

Prüfbericht-Nr.: <i>Test report no.:</i>	CN25VL1E 001	Auftrags-Nr.: <i>Order no.:</i>	326091769	Seite 1 von 89 <i>Page 1 of 89</i>
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	1288983	Auftragsdatum: <i>Order date:</i>	2025-01-16	
Auftraggeber: <i>Client:</i>	IKEA of Sweden AB Box 702, SE-343 81 Älmhult, Sweden			
Prüfgegenstand: <i>Test item:</i>	SOLSKYDD portable Bluetooth speaker 19			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	E2504			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	FCC CFR47 Part 15, Subpart C Section 15.247 RSS-Gen Issue 5, Amendment 2, February 2021 RSS-247 Issue 3, August 2023 ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024			
Wareneingangsdatum: <i>Date of sample receipt:</i>	2025-03-07	Refer to photo document.		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003940720-008~010			
Prüfzeitraum: <i>Testing period:</i>	2025-03-21 ~ 2025-05-15			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shanghai) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	<input checked="" type="checkbox"/> <u>Hongfei Wu</u>	genehmigt von: <i>authorized by:</i>	<input checked="" type="checkbox"/> <u>Yanli Fan</u>	
Datum: <i>Date:</i>	2025-07-15 <small>Signed by: Hongfei Wu</small>	Datum: <i>Date:</i>	2025-07-15 <small>Signed by: Yanli Fan</small>	
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / Other:	FCC ID: FHO-E2504 IC: 10912A-E2504 HVIN: E2504 PMN: SOLSKYDD portable Bluetooth speaker 19			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
<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 * 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>				
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Anmerkungen
Remarks

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4	<p>Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2023, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</p> <p><i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2023, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i></p>

TEST SUMMARY

5.1.1 ANTENNA REQUIREMENT*RESULT: Pass***5.1.2 20dB & 99% BANDWIDTH***RESULT: Pass***5.1.3 PEAK OUTPUT POWER***RESULT: Pass***5.1.4 FREQUENCY SEPARATION***RESULT: Pass***5.1.5 NUMBER OF HOPPING FREQUENCY***RESULT: Pass***5.1.6 TIME OF OCCUPANCY***RESULT: Pass***5.1.7 CONDUCTED BAND EDGE AND OUT-OF BAND EMISSIONS***RESULT: Pass***5.2.1 CONDUCTED EMISSION***RESULT: Pass***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

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

Appendix A: Photographs of the Test Set-up

2. Test Sites

2.1 Test Facilities

TÜV Rheinland (Shanghai) Co., Ltd.
Workshop14, North Half of Workshop 10 and Workshop 16, Pingqian (Taicang) Modern Industrial Park, No.525, Yuewang Lingang South Road, Shaxi, Taicang, Jiangsu, 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 930979.

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 33038.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Equip.	Description	Model	Manufacturer	Due Date DD.MM.YYYY
EMC-C-196	Wireless connectivity tester	CMW270	Rohde & Schwarz	23.08.2025
EMC-C-302	Signal generator	SMB100B (6 GHz)	Rohde & Schwarz	10.12.2025
EMC-C-303	Vector Signal generator	SMW200A	Rohde & Schwarz	10.12.2025
EMC-C-304	OSP	OSP-B157W8	Rohde & Schwarz	10.12.2025
EMC-C-161	Spectrum analyser	FSV40	Rohde&Schwarz	15.07.2025
EMC-C-018	Double ridged horn antenna	BBHA 9120 D	Schwarzbeck	24.03.2026
EMC-C-066	EMI test receiver	ESCI	Rohde&Schwarz	27.10.2025
EMC-C-068	Broadband horn antenna	BBHA 9170	Schwarzbeck	18.06.2028
EMC-C-155	BiLog antenna	CBL 6112D	Teseq	24.03.2026
EMC-C-175	Preamplifier	EMC051845SE	EMCI Taiwan	24.07.2025
EMC-C-001	3 m semi-anechoic chamber	SAC3	Frankonia	03.12.2026
EMC-C-141	Shielded enclosure	10.055x3.605x3.000	Frankonia	08.11.2028
EMC-C-195	EMI test receiver	ESR3	Rohde&Schwarz	03.08.2025
EMC-C-190	Artificial mains network	ENV432	Rohde&Schwarz	11.10.2025
software				
EMC-S-036	RF measurement software	WMS32-WB (11.40.00)	Rohde&Schwarz	NA
EMC-S-032	EMI measurement software	EMC32-E+ (10.60.20)	Rohde&Schwarz	NA
EMC-S-028	EMI measurement software	EMC32-MEB (10.60.20)	Rohde&Schwarz	NA

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	±2.33dB
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 speaker which supports Bluetooth and 2.4GHz proprietary function.

The aim of this report is to evaluate RF performance of Bluetooth of the EUT.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Description of EUT	
Product Name:	SOLSKYDD portable Bluetooth speaker 19
Model No.:	E2504
Operation Voltage:	DC 5V (powered via USB type C) DC 7.2V, Li-ion Rechargeable Battery
Li-ion Rechargeable Battery Model No.:	ICBL7.2-18-B1 ICBL7.2-18-USBC-B1
Test Voltage:	DC 3.3V for RF conducted and radiated test AC 120V, 60Hz for conducted emission test
RF Technical:	1) Bluetooth Classic 2) 2.4 GHz proprietary
Technical Specification of Bluetooth Classic	
Frequency Range:	2402~2480MHz
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type:	PCB Antenna
Antenna Gain:	1.5 dBi (declared by client)

Note:

There are two types of Li-ion Rechargeable Battery that can be used in this product. The difference between the two batteries is that ICBL7.2-18-USBC-B1 has one more USB type C port than ICBL7.2-18-B1.

Therefore, the complete test was performed on E2504 with ICBL7.2-18-B1, and additional testing for conducted emission and radiated spurious emission were performed on E2504 with ICBL7.2-18-USBC-B1.

Table 4: RF Channel List

RF Channel	Frequency [MHz]						
00	2402	20	2422	40	2442	60	2462
01	2403	21	2423	41	2443	61	2463
02	2404	22	2424	42	2444	62	2464
03	2405	23	2425	43	2445	63	2465
04	2406	24	2426	44	2446	64	2466
05	2407	25	2427	45	2447	65	2467
06	2408	26	2428	46	2448	66	2468
07	2409	27	2429	47	2449	67	2469
08	2410	28	2430	48	2450	68	2470
09	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461	/	/

3.3 Independent Operation Modes

Test frequencies are lowest channel: 2402 MHz, middle channel: 2441 MHz, highest channel: 2480 MHz and hopping mode.

The basic operation modes are:
 A. Bluetooth Classic transmitting mode
 B. Radio operating mode

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

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 C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024.

Test Software: Telink BDT, V5.7.4

Table 5: Power parameter value

Mode	Power Parameter Setting Value
BR	8.48
EDR	-0.01

4.3 Special Accessories and Auxiliary Equipment

Table 6: Special Accessories

Accessories	Parameter
RF Cable between the antenna port and test system	Cable loss: 0.5dB

Note: The RfCable used in the test was provided by

- Client
- Test Lab

And the cable loss has been factored in the related test.

Table 7: Auxiliary Equipment

Equipment	Manufacturer	Model Name
Laptop	Lenovo	21AJ-S57N0J

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 8: 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 14 of 89**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:	1.5 dBi

Verdict: PASS

5.1.2 20dB & 99% Bandwidth**RESULT:****Pass**

Date of testing : 2025-05-07
Ambient temperature : 20.4°C
Relative humidity : 50.5%
Atmospheric pressure : 101kPa
Test requirement : FCC Part 15.247(a)(1)
RSS-247 Issue 3, August 2023, Clause 5.1(a)
RSS-Gen Issue 5, Amendment 2, February 2021,
Clause 6.7
Test procedure : ANSI C63.10-2020+Cor. 1-2023+C63.10a-
2024+Errata to C63.10a-2024
Test voltage : DC 3.3V
Test modes applied : A

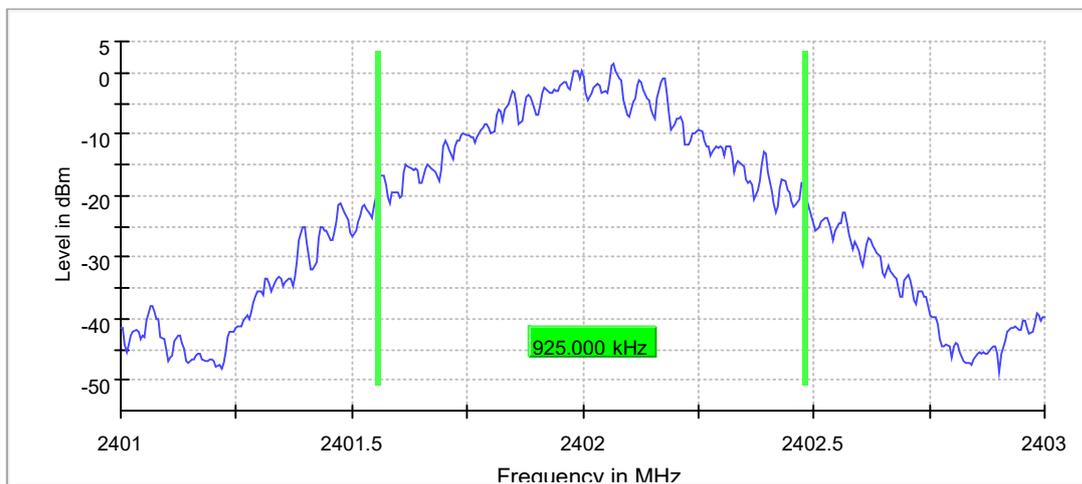
Emission Bandwidth 20 dB (1-DH5, 2402 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.925000	---	---	2401.557500	2402.482500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	1.4	PASS

20 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 μ s	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.38 dB	0.50 dB

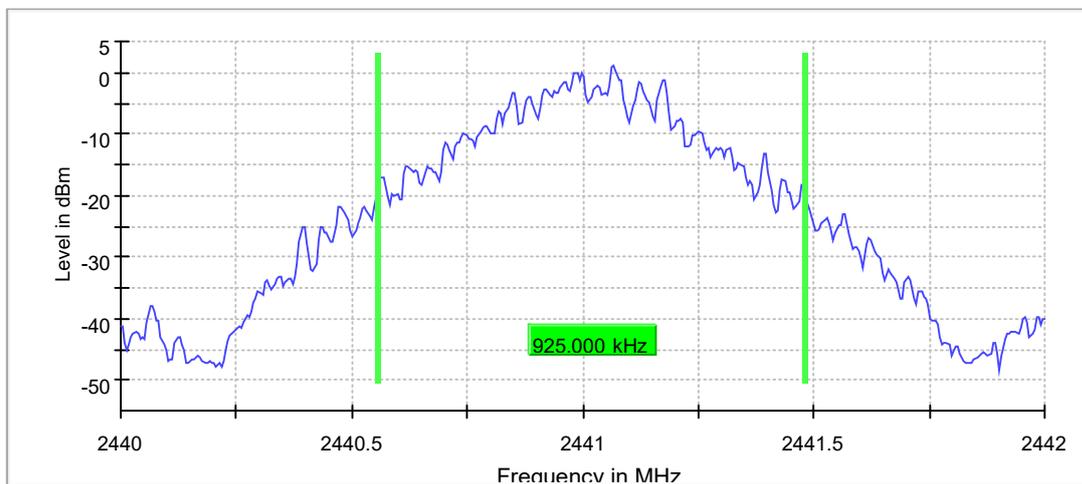
Emission Bandwidth 20 dB (1-DH5, 2441 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	0.925000	---	---	2440.557500	2441.482500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2441.000000	1.1	PASS

20 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.12 dB	0.50 dB

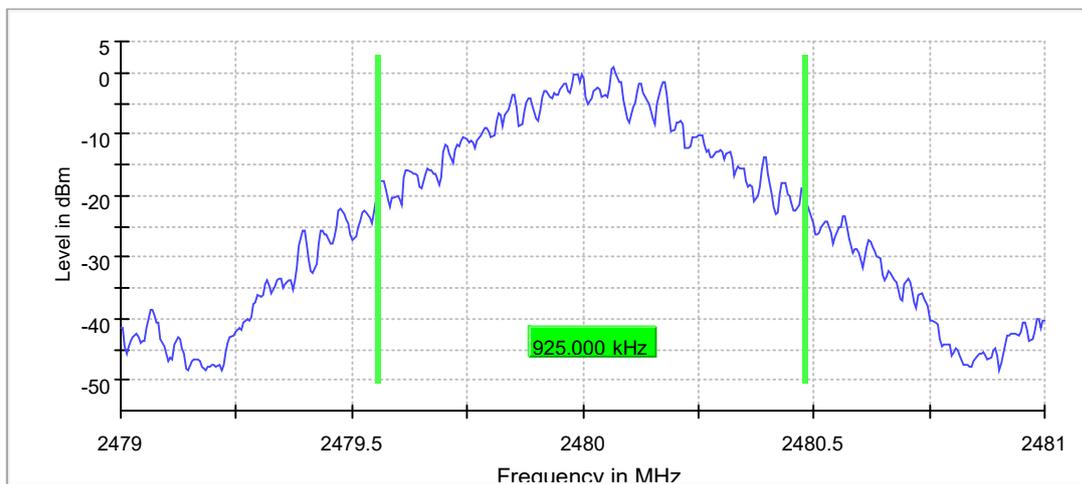
Emission Bandwidth 20 dB (1-DH5, 2480 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.925000	---	---	2479.557500	2480.482500

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	0.8	PASS

20 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.13 dB	0.50 dB

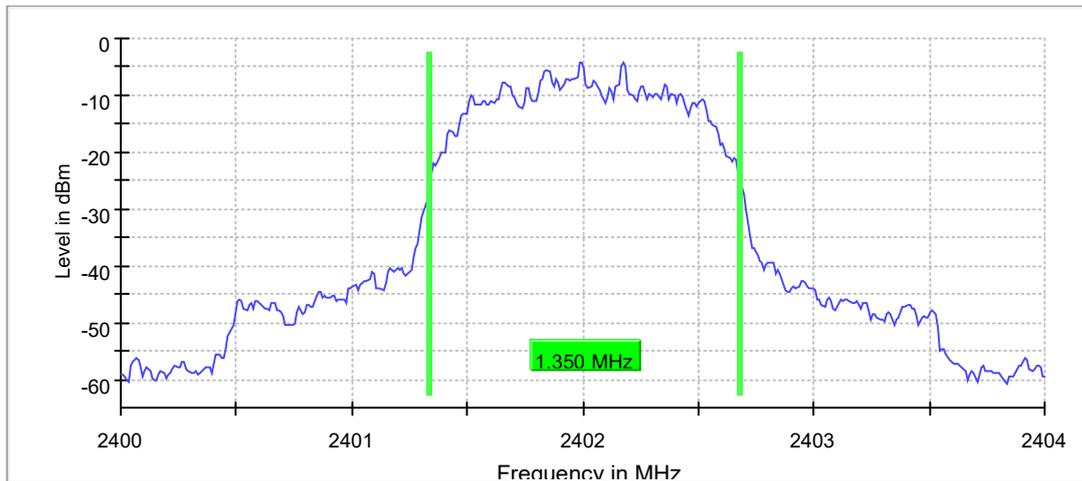
Emission Bandwidth 20 dB (2-DH5, 2402 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.350000	---	---	2401.335000	2402.685000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-4.1	PASS

20 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.23 dB	0.50 dB

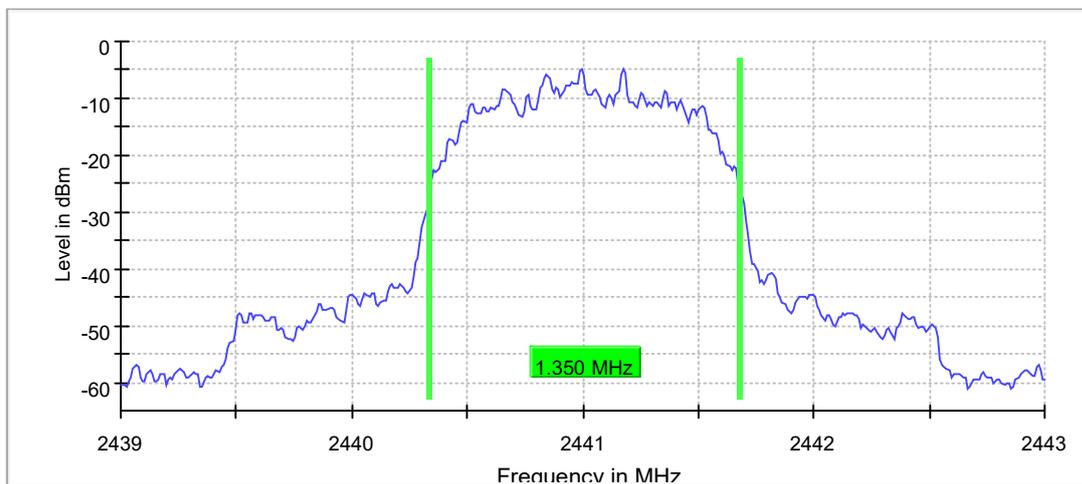
Emission Bandwidth 20 dB (2-DH5, 2441 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.350000	---	---	2440.335000	2441.685000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2441.000000	-4.9	PASS

20 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.11 dB	0.50 dB

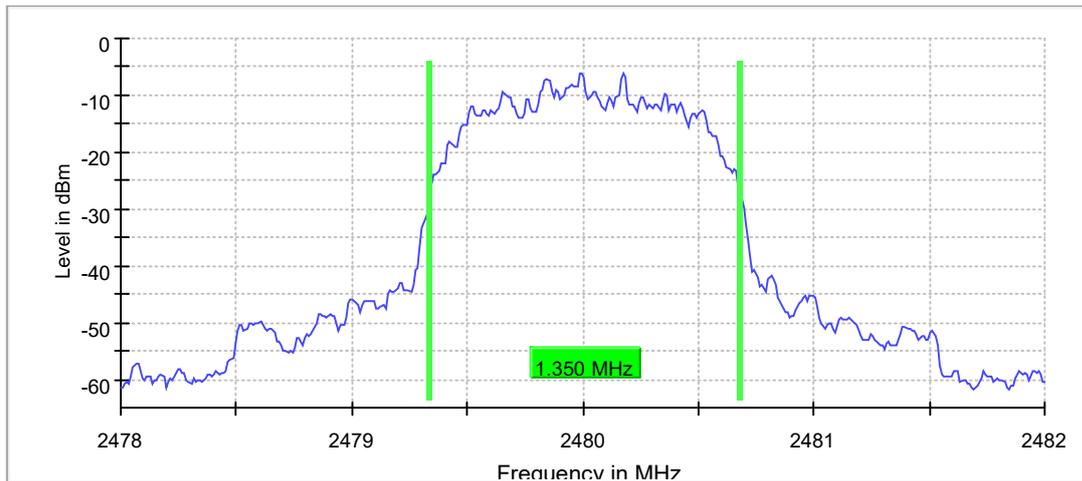
Emission Bandwidth 20 dB (2-DH5, 2480 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.350000	---	---	2479.335000	2480.685000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-6.0	PASS

20 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	13 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.13 dB	0.50 dB

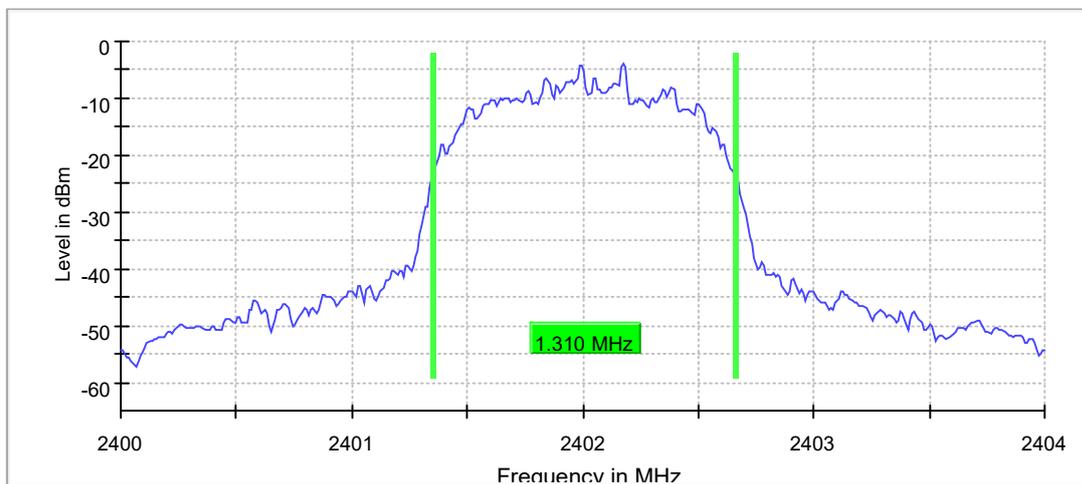
Emission Bandwidth 20 dB (3-DH5, 2402 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.310000	---	---	2401.355000	2402.665000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-3.9	PASS

20 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	10 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.06 dB	0.50 dB

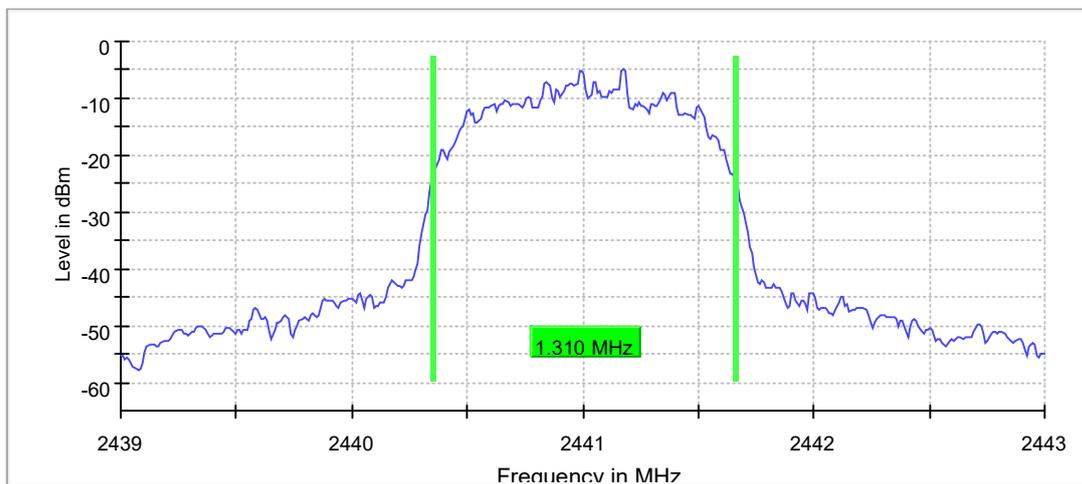
Emission Bandwidth 20 dB (3-DH5, 2441 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.310000	---	---	2440.355000	2441.665000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2441.000000	-4.7	PASS

20 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	11 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.04 dB	0.50 dB

