

Prüfbericht-Nr.: Test report no.:	CN22KXO3 001	Auftrags-Nr.: Order no.:	168363827	Seite 1 von 25 Page 1 of 25
Kunden-Referenz-Nr.: Client reference no.:	N/A	Auftragsdatum: Order date:	2022-03-23	
Auftraggeber: Client:	eBuyNow eCommerce Ltd The Atrium, 1321 Blanshard Street, Suite 301 Victoria, British Columbia, BC V8W 0B6 Victoria, Canada			
Prüfgegenstand: Test item:	Moto Watch 200			
Bezeichnung / Typ-Nr.: Identification / Type no.:	MOSWZ200 (Trademark: )			
Auftrags-Inhalt: Order content:	Type test			
Prüfgrundlage: Test specification:	CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 2 February 2017 CFR47 FCC Part 15: Subpart C Section 15.207 RSS-Gen Issue 5 March 2019 CFR47 FCC Part 15: Subpart C Section 15.209 RSS-102 Issue 5 March 2015 CFR47 FCC Part 2.1093			
Wareneingangsdatum: Date of receipt:	2022-06-15	Refer to photos document		
Prüfmuster-Nr.: Test sample No.:	A003279449-010~016 A003281991-001~005			
Prüfzeitraum: Testing period:	2022-06-17 – 2022-07-21			
Ort der Prüfung: Place of testing:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: Testing laboratory:	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: Test result*:	Pass			
geprüft von: tested by:	genehmigt von: authorized by:			
Datum: Date: 2022-09-19	 Signed by: Alex Lan		 Signed by: Winnie Hou	
Stellung / Position	Assistant Project Manager	Ausstellungsdatum: Issue date: 2022-09-20	Department Manager	
Sonstiges / Other:	FCC ID: 2AT76-MOSWZ200 IC: 22297-MOSWZ200 HVIN: MOSWZ200			
Zustand des Prüfgegenstandes bei Anlieferung: Condition of the test item at delivery:	Prüfmuster vollständig und unbeschädigt Test item complete and undamaged:			
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested				
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

Prüfbericht - Nr.: CN22KXO3 001

Test report no.:

Seite 2 von 25

Page 2 of 25

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 NUMBER OF HOPPING FREQUENCY

RESULT: Pass

5.1.9 TIME OF OCCUPANCY

RESULT: Pass

5.1.10 CONDUCTED EMISSION ON AC MAINS

RESULT: Pass

6.1.1 ELECTROMAGNETIC FIELDS

RESULT: Pass

Contents

1	GENERAL REMARKS	5
1.1	COMPLEMENTARY MATERIALS	5
2	TEST SITES.....	5
2.1	TEST FACILITIES.....	5
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	6
2.3	TRACEABILITY.....	7
2.4	CALIBRATION.....	7
2.5	MEASUREMENT UNCERTAINTY	7
2.6	LOCATION OF ORIGINAL DATA	7
2.7	STATUS OF FACILITY USED FOR TESTING.....	7
3	GENERAL PRODUCT INFORMATION.....	8
3.1	PRODUCT FUNCTION AND INTENDED USE.....	8
3.2	RATINGS AND SYSTEM DETAILS	8
3.3	INDEPENDENT OPERATION MODES	10
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS.....	10
3.5	SUBMITTED DOCUMENTS.....	10
4	TEST SET-UP AND OPERATION MODES	11
4.1	PRINCIPLE OF CONFIGURATION SELECTION.....	11
4.2	TEST OPERATION AND TEST SOFTWARE	11
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT.....	11
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE.....	11
4.5	TEST SETUP DIAGRAM	12
5	TEST RESULTS.....	14
5.1	TRANSMITTER REQUIREMENT & TEST SUITES.....	14
5.1.1	<i>Antenna Requirement.....</i>	<i>14</i>
5.1.2	<i>Maximum Conducted Output Power</i>	<i>15</i>
5.1.3	<i>99% Bandwidth</i>	<i>16</i>
5.1.4	<i>Conducted Spurious Emissions Measured in 100 kHz Bandwidth</i>	<i>17</i>
5.1.5	<i>Radiated Spurious Emission.....</i>	<i>18</i>
5.1.6	<i>20dB Bandwidth.....</i>	<i>19</i>
5.1.7	<i>Carrier Frequency Separation.....</i>	<i>20</i>
5.1.8	<i>Number of Hopping Frequency.....</i>	<i>21</i>
5.1.9	<i>Time of Occupancy</i>	<i>22</i>
5.1.10	<i>Conducted Emission on AC Mains.....</i>	<i>23</i>
6	SAFETY HUMAN EXPOSURE	24
6.1	RADIO FREQUENCY EXPOSURE COMPLIANCE	24
6.1.1	<i>Electromagnetic Fields</i>	<i>24</i>
7	PHOTOGRAPHS OF THE TEST SET-UP	25

Prüfbericht - Nr.: CN22KXO3 001
 Test report no.:

Seite 4 von 25
 Page 4 of 25

8	LIST OF TABLES	25
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Prüfbericht - Nr.: CN22KXO3 001
Test report no.:

Seite 5 von 25
Page 5 of 25

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

Appendix B: Test Results.

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No. 362 Huanguan Road Middle, Longhua District, Shenzhen 518110, People's Republic of China

FCC Registration No.: 694916

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

Prüfbericht - Nr.: CN22KXO3 001

Test report no.:

Seite 6 von 25

Page 6 of 25

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	2022-09-28
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	2022-09-28
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	2022-09-28
DC power supply	Keysight	E3642A	MY61276100	2022-09-28
Power Control Unit	Tonscend	JS0806-4ADC	N/A	2022-09-28
Automation Control Unit	Tonscend	JS0806-2	21C8060396	2022-09-28
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	YLX23JMF	N/A
Shielding Room 8#	Albatross	SR8	APC17151-SR8	2024-06-22
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	2022-08-10
Signal Analyzer	R&S	FSV 40	101439	2022-08-09
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	2022-08-09
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	2022-08-09
Amplifier	R&S	SCU-18F	180070	2022-08-09
Amplifier	R&S	SCU40A	100475	2022-08-09
Trilog Broadband Antenna (30 MHz - 7 GHz)	Schwarzbeck	VULB 9162	193	2022-08-08
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	2022-08-08
Wideband Ridged Horn Antenna (18-40 GHz)	Steatite	QMS-00880	19067	2022-08-08
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	2022-09-13
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	2024-06-22

Conducted Emissions				
Equipment	Manufacturer	M/N	S/N	Calibrated until
EMI Test Receiver	R&S	ESR3	102680	2023-02-27
Artificial Mains Network	R&S	ENV216	101445	2023-02-27
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A

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 Road Middle, Longhua District, Shenzhen 518110, 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 smart watch which supports Bluetooth dual mode and GNSS technologies.

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	Moto Watch 200
Type Designation	MOSWZ200
Trademark	
FCC ID	2AT76-MOSWZ200
IC	22297-MOSWZ200
HVIN	MOSWZ200
Extreme Temperature Range	0°C - +45°C
Operating Voltage	DC 3.85V, 355mAh via built-in Lithium Battery DC 5V via power cable for charging
Technical Specification of Classic Bluetooth	
Bluetooth Core Version	Bluetooth 5.0
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	79 channels
Channel separation	1MHz
Modulation	GFSK, 8DPSK, $\pi/4$ DQPSK
Antenna Type	Ceramic antenna
Antenna Gain	3.45 dBi
Technical Specification of Bluetooth Low Energy	
Bluetooth Core Version	Bluetooth 5.2
Operating Frequency band	2402 ~ 2480 MHz
Channel Number	40 channels
Channel separation	2MHz
Data rate	125kbps, 500kbps, 1Mbps, 2Mbps
Modulation	GFSK
Antenna Type	Ceramic antenna
Antenna Gain	3.45 dBi

According to the declaration of the applicant, the Classic Bluetooth and Bluetooth Low Energy cannot transmit simultaneous.

Prüfbericht - Nr.: **CN22KXO3 001**

Test report no.:

Seite 9 von 25

Page 9 of 25

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	--	--

Table 4: RF Channel and Frequency of Bluetooth Low Energy

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
00	2402.00	10	2422.00	20	2442.00	30	2462.00
01	2404.00	11	2424.00	21	2444.00	31	2464.00
02	2406.00	12	2426.00	22	2446.00	32	2466.00
03	2408.00	13	2428.00	23	2448.00	33	2468.00
04	2410.00	14	2430.00	24	2450.00	34	2470.00
05	2412.00	15	2432.00	25	2452.00	35	2472.00
06	2414.00	16	2434.00	26	2454.00	36	2474.00
07	2416.00	17	2436.00	27	2456.00	37	2476.00
08	2418.00	18	2438.00	28	2458.00	38	2478.00
09	2420.00	19	2440.00	29	2460.00	39	2480.00

3.3 Independent Operation Modes

The basic operation modes are:

- A. On
 - 1. Bluetooth transmitting mode (BDR & EDR mode)
 - a) Low Channel
 - b) Middle Channel
 - c) High Channel
- B. On, Transmitting on Hopping channel
- C. On, Charging with normal operating
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

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

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 tests were performed on model MOSWZ200 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
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)

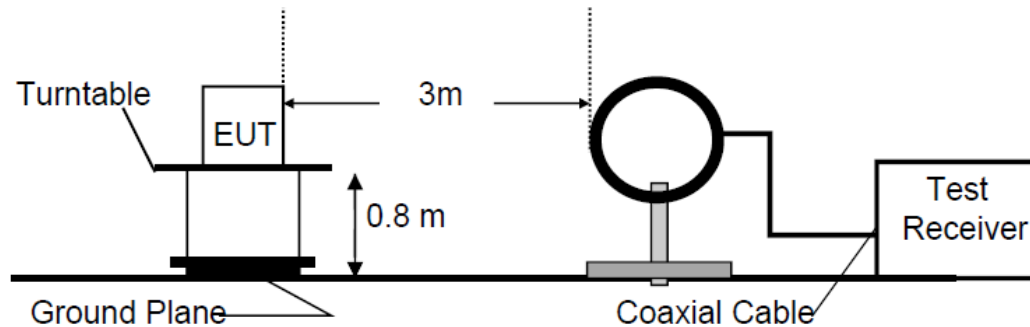


Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

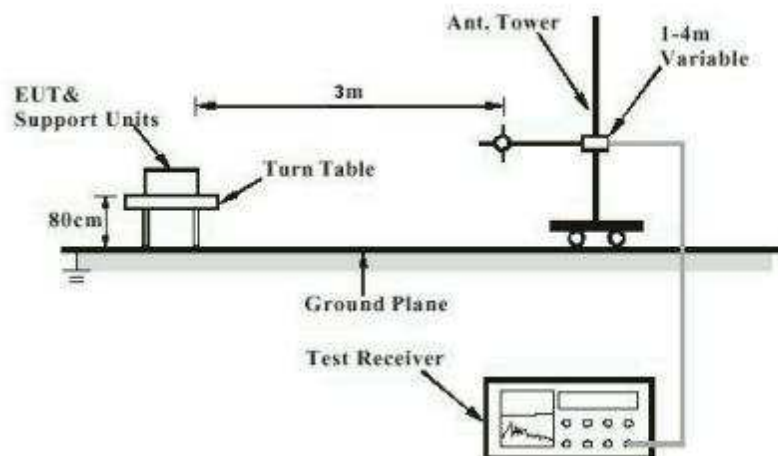


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

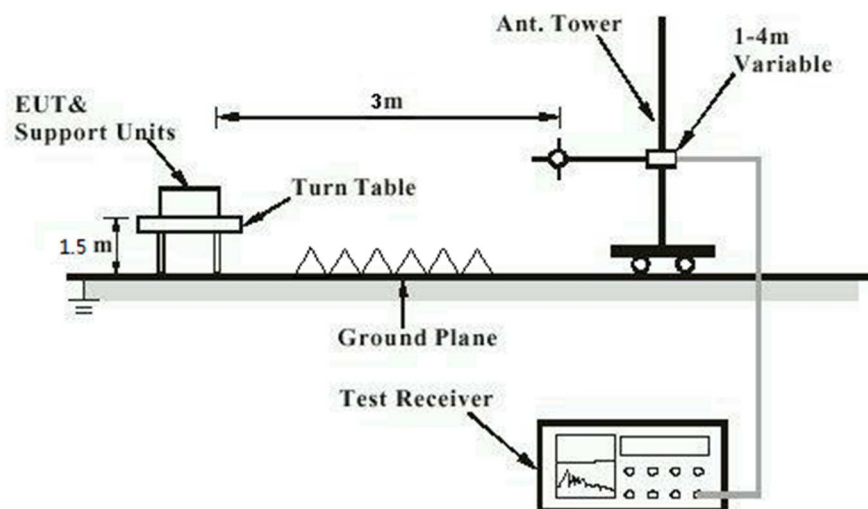


Diagram of Measurement Configuration for Mains Conduction Measurement

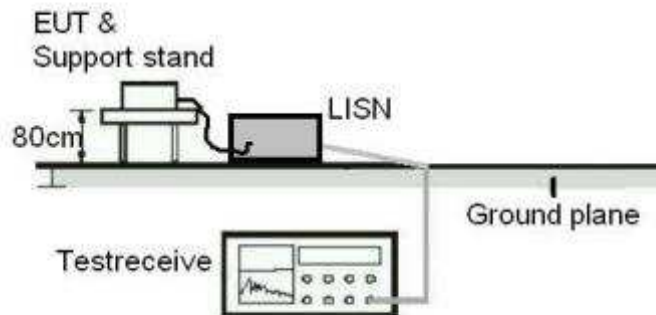
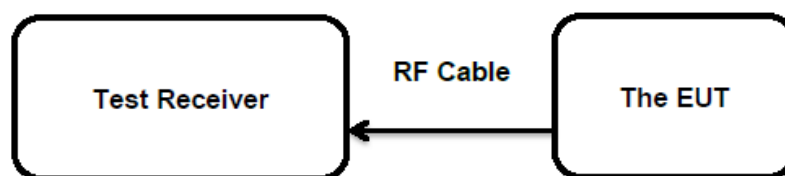


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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 two integral antenna, the directional gain of antennas are 3.45 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.

Prüfbericht - Nr.: CN22KXO3 001

Test report no.:

Seite 15 von 25

Page 15 of 25

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	2022-06-20
Input voltage	DC 5V by USB cable
Operation mode	A.1
Test channel	Low / Middle / High
Ambient temperature	25.2 °C
Relative humidity	42 %
Atmospheric pressure	101 kPa

Table 6: Test Result of Maximum Conducted Output Power

Test Mode	Channel Frequency (MHz)	Measured Peak Output Power		Limit (W)
		(dBm)	(W)	
BDR	2402	0.43	0.00110	< 0.125
	2441	0.21	0.00105	
	2480	0.74	0.00119	
EDR	2402	-0.39	0.00091	< 0.125
	2441	-0.52	0.00089	
	2480	-0.14	0.00097	

Note: The cable loss is taken into account in results and the maximum e.i.r.p. is 3.88 dBm less than 4W(36dBm).

Prüfbericht - Nr.: CN22KXO3 001

Test report no.:

Seite 16 von 25

Page 16 of 25

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	: 2022-06-17
Input voltage	: DC 5V by USB cable
Operation mode	: A.1
Test channel	: Low / Middle / High
Ambient temperature	: 25.2 °C
Relative humidity	: 42 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B

Prüfbericht - Nr.: CN22KXO3 001

Test report no.:

Seite 17 von 25

Page 17 of 25

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	: 2022-06-20
Input voltage	: DC 5V by USB cable
Operation mode	: A.1
Test channel	: Low / Middle / High
Ambient temperature	: 25.2 °C
Relative humidity	: 42 %
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 B.

