



Test report No:

2610076R.702B

FCC TEST REPORT

Product Name	Insta360 Luna Ultra
Trademark	Insta360
Model and /or type reference	CINSABTA
FCC ID	2AWWH-CINSABTA
Applicant's name / address	Arashi Vision Inc. 11th Floor, Building 2, Jinlitong Financial Center, Bao'an District, 518000 Shenzhen, Guangdong, China
Test method requested, standard	47 CFR FCC Part 15 (Section 15.247) ANSI C63.10: 2020
Verdict Summary	IN COMPLIANCE
Tested By (name / position & signature)	Tim Cao / Project Manager 
Approved by (name / position & signature)	Frank He / Technical Manager 
Date of issue	2026-02-26
Report Version	V1.0
Report template No.	Template_FCC Part 15C-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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GENERAL CONDITIONS

Test Location	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Test Facility	A2LA (Certificate No. 3235.01) CNAS (Certificate No. L5313) FCC - Designation Number: CN1199 Test Firm Registration Number: 566524 ISED - CAB identifier: CN0040 IC#: 4075B
Date (receive sample)	Jan. 05, 2026
Date (start test)	Jan. 10, 2026
Date (finish test)	Feb. 09, 2026

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.
5. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, it is not necessary to account the uncertainty associated with the measurement result.

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2610076R.702B	V1.0	Initial issue of report.	2026-02-26

TEST SUMMARY

Requirement – Test Item	Standard(s)	Verdict	Remark
20dB Emission Bandwidth	FCC 15.247(a)(1)	PASS	Test data please refer to Appendix
Maximum conducted output power	FCC 15.247(b)(1)	PASS	Test data please refer to Appendix
Carrier Frequency Separation	FCC 15.247(a)(1)	PASS	Test data please refer to Appendix
Time of Occupancy (Dwell Time)	FCC 15.247(a)(1)(iii)	PASS	Test data please refer to Appendix
Number of Hopping Frequencies	FCC 15.247(a)(1)(iii)	PASS	Test data please refer to Appendix
Band edge measurements	FCC 15.247(d)	PASS	Test data please refer to Appendix
Conducted Spurious Emission	FCC 15.247(d) FCC 15.209	PASS	Test data please refer to Appendix
Duty Cycle	ANSI C63.10	PASS	Test data please refer to Appendix
Emissions in Restricted Bands	FCC 15.247(b)(3)	PASS	Test data please refer to Appendix
AC Power Line Conducted Emission	FCC 15.207	PASS	Test data please refer to Appendix
Antenna Requirement	FCC 15.203	PASS	---

USED EQUIPMENT

Conducted Test – TR8

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Wireless Connectivity Tester	R&S	CMW 270	102593	2025.05.10	2026.05.09
High and low temperature and fast	ASTUOD	ASTD-FBT-225K	N/A	2025.03.15	2026.03.14
Temperature/Humidity Meter	RTS	RTS-8S	RF08	2025.06.17	2026.06.16
MAX Signal Analyzer	Keysight	N9020B	MY59050482	2025.05.10	2026.05.09
RF Control Unit	Tonscend	JS0806-2	22G8060594	2025.12.07	2026.12.06
Vector Signal Generator	R&S	SMM 100A	101853	2025.09.20	2026.09.19
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	2025.05.10	2026.05.09
Test Software	Tonscend	TS1120	JS1120-3	N/A	N/A

Radiated Emission(9KHz-1GHz) / AC2

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Anechoic chamber	Quietek	9m*6m*6m	AC2	2024.07.07	2027.07.06
EMI Test Receiver	R&S	ESCI	100573	2025.12.07	2026.12.06
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2025.03.24	2026.03.23
Temperature/Humidity Meter	RTS	RTS-1909	THM-021	2025.04.30	2026.04.29
Dekra test software	Dekra	N/A	N/A	N/A	N/A

AC Power Line Conducted Emission / TR1

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding room	Quietek	4.9m*4m*3m	TR1	2023.03.04	2026.03.03
EMI Test Receiver	R&S	ESR7	102086	2025.12.07	2026.12.06
Two-Line V-Network	R&S	ENV216	101189	2025.05.10	2026.05.09
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2025.03.16	2026.03.15
Temperature/Humidity Meter	RTS	RTS-1909	THM-012	2025.04.30	2026.04.29
Dekra test software	Dekra	N/A	N/A	N/A	N/A

Radiated Emission Band Edge / AC5

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Anechoic chamber	Quietek	9m*6m*6m	AC5	2024.07.07	2027.07.06
DRG Horn Antenna	ETS-Lindgren	3117	167055	2025.08.14	2026.08.13
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	294	2025.06.22	2026.06.21
MXA Signal Analyzer	Keysight	N9020B	MY60112218	2025.09.20	2026.09.19
Pre-Amplifier	XH	LNA1845	LNA23040284	2025.05.17	2026.05.16
Pre-Amplifier	CY	EMC184045SE	980263	2025.05.10	2026.05.09
Filter Switch Box	MVE	MSW-F196	C070001S	2025.03.15	2026.03.14
Temperature/Humidity Meter	RTS	RTS-1909	THM-001	2025.08.22	2026.08.21
Temperature/Humidity Meter	RTS	RTS-1909	THM-024	2025.04.30	2026.04.29
Test Software	Tonscend	JS1120	JS36-RE	N/A	N/A

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

Test item Test Location	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.8 dB 150kHz~30MHz: 2.4 dB
Peak Power Output	± 1.3 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~200MHz: 3.5 dB 300MHz~1GHz: 3.6 dB Vertical: 30MHz~200MHz: 3.6 dB 300MHz~1GHz: 3.5 dB
Radiated Emission(1GHz~26.5GHz)	Horizontal: 1GHz~18GHz: 5.0 dB Vertical: 1GHz~18GHz: 4.8 dB Horizontal: 18GHz~26.5GHz: 5.3 dB Vertical: 18GHz~26.5GHz: 4.9 dB
RF antenna conducted test	± 1.3 dB
Carrier Frequency Separation	± 1.0 kHz
Number of Hopping Frequencies	± 1.0 kHz
Time of Occupancy (Dwell Time)	± 0.10 us
Radiated Emission Band Edge	± 3.9 dB
DTS Bandwidth	± 1.0 kHz
Occupied Bandwidth	± 1.0 kHz
Power Density	± 1.3 dB

1 GENERAL INFORMATION

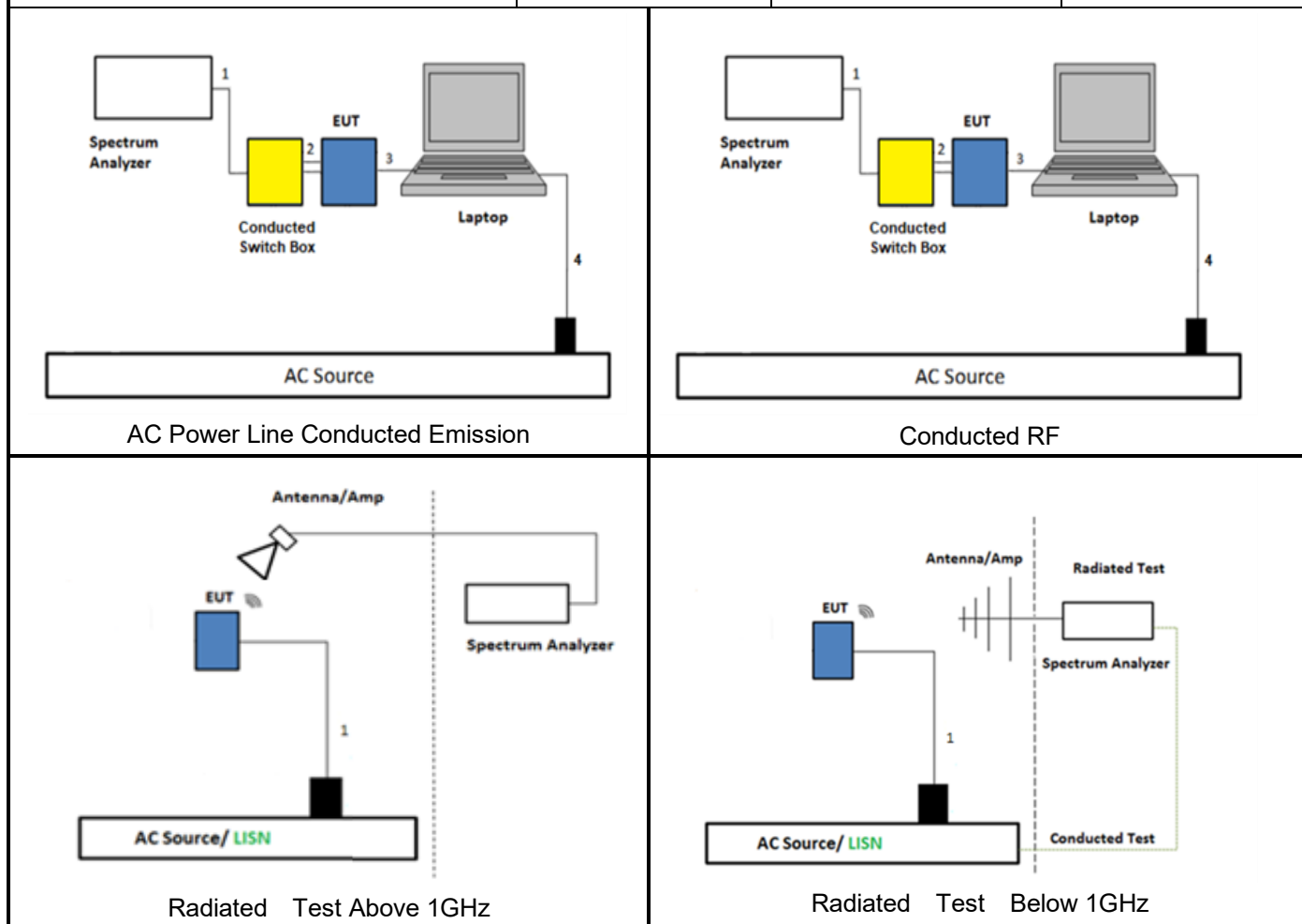
Product Name	Insta360 Luna Ultra	
Model No.	CINSABTA	
Trademark.....	Insta360	
FCC ID.....	2AWWH-CINSABTA	
Hardware Version.....	V10	
Software Version.....	V1.2.51	
Manufacturer	Arashi Vision Inc.	
Manufacturer Address	11th Floor, Building 2, Jinlitong Financial Center, Bao'an District, 518000 Shenzhen, Guangdong, China	
Power Supply	3.85 Vdc, EUT is equipped with an adapter to power it via AC/DC.	
SN	RF Conducted	Z03LJA251200426
	RSE	Z03LJA251200353
Wireless specifiction.....	Bluetooth	
Operating frequency range(s).....	2402~2480MHz	
Type of modulation.....	GFSK	
Number of channels	79	
Data Rate.....	GFSK 1Mbit/s, Pi/4 DQPSK 1Mbit/s, 8DPSK 3Mbit/s	
Antenna type.....	FPC	
Antenna Gain	0.64 dBi	
Remark:		
1. As above information is provided and confirmed by the applicant. DEKRA is not liable to the accuracy, suitability, reliability or/and integrity of the information.		
2. The EUT is equipped with two batteries from different brands; only the manufacturers are different, everything else is identical, and the report only reflects data from the worst-performing battery.		

Power setting in test

Mode	Power setting
BR / EDR	Default

2 DESCRIPTION OF TEST SETUP

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) Notebook	Think pad x220	Lenovo	Adapter
(2) Ethernet cable	N/A	N/A	N/A
(3) Ethernet cable	N/A	N/A	N/A
Software	Type / Version	Manufacturer	Supplied by
ADB	N/A	N/A	N/A



Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2) Ethernet cable	1	☒	☒
(3) Ethernet cable	8	☒	☒

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
FCC CFR Title 47 Part 15 Subpart C Section 15.247	2020	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10	2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
KDB 558074	2019	Test procedures for measuring Digital Transmission System.

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.

(Please define the deviations from the standard(s) if applicable)

4 TEST RESULTS

4.1 AC Power Line Conducted Emission

VERDICT: PASS

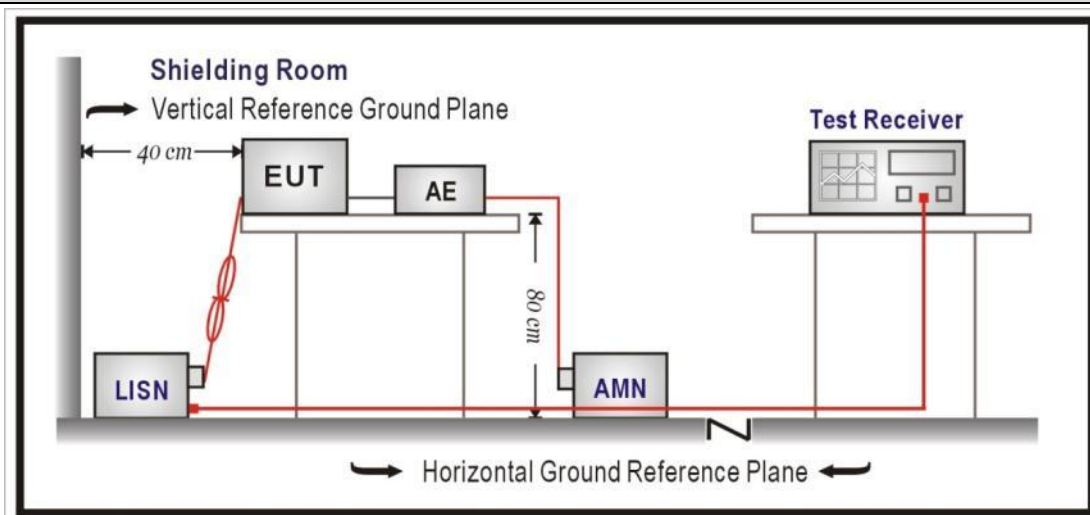
4.1.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207	
Frequency range [MHz]	Limit: QP [dB(μV) ¹⁾]	Limit: AV [dB(μV) ¹⁾]
0,15 - 0,50	66 - 56 ²⁾	56 - 46 ²⁾
0,50 - 5,0	56	46
5,0 - 30	60	50

¹⁾ At the transition frequency, the lower limit applies.

²⁾ The limit decreases linearly with the logarithm of the frequency.

4.1.2 Test Setup



4.1.3 Test Procedure

	References Rule	Chapter	Item
☒	ANSI C63.10	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.2 Emissions in restricted frequency bands**VERDICT: PASS****4.2.1 Limit****Standard** FCC Part 15 Subpart C Paragraph 15.205; 15.209

Restricted Bands of operation for FCC

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4	3600 – 4400	Above 38.6
13.36 – 13.41	--	--	--

Restricted Band Emissions Limit

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

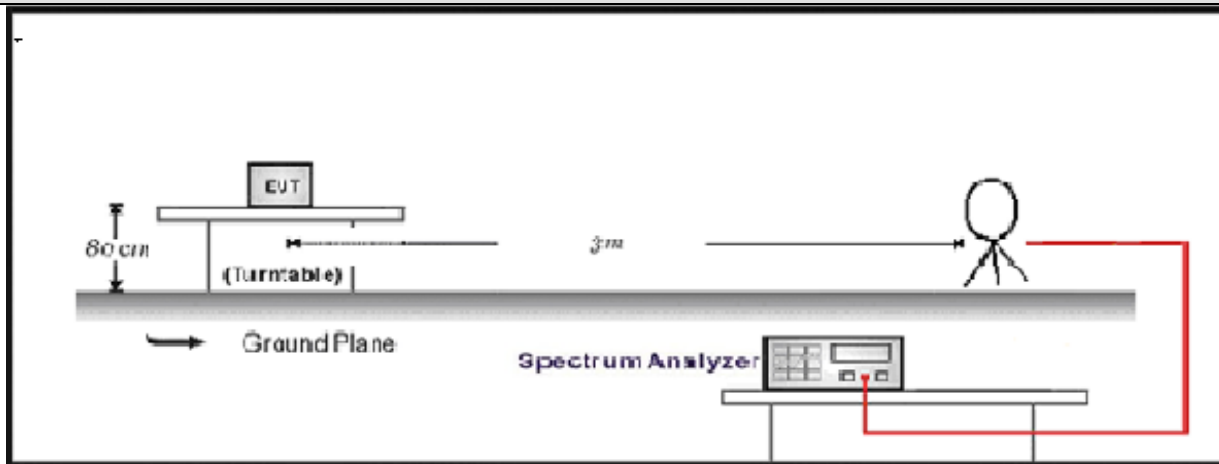
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment. Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation

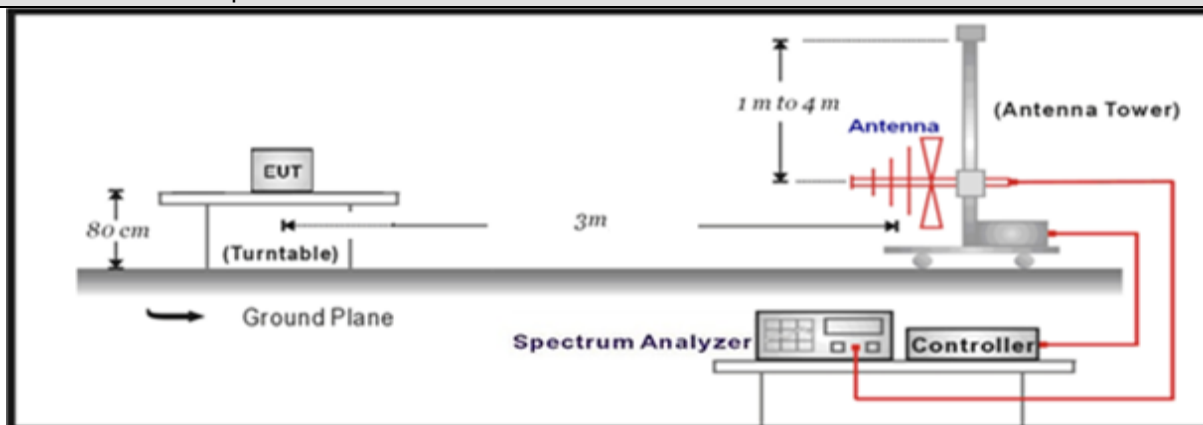
factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.2.2 Test Setup

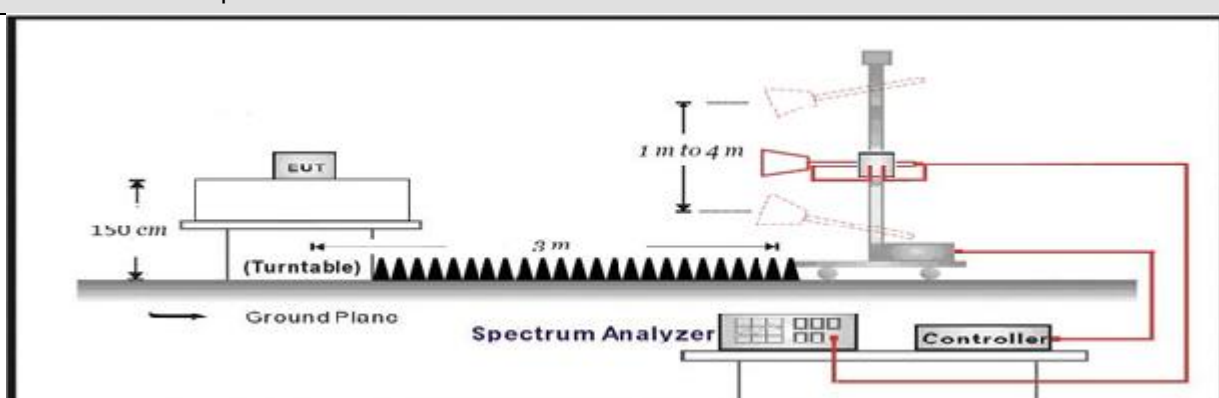
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.2.3 Test Procedure

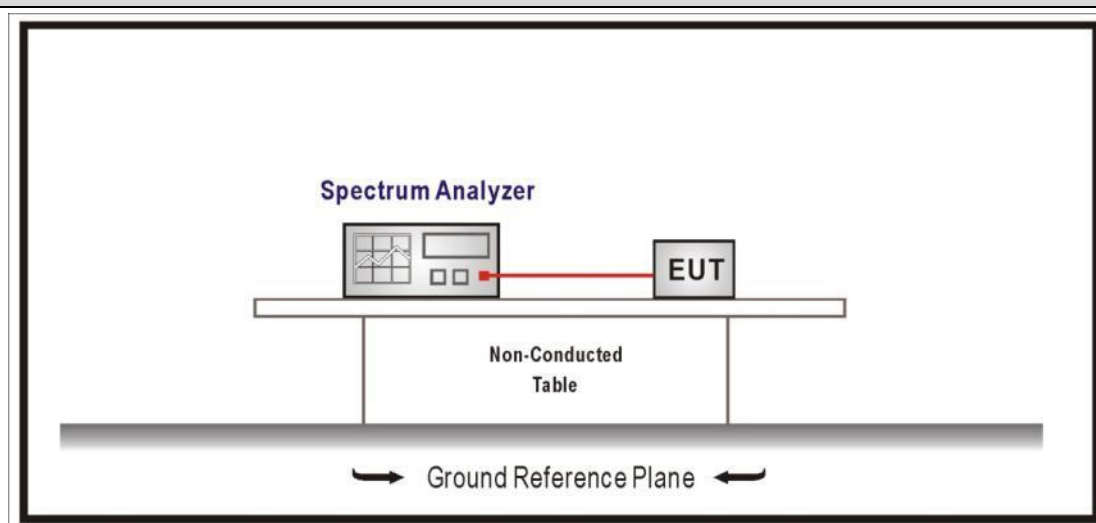
	References Rule		Chapter	Description
☒	ANSI C63.10		11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10	11.12.1	Radiated emission measurements
	☒	ANSI C63.10	6.3	Radiated spurious emission test
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.3 Emissions in non-restricted frequency band**VERDICT: PASS****4.3.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.247(d)
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30dBc(Note1)
RF Output power(PK detector)	20dBc(Note2)

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

4.3.2 Test Setup**4.3.3 Test Procedure**

References Rule	Chapter	Description
☒ ANSI C63.10	7.8.7	Conducted spurious emissions test methodology
☒ ANSI C63.10	7.8.7.1	General
☒ ANSI C63.10	7.8.7.2	Band-edges

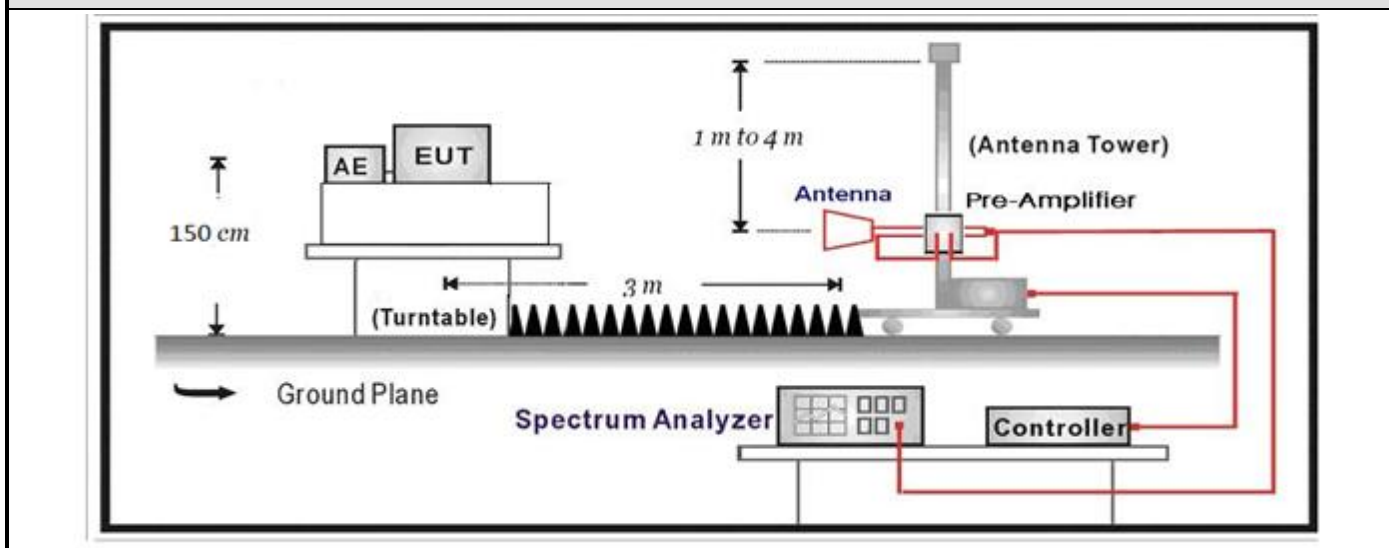
4.4 Radiated Emission Band Edge**VERDICT: PASS****4.4.1 Limit**

Standard		FCC Part 15 Subpart C Paragraph 15.247(d) , 15.205, 15.209		
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

4.4.2 Test Setup

Above 1GHz Test Setup:

**4.4.3 Test Procedure**

	References Rule	Chapter	Description
☒	ANSI C63.10	7.8.8	Band-edge testing

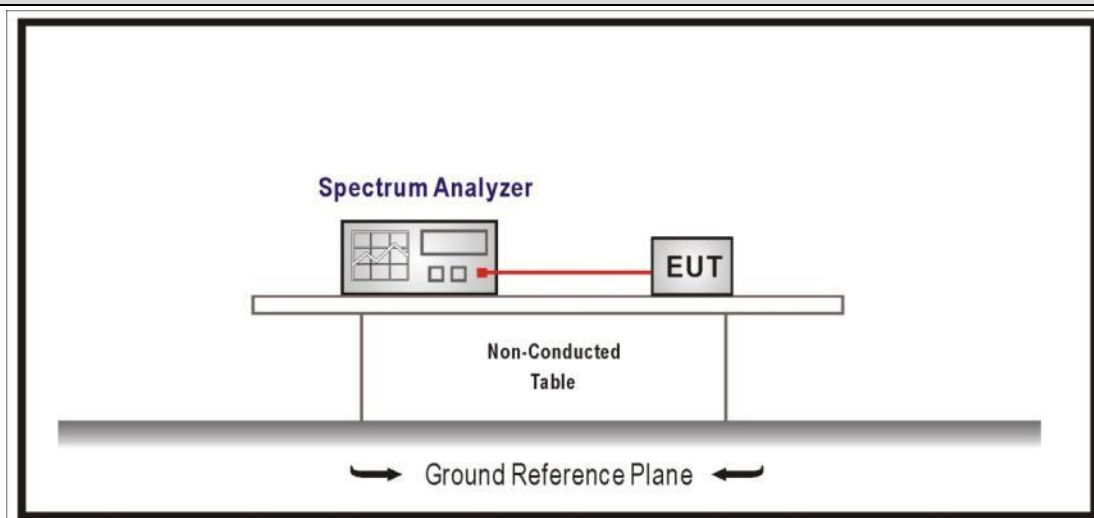
4.5 20dB Emission Bandwidth**VERDICT: PASS****4.5.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.247 (a)(2)
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Systems using digital modulation techniques operate in the 2400-2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz

Standard	ANSI C63.10 Paragraph 6.7
-----------------	---------------------------

The occupied bandwidth or the "99% emission bandwidth" is defined as the frequency range between two points, one above and the other below the carrier frequency, within which 99% of the total transmitted power of the fundamental transmitted emission is contained. The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs. The occupied bandwidth should be within the required frequency range.

4.5.2 Test Setup**4.5.3 Test Procedure**

	Reference Rule	Chapter	Description
☒	ANSI C63.10	7.8.6	Occupied bandwidth

4.6 Fundamental emission output power**VERDICT: PASS****4.6.1 Limit****Standard**

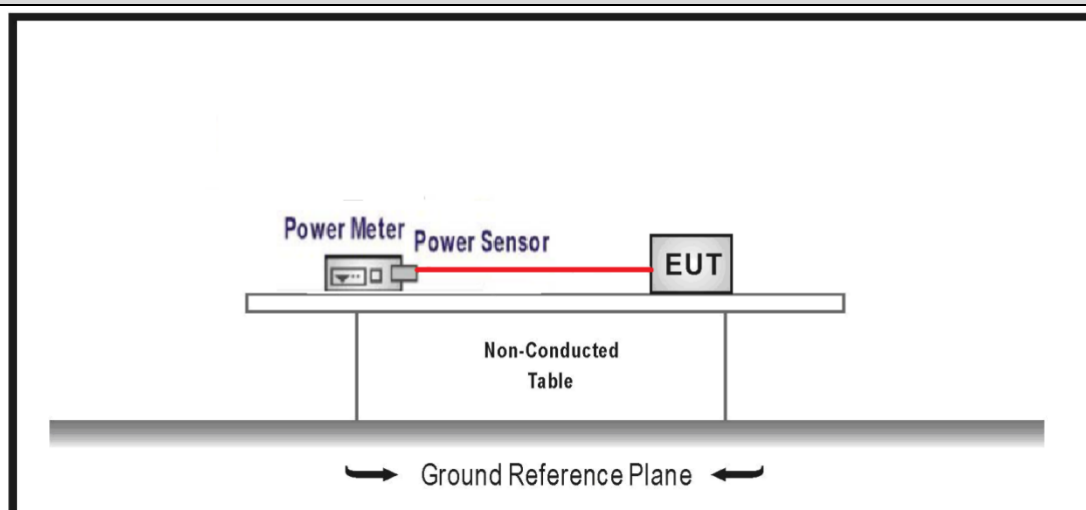
FCC Part 15 Subpart C Paragraph 15.247 (b)(3)

Frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

Note 1 : GTX directional gain of transmitting antennas.

Note 2 : Pout is maximum conducted output power .

4.6.2 Test Setup**4.6.3 Test Procedure**

	References Rule		Chapter	Description
☒	ANSI C63.10		7.8	Fundamental emission output power
☒	ANSI C63.10		7.8.5	Output power test procedure for frequency-hopping spread-spectrum (FHSS) devices

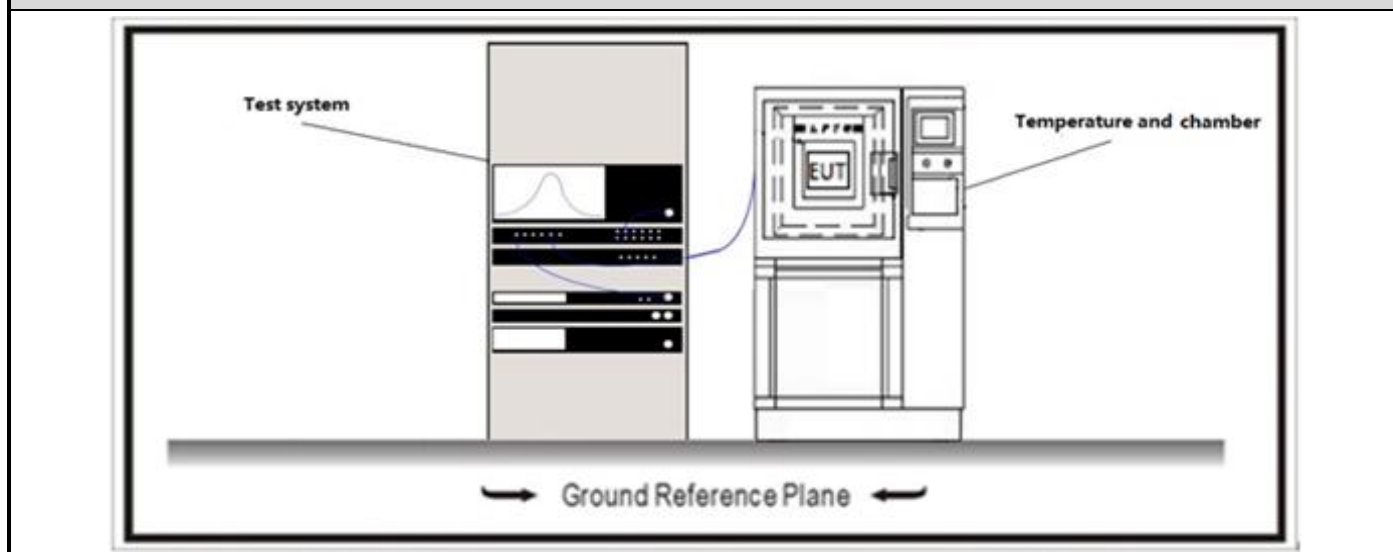
4.8 Carrier Frequency Separation

VERDICT: PASS

4.8.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(a);
☐	Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.
☒	Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel.
☐	The 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period;
☐	The 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.
☐	Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz.

4.8.2 Test Setup

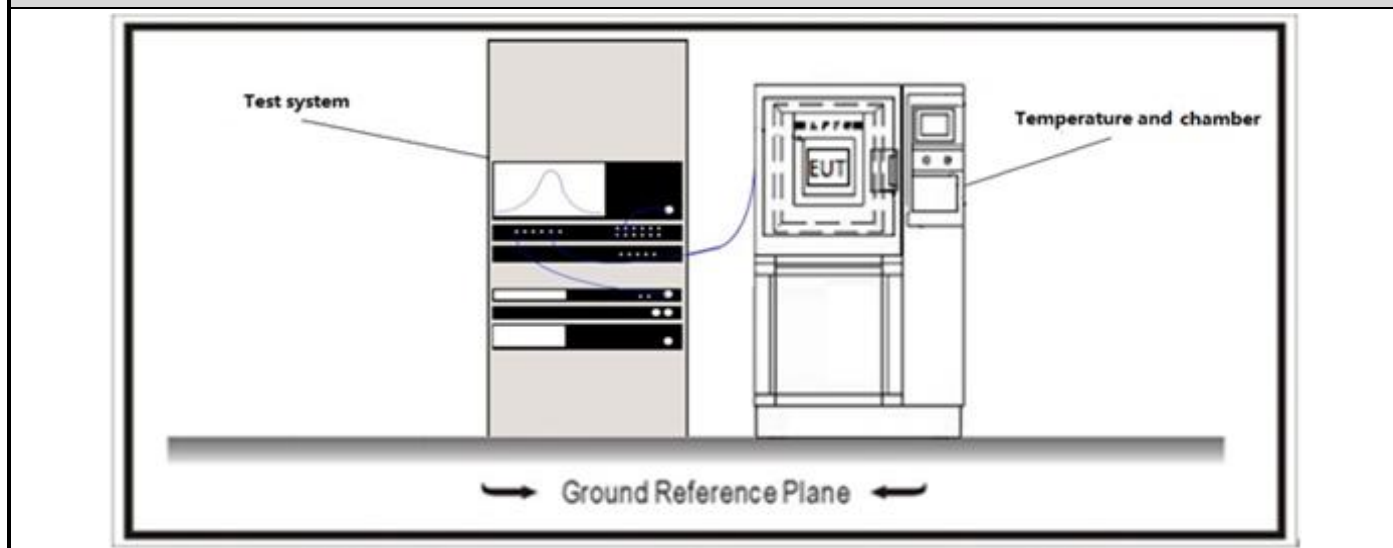


4.9.3 Test Procedure

References Rule	Chapter	Description
☒ ANSI C63.10	7.8	Evaluation of frequency-hopping device parameters
☒ ANSI C63.10	7.8.2	Carrier frequency separation

4.9 Time of Occupancy**VERDICT: PASS****4.9.1 Limit**

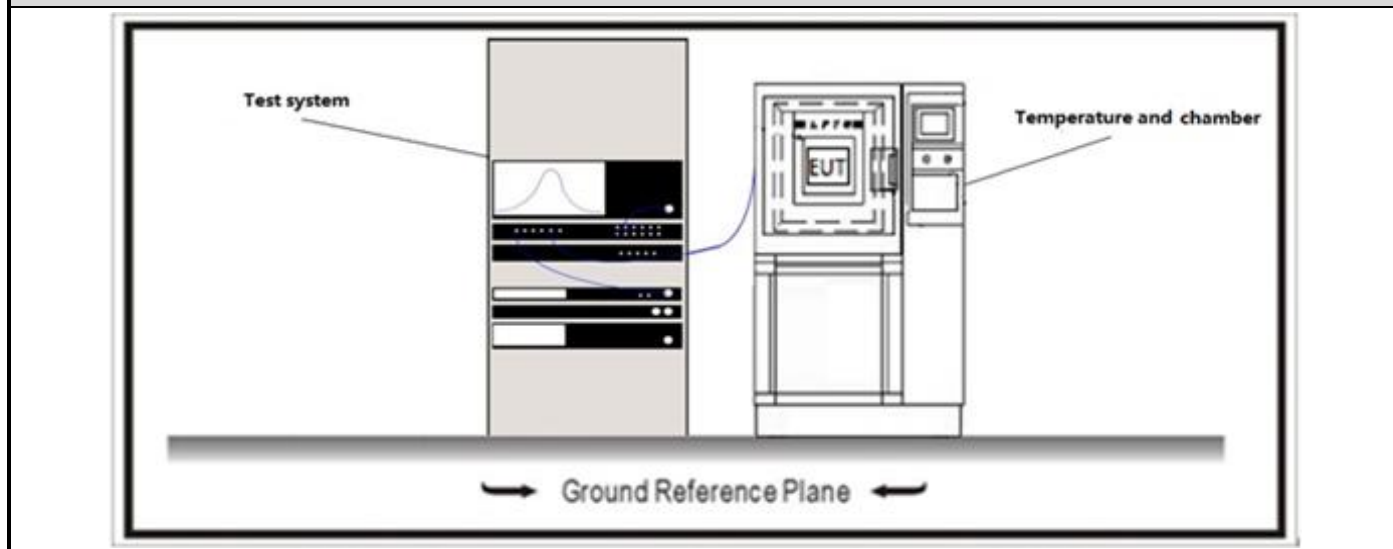
Standard	FCC Part 15 Subpart C Paragraph 15.247(a);
☒	Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed.
☐	For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period
☐	For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.
☐	Frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies. The maximum 20 dB bandwidth of the hopping channel is 1 MHz. The average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 30 second period.

4.9.2 Test Setup**4.9.3 Test Procedure**

References Rule	Chapter	Description
☒ ANSI C63.10	7.8	Evaluation of frequency-hopping device parameters
☒ ANSI C63.10	7.8.4	Time of occupancy (dwell time)

4.10 Number of hopping Frequencies**VERDICT: PASS****4.10.1 Limit**

Standard	FCC Part 15 Subpart C Paragraph 15.247(a);
☒	For frequency hopping systems operating in the 2400-2483.5 MHz band shall use at least 15 hopping frequencies.
☐	For frequency hopping systems operating in 902-928 MHz band, if the 20 dB bandwidth of the hopping channel is less than 250 kHz, shall use at least 50 hopping frequencies.
☐	For frequency hopping systems operating in 902-928 MHz band, if the 20 dB bandwidth of the hopping channel is higher than 250 kHz, shall use at least 25 hopping frequencies.
☐	For frequency hopping systems operating in the 5725-5850 MHz band shall use at least 75 hopping frequencies.

4.10.2 Test Setup**4.10.3 Test Procedure**

References Rule	Chapter	Description
☒ ANSI C63.10	7.8.	Evaluation of frequency-hopping device parameters
☒ ANSI C63.10	7.8.3	Number of Hopping Frequencies

4.11 Antenna Requirement**VERDICT: PASS****4.11.1 Limit:****Standard**

FCC Part 15 Subpart C Paragraph 15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.11.2 Antenna Connector Construction:

- | | |
|-------------------------------------|--|
| ☒ | The use of a permanently attached antenna |
| ☐ | The antenna use of a unique coupling to the intentional radiator |
| ☐ | The use of a nonstandard antenna jack or electrical connector |

Please refer to the attached document "Internal Photograph" to show the antenna connector.

5 TEST SETUP PHOTO AND EUT PHOTO

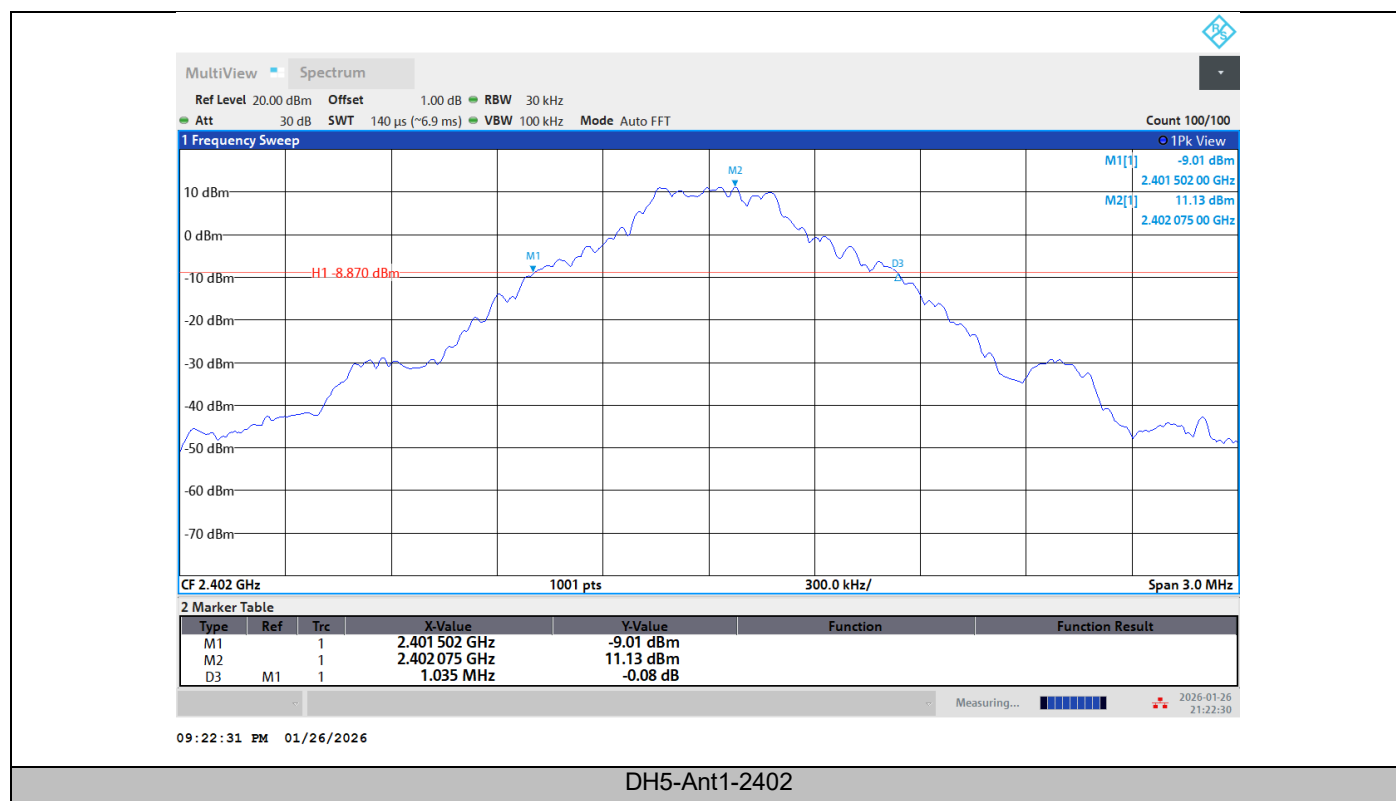
Remark: The test setup photo and EUT Photo please see appendix.

