

Prüfbericht-Nr.: Test report no.:	CN21D4R6 001	Auftrags-Nr.: Order no.:	244361353	Seite 1 von 34 Page 1 of 34
Kunden-Referenz-Nr.: Client reference no.:	2018581	Auftragsdatum: Order date:	2021-09-16	
Auftraggeber: Client:	JOYTECH Healthcare Co., Ltd No. 365, Wuzhou Road, Yuhang Economic Development Zone, Hangzhou City, 311100 Zhejiang, P.R. China			
Prüfgegenstand: Test item:	Bluetooth LE & Wi-Fi Module			
Bezeichnung / Typ-Nr.: Identification / Type no.:	JMD1200 FCC ID: 2AQVU0025 IC: 28012-JMD1200A			
Auftrags-Inhalt: Order content:	Complete test			
Prüfgrundlage: 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			
Wareneingangsdatum: Date of sample receipt:	2021-10-21			
Prüfmuster-Nr.: Test sample no.:	A003149462-001 A003149462-002			
Prüfzeitraum: Testing period:	Refer to test report			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	genehmigt von: authorized by:			
Datum: Date: 2022-01-18	Ausstellungsdatum: Issue date: 2022-01-18			
Stellung / Position: PE	Stellung / Position: Reviewer			
Sonstiges / HVIN: JMD1200 Other:				
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged			
* Legende: P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet * 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				
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 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 Module which supports Wi-Fi and Bluetooth LE. The aim of this report is to evaluate the RF characteristic of the Wi-Fi Part of this EUT. 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:	Bluetooth LE & Wi-Fi Module
Model No.:	JMD1200
Rated Voltage:	DC 3.3V
Technical Specification of BLE	
Frequency Range:	2402 to 2480MHz
Modulation Type:	GFSK
Data Rate:	1Mbps(GFSK)
Antenna Type:	PCB Antenna
Antenna Gain:	1.5dBi (Provided by the Client)
Technical Specification of Wi-Fi	
Frequency Range:	2412 to 2462MHz
Modulation Type:	802.11b: DSSS (CCK, DQPSK, DBPSK)
Data Rate:	802.11b: 1/2/5.5/11Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	1.5dBi (Provided by the Client)

3.3 Independent Operation Modes

Table 4: Independent Operation Modes

Test Mode	Operating Mode	Channel Number	Channel Frequency [MHz]
TM1	802.11b	1	2412
TM2	802.11b	6	2437
TM3	802.11b	11	2462
TM4	Normal Operating Mode		

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: SecureCRT

Table 5: Power parameter value

Operating Mode	Power Parameter Value
802.11b	AT+RFHP=208

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 PCB antenna, the directional gain of antenna is 1.5 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:	PCB antenna
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 PCB 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:	PCB Antenna
b) Manufacture:	N/A
c) Model No.:	N/A
d) Gain with reference to an isotropic radiator:	1.5dBi

Verdict: PASS

5.1.2 6dB & 99% Bandwidth**RESULT:****Pass**

Date of testing : 2021-11-11
Ambient temperature : 20.2°C
Relative humidity : 54.1%
Atmospheric pressure : 101kPa
Test requirement : FCC Part 15.247(a)(2)
RSS-247 Issue 2, February 2017, Clause 5.2(a)
Test procedure : ANSI C63.10: 2013
Test voltage : DC 3.3V
Test modes applied : TM1 to TM3

Table 8: 6dB & 99% Bandwidth

Test Mode	Data rate	CH.	Freq. [MHz]	6dB Bandwidth [MHz]	6dB Bandwidth limit [kHz]	99% Bandwidth [MHz]
TM1	1Mbps	1	2412	10.08	≥500	15.258
TM2	1Mbps	6	2437	10.07	≥500	15.230
TM3	1Mbps	11	2462	10.07	≥500	15.101