Prüfbericht - Nr.: CN22KXO3 001

Test report no.:

Seite 18 von 25

Page 18 of 25

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	: 2022-07-14
Input voltage	: DC 5V by USB cable
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:

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

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

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: CN22KXO3 001

Test report no.:

Seite 19 von 25

Page 19 of 25

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 : 2022-06-17
Input voltage : DC 5V by USB cable
Operation mode : A.1
Test channel : Low / Middle / High
Ambient temperature : 25.2 °C
Relative humidity : 42 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: CN22KXO3 001

Test report no.:

Seite 20 von 25

Page 20 of 25

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	: 2022-06-18
Input voltage	: DC 5V by USB cable
Operation mode	: B
Test channel	: Low / Middle / High
Ambient temperature	: $25.2\text{ }^{\circ}\text{C}$
Relative humidity	: 42 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: CN22KXO3 001

Test report no.:

Seite 21 von 25

Page 21 of 25

5.1.8 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	: 2022-06-18
Input voltage	: DC 5V by USB cable
Operation mode	: B
Ambient temperature	: 25.2 °C
Relative humidity	: 42 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: CN22KXO3 001

Test report no.:

Seite 22 von 25

Page 22 of 25

5.1.9 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	: 2022-06-18
Input voltage	: DC 5V by USB cable
Operation mode	: B
Test channel	: Low / Middle / High
Ambient temperature	: 25.2 °C
Relative humidity	: 42 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: CN22KXO3 001

Test report no.:

Seite 23 von 25

Page 23 of 25

5.1.10 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	: 2022-06-23
Input voltage	: AC 120V, 60Hz
Operation mode	: C
Earthing	: Not connected
Ambient temperature	: 24.1°C
Relative humidity	: 52.6%
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix B.

Prüfbericht - Nr.: CN22KXO3 001

Test report no.:

Seite 24 von 25

Page 24 of 25

6 Safety Human Exposure

6.1 Radio Frequency Exposure Compliance

6.1.1 Electromagnetic Fields

RESULT:

Pass

Test Specification

Test standard : CFR47 FCC Part 2.1093
RSS-102 Issue 5 March 2019
FCC KDB Publication 447498 v06
Limit : CFR47 FCC Part 1.1310

The measured maximum conducted output power of the EUT is 0.43dBm $\approx$ 1.104 mW, which is below the SAR exclusion threshold level 10mW (SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and $\leq$ 50 mm), hence the EUT is excluded from SAR evaluation according to FCC KDB publication 447498 D01: Mobile and Portable RF Exposure. Guidance v06.

The measured maximum conducted output power of the EUT is 0.43dBm $\approx$ 1.104 mW and the measured maximum specified e.i.r.p of the EUT is 3.88dBm $\approx$ 2.443mW, which is below the SAR exclusion threshold level 4mW, hence the EUT is excluded from SAR evaluation according to RSS-102 Issue 5 section 2.5.1.

7 Photographs of the Test Set-Up

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

8 List of Tables

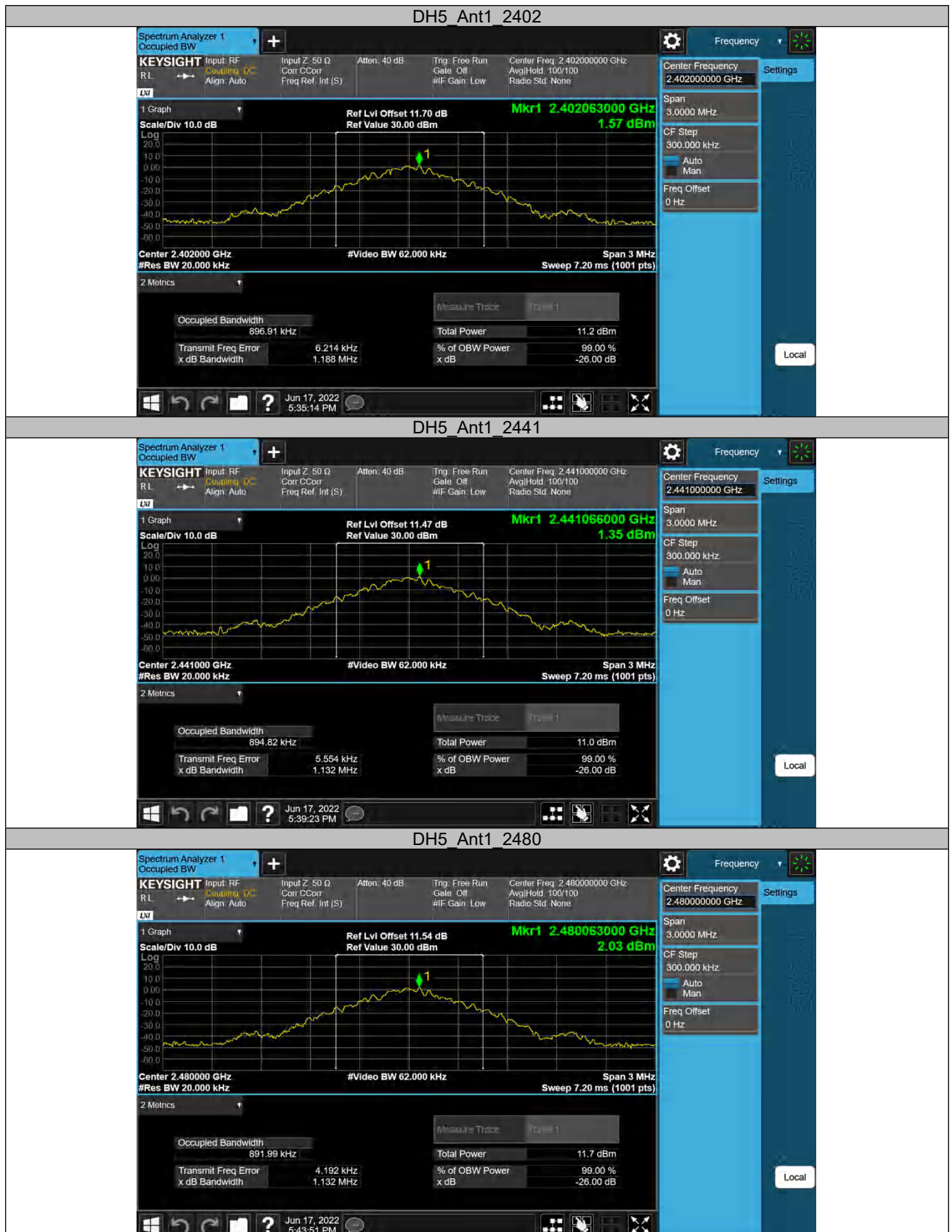
Table 1: List of Test and Measurement Equipment..... 6
 Table 2: Technical Specification of EUT 8
 Table 3: RF Channel and Frequency of Classic Bluetooth..... 9
 Table 4: RF Channel and Frequency of Bluetooth Low Energy..... 9
 Table 5: List of Accessories and Auxiliary Equipment..... 11
 Table 6: Test Result of Maximum Conducted Output Power..... 15

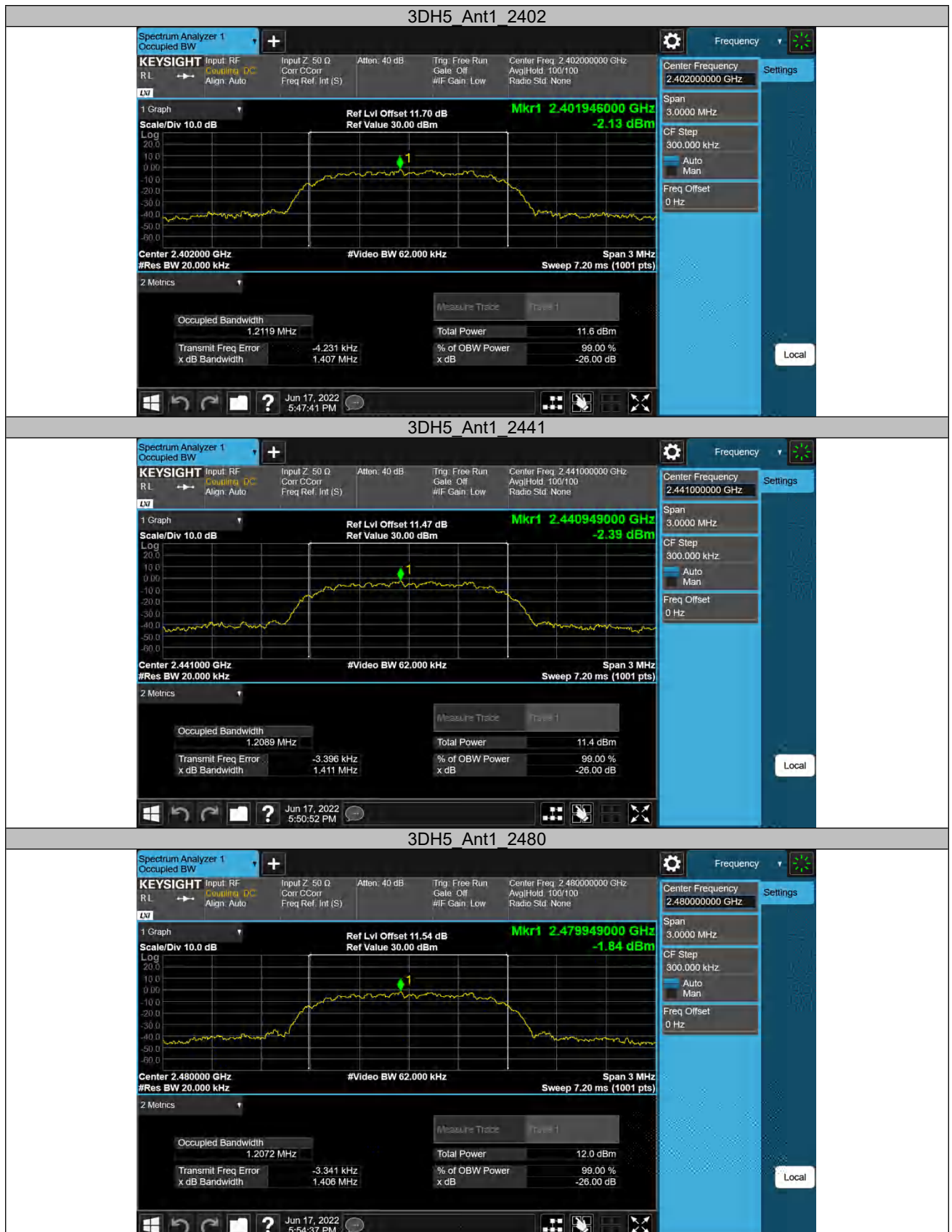
Appendix B: Test Results

APPENDIX B: TEST RESULTS	1
APPENDIX B.1: TEST RESULTS OF 99% BANDWIDTH	2
APPENDIX B.2: TEST RESULTS OF 20dB BANDWIDTH	5
APPENDIX B.3: TEST RESULTS OF CARRIER FREQUENCY SEPARATION	8
APPENDIX B.4: TEST RESULTS OF NUMBER OF HOPPING FREQUENCY	9
APPENDIX B.5: TEST RESULTS OF TIME OF OCCUPANCY	10
APPENDIX B.6: TEST RESULTS OF CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 kHz BANDWIDTH	15
<i>Conducted Spurious Emission</i>	15
<i>Band Edge</i>	22
APPENDIX B.7: TEST RESULTS OF RADIATED SPURIOUS EMISSIONS	26
30MHz - 1GHz	26
1GHz - 18GHz	28
APPENDIX B.8: TEST RESULTS OF RADIATED EMISSIONS IN RESTRICTED BANDS	40
APPENDIX B.9: TEST RESULTS OF CONDUCTED EMISSION	44

Appendix B.1: Test Results of 99% Bandwidth

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89691	2401.558	2402.455	---	PASS
		2441	0.89482	2440.558	2441.453	---	PASS
		2480	0.89199	2479.558	2480.450	---	PASS
3DH5	Ant1	2402	1.2119	2401.390	2402.602	---	PASS
		2441	1.2089	2440.392	2441.601	---	PASS
		2480	1.2072	2479.393	2480.600	---	PASS





Appendix B.2: Test Results of 20dB Bandwidth

TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.948	2401.544	2402.492	---	PASS
		2441	0.948	2440.541	2441.489	---	PASS
		2480	0.951	2479.541	2480.492	---	PASS
3DH5	Ant1	2402	1.350	2401.328	2402.678	---	PASS
		2441	1.353	2440.325	2441.678	---	PASS
		2480	1.350	2479.328	2480.678	---	PASS

