

<b>Prüfbericht-Nr.:</b> Test report no.:	<b>CN225KT4 001</b>	<b>Auftrags-Nr.:</b> Order no.:	<b>244355890</b>	Seite 1 von 33 Page 1 of 33
<b>Kunden-Referenz-Nr.:</b> Client reference no.:	<b>N/A</b>	<b>Auftragsdatum:</b> Order date:	<b>2021-08-24</b>	
<b>Auftraggeber:</b> Client:	<b>Testo SE &amp; Co. KGaA</b> Celsiusstrasse 2, 79822 Titisee-Neustadt, Germany			
<b>Prüfgegenstand:</b> Test item:	testo 560i			
<b>Bezeichnung / Typ-Nr.:</b> Identification / Type no.:	0564 1560 FCC ID: WAF-05641560 IC: 6127B-05641560			
<b>Auftrags-Inhalt:</b> Order content:	Complete test			
<b>Prüfgrundlage:</b> Test specification:	FCC CFR47 Part 15, Subpart C Section 15.247 RSS-Gen Issue 5, Amendment 2, February 2021 RSS-247 Issue 2, February 2017 ANSI C63.10: 2013			
<b>Wareneingangsdatum:</b> Date of sample receipt:	2022-02-16			
<b>Prüfmuster-Nr.:</b> Test sample no.:	A003213038-001			
<b>Prüfzeitraum:</b> Testing period:	Refer to test report			
<b>Ort der Prüfung:</b> Place of testing:	TÜV Rheinland (Shanghai) Co., Ltd.			
<b>Prüflaboratorium:</b> Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
<b>Prüfergebnis*:</b> Test result*:	Pass			
<b>geprüft von:</b> tested by:	<input checked="" type="checkbox"/> <u>Weidong Wang</u>	<b>genehmigt von:</b> authorized by:	<input checked="" type="checkbox"/> <u>Hongfei Wu</u>	
<b>Datum:</b> Date:	2022-05-16 <small>Signed by: Weidong Wang</small>	<b>Ausstellungsdatum:</b> Issue date:	2022-05-16 <small>Signed by: Hongfei Wu</small>	
<b>Stellung / Position:</b>	PE	<b>Stellung / Position:</b>	Reviewer	
<b>Sonstiges /</b> Other:	HVIN: 0564 1560			
<b>Zustand des Prüfgegenstandes bei Anlieferung:</b> Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
<small>* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet</small>				
<small>* Legend: P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested</small>				
<b>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.</b> <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 6dB & 99% BANDWIDTH***RESULT: Pass***5.1.3 PEAK OUTPUT POWER***RESULT: Pass***5.1.4 POWER SPECTRAL DENSITY***RESULT: Pass***5.1.5 CONDUCTED BAND EDGE AND OUT-OF BAND EMISSIONS***RESULT: Pass***5.2.1 CONDUCTED EMISSION***RESULT: N/A***5.3.1 RADIATED BAND-EDGE***RESULT: Pass***5.3.2 RADIATED SPURIOUS EMISSION***RESULT: Pass*

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## 1. General Remarks

### 1.1 Complementary Materials

Null.

## 2. Test Sites

### 2.1 Test Facilities

TÜV Rheinland (Shanghai) Co., Ltd.  
Shanghai TUV Rheinland Building No. 177, 178 Lane 777, West Guangzhong Rd, Jing'an District, Shanghai, China  
The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 958801.

The Innovation, Science and Economic Development Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 2932F.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
3m modified semi-anechoic chamber	Frankonia	SAC3	G1811378	2022-06-27
Bilog antenna	Teseq	CBL 6112D	G1811425	2023-03-10
EMI test receiver	Rohde & Schwarz	ESCI	G1811402	2022-09-01
Spectrum analyser	Rohde & Schwarz	FSV40	G1822702	2023-11-04
Preamplifier	Taiwan EMCI	EMC184045SE	G1825372	2023-05-14
Log periodic antenna	Rohde & Schwarz	HL050	G1811417	2023-03-10
Broadband Horn Antenna	Schwarzbeck	BBHA 9170	9170-305	2023-07-08
Preamplifier	Taiwan EMCI	EMC051845SE	G1825371	2023-05-14
Spectrum Analyzer	Keysight	N9020A	MY54500180	2022-09-08

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, 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

**Table 2: Measurement Uncertainty**

Measurement Type	Frequency	Uncertainty
Antenna Port Conducted Emission	< 1GHz	±0.39dB
	> 1GHz	±0.68dB
Radiated Emission	9kHz – 30MHz	±2.93dB
	30MHz - 1GHz	±5.34dB
	> 1GHz	±5.40dB

### 3. General Product Information

#### 3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a Scale which supports Bluetooth LE.  
 For details refer to the User Manual and Circuit Diagram.

#### 3.2 Ratings and System Details

**Table 3: Technical Specification of EUT**

General Description of EUT	
Product Name:	testo 560i
Model No.:	0564 1560
Rated Voltage:	DC 6V(battery)
Hardware Version:	FY-GTS100-V1.0
Firmware Version:	V0.7.6
Serial number:	49802416
Technical Specification of BLE	
Frequency Range:	2402 to 2480MHz
Modulation Type:	GFSK
Data Rate:	1Mbps(GFSK)
Antenna Type:	PIFA Antenna
Antenna Gain:	3.09dBi (Provided by the Client)

#### 3.3 Independent Operation Modes

**Table 4: Independent Operation Modes**

Test Mode	Channel	Frequency	Data Rate
TM1	00	2402	1 MB/s
TM2	19	2440	1 MB/s
TM3	39	2480	1 MB/s

### **3.4 Noise Generating and Noise Suppressing Parts**

Refer to the Circuit Diagram.

### **3.5 Submitted Documents**

- Bill of Material
- PCB Layout
- Photo Document
- Circuit Diagram
- Instruction Manual
- Rating Label

## 4. Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power 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 testing were performed according to the procedures in ANSI C63.10: 2013.

Test Software used: ATK XCOM V2.0

**Table 5: Power parameter value**

Operating Mode	Power Parameter Value
BLE	Neg16dBm

### 4.3 Special Accessories and Auxiliary Equipment

**Table 6: Auxiliary Equipment**

Product Name	Model Name	Manufactory
Laptop	T450	Thinkpad

### 4.4 Countermeasures to achieve EMC Compliance

Null.



