

Prüfbericht-Nr.: Test report no.:	CN22KKZG 001	Auftrags-Nr.: Order no.:	244412844	Seite 1 von 53 Page 1 of 53
Kunden-Referenz-Nr.: Client reference no.:	P00621277	Auftragsdatum: Order date:	2022-03-11	
Auftraggeber: Client:	FCC: Decathlon America LLC 1160 Battery Street, Suite 100, San Francisco, CA 94111, United States IC: DECATHLON SE 4 Boulevard de Mons, VILLENEUVE D'ASCQ, 59650, France			
Prüfgegenstand: Test item:	Remote control			
Bezeichnung / Typ-Nr.: Identification / Type no.:	338978 RUN100E REMOTE CONTROLE FCC ID: 2A8UORUN100ERC IC: 24468-RUN100ERC			
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:	2022-03-09			
Prüfmuster-Nr.: Test sample no.:	A003224036-001			
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:	X Yanli Fan		genehmigt von: authorized by:	X Hongfei Wu
Datum: Date:	2022-10-10	Ausstellungsdatum: Issue date:		2022-10-10
Signed by: Yanli Fan		Signed by: Hongfei Wu		
Stellung / Position:	PE/Yanli Fan	Stellung / Position:	Reviewer/Hongfei Wu	
Sonstiges / Other:	HVIN: RUN100E REMOTE CONTROLE Supplier name: Zhejiang Arcana Power Sports Supplier code: 46559 Model code: N/A Conception code: 338978 Test request no.: L074-03-2201-0010			
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	2022-09-17
Spectrum analyser	Rohde & Schwarz	FSV40	G1822702	2023-03-10
Preamplifier	Taiwan EMCI	EMC184045SE	G1825372	2023-03-06
Log periodic antenna	Rohde & Schwarz	HL050	G1811417	2023-03-10
Broadband Horn Antenna	Schwarzbeck	BBHA 9170	9170-305	2022-07-08
Preamplifier	Taiwan EMCI	EMC051845SE	G1825371	2023-03-06
Spectrum Analyzer	Keysight	N9020A	MY54500180	2022-09-07
Thermohygrometer	Testo	608-H1	1241320614	2023-10-12
EMI test receiver	R&S	ESIB26	G1811380	2023-03-06
Artificial main network	R&S	ENV432	G1830003	2022-11-01
Spectrum Analyzer	Keysight	N9020A	MY54500180	2022-09-07
EMC measurement software	R&S	EMC32 (Ver 10.20.01)	G1824845	N/A

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
Conducted Emission	150kHz - 30MHz	±3.39dB
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 Remote control which supports Bluetooth Low Energy.

The aim of this report is to evaluate the RF characteristic of the Bluetooth Low Energy 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:	Remote control
Model No.:	338978 RUN100E REMOTE CONTROLE
Test Voltage:	DC 3.3V for RF Conducted and Radiated Test
Technical Specification of Bluetooth Low Energy	
Frequency Range:	2402 to 2480MHz
Modulation Type:	GFSK
Data Rate:	1Mbps
Antenna Type:	PCB Antenna
Antenna Gain:	-6.5dBi (Provided by the Client)

3.3 Independent Operation Modes

Table 4: Independent Operation Modes

Test Mode	Operating Mode	Channel Number	Channel Frequency [MHz]
TM1	1Mb/s	00	2402
TM2	1Mb/s	19	2440
TM3	1Mb/s	39	2480
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.

Table 5: Power parameter value

Channel Frequency [MHz]	Power Parameter Value
2402	15
2440	15
2480	15

4.3 Special Accessories and Auxiliary Equipment

Table 6: Auxiliary Equipment

Product Name	Model Name	Manufactory
Laptop	TP00001A	Lenovo

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 -6.5 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	

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Page 11 of 53**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:	-6.5dBi

Verdict: PASS

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

Date of testing : 2022-06-07
Ambient temperature : 20.2°C
Relative humidity : 51.6%
Atmospheric pressure : 101kPa
Test requirement : FCC Part 15.247(a)(1)
RSS-247 Issue 2, February 2017, Clause 5.1(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	CH.	Freq. [MHz]	6dB Bandwidth [kHz]	6dB Bandwidth limit [kHz]	99% Bandwidth [MHz]
TM1	00	2402	685.0	≥500	1.0745
TM2	19	2440	682.9	≥500	1.0955
TM3	39	2480	683.7	≥500	1.1166

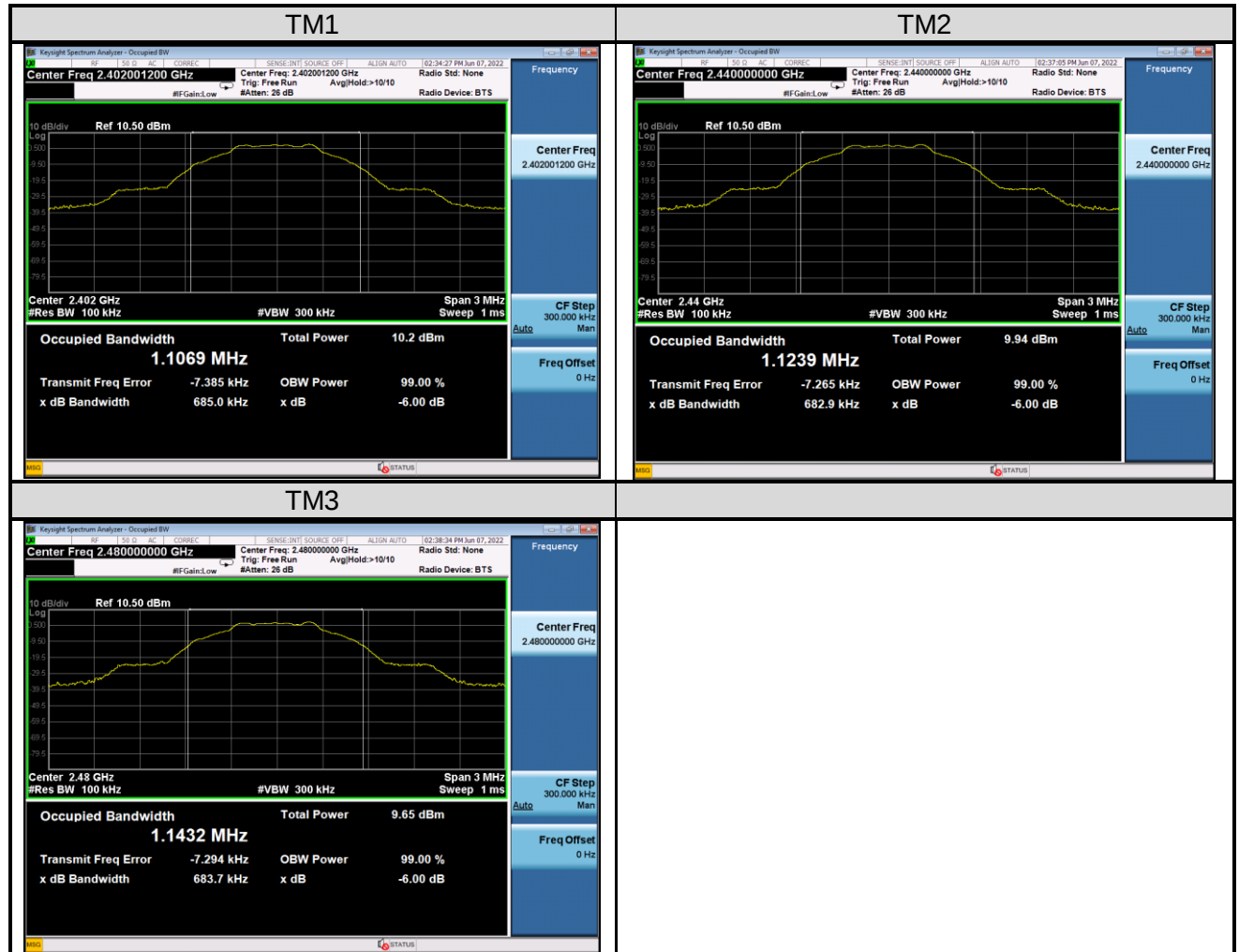
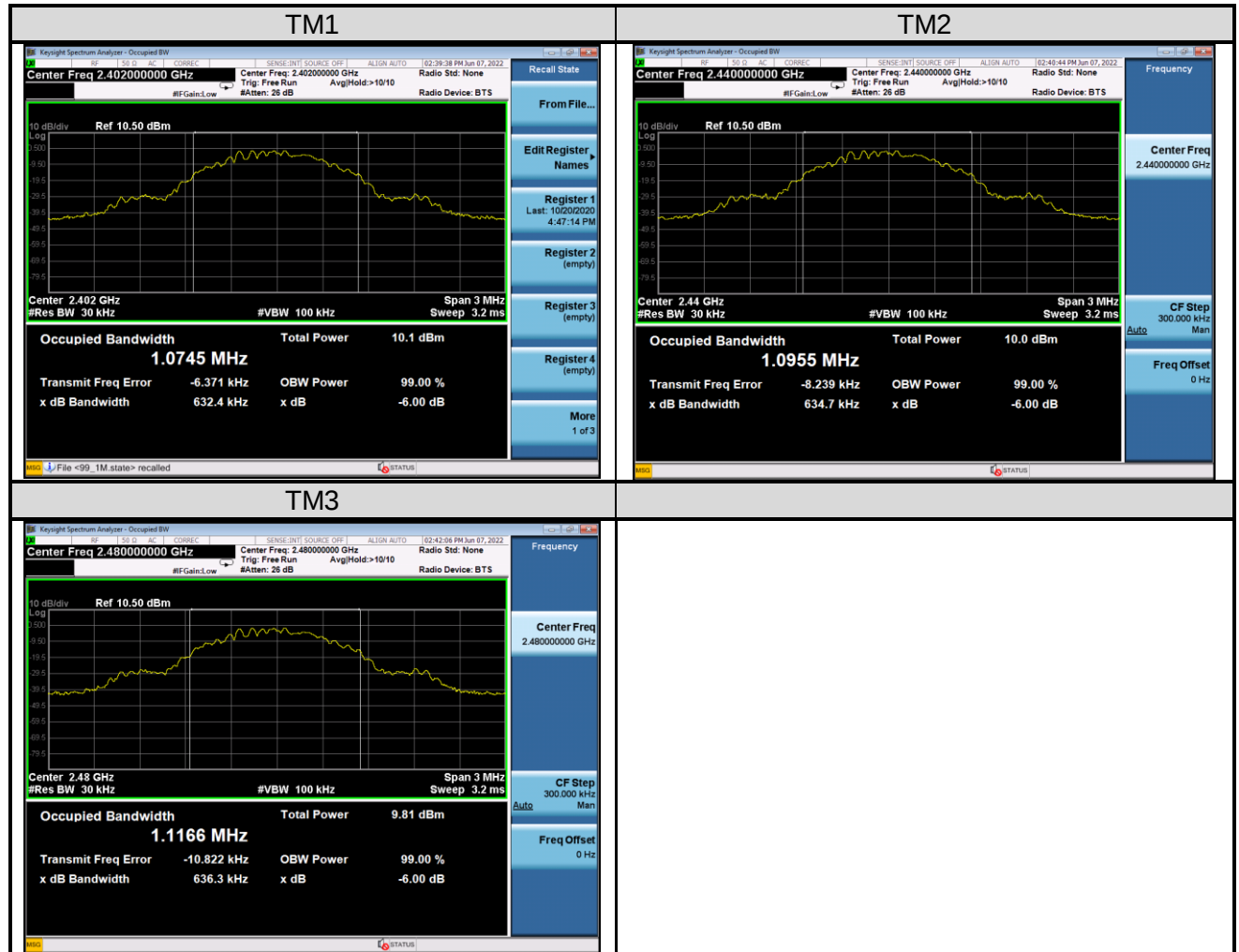
Figure 1: 6dB Bandwidth


