Prüfbericht-Nr.: *Test report no.:*	**CN247569 001**	**Auftrags-Nr.:** *Order no.:*	170386300	Seite 1 von 24 *Page 1 of 24*
Kunden-Referenz-Nr.: *Client reference no.:*	--	**Auftragsdatum:** *Order date:*	2024-08-19	
Auftraggeber: *Client:*	Allstar Products Group 2 SKYLINE DRIVE HAWTHRONE NEW YORK #10532 USA			
Prüfgegenstand: *Test item:*	SWFT eScooter			
Bezeichnung / Typ-Nr.: *Identification / Type no.:*	SWFT-SD14-BLK, SWFT-XPRP-BLK			
Auftrags-Inhalt: *Order content:*	Test Report			
Prüfgrundlage: *Test specification:*	CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 3 August 2023 RSS-Gen Issue 5 February 2021			
Wareneingangsdatum: *Date of sample receipt:*	2024-08-19	Please refer to photo documents		
Prüfmuster-Nr.: *Test sample no:*	A003807316			
Prüfzeitraum: *Testing period:*	Refer to test report			
Ort der Prüfung: *Place of testing:*	TÜV Rheinland (Guangdong) Ltd.			
Prüflaboratorium: *Testing laboratory:*	TÜV Rheinland (Guangdong) Ltd.			
Prüfergebnis*: *Test result*:*	Pass			

geprüft von: tested by:	Webb Luo Signed by: Webb Luo	**genehmigt von:** *authorized by:*	Amy Wang Signed by: Amy Wang
Datum: *Date:* 2024-11-29		**Ausstellungsdatum:** *Issue date:* 2024-12-30	
Stellung / Position:	Project Engineer	**Stellung** / Position:	Authorizer

Sonstiges / *Other:*
This report is for 2.4GHz BT evaluated.
FCC ID:2APZ3SD, IC:4238A-SD (for model SWFT-SD14-BLK)
FCC ID:2APZ3XPRP, IC:4238A-XPRP (for model SWFT-XPRP-BLK)
HVIN: SWFT-SD14-BLK, SWFT-XPRP-BLK, PMN: SWFT eScooter

Zustand des Prüfgegenstandes bei Anlieferung: Prüfmuster vollständig und unbeschädigt
Condition of the test item at delivery: *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

Anmerkungen
Remarks

1	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. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. *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.*
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3	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. *Test clauses with remark of * are subcontracted to qualified subcontractors and descripted 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.*
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnisen 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 bezueglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. *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.*

Test Summary

5.1.1 ANTENNA REQUIREMENT
RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER
RESULT: Pass

5.1.3 99% BANDWIDTH
RESULT: Pass

5.1.4 20DB BANDWIDTH
RESULT: Pass

5.1.5 CARRIER FREQUENCY SEPARATION
RESULT: Pass

5.1.6 NUMBER OF HOPPING FREQUENCY
RESULT: Pass

5.1.7 TIME OF OCCUPANCY
RESULT: Pass

5.1.8 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHZ BANDWIDTH
RESULT: Pass

5.1.9 RADIATED SPURIOUS EMISSION
RESULT: Pass

5.1.10 CONDUCTED EMISSION ON AC MAINS
RESULT: N/A

Contents

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 Bluetooth BR & EDR mode

Appendix B: Test Results of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory.
1&2/F, Building B, No.767 Tianyuan Road, Tianhe District, Guangzhou, Guangdong, China

A2LA Cert. No.: 4302.01

FCC Accreditation Designation No.: 234821

ISED wireless device testing laboratory: 2932C

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**
Spectrum Analyzer	FSP30	Rohde & Schwarz	100286	2025-12-03
Signal Generator	SMB100A	Rohde & Schwarz	115613	2025-03-04
Climatic Chamber	EL-04KA	GZ-ESPEC	6107116	2025-03-04
Attenuator	3.5TS2-6dB-26.5G	SHX	12042001	2025-02-28
Combiner/Divider	1515	Weinschel	PG325	2025-02-28
RF Control Unit	JS0806-2	Tonscend Technology	N/A	2025-03-22
Unwanted Emission Testing				
Equipment	**Manufacturer**	**Model**	**Serial No.**	**Cal. until**
EMI Test Receiver	ESW 8	Rohde & Schwarz	101312	2025-11-16
Trilog-Broadband Antenna	VULB9168 (30MHz-1GHz)	SCHWARZBECK MESSELEKTRONIK	684	2025-08-28
Double-Ridged Waveguide Horn Antenna	HF907 (1-18GHz)	Rohde & Schwarz	100377	2026-03-07

Pre-amplifier	TAP01018050	Tonscend Technology	AP23L8060327	2025-01-02
Band Reject Filter	BRM50702	Micro-Tronics	023	2026-07-11
Standard Gain Horn Antenna	3160-09 (18-26.5GHz)	EMCO	21642	2025-01-16
Pre-amplifier	AFS33-18002650-30-8P-44	MITEQ	1108282	2025-08-01
Loop Antenna	HFH2-Z2 (<30MHz)	Rohde & Schwarz	100111	2025-06-12
EMI Test Receiver	ESW 8	Rohde & Schwarz	101312	2024-11-16
EMC32 test software	R&S	EMC32(Ver.10.50.00)	N/A	N/A
Conducted Emission				
Equipment	**Manufacturer**	**Model No.**	**Serial No.**	**Cal. Until**
Spectrum Analyzer	FSP30	Rohde & Schwarz	100286	2025-12-03
Power Meter	NRX	Rohde & Schwarz	100863	2025-03-04
Average Power Sensor	NRP6A	Rohde & Schwarz	106142	2025-03-04
RF Control Unit	JS0806-2	Tonscend Technology	N/A	2025-03-22
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 basics 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.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 1.15 dB
Occupied Channel Bandwidth	± 1.38 %
RF power density, conducted	± 1.15 dB
Unwanted Emissions, conducted	± 1.15 dB
All emissions, radiated(below 1GHz)	±5.34 dB
All emissions, radiated(1~6 GHz)	±4.56 dB
All emissions, radiated(6~18 GHz)	±4.60 dB
Conducted Emission, (9kHz to 150kHz)/(150kHz to 30MHz)	± 2.16 dB / ± 1.98 dB

2.6 Location of Original Data

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

2.7 Status of Facility Used for Testing

TÜV Rheinland (Guangdong) Ltd. EMC Laboratory. Test facility located at 1&2/F, Building B, No.767 Tianyuan Road, Tianhe District, Guangzhou, Guangdong, 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 EUTs SWFT-SD14-BLK and SWFT-XPRP-BLK are SWFT eScooter which have that wireless BT and NFC function.
The EUT stream music wirelessly throuth BT link.
They use the same circuit designs and the wireless modules except for the different appearance

Therefore, all tests were performed on one representative model SWFT-SD14-BLK, and additional RSE tests were performed on one representative model SWFT-XPRP-BLK.

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

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	SWFT eScooter
Type Designation:	SWFT-SD14-BLK, SWFT-XPRP-BLK
Trademark:	SWFT
FCC ID:	2APZ3SD (for model SWFT-SD14-BLK) 2APZ3XPRP (for model SWFT-XPRP-BLK)
IC:	4238A-SD (for model SWFT-SD14-BLK) 4238A-XPRP (for model SWFT-XPRP-BLK)
HVIN:	SWFT-SD14-BLK, SWFT-XPRP-BLK
PMN:	SWFT eScooter
Rating:	DC 36.0V, 7.8AH Li-ion intergral DC 42.0V, 1.5A (for charging mode)
Operating Voltage:	DC 36.0V, 7.8AH Li-ion
Operating Temperature Range:	-10ºC to +55ºC
Technical Specification of Bluetooth	
Operating Frequency:	2402 MHz to 2480 MHz
Type of Modulation:	GFSK, π/4-DQPSK, 8DPSK
Channel Number:	BR & EDR mode:79 channels,
Channel Separation:	BR & EDR mode:1MHz
Data Rate:	BR & EDR mode: 1Mbps, 2Mbps, 3Mbps
Antenna Type:	Integral Antenna
Antenna Gain:	-0.68 dBi (Provided by the Client)

Note: All information is provided by customer confirmation.

Table 4: RF Channel and Frequency of Bluetooth BR & EDR

RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)	RF Channel	Frequency (MHz)
0	**2402.00**	20	2422.00	40	2442.00	60	2462.00
1	2403.00	21	2423.00	41	2443.00	61	2463.00
2	2404.00	22	2424.00	42	2444.00	62	2464.00
3	2405.00	23	2425.00	43	2445.00	63	2465.00
4	2406.00	24	2426.00	44	2446.00	64	2466.00
5	2407.00	25	2427.00	45	2447.00	65	2467.00
6	2408.00	26	2428.00	46	2448.00	66	2468.00
7	2409.00	27	2429.00	47	2449.00	67	2469.00
8	2410.00	28	2430.00	48	2450.00	68	2470.00
9	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		

Test frequencies are lowest channel: 2402 MHz, middle channel: 2441 MHz and highest channel: 2480 MHz for Bluetooth BR & EDR.

3.3 Independent Operation Modes

The basic operation modes are:

A. On, Bluetooth transmitting mode (BR & EDR mode)
    1) Low Channel
    2) Middle Channel
    3) High Channel

B. On, Transmitting on Hopping channel

C. On, for charging mode

D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- ID Label and Location Info
- Schematics
- Operation Description
- Block Diagram
- PCB Layout

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 tests were performed according to the procedures in ANSI C63.10: 2013.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	Remark
Notebook	Lenovo	T14	PF-35VTG1

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 1GHz)

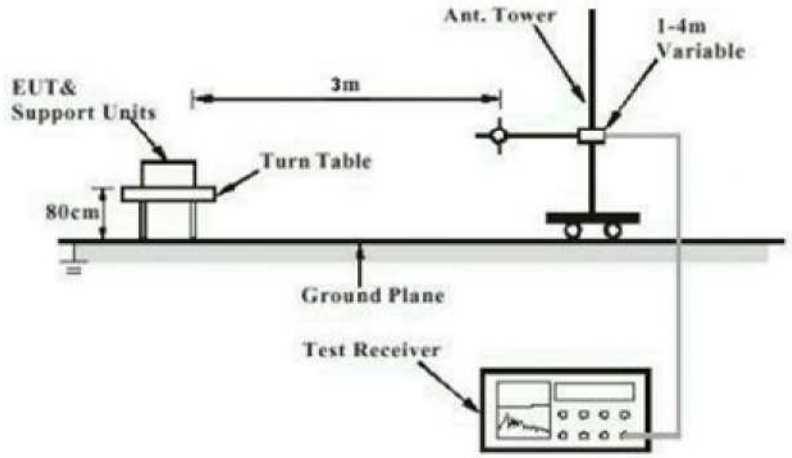


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

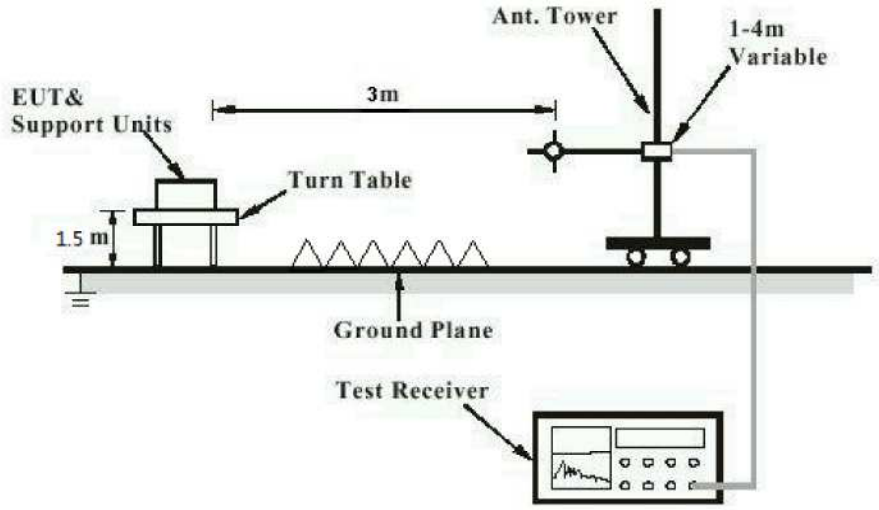


Diagram of Measurement Configuration for Mains Conduction Measurement

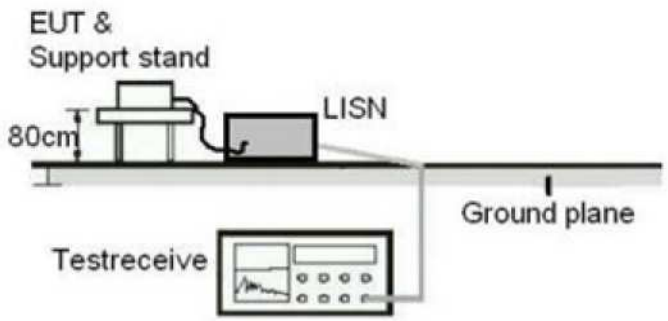
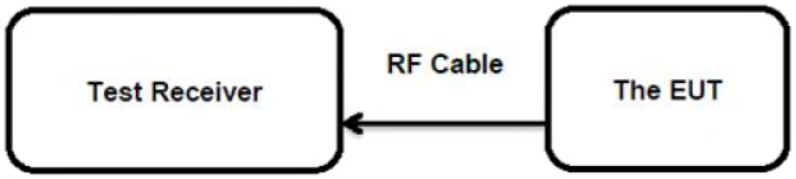


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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 6.8

The EUT has an Integral Antenna, the directional gain of antenna is -0.68 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.

5.1.2 Maximum Peak Conducted Output Power

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(b)(1)&(3) RSS-247 Clause 5.4(b)&(d)
Basic standard	:	ANSI C63.10: 2013
Limits	:	FHSS < 0.125 Watts, DSSS < 1.0 Watts
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2024-09-04 to 2024-09-30
Input voltage	:	Internal battery operated
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	22 ℃
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 6: Test Result of Maximum Peak Conducted Output Power, Bluetooth BR & EDR

Test Mode	Test Channel (MHz)	Measured Peak Power		Limit (W)
		(dBm)	(mW)	
GFSK (BR)	2402.0	-10.18	0.0959	< 1.0
	2441.0	-10.39	0.0914	
	2480.0	-9.08	0.1235	
8DPSK (EDR)	2402.0	-10.12	0.0973	< 0.125
	2441.0	-10.45	0.0902	
	2480.0	-8.78	0.1324	

Note:
1) The cable loss is taken into account in results.
2) Antenna gain(G): -0.68 dBi

5.1.3 99% Bandwidth

RESULT: **Pass**

Test Specification

Test standard	:	FCC Part 15.247(a) RSS-Gen Clause 6.7
Basic standard	:	ANSI C63.10: 2013
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2024-09-04 to 2024-09-30
Input voltage	:	Internal battery operated
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	22℃
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

Table 7: Test Result of 99% Bandwidth, General 2.4GHz

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.975	2401.6280	2402.6030	---	---
DH5	Ant1	2441	1.002	2440.6220	2441.6240	---	---
DH5	Ant1	2480	0.999	2479.6250	2480.6240	---	---
2DH5	Ant1	2402	1.383	2401.4210	2402.8040	---	---
2DH5	Ant1	2441	1.41	2440.4000	2441.8100	---	---
2DH5	Ant1	2480	1.329	2479.4600	2480.7890	---	---
3DH5	Ant1	2402	1.425	2401.3760	2402.8010	---	---
3DH5	Ant1	2441	1.404	2440.4000	2441.8040	---	---
3DH5	Ant1	2480	1.275	2479.4810	2480.7560	---	---

5.1.4 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	:	2024-09-04 to 2024-09-30
Input voltage	:	Internal battery operated
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	22 ℃
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

Table 8: Test Result of 20dB Bandwidth, General 2.4GHz

TestMode	Antenna	Frequency[MHz]	BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.06	2401.57	2402.63	---	---
DH5	Ant1	2441	1.07	2440.58	2441.65	---	---
DH5	Ant1	2480	1.05	2479.60	2480.65	---	---
2DH5	Ant1	2402	1.39	2401.43	2402.82	---	---
2DH5	Ant1	2441	1.37	2440.45	2441.82	---	---
2DH5	Ant1	2480	1.34	2479.46	2480.80	---	---
3DH5	Ant1	2402	1.35	2401.45	2402.80	---	---
3DH5	Ant1	2441	1.35	2440.45	2441.80	---	---
3DH5	Ant1	2480	1.33	2479.46	2480.78	---	---

5.1.5 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	:	≥ 25kHz or 2/3 of 20dB bandwidth, whichever is greater
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2024-09-04 to 2024-09-30
Input voltage	:	Internal battery operated
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	22 ℃
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

For the measurement records, refer to the appendix A.