## 5. Test Results

### 5.1 Conducted Testing at Antenna Port

#### 5.1.1 Antenna Requirement

**RESULT:** **Pass**

According to the manufacturer declared, the EUT has one PIFA antenna, the directional gain of antenna is 3.09 dBi and the antenna is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

**Table 7: Antenna Requirement**

FCC 15.203 – Antenna Requirement 1	
Requirement:	No antenna other than that furnished by the responsible party shall be used with the device
Results:	Antenna type: PIFA Aantenna
Verdict:	Pass

FCC 15.204 – Antenna Requirement 2	
Requirement:	An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator.
Results:	Only one PIFA antenna can be used
Verdict:	Pass

RSS-Gen 6.4 – External Control	
Requirement:	The device shall not have any external controls accessible to the user that enable it to be adjusted, selected or programmed to operate in violation of the regulatory requirements, including RSS-Gen and the applicable RSSs
Results:	The device does not have any transmitter external controls accessible to the user that can be adjusted and operated in violation of the limits of this standard.
Verdict:	PASS

**RSS-Gen 6.8 – Antenna Requirement**

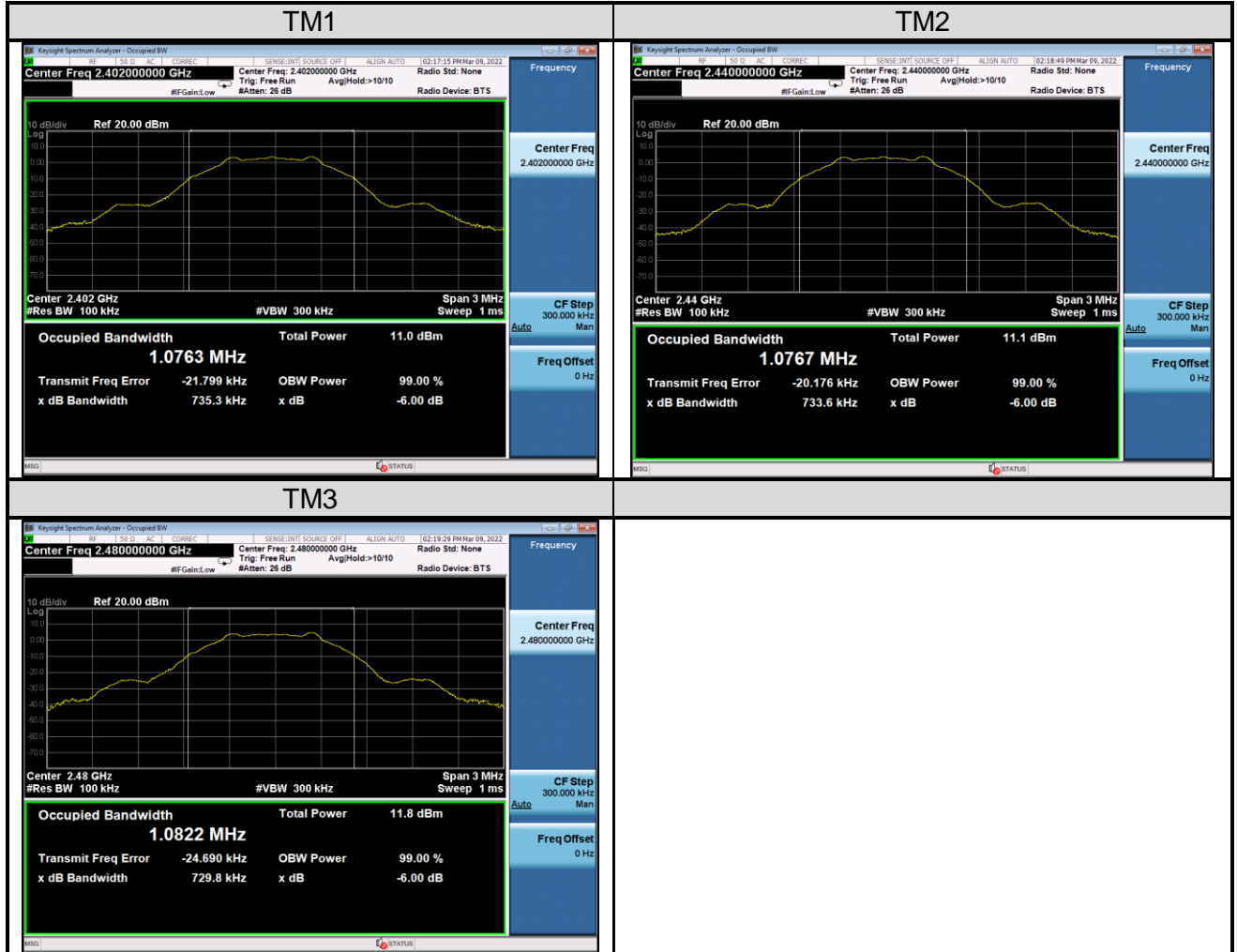
Requirement: When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

Results:

a) Antenna Type:	PIFA Antenna
b) Manufacture:	Wieson Technologies Co., Ltd.
c) Model No.:	ARY196-0361-008-00
d) Gain with reference to an isotropic radiator:	3.09dBi