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

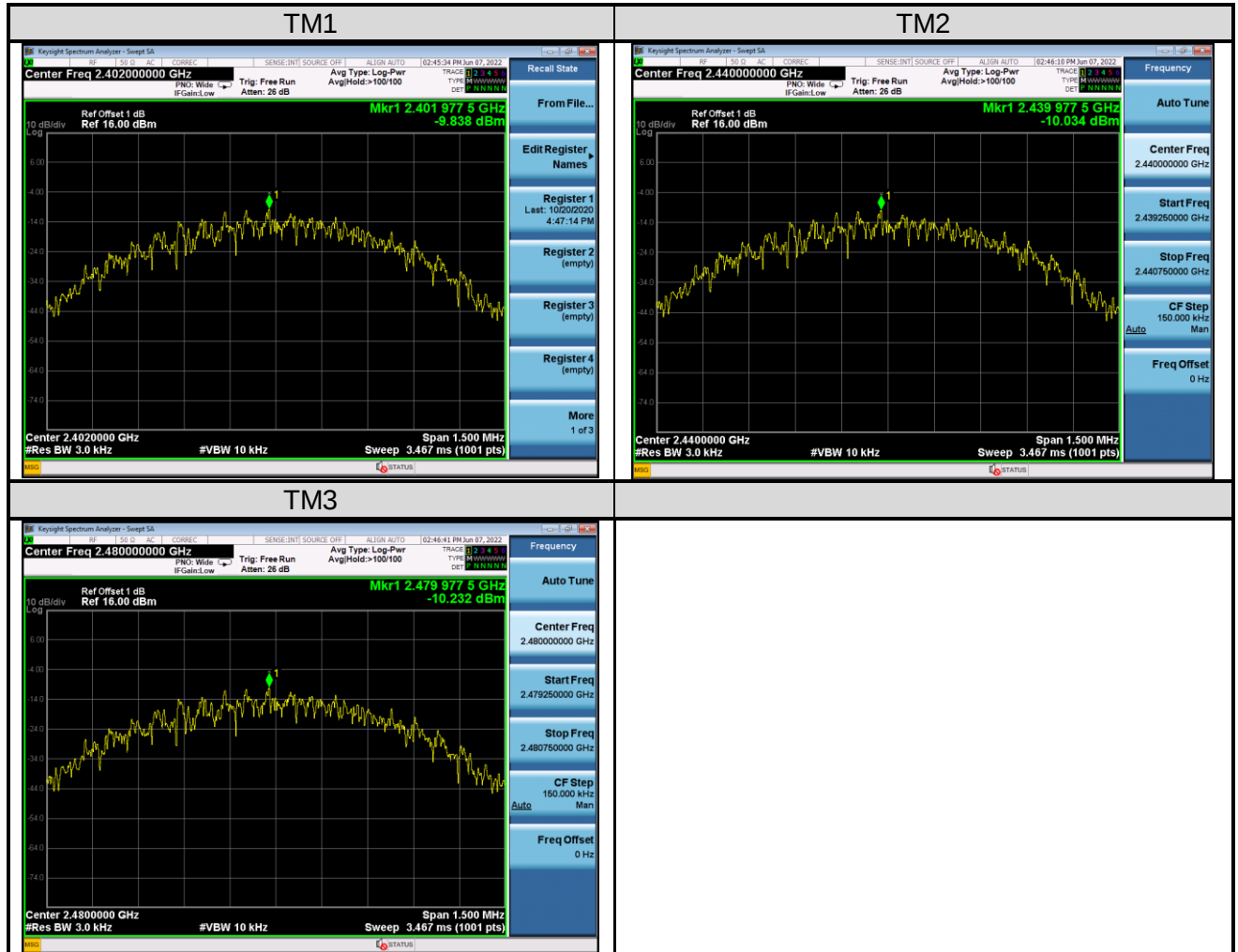

5.1.4 Power Spectral Density

RESULT:**Pass**

Date of testing : 2022-06-07
Ambient temperature : 20.2°C
Relative humidity : 51.6%
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	CH.	Frequency [MHz]	Result [dBm/3kHz]	Limit [dBm/3kHz]
TM1	00	2402	-9.838	8
TM2	19	2440	-10.034	8
TM3	39	2480	-10.232	8

Figure 4: Power Spectral Density


5.1.5 Conducted Band Edge and out-of Band Emissions

RESULT:**Pass**

Date of testing	:	2022-06-07
Ambient temperature	:	20.2°C
Relative humidity	:	51.6%
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

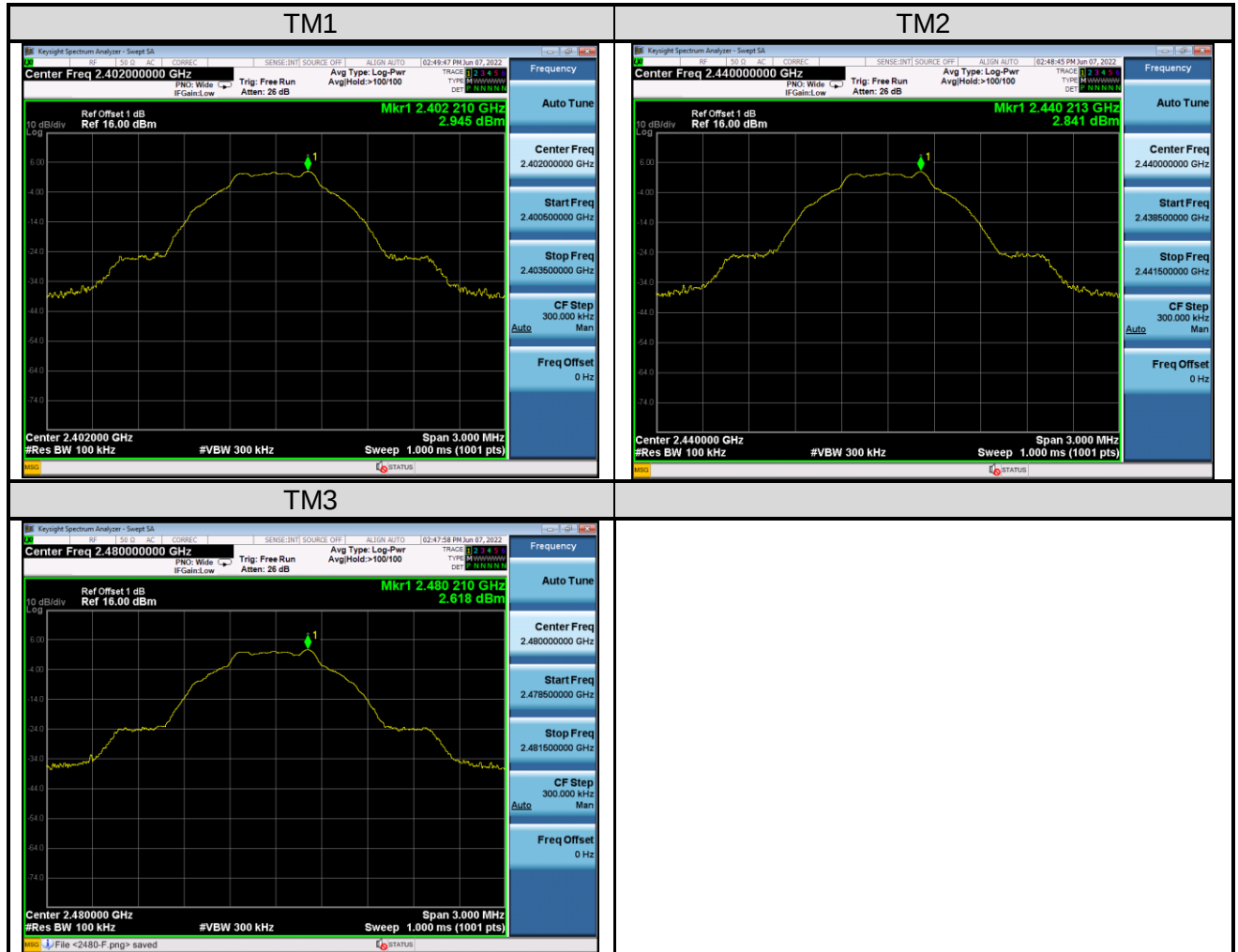
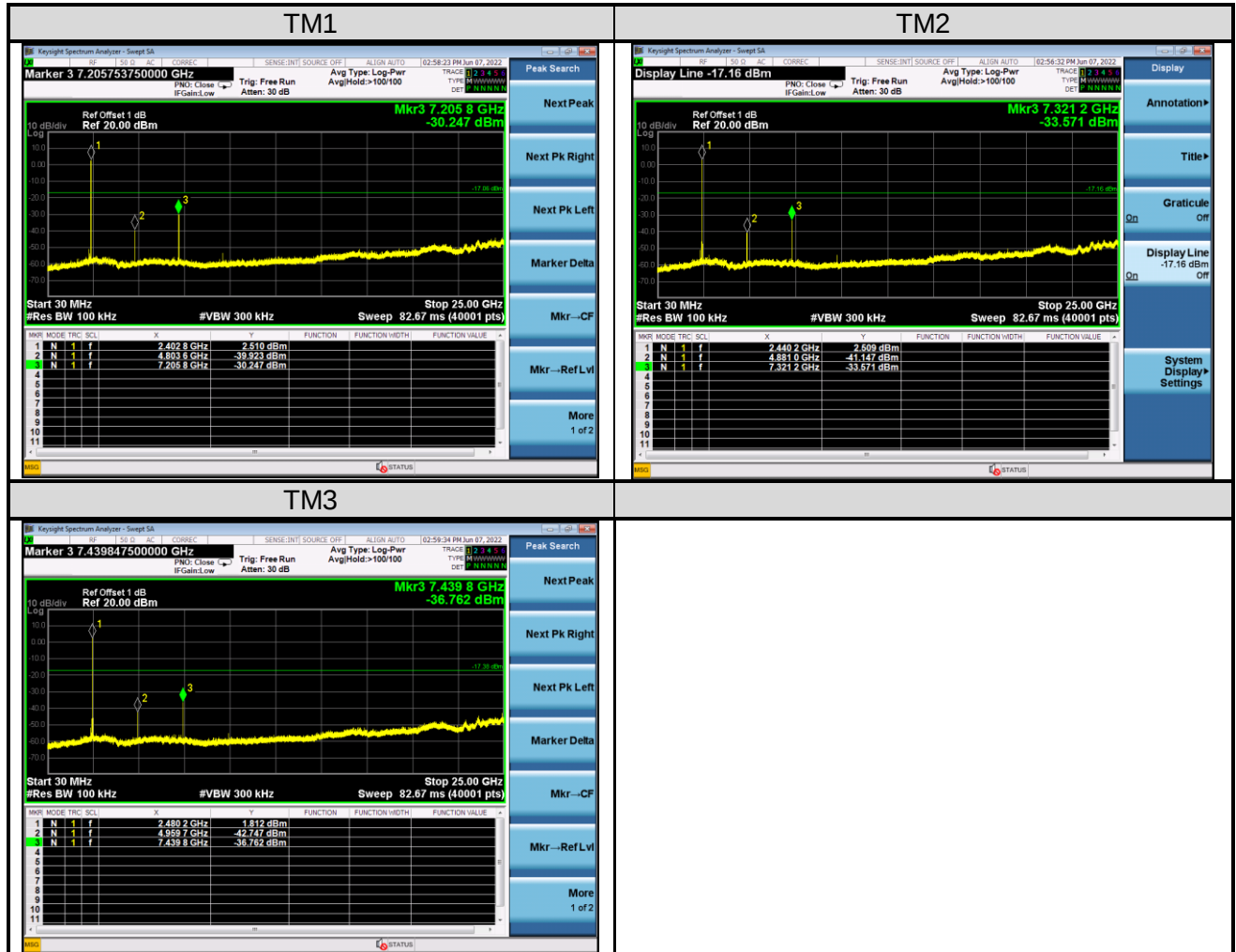
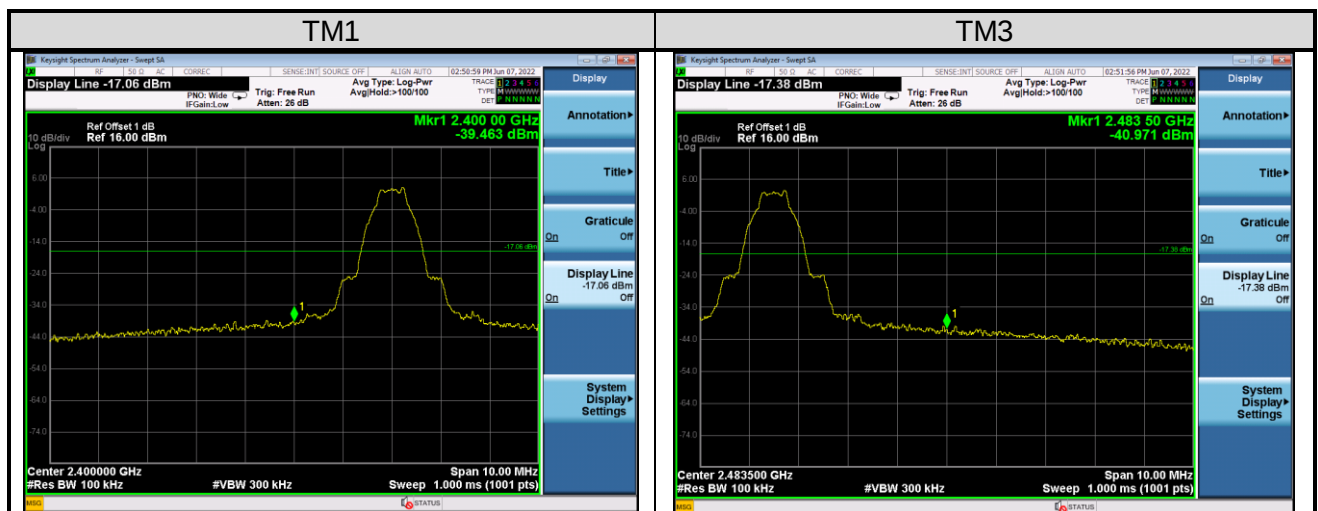
Figure 5: Reference level


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: Conducted Emission are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines, the sample is the Remote control which power supplies by battery. So, this requirement is not applicable for the EUT.

