



Test Report No.: W7L-P22090023RF01



FCC TEST REPORT

(Part 15, Subpart C)

Applicant:	HMD Global Oy
Address:	Bertel Jungin aukio 9,02600 Espoo,Finland

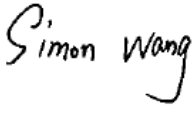
Manufacturer or Supplier:	HMD Global Oy
Address:	Bertel Jungin aukio 9,02600 Espoo,Finland
Product:	Smart Phone
Brand Name:	NOKIA
Model Name:	TA-1508
FCC ID:	2AJOTTA-1508
Date of tests:	Sep. 26, 2022 ~ Nov. 18, 2022

The tests have been carried out according to the requirements of the following standard:

☒ **FCC Part 15, Subpart C, Section 15.247**

☒ **ANSI C63.10-2013**

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

Prepared by Simon Wang Engineer / Mobile Department	Approved by Luke Lu Manager / Mobile Department
 Date: Nov. 18, 2022	 Date: Nov. 18, 2022

This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty; provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents.



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
W7L-P22090023RF01	Original release	Nov. 18, 2022



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1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part 15, Subpart C		
STANDARD	TEST TYPE AND LIMIT	RESULT
15.207	AC Power Conducted Emission	Compliance
15.247(a)(1)(iii)	Number of Hopping Frequency Used	Compliance
15.247(a)(1)(iii)	Dwell Time on Each Channel	Compliance
15.247(a)(1)	1. Hopping Channel Separation 2. Spectrum Bandwidth of a Frequency Hopping Sequence Spread Spectrum System	Compliance
15.247(b)	Maximum Peak Output Power	Compliance
15.247(d)&15.209	Transmitter Radiated Emissions	Compliance
15.247(d)	Out of band Measurement	Compliance
15.203	Antenna Requirement	Compliance

NOTE:

1. If the Frequency Hopping System operating in 2400-2483.5MHz band and the output power less than 125mW. The hopping channel carrier frequencies separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of hopping channel whichever is greater.
2. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

Test Lab Information Reference:

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

Lab Address:

No.B102, Dazu Chuangxin Mansion, North of Beihuan Avenue, North Area, Hi-Tech Industrial Park, Nanshan District, Shenzhen, Guangdong, China

Accredited Test Lab Cert 3939.01

1.1 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

MEASUREMENT	UNCERTAINTY
AC Power Conducted emissions	±2.70dB
Radiated emissions (9KHz-30MHz)	±2.16 dB
Radiated emissions (30MHz~1GMHz)	±4.98dB
Radiated emissions (1GMHz ~6GMHz)	±4.70dB
Radiated emissions (6GMHz ~18GMHz)	±4.60dB
Radiated emissions (18GMHz ~40GMHz)	±4.12dB
Conducted emissions	±4.01dB
Occupied Channel Bandwidth	±43.58KHz
Conducted Output power	±2.06dB
Power Spectral Density	±0.85 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

2 GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

PRODUCT	Smart Phone
BRAND NAME	NOKIA
MODEL NAME	TA-1508
NOMINAL VOLTAGE	5.0Vdc(adapter or host equipment) 3.8Vdc (Li-ion, battery)
MODULATION TECHNOLOGY	FHSS
MODULATION TYPE	GFSK, 8DPSK, $\pi/4$ DQPSK
OPERATING FREQUENCY	2402MHz~2480MHz
NUMBER OF CHANNEL	79
MAX. OUTPUT POWER	5.19mW (Max. Measured)
ANTENNA TYPE	PIFA Antenna with 2.51dBi gain
HW VERSION	V01
SW VERSION	00WW_0_010
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	USB cable: non-shielded cable, with w/o ferrite core, 1 meter Earphone: non-shielded cable, with w/o ferrite core, 1.2 meter

NOTE:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report.

List of Accessory:

ACCESSORIES	BRAND	MANUFACTURER	MODEL	SPECIFICATION
Battery	NOKIA	Shenzhen Aerospace Electronic Co., Ltd	BL-29CI	Capacity: 3.8Vdc, 3000mAh
AC Adapter	NOKIA	Dongguan Aohai Technology Co., Ltd.	A18A-050100U-U S2	I/P: 100-240Vac, 0.2A, O/P: 5.0Vdc, 1.0A
AC Adapter	NOKIA	Shenzhen Baijunda Electronic Co.,Ltd	AD-005U	I/P: 100-240Vac, 0.2A, O/P: 5.0Vdc, 1.0A
Earphone	N/A	Hui Zhou JuWei Electronic Co., Ltd	JWEP1199-M01H	Signal Line, 1.2meter
USB Cable	N/A	Hui Zhou JuWei Electronic Co., Ltd	JWUB1480-M01H	Signal Line, 1.0meter

2.2 DESCRIPTION OF TEST MODES

79 channels are provided to this EUT:

CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)	CHANNEL	FREQ. (MHz)
0	2402	20	2422	40	2442	60	2462
1	2403	21	2423	41	2443	61	2463
2	2404	22	2424	42	2444	62	2464
3	2405	23	2425	43	2445	63	2465
4	2406	24	2426	44	2446	64	2466
5	2407	25	2427	45	2447	65	2467
6	2408	26	2428	46	2448	66	2468
7	2409	27	2429	47	2449	67	2469
8	2410	28	2430	48	2450	68	2470
9	2411	29	2431	49	2451	69	2471
10	2412	30	2432	50	2452	70	2472
11	2413	31	2433	51	2453	71	2473
12	2414	32	2434	52	2454	72	2474
13	2415	33	2435	53	2455	73	2475
14	2416	34	2436	54	2456	74	2476
15	2417	35	2437	55	2457	75	2477
16	2418	36	2438	56	2458	76	2478
17	2419	37	2439	57	2459	77	2479
18	2420	38	2440	58	2460	78	2480
19	2421	39	2441	59	2461		

2.2.1 CONFIGURATION OF SYSTEM UNDER TEST

Please see section 5 photograph of the test configuration for reference.

2.2.2 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports.

The worst case was found when positioned on X axis for radiated emission.

Following channel(s) was (were) selected for the final test as listed below:

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE<1G	RE≥1G	PLC	APCM	
-	√	√	√	√	-

Where **RE<1G**: Radiated Emission below 1GHz
PLC: Power Line Conducted Emission

RE≥1G: Radiated Emission above 1GHz
APCM: Antenna Port Conducted Measurement

RADIATED EMISSION TEST (BELOW 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	39	FHSS	$\pi/4$ DQPSK	2DH5

RADIATED EMISSION TEST (ABOVE 1 GHz):

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, XYZ axis, antenna ports (if EUT with antenna diversity architecture) and packet type.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	0, 39, 78	FHSS	$\pi/4$ DQPSK	2DH5



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POWER LINE CONDUCTED EMISSION TEST:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture) and packet type.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

EUT CONFIGURE MODE	AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
-	0 to 78	39	FHSS	$\pi/4$ DQPSK	2DH5

ANTENNA PORT CONDUCTED MEASUREMENT:

- ☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, antenna ports (if EUT with antenna diversity architecture), and packet types.
- ☒ Following channel(s) was (were) selected for the final test as listed below.

AVAILABLE CHANNEL	TESTED CHANNEL	MODULATION TECHNOLOGY	MODULATION TYPE	PACKET TYPE
0 to 78	0, 39, 78	FHSS	GFSK	DH1/DH3/DH5
0 to 78	0, 39, 78	FHSS	$\pi/4$ DQPSK	2DH1/2DH3/2DH5
0 to 78	0, 39, 78	FHSS	8DPSK	3DH1/3DH3/3DH5

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	TEST VOLTAGE (SYSTEM)	TESTED BY
RE<1G	23deg. C, 70%RH	DC 5V By Adapter	Jace Hu
RE≥1G	23deg. C, 70%RH	DC 5V By Adapter	Jace Hu
PLC	25deg. C, 52%RH	DC 5V By Adapter	Carl Xie
APCM	25deg. C, 60%RH	DC 3.8V By Battery	James Fu



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2.3 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C. Section 15.247 ANSI C63.10-2013

- NOTE:**
1. All test items have been performed and recorded as per the above standards.
 2. The EUT is also considered as a kind of computer peripheral, because the connection to computer is necessary for typical use. It has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B (Certification). The test report has been issued separately.

2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Desktop	Lenovo	M73 SFF	PC04GRQV	N/A
2	Desktop	Lenovo	M73 SFF	PC06CS27	N/A
3	Laptop	Lenovo	Thnikpad L440	R90FTFKN	N/A

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	AC Line: Unshielded, Detachable 1.5m
2	AC Line: Unshielded, Detachable 1.5m
3	AC Line: Unshielded, Detachable 1.5m

3 TEST TYPES AND RESULTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	60	50

- NOTE:** 1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

3.1.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde&Schwarz	ESR3	101900	Feb. 15,22	Feb. 14,23
EMC32 test software	Rohde&Schwarz	EMC32	NA	NA	NA
LISN network	Rohde&Schwarz	ENV216	101922	Mar. 04,22	Mar. 03,23

- NOTE:** 1. The test was performed in CE shielded room.
2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

3.1.3 TEST PROCEDURES

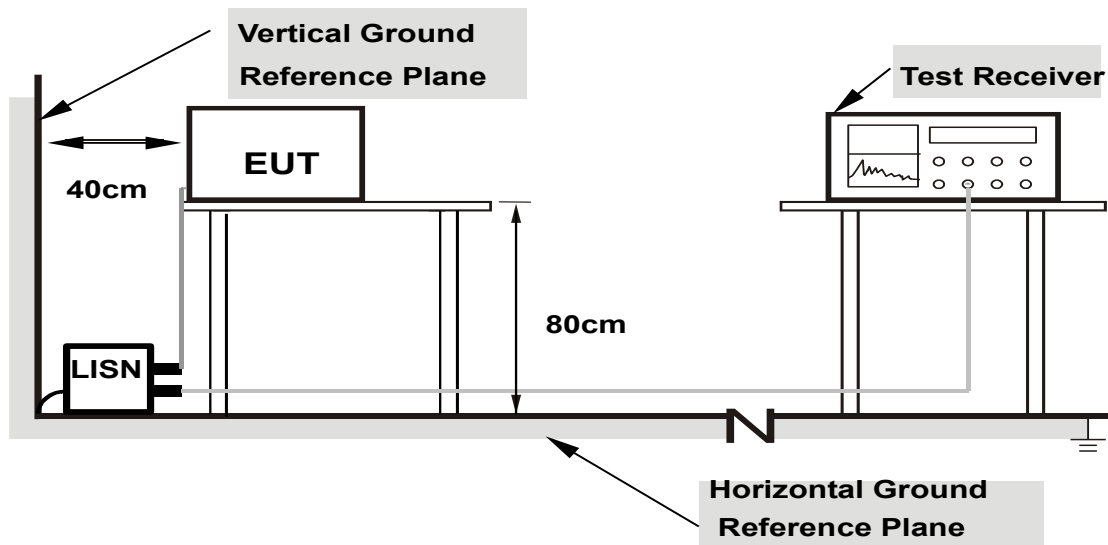
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation.

3.1.5 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.1.6 EUT OPERATING CONDITIONS

- Turned on the power and connected of all equipment.
- EUT was operated according to the type used was description in manufacturer's specifications or the User's Manual.

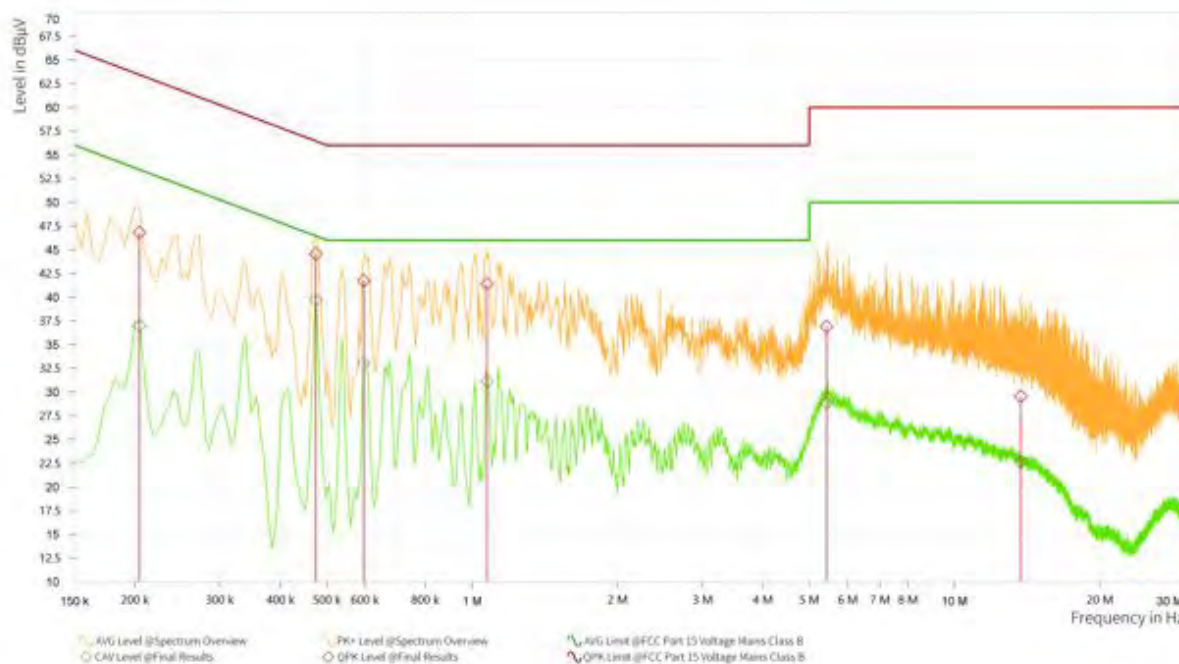
3.1.7 TEST RESULTS

CONDUCTED WORST-CASE DATA:

Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Carl xie		

Frequency [MHz]	QPK Level [dBuV]	QPK Limit [dBuV]	QPK Margin [dB]	CAV Level [dBuV]	CAV AVG Limit [dBuV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
0.204	46.80	63.45	16.65	36.98	53.45	16.47	9.87	L1	9.000
0.474	44.55	56.44	11.89	39.67	46.44	6.77	10.06	L1	9.000
0.596	41.71	56.00	14.29	33.03	46.00	12.97	10.03	L1	9.000
1.073	41.40	56.00	14.60	31.11	46.00	14.89	9.85	L1	9.000
5.433	36.89	60.00	23.11	28.83	50.00	21.17	9.83	L1	9.000
13.722	29.54	60.00	30.46	22.63	50.00	27.37	10.04	L1	9.000

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.





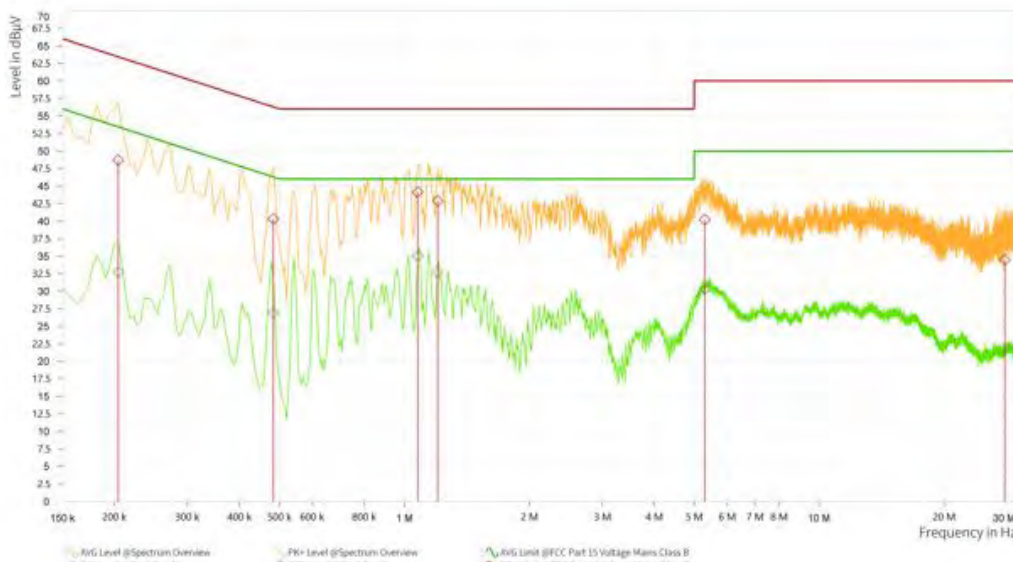
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Frequency Range	150KHz ~ 30MHz	Detector Function & Resolution Bandwidth	Quasi-Peak (QP) / Average (AV), 9 kHz
Input Power	120Vac, 60Hz	Environmental Conditions	26deg. C, 51%RH
Tested By	Carl xie		

Rg	Frequency [MHz]	QPK Level [dBuV]	QPK Limit [dBuV]	QPK Margin [dB]	CAV Level [dBuV]	CAV: AVG Limit [dBuV]	CAV Margin [dB]	Correction [dB]	Line	Meas. BW [kHz]
1	0.204	48.68	63.45	14.77	32.71	53.45	20.74	9.88	N	9.000
1	0.483	40.32	56.29	15.97	26.88	46.29	19.41	10.06	N	9.000
1	1.077	44.14	56.00	11.86	35.08	46.00	10.92	9.86	N	9.000
1	1.203	42.90	56.00	13.10	32.78	46.00	13.22	9.83	N	9.000
1	5.303	40.19	60.00	19.81	30.33	50.00	19.67	9.83	N	9.000
1	28.068	34.48	60.00	25.52	21.82	50.00	28.18	10.31	N	9.000

- REMARKS:**
1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
 3. The emission levels of other frequencies were very low against the limit.
 4. Margin value = Limit value - Emission level
 5. Correction factor = Insertion loss + Cable loss
 6. Emission Level = Correction Factor + Reading Value.



3.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

3.2.1 LIMITS OF RADIATED EMISSION AND BANDEDGE MEASUREMENT

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a). Other emissions shall be at least 20dB below the highest level of the desired power.

FREQUENCIES (MHz)	FIELD STRENGTH (microvolts/meter)	MEASUREMENT DISTANCE (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

3.2.2 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
3m Semi-anechoic Chamber	ETS-LINDGREN	9m*6m*6m	Euroshieldpn-CT0001143-1216	May. 19,20	May. 18,23
Bilog Antenna	ETS-LINDGREN	3143B	00161965	Mar. 06,22	Mar. 05,23
Horn Antenna	ETS-LINDGREN	3117	00168692	Mar. 06,22	Mar. 05,23
Horn Antenna (18GHz-40GHz)	N/A	QWH-SL-18-40-K-SG/QMS-00361	15433	Aug. 27, 22	Aug. 26, 23
Test Software	E3	V 9.160323	N/A	N/A	N/A
Test Software	JS1120-3	3.2.06	N/A	N/A	N/A
10dB Attenuator	JFW/USA	50HF-010-SMA	1505	Jun. 02,22	Jun. 01,23
MXE EMI Receiver	KEYSIGHT	N9038A-544	MY54450026	Feb. 21,22	Feb. 20,23
Signal Pre-Amplifier	EMSI	EMC 9135	980249	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 012645B	980257	May.12,22	May.11,23
Signal Pre-Amplifier	EMSI	EMC 184045B	980259	Feb. 21,22	Feb.20,23
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 25,21	Aug. 24,22
DC Source	Kikusui/JP	PMX18-5A	0000001	Aug. 24,22	Aug. 23,23
Power Meter	Anritsu	ML2495A	1506002	Feb. 22,22	Feb. 21,23
Power Sensor	Anritsu	MA2411B	1339352	May. 14,22	May. 13,23
Loop Antenna	Schwarzbeck	FMZB 1519B	00173	Sep. 04,22	Sep. 03,23

- NOTE:**
1. The calibration interval of the above test instruments is 12 months or 36 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
 2. The test was performed in 3m Chamber.
 3. The FCC Site Registration No. is 525120; The Designation No. is CN1171.

3.2.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters (for below 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be performed using fresh batteries. The turntable was rotated to maximize the emission level.

NOTE:

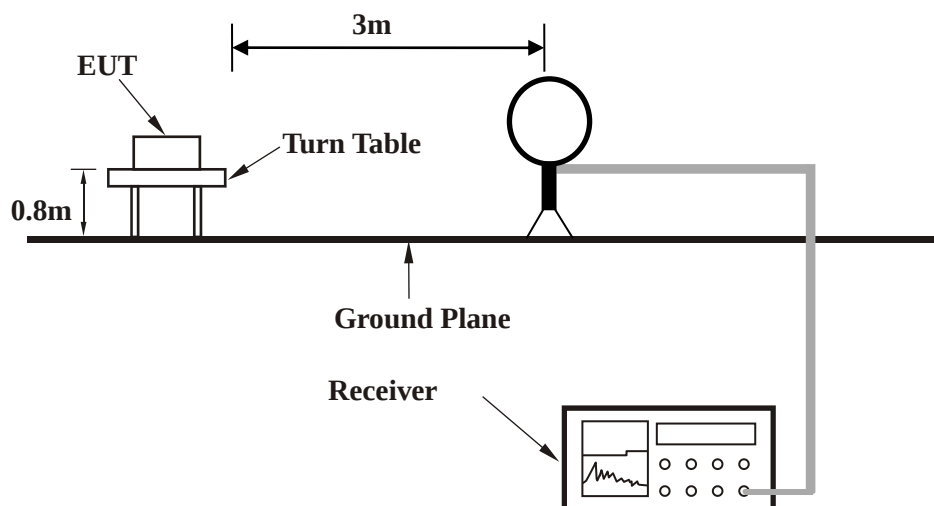
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz for Average detection (AV) at frequency above 1GHz.
4. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit.
5. All modes of operation were investigated and the worst-case emissions are reported.

3.2.4 DEVIATION FROM TEST STANDARD

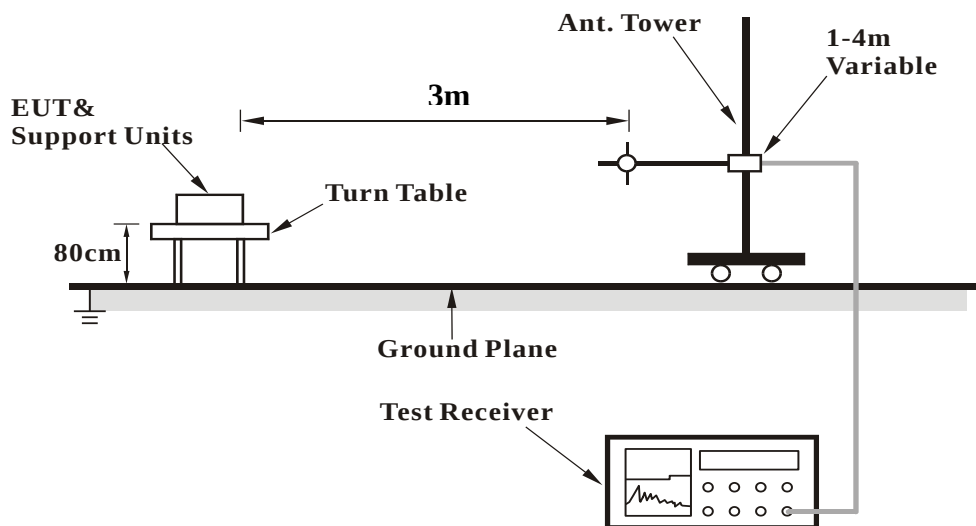
No deviation.

3.2.5 TEST SETUP

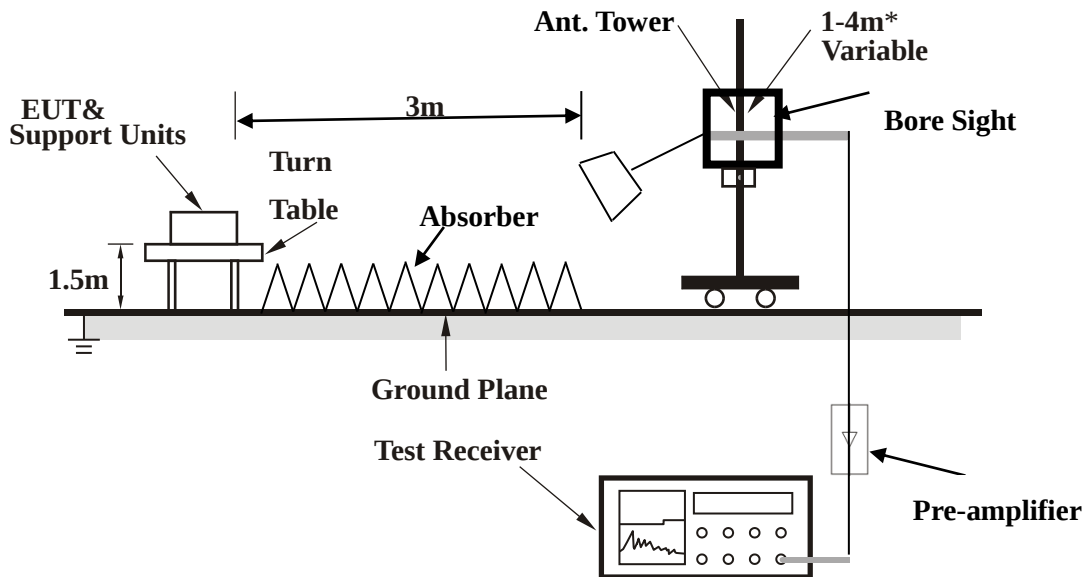
<Frequency Range 9KHz~30MHz >



< Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



Note: Above 1G is a directional antenna

Depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

3.2.6 EUT OPERATING CONDITIONS

- Set the EUT under full load condition and placed them on a testing table.
- Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- The necessary accessories enable the EUT in full functions.