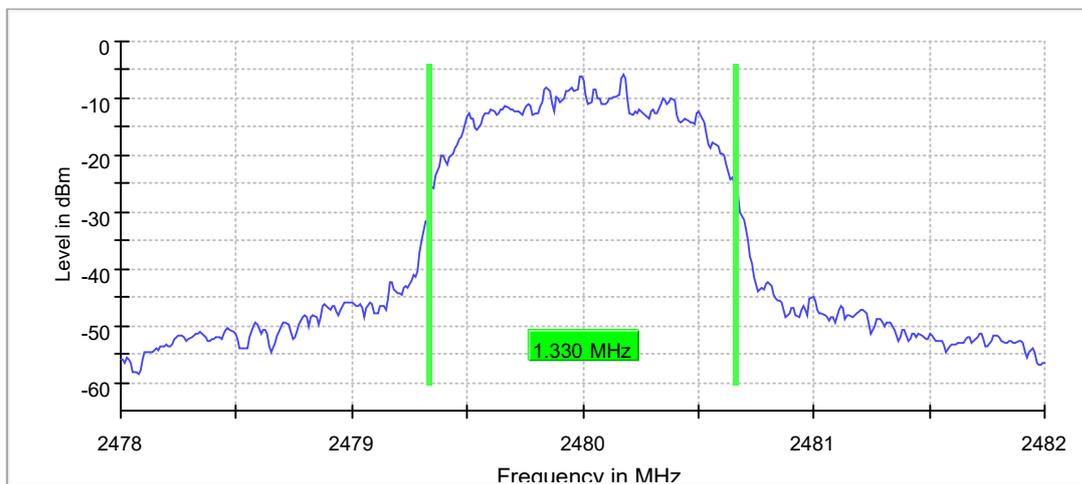
Emission Bandwidth 20 dB (3-DH5, 2480 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.330000	---	---	2479.335000	2480.665000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-5.9	PASS

20 dB Bandwidth


Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5 / 5	5
Max Stable Difference	0.08 dB	0.50 dB

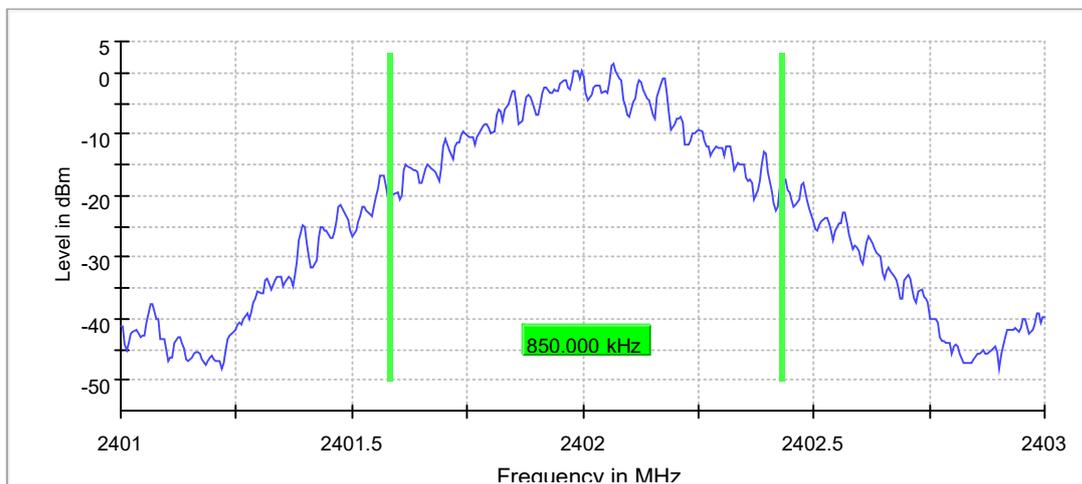
Occupied Channel Bandwidth 99% (1-DH5, 2402 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	0.850000	---	---	2401.582500	2402.432500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	7 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.18 dB	0.30 dB

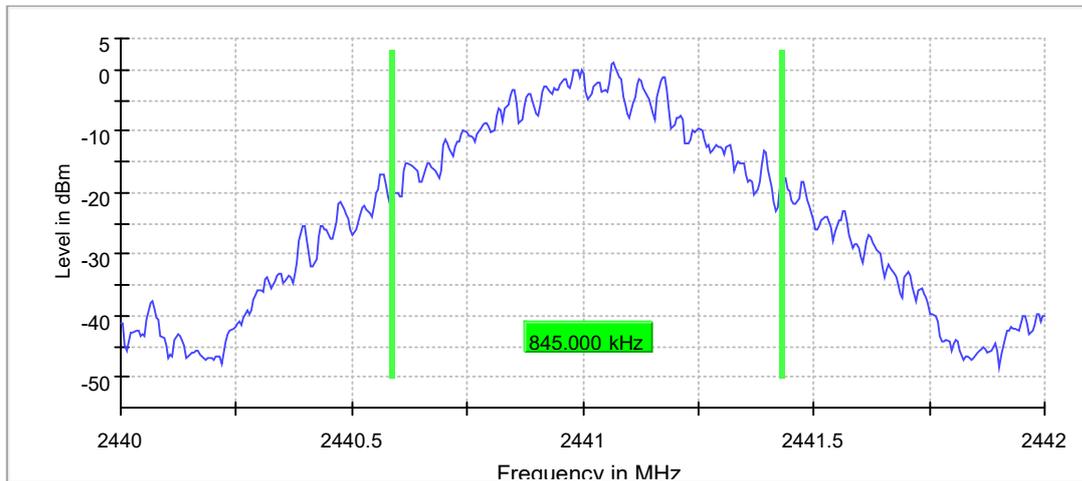
Occupied Channel Bandwidth 99% (1-DH5, 2441 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	0.845000	---	---	2440.587500	2441.432500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2441.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44200 GHz	2.44200 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	6 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.06 dB	0.30 dB

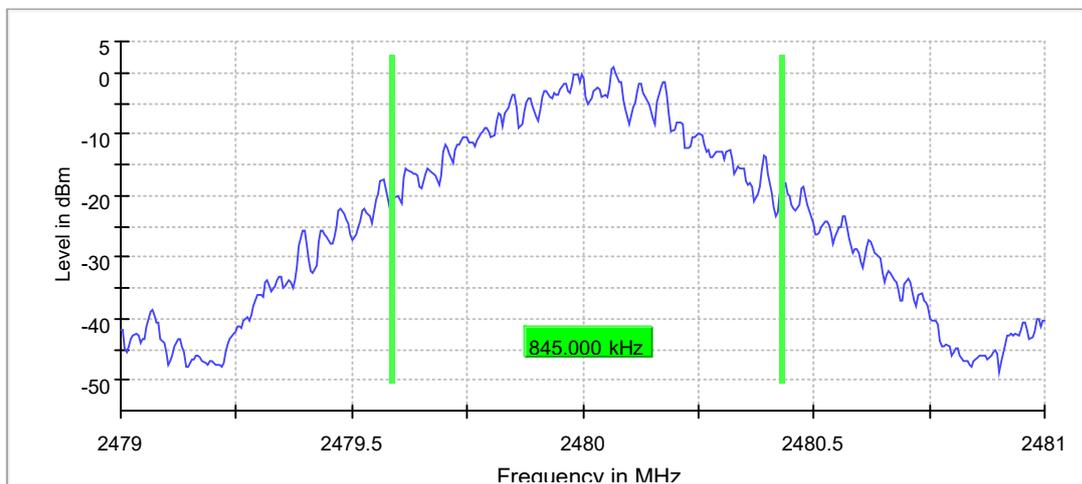
Occupied Channel Bandwidth 99% (1-DH5, 2480 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	0.845000	---	---	2479.587500	2480.432500

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	10.000 kHz	>= 10.000 kHz
VBW	30.000 kHz	>= 30.000 kHz
SweepPoints	400	~ 400
Sweeptime	189.648 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	5 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.13 dB	0.30 dB

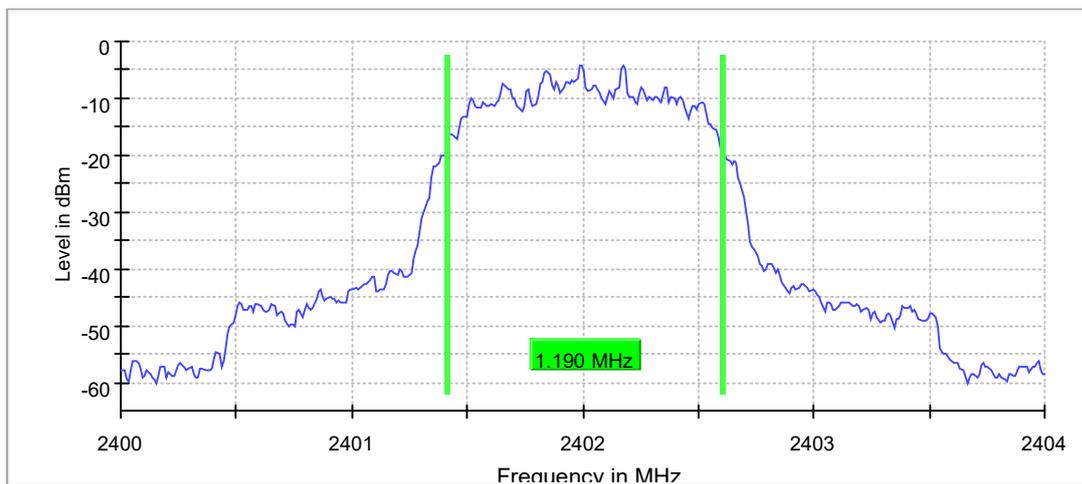
Occupied Channel Bandwidth 99% (2-DH5, 2402 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.190000	---	---	2401.415000	2402.605000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	9 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.07 dB	0.30 dB

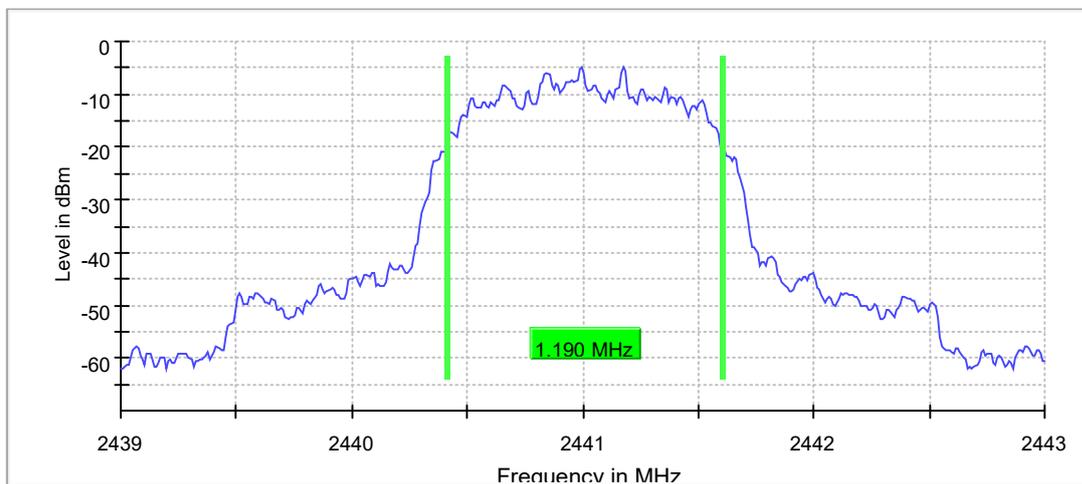
Occupied Channel Bandwidth 99% (2-DH5, 2441 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.190000	---	---	2440.415000	2441.605000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2441.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	6 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.17 dB	0.30 dB

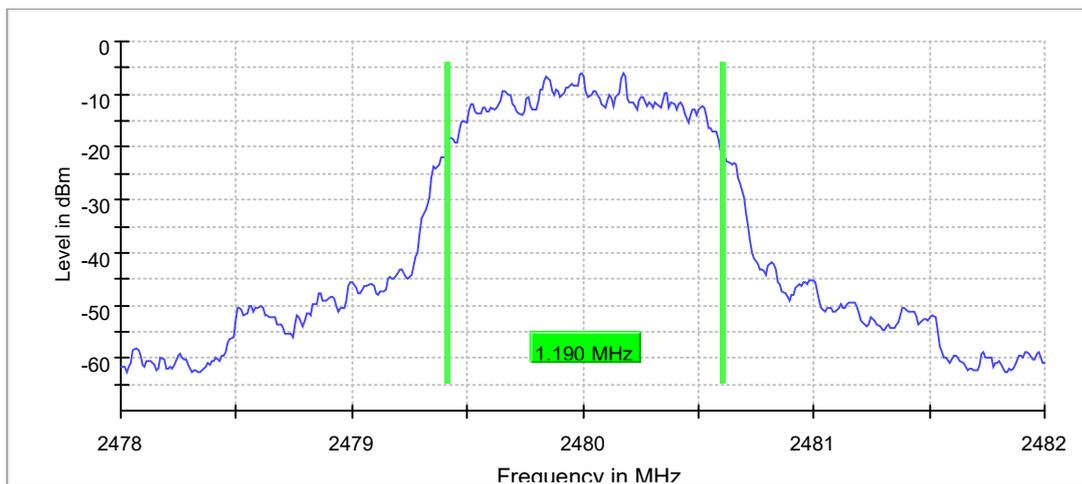
Occupied Channel Bandwidth 99% (2-DH5, 2480 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.190000	---	---	2479.415000	2480.605000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	9 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.08 dB	0.30 dB

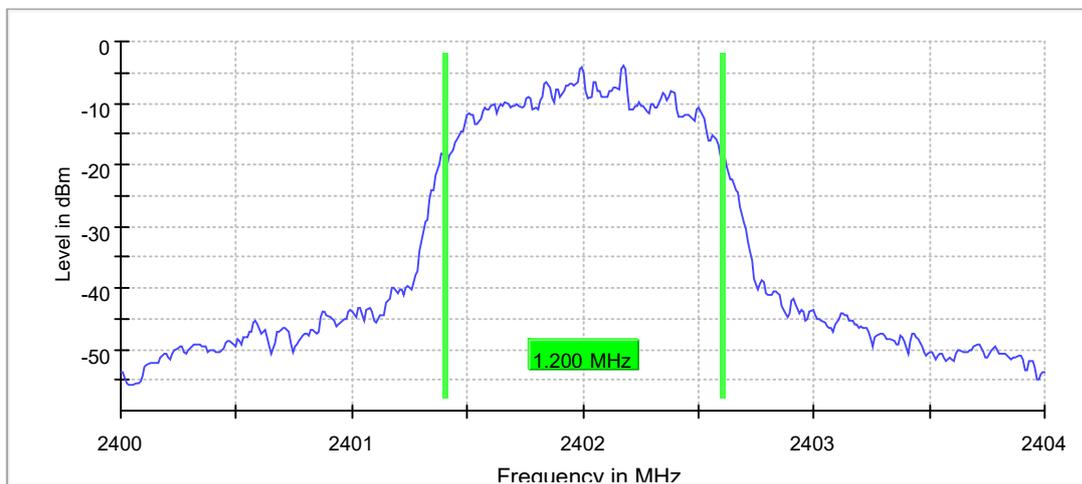
Occupied Channel Bandwidth 99% (3-DH5, 2402 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.200000	---	---	2401.405000	2402.605000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	6 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.08 dB	0.30 dB

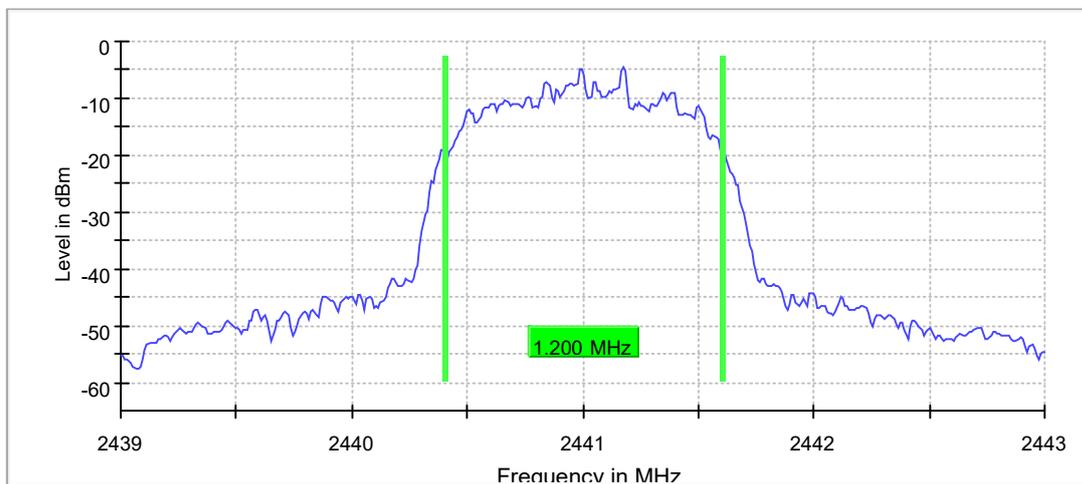
Occupied Channel Bandwidth 99% (3-DH5, 2441 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2441.000000	1.200000	---	---	2440.405000	2441.605000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2441.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	6 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.10 dB	0.30 dB

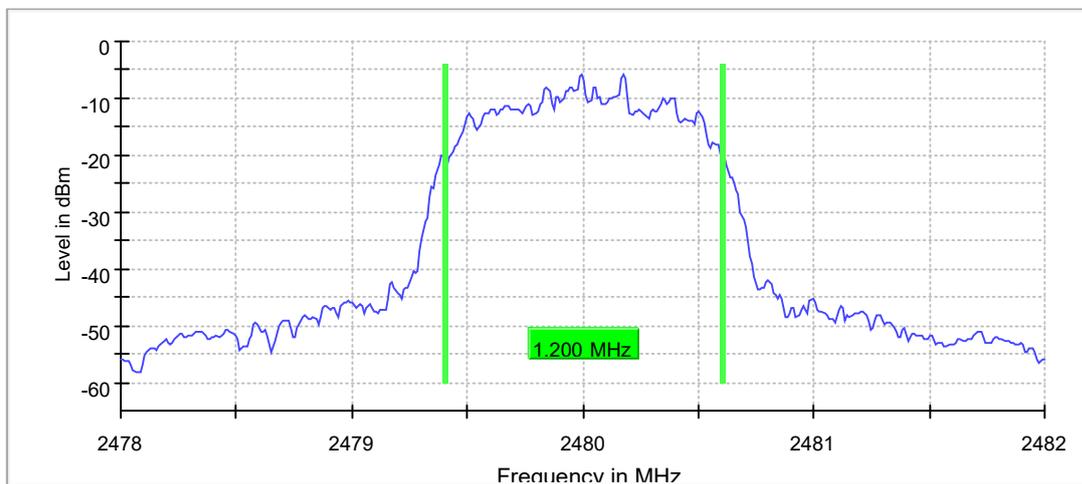
Occupied Channel Bandwidth 99% (3-DH5, 2480 MHz)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.200000	---	---	2479.405000	2480.605000

(continuation of the "99 % Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

99 % Bandwidth



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48200 GHz	2.48200 GHz
Span	4.000 MHz	4.000 MHz
RBW	20.000 kHz	>= 20.000 kHz
VBW	100.000 kHz	>= 60.000 kHz
SweepPoints	400	~ 400
Sweeptime	94.824 µs	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	500	500
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	FFT	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.30 dB	0.30 dB
Run	9 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.15 dB	0.30 dB

5.1.4 Frequency Separation

RESULT:**Pass**

Date of testing : 2025-05-07
Ambient temperature : 20.7°C
Relative humidity : 50.5%
Atmospheric pressure : 101kPa
Test requirement : FCC Part 15.247(a)(1)
RSS-247 Issue 3, August 2023, Clause 5.1(b)
Test procedure : ANSI C63.10-2020+Cor. 1-2023+C63.10a-
2024+Errata to C63.10a-2024
Test voltage : DC 3.3V
Test modes applied : A

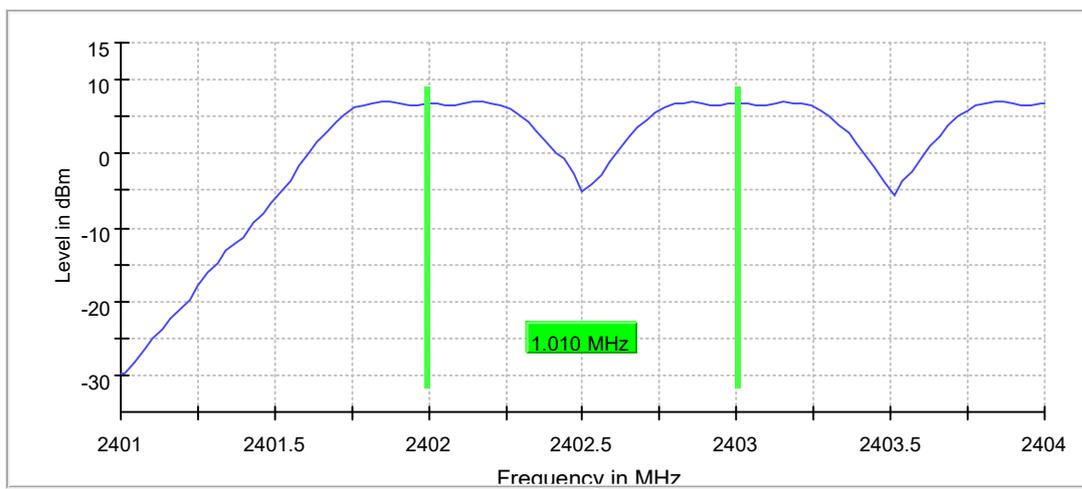
Carrier Frequency Separation (1-DH5, 2402 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2402.000000	1.009900	0.616667	---	2401.995050	2403.004950

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

CFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	22 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.16 dB	0.50 dB

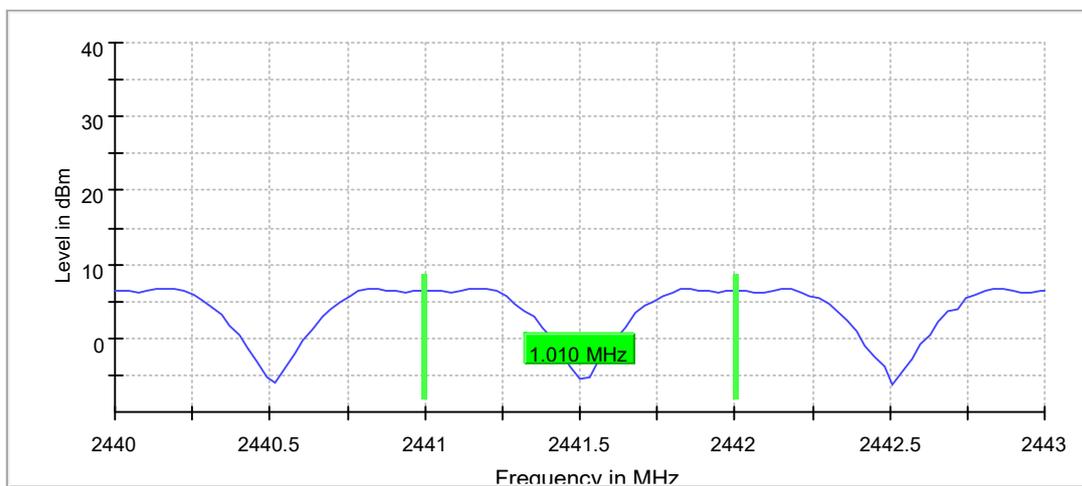
Carrier Frequency Separation (1-DH5, 2441 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2441.000000	1.009900	0.616667	---	2440.995050	2442.004950

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2441.000000	PASS

CFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	11 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

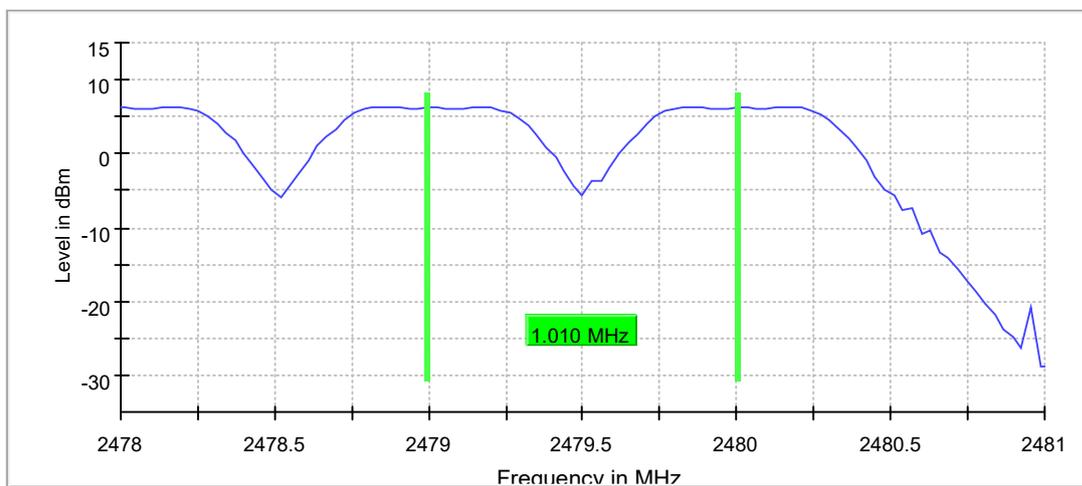
Carrier Frequency Separation (1-DH5, 2480 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2480.000000	1.009900	0.616667	---	2478.995050	2480.004950