5.3 Emission in the Frequency Range above 30MHz

5.3.1 Radiated Band-Edge

RESULT:**Pass**

Date of testing	:	2022-03-22
Ambient temperature	:	23.6°C
Relative humidity	:	52.4%
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, H

2310 ~ 2410 BE 1-18GHz_HL050_FSV40_Pre

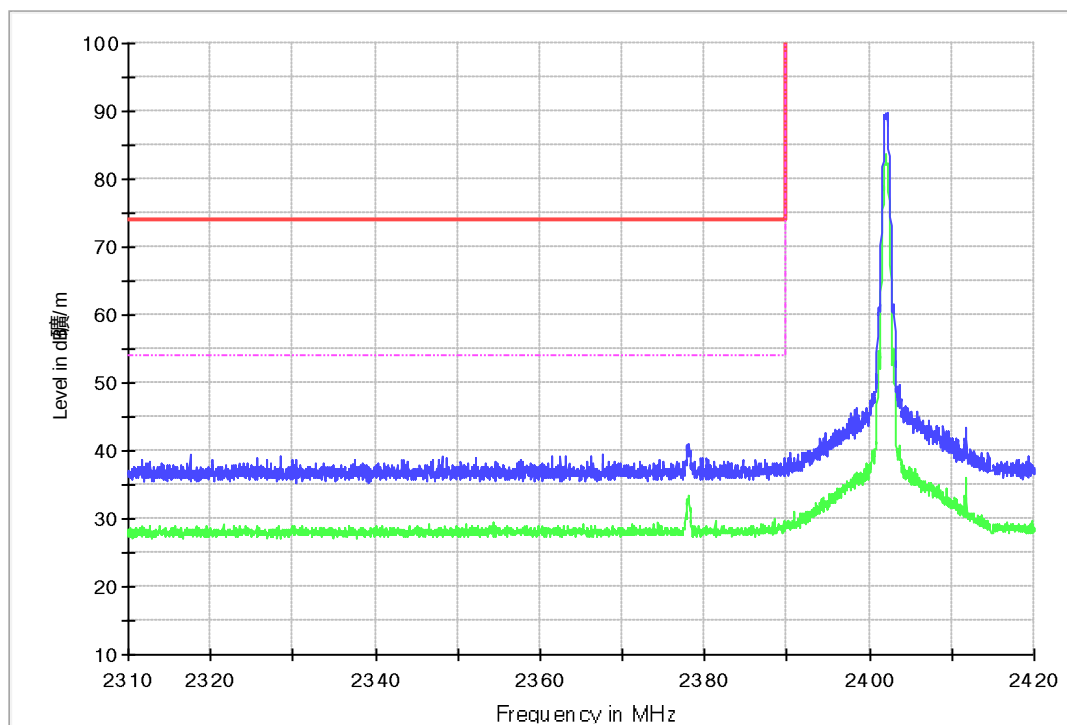


Figure 9: Radiated Band-Edge, TM1, V

2310 ~ 2410 BE 1-18GHz_HL050_FSV40_Pre

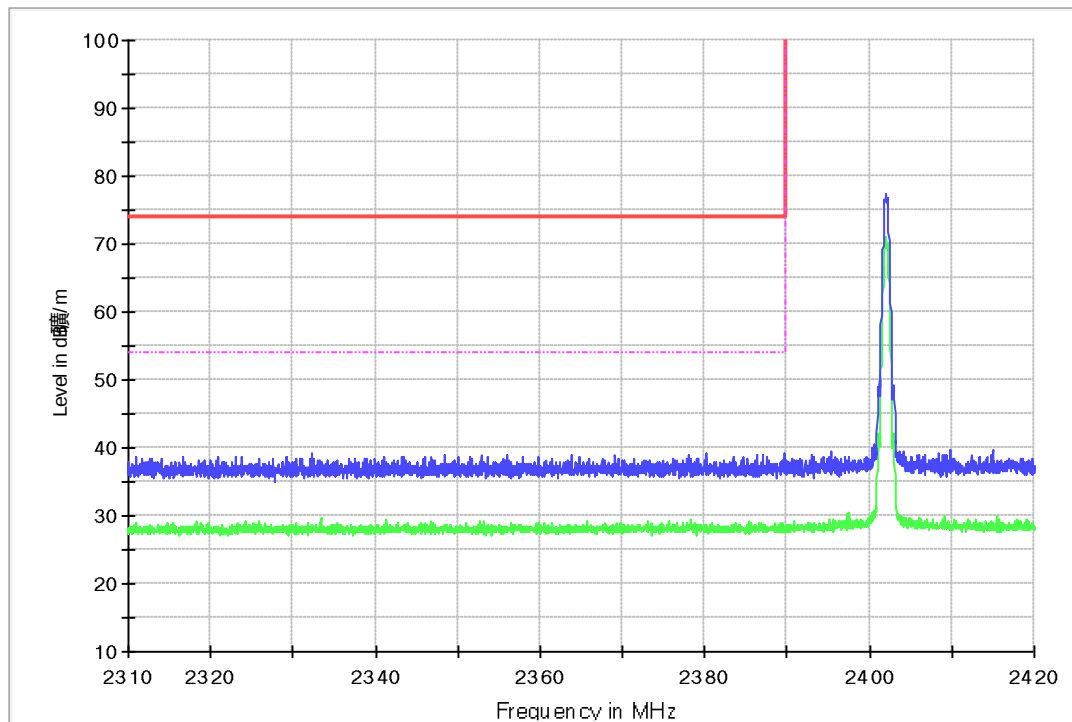


Figure 10: Radiated Band-Edge, TM3, H

2470~2500 BE_1-18GHz_HL050_FSV40_Pre

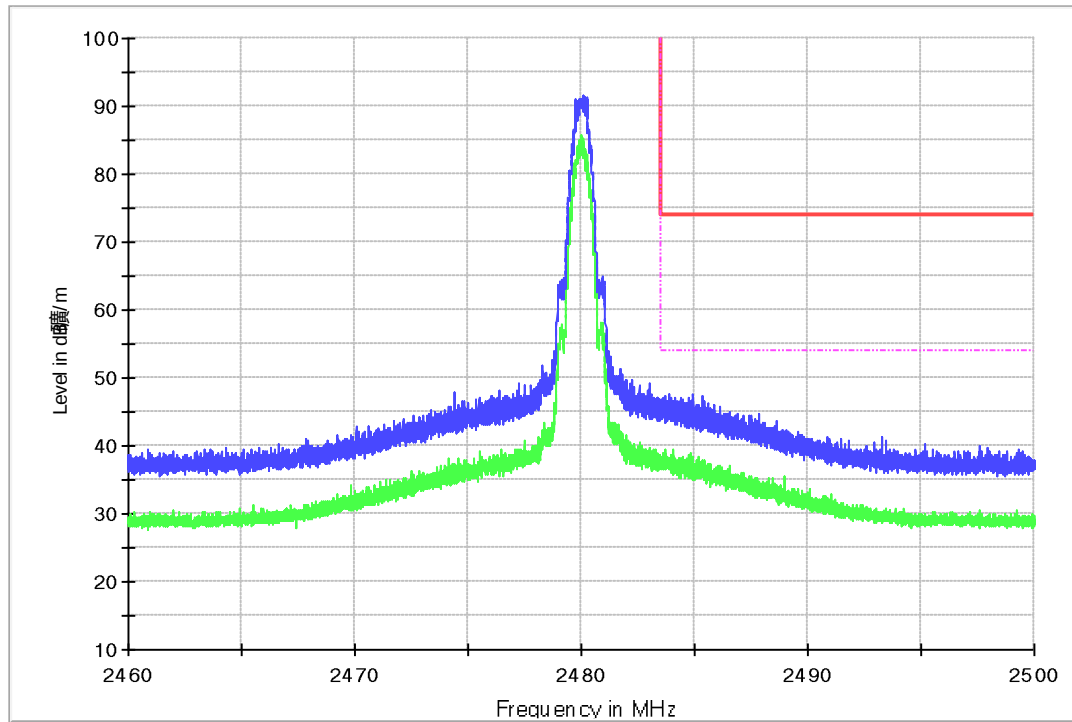
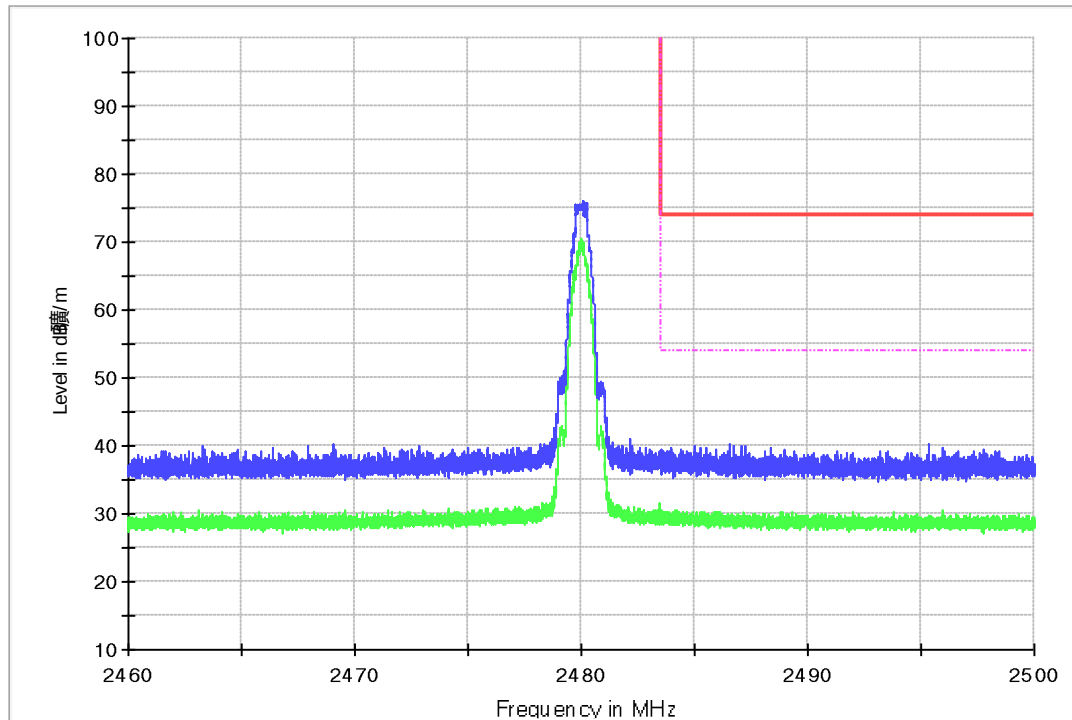


Figure 11: Radiated Band-Edge, TM3, V

2470~2500 BE_1-18GHz_HL050_FSV40_Pre



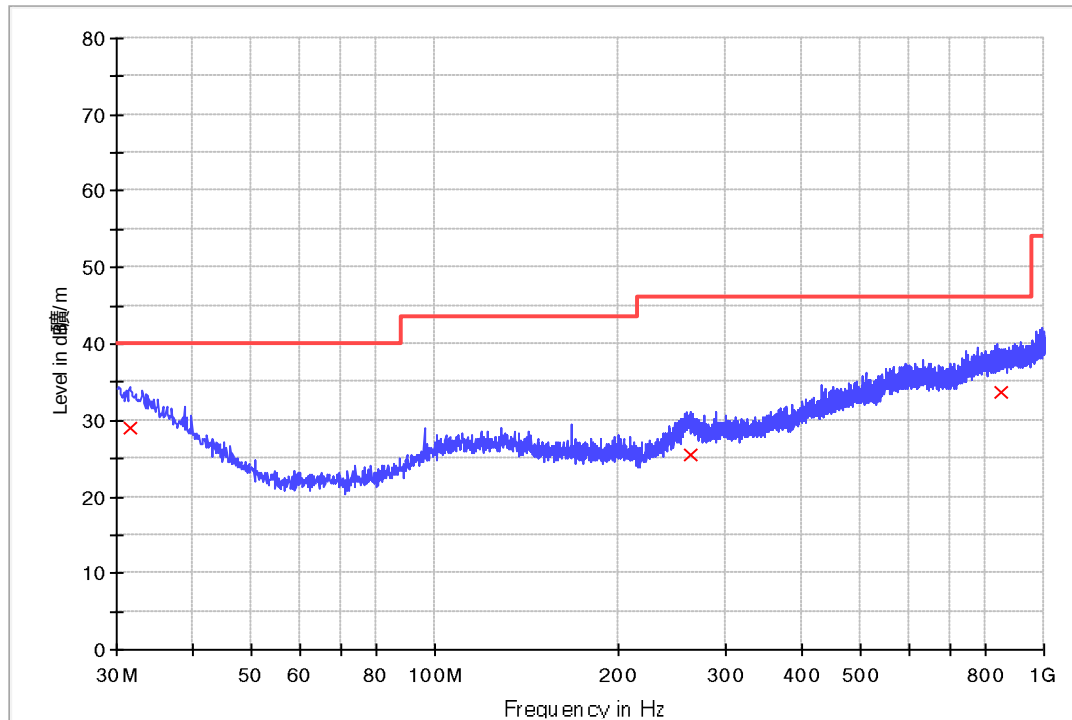
5.3.2 Radiated Spurious Emission

RESULT:**Pass**

Date of testing	:	2022-03-22~2022-03-24
Ambient temperature	:	23.2°C
Relative humidity	:	52.1%
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 3.3V
Test modes applied	:	TM1 to TM3