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3.2.7 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA:

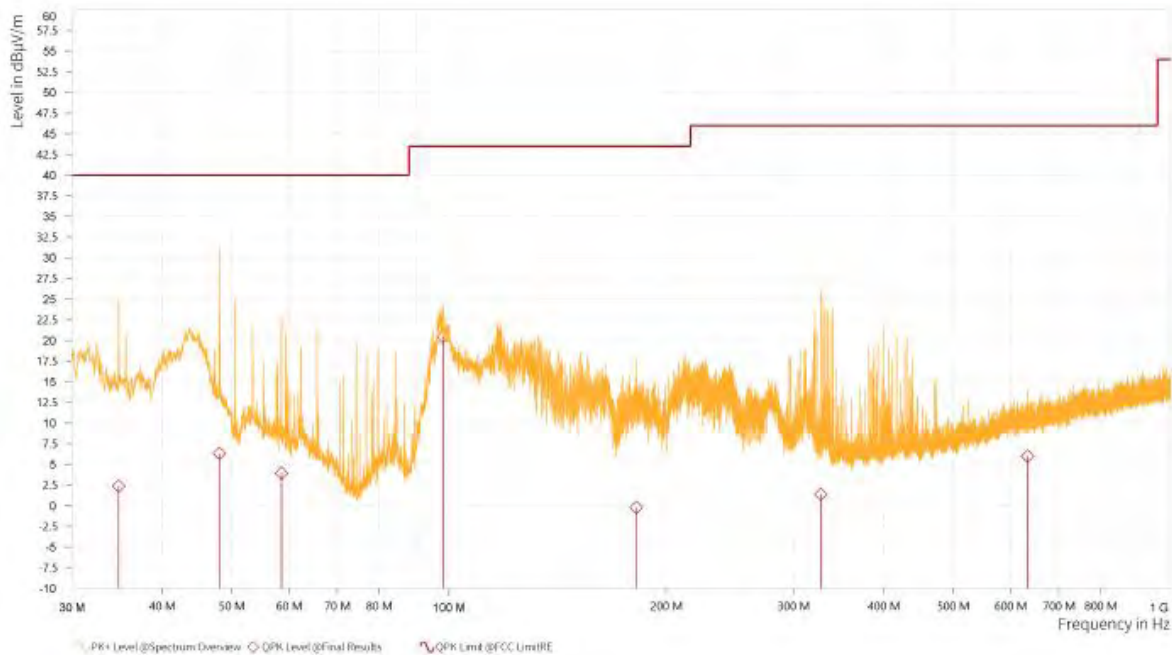
30 MHz – 1GHz data:

BT_π/4-DQPSK

CHANNEL	Channel 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	34.850	2.37	40.00	37.63	-20.03	H	231.4	2	120.000
1	48.042	6.32	40.00	33.68	-17.29	H	231.4	2	120.000
1	58.567	3.92	40.00	36.08	-19.66	H	263.6	1	120.000
1	98.094	20.43	43.50	23.07	-21.34	H	355.5	2	120.000
1	181.757	-0.23	43.50	43.73	-25.43	H	355.5	2	120.000
1	327.451	1.36	46.00	44.64	-21.56	H	5	1	120.000
1	633.825	5.99	46.00	40.01	-16.25	H	355.5	2	120.000



REMARKS:

1. Emission Level(dBuV/m) = Read Level(dBuV) + Correction Factor(dB/m)



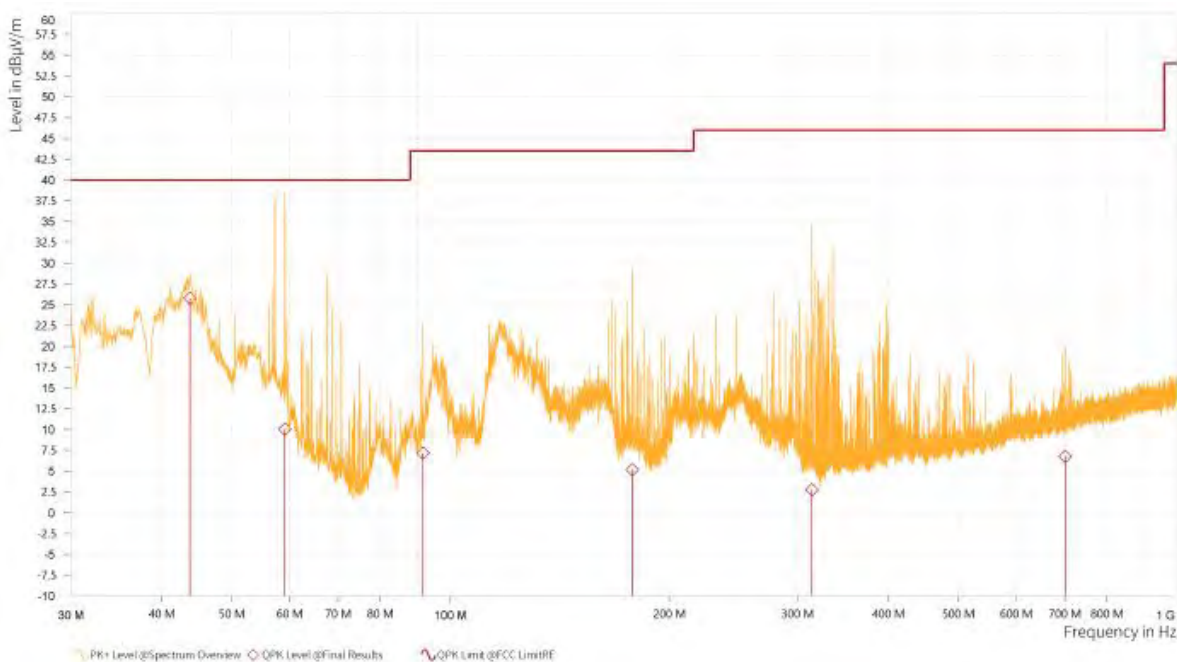
Test Report No.: W7L-P22090023RF01

2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission level.

CHANNEL	Channel 39	DETECTOR FUNCTION	Quasi-Peak (QP)
FREQUENCY RANGE	30MHz ~ 1GHz		

ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M
--

Rg	Frequency [MHz]	QPK Level [dBμV/m]	QPK Limit [dBμV/m]	QPK Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]	Meas. BW [kHz]
1	43.774	25.78	40.00	14.22	-17.03	V	1	1	120.000
1	59.149	10.05	40.00	29.95	-19.63	V	261.2	1	120.000
1	91.692	7.14	43.50	36.36	-23.54	V	261.2	1	120.000
1	177.877	5.17	43.50	38.33	-25.79	V	127.3	1	120.000
1	314.453	2.75	46.00	43.25	-21.30	V	127.3	1	120.000
1	701.386	6.75	46.00	39.25	-15.58	V	4.4	1	120.000



REMARKS:

1. Emission Level(dBuV/m) = Read Level(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Limit value – Emission level.

ABOVE 1GHz WORST-CASE DATA:

Note: 1. For radiated emissions testing , the full testing range of different modes have been scanned , only the worst case harmonic data is reported in the sheet.

2. All other emissions that greater than 20dB below the limit were not recorded

BT_GFSK

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,390.000	29.54	54.00	24.46	9.84	H	161.2	3
1	2,402.000	84.62			9.85	H	359.9	2

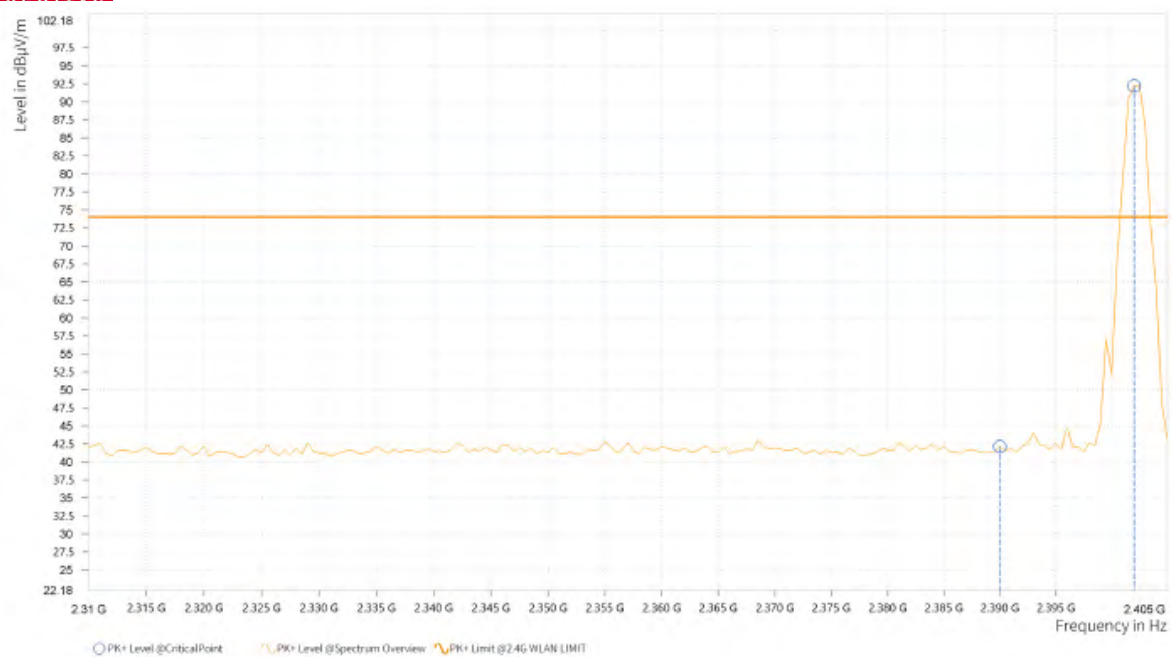


Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,390.000	42.13	74.00	31.87	9.84	H	121.6	2
1	2,402.000	92.20			9.85	H	137.8	2



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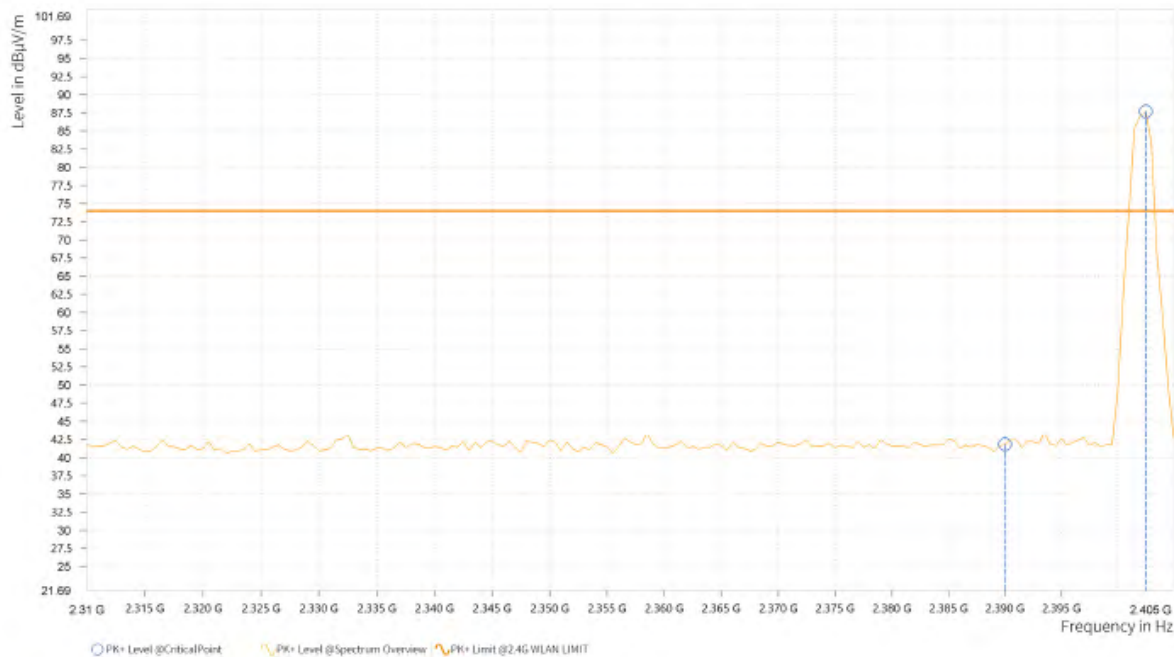


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,390.000	29.70	54.00	24.30	9.84	V	286.8	1
1	2,402.000	81.99			9.85	V	285	3



Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,390.000	41.83	74.00	32.17	9.84	V	33.2	1
1	2,402.500	87.69			9.85	V	230.3	1



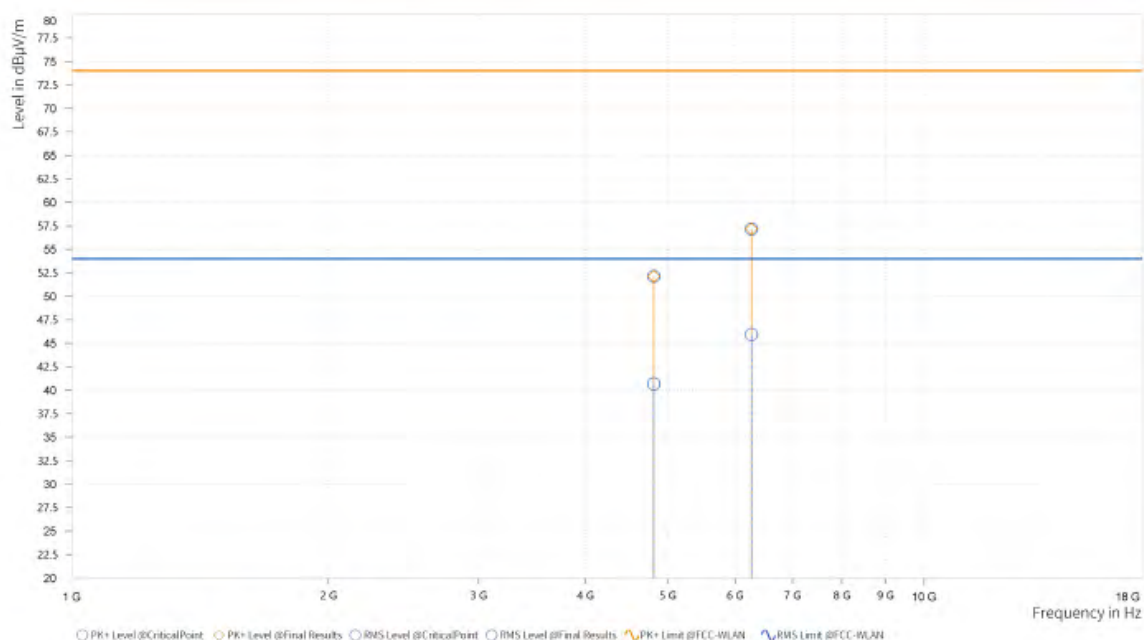
REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Limit value – Emission level.
2. 2402MHz: Fundamental frequency.

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

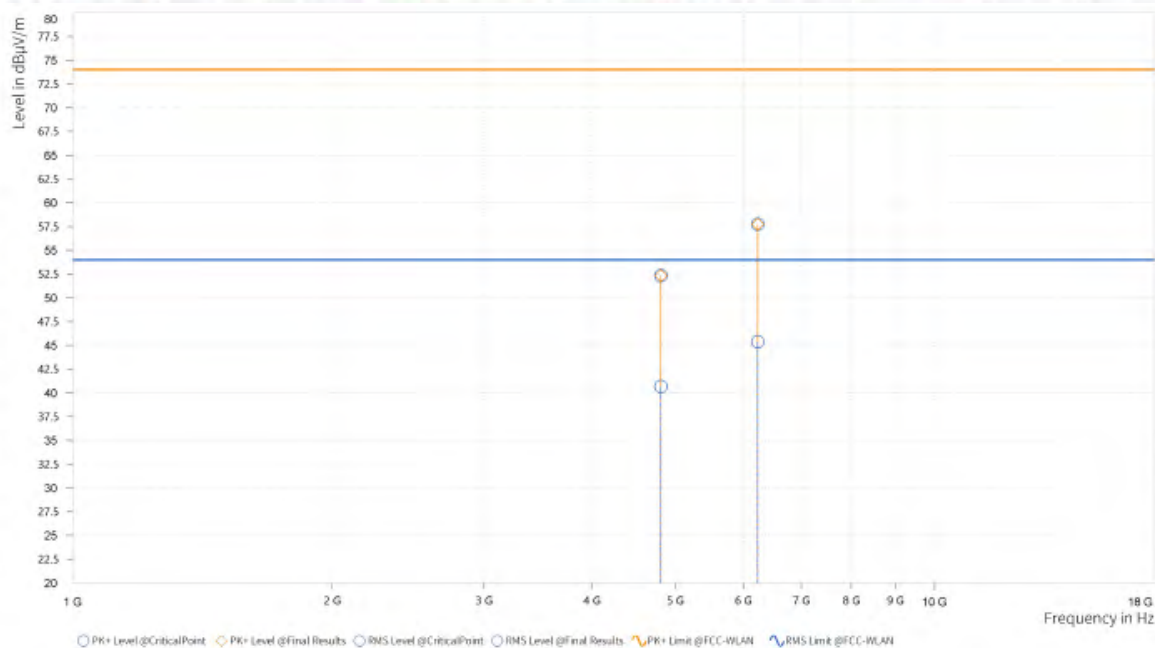
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	RMS Level [dBμV/m]	RMS Limit [dBμV/m]	RMS Margin [dB]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	4,815.971	40.68	54.00	13.32	52.12	74.00	21.88	15.75	H	359	1
3	6,267.485	45.93	54.00	8.07	57.16	74.00	16.84	21.14	H	1	2



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	RMS Level [dBμV/m]	RMS Limit [dBμV/m]	RMS Margin [dB]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	4,812.088	40.68	54.00	13.32	52.32	74.00	21.68	15.71	V	0.9	2
3	6,231.574	45.37	54.00	8.63	57.74	74.00	16.26	21.09	V	171.1	1



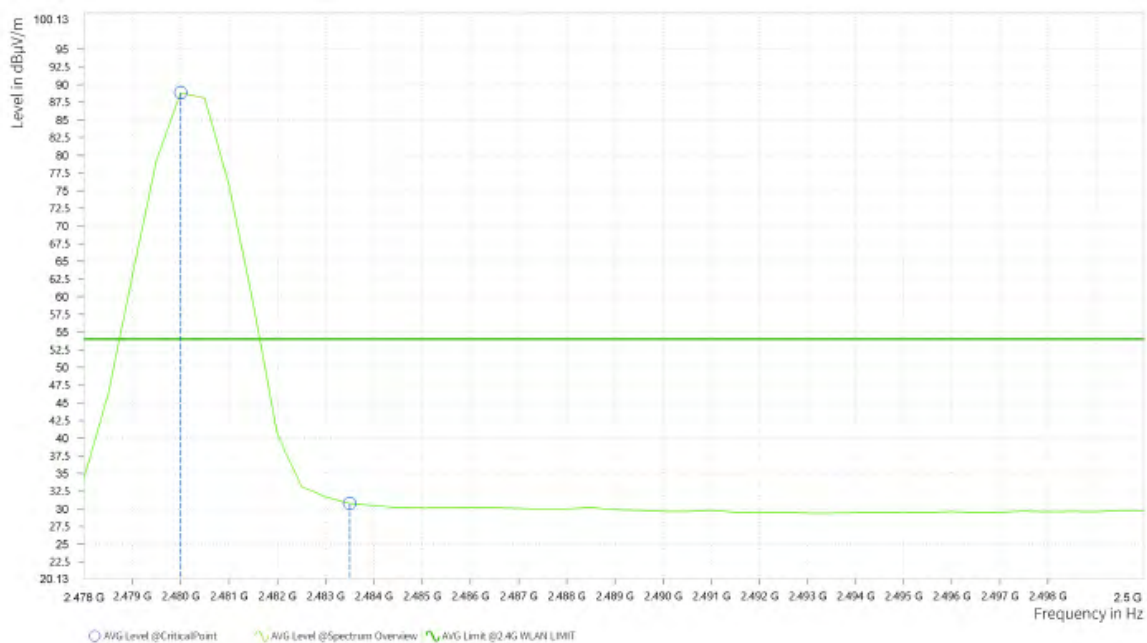
REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Limit value – Emission level.
2. 2441MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL	TX Channel 78	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.000	88.84			9.89	H	124.6	1
1	2,483.500	30.76	54.00	23.24	9.88	H	322.6	1



Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.000	94.84			9.89	H	151.2	2
1	2,483.500	41.71	74.00	32.29	9.88	H	32.3	1

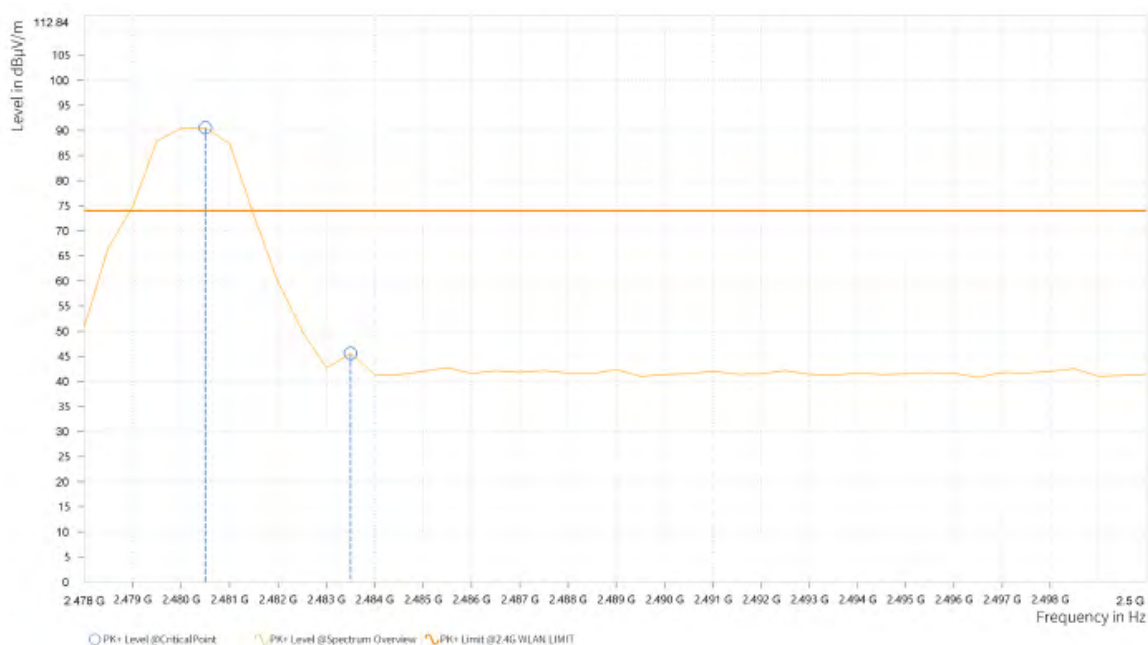


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.000	89.31			9.89	V	224	1
1	2,483.500	29.99	54.00	24.01	9.88	V	53.8	1



Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.500	90.55			9.89	V	281.4	3
1	2,483.500	45.56	74.00	28.44	9.88	V	139.8	1



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Limit value – Emission level.
2. 2480MHz: Fundamental frequency.



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Test Report No.: W7L-P22090023RF01

BT_π/4-DQPSK

CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,390.000	29.66	54.00	24.34	9.84	H	179.2	1
1	2,402.000	84.67			9.85	H	343	2



Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,390.000	41.02	74.00	32.98	9.84	H	101.8	2
1	2,402.500	91.70			9.85	H	326.7	2

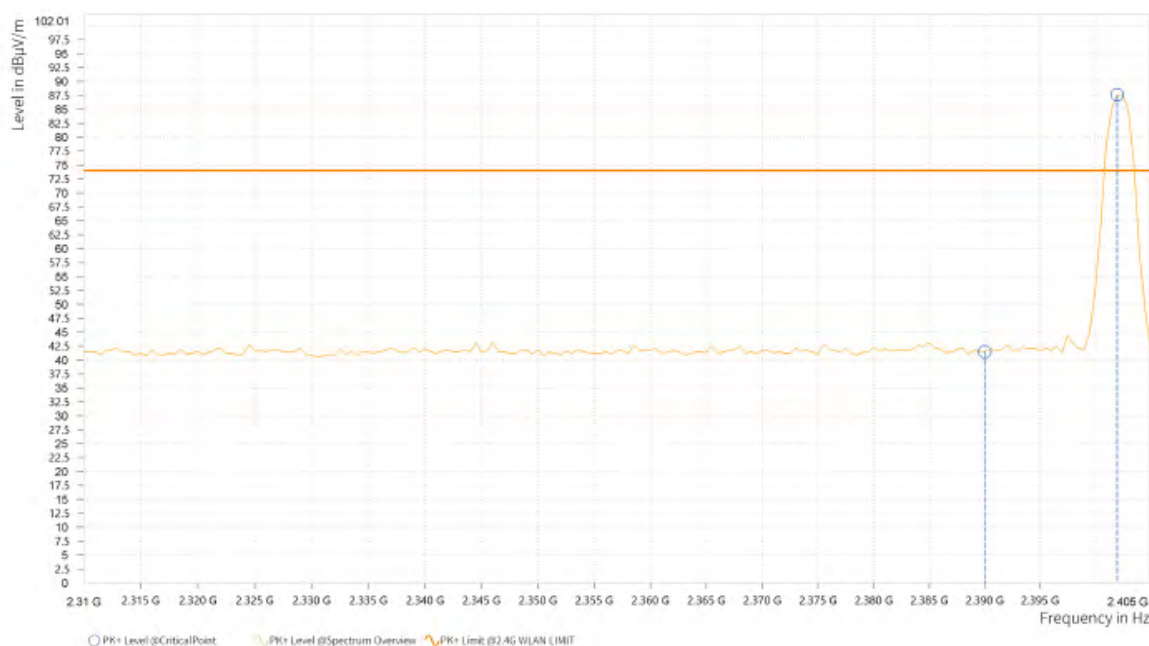


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,390.000	29.64	54.00	24.36	9.84	V	106.6	3
1	2,402.000	80.84			9.85	V	360	1



Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,390.000	41.48	74.00	32.52	9.84	V	205.3	3
1	2,402.000	87.62			9.85	V	223.1	1



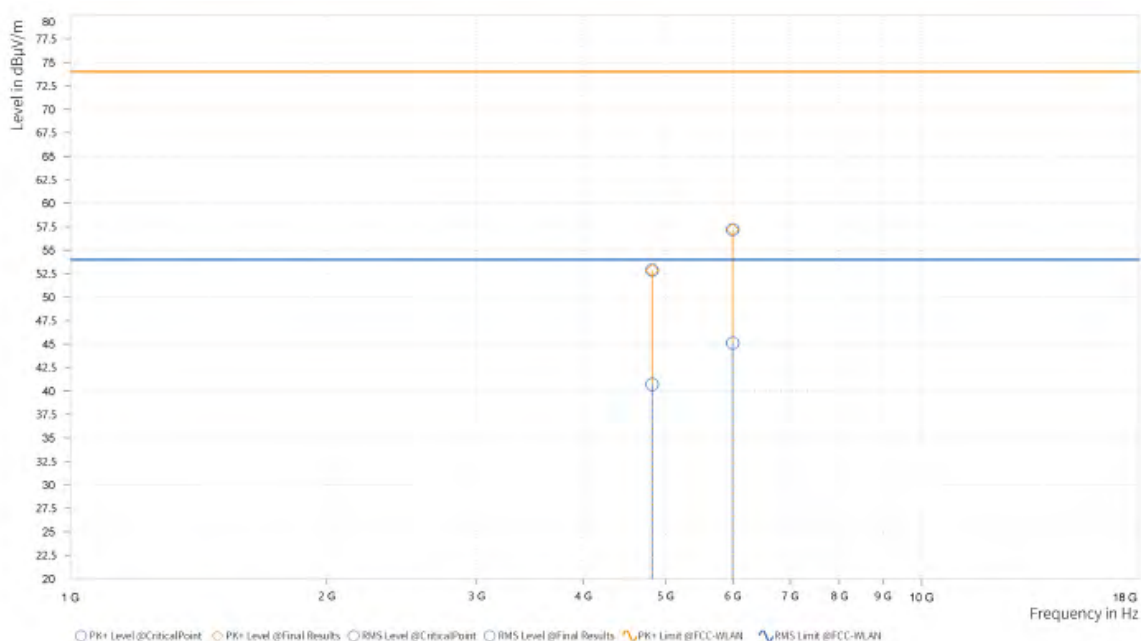
REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Limit value – Emission level.
2. 2402MHz: Fundamental frequency.