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

CFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	15 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.18 dB	0.50 dB

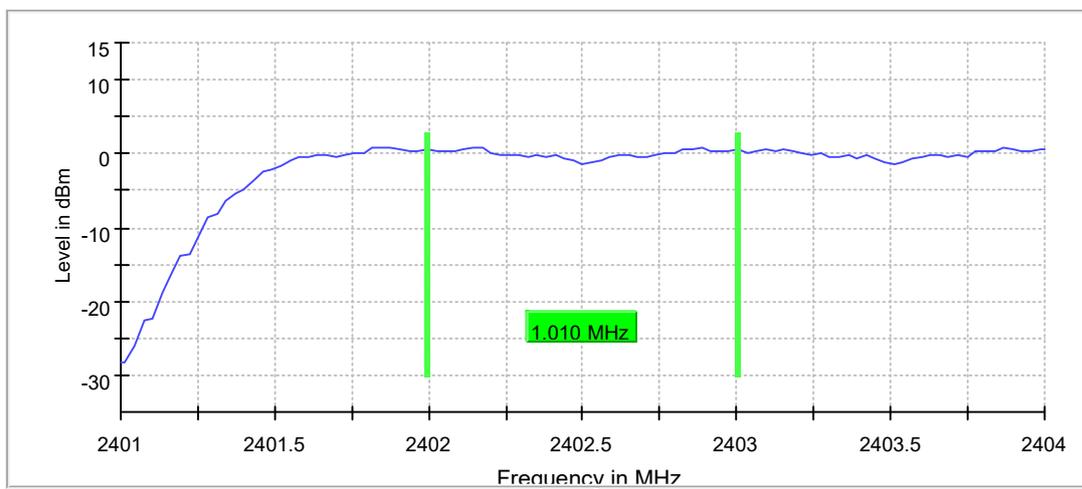
Carrier Frequency Separation (2-DH5, 2402 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2402.000000	1.009900	0.900000	---	2401.995050	2403.004950

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

CFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	37 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

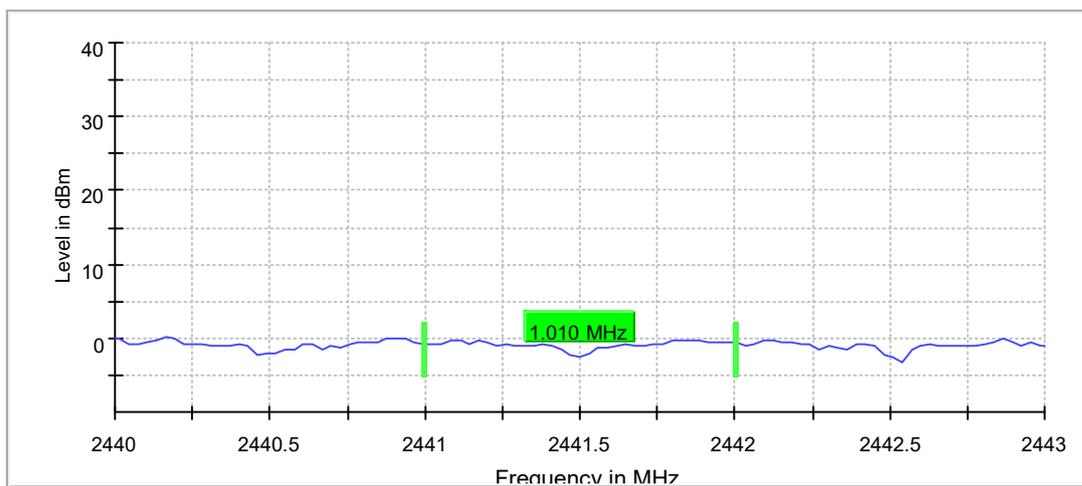
Carrier Frequency Separation (2-DH5, 2441 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2441.000000	1.009900	0.900000	---	2440.995050	2442.004950

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2441.000000	PASS

CFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	12 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

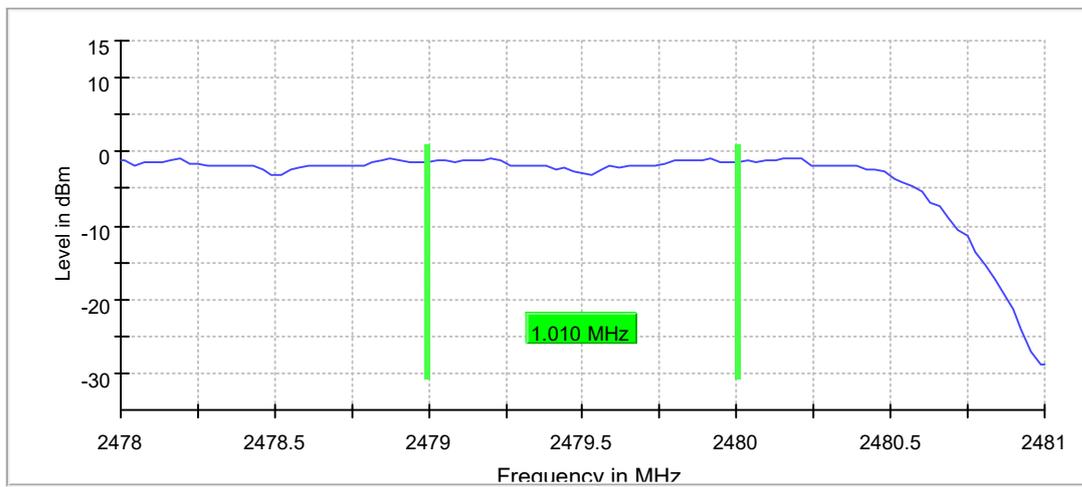
Carrier Frequency Separation (2-DH5, 2480 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2480.000000	1.009900	0.900000	---	2478.995050	2480.004950

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

CFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	40 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.24 dB	0.50 dB

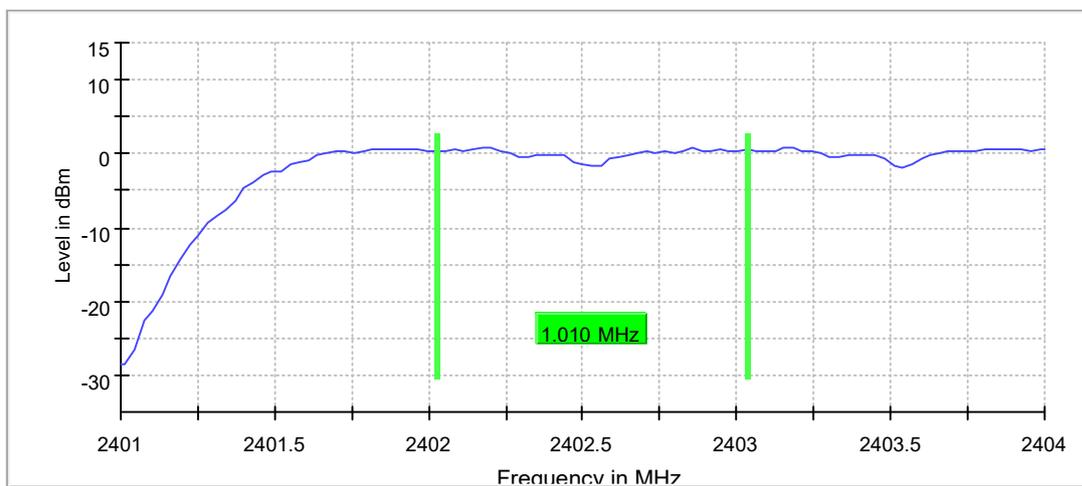
Carrier Frequency Separation (3-DH5, 2402 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2402.000000	1.009901	0.873333	---	2402.024752	2403.034653

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2402.000000	PASS

CFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	24 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.14 dB	0.50 dB

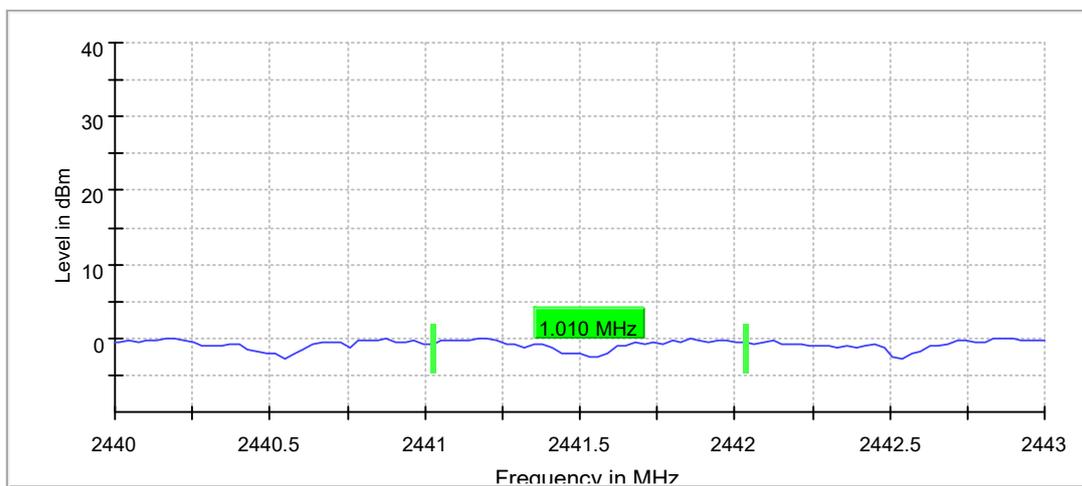
Carrier Frequency Separation (3-DH5, 2441 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2441.000000	1.009901	0.873333	---	2441.024752	2442.034653

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2441.000000	PASS

CFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.44000 GHz	2.44000 GHz
Stop Frequency	2.44300 GHz	2.44300 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	12 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.00 dB	0.50 dB

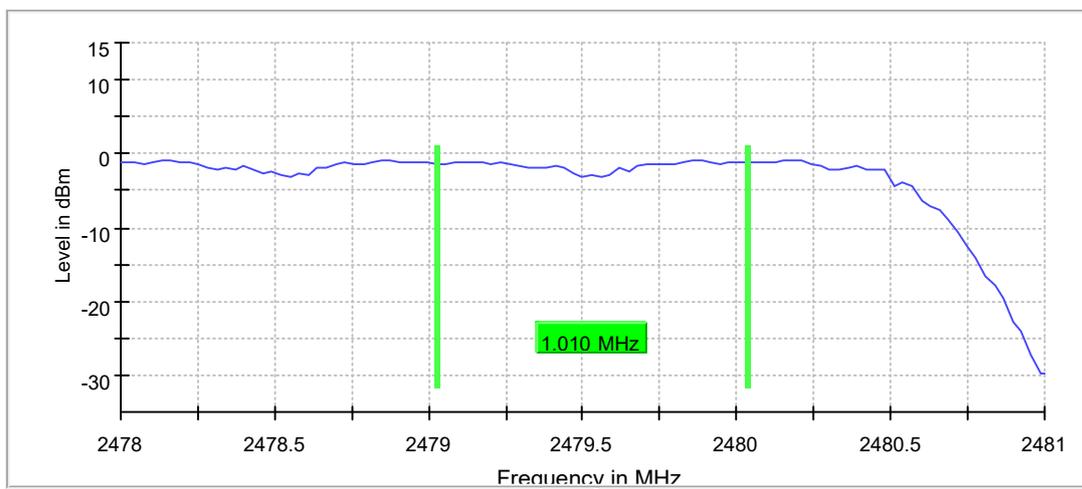
Carrier Frequency Separation (3-DH5, 2480 MHz)

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2480.000000	1.009901	0.886667	---	2479.024752	2480.034653

(continuation of the "Result" table from column 6 ...)

DUT Frequency (MHz)	Result
2480.000000	PASS

CFS



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.47800 GHz	2.47800 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	101	~ 10
Sweeptime	1.000 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	10.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	28 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.29 dB	0.50 dB

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5.1.5 Number of Hopping Frequency

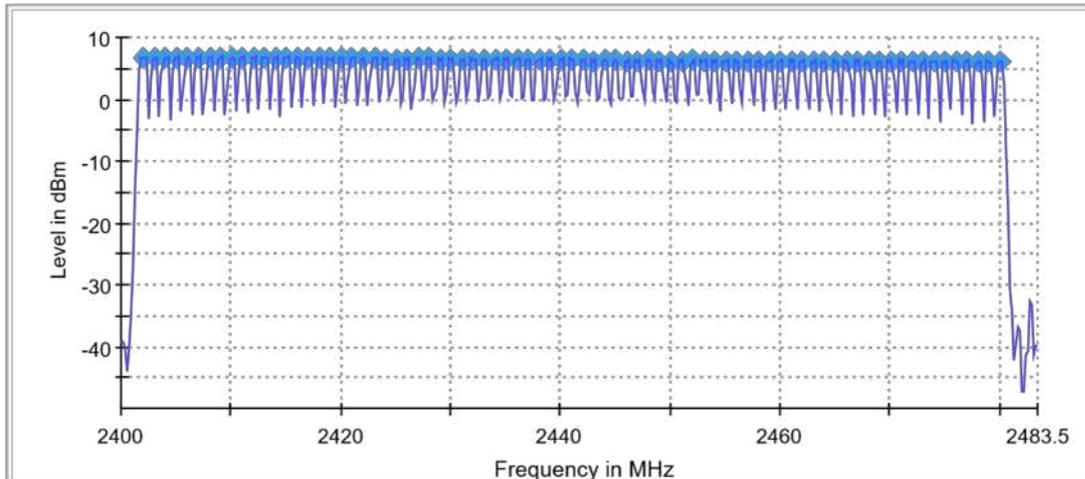
RESULT:**Pass**

Date of testing	:	2025-05-07
Ambient temperature	:	20.3°C
Relative humidity	:	50.6%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC 15.247(a)(1)(iii) RSS-247 Issue 3, August 2023, Clause 5.1(d)
Test procedure	:	ANSI C63.10-2020+Cor. 1-2023+C63.10a- 2024+Errata to C63.10a-2024
Test voltage	:	DC 3.3V
Test modes applied	:	A

Hopping Frequencies (1-DH5)

Channels	Limit Min	Limit Max	Result
79	15	---	PASS

Sequence



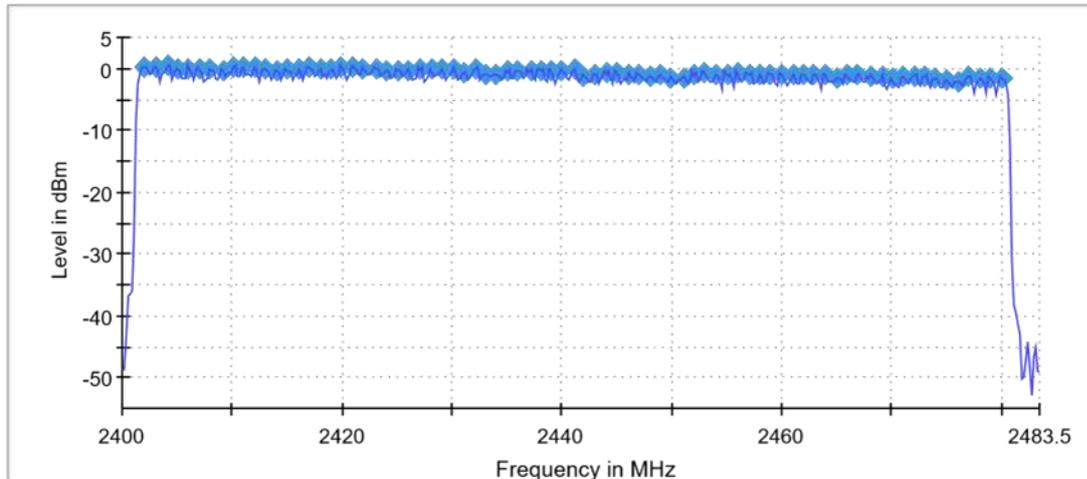
Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 299.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
Sweeptime	1.060 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	58 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.27 dB	0.50 dB

Hopping Frequencies (2-DH5)

Channels	Limit Min	Limit Max	Result
79	15	---	PASS

Sequence



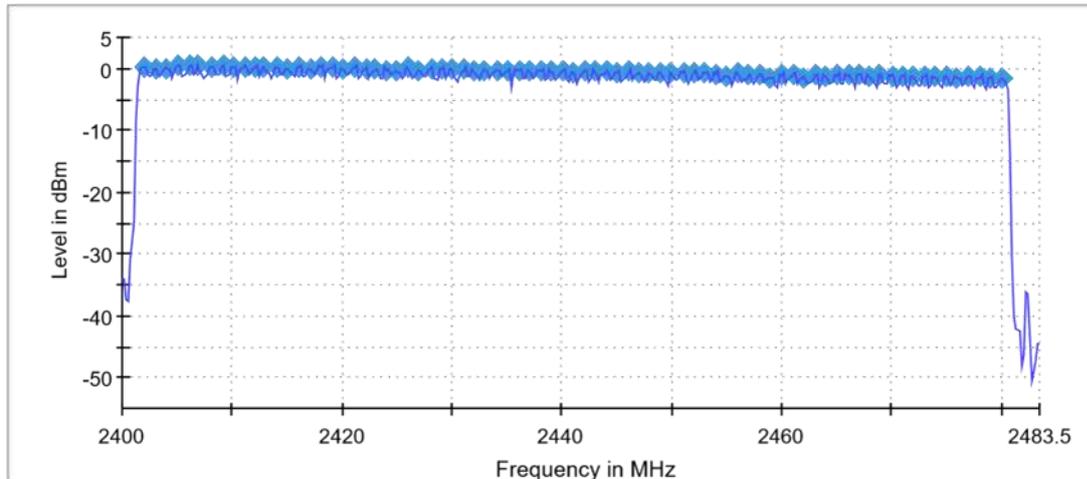
Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 299.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
Sweeptime	1.060 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	74 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.15 dB	0.50 dB

Hopping Frequencies (3-DH5)

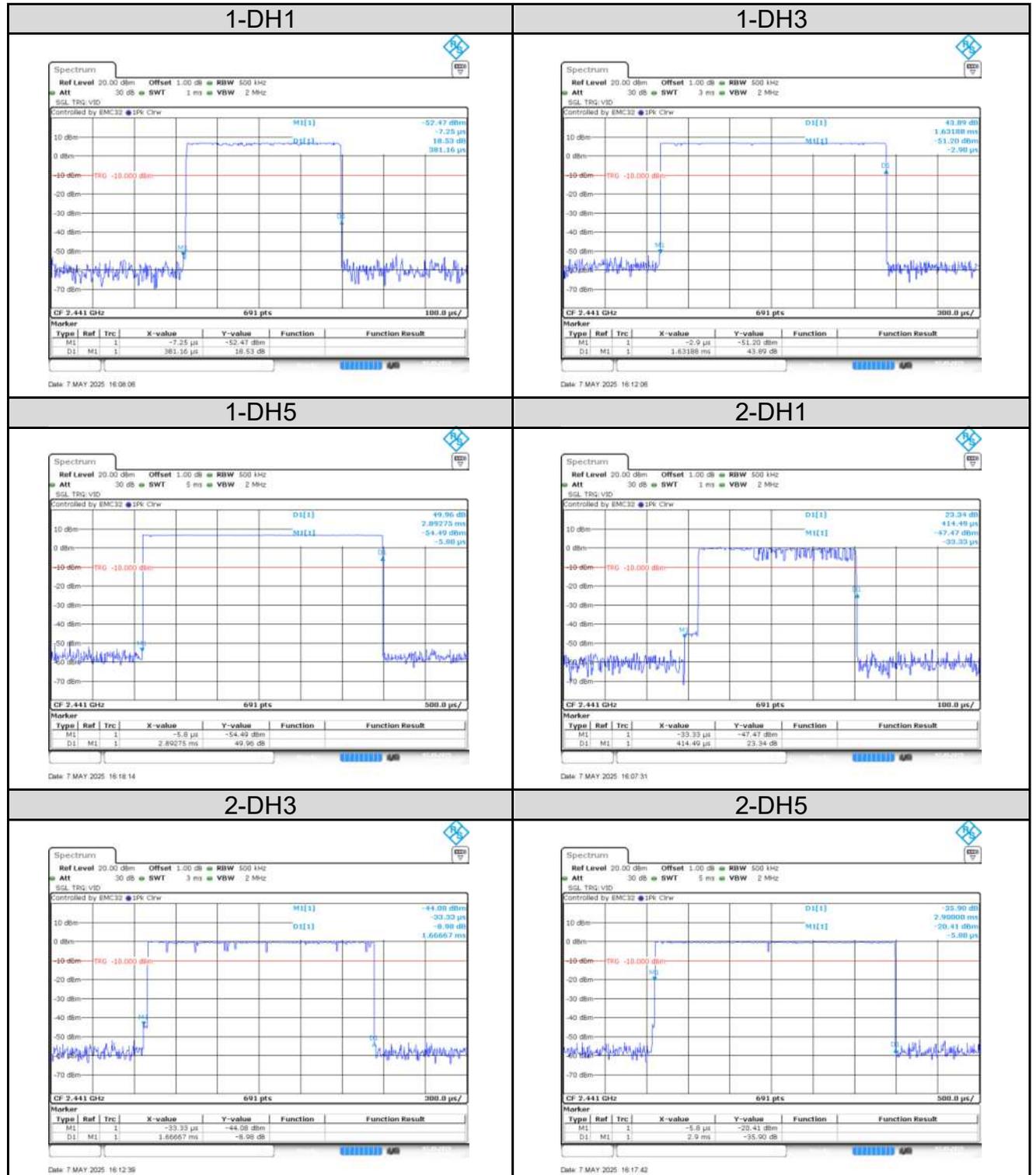
Channels	Limit Min	Limit Max	Result
79	15	---	PASS

Sequence



Measurement

Setting	Instrument Value	Target Value
Start Frequency	2.40000 GHz	2.40000 GHz
Stop Frequency	2.48350 GHz	2.48350 GHz
Span	83.500 MHz	83.500 MHz
RBW	200.000 kHz	<= 299.000 kHz
VBW	200.000 kHz	>= 200.000 kHz
SweepPoints	418	~ 418
Sweeptime	1.060 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	20.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	100	100
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	97 / max. 150	max. 150
Stable	3 / 3	3
Max Stable Difference	0.35 dB	0.50 dB

