

Prüfbericht-Nr.: Test report no.:	CN241ZKW 001	Auftrags-Nr.: Order no.:	168482523	Page 1 of 25 Seite 1 von 25
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2024-05-08	
Auftraggeber: Client:	Harman Professional, Inc. 8500 Balboa Blvd, Northridge, California, 91325, United States			
Prüfgegenstand: Test item:	Professional SoundBar			
Bezeichnung / Typ-Nr.: Identification / Type no.:	PSB-2 (Trademark: JBL)			
Auftrags-Inhalt: Order content:	Type test			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247-Issue 3 August 2023 CFR47 FCC Part 15: Subpart C Section 15.207 RSS-Gen Issue 5 March 2019 CFR47 FCC Part 15: Subpart C Section 15.209			
Wareneingangsdatum: Date of sample receipt:	2024-05-08	Refer to photos document		
Prüfmuster-Nr.: Test sample no.:	A003712673-001			
Prüfzeitraum: Testing period:	2024-05-08 – 2024-06-20			
Ort der Prüfung: Place of testing:	See Section 2.1			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:			genehmigt von: authorized by:	
Datum: Date:	2024-07-17 Signed by: Harry W. C. Wu		Ausstellungsdatum: Issue date:	2024-07-17 Signed by: Alex Lan
Stellung / Position:	Project Manager		Stellung / Position:	Reviewer
Sonstiges / Other:	FCC ID: 2AUHEPSB2 IC: 6132C-PSB2 HVIN: PSB-2			
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 above mentioned 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>				

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Remarks
Anmerkungen

1	The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request. <i>Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben.</i> <i>Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden.</i>
2	As contractually agreed, this document has been signed digitally only. TÜV Rheinland has not verified and unable to verify which legal or other pertaining requirements are applicable for this document. Such verification is within the responsibility of the user of this document. Upon request by its client, TÜV Rheinland can confirm the validity of the digital signature by a separate document. Such request shall be addressed to our Sales department. An environmental fee for such additional service will be charged. <i>Wie vertraglich vereinbart, wurde dieses Dokument nur digital unterzeichnet. Der TÜV Rheinland hat nicht überprüft, welche rechtlichen oder sonstigen diesbezüglichen Anforderungen für dieses Dokument gelten. Diese Überprüfung liegt in der Verantwortung des Benutzers dieses Dokuments. Auf Verlangen des Kunden kann der TÜV Rheinland die Gültigkeit der digitalen Signatur durch ein gesondertes Dokument bestätigen. Diese Anfrage ist an unseren Vertrieb zu richten. Eine Umweltgebühr für einen solchen zusätzlichen Service wird erhoben.</i>
3	Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report. <i>Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt.</i>
4	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 115:2021, 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>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 115:2021, 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 bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019.</i>

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Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 99% BANDWIDTH

RESULT: Pass

5.1.4 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH

RESULT: Pass

5.1.5 RADIATED SPURIOUS EMISSION

RESULT: Pass

5.1.6 20dB BANDWIDTH

RESULT: Pass

5.1.7 CARRIER FREQUENCY SEPARATION

RESULT: Pass

5.1.8 FREQUENCY STABILITY

RESULT: Pass

5.1.9 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.10 TIME OF OCCUPANCY

RESULT: Pass

5.1.11 CONDUCTED EMISSION ON AC MAINS

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: Test Results of Classical Bluetooth.

Appendix B: Photographs of the Test Set-up.

2 Test Sites

2.1 Test Facilities

Radio Spectrum Testing and Unwanted Emission Testing were tested in

TÜV Rheinland (Shenzhen) Co., Ltd.

No.362, Huanguan Middle Road, Songyuansha Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China/518110

FCC Registration No.: 694916

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

Conducted Emission was tested in

Shenzhen Academy of Metrology and Quality Inspection

NETC Building, No. 4 Tongfa Road, Xili, Nanshan District, Shenzhen, Guangdong, 518055, People's Republic of China

FCC Registration No.: 582918

IC Registration No.: 11177A

The test at the test site had been conducted under the supervision of a TÜV engineer.

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2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (TS8997)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
Wireless Connectivity Tester	R&S	CMW270	101375	25.07.2024
Signal Analyzer	R&S	FSV 40	101441	25.07.2024
Vector Signal Generator	R&S	SMBV100A	263301	25.07.2024
Signal Generator	R&S	SMB100A	115186	25.07.2024
OSP	R&S	OSP 150	101017	13.11.2024
Control PC	DELL	OptiPlex 7050	FTJZ9P2	N/A
Test Software	R&S	WMS32 (V11.00.00)	N/A	N/A
Power Meter	R&S	NRP2	107105	13.11.2024
Power Sensor	R&S	NRP-Z81	105677	25.07.2024
Humid & Temp Programmable Tester	BOST	NTH090-60	19040801	28.02.2025
Shielding Room	Albatross	SR8	APC17151-SR8	22.06.2024
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	25.07.2024
Signal Analyzer	R&S	FSV 40	101439	25.07.2024
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	25.07.2024
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	25.07.2024
Amplifier	R&S	SCU-18F	180070	25.07.2024
Amplifier	R&S	SCU40A	100475	25.07.2024
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	06.08.2024
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	06.08.2024
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	27.08.2024
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	06.08.2024
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A
3m Semi-Anechoic Chamber	Albatross	SAC-3m	APC17151-SAC	22.06.2024
Conducted Emission on AC Mains				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESCS30	SB3319	2024-10-25
Artificial Mains Network	R&S	ESH3-Z5	SB2604	2025-01-12
EMC32 test software	R&S	EMC32	N/A	N/A

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2.3 Traceability

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

2.4 Calibration

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

2.5 Measurement Uncertainty

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

Parameter	Uncertainty (k=2)
Occupied Channel Bandwidth	$\pm 2.08 \%$
RF output power, conducted	$\pm 0.99 \text{ dB}$
RF power density, conducted	$\pm 0.99 \text{ dB}$
Unwanted Emissions, conducted	$\pm 0.89 \text{ dB}$
All emissions, radiated	$\pm 4.17 \text{ dB}$
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	$\pm 3.70 \text{ dB} / \pm 3.30 \text{ dB}$

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

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

Shenzhen Academy of Metrology and Quality Inspection Test facility located at NETC Building, No. 4 Tongfa Road, Xili, Nanshan District, Shenzhen, Guangdong, 518055, People's Republic of China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The EUT is a Bluetooth SoundBar, which supports Classical Bluetooth mode technology.

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

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment	Professional SoundBar
Type Designation	PSB-2
Trademark	JBL
FCC ID	2AUHEPSB2
IC	6132C-PSB2
HVIN	PSB-2
Extreme Temperature Range	0°C to +45°C
Operating Voltage	Input: AC100-240V, 50/60Hz, 40W
Technical Specification of Classical Bluetooth	
Bluetooth Core Version	Bluetooth 5.3
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	79 channels
Channel separation	1MHz
Modulation	GFSK, $\pi/4$ DQPSK, 8DPSK
Antenna Type	FPC Antenna
Antenna Gain	1.93 dBi (Provided by the Client)

Table 3: RF Channel and Frequency of Classic Bluetooth

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	20	2422.00	40	2442.00	60	2462.00
01	2403.00	21	2423.00	41	2443.00	61	2463.00
02	2404.00	22	2424.00	42	2444.00	62	2464.00
03	2405.00	23	2425.00	43	2445.00	63	2465.00
04	2406.00	24	2426.00	44	2446.00	64	2466.00
05	2407.00	25	2427.00	45	2447.00	65	2467.00
06	2408.00	26	2428.00	46	2448.00	66	2468.00
07	2409.00	27	2429.00	47	2449.00	67	2469.00
08	2410.00	28	2430.00	48	2450.00	68	2470.00
09	2411.00	29	2431.00	49	2451.00	69	2471.00
10	2412.00	30	2432.00	50	2452.00	70	2472.00
11	2413.00	31	2433.00	51	2453.00	71	2473.00
12	2414.00	32	2434.00	52	2454.00	72	2474.00
13	2415.00	33	2435.00	53	2455.00	73	2475.00
14	2416.00	34	2436.00	54	2456.00	74	2476.00
15	2417.00	35	2437.00	55	2457.00	75	2477.00
16	2418.00	36	2438.00	56	2458.00	76	2478.00
17	2419.00	37	2439.00	57	2459.00	77	2479.00
18	2420.00	38	2440.00	58	2460.00	78	2480.00
19	2421.00	39	2441.00	59	2461.00	--	--

3.3 Independent Operation Modes

The basic operation modes are:

A. On

1. Bluetooth transmitting mode (BR & EDR mode)

a) Low Channel

b) Middle Channel

c) High Channel

B. On, Transmitting on Hopping channel

C. Off

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3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- Block Diagram
- Schematics
- Technical Description
- FCC/IC Label and Location Info
- Photo Document
- User Manual

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4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

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

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

4.2 Test Operation and Test Software

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

According to clause 3.1, all test items were applied on model PSB-2.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

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

4.4 Countermeasures to Achieve EMC Compliance

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

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 30MHz)

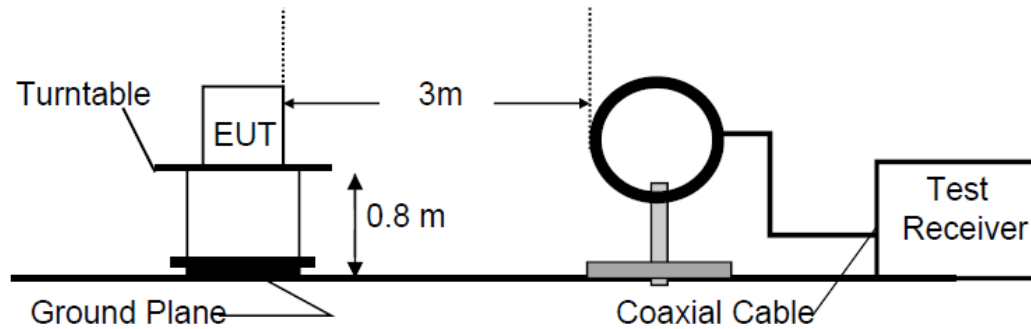


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

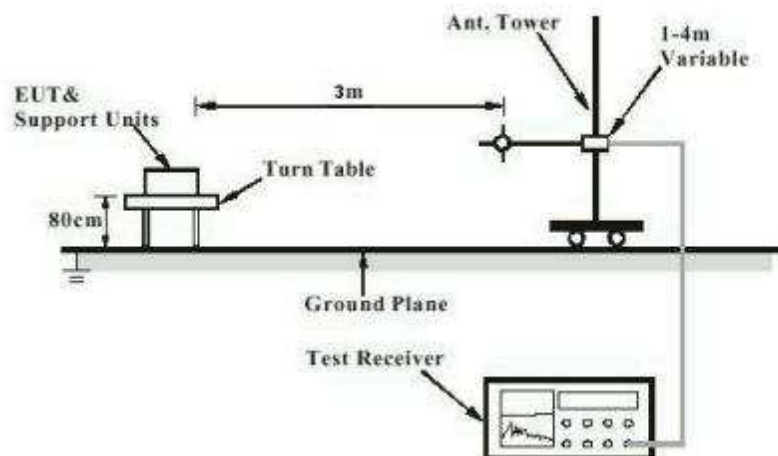


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

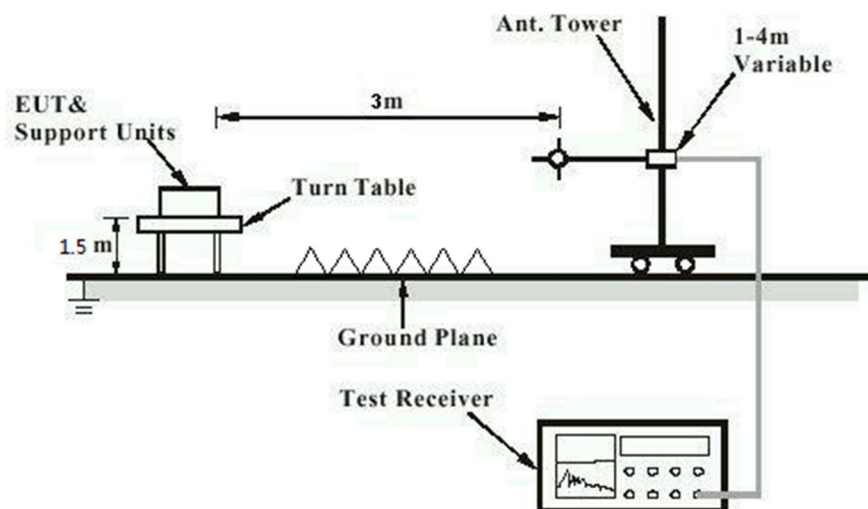


Diagram of Measurement Configuration for Conducted Transmitter Measurement

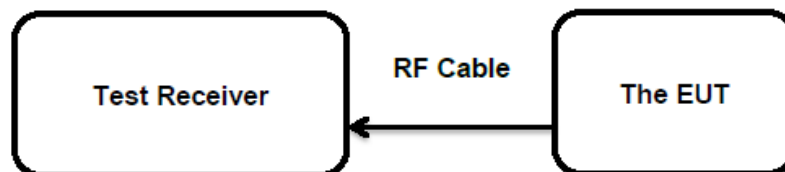
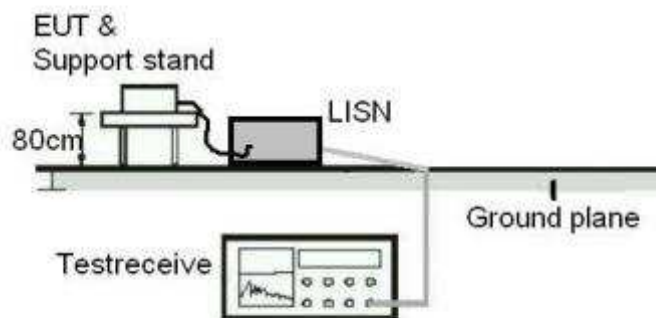


Diagram of Measurement Configuration for Mains Conduction Measurement



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5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(b)(4) and Part 15.203
RSS-Gen Clause 8.3

According to the manufacturer declared, the EUT has one FPC antenna , the directional gain of antennas is 1.93 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

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5.1.2 Maximum Conducted Output Power

RESULT:
Pass
Test Specification

Test standard	FCC Part 15.247(b)(1) RSS-247 Clause 5.4(b)
Basic standard	ANSI C63.10: 2013
Limits	FHSS<0.125W(Maximum peak conducted output power) < 4 W (e.i.r.p.)
Kind of test site	Shielded Room

Test Setup

Date of testing	2024-05-08 to 2024-06-20
Input voltage	AC120V, 60Hz
Operation mode	A.1
Test channel	Low / Middle / High
Ambient temperature	23.4 °C
Relative humidity	50.3 %
Atmospheric pressure	101 kPa

Table 5: Test Result of Maximum Conducted Output Power

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BR	2402	6.3	0.00427	< 0.125
	2441	6.5	0.00447	
	2480	6.5	0.00447	
EDR	2402	6.1	0.00407	< 0.125
	2441	6.3	0.00427	
	2480	6.2	0.00417	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 8.43 dBm less than 4W(36dBm).

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5.1.3 99% Bandwidth

RESULT:
Pass
Test Specification

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

Test Setup

Date of testing : 2024-05-08 to 2024-06-20
Input voltage : AC120V, 60Hz
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : 23.4 °C
Relative humidity : 50.3 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A

Table 6: Test Result of 99% Bandwidth

Test Mode	Channel Frequency (MHz)	Measured 99% Bandwidth	Limit
		(MHz)	
BR	2402	0.890	/
	2441	0.890	
	2480	0.890	
EDR	2402	1.160	/
	2441	1.160	
	2480	1.160	

Note: The fundamental emissions stay within the allocated band 2400-2483.5MHz.