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

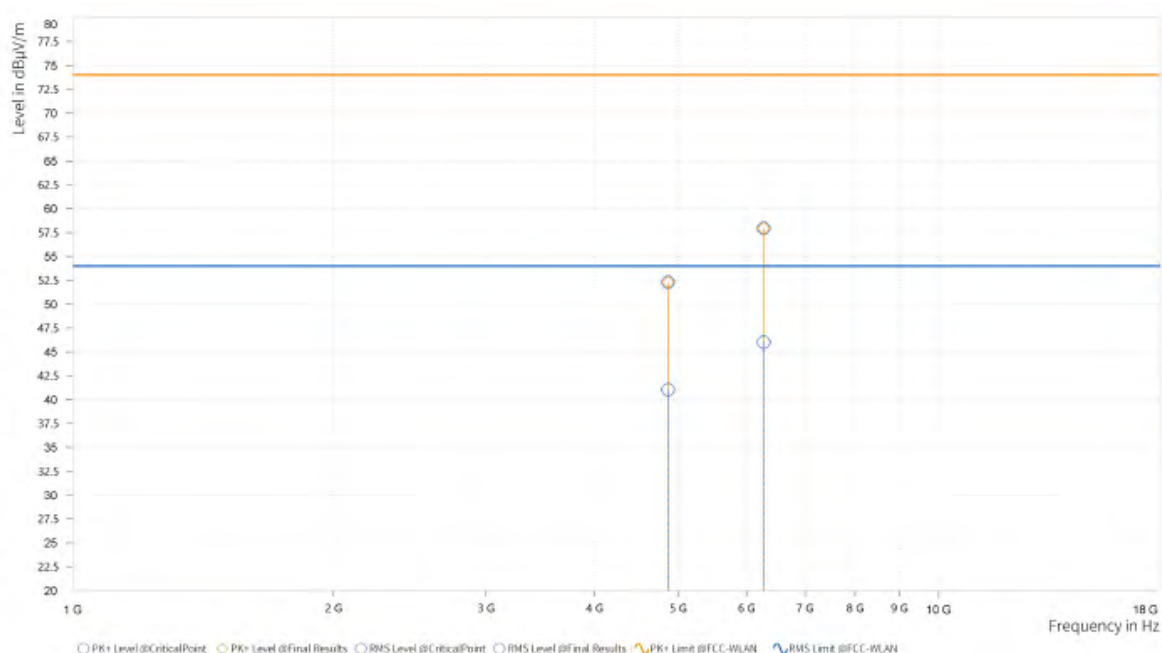
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK

Rg	Frequency [MHz]	RMS Level [dBuV/m]	RMS Limit [dBuV/m]	RMS Margin [dB]	PK+ Level [dBuV/m]	PK+ Limit [dBuV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	4,821.309	40.69	54.00	13.31	52.85	74.00	21.15	15.80	H	359	2
3	5,994.750	45.11	54.00	8.89	57.18	74.00	16.82	20.11	H	0.9	2



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	RMS Level [dBμV/m]	RMS Limit [dBμV/m]	RMS Margin [dB]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	4,869.838	41.04	54.00	12.96	52.31	74.00	21.69	15.94	V	0.9	2
3	6,276.706	46.02	54.00	7.98	57.95	74.00	16.05	21.11	V	172.9	1



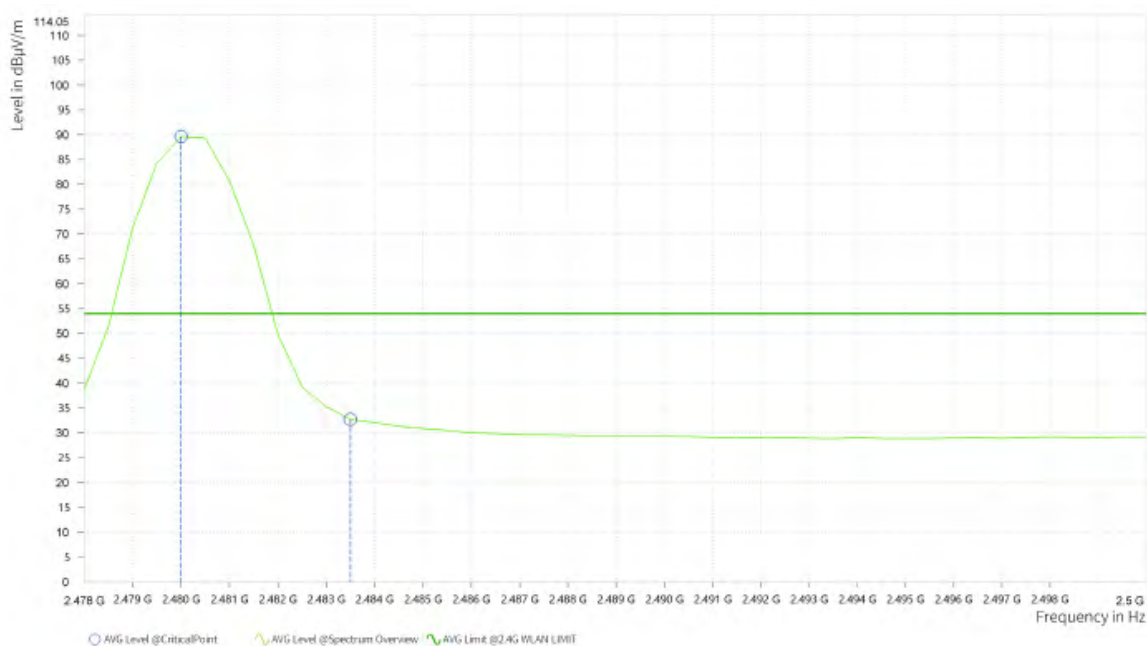
REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Limit value – Emission level.
2. 2441MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

CHANNEL	TX Channel 78	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB /m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK

Rg	Frequency [MHz]	AVG Level [dBuV/m]	AVG Limit [dBuV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.000	89.62			9.89	H	145.8	2
1	2,483.500	32.70	54.00	21.30	9.88	H	123.8	3

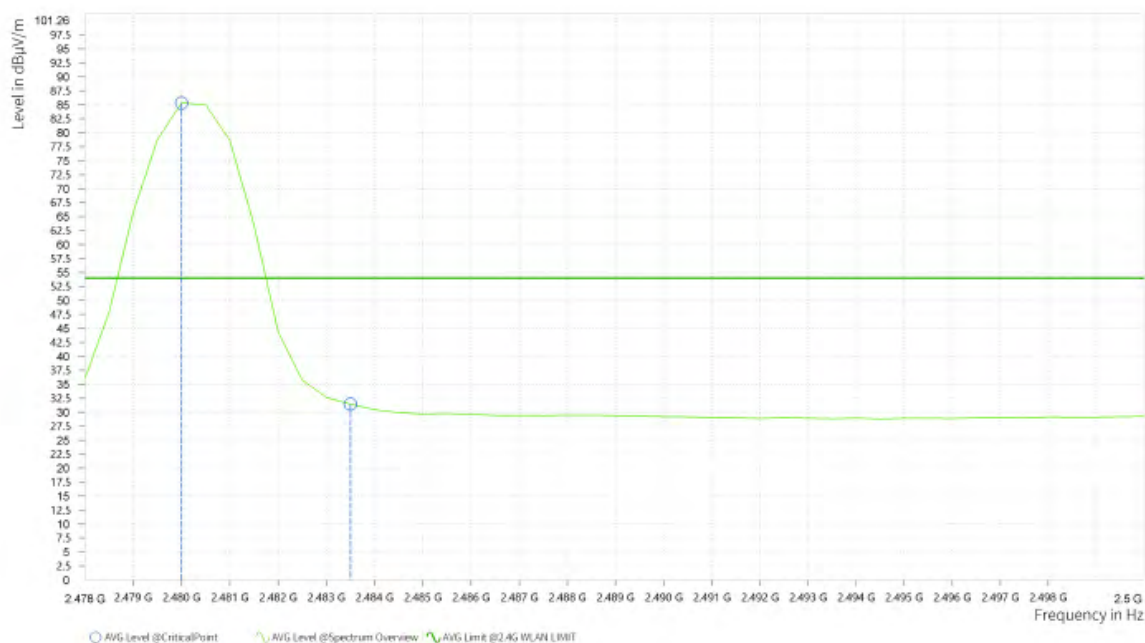


Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.500	94.89			9.89	H	152.9	2
1	2,483.500	44.96	74.00	29.04	9.88	H	152.9	2

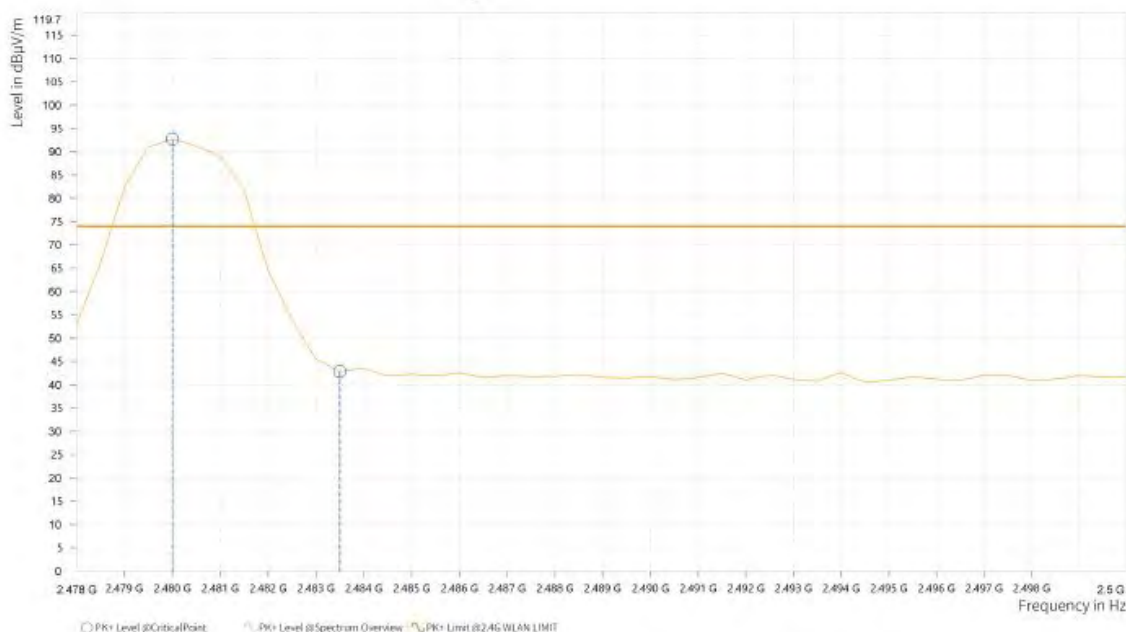


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.000	85.34			9.89	V	283.2	3
1	2,483.500	31.45	54.00	22.55	9.88	V	15.2	1



Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.000	92.74			9.89	V	226.7	1
1	2,483.500	42.84	74.00	31.16	9.88	V	314.6	1



REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Limit value – Emission level.
2. 2480MHz: Fundamental frequency.

BT_8DPSK

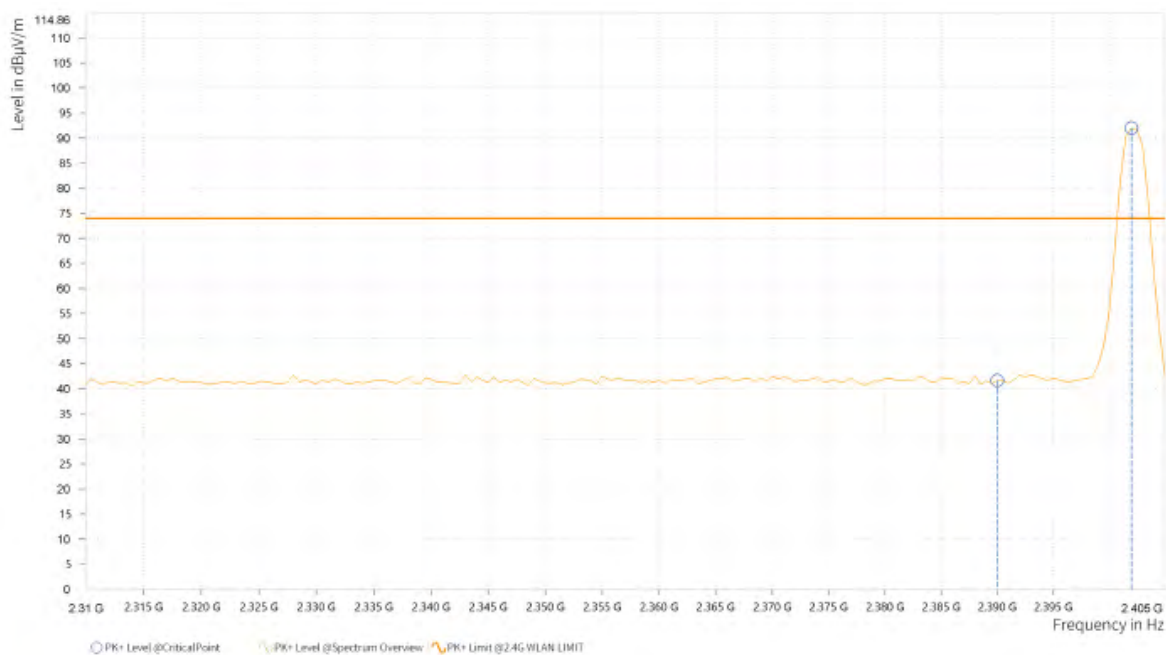
CHANNEL	TX Channel 0	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,390.000	29.72	54.00	24.28	9.84	H	359.9	3
1	2,402.000	84.66			9.85	H	73.2	2



Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,390.000	41.64	74.00	32.36	9.84	H	276.1	1
1	2,402.000	92.00			9.85	H	153	2

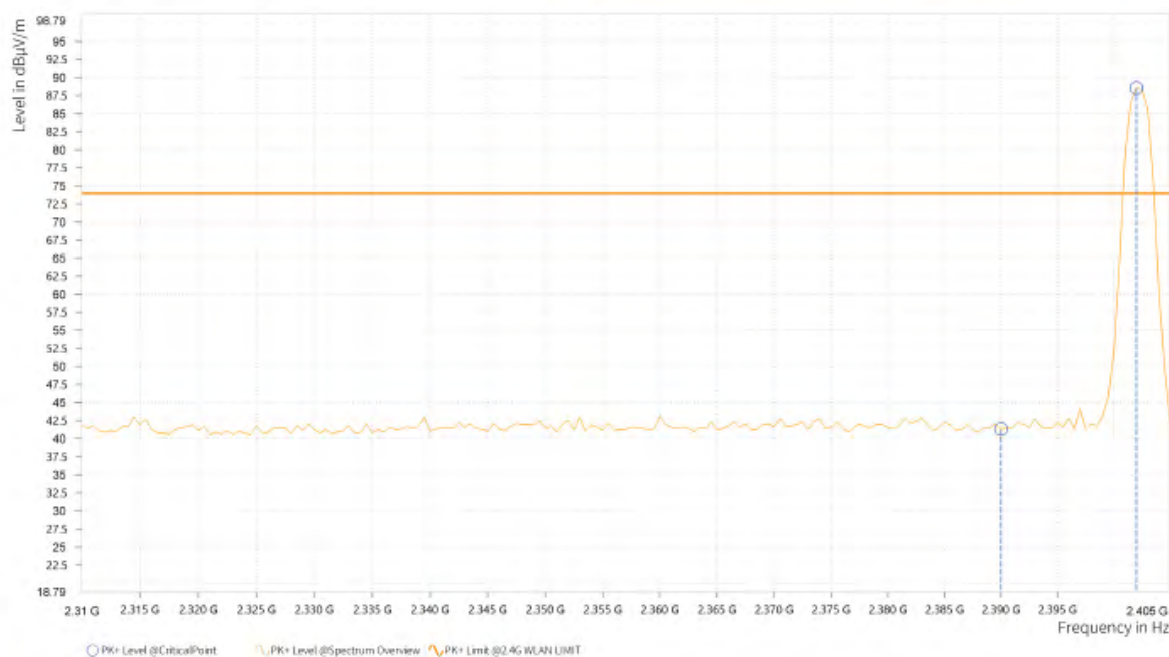


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,390.000	29.60	54.00	24.40	9.84	V	304.6	1
1	2,402.000	80.87			9.85	V	353.3	1



Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,390.000	41.32	74.00	32.68	9.84	V	86	3
1	2,402.000	88.57			9.85	V	4.2	1



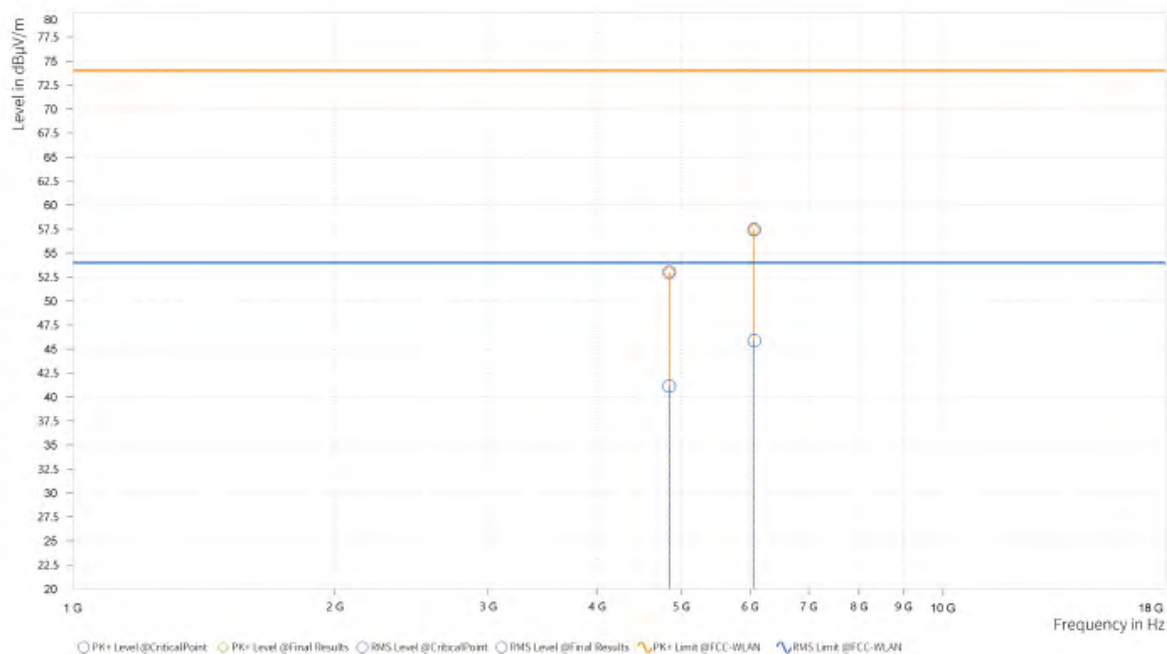
REMARKS:

- Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Limit value – Emission level.
- 2402MHz: Fundamental frequency.

CHANNEL	TX Channel 39	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

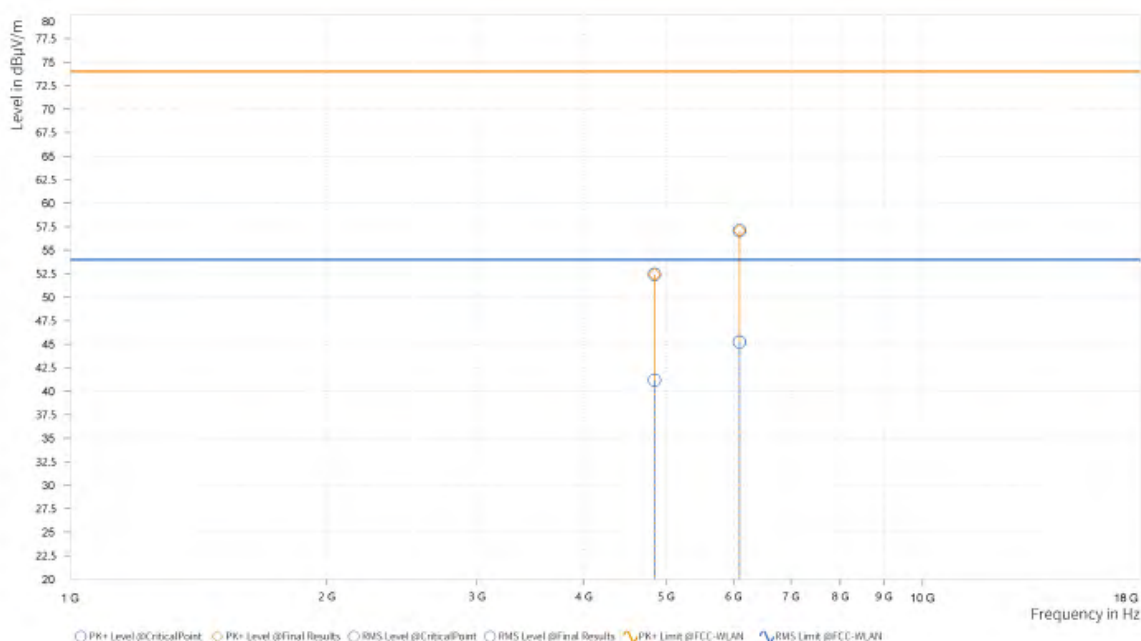
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	RMS Level [dBμV/m]	RMS Limit [dBμV/m]	RMS Margin [dB]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	4,845.088	41.13	54.00	12.87	53.00	74.00	21.00	15.90	H	359	2
3	6,066.088	45.87	54.00	8.13	57.43	74.00	16.57	20.62	H	359	2



ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	RMS Level [dBμV/m]	RMS Limit [dBμV/m]	RMS Margin [dB]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
3	4,846.059	41.18	54.00	12.82	52.43	74.00	21.57	15.90	V	187	2
3	6,096.176	45.23	54.00	8.77	57.08	74.00	16.92	20.48	V	1	2



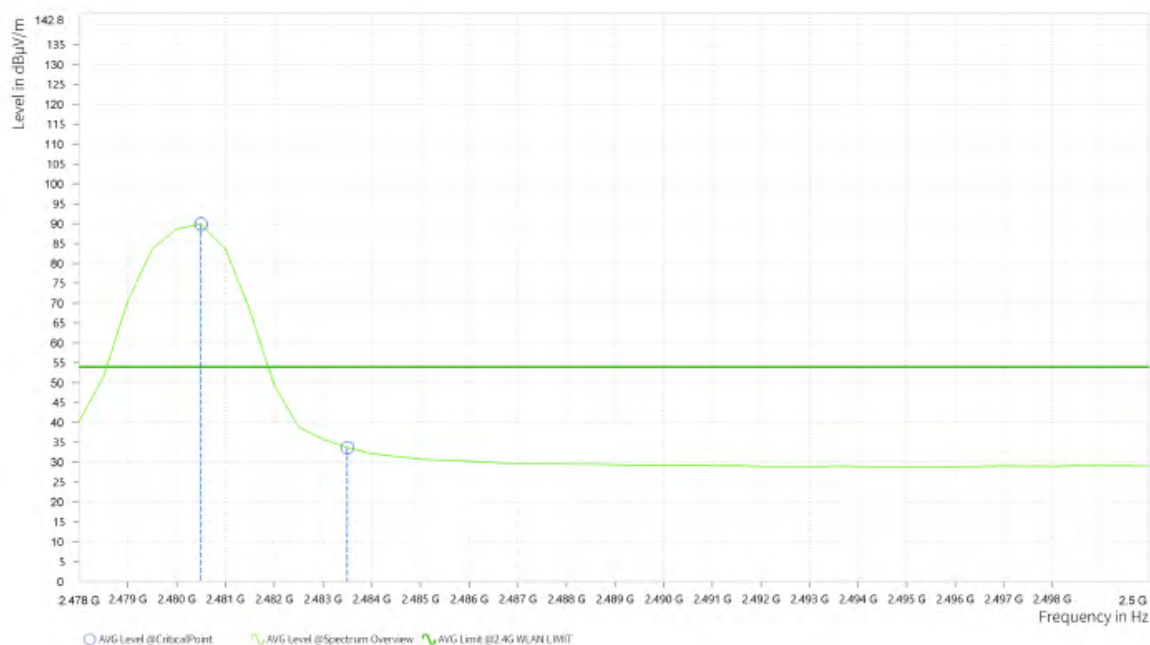
REMARKS:

1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Limit value – Emission level.
2. 2441MHz: Fundamental frequency.
3. For frequency above 18GHz, the emission was tested 20db below the limit so the data not recorded in the sheet.