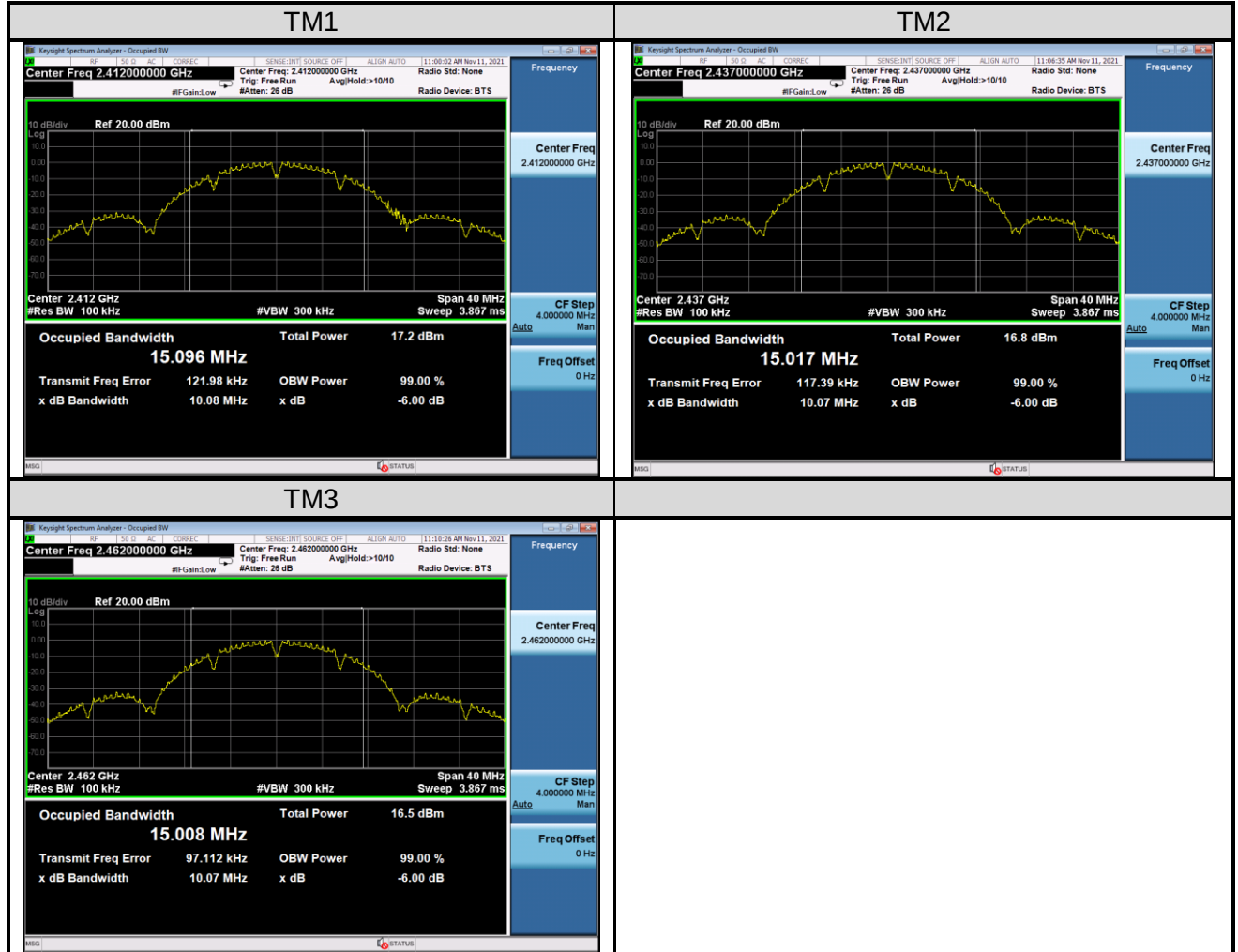
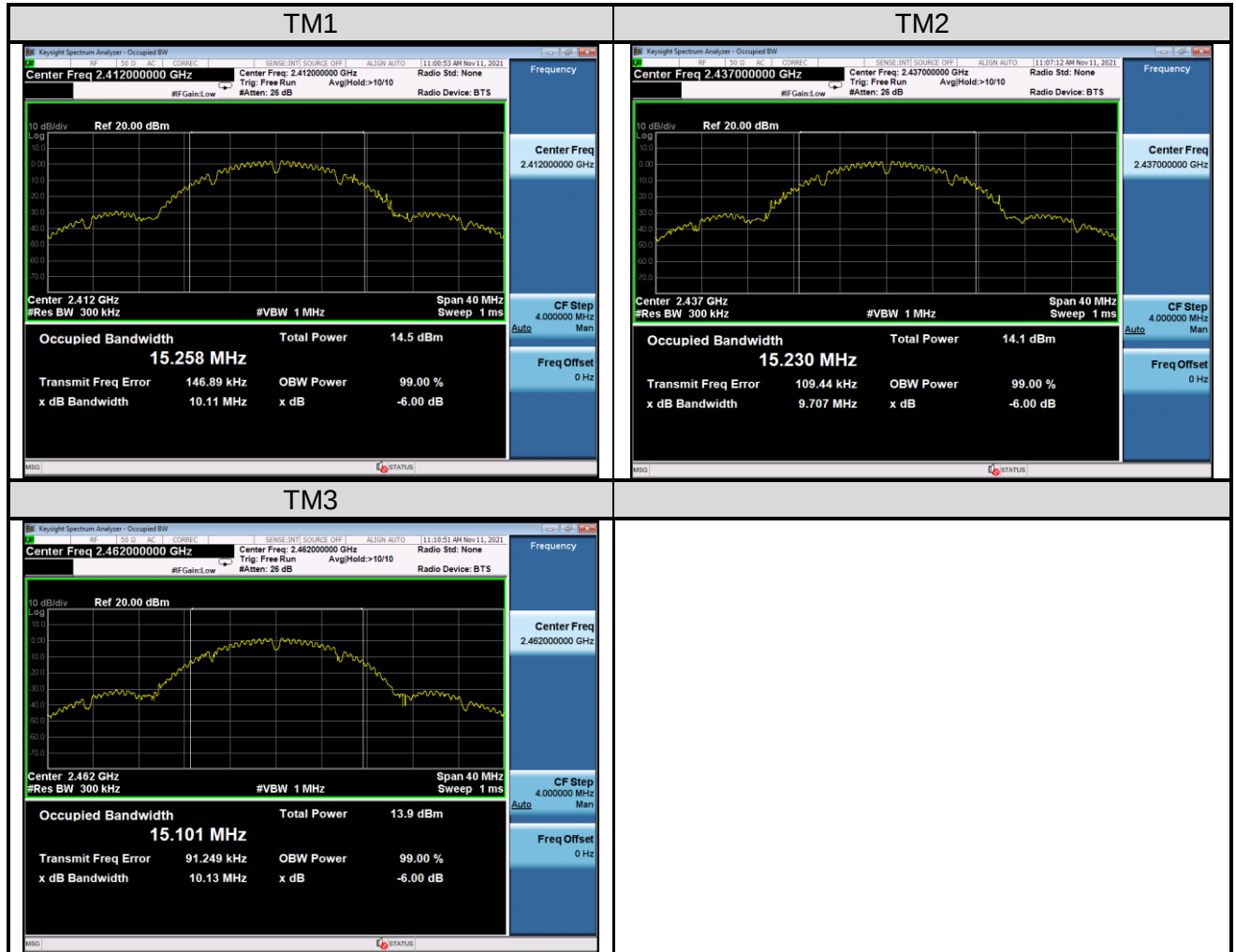
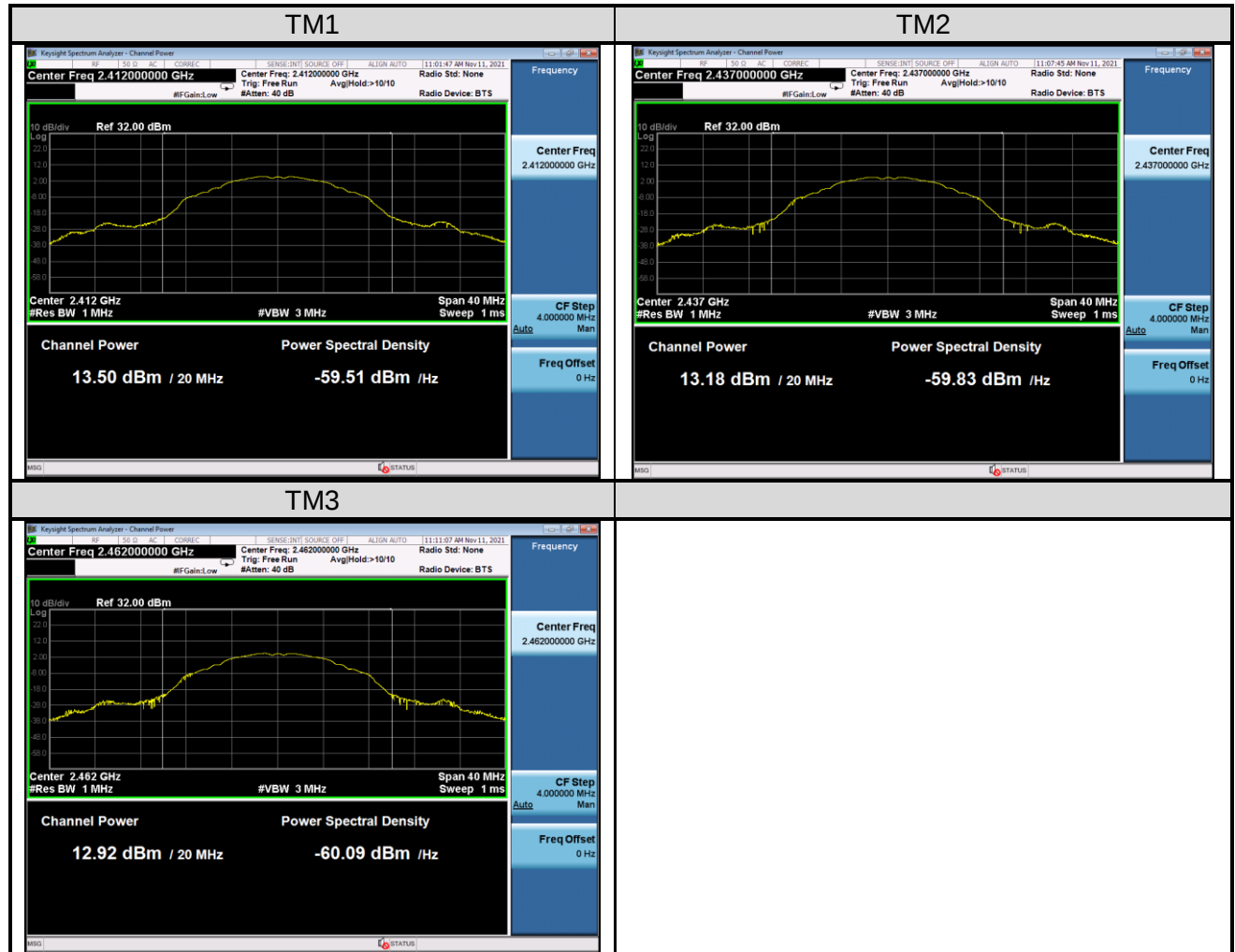
Figure 1: 6dB Bandwidth