DH5_Ant1_2402

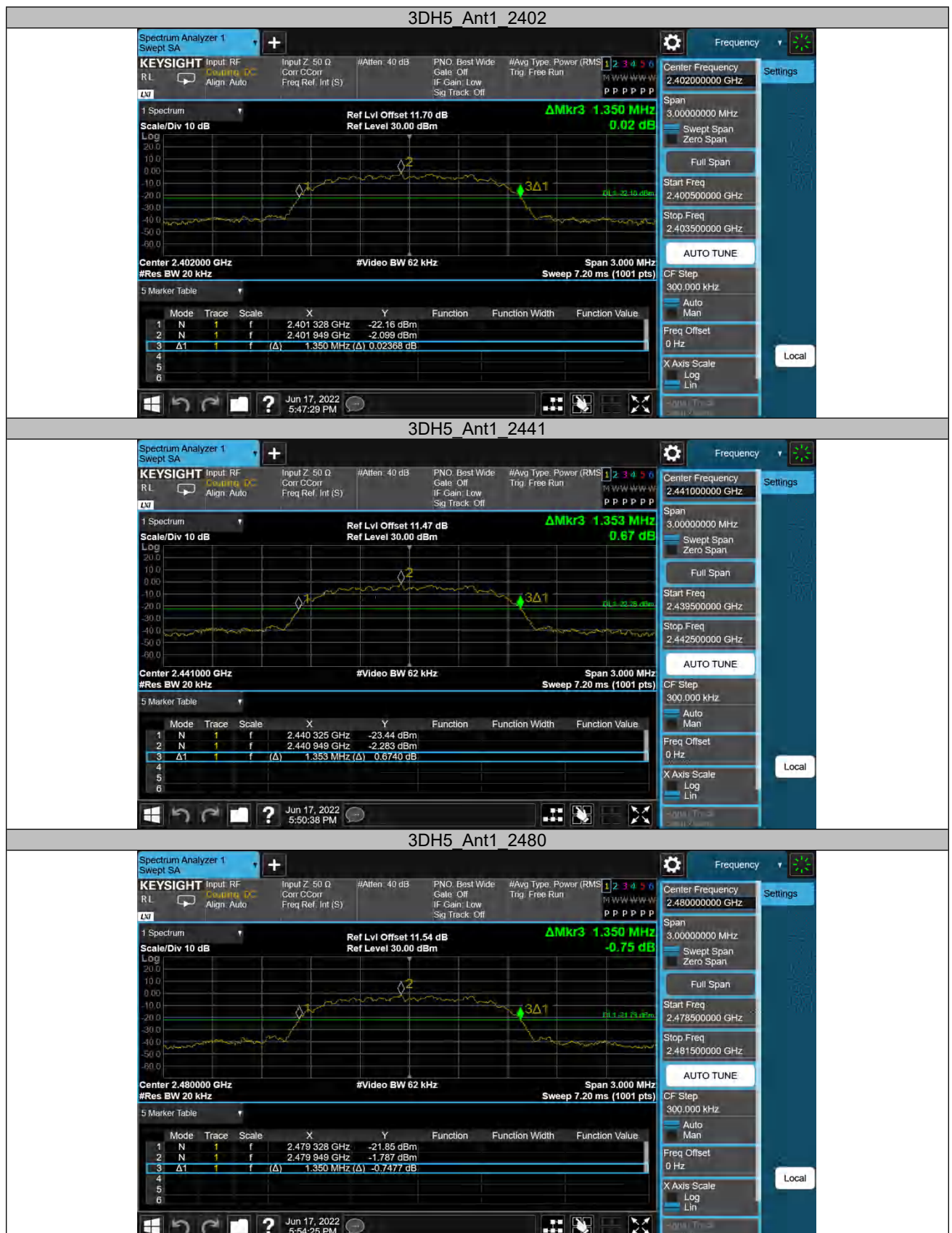


DH5_Ant1_2441



DH5_Ant1_2480





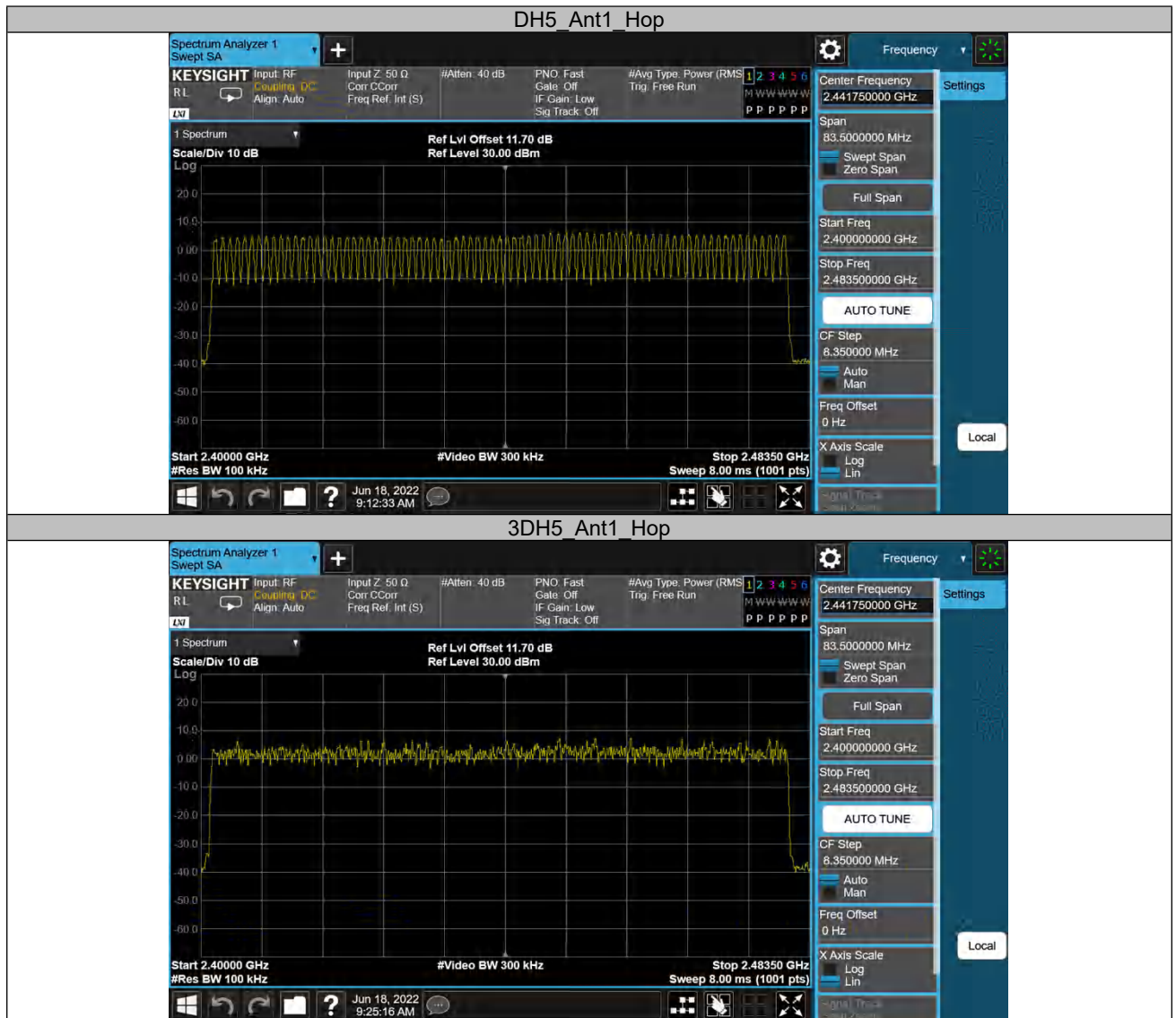
Appendix B.3: Test Results of Carrier Frequency Separation

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	0.838	≥0.634	PASS
3DH5	Ant1	Hop	1.172	≥0.902	PASS



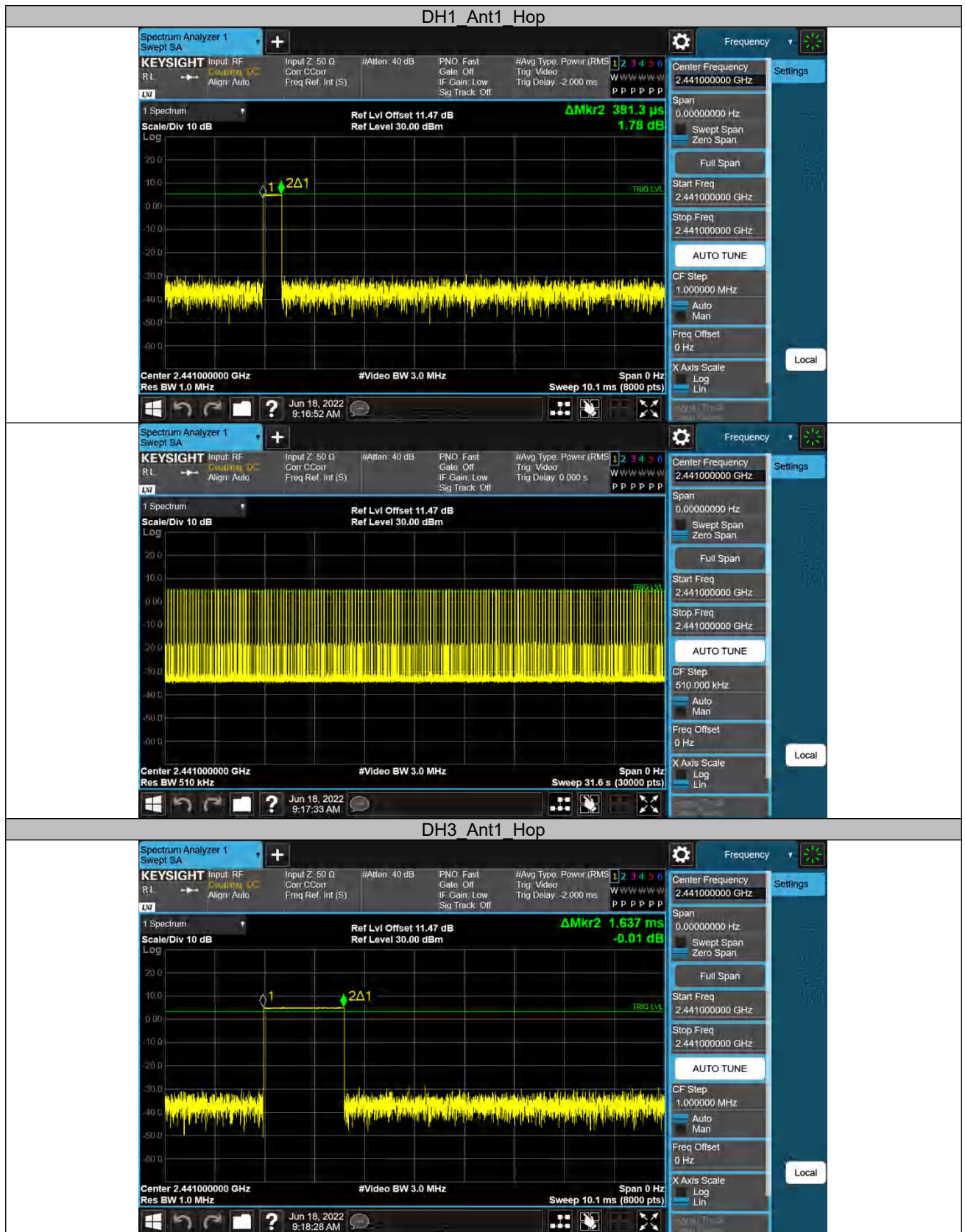
Appendix B.4: Test Results of Number of Hopping Frequency

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



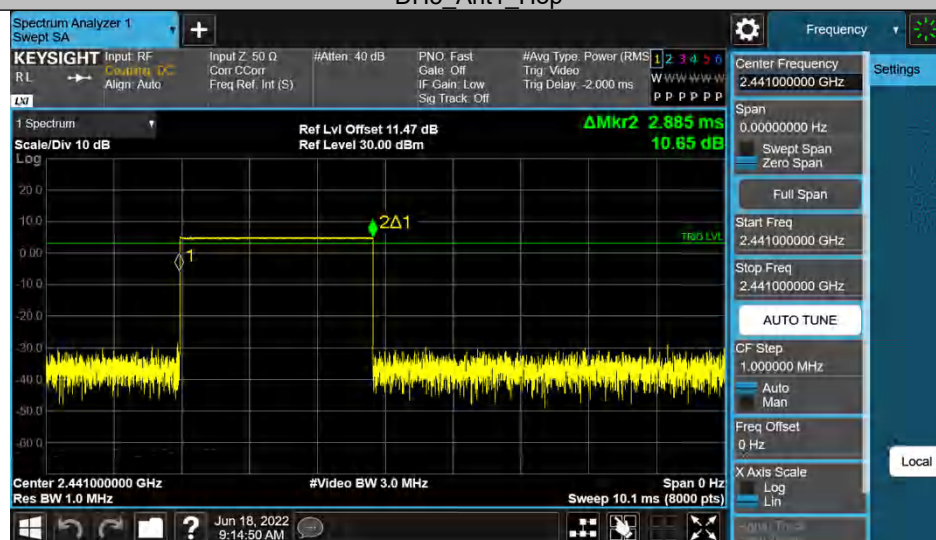
Appendix B.5: Test Results of Time of Occupancy

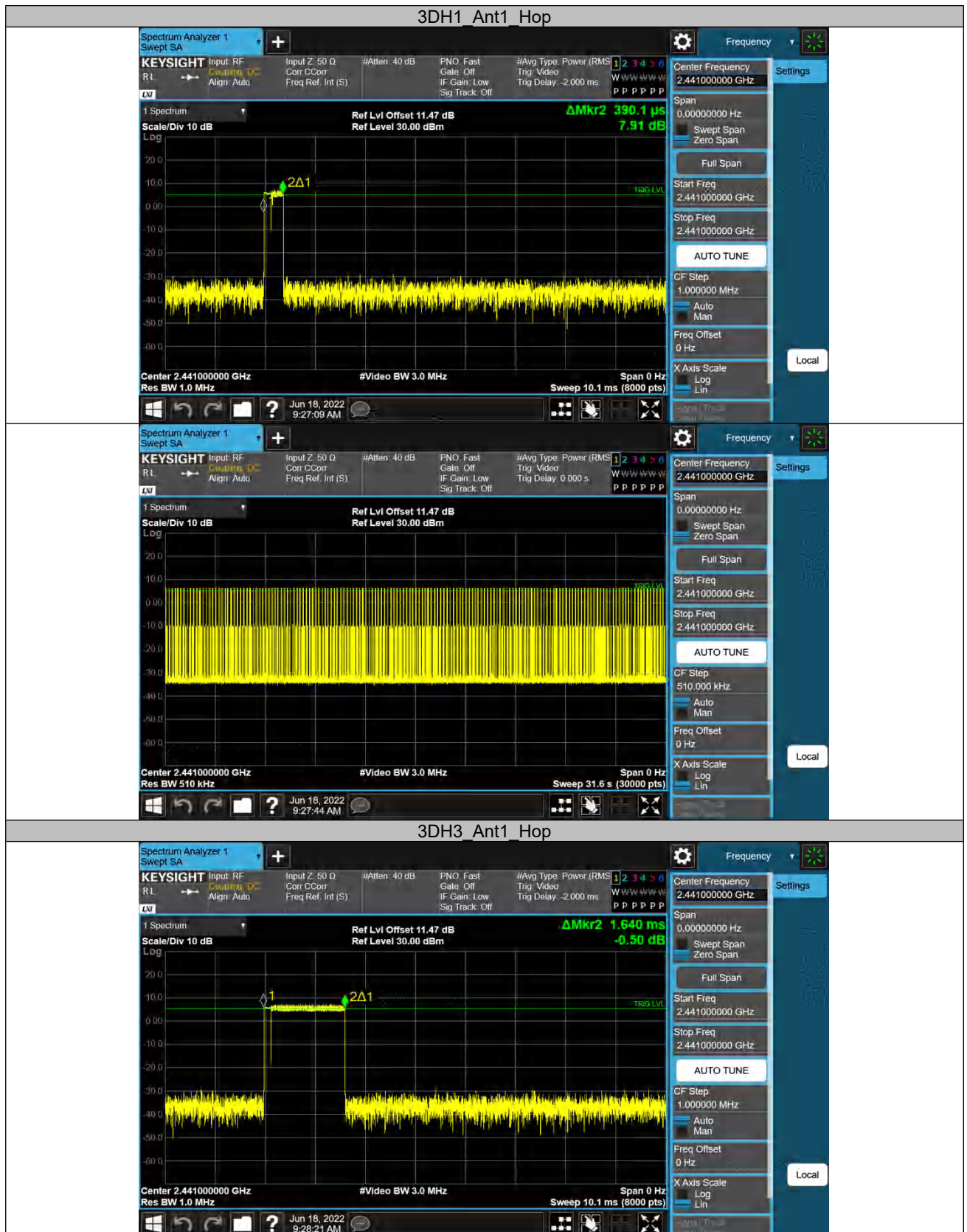
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.38	319	0.122	≤0.4	PASS
DH3	Ant1	Hop	1.64	161	0.263	≤0.4	PASS
DH5	Ant1	Hop	2.89	120	0.346	≤0.4	PASS
3DH1	Ant1	Hop	0.39	318	0.124	≤0.4	PASS
3DH3	Ant1	Hop	1.64	146	0.239	≤0.4	PASS
3DH5	Ant1	Hop	2.89	99	0.286	≤0.4	PASS