Figure 12: Radiated Spurious Emission, TM1, 30MHz to 1GHz, H

_Radiated emission (30M-1GHz) 1 Range_FCC

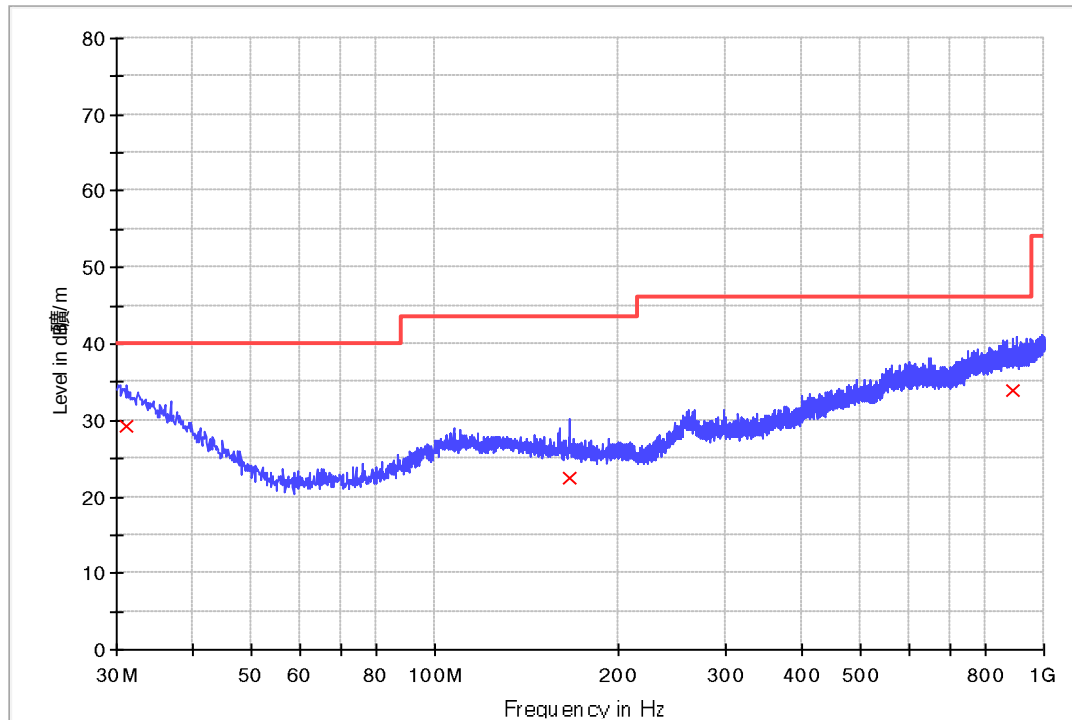


Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.576250	29.1	H	24.7	10.9	40.0
263.042500	25.4	H	20.7	20.6	46.0
852.196250	33.8	H	27.9	12.2	46.0

Figure 13: Radiated Spurious Emission, TM1, 30MHz to 1GHz, V

_Radiated emission (30M-1GHz) 1 Range_FCC

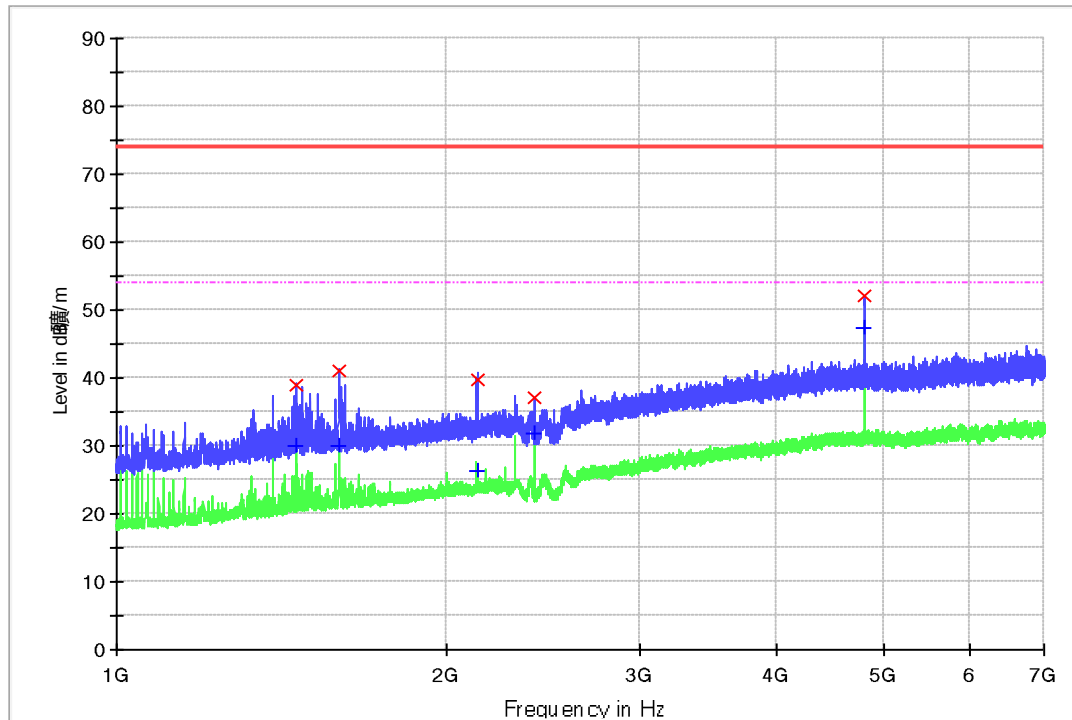


Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
31.212500	29.3	V	24.8	10.7	40.0
166.163750	22.6	V	16.5	20.9	43.5
886.995000	33.9	V	28.0	12.1	46.0

Figure 14: Radiated Spurious Emission, TM1, 1GHz to 7GHz, H

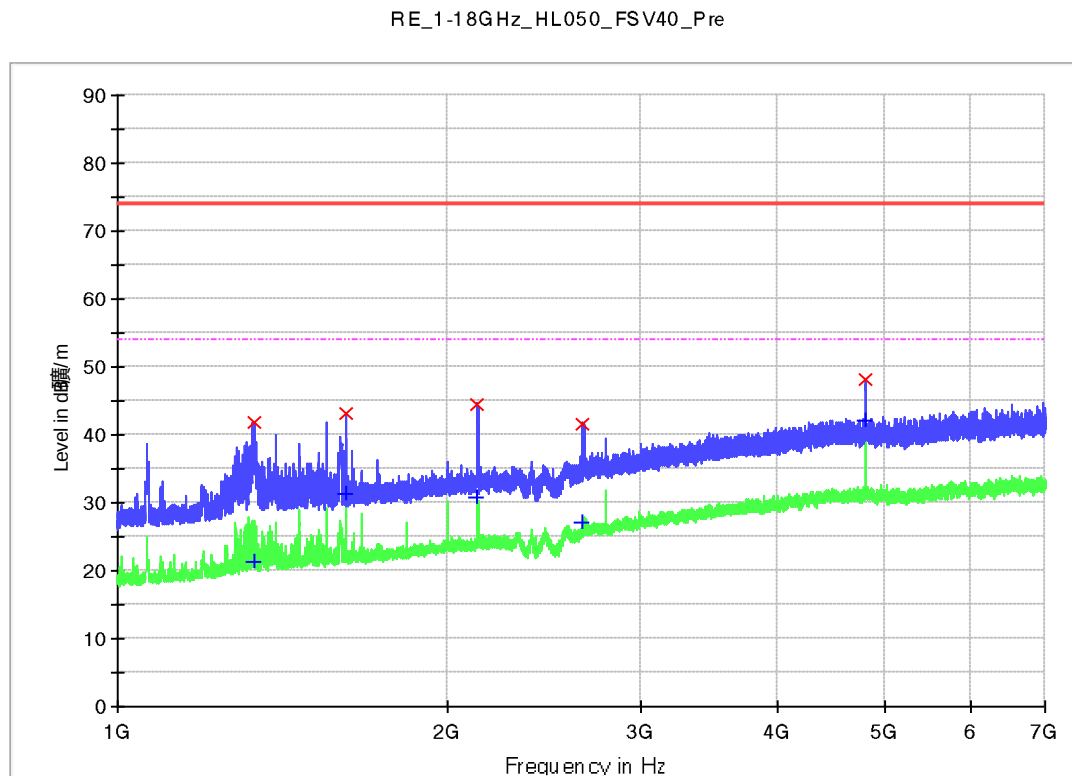
RE_1-18GHz_HL050_FSV40_Pre


Limit and Margin PK

Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1456.000000	39.0	H	-19.2	35.0	74.0
1593.062500	41.1	H	-18.4	32.9	74.0
2131.000000	39.8	H	-15.7	34.2	74.0
2402.125000	37.0	H	-14.4	37.0	74.0
4803.437500	52.1	H	-6.5	21.9	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Pol	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
1456.000000	30.1	H	-19.2	23.9	54.0
1593.062500	30.1	H	-18.4	23.9	54.0
2131.000000	26.3	H	-15.7	27.7	54.0
2402.125000	31.8	H	-14.4	22.2	54.0
4803.437500	47.4	H	-6.5	6.6	54.0

Figure 15: Radiated Spurious Emission, TM1, 1GHz to 7GHz, V


Limit and Margin PK

Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1330.937500	41.8	V	-20.2	32.2	74.0
1612.375000	43.1	V	-18.3	30.9	74.0
2127.625000	44.6	V	-15.8	29.4	74.0
2654.500000	41.7	V	-13.3	32.3	74.0
4804.562500	48.1	V	-6.5	25.9	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Pol	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
1330.937500	21.2	V	-20.2	32.8	54.0
1612.375000	31.3	V	-18.3	22.7	54.0
2127.625000	30.7	V	-15.8	23.3	54.0
2654.500000	27.1	V	-13.3	26.9	54.0
4804.562500	42.0	V	-6.5	12.0	54.0