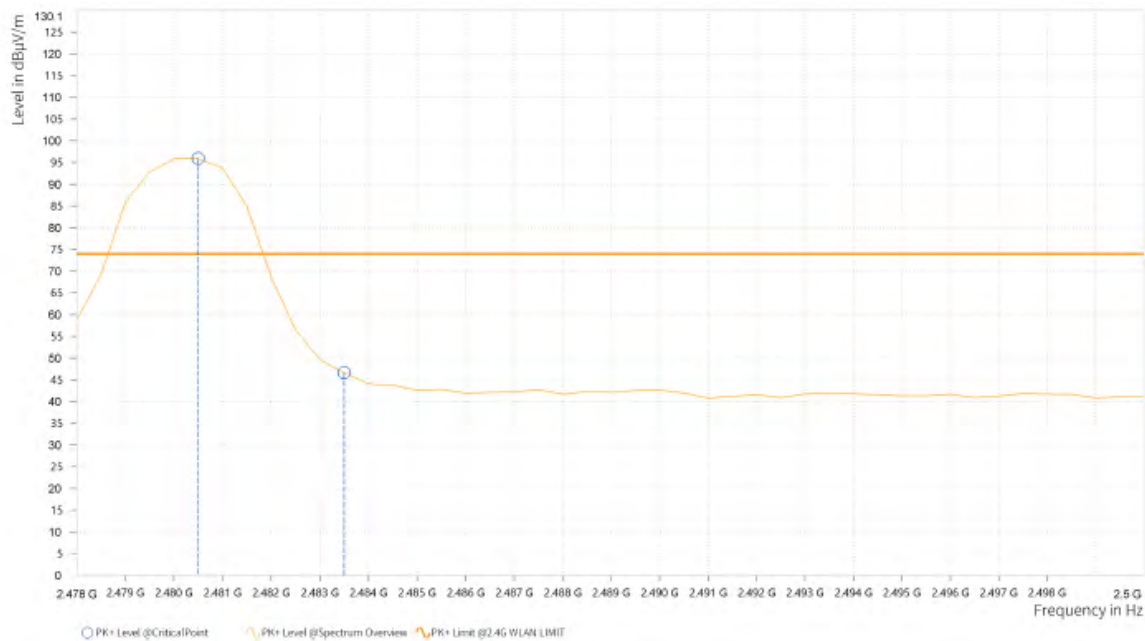
CHANNEL	TX Channel 78	DETECTOR FUNCTION	Peak (PK)
FREQUENCY RANGE	1GHz ~ 25GHz		Average (AV)

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.500	89.90			9.89	H	150.2	2
1	2,483.500	33.70	54.00	20.30	9.88	H	150.2	2

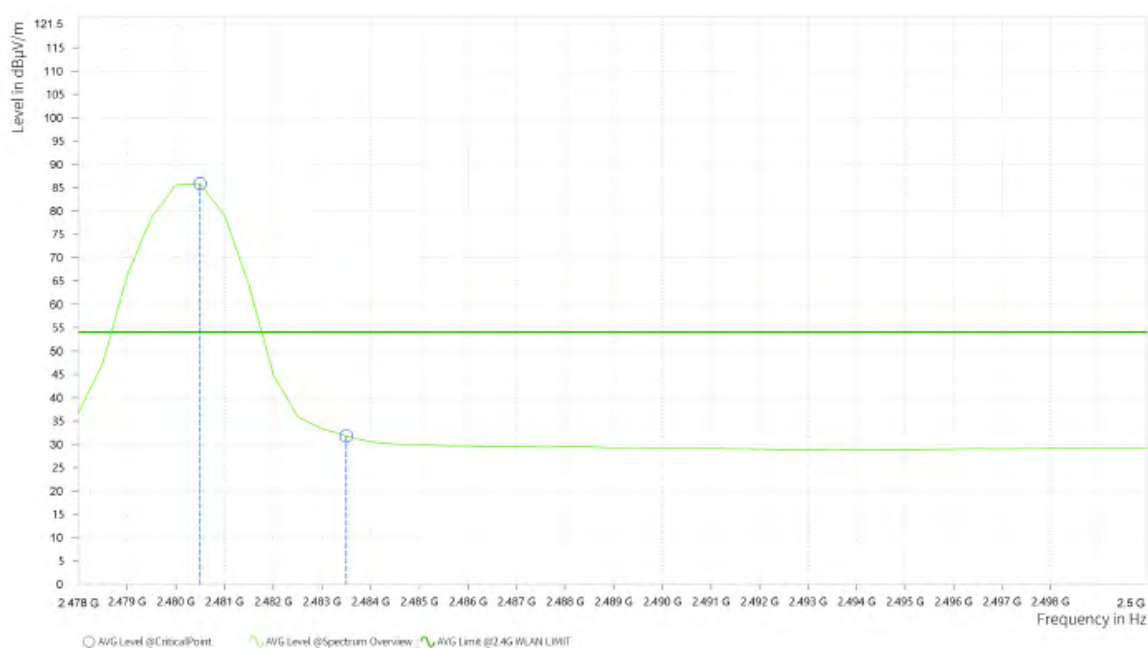


Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.500	95.90			9.89	H	149.4	2
1	2,483.500	46.65	74.00	27.35	9.88	H	122	3

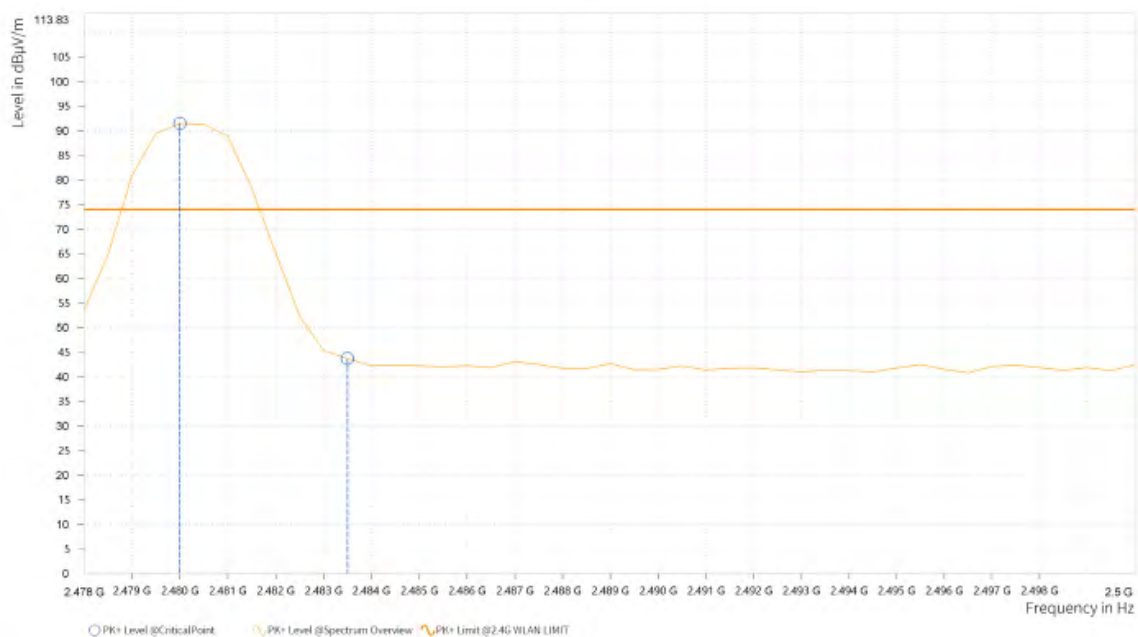


ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M

Rg	Frequency [MHz]	AVG Level [dBμV/m]	AVG Limit [dBμV/m]	AVG Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.500	85.86			9.89	V	41.8	2
1	2,483.500	31.73	54.00	22.27	9.88	V	41.8	2



Rg	Frequency [MHz]	PK+ Level [dBμV/m]	PK+ Limit [dBμV/m]	PK+ Margin [dB]	Correction [dB]	Polarization	Azimuth [deg]	Antenna Height [m]
1	2,480.000	91.46			9.89	V	141.6	1
1	2,483.500	43.66	74.00	30.34	9.88	V	141.6	1



REMARKS:

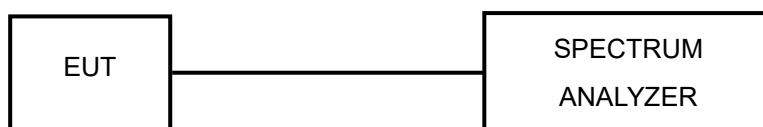
1. Emission Level = Read Level+ Antenna Factor + Cable Loss- Preamp Factor
Margin value = Limit value – Emission level.
2. 2480MHz: Fundamental frequency.

3.3 NUMBER OF HOPPING FREQUENCY USED

3.3.1 LIMIT OF HOPPING FREQUENCY USED

At least 15 channels frequencies, and should be equally spaced.

3.3.2 TEST SETUP



3.3.3 TEST INSTRUMENTS

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Power Meter	ANRITSU	ML2495A	1506002	Feb. 22,22	Feb. 21,23
EXA Signal Analyzer	KEYSIGHT	N9010A-526	MY54510322	Feb. 18,22	Feb. 17,23
EXA Signal Analyzer	KEYSIGHT	N9010A-544	MY54510355	May.15,22	May.14,23
Power Sensor	ANRITSU	MA2411B	1339352	May. 06,22	May. 05,23

NOTE:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
2. The test was performed in RF Oven room.



Test Report No.: W7L-P22090023RF01

3.3.4 TEST PROCEDURES

- a. Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- c. Set the SA on MaxHold Mode, and then keep the EUT in hopping mode. Record all the signals from each channel until each one has been recorded.
- d. Set the SA on View mode and then plot the result on SA screen.
- e. Repeat above procedures until all frequencies measured were completed.

3.3.5 DEVIATION FROM TEST STANDARD

No deviation.

3.3.6 TEST RESULTS

There are 79 hopping frequencies in the hopping mode. Please refer to next two pages for the test result. On the plots, it shows that the hopping frequencies are equally spaced.

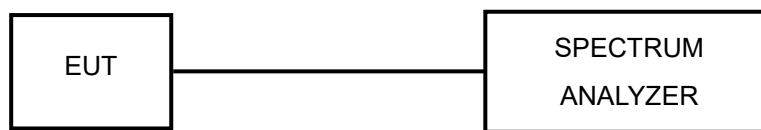
Please Refer to Appendix Of this test report.

3.4 DWELL TIME ON EACH CHANNEL

3.4.1 LIMIT OF DWELL TIME USED

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.

3.4.2 TEST SETUP



3.4.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.4.4 TEST PROCEDURES

- Check the calibration of the measuring instrument (SA) using either an internal calibrator or a known signal from an external generator.
- Turn on the EUT and connect its antenna terminal to measurement via a low loss cable. Then set it to any one measured frequency within its operating range and make sure the instrument is operated in its linear range.
- Adjust the center frequency of SA on any frequency be measured and set SA to zero span mode. And then, set RBW and VBW of spectrum analyzer to proper value.
- Measure the time duration of one transmission on the measured frequency. And then plot the result with time difference of this time duration.
- Repeat above procedures until all different time-slot modes have been completed.



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3.4.5 DEVIATION FROM TEST STANDARD

No deviation.

3.4.6 TEST RESULTS

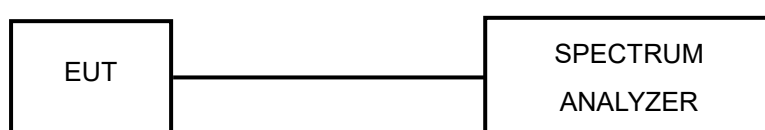
Please Refer to Appendix Of this test report

3.5 CHANNEL BANDWIDTH

3.5.1 LIMITS OF CHANNEL BANDWIDTH

For frequency hopping system operating in the 2400-2483.5MHz, If the 20dB bandwidth of hopping channel is greater than 25kHz, two-thirds 20dB bandwidth of hopping channel shall be a minimum limit for the hopping channel separation.

3.5.2 TEST SETUP



3.5.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.5.4 TEST PROCEDURE

- a. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- c. Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.
- d. Repeat above procedures until all frequencies measured were complete.

3.5.5 DEVIATION FROM TEST STANDARD

No deviation.



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3.5.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.5.7 TEST RESULTS

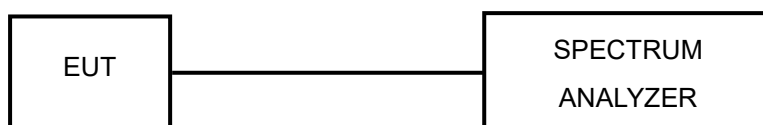
Please Refer to Appendix Of this test report.

3.6 HOPPING CHANNEL SEPARATION

3.6.1 LIMIT OF HOPPING CHANNEL SEPARATION

At least 25kHz or two-third of 20dB hopping channel bandwidth (whichever is greater).

3.6.2 TEST SETUP



3.6.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.6.4 TEST PROCEDURES

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range.
3. By using the MaxHold function record the separation of two adjacent channels.
4. Measure the frequency difference of these two adjacent channels by SA MARK function. And then plot the result on SA screen.
5. Repeat above procedures until all frequencies measured were complete.

3.6.5 DEVIATION FROM TEST STANDARD

No deviation.

3.6.6 TEST RESULTS

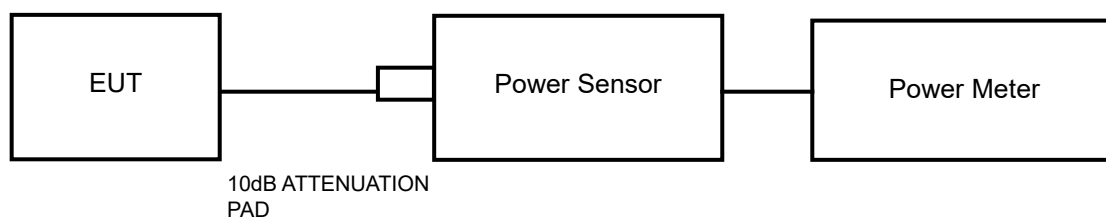
Please Refer to Appendix Of this test report.

3.7 MAXIMUM OUTPUT POWER

3.7.1 LIMITS OF MAXIMUM OUTPUT POWER MEASUREMENT

The Maximum Output Power Measurement is 125mW.

3.7.2 TEST SETUP



3.7.3 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.7.4 TEST PROCEDURES

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.



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3.7.5 DEVIATION FROM TEST STANDARD

No deviation.

3.7.6 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.



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3.7.7 TEST RESULTS

3.7.7.1 MAXIMUM PEAK OUTPUT POWER

Please Refer to Appendix Of this test report.



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3.7.7.2 Average Output Power (FOR REFERENCE)

The average power sensor was used on the output port of the EUT. A power meter was used to read the response of the power sensor. Record the power level.

Please Refer to Appendix Of this test report.

3.8 OUT OF BAND MEASUREMENT

3.8.1 LIMITS OF OUT OF BAND MEASUREMENT

Below -20dB of the highest emission level of operating band (in 100KHz RBW).

3.8.2 TEST INSTRUMENTS

Refer to section 3.3.3 to get information of above instrument.

3.8.3 TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer via a low loss cable. Spectrum Analyzer was set RBW to 100 kHz and VBW to 300 kHz with suitable frequency span including 100 MHz bandwidth from band edge. Detector = PEAK and Trace mode = Max Hold. The band edges was measured and recorded.

3.8.4 DEVIATION FROM TEST STANDARD

No deviation.

3.8.5 EUT OPERATING CONDITION

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

3.8.6 TEST RESULTS

The spectrum plots are attached on the following images. D1 line indicates the highest level. D2 line indicates the 20dB offset below D1. It shows compliance to the requirement.

Please Refer to Appendix Of this test report.



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4 PHOTOGRAPHS OF THE TEST CONFIGURATION

Please refer to the attached file (Test Setup Photo).



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5 MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

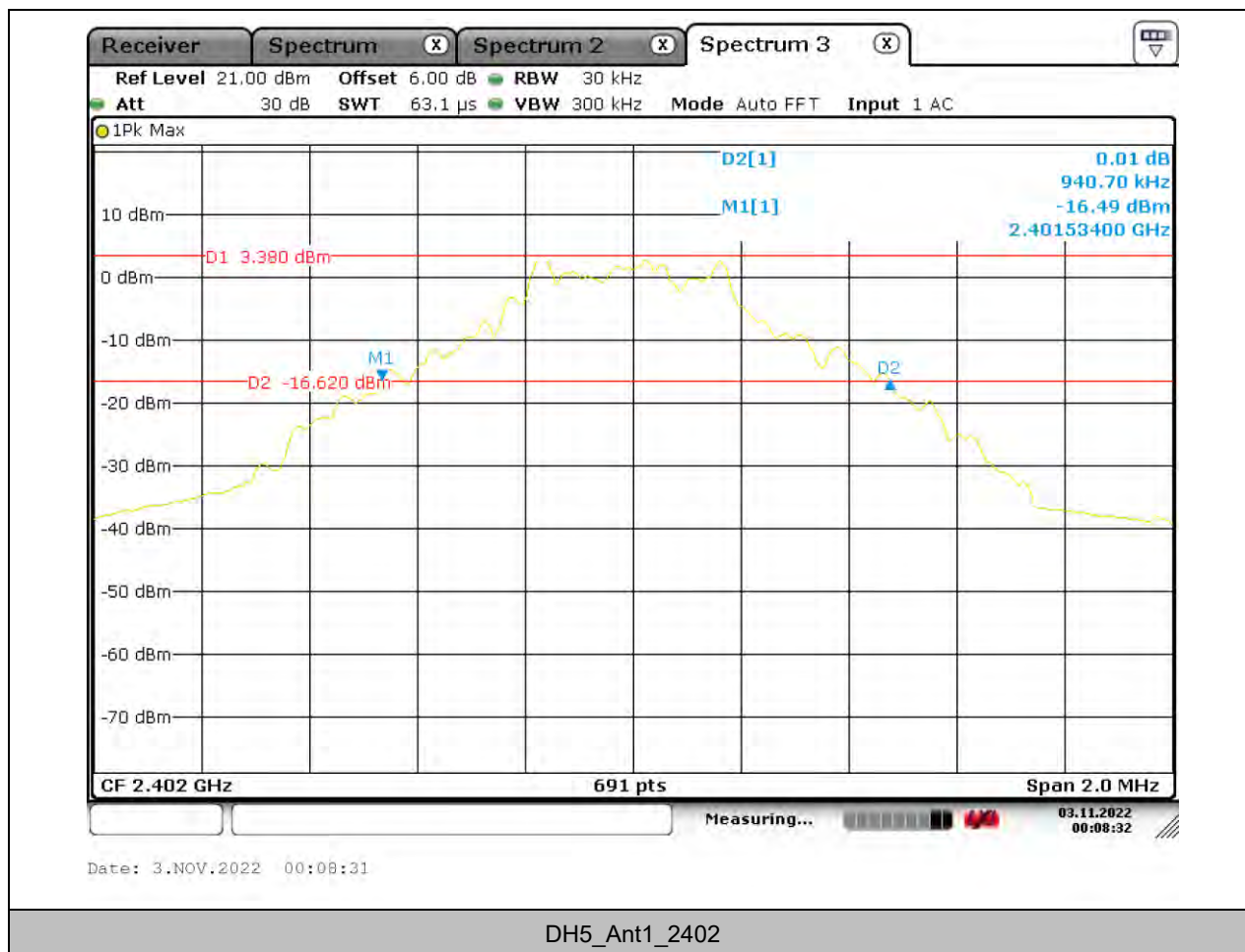
APPENDIX

20DB EMISSION BANDWIDTH

TEST RESULT

TestMode	Antenna	Channel	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.9407	2401.535	2402.480	---	PASS
		2441	0.9378	2440.538	2441.480	---	PASS
		2480	0.9378	2479.535	2480.480	---	PASS
2DH5	Ant1	2402	1.2822	2401.340	2402.654	---	PASS
		2441	1.2822	2440.358	2441.648	---	PASS
		2480	1.2822	2479.340	2480.651	---	PASS
3DH5	Ant1	2402	1.2851	2401.352	2402.627	---	PASS
		2441	1.2851	2440.340	2441.651	---	PASS
		2480	1.2851	2479.352	2480.627	---	PASS

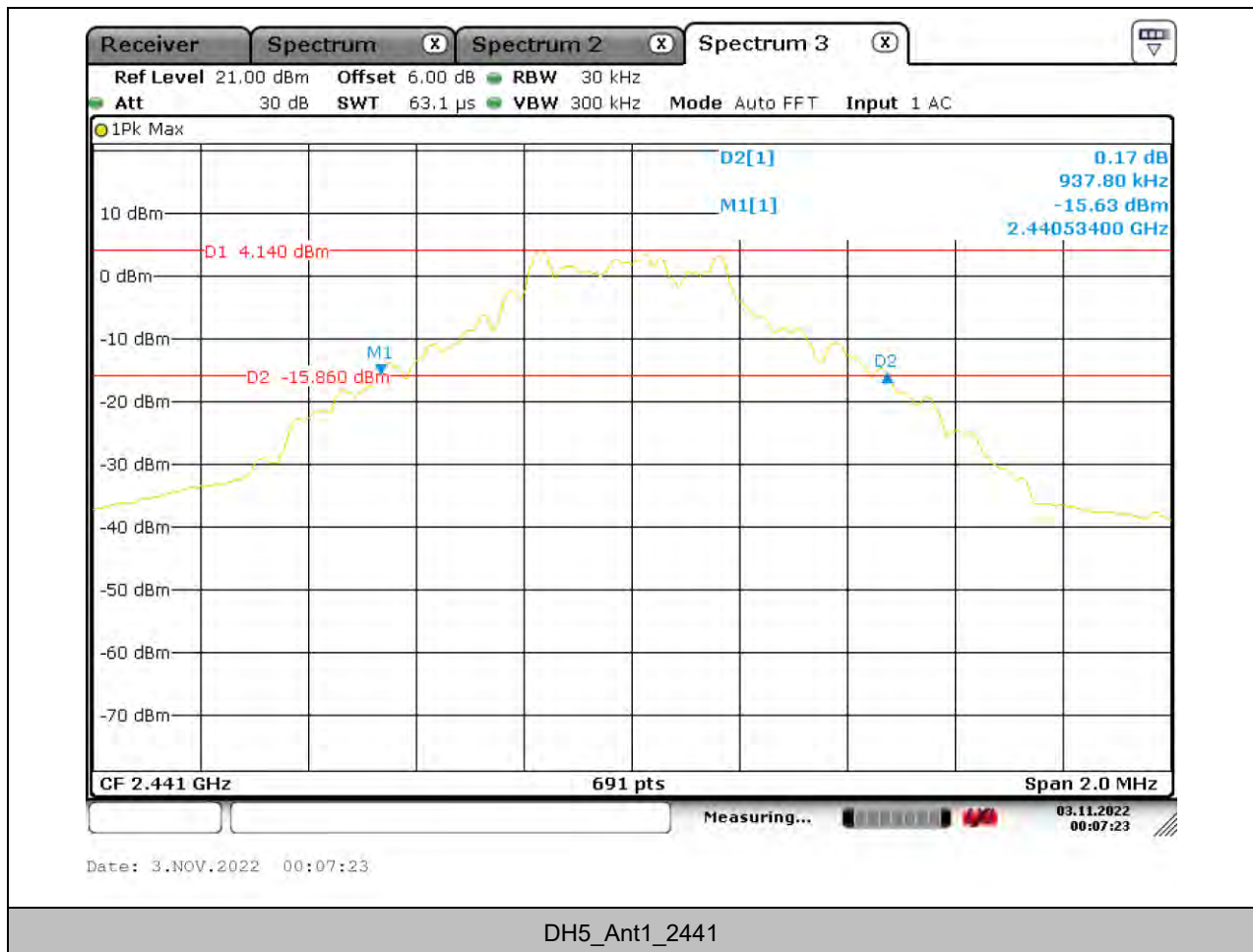
TEST GRAPHS





BUREAU
VERITAS

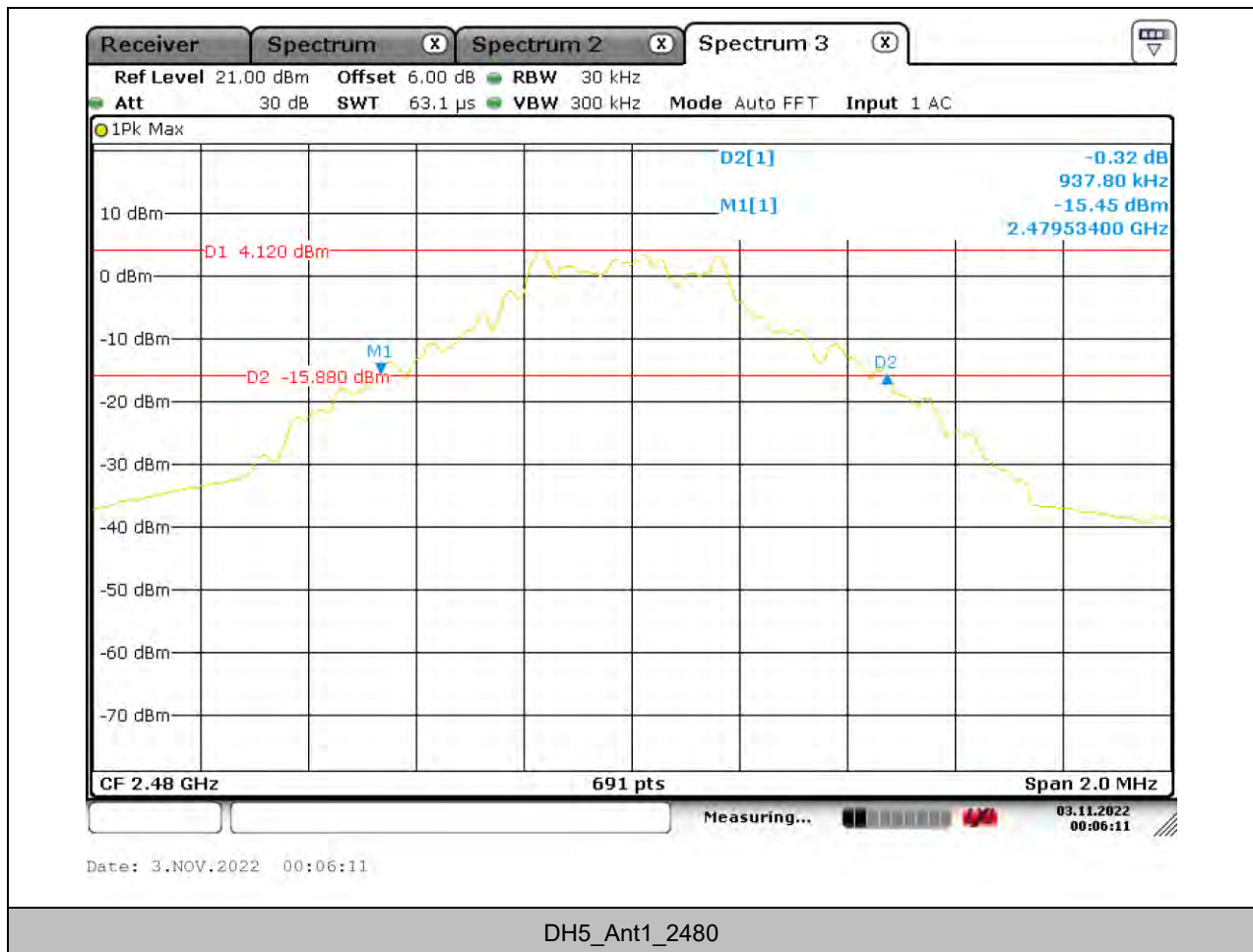
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

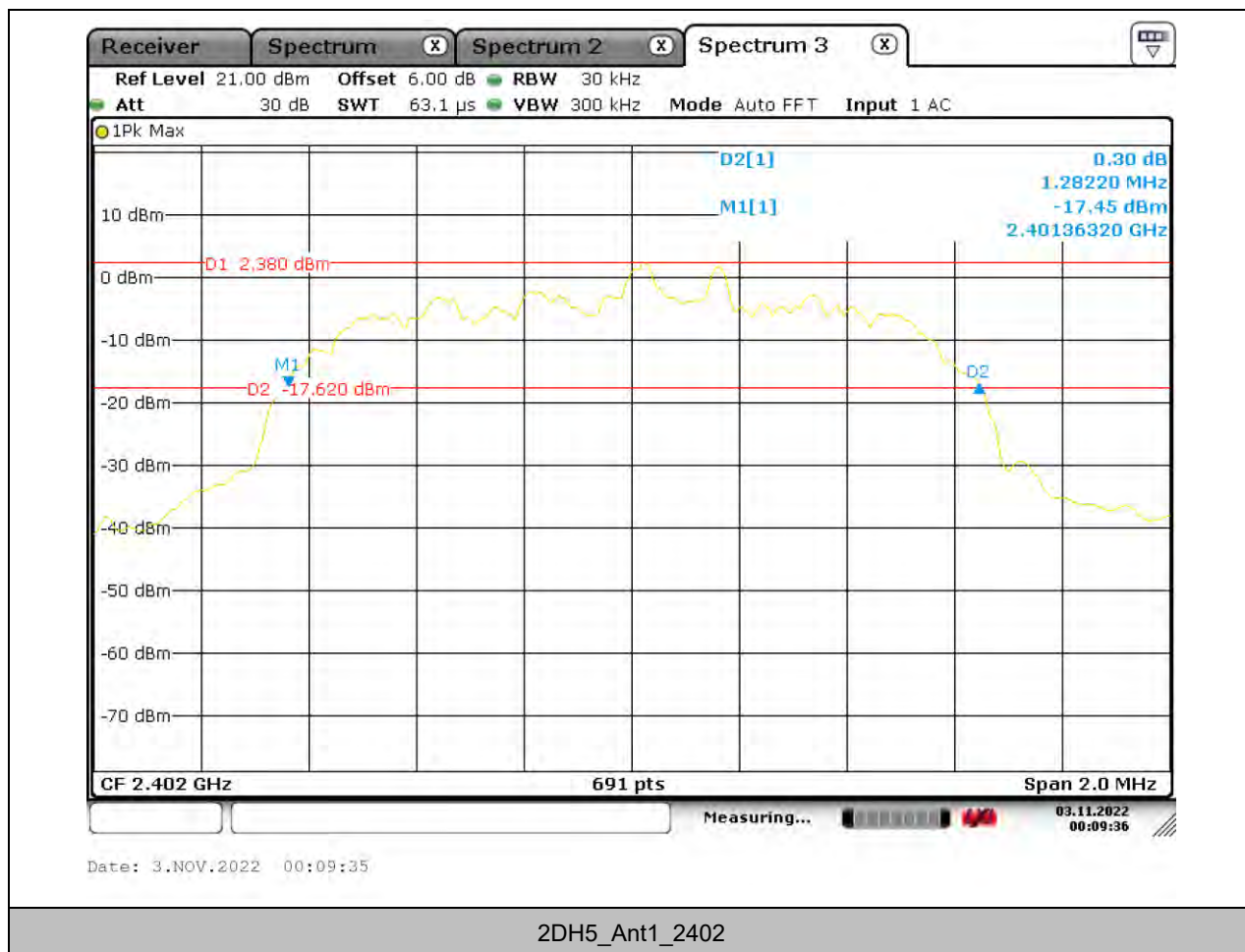
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

