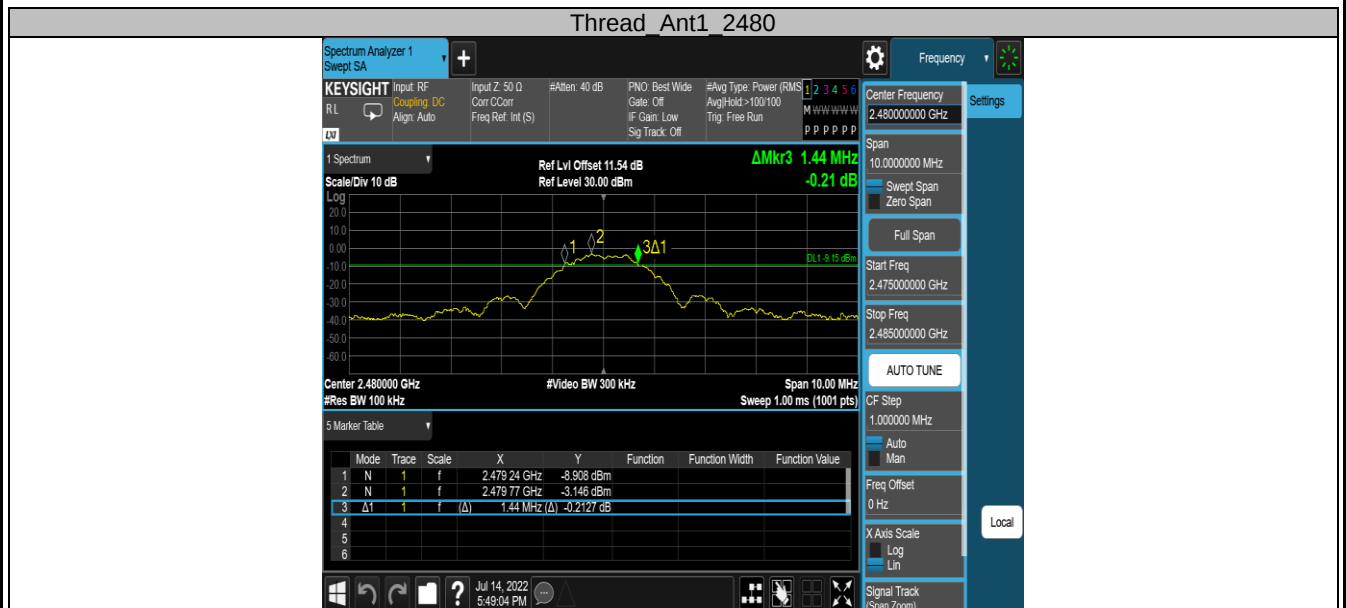


Thread Ant1 2480



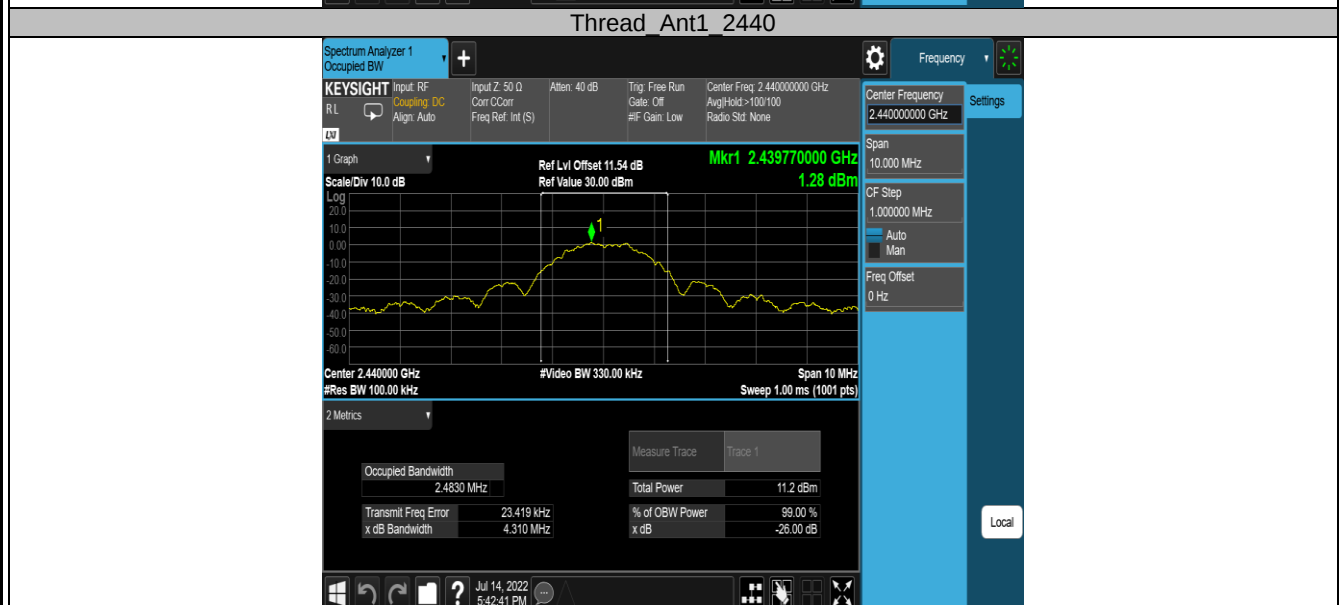
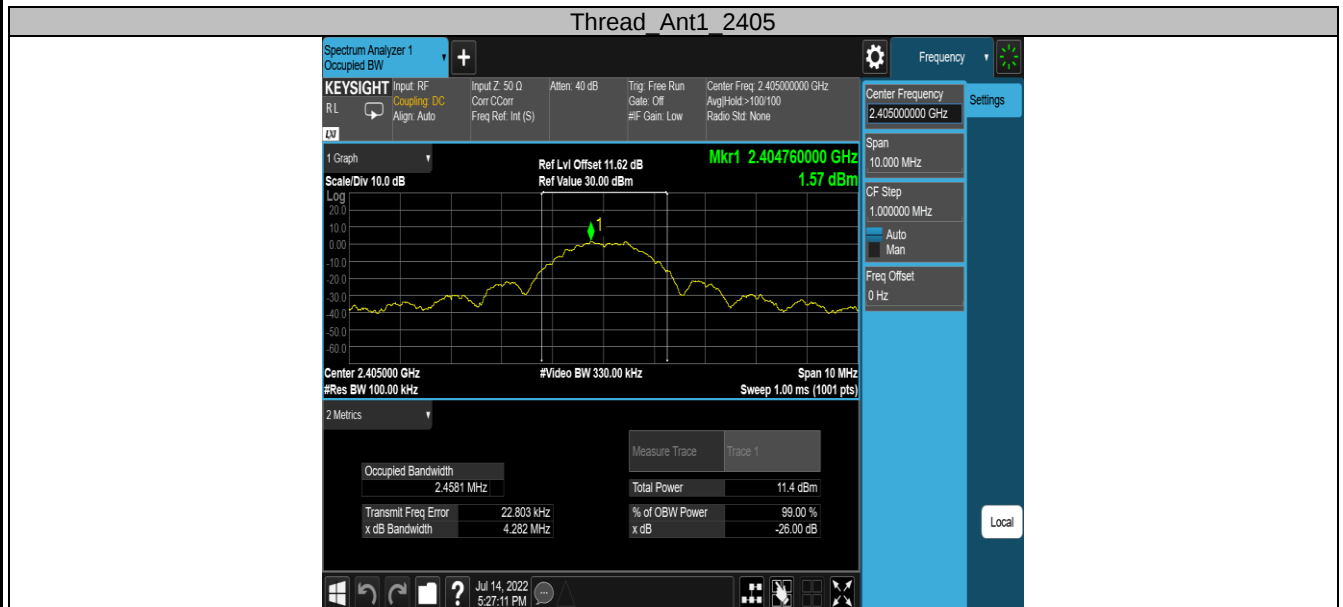
TestMode	Antenna	Frequency[MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Thread	Ant1	2405	1.500	2404.240	2405.740	0.5	PASS
		2440	1.550	2439.240	2440.790	0.5	PASS
		2480	1.440	2479.240	2480.680	0.5	PASS