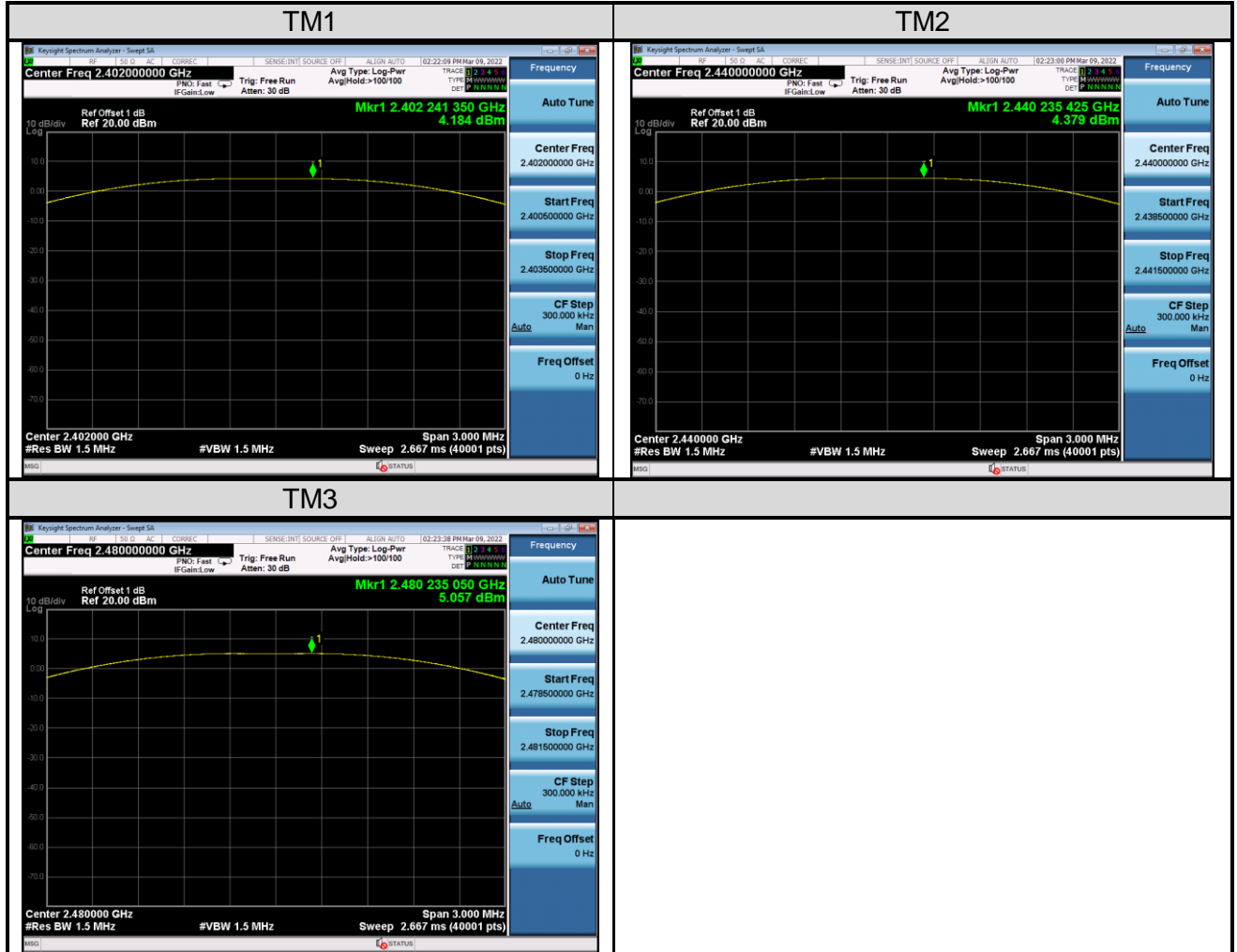
Verdict: PASS



**Figure 1: 6dB Bandwidth**


**Figure 2: 99% Bandwidth**




**Figure 3: Peak Output Power, TM1 to TM3**


### 5.1.4 Power Spectral Density

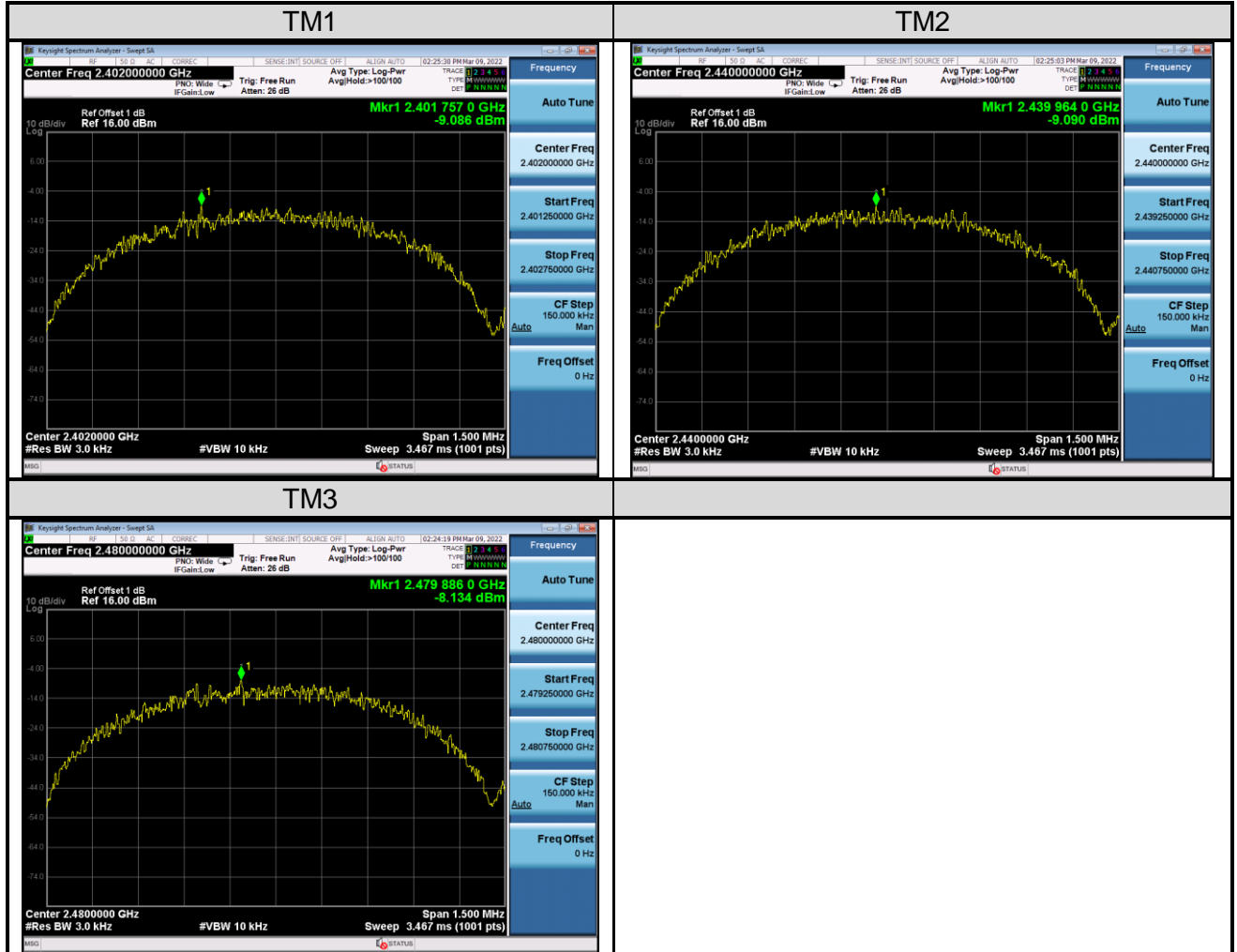
**RESULT:****Pass**

Date of testing : 2022-03-09  
Ambient temperature : 20.2°C  
Relative humidity : 54.1%  
Atmospheric pressure : 101kPa  
Test requirement : FCC Part 15.247(e)  
RSS-247 Issue 2, February 2017, Clause 5.2(b)  
Test procedure : ANSI C63.10: 2013  
Test voltage : DC 6V  
Test modes applied : TM1 to TM3