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5.1.4 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

RESULT: Pass

Test Specification

Test standard : FCC Part 15.247(d)
RSS-247 Clause 5.5
Basic standard : ANSI C63.10: 2013
Limits : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power);
Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-05-08 to 2024-06-20
Input voltage : AC120V, 60Hz
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : 23.4 °C
Relative humidity : 50.3 %
Atmospheric pressure : 101 kPa

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

For the measurement records, refer to the appendix A

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5.1.5 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.247(d) & FCC Part 15.205
RSS-247 Clause 3.3
Basic standard : ANSI C63.10: 2013
Limits : Refer to 15.209(a) of FCC part 15.247(d)
RSS-Gen Table 6 & Table 7
Kind of test site : 3m Semi-anechoic Chamber

Test Setup

Date of testing : 2024-05-08 to 2024-06-20
Input voltage : AC120V, 60Hz
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : Refer to test result
Relative humidity : Refer to test result
Atmospheric pressure : 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For the measurement records, refer to the appendix A

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5.1.6 20dB Bandwidth

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(a)(1)
RSS-247 Clause 5.1(a)

Basic standard : ANSI C63.10: 2013

Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-05-08 to 2024-06-20

Input voltage : AC120V, 60Hz

Operation mode : A.1

Test channel : Low / Middle / High

Ambient temperature : 23.4 °C

Relative humidity : 50.3 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A

Table 7: Test Result of -20dB Bandwidth

Test Mode	Channel Frequency (MHz)	20dB Bandwidth (kHz)	2/3 of 20dB Bandwidth (kHz)	Limit (MHz)
BR	2402	935	623.333	/
	2441	940	626.667	
	2480	940	626.667	
EDR	2402	1245	830.000	/
	2441	1245	830.000	
	2480	1245	830.000	

Prüfbericht-Nr.: CN241ZKW 001
Test report no.:

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5.1.7 Carrier Frequency Separation

RESULT:
Pass
Test Specification

Test standard : FCC Part 15.247(a)(1)
RSS-247 Clause 5.1(b)

Basic standard : ANSI C63.10: 2013

Limits : $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth, whichever is greater

Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-05-08 to 2024-06-20

Input voltage : AC120V, 60Hz

Operation mode : B

Test channel : Low / Middle / High

Ambient temperature : 23.4 °C

Relative humidity : 50.3 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A

Table 8: Test Result of Carrier Frequency Separation

Test Mode	Channel	Result[MHz]	Limit[MHz]	Verdict
BR-DH5	Hop	1.002	≥ 0.627	PASS
EDR-3DH5	Hop	1.003	≥ 0.830	PASS

Note:

The limit is maximum $2/3$ of the 20 dB bandwidth: 830.000KHz.

Prüfbericht-Nr.: CN241ZKW 001
Test report no.:

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5.1.8 Frequency stability

RESULT:

Pass

Test Specification

Test standard : RSS-247 Clause 8.11
Basic standard : ANSI C63.10: 2013
Limits : within at least the central 80% of its permitted operating frequency band (2400-2483.5MHz)
Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-05-08 to 2024-06-20
Input voltage : AC120V, 60Hz
Operation mode : B
Ambient temperature : 23.4 °C
Relative humidity : 50.3 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A

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5.1.9 Number of Hopping Frequency

RESULT:

Pass

Test Specification

Test standard : FCC part 15.247(a)(1)(iii)
RSS-247 Clause 5.1(d)

Basic standard : ANSI C63.10: 2013

Limits : ≥ 15 non-overlapping channels

Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-05-08 to 2024-06-20

Input voltage : AC120V, 60Hz

Operation mode : B

Ambient temperature : 23.4 °C

Relative humidity : 50.3 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

Table 9: Test Result of Number of Hopping Frequency

Frequency Range	Measured Quantity of Hopping Channel	Limit	Result
2402 to 2480 MHz	79	≥ 15	Pass

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Test report no.:

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5.1.10 Time of Occupancy

RESULT:

Pass

Test Specification

Test standard : FCC part 15.247(a)(1)(iii)
RSS-247 Clause 5.1(d)
Basic standard : ANSI C63.10: 2013
Limits : < 0.4s
Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-05-08 to 2024-06-20
Input voltage : AC120V, 60Hz
Operation mode : B
Test channel : Low / Middle / High
Ambient temperature : 23.4 °C
Relative humidity : 50.3 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

Prüfbericht-Nr.: CN241ZKW 001
Test report no.:

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5.1.11 Conducted Emission on AC Mains

RESULT:

Pass

Test Specification

Test standard : FCC Part 15.207(a)
RSS-Gen Clause 8.8
Basic standard : ANSI C63.10: 2013
Frequency range : 0.15 – 30MHz
Limits : FCC Part 15.207(a)
RSS-Gen Table 4
Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-05-08 to 2024-06-20
Input voltage : AC120V, 60Hz
Operation mode : B
Earthing : Not connected
Ambient temperature : Refer to test result
Relative humidity : Refer to test result
Atmospheric pressure : Refer to test result

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

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

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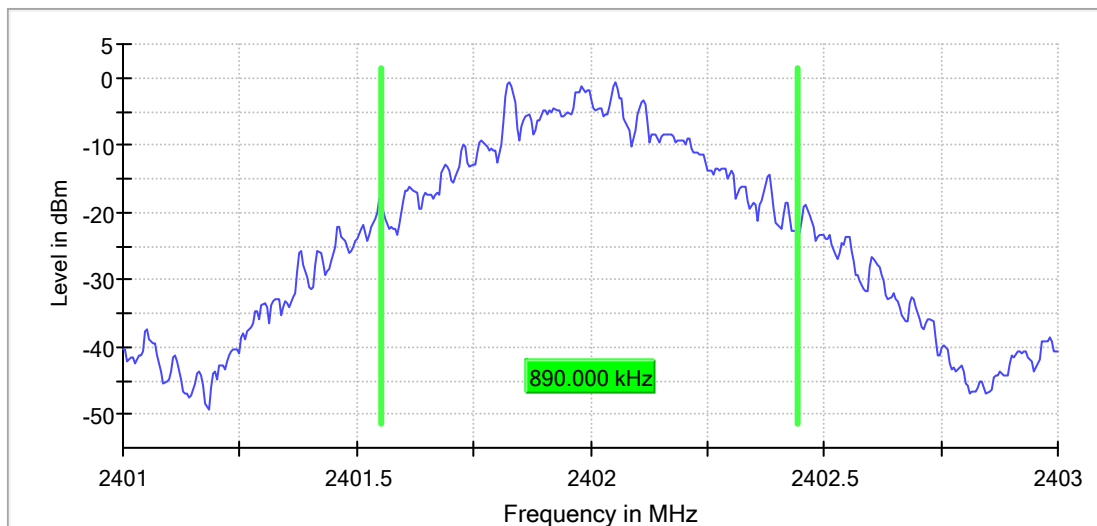
Appendix A: Test Results of Classical Bluetooth

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Appendix A.1: Test Results of 99% Bandwidth

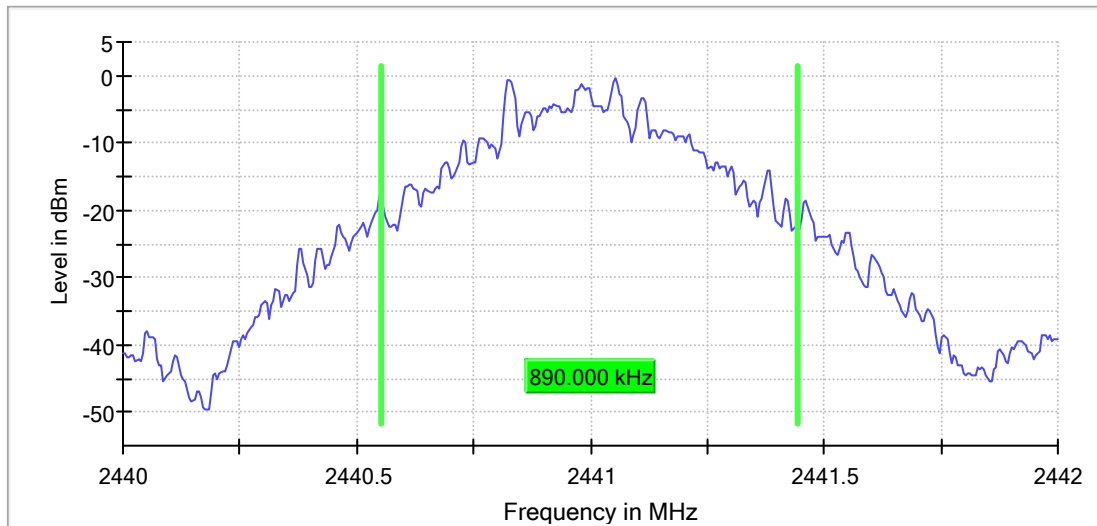
DH5_Ant1_2402

99 % Bandwidth



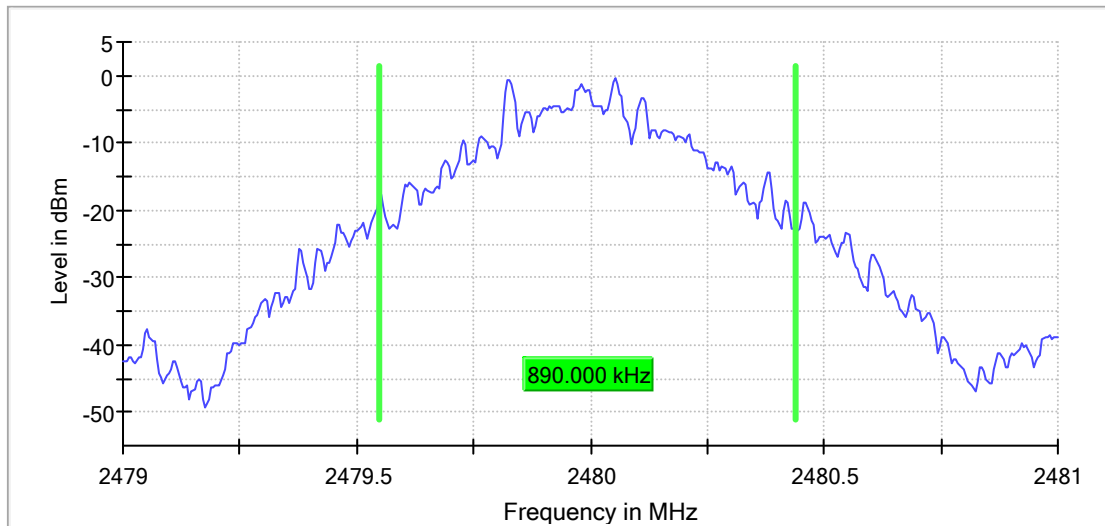
DH5_Ant1_2441

99 % Bandwidth



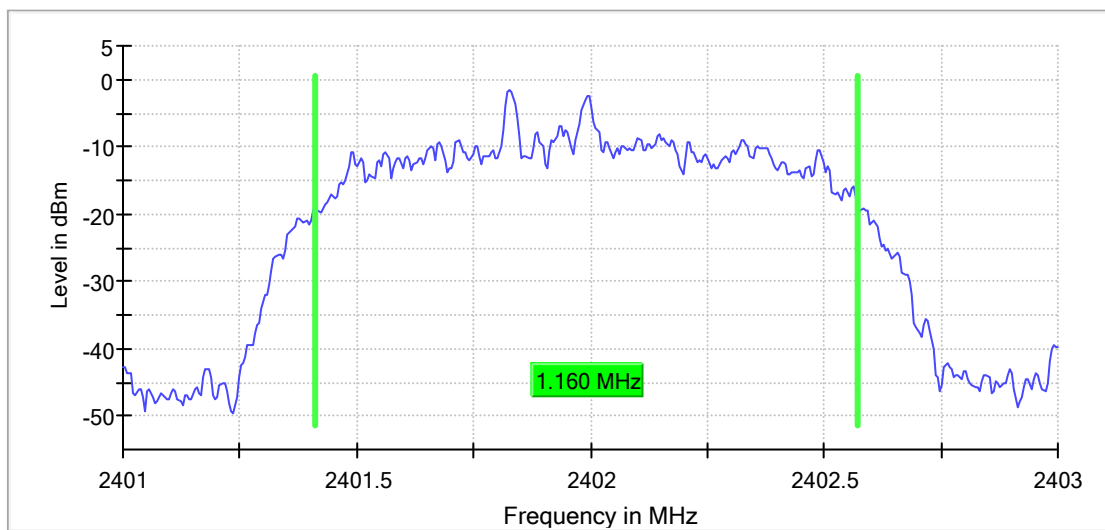
DH5_Ant1_2480

99 % Bandwidth



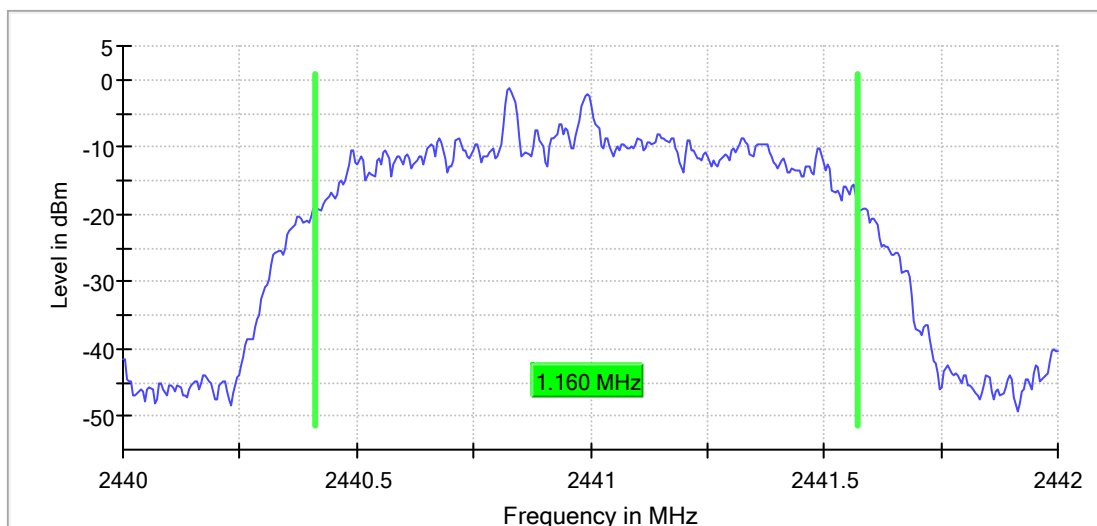
3DH5_Ant1_2402

99 % Bandwidth



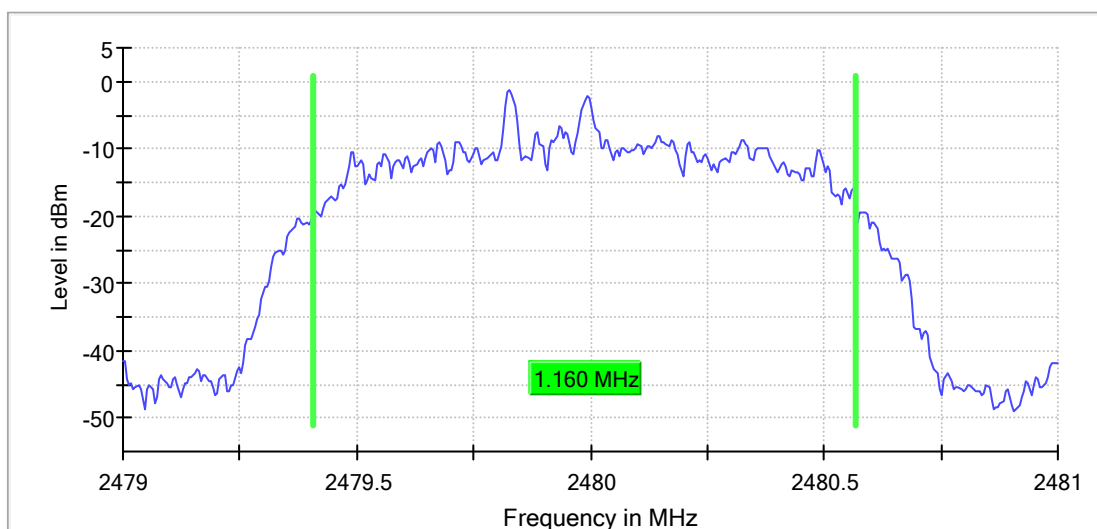
3DH5 Ant1 2441

99 % Bandwidth



3DH5 Ant1 2480

99 % Bandwidth



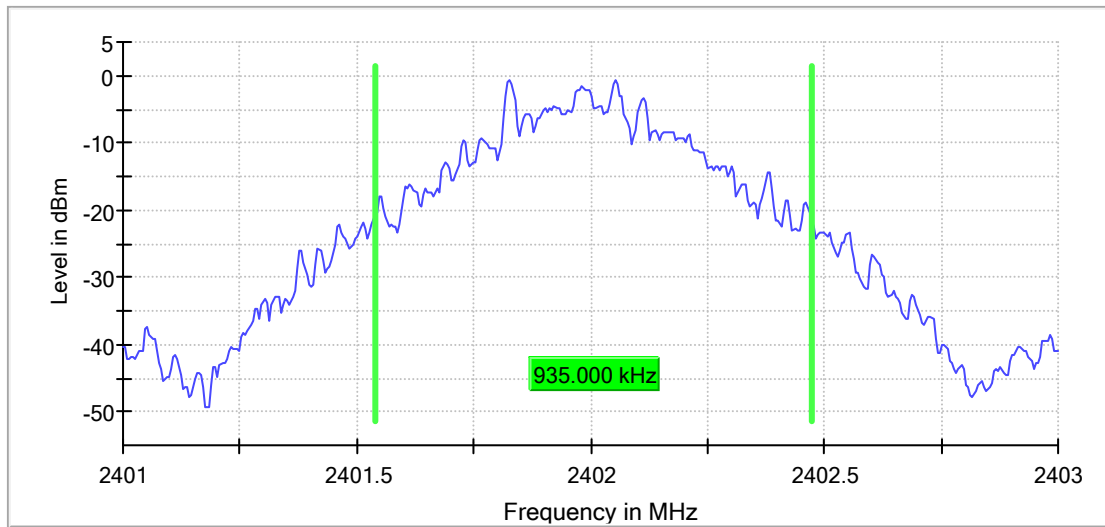
Measurement

Setting	Instrument Value
Span	2.000 MHz
RBW	30.000 kHz
VBW	100.000 kHz
SweepPoints	400
SweepTime	189.648 µs
Reference Level	0.000 dBm
Attenuation	20.000 dB
Detector	MaxPeak
SweepCount	500
Filter	3 dB
Trace Mode	Max Hold