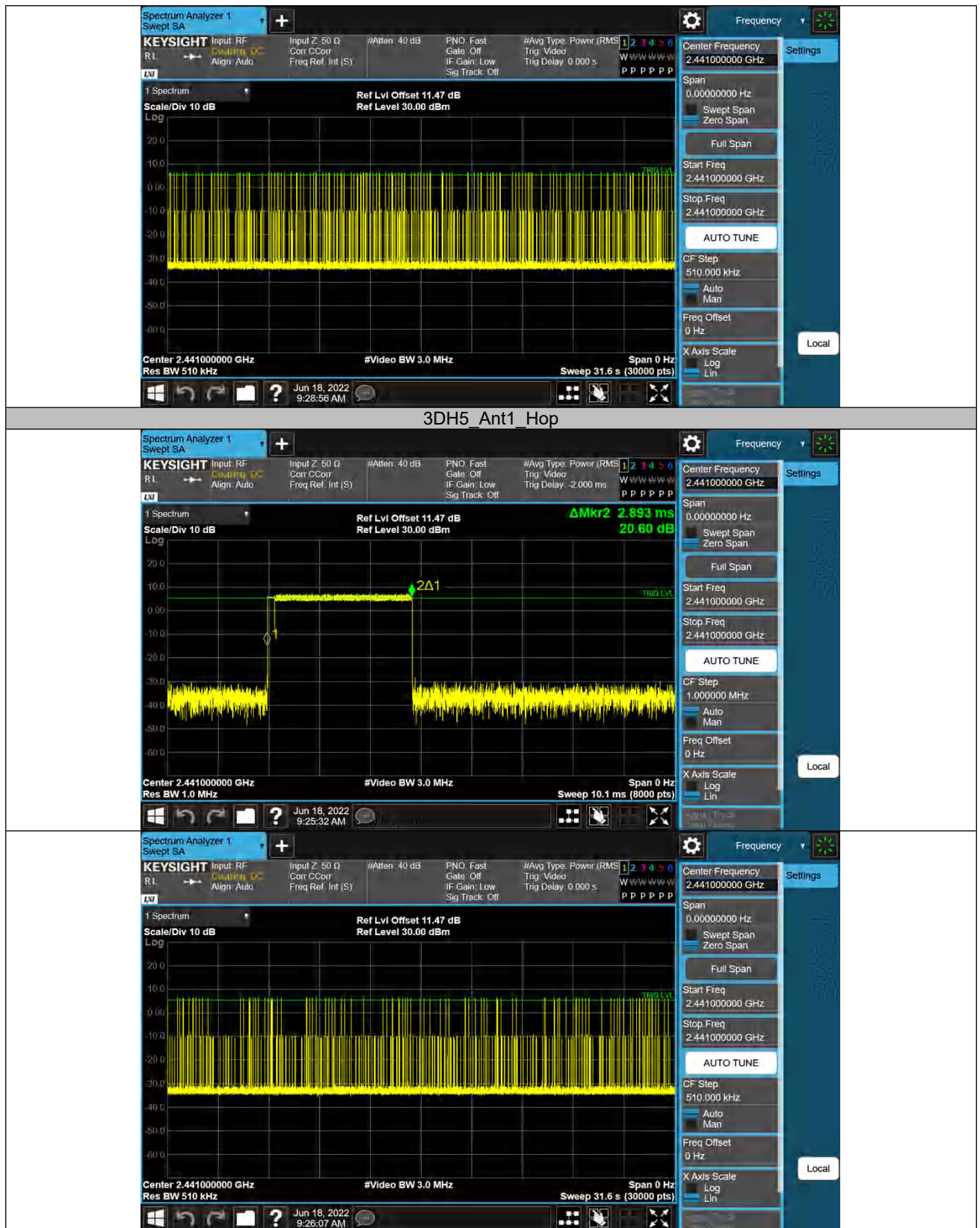




DH5_Ant1_Hop



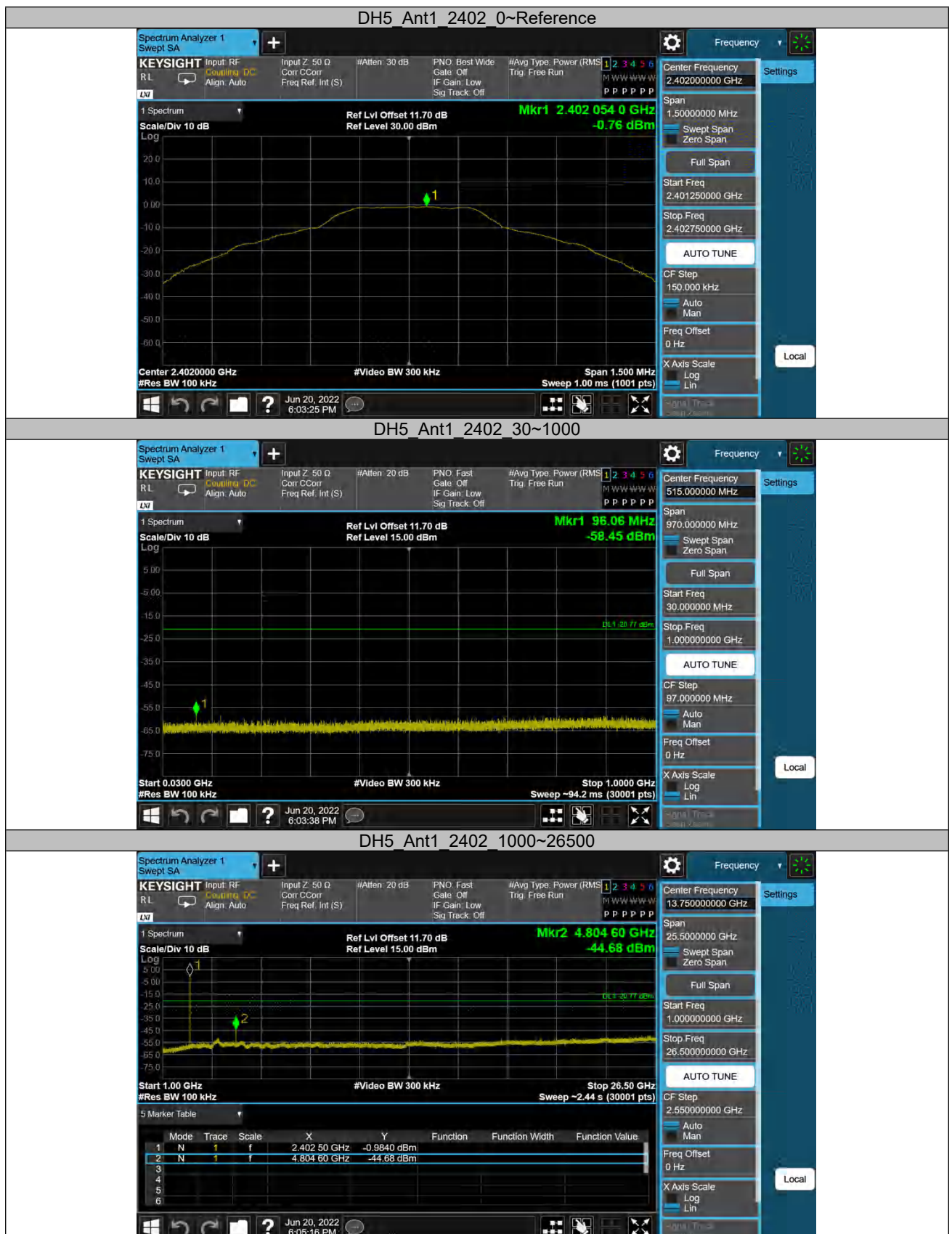


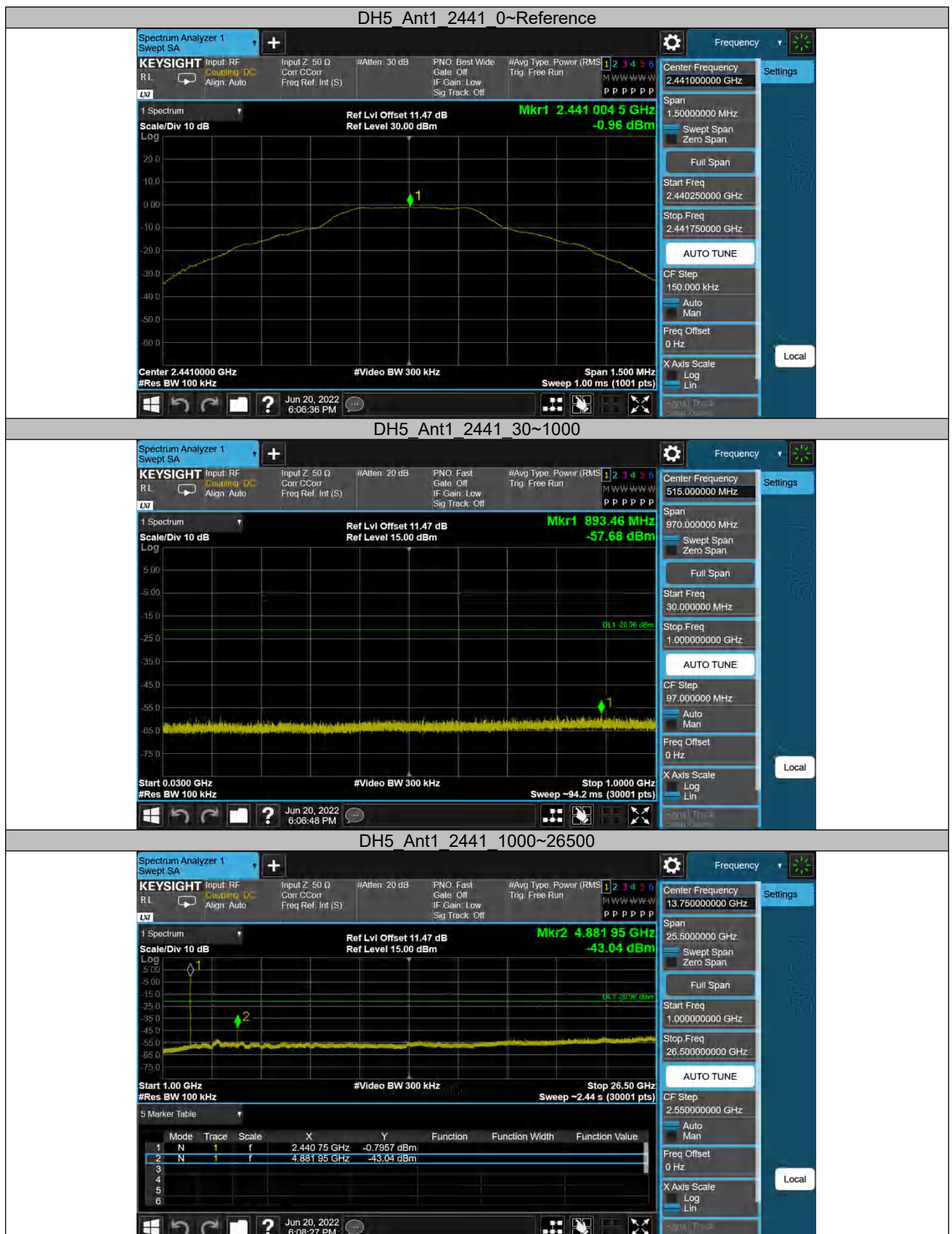


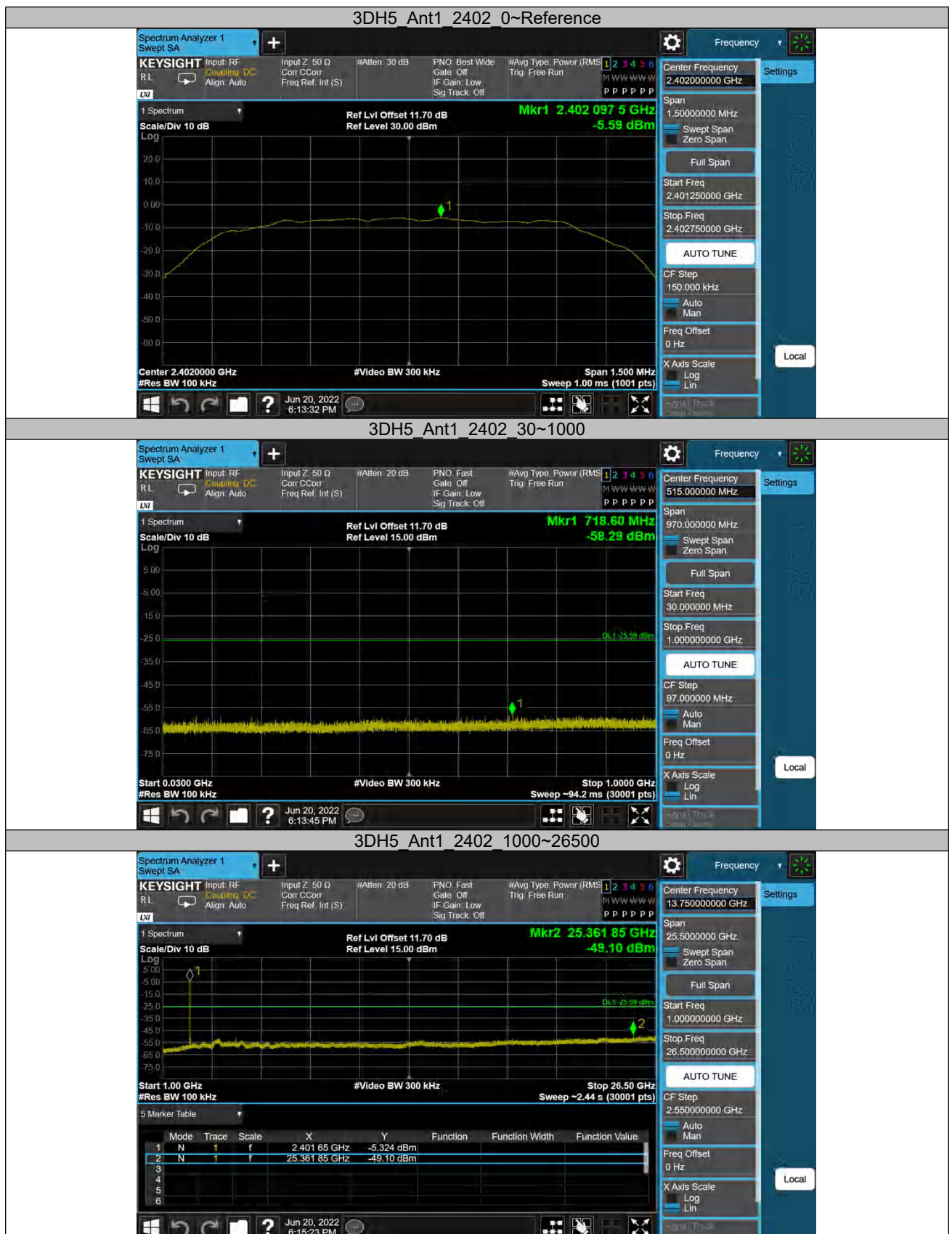
Appendix B.6: Test Results of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