Figure 2: 99% Bandwidth


The cable loss=1dB was provided by the client, and was factored in the result Peak Conducted Output Power

Figure 3: Peak Output Power, TM1 to TM3


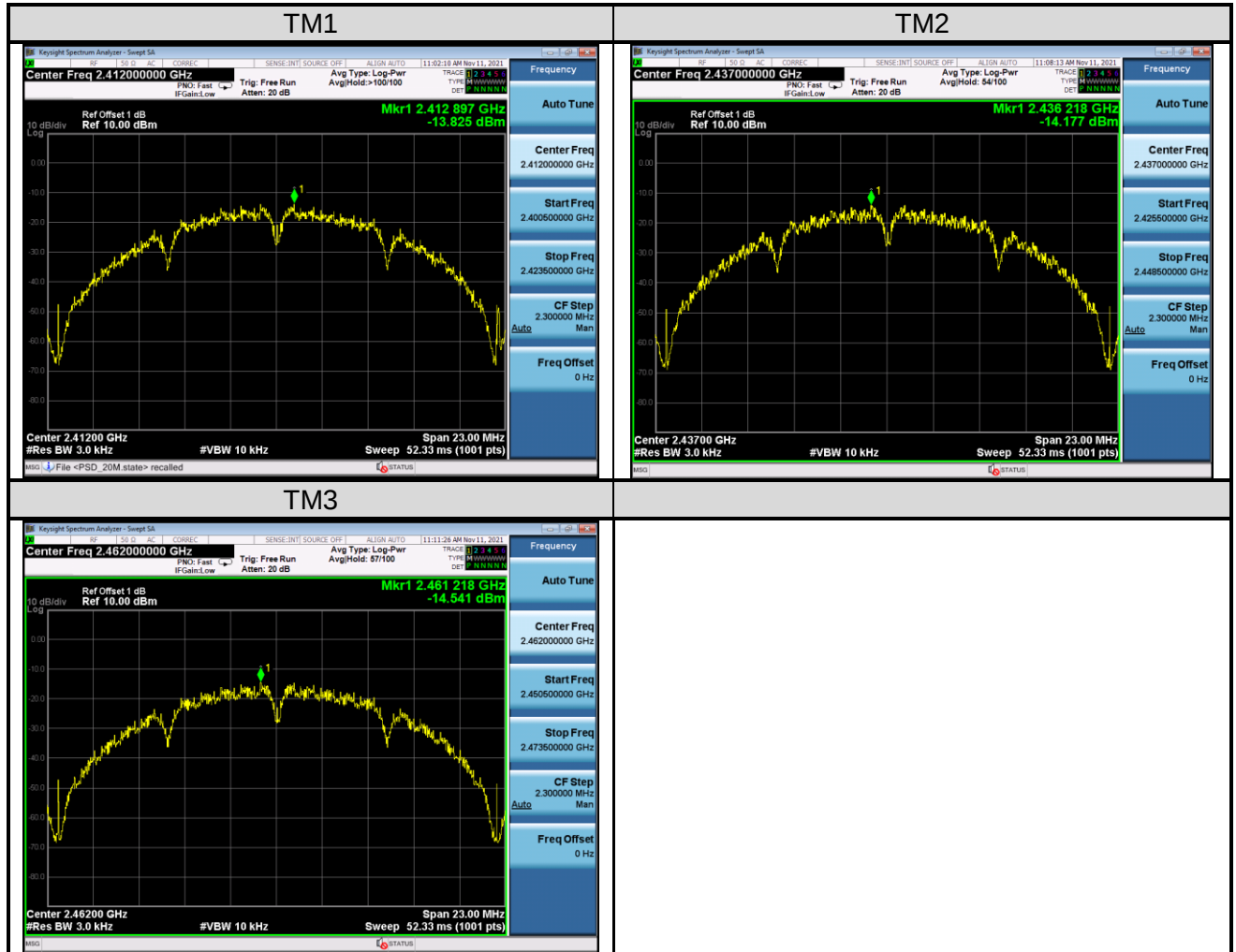
5.1.4 Power Spectral Density

RESULT:**Pass**

Date of testing : 2021-11-11
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 3.3V
Test modes applied : TM1 to TM3

Table 10: Power Spectral Density

Mode	Data rate/ MCS	CH.	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]
TM1	1Mbps	1	2412	-13.825	8
TM2	1Mbps	6	2437	-14.177	8
TM3	1Mbps	11	2462	-14.541	8

Figure 4: Power Spectral Density


5.1.5 Conducted Band Edge and out-of Band Emissions

RESULT:

Pass

Date of testing	: 2021-11-11 to 2021-12-09
Ambient temperature	: 20.2°C~21.3°C
Relative humidity	: 54.1%
Atmospheric pressure	: 101kPa
Test requirement	: FCC Part 15.247(d) RSS-247 Issue 2, February 2017, Clause 5.5
Test procedure	: ANSI C63.10: 2013
Test voltage	: DC 3.3V
Test modes applied	: TM1 to TM3