Appendix A.2: Test Results of 20dB Bandwidth

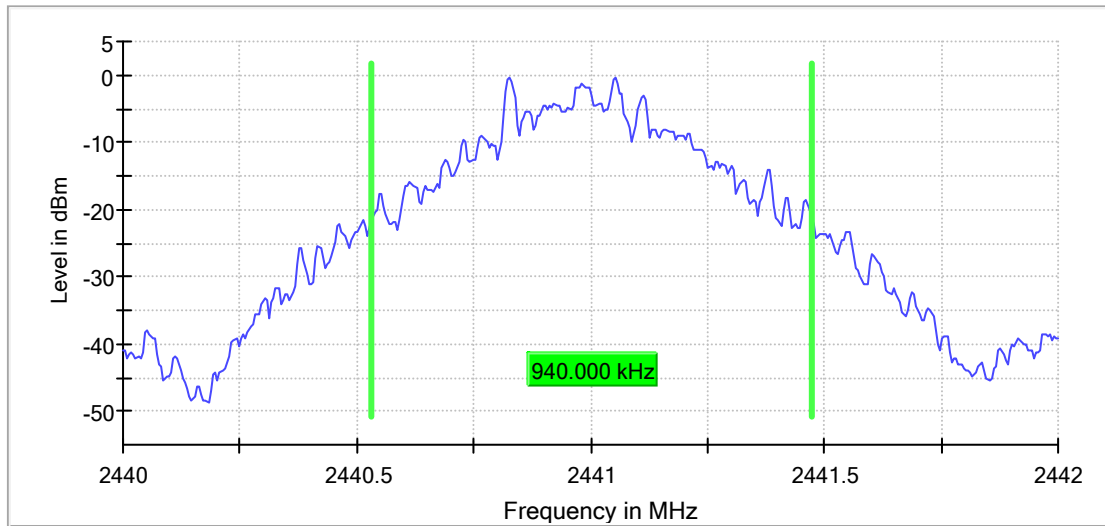
DH5_Ant1_2402

20 dB Bandwidth



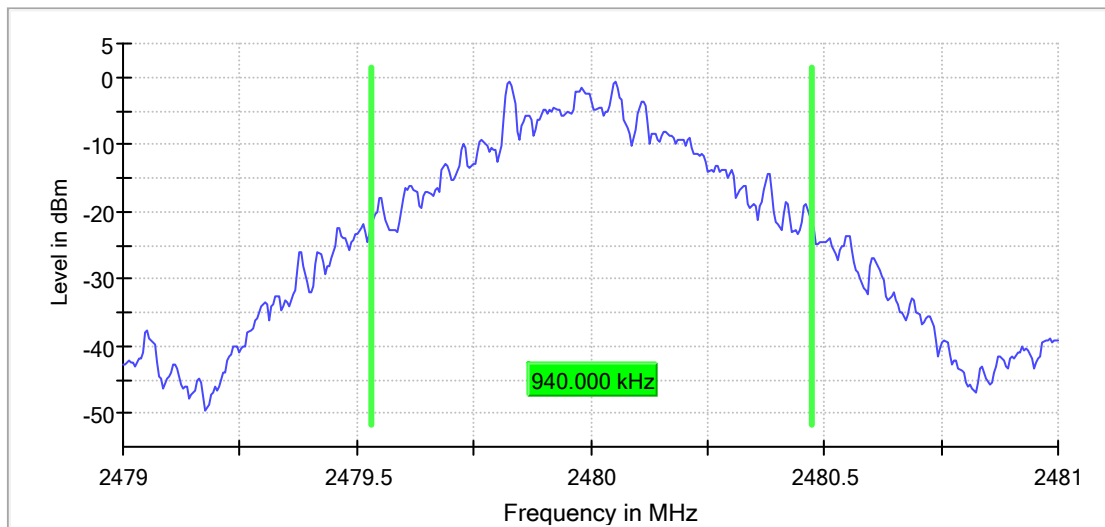
DH5_Ant1_2441

20 dB Bandwidth



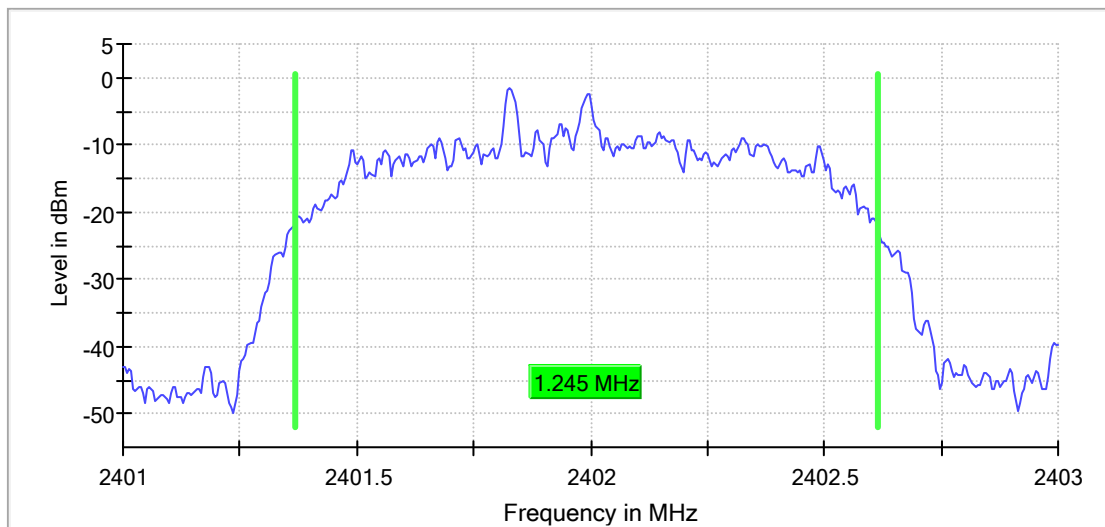
DH5_Ant1_2480

20 dB Bandwidth



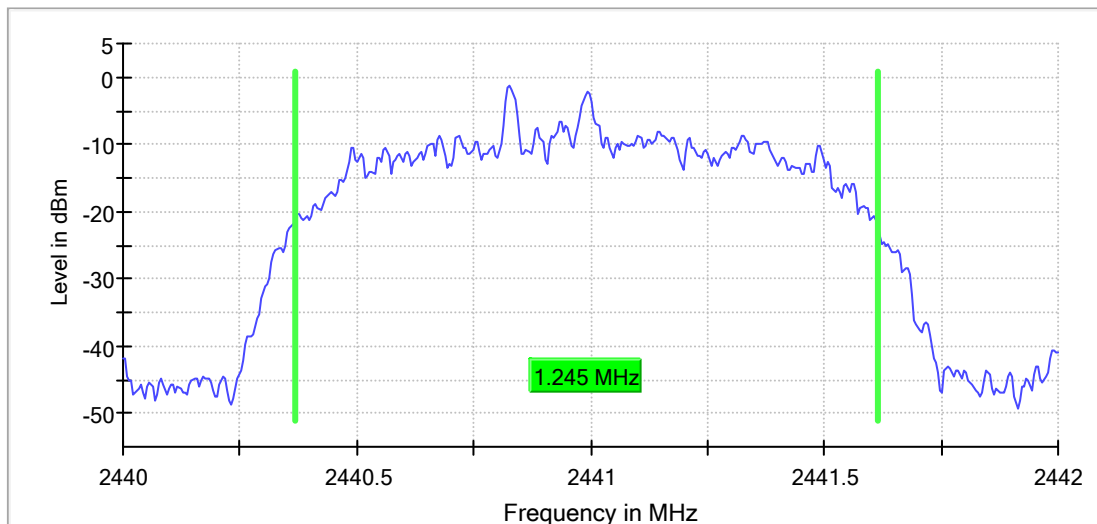
3DH5_Ant1_2402

20 dB Bandwidth



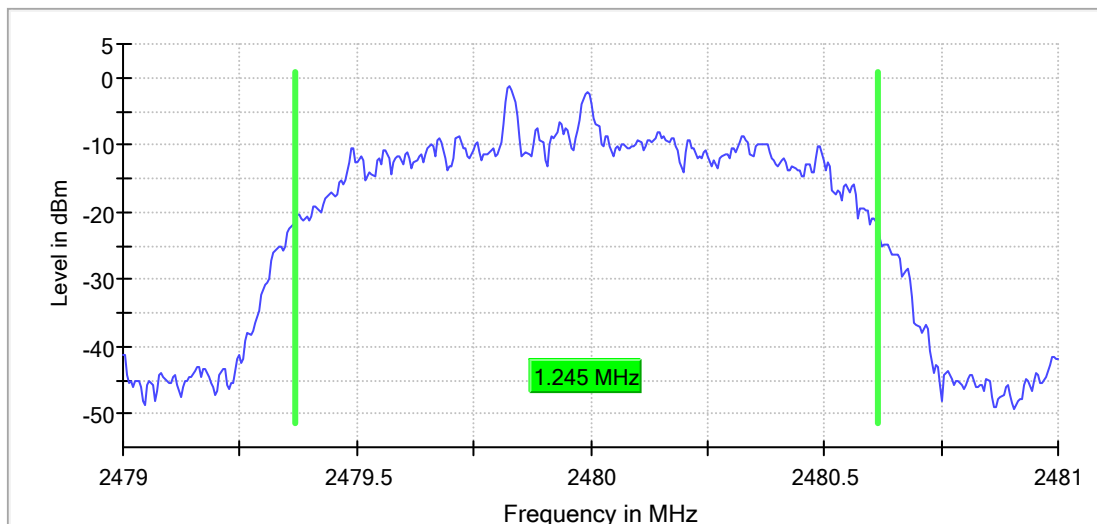
3DH5_Ant1_2441

20 dB Bandwidth



3DH5_Ant1_2480

20 dB Bandwidth



Measurement

Setting	Instrument Value
Span	2.000 MHz
RBW	30.000 kHz
VBW	100.000 kHz
SweepPoints	400
SweepTime	189.648 µs
Reference Level	0.000 dBm
Attenuation	20.000 dB
Detector	MaxPeak
SweepCount	200
Filter	3 dB
Trace Mode	Max Hold
SweepType	FFT

Appendix A.3: Test Results of Frequency stability

Test Channel (MHz)	2402
-----------------------	------

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
AC120V	2401.995	-5	-2.08	10
AC108V	2401.995	-5	-2.08	
AC132V	2401.995	-5	-2.08	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2401.994	-6	-2.50	10
-20	2401.994	-6	-2.50	
-10	2401.995	-5	-2.08	
0	2401.995	-5	-2.08	
10	2401.995	-5	-2.08	
20	2401.995	-5	-2.08	
30	2401.995	-5	-2.08	
40	2401.996	-4	-1.67	
50	2401.996	-4	-1.67	
55	2401.996	-4	-1.67	

Test Channel (MHz)	2441
-----------------------	------

Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
AC120V	2440.994	-6	-2.46	10
AC108V	2440.994	-6	-2.46	
AC132V	2440.994	-6	-2.46	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2440.993	-7	-2.87	10
-20	2440.993	-7	-2.87	
-10	2440.994	-6	-2.46	
0	2440.994	-6	-2.46	
10	2440.994	-6	-2.46	
20	2440.994	-6	-2.46	
30	2440.994	-6	-2.46	
40	2440.995	-5	-2.05	
50	2440.995	-5	-2.05	
55	2440.995	-5	-2.05	

Test Channel (MHz)	2480
-----------------------	------

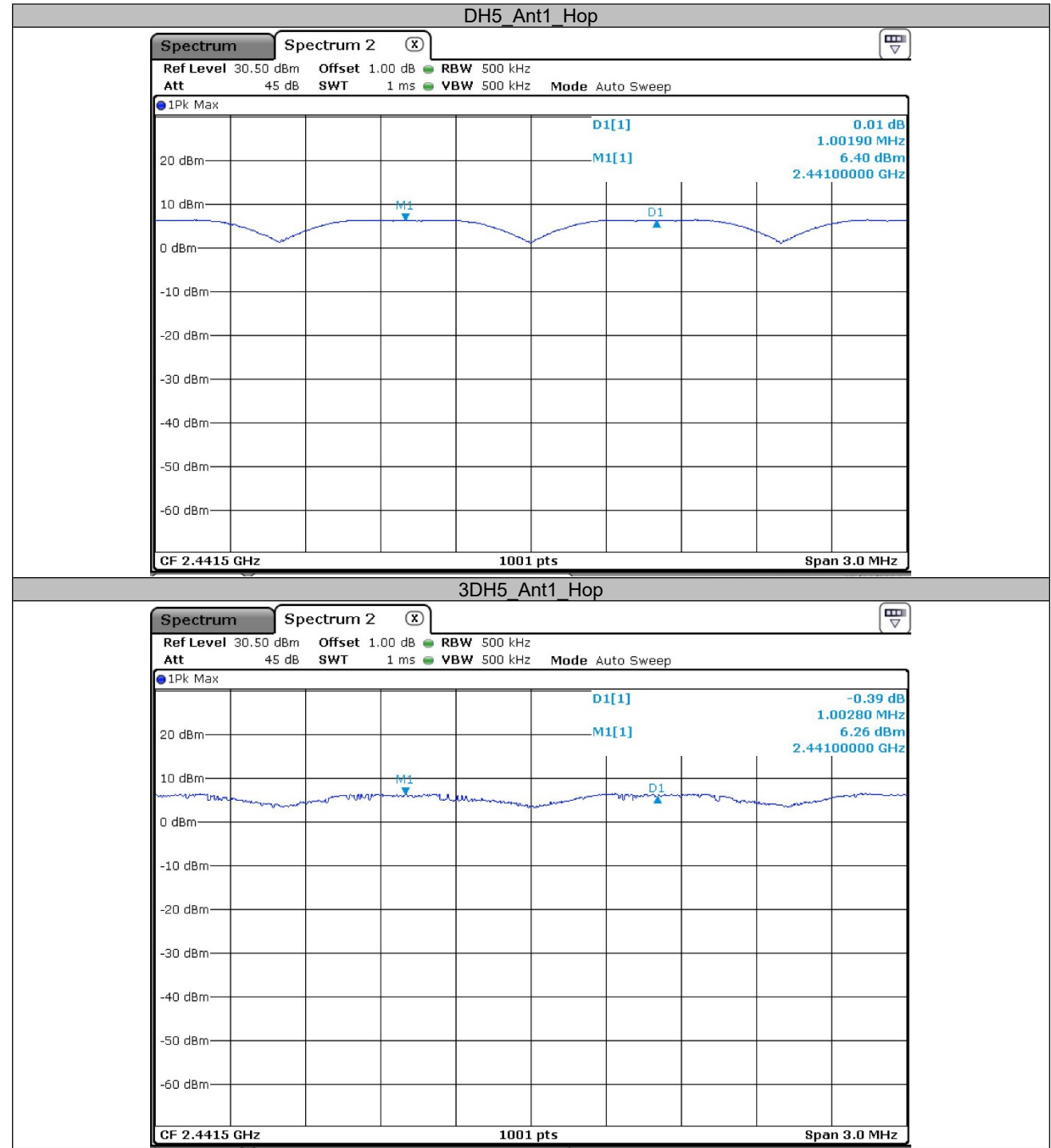
Test result of frequency tolerance of voltage variation

Voltage	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
AC120V	2479.994	-6	-2.42	10
AC108V	2479.994	-6	-2.42	
AC132V	2479.994	-6	-2.42	

Test result of frequency tolerance of temperature variation

Temperature (°C)	Test result (MHz)	Deviation Frequency (KHz)	Test result (ppm)	Limit (ppm)
-30	2479.993	-7	-2.82	10
-20	2479.993	-7	-2.82	
-10	2479.994	-6	-2.42	
0	2479.994	-6	-2.42	
10	2479.994	-6	-2.42	
20	2479.994	-6	-2.42	
30	2479.994	-6	-2.42	
40	2479.995	-5	-2.02	
50	2479.995	-5	-2.02	
55	2479.995	-5	-2.02	