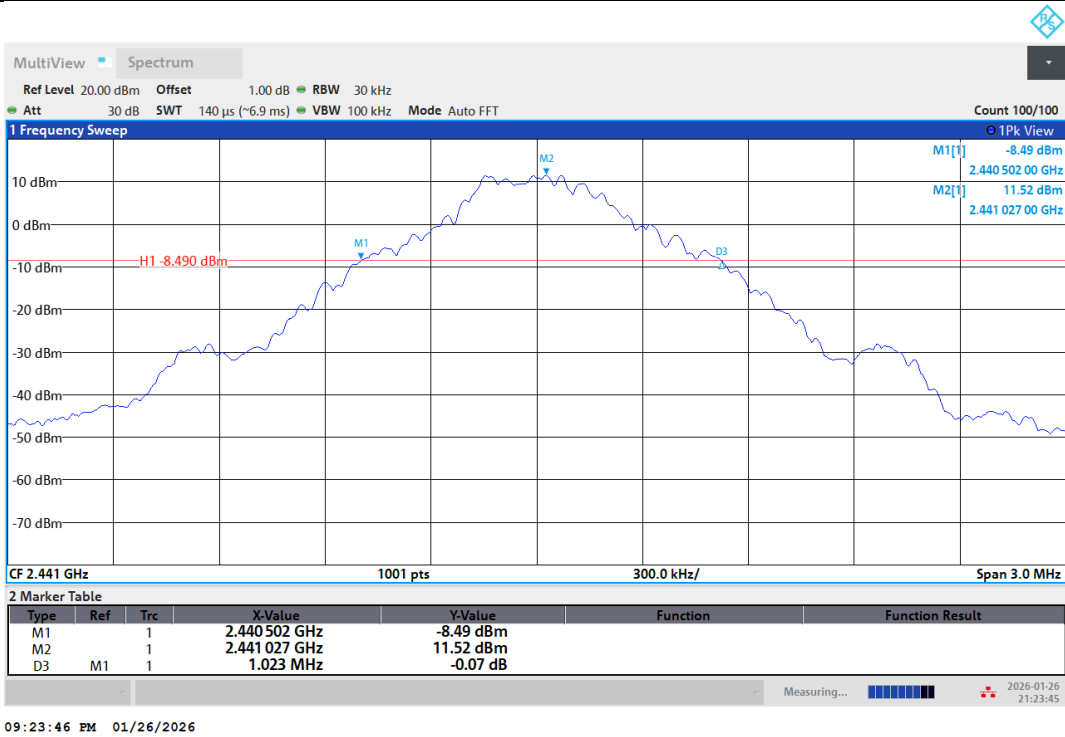
20dB Emission Bandwidth

20dB Emission Bandwidth:

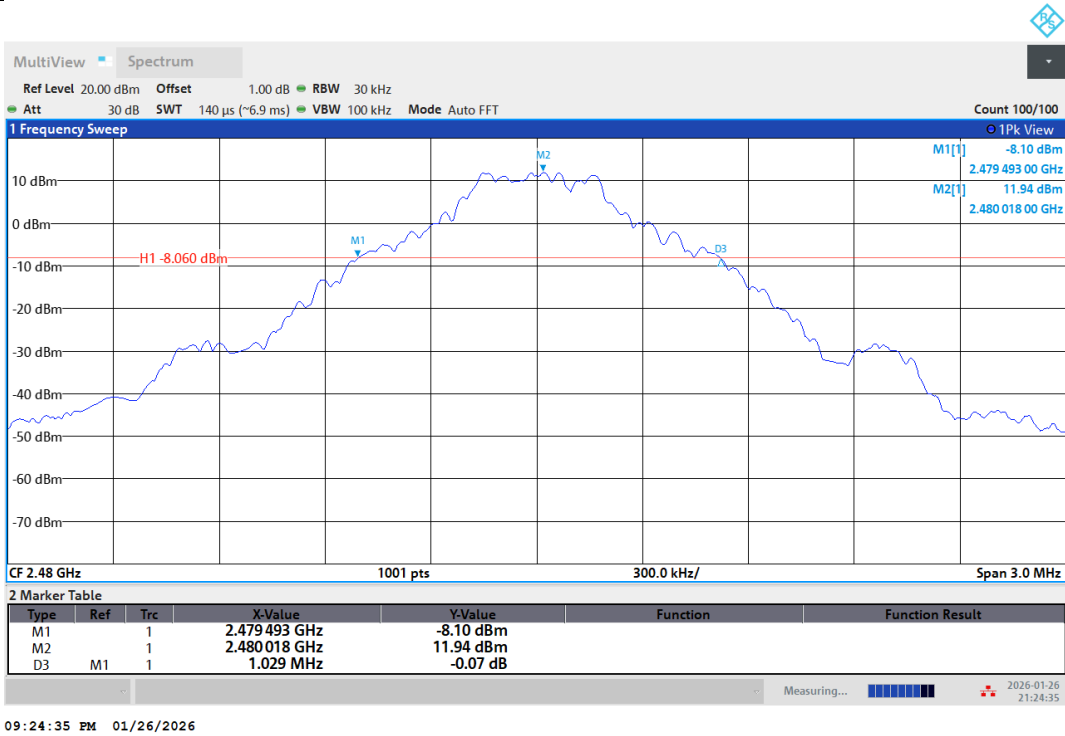
TestMode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	1.03	2401.50	2402.54	---	---
		2441	1.02	2440.50	2441.53	---	---
		2480	1.03	2479.49	2480.52	---	---
2DH5	Ant1	2402	1.35	2401.34	2402.69	---	---
		2441	1.34	2440.34	2441.68	---	---
		2480	1.34	2479.33	2480.68	---	---
3DH5	Ant1	2402	1.34	2401.35	2402.68	---	---
		2441	1.34	2440.34	2441.68	---	---
		2480	1.34	2479.33	2480.67	---	---

Test Graphs

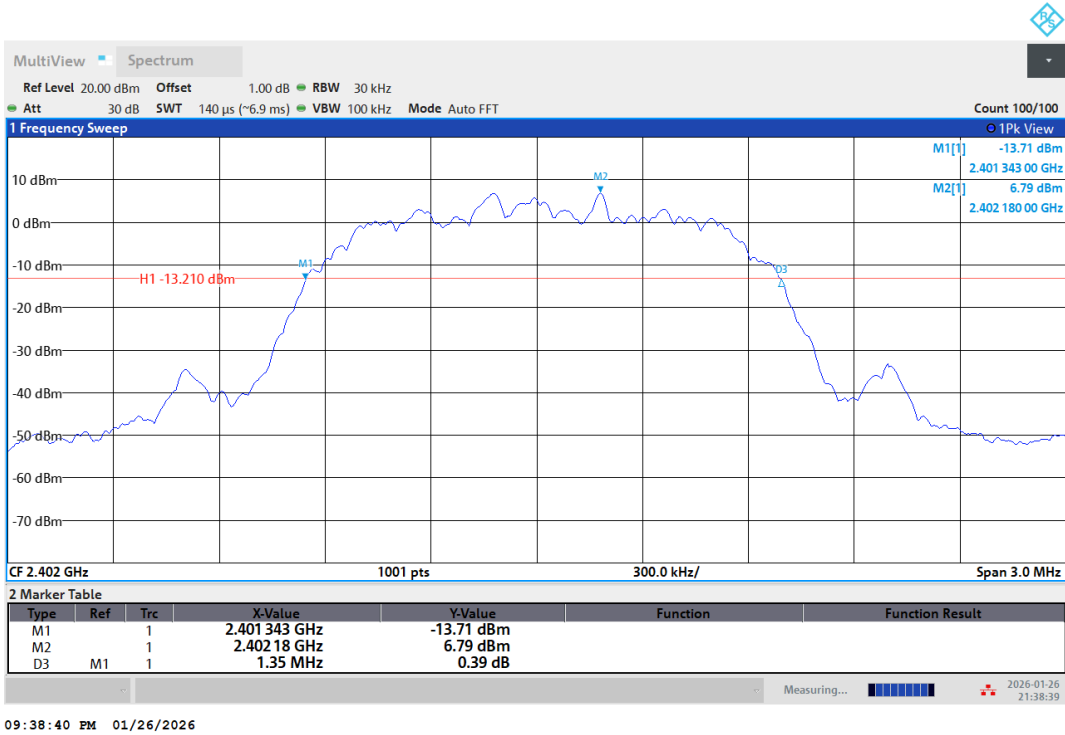




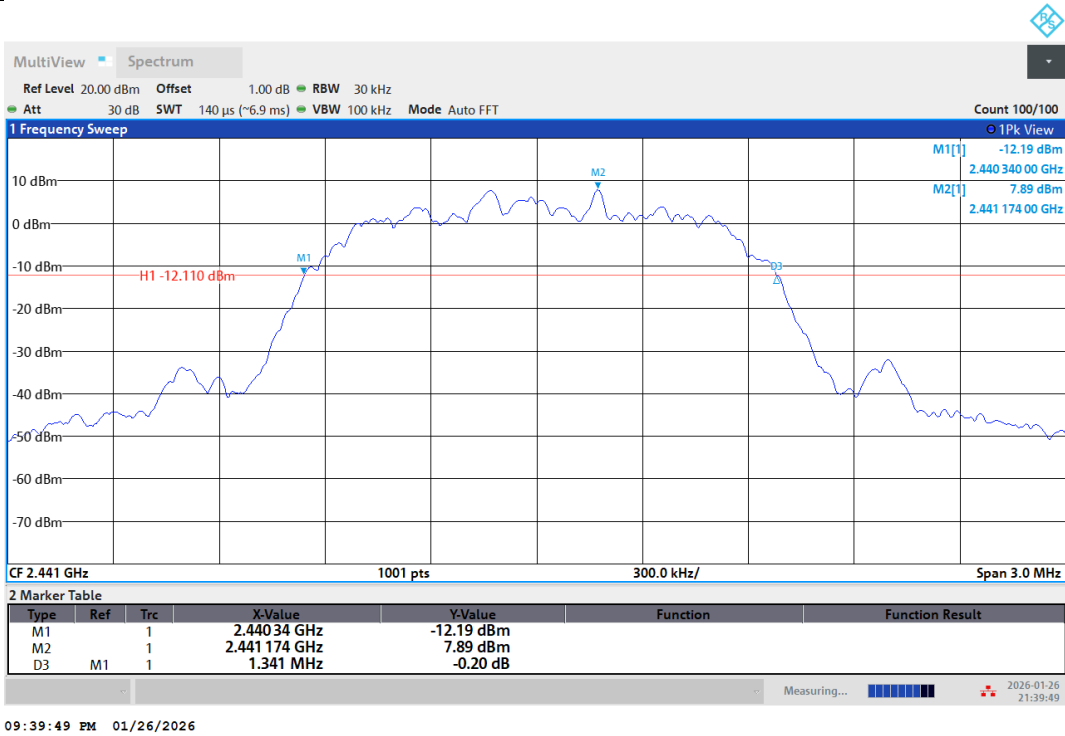
DH5-Ant1-2441



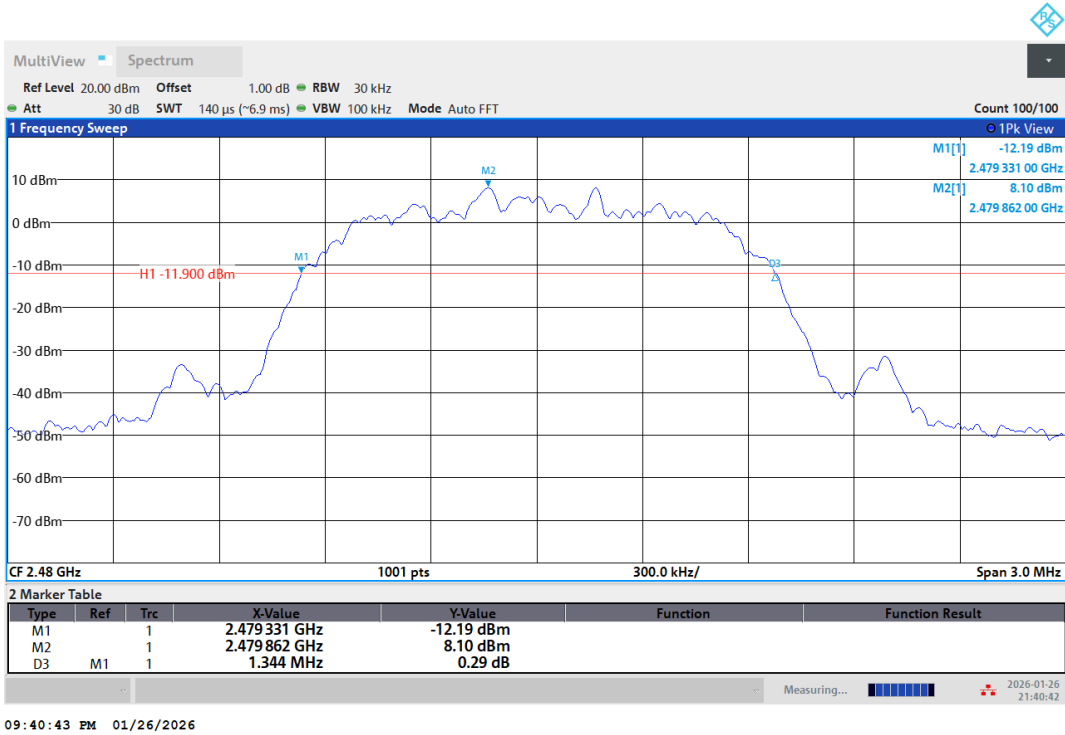
DH5-Ant1-2480



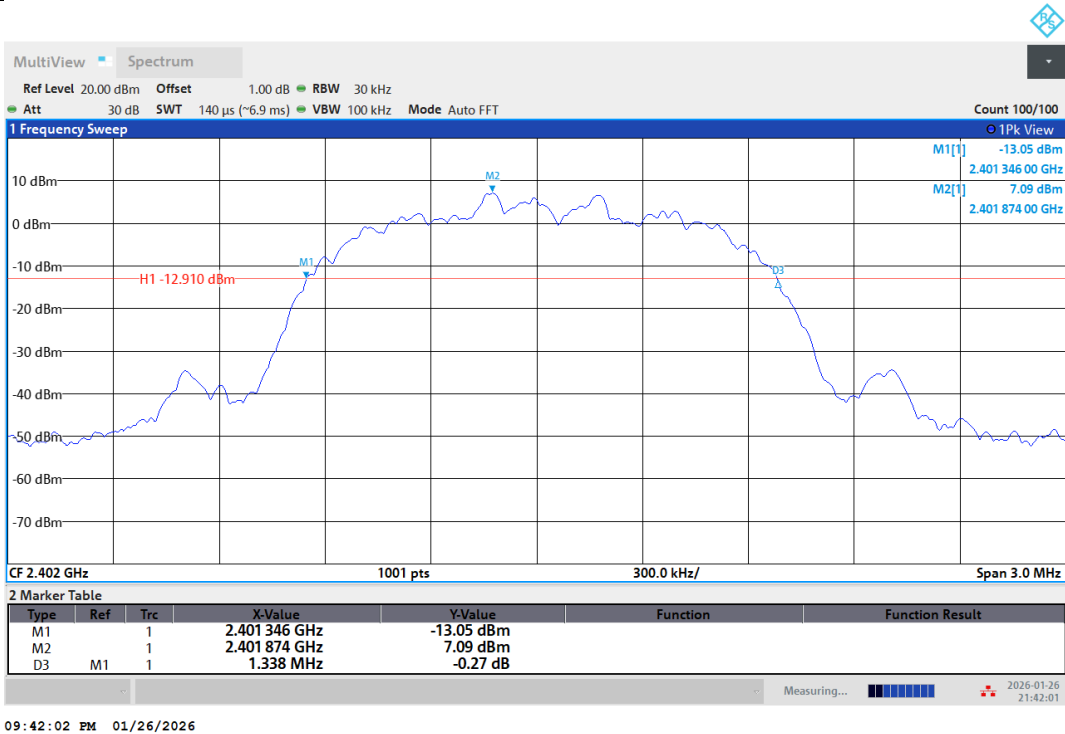
2DH5-Ant1-2402



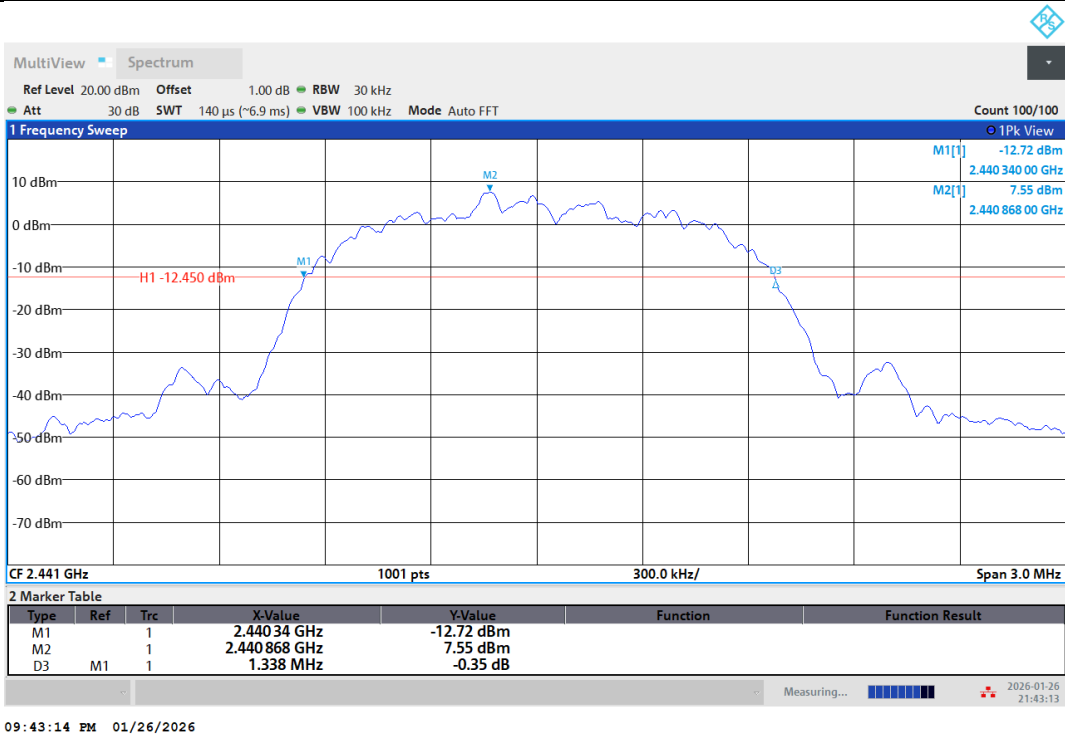
2DH5-Ant1-2441



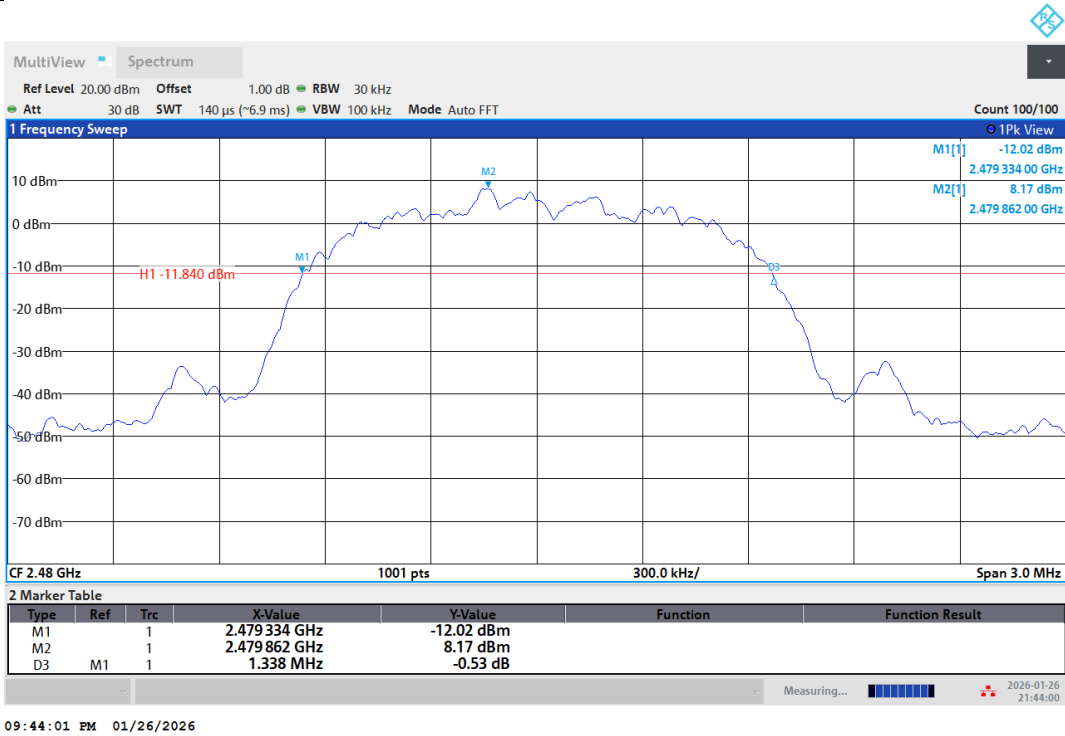
2DH5-Ant1-2480



3DH5-Ant1-2402



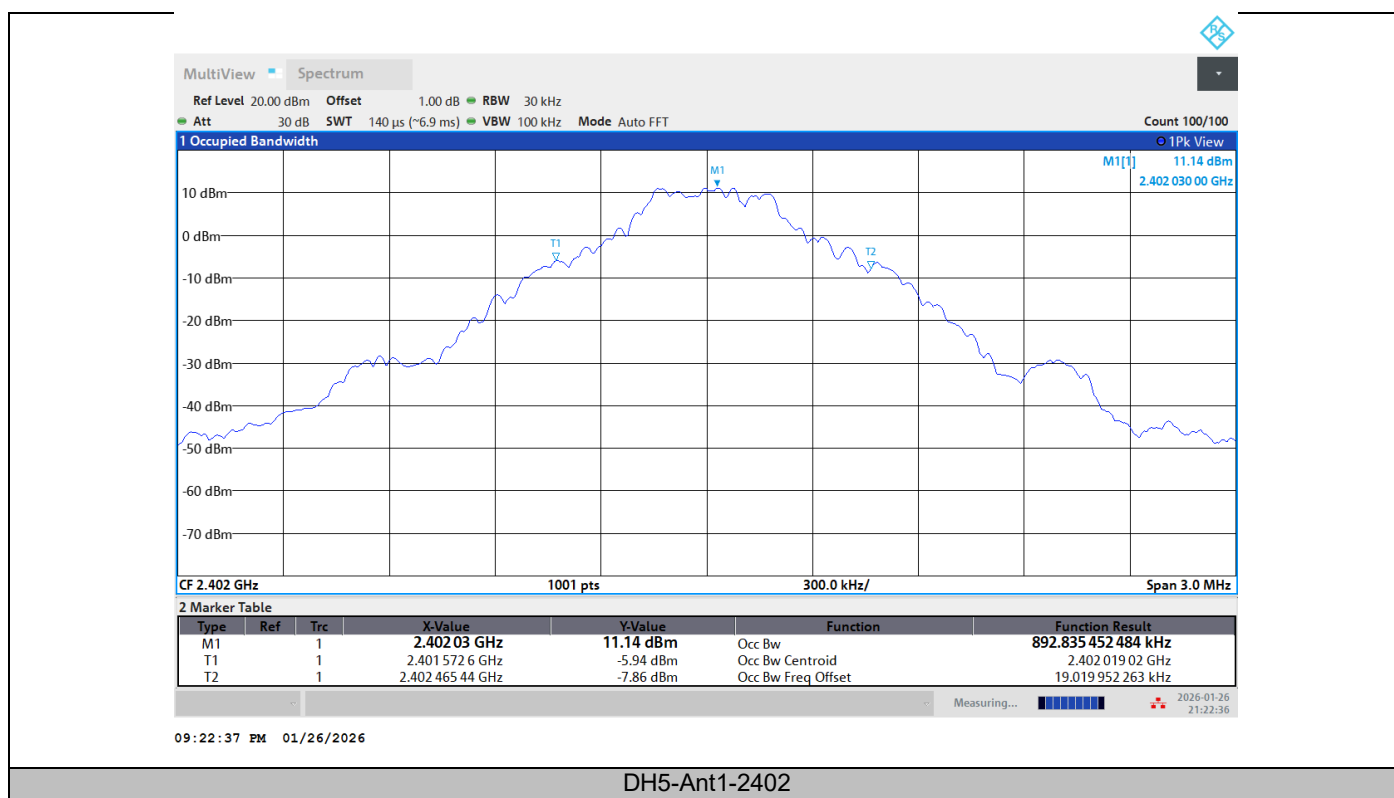
3DH5-Ant1-2441

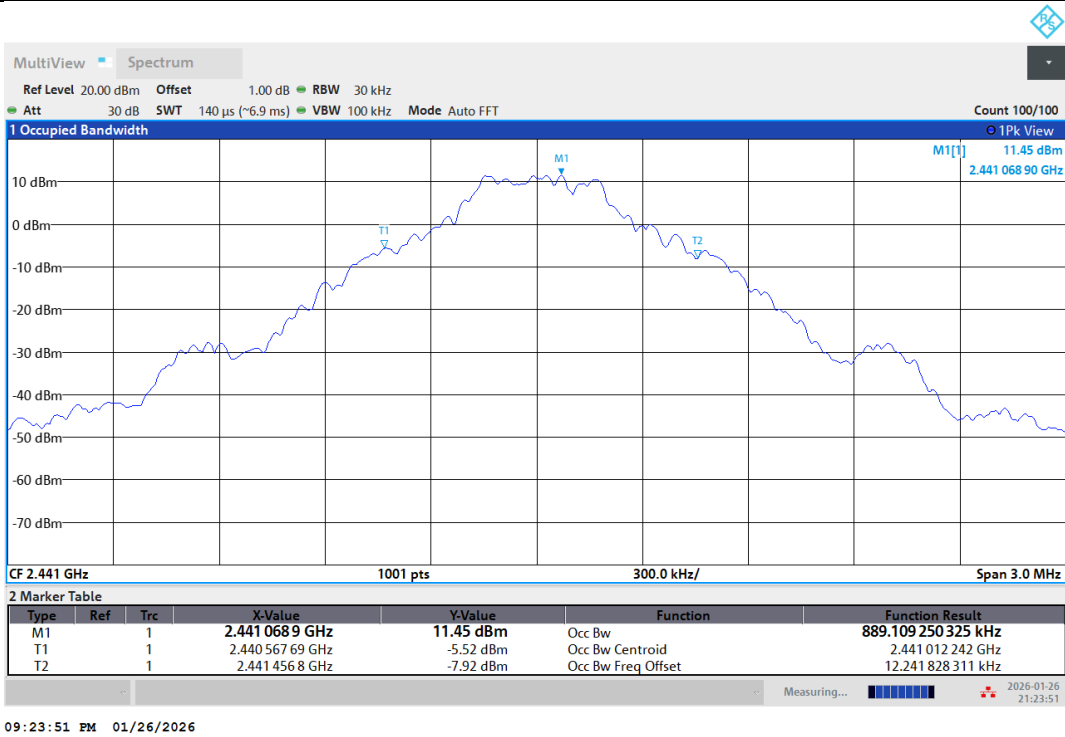


3DH5-Ant1-2480

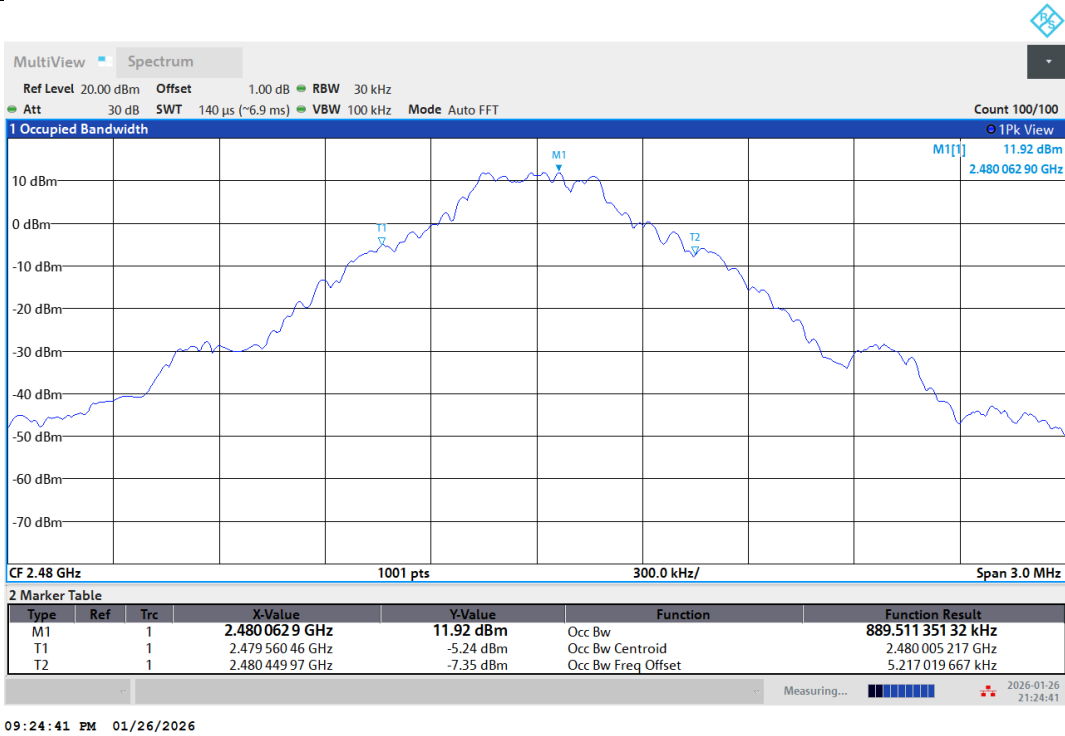
99% Occupied bandwidth:

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.89284	2401.5726	2402.4654	---	---
		2441	0.88911	2440.5677	2441.4568	---	---
		2480	0.88951	2479.5605	2480.4500	---	---
2DH5	Ant1	2402	1.1904	2401.4247	2402.6151	---	---
		2441	1.1936	2440.4167	2441.6103	---	---
		2480	1.1916	2479.4111	2480.6027	---	---
3DH5	Ant1	2402	1.1922	2401.4228	2402.6150	---	---
		2441	1.1930	2440.4156	2441.6086	---	---
		2480	1.1921	2479.4101	2480.6022	---	---