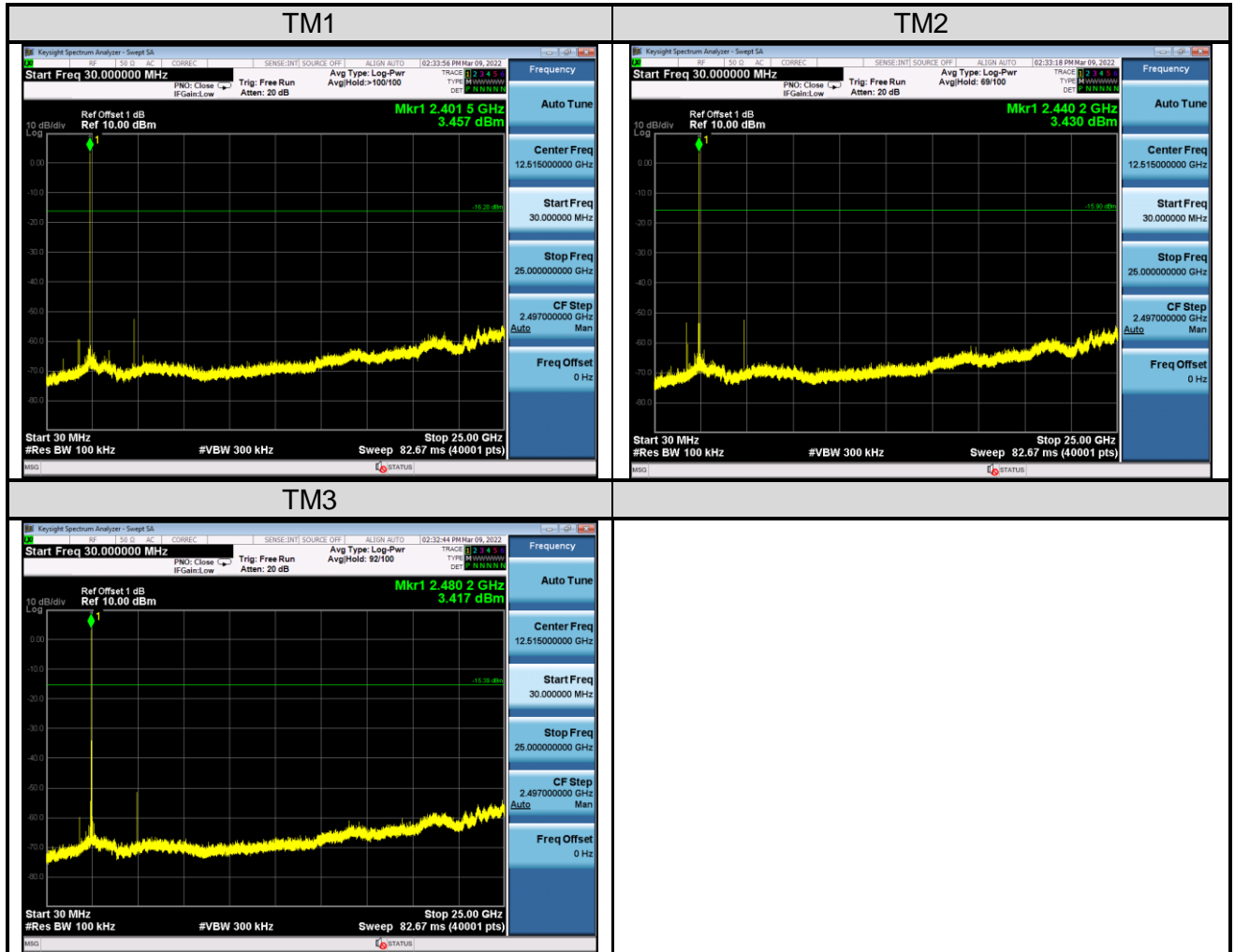
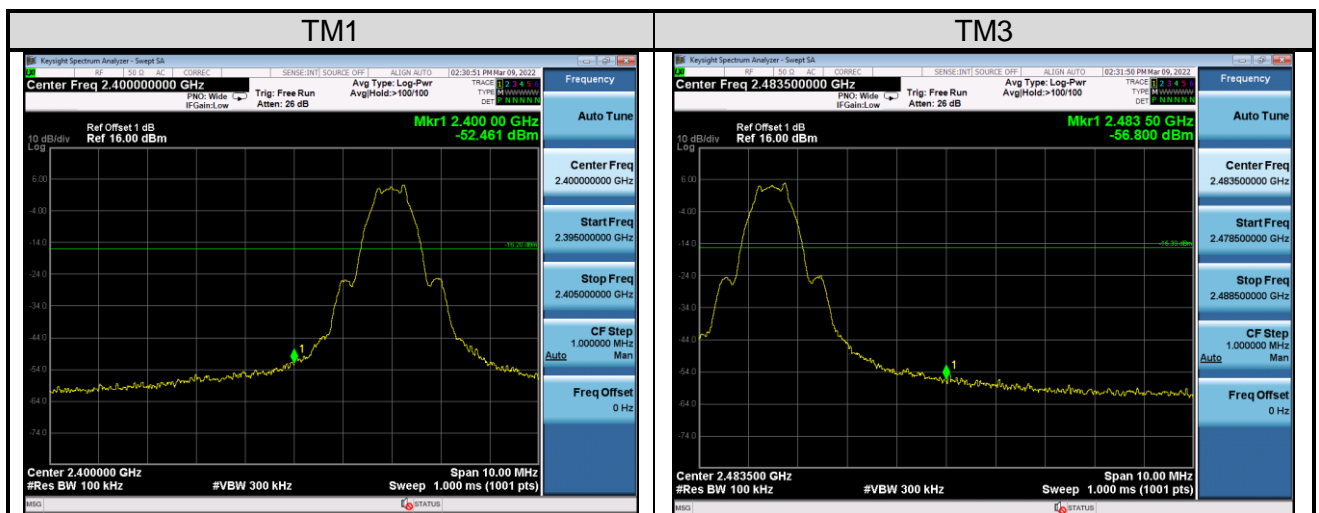
**Table 10: Power Spectral Density**

Mode	CH.	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]
TM1	00	2402	-9.086	8
TM2	19	2440	-9.090	8
TM3	39	2480	-8.134	8



**Figure 4: Power Spectral Density**




**Figure 6: Conducted Spurious Emission**

**Figure 7: Conducted Band Edge**


## 5.2 Emission in the Frequency Range up to 30MHz

### 5.2.1 Conducted Emission

**RESULT:** **N/A**

Test requirement : FCC Part 15.207 (a)  
RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.8  
Test procedure : ANSI C63.10: 2013