Appendix A.4: Test Results of Carrier Frequency Separation

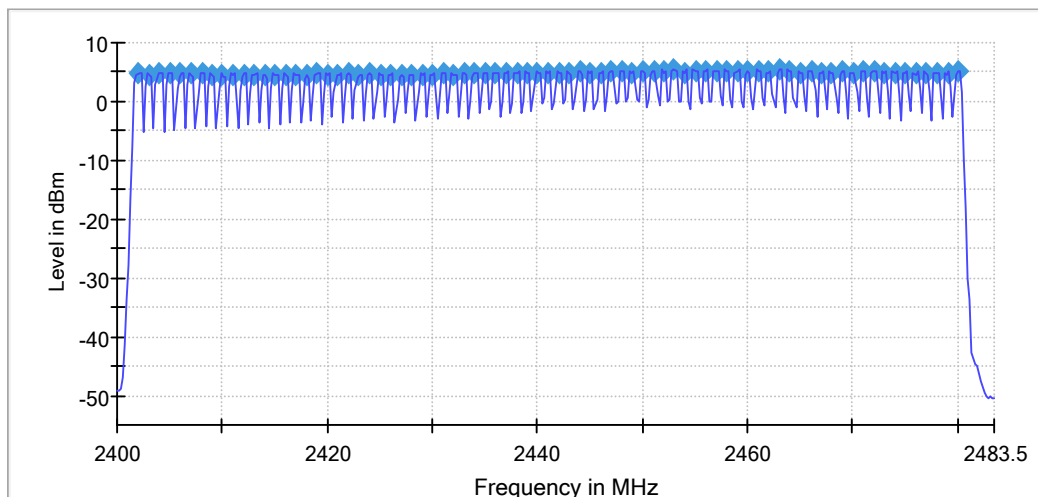


Appendix A.5: Test Results of Number of Hopping Frequency

TestMode	Antenna	Channel	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

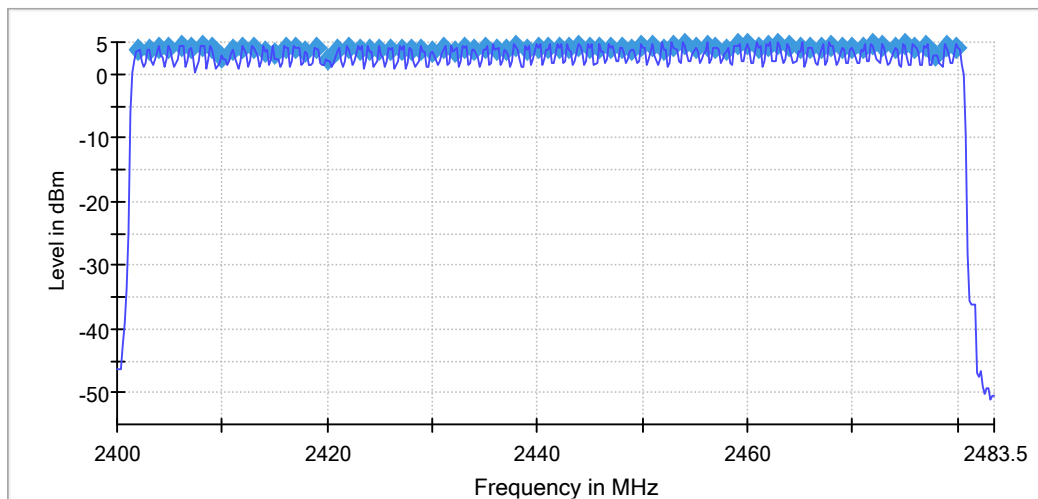
DH5_Ant1_Hop

Sequence



3DH5_Ant1_Hop

Sequence



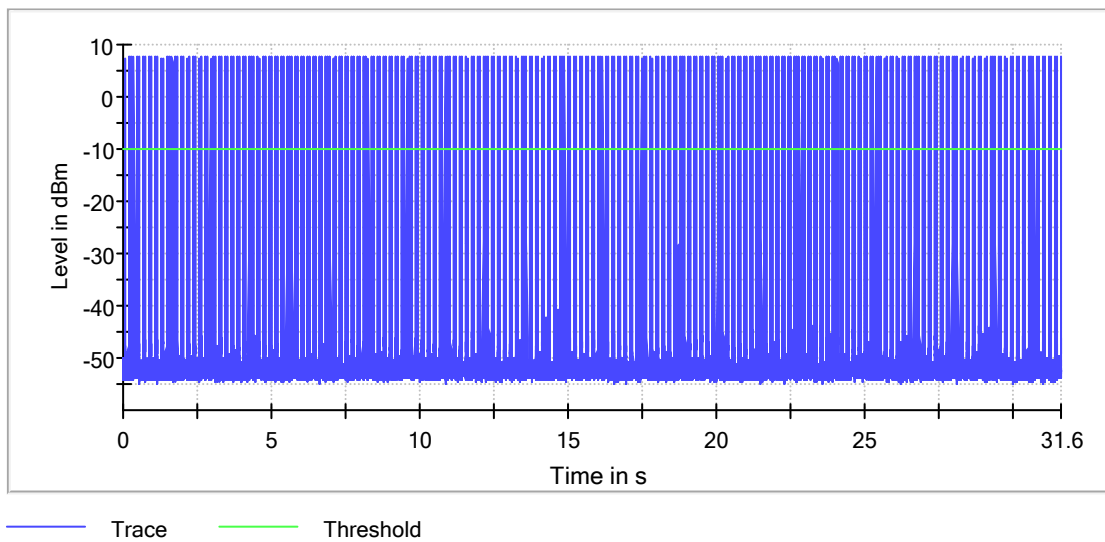
Setting	Instrument Value
Start Frequency	2.40000 GHz
Stop Frequency	2.48350 GHz
Span	83.500 MHz
RBW	200.000 kHz
VBW	200.000 kHz
SweepPoints	418
SweepTime	1.060 ms
Reference Level	0.000 dBm
Attenuation	20.000 dB
Detector	MaxPeak

Appendix A.6: Test Results of Time of Occupancy

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.385	319	0.123	≤0.4	PASS
DH3	Ant1	Hop	1.631	159	0.259	≤0.4	PASS
DH5	Ant1	Hop	2.878	106	0.305	≤0.4	PASS
3DH1	Ant1	Hop	0.368	319	0.117	≤0.4	PASS
3DH3	Ant1	Hop	1.543	159	0.245	≤0.4	PASS
3DH5	Ant1	Hop	2.717	106	0.288	≤0.4	PASS

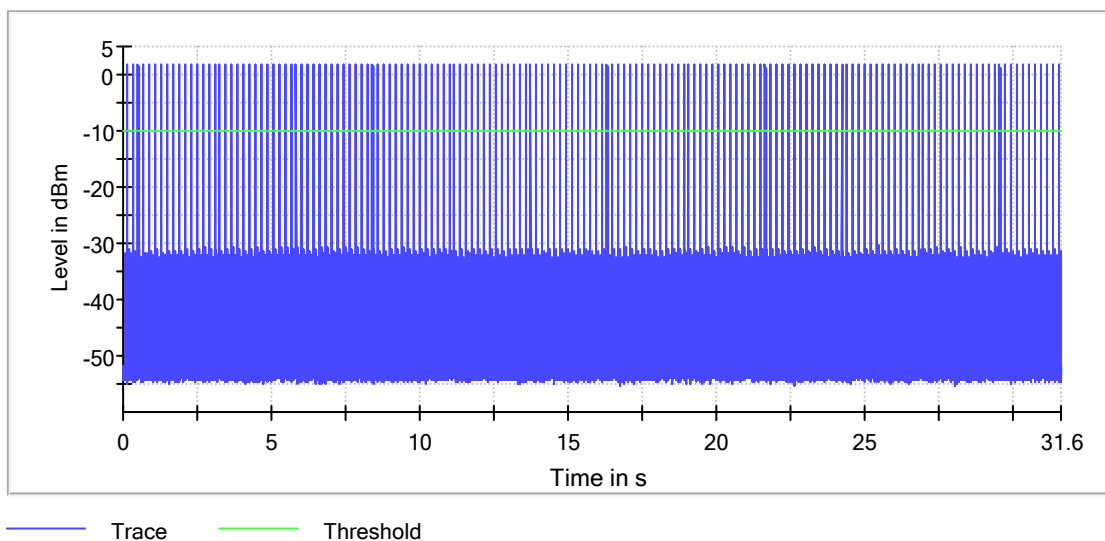
DH1_Ant1_Hop

Time of Channel Occupancy



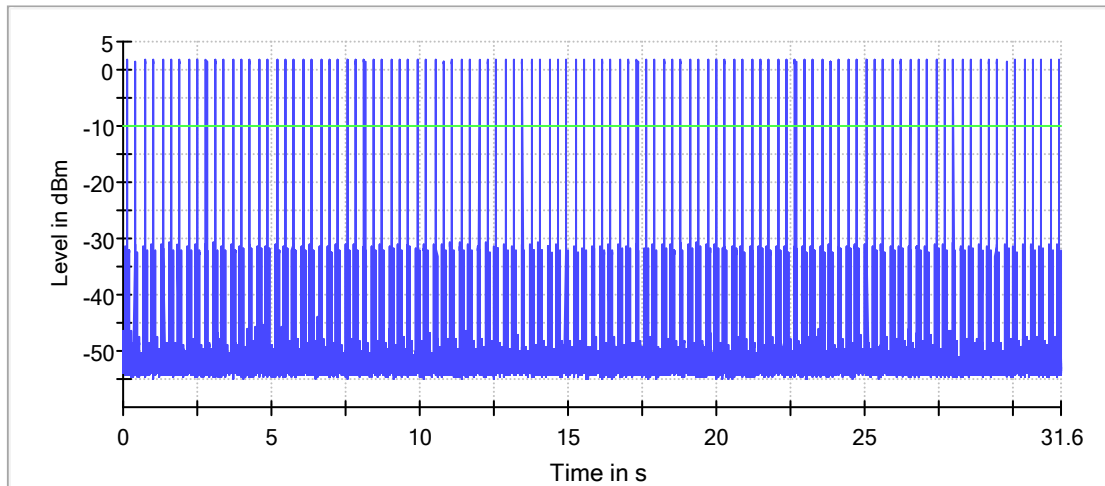
DH3_Ant1_Hop

Time of Channel Occupancy(2)



DH5_Ant1_Hop

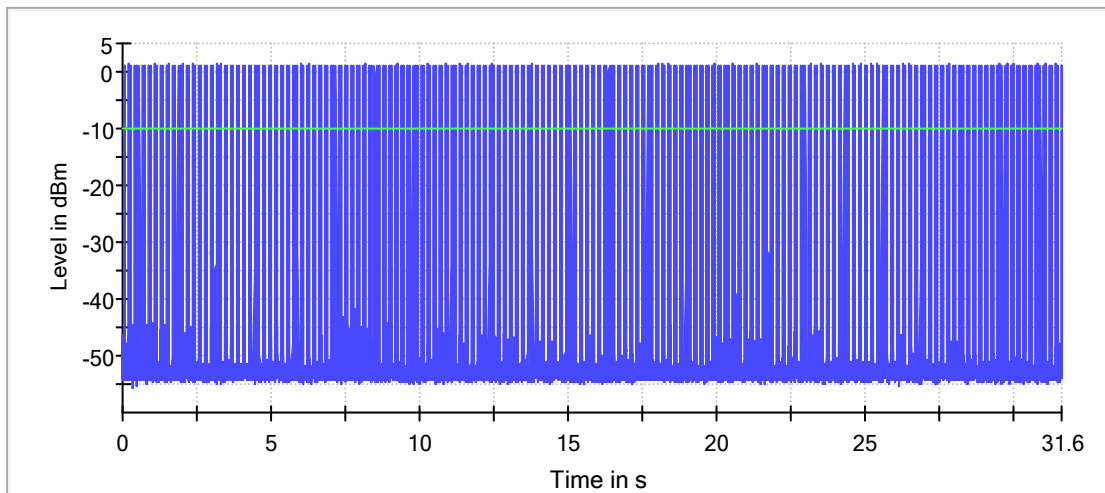
Time of Channel Occupancy(3)



Trace Threshold

3DH1_Ant1_Hop

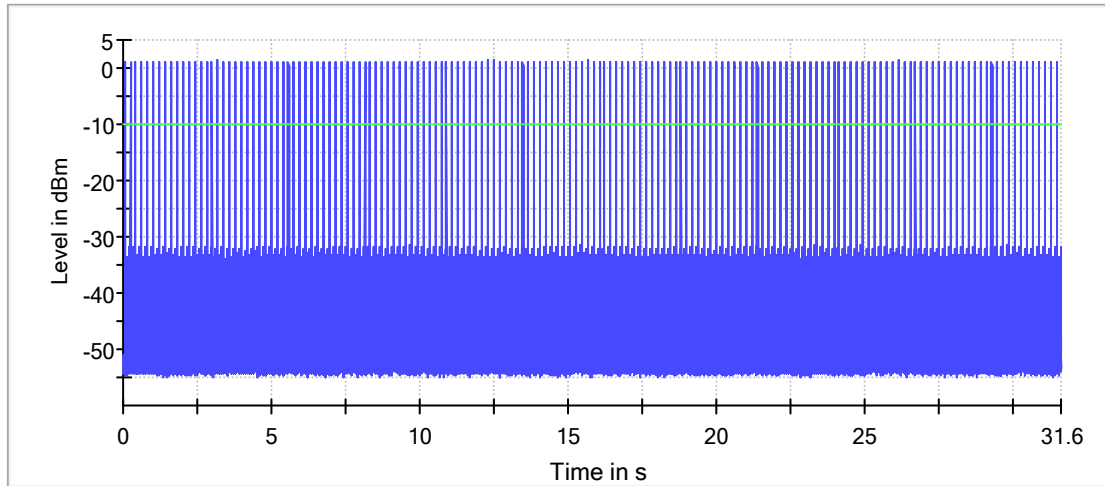
Time of Channel Occupancy



Trace Threshold

3DH3_Ant1_Hop

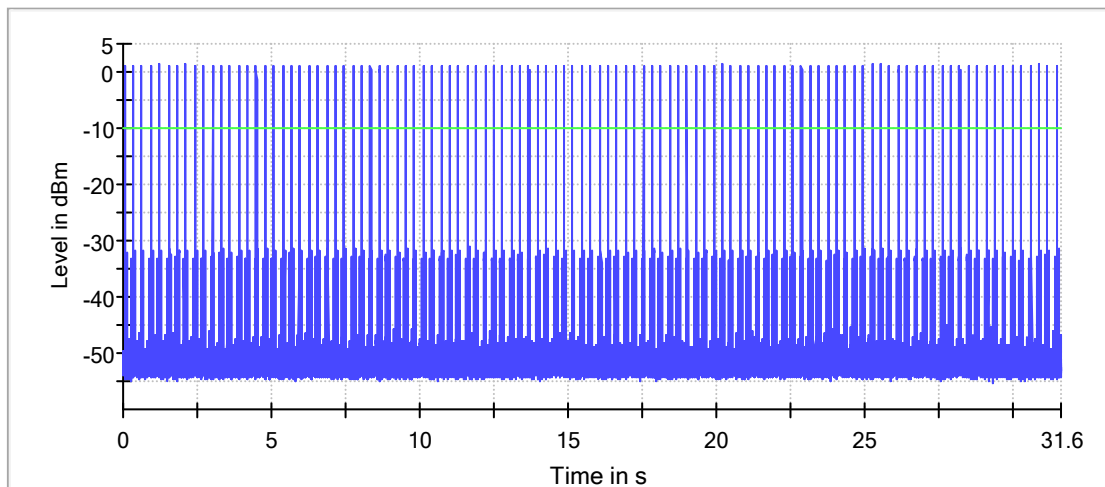
Time of Channel Occupancy(2)



Trace Threshold

3DH5_Ant1_Hop

Time of Channel Occupancy(3)