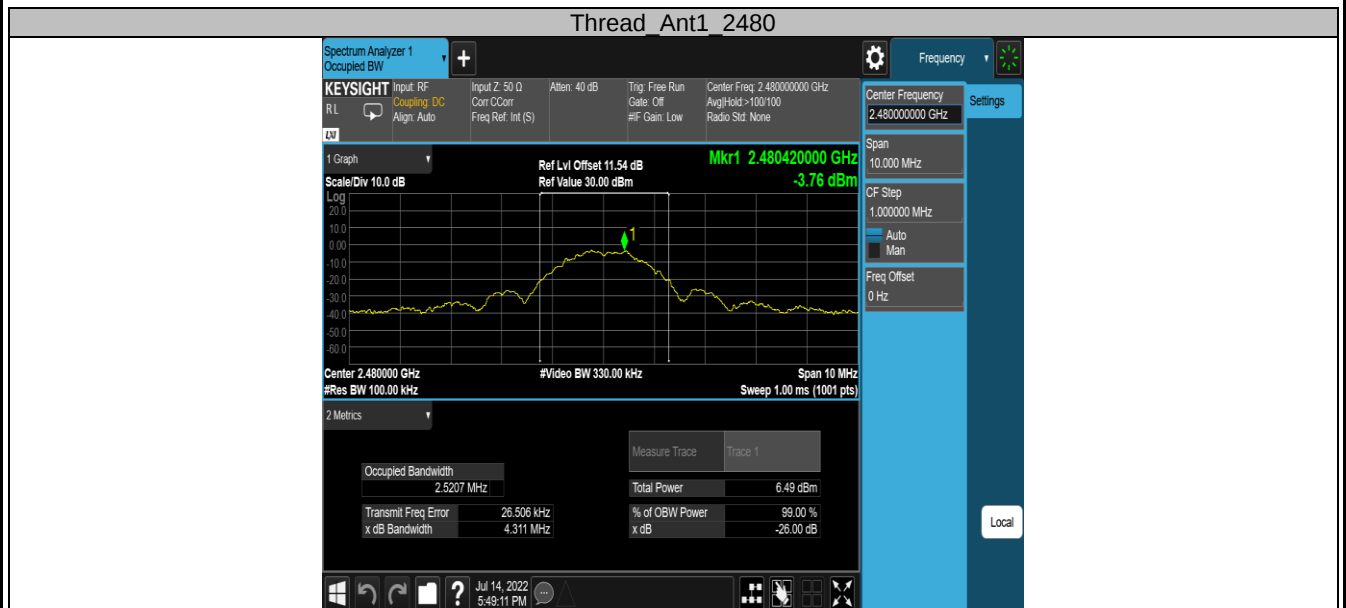




Appendix B.3: Test Results of 99% Bandwidth

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
Thread	Ant1	2405	2.4543	2403.796	2406.250	---	PASS
		2440	2.4769	2438.784	2441.261	---	PASS
		2480	2.5118	2478.771	2481.283	---	PASS





Appendix B.4: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

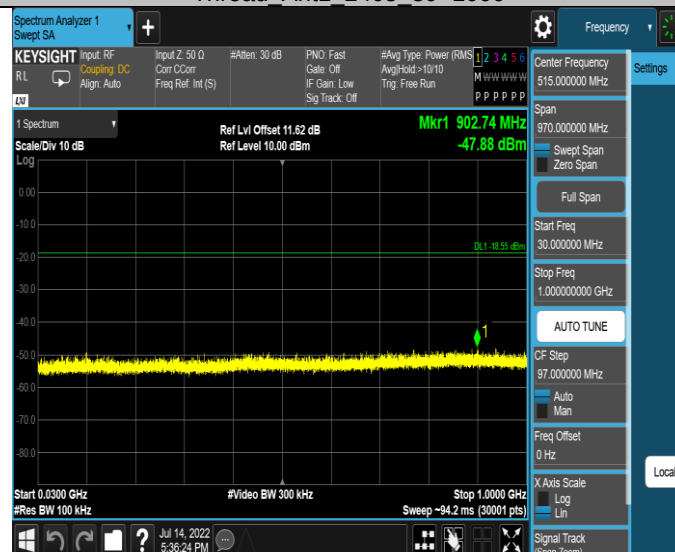
Conducted Spurious Emission

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
Thread	Ant1	2405	Reference	1.45	1.45	---	PASS
			30~1000	1.45	-47.88	≤-18.55	PASS
			1000~26500	1.45	-38.48	≤-18.55	PASS
		2440	Reference	1.45	1.45	---	PASS
			30~1000	1.45	-48.05	≤-18.55	PASS
			1000~26500	1.45	-39.3	≤-18.55	PASS
		2480	Reference	-3.24	-3.24	---	PASS
			30~1000	-3.24	-48.65	≤-23.24	PASS
			1000~26500	-3.24	-39.29	≤-23.24	PASS

Thread Ant1 2405 0-Reference



Thread Ant1 2405 30~1000



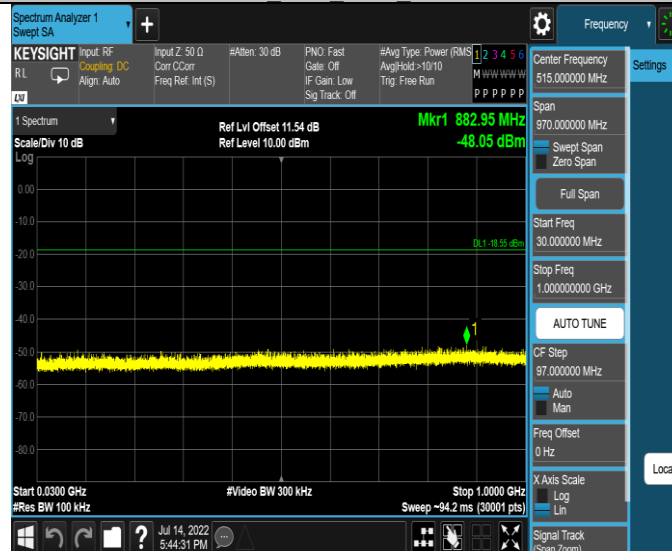
Thread Ant1 2405 1000~26500



Thread Ant1 2440 0~Reference



Thread Ant1 2440 30~1000



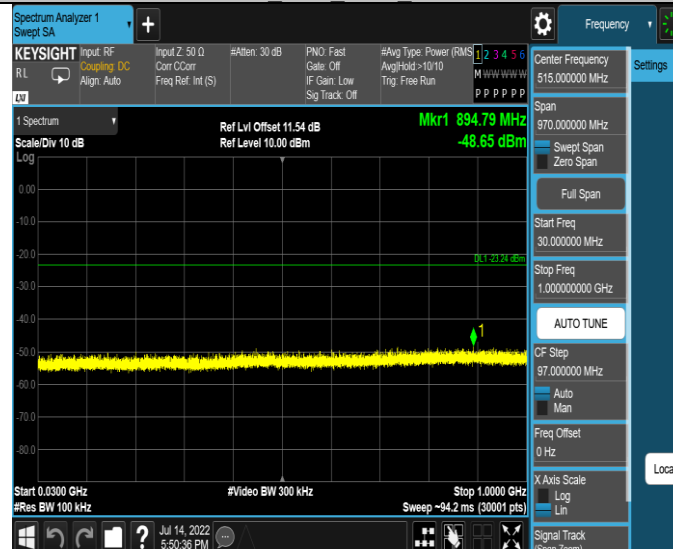
Thread Ant1 2440 1000~26500

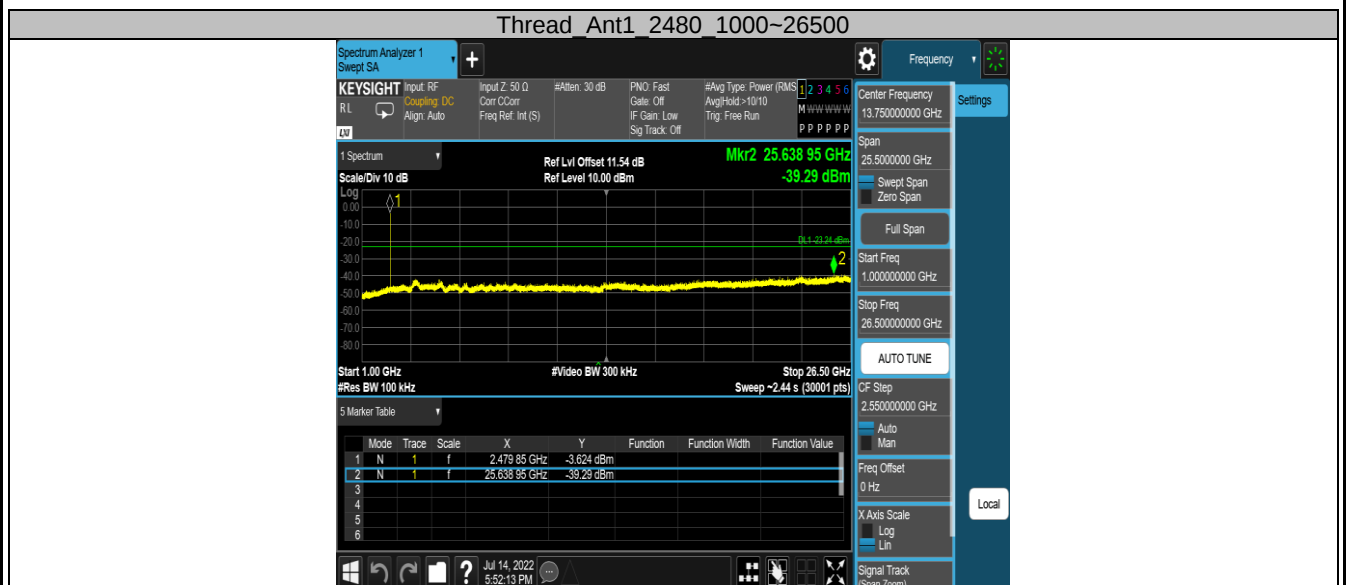


Thread Ant1 2480 0~Reference



Thread Ant1 2480 30~1000





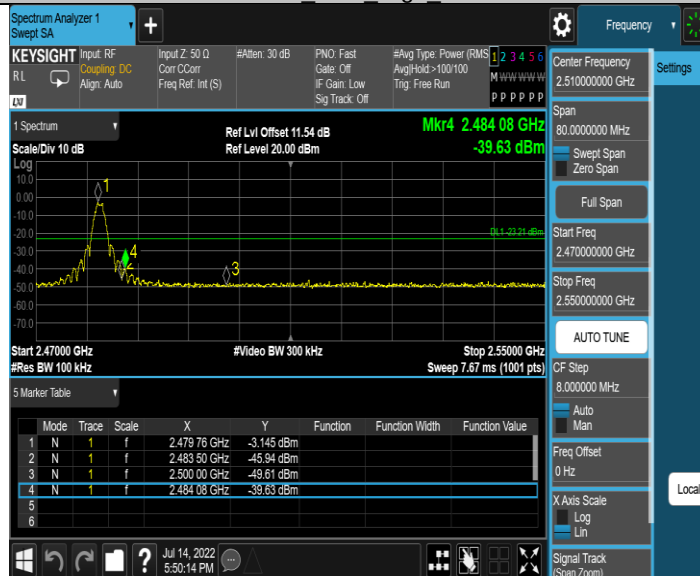
Band Edge

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
Thread	Ant1	Low	2405	1.10	-40.25	≤-18.91	PASS
		High	2480	-3.21	-39.63	≤-23.21	PASS