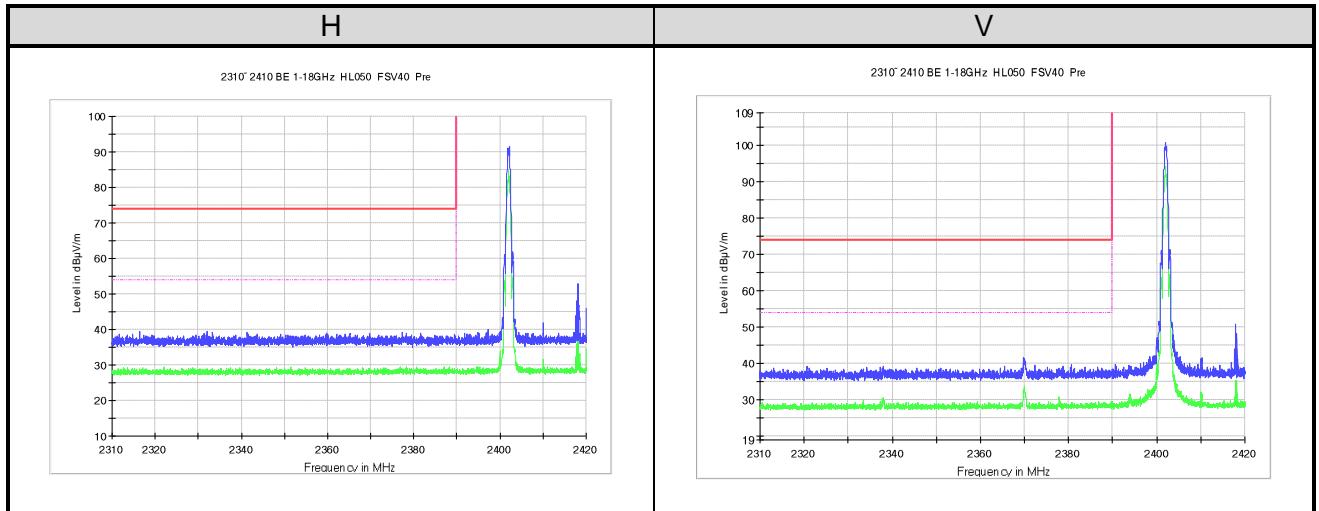
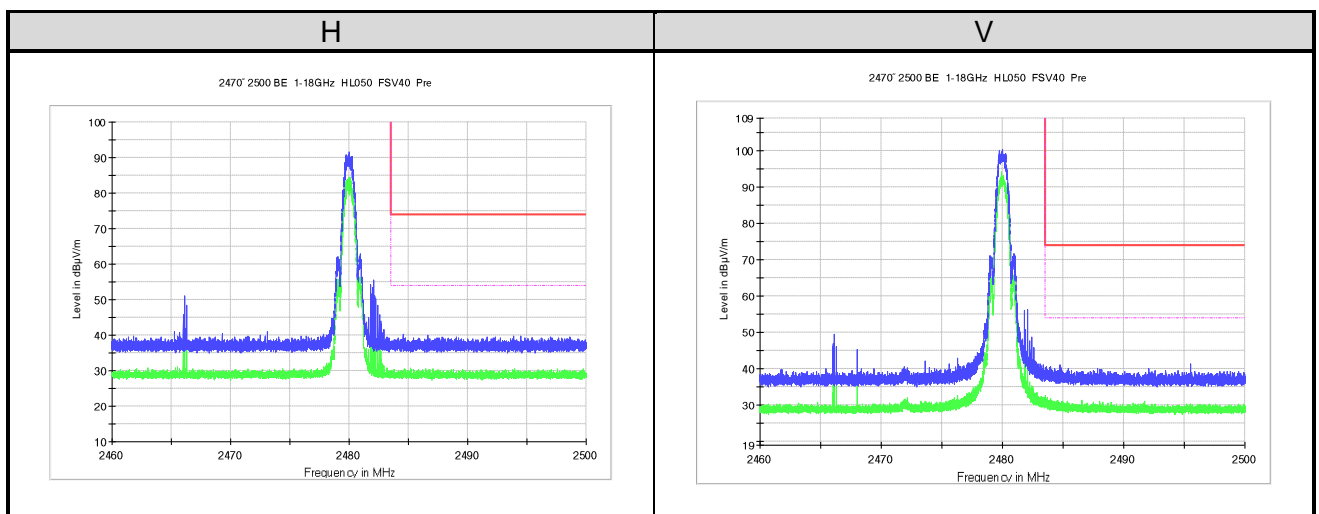
Note :  
This product is power by DC 6V(battery).  
So, this test is not applicable

## 5.3 Emission in the Frequency Range above 30MHz

### 5.3.1 Radiated Band-Edge

**RESULT:****Pass**

Date of testing	:	2022-03-09
Ambient temperature	:	24.5°C
Relative humidity	:	43.1%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) FCC Part 15.205(a) FCC Part 15.209(a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9 RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.10 RSS-247 Issue 2, February 2017, Clause 5.5
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	DC 6V
Test modes applied	:	TM1, TM3

**Figure 8: Radiated Band-Edge, TM1**

**Figure 9: Radiated Band-Edge, TM3**


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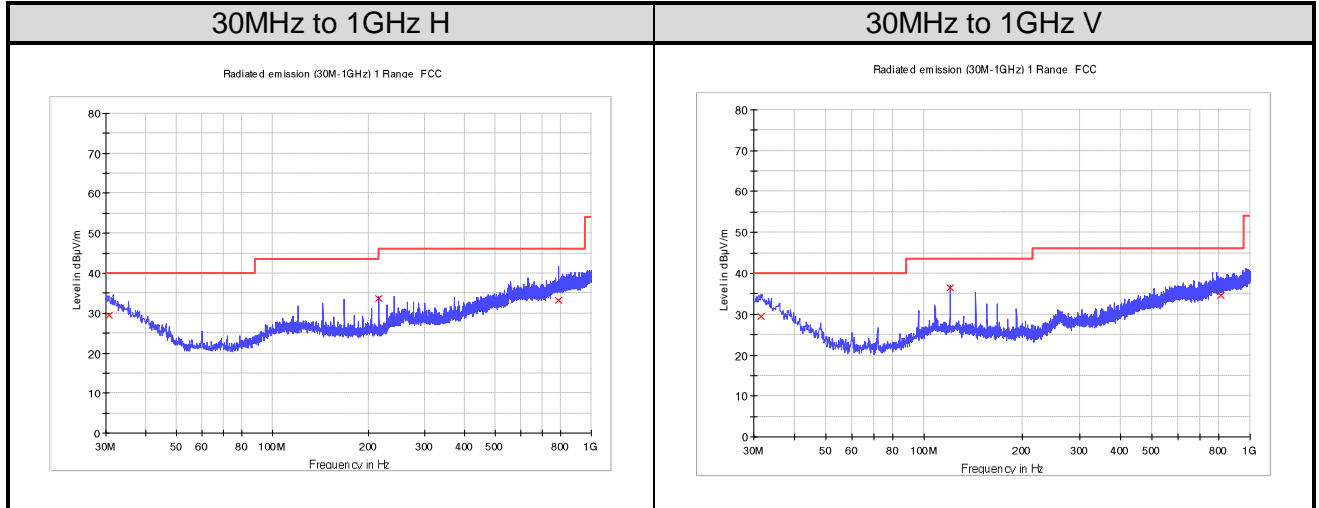
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### 5.3.2 Radiated Spurious Emission