5.1.6 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	:	2024-09-04 to 2024-09-30
Input voltage	:	Internal battery operated
Operation mode	:	B
Ambient temperature	:	22 ℃
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 9: Test Result of Number of Hopping Frequency, General 2.4GHz

Test Mode	Frequency Range	Measured Quantity of Hopping Channel	Limit
FHSS	2402 - 2480 MHz	79	≥15

5.1.7 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	:	2024-09-04 to 2024-09-30
Input voltage	:	Internal battery operated
Operation mode	:	B
Test channel	:	Low / Middle / High
Ambient temperature	:	22 ℃
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

For details refer to following test result.

Table 10: Test Result of Time of Occupancy

Test Mode	Test Channel (MHz)	Pulse Width(ms)	Number of Channels	Measured Dwell Time(s)	Limit (s)
BDR	2402	0.336	330	0.111	0.4s
	2441	0.336	330	0.111	
	2480	0.336	330	0.111	

Test Mode	Test Channel (MHz)	Pulse Width(ms)	Number of Channels	Measured Dwell Time(s)	Limit (s)
EDR	2402	2.890	110	0.318	0.4s
	2441	2.890	110	0.318	
	2480	2.890	110	0.318	

Note:
Dwell time = Pulse width x Number of channels in Period
Period = 0.4 (seconds/ channel) x 79 (channel) = 31.6 seconds

5.1.8 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); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a)
Kind of test site	:	Shielded Room

Test Setup

Date of testing	:	2024-09-04 to 2024-09-30
Input voltage	:	Internal battery operated
Operation mode	:	A
Test channel	:	Low / Middle / High
Ambient temperature	:	22 ℃
Relative humidity	:	55 %
Atmospheric pressure	:	101 kPa

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

For the measurement records, refer to the appendix A.

5.1.9 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 Section 8.9 & 8.10
Kind of test site	:	3m Semi-anechoic Chamber

Test Setup

Date of testing	:	2024-09-04 to 2024-09-30
Input voltage	:	Internal battery operated
Operation mode	:	A
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. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

5.1.10 Conducted Emission on AC Mains

RESULT: **N/A**

Test Specification

Test standard	:	FCC Part 15.207(a) RSS-Gen Clause 8.8
Basic standard	:	ANSI C63.4:2014
Frequency range	:	0.15 – 30MHz
Classification	:	Class B
Limits	:	FCC Part 15.207(a) RSS-Gen Table 4
Kind of test site	:	Shielded Room

Note: Bluetooth function will be disabled when product is in charging.

6 Photographs of the Test Set-Up

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

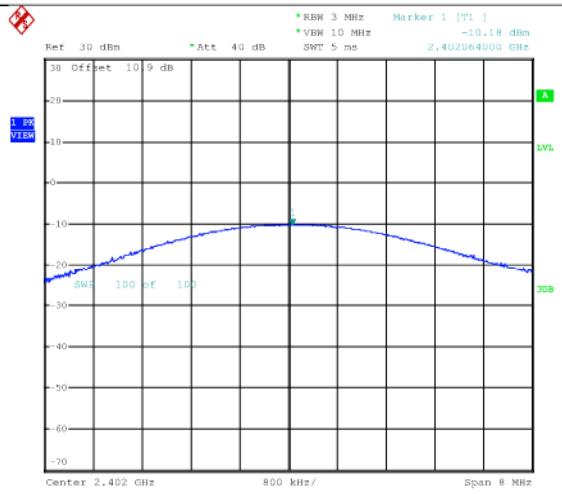
7 List of Tables

Appendix A: Test Results of 2.4GHz BT

Appendix A.1: Test Results of Maximum conducted output power

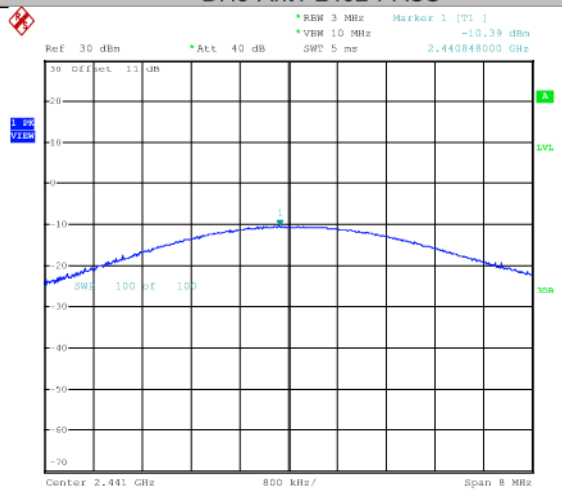
TestMode	Antenna	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	2402	-10.18	≤20.97	PASS
DH5	Ant1	2441	-10.39	≤20.97	PASS
DH5	Ant1	2480	-9.08	≤20.97	PASS
2DH5	Ant1	2402	-10.12	≤20.97	PASS
2DH5	Ant1	2441	-10.42	≤20.97	PASS
2DH5	Ant1	2480	-8.90	≤20.97	PASS
3DH5	Ant1	2402	-10.12	≤20.97	PASS
3DH5	Ant1	2441	-10.45	≤20.97	PASS
3DH5	Ant1	2480	-8.78	≤20.97	PASS

Test Graphs



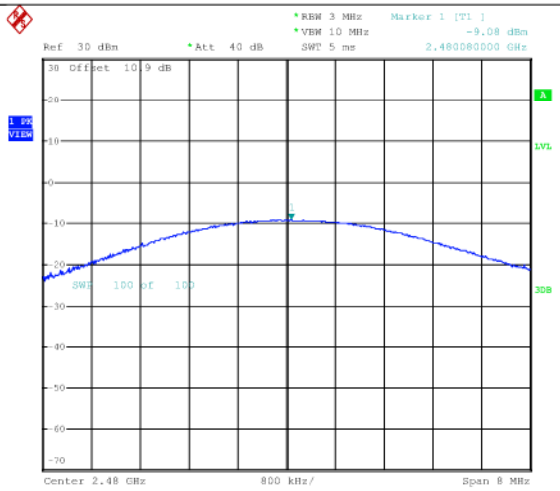
001-EIRP-L
Date: 10.SEP.2024 20:33:46

DH5-Ant1-2402-PASS



001-EIRP-L
Date: 10.SEP.2024 20:34:12

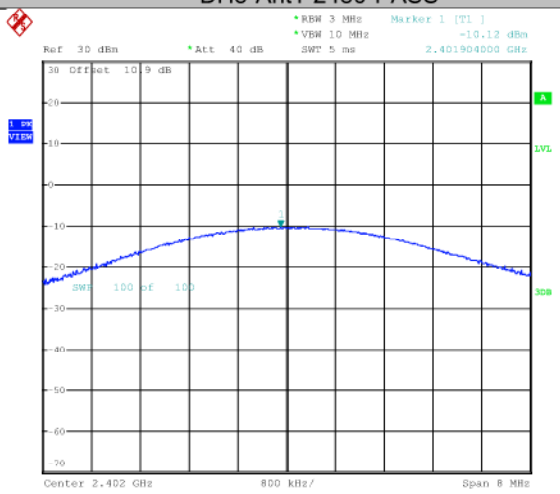
DH5-Ant1-2441-PASS



001-EIRP-L

Date: 10.SEP.2024 20:34:37

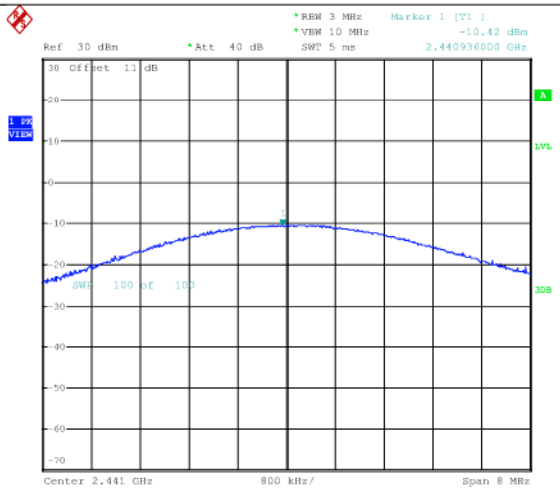
DH5-Ant1-2480-PASS



001-EIRP-L

Date: 10.SEP.2024 20:35:07

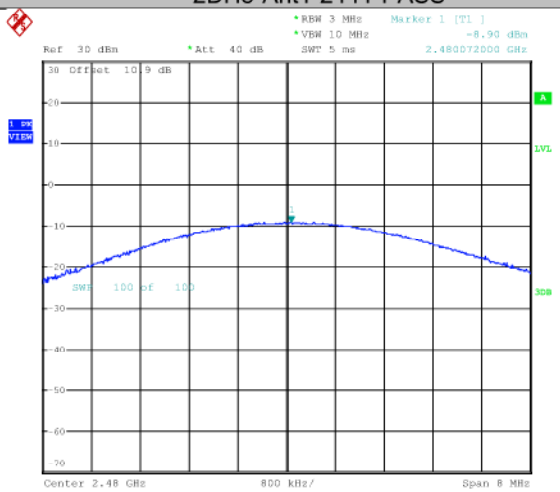
2DH5-Ant1-2402-PASS



001-EIRP-L

Date: 10.SEP.2024 20:35:34

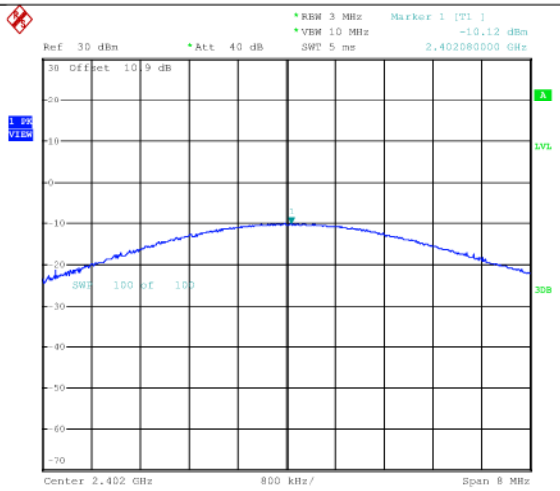
2DH5-Ant1-2441-PASS



001-EIRP-L

Date: 10.SEP.2024 20:36:13

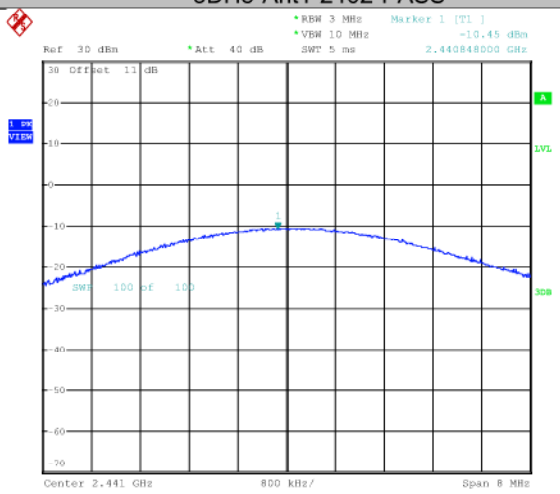
2DH5-Ant1-2480-PASS



001-EIRP-L

Date: 10.SEP.2024 20:36:45

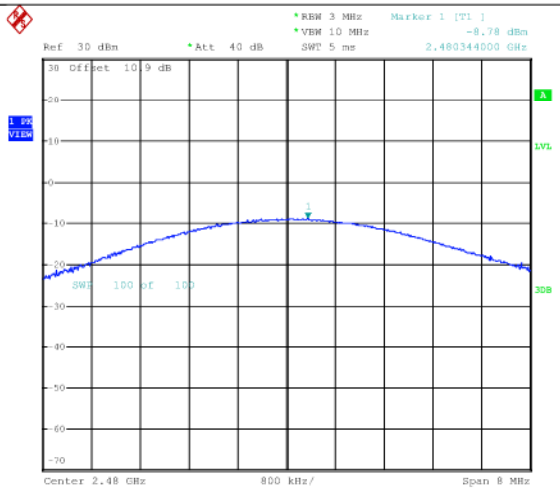
3DH5-Ant1-2402-PASS



001-EIRP-L

Date: 10.SEP.2024 20:37:14

3DH5-Ant1-2441-PASS



001-EIRP-L
Date: 10.SEP.2024 20:37:42

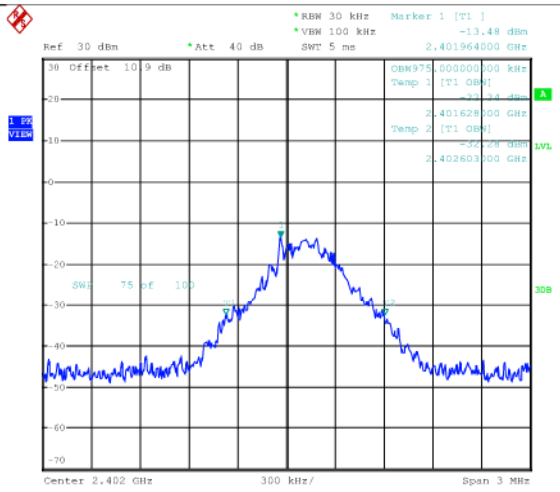
3DH5-Ant1-2480-PASS

Appendix A.2: Test Results of 99% Bandwidth

Test Result

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.975	2401.6280	2402.6030	---	---
DH5	Ant1	2441	1.002	2440.6220	2441.6240	---	---
DH5	Ant1	2480	0.999	2479.6250	2480.6240	---	---
2DH5	Ant1	2402	1.383	2401.4210	2402.8040	---	---
2DH5	Ant1	2441	1.41	2440.4000	2441.8100	---	---
2DH5	Ant1	2480	1.329	2479.4600	2480.7890	---	---
3DH5	Ant1	2402	1.425	2401.3760	2402.8010	---	---
3DH5	Ant1	2441	1.404	2440.4000	2441.8040	---	---
3DH5	Ant1	2480	1.275	2479.4810	2480.7560	---	---