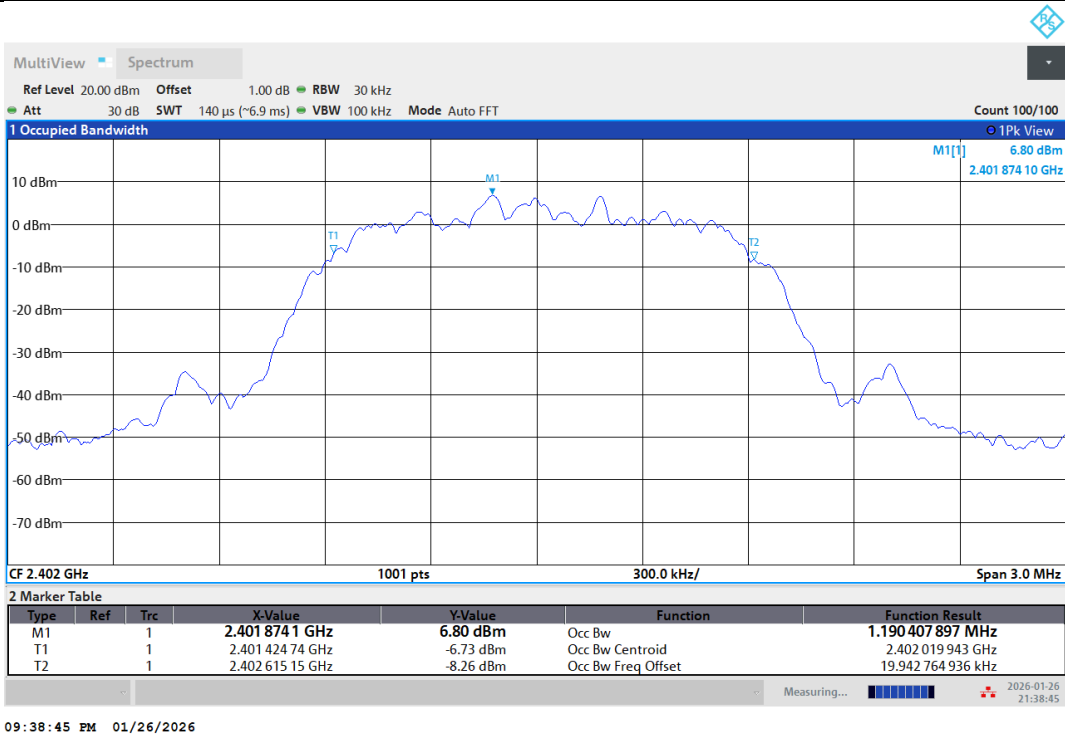
Test Graphs



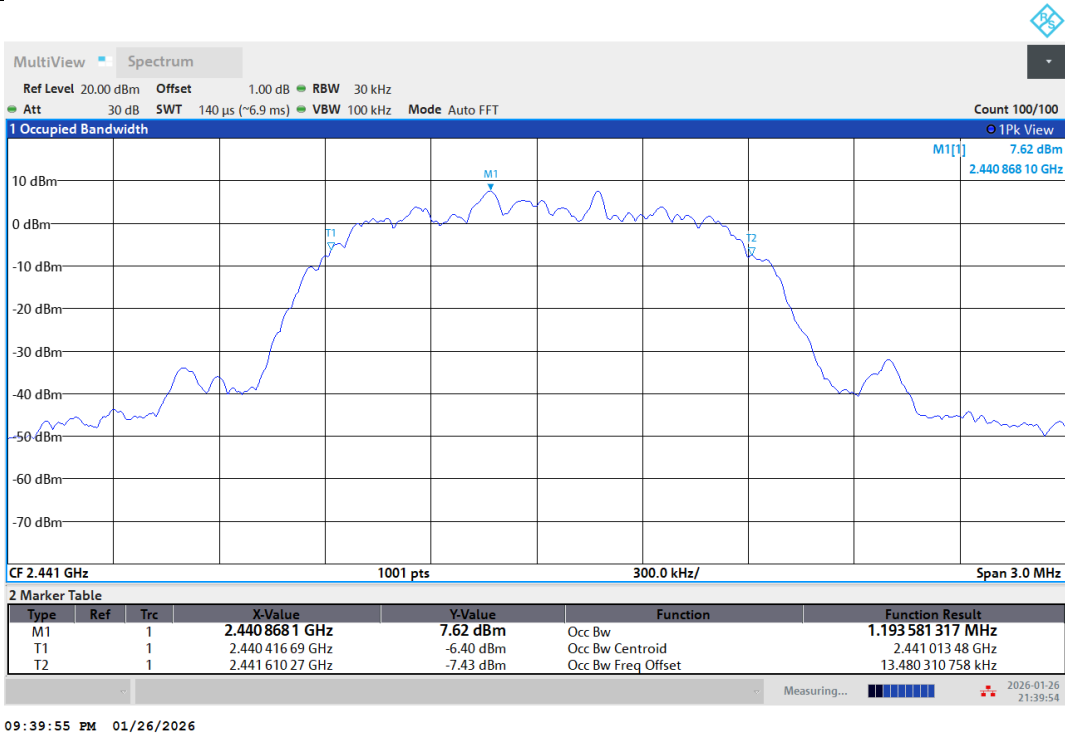
DH5-Ant1-2441



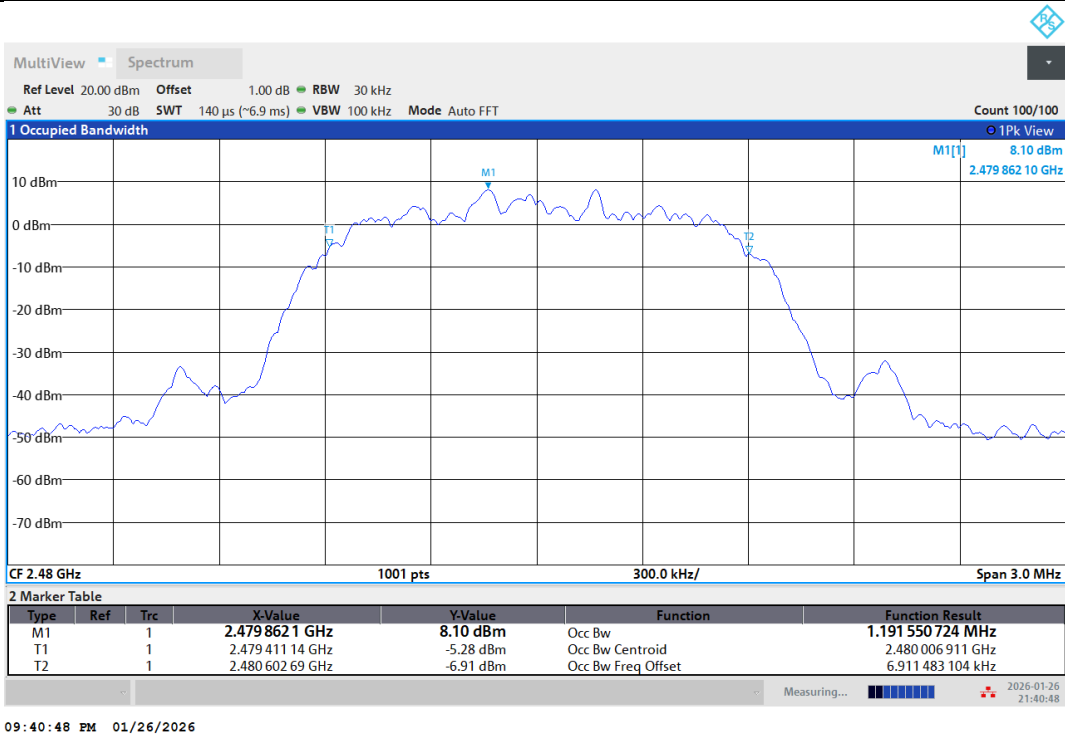
DH5-Ant1-2480



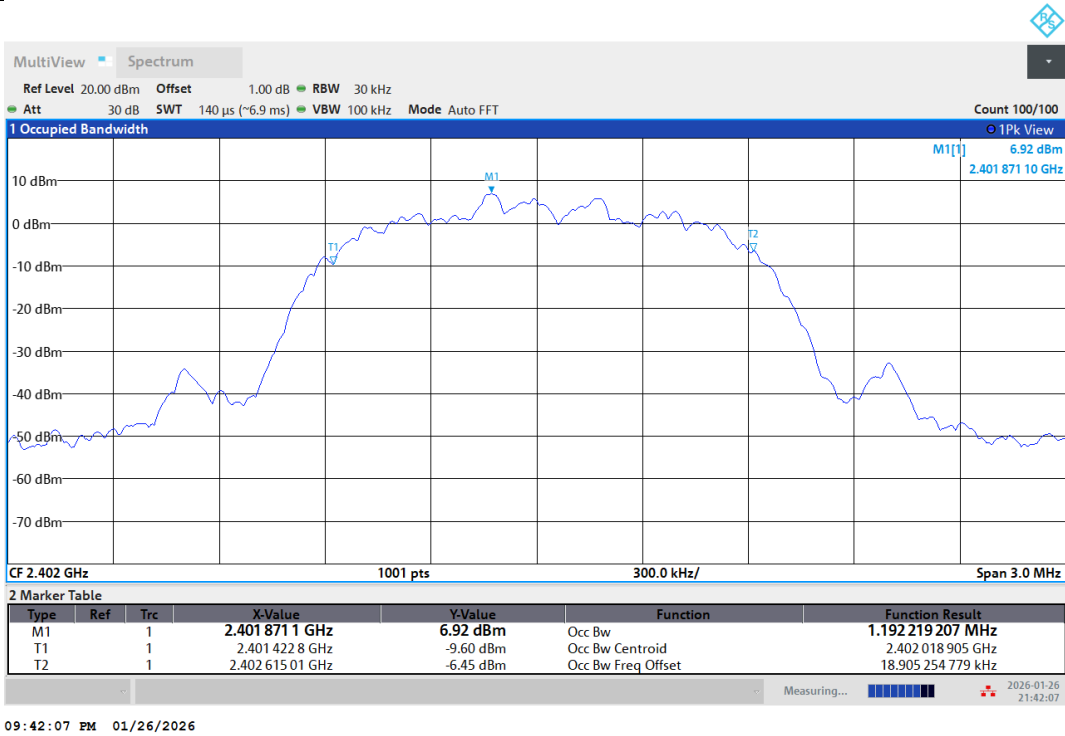
2DH5-Ant1-2402



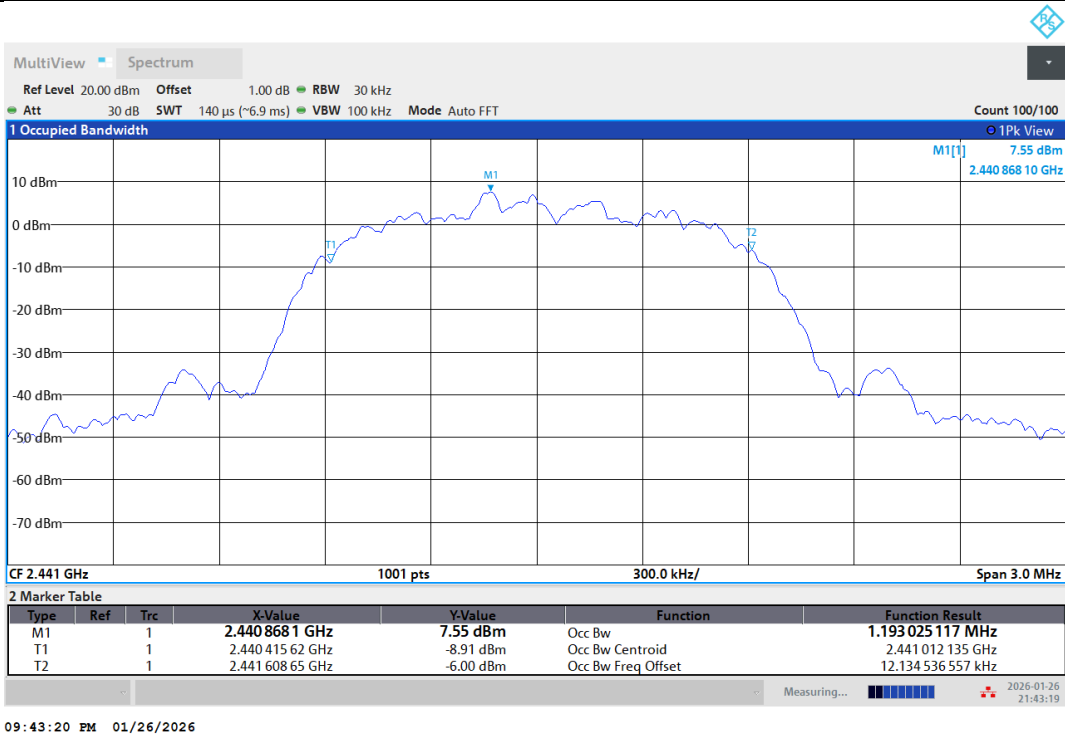
2DH5-Ant1-2441



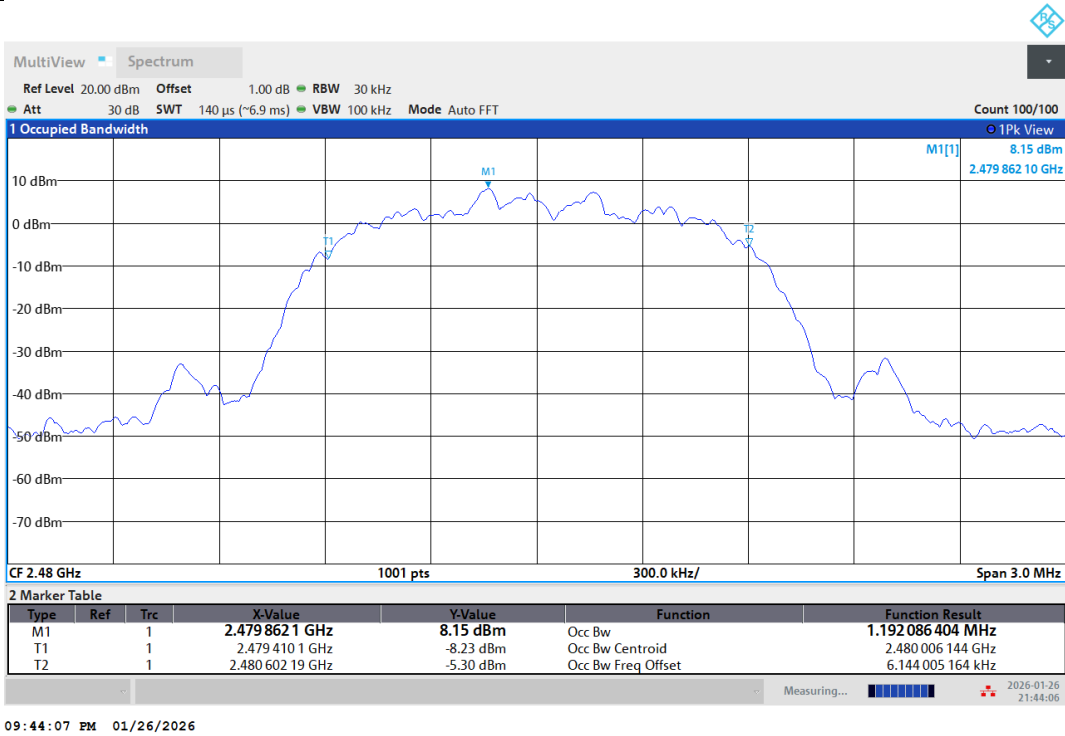
2DH5-Ant1-2480



3DH5-Ant1-2402



3DH5-Ant1-2441



3DH5-Ant1-2480

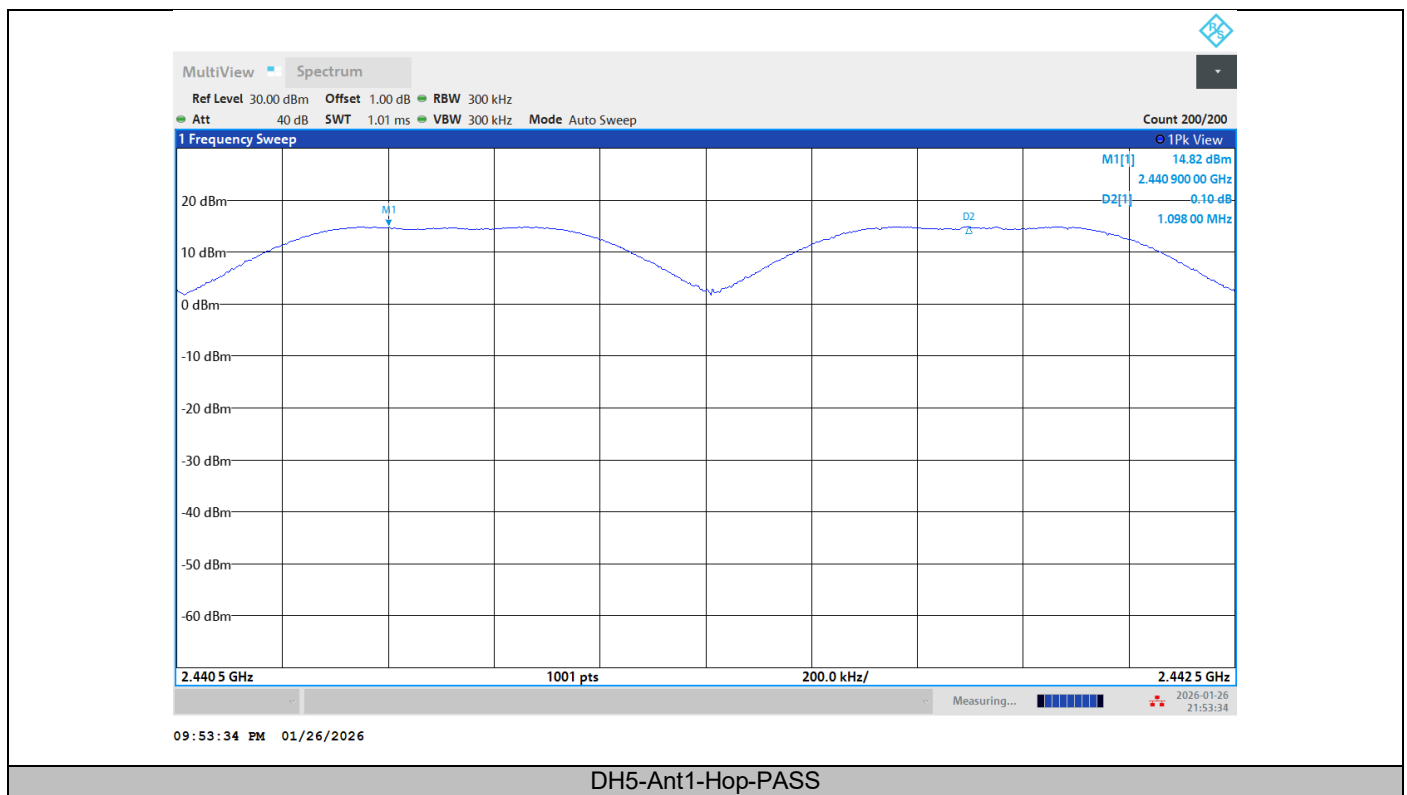
Maximum Conducted Output Power

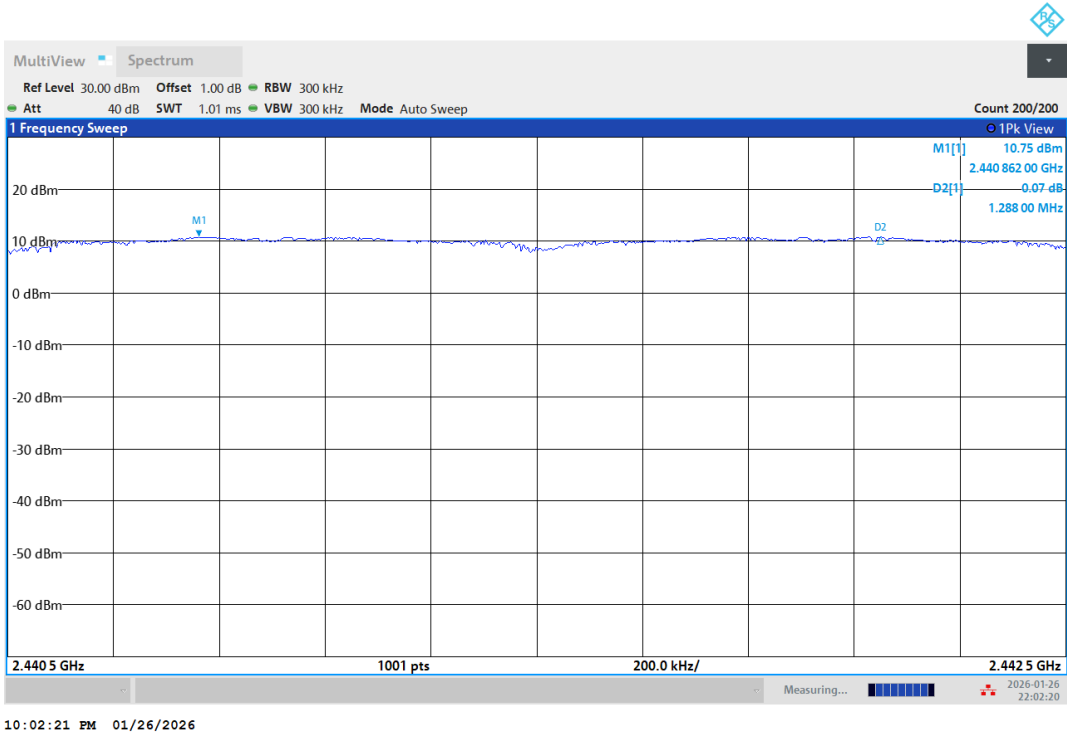
Bluetooth	Mode	Channel	Frequency (MHz)	Peak Power (dBm)	Limit (dBm)
	DH5	0	2402	14.14	30.00
		39	2441	14.48	30.00
		78	2480	14.88	30.00
	2DH5	0	2402	9.93	30.00
		39	2441	10.80	30.00
		78	2480	11.23	30.00
	3DH5	0	2402	10.24	30.00
		39	2441	10.66	30.00
		78	2480	11.28	30.00

Carrier Frequency Separation

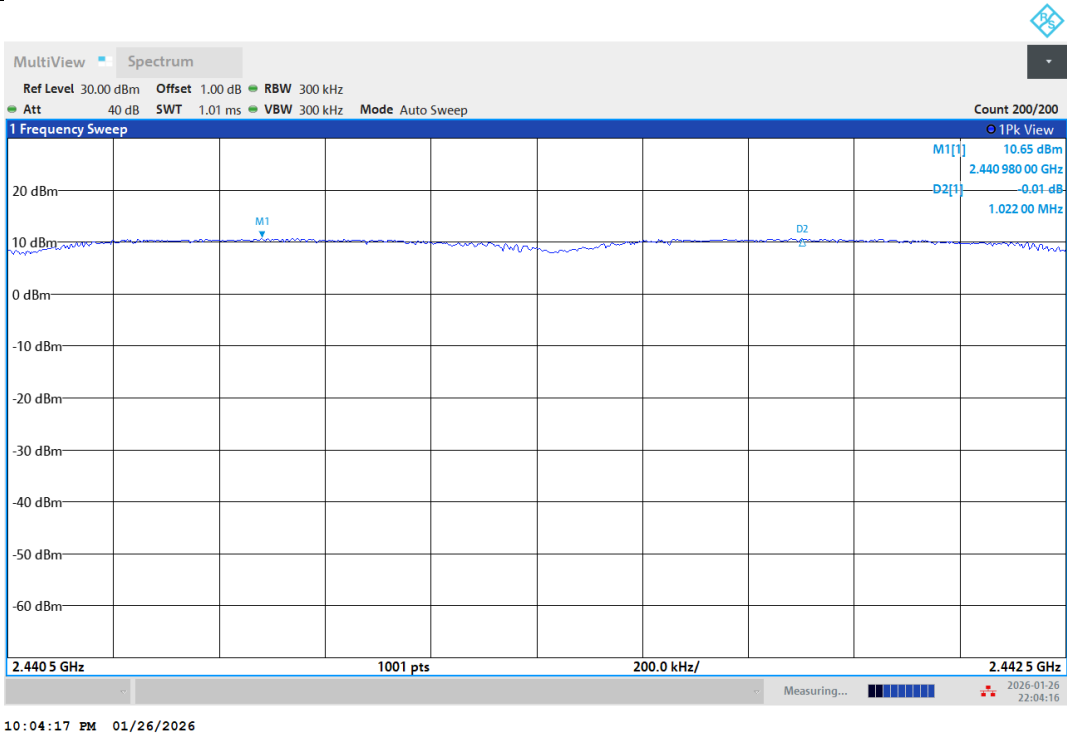
TestMode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
DH5	Ant1	Hop	1.098	≥ 1.030	PASS
2DH5	Ant1	Hop	1.288	≥ 0.900	PASS
3DH5	Ant1	Hop	1.022	≥ 0.893	PASS

Test Graphs





2DH5-Ant1-Hop-PASS

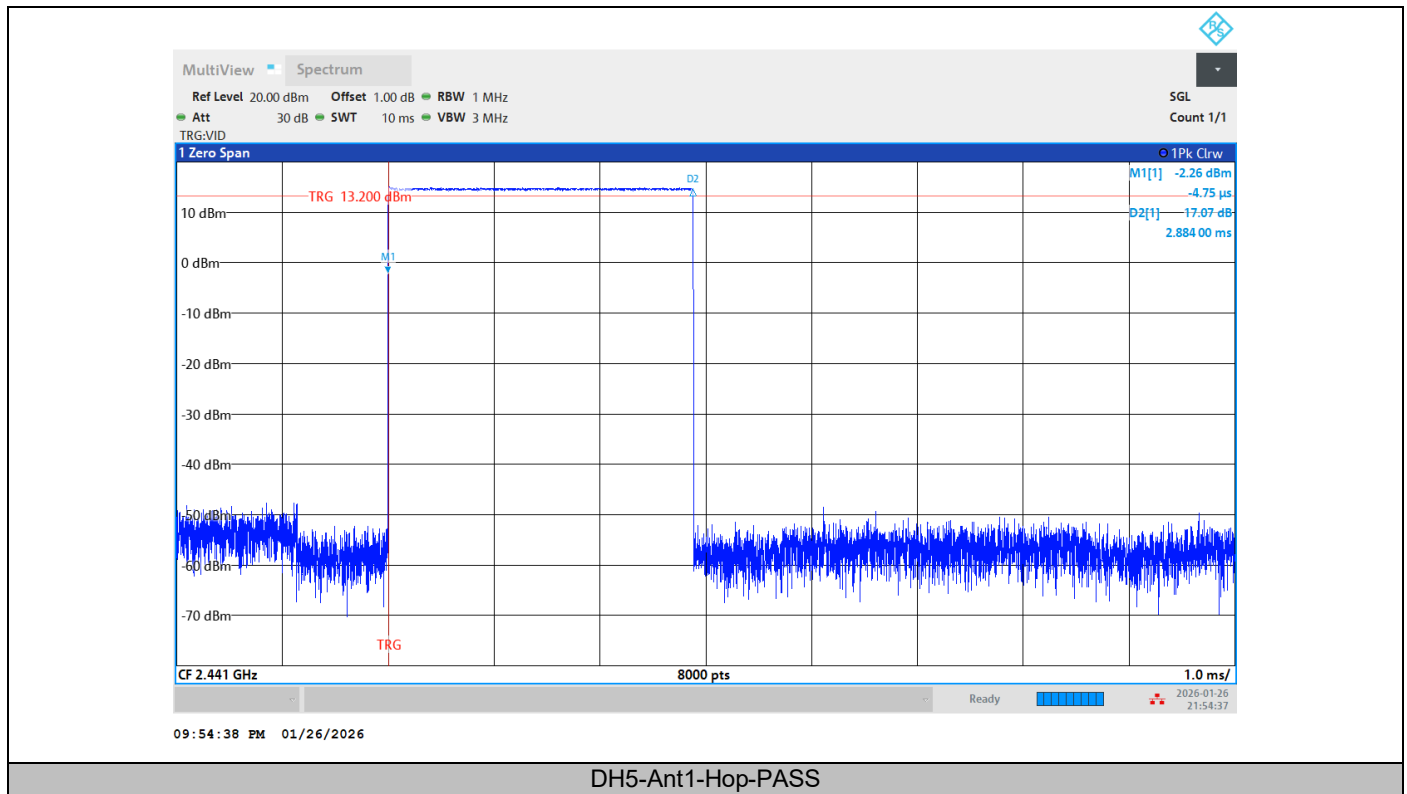


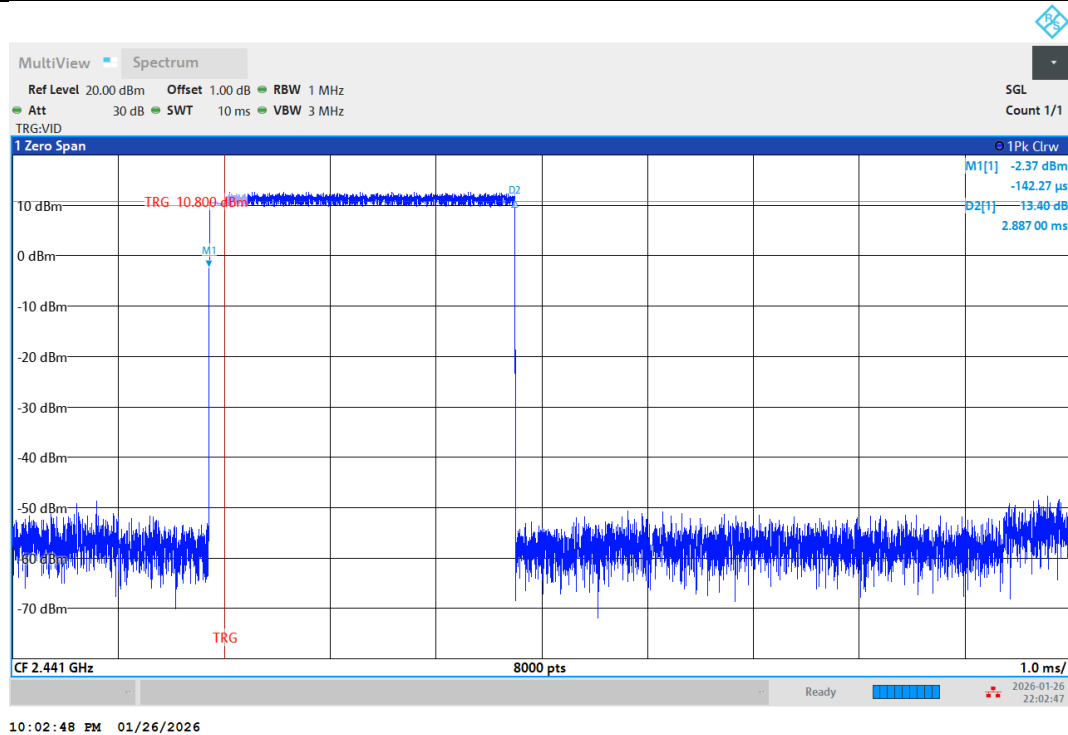
3DH5-Ant1-Hop-PASS

Time of Occupancy

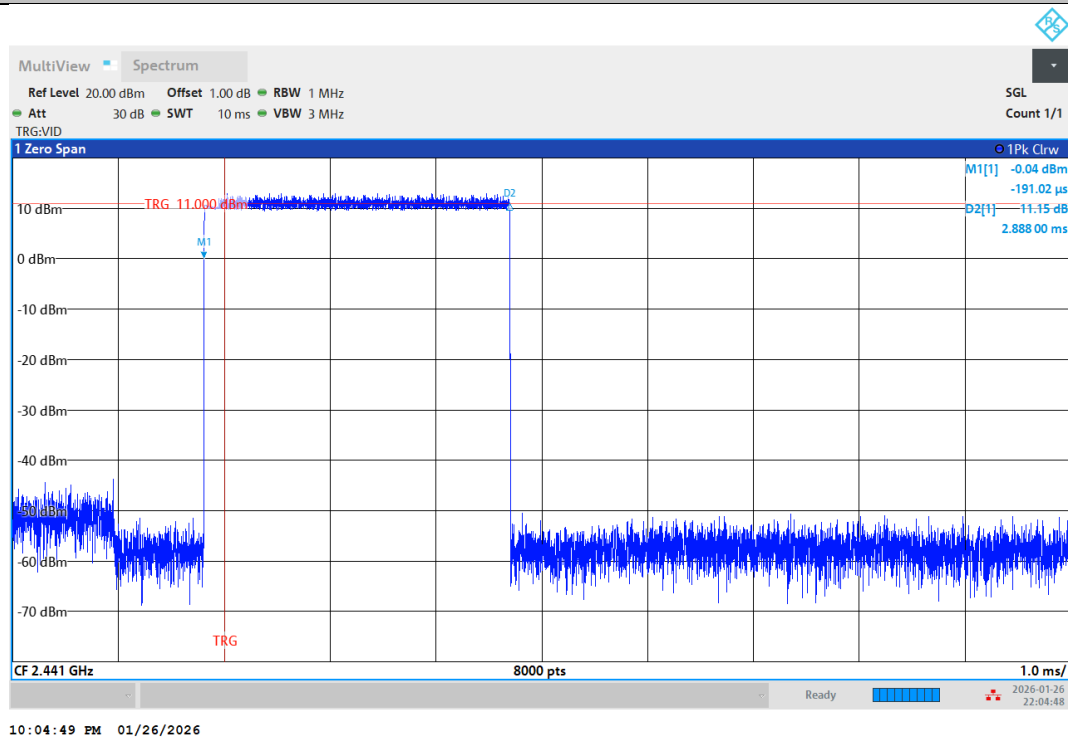
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH5	Ant1	Hop	2.884	106.67	0.308	≤0.4	PASS
2DH5	Ant1	Hop	2.887	106.67	0.308	≤0.4	PASS
3DH5	Ant1	Hop	2.888	106.67	0.308	≤0.4	PASS

Test Graphs





2DH5-Ant1-Hop-PASS

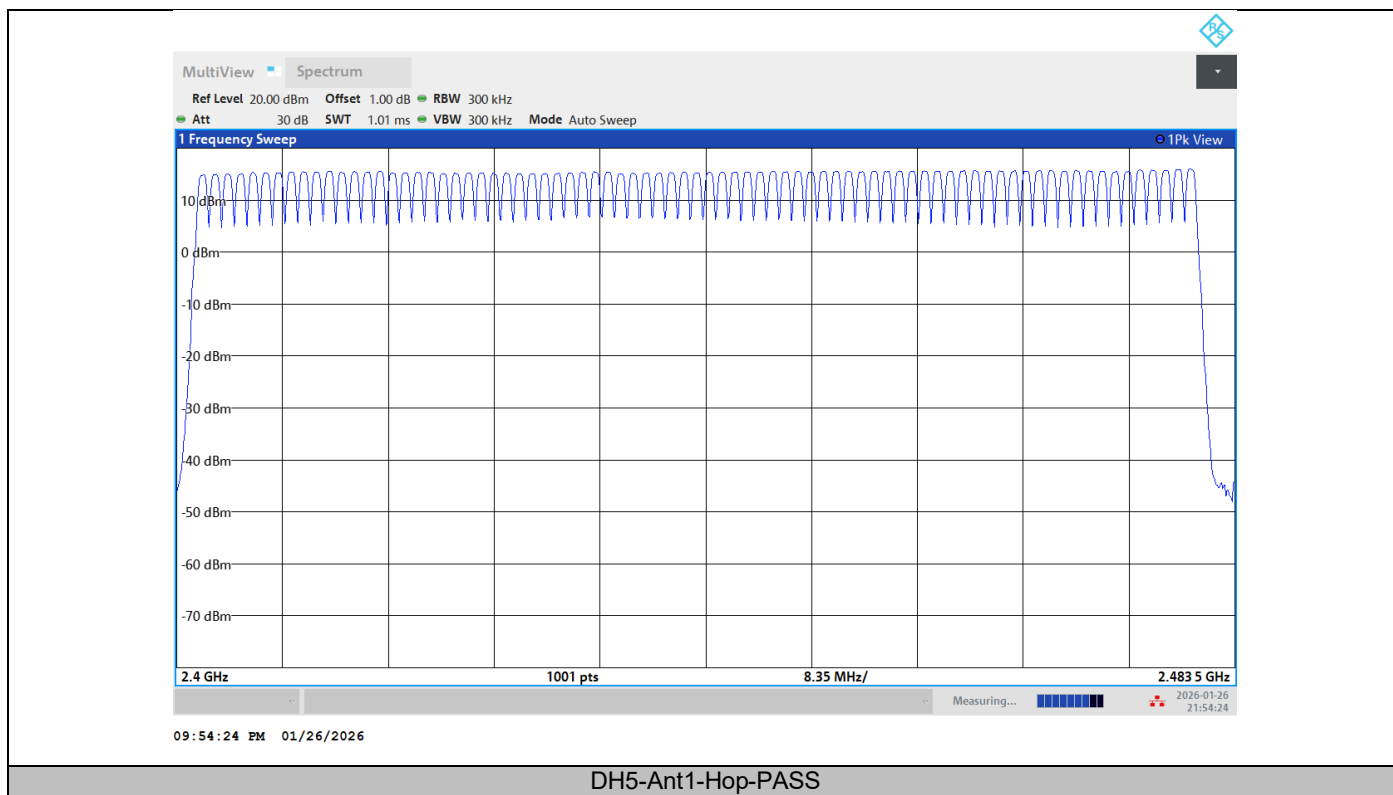


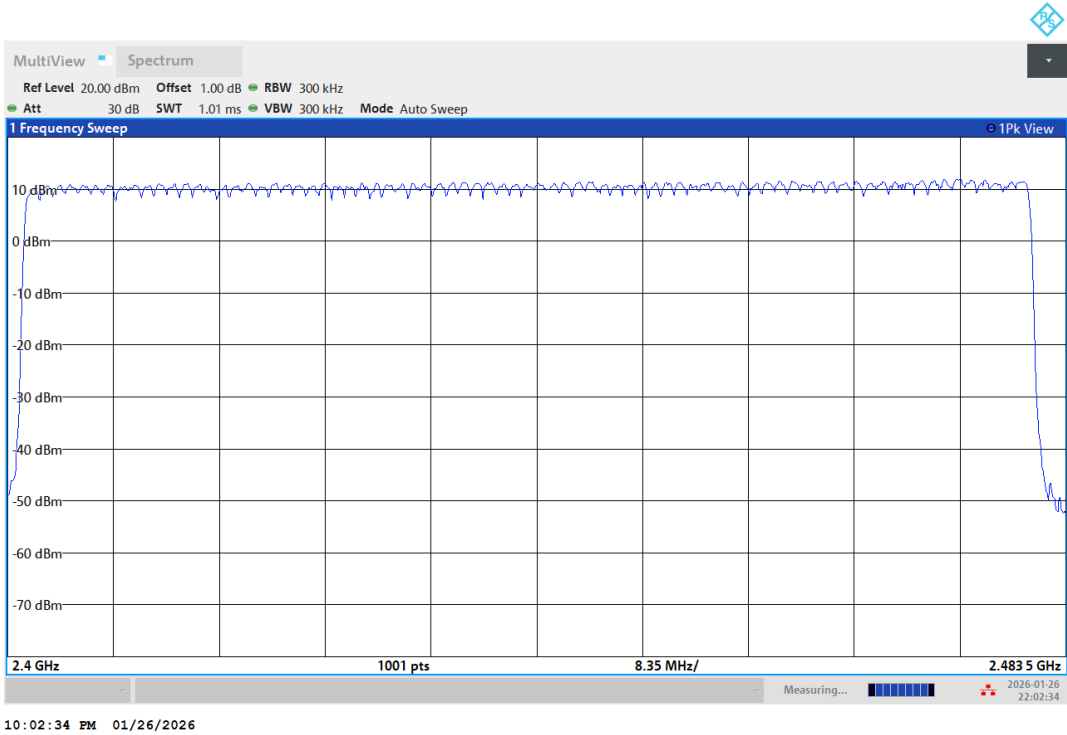
3DH5-Ant1-Hop-PASS

Number of Hopping Frequencies

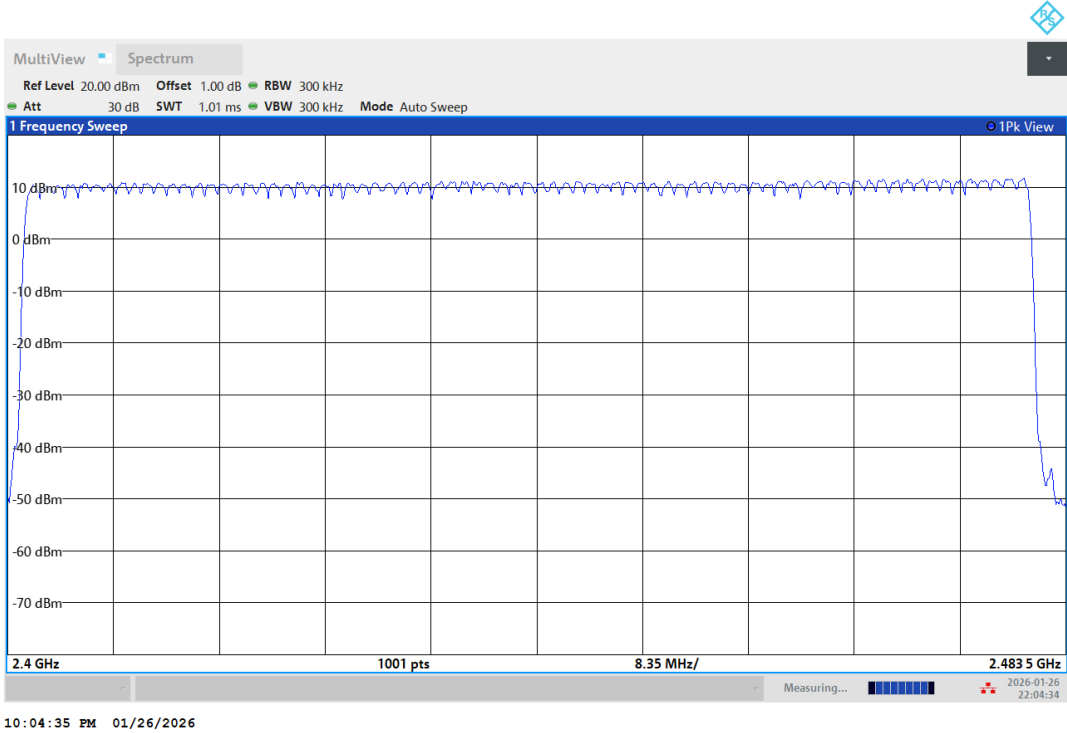
TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	≥15	PASS
2DH5	Ant1	Hop	79	≥15	PASS
3DH5	Ant1	Hop	79	≥15	PASS

Test Graphs





2DH5-Ant1-Hop-PASS

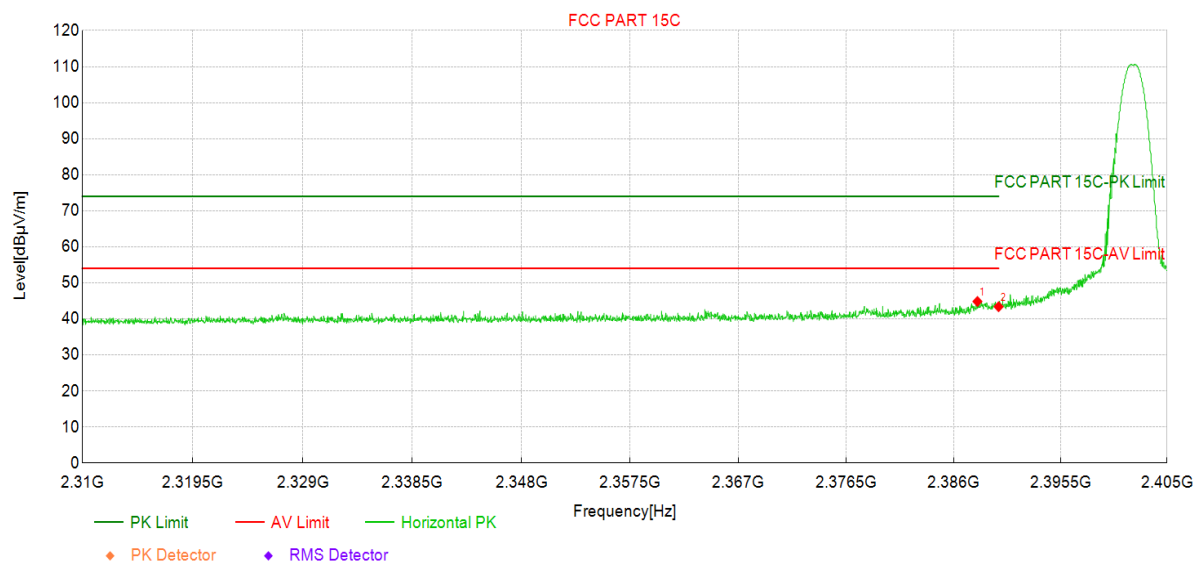


3DH5-Ant1-Hop-PASS

Band edge measurements

Transmit at 2402MHz by DH5

Test Graph

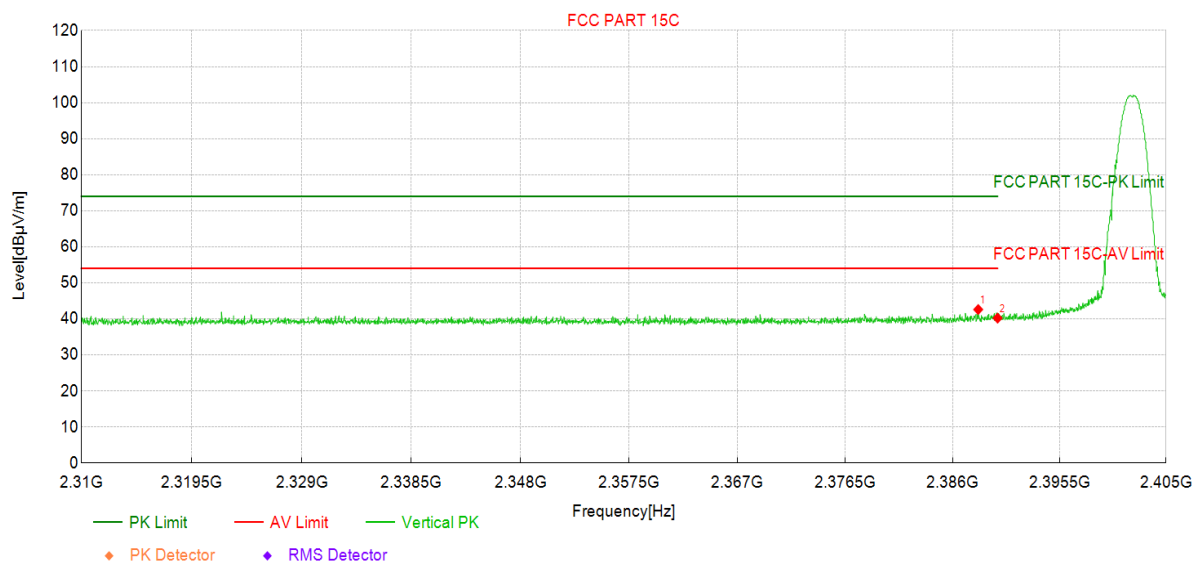


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.12	44.9	44.84	-0.100	74.00	29.16	PK	Horizo	PASS
2	2390.00	43.5	43.39	-0.090	74.00	30.61	PK	Horizo	PASS

Transmit at 2402MHz by DH5

Test Graph

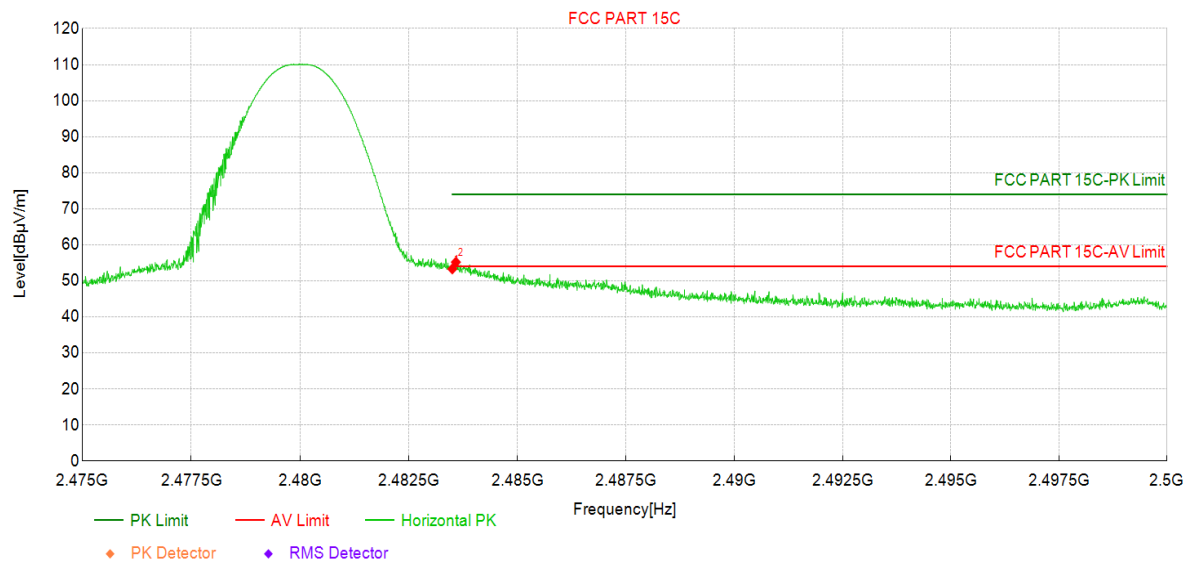


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.28	42.7	42.60	-0.100	74.00	31.40	PK	Vertic	PASS
2	2390.00	40.3	40.22	-0.090	74.00	33.78	PK	Vertic	PASS

Transmit at 2480MHz by DH5

Test Graph

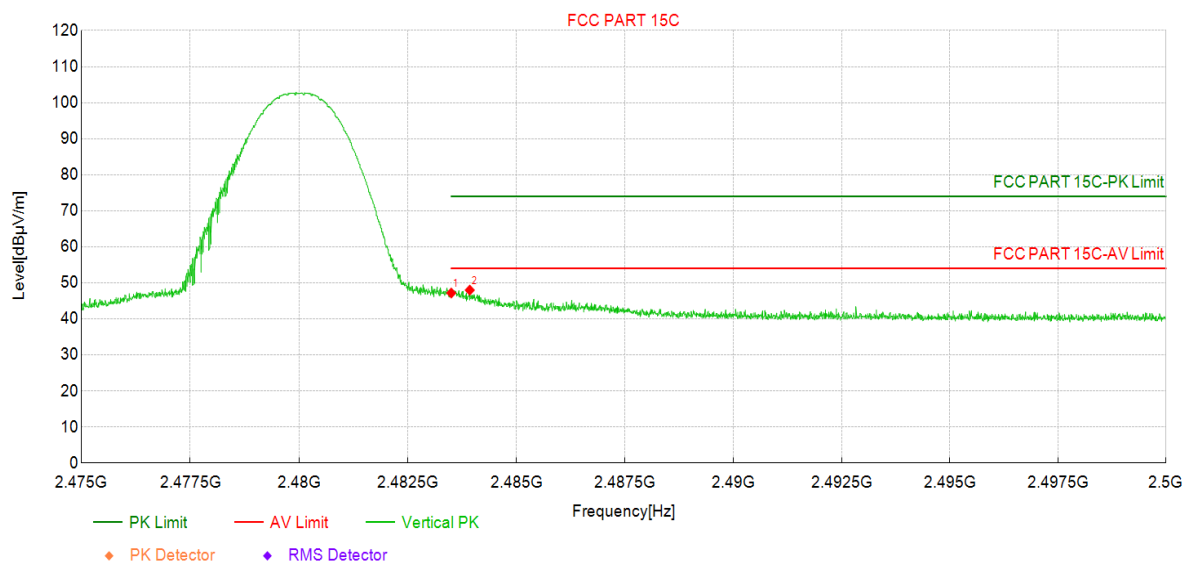


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	53.2	53.31	0.100	74.00	20.69	PK	Horizo	PASS
2	2483.58	55.1	55.20	0.100	74.00	18.80	PK	Horizo	PASS

Transmit at 2480MHz by DH5

Test Graph

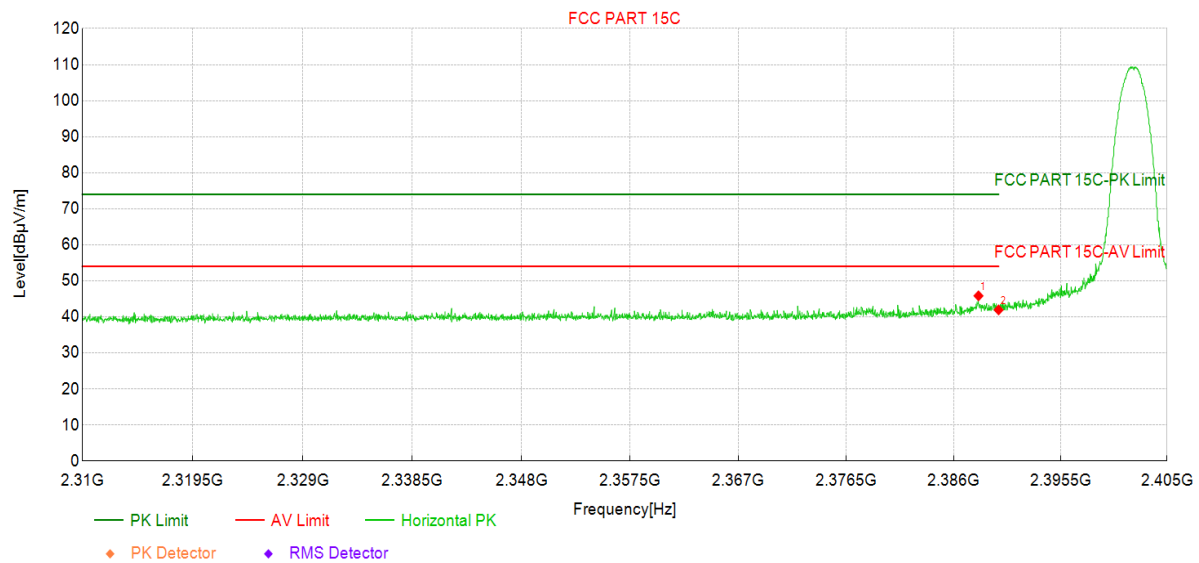


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	47.1	47.18	0.100	74.00	26.82	PK	Vertic	PASS
2	2483.93	47.9	47.98	0.100	74.00	26.02	PK	Vertic	PASS