Trace Threshold

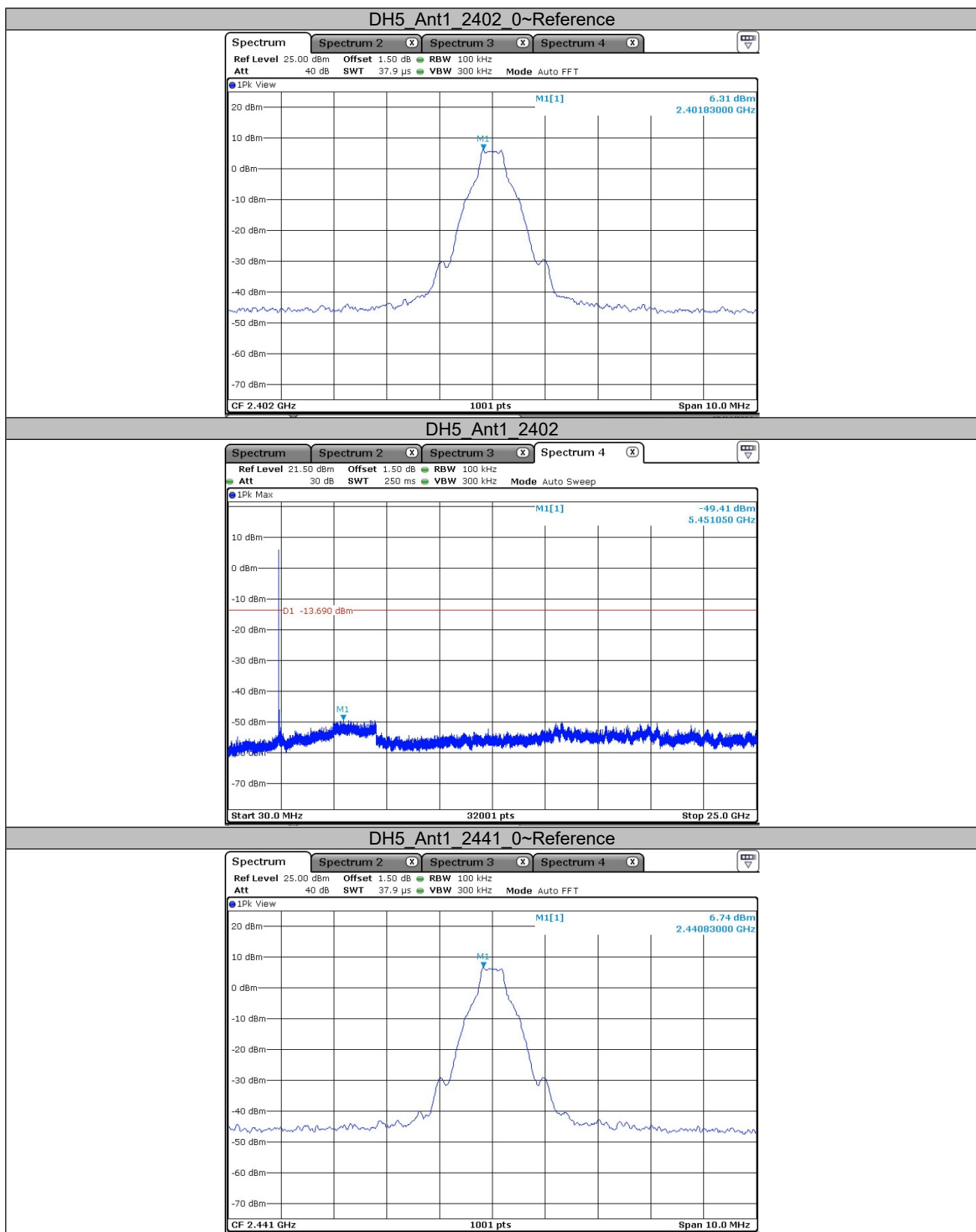
Measurement

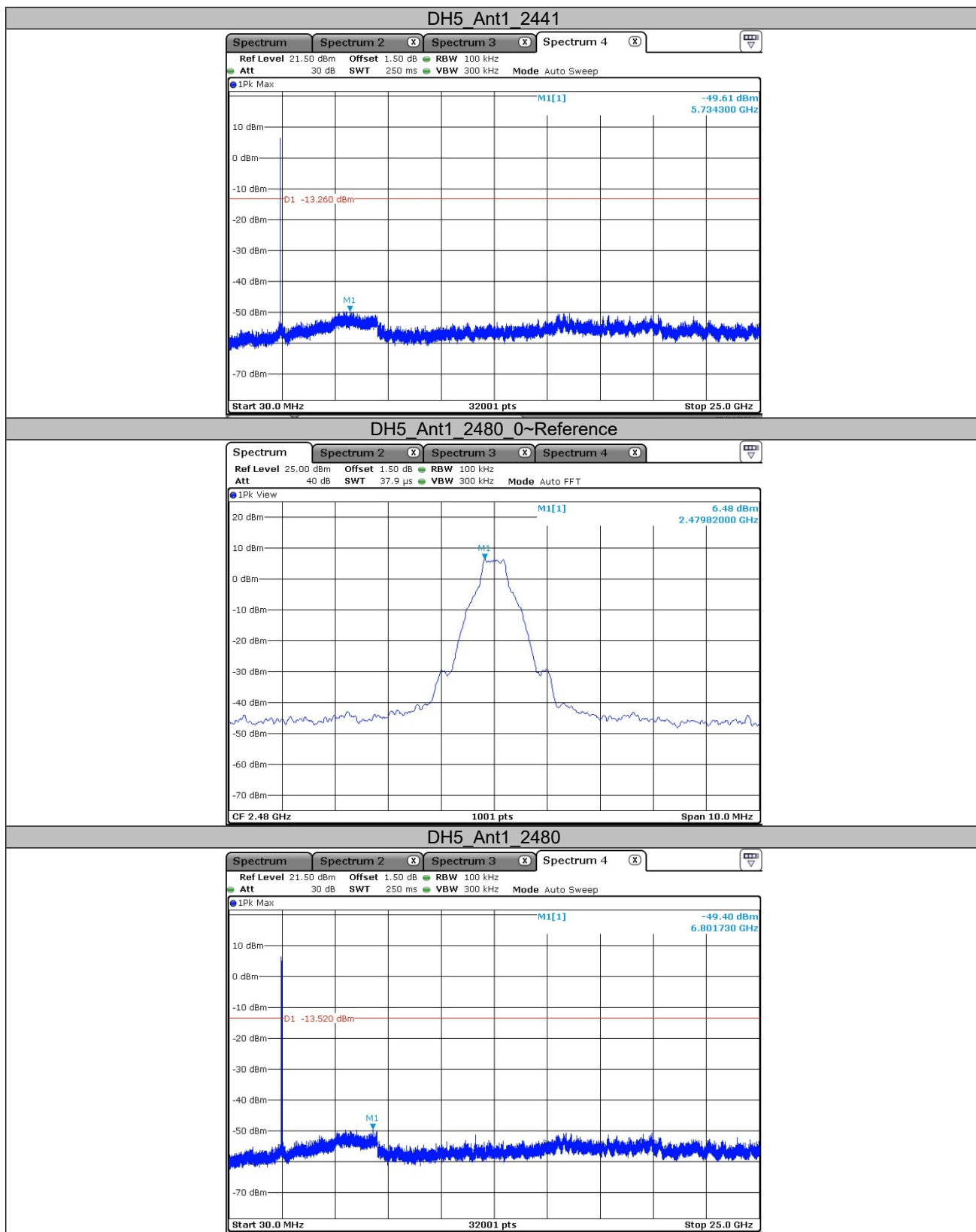
Setting	Instrument Value
Center Frequency	2.44100 GHz
Span	ZeroSpan
RBW	500.000 kHz
VBW	1.000 MHz
SweepPoints	30001
SweepTime	31.600 s
Reference Level	-10.000 dBm
Attenuation	0.000 dB
Detector	MaxPeak

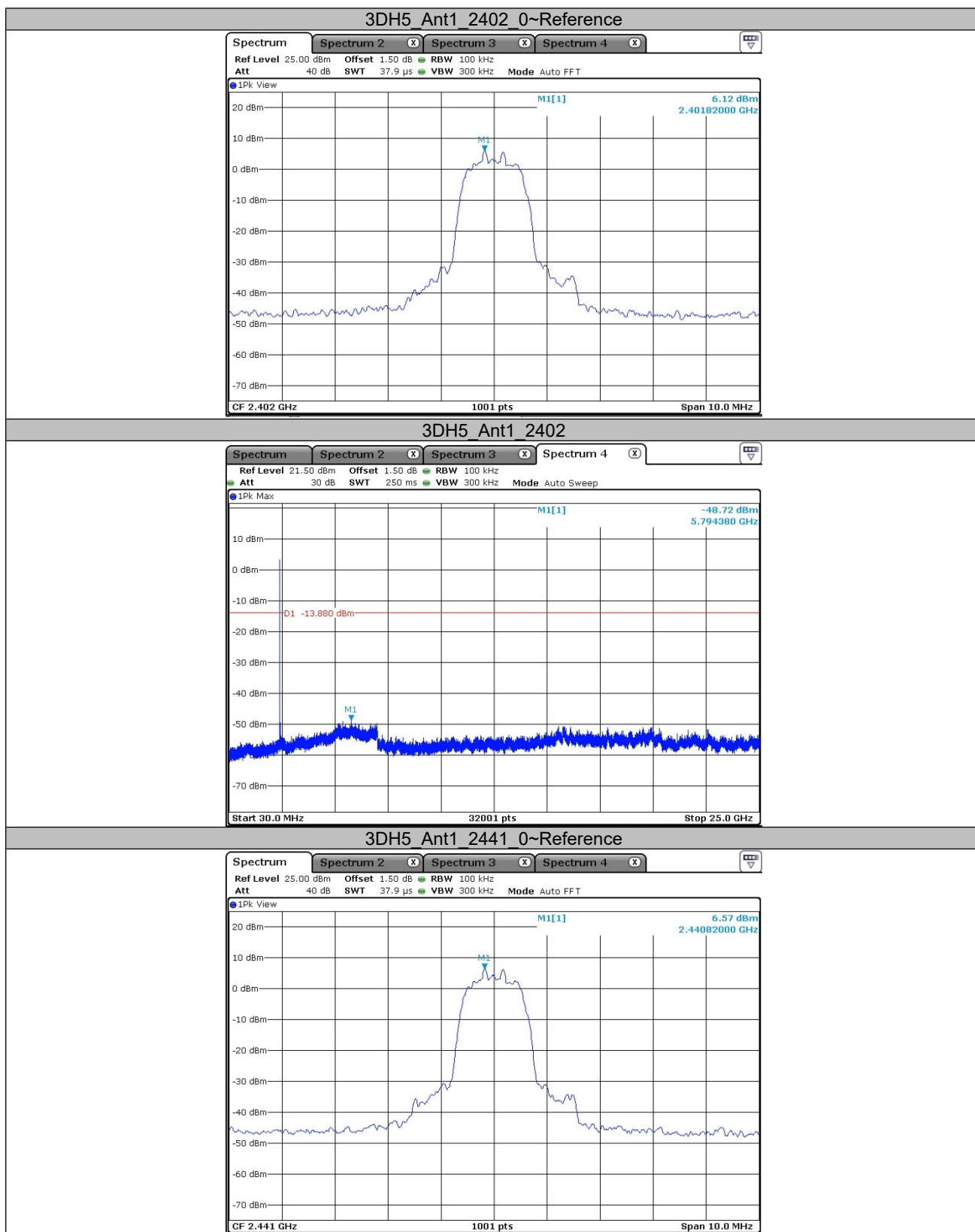
Appendix A.7: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

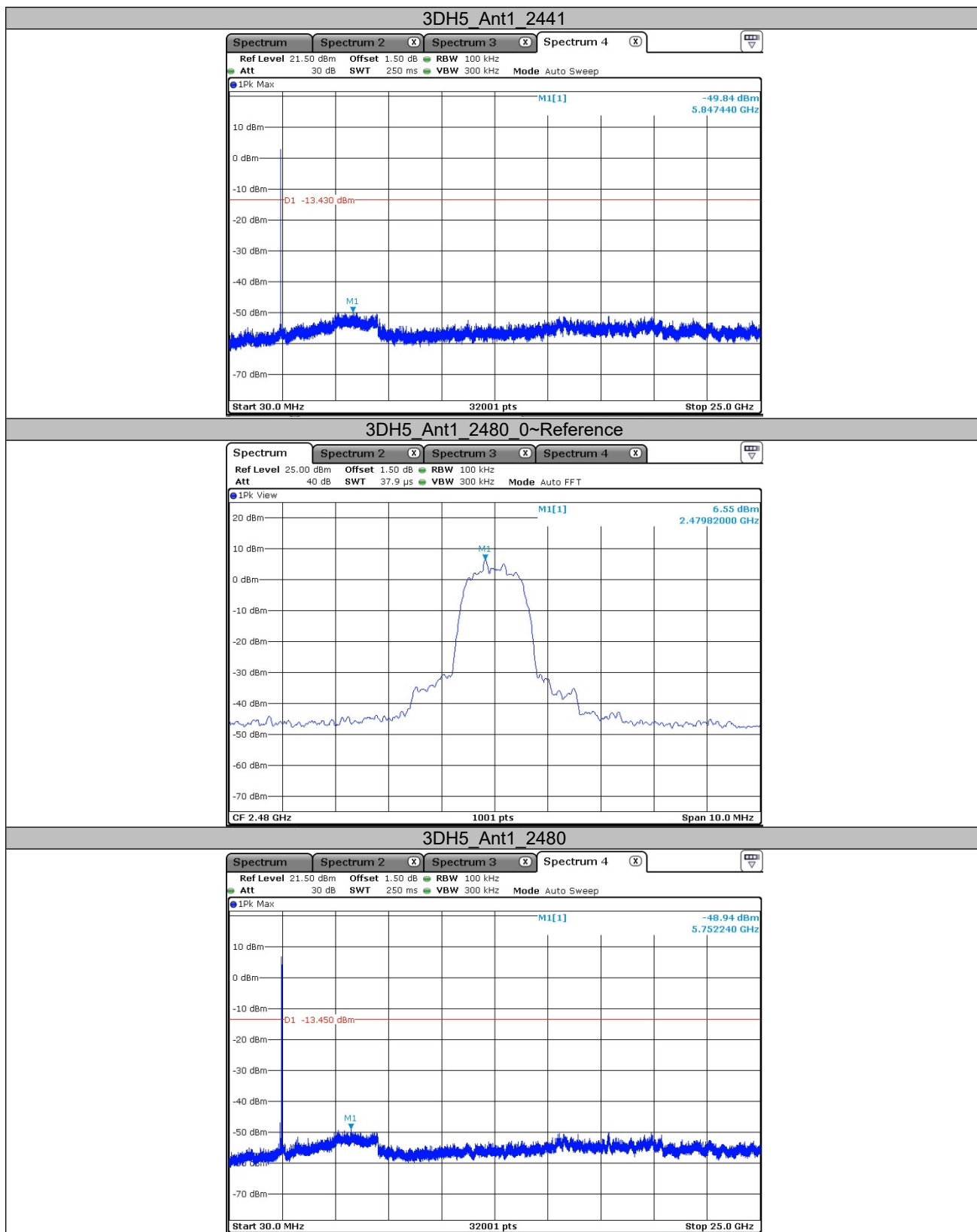
Conducted measurements

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	6.31	6.31	---	PASS
			30~25000	6.31	-49.41	≤-13.69	PASS
		2441	Reference	6.74	6.74	---	PASS
			30~25000	6.74	-49.61	≤-13.26	PASS
		2480	Reference	6.48	6.48	---	PASS
			30~25000	6.48	-49.40	≤-13.52	PASS
3DH5	Ant1	2402	Reference	6.12	6.12	---	PASS
			30~25000	6.12	-48.72	≤-13.88	PASS
		2441	Reference	6.57	6.57	---	PASS
			30~25000	6.57	-49.84	≤-13.43	PASS
		2480	Reference	6.55	6.55	---	PASS
			30~25000	6.55	-48.94	≤-13.45	PASS





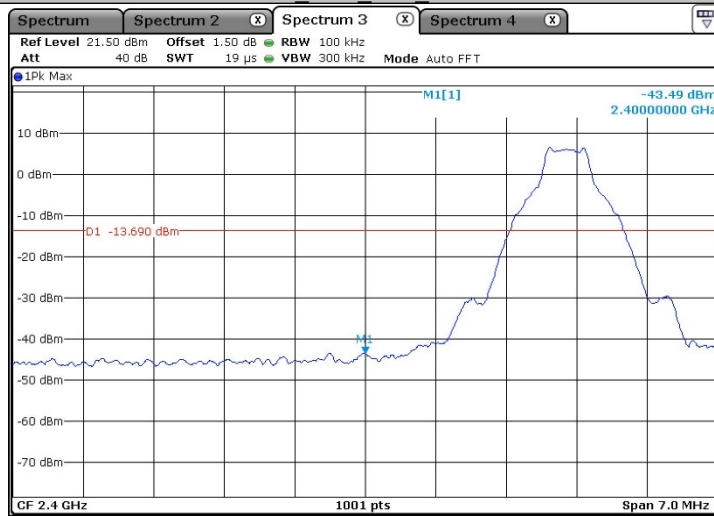




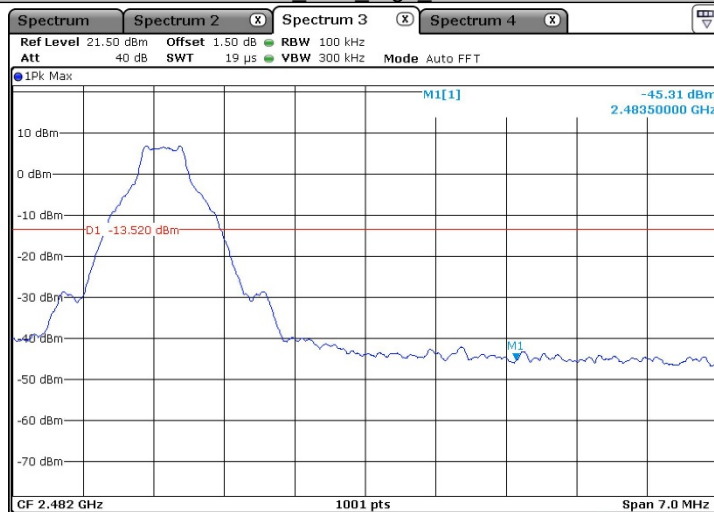
Band edge measurements

TestMode	Antenna	ChName	Channel	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-43.49	≤-13.69	PASS
		High	2480	-45.31	≤-13.52	PASS
3DH5	Ant1	Low	2402	-43.73	≤-13.88	PASS
		High	2480	-46.49	≤-13.45	PASS
DH5	Ant1	Hopping	2402	-47.98	≤-12.82	PASS
		Hopping	2480	-45.99	≤-12.82	PASS
3DH5	Ant1	Hopping	2402	-48.83	≤-12.90	PASS
		Hopping	2480	-46.19	≤-12.90	PASS