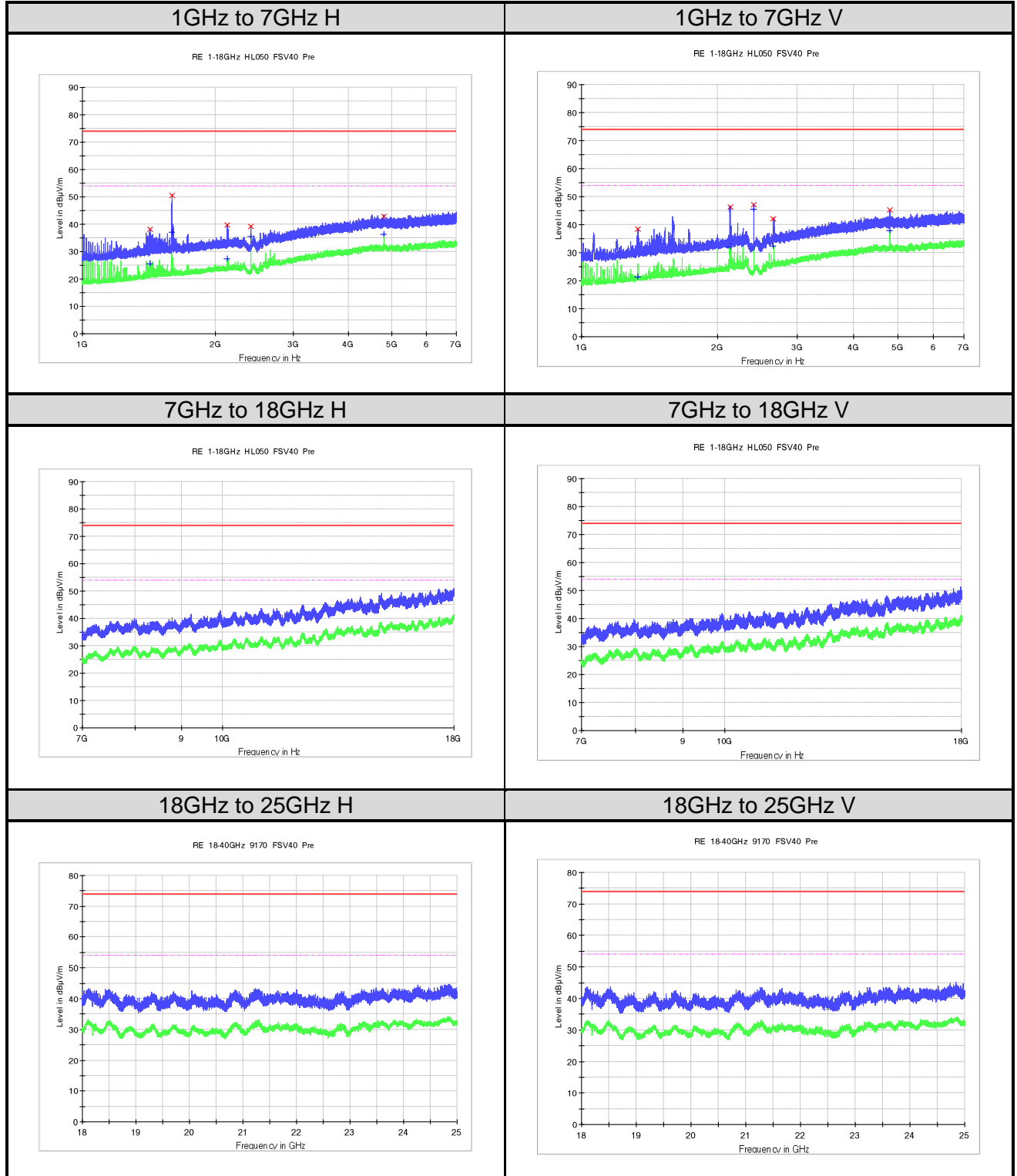
**RESULT:****Pass**

Date of testing	:	2022-03-08 ~ 2022-03-09
Ambient temperature	:	24.1°C ~24.5°C
Relative humidity	:	42.7 % ~43.1 %
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) FCC Part 15.209(a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9 RSS-247 Issue 2, February 2017, Clause 5.5
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	DC 6V
Test modes applied	:	TM1 to TM3

**Figure 10: Radiated Spurious Emission, TM1, 30MHz to 1GHz**

**Limit and Margin**

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.606250	29.6	H	25.1	10.4	40.0
215.997500	33.8	H	15.7	9.7	43.5
792.177500	33.3	H	27.6	12.7	46.0
31.576250	29.5	V	24.7	10.5	40.0
119.967500	36.5	V	18.4	7.0	43.5
816.063750	34.5	V	27.5	11.5	46.0



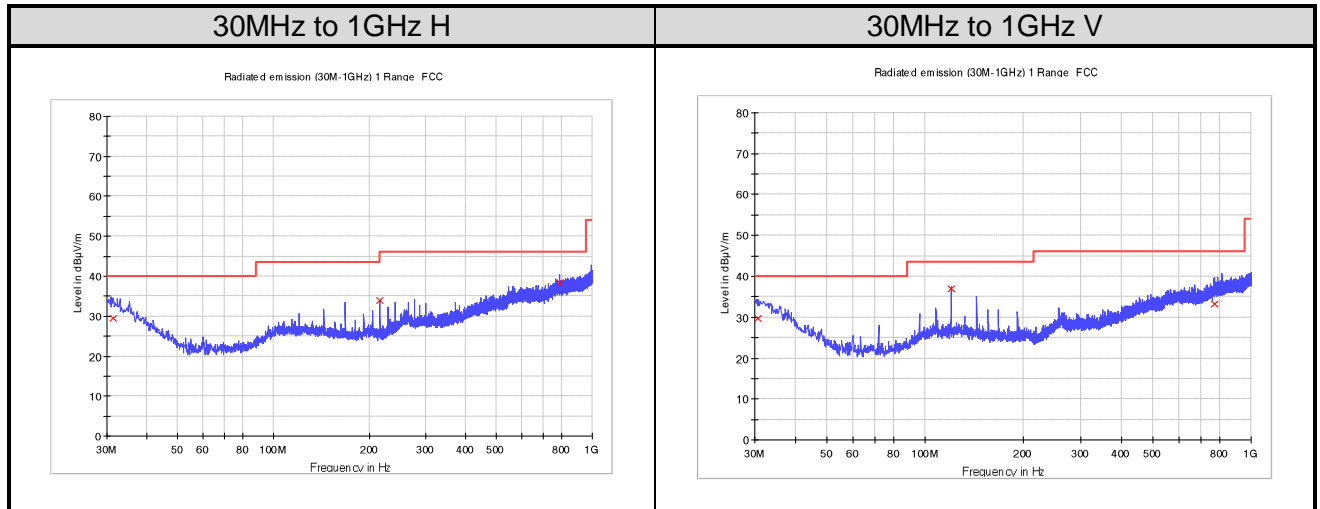
**Figure 11: Radiated Spurious Emission, TM1, 1GHz to 25GHz**