Figure 5: Reference level

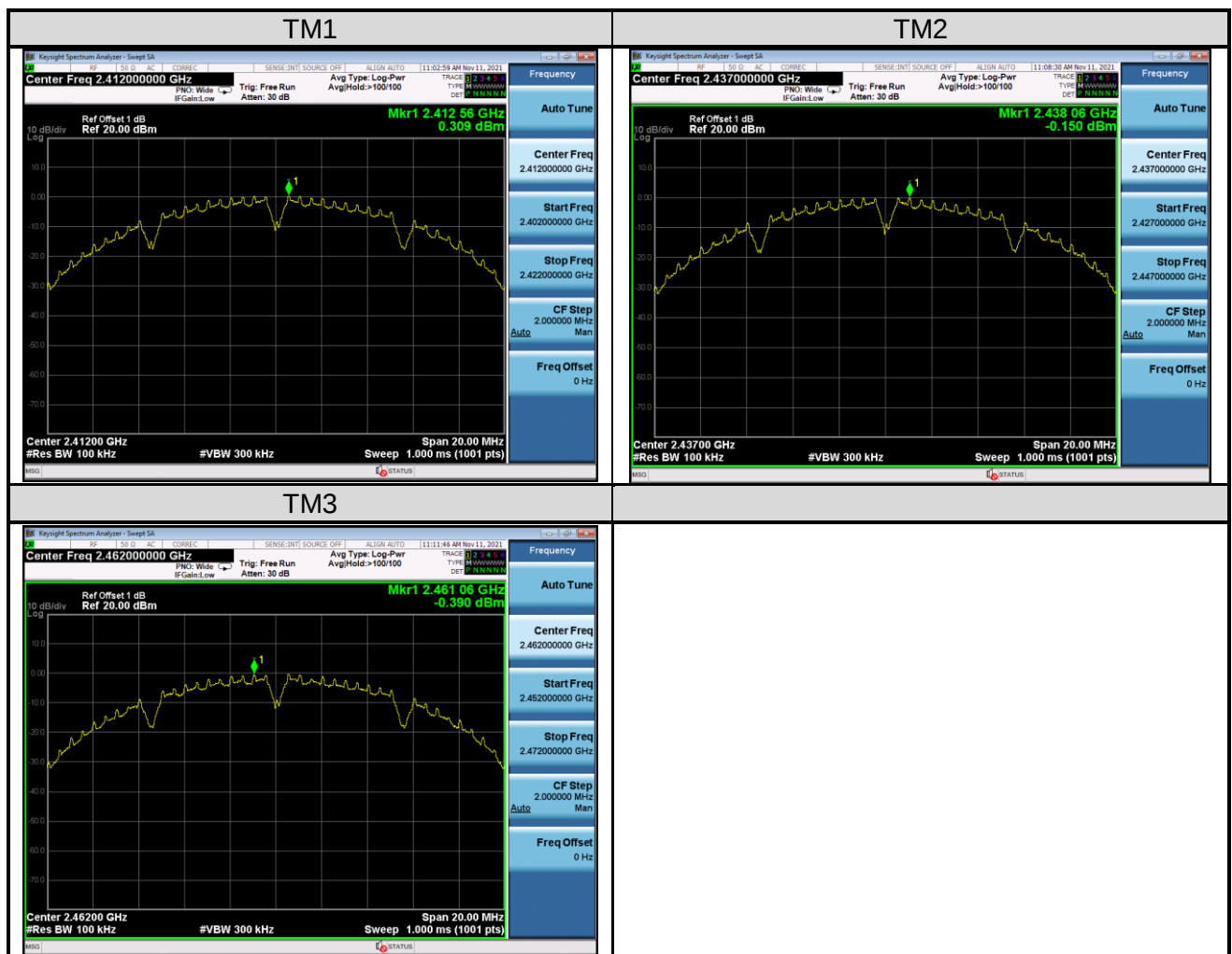
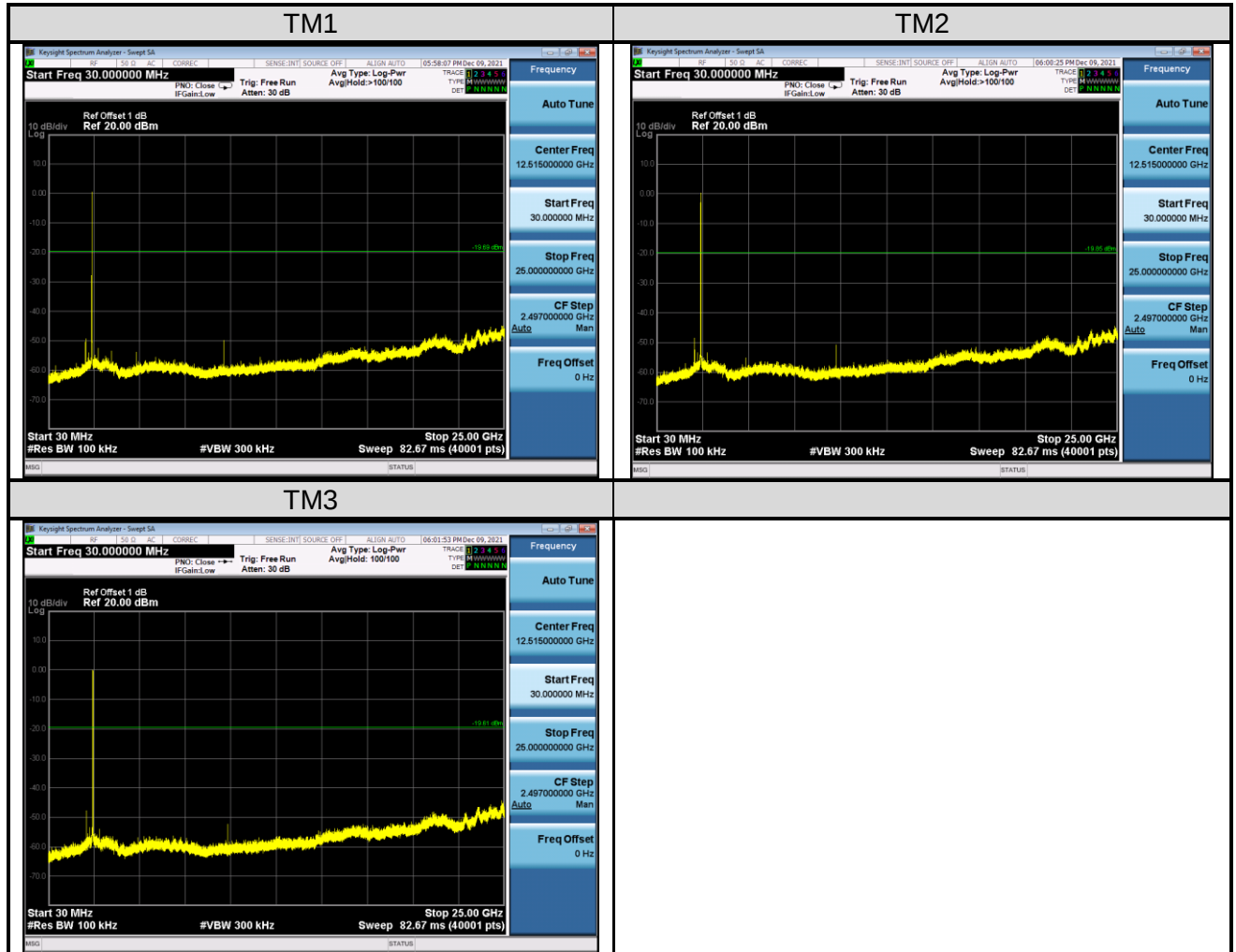
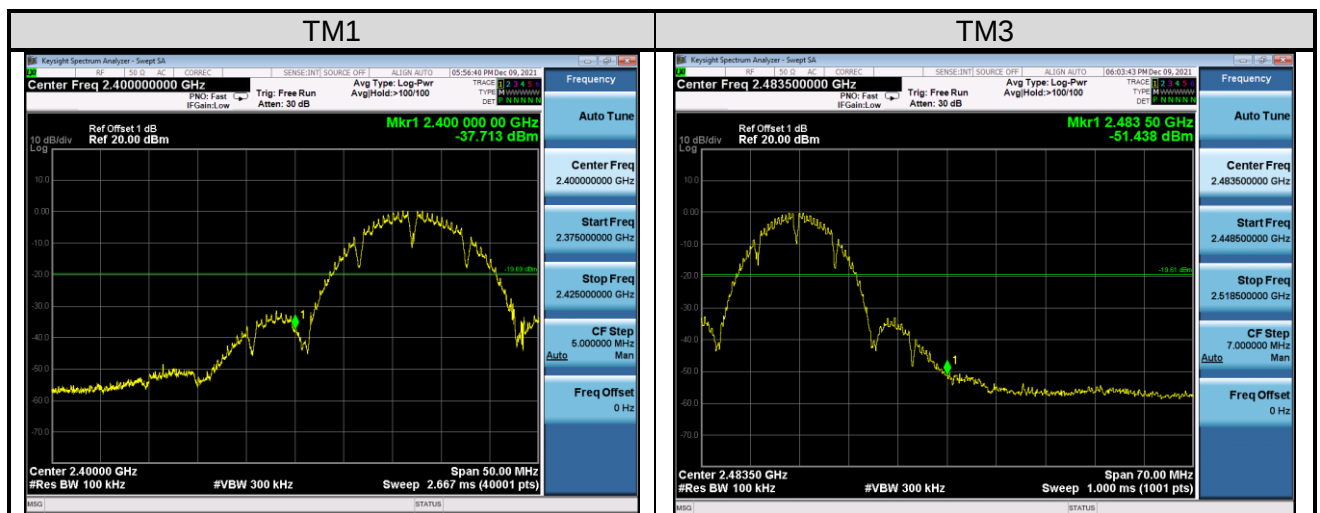