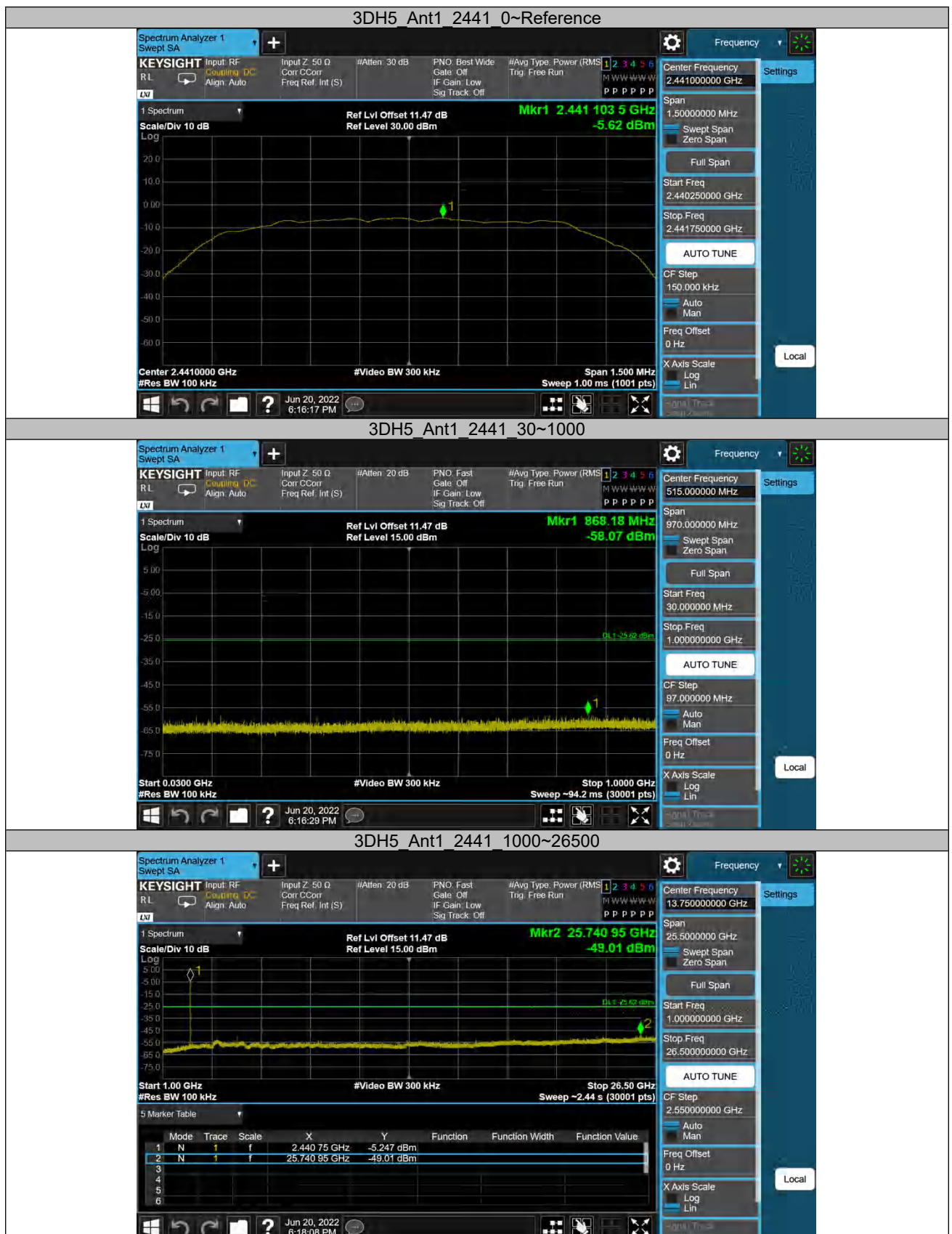
Conducted Spurious Emission

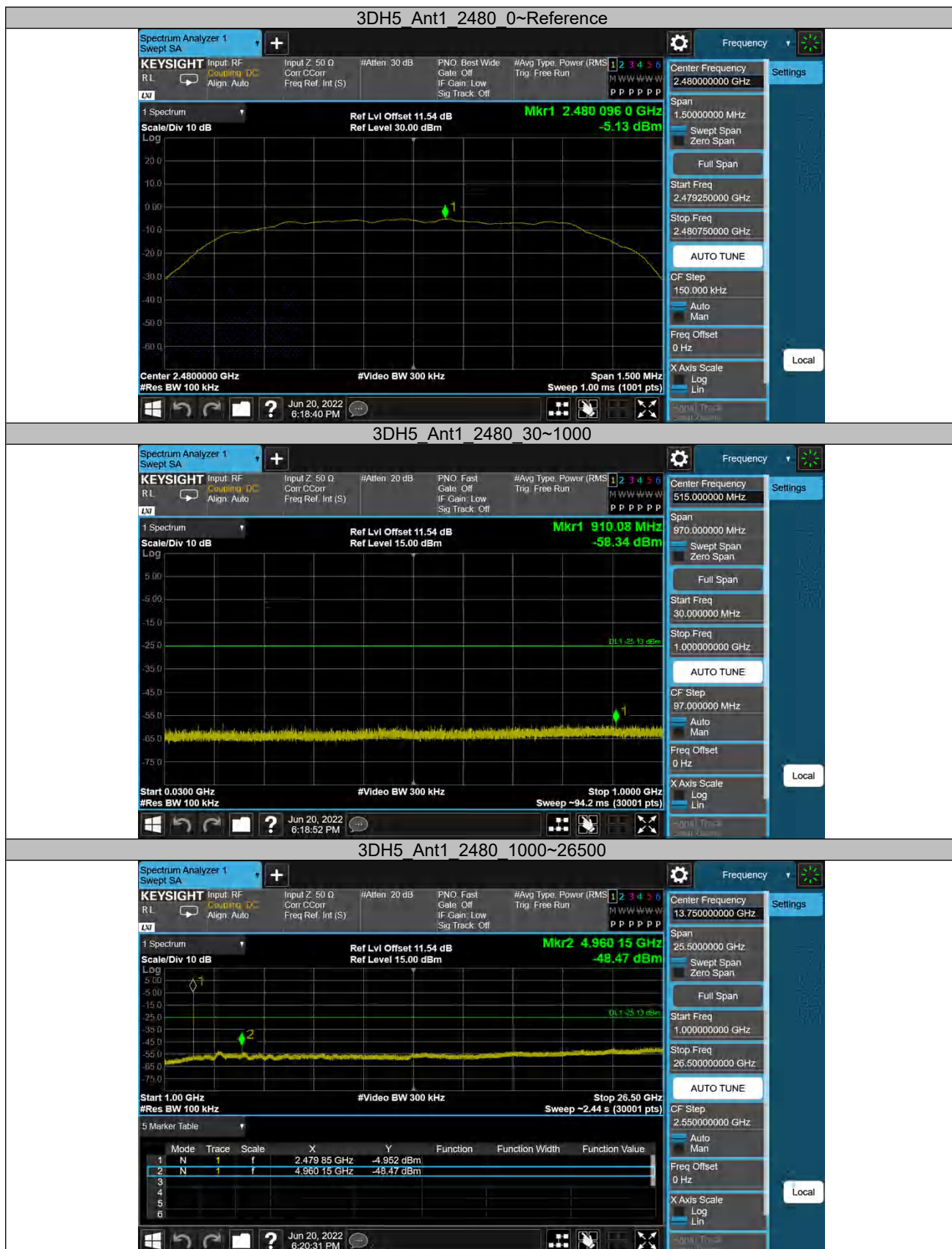
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	-0.77	-0.77	---	PASS
			30~1000	-0.77	-58.45	≤-20.77	PASS
			1000~26500	-0.77	-44.68	≤-20.77	PASS
		2441	Reference	-0.96	-0.96	---	PASS
			30~1000	-0.96	-57.68	≤-20.96	PASS
			1000~26500	-0.96	-43.04	≤-20.96	PASS
		2480	Reference	-0.48	-0.48	---	PASS
			30~1000	-0.48	-57.62	≤-20.48	PASS
			1000~26500	-0.48	-43.28	≤-20.48	PASS
3DH5	Ant1	2402	Reference	-5.59	-5.59	---	PASS
			30~1000	-5.59	-58.29	≤-25.59	PASS
			1000~26500	-5.59	-49.1	≤-25.59	PASS
		2441	Reference	-5.62	-5.62	---	PASS
			30~1000	-5.62	-58.07	≤-25.62	PASS
			1000~26500	-5.62	-49.01	≤-25.62	PASS
		2480	Reference	-5.13	-5.13	---	PASS
			30~1000	-5.13	-58.34	≤-25.13	PASS
			1000~26500	-5.13	-48.47	≤-25.13	PASS











Band Edge

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-0.36	-46.71	≤-20.36	PASS
		High	2480	-0.03	-46.53	≤-20.03	PASS
		Low	Hop_2402	-0.79	-46.64	≤-20.79	PASS
		High	Hop_2480	-0.01	-46.44	≤-20.01	PASS
3DH5	Ant1	Low	2402	-5.02	-46.5	≤-25.02	PASS
		High	2480	-4.58	-45.41	≤-24.58	PASS
		Low	Hop_2402	-5.61	-46.76	≤-25.61	PASS
		High	Hop_2480	-4.11	-45.88	≤-24.11	PASS

DH5_Ant1_Low_2402



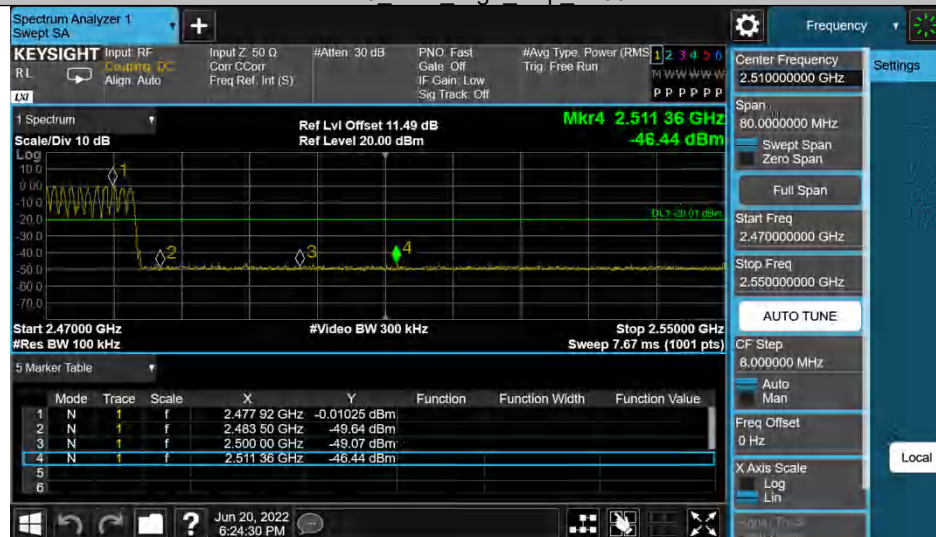
DH5_Ant1_High_2480



DH5_Ant1_Low_Hop_2402



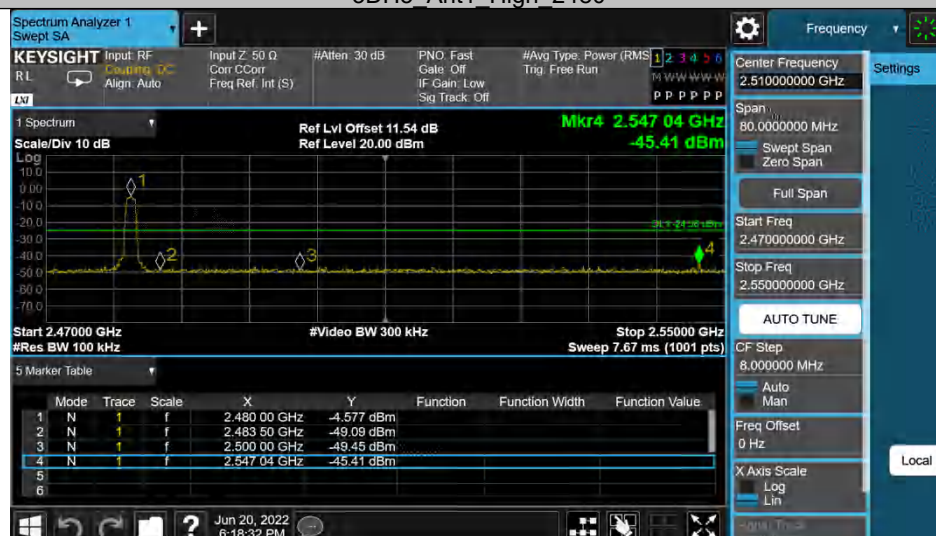
DH5 Ant1 High Hop 2480

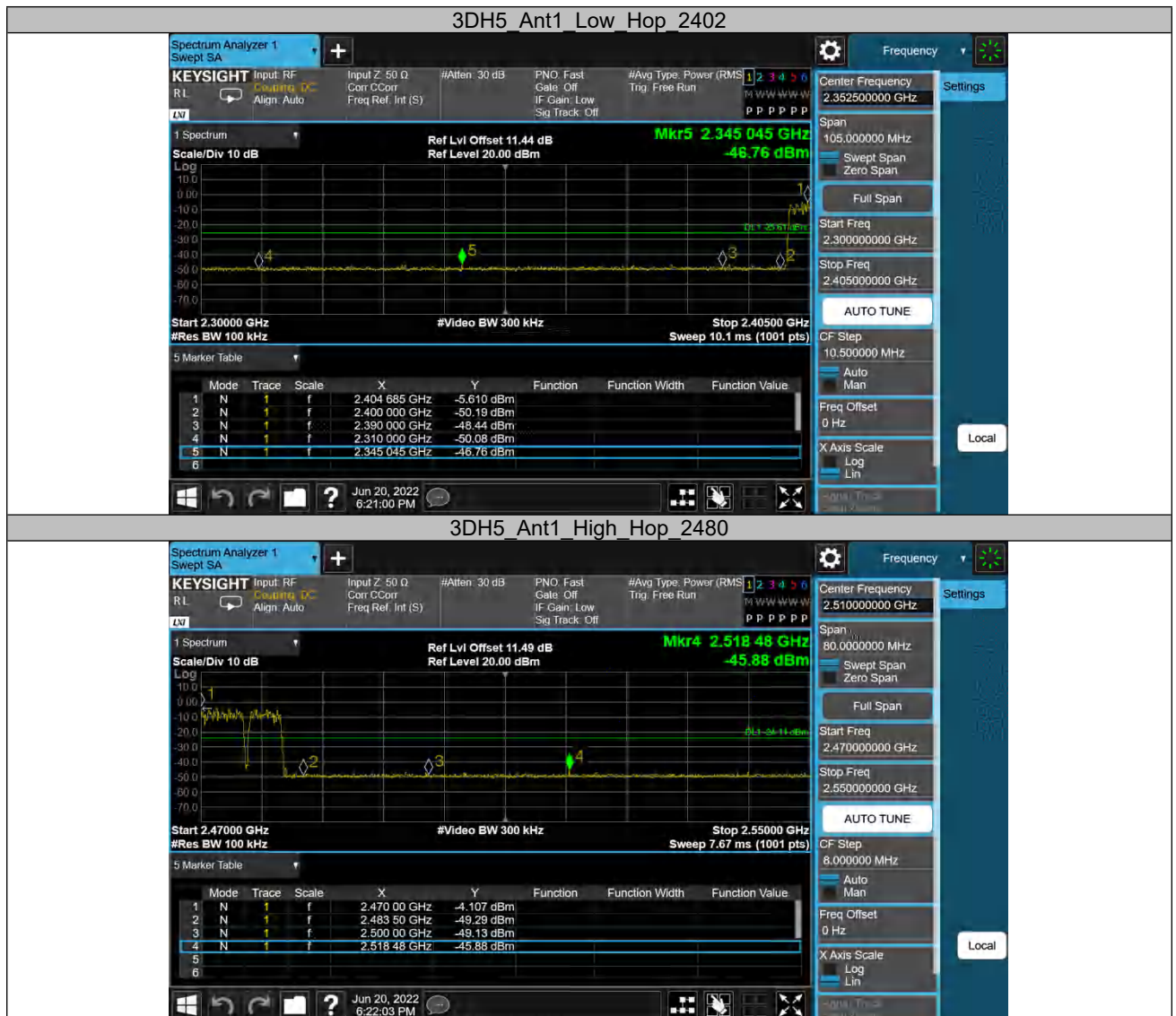


3DH5 Ant1 Low 2402



3DH5 Ant1 High 2480





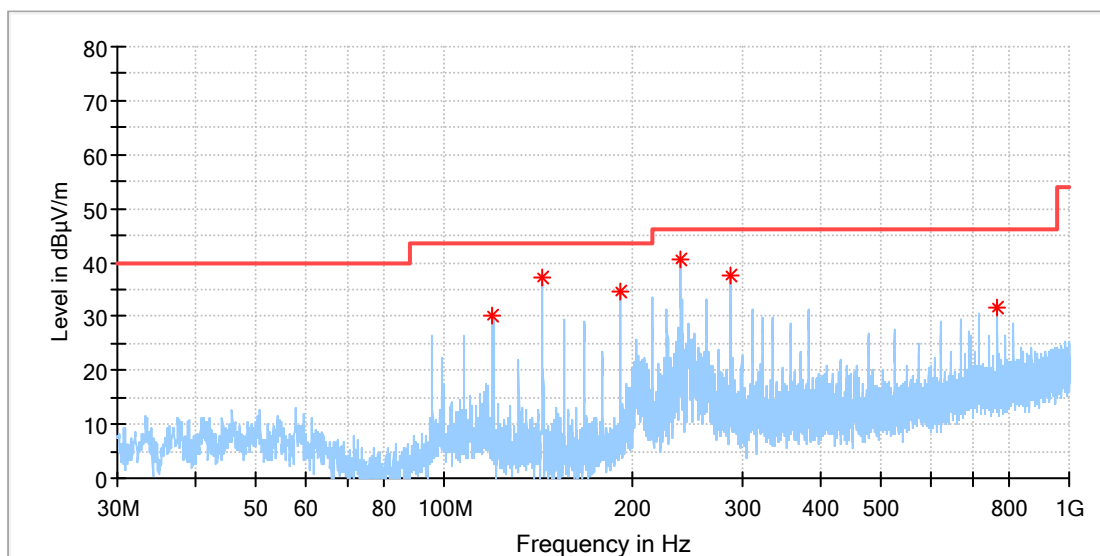
Appendix B.7: Test Results of Radiated Spurious Emissions

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 was presented in this report.