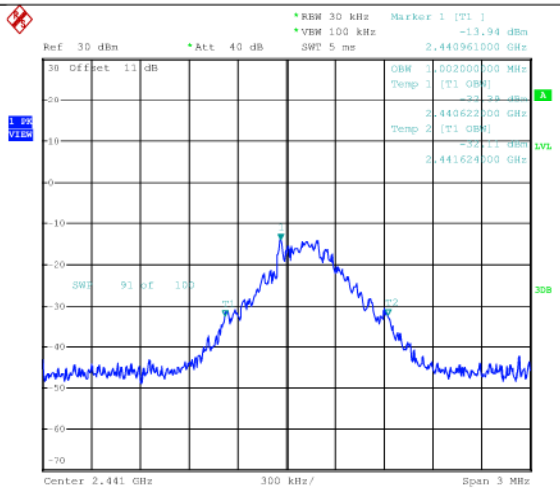
Test Graphs



001-EIRP-L

Date: 10.SEP.2024 19:33:40

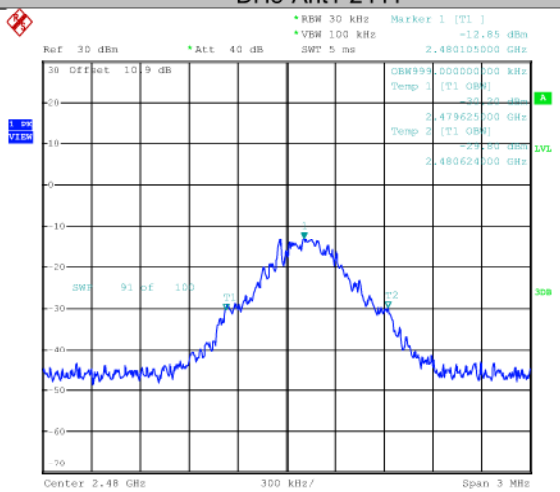
DH5-Ant1-2402



001-EIRP-L

Date: 10.SEP.2024 19:38:31

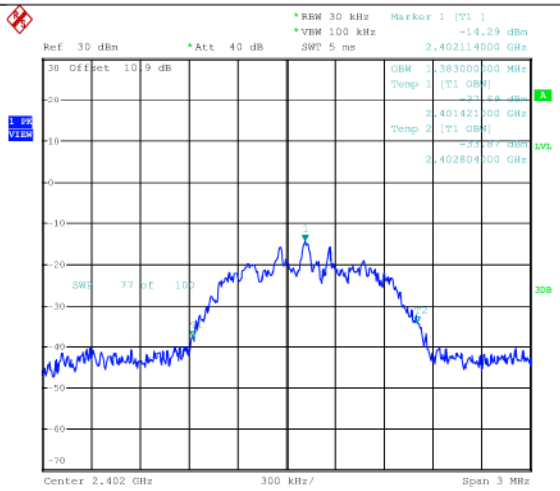
DH5-Ant1-2441



001-EIRP-L

Date: 10.SEP.2024 19:41:37

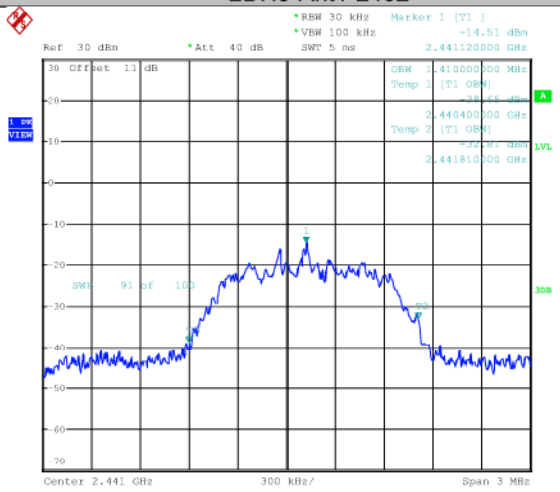
DH5-Ant1-2480



001-EIRP-L

Date: 10.SEP.2024 19:46:05

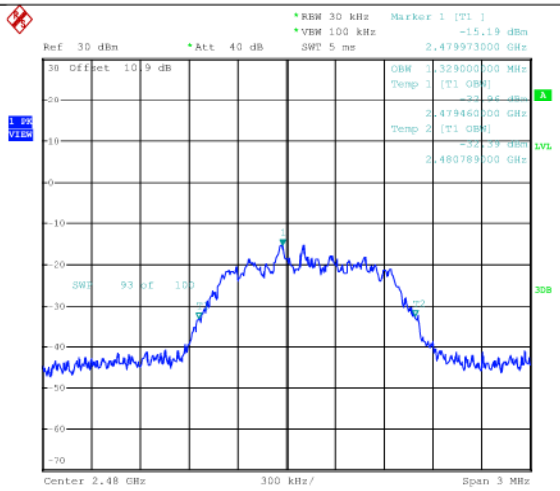
2DH5-Ant1-2402



001-EIRP-L

Date: 10.SEP.2024 19:50:24

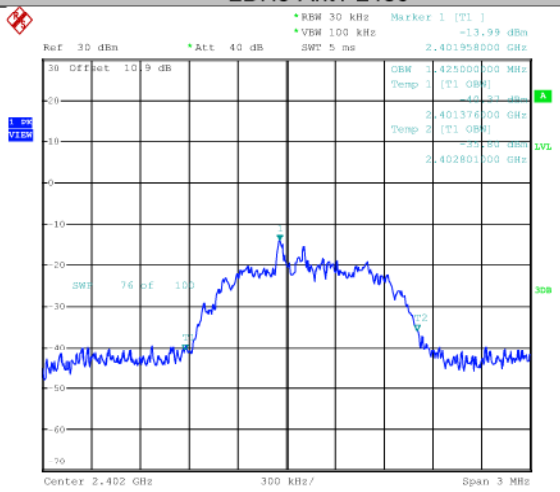
2DH5-Ant1-2441



001-EIRP-L

Date: 10.SEP.2024 19:54:00

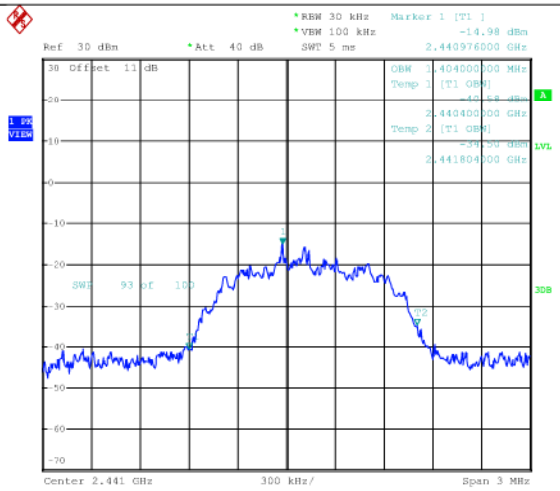
2DH5-Ant1-2480



001-EIRP-L

Date: 10.SEP.2024 19:59:20

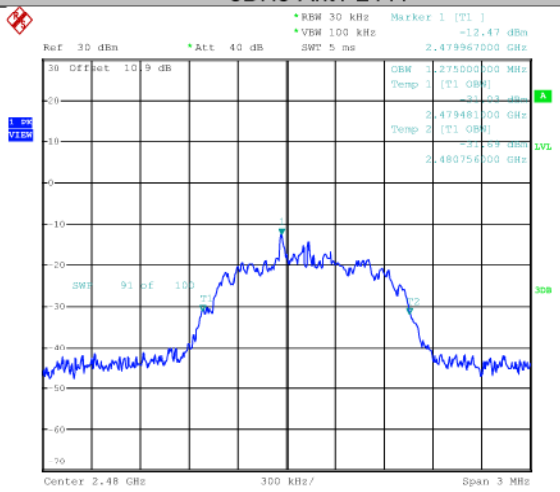
3DH5-Ant1-2402



001-EIRP-L

Date: 10.SEP.2024 20:03:30

3DH5-Ant1-2441



001-EIRP-L

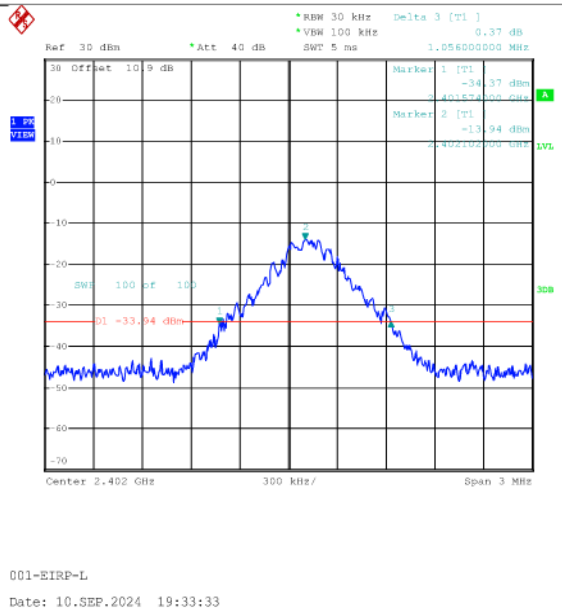
Date: 10.SEP.2024 20:06:25

3DH5-Ant1-2480

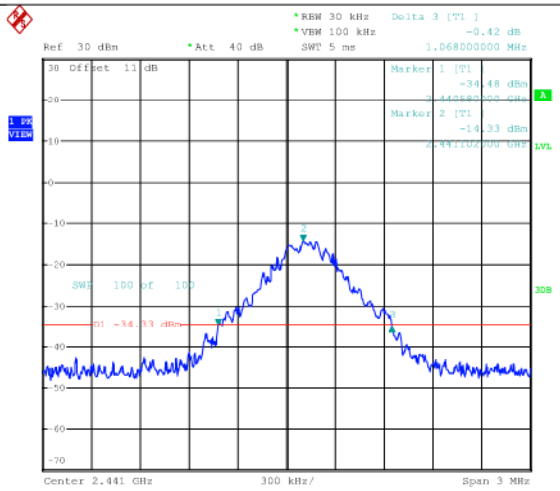
Appendix A.3: Test Results of 20dB Bandwidth

TestMode	Antenna	Frequency[MHz]	BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.06	2401.57	2402.63	---	---
DH5	Ant1	2441	1.07	2440.58	2441.65	---	---
DH5	Ant1	2480	1.05	2479.60	2480.65	---	---
2DH5	Ant1	2402	1.39	2401.43	2402.82	---	---
2DH5	Ant1	2441	1.37	2440.45	2441.82	---	---
2DH5	Ant1	2480	1.34	2479.46	2480.80	---	---
3DH5	Ant1	2402	1.35	2401.45	2402.80	---	---
3DH5	Ant1	2441	1.35	2440.45	2441.80	---	---
3DH5	Ant1	2480	1.33	2479.46	2480.78	---	---