Figure 1: Dwell Time


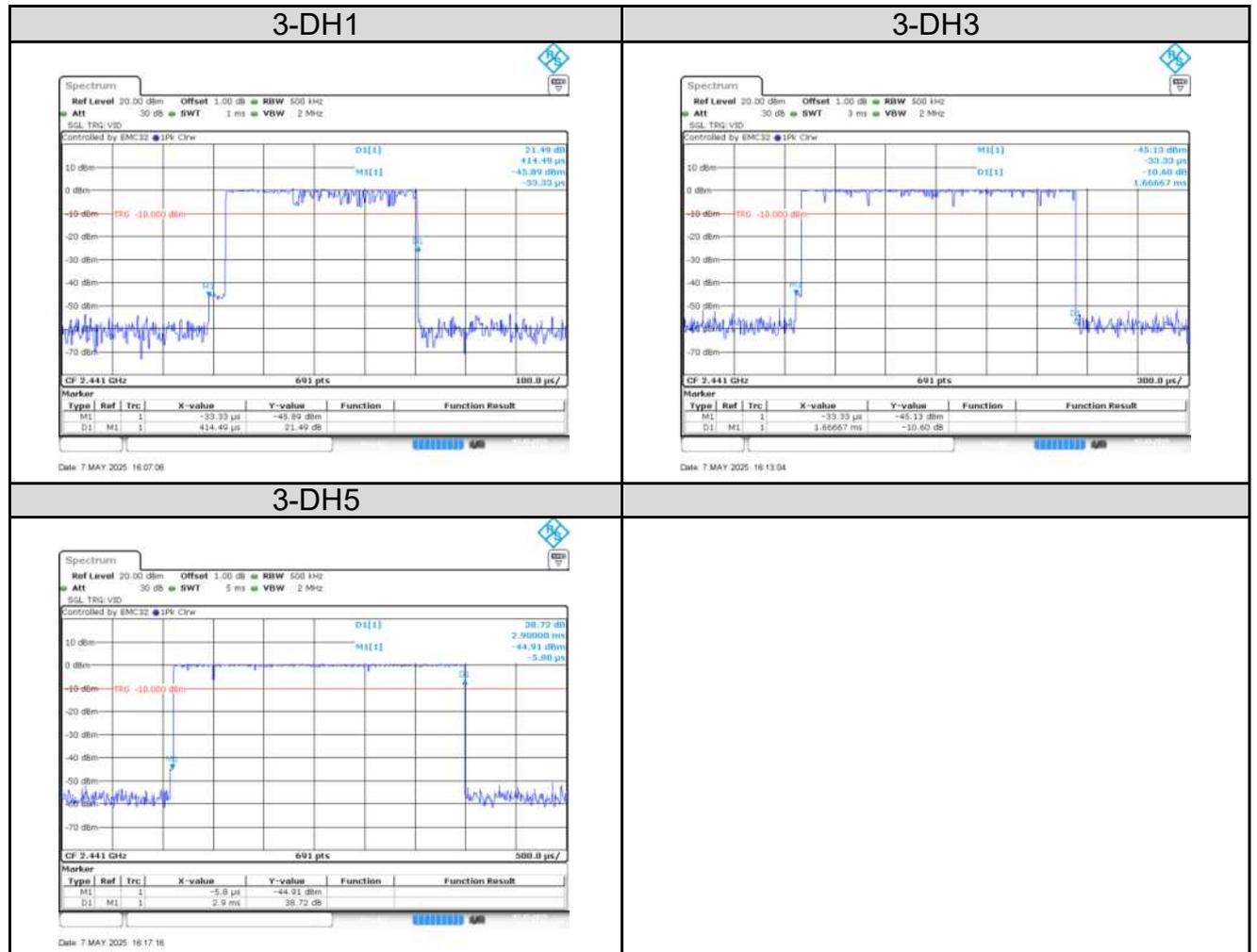
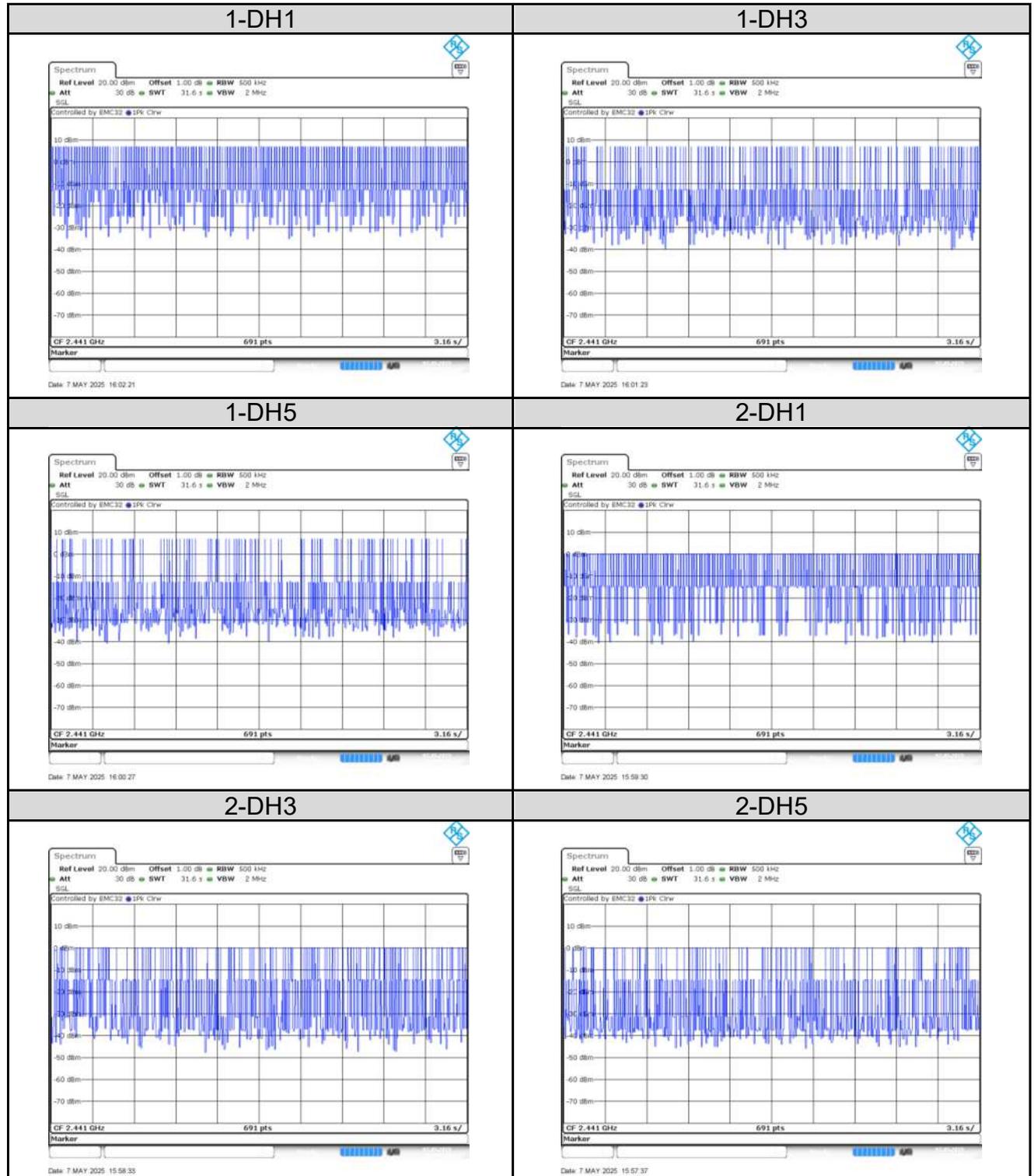
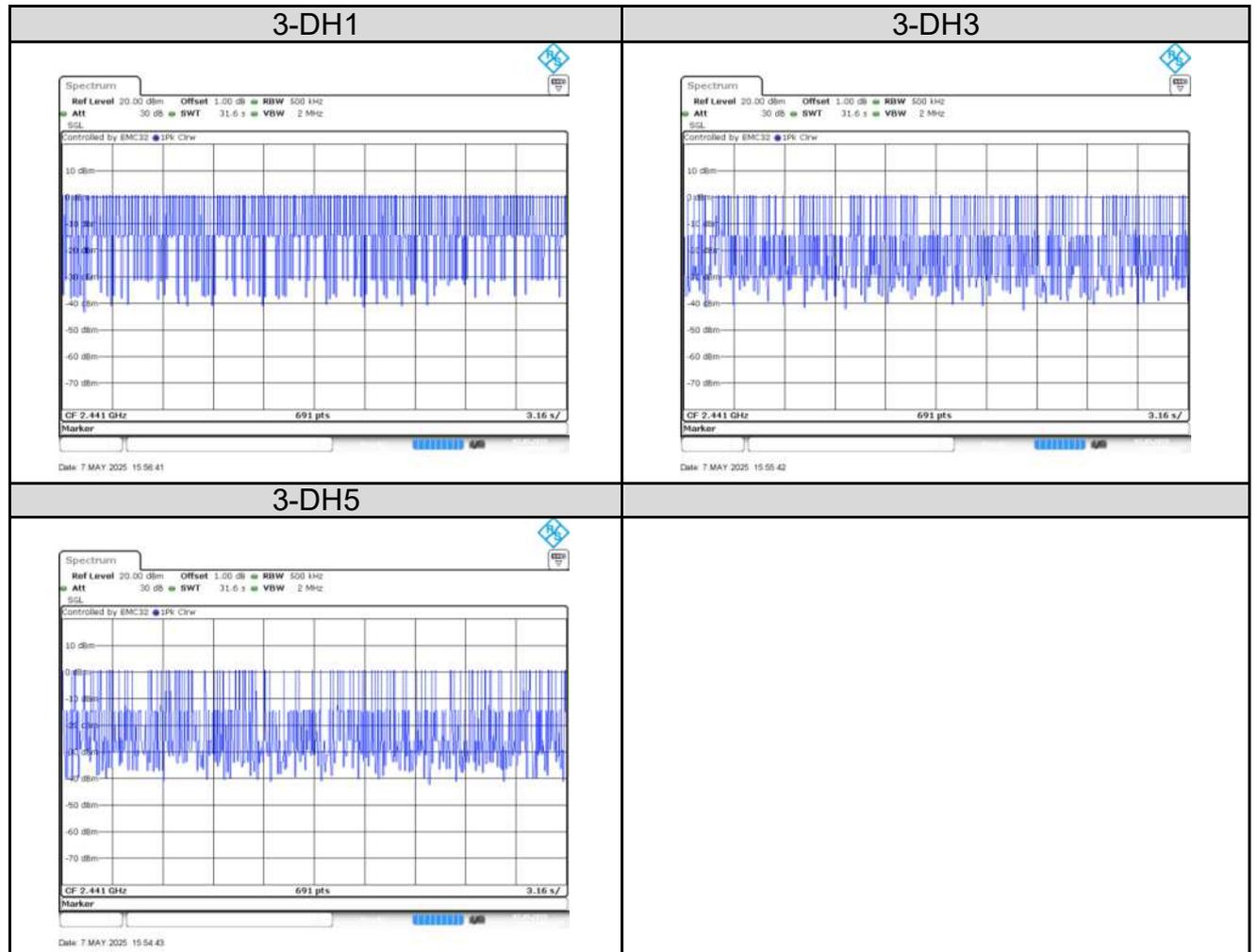


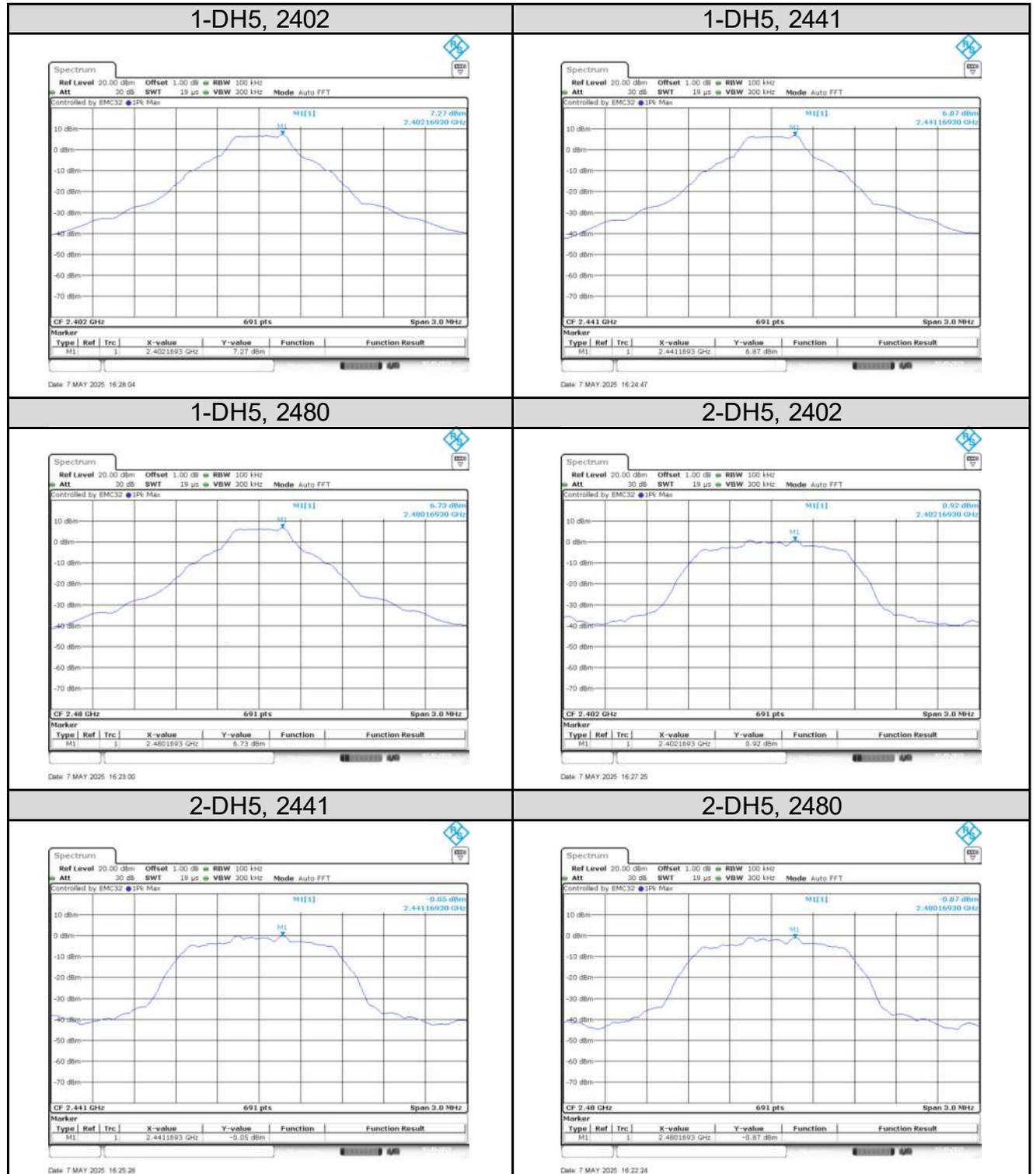
Figure 2: Number of Hops




5.1.7 Conducted Band Edge and out-of Band Emissions

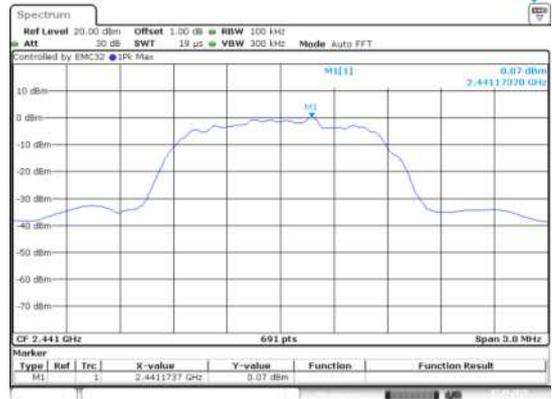
RESULT:**Pass**

Date of testing : 2025-05-07, 2025-05-15
Ambient temperature : 20.9°C, 21.5°C
Relative humidity : 50.8%, 52.6%
Atmospheric pressure : 101kPa
Test requirement : FCC Part 15.247(d)
RSS-247 Issue 3, August 2023, Clause 5.5
Test procedure : ANSI C63.10-2020+Cor. 1-2023+C63.10a-
2024+Errata to C63.10a-2024
Test voltage : DC 3.3V
Test modes applied : A

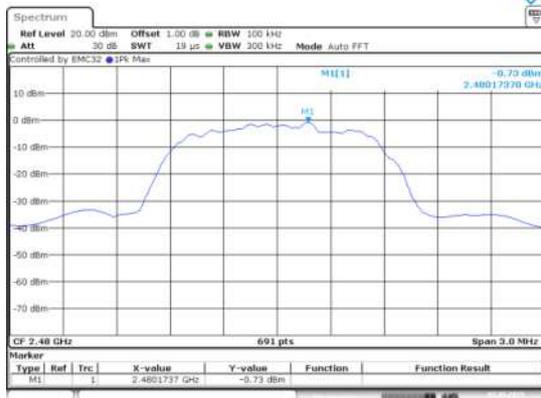
Figure 3: Reference Level


3-DH5, 2402

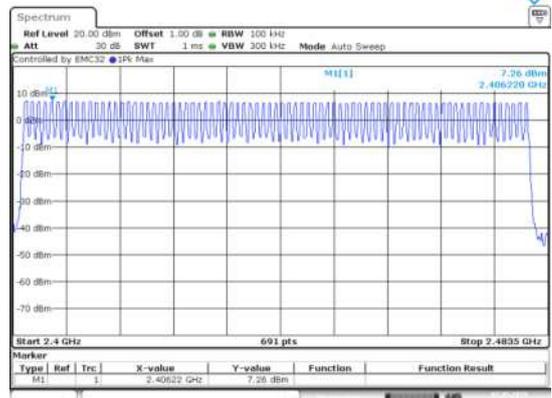

Date: 7 MAY 2025 16:28:55

3-DH5, 2441


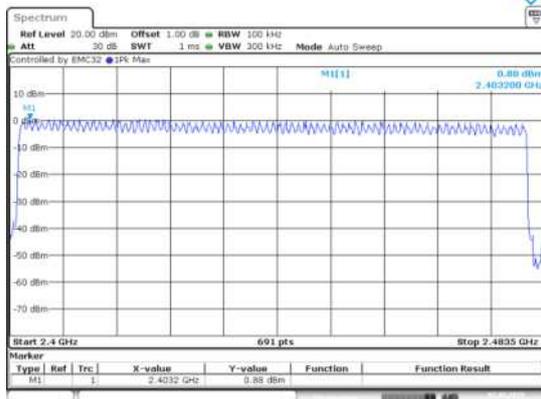
Date: 7 MAY 2025 16:28:04

3-DH5, 2480


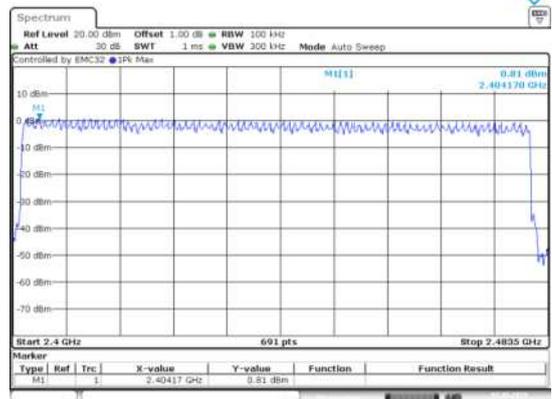
Date: 7 MAY 2025 16:21:45

1-DH5, Hopping


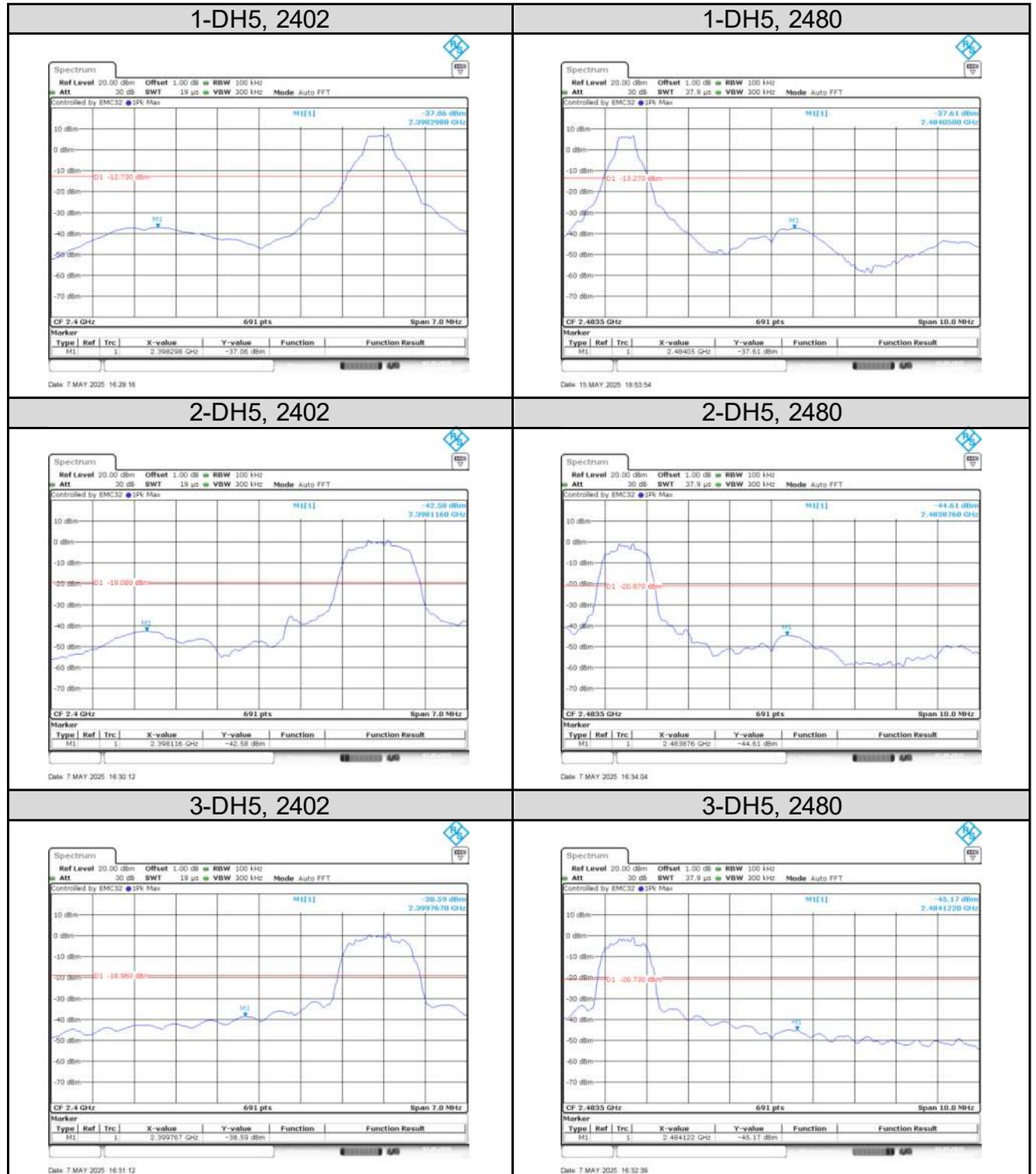
Date: 7 MAY 2025 15:38:37

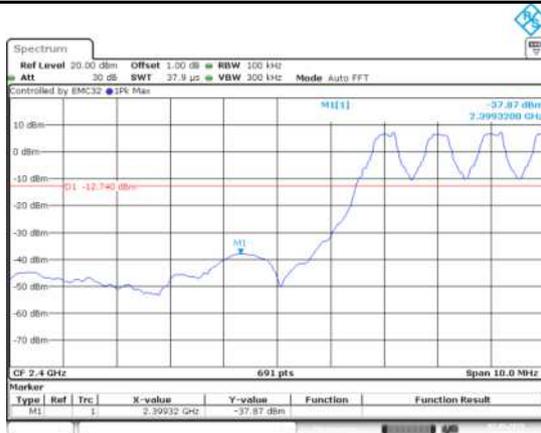
2-DH5, Hopping


Date: 7 MAY 2025 15:35:08

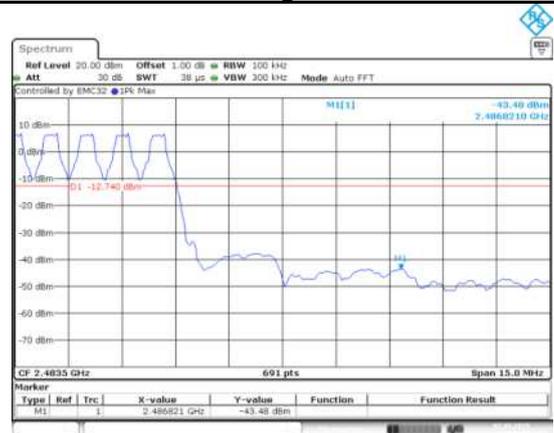
3-DH5, Hopping


Date: 7 MAY 2025 15:33:57

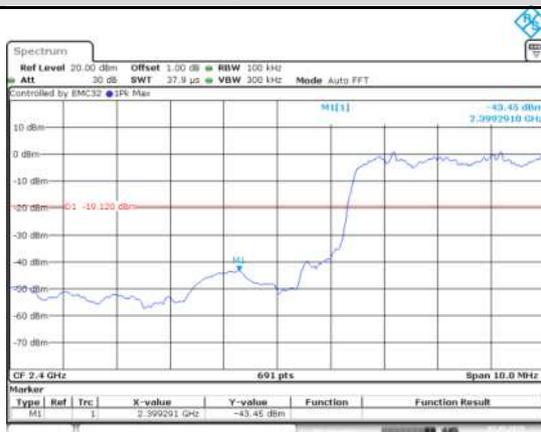
Figure 4: Conducted Band Edge


1-DH5, lower band


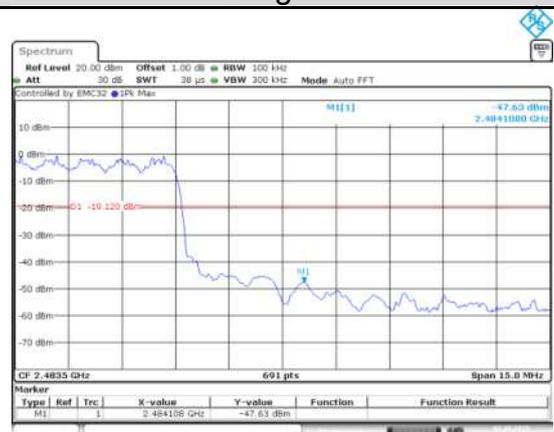
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1-DH5, higher band