Thread Ant1 Low 2405



Thread Ant1 High 2480



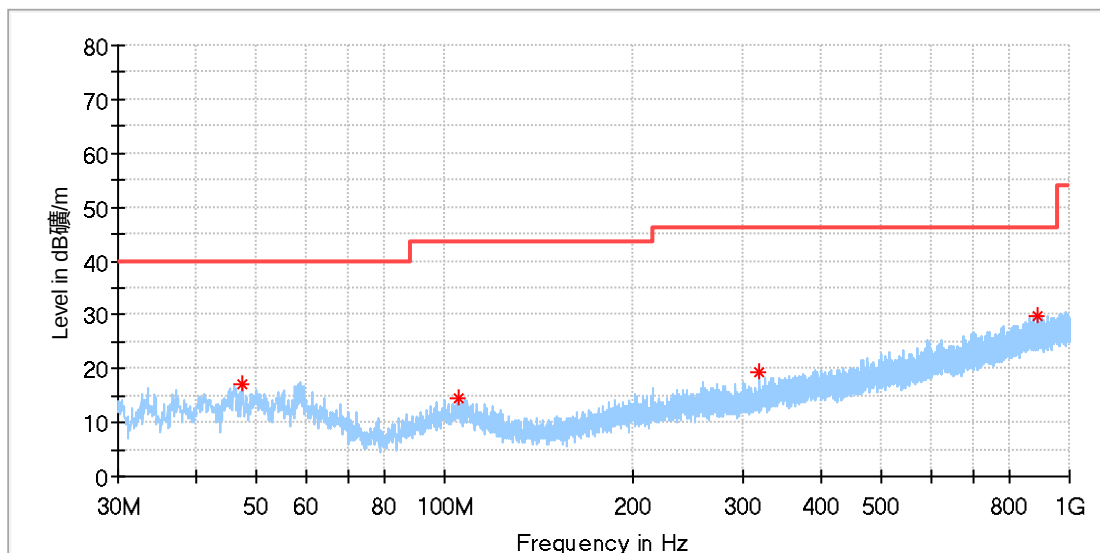
Appendix B.5: Test Results of Radiated Spurious Emissions

Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30 MHz to 1GHz

EUT Information

EUT Name:	Thread room sensor
Model:	QPA2892/WI
Test Mode:	Thread_Low channel
Order No/Sample No:	168379176/A003277000-007
Test Voltage:	Batteries
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

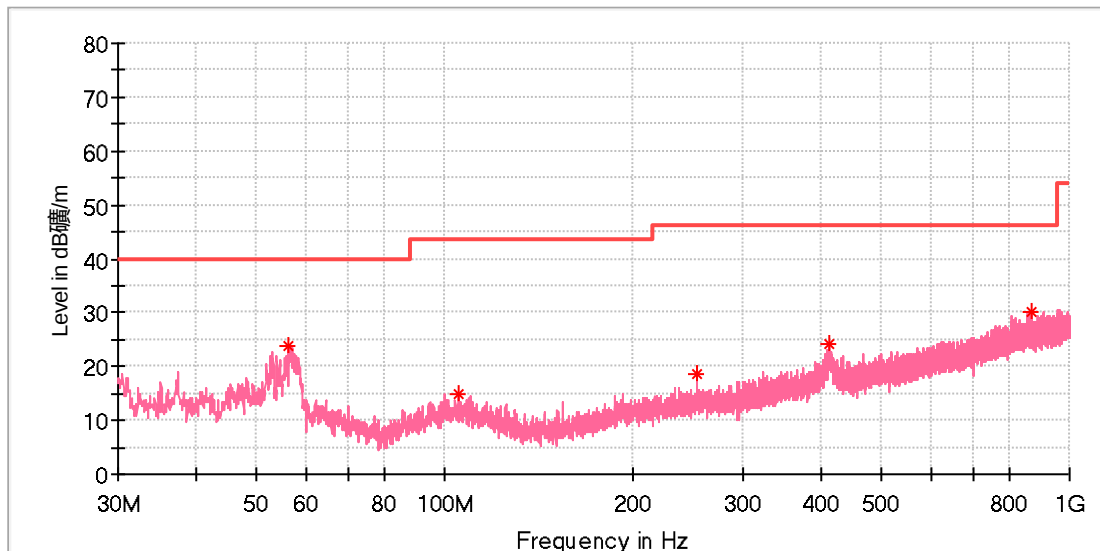
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
47.508500	17.03	40.00	22.97	100.0	H	0.0	-18.4
105.320500	14.55	43.50	28.95	100.0	H	0.0	-18.8
318.041500	19.52	46.00	26.48	100.0	H	0.0	-15.8
889.274500	29.84	46.00	16.16	100.0	H	265.0	-5.1

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Thread room sensor
Model: QPA2892/WI
Test Mode: Thread_Low channel
Order No/Sample No: 168379176/A003277000-007
Test Voltage: Batteries
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

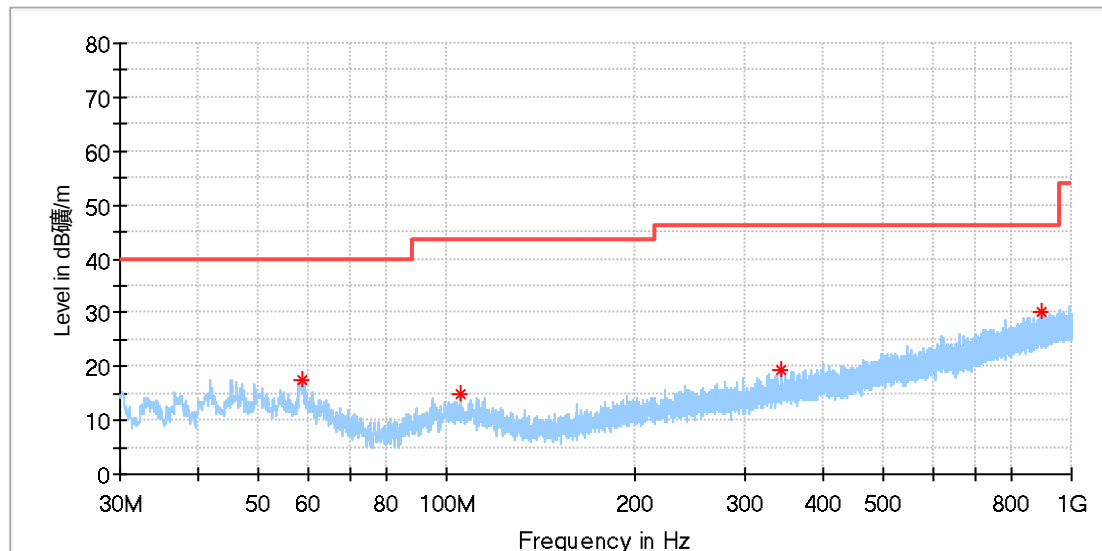
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
56.093000	23.79	40.00	16.21	100.0	V	325.0	-18.6
105.078000	15.00	43.50	28.50	100.0	V	153.0	-18.7
253.585000	18.79	46.00	27.21	100.0	V	297.0	-17.2
413.586500	24.17	46.00	21.83	100.0	V	105.0	-13.5
871.523500	30.20	46.00	15.80	100.0	V	233.0	-5.2

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Thread room sensor
Model: QPA2892/WI
Test Mode: Thread_High channel
Order No/Sample No: 168379176/A003277000-007
Test Voltage: Batteries
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

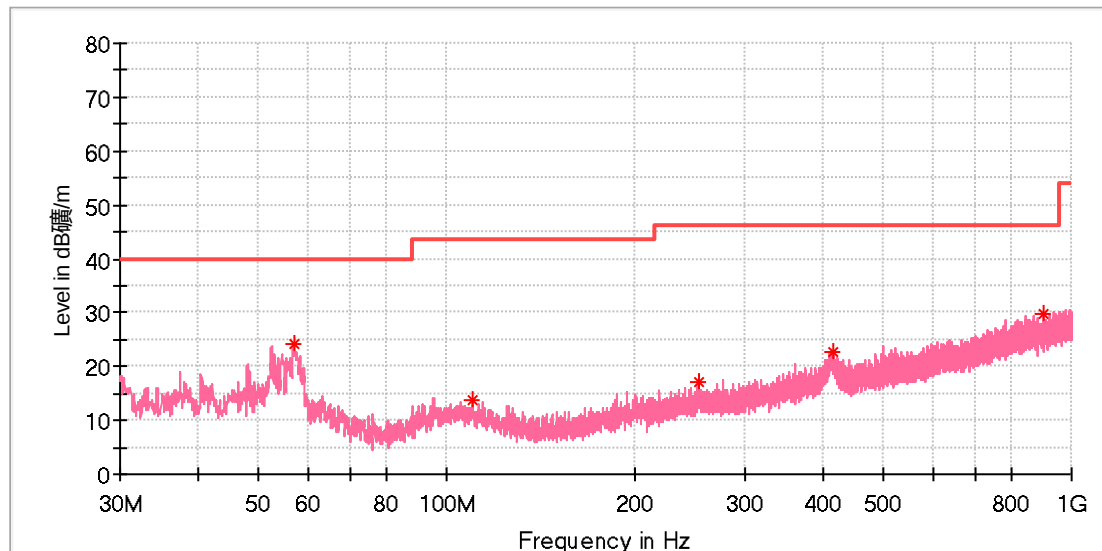
Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
58.760500	17.50	40.00	22.50	100.0	H	193.0	-18.8
104.981000	14.98	43.50	28.52	100.0	H	318.0	-18.7
343.698000	19.19	46.00	26.81	100.0	H	325.0	-14.9
894.173000	30.25	46.00	15.75	100.0	H	318.0	-5.0