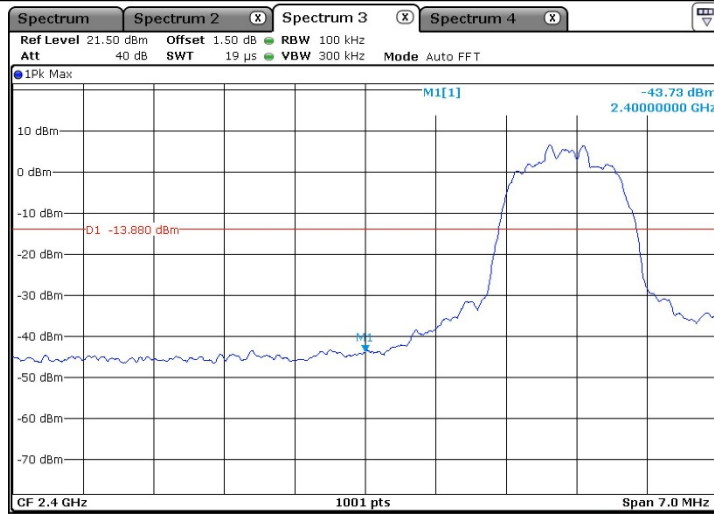
DH5 Ant1 Low 2402



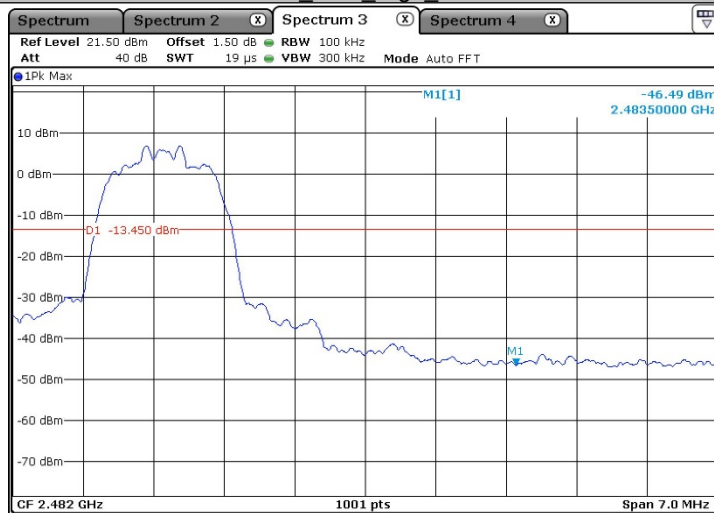
DH5 Ant1 High 2480



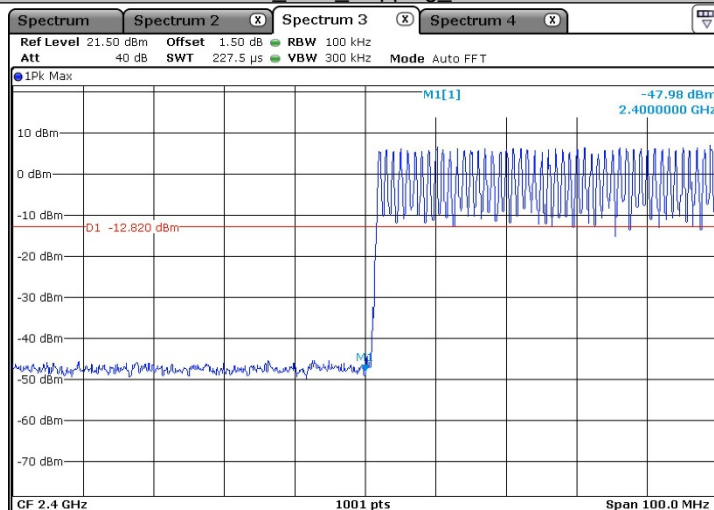
3DH5_Ant1_Low_2402

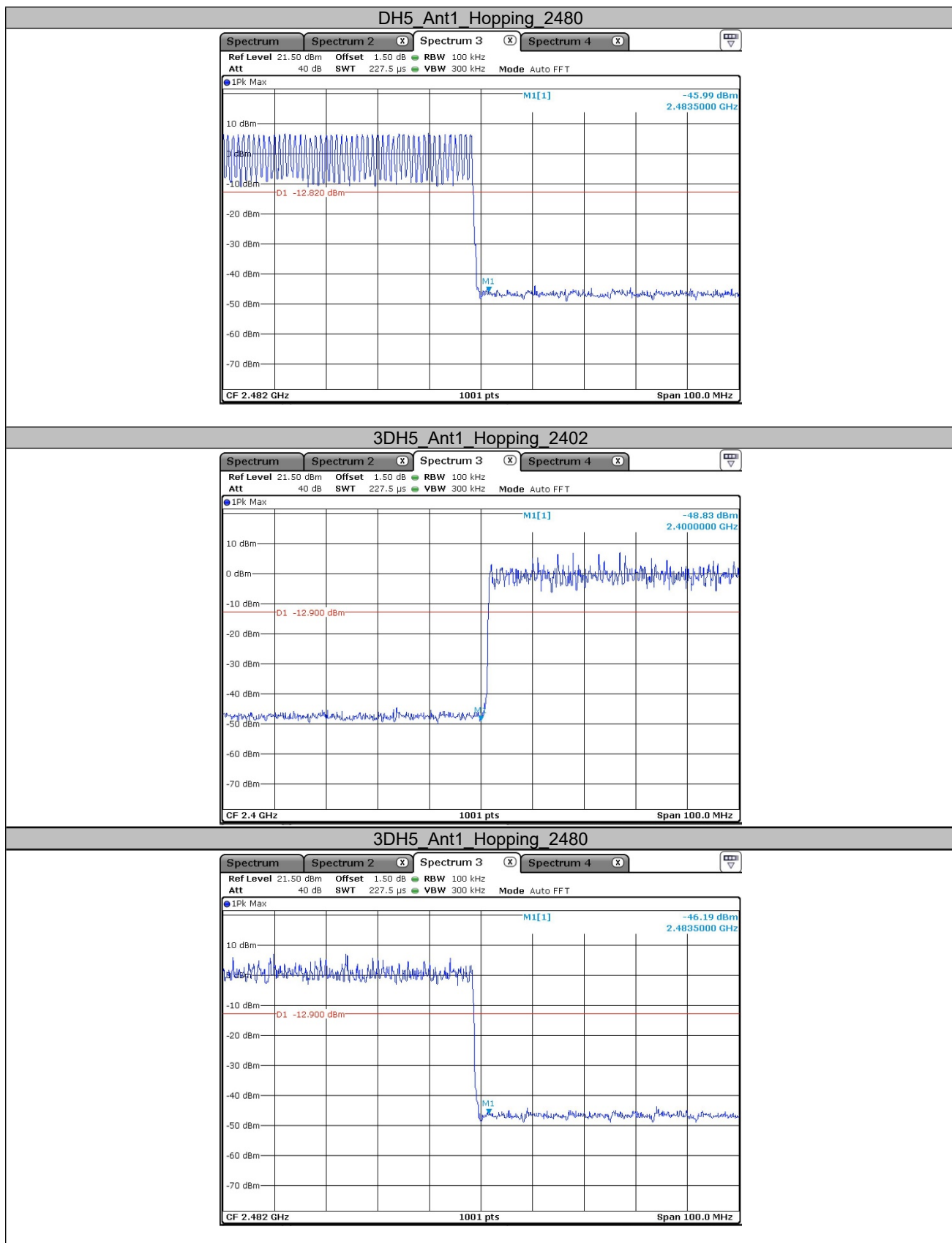


3DH5_Ant1_High_2480



DH5_Ant1_Hopping_2402





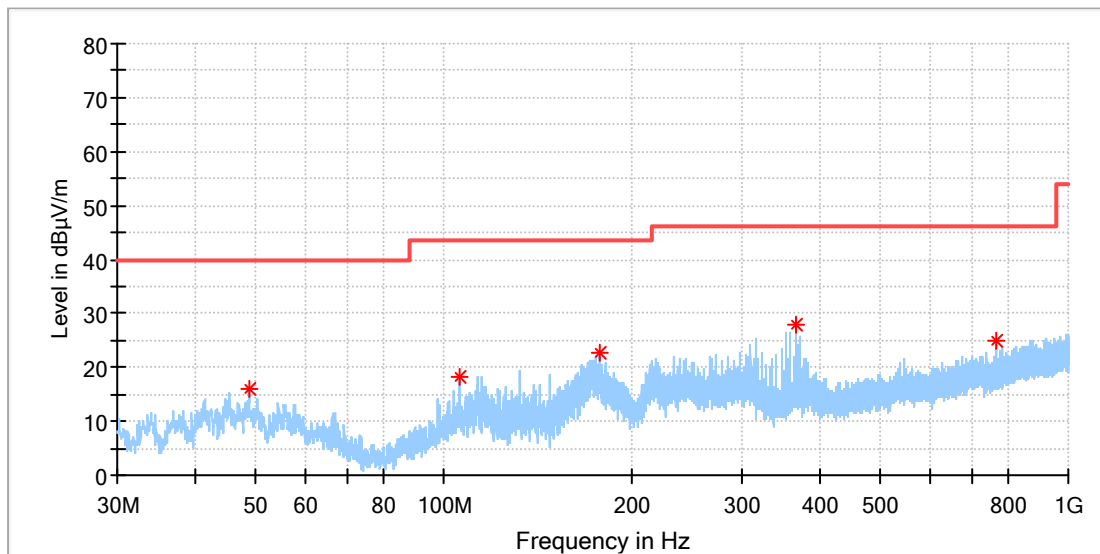
Appendix A.8: Test Results of Radiated Spurious Emissions

Note: 1. Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported. 2. This testing was carried out on different modulations, but only the worst case (GFSK) was presented in this report.

30MHz - 1GHz

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

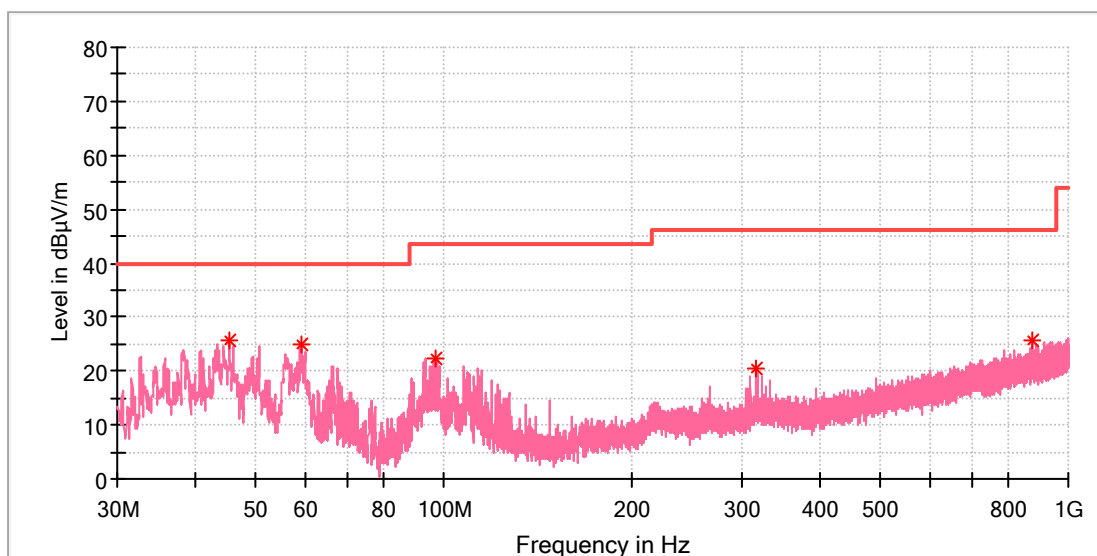


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
48.803077	16.17	40.00	23.83	100.0	H	0.0	-18.6
105.883846	18.35	43.50	25.15	100.0	H	8.0	-19.1
178.111539	22.62	43.50	20.88	100.0	H	0.0	-21.0
365.582692	27.86	46.00	18.14	100.0	H	326.0	-14.8
768.020769	24.77	46.00	21.23	100.0	H	32.0	-7.3

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



Critical Freqs

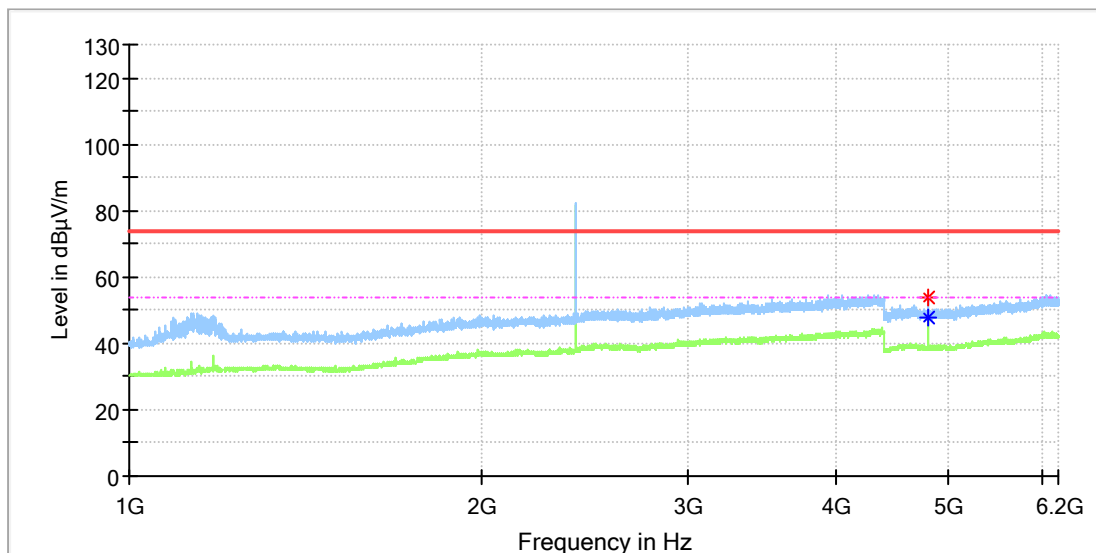
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
45.408077	25.64	40.00	14.36	100.0	V	270.0	-19.1
59.249231	24.94	40.00	15.06	100.0	V	104.0	-19.2
97.377692	22.44	43.50	21.06	100.0	V	2.0	-19.7
316.448462	20.62	46.00	25.38	100.0	V	303.0	-16.2
877.780000	25.53	46.00	20.47	100.0	V	16.0	-5.6

1GHz - 18GHz

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

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

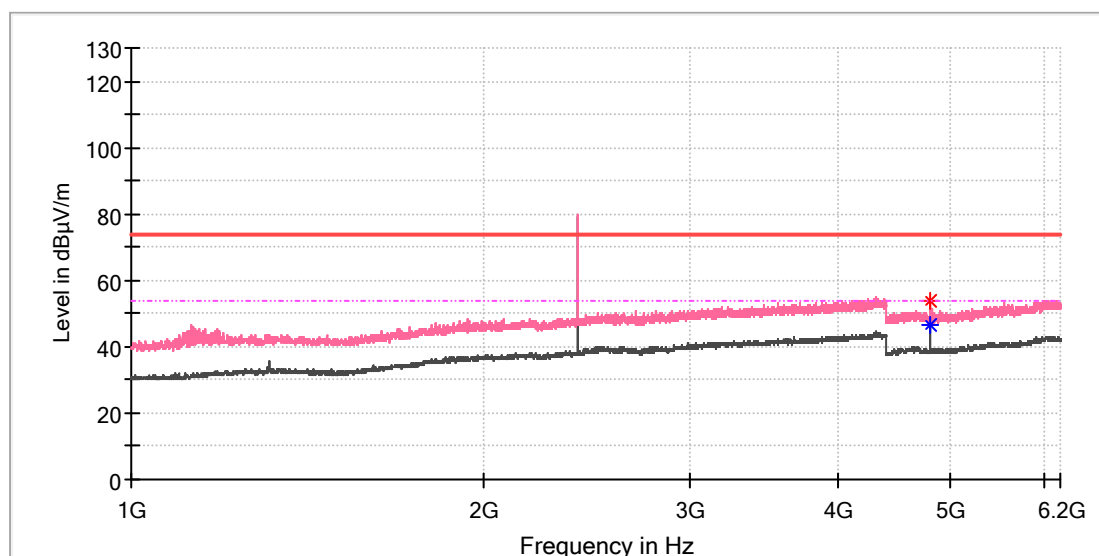


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	54.11	---	74.00	19.89	150.0	H	60.0	11.8
4803.500000	---	47.74	54.00	6.26	150.0	H	60.0	11.8