Figure 16: Radiated Spurious Emission, TM1, 7GHz to 18GHz, H

RE_1-18GHz_HL050_FSV40_Pre

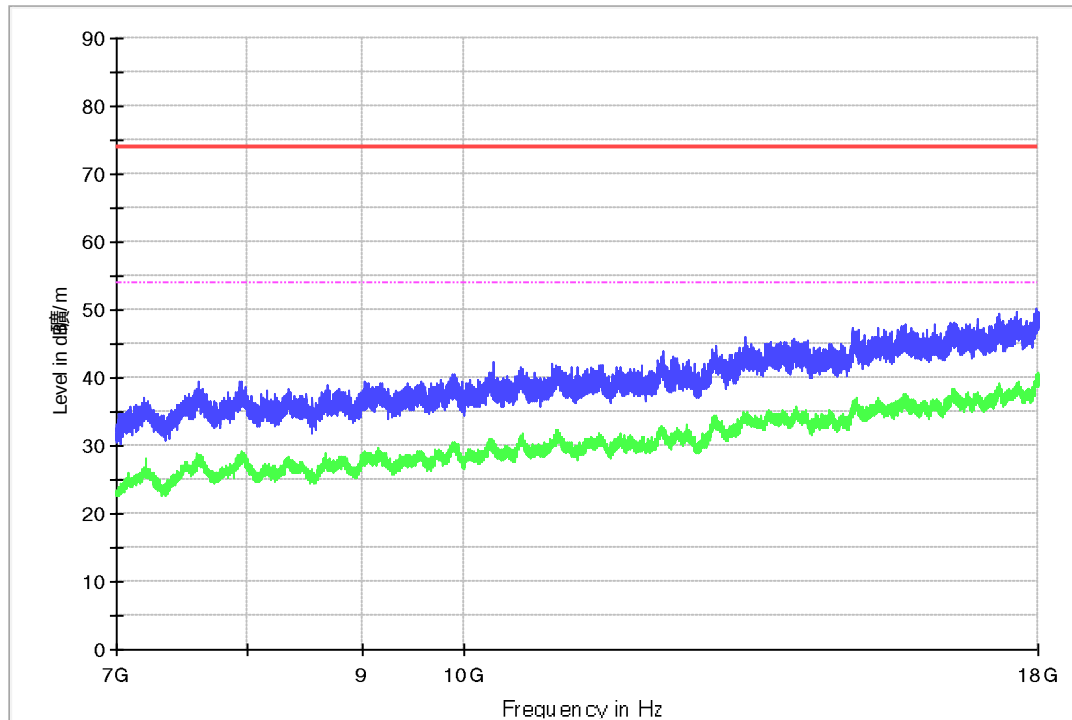


Figure 17: Radiated Spurious Emission, TM1, 7GHz to 18GHz, V

RE_1-18GHz_HL050_FSV40_Pre

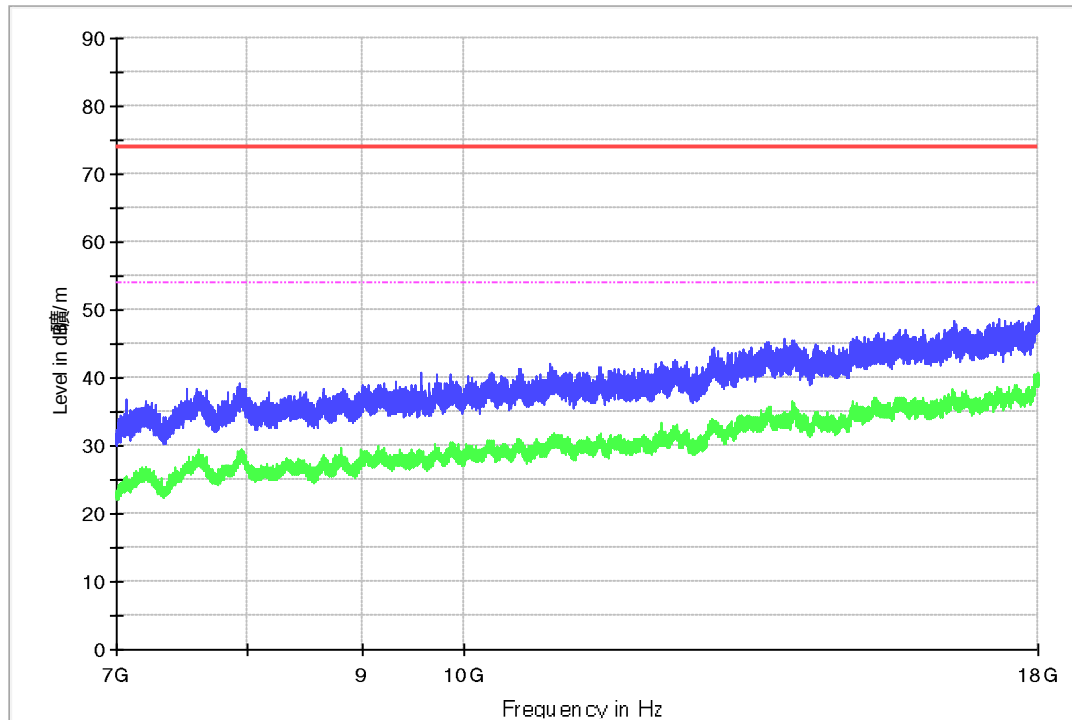


Figure 18: Radiated Spurious Emission, TM1, 18GHz to 25GHz, H

RE_18-40GHz_9170_FSV40_Pre

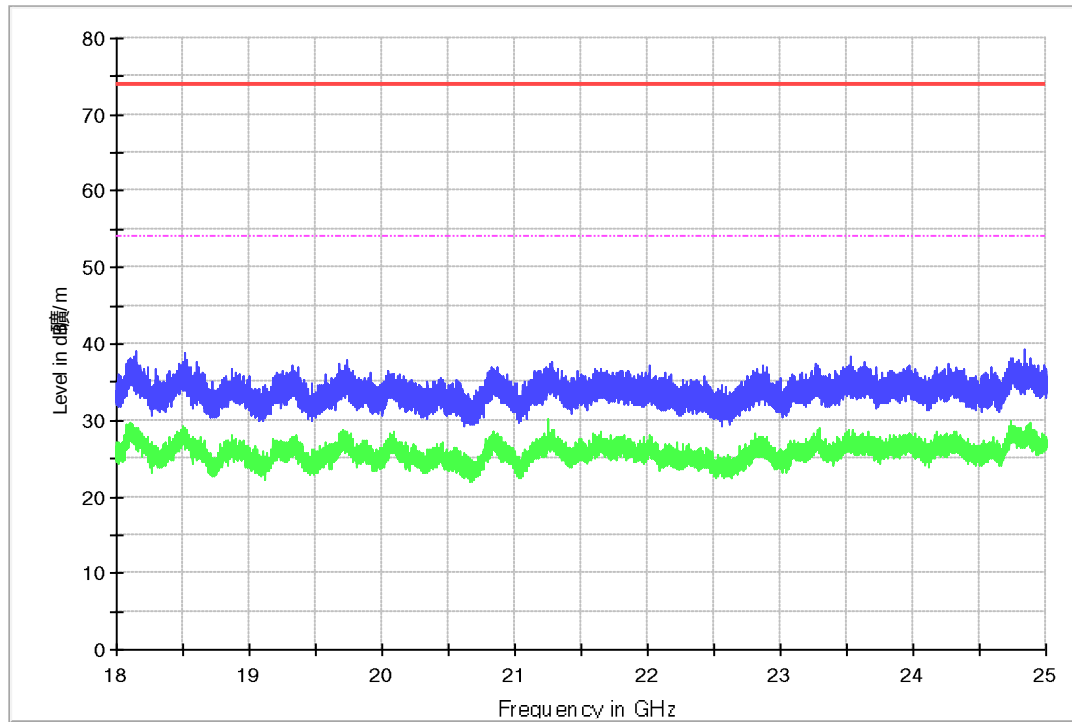


Figure 19: Radiated Spurious Emission, TM1, 18GHz to 25GHz, V

RE_18-40GHz_9170_FSV40_Pre

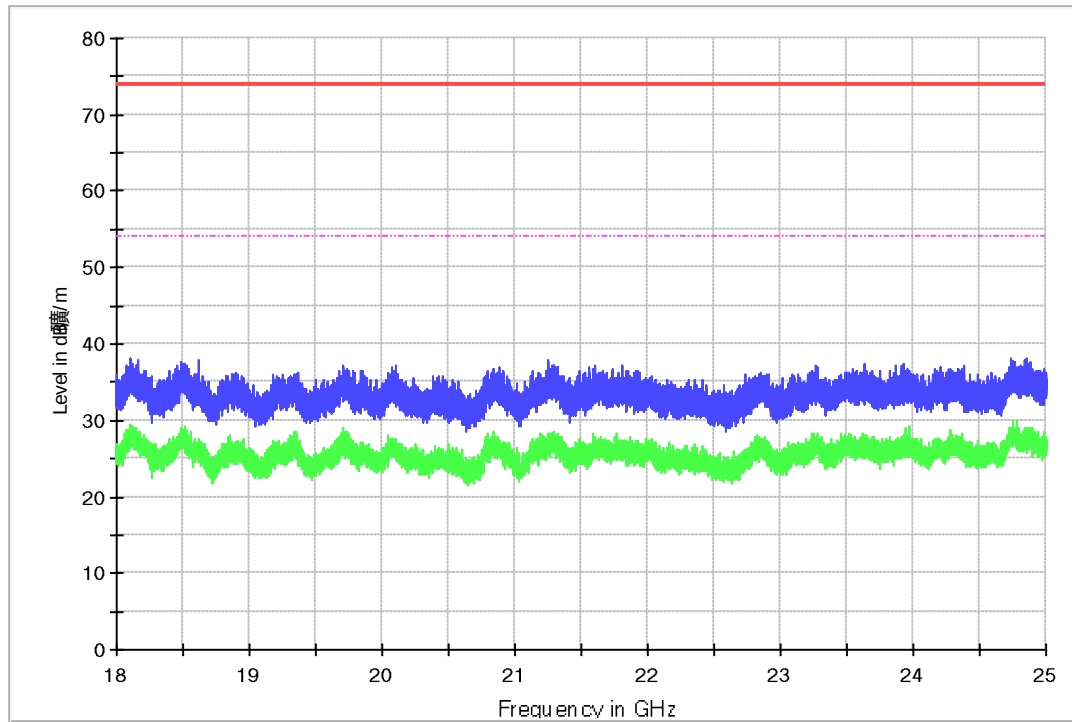
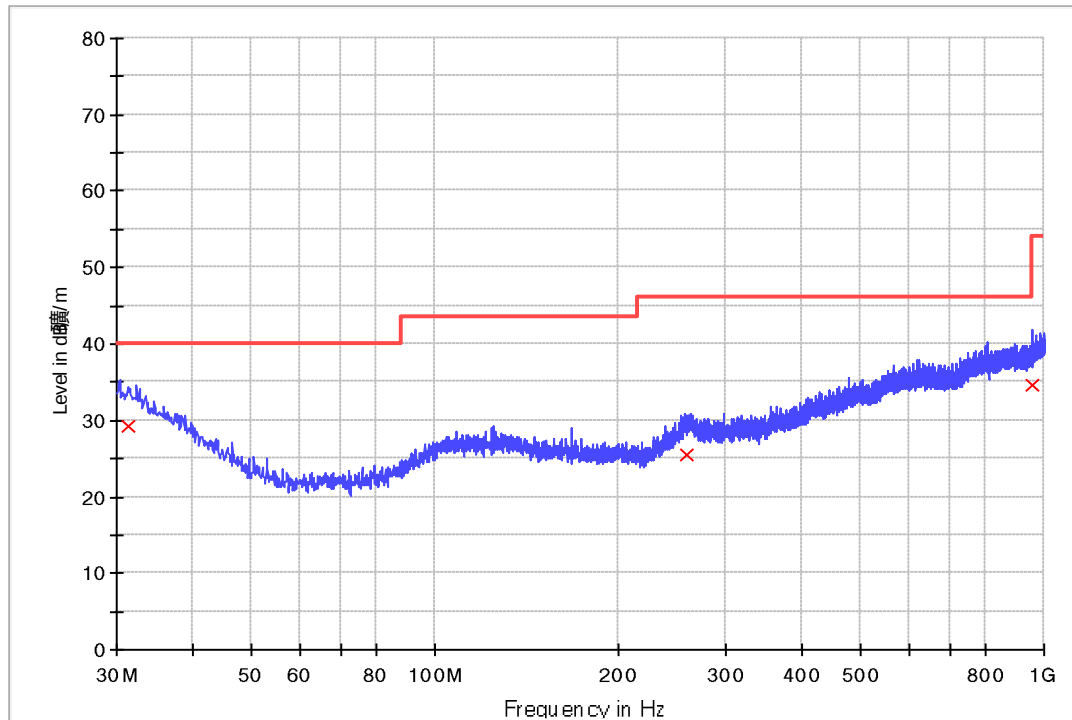


Figure 20: Radiated Spurious Emission, TM2, 30MHz to 1GHz, H

_Radiated emission (30M-1GHz) 1 Range_FCC

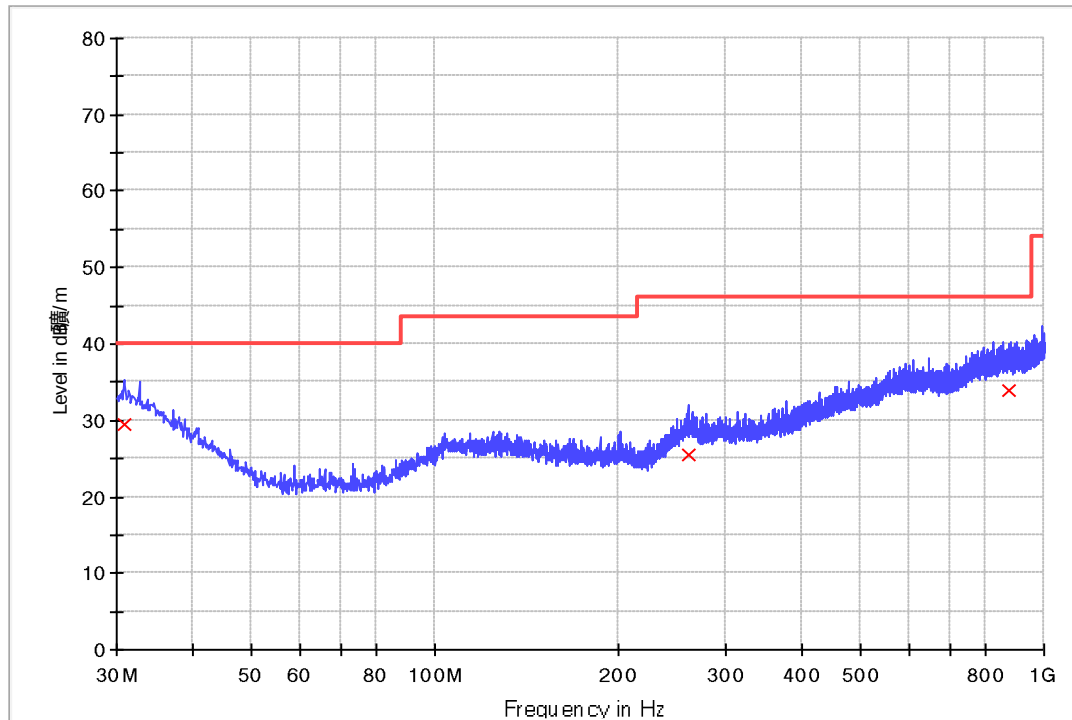


Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
31.333750	29.2	H	24.8	10.8	40.0
258.920000	25.4	H	20.5	20.6	46.0
959.866250	34.6	H	28.5	11.4	46.0