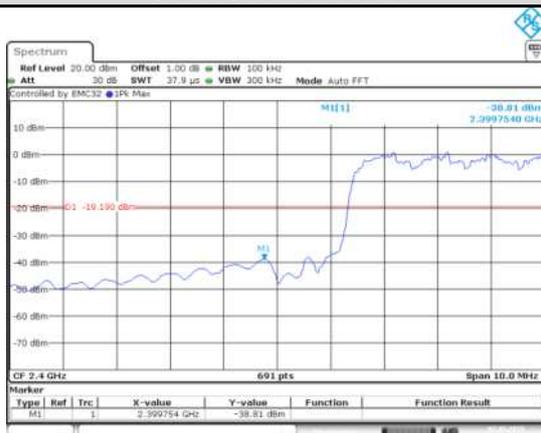
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2-DH5 lower band


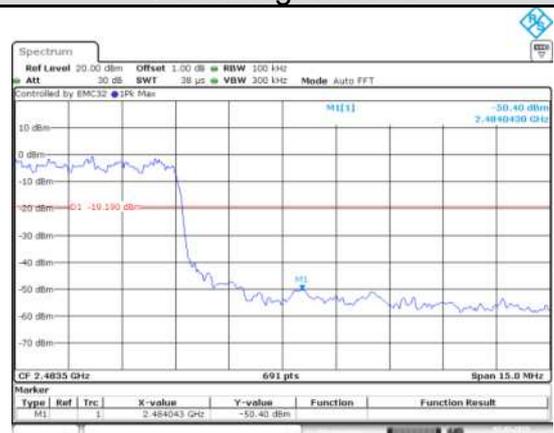
Date: 7 MAY 2025 15:48:32

2-DH5 higher band


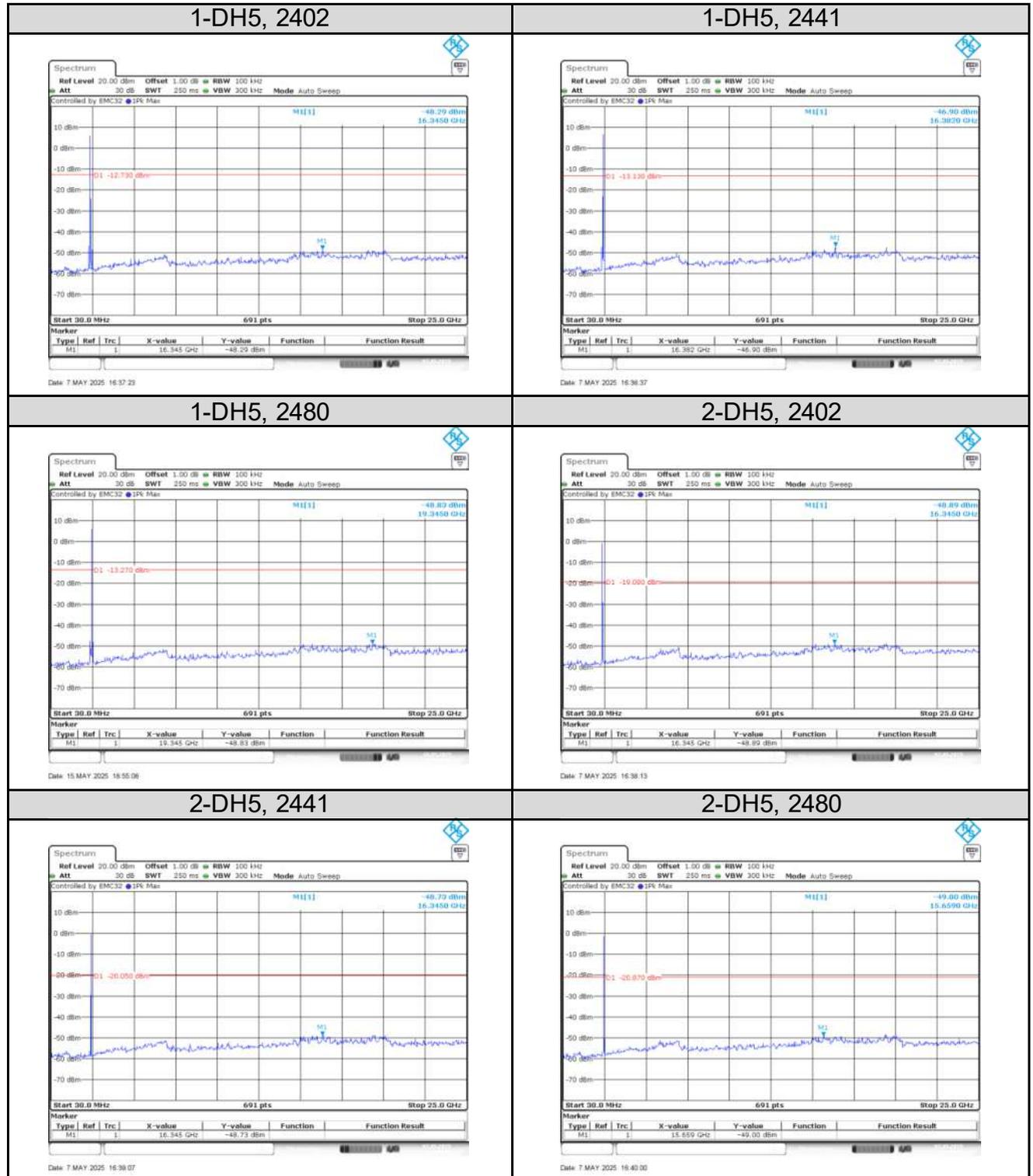
Date: 7 MAY 2025 15:48:24

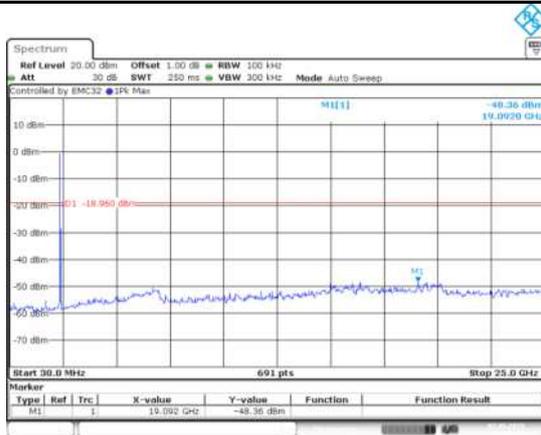
3-DH5 lower band


Date: 7 MAY 2025 15:50:41

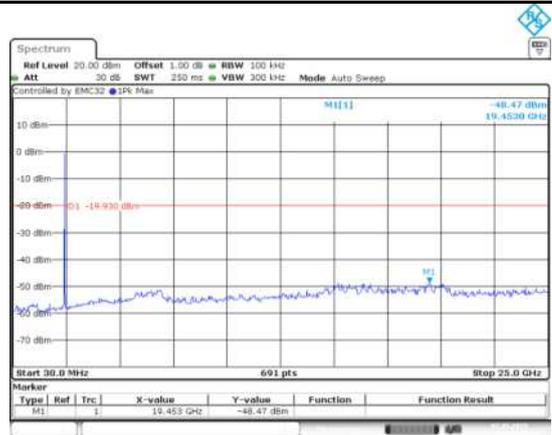
3-DH5 higher band


Date: 7 MAY 2025 15:51:55

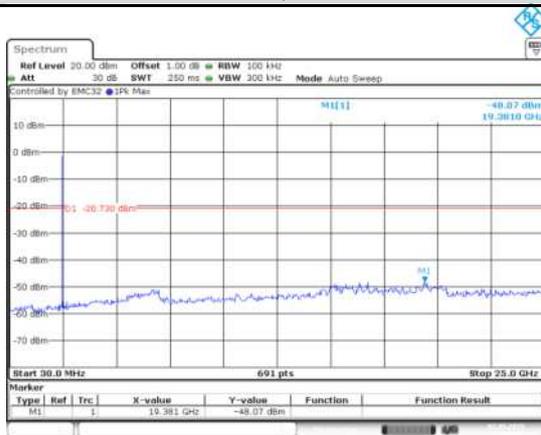
Figure 5: Conducted Spurious Emission


3-DH5, 2402


Date: 7 MAY 2025 18:43:07

3-DH5, 2441


Date: 7 MAY 2025 18:42:10

3-DH5, 2480


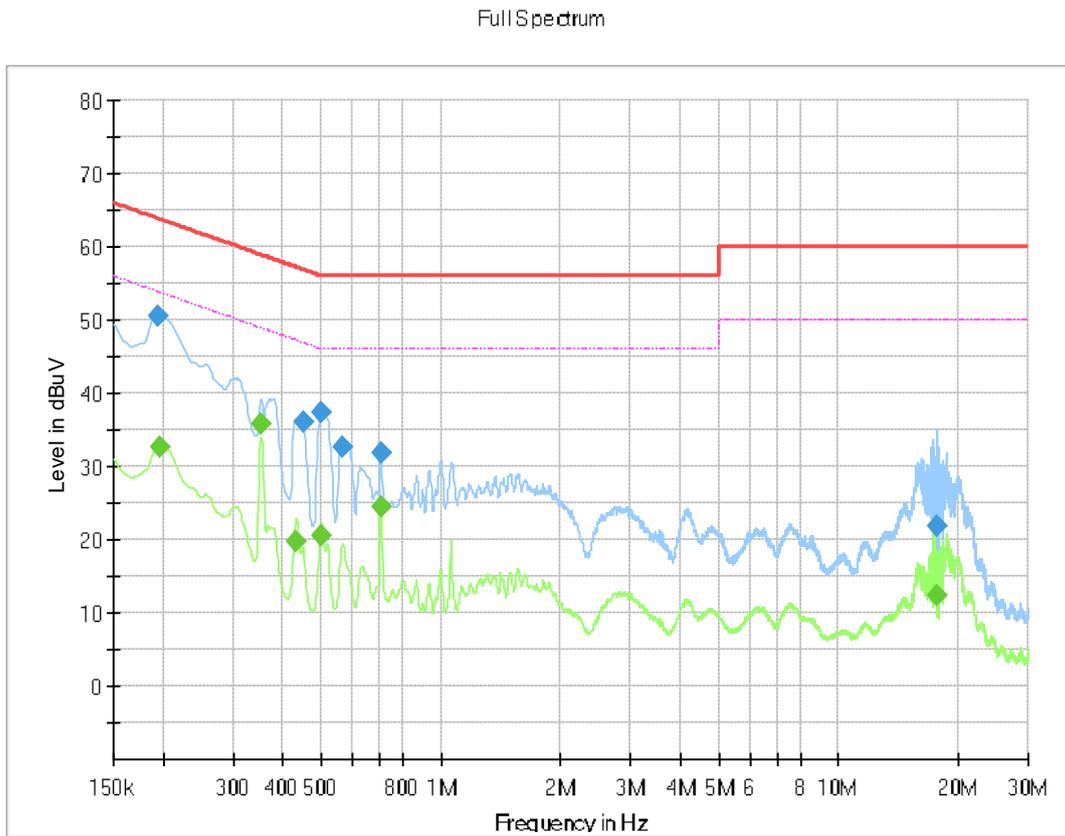
Date: 7 MAY 2025 18:41:08

5.2 Emission in the Frequency Range up to 30MHz

5.2.1 Conducted Emission

RESULT:**Pass**

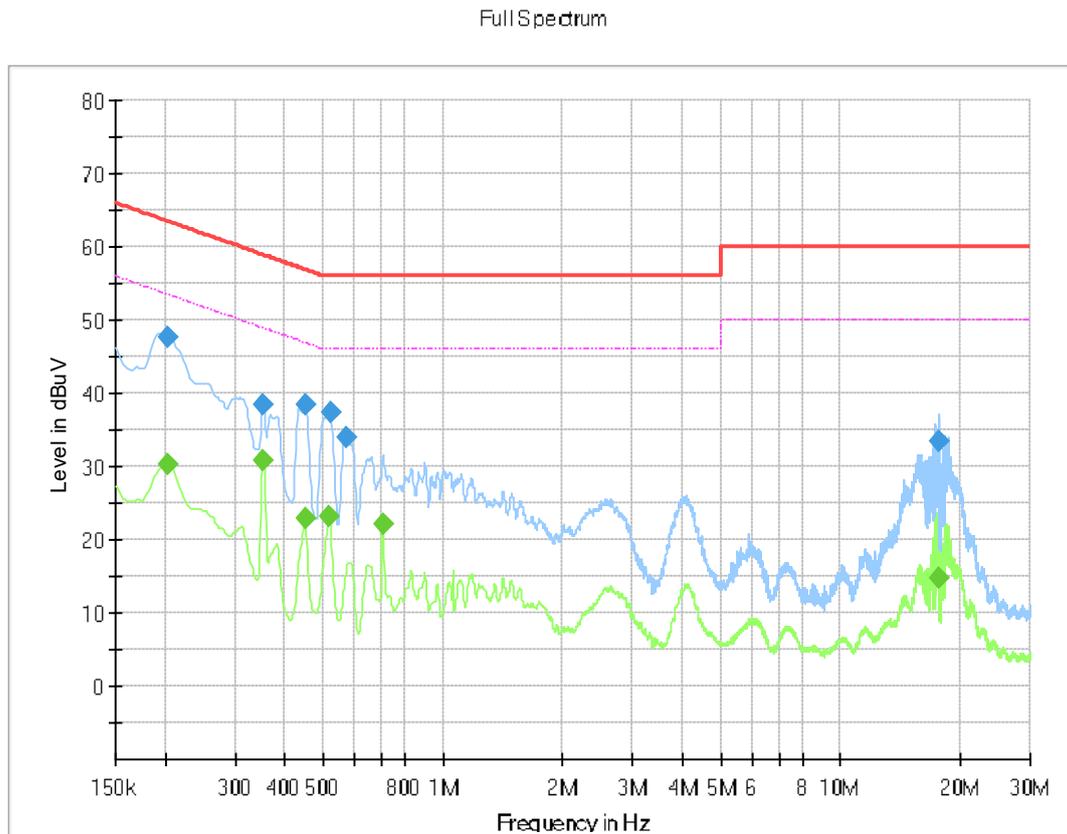
Date of testing	:	2025-03-21
Ambient temperature	:	20.2°C
Relative humidity	:	48.2%
Atmospheric pressure	:	101kPa
Test requirement	:	FCC Part 15.207 (a) RSS-Gen Issue 5, Amendment 2, February 2021, Clause 8.8
Test procedure	:	ANSI C63.10-2020+Cor. 1-2023+C63.10a- 2024+Errata to C63.10a-2024
Test voltage	:	AC 120V, 60Hz
Test modes applied	:	B

Figure 6: Conducted Emission, L (with ICBL7.2-18-B1 battery)

Final Result QPK

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.195000	50.61	63.82	13.21	1000.0	9.000	L1	10.3
0.449250	36.10	56.89	20.79	1000.0	9.000	L1	10.3
0.498750	37.36	56.02	18.66	1000.0	9.000	L1	10.3
0.566250	32.58	56.00	23.42	1000.0	9.000	L1	10.3
0.705750	31.95	56.00	24.05	1000.0	9.000	L1	10.3
17.713500	21.95	60.00	38.05	1000.0	9.000	L1	11.0

Final Result CAV

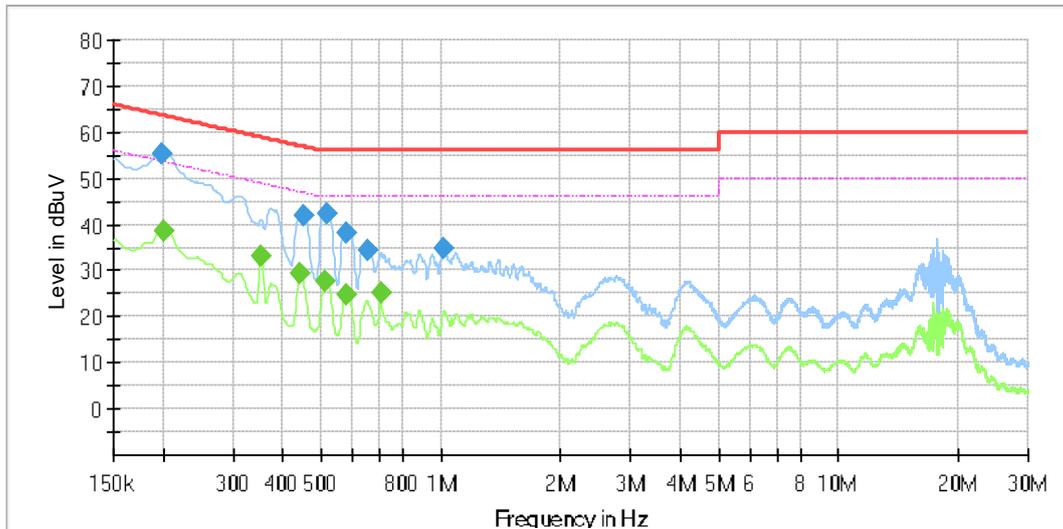
Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.197250	32.57	53.73	21.16	1000.0	9.000	L1	10.3
0.352500	35.90	48.90	13.00	1000.0	9.000	L1	10.3
0.433500	19.65	47.19	27.53	1000.0	9.000	L1	10.3
0.501000	20.65	46.00	25.35	1000.0	9.000	L1	10.3
0.705750	24.59	46.00	21.41	1000.0	9.000	L1	10.3
17.713500	12.28	50.00	37.72	1000.0	9.000	L1	11.0

Figure 7: Conducted Emission, N (with ICBL7.2-18-B1 battery)

Final Result QPK

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.204000	47.57	63.45	15.88	1000.0	9.000	N	10.8
0.352500	38.53	58.90	20.38	1000.0	9.000	N	10.4
0.449250	38.40	56.89	18.49	1000.0	9.000	N	10.3
0.521250	37.40	56.00	18.60	1000.0	9.000	N	10.2
0.570750	34.04	56.00	21.96	1000.0	9.000	N	10.3
17.616750	33.50	60.00	26.50	1000.0	9.000	N	11.2

Final Result CAV

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.204000	30.22	53.45	23.23	1000.0	9.000	N	10.8
0.352500	30.69	48.90	18.21	1000.0	9.000	N	10.4
0.449250	22.99	46.89	23.90	1000.0	9.000	N	10.3
0.519000	23.11	46.00	22.89	1000.0	9.000	N	10.2
0.705750	22.17	46.00	23.83	1000.0	9.000	N	10.4
17.686500	14.65	50.00	35.35	1000.0	9.000	N	11.2

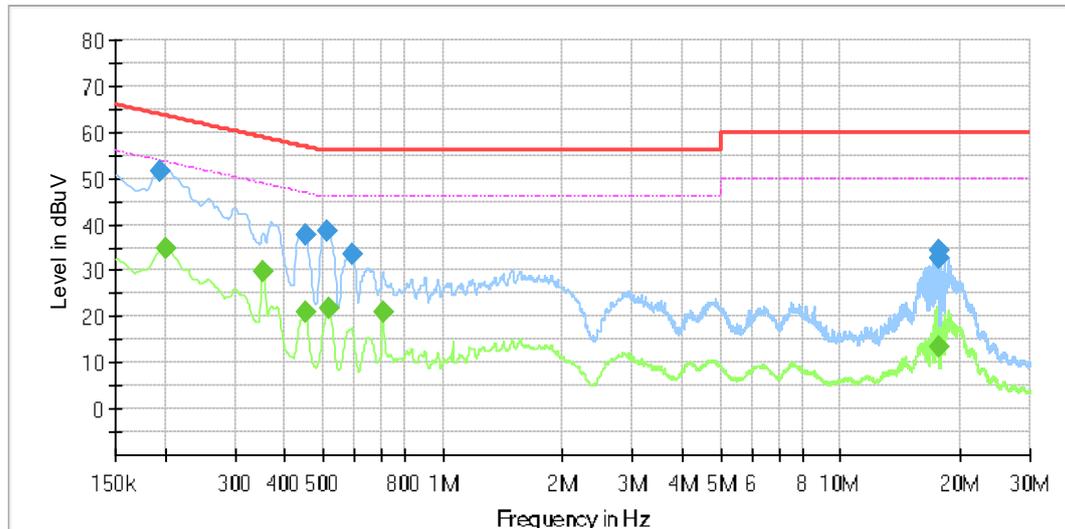
Figure 8: Conducted Emission, L (with ICBL7.2-18-USBC-B1 battery)


Final Result QPK

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.199500	55.38	63.63	8.25	1000.0	9.000	L1	10.3
0.453750	42.03	56.81	14.77	1000.0	9.000	L1	10.3
0.519000	42.22	56.00	13.78	1000.0	9.000	L1	10.3
0.577500	38.33	56.00	17.67	1000.0	9.000	L1	10.3
0.654000	34.32	46.00	20.99	1000.0	9.000	L1	10.3
1.018500	34.73	56.00	21.27	1000.0	9.000	L1	10.7

Final Result CAV

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.201750	38.36	53.54	15.18	1000.0	9.000	L1	10.3
0.352500	33.14	48.90	15.76	1000.0	9.000	L1	10.3
0.442500	29.15	47.02	17.86	1000.0	9.000	L1	10.3
0.512250	27.80	46.00	18.20	1000.0	9.000	L1	10.3
0.579750	24.91	46.00	21.09	1000.0	9.000	L1	10.3
0.705750	25.01	46.00	20.99	1000.0	9.000	L1	10.3

Figure 9: Conducted Emission, N (with ICBL7.2-18-USBC-B1 battery)

Final Result QPK

Frequency (MHz)	QuasiPeak (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.195000	51.73	63.82	12.09	1000.0	9.000	N	10.7
0.451500	37.78	56.85	19.07	1000.0	9.000	N	10.3
0.510000	38.36	56.00	17.64	1000.0	9.000	N	10.2
0.591000	33.33	56.00	22.67	1000.0	9.000	N	10.3
17.643750	34.44	60.00	25.56	1000.0	9.000	N	11.2
17.713500	32.73	60.00	27.27	1000.0	9.000	N	11.2