Final_Result

Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---	---	---	---

EUT Information

EUT Name: Thread room sensor
Model: QPA2892/WI
Test Mode: Thread_High channel
Order No/Sample No: 168379176/A003277000-007
Test Voltage: Batteries
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
56.820500	24.16	40.00	15.84	100.0	V	224.0	-18.6
110.219000	13.85	43.50	29.65	100.0	V	174.0	-19.1
253.536500	17.29	46.00	28.71	100.0	V	218.0	-17.2
414.508000	22.75	46.00	23.25	100.0	V	238.0	-13.5
902.078500	29.84	46.00	16.16	100.0	V	272.0	-5.0

Final_Result

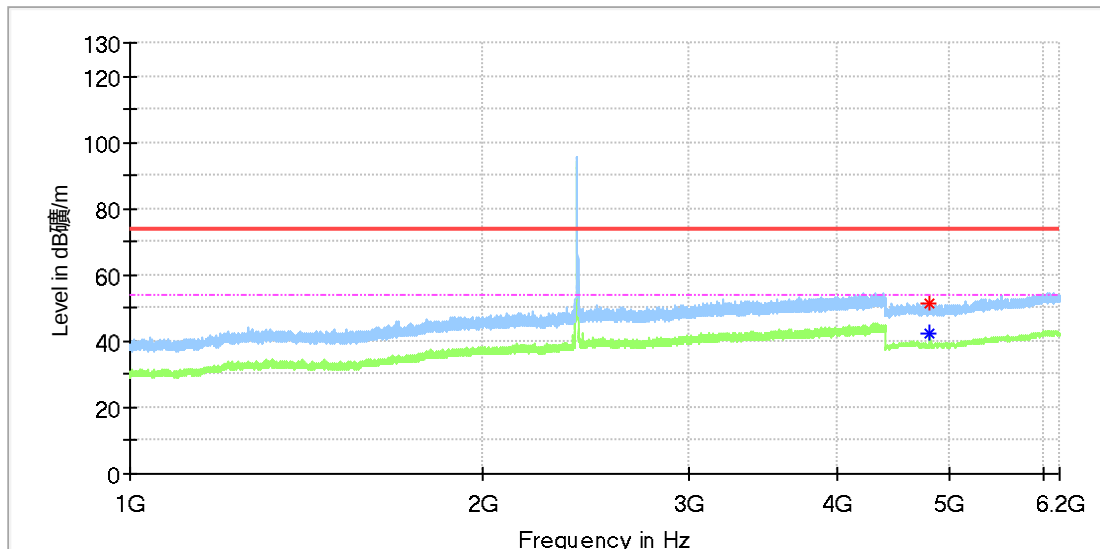
Frequency (MHz)	QuasiPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

1GHz to 18GHz

Note: The highest waveform in the figure is Thread Fundamental.

EUT Information

EUT Name:	Thread room sensor
Model:	QPA2892/WI
Test Mode:	Thread_Low channel
Order No/Sample No:	168379176/A003277000-007
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

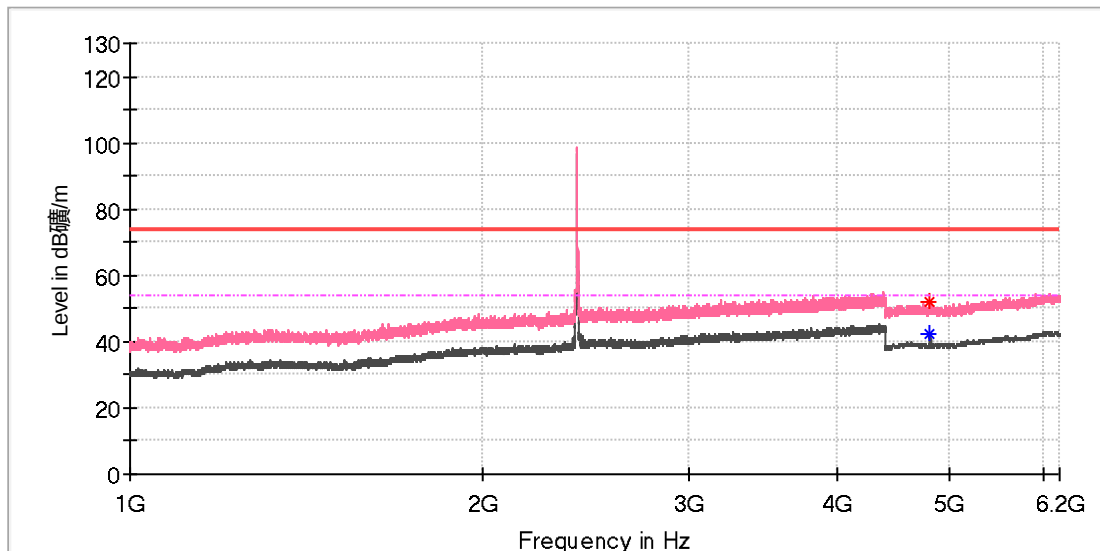
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4809.000000	51.69	---	74.00	22.31	100.0	H	3.0	11.8
4809.000000	---	42.24	54.00	11.76	100.0	H	3.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Thread room sensor
Model: QPA2892/WI
Test Mode: Thread_Low channel
Order No/Sample No: 168379176/A003277000-007
Test Voltage: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

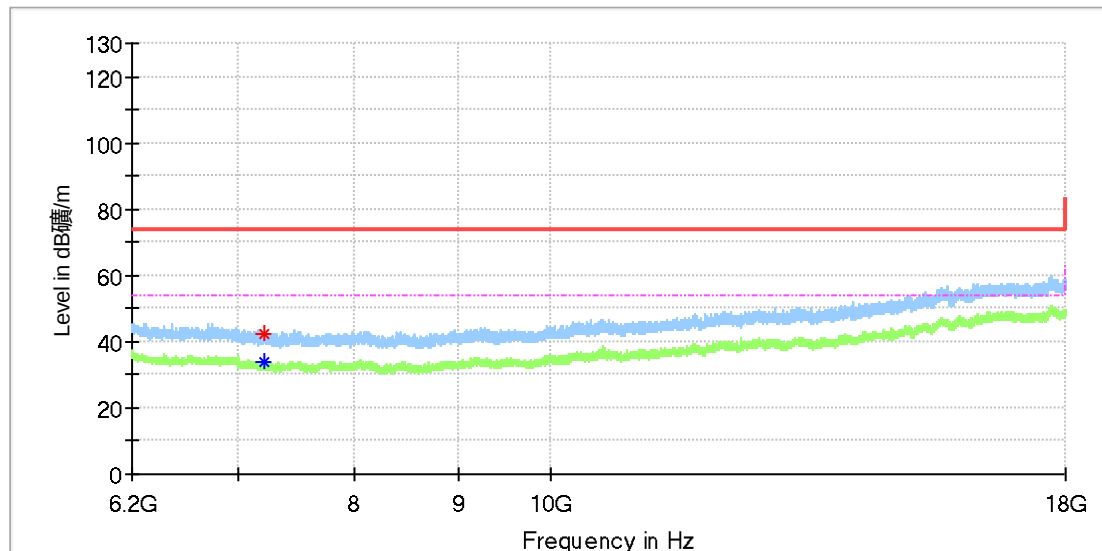
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4810.500000	51.78	---	74.00	22.22	100.0	V	114.0	11.8
4810.500000	---	42.52	54.00	11.48	100.0	V	114.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Thread room sensor
Model:	QPA2892/WI
Test Mode:	Thread_Low channel
Order No/Sample No:	168379176/A003277000-007
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

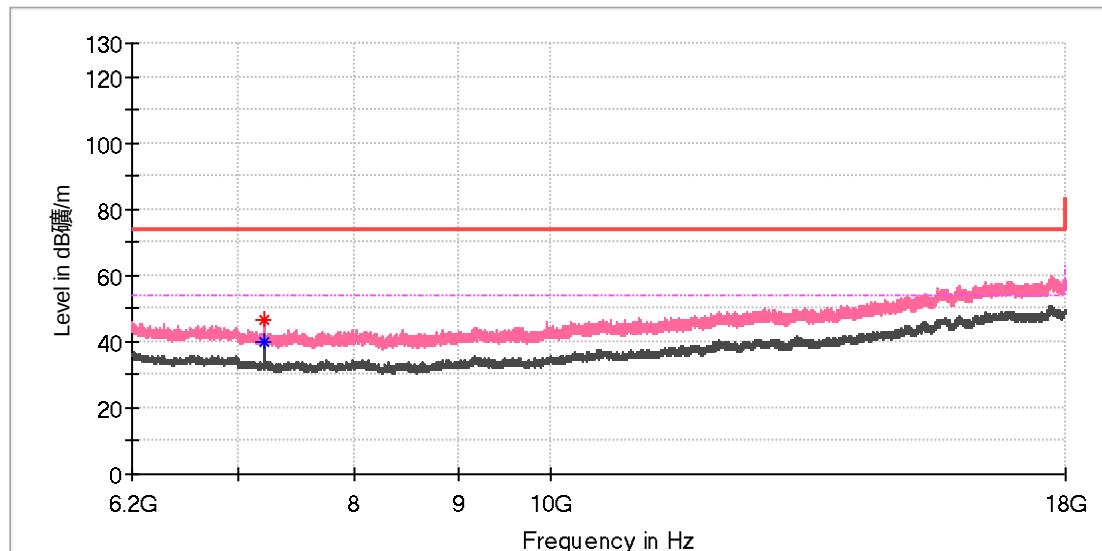
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7204.966667	---	33.73	54.00	20.27	100.0	H	246.0	8.8
7213.325000	42.46	---	74.00	31.54	100.0	H	342.0	8.7