**Limit and Margin**
**PK**

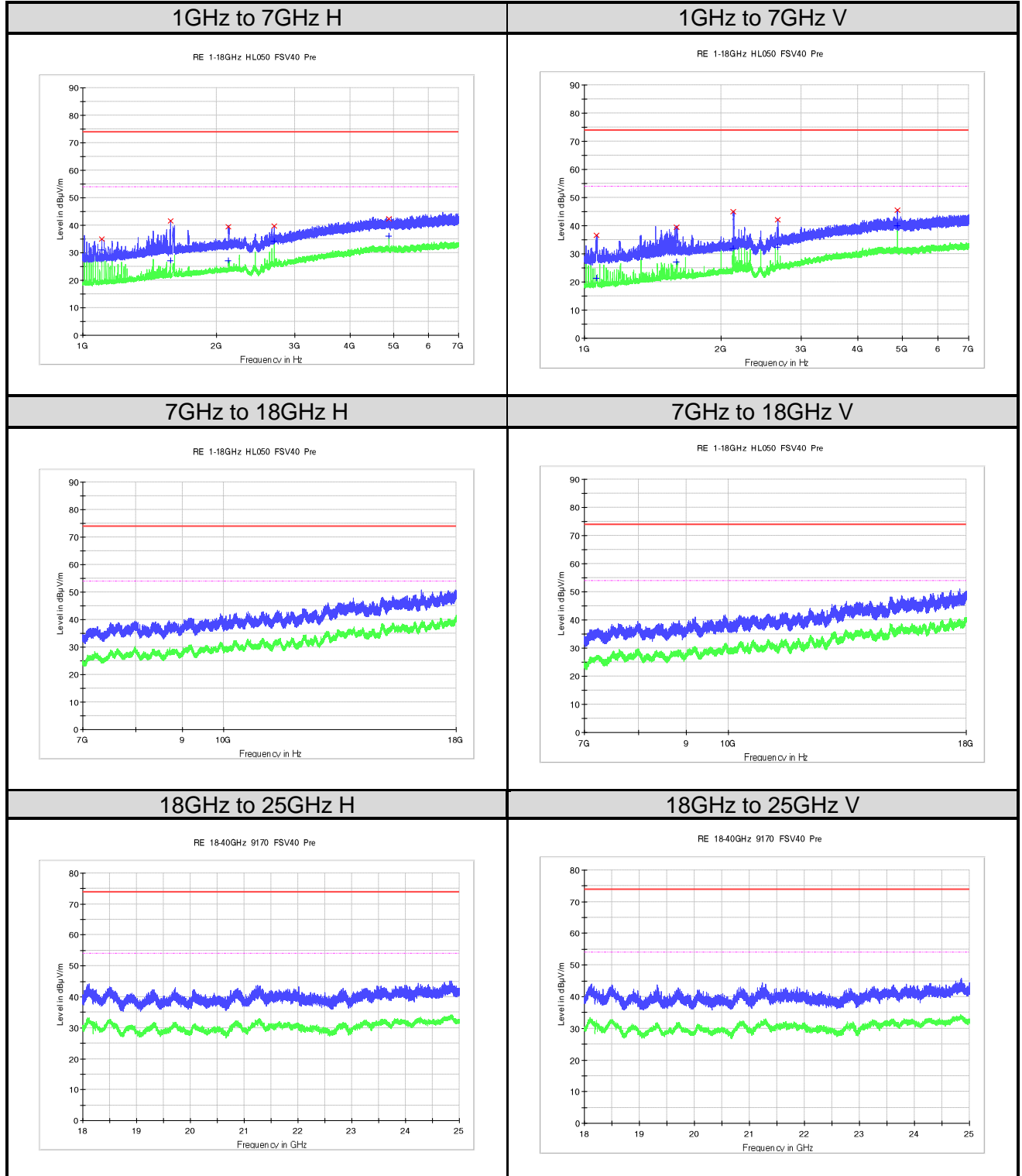
Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dB $\mu$ V/m)
1419.625000	38.2	H	-19.6	35.8	74.0
1592.312500	50.5	H	-18.4	23.5	74.0
2126.875000	39.8	H	-15.8	34.2	74.0
2401.937500	39.2	H	-14.5	34.8	74.0
4804.000000	42.9	H	-6.5	31.1	74.0
1330.000000	38.5	V	-20.2	35.5	74.0
2129.687500	46.4	V	-15.7	27.6	74.0
2402.125000	47.2	V	-14.4	26.8	74.0
2655.437500	42.1	V	-13.3	31.9	74.0
4804.375000	45.1	V	-6.5	28.9	74.0

**AV**

Frequency (MHz)	Average (dB $\mu$ V/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dB $\mu$ V/m)
1419.625000	25.4	H	-19.6	28.6	54.0
1592.312500	37.2	H	-18.4	16.8	54.0
2126.875000	27.3	H	-15.8	26.7	54.0
2401.937500	35.5	H	-14.5	18.5	54.0
4804.000000	36.3	H	-6.5	17.7	54.0
1330.000000	21.3	V	-20.2	32.7	54.0
2129.687500	32.0	V	-15.7	22.0	54.0
2402.125000	45.5	V	-14.4	8.5	54.0
2655.437500	32.4	V	-13.3	21.6	54.0
4804.375000	37.8	V	-6.5	16.2	54.0

**Figure 12: Radiated Spurious Emission, TM2, 30MHz to 1GHz**

**Limit and Margin**

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.333750	29.4	H	24.8	10.6	40.0
215.997500	33.9	H	15.7	9.6	43.5
792.056250	38.3	H	27.6	7.7	46.0
30.727500	29.7	V	25.0	10.3	40.0
119.967500	37.0	V	18.4	6.5	43.5
769.625000	33.2	V	27.5	12.8	46.0

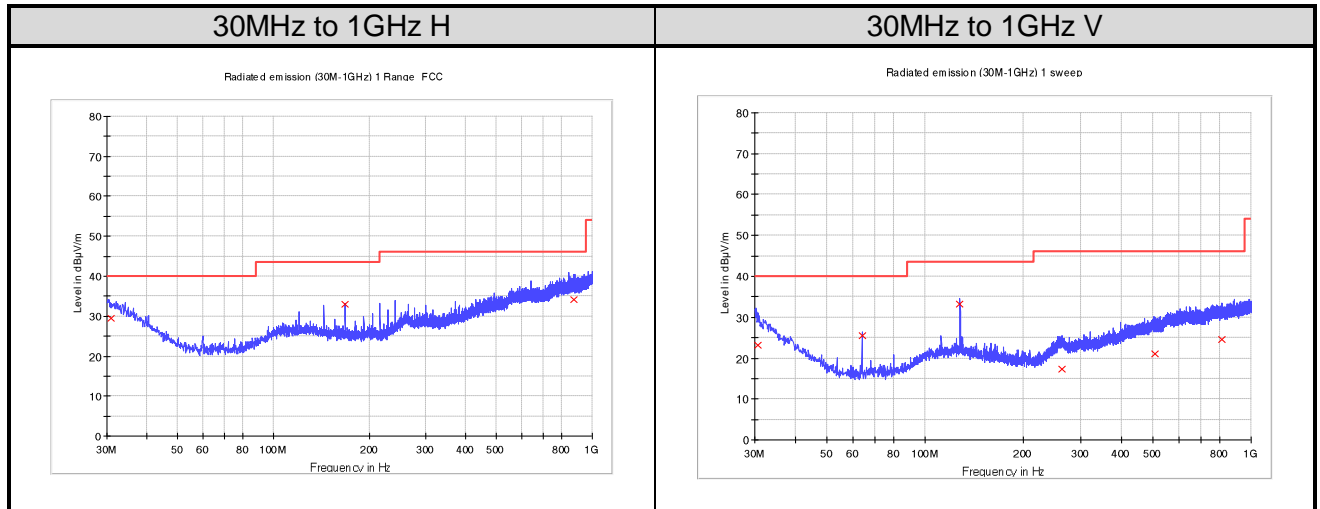
**Figure 13: Radiated Spurious Emission, TM2, 1GHz to 25GHz**