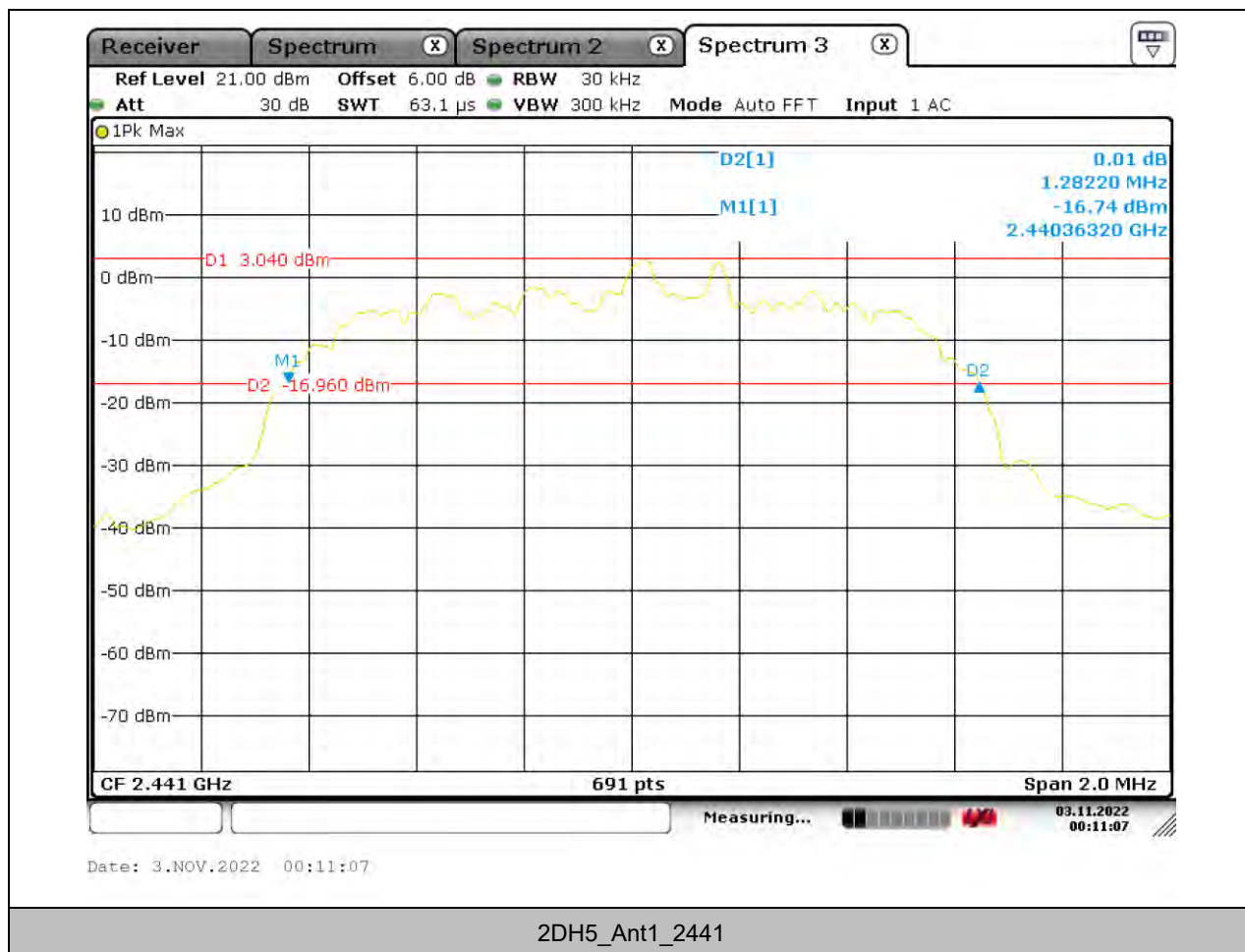
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

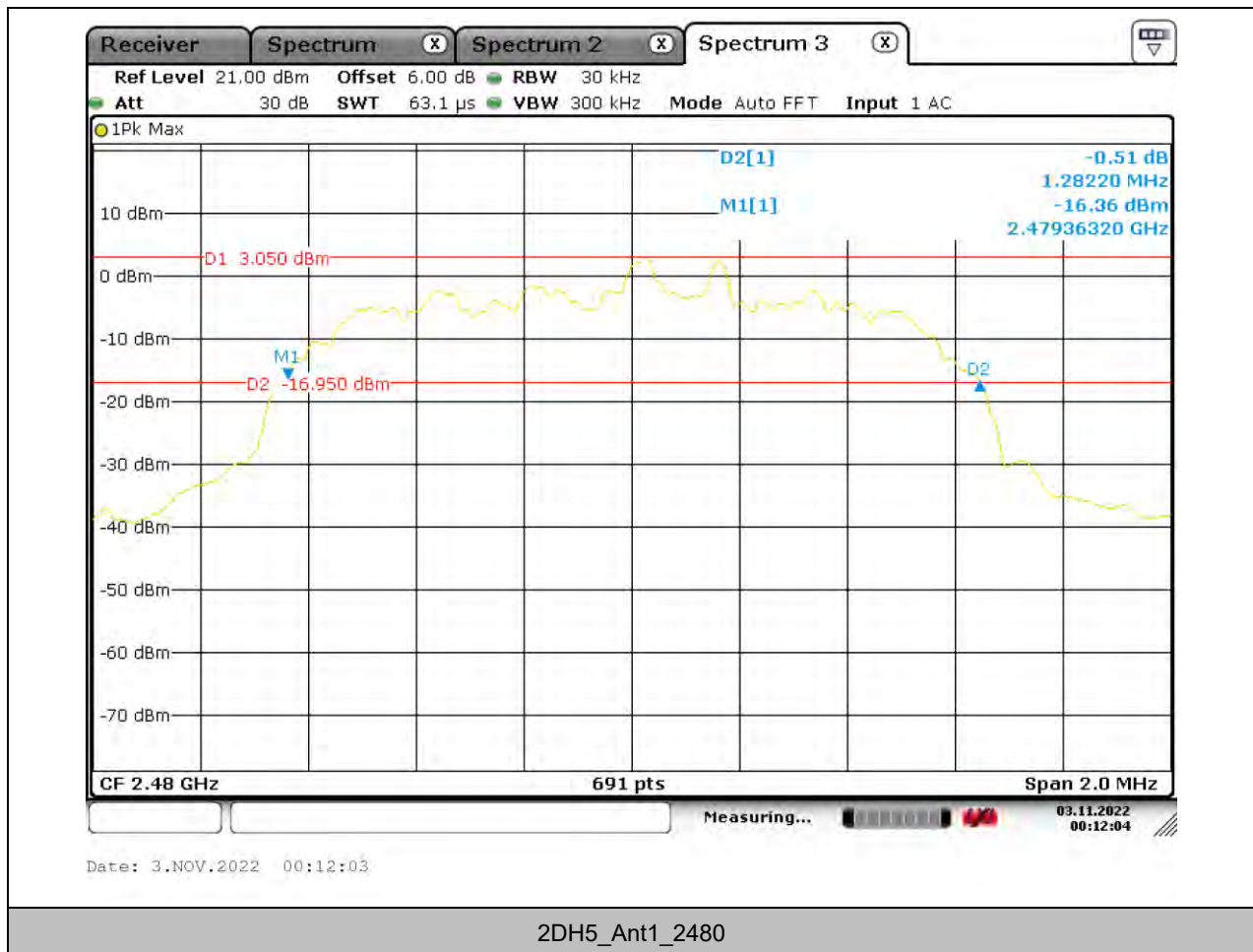
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

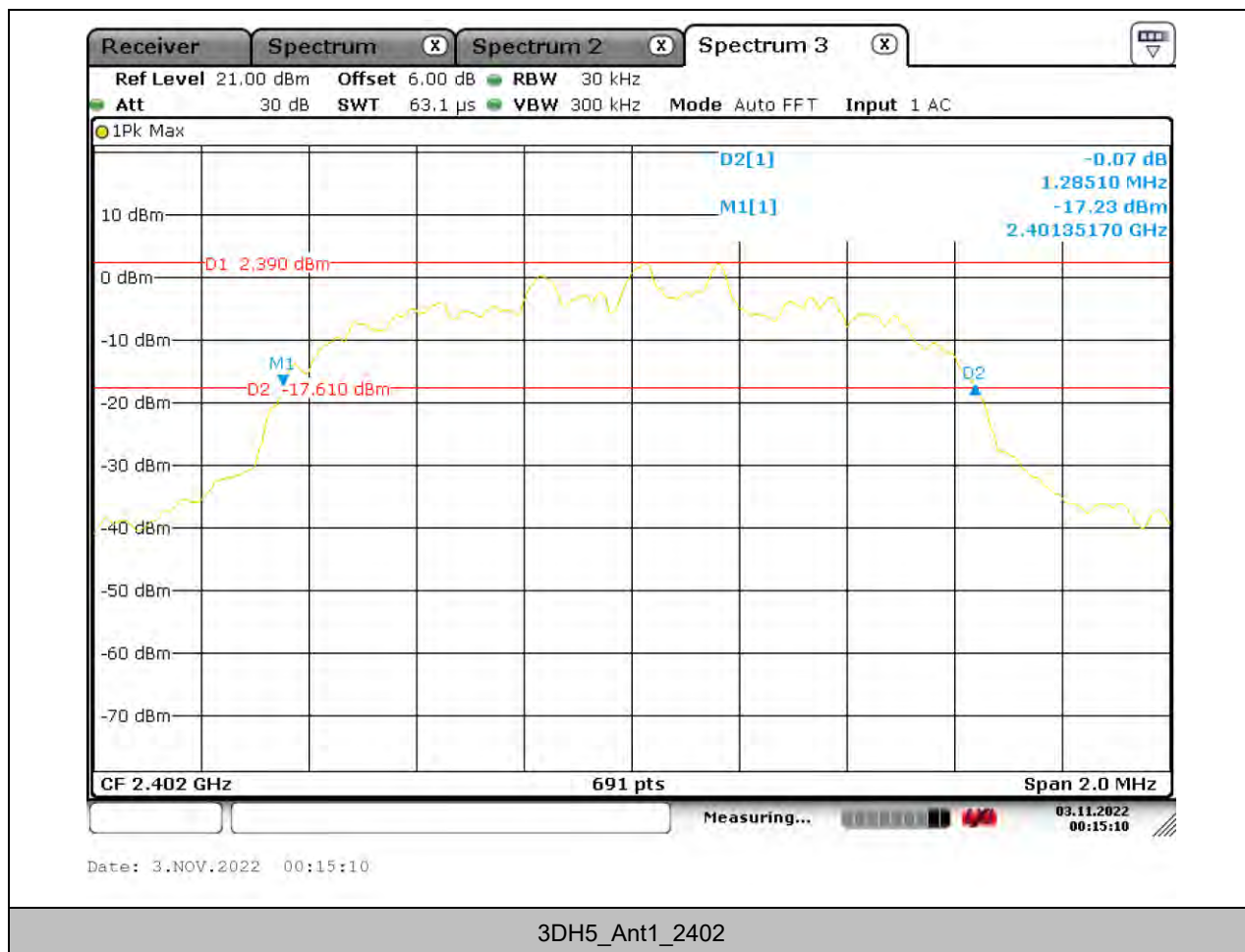
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

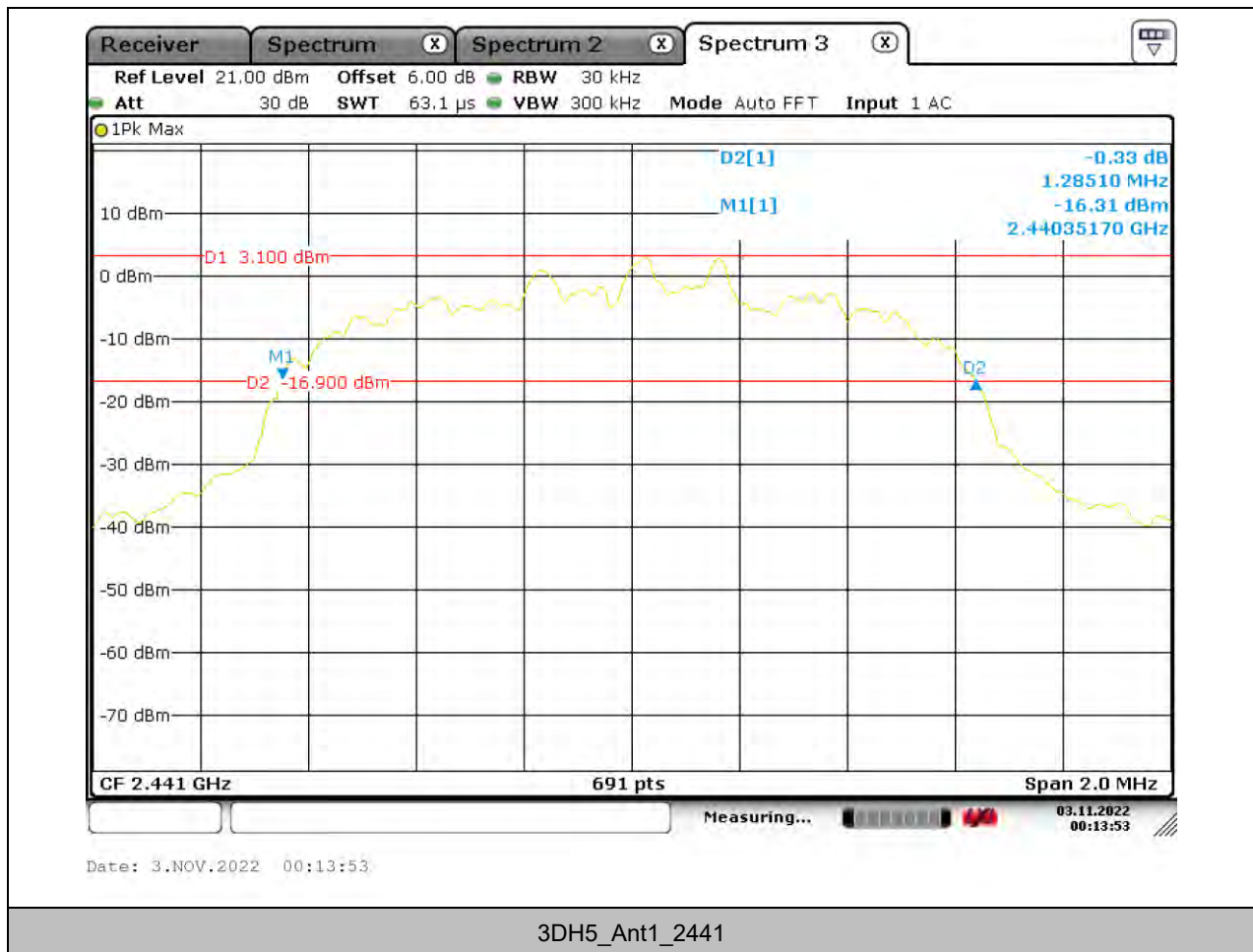
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

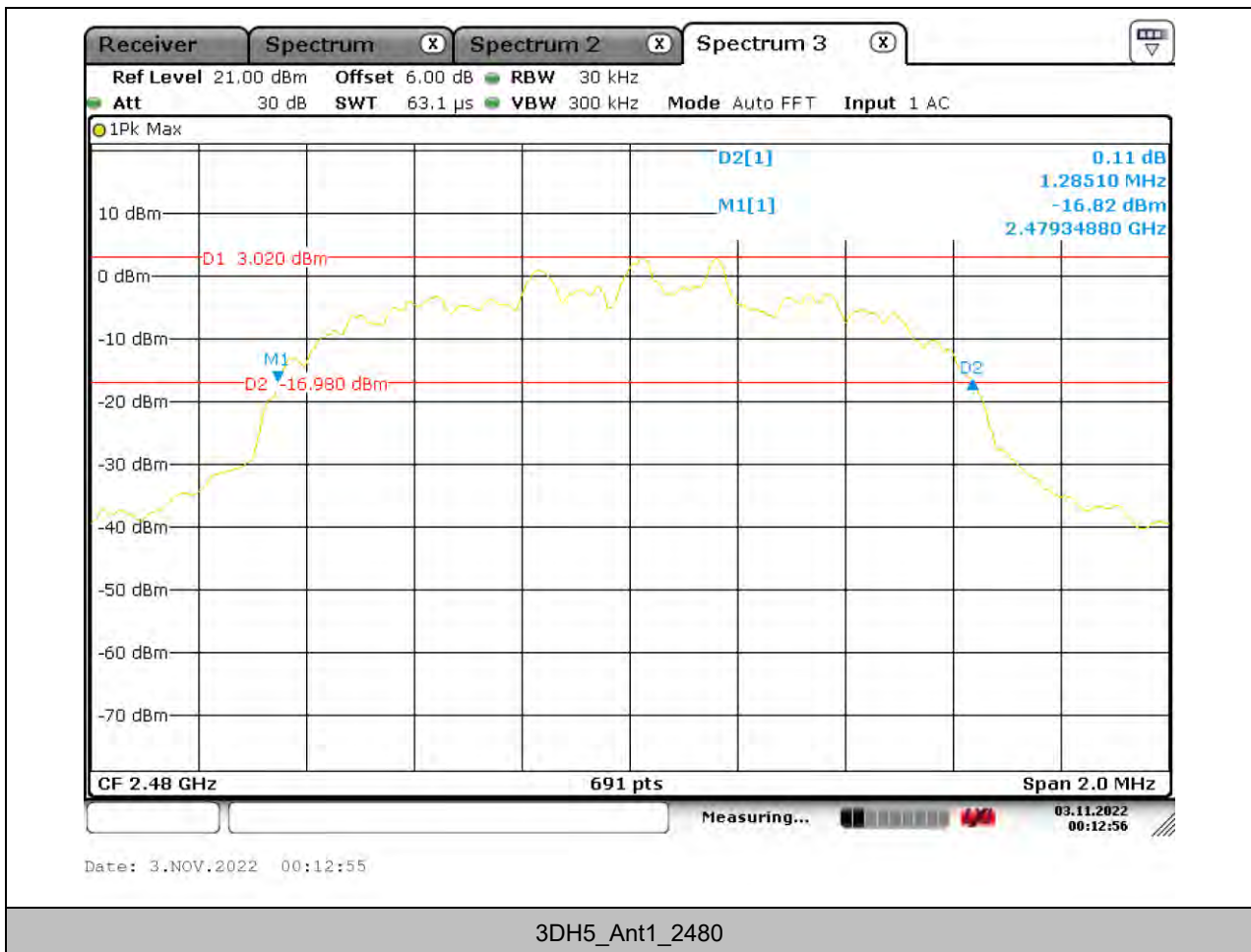
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01

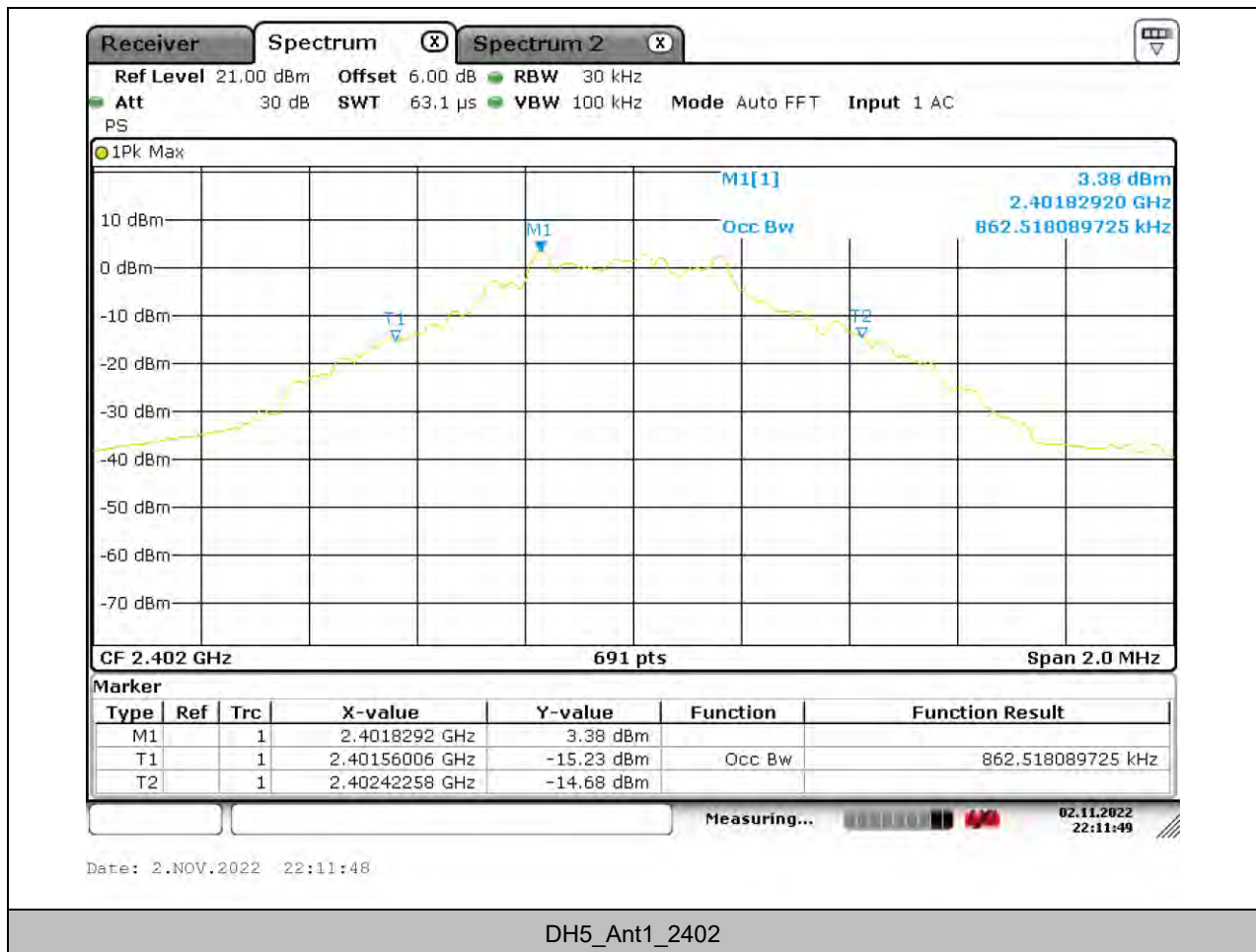


OCCUPIED CHANNEL BANDWIDTH

TEST RESULT

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
DH5	Ant1	2402	0.8625	2401.565	2402.425	---	PASS
		2441	0.8567	2440.558	2441.433	---	PASS
		2480	0.8567	2479.563	2480.424	---	PASS
2DH5	Ant1	2402	1.1808	2401.404	2402.591	---	PASS
		2441	1.1837	2440.402	2441.595	---	PASS
		2480	1.1432	2479.401	2480.593	---	PASS
3DH5	Ant1	2402	1.1751	2401.388	2402.592	---	PASS
		2441	1.1780	2440.390	2441.591	---	PASS
		2480	1.1780	2479.388	2480.589	---	PASS