Figure 6: Conducted Spurious Emission

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

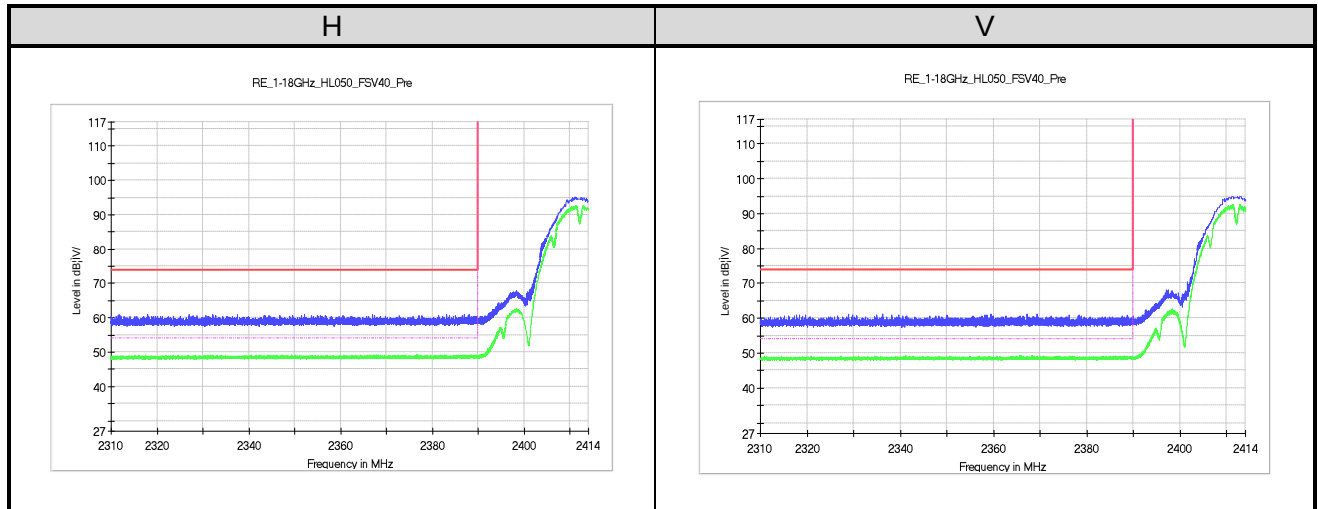
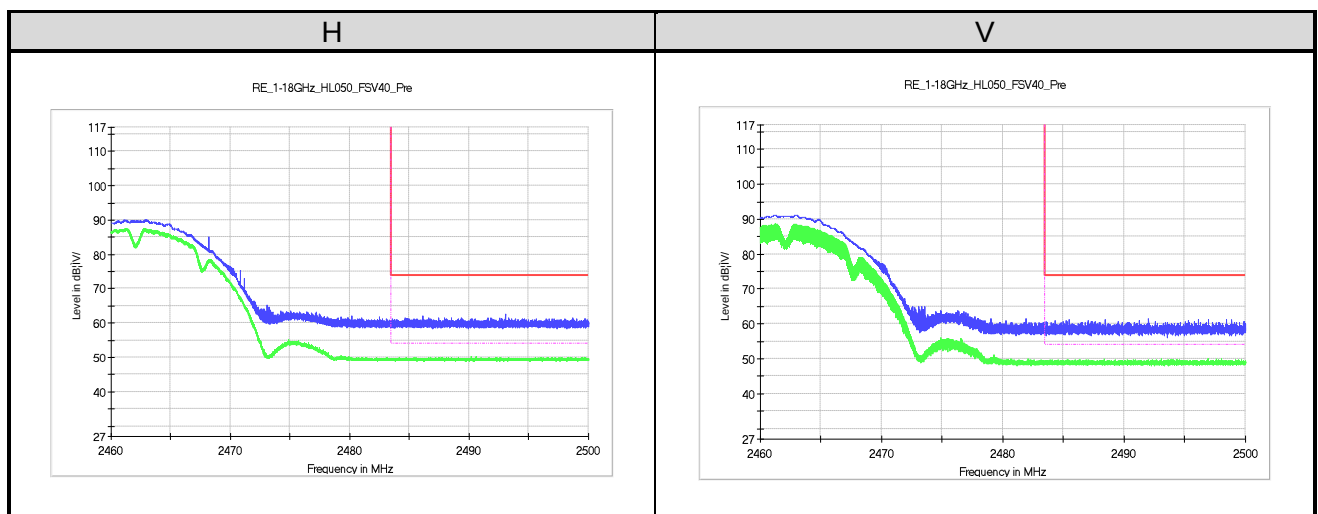
Note :
This product is power by DC3.3V.
So, this test is not applicable

5.3 Emission in the Frequency Range above 30MHz

5.3.1 Radiated Band-Edge

RESULT:**Pass**

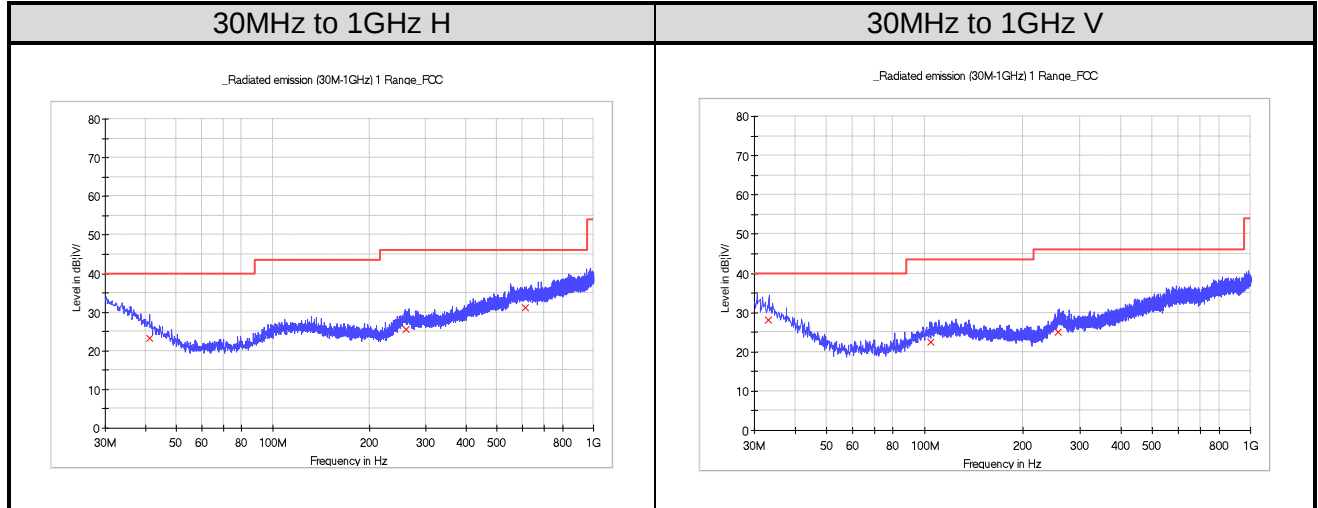
Date of testing	:	2021-10-26
Ambient temperature	:	25.3°C
Relative humidity	:	38.4%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.247(d) FCC Part 15.205(a) FCC Part 15.209(a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.9 RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.10 RSS-247 Issue 2, February 2017, Clause 5.5
Test procedure	:	ANSI C63.10: 2013
Test voltage	:	DC 3.3V
Test modes applied	:	TM1, TM3