Transmit at 2402MHz by 2DH5

Test Graph

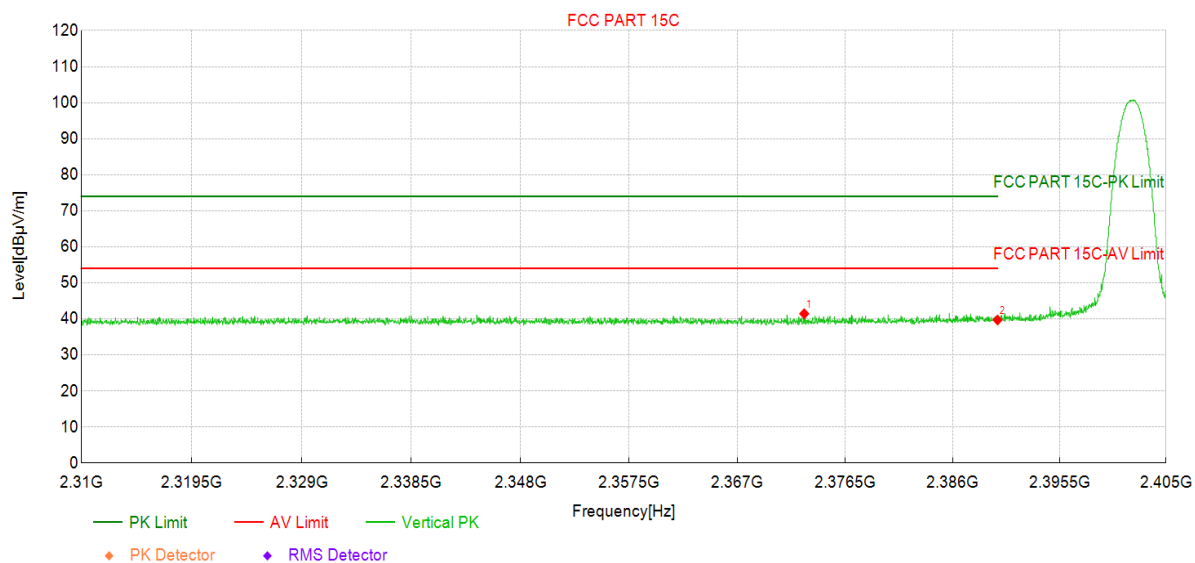


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.22	45.9	45.84	-0.100	74.00	28.16	PK	Horizo	PASS
2	2390.00	42.0	41.94	-0.090	74.00	32.06	PK	Horizo	PASS

Transmit at 2402MHz by 2DH5

Test Graph

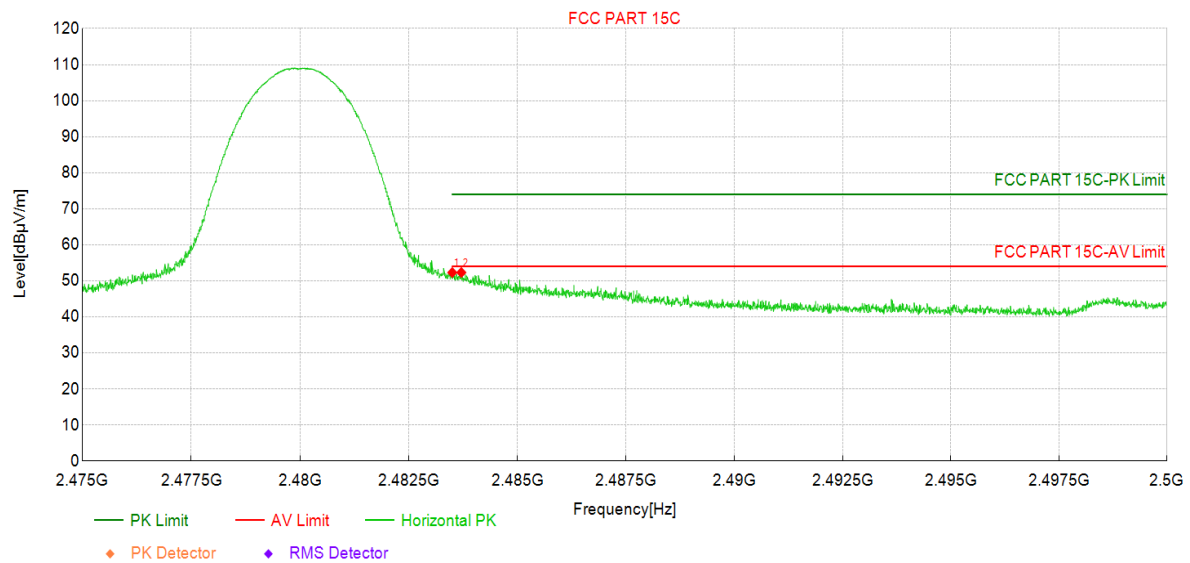


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2372.89	41.5	41.43	-0.110	74.00	32.57	PK	Vertic	PASS
2	2390.00	39.8	39.69	-0.090	74.00	34.31	PK	Vertic	PASS

Transmit at 2480MHz by 2DH5

Test Graph

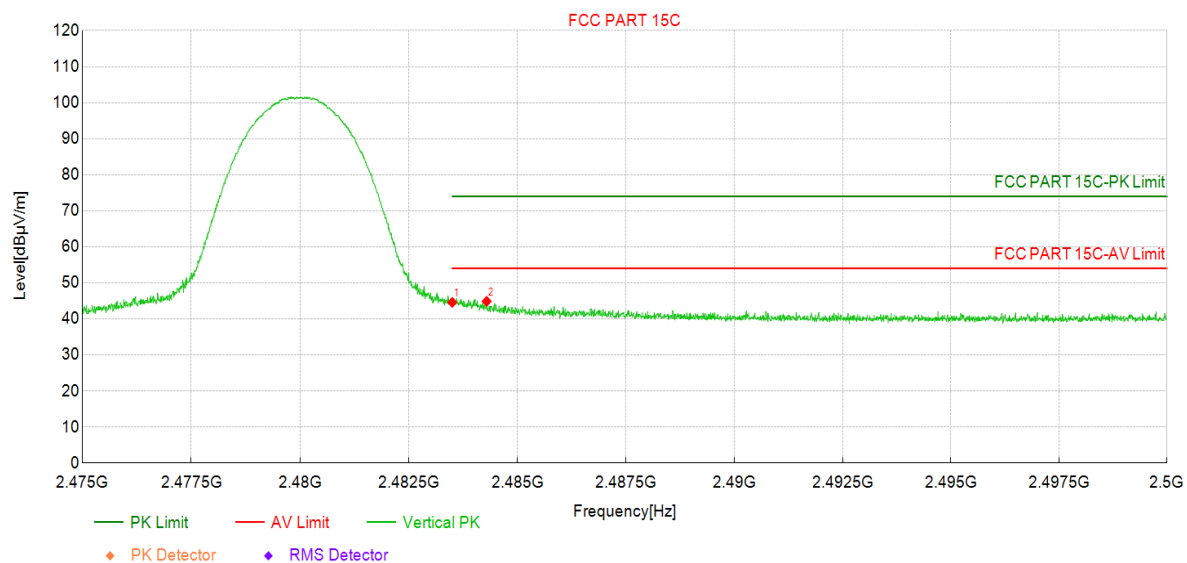


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	52.2	52.31	0.100	74.00	21.69	PK	Horizo	PASS
2	2483.71	52.2	52.32	0.100	74.00	21.68	PK	Horizo	PASS

Transmit at 2480MHz by 2DH5

Test Graph

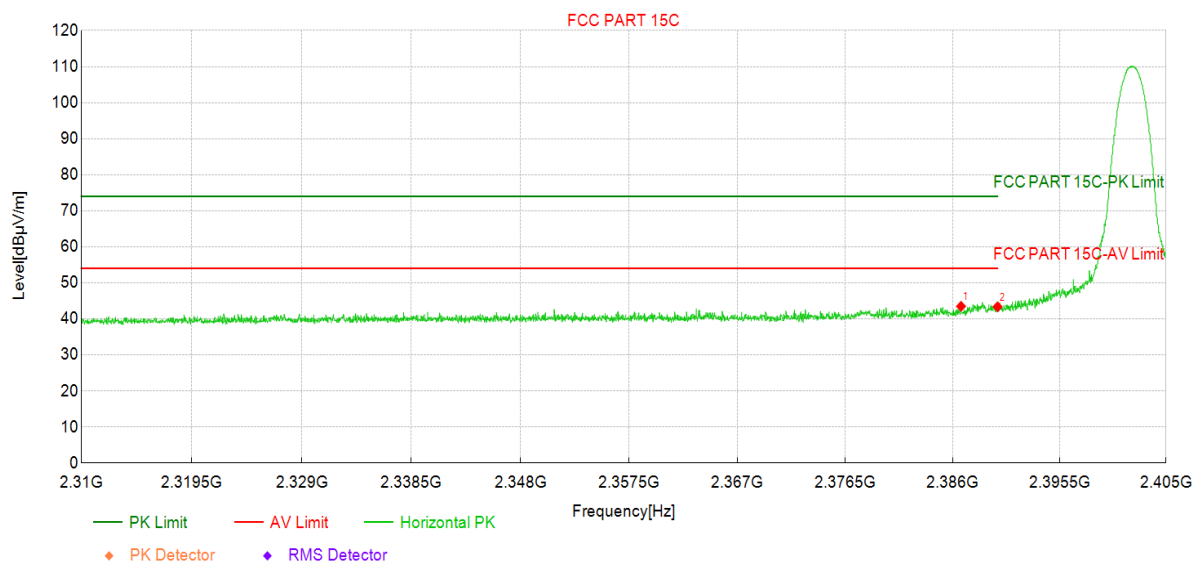


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	44.5	44.58	0.100	74.00	29.42	PK	Vertic	PASS
2	2484.29	44.8	44.88	0.100	74.00	29.12	PK	Vertic	PASS

Transmit at 2402MHz by 3DH5

Test Graph

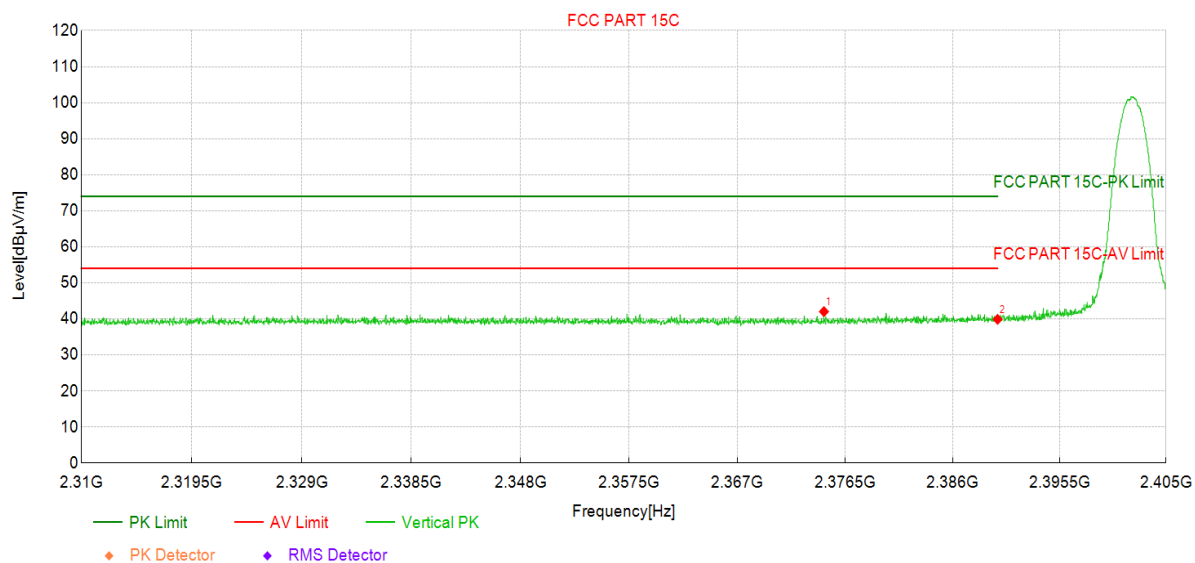


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2386.76	43.6	43.49	-0.100	74.00	30.51	PK	Horizo	PASS
2	2390.00	43.5	43.37	-0.090	74.00	30.63	PK	Horizo	PASS

Transmit at 2402MHz by 3DH5

Test Graph

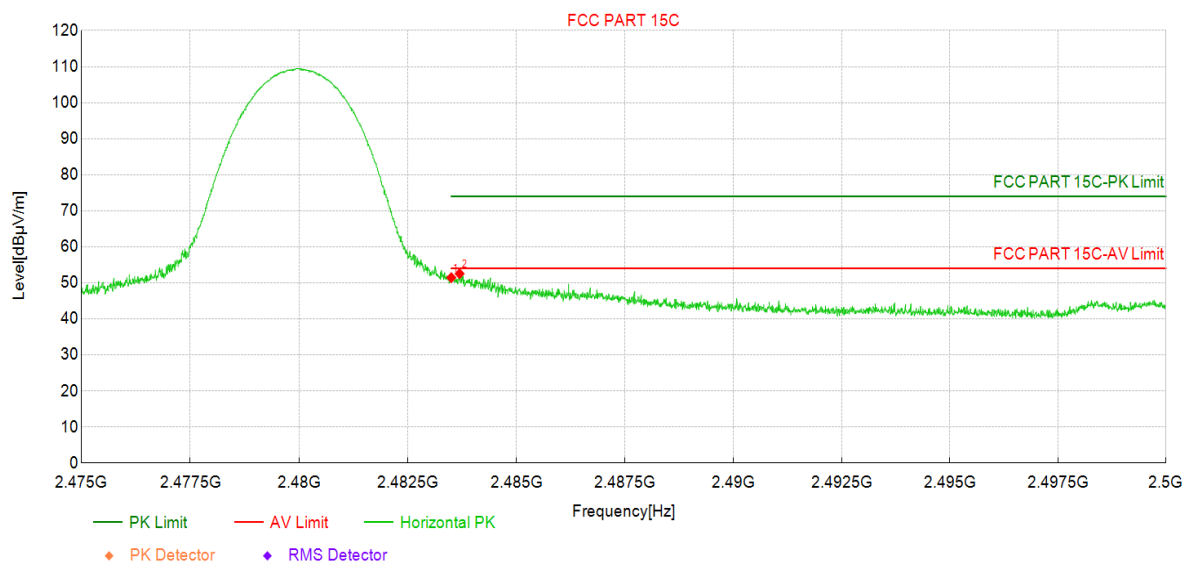


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2374.63	42.1	42.03	-0.110	74.00	31.97	PK	Vertic	PASS
2	2390.00	40.0	39.88	-0.090	74.00	34.12	PK	Vertic	PASS

Transmit at 2480MHz by 3DH5

Test Graph

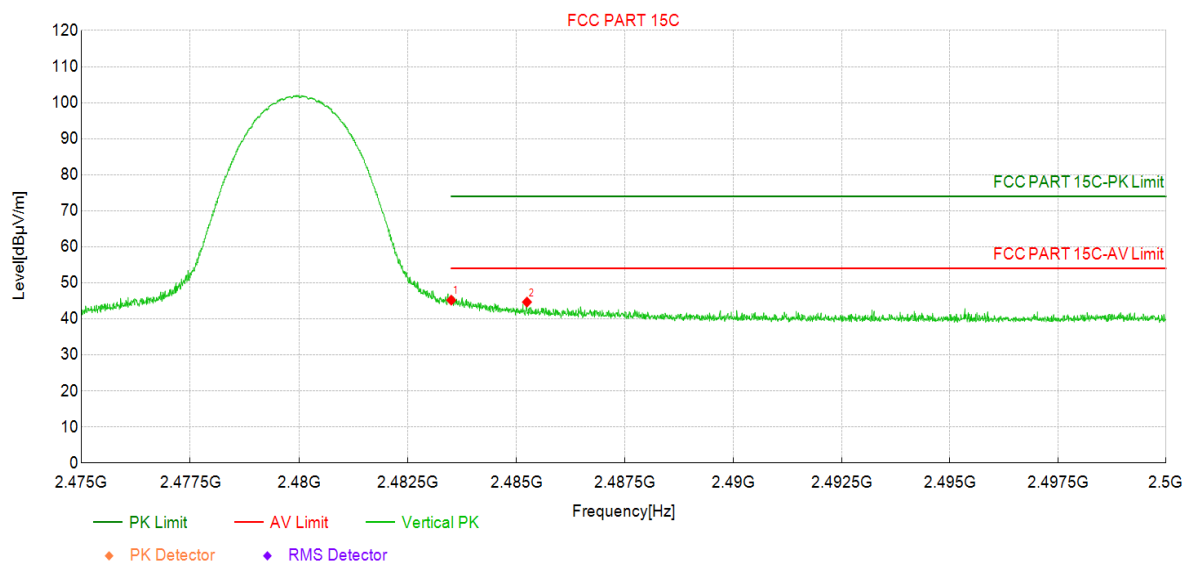


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	51.4	51.45	0.100	74.00	22.55	PK	Horizo	PASS
2	2483.69	52.4	52.54	0.100	74.00	21.46	PK	Horizo	PASS

Transmit at 2480MHz by 3DH5

Test Graph

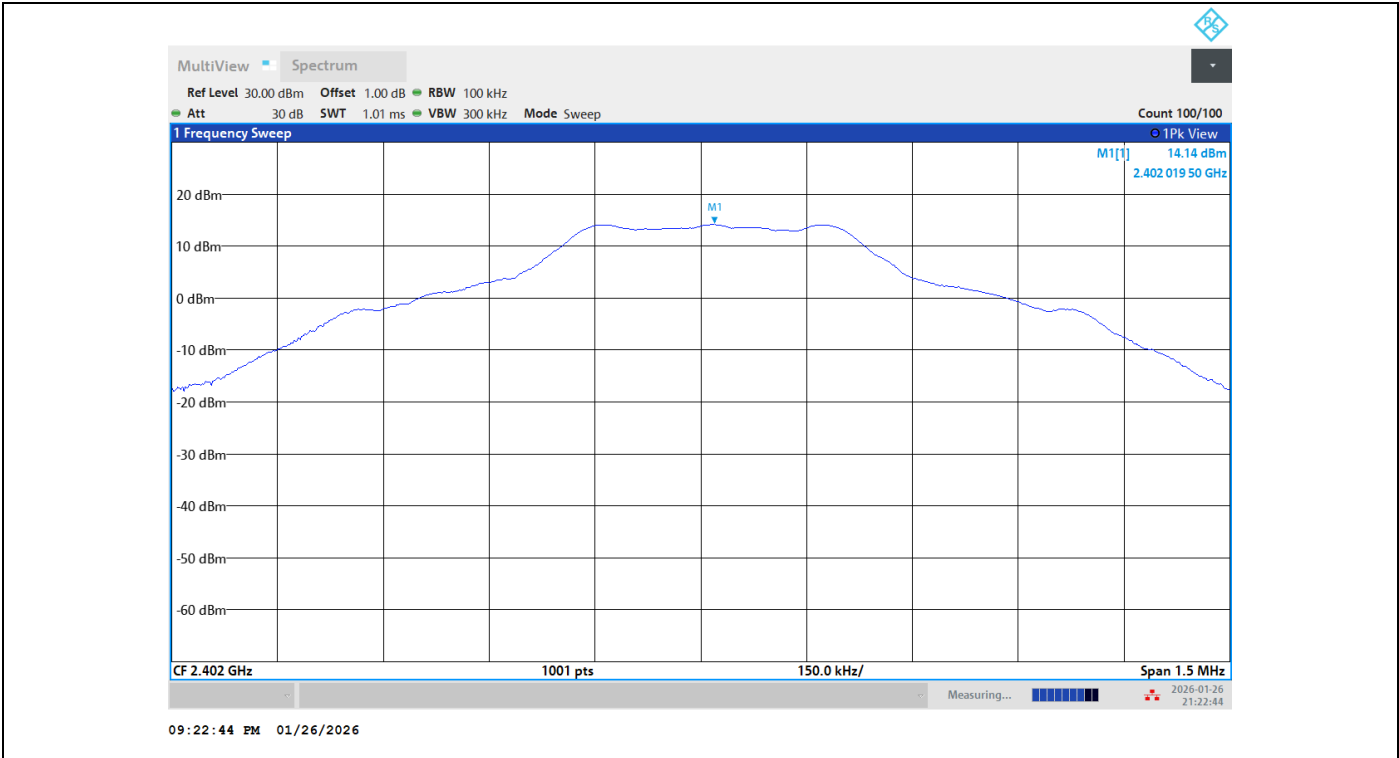


Data List

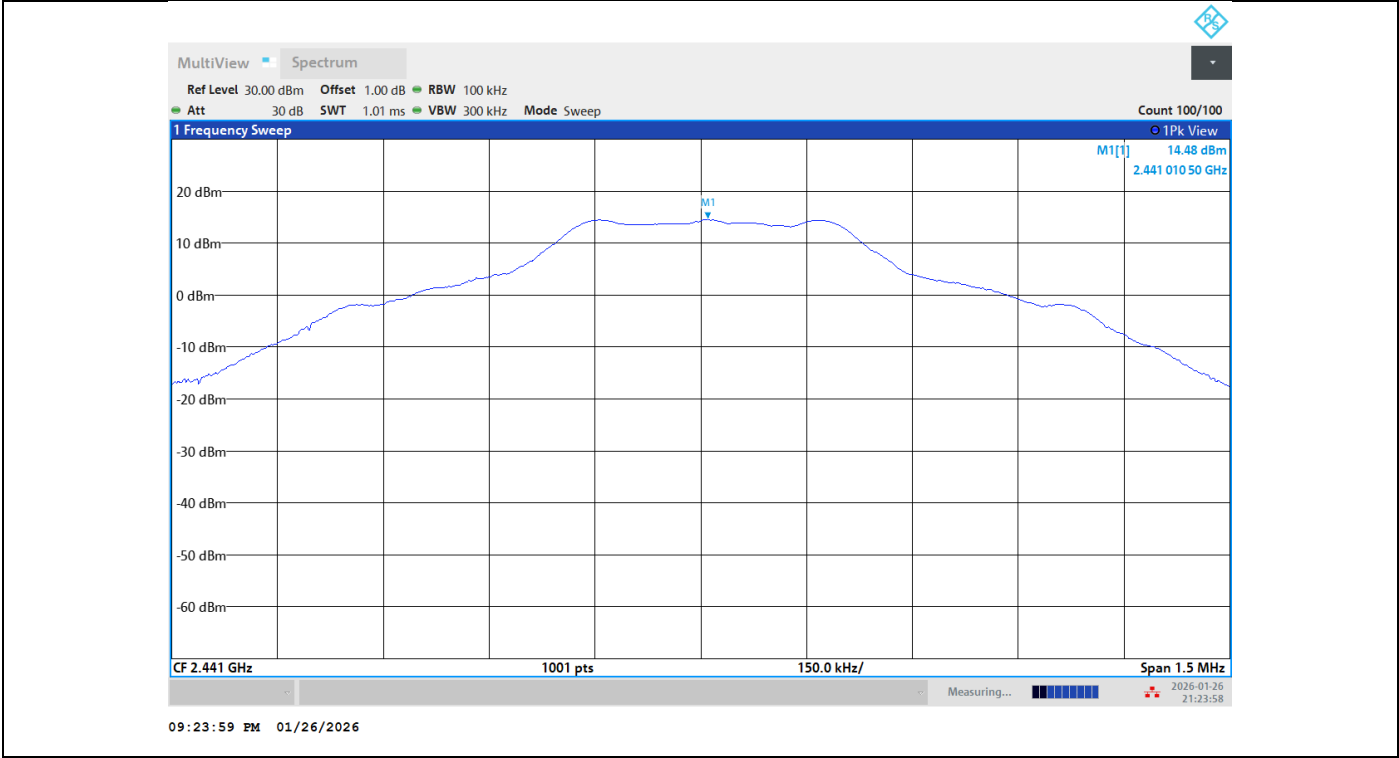
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	45.1	45.20	0.100	74.00	28.80	PK	Vertic	PASS
2	2485.24	44.6	44.67	0.110	74.00	29.33	PK	Vertic	PASS

Note: Level = Reading + Factor (Antenna factor + Amplifier factor + Cable loss)

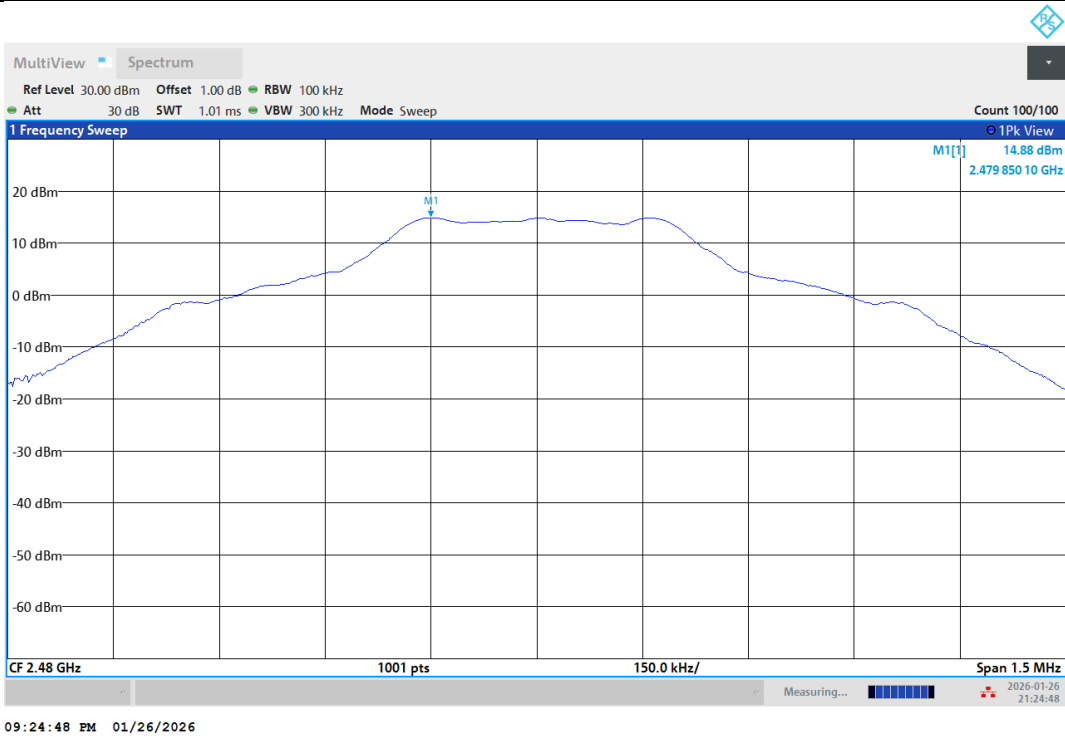
Conducted Spurious Emission
Test Graphs for Reference level