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Thread room sensor
Model:	QPA2892/WI
Test Mode:	Thread_Low channel
Order No/Sample No:	168379176/A003277000-007
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

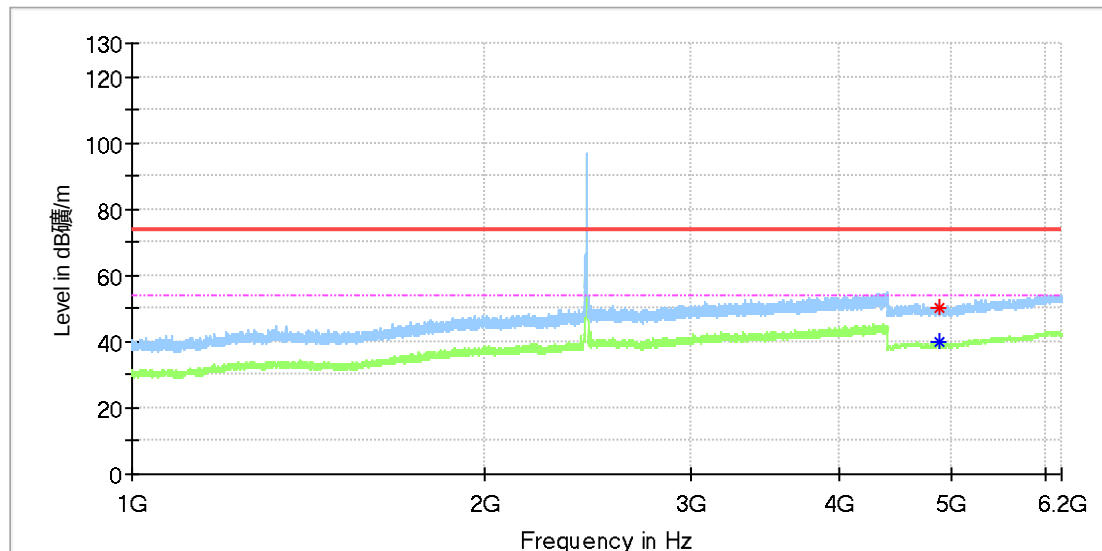
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7215.783333	---	40.01	54.00	13.99	100.0	V	249.0	8.7
7216.275000	46.84	---	74.00	27.16	100.0	V	249.0	8.7

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Thread room sensor
Model:	QPA2892/WI
Test Mode:	Thread_Mid channel
Order No/Sample No:	168379176/A003277000-007
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

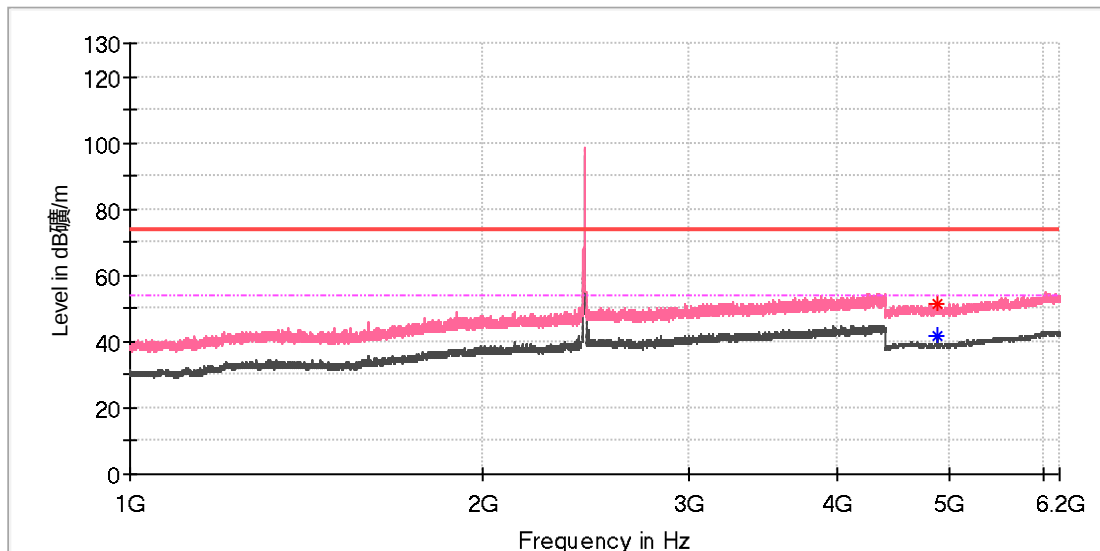
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.000000	---	40.09	54.00	13.91	100.0	H	10.0	11.8
4880.500000	50.36	---	74.00	23.64	100.0	H	134.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Thread room sensor
Model: QPA2892/WI
Test Mode: Thread_Mid channel
Order No/Sample No: 168379176/A003277000-007
Test Voltage: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

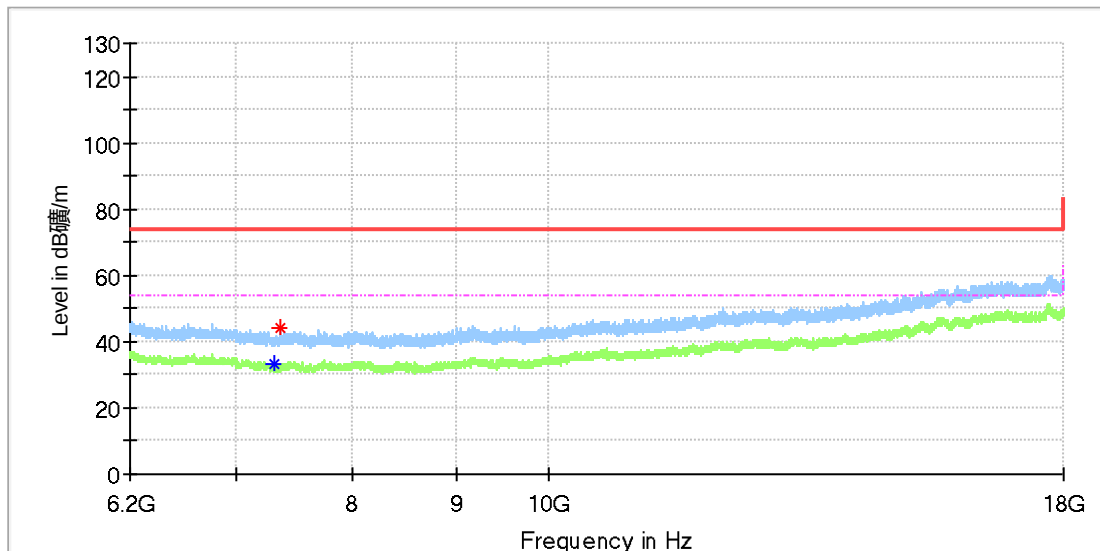
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4879.000000	51.27	---	74.00	22.73	100.0	V	128.0	11.8
4879.000000	---	41.78	54.00	12.22	100.0	V	128.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Thread room sensor
Model:	QPA2892/WI
Test Mode:	Thread_Mid channel
Order No/Sample No:	168379176/A003277000-007
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

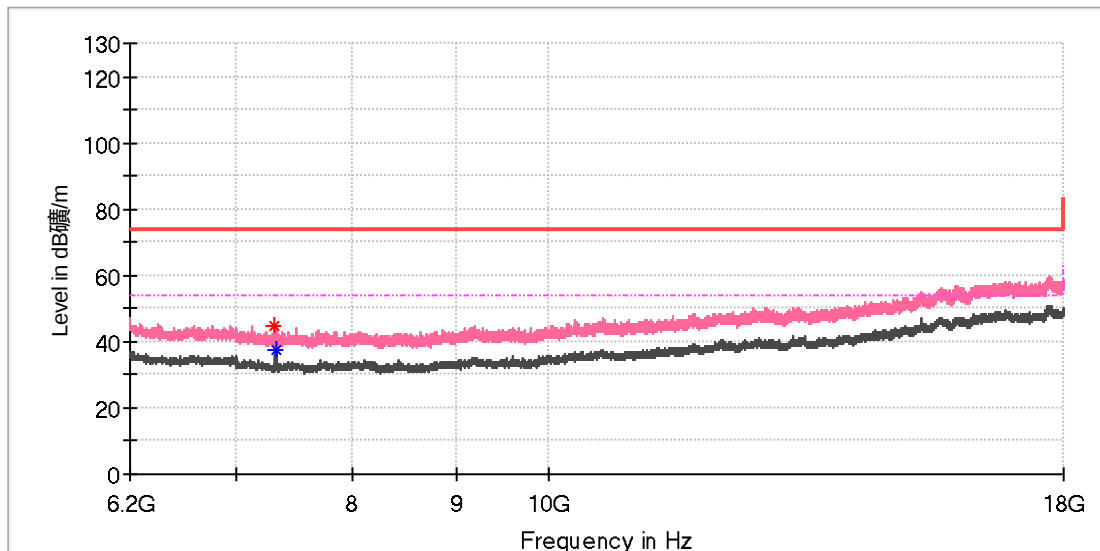
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7304.775000	---	33.55	54.00	20.45	100.0	H	102.0	8.3
7360.825000	43.96	---	74.00	30.04	100.0	H	115.0	8.2