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

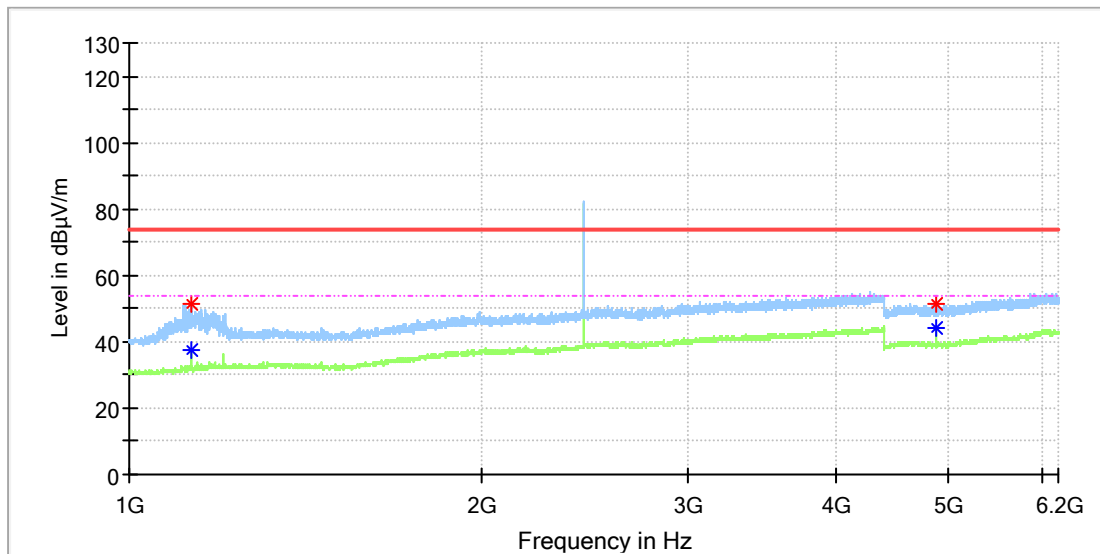


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4804.000000	53.60	---	74.00	20.40	150.0	V	295.0	11.8
4804.000000	---	46.50	54.00	7.50	150.0	V	295.0	11.8

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

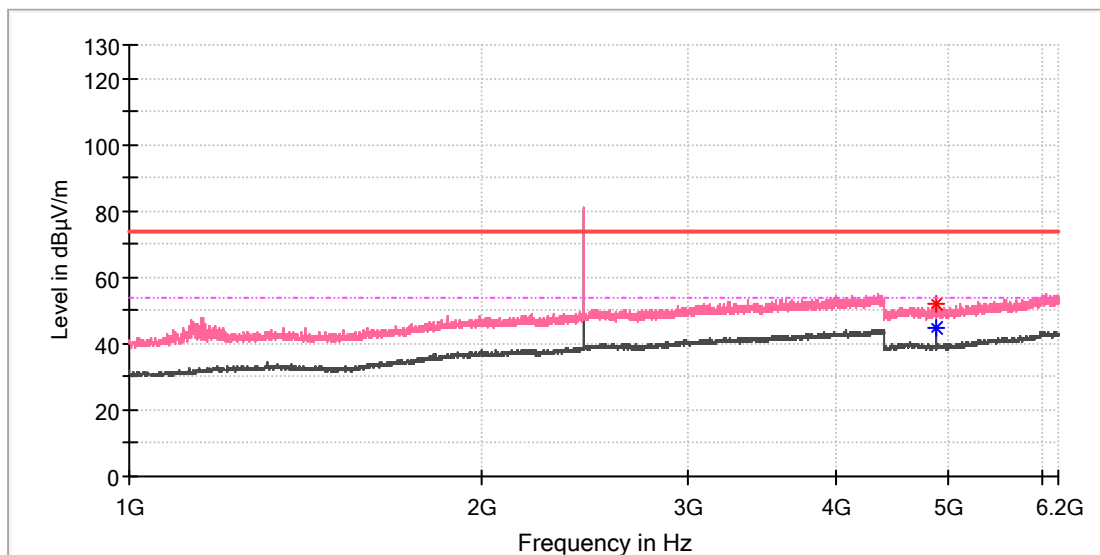


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1129.000000	51.30	---	74.00	22.70	150.0	H	343.0	0.4
1130.000000	---	37.48	54.00	16.52	150.0	H	349.0	0.4
4881.500000	51.66	---	74.00	22.34	150.0	H	60.0	11.8
4881.500000	---	44.23	54.00	9.77	150.0	H	60.0	11.8

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

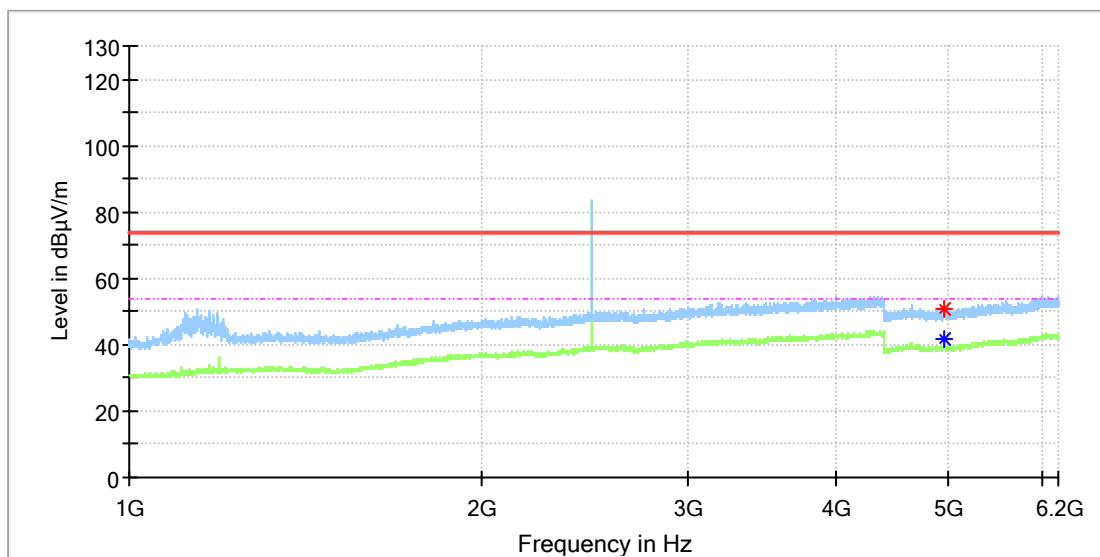


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4882.000000	52.12	---	74.00	21.88	150.0	V	294.0	11.8
4882.000000	---	44.62	54.00	9.38	150.0	V	294.0	11.8

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

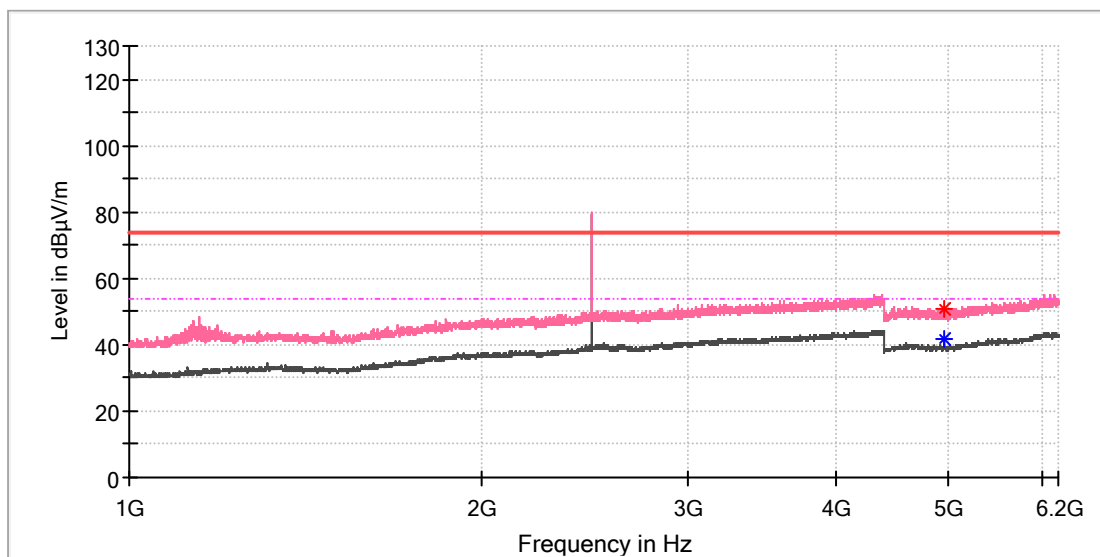


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	50.90	---	74.00	23.10	150.0	H	287.0	11.8
4959.500000	---	41.43	54.00	12.57	150.0	H	287.0	11.8

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

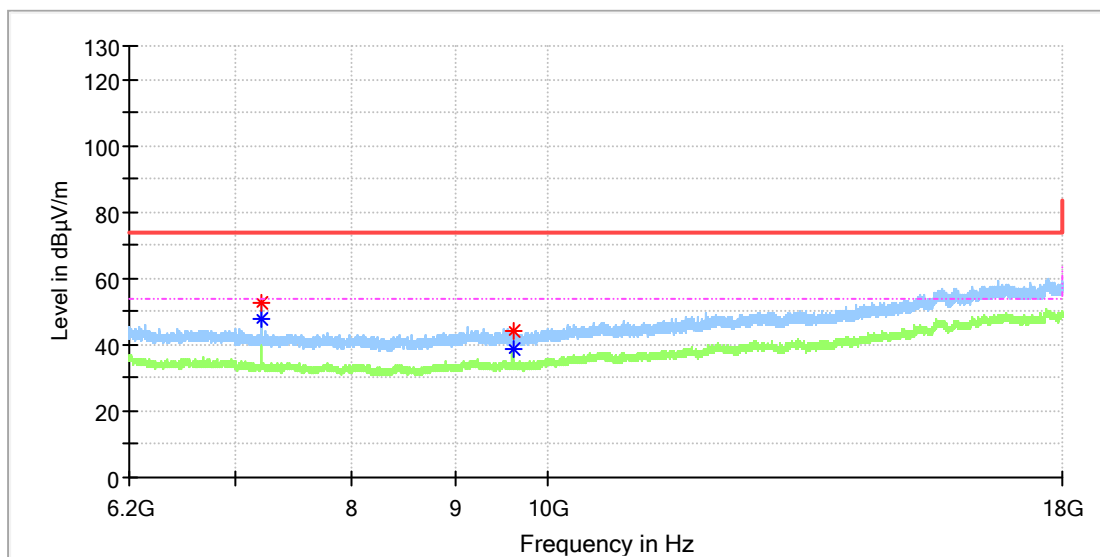


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4959.500000	50.75	---	74.00	23.25	150.0	V	298.0	11.8
4959.500000	---	41.49	54.00	12.51	150.0	V	298.0	11.8

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

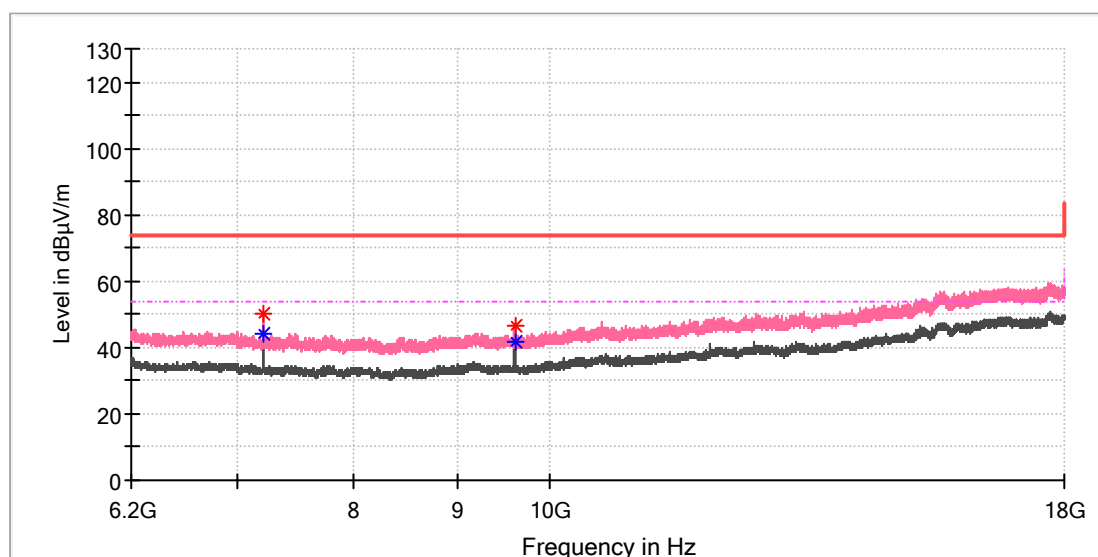


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	52.50	---	74.00	21.50	150.0	H	316.0	8.8
7205.950000	---	47.75	54.00	6.25	150.0	H	316.0	8.8
9607.741667	---	38.92	54.00	15.08	150.0	H	81.0	10.4
9608.233333	44.15	---	74.00	29.85	150.0	H	316.0	10.4

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

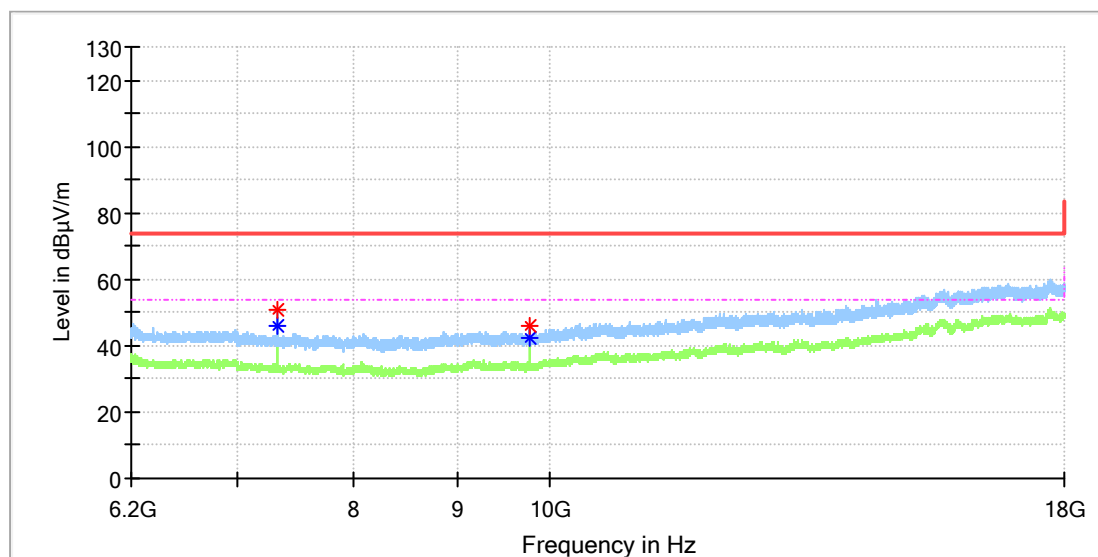


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	50.05	---	74.00	23.95	150.0	V	342.0	8.8
7205.950000	---	43.87	54.00	10.13	150.0	V	342.0	8.8
9607.741667	---	41.61	54.00	12.39	150.0	V	354.0	10.4
9608.233333	46.80	---	74.00	27.20	150.0	V	20.0	10.4

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

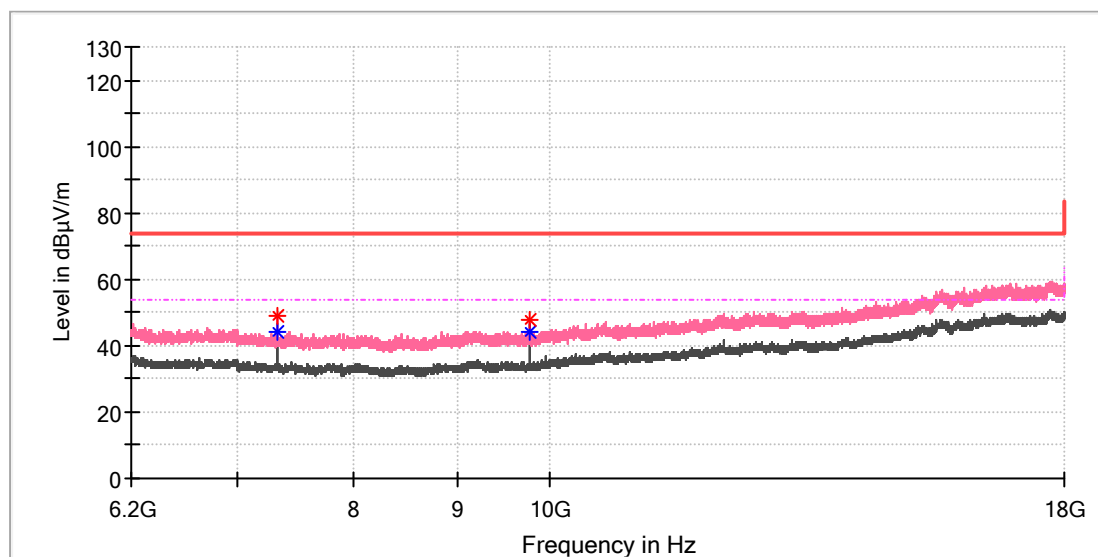


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.966667	50.93	---	74.00	23.07	150.0	H	320.0	8.2
7322.966667	---	45.77	54.00	8.23	150.0	H	320.0	8.2
9763.108333	46.16	---	74.00	27.84	150.0	H	311.0	10.4
9764.091667	---	42.28	54.00	11.72	150.0	H	311.0	10.4