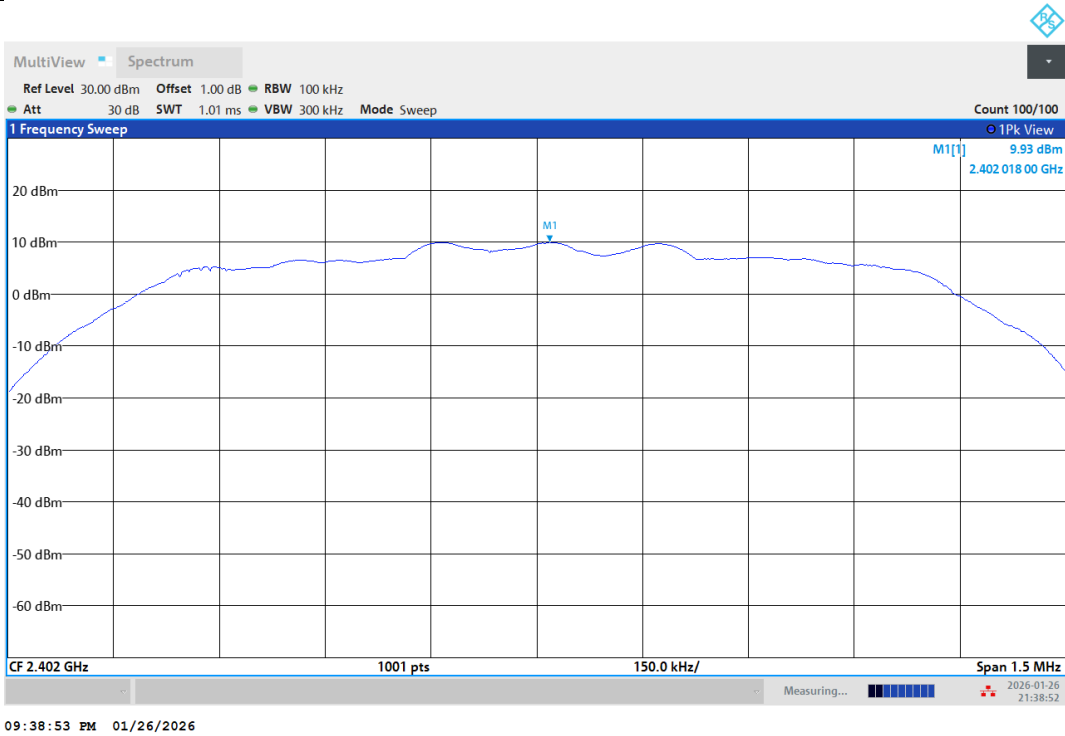
DH5-Ant1-2402-PASS



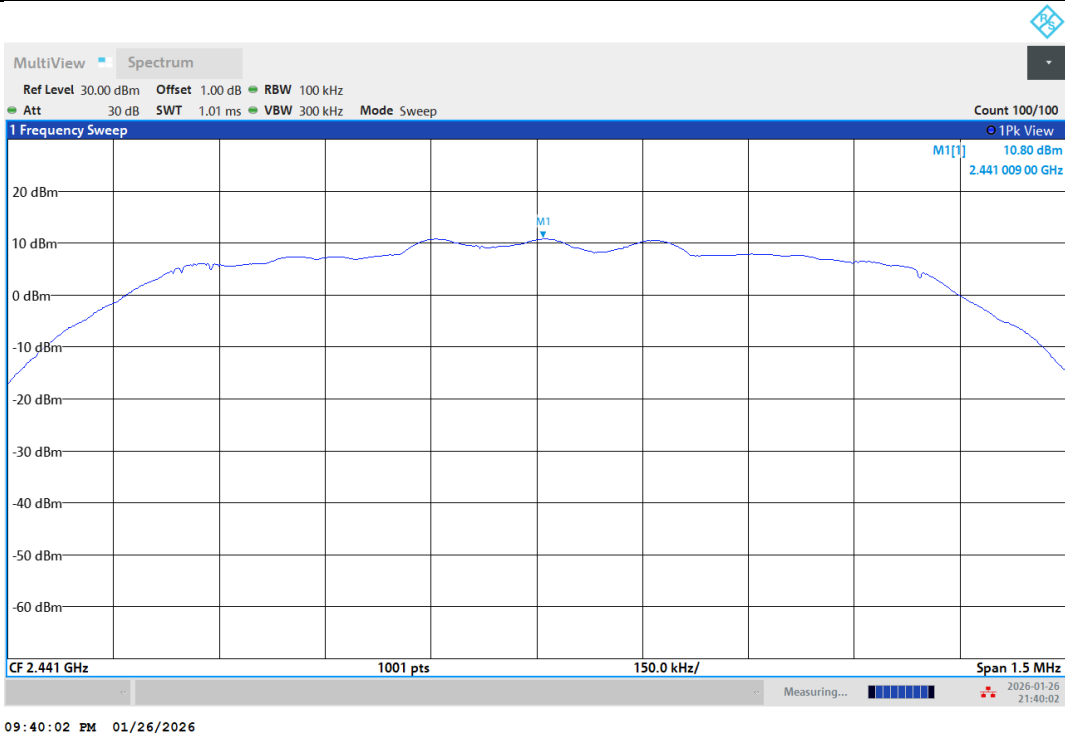
DH5-Ant1-2441-PASS



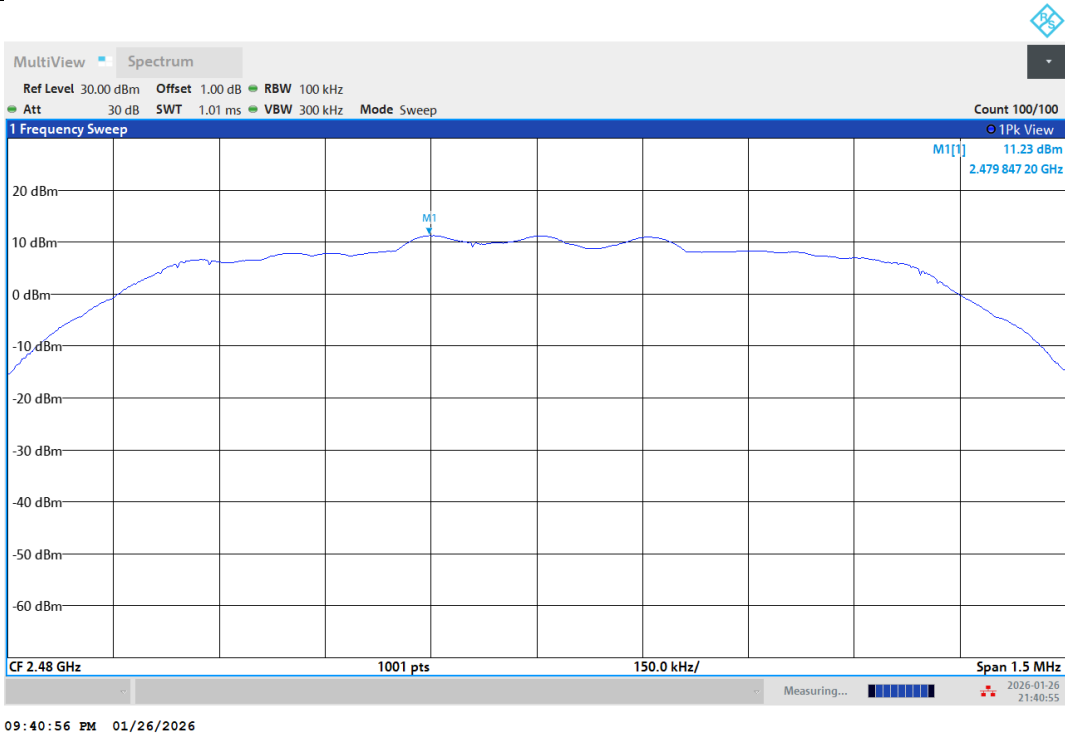
DH5-Ant1-2480-PASS



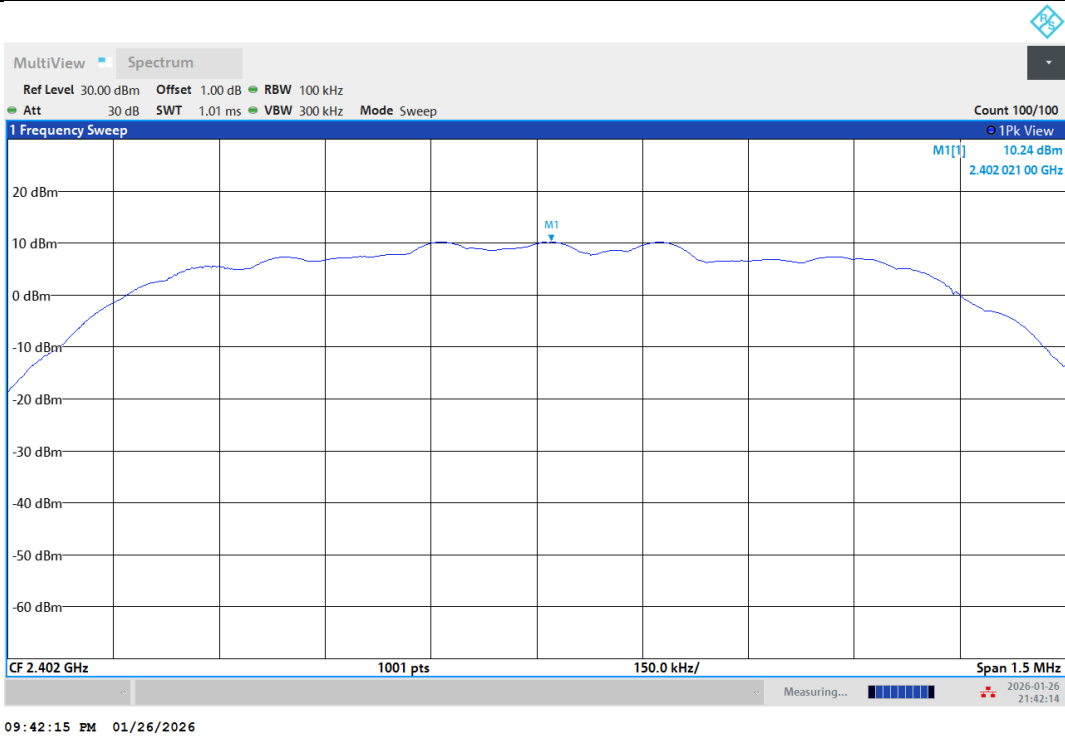
2DH5-Ant1-2402-PASS



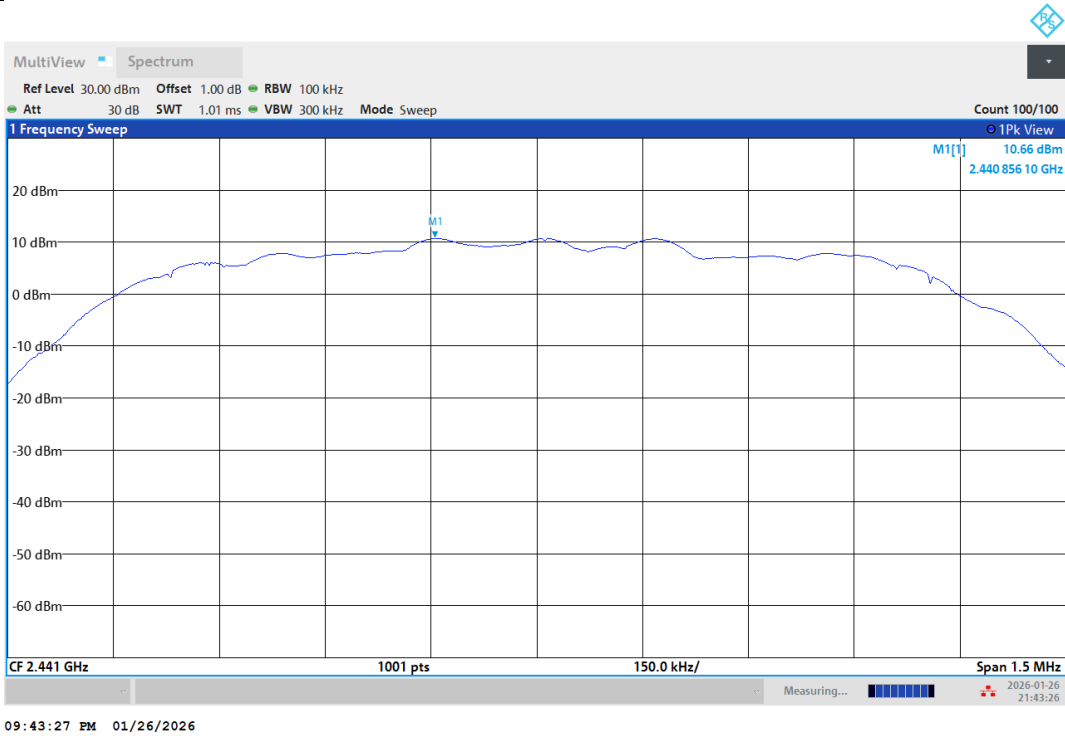
2DH5-Ant1-2441-PASS



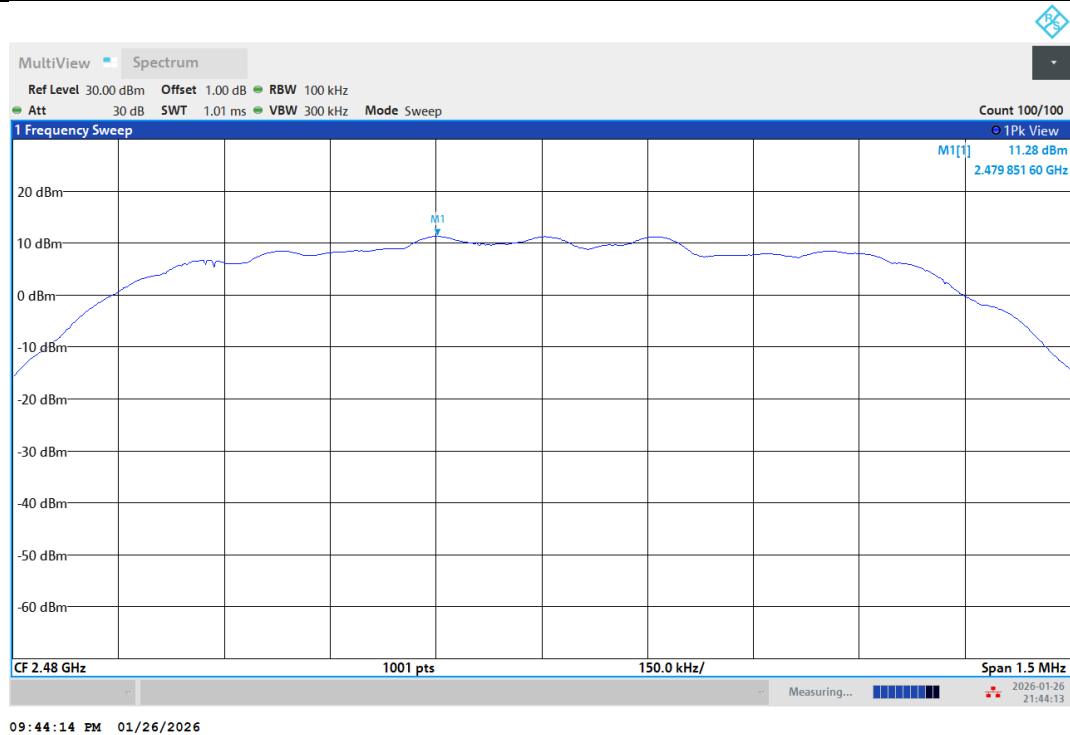
2DH5-Ant1-2480-PASS



3DH5-Ant1-2402-PASS

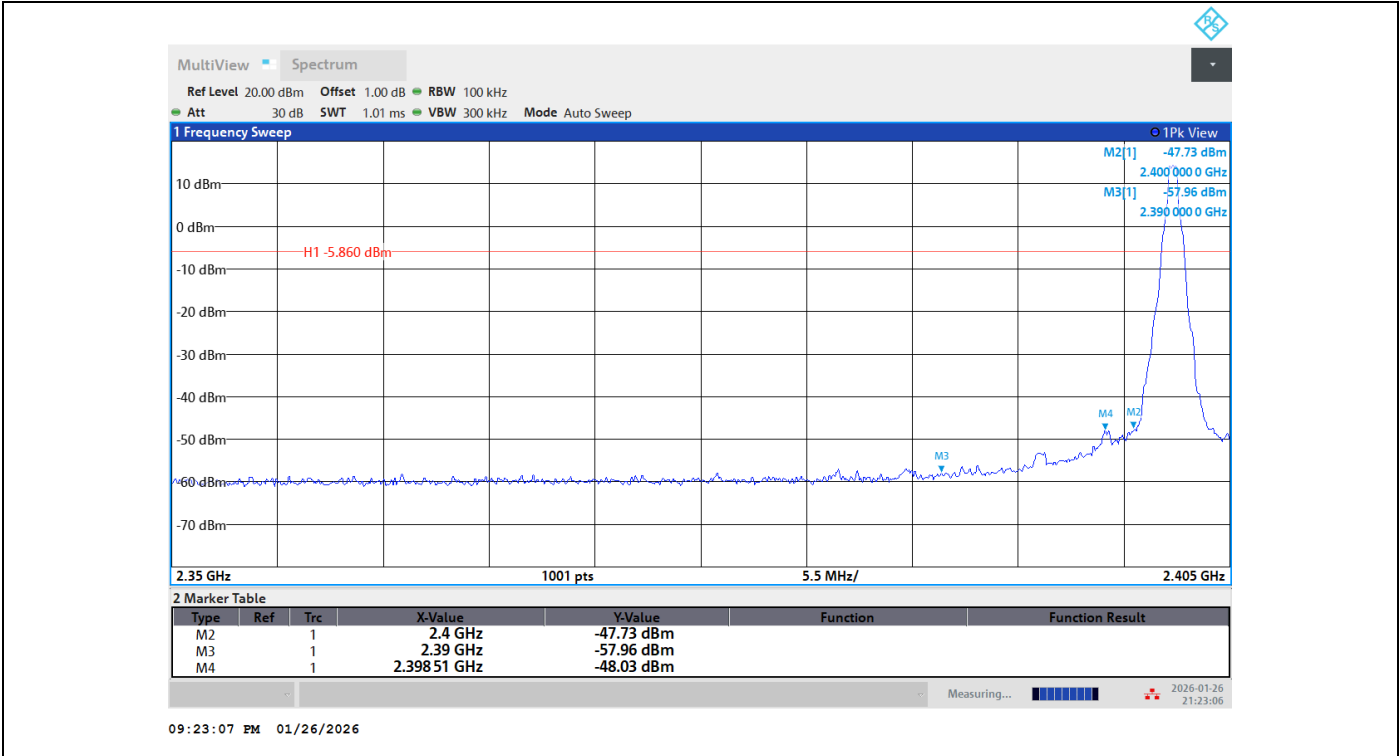


3DH5-Ant1-2441-PASS

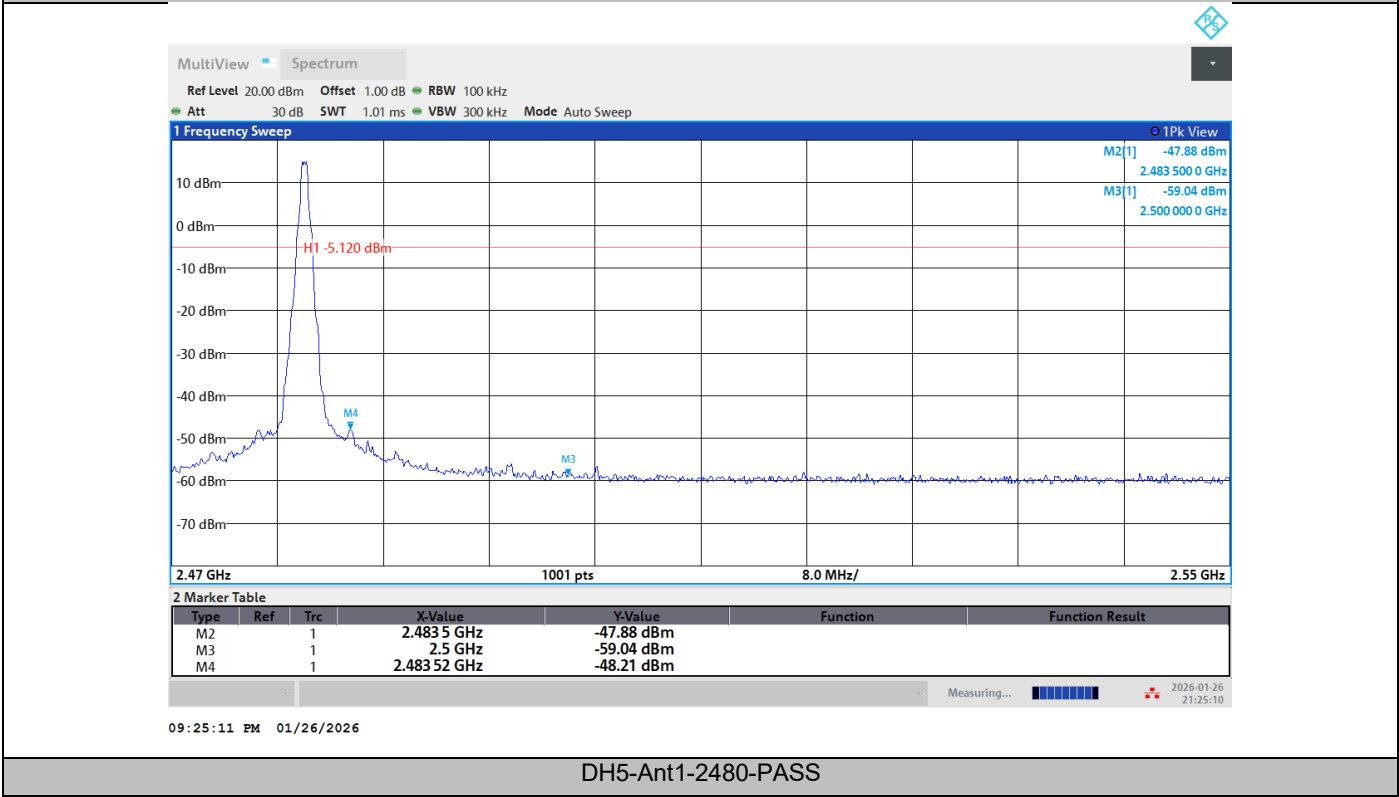


3DH5-Ant1-2480-PASS

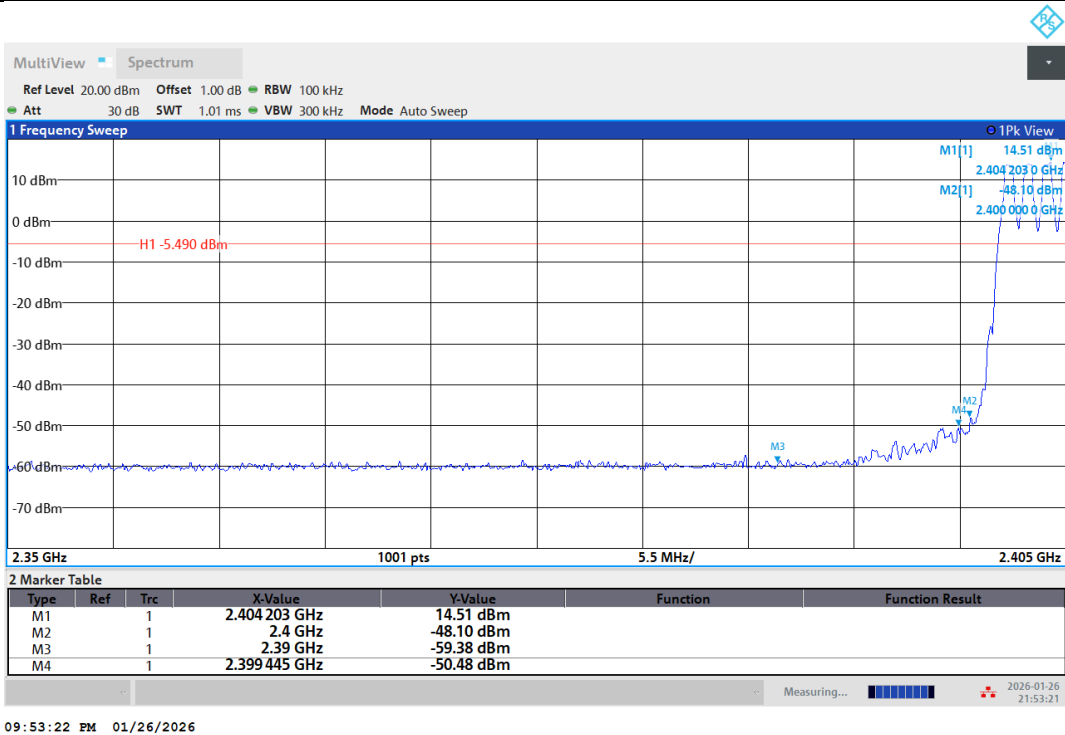
Test Graphs for Band edge



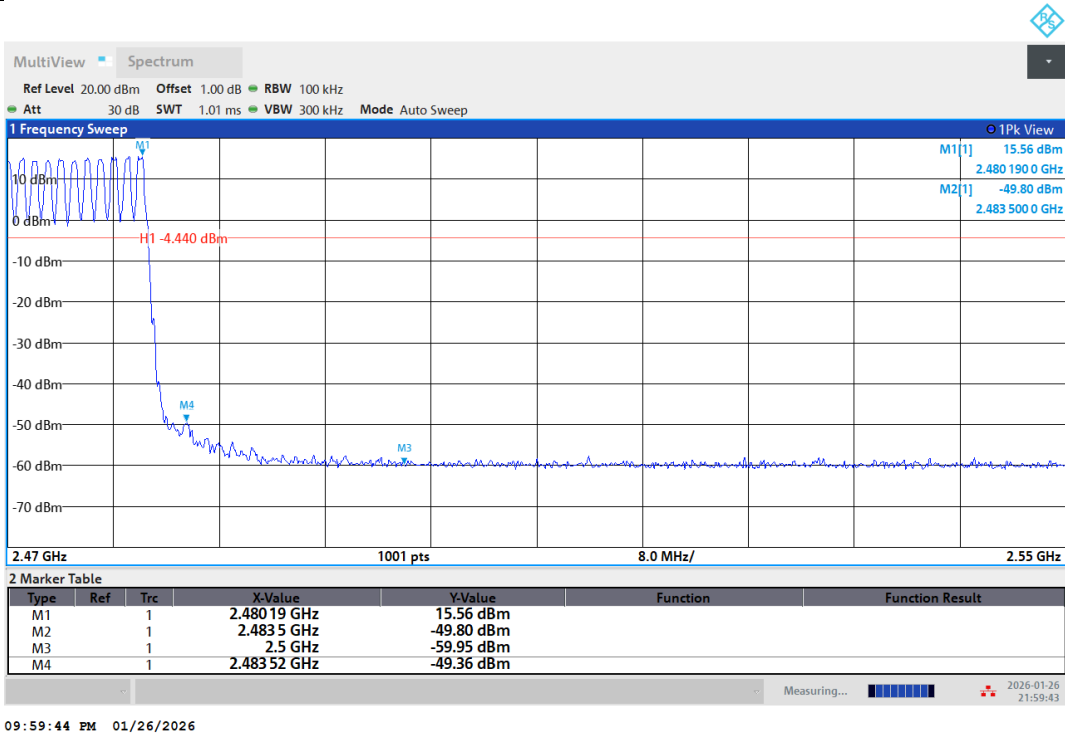
DH5-Ant1-2402-PASS



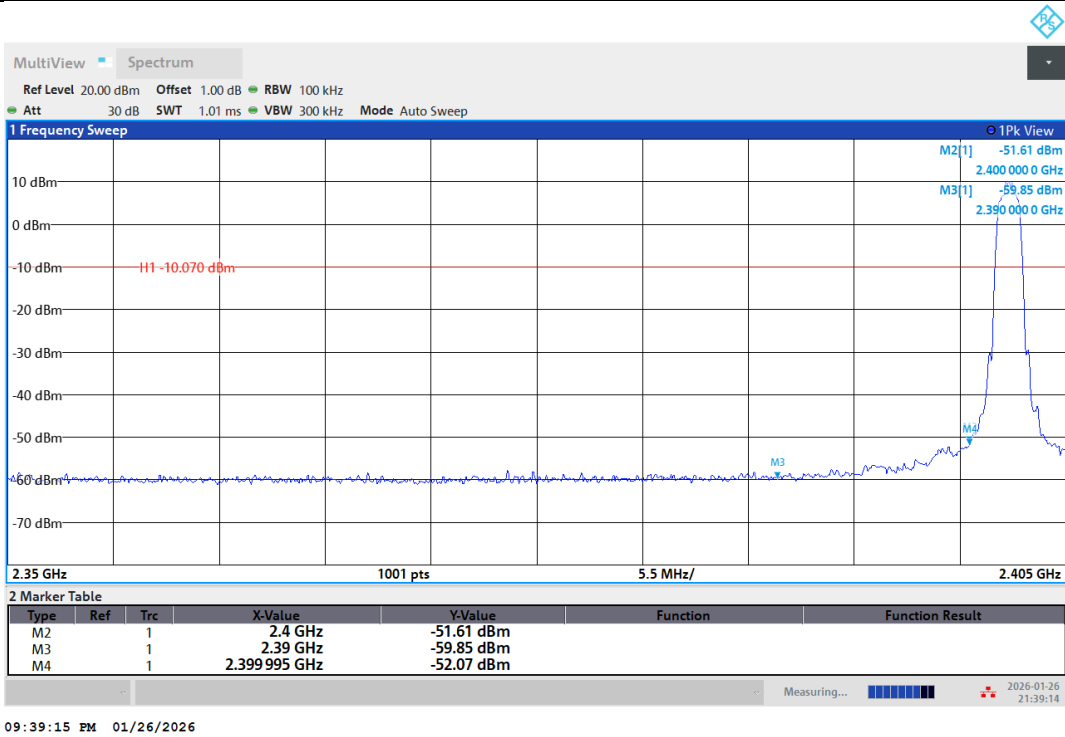
DH5-Ant1-2480-PASS



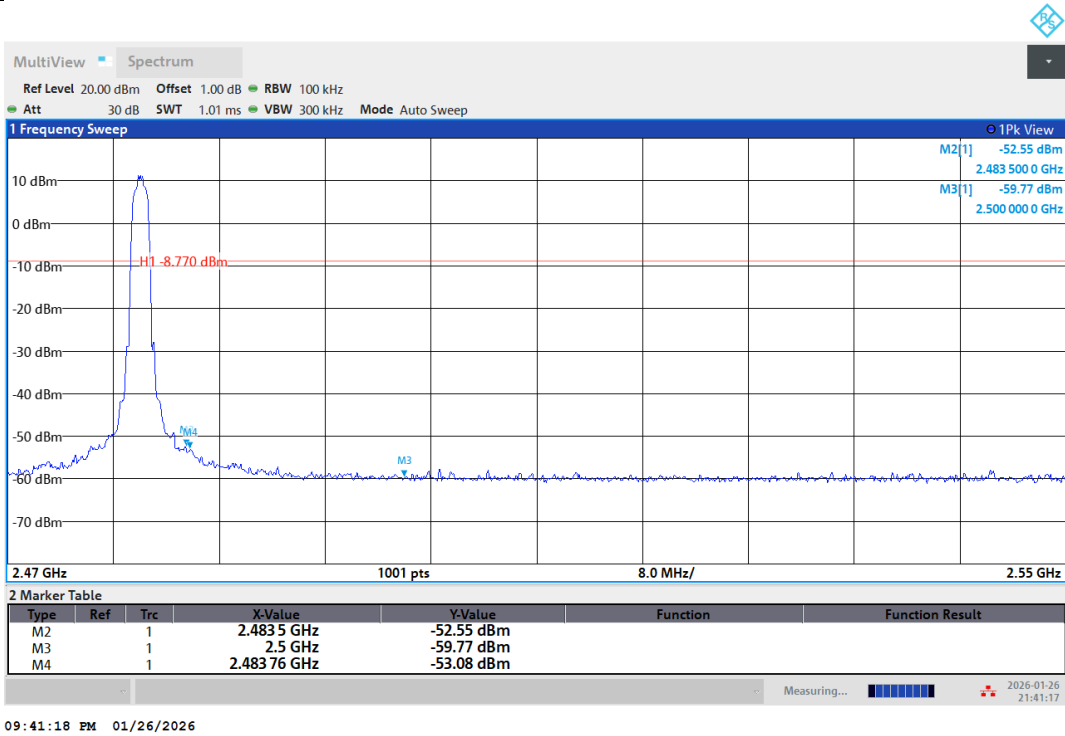
DH5-Ant1-Hop_2402-PASS



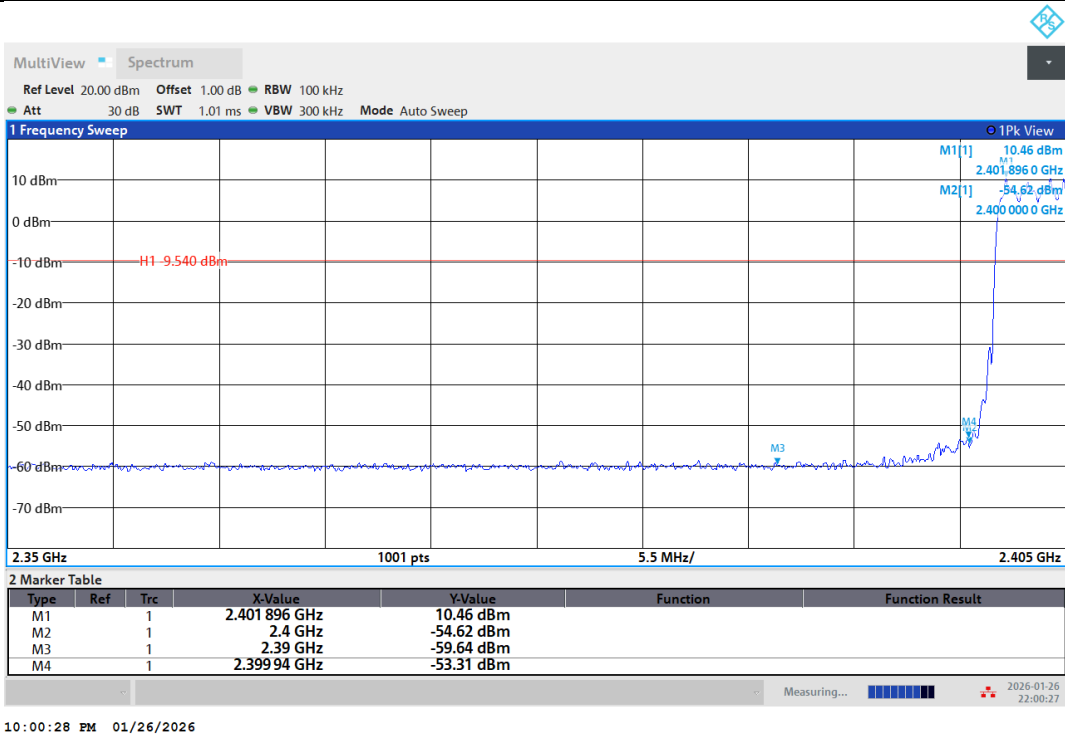
DH5-Ant1-Hop_2480-PASS



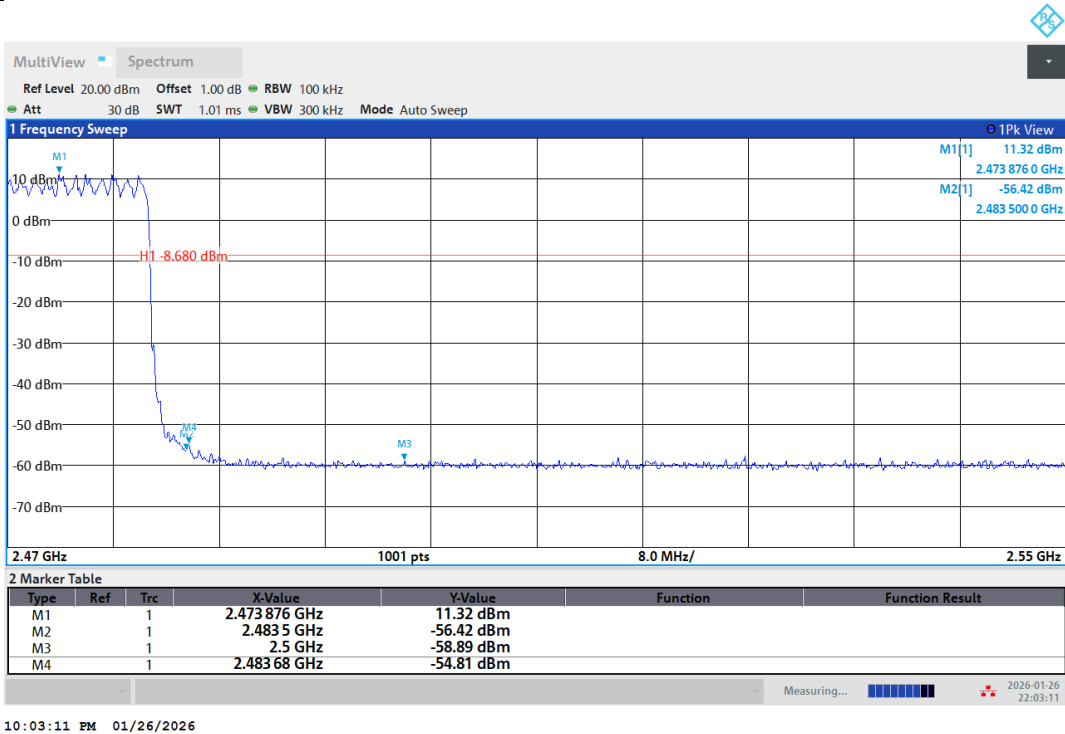
2DH5-Ant1-2402-PASS



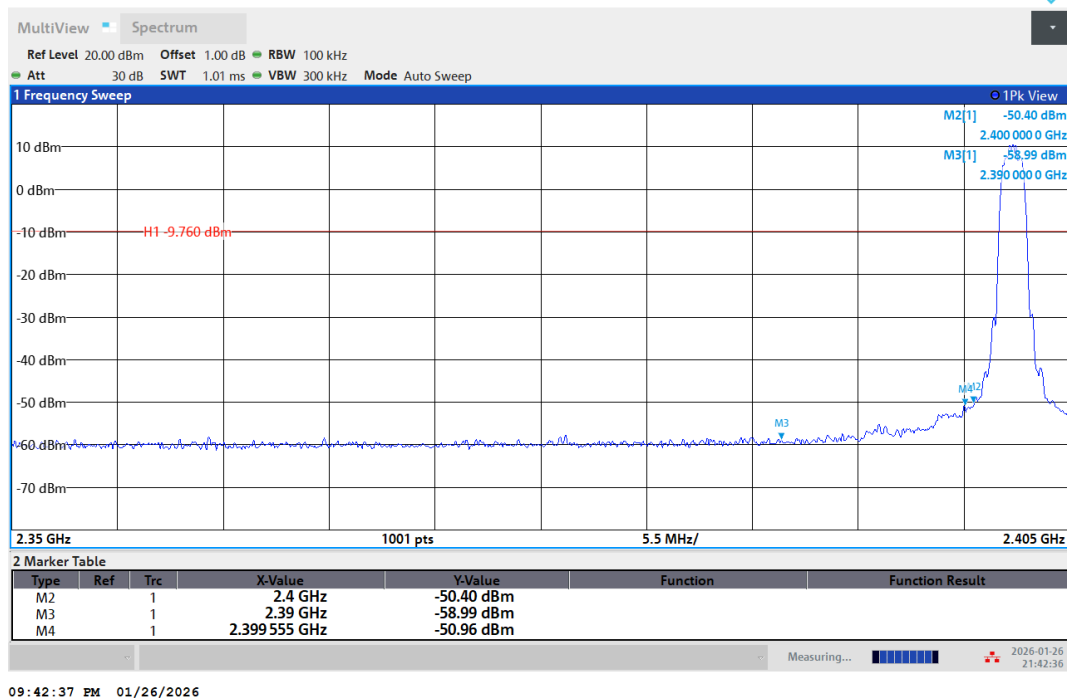
2DH5-Ant1-2480-PASS



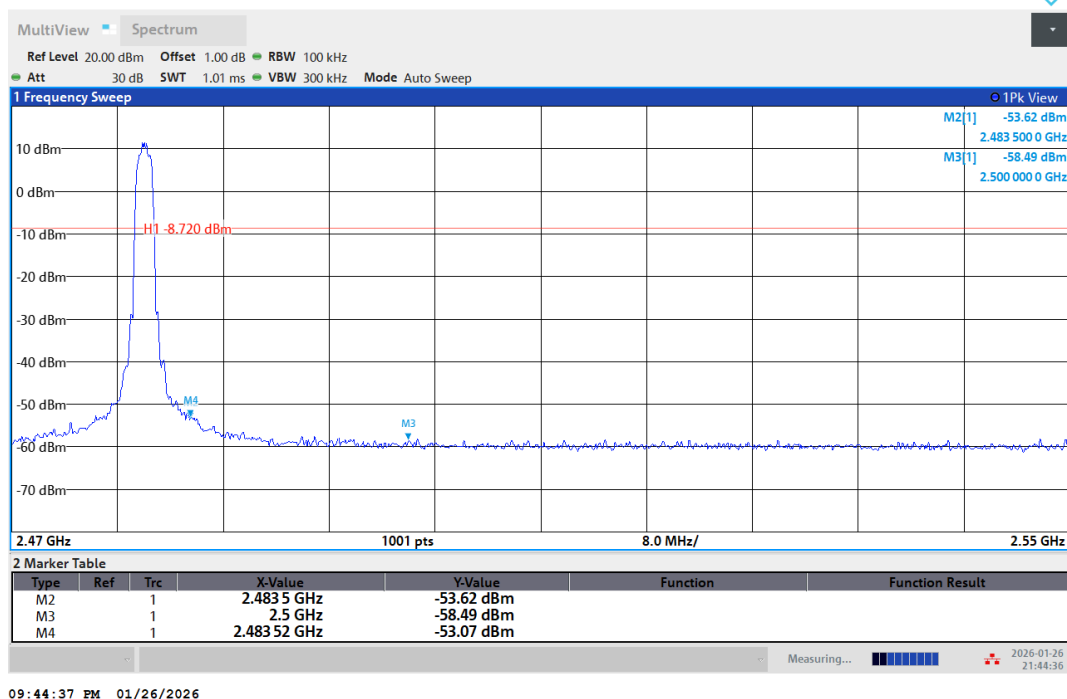
2DH5-Ant1-Hop_2402-PASS



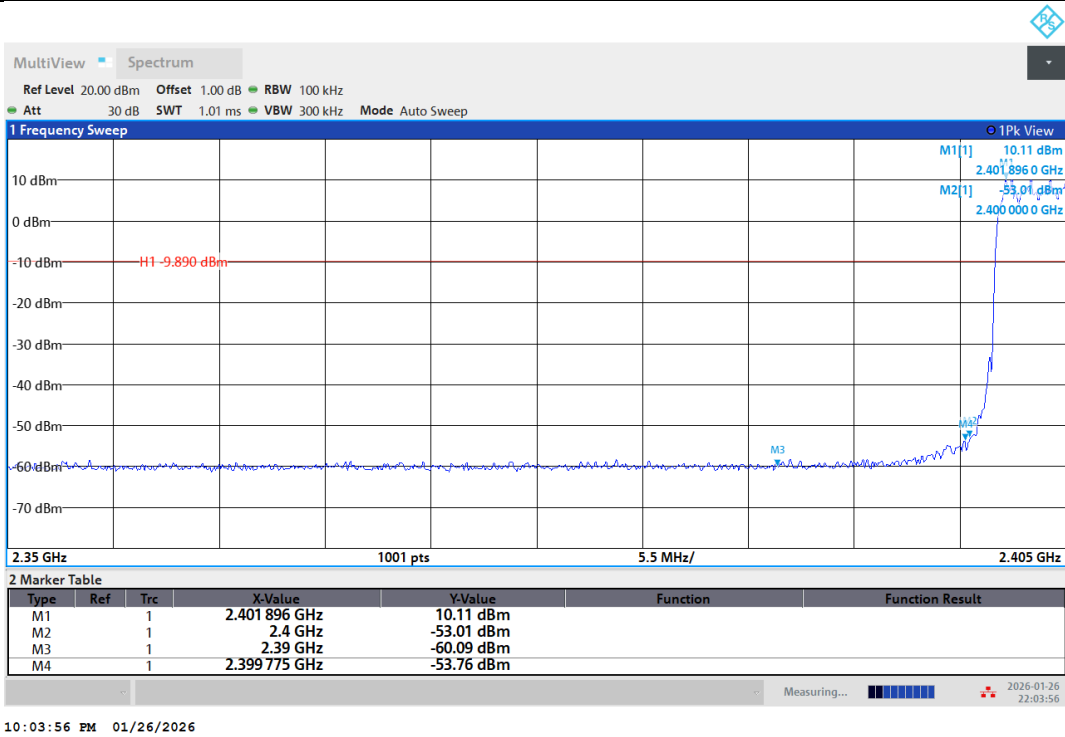
2DH5-Ant1-Hop_2480-PASS



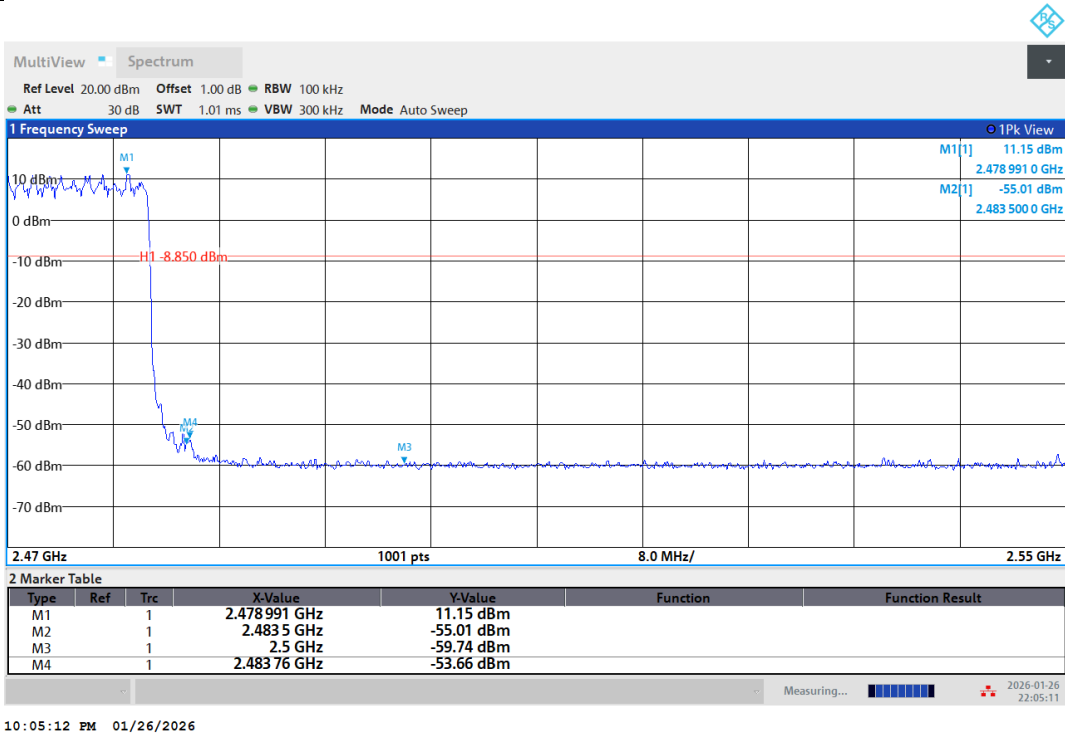
3DH5-Ant1-2402-PASS



3DH5-Ant1-2480-PASS

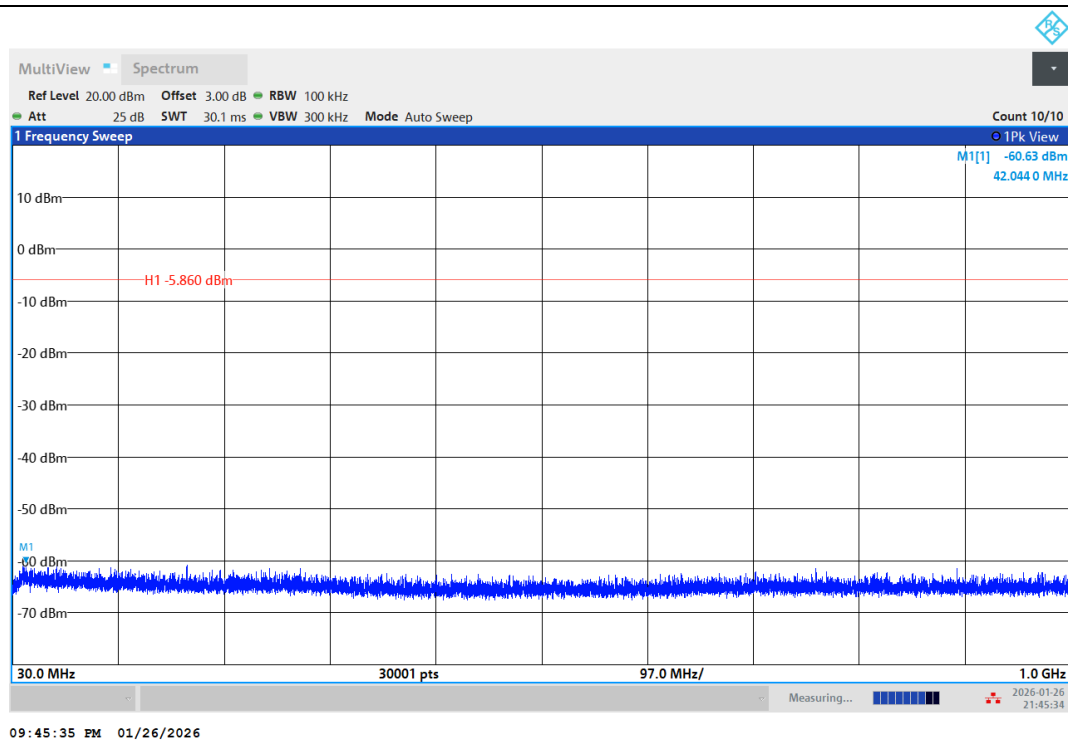


3DH5-Ant1-Hop_2402-PASS

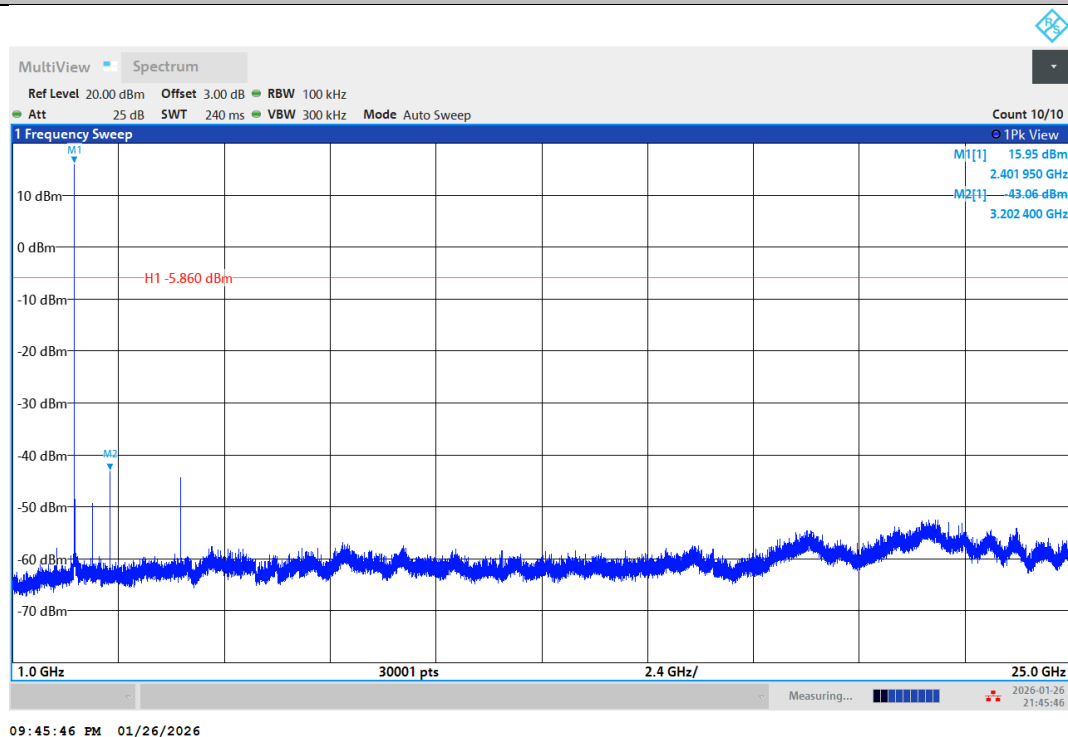


3DH5-Ant1-Hop_2480-PASS

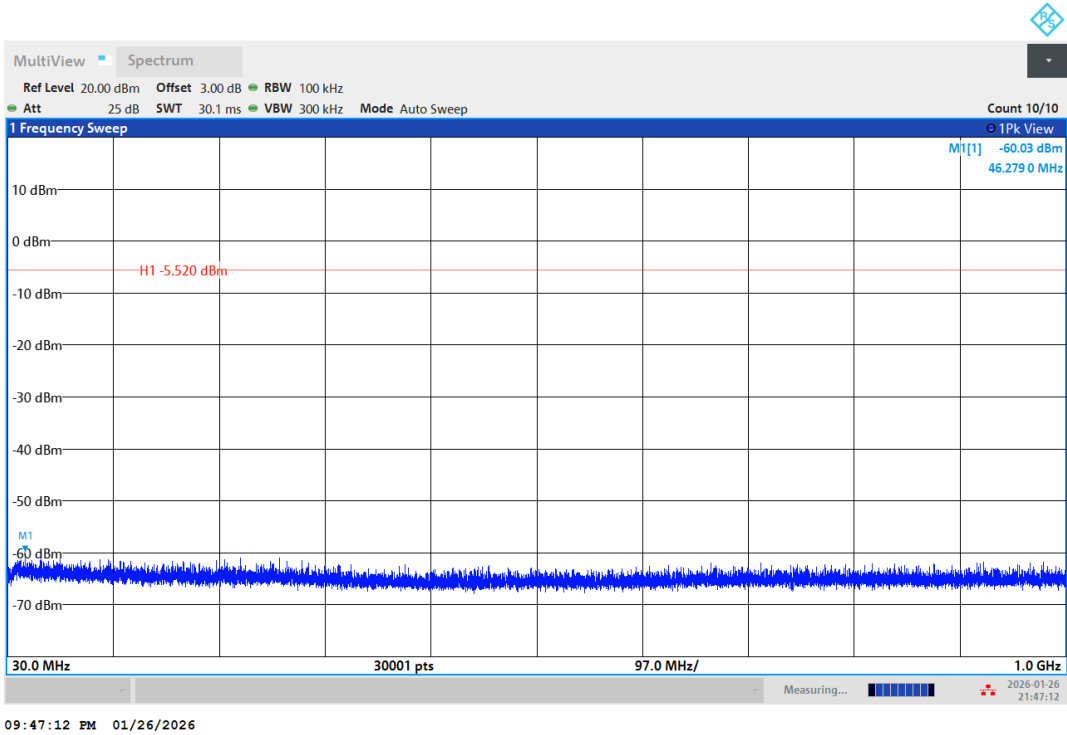
Test Graphs for Spurious Emission



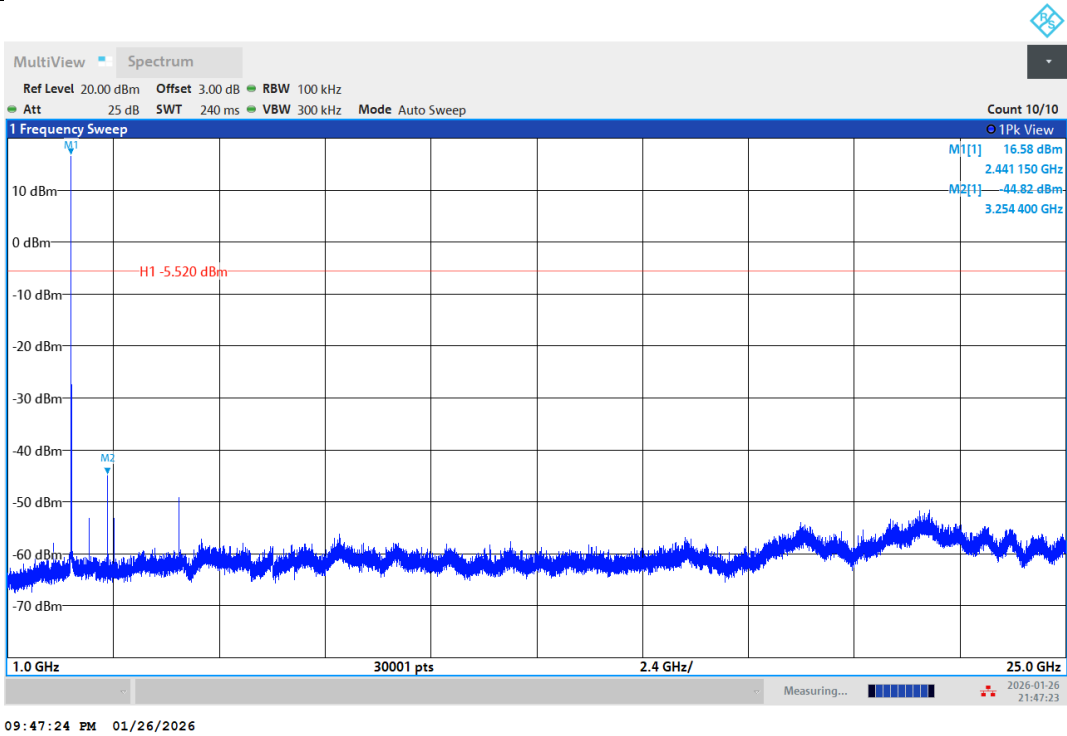
DH5-Ant1-2402-30~1000-PASS



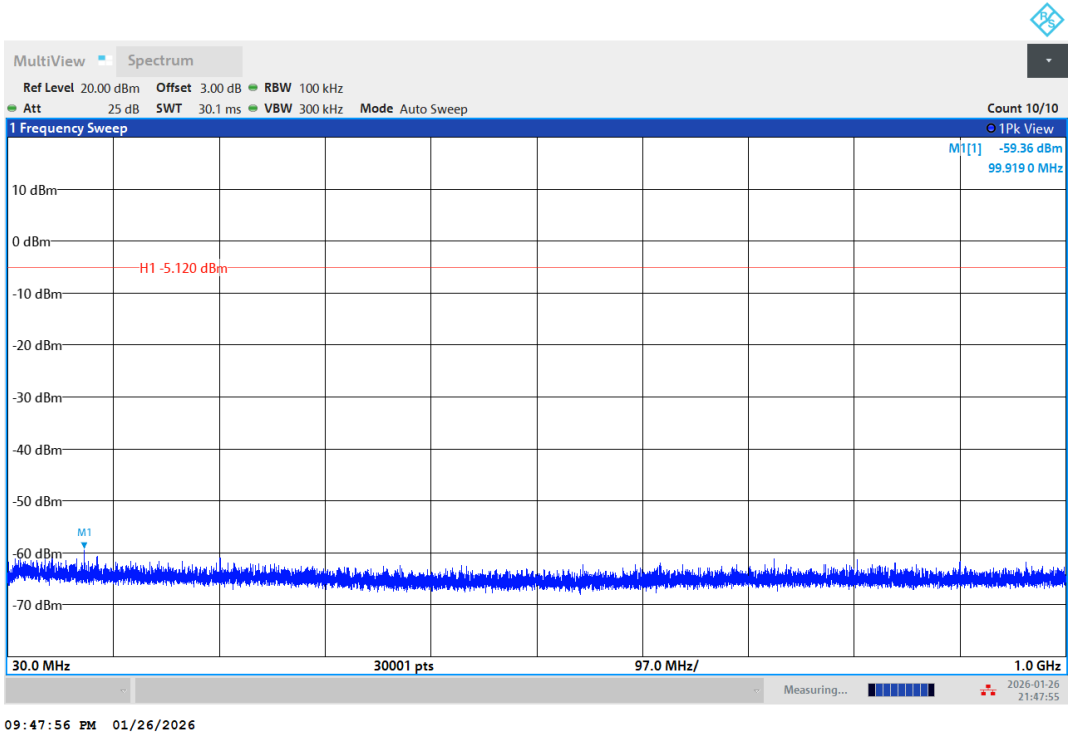
DH5-Ant1-2402-1000~25000-PASS