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Thread room sensor
Model:	QPA2892/WI
Test Mode:	Thread_Mid channel
Order No/Sample No:	168379176/A003277000-007
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

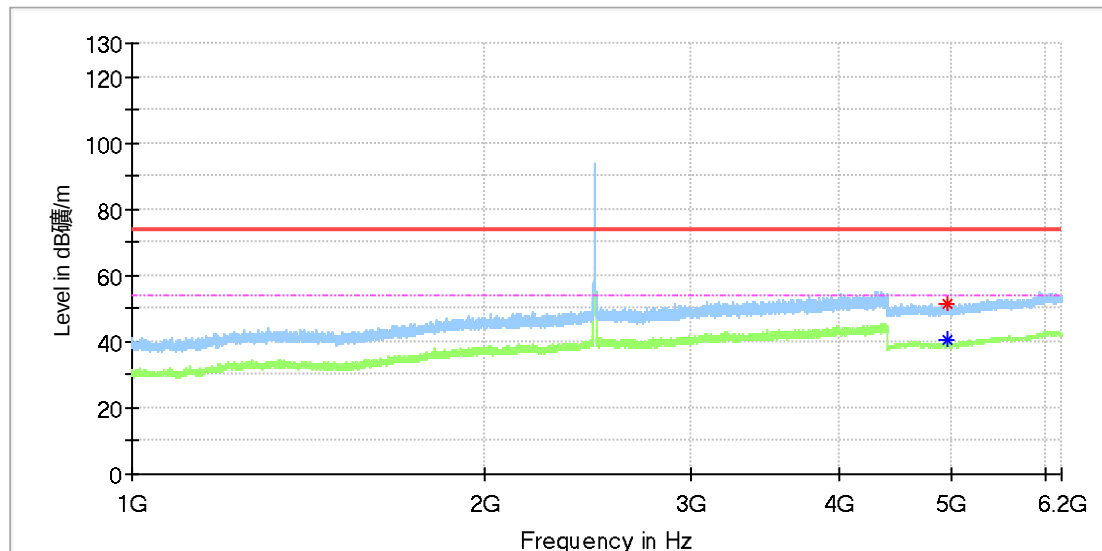
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7318.050000	44.64	---	74.00	29.36	100.0	V	223.0	8.2
7318.541667	---	37.21	54.00	16.79	100.0	V	260.0	8.2

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name: Thread room sensor
Model: QPA2892/WI
Test Mode: Thread_High channel
Order No/Sample No: 168379176/A003277000-007
Test Voltage: Battery
Remark: Temp 22 Humi:52%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical_Freqs

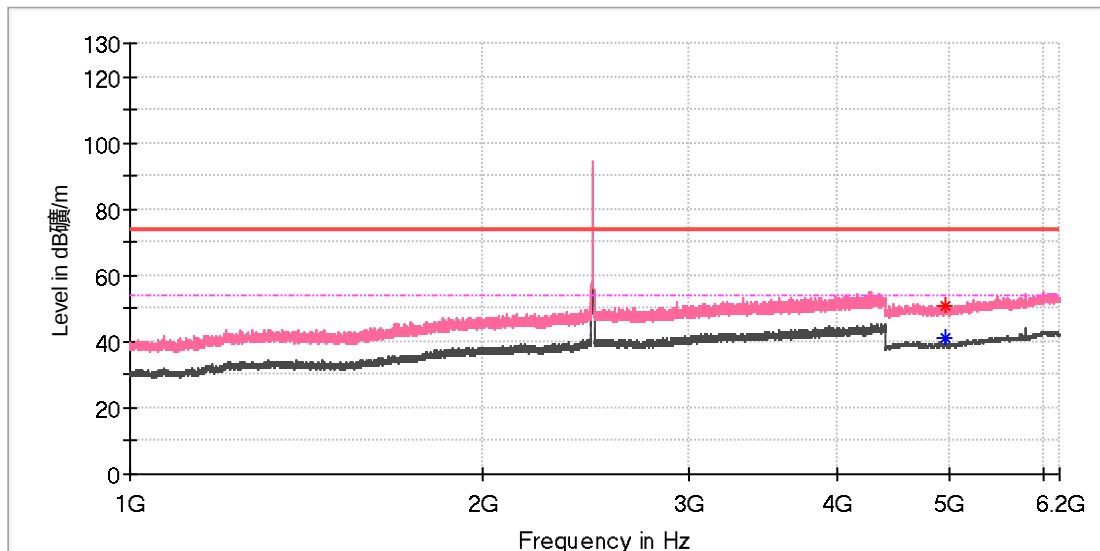
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4958.500000	---	40.23	54.00	13.77	100.0	H	103.0	11.8
4961.000000	51.64	---	74.00	22.36	100.0	H	6.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Thread room sensor
Model:	QPA2892/WI
Test Mode:	Thread_High channel
Order No/Sample No:	168379176/A003277000-007
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

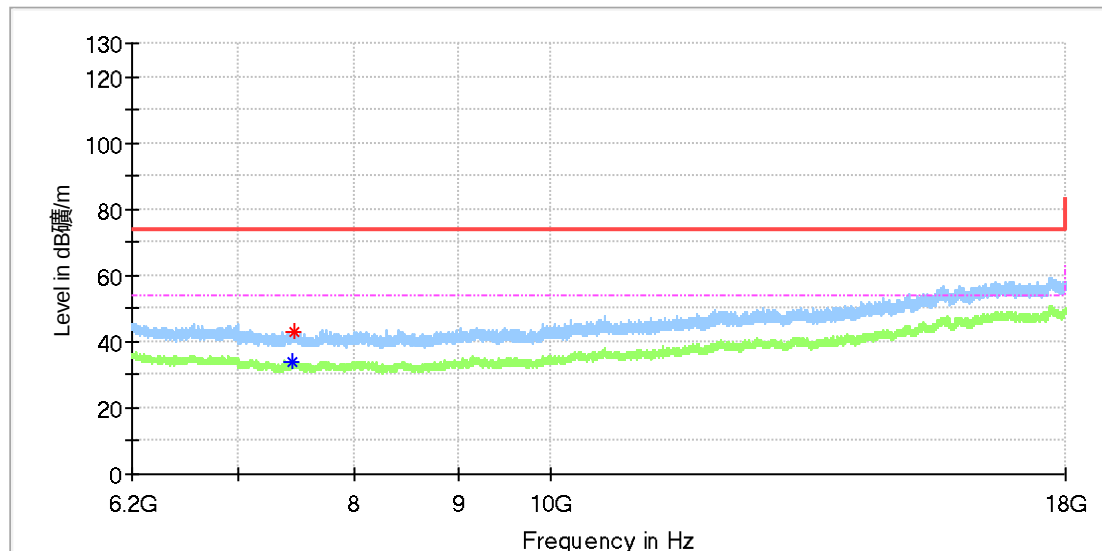
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	---	41.01	54.00	12.99	100.0	V	190.0	11.8
4960.500000	50.58	---	74.00	23.42	100.0	V	183.0	11.8

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Thread room sensor
Model:	QPA2892/WI
Test Mode:	Thread_High channel
Order No/Sample No:	168379176/A003277000-007
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

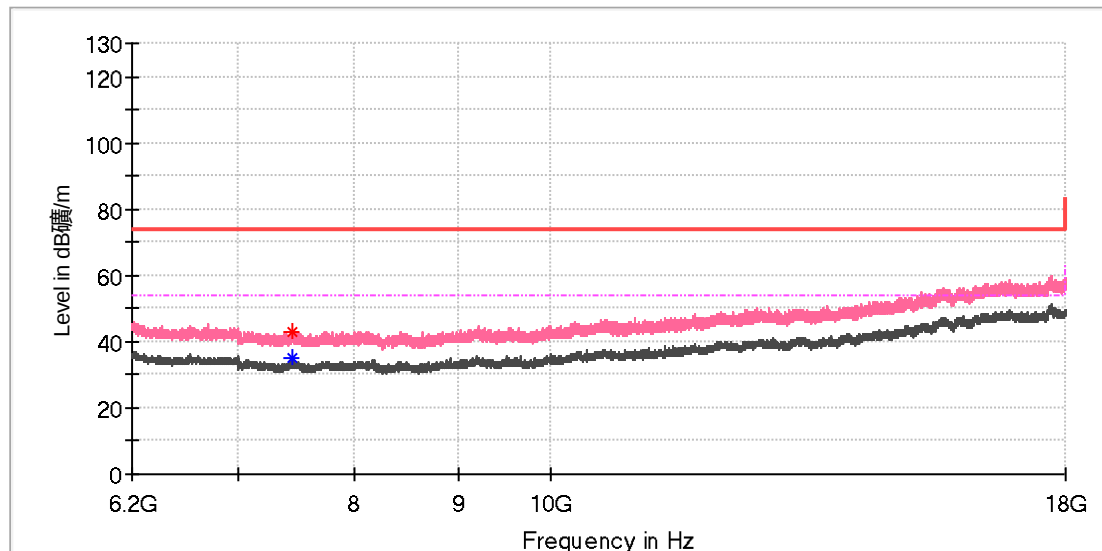
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7440.966667	---	33.61	54.00	20.39	100.0	H	274.0	8.4
7456.700000	42.82	---	74.00	31.18	100.0	H	33.0	8.5