Test Graphs



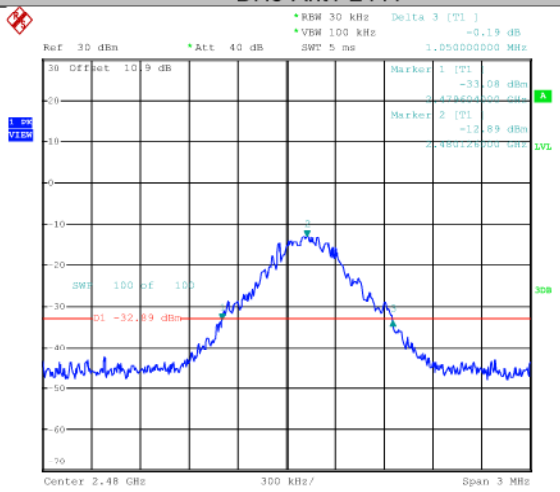
DH5-Ant1-2402



001-EIRP-L

Date: 10.SEP.2024 19:38:23

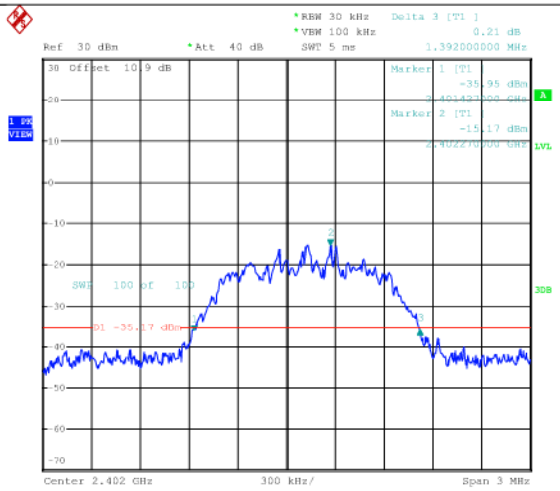
DH5-Ant1-2441



001-EIRP-L

Date: 10.SEP.2024 19:41:29

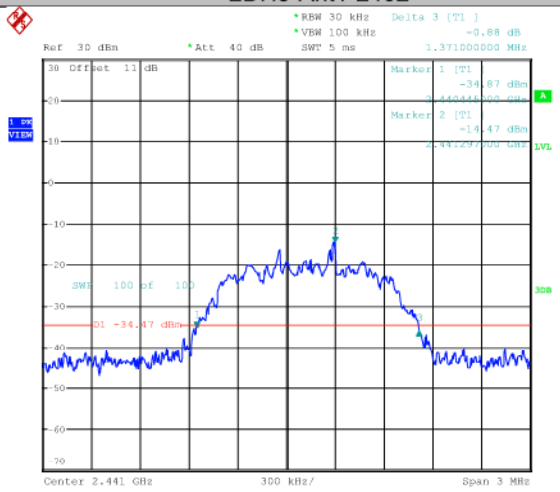
DH5-Ant1-2480



001-EIRP-L

Date: 10.SEP.2024 19:45:58

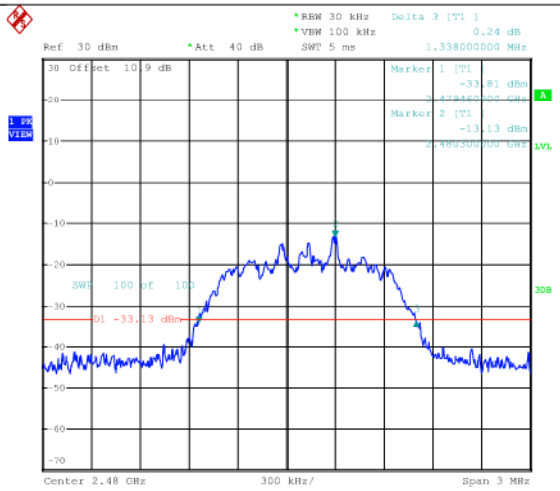
2DH5-Ant1-2402



001-EIRP-L

Date: 10.SEP.2024 19:50:16

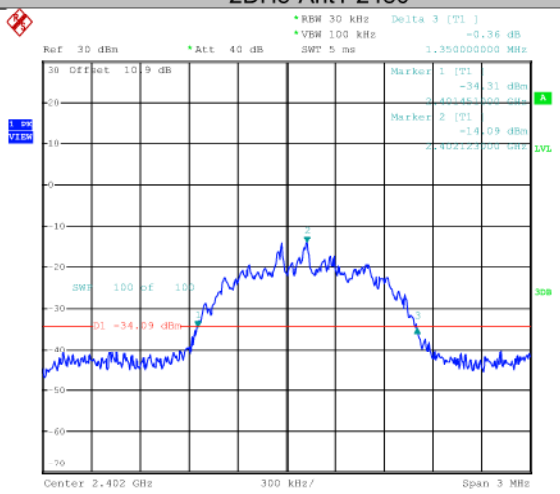
2DH5-Ant1-2441



001-EIRP-L

Date: 10.SEP.2024 19:53:52

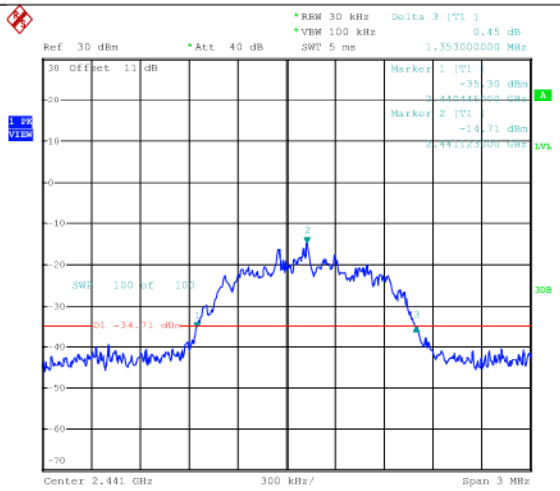
2DH5-Ant1-2480



001-EIRP-L

Date: 10.SEP.2024 19:59:12

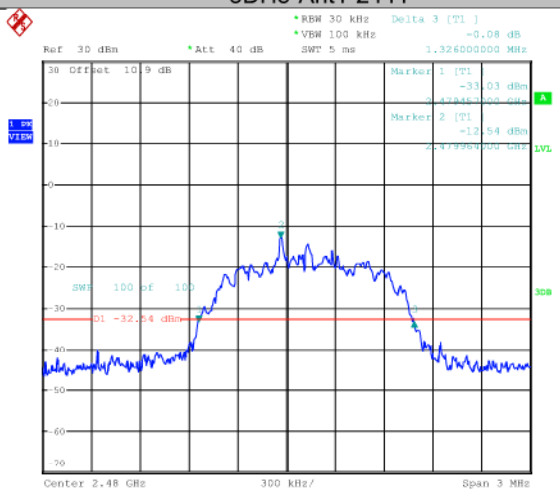
3DH5-Ant1-2402



001-EIRP-L

Date: 10.SEP.2024 20:03:23

3DH5-Ant1-2441



001-EIRP-L

Date: 10.SEP.2024 20:06:17

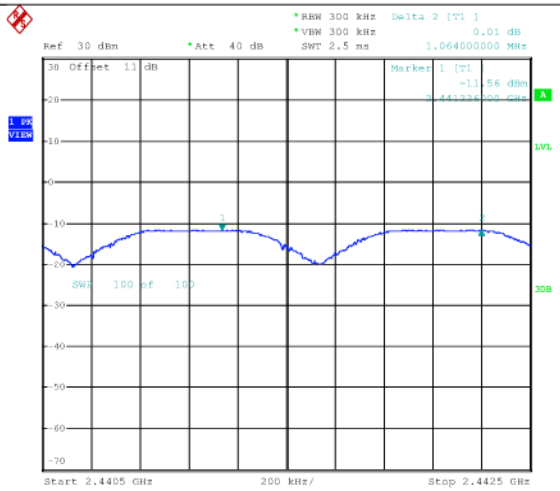
3DH5-Ant1-2480

Appendix A.4: Test Results of Carrier Frequency Separation

Test Result

TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.064	≥0.713	PASS
2DH5	Ant1	Hop	1.332	≥0.927	PASS
3DH5	Ant1	Hop	1.008	≥0.900	PASS

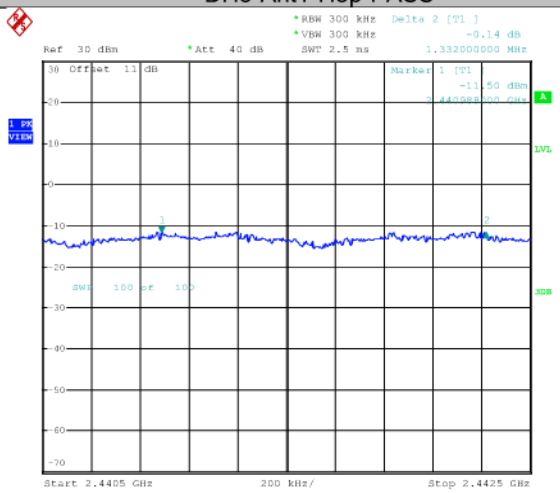
Test Graphs



001-EIRP-L

Date: 10.SEP.2024 20:12:31

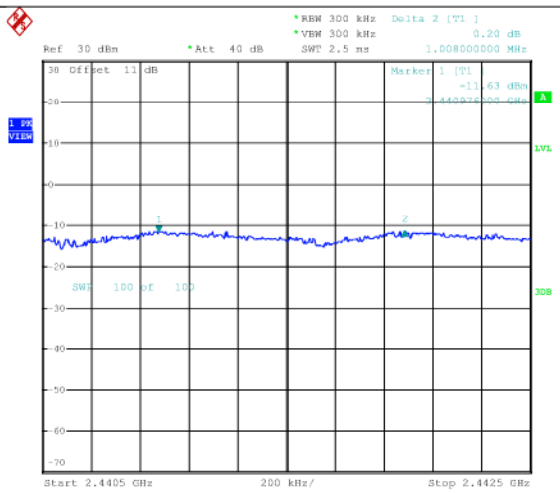
DH5-Ant1-Hop-PASS



001-EIRP-L

Date: 10.SEP.2024 20:20:42

2DH5-Ant1-Hop-PASS



001-EIRP-L
Date: 10.SEP.2024 20:28:05

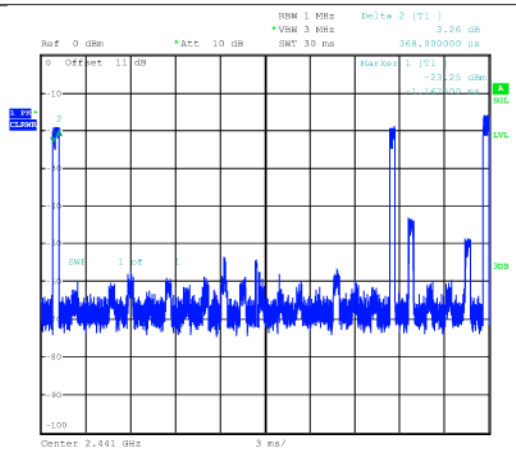
3DH5-Ant1-Hop-PASS

Appendix A.5: Test Results of Time of Occupancy

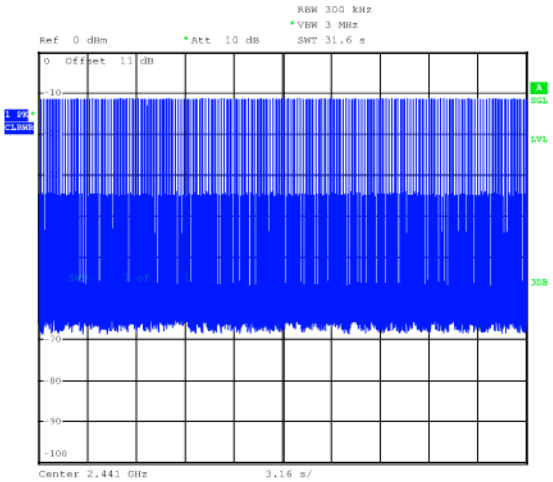
Test Result

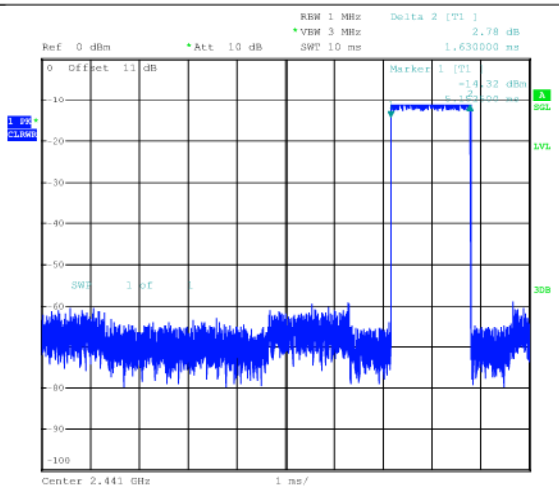
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.368	287	0.106	≤0.4	PASS
DH3	Ant1	Hop	1.630	154	0.251	≤0.4	PASS
DH5	Ant1	Hop	2.873	98	0.282	≤0.4	PASS
3DH1	Ant1	Hop	0.384	289	0.111	≤0.4	PASS
3DH3	Ant1	Hop	1.635	147	0.24	≤0.4	PASS
3DH5	Ant1	Hop	2.880	115	0.331	≤0.4	PASS