30MHz - 1GHz

EUT Information

EUT Name:	Moto Watch 200
Model:	MOSWZ200
Test Mode:	BR_DH5_Mid channel
Order No/Sample No:	168363827/A003281991-003
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

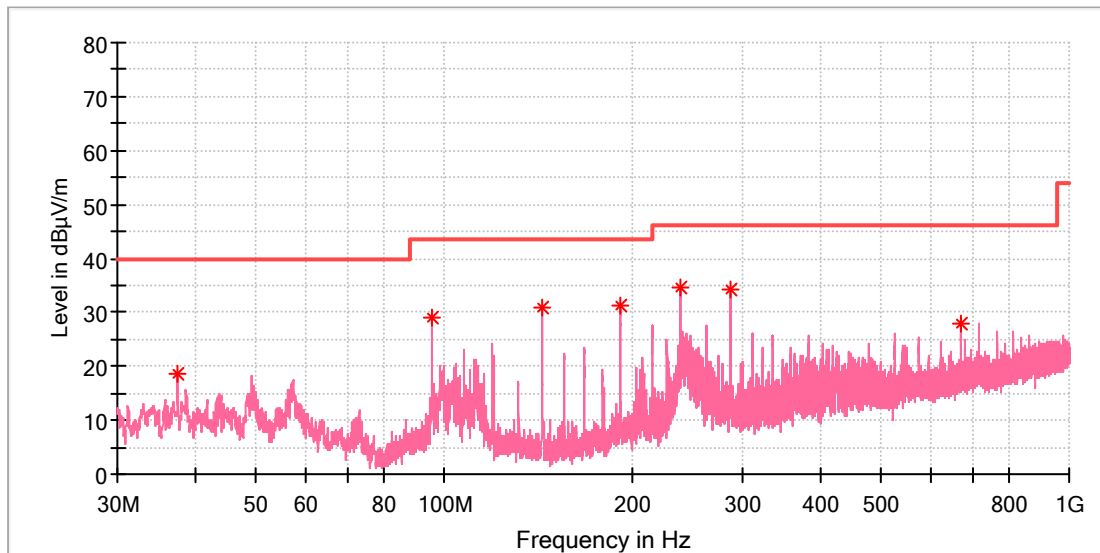


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
119.650385	30.08	43.50	13.42	100.0	H	315.0	-21.0
143.601923	37.36	43.50	6.14	100.0	H	315.0	-22.6
191.467692	34.50	43.50	9.00	100.0	H	315.0	-19.8
239.482692	40.39	46.00	5.61	100.0	H	0.0	-18.0
287.087308	37.66	46.00	8.34	100.0	H	0.0	-16.9
766.416539	31.49	46.00	14.51	100.0	H	315.0	-7.3

EUT Information

EUT Name: Moto Watch 200
Model: MOSWZ200
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168363827/A003281991-003
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



Critical Freqs

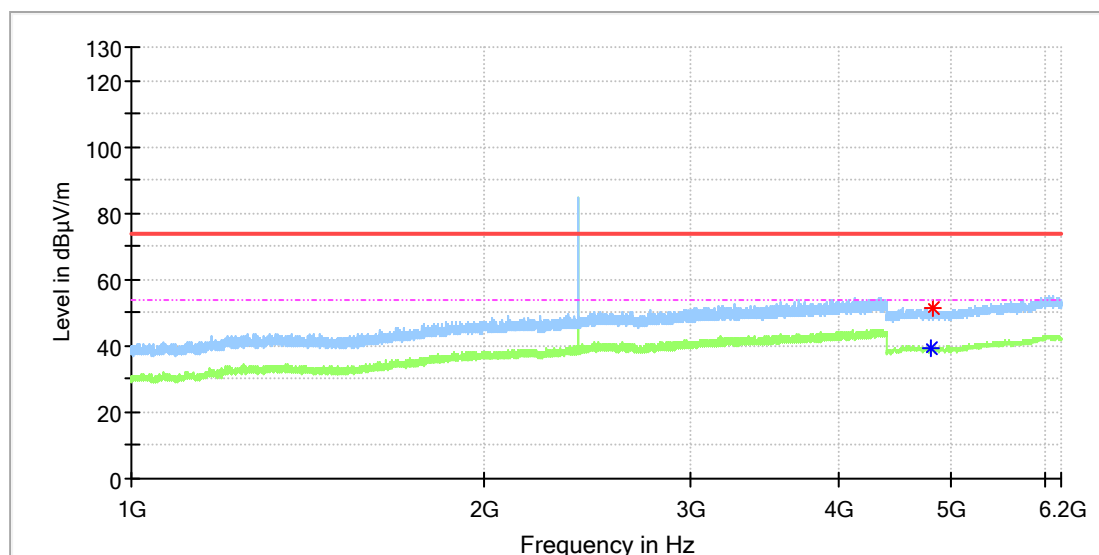
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
37.498846	18.59	40.00	21.41	100.0	V	3.0	-21.2
95.736154	28.87	43.50	14.63	100.0	V	206.0	-19.9
143.527308	31.06	43.50	12.44	100.0	V	0.0	-22.6
191.430385	31.09	43.50	12.41	100.0	V	338.0	-19.8
239.370769	34.70	46.00	11.30	100.0	V	290.0	-18.0
287.199231	34.15	46.00	11.85	100.0	V	164.0	-16.9
670.274615	27.80	46.00	18.20	100.0	V	355.0	-9.0

1GHz - 18GHz

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

EUT Information

EUT Name:	Moto Watch 200
Model:	MOSWZ200
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168363827/A003281991-003
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

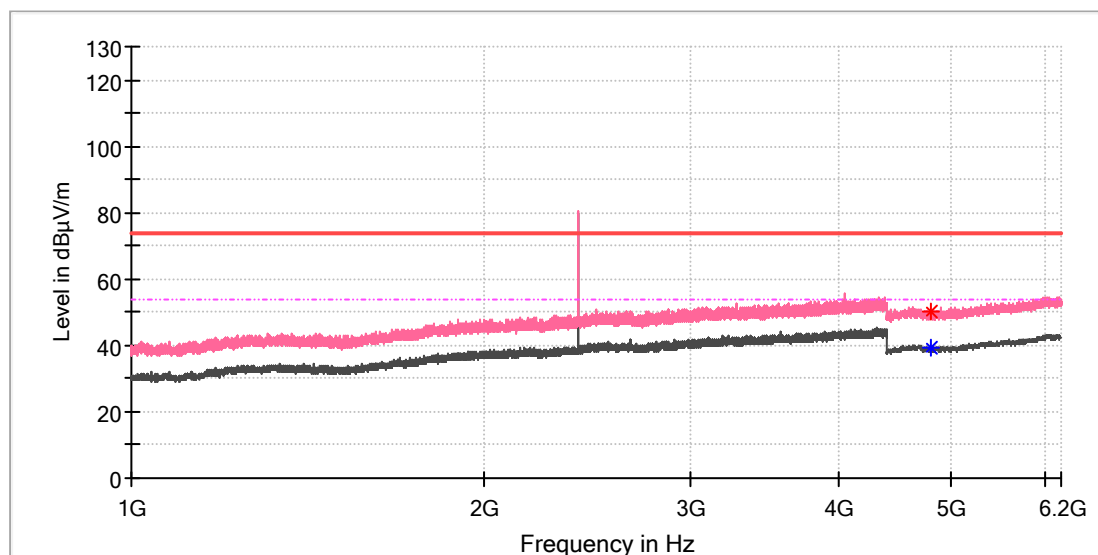


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4802.000000	---	39.51	54.00	14.49	100.0	H	329.0	11.8
4814.500000	51.32	---	74.00	22.68	100.0	H	352.0	11.8

EUT Information

EUT Name:	Moto Watch 200
Model:	MOSWZ200
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168363827/A003281991-003
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

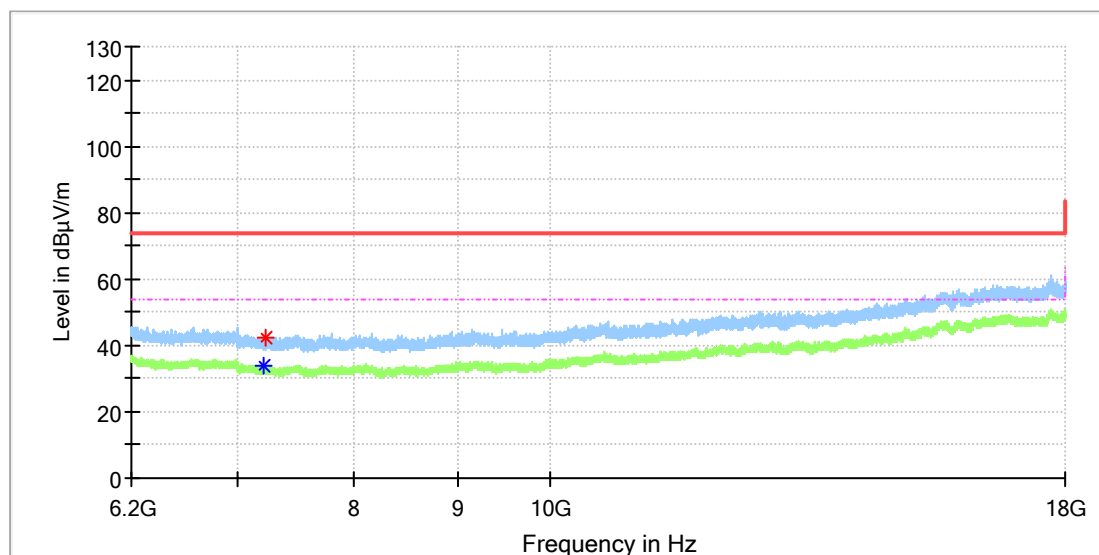


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4803.500000	50.11	---	74.00	23.89	100.0	V	231.0	11.8
4803.500000	---	39.36	54.00	14.64	100.0	V	231.0	11.8

EUT Information

EUT Name:	Moto Watch 200
Model:	MOSWZ200
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168363827/A003281991-003
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

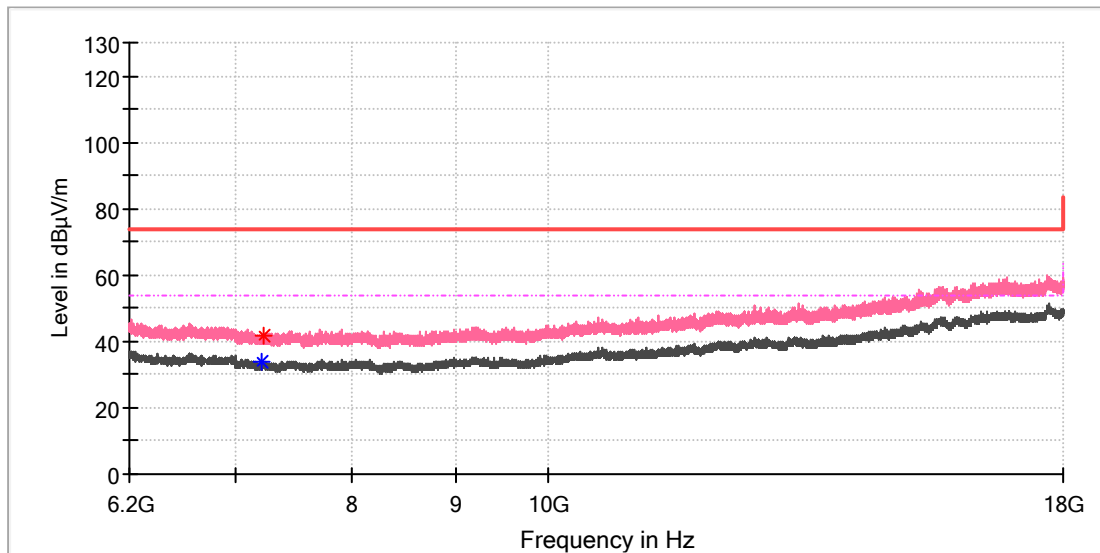


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.458333	---	34.04	54.00	19.96	100.0	H	239.0	8.8
7222.175000	42.53	---	74.00	31.47	100.0	H	354.0	8.7

EUT Information

EUT Name:	Moto Watch 200
Model:	MOSWZ200
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168363827/A003281991-003
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

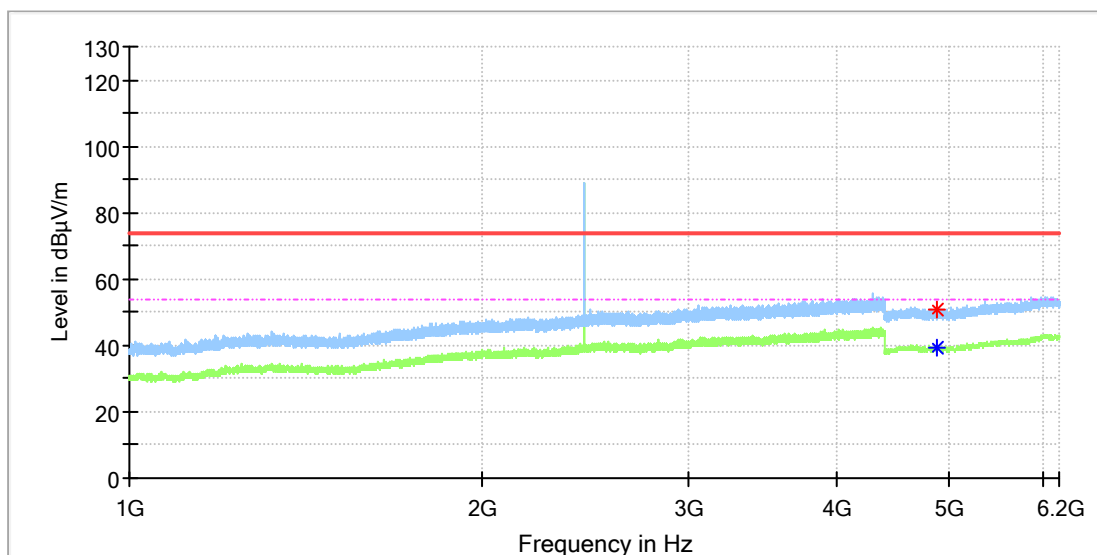


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7205.950000	---	33.60	54.00	20.40	100.0	V	287.0	8.8
7221.191667	41.83	---	74.00	32.17	100.0	V	121.0	8.7

EUT Information

EUT Name: Moto Watch 200
Model: MOSWZ200
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168363827/A003281991-003
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