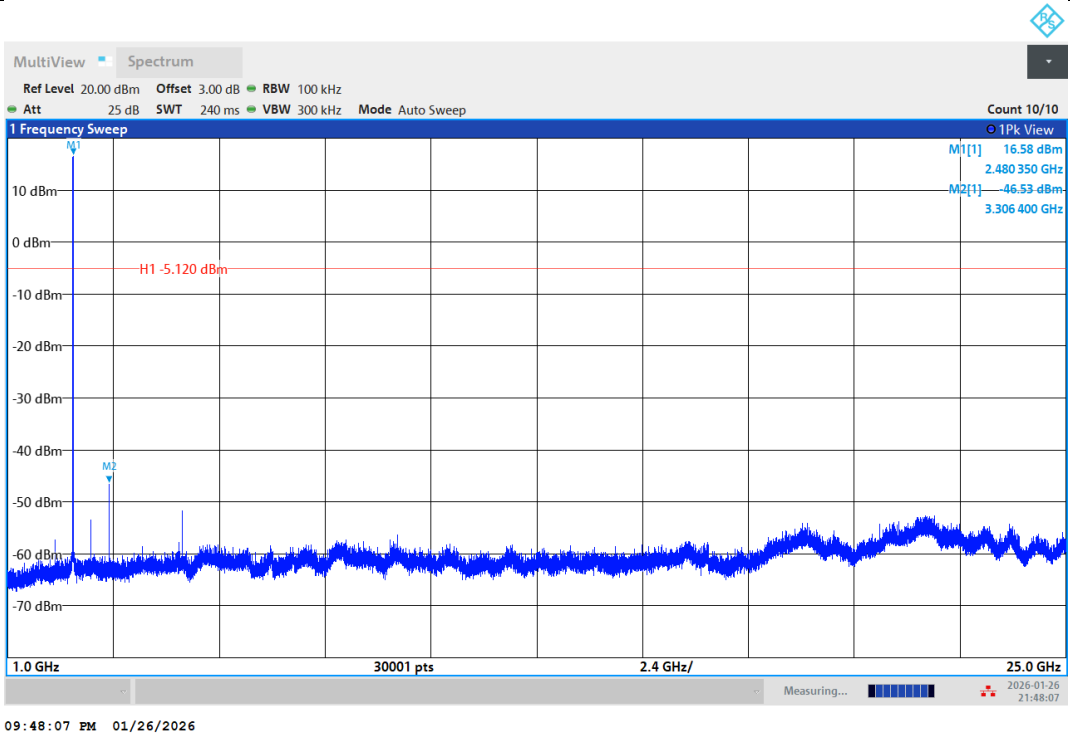
DH5-Ant1-2441-30~1000-PASS



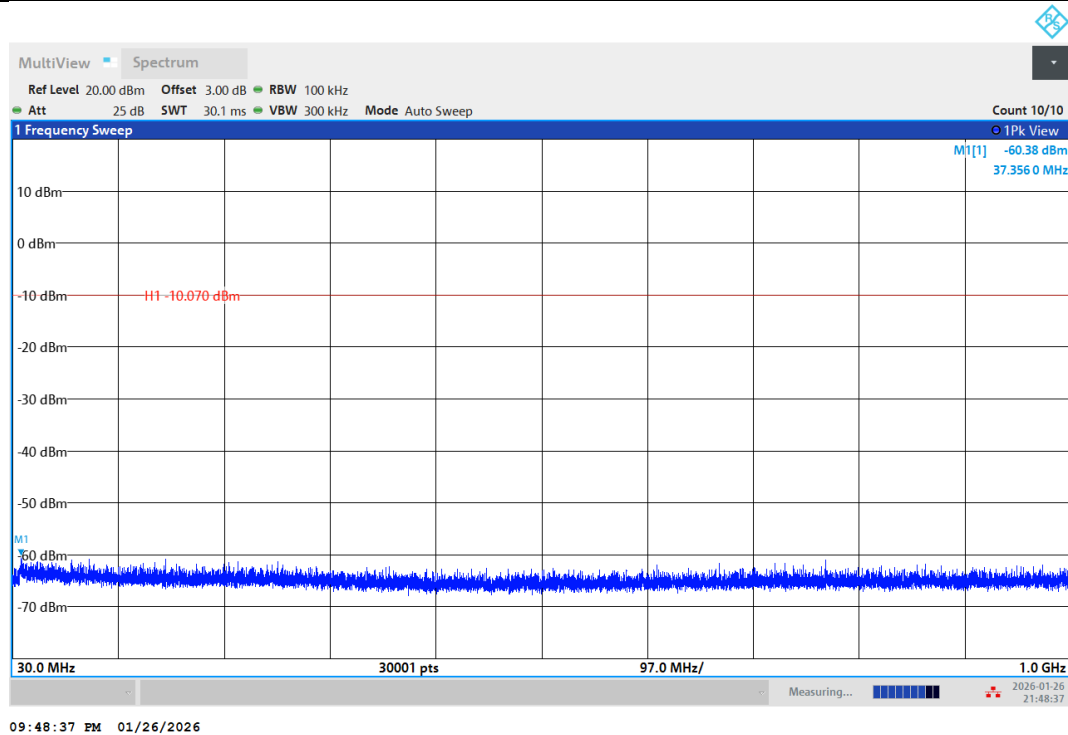
DH5-Ant1-2441-1000~25000-PASS



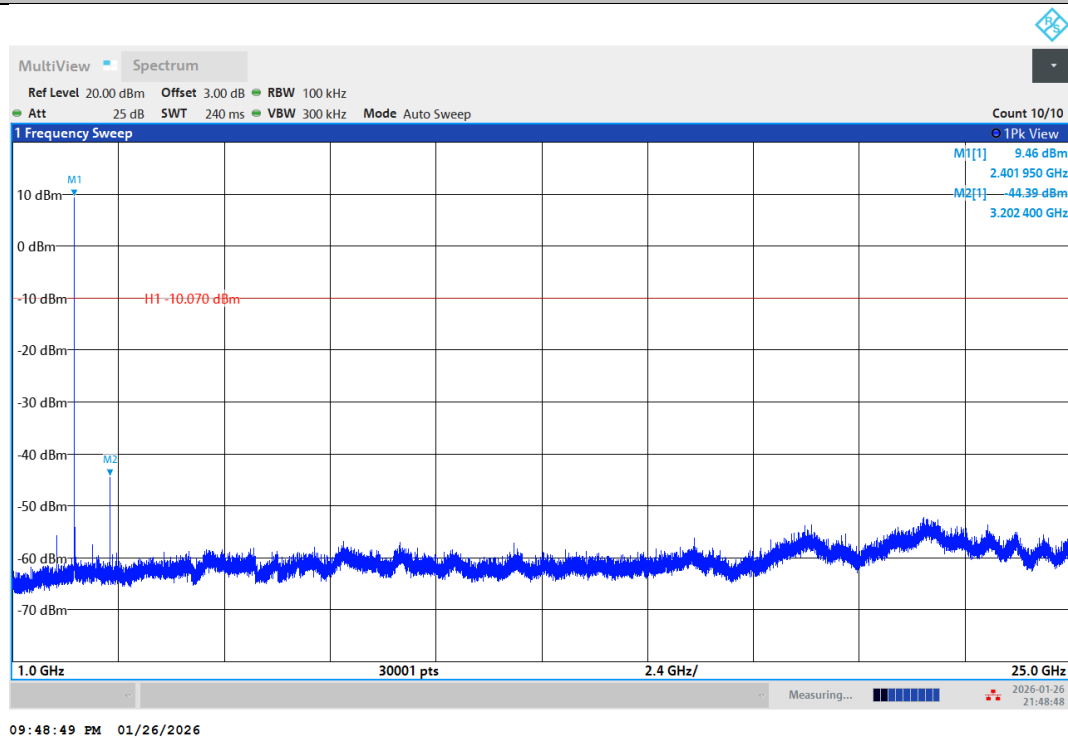
DH5-Ant1-2480-30~1000-PASS



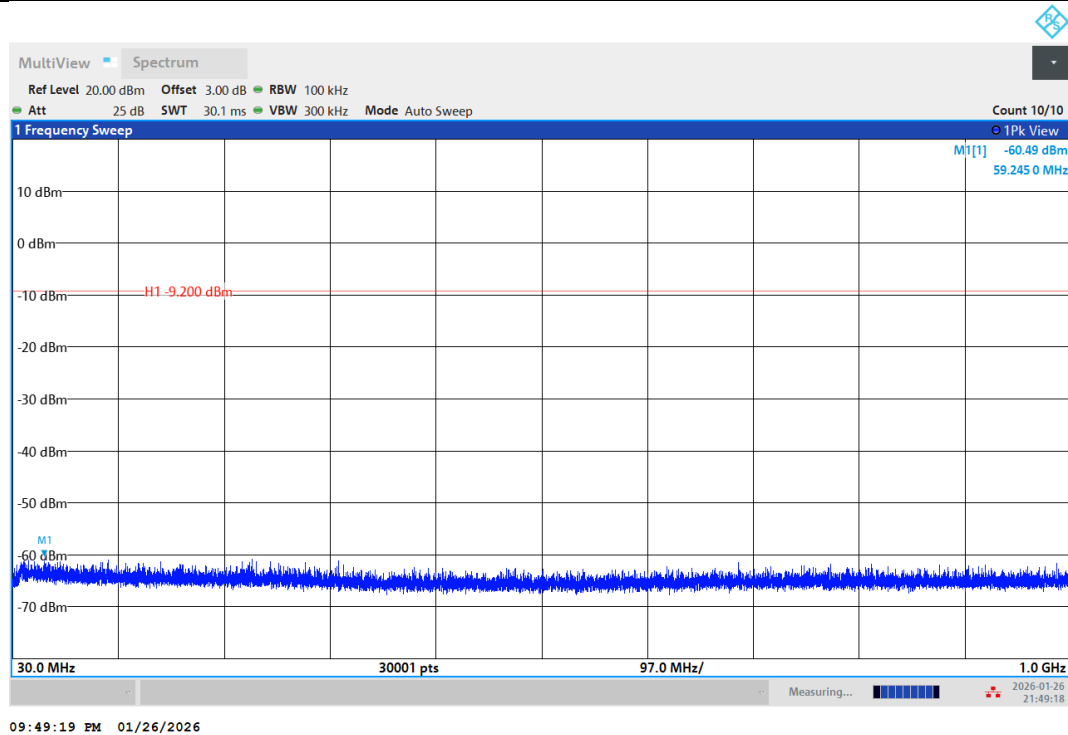
DH5-Ant1-2480-1000~25000-PASS



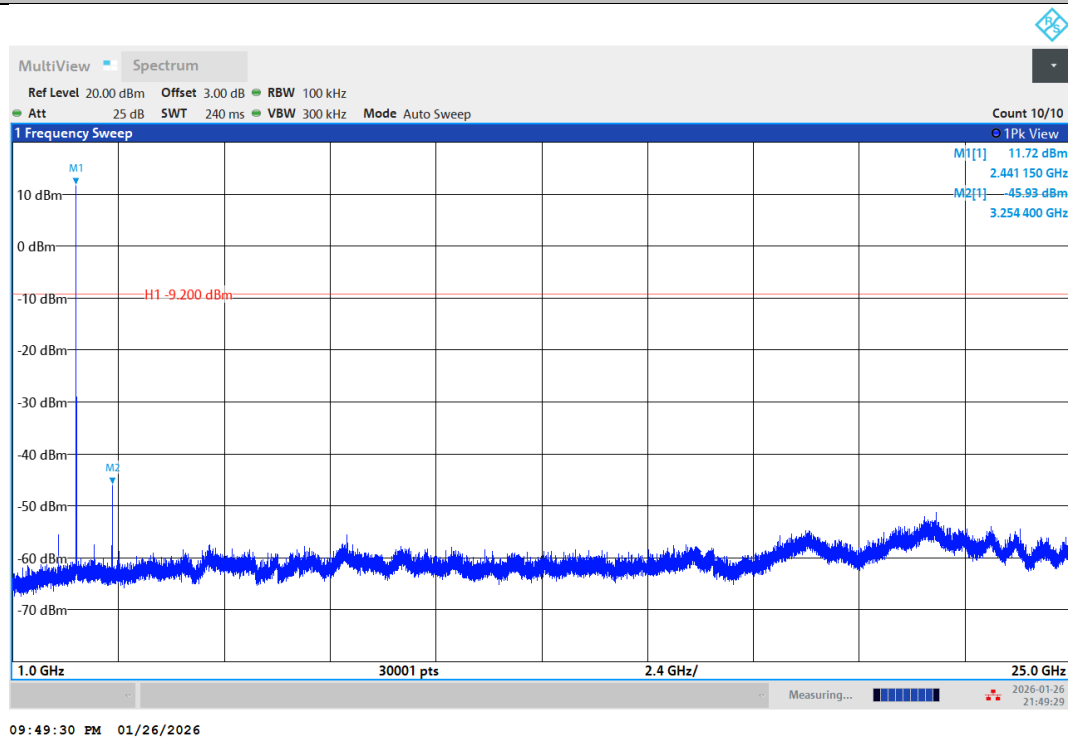
2DH5-Ant1-2402-30~1000-PASS



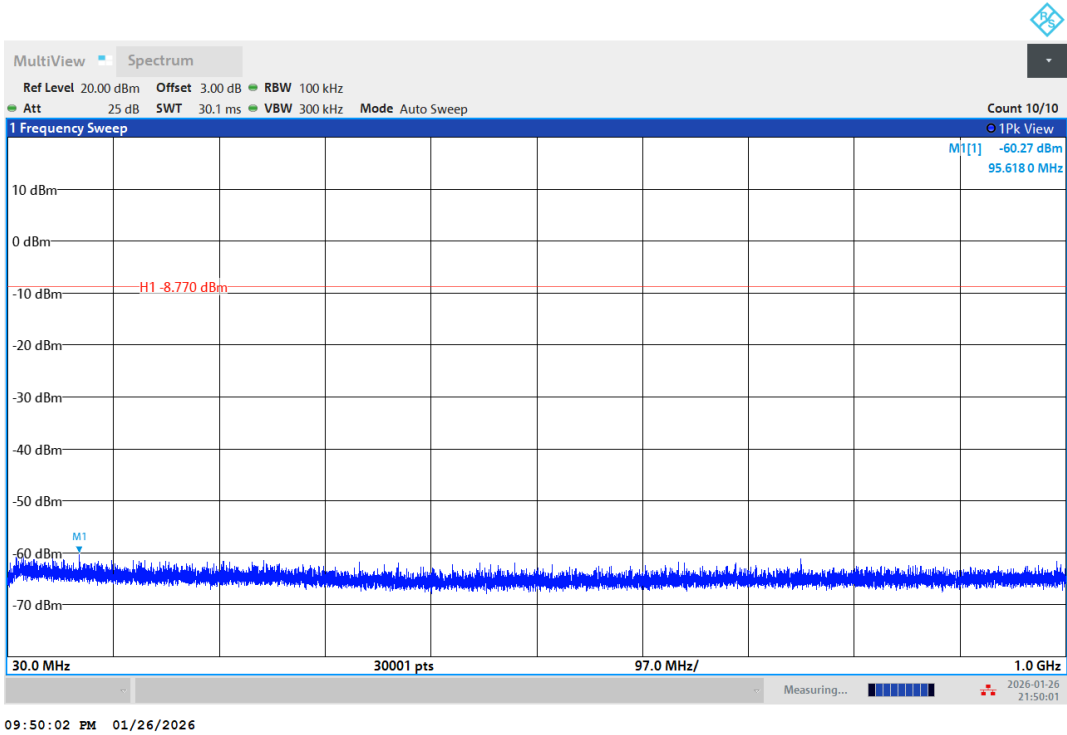
2DH5-Ant1-2402-1000~25000-PASS



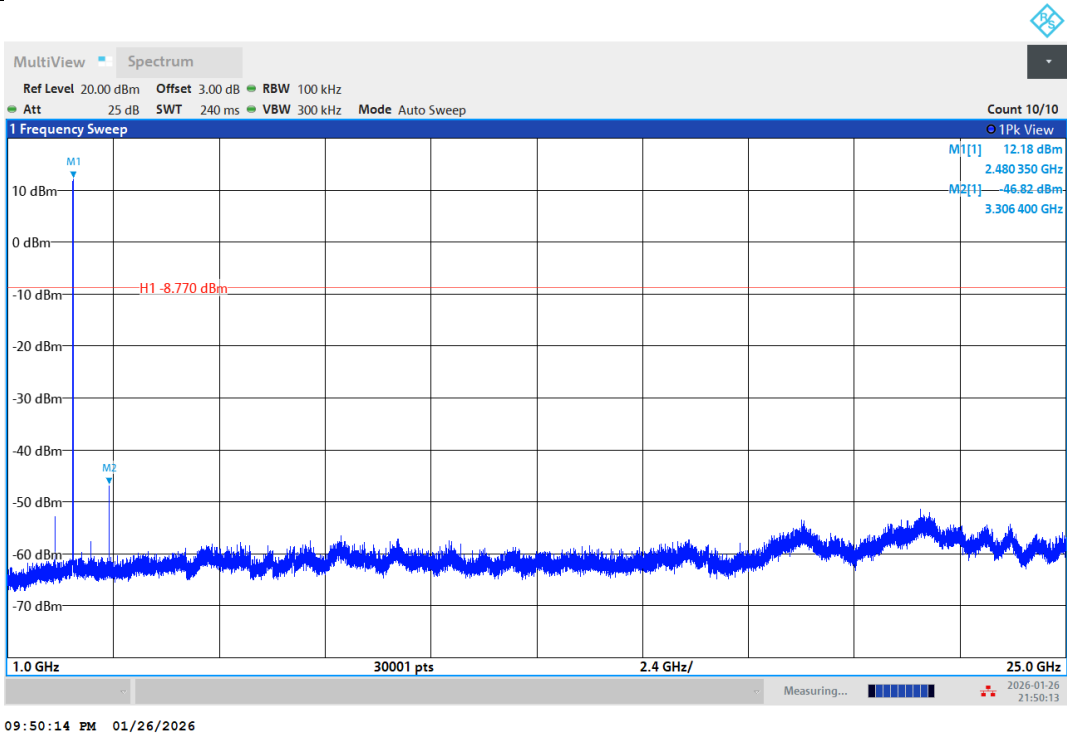
2DH5-Ant1-2441-30~1000-PASS



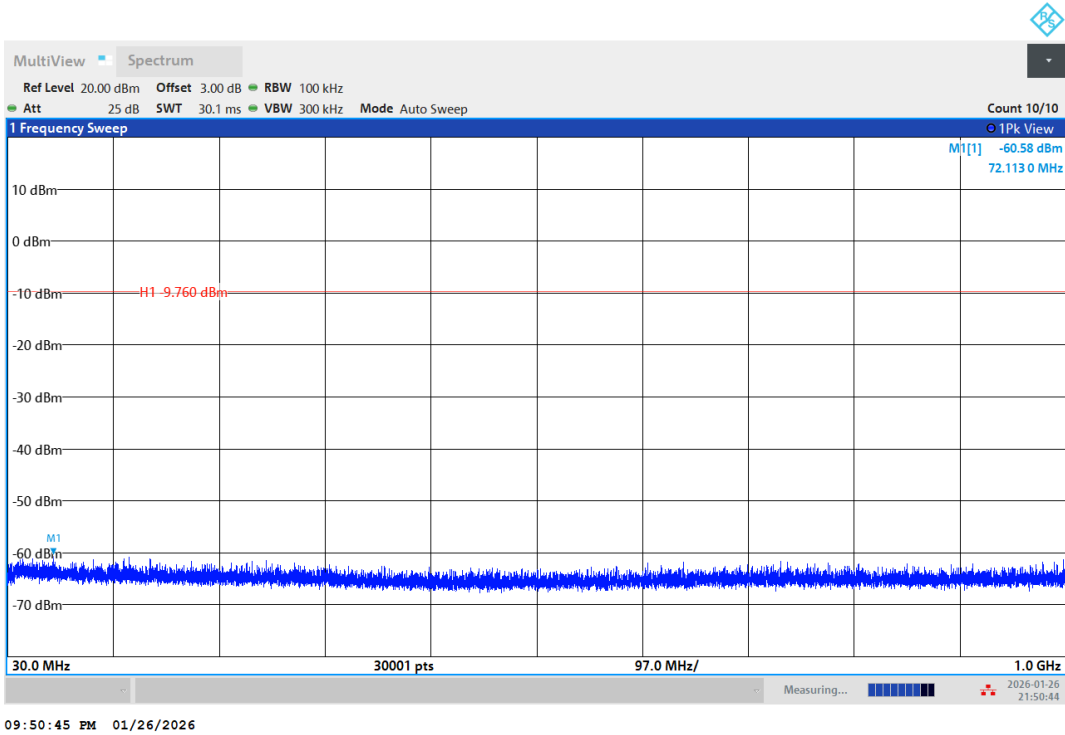
2DH5-Ant1-2441-1000~25000-PASS



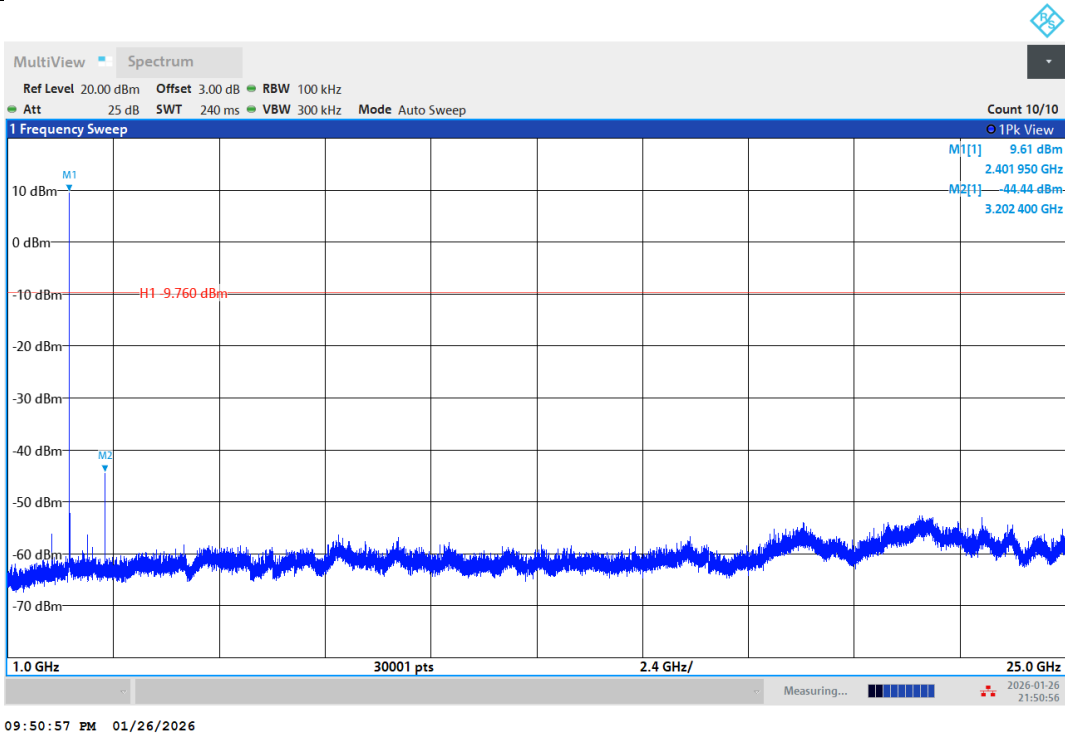
2DH5-Ant1-2480-30~1000-PASS



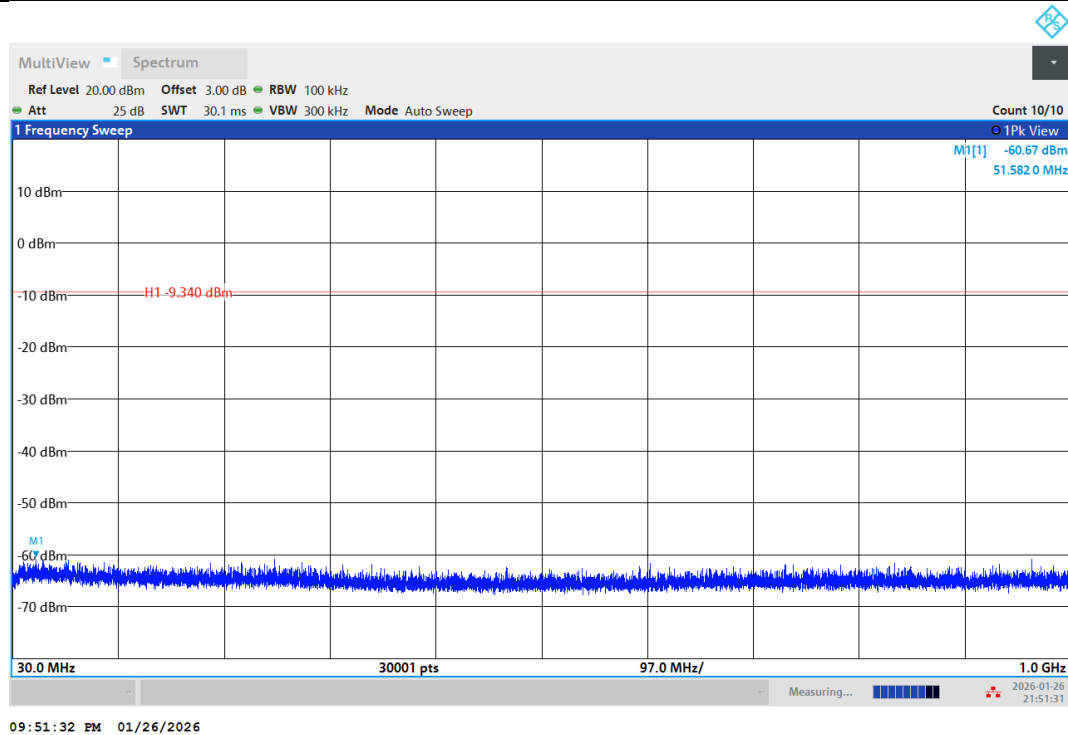
2DH5-Ant1-2480-1000~25000-PASS



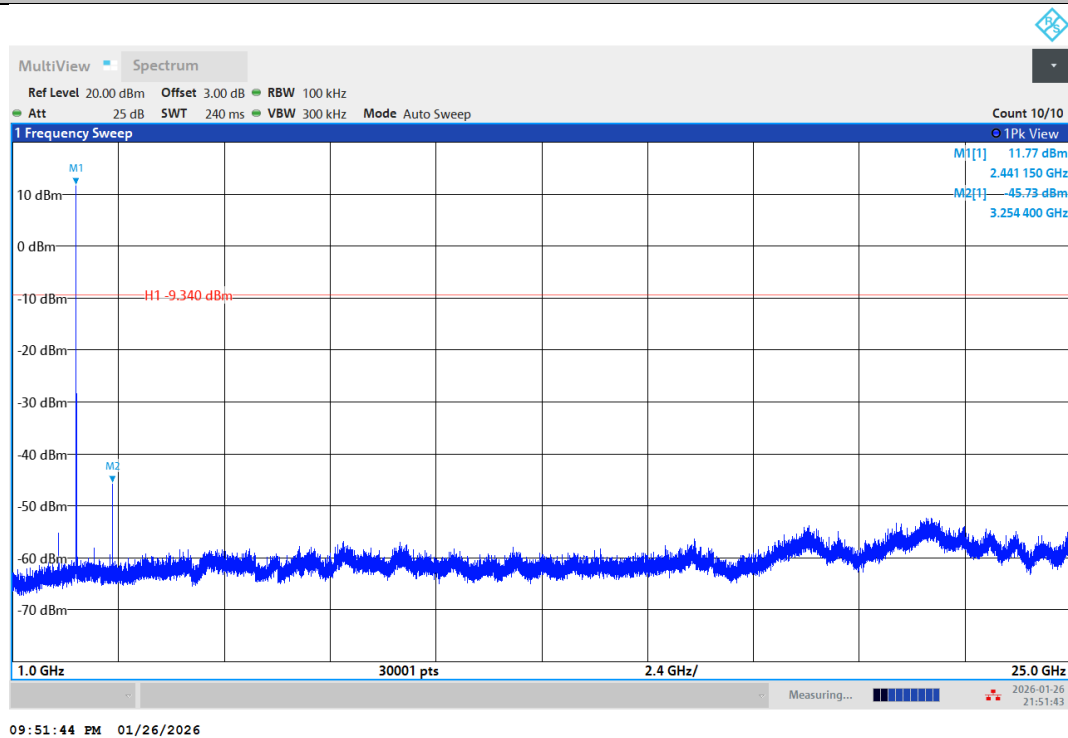
3DH5-Ant1-2402-30~1000-PASS



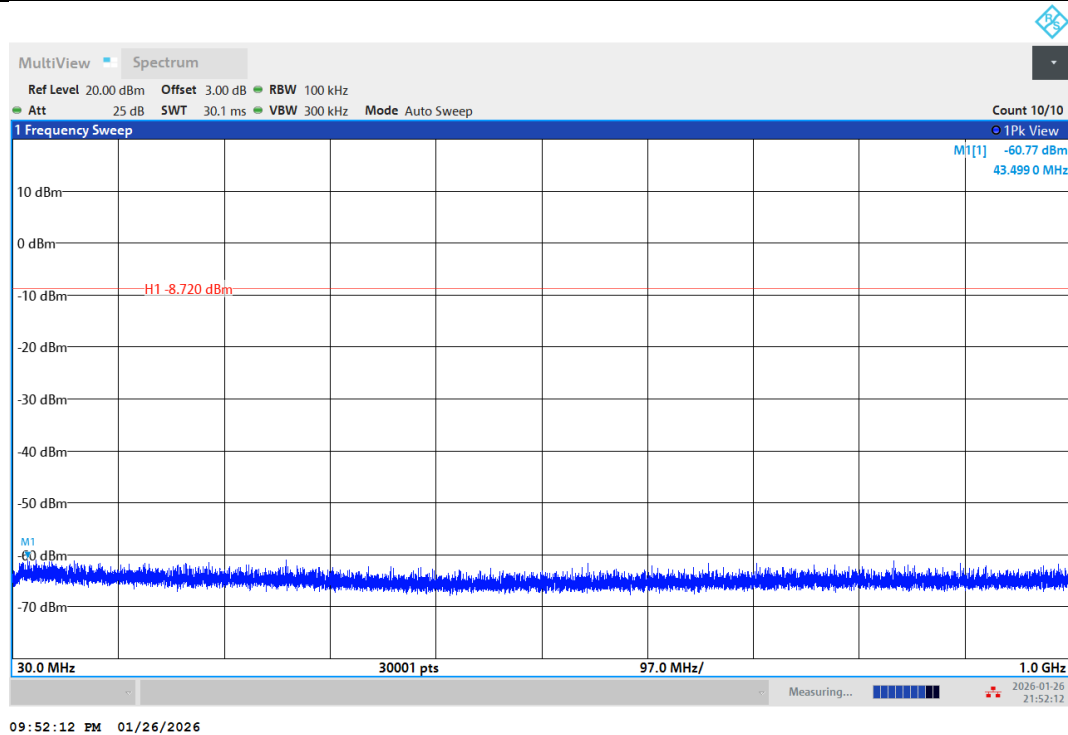
3DH5-Ant1-2402-1000~25000-PASS



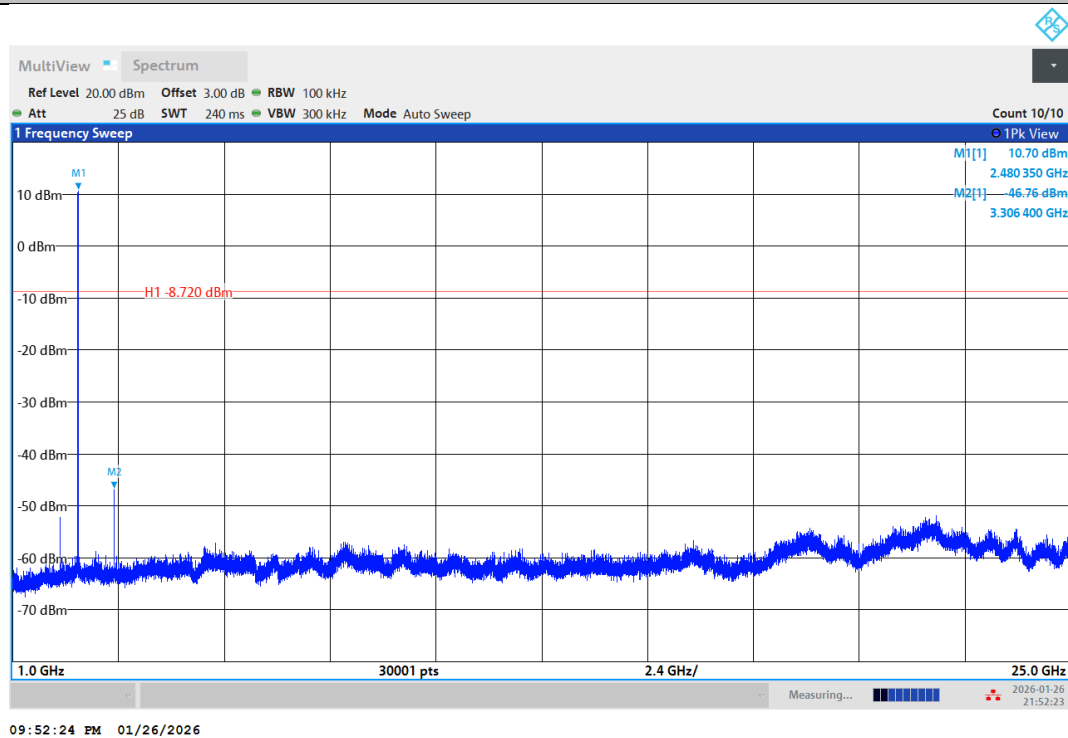
3DH5-Ant1-2441-30~1000-PASS



3DH5-Ant1-2441-1000~25000-PASS



3DH5-Ant1-2480-30~1000-PASS



3DH5-Ant1-2480-1000~25000-PASS

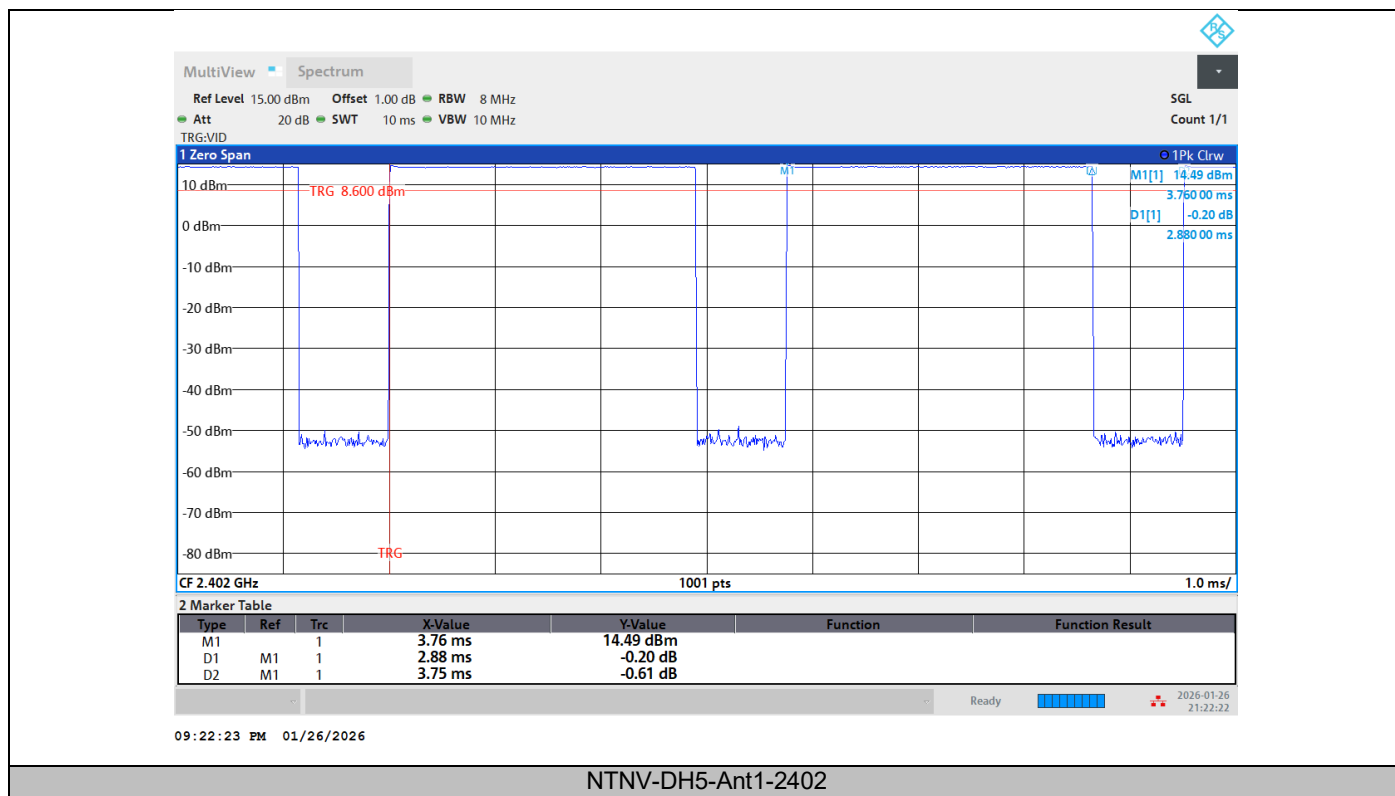
Notes:

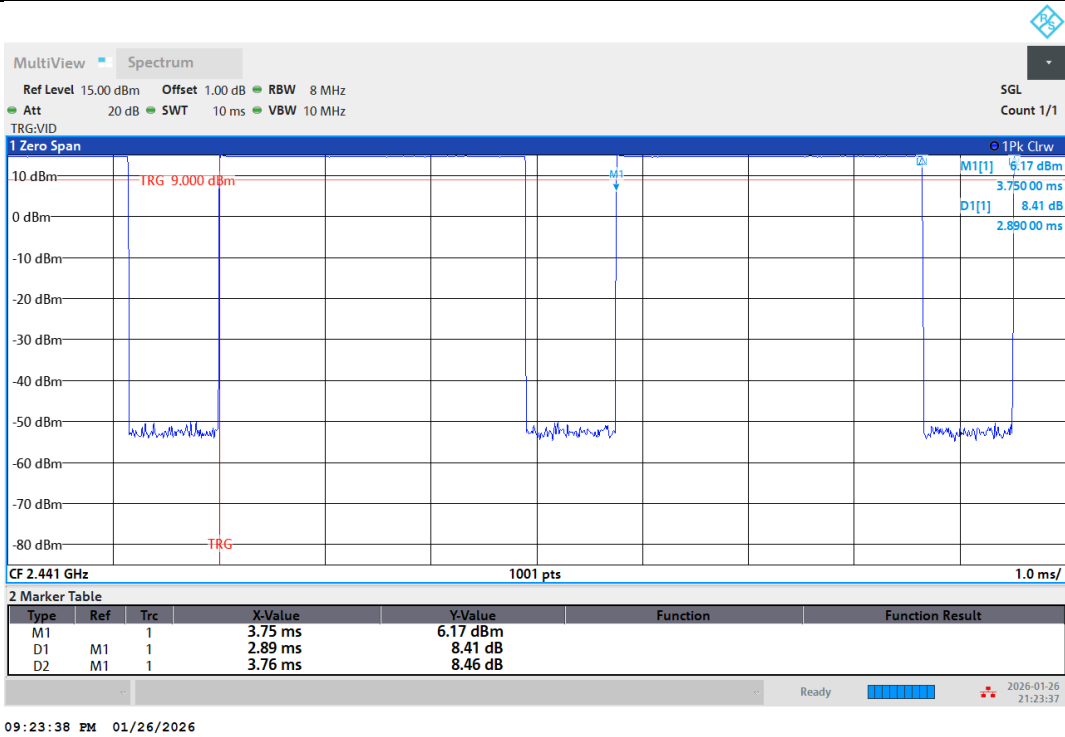
1. Offset = Cable loss

Duty cycle

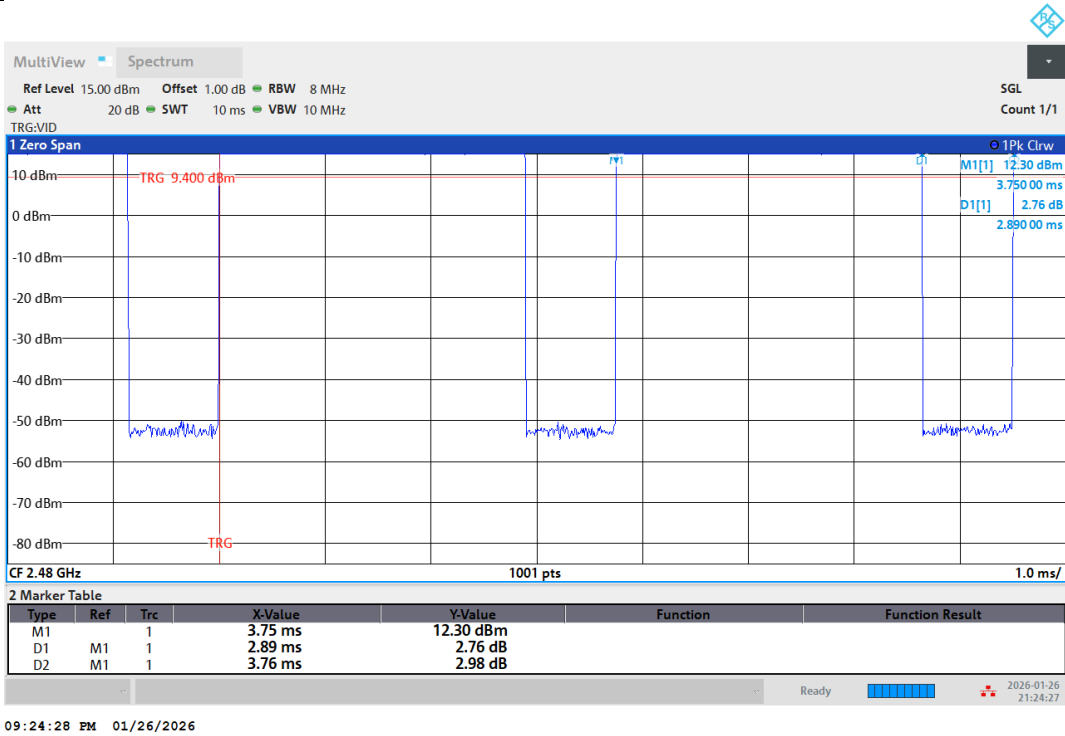
TestMode	Antenna	Frequency[MHz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.88	3.75	76.80	1.15
		2441	2.89	3.76	76.86	1.14
		2480	2.89	3.76	76.86	1.14
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.89	3.76	76.86	1.14
3DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.89	3.75	77.07	1.13
		2480	2.89	3.75	77.07	1.13