Test Graphs



DH1-Ant1-Hop-PASS

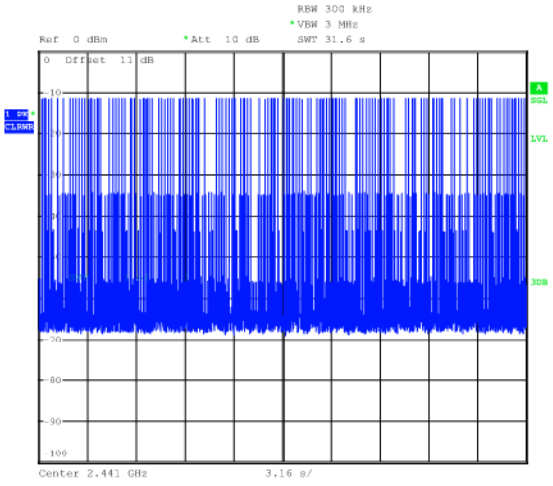




001-EIRP-L

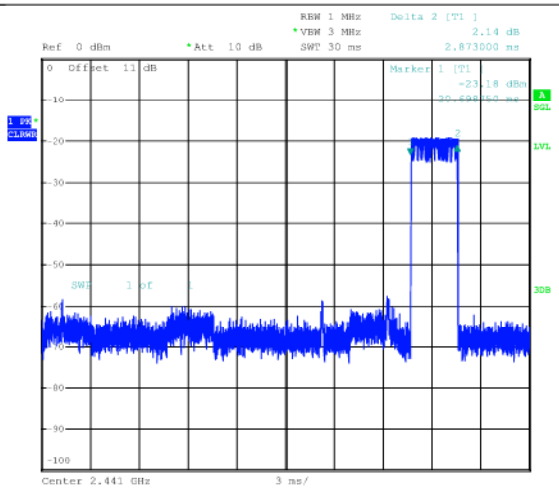
Date: 23.DEC.2024 16:41:24

DH3-Ant1-Hop-PASS



001-EIRP-L

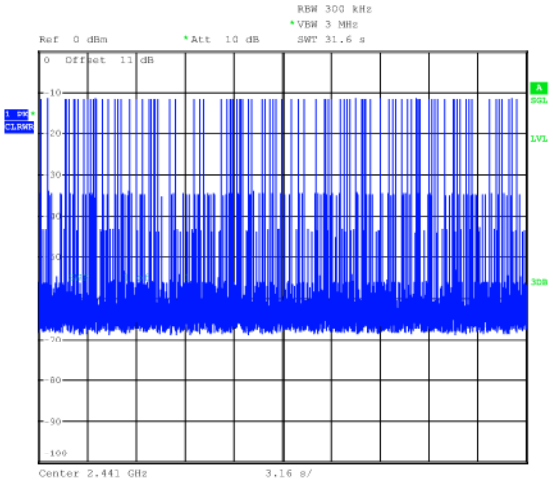
Date: 23.DEC.2024 16:41:59



001-EIRP-L

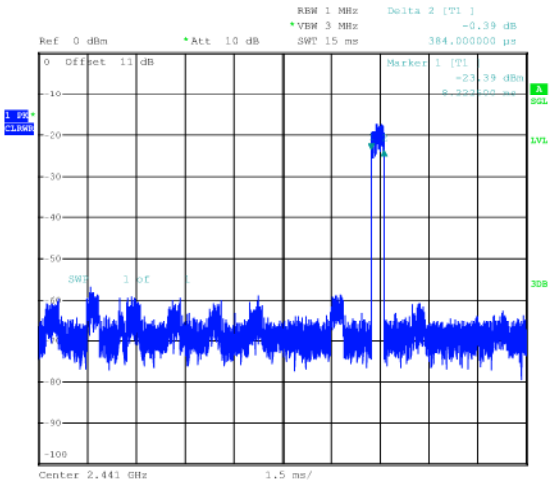
Date: 23.DEC.2024 16:38:29

DH5-Ant1-Hop-PASS



001-EIRP-L

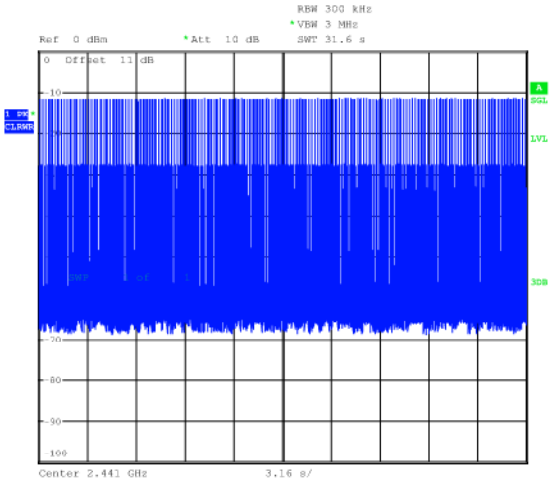
Date: 23.DEC.2024 16:39:04



001-EIRP-L

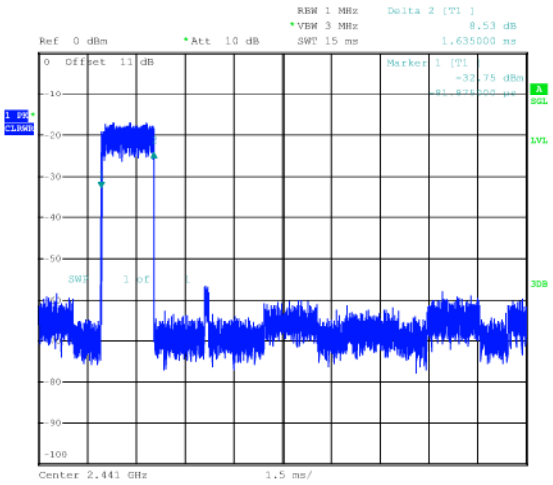
Date: 23.DEC.2024 16:44:35

3DH1-Ant1-Hop-PASS



001-EIRP-L

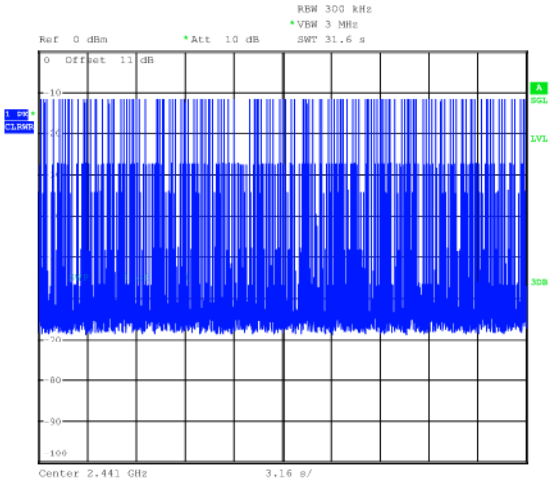
Date: 23.DEC.2024 16:45:09



001-EIRP-L

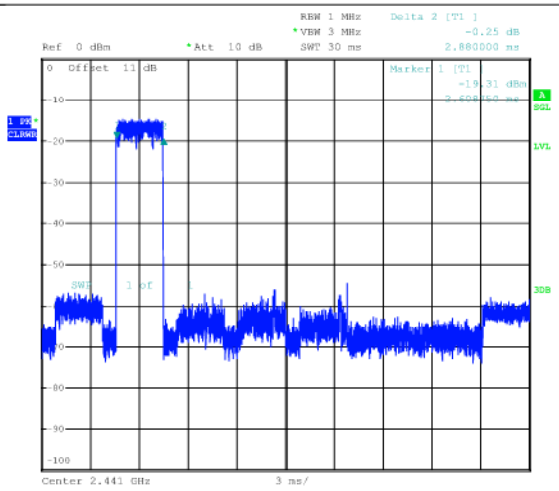
Date: 23.DEC.2024 16:45:59

3DH3-Ant1-Hop-PASS



001-EIRP-L

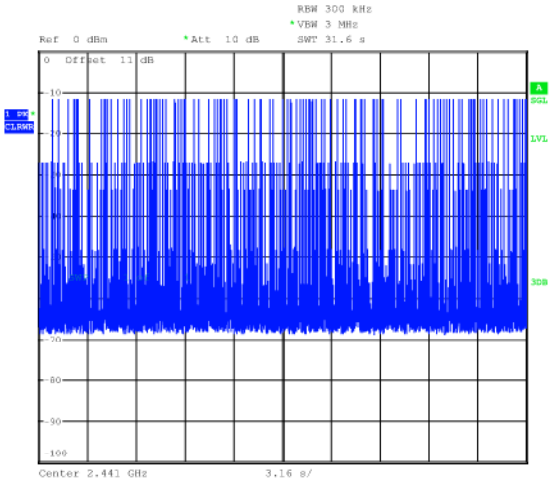
Date: 23.DEC.2024 16:46:34



001-EIRP-L

Date: 23.DEC.2024 16:43:09

3DH5-Ant1-Hop-PASS



001-EIRP-L

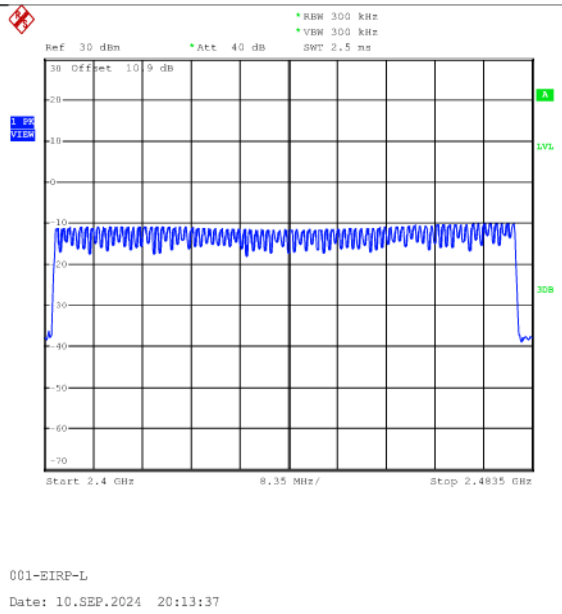
Date: 23.DEC.2024 16:43:44

Appendix A.6: Test Results of Number of Hopping Frequency

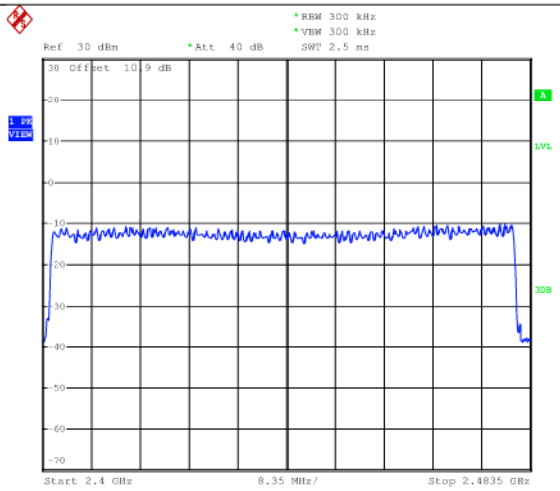
Test Result

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs

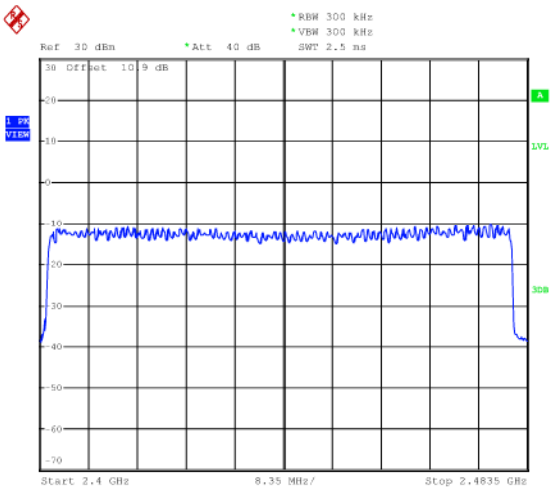


DH5-Ant1-Hop-PASS



001-EIRP-L
Date: 10.SEP.2024 20:21:48

2DH5-Ant1-Hop-PASS



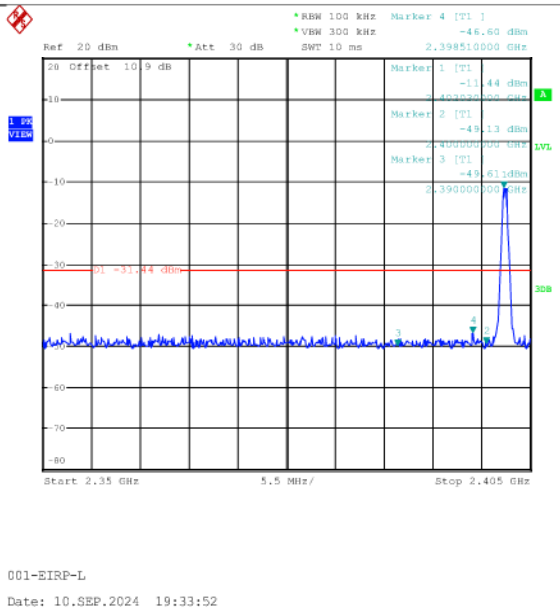
001-EIRP-L
Date: 10.SEP.2024 20:29:10

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

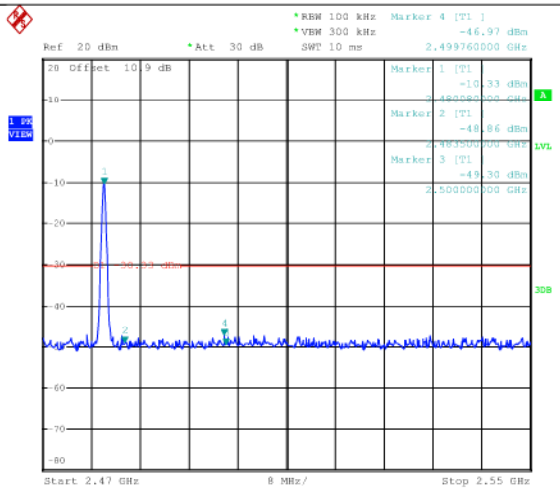
Band Edge

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	-11.44	-46.6	≤-31.44	PASS
DH5	Ant1	High	2480	-10.33	-46.97	≤-30.33	PASS
DH5	Ant1	Low	Hop_2402	-12.38	-46.27	≤-32.38	PASS
DH5	Ant1	High	Hop_2480	-10.93	-46.82	≤-30.93	PASS
2DH5	Ant1	Low	2402	-11.39	-46.28	≤-31.39	PASS
2DH5	Ant1	High	2480	-10.49	-34.97	≤-30.49	PASS
2DH5	Ant1	Low	Hop_2402	-12.79	-46.7	≤-32.79	PASS
2DH5	Ant1	High	Hop_2480	-14.07	-46.61	≤-34.07	PASS
3DH5	Ant1	Low	2402	-11.71	-45.71	≤-31.71	PASS
3DH5	Ant1	High	2480	-11.17	-46.66	≤-31.17	PASS
3DH5	Ant1	Low	Hop_2402	-14.46	-46.69	≤-34.46	PASS
3DH5	Ant1	High	Hop_2480	-12.60	-46.66	≤-32.6	PASS