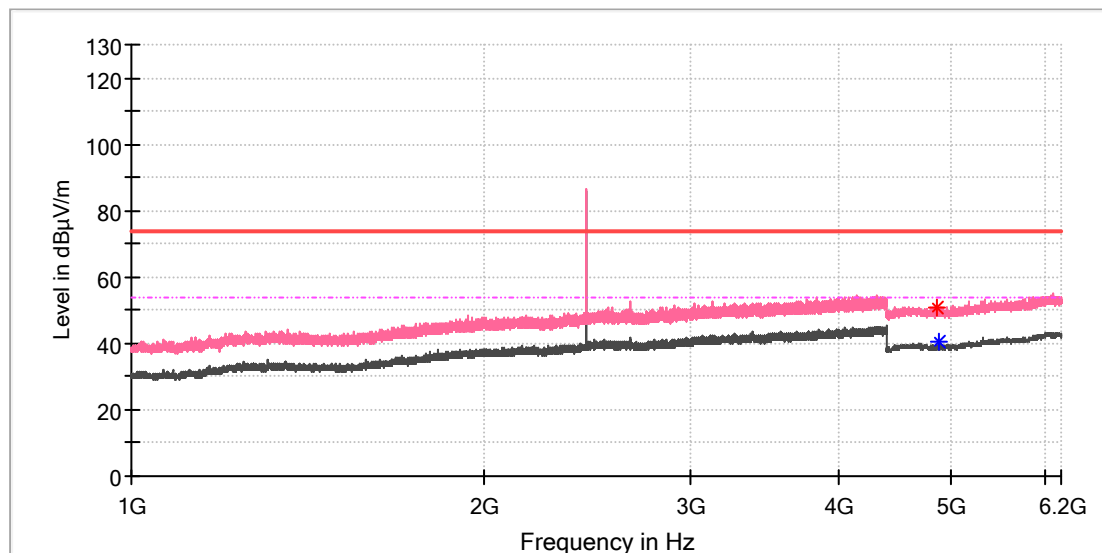


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4870.500000	50.62	---	74.00	23.38	100.0	H	302.0	11.8
4870.500000	---	39.20	54.00	14.80	100.0	H	302.0	11.8

EUT Information

EUT Name: Moto Watch 200
Model: MOSWZ200
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168363827/A003281991-003
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

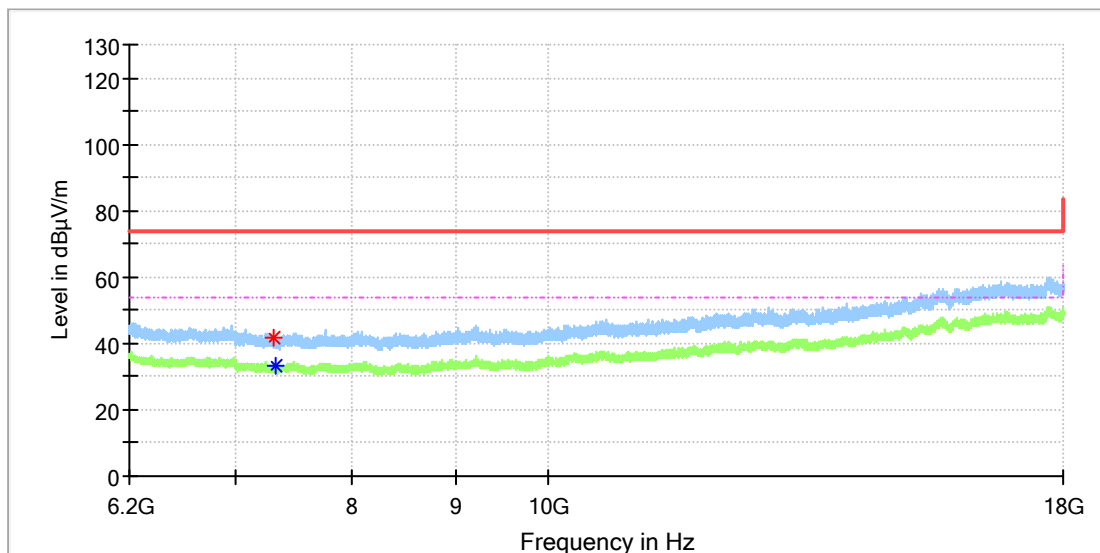


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4866.500000	50.67	---	74.00	23.33	100.0	V	43.0	11.8
4882.000000	---	40.27	54.00	13.73	100.0	V	43.0	11.8

EUT Information

EUT Name: Moto Watch 200
Model: MOSWZ200
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168363827/A003281991-003
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

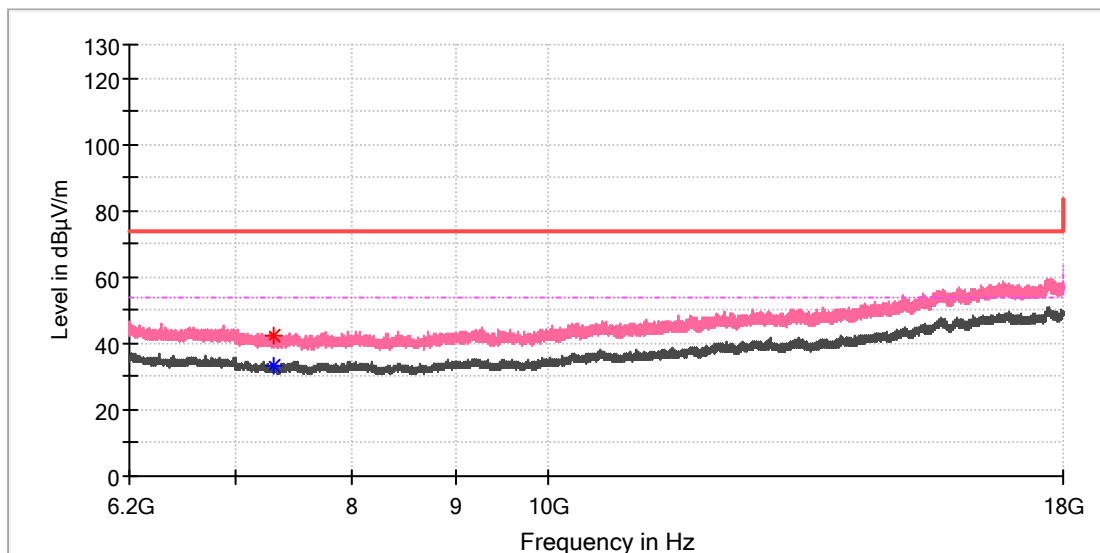


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7303.300000	41.78	---	74.00	32.22	100.0	H	134.0	8.3
7328.866667	---	33.38	54.00	20.62	100.0	H	183.0	8.1

EUT Information

EUT Name: Moto Watch 200
Model: MOSWZ200
Test Mode: BR_DH5_Mid channel
Order No/Sample No: 168363827/A003281991-003
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

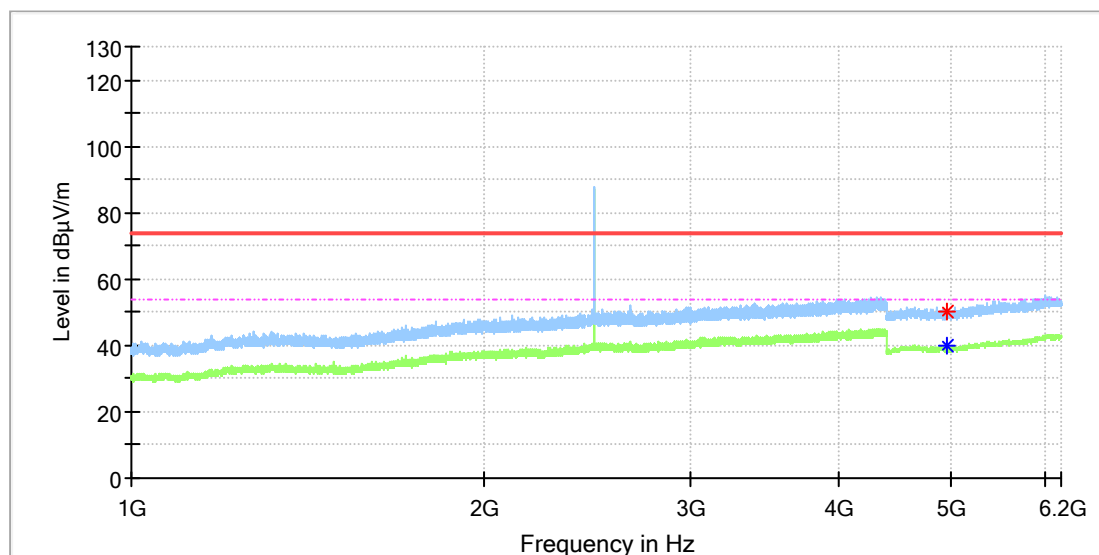


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7314.116667	---	33.52	54.00	20.48	100.0	V	186.0	8.2
7316.083333	42.33	---	74.00	31.67	100.0	V	186.0	8.2

EUT Information

EUT Name: Moto Watch 200
Model: MOSWZ200
Test Mode: BR_DH5_High channel
Order No/Sample No: 168363827/A003281991-003
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

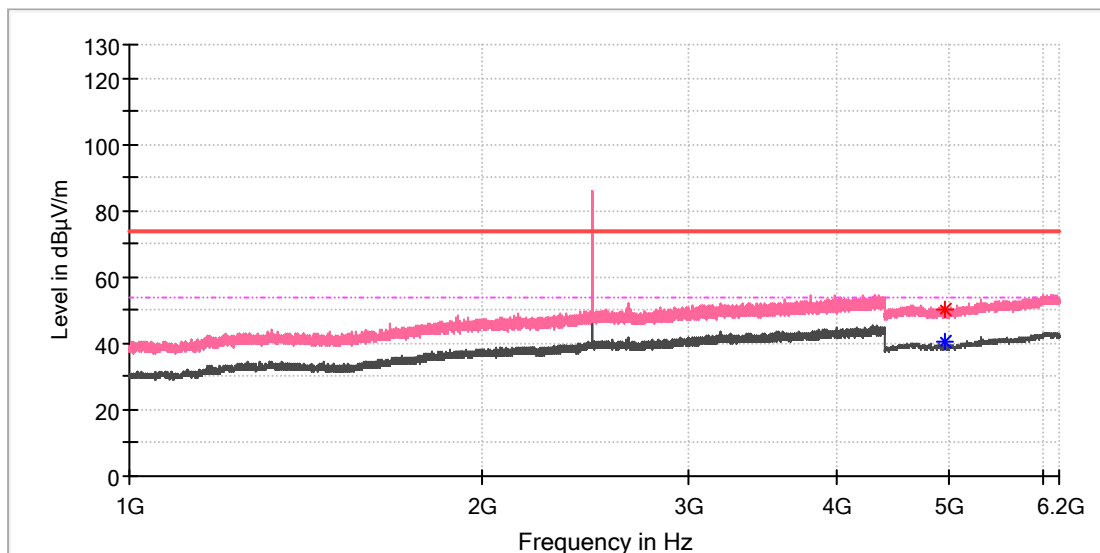


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4956.500000	50.44	---	74.00	23.56	100.0	H	334.0	11.8
4960.000000	---	40.00	54.00	14.00	100.0	H	348.0	11.8

EUT Information

EUT Name: Moto Watch 200
Model: MOSWZ200
Test Mode: BR_DH5_High channel
Order No/Sample No: 168363827/A003281991-003
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin

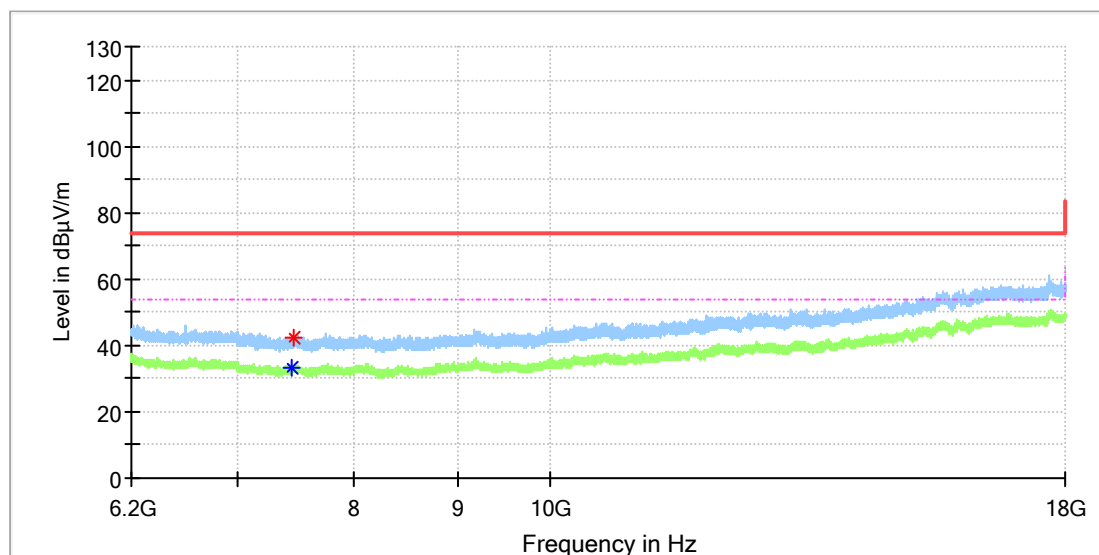


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
4956.500000	50.38	---	74.00	23.62	100.0	V	266.0	11.8
4960.000000	---	40.40	54.00	13.60	100.0	V	17.0	11.8

EUT Information

EUT Name:	Moto Watch 200
Model:	MOSWZ200
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168363827/A003281991-003
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

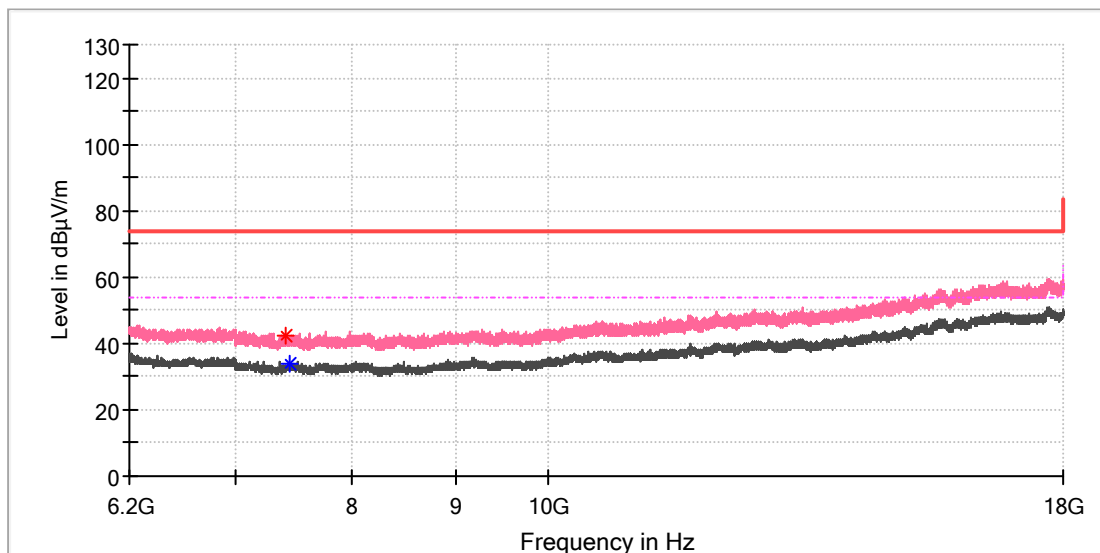


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7446.866667	---	33.49	54.00	20.51	100.0	H	145.0	8.5
7463.583333	42.55	---	74.00	31.45	100.0	H	61.0	8.6

EUT Information

EUT Name: Moto Watch 200
Model: MOSWZ200
Test Mode: BR_DH5_High channel
Order No/Sample No: 168363827/A003281991-003
Test Voltage: DC 5V From USB
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.247
Tested By: Kei Zhang
Reviewed By: Terry Yin