Final Result CAV

Frequency (MHz)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.201750	34.95	53.54	18.59	1000.0	9.000	N	10.8
0.352500	29.90	48.90	19.00	1000.0	9.000	N	10.4
0.451500	20.83	46.85	26.02	1000.0	9.000	N	10.3
0.519000	21.80	46.00	24.20	1000.0	9.000	N	10.2
0.705750	21.17	46.00	24.83	1000.0	9.000	N	10.4
17.713500	13.29	50.00	36.71	1000.0	9.000	N	11.2

5.3 Emission in the Frequency Range above 30MHz

5.3.1 Radiated Band-Edge

RESULT:**Pass**

Date of testing	:	2025-04-27
Ambient temperature	:	20.5°C
Relative humidity	:	51.2%
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 3, August 2023, Clause 5.5
Test procedure	:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024
Test voltage	:	DC 3.3V
Test modes applied	:	A

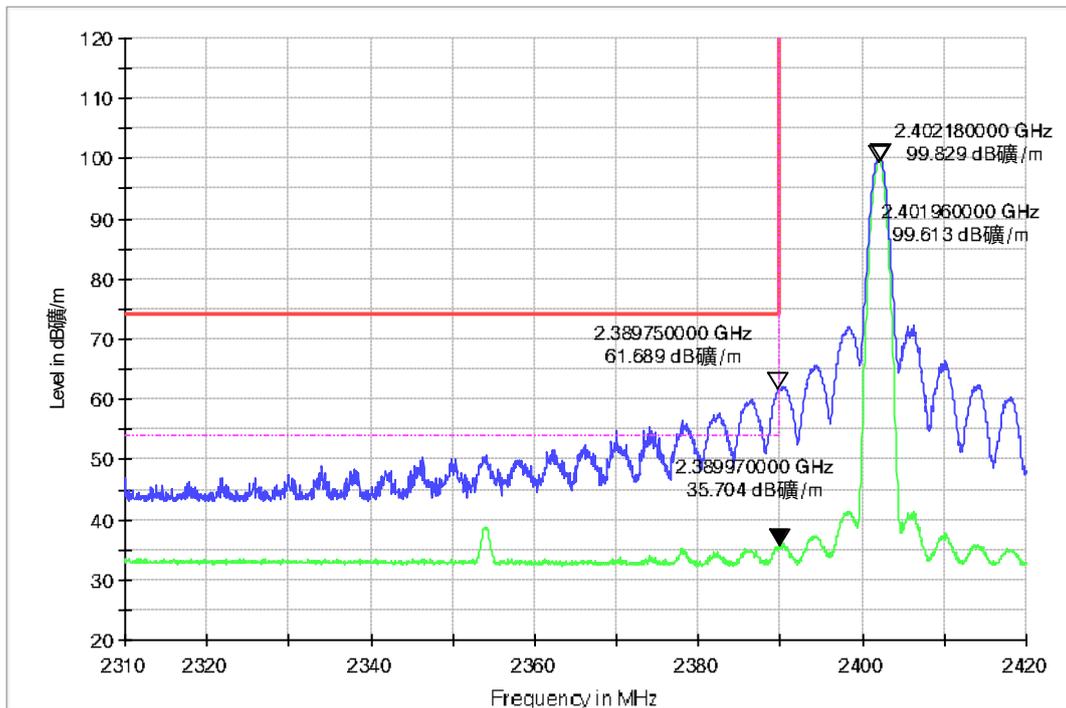
Note:

All the test modes were applied, only the worst case were shown in this report.

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Figure 10: Radiated Band-Edge, 1-DH5, 2402, H

 XXY-2310⁺ 2410 BE 1-18GHz_HL050_FSV40_Pre-10-YUNFANG

Figure 11: Radiated Band-Edge, 1-DH5, 2402, V

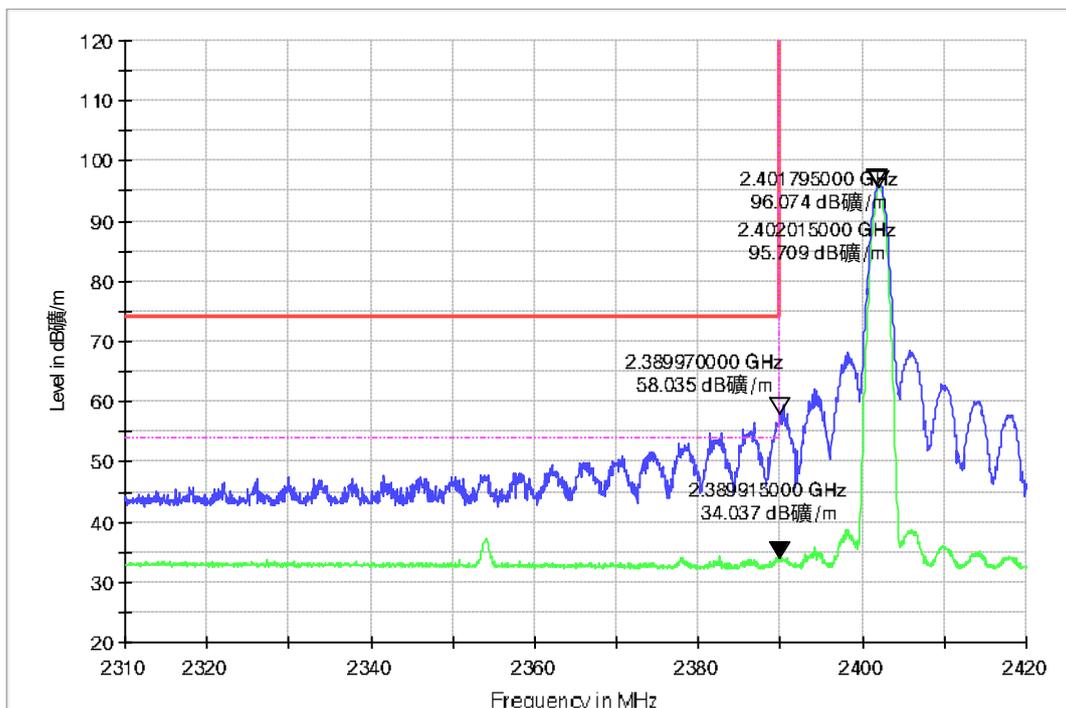
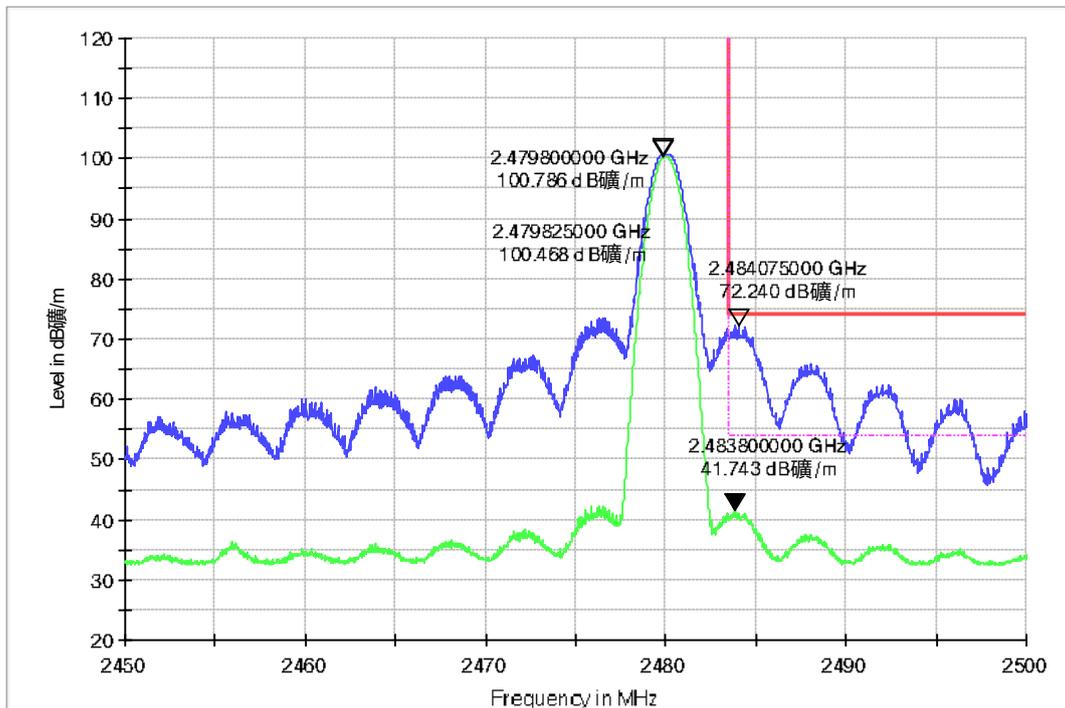
 XXY-2310⁺ 2410 BE 1-18GHz_HL050_FSV40_Pre-10-YUNFANG


Figure 12: Radiated Band-Edge, 1-DH5, 2480, H

XXY-2470° 2500 BE_1-18GHz_HL050_FSV40_Pre-10-YUNFANG


Figure 13: Radiated Band-Edge, 1-DH5, 2480, V

XXY-2470° 2500 BE_1-18GHz_HL050_FSV40_Pre-10-YUNFANG

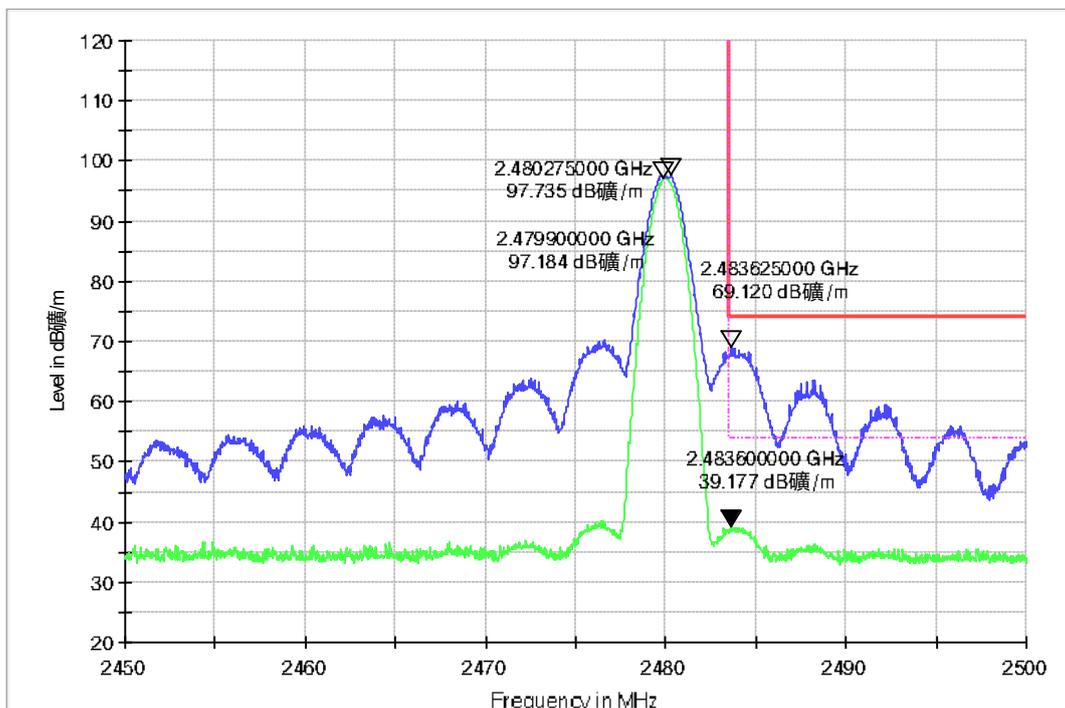
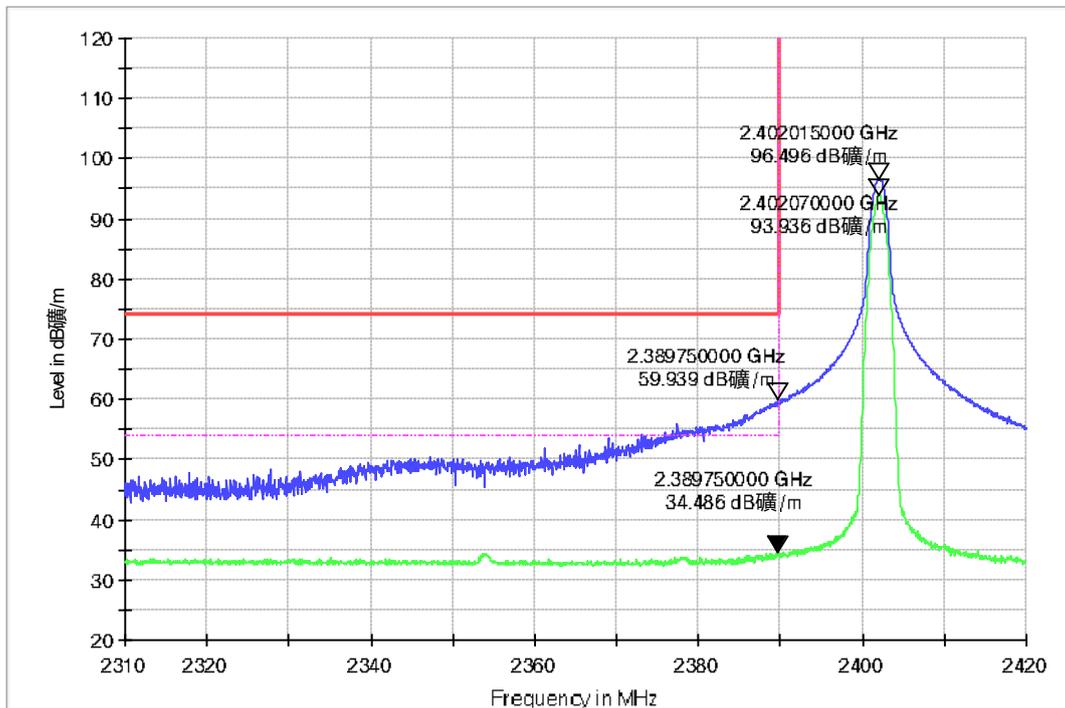


Figure 14: Radiated Band-Edge, 3-DH5, 2402, H

 XXY-2310⁺ 2410 BE 1-18GHz_HL050_FSV40_Pre-10-YUNFANG

Figure 15: Radiated Band-Edge, 3-DH5, 2402, V

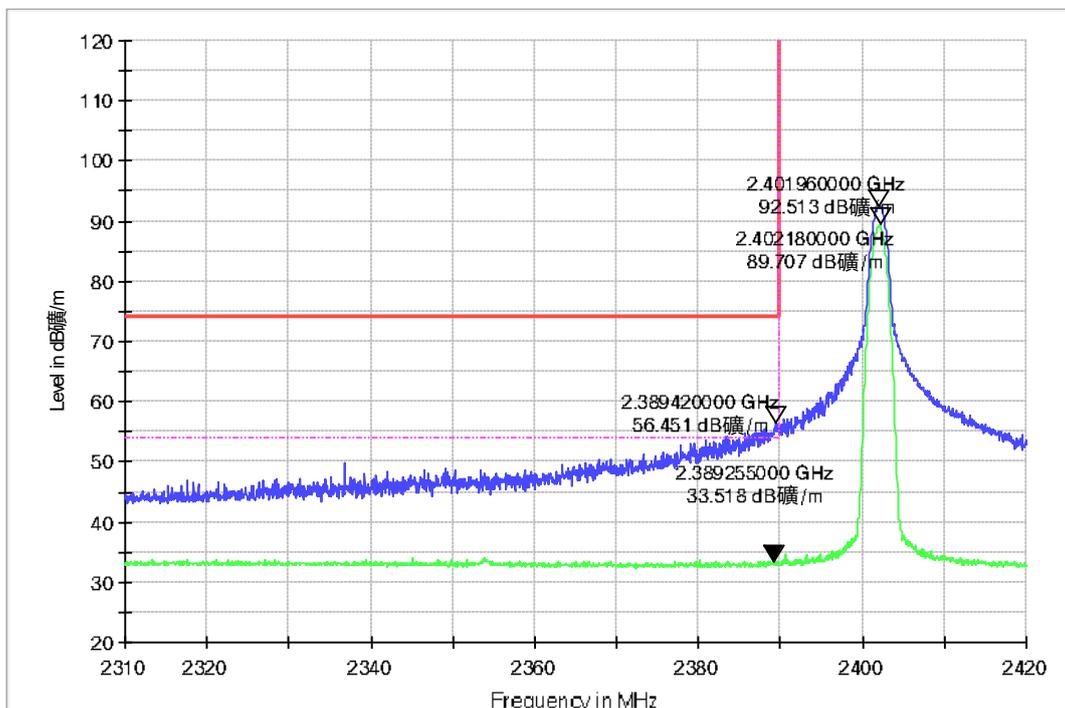
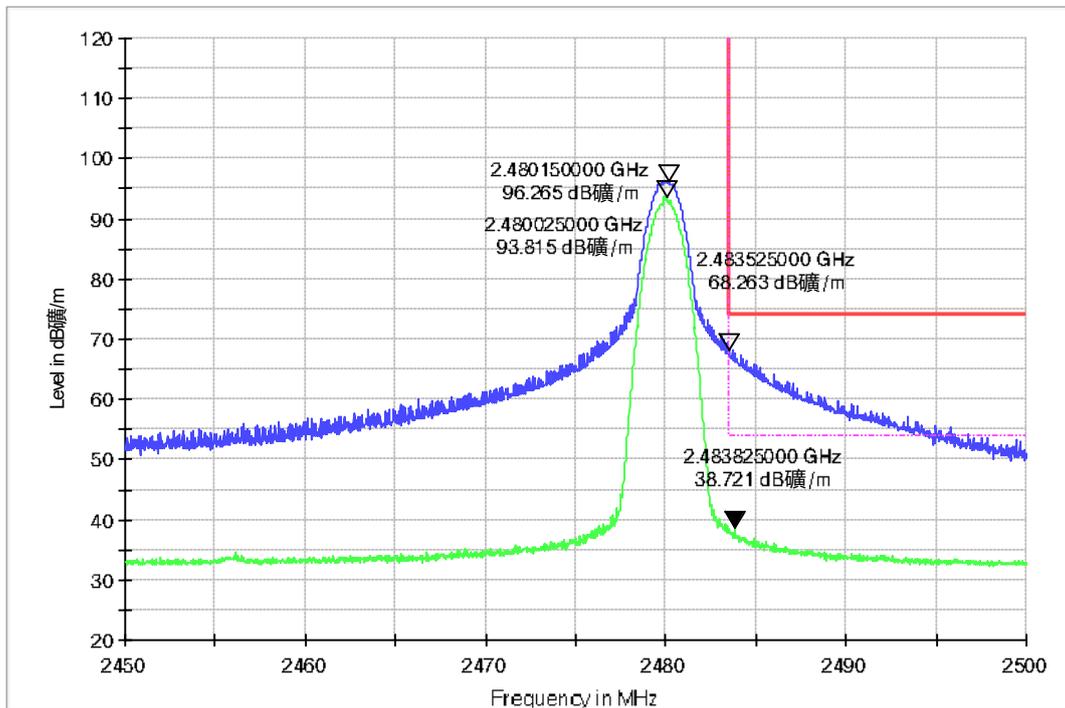
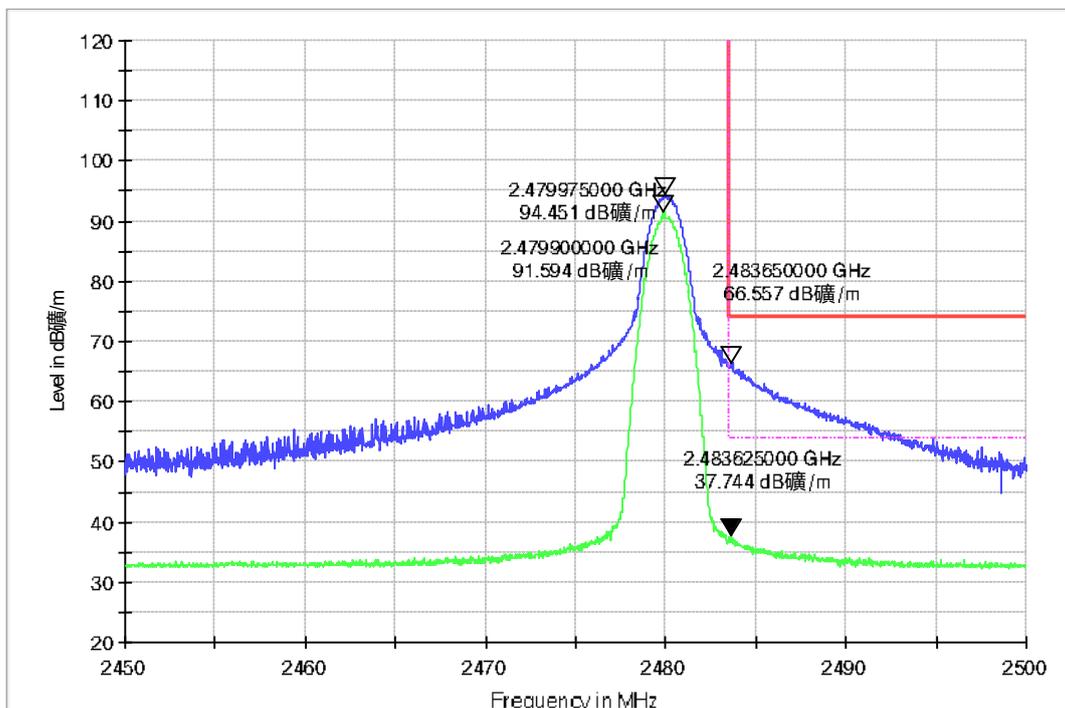
 XXY-2310⁺ 2410 BE 1-18GHz_HL050_FSV40_Pre-10-YUNFANG


Figure 16: Radiated Band-Edge, 3-DH5, 2480, H

XXY-2470° 2500 BE_1-18GHz_HL050_FSV40_Pre-10-YUNFANG


Figure 17: Radiated Band-Edge, 3-DH5, 2480, V

XXY-2470° 2500 BE_1-18GHz_HL050_FSV40_Pre-10-YUNFANG



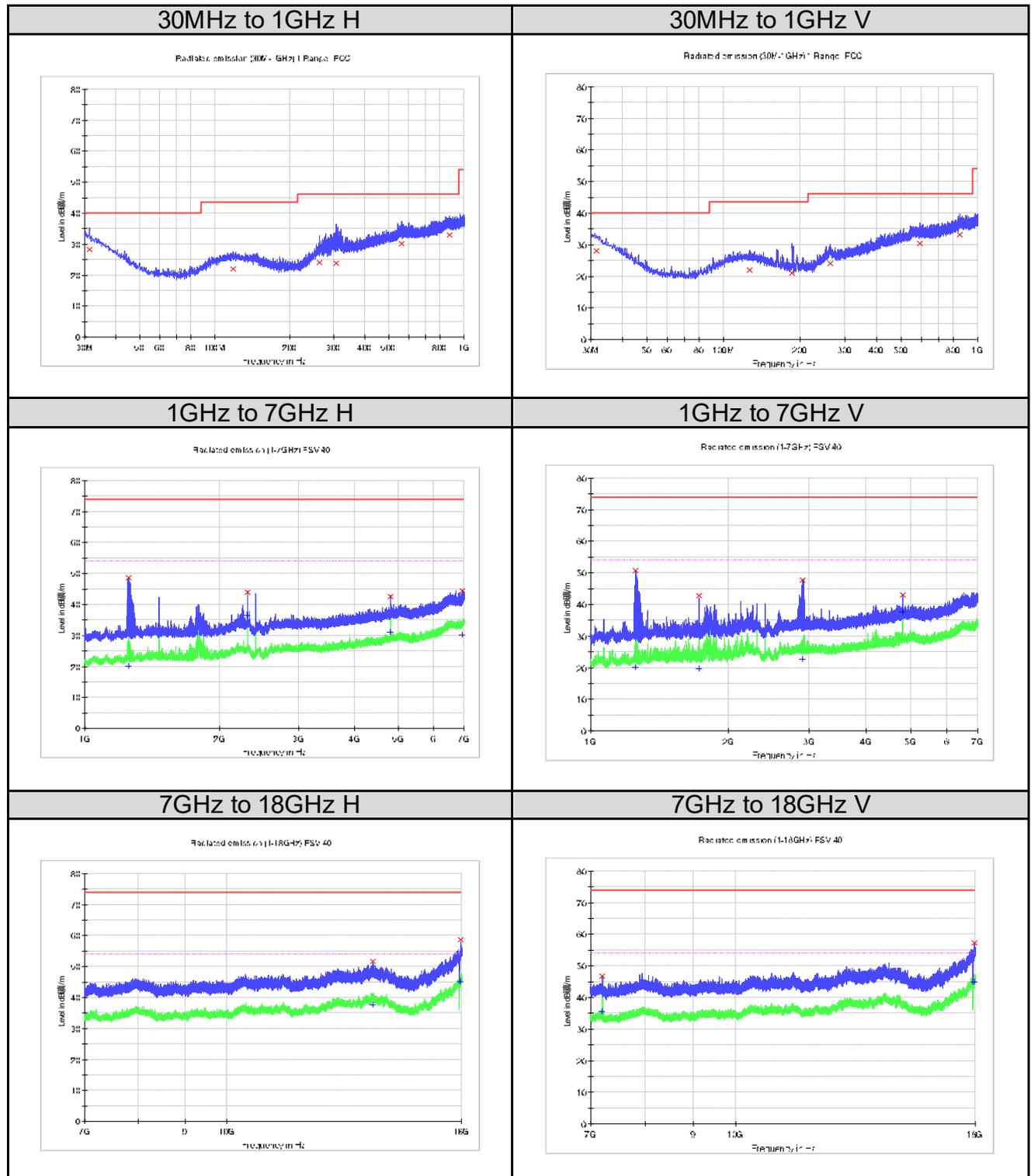
5.3.2 Radiated Spurious Emission

RESULT:**Pass**

Date of testing	:	2025-04-27
Ambient temperature	:	20.3°C
Relative humidity	:	51.6%
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 3, August 2023, Clause 5.5
Test procedure	:	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024
Test voltage	:	DC 3.3V
Test modes applied	:	A
Kind of test site	:	3m Anechoic Chamber

Note:

1. All the test modes were applied, only the worst case were shown in this report.
2. For the frequency range from 18GHz to 25GHz, no emission was found.