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

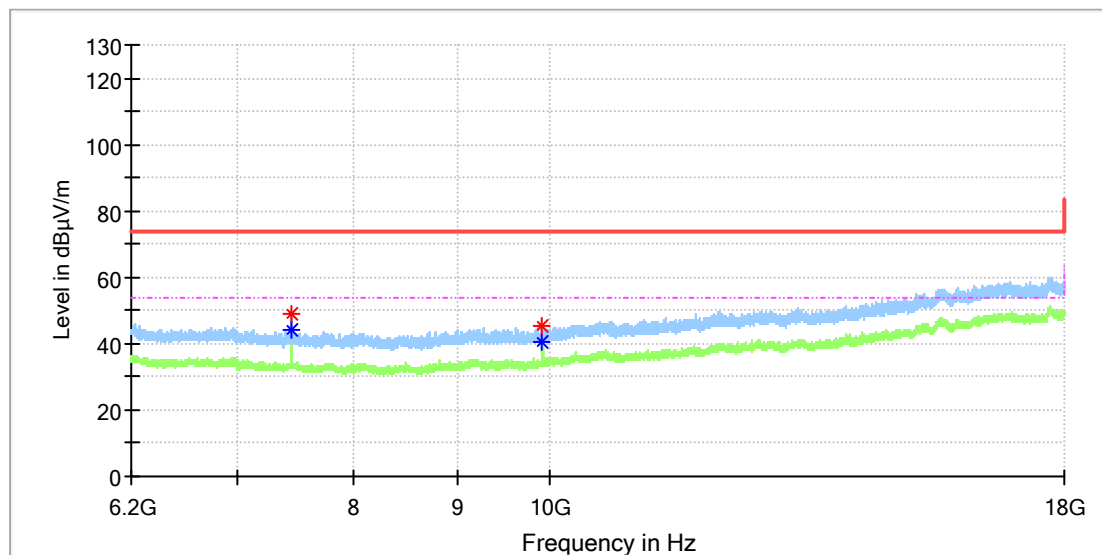


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7322.966667	---	44.24	54.00	9.76	150.0	V	27.0	8.2
7322.966667	48.68	---	74.00	25.32	150.0	V	27.0	8.2
9764.091667	47.80	---	74.00	26.20	150.0	V	324.0	10.4
9764.091667	---	44.18	54.00	9.82	150.0	V	324.0	10.4

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

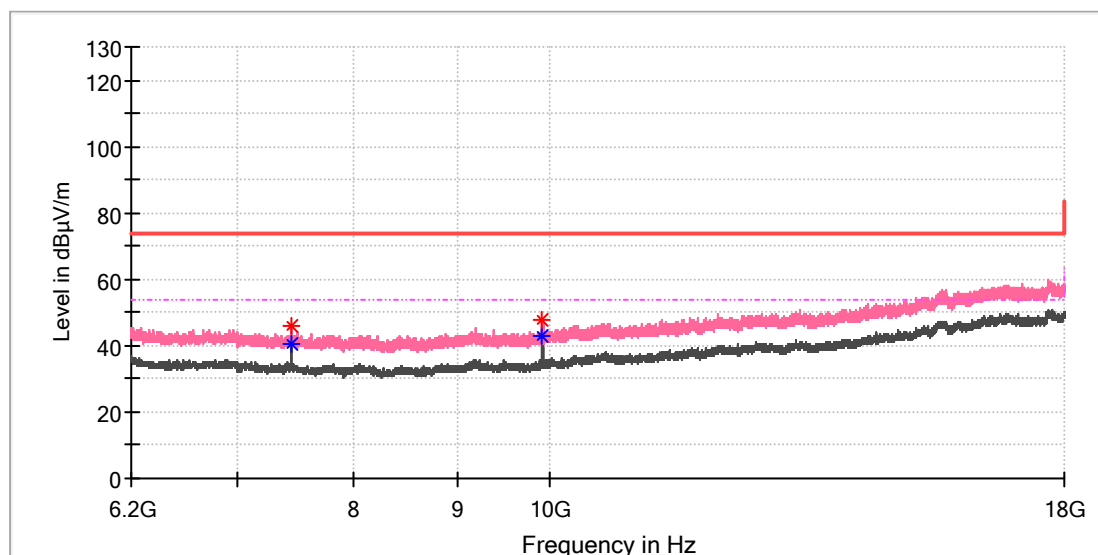


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.491667	---	44.04	54.00	9.96	150.0	H	319.0	8.4
7439.983333	48.73	---	74.00	25.27	150.0	H	319.0	8.4
9919.458333	45.14	---	74.00	28.86	150.0	H	309.0	10.8
9919.950000	---	40.64	54.00	13.36	150.0	H	309.0	10.8

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



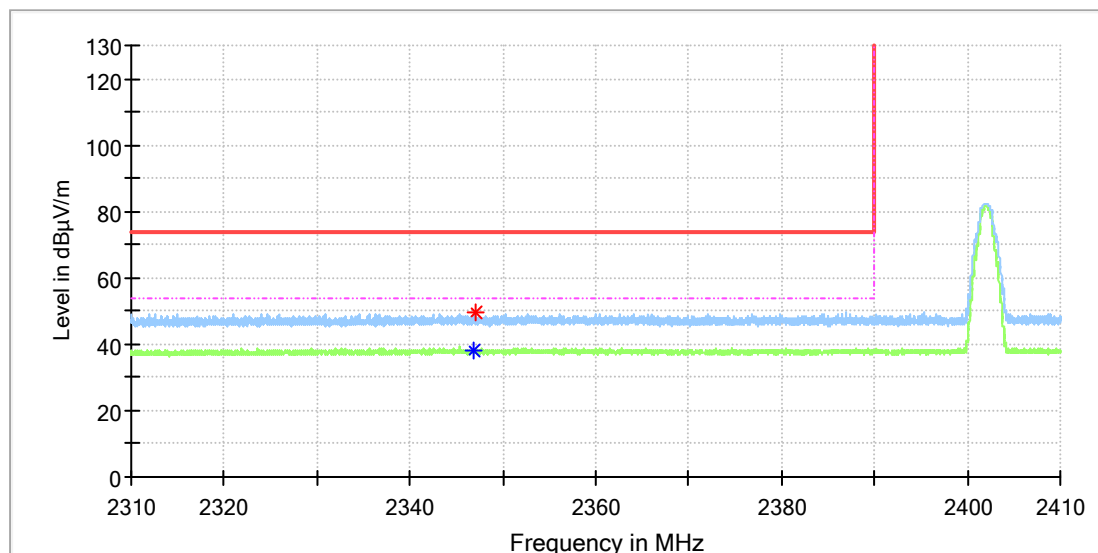
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7439.983333	46.20	---	74.00	27.80	150.0	V	25.0	8.4
7439.983333	---	40.29	54.00	13.71	150.0	V	25.0	8.4
9919.950000	47.60	---	74.00	26.40	150.0	V	301.0	10.8
9919.950000	---	42.63	54.00	11.37	150.0	V	301.0	10.8

Appendix A.9: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

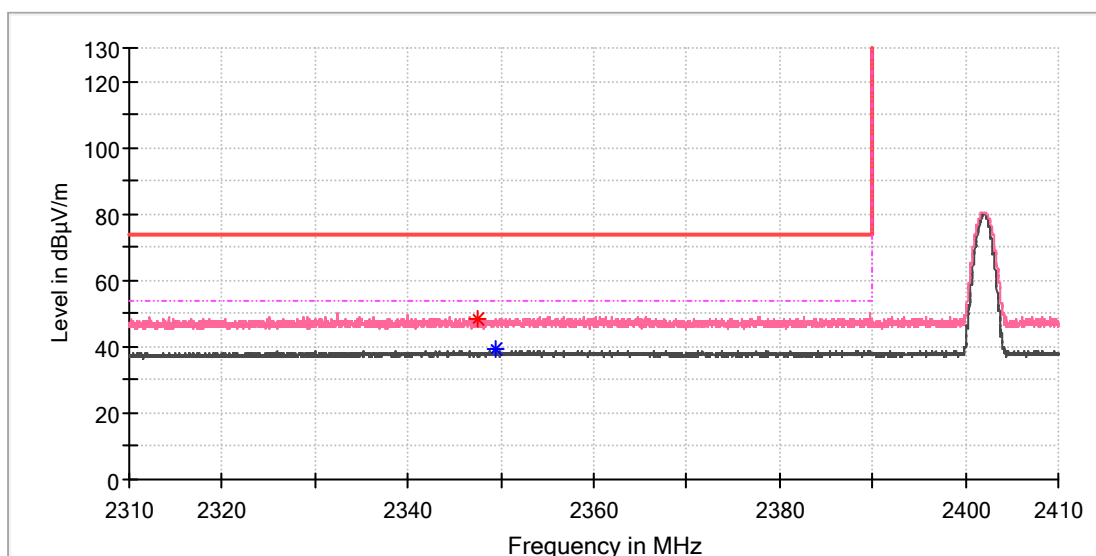


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2346.955882	---	38.38	54.00	15.62	150.0	H	321.0	6.9
2346.970588	49.77	---	74.00	24.23	150.0	H	155.0	6.9

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

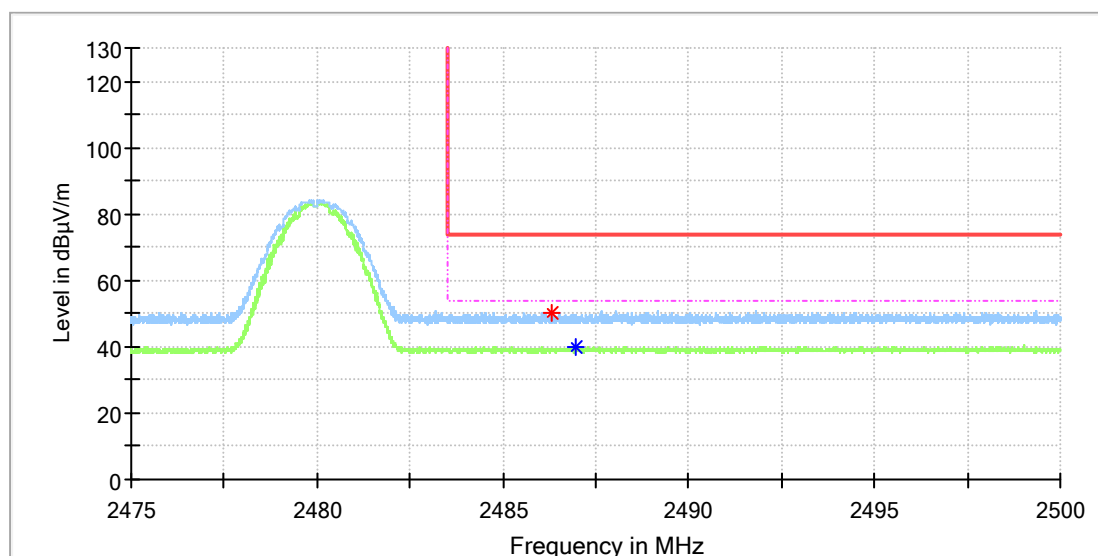


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2347.588235	48.61	---	74.00	25.39	150.0	V	168.0	6.9
2349.397059	---	39.11	54.00	14.89	150.0	V	118.0	6.9

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

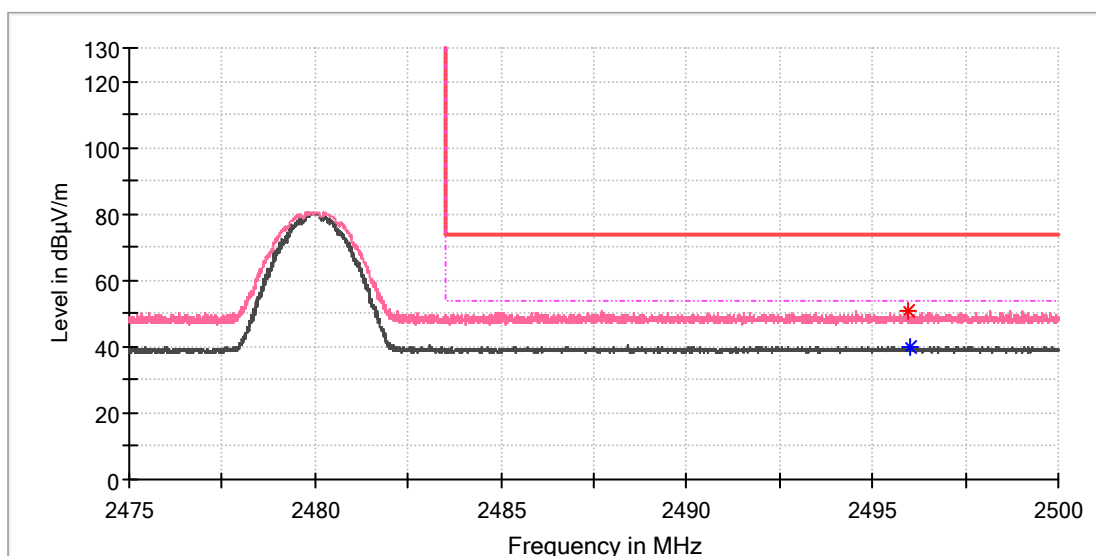


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2486.327206	50.28	---	74.00	23.72	150.0	H	32.0	7.4
2486.948530	---	39.92	54.00	14.08	150.0	H	236.0	7.4

EUT Information

EUT Name:	Professional Soudbar
Model:	PSB-2
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168482523/A003712673-001
Test Voltage::	120V/60Hz
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



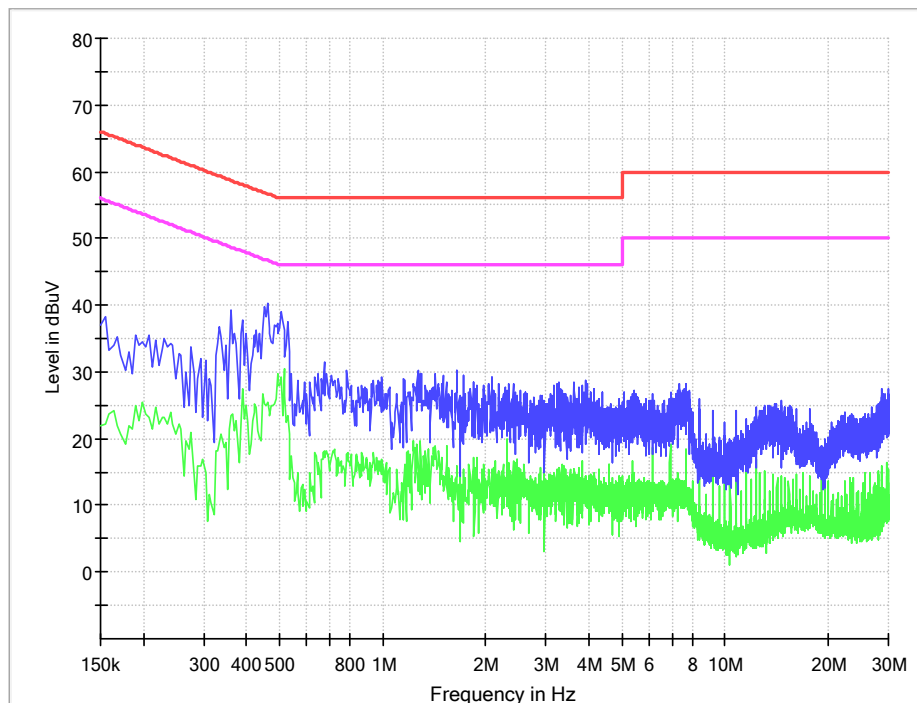
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2495.981618	50.92	---	74.00	23.08	150.0	V	100.0	7.4
2495.992647	---	40.00	54.00	14.00	150.0	V	226.0	7.4

Appendix A.10: Test Results of Conducted Emissions on AC Mains

EUT Information

EUT Name	Professional Soudbar
Model:	PSB-2
Test Mode:	Bluetooth
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15C
Test By:/Review By:	Yangchang/ Zhouli
Tem./Hum./Pressure:	23.4°C/53.2%/101kPa
Remark:	



EUT Information

EUT Name	Professional Soudbar
Model:	PSB-2
Test Mode:	Bluetooth
Test Voltage:	AC 120V/60Hz
Test Standard:	FCC Part 15C
Test By:/Review By:	Yangchang/ Zhouli
Tem./Hum./Pressure:	23.4°C/53.2%/101kPa
Remark:	