Test Graphs

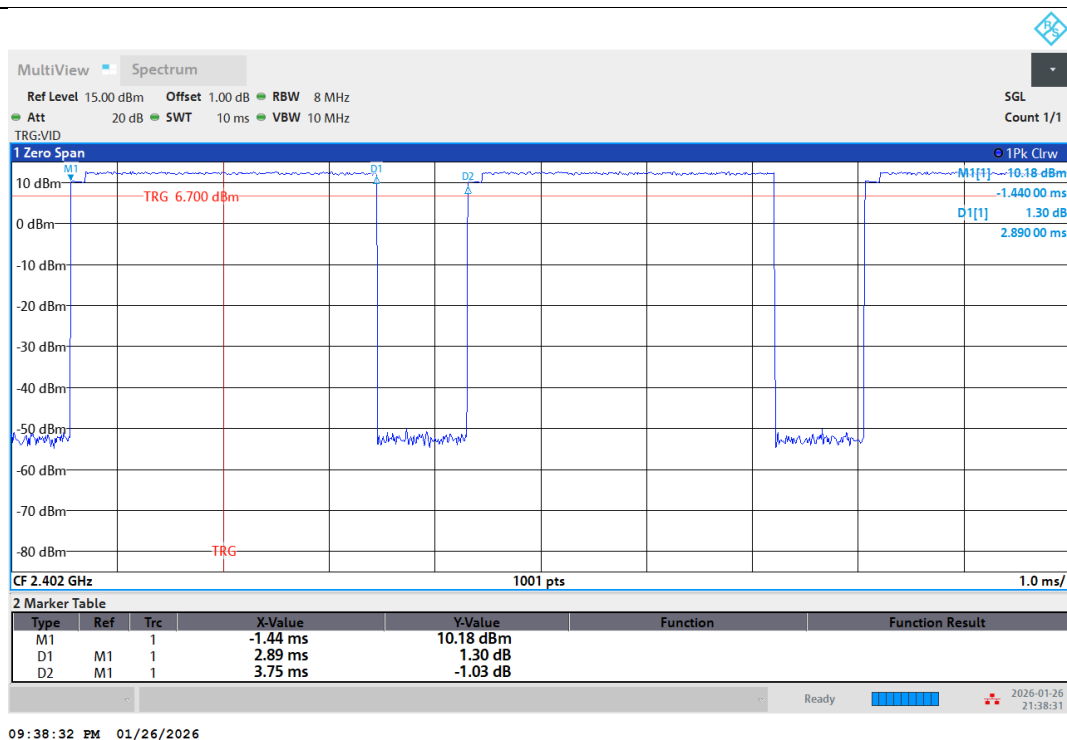




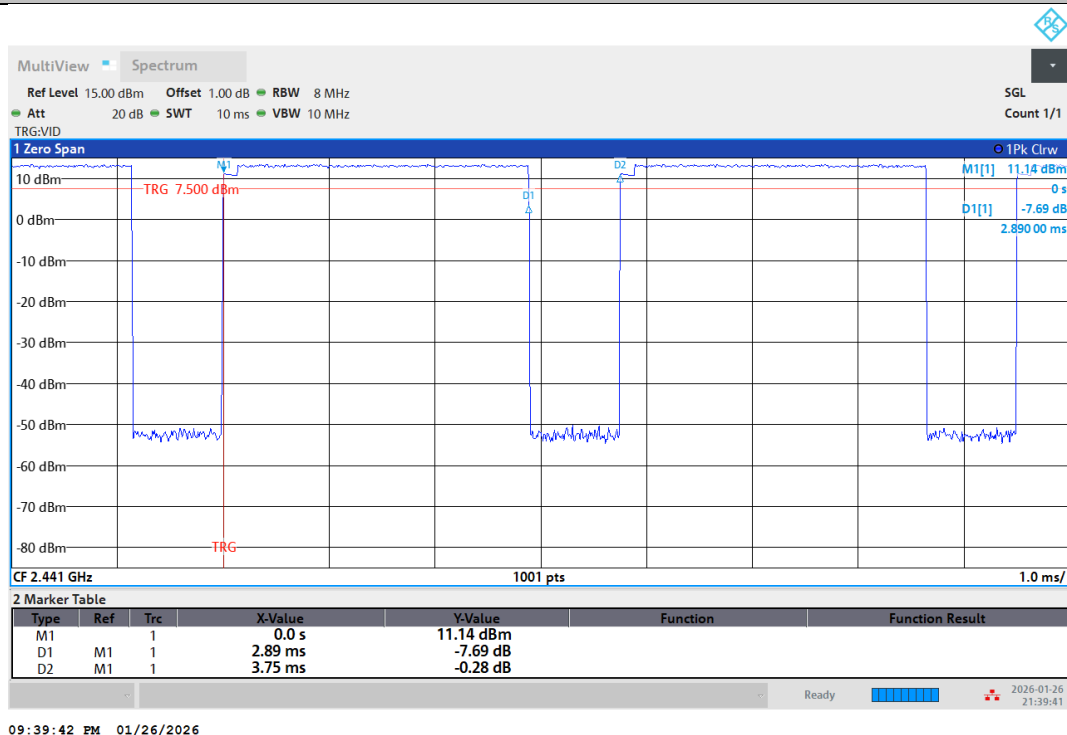
NTNV-DH5-Ant1-2441



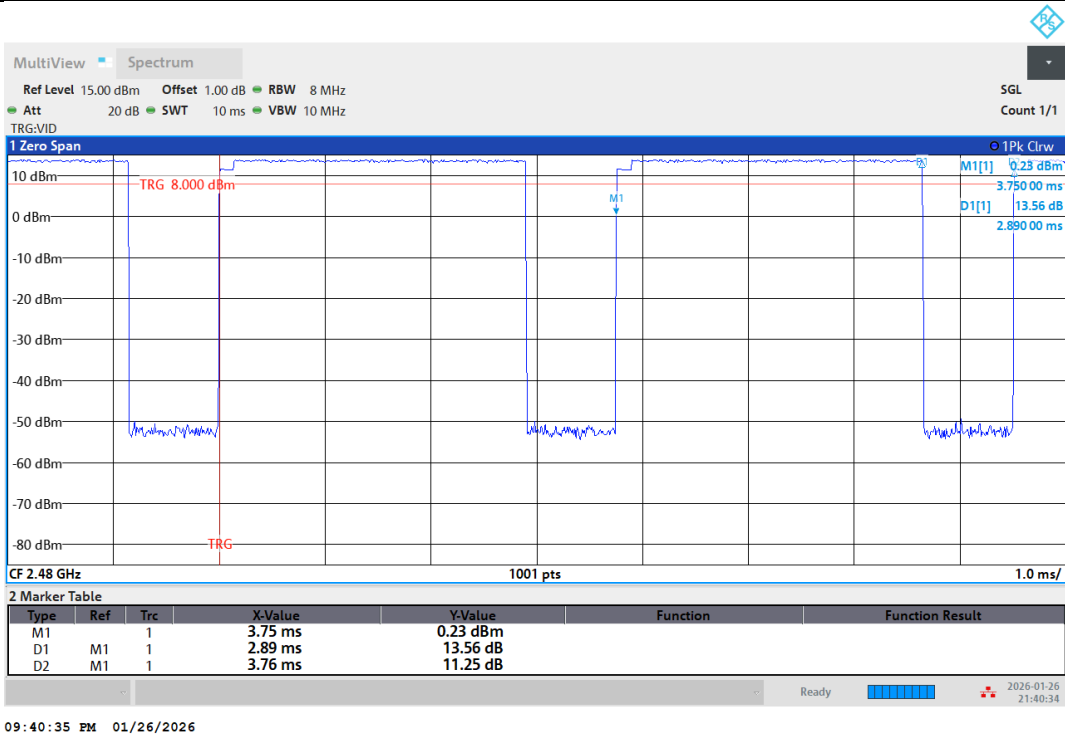
NTNV-DH5-Ant1-2480



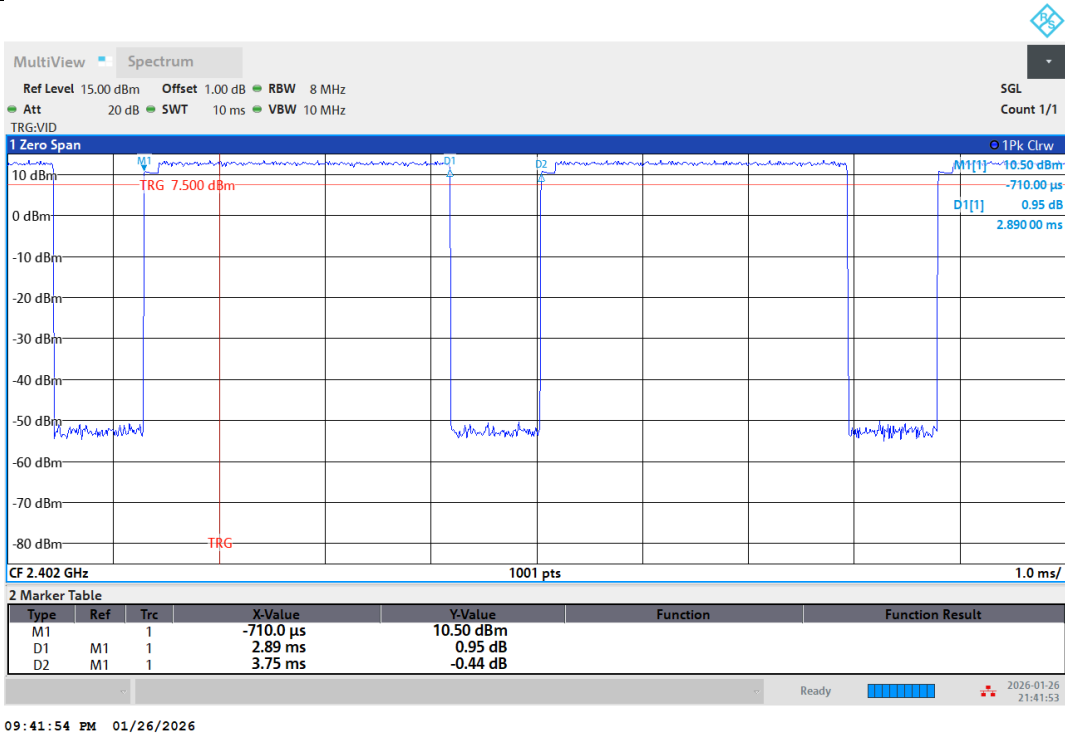
NTNV-2DH5-Ant1-2402



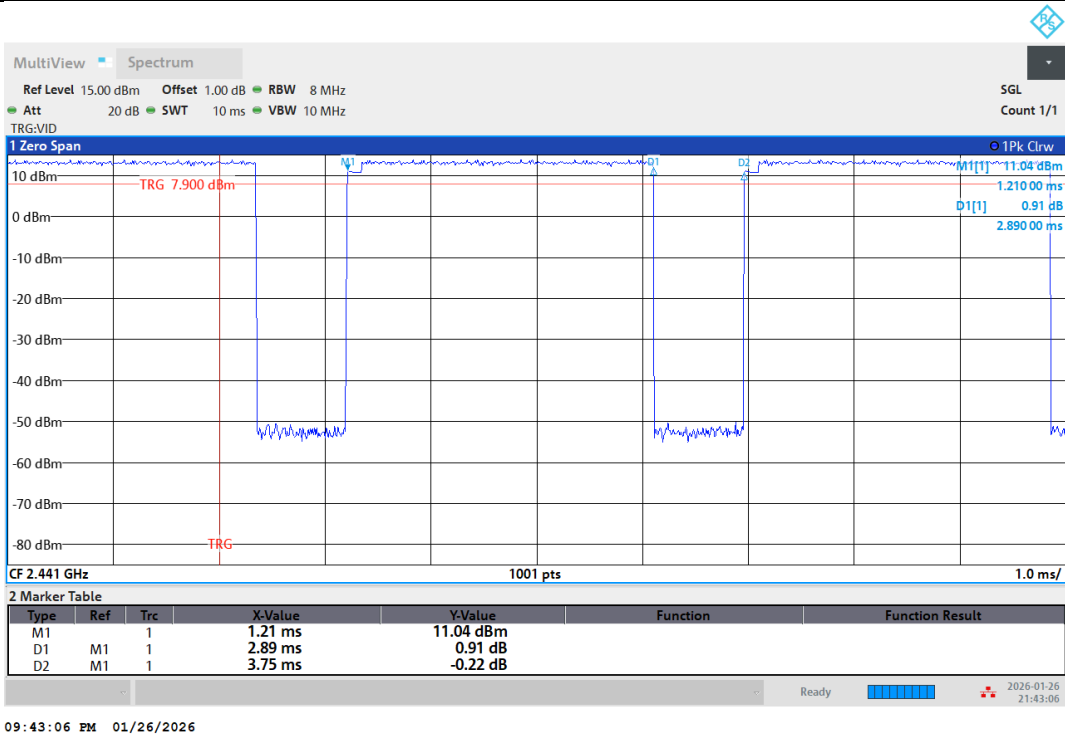
NTNV-2DH5-Ant1-2441



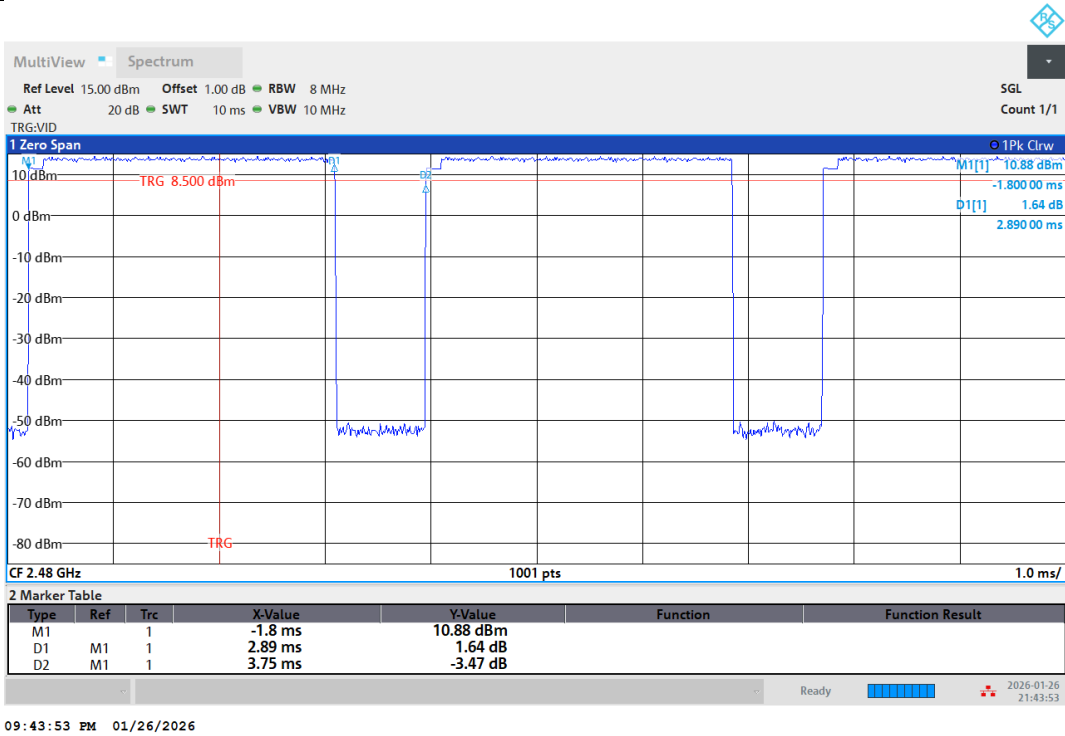
NTNV-2DH5-Ant1-2480



NTNV-3DH5-Ant1-2402



NTNV-3DH5-Ant1-2441

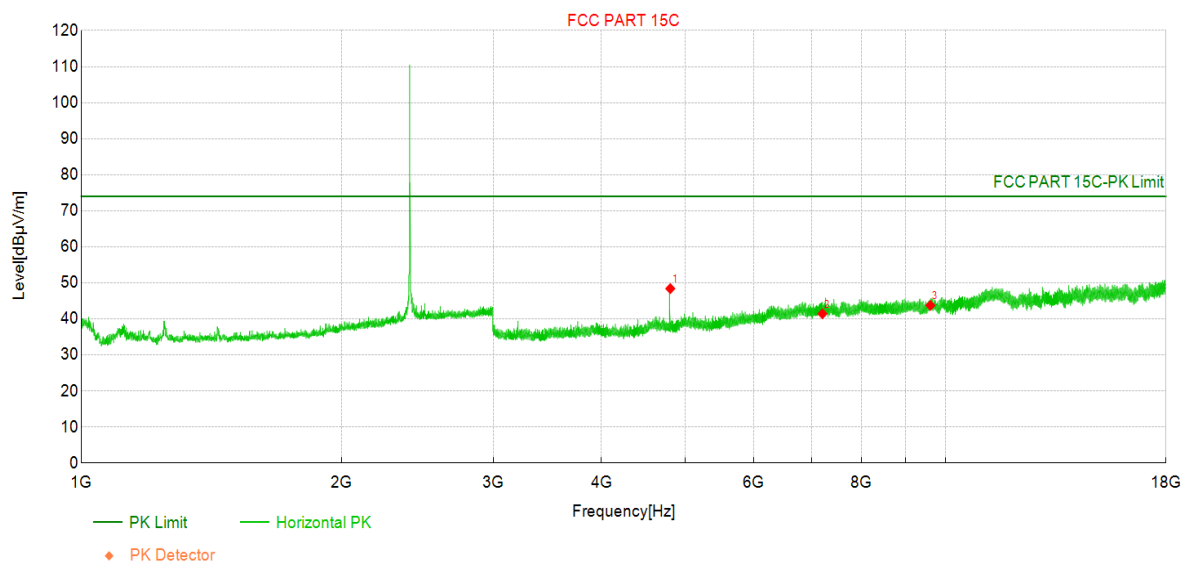


NTNV-3DH5-Ant1-2480

Emissions in Restricted Bands

Transmit at 2402MHz by DH5

Test Graph

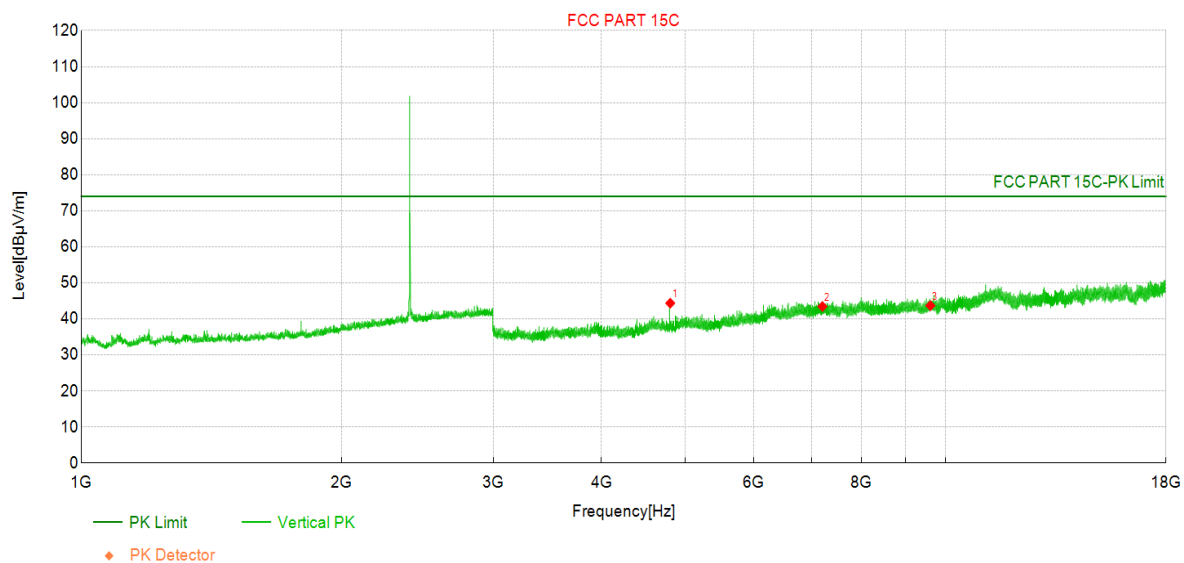


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.41	57.40	48.41	-8.96	74.00	25.59	PK	Horizo	PASS
	4804.41	-	23.62	-	54.00	30.38	AV	Horizo	PASS
2	7206.00	43.60	41.42	-2.13	74.00	32.58	PK	Horizo	PASS
	7206.00	-	16.63	-	54.00	37.37	AV	Horizo	PASS
3	9608.00	43.00	43.75	0.76	74.00	30.25	PK	Horizo	PASS
	9608.00	-	18.96	-	54.00	35.04	AV	Horizo	PASS

Transmit at 2402MHz by DH5

Test Graph

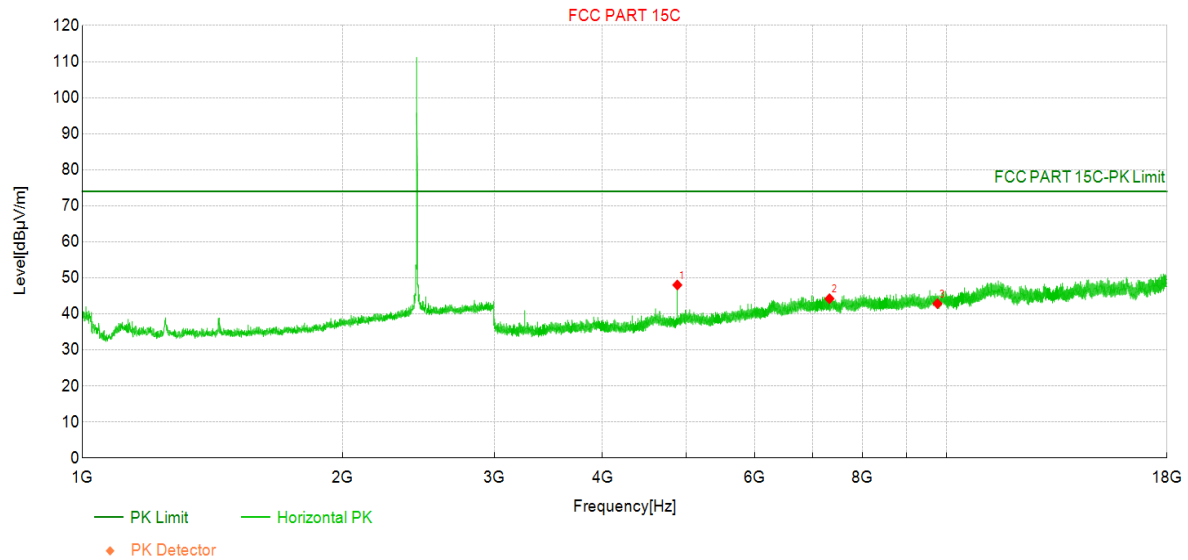


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4803.97	53.30	44.36	-8.96	74.00	29.64	PK	Vertic	PASS
	4803.97	-	19.57	-	54.00	34.43	AV	Vertic	PASS
2	7206.00	45.60	43.45	-2.13	74.00	30.55	PK	Vertic	PASS
	7206.00	-	18.66	-	54.00	35.34	AV	Vertic	PASS
3	9608.00	42.90	43.69	0.76	74.00	30.31	PK	Vertic	PASS
	9608.00	-	18.90	-	54.00	35.10	AV	Vertic	PASS

Transmit at 2441MHz by DH5

Test Graph

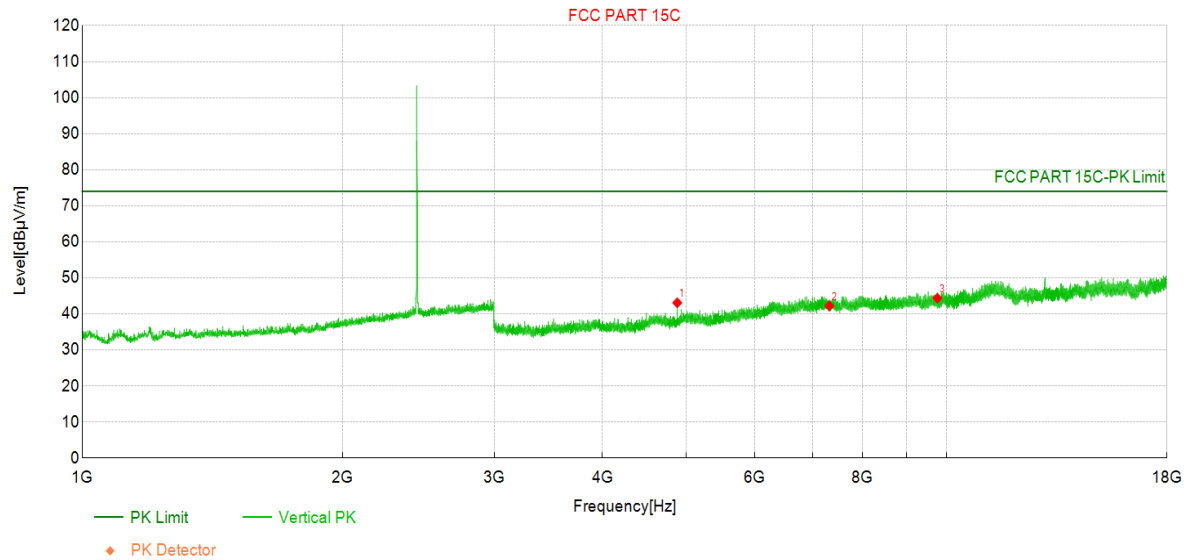


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4882.50	56.60	48.02	-8.58	74.00	25.98	PK	Horizo	PASS
	4882.50	-	23.23	-	54.00	30.77	AV	Horizo	PASS
2	7323.00	46.10	44.21	-1.87	74.00	29.79	PK	Horizo	PASS
	7323.00	-	19.42	-	54.00	34.58	AV	Horizo	PASS
3	9764.00	42.00	42.84	0.84	74.00	31.16	PK	Horizo	PASS
	9764.00	-	18.05	-	54.00	35.95	AV	Horizo	PASS

Transmit at 2441MHz by DH5

Test Graph

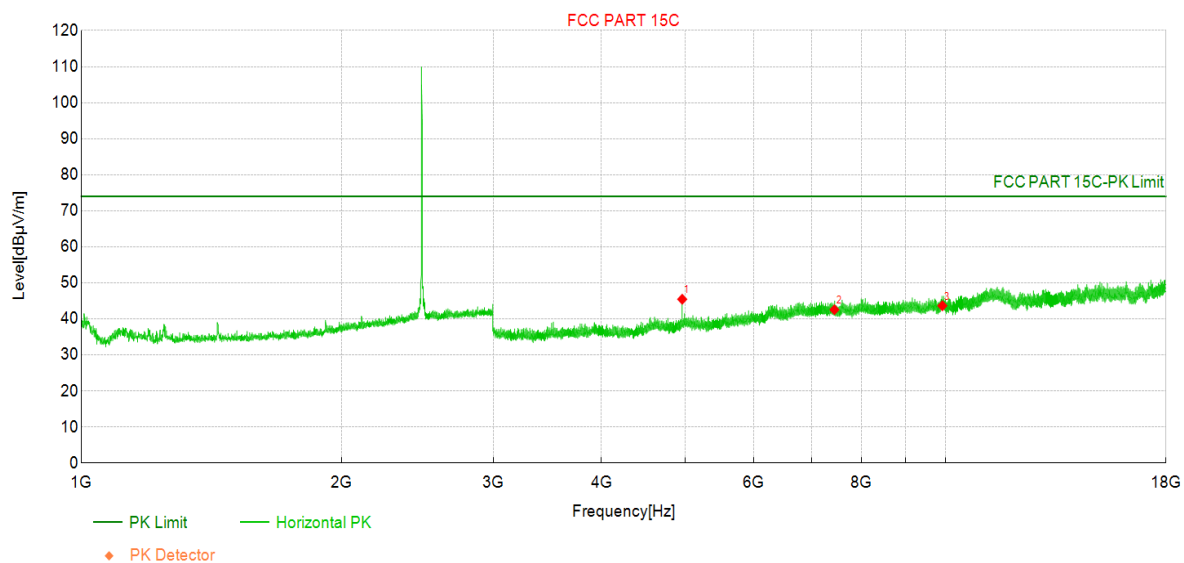


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4881.62	51.70	43.08	-8.58	74.00	30.92	PK	Vertic	PASS
	4881.62	-	18.29	-	54.00	35.71	AV	Vertic	PASS
2	7323.00	44.10	42.21	-1.87	74.00	31.79	PK	Vertic	PASS
	7323.00	-	17.42	-	54.00	36.58	AV	Vertic	PASS
3	9764.00	43.50	44.37	0.84	74.00	29.63	PK	Vertic	PASS
	9764.00	-	19.58	-	54.00	34.42	AV	Vertic	PASS

Transmit at 2480MHz by DH5

Test Graph

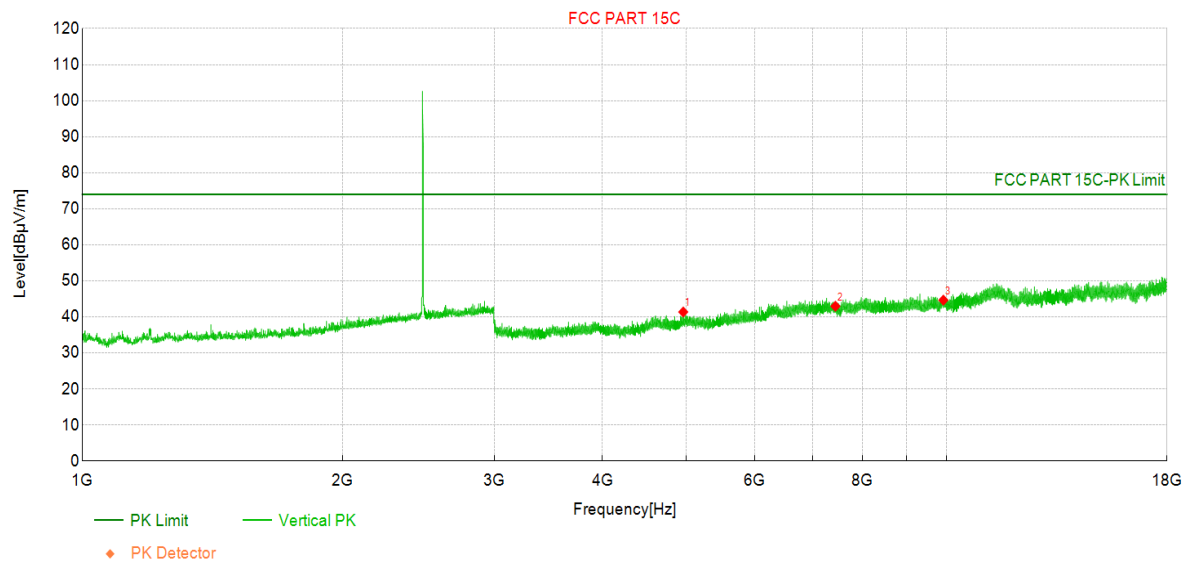


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4959.71	53.70	45.46	-8.25	74.00	28.54	PK	Horizo	PASS
	4959.71	-	20.67	-	54.00	33.33	AV	Horizo	PASS
2	7440.00	44.20	42.55	-1.69	74.00	31.45	PK	Horizo	PASS
	7440.00	-	17.76	-	54.00	36.24	AV	Horizo	PASS
3	9920.00	42.00	43.64	1.69	74.00	30.36	PK	Horizo	PASS
	9920.00	-	18.85	-	54.00	35.15	AV	Horizo	PASS

Transmit at 2480MHz by DH5

Test Graph

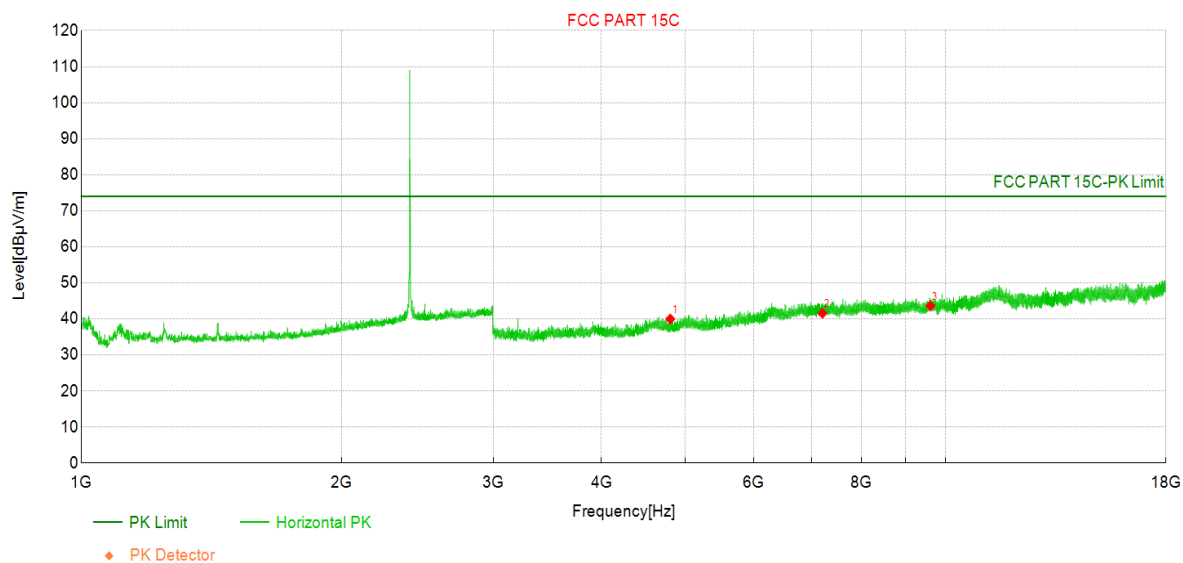


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	49.60	41.37	-8.25	74.00	32.63	PK	Vertic	PASS
	4960.00	-	16.58	-	54.00	37.42	AV	Vertic	PASS
2	7440.00	44.70	42.96	-1.69	74.00	31.04	PK	Vertic	PASS
	7440.00	-	18.17	-	54.00	35.83	AV	Vertic	PASS
3	9920.00	43.00	44.64	1.69	74.00	29.36	PK	Vertic	PASS
	9920.00	-	19.85	-	54.00	34.15	AV	Vertic	PASS

Transmit at 2402MHz by 2DH5

Test Graph

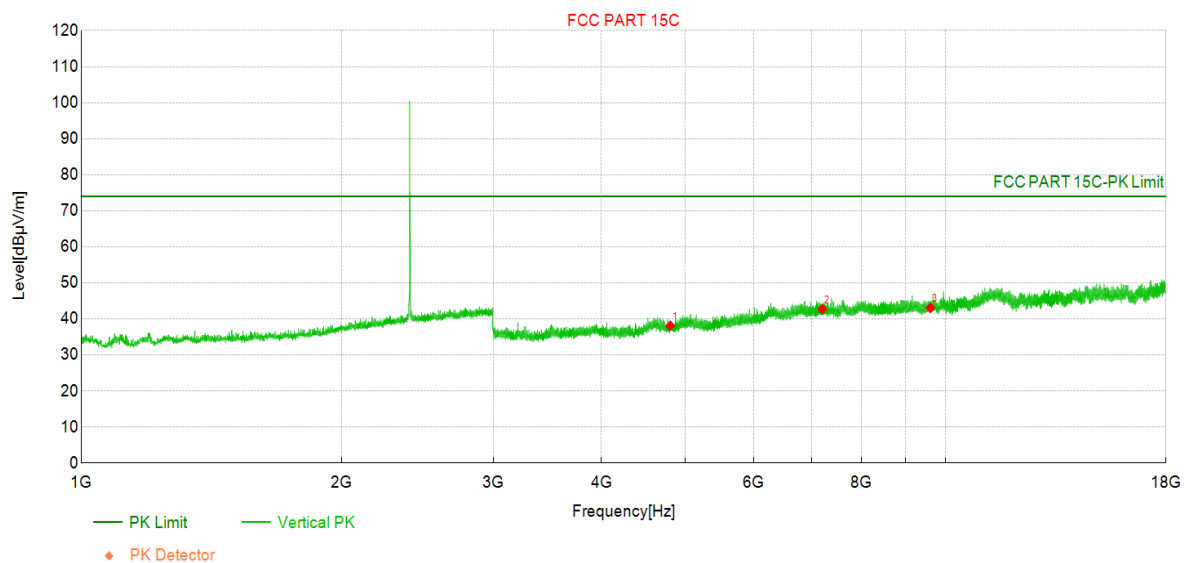


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	48.90	39.96	-8.96	74.00	34.04	PK	Horizo	PASS
	4804.00	-	15.17	-	54.00	38.83	AV	Horizo	PASS
2	7206.00	43.70	41.55	-2.13	74.00	32.45	PK	Horizo	PASS
	7206.00	-	16.76	-	54.00	37.24	AV	Horizo	PASS
3	9608.00	42.80	43.59	0.76	74.00	30.41	PK	Horizo	PASS
	9608.00	-	18.80	-	54.00	35.20	AV	Horizo	PASS

Transmit at 2402MHz by 2DH5

Test Graph

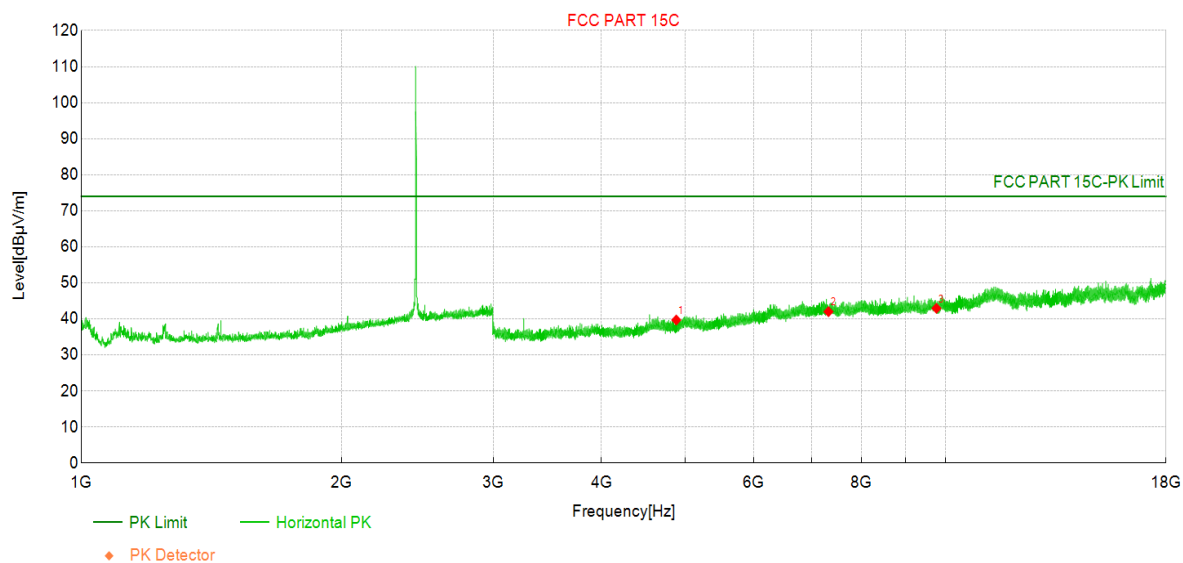


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	47.00	38.08	-8.96	74.00	35.92	PK	Vertic	PASS
	4804.00	-	13.29	-	54.00	40.71	AV	Vertic	PASS
2	7206.00	44.80	42.70	-2.13	74.00	31.30	PK	Vertic	PASS
	7206.00	-	17.91	-	54.00	36.09	AV	Vertic	PASS
3	9608.00	42.30	43.06	0.76	74.00	30.94	PK	Vertic	PASS
	9608.00	-	18.27	-	54.00	35.73	AV	Vertic	PASS