**Limit and Margin**
**PK**

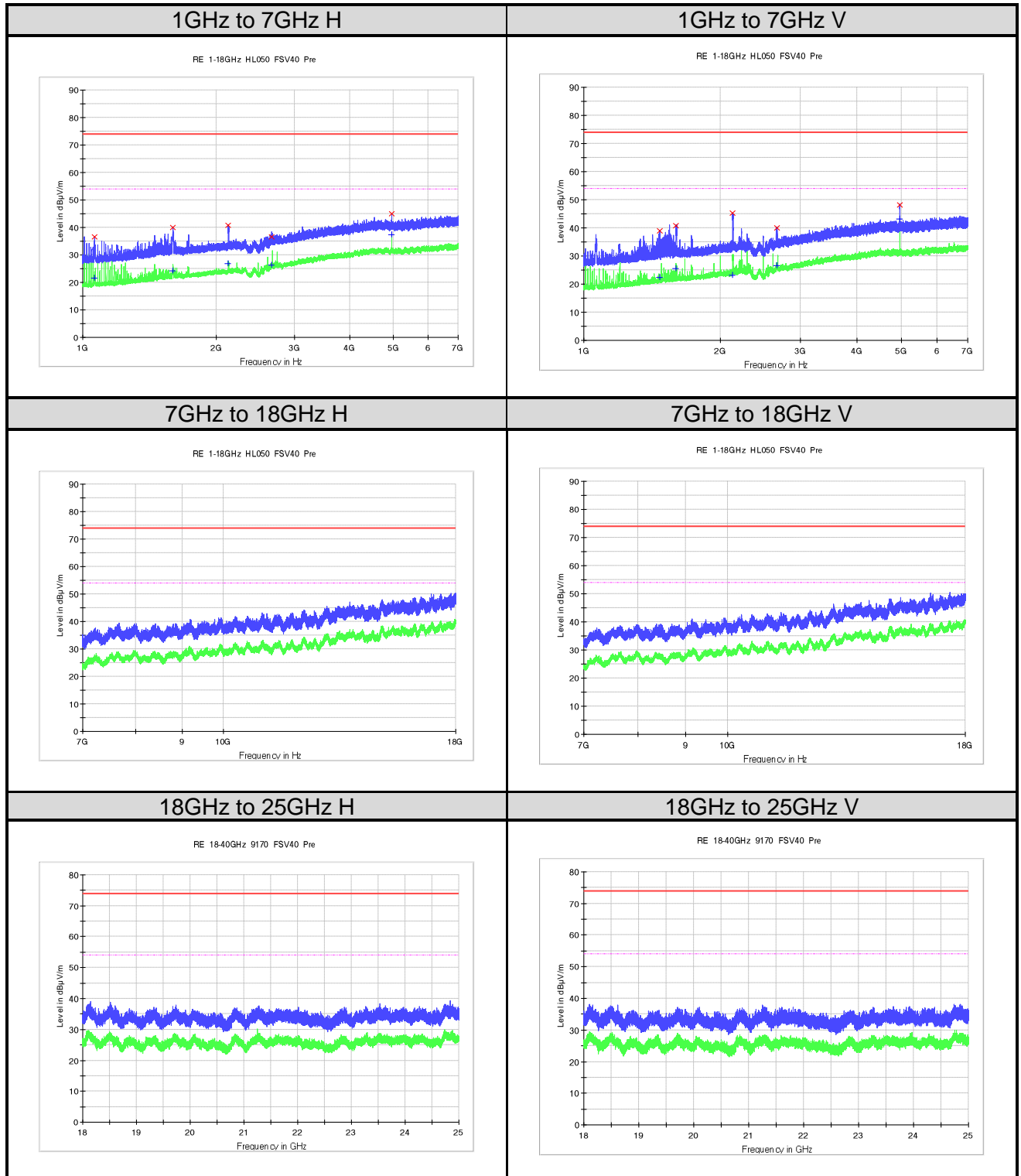
Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1103.875000	35.0	H	-21.8	39.0	74.0
1577.500000	41.6	H	-18.4	32.4	74.0
2123.312500	39.5	H	-15.8	34.5	74.0
2695.937500	39.7	H	-13.1	34.3	74.0
4879.937500	42.5	H	-6.5	31.5	74.0
1063.562500	36.5	V	-22.1	37.5	74.0
1598.500000	39.4	V	-18.3	34.6	74.0
2123.312500	45.0	V	-15.8	29.0	74.0
2657.500000	42.0	V	-13.3	32.0	74.0
4879.562500	45.5	V	-6.5	28.5	74.0

**AV**

Frequency (MHz)	Average (dBμV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
1103.875000	31.1	H	-21.8	22.9	54.0
1577.500000	27.1	H	-18.4	26.9	54.0
2123.312500	27.0	H	-15.8	27.0	54.0
2695.937500	34.2	H	-13.1	19.8	54.0
4879.937500	36.1	H	-6.5	17.9	54.0
1063.562500	21.3	V	-22.1	32.7	54.0
1598.500000	27.2	V	-18.3	26.8	54.0
2123.312500	31.8	V	-15.8	22.2	54.0
2657.500000	32.3	V	-13.3	21.7	54.0
4879.562500	40.1	V	-6.5	13.9	54.0

**Figure 14: Radiated Spurious Emission, TM3, 30MHz to 1GHz**

**Limit and Margin**

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.970000	29.4	H	24.9	10.6	40.0
167.982500	33.0	H	16.4	10.5	43.5
874.748750	34.1	H	28.0	11.9	46.0
30.727500	23.1	V	25.0	16.9	40.0
63.950000	25.6	V	12.8	14.4	40.0
127.970000	33.2	V	18.7	10.3	43.5
262.557500	17.3	V	20.7	28.7	46.0
505.542500	21.1	V	24.9	24.9	46.0
811.941250	24.6	V	27.5	21.4	46.0

**Figure 15: Radiated Spurious Emission, TM3, 1GHz to 25GHz**


**Limit and Margin**
**PK**

Frequency (MHz)	MaxPeak (dB $\mu$ V/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dB $\mu$ V/m)
1064.125000	36.5	H	-22.1	37.5	74.0
1598.500000	40.0	H	-18.3	34.0	74.0
2124.062500	40.7	H	-15.8	33.3	74.0
2658.062500	36.5	H	-13.3	37.5	74.0
4960.562500	45.0	H	-6.6	29.0	74.0
1468.750000	38.9	V	-19.1	35.1	74.0
1598.312500	40.7	V	-18.3	33.3	74.0
2127.250000	45.3	V	-15.8	28.7	74.0
2661.625000	40.1	V	-13.3	33.9	74.0
4959.437500	48.1	V	-6.6	25.9	74.0

**AV**

Frequency (MHz)	Average (dB $\mu$ V/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dB $\mu$ V/m)
1064.125000	21.6	H	-22.1	32.4	54.0
1598.500000	24.2	H	-18.3	29.8	54.0
2124.062500	26.9	H	-15.8	27.1	54.0
2658.062500	26.3	H	-13.3	27.7	54.0
4960.562500	37.4	H	-6.6	16.6	54.0
1468.750000	22.3	V	-19.1	31.7	54.0
1598.312500	25.4	V	-18.3	28.6	54.0
2127.250000	23.2	V	-15.8	30.8	54.0
2661.625000	26.5	V	-13.3	27.5	54.0
4959.437500	43.2	V	-6.6	10.8	54.0



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