Figure 21: Radiated Spurious Emission, TM2, 30MHz to 1GHz, V

_Radiated emission (30M-1GHz) 1 Range_FCC

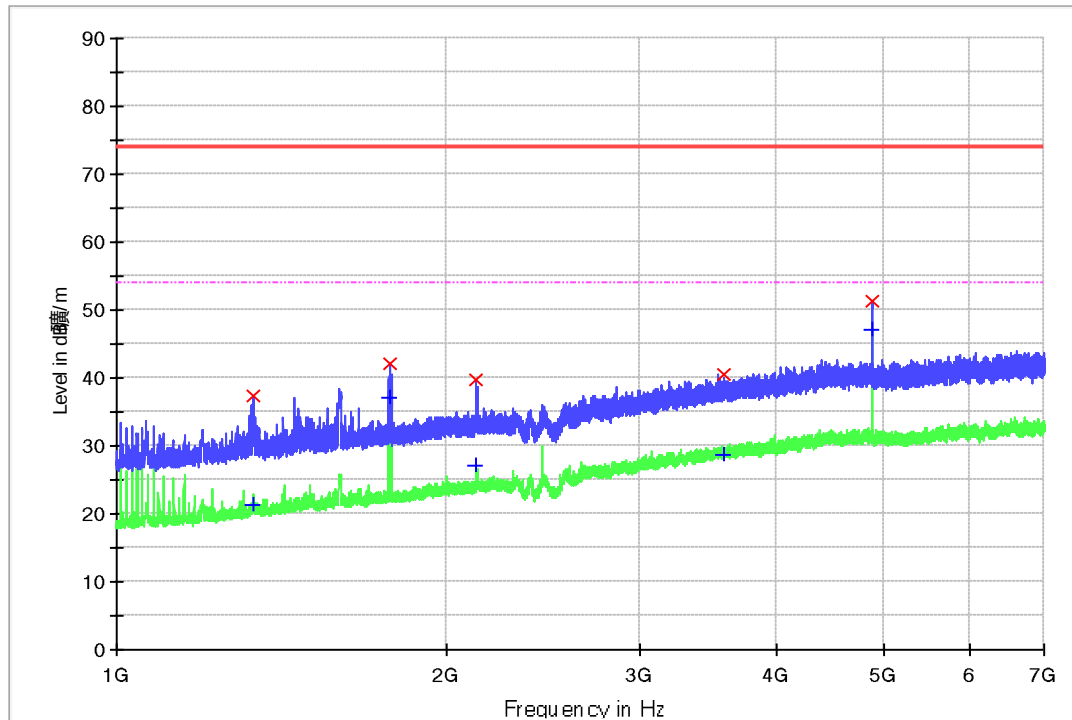


Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.848750	29.4	V	25.0	10.6	40.0
260.132500	25.5	V	20.7	20.5	46.0
875.718750	34.0	V	28.0	12.0	46.0

Figure 22: Radiated Spurious Emission, TM2, 1GHz to 7GHz, H

RE_1-18GHz_HL050_FSV40_Pre


Limit and Margin PK

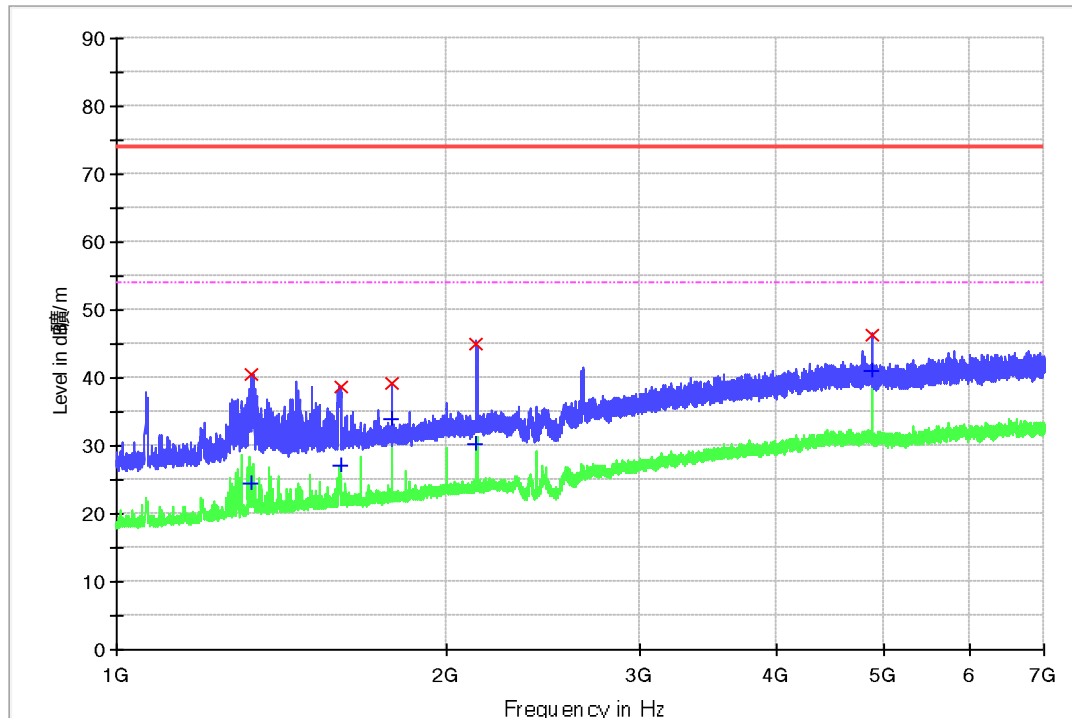
Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1331.875000	37.4	H	-20.2	36.6	74.0
1771.375000	42.1	H	-17.5	31.9	74.0
2122.937500	39.7	H	-15.8	34.3	74.0
3568.750000	40.4	H	-9.3	33.6	74.0
4880.687500	51.2	H	-6.5	22.8	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Pol	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
1331.875000	21.3	H	-20.2	32.7	54.0
1771.375000	37.1	H	-17.5	16.9	54.0
2122.937500	27.0	H	-15.8	27.0	54.0
3568.750000	28.7	H	-9.3	25.3	54.0
4880.687500	47.2	H	-6.5	6.8	54.0

Figure 23: Radiated Spurious Emission, TM2, 1GHz to 7GHz, V

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Limit and Margin PK

Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1328.312500	40.6	V	-20.2	33.4	74.0
1598.687500	38.6	V	-18.3	35.4	74.0
1780.000000	39.3	V	-17.5	34.7	74.0
2124.250000	45.1	V	-15.8	28.9	74.0
4879.750000	46.4	V	-6.5	27.6	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Pol	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
1328.312500	24.6	V	-20.2	29.4	54.0
1598.687500	27.0	V	-18.3	27.0	54.0
1780.000000	34.0	V	-17.5	20.0	54.0
2124.250000	30.2	V	-15.8	23.8	54.0
4879.750000	41.1	V	-6.5	12.9	54.0