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Thread room sensor
Model:	QPA2892/WI
Test Mode:	Thread_High channel
Order No/Sample No:	168379176/A003277000-007
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.000000	42.79	---	74.00	31.21	100.0	V	260.0	8.4
7440.966667	---	34.86	54.00	19.14	100.0	V	85.0	8.4

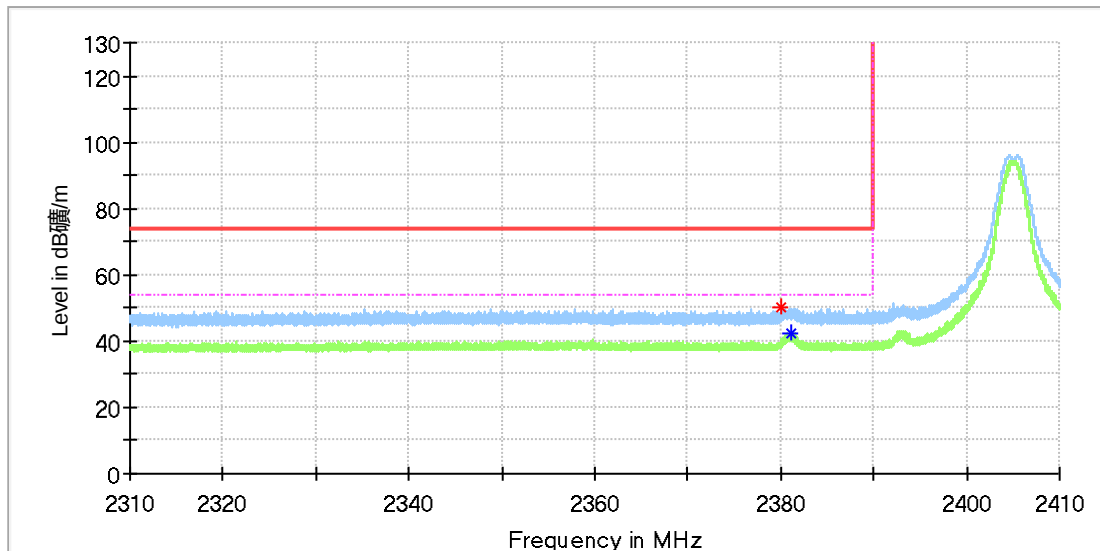
Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

Appendix B.6: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Thread room sensor
Model:	QPA2892/WI
Test Mode:	Thread_Low channel
Order No/Sample No:	168379176/A003277000-007
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

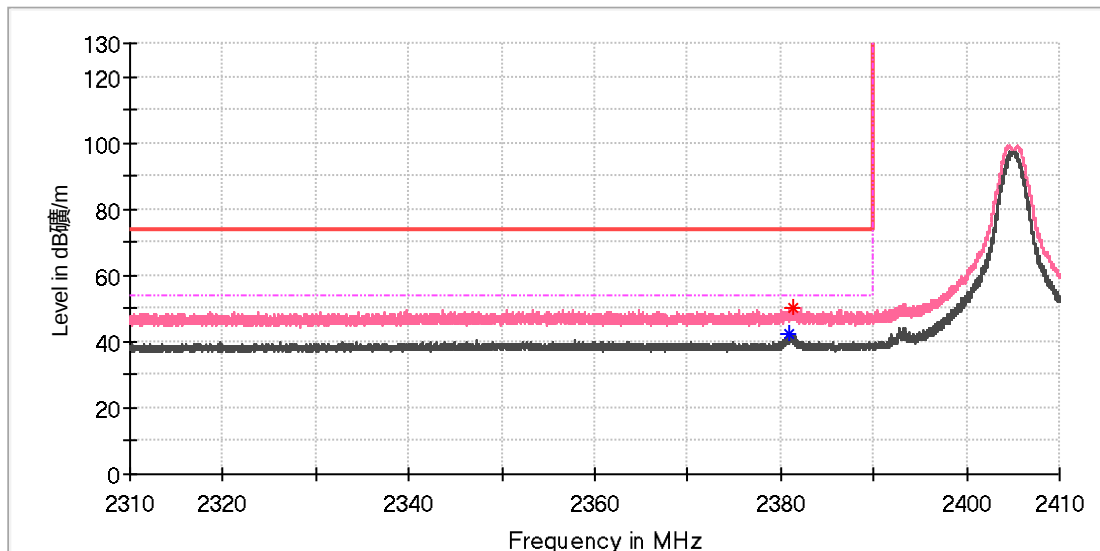
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2380.140000	50.35	---	74.00	23.65	100.0	H	125.0	7.0
2381.020000	---	42.18	54.00	11.82	100.0	H	114.0	7.0

Final Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Thread room sensor
Model:	QPA2892/WI
Test Mode:	Thread_Low channel
Order No/Sample No:	168379176/A003277000-007
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

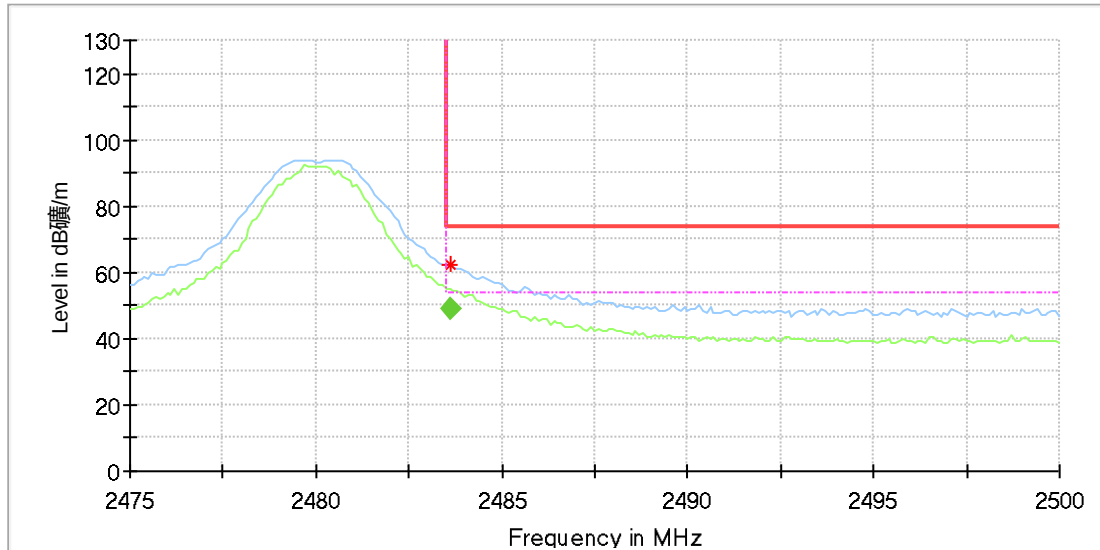
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2380.975000	---	42.37	54.00	11.63	100.0	V	302.0	7.0
2381.370000	49.89	---	74.00	24.11	100.0	V	313.0	7.0

Final_Result

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
---	---	---	---	---		---	---

EUT Information

EUT Name:	Thread room sensor
Model:	QPA2892/WI
Test Mode:	Thread_High channel
Order No/Sample No:	168379176/A003277000-007
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

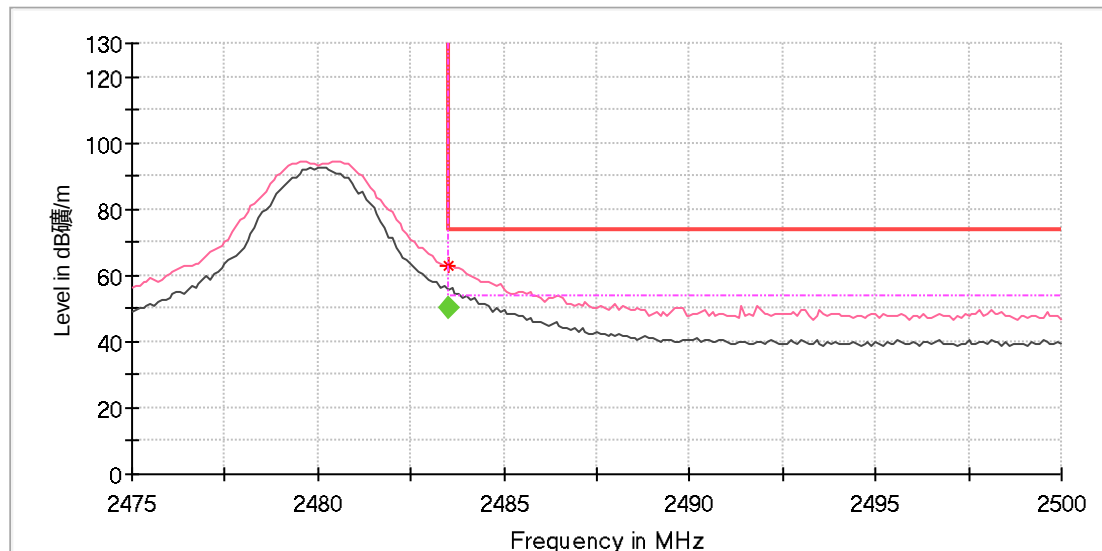
Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.600000	62.05	---	74.00	11.95	100.0	H	18.0	7.4

Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.615300	48.79	54.00	5.21	105.0	H	169.0	7.4