Transmit at 2441MHz by 2DH5

Test Graph

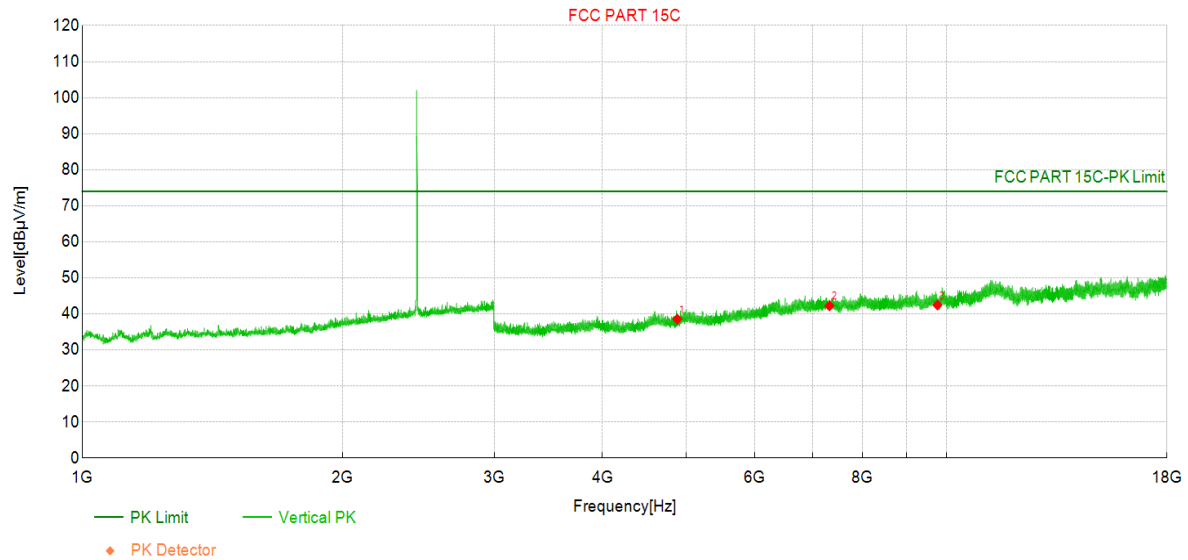


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4882.00	48.30	39.69	-8.58	74.00	34.31	PK	Horizo	PASS
	4882.00	-	14.90	-	54.00	39.10	AV	Horizo	PASS
2	7323.00	43.90	42.01	-1.87	74.00	31.99	PK	Horizo	PASS
	7323.00	-	17.22	-	54.00	36.78	AV	Horizo	PASS
3	9764.00	42.10	42.93	0.84	74.00	31.07	PK	Horizo	PASS
	9764.00	-	18.14	-	54.00	35.86	AV	Horizo	PASS

Transmit at 2441MHz by 2DH5

Test Graph

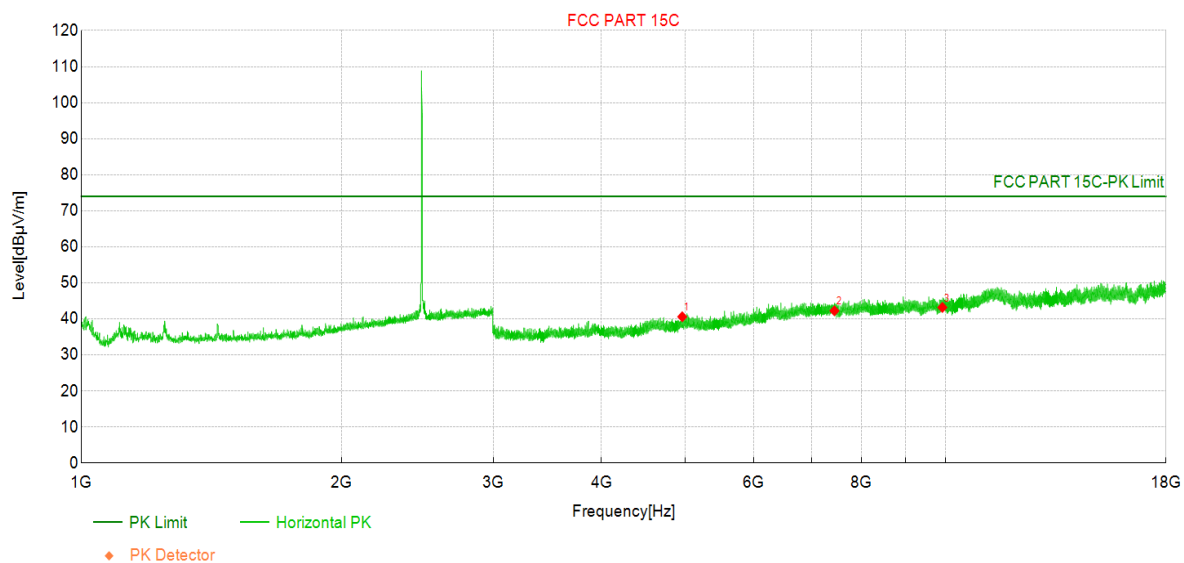


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4882.00	47.10	38.55	-8.58	74.00	35.45	PK	Vertic	PASS
	4882.00	-	13.76	-	54.00	40.24	AV	Vertic	PASS
2	7323.00	44.10	42.24	-1.87	74.00	31.76	PK	Vertic	PASS
	7323.00	-	17.45	-	54.00	36.55	AV	Vertic	PASS
3	9764.00	41.60	42.46	0.84	74.00	31.54	PK	Vertic	PASS
	9764.00	-	17.67	-	54.00	36.33	AV	Vertic	PASS

Transmit at 2480MHz by 2DH5

Test Graph

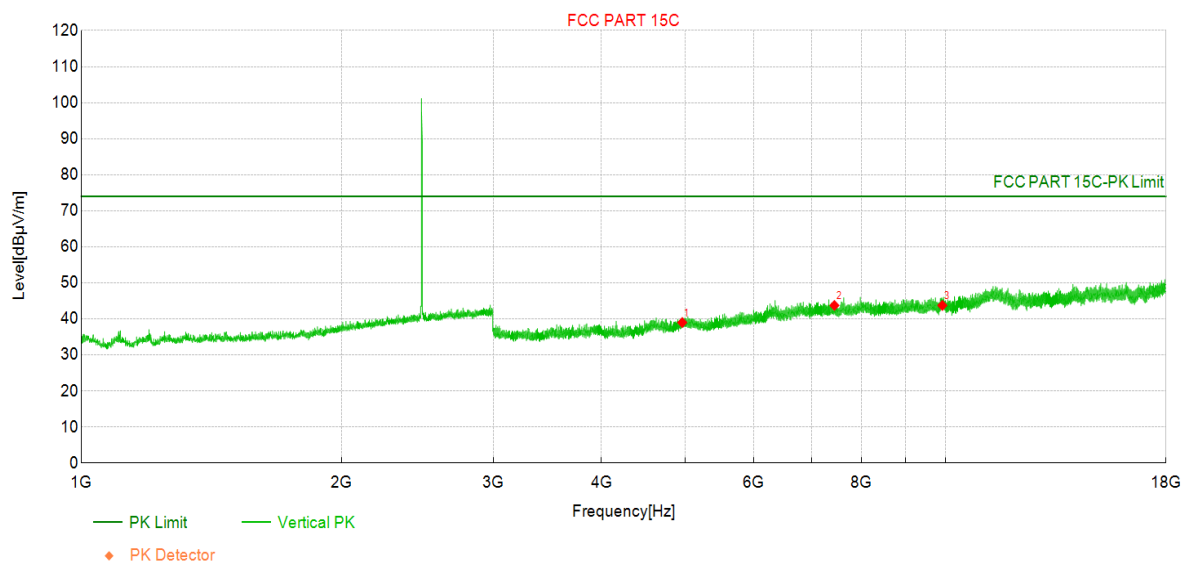


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	48.80	40.59	-8.25	74.00	33.41	PK	Horizo	PASS
	4960.00	-	15.80	-	54.00	38.20	AV	Horizo	PASS
2	7440.00	43.90	42.24	-1.69	74.00	31.76	PK	Horizo	PASS
	7440.00	-	17.45	-	54.00	36.55	AV	Horizo	PASS
3	9920.00	41.50	43.19	1.69	74.00	30.81	PK	Horizo	PASS
	9920.00	-	18.40	-	54.00	35.60	AV	Horizo	PASS

Transmit at 2480MHz by 2DH5

Test Graph

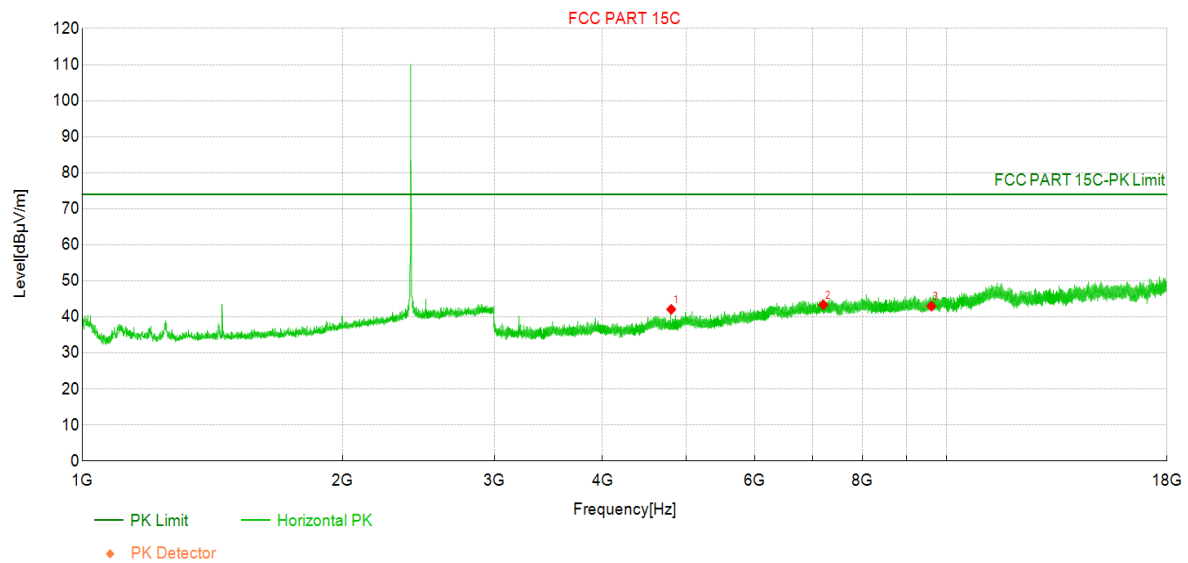


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	47.20	38.99	-8.25	74.00	35.01	PK	Vertic	PASS
	4960.00	-	14.20	-	54.00	39.80	AV	Vertic	PASS
2	7440.00	45.40	43.73	-1.69	74.00	30.27	PK	Vertic	PASS
	7440.00	-	18.94	-	54.00	35.06	AV	Vertic	PASS
3	9920.00	42.00	43.73	1.69	74.00	30.27	PK	Vertic	PASS
	9920.00	-	18.94	-	54.00	35.06	AV	Vertic	PASS

Transmit at 2402MHz by 3DH5

Test Graph

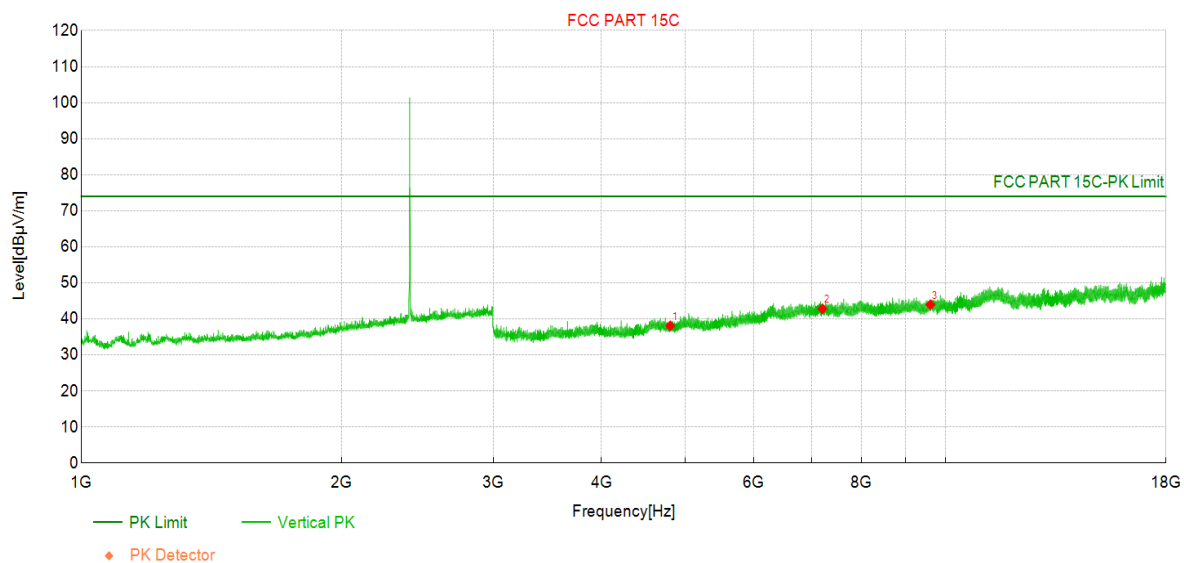


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	51.10	42.09	-8.96	74.00	31.91	PK	Horizo	PASS
	4804.00	-	17.30	-	54.00	36.70	AV	Horizo	PASS
2	7206.00	45.50	43.36	-2.13	74.00	30.64	PK	Horizo	PASS
	7206.00	-	18.57	-	54.00	35.43	AV	Horizo	PASS
3	9608.00	42.20	42.99	0.76	74.00	31.01	PK	Horizo	PASS
	9608.00	-	18.20	-	54.00	35.80	AV	Horizo	PASS

Transmit at 2402MHz by 3DH5

Test Graph

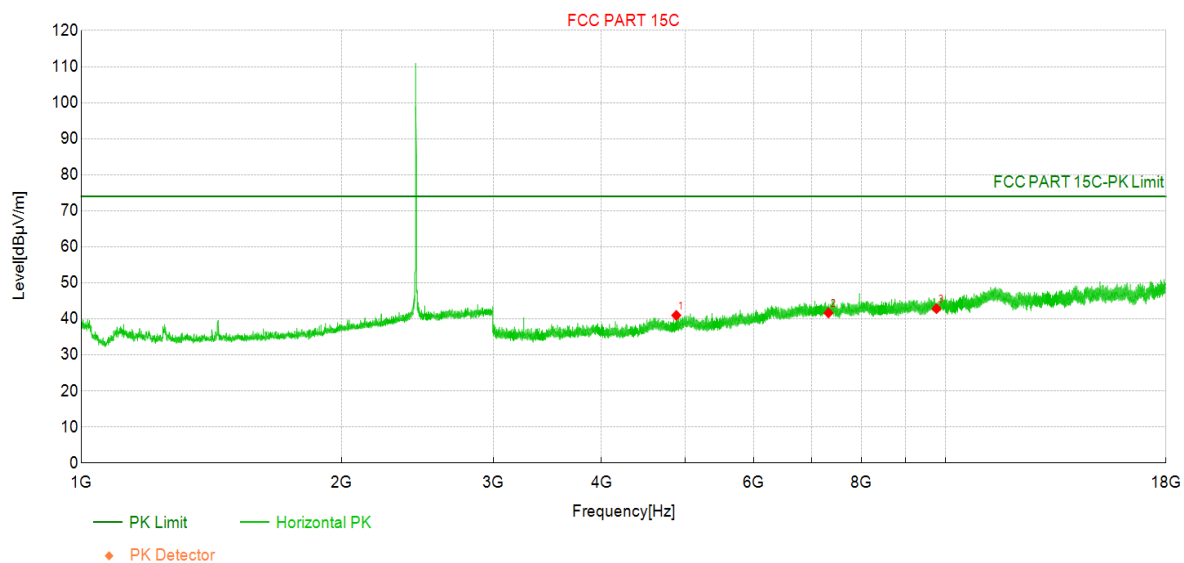


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4804.00	47.10	38.09	-8.96	74.00	35.91	PK	Vertic	PASS
	4804.00	-	13.30	-	54.00	40.70	AV	Vertic	PASS
2	7206.00	44.90	42.81	-2.13	74.00	31.19	PK	Vertic	PASS
	7206.00	-	18.02	-	54.00	35.98	AV	Vertic	PASS
3	9608.00	43.20	43.94	0.76	74.00	30.06	PK	Vertic	PASS
	9608.00	-	19.15	-	54.00	34.85	AV	Vertic	PASS

Transmit at 2441MHz by 3DH5

Test Graph

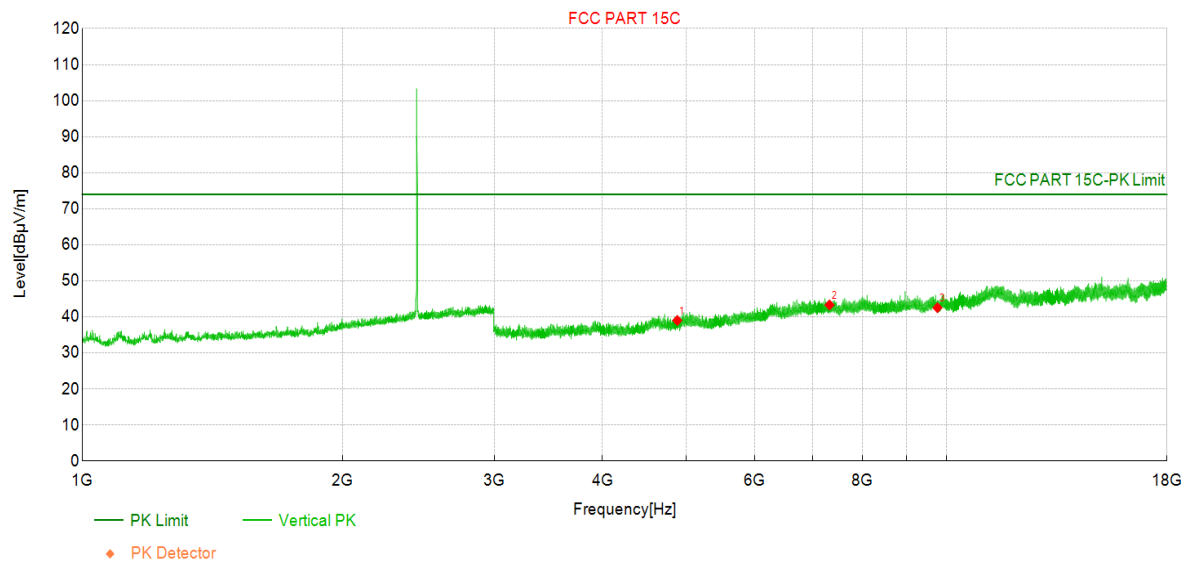


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4882.00	49.60	40.98	-8.58	74.00	33.02	PK	Horizo	PASS
	4882.00	-	16.19	-	54.00	37.81	AV	Horizo	PASS
2	7323.00	43.50	41.65	-1.87	74.00	32.35	PK	Horizo	PASS
	7323.00	-	16.86	-	54.00	37.14	AV	Horizo	PASS
3	9764.00	42.00	42.85	0.84	74.00	31.15	PK	Horizo	PASS
	9764.00	-	18.06	-	54.00	35.94	AV	Horizo	PASS

Transmit at 2441MHz by 3DH5

Test Graph

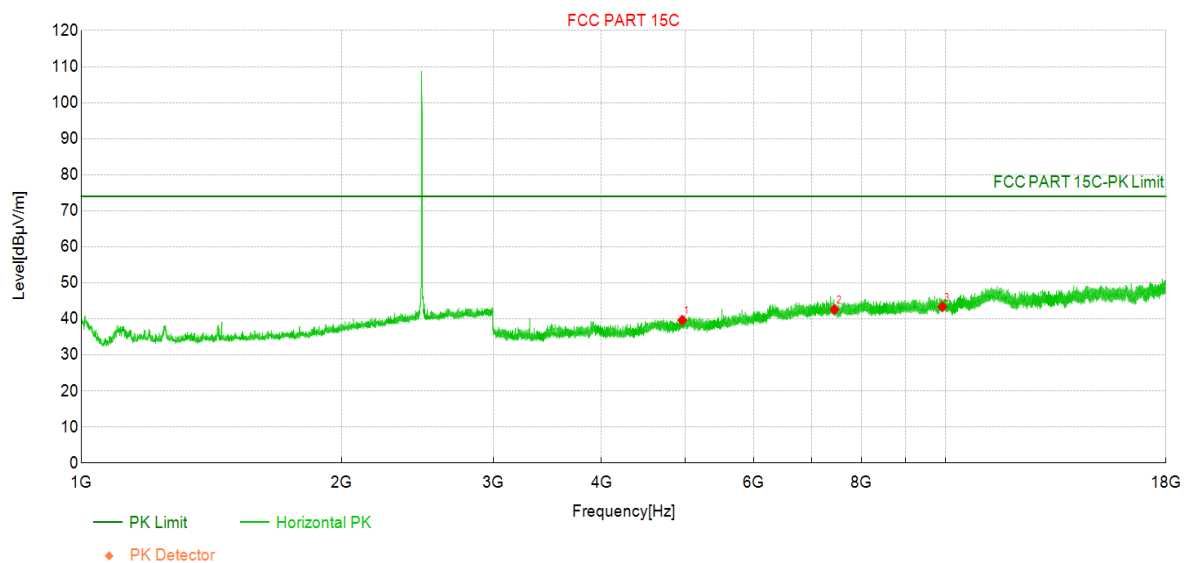


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4882.00	47.60	39.02	-8.58	74.00	34.98	PK	Vertic	PASS
	4882.00	-	14.23	-	54.00	39.77	AV	Vertic	PASS
2	7323.00	45.20	43.32	-1.87	74.00	30.68	PK	Vertic	PASS
	7323.00	-	18.53	-	54.00	35.47	AV	Vertic	PASS
3	9764.00	41.70	42.55	0.84	74.00	31.45	PK	Vertic	PASS
	9764.00	-	17.76	-	54.00	36.24	AV	Vertic	PASS

Transmit at 2480MHz by 3DH5

Test Graph

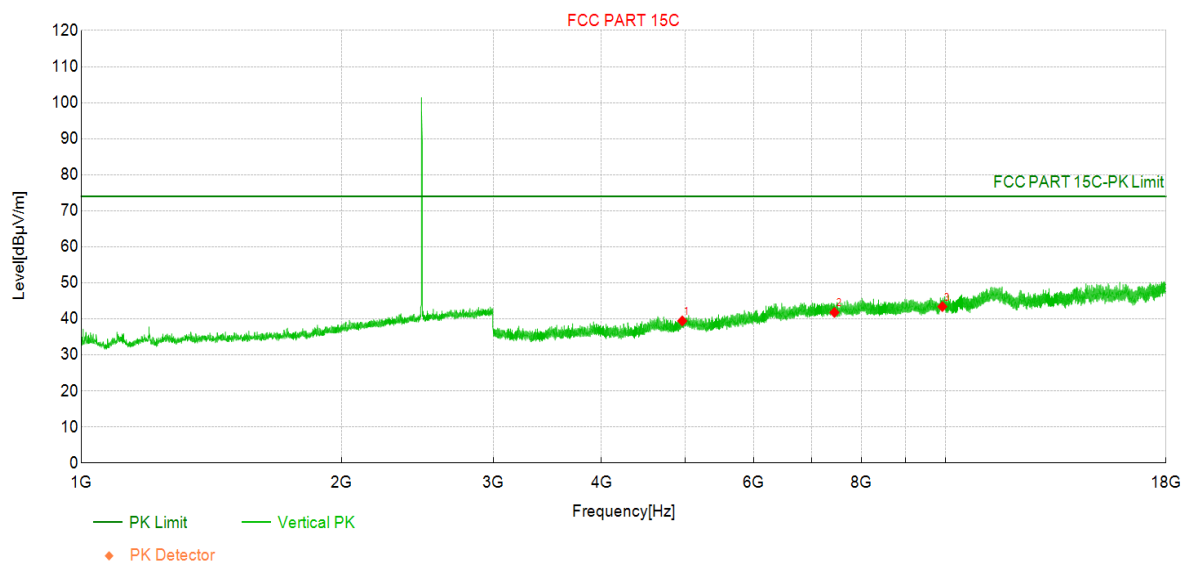


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	47.90	39.65	-8.25	74.00	34.35	PK	Horizo	PASS
	4960.00	-	14.86	-	54.00	39.14	AV	Horizo	PASS
2	7440.00	44.30	42.61	-1.69	74.00	31.39	PK	Horizo	PASS
	7440.00	-	17.82	-	54.00	36.18	AV	Horizo	PASS
3	9920.00	41.60	43.33	1.69	74.00	30.67	PK	Horizo	PASS
	9920.00	-	18.54	-	54.00	35.46	AV	Horizo	PASS

Transmit at 2480MHz by 3DH5

Test Graph

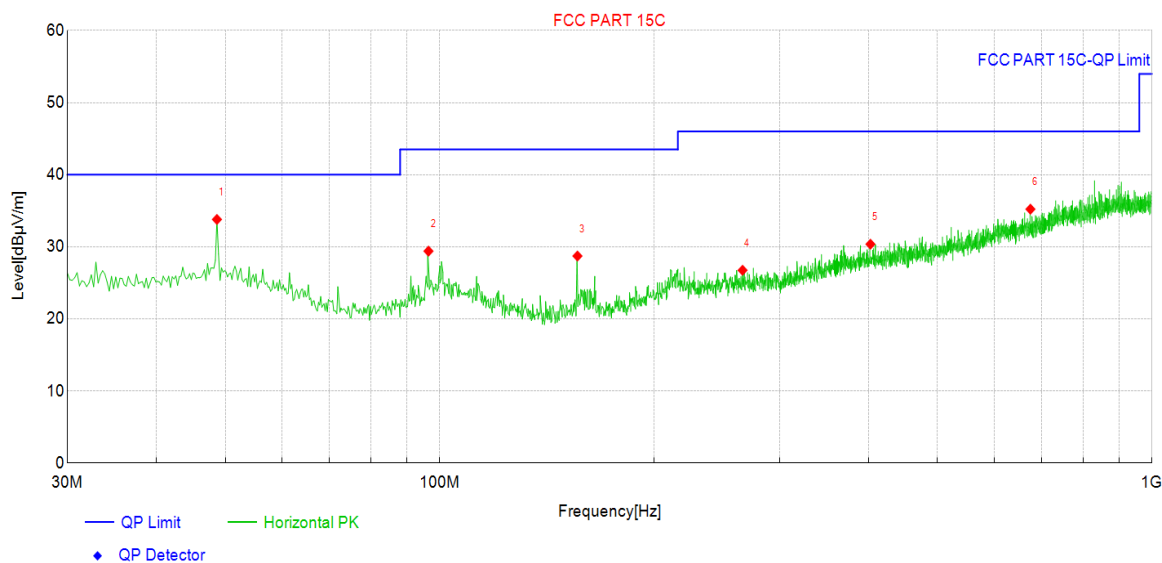


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	4960.00	47.70	39.44	-8.25	74.00	34.56	PK	Vertic	PASS
	4960.00	-	14.65	-	54.00	39.35	AV	Vertic	PASS
2	7440.00	43.50	41.78	-1.69	74.00	32.22	PK	Vertic	PASS
	7440.00	-	16.99	-	54.00	37.01	AV	Vertic	PASS
3	9920.00	41.70	43.42	1.69	74.00	30.58	PK	Vertic	PASS
	9920.00	-	18.63	-	54.00	35.37	AV	Vertic	PASS

Transmit at 2402MHz by DH5

Test Graph

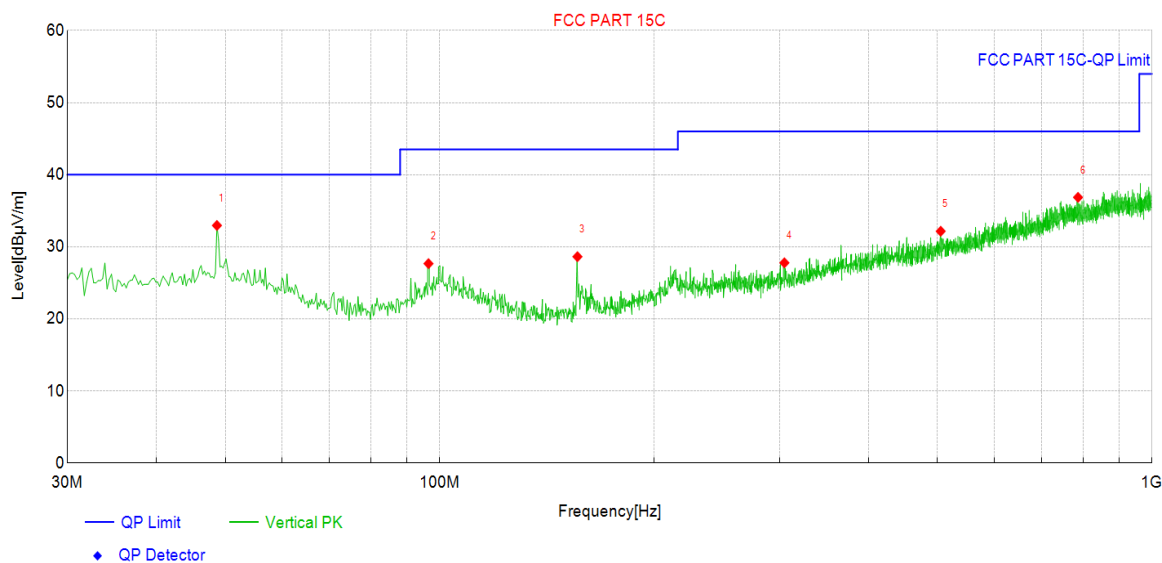


Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	48.67	19.0	33.80	14.840	40.00	6.20	PK	Horizo	PASS
2	96.45	17.4	29.40	12.010	43.50	14.10	PK	Horizo	PASS
3	156.10	19.4	28.72	9.370	43.50	14.78	PK	Horizo	PASS
4	266.20	13.3	26.75	13.440	46.00	19.25	PK	Horizo	PASS
5	402.48	14.2	30.37	16.130	46.00	15.63	PK	Horizo	PASS
6	675.05	15.0	35.22	20.180	46.00	10.78	PK	Horizo	PASS

Transmit at 2402MHz by DH5

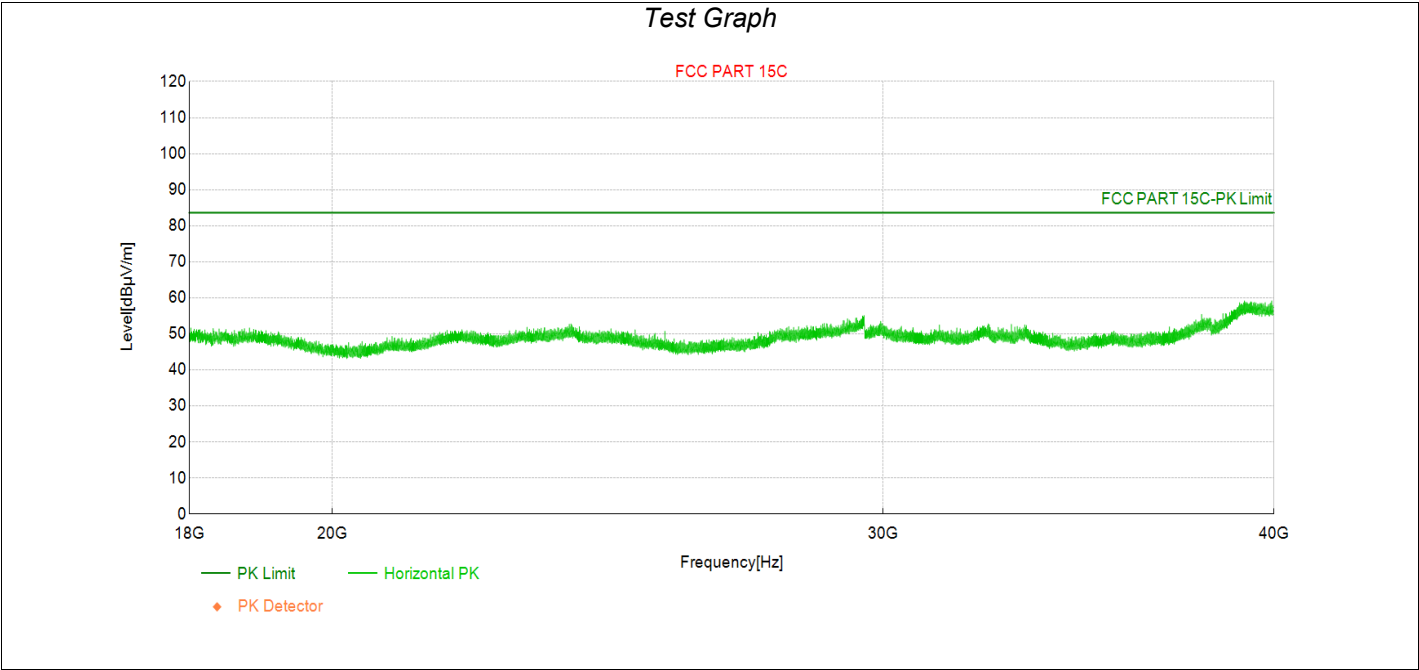
Test Graph



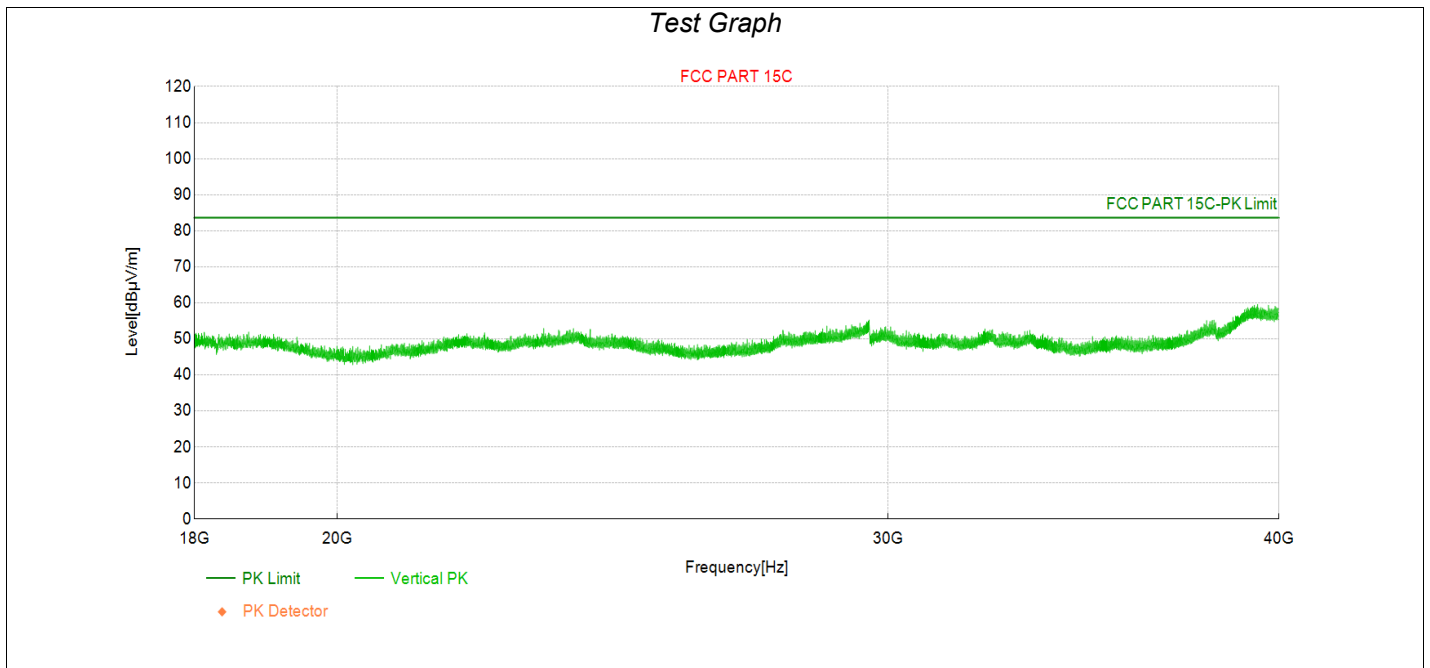
Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	48.67	18.1	32.96	14.840	40.00	7.04	PK	Vertic	PASS
2	96.45	15.7	27.67	12.010	43.50	15.83	PK	Vertic	PASS
3	156.10	19.3	28.63	9.370	43.50	14.87	PK	Vertic	PASS
4	304.75	13.7	27.78	14.120	46.00	18.22	PK	Vertic	PASS
5	505.06	14.4	32.16	17.740	46.00	13.84	PK	Vertic	PASS
6	787.33	15.4	36.86	21.490	46.00	9.14	PK	Vertic	PASS

Transmit at 2402MHz by DH5



Transmit at 2402MHz by DH5



Note: Level = Reading + Factor (Antenna factor + Amplifier factor + Cable loss)

Note: In the report, for the sections below 1G and 18~40G, verification tests were only performed on the worst channel in the worst mode of the 1~18G range.

Note: All test data above 18GHz are noise base, so no data shown in this report.

AC Power Line Conducted Emission

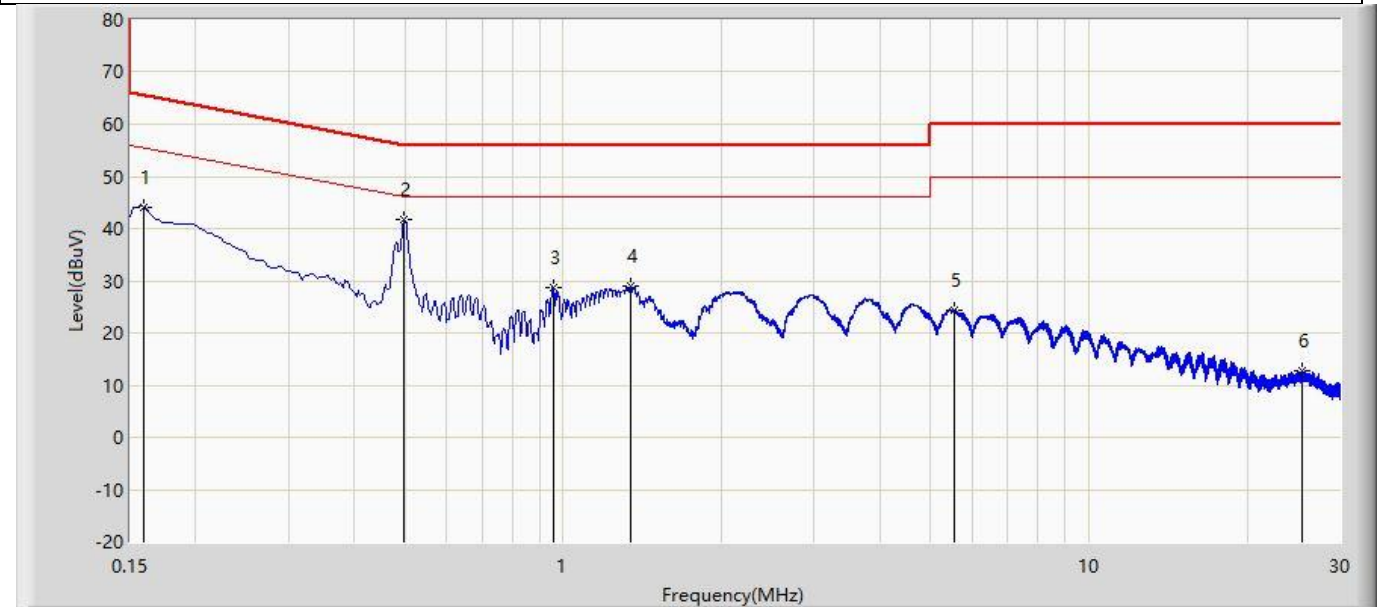
Probe: ENV216_101189(0.009-30MHz)

Polarity: Line

EUT: Insta360 Luna Ultra

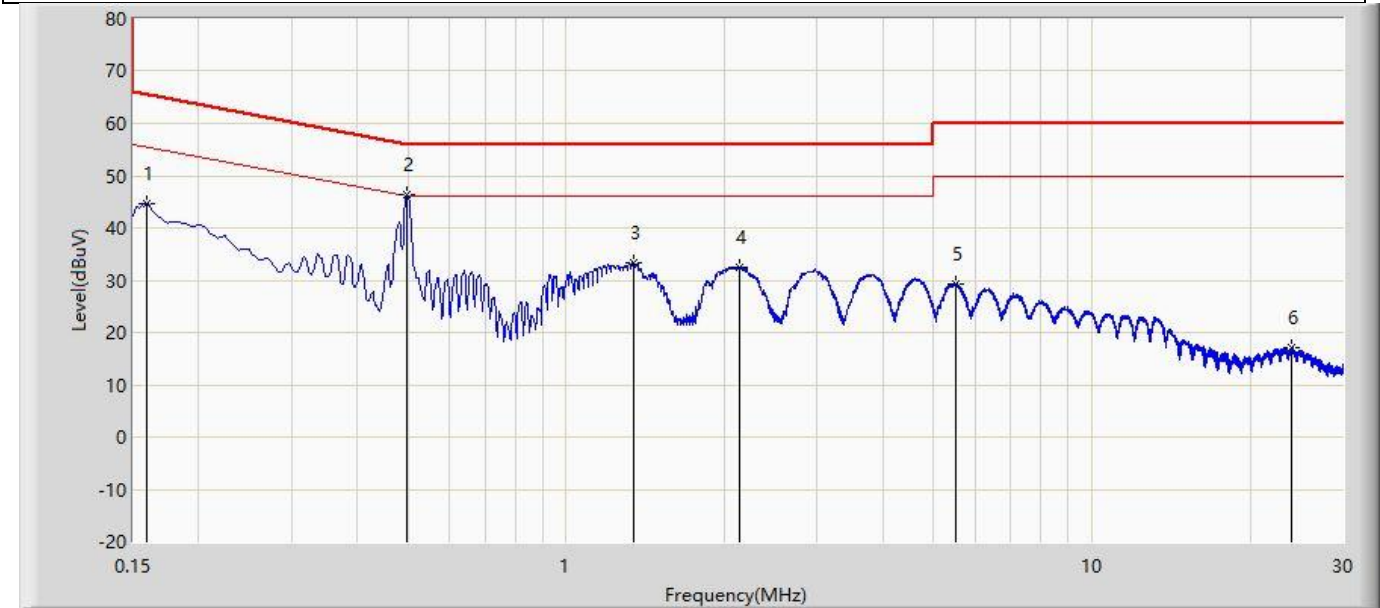
Power: AC 120V/60Hz

Note: Transmit at 2402MHz by DH5



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.159	44.171	34.503	-21.345	65.516	9.668	QP
2	*	0.499	41.727	32.026	-14.290	56.017	9.701	QP
3		0.958	28.656	18.961	-27.344	56.000	9.695	QP
4		1.347	28.950	19.227	-27.050	56.000	9.724	QP
5		5.552	24.338	14.513	-35.662	60.000	9.825	QP
6		25.492	12.793	2.043	-47.207	60.000	10.750	QP

Probe: ENV216_101189(0.009-30MHz)	Polarity: Neutral
EUT: Insta360 Luna Ultra	Power: AC 120V/60Hz
Note: Transmit at 2402MHz by DH5	



No	Mark	Frequency (MHz)	Measure Level (dBuV)	Reading Level (dBuV)	Over Limit (dB)	Limit (dBuV)	Factor (dB)	Type
1		0.159	44.725	35.034	-20.791	65.516	9.691	QP
2	*	0.496	46.494	36.898	-9.573	56.067	9.596	QP
3		1.340	33.269	23.584	-22.731	56.000	9.685	QP
4		2.135	32.383	22.681	-23.617	56.000	9.702	QP
5		5.521	29.239	19.411	-30.761	60.000	9.828	QP
6		24.002	17.112	6.332	-42.888	60.000	10.780	QP

Note: Level = Reading + Factor (Antenna factor + Amplifier factor + Cable loss)

The End