Figure 18: Radiated Spurious Emission, 1-DH5, 2402MHz (with ICBL7.2-18-B1 battery)


Limit and Margin
QP

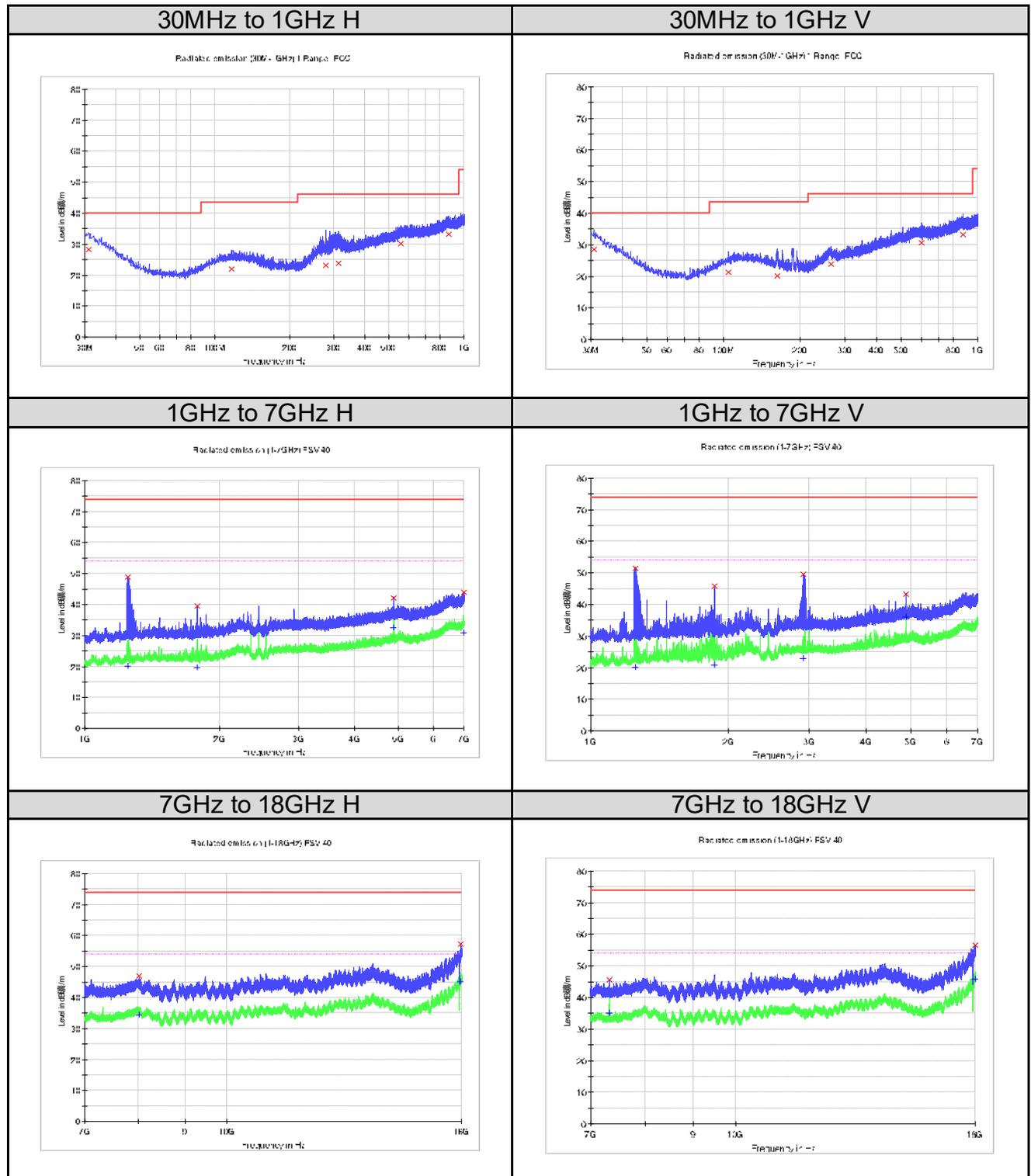
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.333750	28.2	H	24.9	11.8	40.0
118.027500	22.0	H	19.0	21.5	43.5
262.557500	24.1	H	21.0	21.9	46.0
307.420000	23.8	H	20.5	22.3	46.0
561.438750	30.2	H	26.7	15.8	46.0
876.810000	33.1	H	28.5	12.9	46.0
31.576250	28.1	V	24.8	11.9	40.0
126.878750	21.9	V	18.9	21.6	43.5
185.927500	21.1	V	16.0	22.4	43.5
263.163750	24.1	V	21.0	22.0	46.0
593.085000	30.5	V	26.6	15.6	46.0
849.407500	33.2	V	29.0	12.8	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1254.454546	48.8	H	-19.3	25.2	74.0
2305.818182	43.9	H	-15.8	30.1	74.0
4804.545455	42.6	H	-11.4	31.4	74.0
6929.363636	44.4	H	-7.3	29.6	74.0
14409.875000	51.7	H	2.4	22.3	74.0
17970.437500	58.7	H	11.9	15.3	74.0
1250.636364	50.7	V	-19.4	23.3	74.0
1725.727273	42.7	V	-18.9	31.3	74.0
2900.636364	47.6	V	-15.2	26.4	74.0
4804.000000	43.1	V	-11.4	30.9	74.0
7205.562500	46.8	V	-6.1	27.3	74.0
17965.281250	57.2	V	11.8	16.8	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1254.454546	20.1	H	-19.3	33.9	54.0
2305.818182	36.5	H	-15.8	17.5	54.0
4804.545455	31.2	H	-11.4	22.8	54.0
6929.363636	30.2	H	-7.3	23.8	54.0
14409.875000	37.7	H	2.4	16.3	54.0
17970.437500	45.2	H	11.9	8.8	54.0
1250.636364	20.2	V	-19.4	33.9	54.0
1725.727273	19.7	V	-18.9	34.3	54.0
2900.636364	22.7	V	-15.2	31.3	54.0
4804.000000	37.7	V	-11.4	16.3	54.0
7205.562500	35.5	V	-6.1	18.5	54.0
17965.281250	45.0	V	11.8	9.0	54.0

Figure 19: Radiated Spurious Emission, 1-DH5, 2441MHz (with ICBL7.2-18-B1 battery)


Limit and Margin
QP

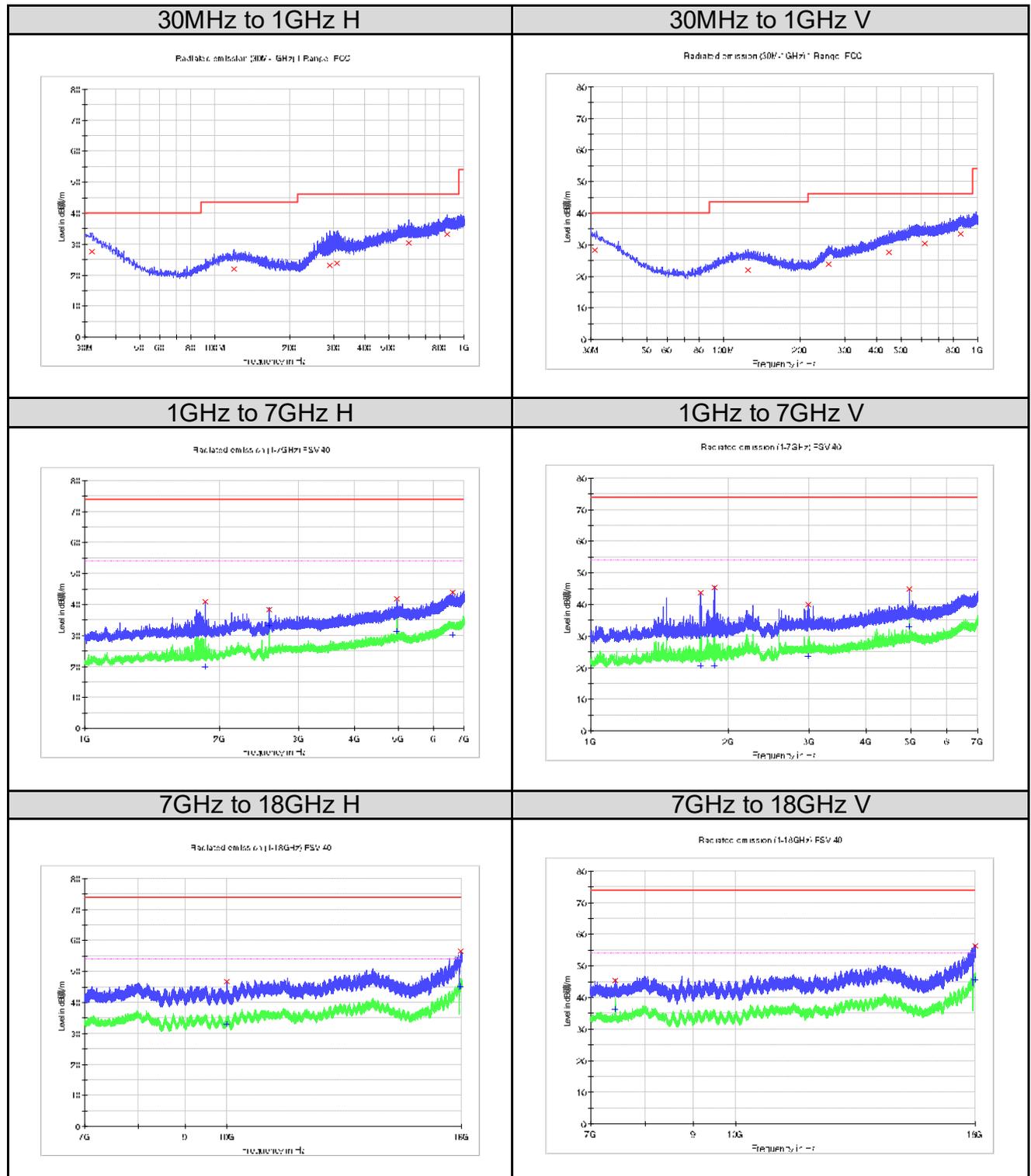
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.091250	28.4	H	25.1	11.6	40.0
116.815000	22.0	H	19.0	21.6	43.5
279.653750	23.2	H	19.9	22.9	46.0
314.331250	23.9	H	20.7	22.1	46.0
556.952500	30.2	H	26.7	15.8	46.0
868.565000	33.2	H	28.7	12.8	46.0
30.848750	28.5	V	25.2	11.6	40.0
104.690000	21.2	V	18.2	22.3	43.5
162.162500	20.1	V	16.9	23.4	43.5
264.618750	23.9	V	20.9	22.1	46.0
599.875000	30.6	V	26.6	15.4	46.0
873.051250	33.2	V	28.6	12.8	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1245.454546	48.9	H	-19.4	25.1	74.0
1782.727273	39.6	H	-18.8	34.4	74.0
4881.727273	42.2	H	-11.3	31.9	74.0
6988.000000	44.1	H	-6.6	29.9	74.0
8015.781250	47.0	H	-3.6	27.0	74.0
17960.812500	57.3	H	11.7	16.7	74.0
1251.454546	51.6	V	-19.3	22.4	74.0
1862.090909	45.8	V	-18.4	28.2	74.0
2917.818182	49.5	V	-15.1	24.5	74.0
4881.727273	43.2	V	-11.3	30.8	74.0
7323.125000	45.7	V	-6.6	28.3	74.0
17983.843750	56.7	V	12.1	17.3	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1245.454546	20.2	H	-19.4	33.9	54.0
1782.727273	19.7	H	-18.8	34.3	54.0
4881.727273	32.5	H	-11.3	21.5	54.0
6988.000000	30.9	H	-6.6	23.1	54.0
8015.781250	34.4	H	-3.6	19.6	54.0
17960.812500	45.1	H	11.7	8.9	54.0
1251.454546	20.1	V	-19.3	33.9	54.0
1862.090909	20.9	V	-18.4	33.1	54.0
2917.818182	23.0	V	-15.1	31.0	54.0
4881.727273	36.1	V	-11.3	17.9	54.0
7323.125000	35.1	V	-6.6	18.9	54.0
17983.843750	45.8	V	12.1	8.2	54.0

Figure 20: Radiated Spurious Emission, 1-DH5, 2480MHz (with ICBL7.2-18-B1 battery)


Limit and Margin
QP

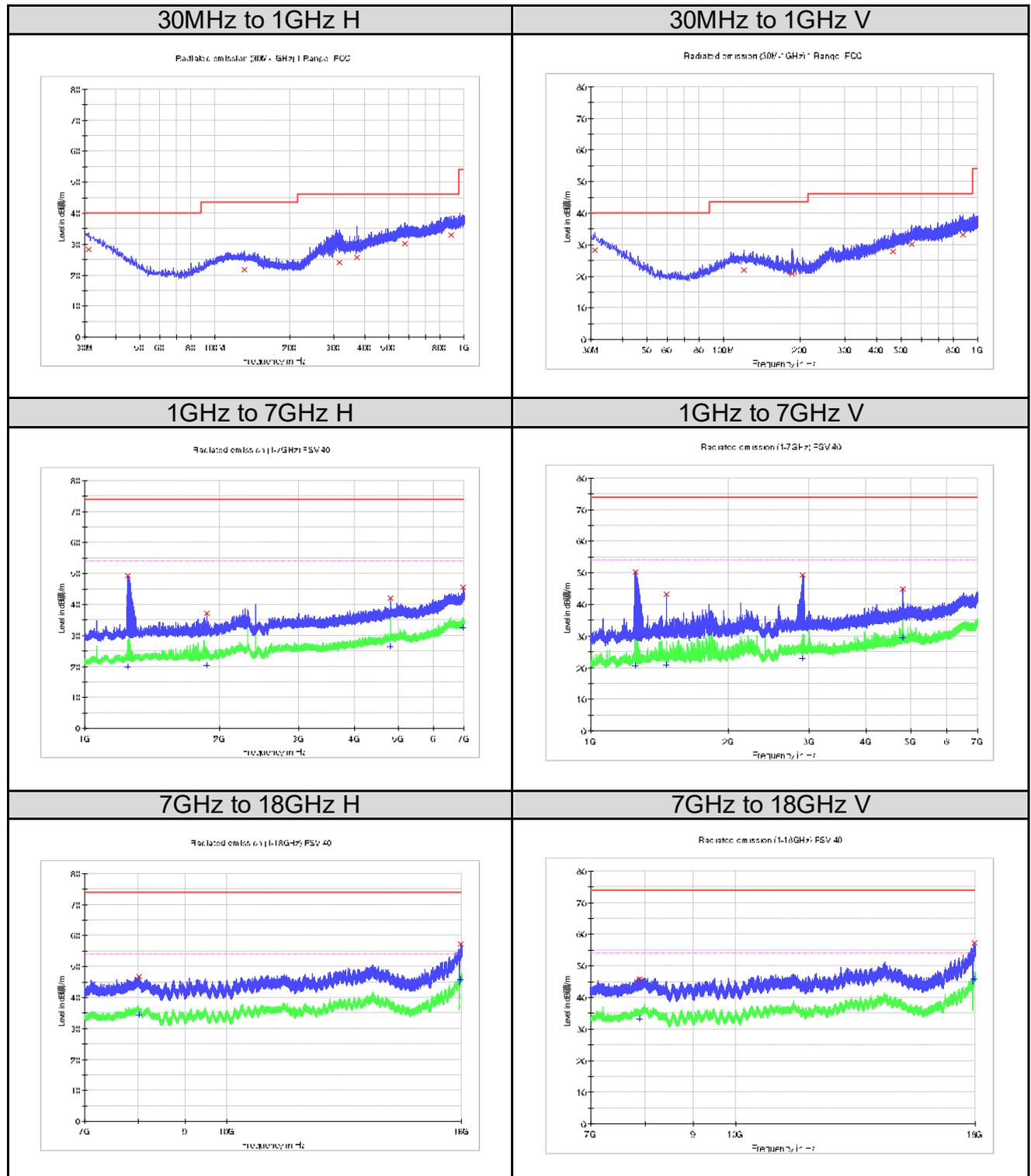
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
32.061250	27.7	H	24.5	12.3	40.0
118.997500	22.0	H	19.0	21.5	43.5
290.323750	23.1	H	20.0	22.9	46.0
309.481250	23.8	H	20.5	22.2	46.0
599.147500	30.4	H	26.6	15.6	46.0
854.500000	33.3	H	29.0	12.7	46.0
31.212500	28.3	V	25.0	11.7	40.0
124.938750	22.0	V	18.9	21.5	43.5
259.405000	23.8	V	20.8	22.2	46.0
447.342500	27.5	V	24.1	18.5	46.0
619.760000	30.3	V	26.8	15.7	46.0
857.895000	33.3	V	29.0	12.7	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1859.636364	41.0	H	-18.4	33.0	74.0
2576.090909	38.3	H	-15.9	35.8	74.0
4959.454546	41.8	H	-11.2	32.2	74.0
6603.454546	44.0	H	-7.7	30.0	74.0
9987.531250	46.9	H	-4.1	27.1	74.0
17961.156250	56.6	H	11.7	17.4	74.0
1737.727273	43.9	V	-18.8	30.2	74.0
1865.636364	45.4	V	-18.4	28.6	74.0
2986.000000	40.0	V	-15.1	34.0	74.0
4959.727273	44.8	V	-11.2	29.2	74.0
7439.312500	45.5	V	-6.1	28.5	74.0
17988.312500	56.4	V	12.2	17.6	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1859.636364	20.0	H	-18.4	34.0	54.0
2576.090909	33.1	H	-15.9	20.9	54.0
4959.454546	31.3	H	-11.2	22.7	54.0
6603.454546	30.1	H	-7.7	23.9	54.0
9987.531250	33.0	H	-4.1	21.0	54.0
17961.156250	45.2	H	11.7	8.8	54.0
1737.727273	20.5	V	-18.8	33.5	54.0
1865.636364	20.7	V	-18.4	33.3	54.0
2986.000000	23.6	V	-15.1	30.4	54.0
4959.727273	33.0	V	-11.2	21.0	54.0
7439.312500	36.2	V	-6.1	17.8	54.0
17988.312500	45.6	V	12.2	8.4	54.0

Figure 21: Radiated Spurious Emission, 3-DH5, 2402MHz (with ICBL7.2-18-B1 battery)