EUT Information

EUT Name:	Thread room sensor
Model:	QPA2892/WI
Test Mode:	Thread_High channel
Order No/Sample No:	168379176/A003277000-007
Test Voltage:	Battery
Remark:	Temp 22 Humi:52%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.500000	63.04	---	74.00	10.96	100.0	V	123.0	7.4

Final_Result

Frequency (MHz)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2483.500050	50.31	54.00	3.69	100.0	V	108.0	7.4

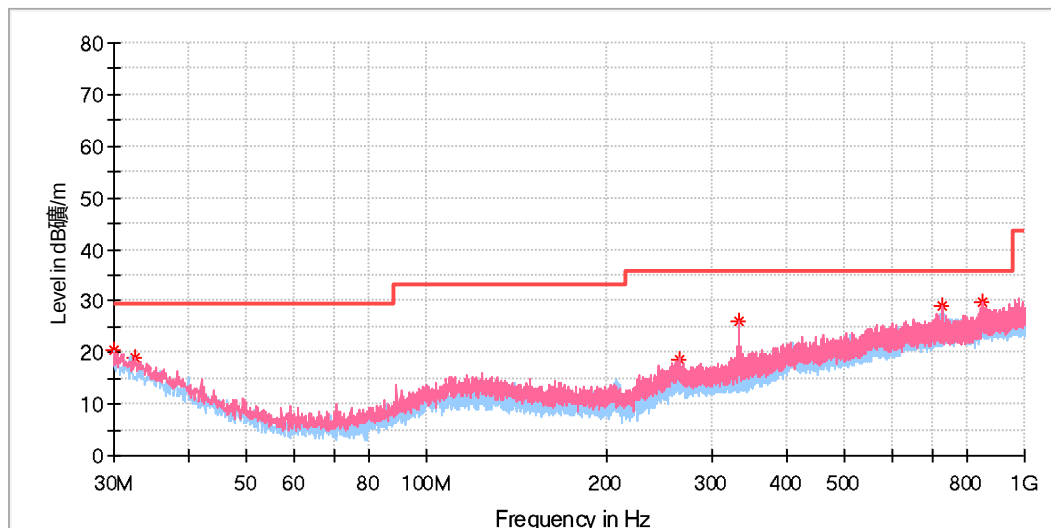
Appendix B.7: Test Results of Radiated Emissions

Note: The following illustration shows the limit that meet the FCC requirements, and these measured value also comply with IC requirements.

30 MHz to 1GHz

EUT Information

EUT Name:	Thread room sensor
Order Number:	168379176(P00667629))
Model:	QPA2892/WI
Test Mode:	Normal working with Thread Linked
Test Voltage:	DC3V
Standard:	FCC 15B
Test By:/Review By:	Steve Lan/Gary Chen
Tem./Hum./Pressure:	24.1°C/50.6%/101kPa
Remark:	10m Chamber



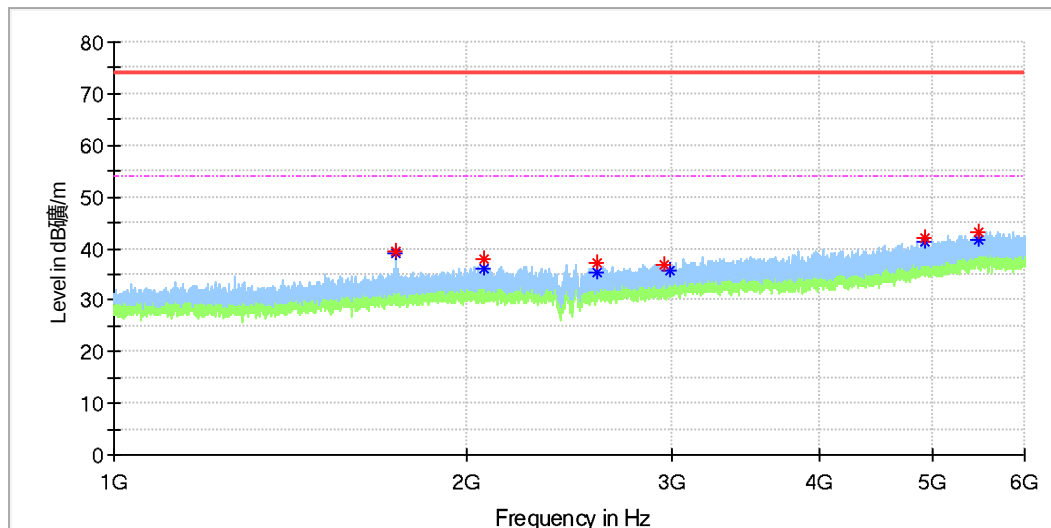
Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
30.053889	20.44	29.50	9.06	200.0	H	0.0	-9.6
32.532778	19.10	29.50	10.40	100.0	V	42.0	-5.9
264.901667	18.78	35.60	16.82	200.0	V	0.0	-7.4
333.178889	26.15	35.60	9.45	100.0	V	338.0	-7.3
727.861111	29.18	35.60	6.42	100.0	V	186.0	-0.2
851.590000	29.61	35.60	5.99	100.0	V	84.0	1.3

1GHz to 6GHz

EUT Information

EUT Name:	Thread room sensor
Order Number:	168379176(P00667629))
Model:	QPA2892/WI
Test Mode:	Normal working with Thread Linked
Test Voltage:	DC3V
Standard:	FCC 15B
Test By:/Review By:	Steve Lan/Gary Chen
Tem./Hum./Pressure:	24.1°C/50.6%/101kPa
Remark:	3m Chamber

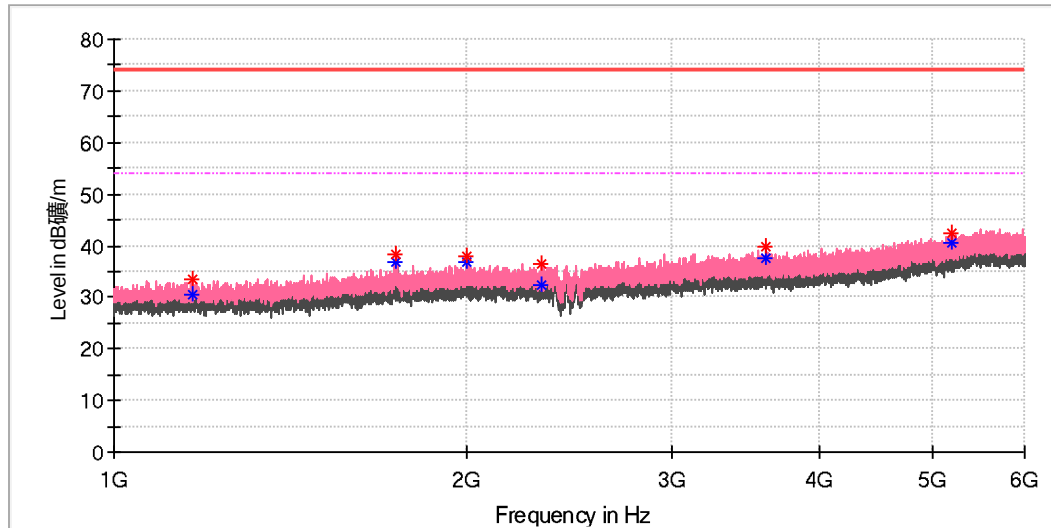


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1743.125000	39.51	---	74.00	34.49	100.0	H	57.0	-4.2
1743.125000	---	39.01	54.00	14.99	100.0	H	57.0	-4.2
2068.750000	---	36.02	54.00	17.98	100.0	H	167.0	-3.1
2068.750000	37.91	---	74.00	36.09	100.0	H	167.0	-3.1
2583.541667	37.15	---	74.00	36.85	100.0	H	67.0	-2.1
2583.541667	---	35.27	54.00	18.73	100.0	H	67.0	-2.1
2947.708333	37.00	---	74.00	37.00	100.0	H	171.0	-0.1
2984.791667	---	35.73	54.00	18.27	100.0	H	344.0	0.0
4925.625000	42.23	---	74.00	31.77	100.0	H	51.0	7.3
4925.625000	---	41.14	54.00	12.86	100.0	H	51.0	7.3
5474.166667	---	41.51	54.00	12.49	100.0	H	156.0	9.8
5474.166667	43.15	---	74.00	30.85	100.0	H	156.0	9.8

EUT Information

EUT Name:	Thread room sensor
Order Number:	168379176(P00667629))
Model:	QPA2892/WI
Test Mode:	Normal working with Thread Linked
Test Voltage:	DC3V
Standard:	FCC 15B
Test By:/Review By:	Steve Lan/Gary Chen
Tem./Hum./Pressure:	24.1°C/50.6%/101kPa
Remark:	3m Chamber



Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1166.666667	33.64	---	74.00	40.36	200.0	V	109.0	-6.5
1166.666667	---	30.48	54.00	23.52	200.0	V	109.0	-6.5
1741.666667	38.30	---	74.00	35.70	100.0	V	0.0	-4.2
1741.666667	---	36.87	54.00	17.13	100.0	V	0.0	-4.2
1999.791667	37.96	---	74.00	36.04	200.0	V	356.0	-3.2
1999.791667	---	37.02	54.00	16.98	200.0	V	356.0	-3.2
2319.791667	36.64	---	74.00	37.36	200.0	V	257.0	-2.8
2319.791667	---	32.38	54.00	21.62	100.0	V	115.0	-2.8
3609.166667	39.77	---	74.00	34.23	200.0	V	183.0	2.9
3609.166667	---	37.57	54.00	16.43	200.0	V	183.0	2.9
5196.666667	42.52	---	74.00	31.48	200.0	V	103.0	8.4
5196.666667	---	40.59	54.00	13.41	200.0	V	103.0	8.4