Figure 24: Radiated Spurious Emission, TM2, 7GHz to 18GHz, H

RE_1-18GHz_HL050_FSV40_Pre

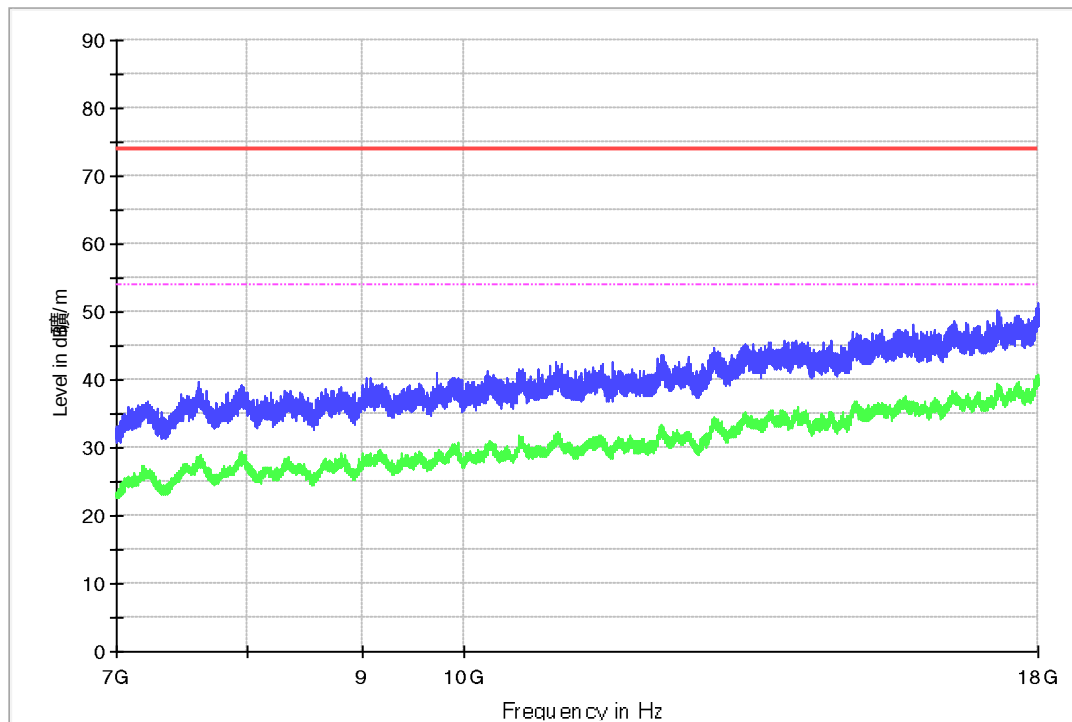


Figure 25: Radiated Spurious Emission, TM2, 7GHz to 18GHz, V

RE_1-18GHz_HL050_FSV40_Pre

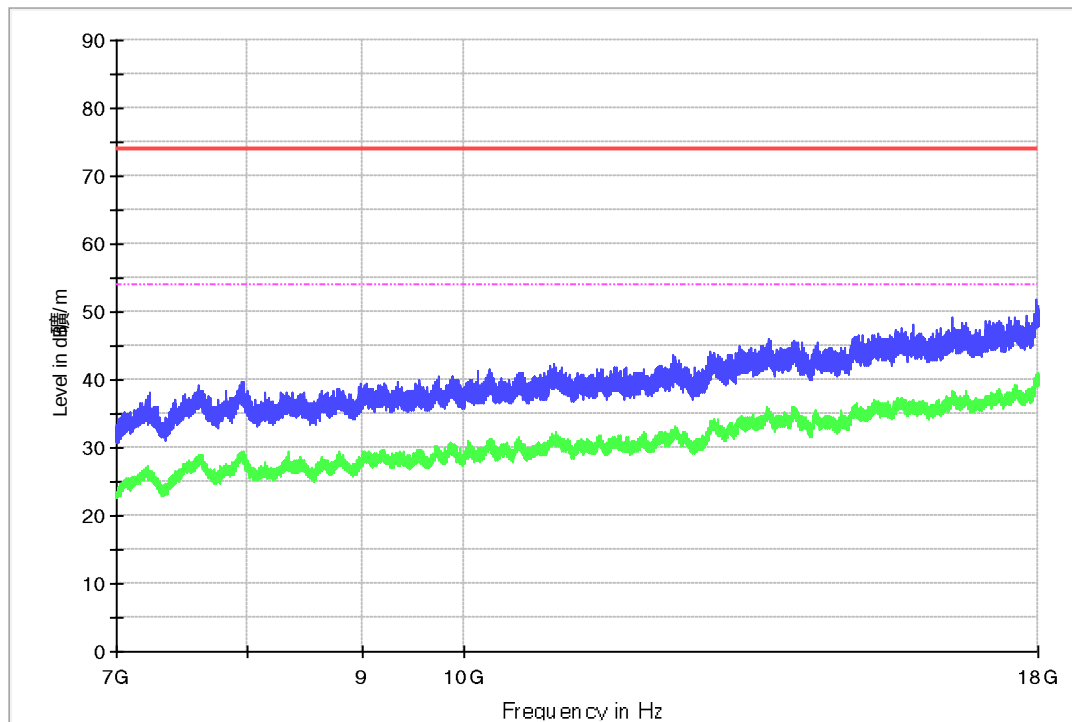


Figure 26: Radiated Spurious Emission, TM2, 18GHz to 25GHz, H

RE_18-40GHz_9170_FSV40_Pre

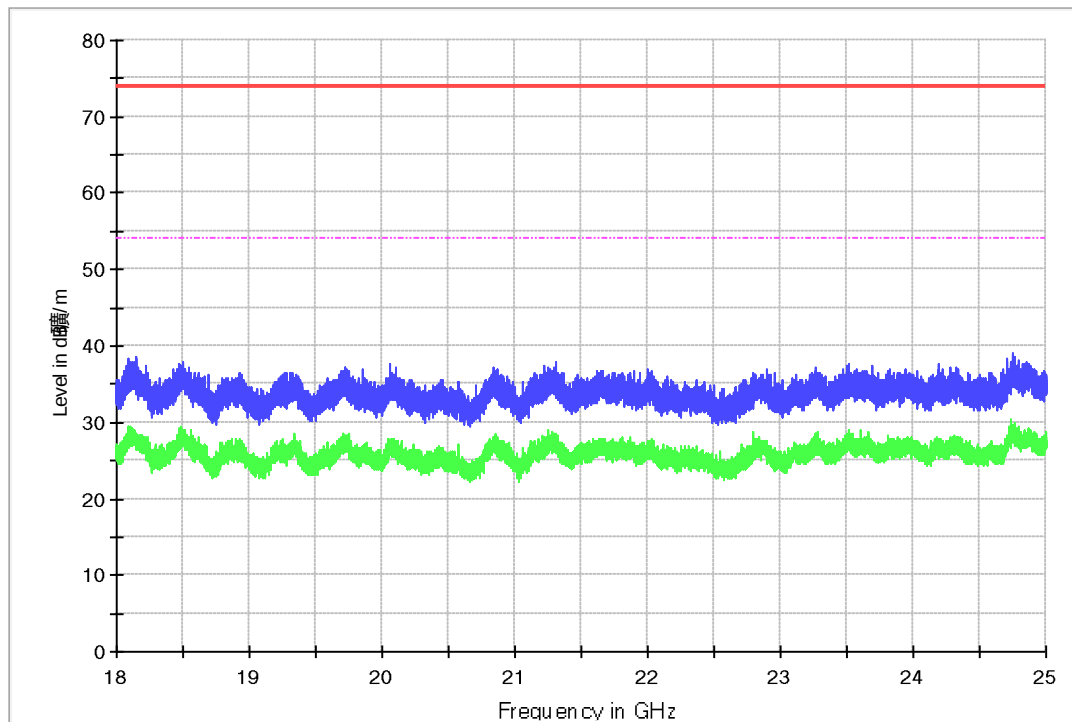


Figure 27: Radiated Spurious Emission, TM2, 18GHz to 25GHz, V

RE_18-40GHz_9170_FSV40_Pre

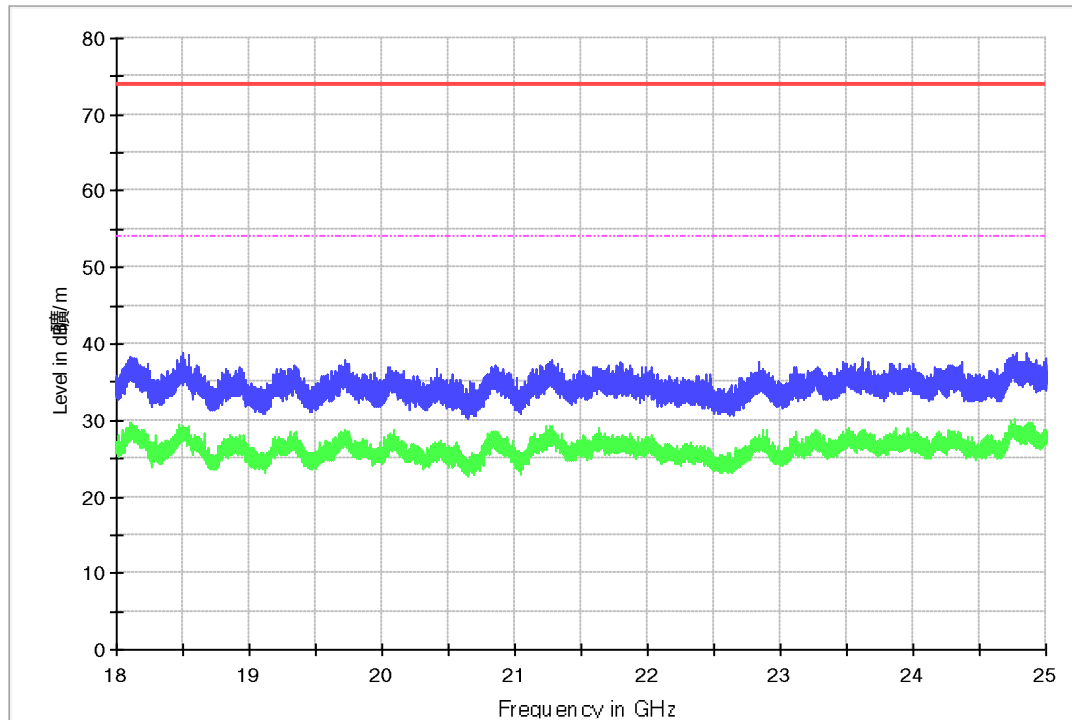
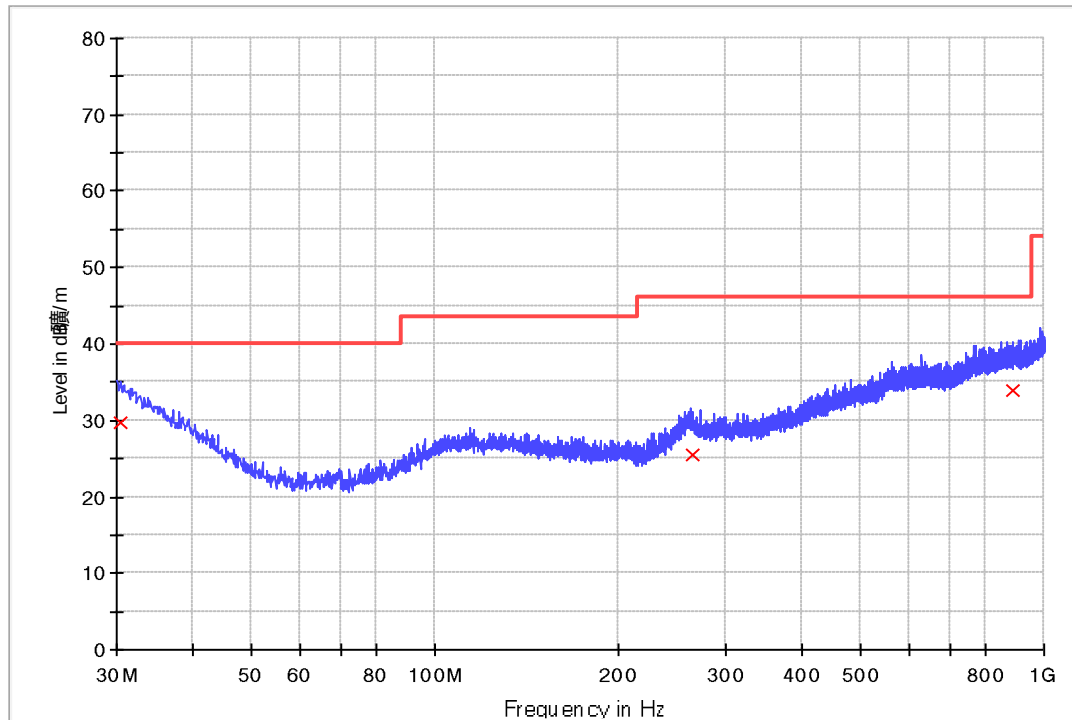


Figure 28: Radiated Spurious Emission, TM3, 30MHz to 1GHz, H

_Radiated emission (30M-1GHz) 1 Range_FCC

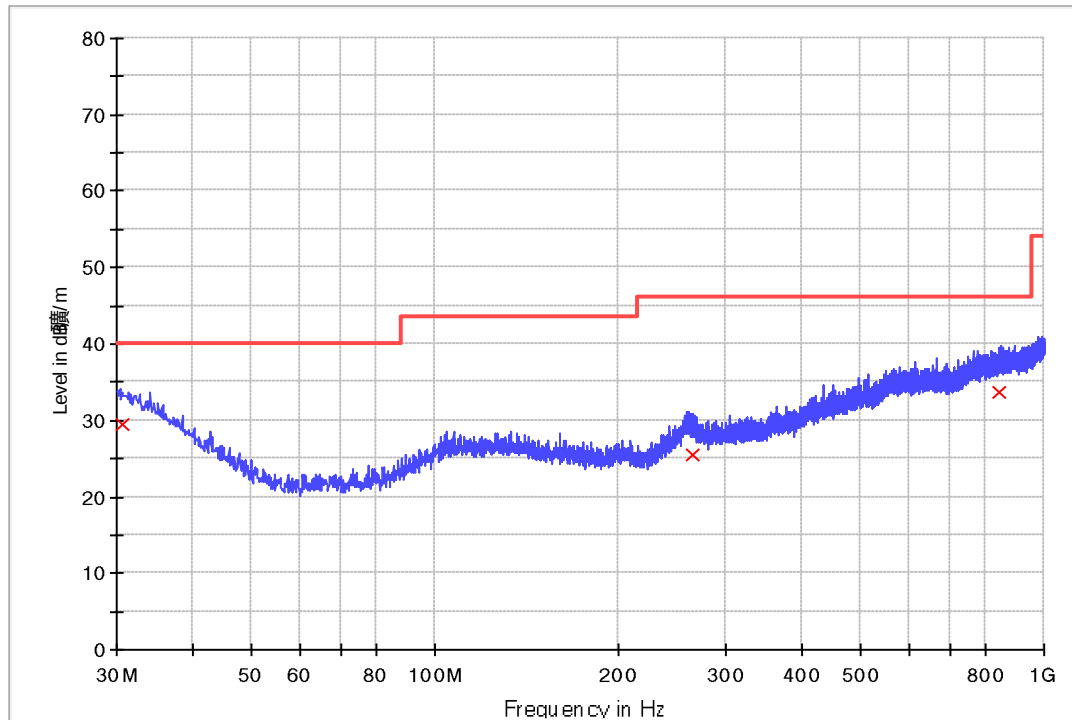


Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.485000	29.6	H	25.2	10.4	40.0
264.618750	25.4	H	20.7	20.6	46.0
888.450000	33.9	H	28.0	12.1	46.0

Figure 29: Radiated Spurious Emission, TM3, 30MHz to 1GHz, V

_Radiated emission (30M-1GHz) 1 Range_FCC

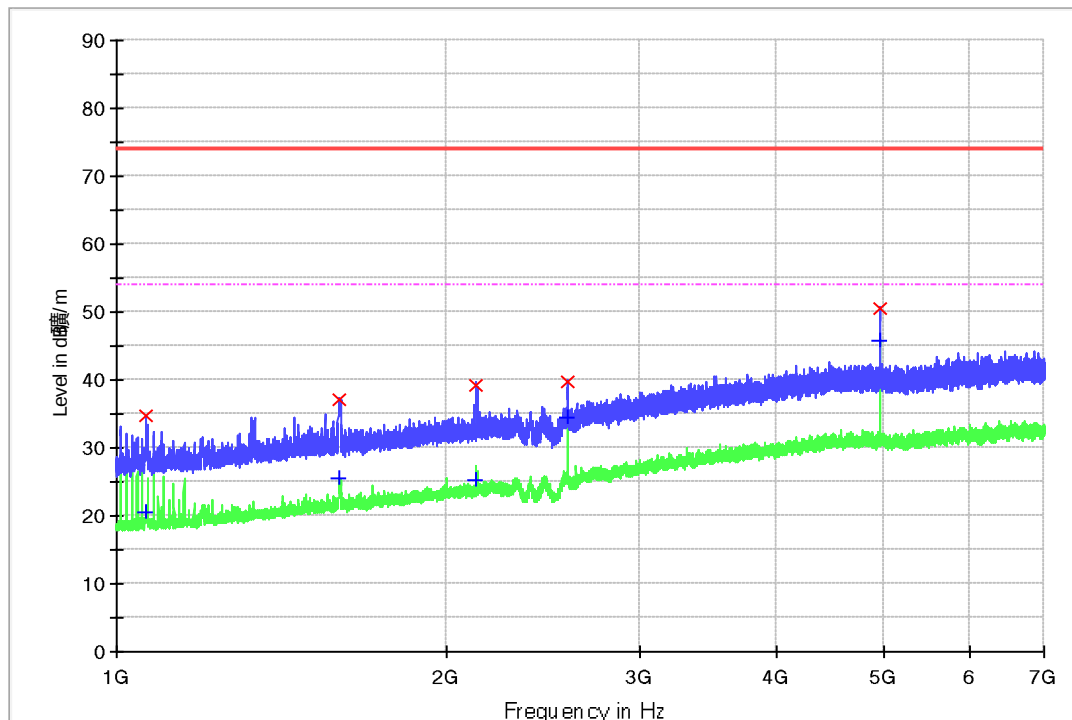


Limit and Margin

Frequency (MHz)	QuasiPeak (dBμV/m)	Pol	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV/m)
30.606250	29.6	V	25.1	10.4	40.0
264.982500	25.4	V	20.7	20.6	46.0
841.526250	33.6	V	27.7	12.4	46.0

Figure 30: Radiated Spurious Emission, TM3, 1GHz to 7GHz, H

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Limit and Margin PK

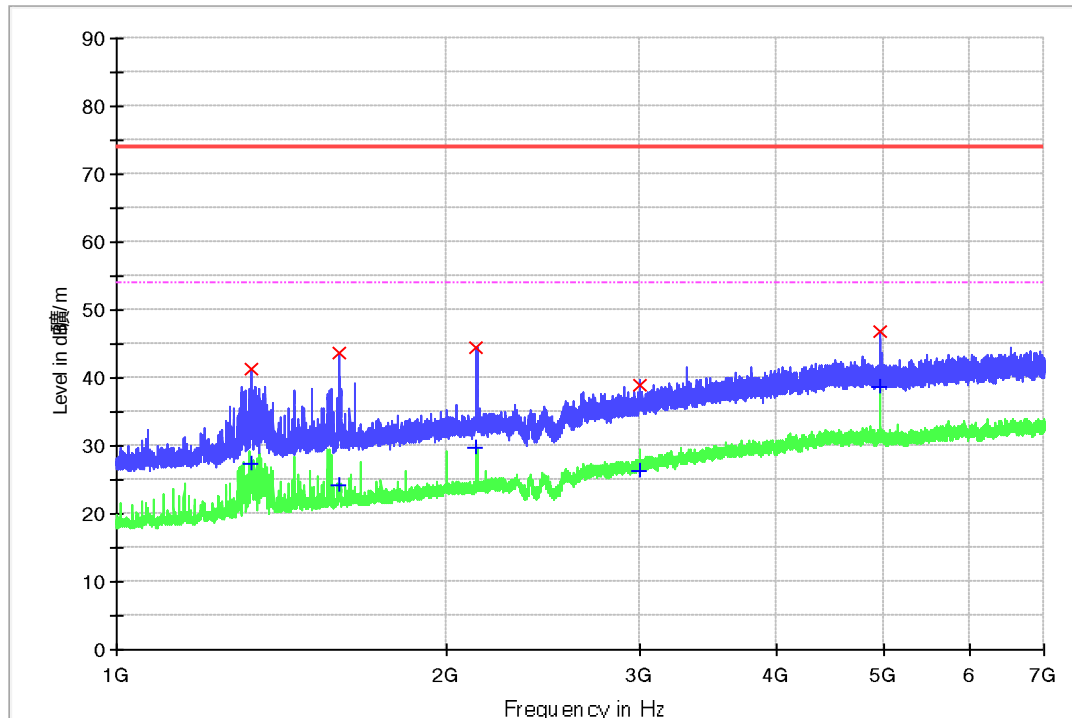
Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1063.375000	34.8	H	-22.1	39.2	74.0
1596.625000	37.2	H	-18.3	36.8	74.0
2123.687500	39.3	H	-15.8	34.7	74.0
2576.125000	39.7	H	-13.7	34.3	74.0
4959.437500	50.6	H	-6.6	23.4	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Pol	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
1063.375000	20.5	H	-22.1	33.5	54.0
1596.625000	25.5	H	-18.3	28.5	54.0
2123.687500	25.1	H	-15.8	28.9	54.0
2576.125000	34.5	H	-13.7	19.5	54.0
4959.437500	45.8	H	-6.6	8.2	54.0