Limit and Margin
QP

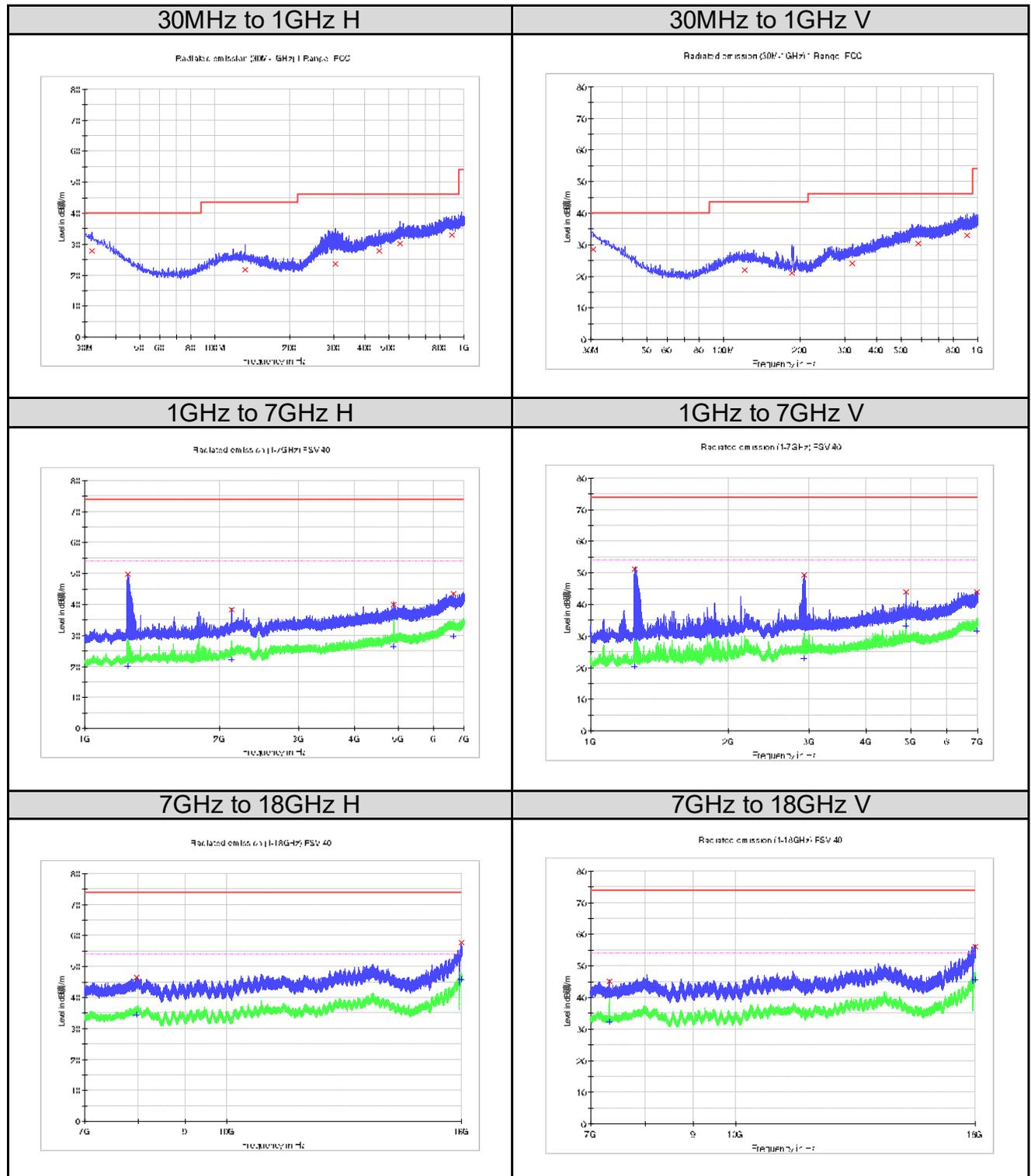
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
31.091250	28.4	H	25.1	11.6	40.0
131.728750	21.7	H	18.7	21.8	43.5
316.271250	24.0	H	20.7	22.0	46.0
372.046250	25.8	H	22.1	20.2	46.0
579.020000	30.3	H	26.6	15.7	46.0
887.116250	33.0	H	28.5	13.0	46.0
31.091250	28.4	V	25.1	11.6	40.0
120.573750	22.0	V	19.0	21.5	43.5
186.048750	20.8	V	16.0	22.7	43.5
463.468750	27.9	V	24.6	18.1	46.0
550.041250	30.1	V	26.5	15.9	46.0
874.021250	33.2	V	28.6	12.9	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1248.454546	49.2	H	-19.4	24.8	74.0
1874.636364	37.1	H	-18.4	36.9	74.0
4801.818182	42.1	H	-11.4	31.9	74.0
6974.363636	45.6	H	-6.8	28.4	74.0
8022.656250	46.7	H	-3.6	27.3	74.0
17975.937500	57.4	H	12.0	16.6	74.0
1254.727273	50.3	V	-19.3	23.8	74.0
1464.454546	43.3	V	-18.7	30.7	74.0
2906.636364	49.4	V	-15.2	24.6	74.0
4803.454546	44.8	V	-11.4	29.2	74.0
7894.781250	45.9	V	-4.0	28.1	74.0
17974.906250	57.4	V	11.9	16.6	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1248.454546	20.0	H	-19.4	34.1	54.0
1874.636364	20.4	H	-18.4	33.6	54.0
4801.818182	26.5	H	-11.4	27.6	54.0
6974.363636	32.6	H	-6.8	21.4	54.0
8022.656250	34.3	H	-3.6	19.7	54.0
17975.937500	45.8	H	12.0	8.2	54.0
1254.727273	20.6	V	-19.3	33.4	54.0
1464.454546	20.8	V	-18.7	33.2	54.0
2906.636364	22.9	V	-15.2	31.1	54.0
4803.454546	29.6	V	-11.4	24.4	54.0
7894.781250	33.3	V	-4.0	20.7	54.0
17974.906250	45.8	V	11.9	8.2	54.0

Figure 22: Radiated Spurious Emission, 3-DH5, 2441MHz (with ICBL7.2-18-B1 battery)


Limit and Margin
QP

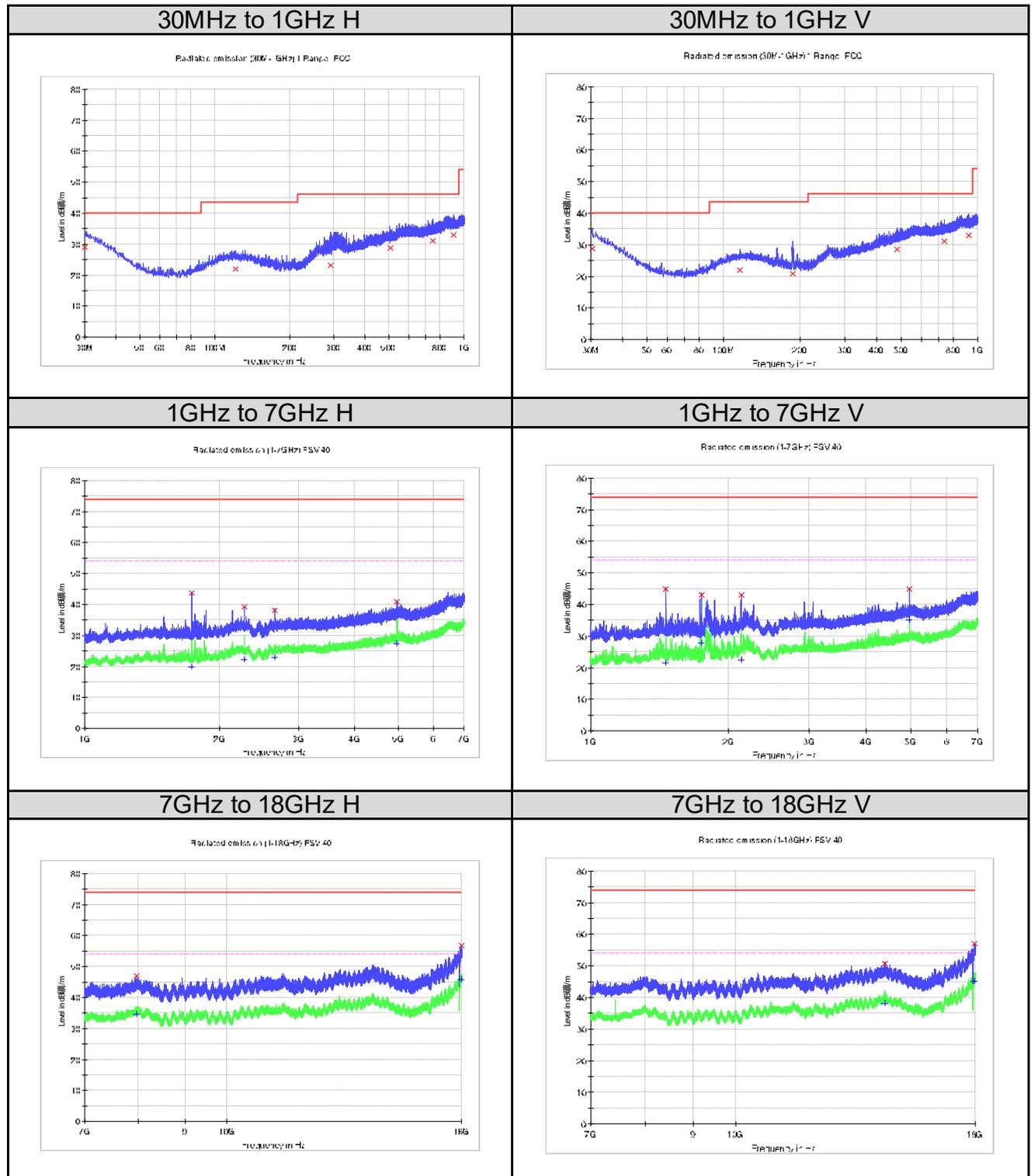
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
32.061250	27.7	H	24.5	12.3	40.0
131.971250	21.7	H	18.7	21.8	43.5
304.510000	23.7	H	20.4	22.3	46.0
456.072500	27.7	H	24.3	18.3	46.0
551.981250	30.1	H	26.6	15.9	46.0
892.572500	33.1	H	28.5	13.0	46.0
30.606250	28.6	V	25.3	11.4	40.0
121.301250	22.0	V	19.0	21.5	43.5
185.806250	21.1	V	16.0	22.4	43.5
321.363750	24.1	V	20.9	21.9	46.0
582.415000	30.4	V	26.6	15.6	46.0
905.303750	33.0	V	28.6	13.0	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1246.000000	49.9	H	-19.4	24.1	74.0
2124.454546	38.3	H	-16.6	35.7	74.0
4880.363636	39.9	H	-11.3	34.1	74.0
6626.909091	43.5	H	-7.7	30.5	74.0
7969.375000	46.5	H	-3.6	27.5	74.0
17982.812500	57.8	H	12.1	16.2	74.0
1248.454546	51.3	V	-19.4	22.7	74.0
2925.454546	49.4	V	-15.1	24.6	74.0
4881.727273	44.0	V	-11.3	30.0	74.0
6975.181818	44.1	V	-6.8	29.9	74.0
7322.781250	45.2	V	-6.6	28.9	74.0
17988.312500	56.2	V	12.2	17.8	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1246.000000	20.1	H	-19.4	33.9	54.0
2124.454546	22.2	H	-16.6	31.8	54.0
4880.363636	26.4	H	-11.3	27.6	54.0
6626.909091	29.8	H	-7.7	24.2	54.0
7969.375000	34.3	H	-3.6	19.7	54.0
17982.812500	45.9	H	12.1	8.1	54.0
1248.454546	20.3	V	-19.4	33.7	54.0
2925.454546	23.0	V	-15.1	31.0	54.0
4881.727273	33.3	V	-11.3	20.7	54.0
6975.181818	31.5	V	-6.8	22.5	54.0
7322.781250	32.3	V	-6.6	21.7	54.0
17988.312500	45.6	V	12.2	8.4	54.0

Figure 23: Radiated Spurious Emission, 3-DH5, 2480MHz (with ICBL7.2-18-B1 battery)


Limit and Margin
QP

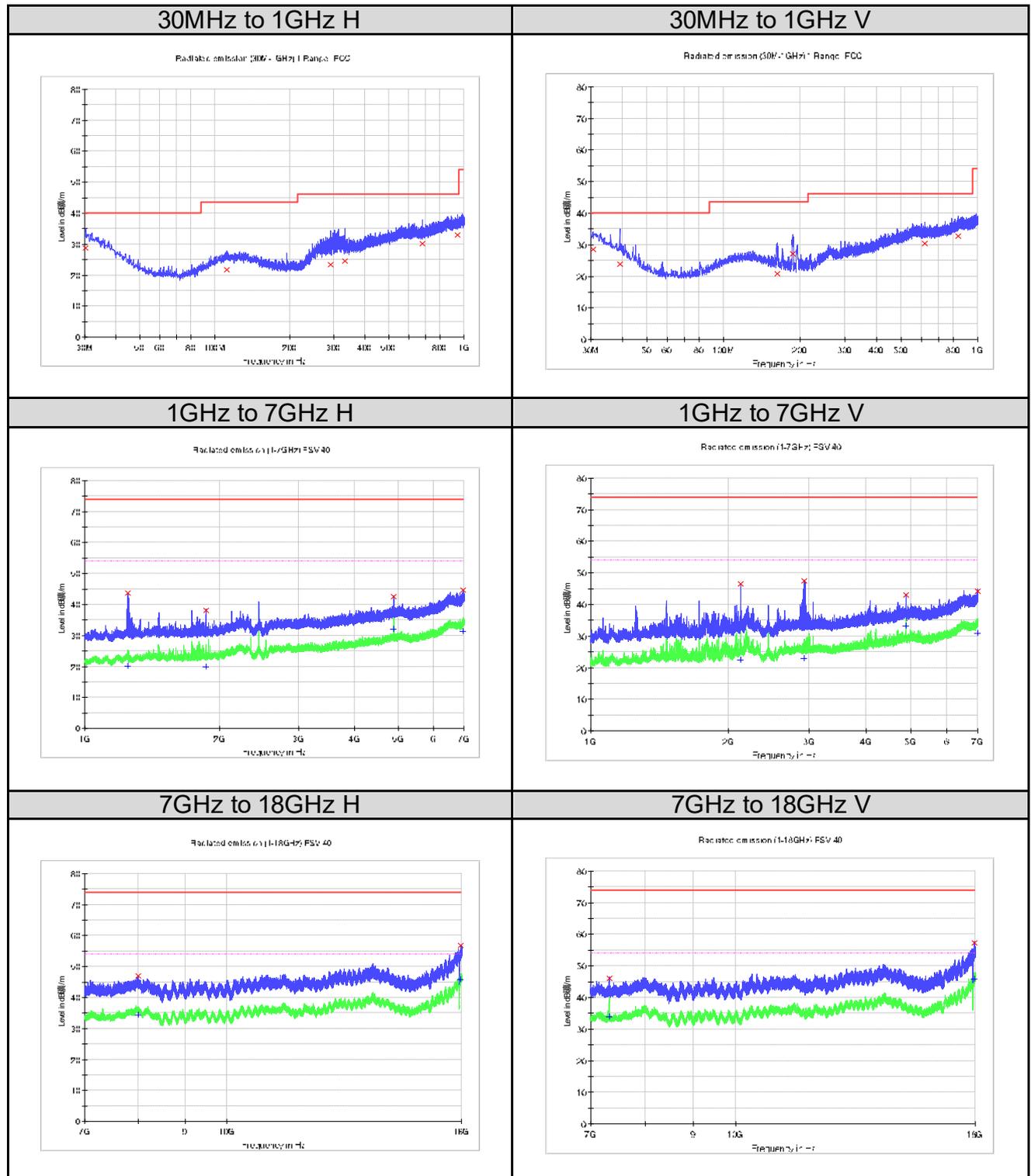
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.000000	29.0	H	25.7	11.0	40.0
121.180000	21.9	H	19.0	21.6	43.5
291.536250	23.2	H	20.0	22.8	46.0
508.695000	28.7	H	25.3	17.3	46.0
752.165000	31.2	H	27.6	14.8	46.0
909.790000	33.0	H	28.7	13.0	46.0
30.363750	28.7	V	25.5	11.3	40.0
116.087500	22.0	V	19.0	21.5	43.5
186.897500	20.8	V	16.0	22.7	43.5
480.201250	28.5	V	25.0	17.6	46.0
736.402500	31.1	V	27.5	14.9	46.0
923.006250	33.0	V	28.7	13.0	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1732.818182	43.8	H	-18.9	30.2	74.0
2265.181818	39.2	H	-15.7	34.8	74.0
2655.727273	38.2	H	-15.6	35.8	74.0
4958.090909	41.0	H	-11.2	33.0	74.0
7977.968750	47.1	H	-3.6	26.9	74.0
17982.125000	56.9	H	12.1	17.1	74.0
1460.636364	45.0	V	-18.7	29.0	74.0
1744.272727	43.1	V	-18.8	30.9	74.0
2132.090909	43.0	V	-16.5	31.0	74.0
4960.000000	44.9	V	-11.2	29.1	74.0
14406.781250	50.8	V	2.4	23.3	74.0
17961.156250	57.0	V	11.7	17.0	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1732.818182	19.8	H	-18.9	34.2	54.0
2265.181818	22.2	H	-15.7	31.8	54.0
2655.727273	22.8	H	-15.6	31.2	54.0
4958.090909	27.5	H	-11.2	26.5	54.0
7977.968750	34.6	H	-3.6	19.4	54.0
17982.125000	45.8	H	12.1	8.2	54.0
1460.636364	21.5	V	-18.7	32.5	54.0
1744.272727	27.7	V	-18.8	26.3	54.0
2132.090909	22.4	V	-16.5	31.6	54.0
4960.000000	35.0	V	-11.2	19.0	54.0
14406.781250	38.1	V	2.4	15.9	54.0
17961.156250	45.3	V	11.7	8.7	54.0

Figure 24: Radiated Spurious Emission, 1-DH5, 2441MHz (with ICBL7.2-18-USB-C-B1 battery)


Limit and Margin
QP

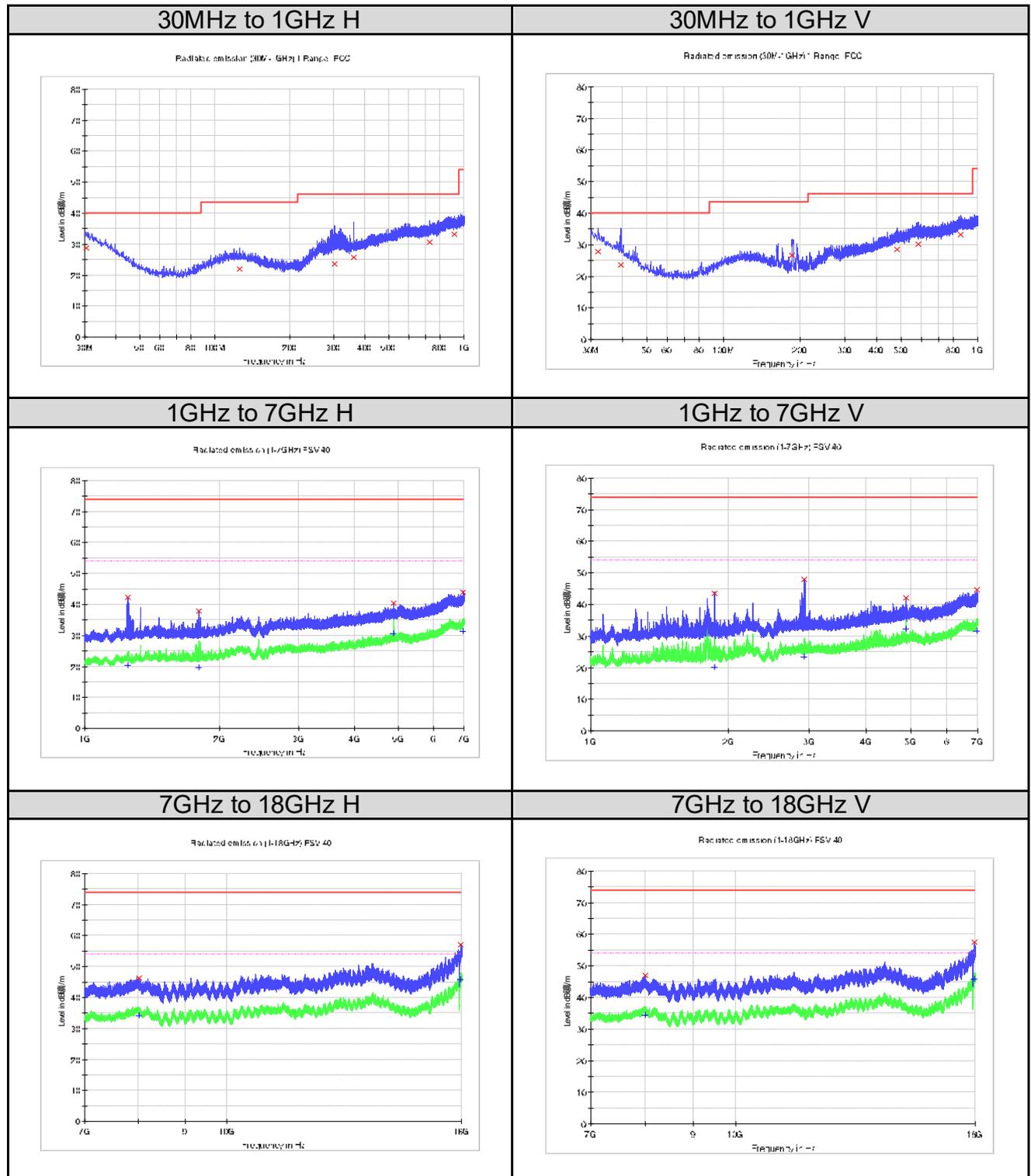
Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.242500	28.8	H	25.5	11.2	40.0
111.722500	21.7	H	18.8	21.8	43.5
290.808750	23.4	H	20.0	22.6	46.0
331.791250	24.6	H	21.1	21.4	46.0
683.416250	30.3	H	26.7	15.8	46.0
943.133750	33.1	H	28.8	12.9	46.0
30.606250	28.6	V	25.3	11.4	40.0
39.093750	23.8	V	20.5	16.2	40.0
162.405000	20.8	V	16.9	22.7	43.5
187.140000	27.1	V	16.0	16.4	43.5
620.123750	30.4	V	26.8	15.6	46.0
837.403750	32.7	V	28.7	13.3	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1247.090909	43.8	H	-19.4	30.2	74.0
1860.454546	38.2	H	-18.4	35.8	74.0
4882.272727	42.7	H	-11.3	31.3	74.0
6976.545455	44.7	H	-6.8	29.3	74.0
8008.906250	47.0	H	-3.5	27.0	74.0
17979.375000	56.8	H	12.0	17.2	74.0
2129.090909	46.5	V	-16.6	27.6	74.0
2927.363636	47.5	V	-15.1	26.5	74.0
4881.454546	43.0	V	-11.3	31.0	74.0
6991.545455	44.2	V	-6.6	29.8	74.0
7322.437500	46.1	V	-6.6	27.9	74.0
17976.281250	57.4	V	12.0	16.6	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1247.090909	20.2	H	-19.4	33.8	54.0
1860.454546	19.8	H	-18.4	34.2	54.0
4882.272727	32.1	H	-11.3	21.9	54.0
6976.545455	31.4	H	-6.8	22.6	54.0
8008.906250	34.4	H	-3.5	19.6	54.0
17979.375000	45.9	H	12.0	8.1	54.0
2129.090909	22.4	V	-16.6	31.6	54.0
2927.363636	23.0	V	-15.1	31.0	54.0
4881.454546	33.2	V	-11.3	20.9	54.0
6991.545455	30.9	V	-6.6	23.1	54.0
7322.437500	33.9	V	-6.6	20.2	54.0
17976.281250	45.9	V	12.0	8.1	54.0

Figure 25: Radiated Spurious Emission, 3-DH5, 2441MHz (with ICBL7.2-18-USB-C-B1 battery)


Limit and Margin
QP

Frequency (MHz)	QuasiPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
30.363750	28.8	H	25.5	11.3	40.0
125.302500	21.9	H	18.9	21.6	43.5
302.933750	23.7	H	20.4	22.3	46.0
360.042500	25.8	H	22.0	20.2	46.0
729.370000	30.8	H	27.3	15.3	46.0
915.003750	33.1	H	28.8	12.9	46.0
32.061250	27.8	V	24.5	12.2	40.0
39.457500	23.6	V	20.3	16.4	43.5
186.291250	26.6	V	16.0	16.9	43.5
480.443750	28.5	V	25.0	17.5	46.0
582.415000	30.3	V	26.6	15.7	46.0
853.651250	33.3	V	29.0	12.7	46.0

PK

Frequency (MHz)	MaxPeak (dBµV/m)	Pol	Corr. (dB/m)	Margin - PK+ (dB)	Limit - PK+ (dBµV/m)
1245.727273	42.3	H	-19.4	31.7	74.0
1796.909091	38.0	H	-18.8	36.0	74.0
4882.000000	40.5	H	-11.3	33.5	74.0
6977.636364	44.0	H	-6.8	30.0	74.0
8020.250000	46.4	H	-3.6	27.6	74.0
17975.250000	57.0	H	11.9	17.0	74.0
1860.727273	43.5	V	-18.4	30.5	74.0
2921.363636	47.9	V	-15.1	26.1	74.0
4881.727273	42.2	V	-11.3	31.8	74.0
6976.272727	44.6	V	-6.8	29.4	74.0
8007.187500	47.0	V	-3.5	27.0	74.0
17978.687500	57.7	V	12.0	16.3	74.0

AV

Frequency (MHz)	Average (dBµV/m)	Pol	Corr. (dB/m)	Margin - AVG (dB)	Limit - AVG (dBµV/m)
1245.727273	20.3	H	-19.4	33.7	54.0
1796.909091	19.6	H	-18.8	34.4	54.0
4882.000000	30.5	H	-11.3	23.5	54.0
6977.636364	31.4	H	-6.8	22.6	54.0
8020.250000	34.1	H	-3.6	19.9	54.0
17975.250000	45.9	H	11.9	8.2	54.0
1860.727273	20.2	V	-18.4	33.8	54.0
2921.363636	23.4	V	-15.1	30.6	54.0
4881.727273	32.4	V	-11.3	21.6	54.0
6976.272727	31.6	V	-6.8	22.4	54.0
8007.187500	34.5	V	-3.5	19.5	54.0
17978.687500	45.9	V	12.0	8.1	54.0

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