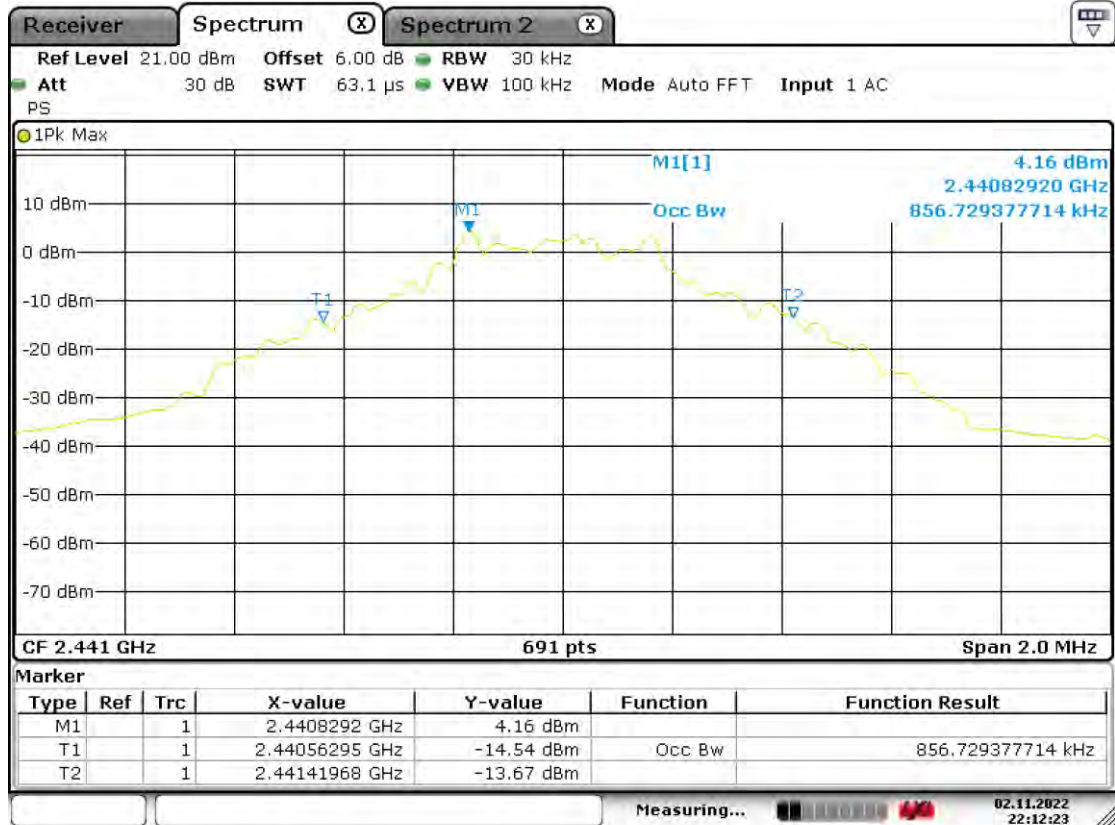
TEST GRAPHS





BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



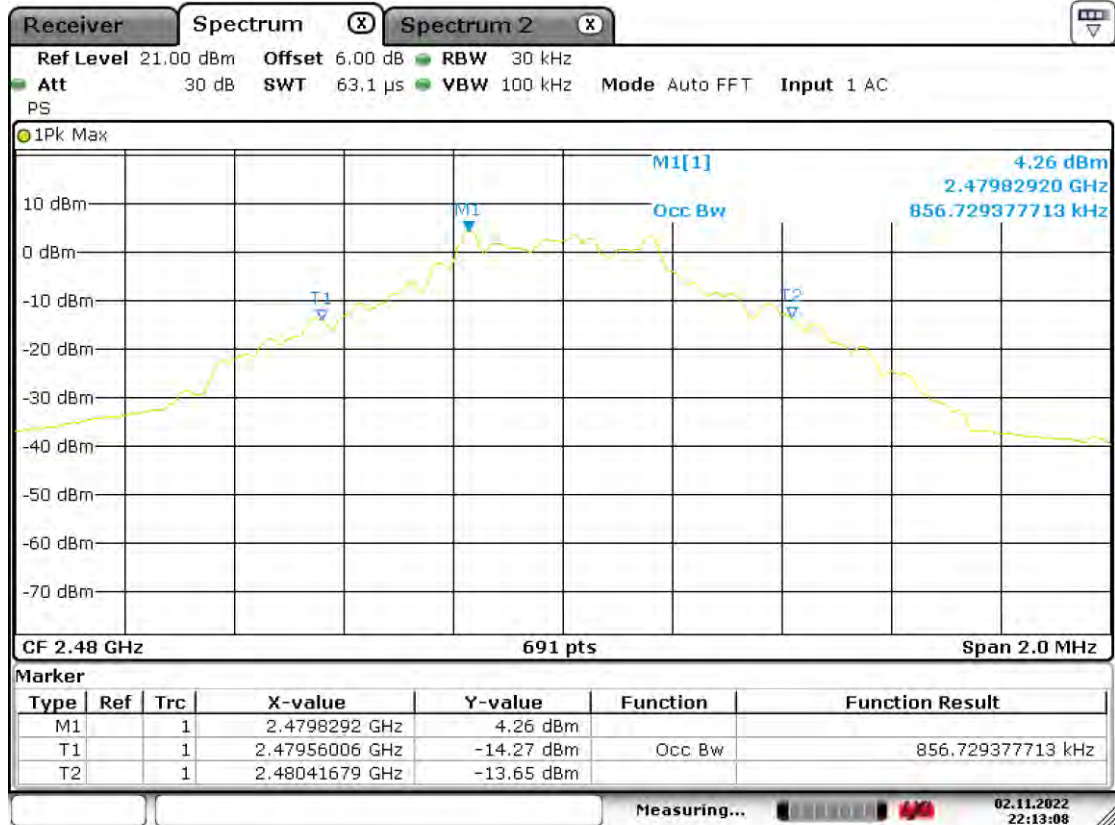
Date: 2.NOV.2022 22:12:23

DH5_Ant1_2441



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



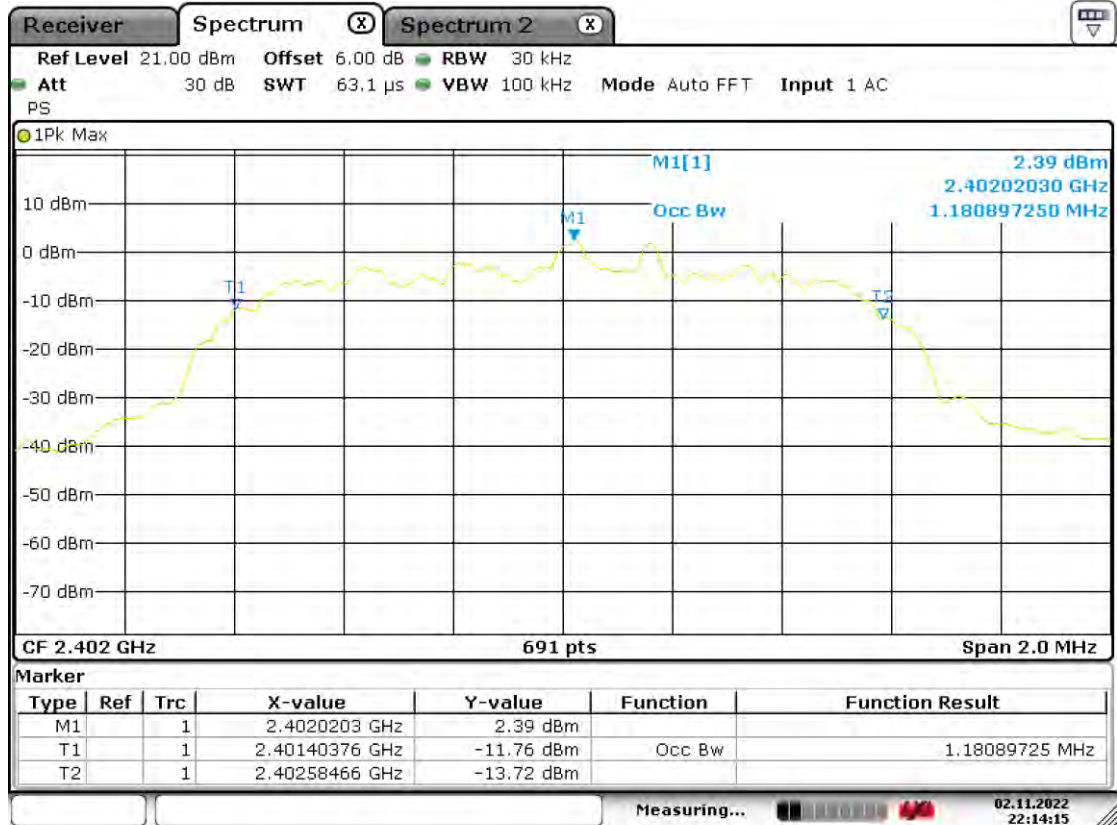
Date: 2.NOV.2022 22:13:07

DH5_Ant1_2480



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



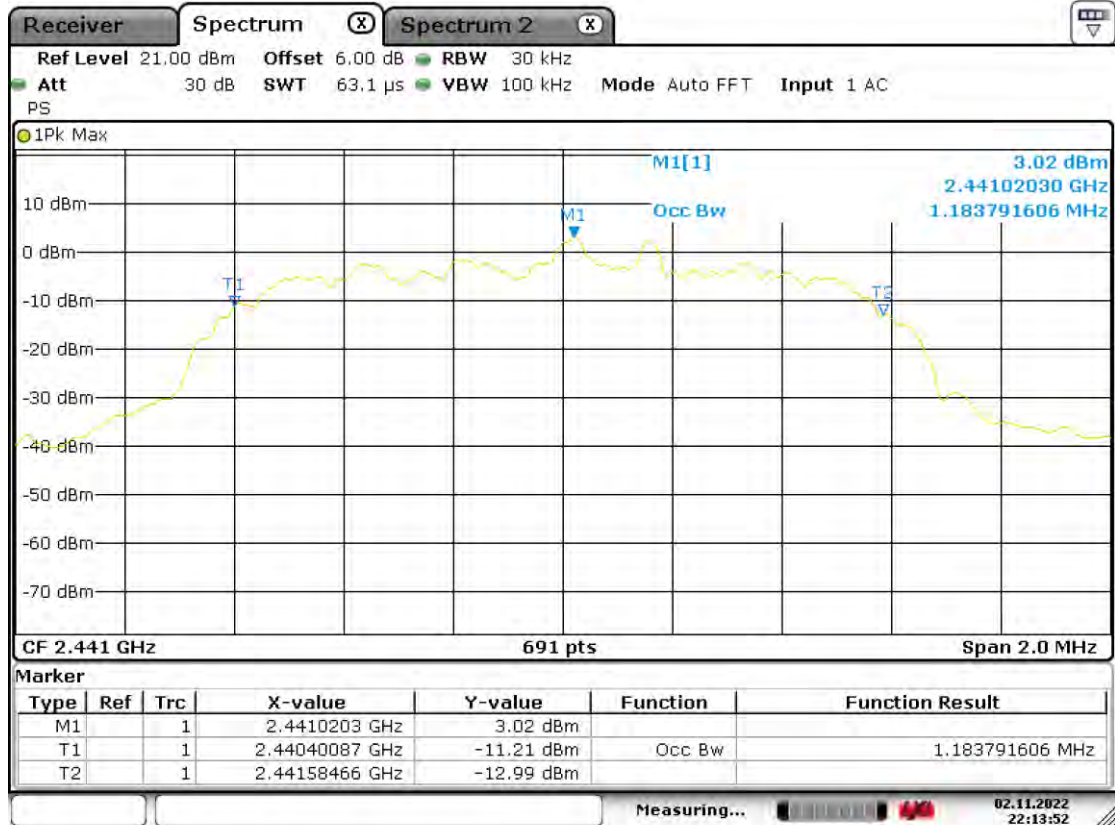
Date: 2.NOV.2022 22:14:14

2DH5_Ant1_2402



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



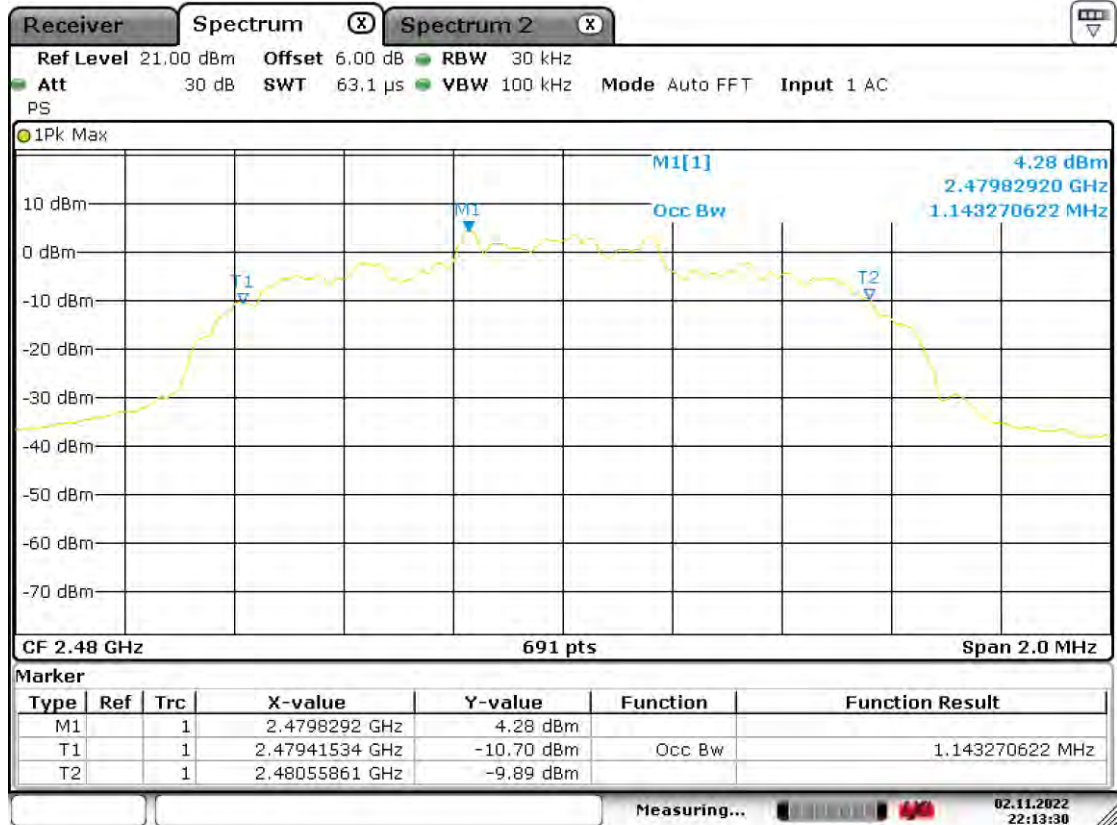
Date: 2.NOV.2022 22:13:52

2DH5_Ant1_2441



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VERITAS

Test Report No.: W7L-P22090023RF01



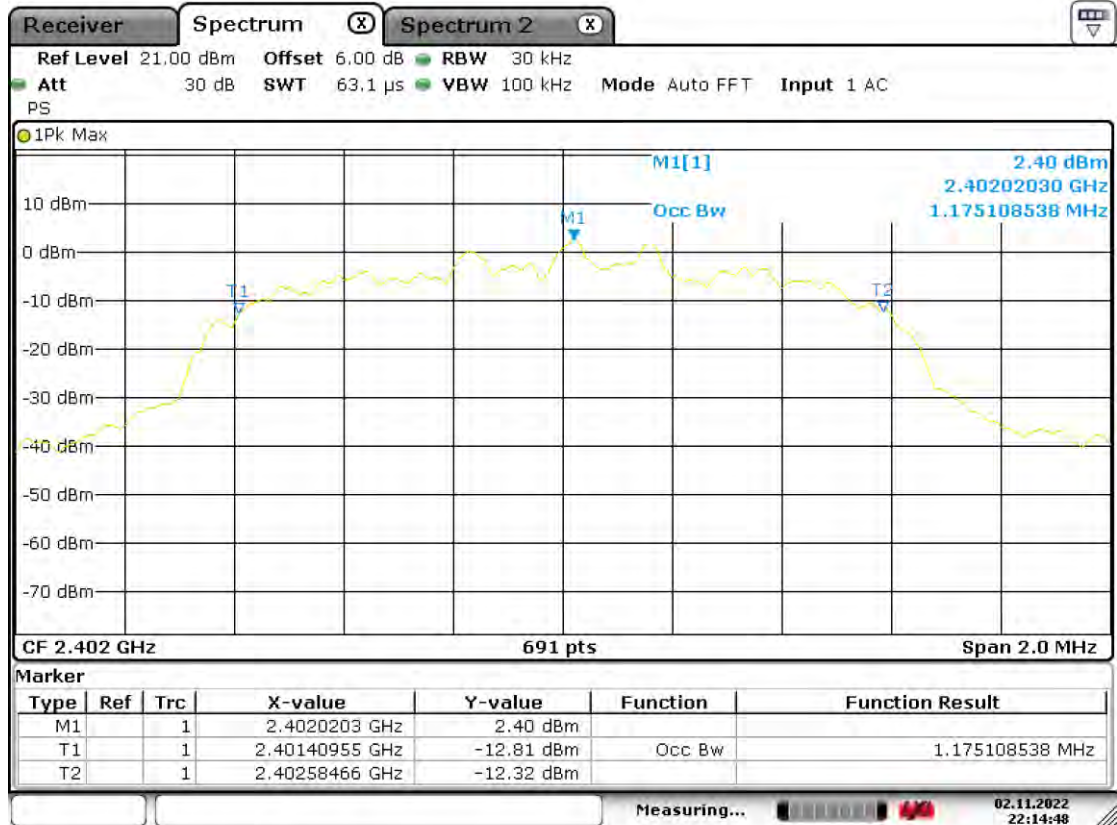
Date: 2.NOV.2022 22:13:30

2DH5_Ant1_2480



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



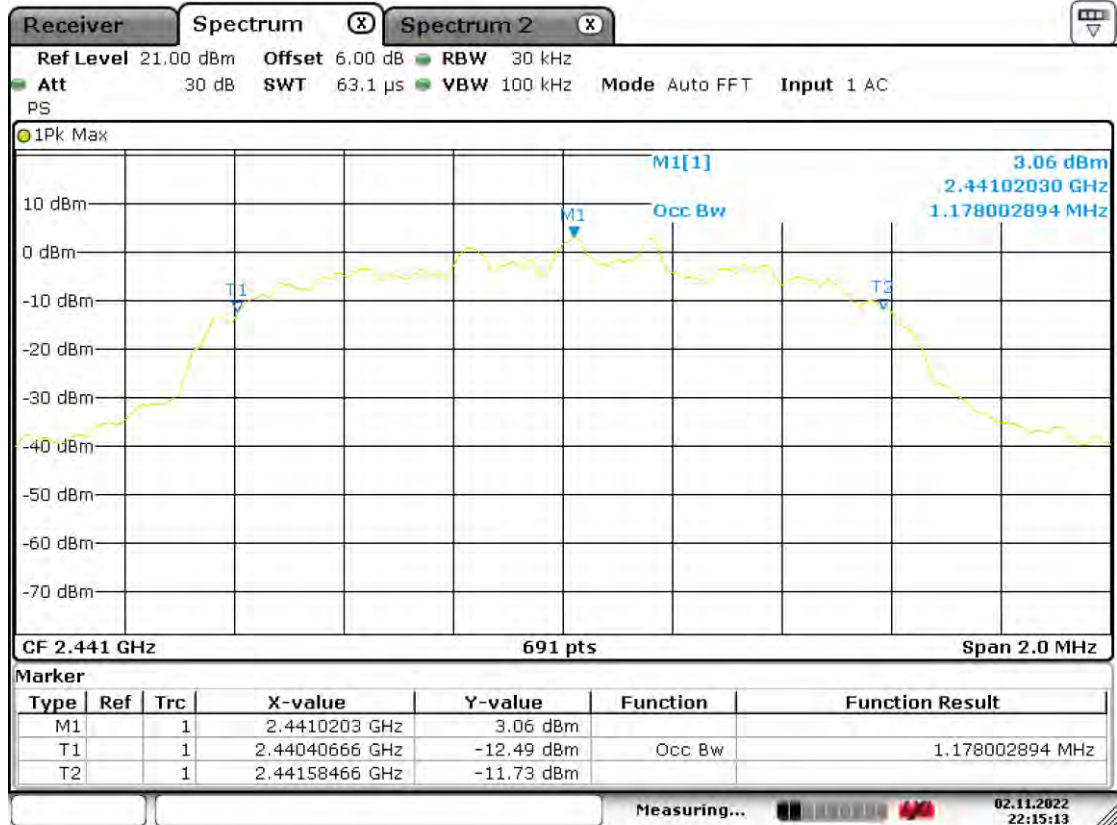
Date: 2.NOV.2022 22:14:48

3DH5_Ant1_2402



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



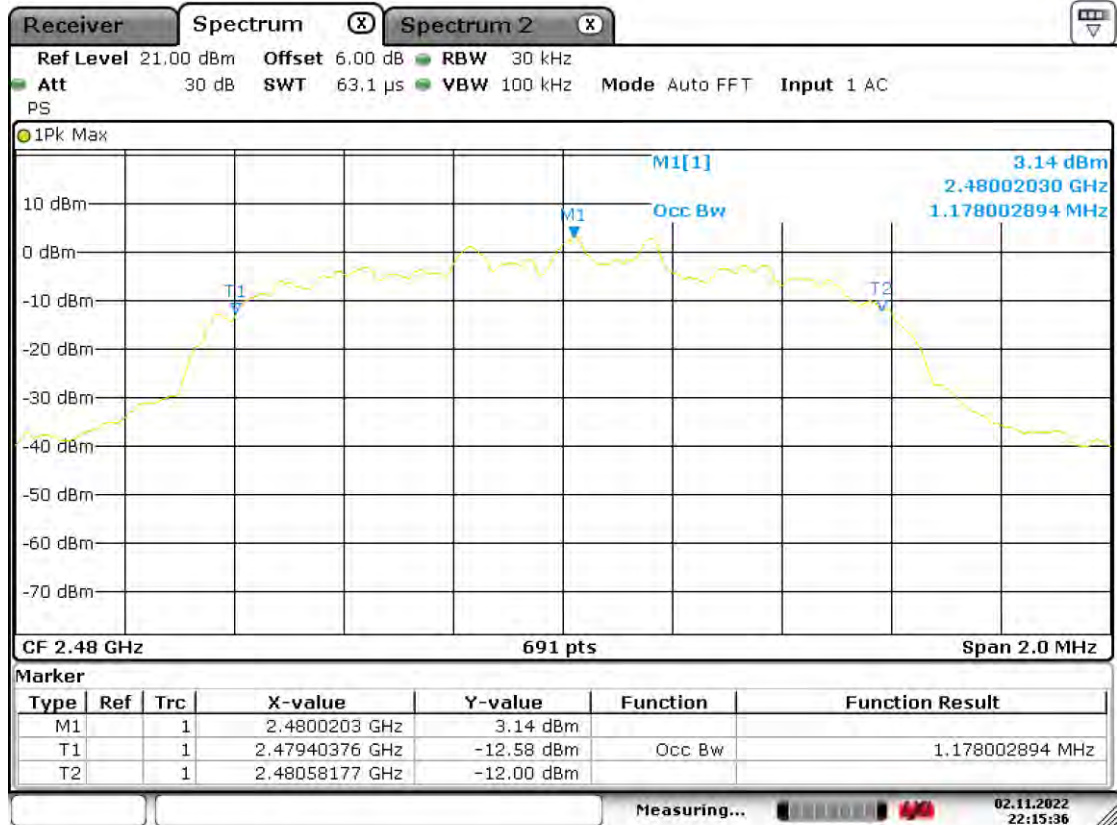
Date: 2.NOV.2022 22:15:12

3DH5_Ant1_2441



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



Date: 2.NOV.2022 22:15:35

3DH5_Ant1_2480

MAXIMUM CONDUCTED OUTPUT POWER

TEST RESULT PEAK

TestMode	Antenna	Channel	Peak Power[dBm]	Peak Power[mw]	Conducted Limit[mw]	Verdict	Power setting
DH5	Ant1	2402	5.22	3.33	≤125	PASS	4
		2441	4.83	3.04	≤125	PASS	4
		2480	4.81	3.03	≤125	PASS	4
2DH5	Ant1	2402	6.98	4.99	≤125	PASS	4
		2441	6.26	4.23	≤125	PASS	4
		2480	6.14	4.11	≤125	PASS	4
3DH5	Ant1	2402	7.15	5.19	≤125	PASS	4
		2441	6.56	4.53	≤125	PASS	4
		2480	6.40	4.37	≤125	PASS	4

TEST RESULT AVERAGE

TestMode	Antenna	Channel	Average Power	Conducted Limit[dBm]	Verdict	Power setting
DH5	Ant1	2402	4.87	/	PASS	4
		2441	4.30	/	PASS	4
		2480	4.23	/	PASS	4
2DH5	Ant1	2402	3.66	/	PASS	4
		2441	2.92	/	PASS	4
		2480	2.91	/	PASS	4
3DH5	Ant1	2402	3.72	/	PASS	4
		2441	2.96	/	PASS	4
		2480	2.95	/	PASS	4



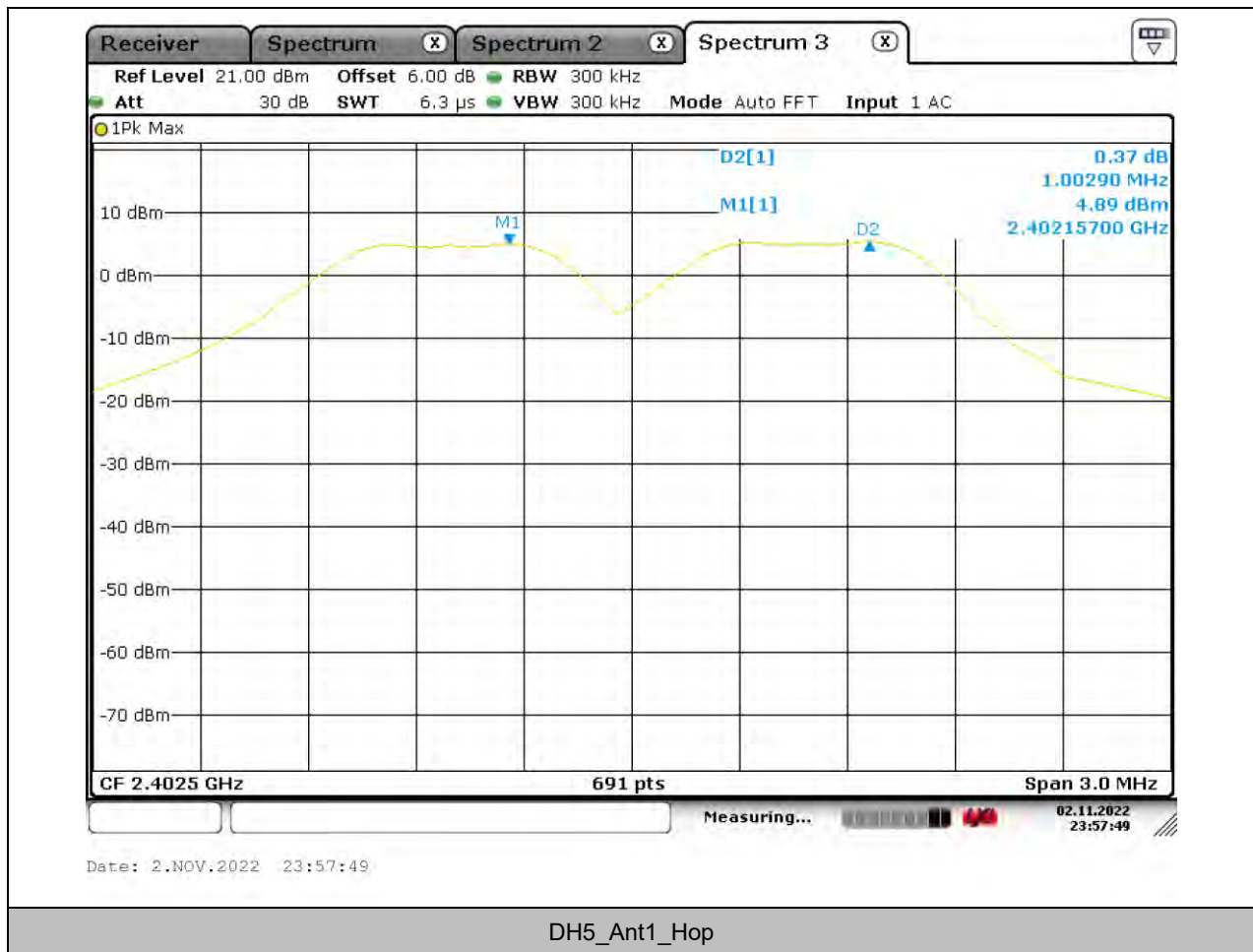
Test Report No.: W7L-P22090023RF01

CARRIER FREQUENCY SEPARATION

TEST RESULT

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
DH5	Ant1	Hop	1.0029	≥ 0.6252	PASS
2DH5	Ant1	Hop	1.0029	≥ 0.8548	PASS
3DH5	Ant1	Hop	1.0029	≥ 0.8567	PASS