Figure 8: Radiated Band-Edge, TM1

Figure 9: Radiated Band-Edge, TM3


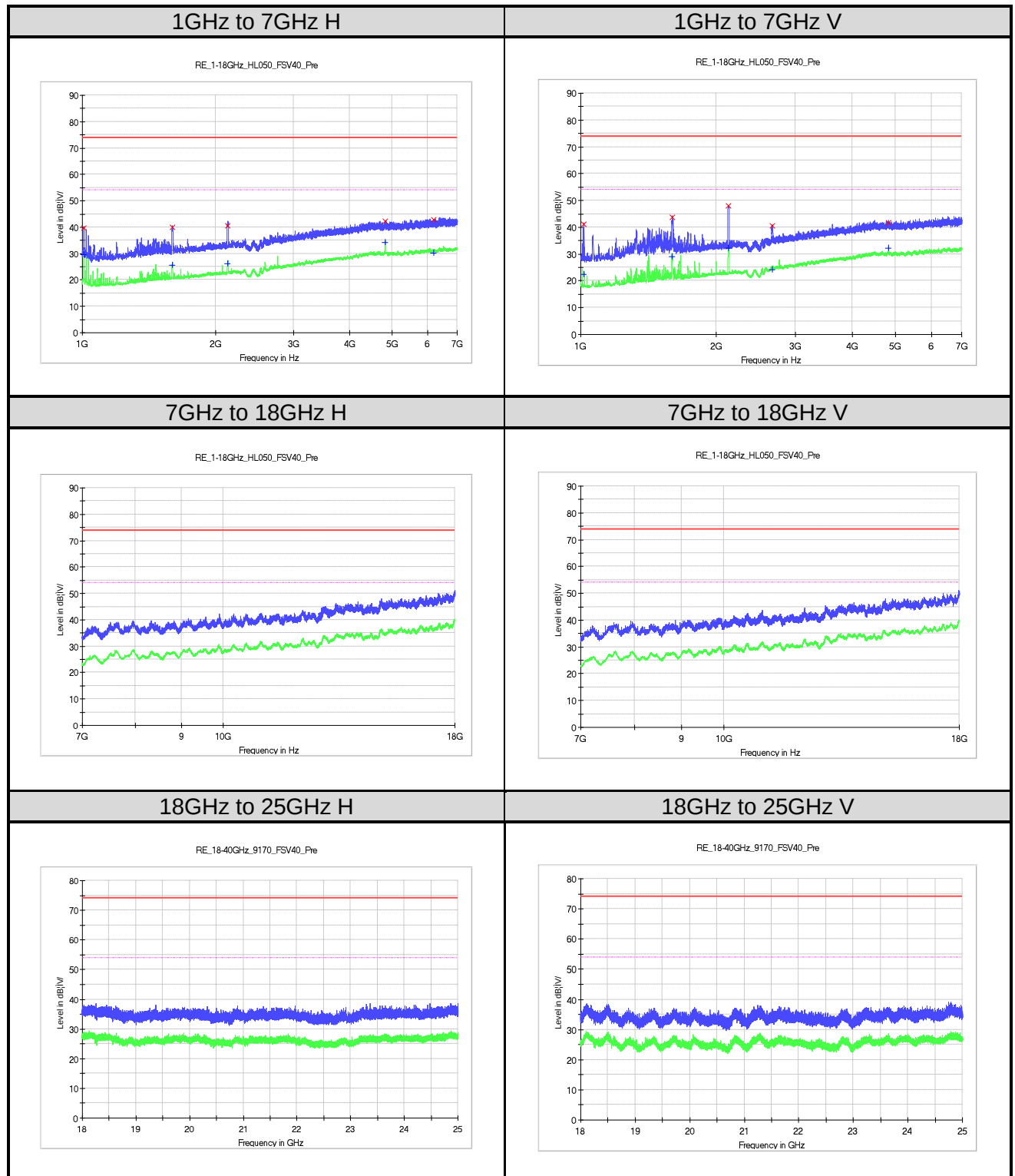
5.3.2 Radiated Spurious Emission

RESULT:**Pass**

Date of testing	:	2021-10-26 ~ 2021-11-09
Ambient temperature	:	26.1°C
Relative humidity	:	32.7 %
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 3.3V
Test modes applied	:	TM1 to TM3

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

Limit and Margin

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
41.280000	23.3	H	19.1	16.7	40.0
259.860000	25.5	H	20.7	20.5	46.0
612.000000	31.2	H	26.2	14.8	46.0
33.180000	28.0	V	23.7	12.0	40.0
104.340000	22.4	V	18.2	21.1	43.5
256.620000	25.0	V	20.2	21.0	46.0

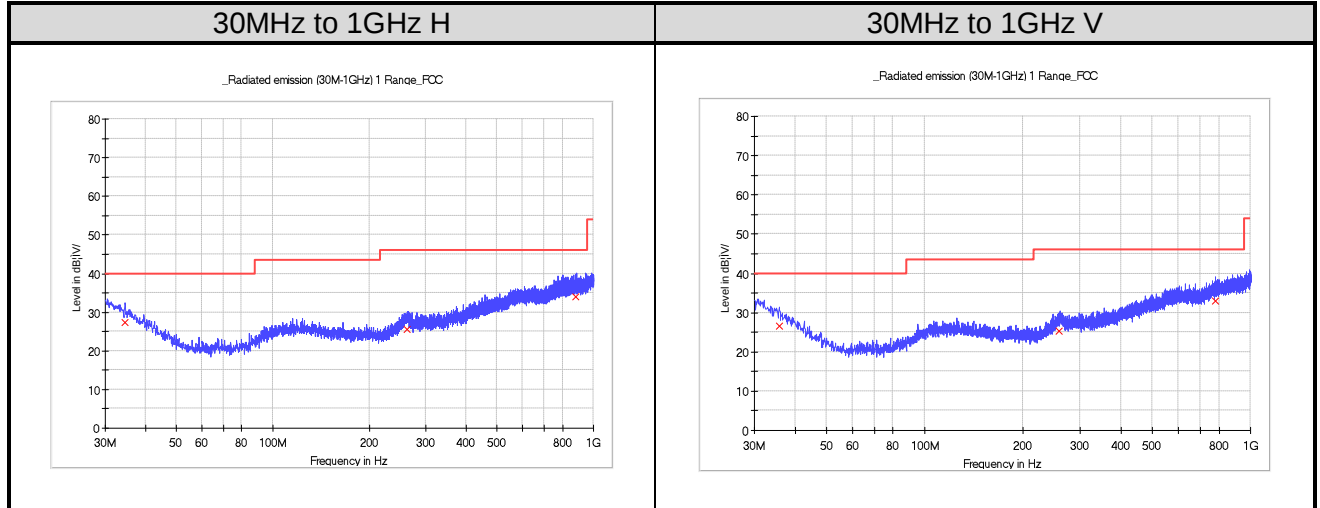
Figure 11: Radiated Spurious Emission, TM1, 1GHz to 25GHz