Figure 31: Radiated Spurious Emission, TM3, 1GHz to 7GHz, V

RE_1-18GHz_HL050_FSV40_Pre


Limit and Margin PK

Frequency (MHz)	MaxPeak (dBμV/m)	Pol	Corr. (dB)	Margin - PK+ (dB)	Limit - PK+ (dBμV/m)
1330.187500	41.6	V	-20.2	32.4	74.0
1598.125000	39.1	V	-18.3	34.9	74.0
2124.062500	44.7	V	-15.8	29.3	74.0
2658.625000	41.5	V	-13.3	32.5	74.0
4959.625000	45.4	V	-6.6	28.6	74.0

Limit and Margin AV

Frequency (MHz)	Average (dBμV/m)	Pol	Corr. (dB)	Margin - AVG (dB)	Limit - AVG (dBμV/m)
1330.187500	28.4	V	-20.2	25.6	54.0
1598.125000	21.3	V	-18.3	32.7	54.0
2124.062500	30.6	V	-15.8	23.4	54.0
2658.625000	25.7	V	-13.3	28.3	54.0
4959.625000	39.3	V	-6.6	14.7	54.0

Figure 32: Radiated Spurious Emission, TM3, 7GHz to 18GHz, H

RE_1-18GHz_HL050_FSV40_Pre

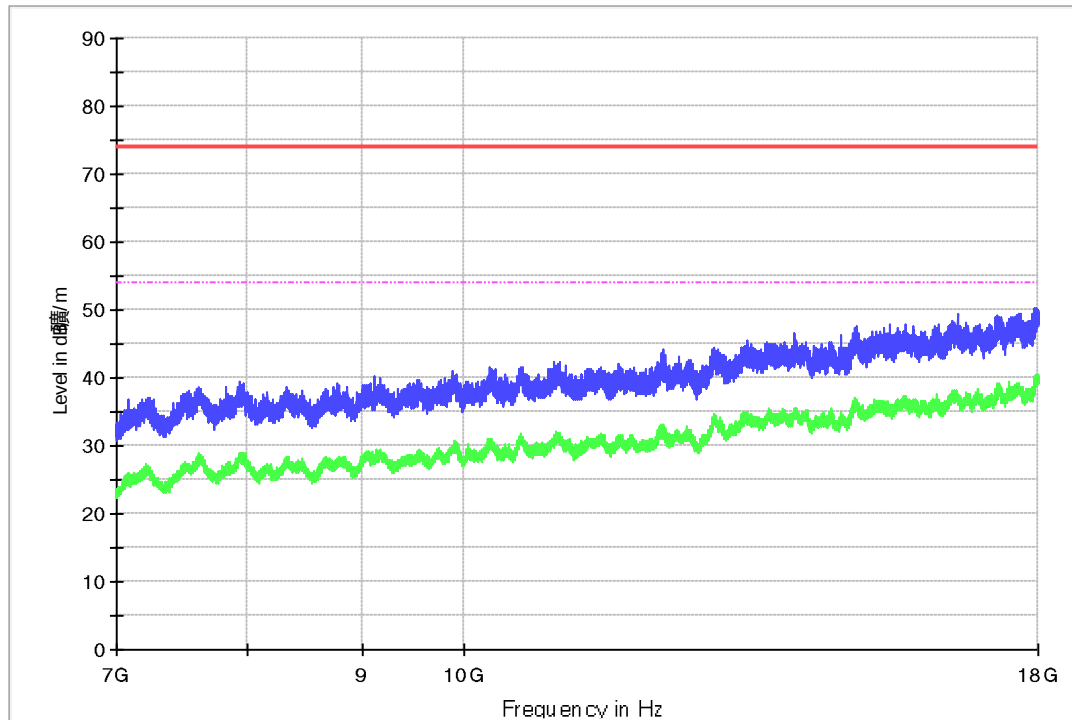


Figure 33: Radiated Spurious Emission, TM3, 7GHz to 18GHz, V

RE_1-18GHz_HL050_FSV40_Pre

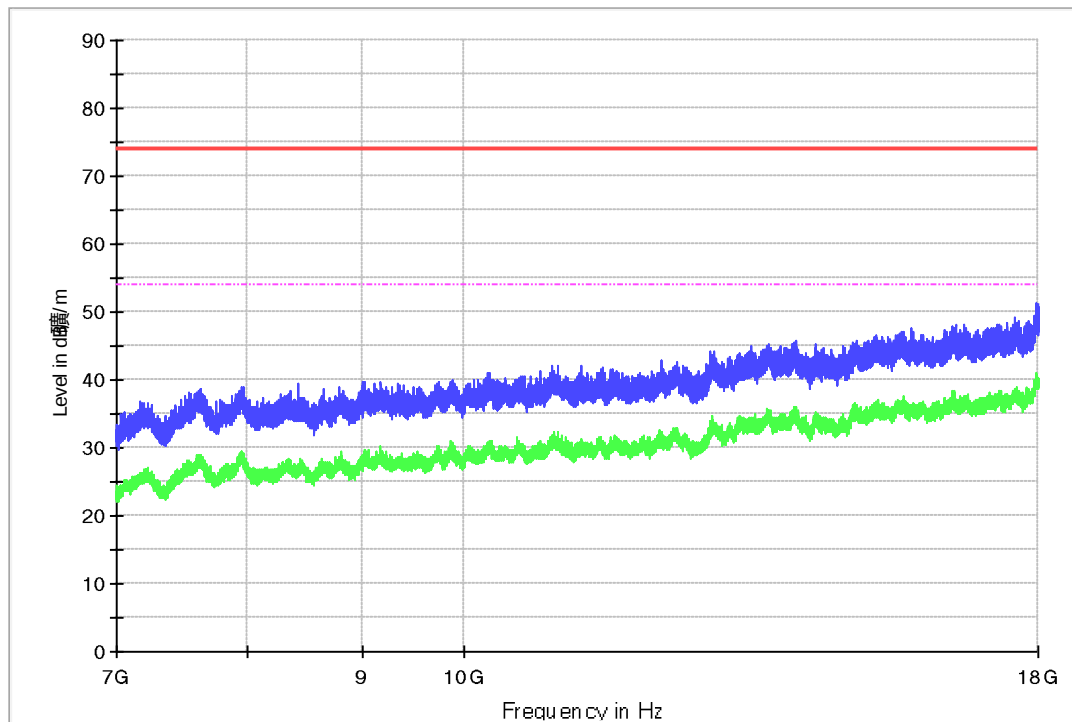


Figure 34: Radiated Spurious Emission, TM3, 18GHz to 25GHz, H

RE_18-40GHz_9170_FSV40_Pre

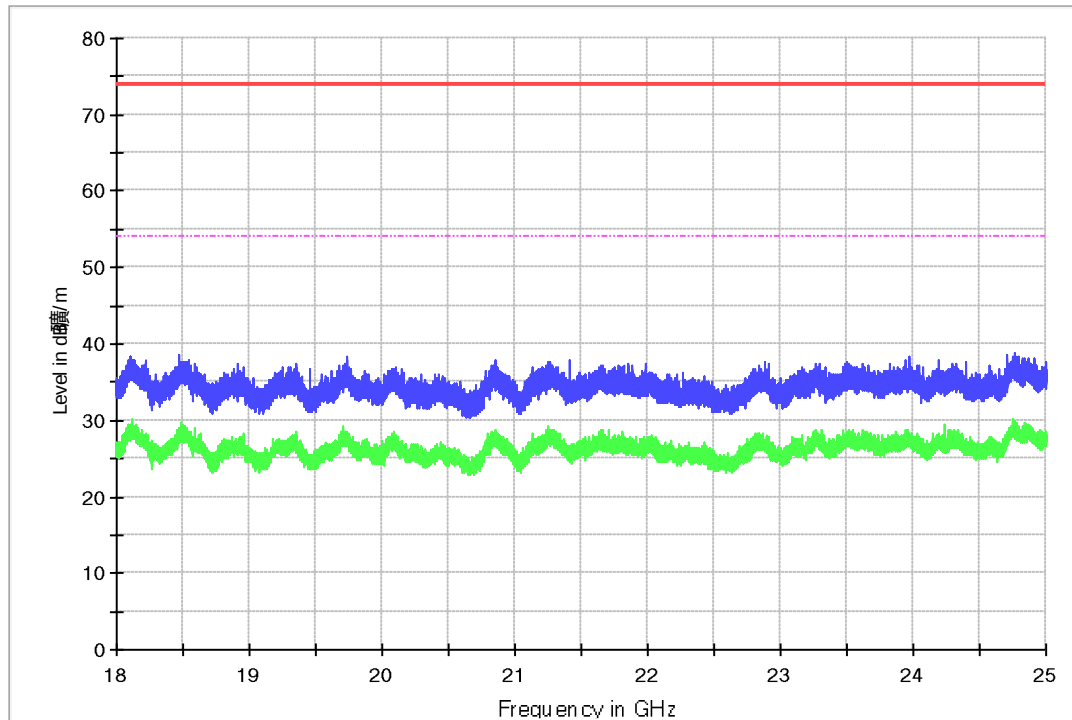
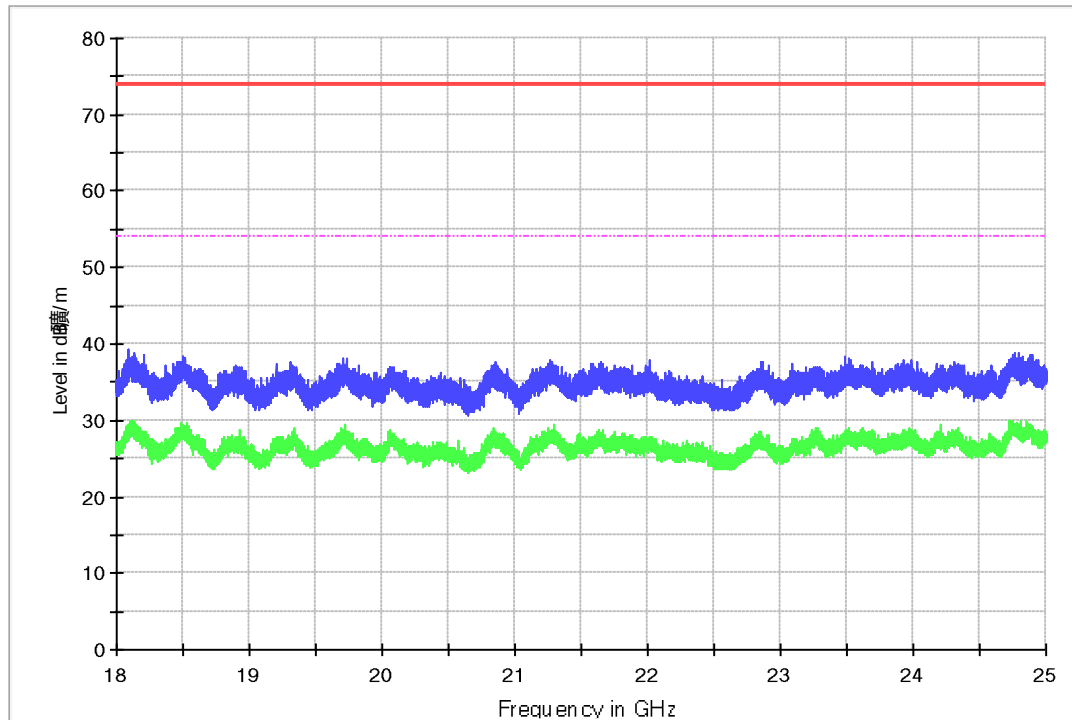


Figure 35: Radiated Spurious Emission, TM3, 18GHz to 25GHz, V

RE_18-40GHz_9170_FSV40_Pre



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