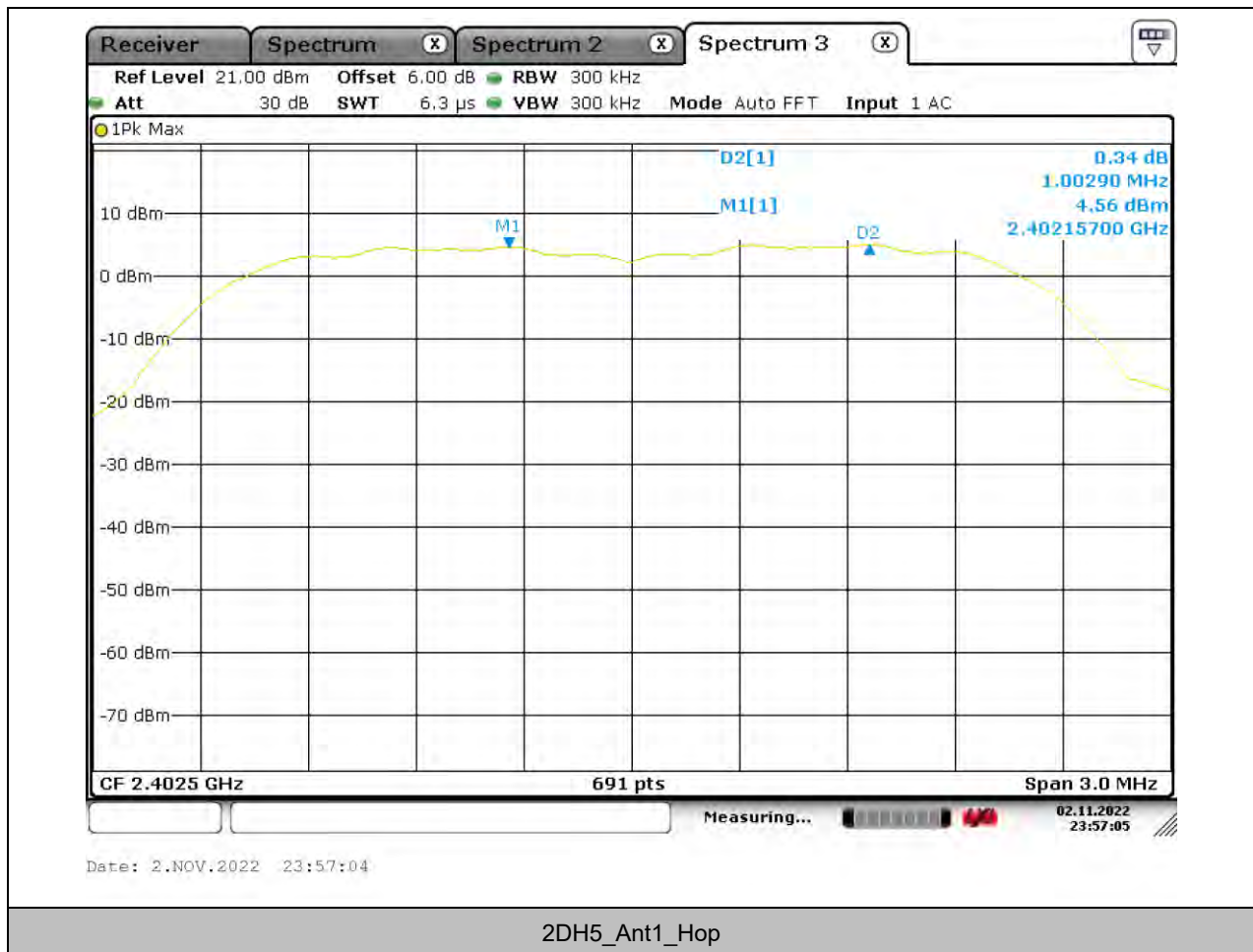
TEST GRAPHS





BUREAU
VERITAS

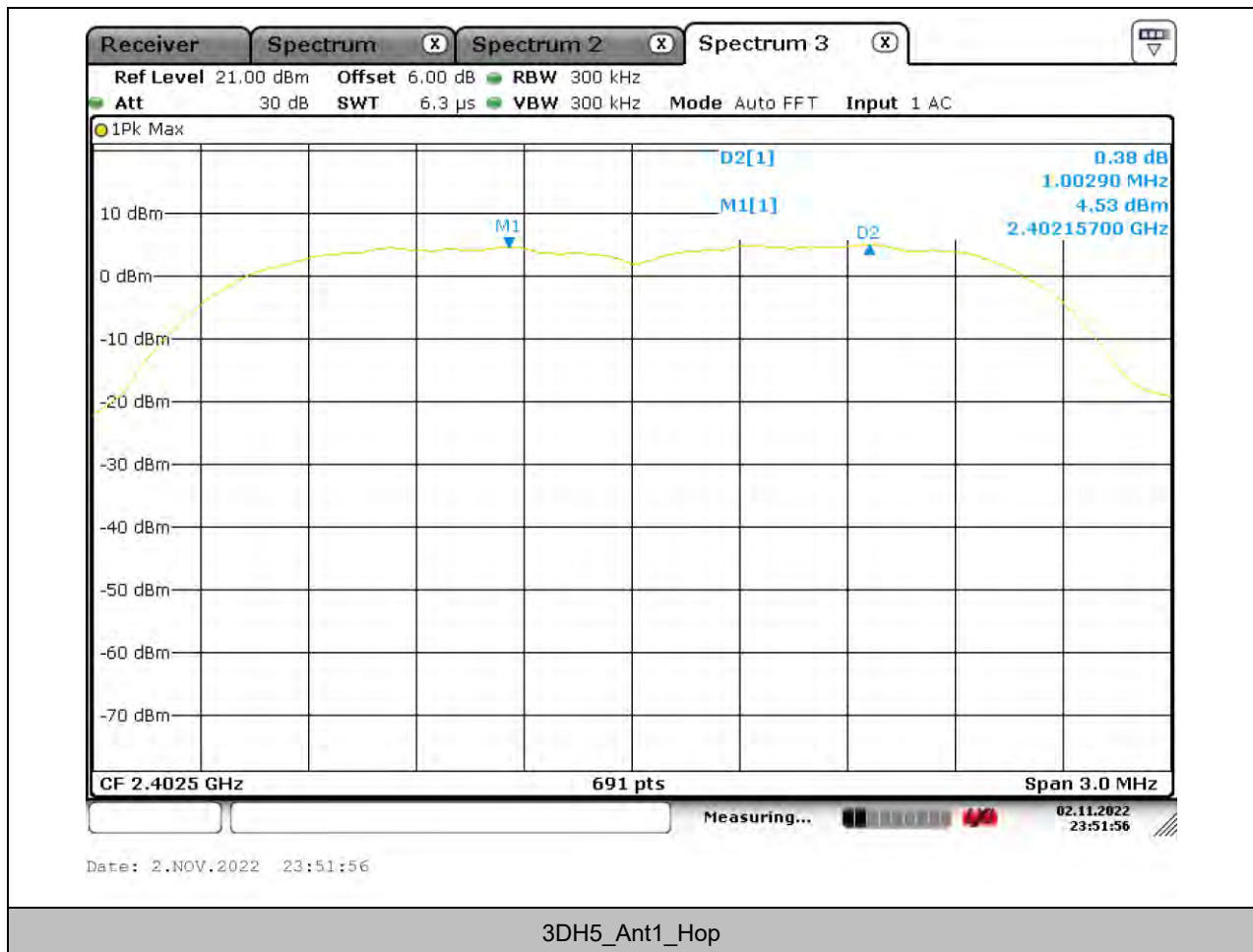
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01

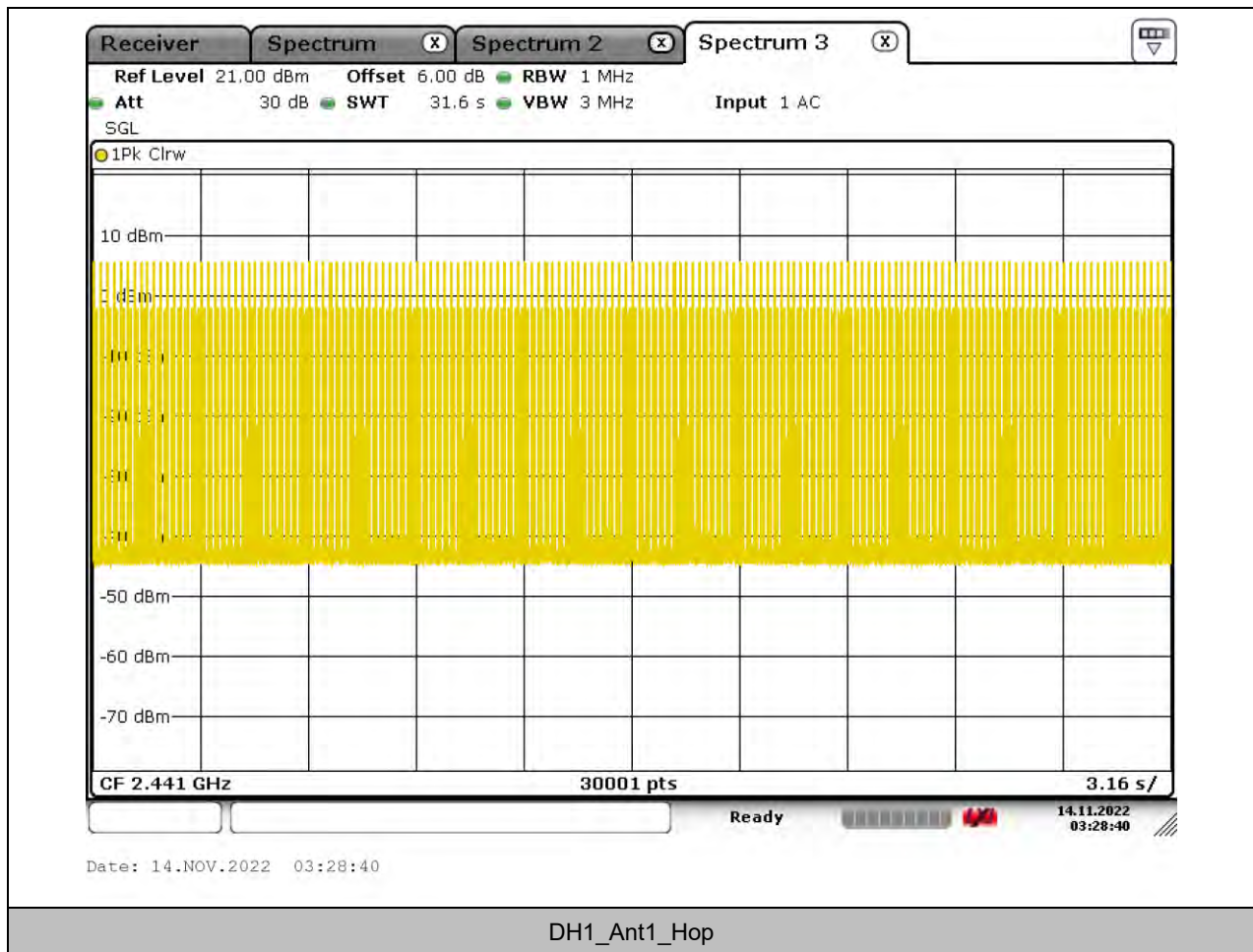


TIME OF OCCUPANCY

TEST RESULT

TestMode	Antenna	Channel	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.39	326	0.127	≤0.4	PASS
DH3	Ant1	Hop	1.646	89	0.146	≤0.4	PASS
DH5	Ant1	Hop	2.89	77	0.223	≤0.4	PASS
2DH1	Ant1	Hop	0.383	285	0.109	≤0.4	PASS
2DH3	Ant1	Hop	1.634	107	0.175	≤0.4	PASS
2DH5	Ant1	Hop	2.88	75	0.216	≤0.4	PASS
3DH1	Ant1	Hop	0.38	288	0.109	≤0.4	PASS
3DH3	Ant1	Hop	1.63	94	0.153	≤0.4	PASS
3DH5	Ant1	Hop	2.88	73	0.210	≤0.4	PASS

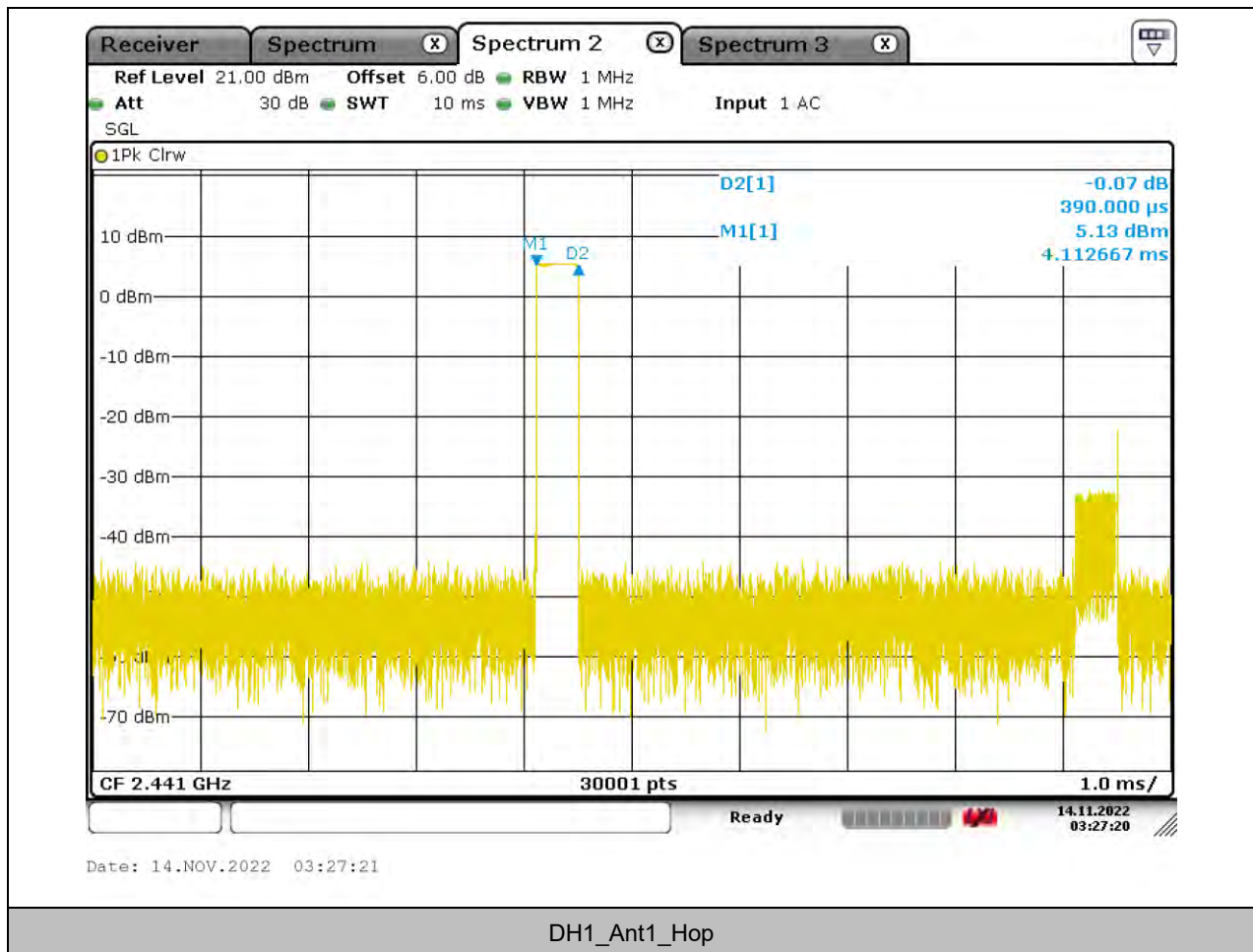
TEST GRAPHS





BUREAU
VERITAS

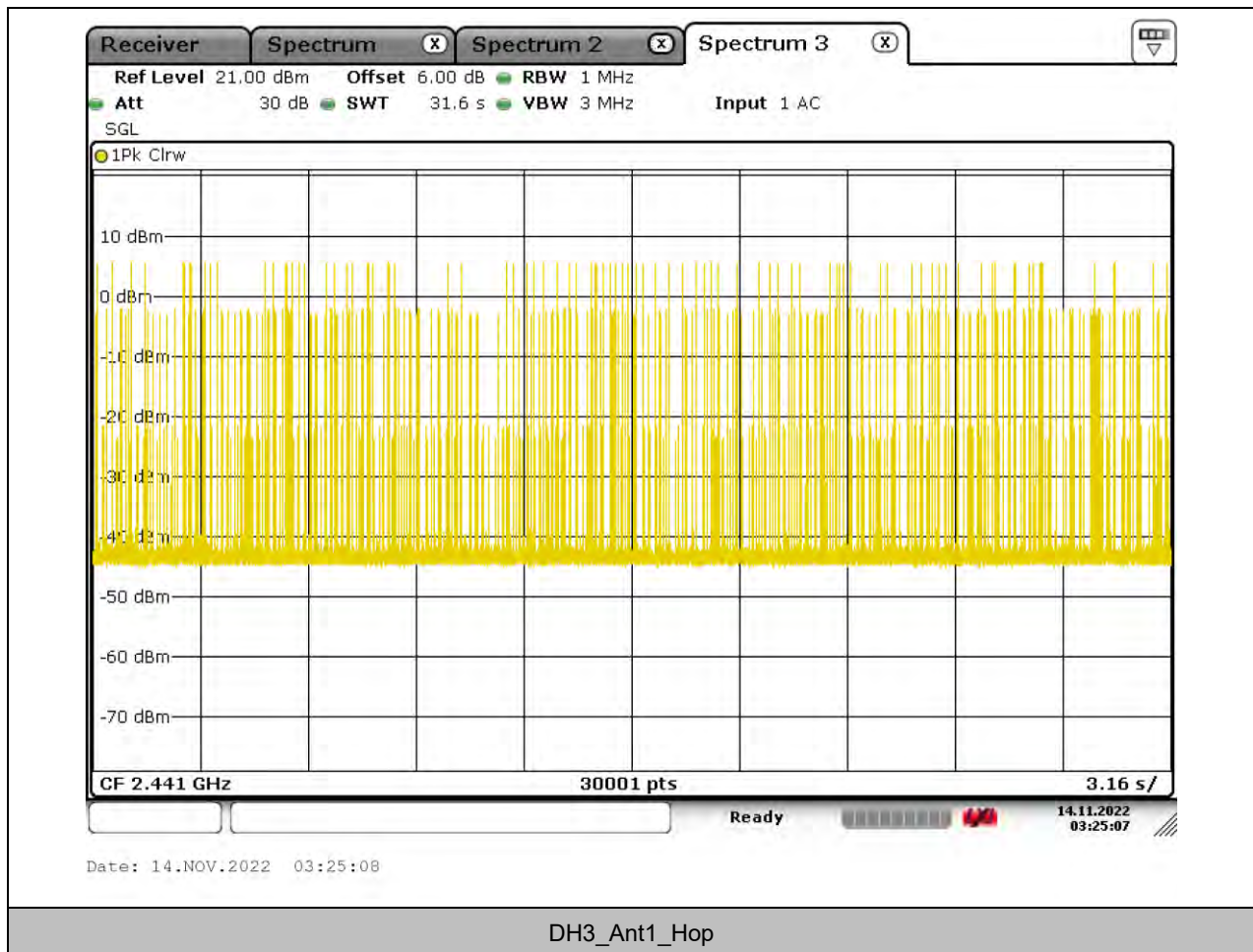
Test Report No.: W7L-P22090023RF01





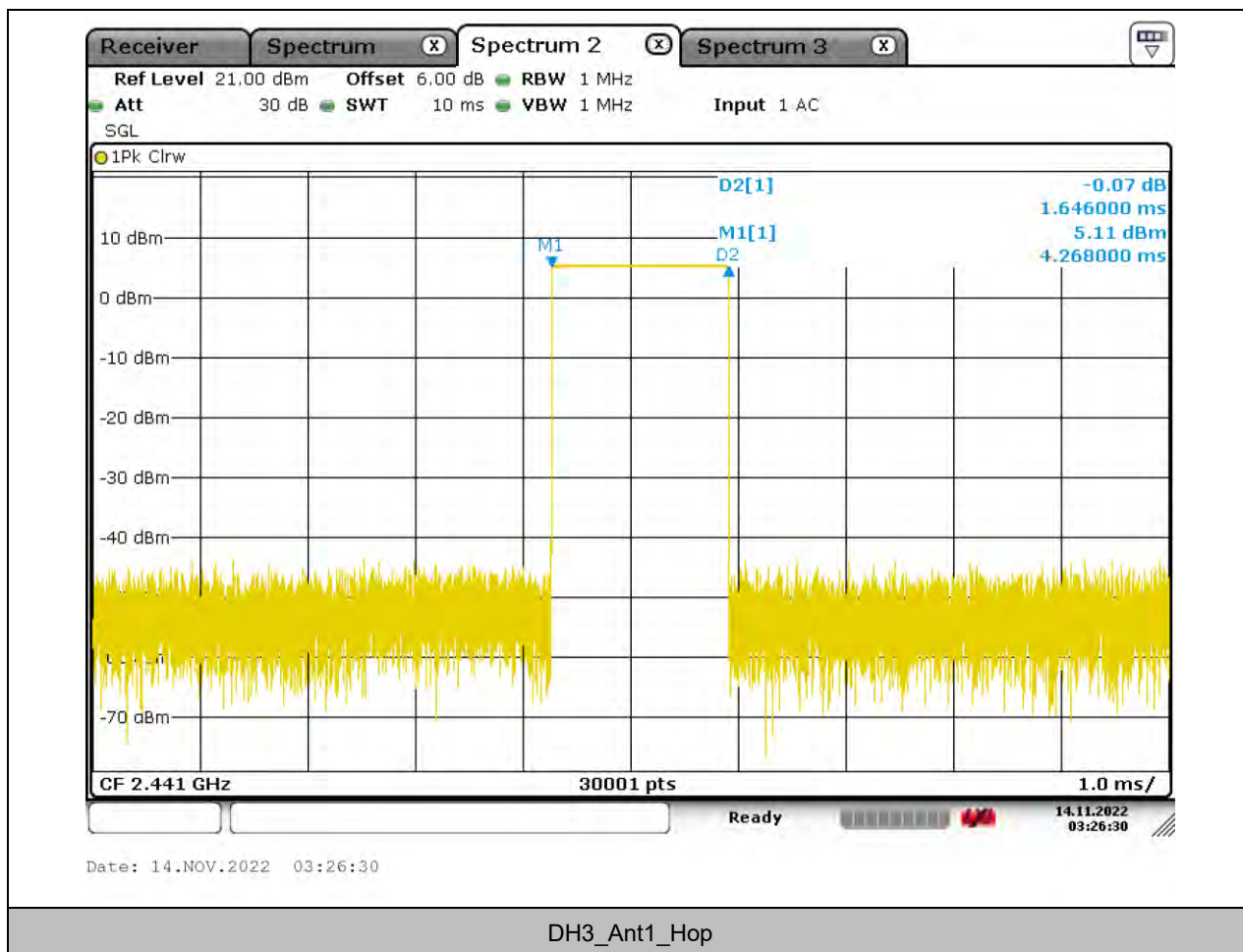
BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01





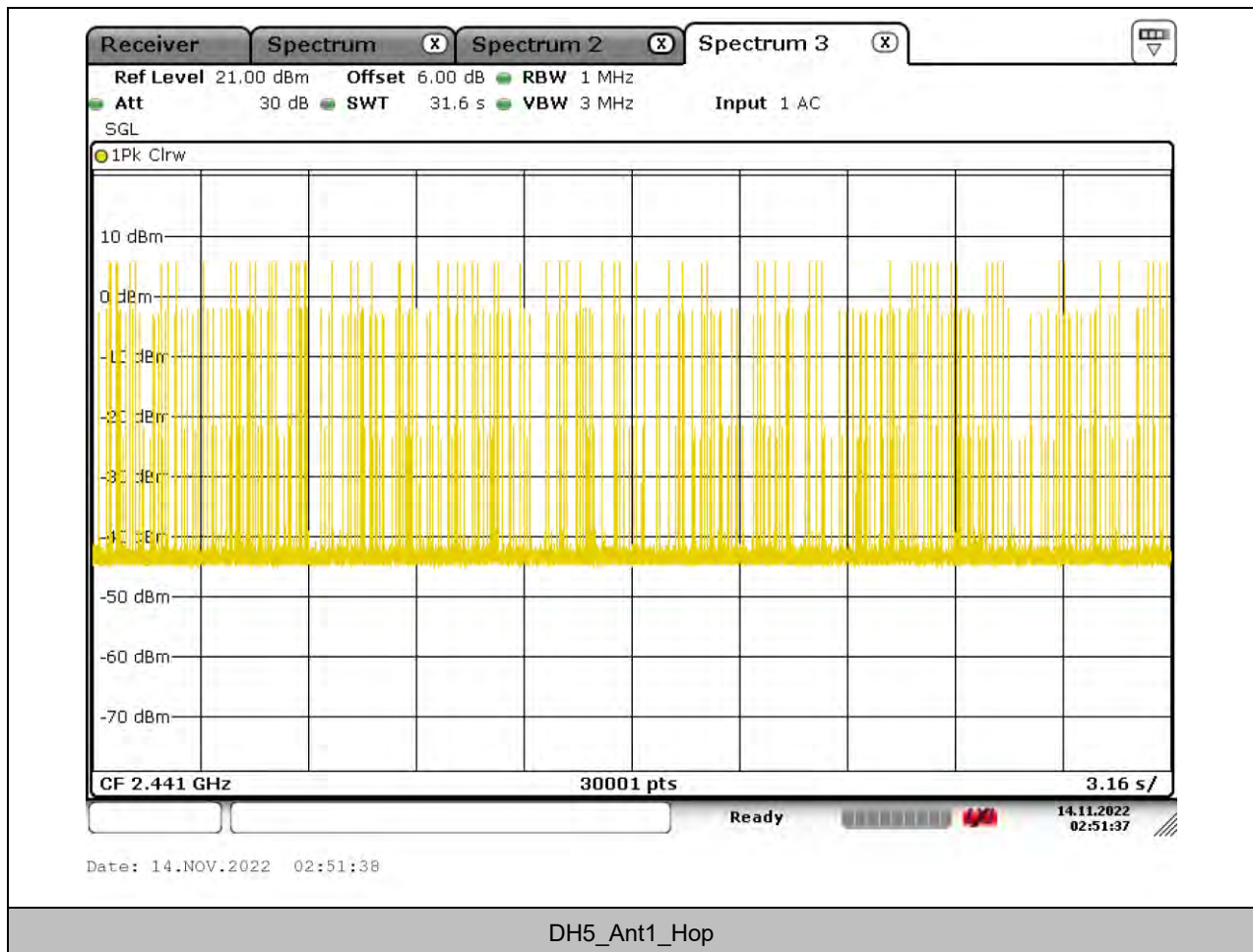
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

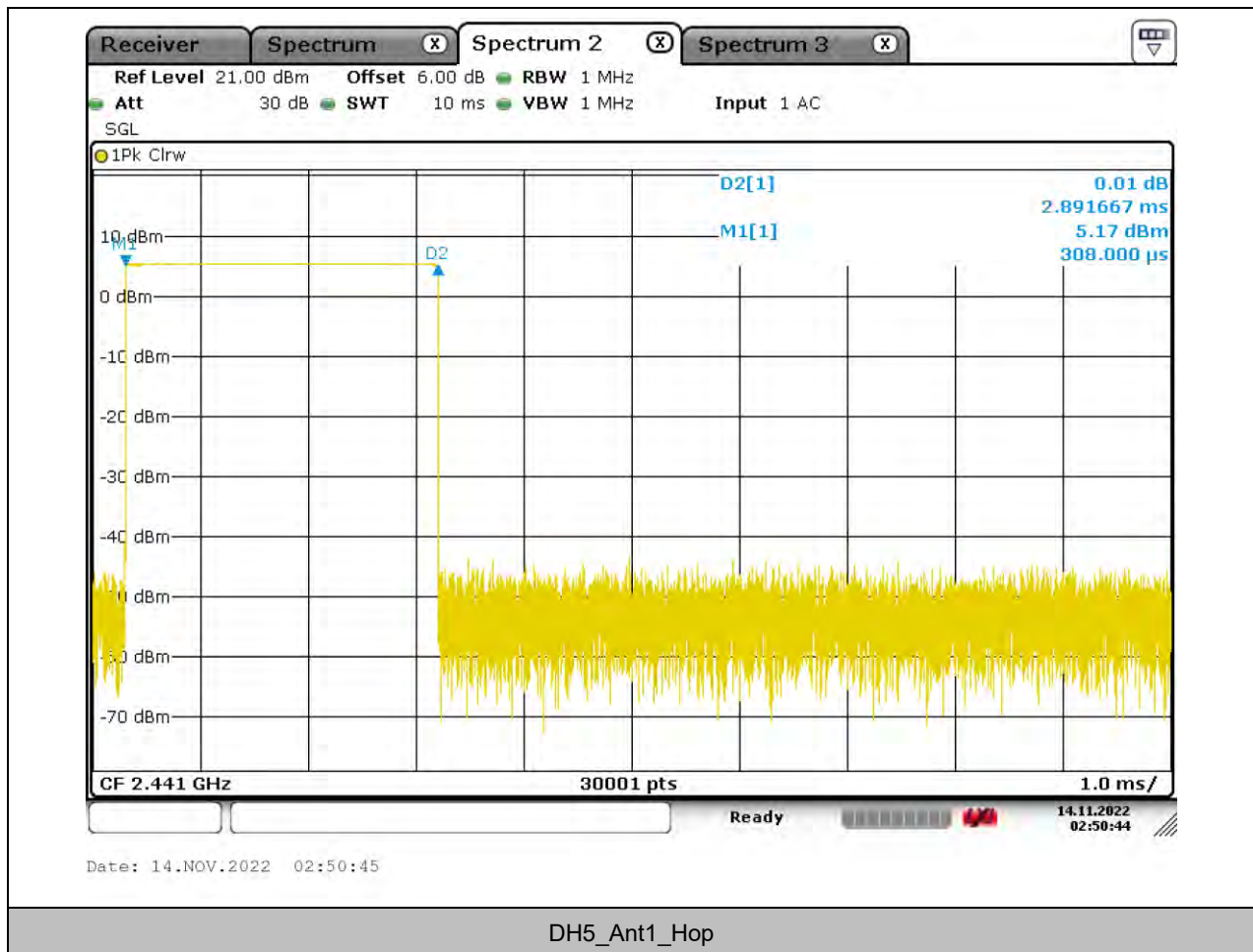
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