Test Graphs



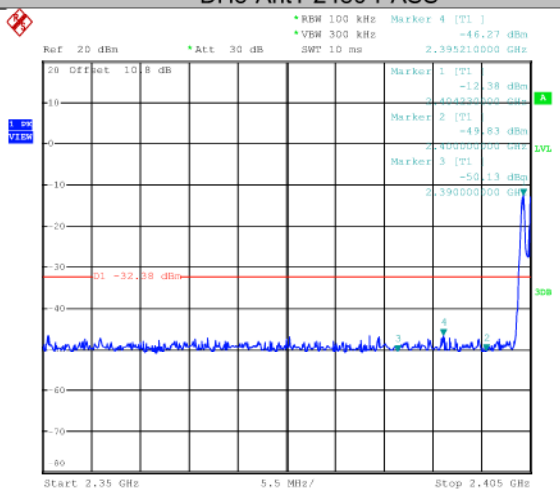
DH5-Ant1-2402-PASS



001-EIRP-L

Date: 10.SEP.2024 19:41:48

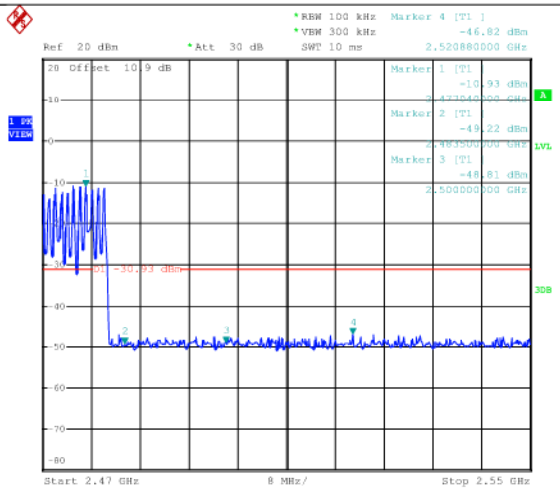
DH5-Ant1-2480-PASS



001-EIRP-L

Date: 10.SEP.2024 20:10:34

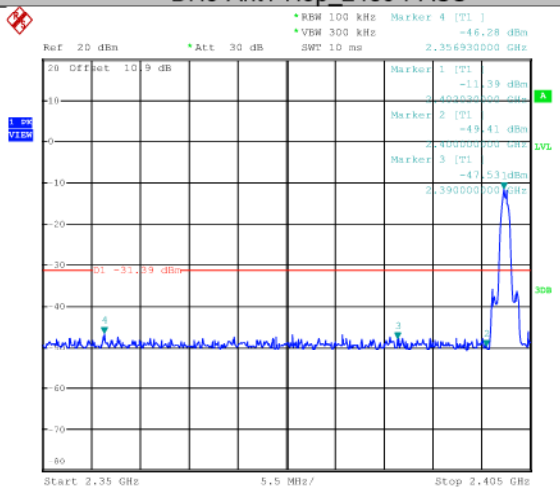
DH5-Ant1-Hop_2402-PASS



001-EIRP-L

Date: 10.SEP.2024 20:17:19

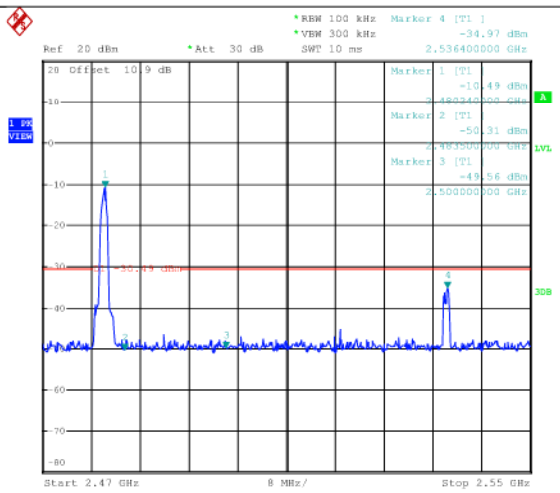
DH5-Ant1-Hop_2480-PASS



001-EIRP-L

Date: 10.SEP.2024 19:46:17

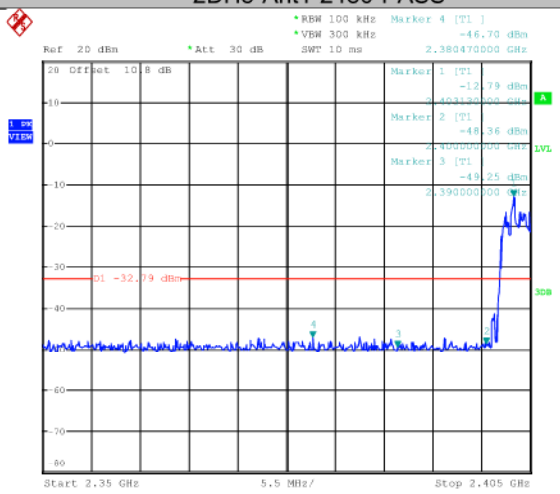
2DH5-Ant1-2402-PASS



001-EIRP-L

Date: 10.SEP.2024 19:54:11

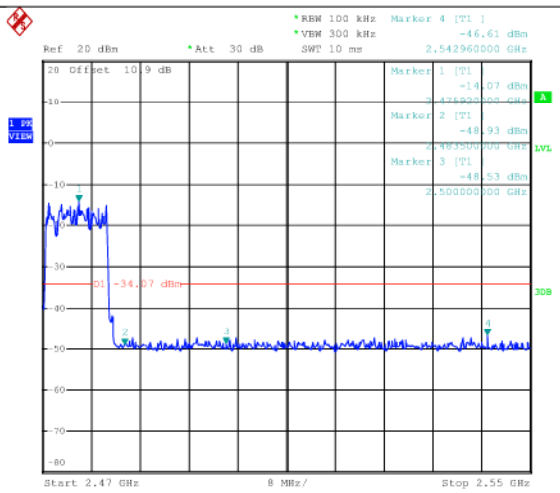
2DH5-Ant1-2480-PASS



001-EIRP-L

Date: 10.SEP.2024 20:18:47

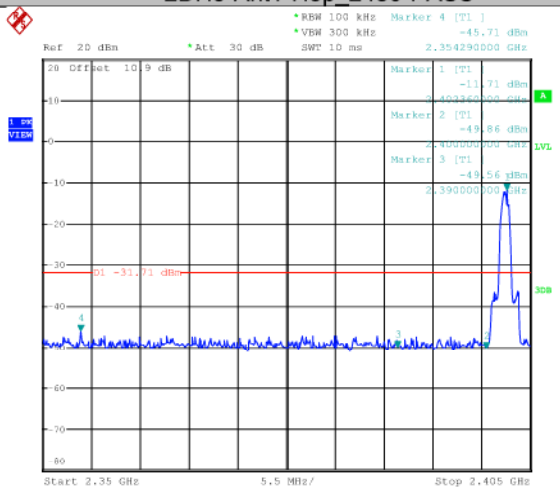
2DH5-Ant1-Hop_2402-PASS



001-EIRP-L

Date: 10.SEP.2024 20:24:25

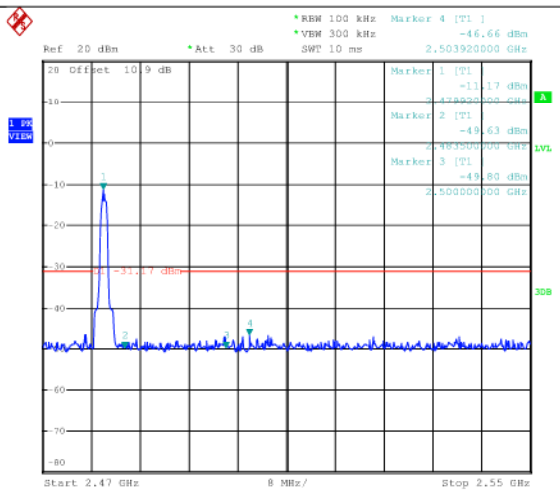
2DH5-Ant1-Hop_2480-PASS



001-EIRP-L

Date: 10.SEP.2024 19:59:31

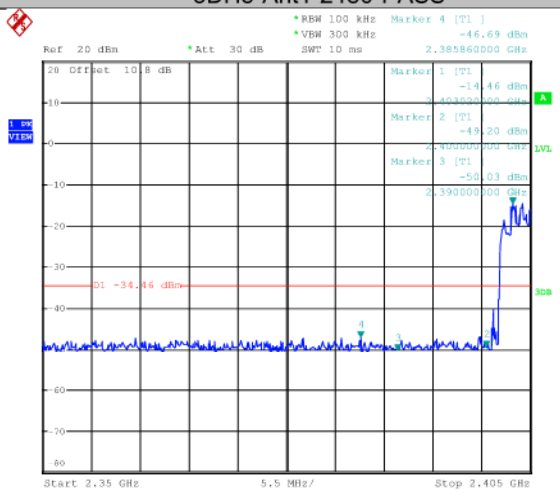
3DH5-Ant1-2402-PASS



001-EIRP-L

Date: 10.SEP.2024 20:06:36

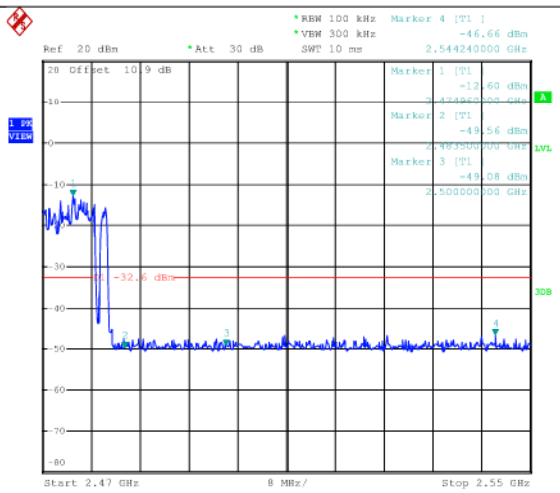
3DH5-Ant1-2480-PASS



001-EIRP-L

Date: 10.SEP.2024 20:25:47

3DH5-Ant1-Hop_2402-PASS



001-EIRP-L

Date: 10.SEP.2024 20:32:19

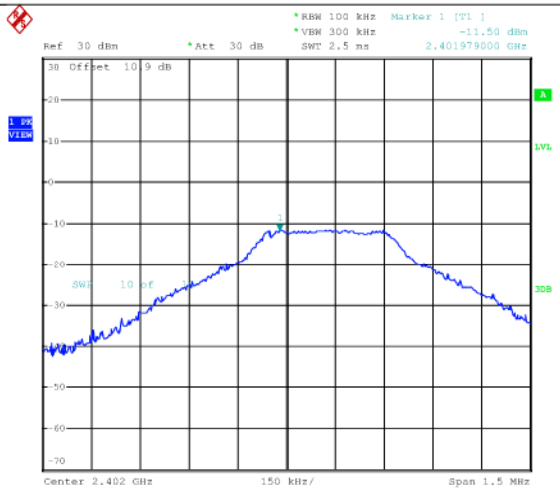
3DH5-Ant1-Hop_2480-PASS

Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	0~Reference	-11.50	-11.50	---	PASS
DH5	Ant1	2402	30~1000	-11.50	-45.59	≤-31.5	PASS
DH5	Ant1	2402	1000~26500	-11.50	-39.57	≤-31.5	PASS
DH5	Ant1	2441	0~Reference	-11.74	-11.74	---	PASS
DH5	Ant1	2441	30~1000	-11.74	-45.66	≤-31.74	PASS
DH5	Ant1	2441	1000~26500	-11.74	-39.66	≤-31.74	PASS
DH5	Ant1	2480	0~Reference	-10.20	-10.20	---	PASS
DH5	Ant1	2480	30~1000	-10.20	-46	≤-30.2	PASS
DH5	Ant1	2480	1000~26500	-10.20	-39.52	≤-30.2	PASS
2DH5	Ant1	2402	0~Reference	-11.37	-11.37	---	PASS
2DH5	Ant1	2402	30~1000	-11.37	-46.24	≤-31.37	PASS
2DH5	Ant1	2402	1000~26500	-11.37	-40.29	≤-31.37	PASS
2DH5	Ant1	2441	0~Reference	-11.74	-11.74	---	PASS
2DH5	Ant1	2441	30~1000	-11.74	-45.03	≤-31.74	PASS
2DH5	Ant1	2441	1000~26500	-11.74	-39.33	≤-31.74	PASS
2DH5	Ant1	2480	0~Reference	-10.11	-10.11	---	PASS
2DH5	Ant1	2480	30~1000	-10.11	-44.21	≤-30.11	PASS
2DH5	Ant1	2480	1000~26500	-10.11	-33.14	≤-30.11	PASS
3DH5	Ant1	2402	0~Reference	-11.30	-11.30	---	PASS
3DH5	Ant1	2402	30~1000	-11.30	-45.5	≤-31.3	PASS
3DH5	Ant1	2402	1000~26500	-11.30	-36.48	≤-31.3	PASS
3DH5	Ant1	2441	0~Reference	-11.66	-11.66	---	PASS
3DH5	Ant1	2441	30~1000	-11.66	-45.26	≤-31.66	PASS
3DH5	Ant1	2441	1000~26500	-11.66	-39.79	≤-31.66	PASS
3DH5	Ant1	2480	0~Reference	-10.24	-10.24	---	PASS
3DH5	Ant1	2480	30~1000	-10.24	-45.35	≤-30.24	PASS
3DH5	Ant1	2480	1000~26500	-10.24	-40.07	≤-30.24	PASS