Limit and Margin
PK

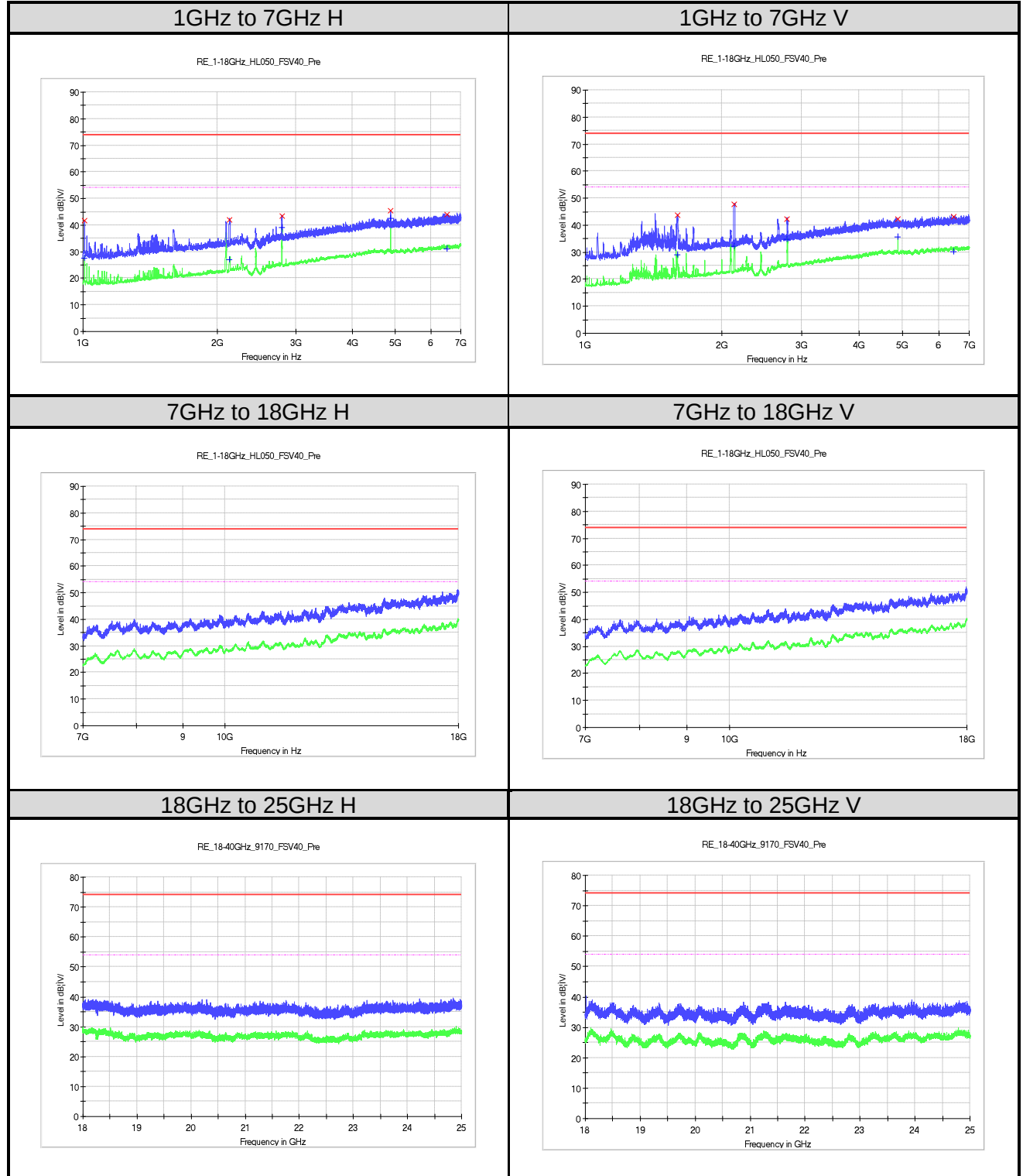
Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1007.800000	39.8	H	-22.4	34.2	74.0
1595.800000	40.1	H	-18.3	33.9	74.0
2129.800000	40.7	H	-15.7	33.4	74.0
4824.400000	42.3	H	-6.5	31.7	74.0
6191.200000	42.8	H	-5.4	31.2	74.0
1017.400000	41.1	V	-22.4	32.9	74.0
1598.800000	43.7	V	-18.3	30.3	74.0
2124.400000	48.0	V	-15.8	26.0	74.0
2658.400000	40.6	V	-13.3	33.4	74.0
4824.400000	41.7	V	-6.5	32.3	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1007.800000	29.5	H	-22.4	24.5	54.0
1595.800000	25.7	H	-18.3	28.3	54.0
2129.800000	26.1	H	-15.7	27.9	54.0
4824.400000	34.2	H	-6.5	19.8	54.0
6191.200000	30.1	H	-5.4	23.9	54.0
1017.400000	22.3	V	-22.4	31.7	54.0
1598.800000	28.9	V	-18.3	25.1	54.0
2124.400000	32.2	V	-15.8	21.8	54.0
2658.400000	24.3	V	-13.3	29.7	54.0
4824.400000	32.2	V	-6.5	21.8	54.0

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

Limit and Margin

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
34.620000	27.3	H	23.0	12.7	40.0
261.480000	25.4	H	20.7	20.6	46.0
882.480000	33.9	H	28.0	12.1	46.0
35.700000	26.7	V	22.4	13.4	40.0
258.300000	25.3	V	20.5	20.7	46.0
781.380000	32.9	V	27.3	13.1	46.0

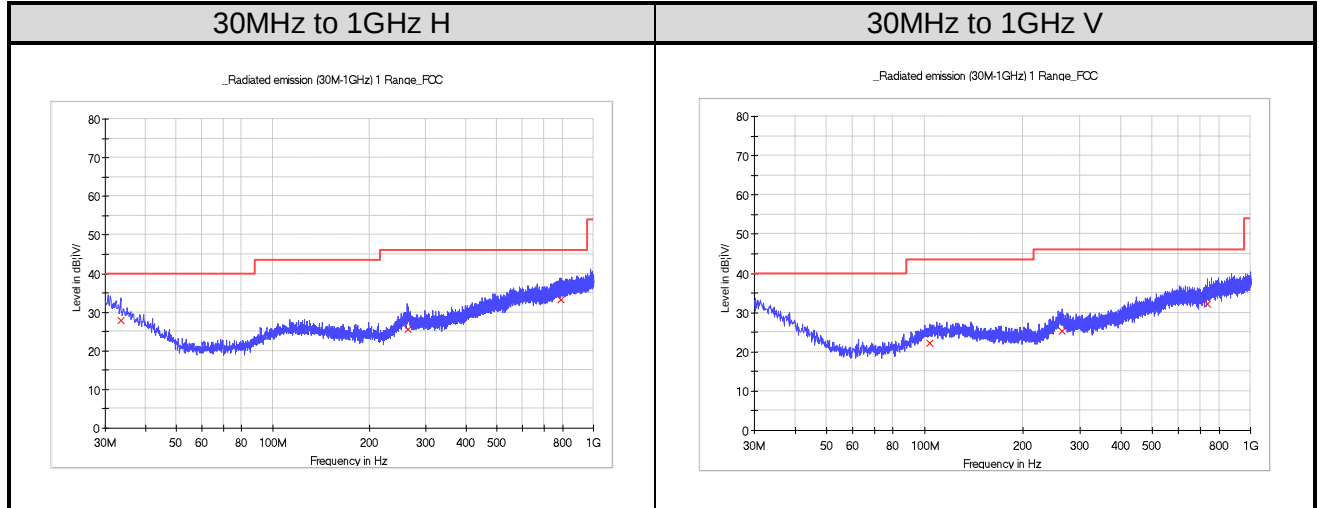
Figure 13: Radiated Spurious Emission, TM2, 1GHz to 25GHz