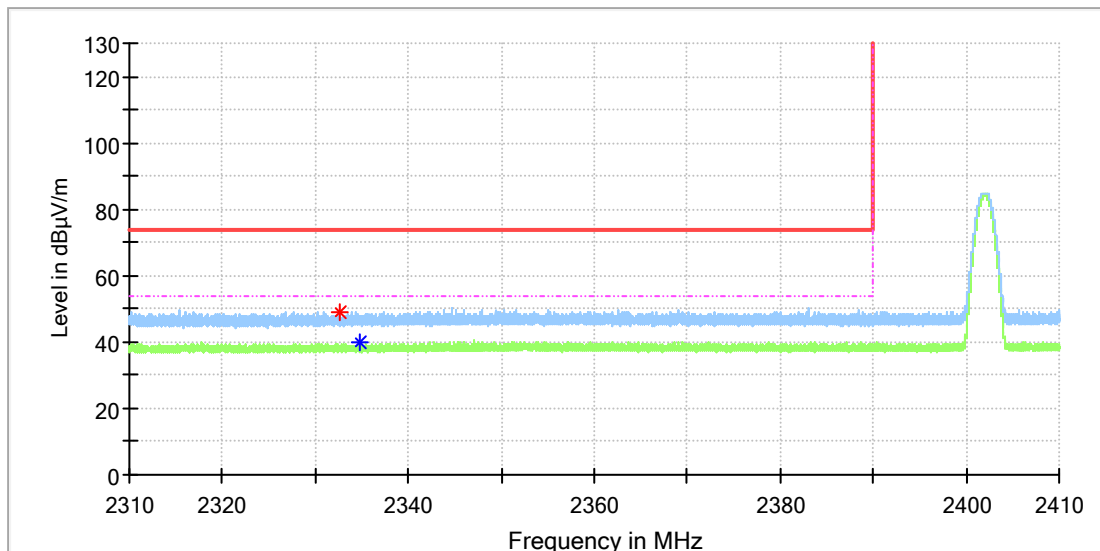
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
7405.075000	42.59	---	74.00	31.41	100.0	V	0.0	8.3
7442.933333	---	33.81	54.00	20.19	100.0	V	294.0	8.4

Appendix B.8: Test Results of Radiated Emissions in Restricted Bands

EUT Information

EUT Name:	Moto Watch 200
Model:	MOSWZ200
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168363827/A003281991-003
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

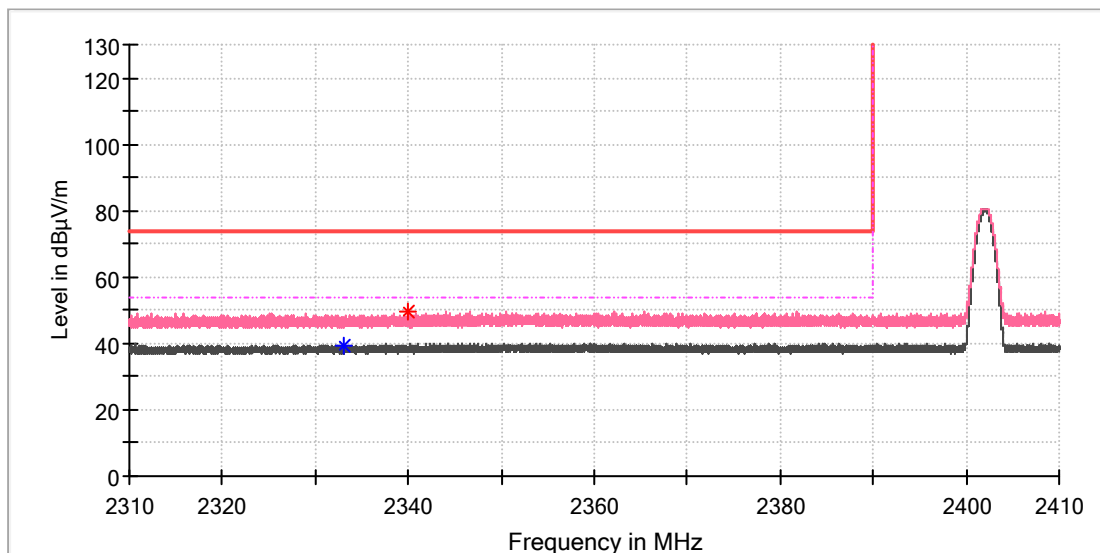


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2332.545000	48.88	---	74.00	25.12	100.0	H	61.0	6.7
2334.745000	---	39.69	54.00	14.31	100.0	H	74.0	6.8

EUT Information

EUT Name:	Moto Watch 200
Model:	MOSWZ200
Test Mode:	BR_DH5_Low channel
Order No/Sample No:	168363827/A003281991-003
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

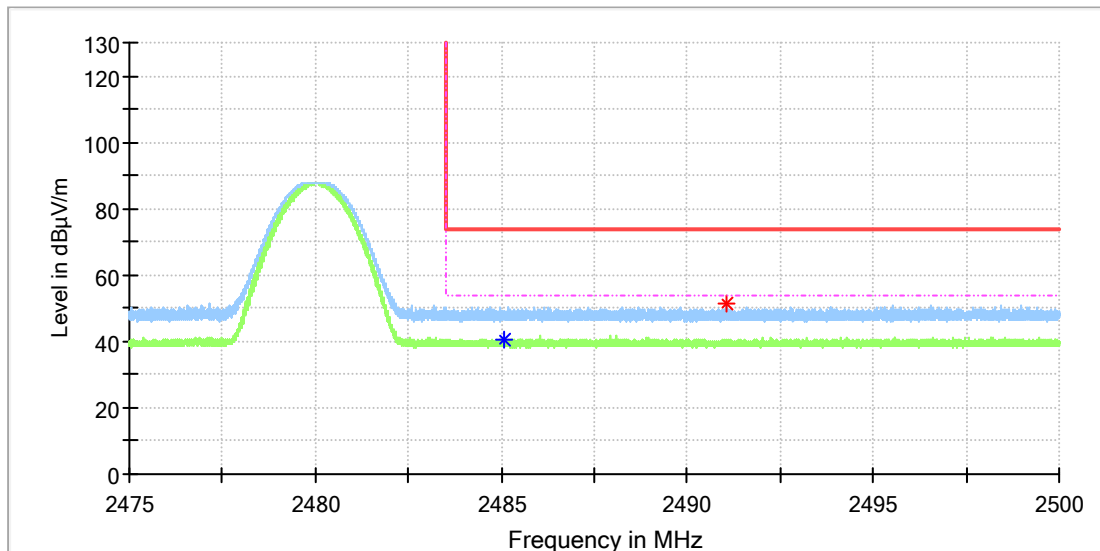


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2332.985000	---	39.48	54.00	14.52	100.0	V	313.0	6.7
2339.945000	49.57	---	74.00	24.43	100.0	V	325.0	6.8

EUT Information

EUT Name:	Moto Watch 200
Model:	MOSWZ200
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168363827/A003281991-003
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin

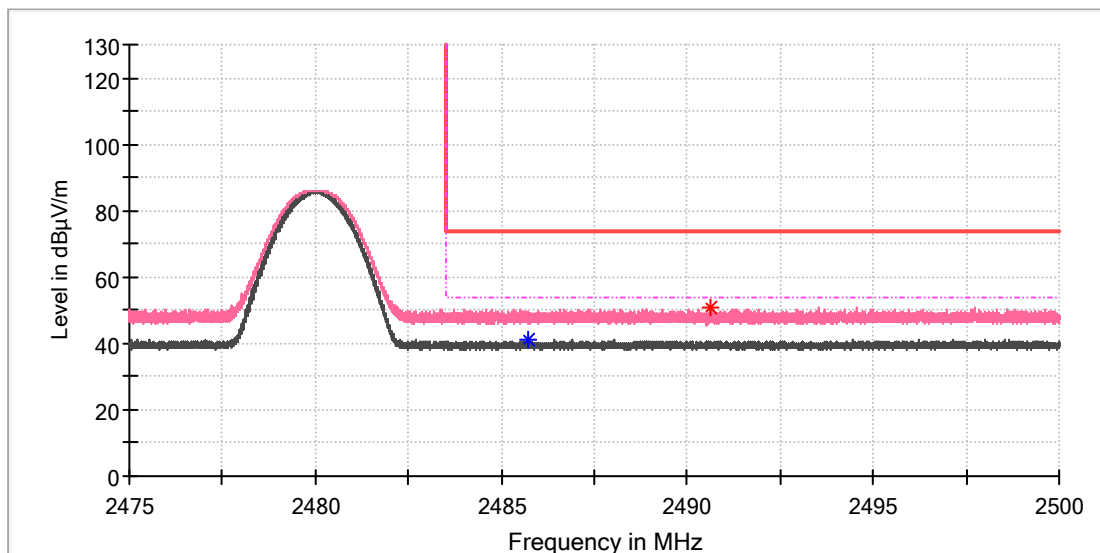


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.093750	---	40.70	54.00	13.30	100.0	H	121.0	7.4
2491.043750	51.15	---	74.00	22.85	100.0	H	239.0	7.4

EUT Information

EUT Name:	Moto Watch 200
Model:	MOSWZ200
Test Mode:	BR_DH5_High channel
Order No/Sample No:	168363827/A003281991-003
Test Voltage:	DC 5V From USB
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.247
Tested By:	Kei Zhang
Reviewed By:	Terry Yin



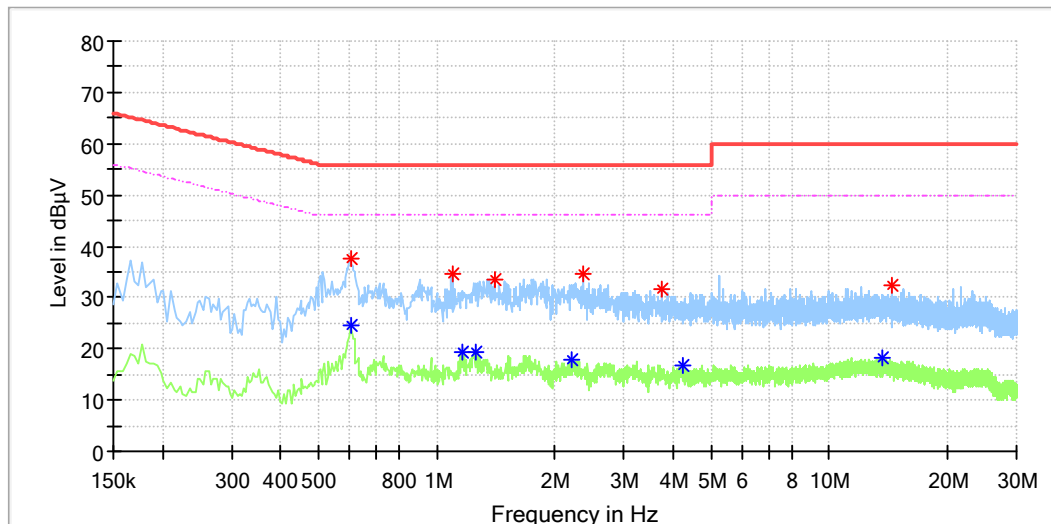
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2485.716250	---	40.85	54.00	13.15	100.0	V	324.0	7.4
2490.637500	50.82	---	74.00	23.18	100.0	V	263.0	7.4

Appendix B.9: Test Results of Conducted Emission

EUT Information

EUT Name: Moto Watch 200
Order No: 168363827_P00635443
Model: MOSWZ200
Test mode: Charging with normal operating
Test Voltage: AC 120V/60Hz
Test By:/Review By: Ouyang Wang/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 24.1°C/52.6%/101kPa
Remark: SR2

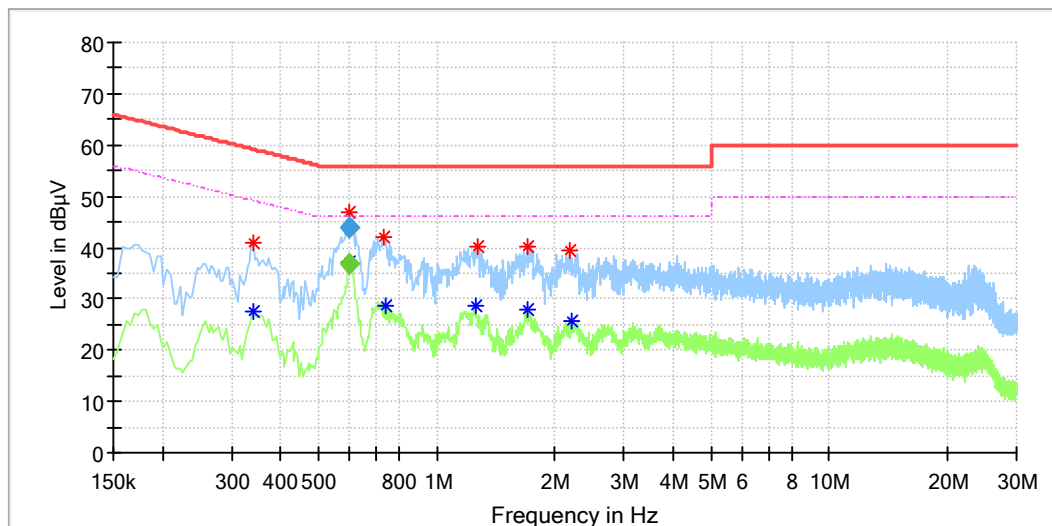


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV)	Average (dBμV)	Limit (dBμV)	Margin (dB)	Line	Corr. (dB)
0.602000	37.65	---	56.00	18.35	L1	10.0
0.602000	---	24.71	46.00	21.29	L1	10.0
1.098000	34.45	---	56.00	21.55	L1	10.0
1.162000	---	19.24	46.00	26.76	L1	10.1
1.262000	---	19.42	46.00	26.58	L1	10.1
1.402000	33.65	---	56.00	22.35	L1	10.1
2.202000	---	18.00	46.00	28.00	L1	10.2
2.366000	34.61	---	56.00	21.39	L1	10.2
3.746000	31.47	---	56.00	24.53	L1	10.2
4.218000	---	16.86	46.00	29.14	L1	10.2
13.602000	---	18.08	50.00	31.92	L1	10.4
14.498000	32.48	---	60.00	27.52	L1	10.4

EUT Information

EUT Name: Moto Watch 200
Order No: 168363827_P00635443
Model: MOSWZ200
Test mode: Charging with normal operating
Test Voltage: AC 120V/60Hz
Test By:/Review By: Ouyang Wang/Gary Chen
Test Standard: FCC part 15
Tem./Hum./Pressure: 24.1°C/52.6%//101kPa
Remark: SR2



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Line	Corr. (dB)
0.342000	---	27.58	49.16	21.58	N	9.8
0.342000	40.84	---	59.16	18.32	N	9.8
0.601500	46.84	---	56.00	9.16	N	9.8
0.601500	---	37.14	46.00	8.86	N	9.8
0.730000	42.11	---	56.00	13.89	N	9.8
0.738000	---	28.64	46.00	17.36	N	9.8
1.258000	---	28.65	46.00	17.35	N	9.8
1.278000	40.23	---	56.00	15.77	N	9.8
1.694000	40.01	---	56.00	15.99	N	9.8
1.702000	---	27.99	46.00	18.01	N	9.8
2.186000	39.42	---	56.00	16.58	N	9.9
2.198000	---	25.81	46.00	20.19	N	9.9

Final_Result

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	Corr. (dB)
0.601500	---	36.94	46.00	9.06	3000.0	9.000	N	9.8
0.601500	43.98	---	56.00	12.02	3000.0	9.000	N	9.8