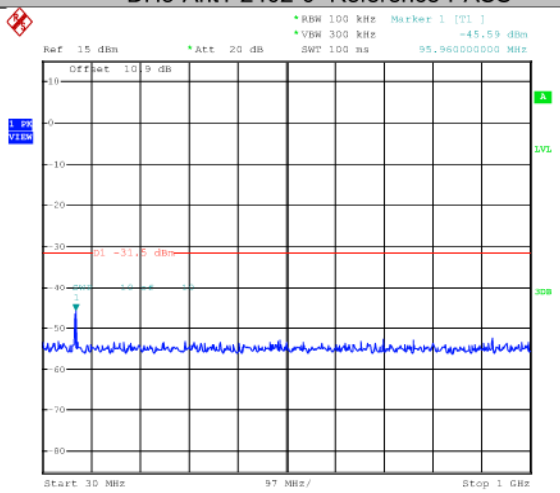
Test Graphs



001-EIRP-L

Date: 10.SEP.2024 19:35:06

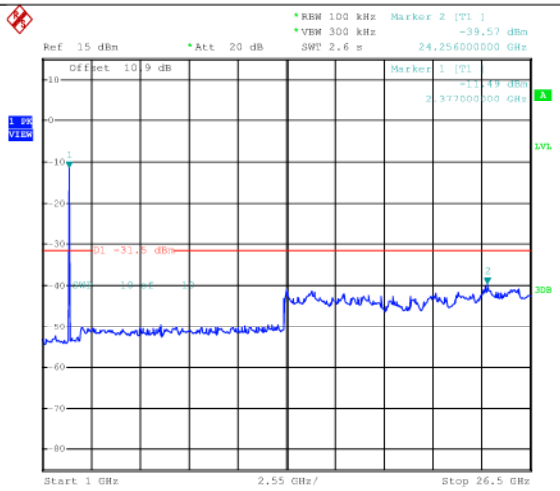
DH5-Ant1-2402-0~Reference-PASS



001-EIRP-L

Date: 10.SEP.2024 19:35:19

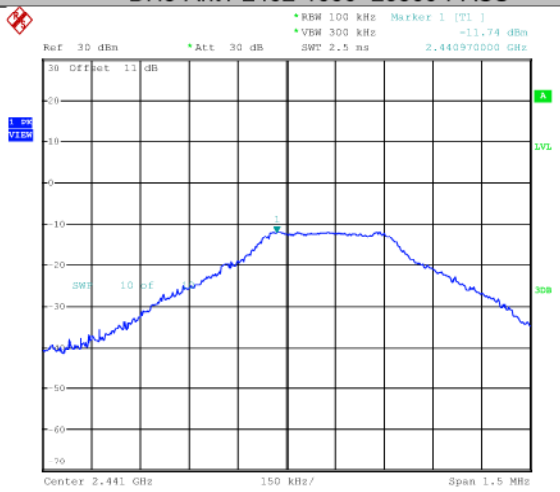
DH5-Ant1-2402-30~1000-PASS



001-EIRP-L

Date: 10.SEP.2024 19:37:04

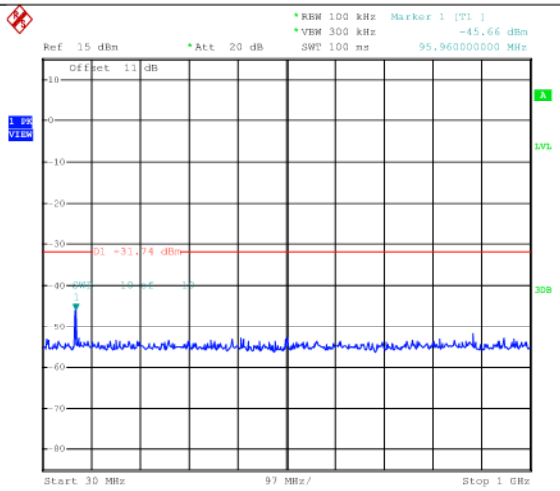
DH5-Ant1-2402-1000~26500-PASS



001-EIRP-L

Date: 10.SEP.2024 19:38:40

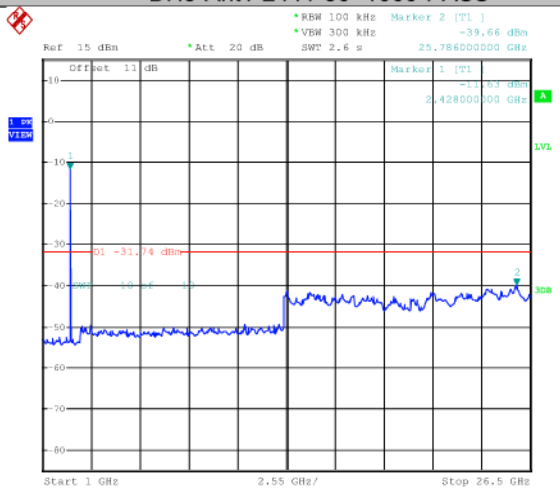
DH5-Ant1-2441-0~Reference-PASS



001-EIRP-L

Date: 10.SEP.2024 19:38:53

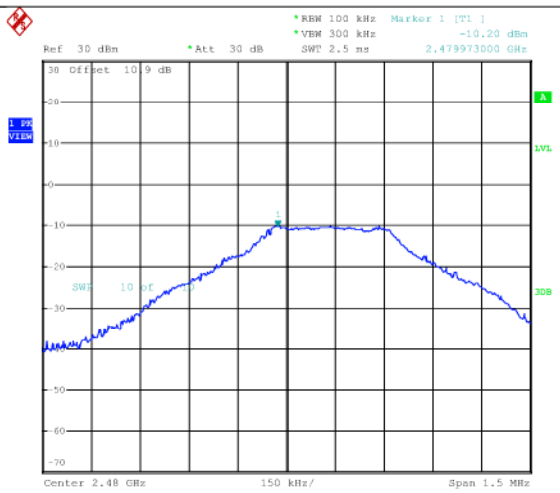
DH5-Ant1-2441-30~1000-PASS



001-EIRP-L

Date: 10.SEP.2024 19:40:38

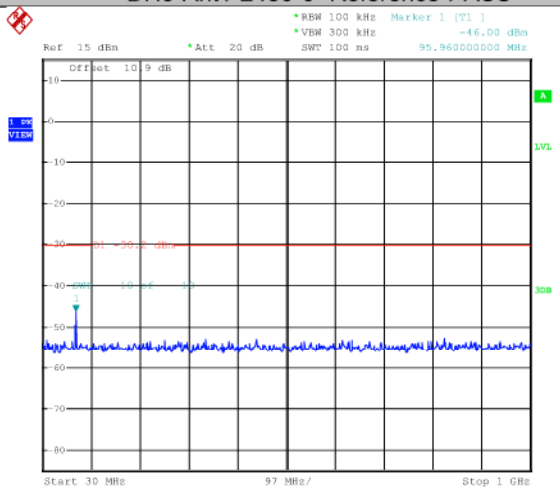
DH5-Ant1-2441-1000~26500-PASS



001-EIRP-L

Date: 10.SEP.2024 19:43:02

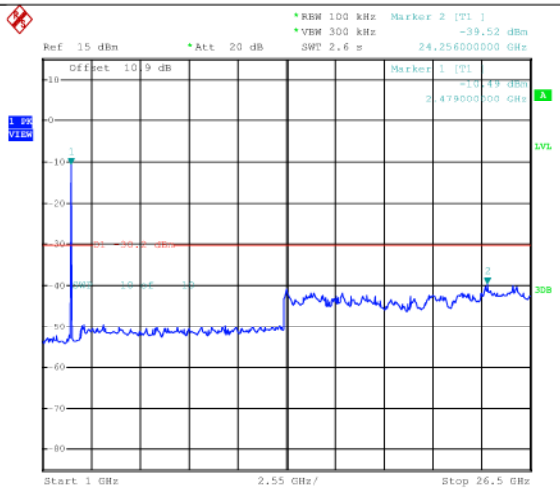
DH5-Ant1-2480-0~Reference-PASS



001-EIRP-L

Date: 10.SEP.2024 19:43:15

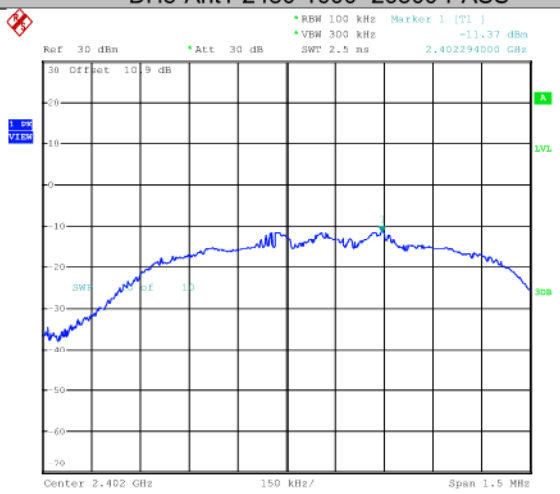
DH5-Ant1-2480-30~1000-PASS



001-EIRP-L

Date: 10.SEP.2024 19:44:59

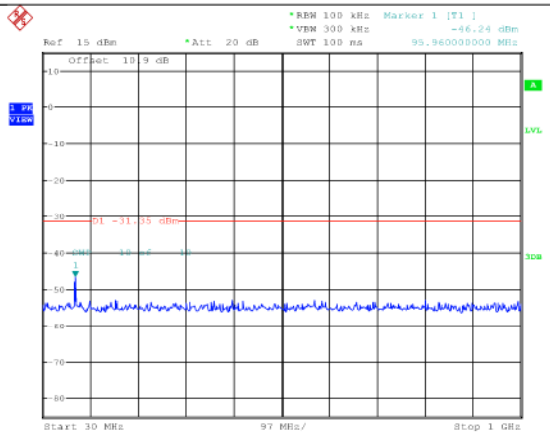
DH5-Ant1-2480-1000~26500-PASS



001-EIRP-L

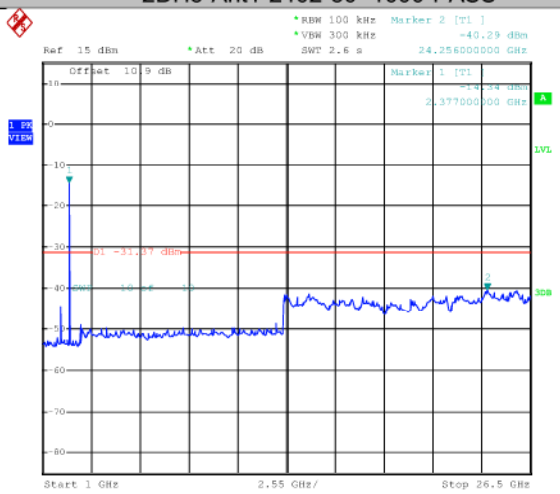
Date: 10.SEP.2024 19:47:31

2DH5-Ant1-2402-0~Reference-PASS



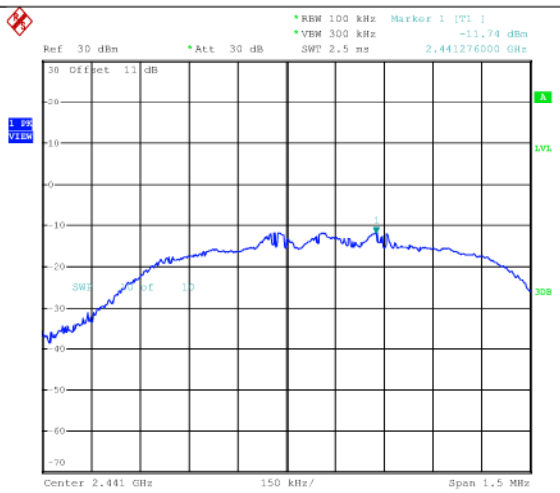
001-EIRP-L
Date: 10.SEP.2024 21:19:46

2DH5-Ant1-2402-30~1000-PASS



001-EIRP-L
Date: 10.SEP.2024 19:49:29

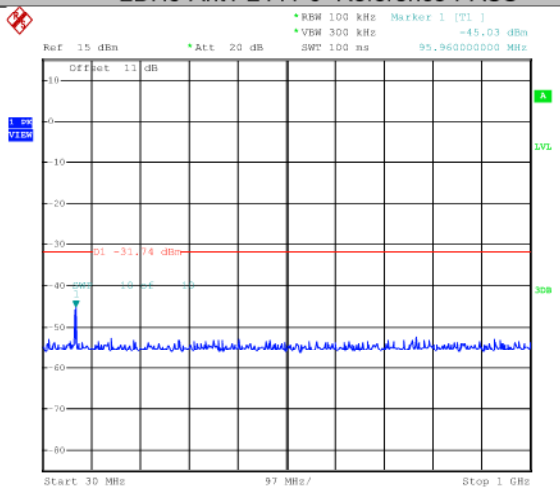
2DH5-Ant1-2402-1000~26500-PASS



001-EIRP-L

Date: 10.SEP.2024 19:50:33

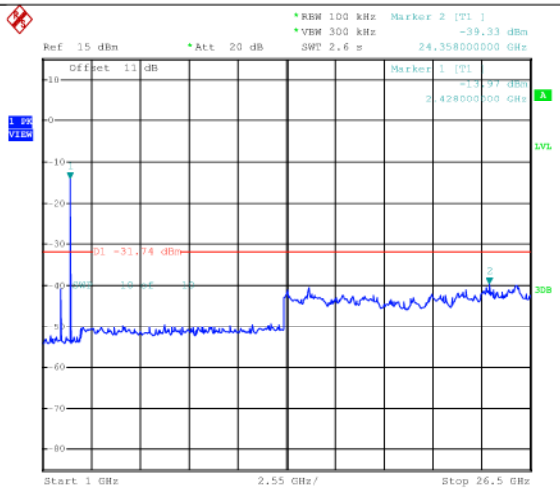
2DH5-Ant1-2441-0~Reference-PASS



001-EIRP-L

Date: 10.SEP.2024 19:50:46

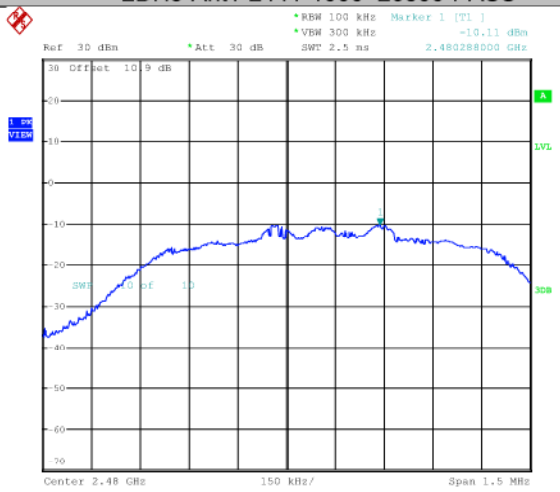
2DH5-Ant1-2441-30~1000-PASS



001-EIRP-L

Date: 10.SEP.2024 19:52:30

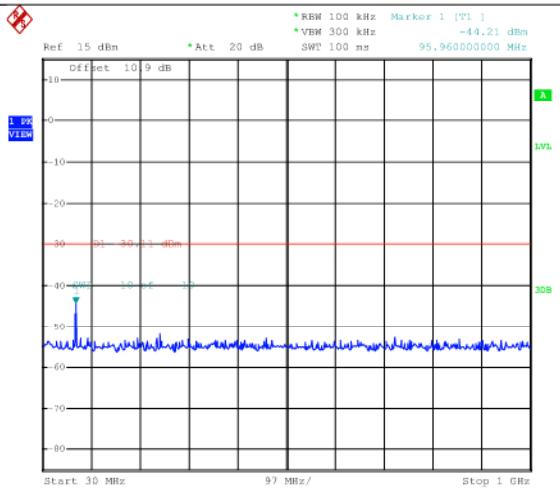
2DH5-Ant1-2441-1000~26500-PASS



001-EIRP-L

Date: 10.SEP.2024 19:55:25

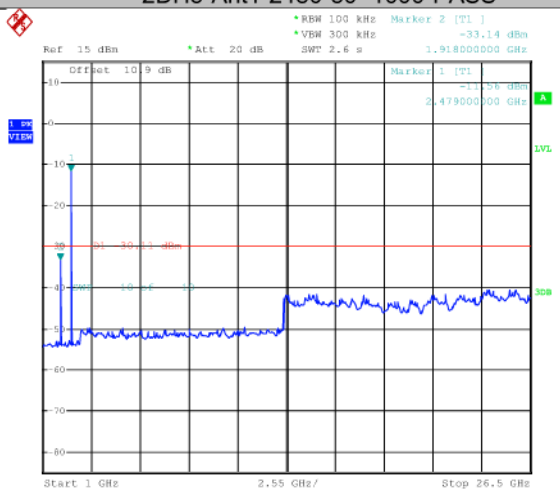
2DH5-Ant1-2480-0~Reference-PASS



001-EIRP-L

Date: 10.SEP.2024 19:55:38

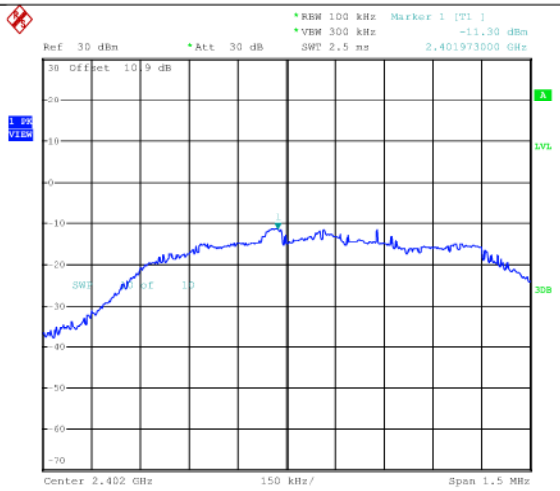
2DH5-Ant1-2480-30~1000-PASS



001-EIRP-L

Date: 10.SEP.2024 19:57:22

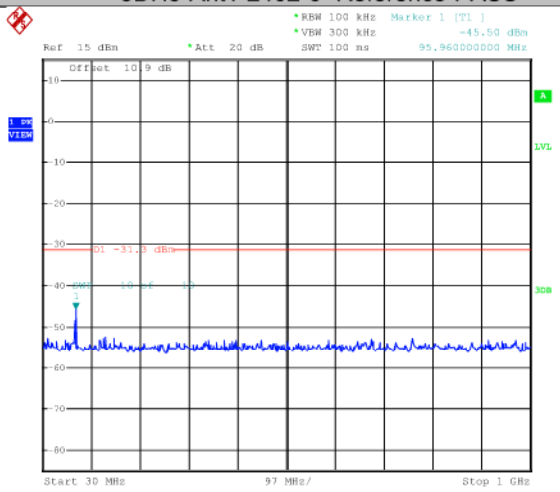
2DH5-Ant1-2480-1000~26500-PASS



001-EIRP-L

Date: 10.SEP.2024 20:00:45

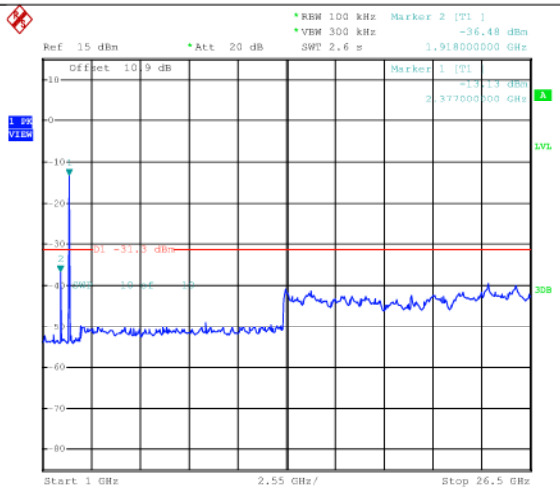
3DH5-Ant1-2402-0~Reference-PASS



001-EIRP-L

Date: 10.SEP.2024 20:00:58

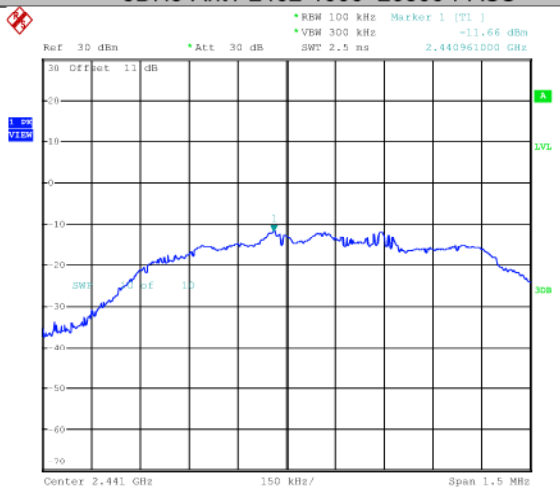
3DH5-Ant1-2402-30~1000-PASS



001-EIRP-L

Date: 10.SEP.2024 20:02:43

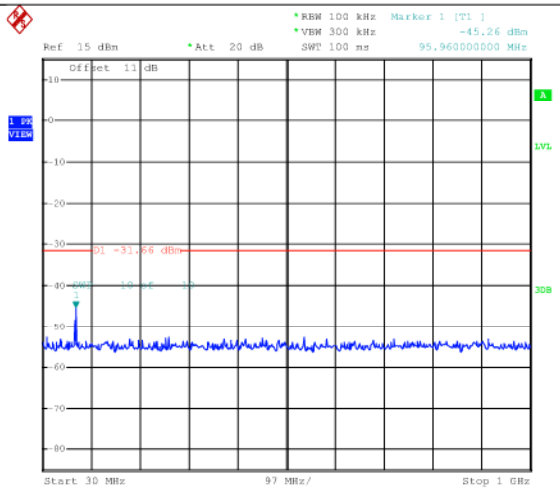
3DH5-Ant1-2402-1000~26500-PASS



001-EIRP-L

Date: 10.SEP.2024 20:03:40

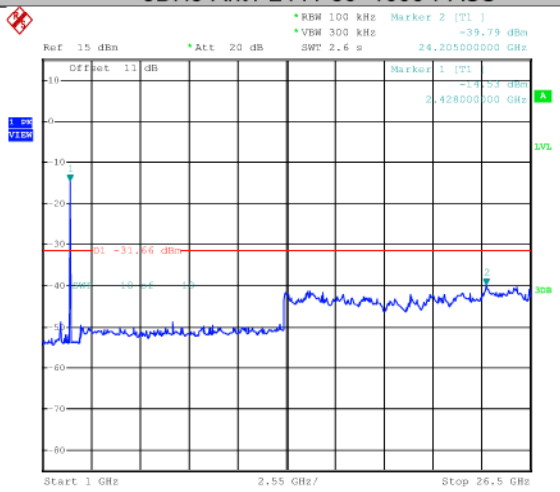
3DH5-Ant1-2441-0~Reference-PASS



001-EIRP-L

Date: 10.SEP.2024 20:03:53

3DH5-Ant1-2441-30~1000-PASS



001-EIRP-L

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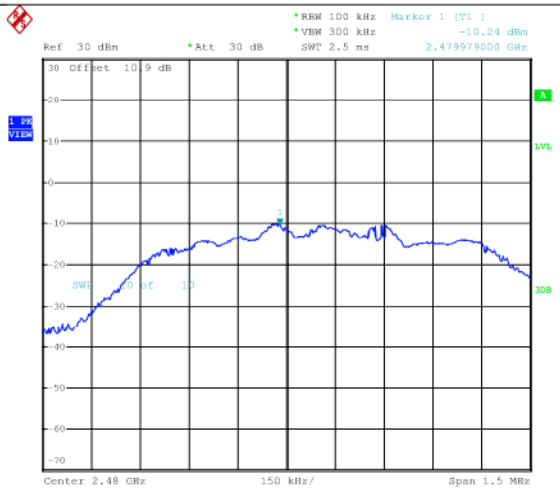
3DH5-Ant1-2441-1000~26500-PASS