Limit and Margin
PK

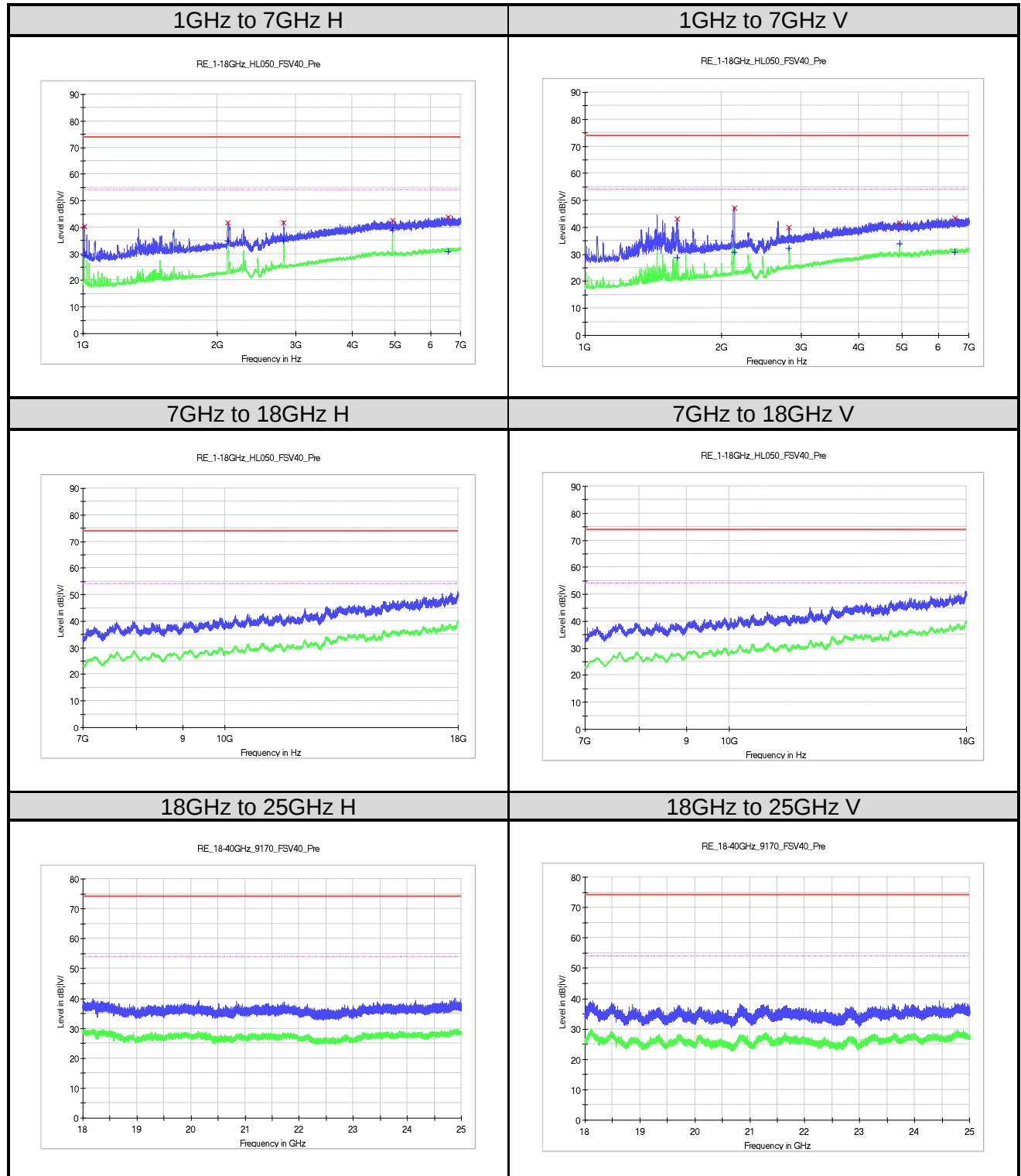
Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1009.000000	41.6	H	-22.4	32.4	74.0
2125.600000	42.1	H	-15.8	31.9	74.0
2785.000000	43.3	H	-12.7	30.7	74.0
4874.200000	45.5	H	-6.5	28.5	74.0
6533.800000	43.9	H	-4.6	30.1	74.0
1596.400000	43.8	V	-18.3	30.2	74.0
2128.000000	47.7	V	-15.7	26.3	74.0
2783.800000	42.4	V	-12.7	31.6	74.0
4874.200000	42.4	V	-6.5	31.6	74.0
6463.000000	43.0	V	-4.7	31.0	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1009.000000	27.5	H	-22.4	26.5	54.0
2125.600000	27.0	H	-15.8	27.0	54.0
2785.000000	39.0	H	-12.7	15.0	54.0
4874.200000	42.6	H	-6.5	11.4	54.0
6533.800000	31.0	H	-4.6	23.0	54.0
1596.400000	29.0	V	-18.3	25.0	54.0
2128.000000	32.1	V	-15.7	21.9	54.0
2783.800000	34.9	V	-12.7	19.1	54.0
4874.200000	35.6	V	-6.5	18.4	54.0
6463.000000	30.3	V	-4.7	23.7	54.0

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

Limit and Margin

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
33.540000	27.9	H	23.5	12.1	40.0
264.120000	25.4	H	20.7	20.6	46.0
791.100000	33.2	H	27.6	12.8	46.0
103.500000	22.4	V	18.1	21.2	43.5
263.640000	25.4	V	20.7	20.6	46.0
738.960000	32.1	V	27.0	13.9	46.0

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


Limit and Margin
PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1007.800000	40.2	H	-22.4	33.8	74.0
2109.400000	41.6	H	-15.8	32.4	74.0
2812.600000	41.8	H	-12.6	32.2	74.0
4924.000000	42.6	H	-6.6	31.4	74.0
6575.200000	43.6	H	-4.6	30.4	74.0
1594.000000	43.1	V	-18.4	30.9	74.0
2132.200000	47.1	V	-15.7	26.9	74.0
2811.400000	40.1	V	-12.6	33.9	74.0
4924.000000	41.7	V	-6.6	32.3	74.0
6519.400000	43.4	V	-4.6	30.6	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1007.800000	29.4	H	-22.4	24.6	54.0
2109.400000	34.8	H	-15.8	19.2	54.0
2812.600000	34.9	H	-12.6	19.1	54.0
4924.000000	38.7	H	-6.6	15.3	54.0
6575.200000	30.7	H	-4.6	23.3	54.0
1594.000000	28.8	V	-18.4	25.2	54.0
2132.200000	30.9	V	-15.7	23.1	54.0
2811.400000	32.3	V	-12.6	21.7	54.0
4924.000000	34.1	V	-6.6	19.9	54.0
6519.400000	30.8	V	-4.6	23.2	54.0

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