001-EIRP-L

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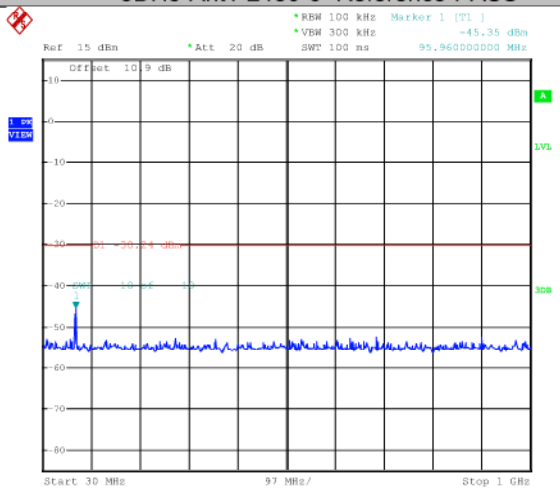

001-EIRP-L

Date: 10.SEP.2024 20:08:03

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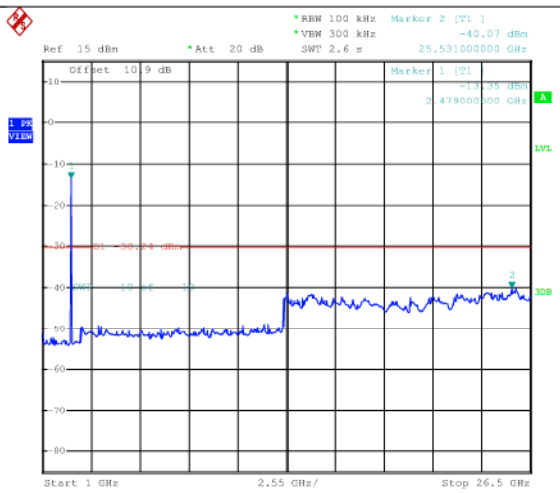


001-EIRP-L
Date: 10.SEP.2024 20:09:47

3DH5-Ant1-2480-1000~26500-PASS

Appendix A.8: Test Results of Radiated Spurious Emissions

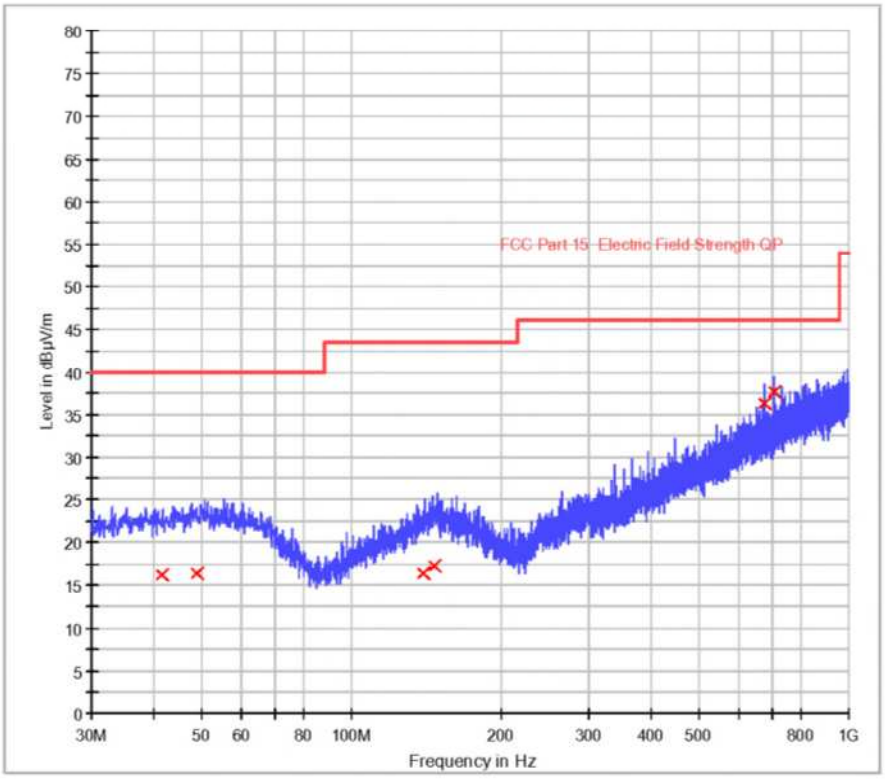
Note:
1) This testing was carried out on different modulations, but only the worst case was presented in this report.
2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only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

30MHz - 1GHz- SWFT-SD14-BLK (Worst mode)

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	SWFT eScooter
Identification:	SWFT-SD14-BLK
Test Standard:	FCC Part 15C
Test Detail:	Radiated Emission
Operation Mode:	TX BDR M
Climate Condition:	22 ℃, 53 %, 101 kPa
Test Voltage/ Freq:	
Receipt No:	170386300
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Horizontal
Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: Janson Li 20241014

Reviewed by: Jacky Chen 20241015

TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
41.400000	16.2	1000.0	120.000	H	20.3	23.8	40.0
48.800000	16.5	1000.0	120.000	H	20.7	23.5	40.0
139.240000	16.5	1000.0	120.000	H	20.6	27.0	43.5
146.640000	17.2	1000.0	120.000	H	21.2	26.3	43.5
677.960000	36.3	1000.0	120.000	H	31.0	9.7	46.0
705.120000	37.7	1000.0	120.000	H	31.5	8.3	46.0

Tested by: Jason Li 20241014 Reviewed by: Jacky Chen 20241015

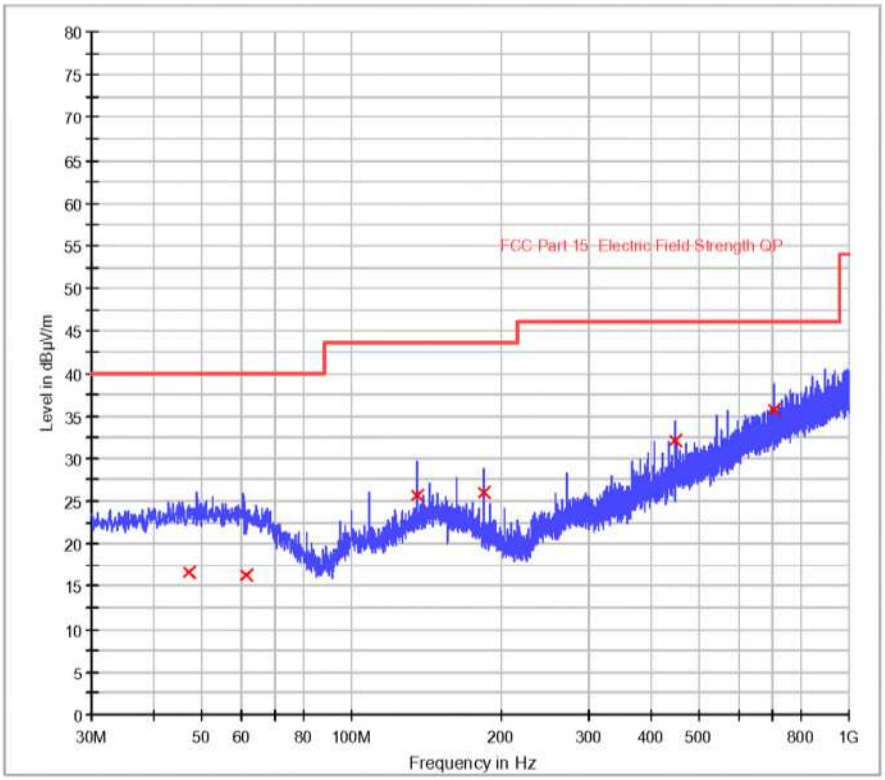
TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	SWFT eScooter
Identification:	SWFT-SD14-BLK
Test Standard:	FCC Part 15C
Test Detail:	Radiated Emission
Operation Mode:	TX BDR M
Climate Condition:	22 ℃, 53 %, 101 kPa
Test Voltage/ Freq:	
Receipt No:	170386300
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: Jason Li 20241014

Reviewed by: Jacky Chen 20241015

TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
46.960000	16.6	1000.0	120.000	V	20.8	23.4	40.0
61.280000	16.3	1000.0	120.000	V	20.0	23.7	40.0
135.480000	25.7	1000.0	120.000	V	20.1	17.8	43.5
184.360000	26.1	1000.0	120.000	V	19.2	17.4	43.5
447.480000	32.2	1000.0	120.000	V	26.5	13.8	46.0
705.120000	35.9	1000.0	120.000	V	31.5	10.1	46.0

Tested by: Jason Li 20241014

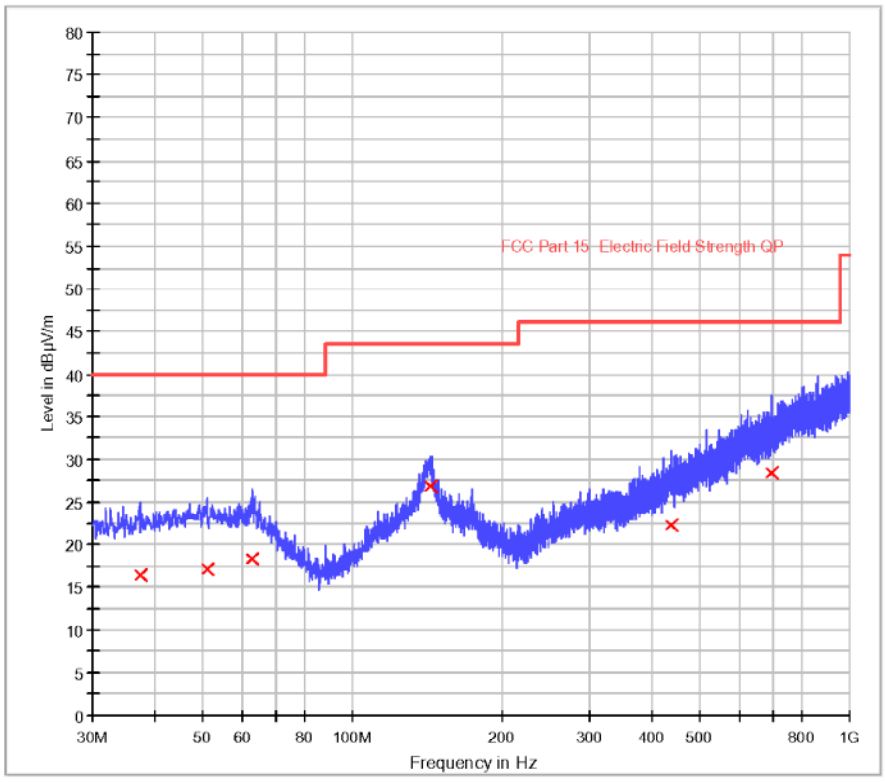
Reviewed by: Jacky Chen 20241015

30MHz - 1GHz-SWFT-XPRP-BLK(Worst mode)

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	SWFT eScooter
Identification:	SWFT-XPRP-BLK
Test Standard:	FCC Part 15C
Test Detail:	Radiated Emission TX
Operation Mode:	BT-BDR-M
Climate Condition:	22 ℃, 53 %, 101 kPa
Test Voltage/ Freq:	
Receipt No:	170386300
Report No:	/
Result:	Pass
Comment:	Test distance is 3m； Horizontal
Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: Cesare Qiao 202401128

Reviewed by: Jacky chen 20241129

TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

Limit and Margin

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Corr. (dB/m)	Margin - QPK (dB)	Limit - QPK (dBµV/m)
37.400000	16.4	1000.0	120.000	H	19.9	23.6	40.0
50.960000	17.1	1000.0	120.000	H	20.8	22.9	40.0
62.960000	18.4	1000.0	120.000	H	19.9	21.6	40.0
143.000000	26.9	1000.0	120.000	H	20.9	16.6	43.5
437.160000	22.2	1000.0	120.000	H	26.2	23.8	46.0
697.720000	28.5	1000.0	120.000	H	31.5	17.5	46.0

Tested by: Cesare Qiao 202401128 Reviewed by: Jacky chen 20241129

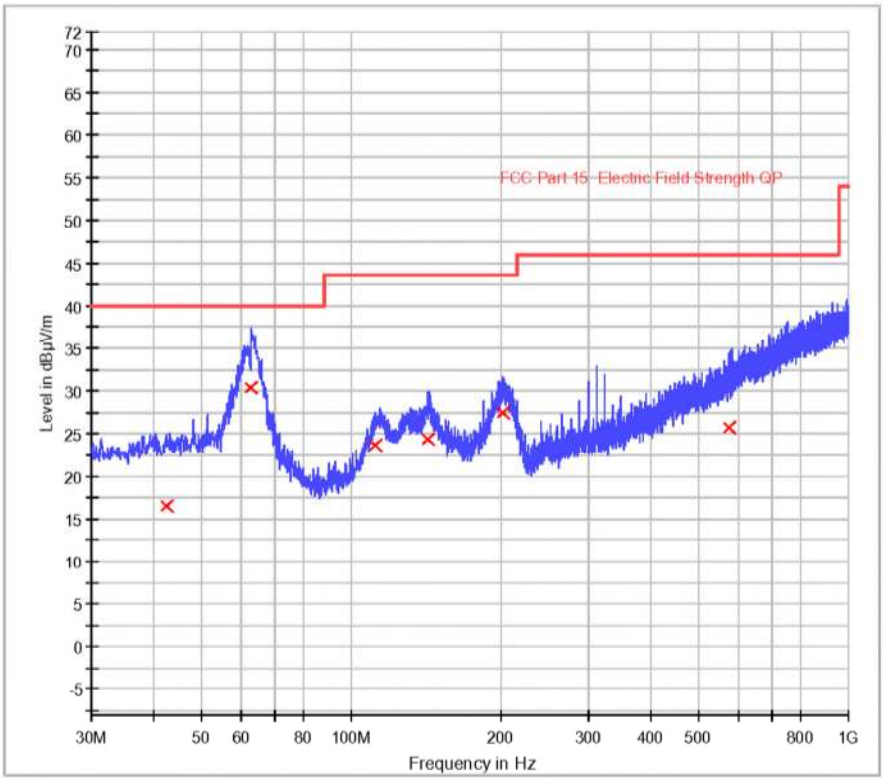
TUV Rheinland (Guangdong) Ltd. EMC Test Service Hotline: +86-20-28391188

EMC Test Record (Emission)

Common Information

Manufacturer:	
Test Item:	SWFT eScooter
Identification:	SWFT-XPRP-BLK
Test Standard:	FCC Part 15C
Test Detail:	Radiated Emission
Operation Mode:	TX BT-BDR-M
Climate Condition:	22 ℃, 53 %, 101 kPa
Test Voltage/ Freq:	
Receipt No:	170386300
Report No:	/
Result:	Pass
Comment:	Test distance is 3m; Vertical

Subrange 1	
Frequency range:	30-1000MHz
Receiver:	ESCI 3
Transducer:	VULB9168



Tested by: Cesare Qiao 202401128 Reviewed by: Jacky chen 20241129