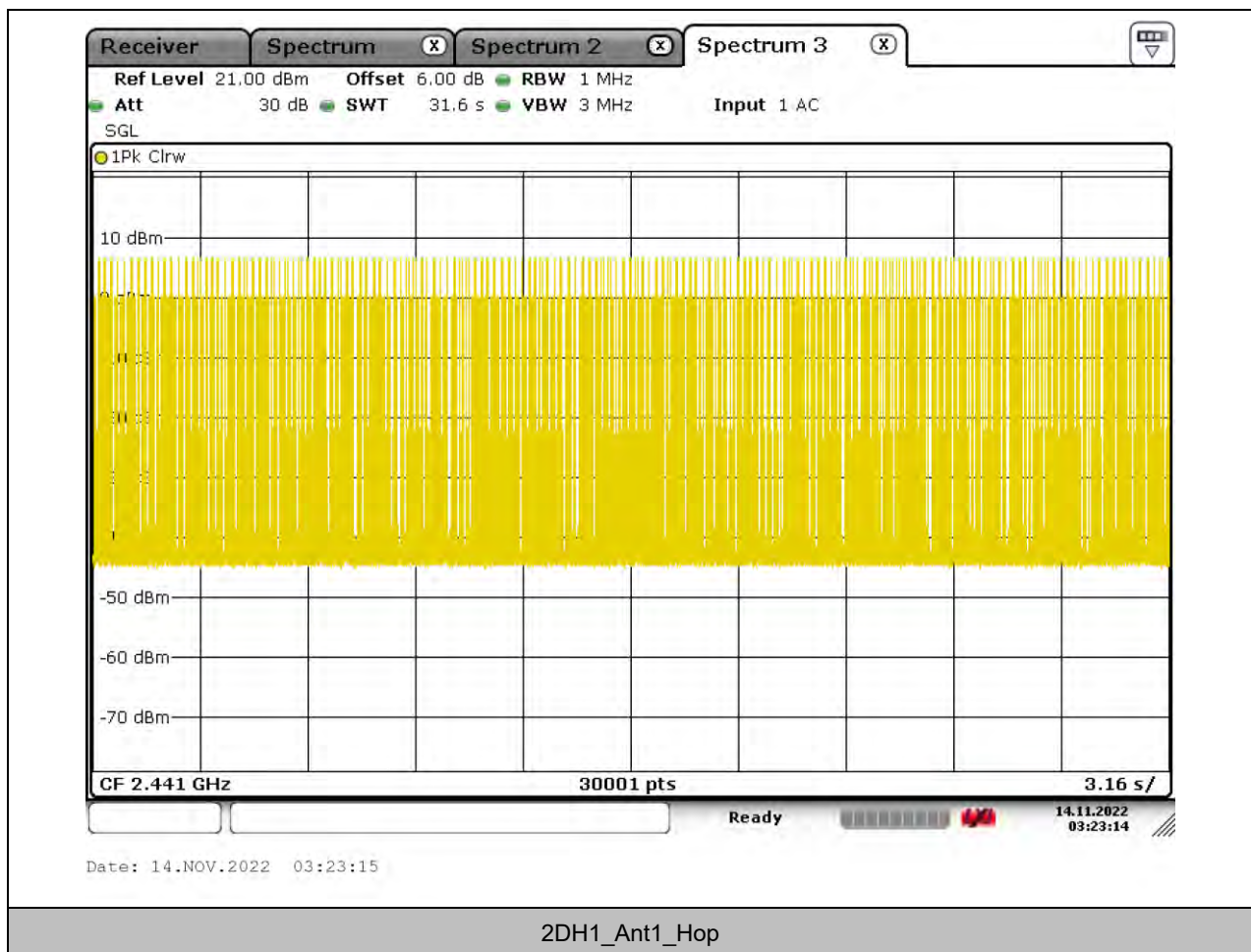
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

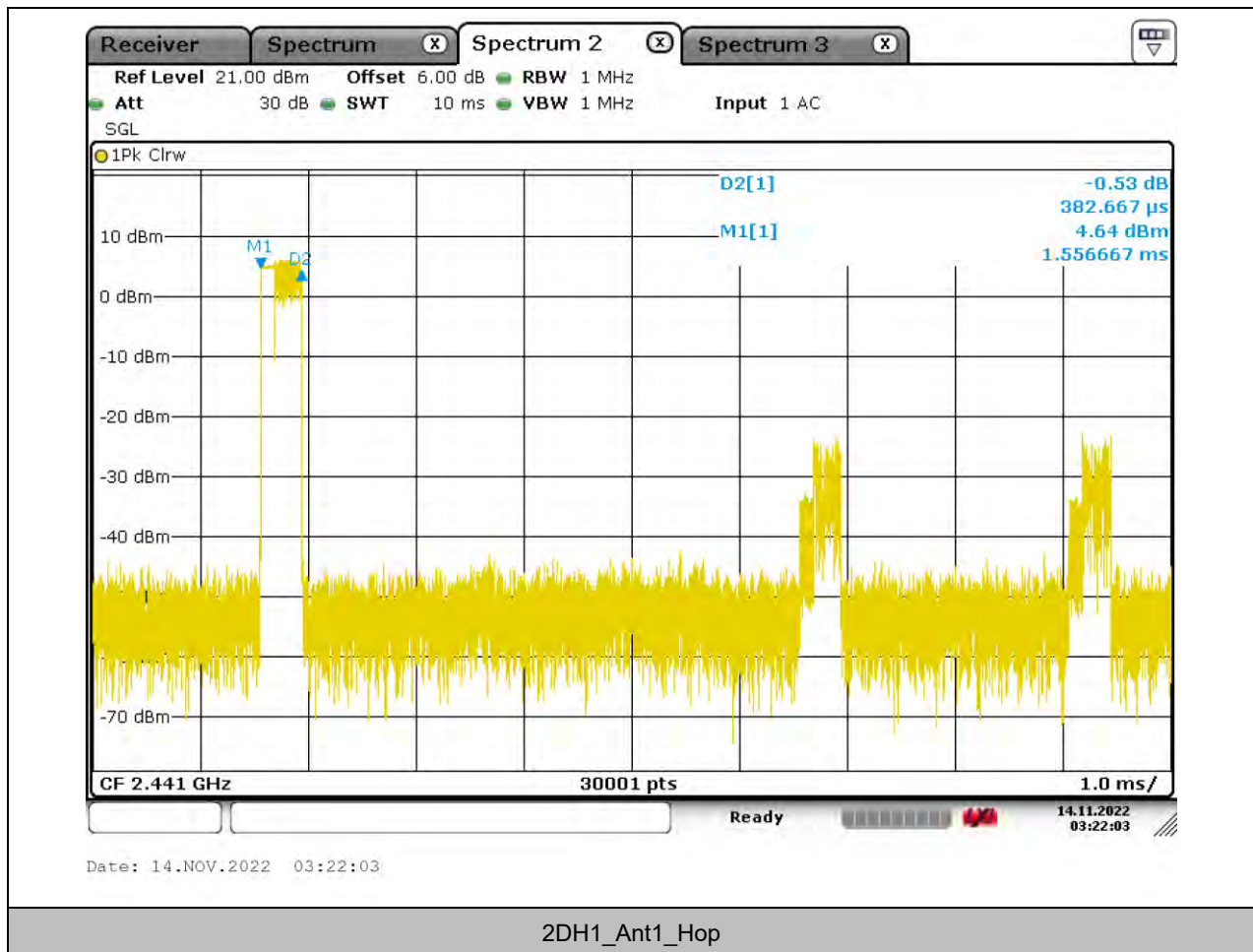
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

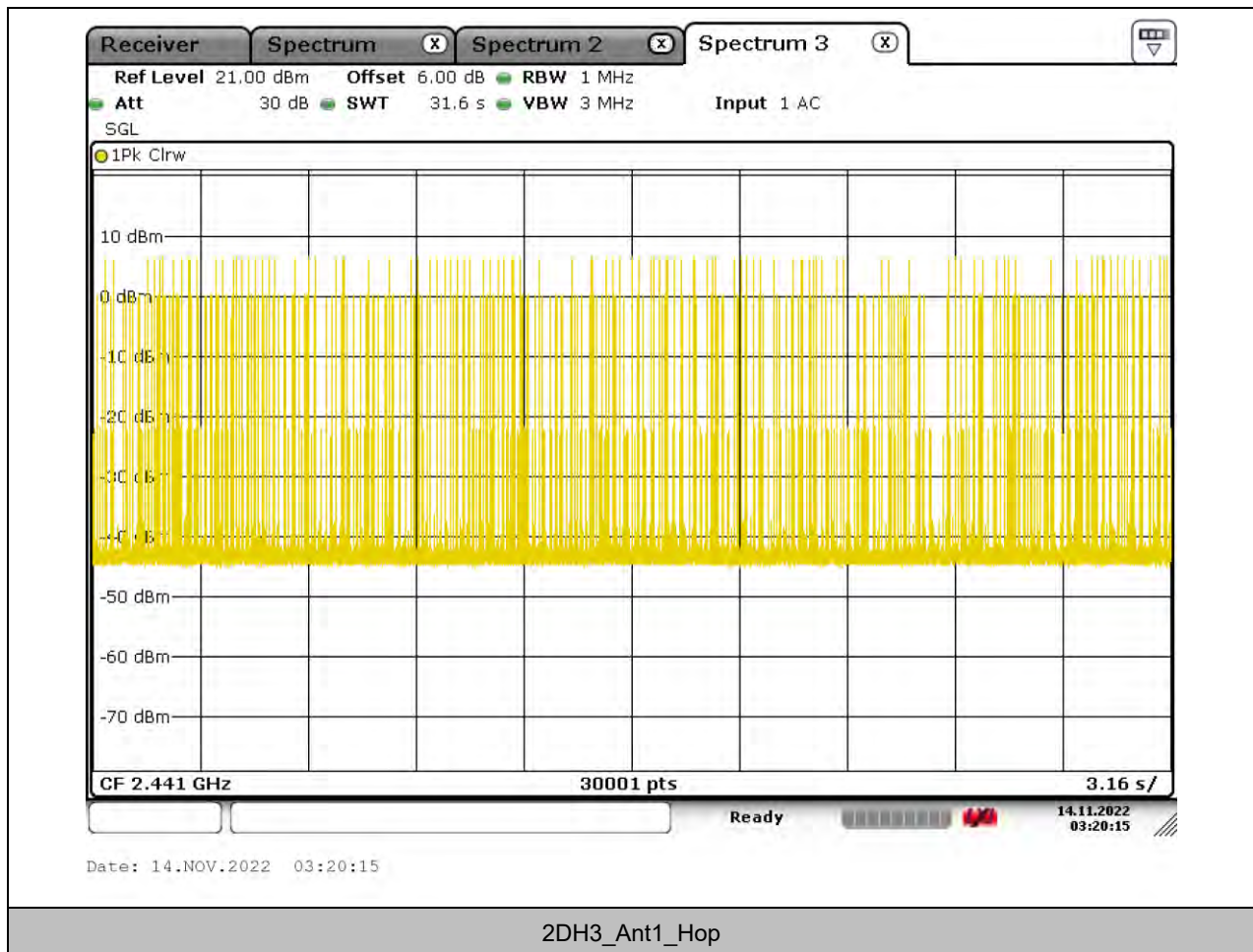
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

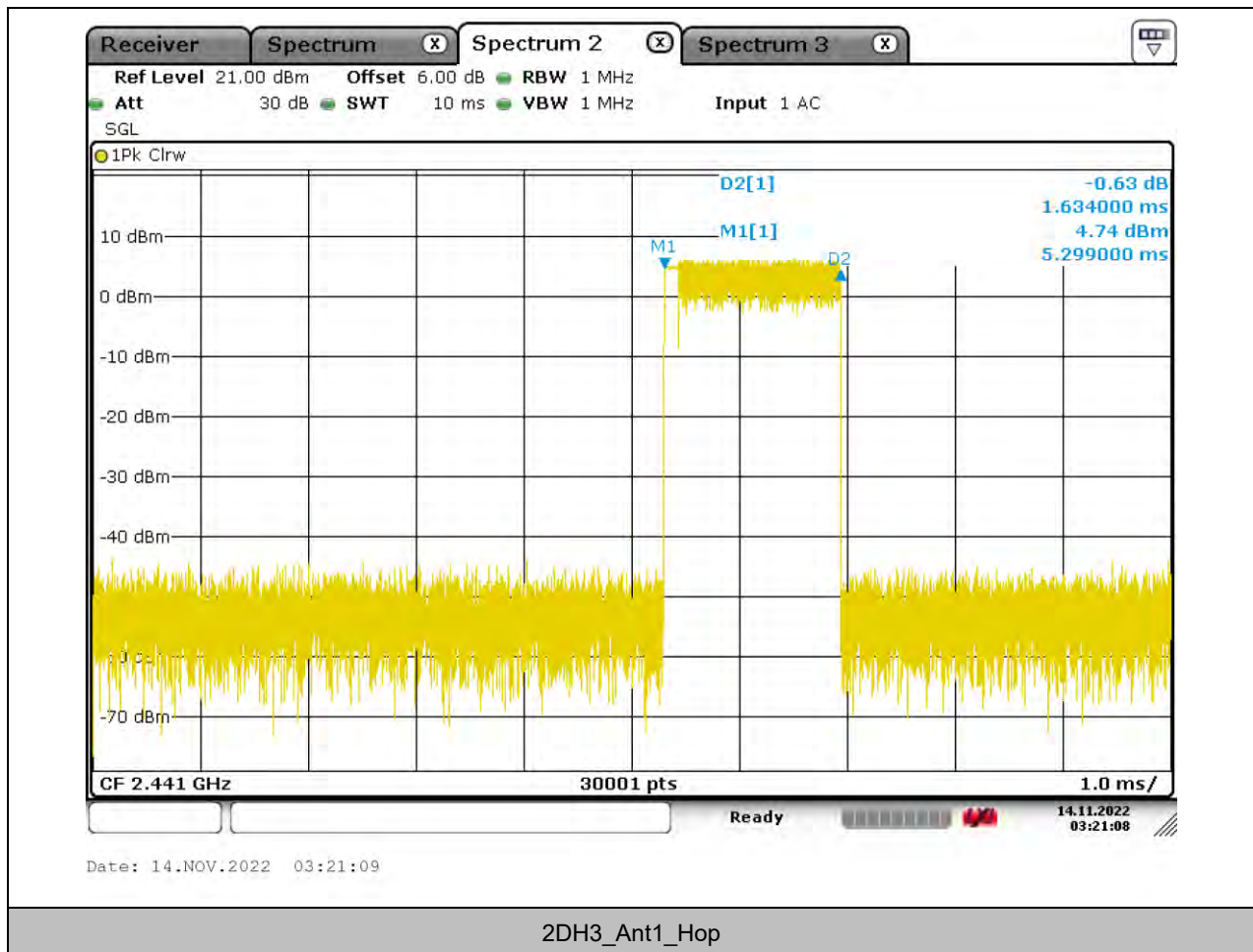
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

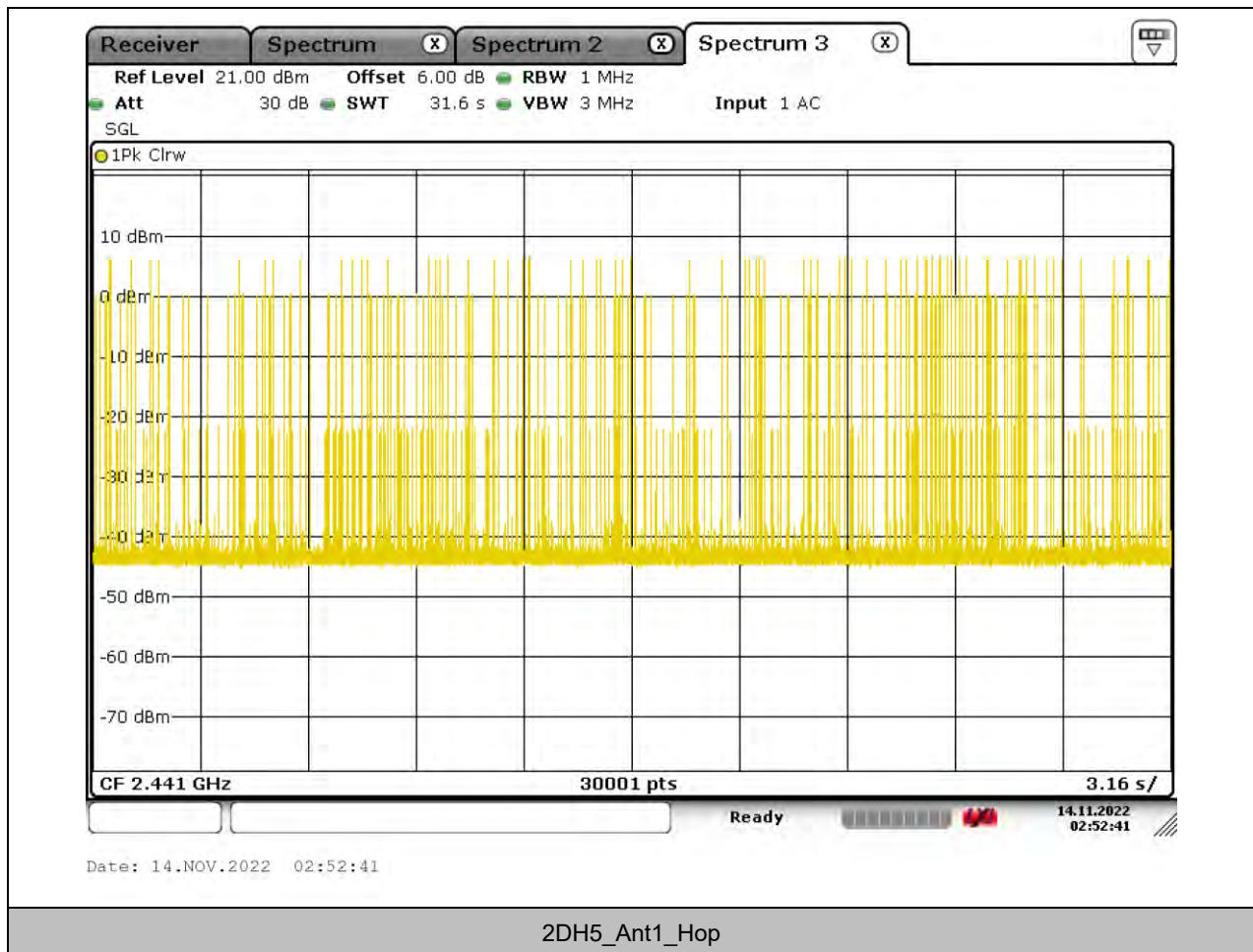
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

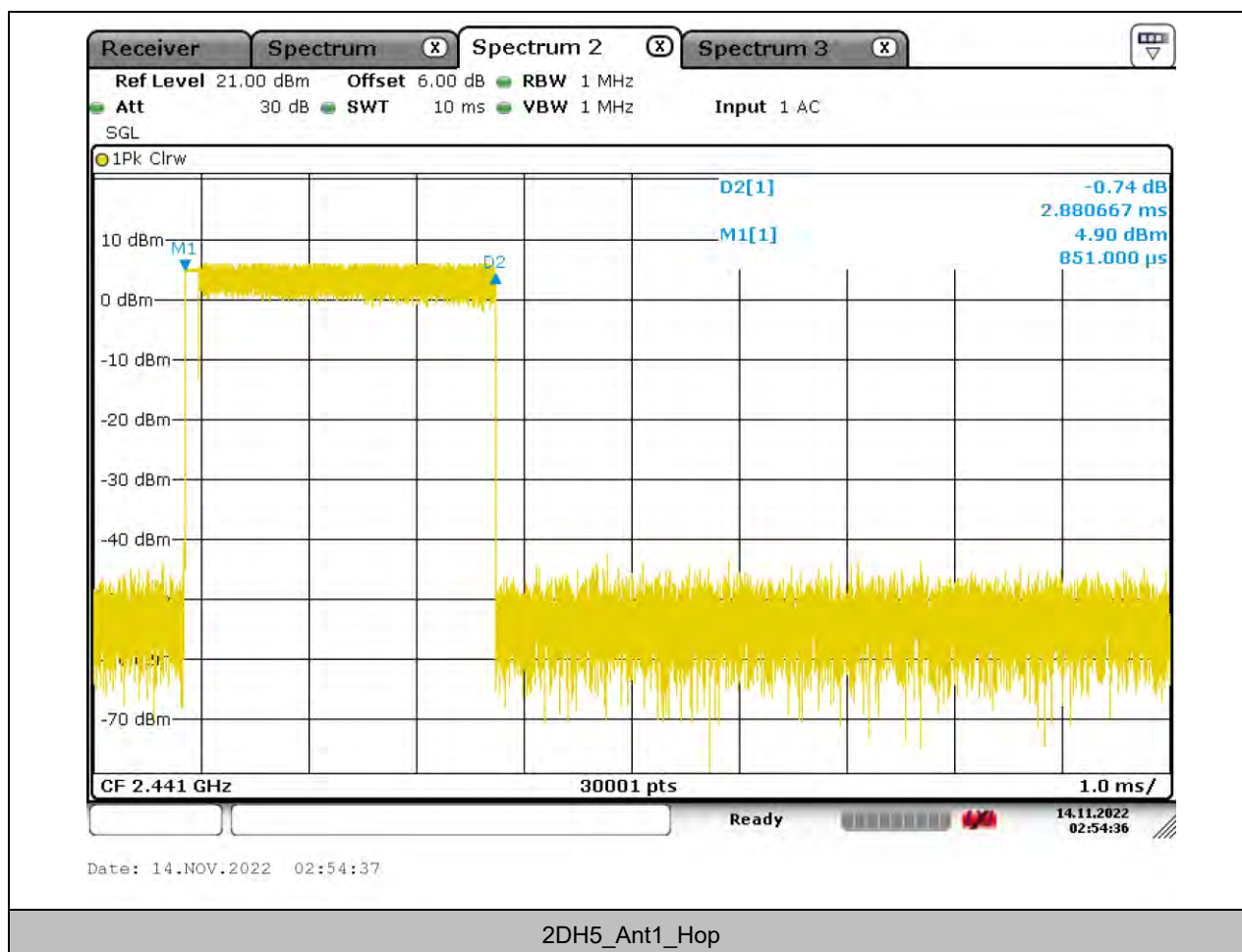
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

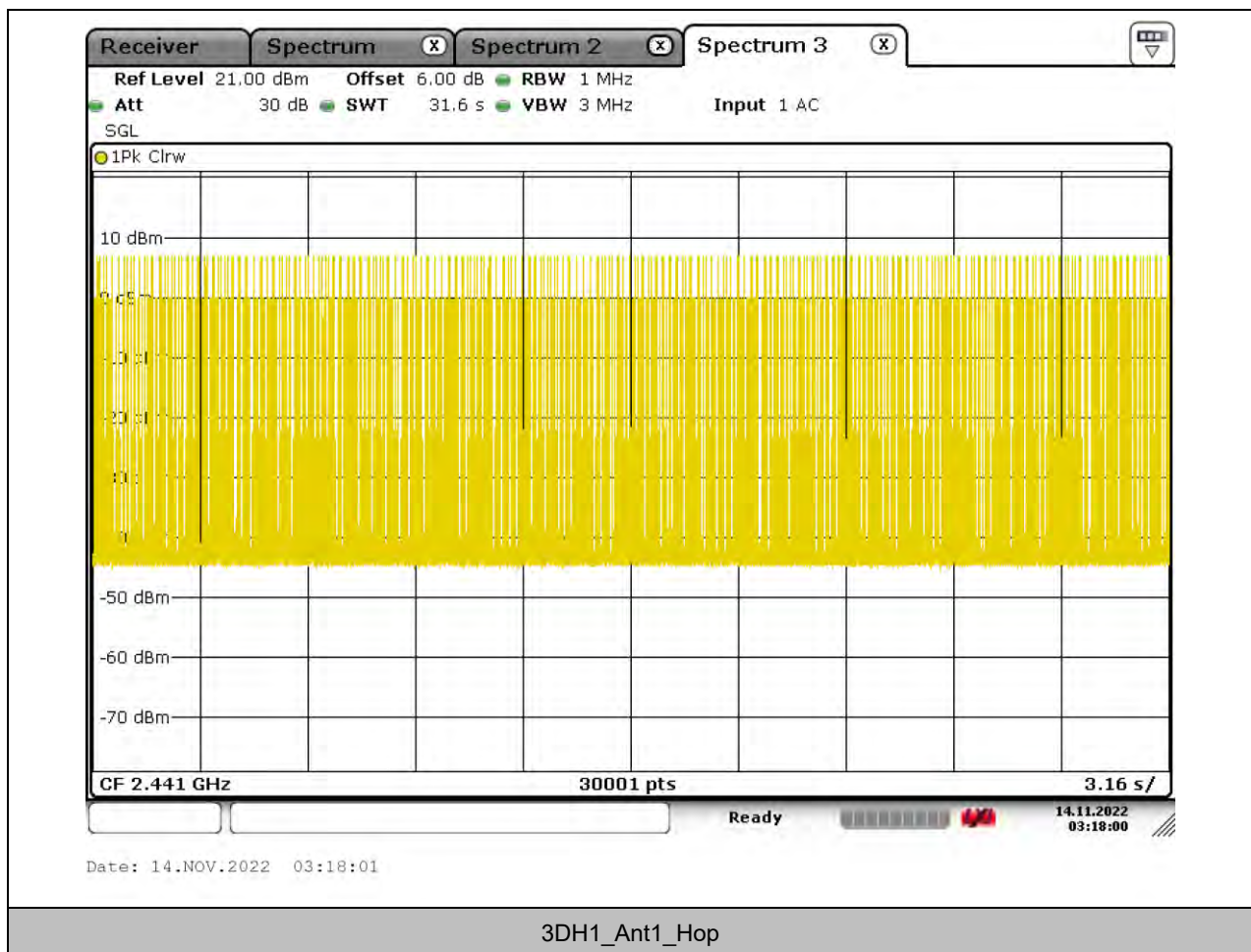
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

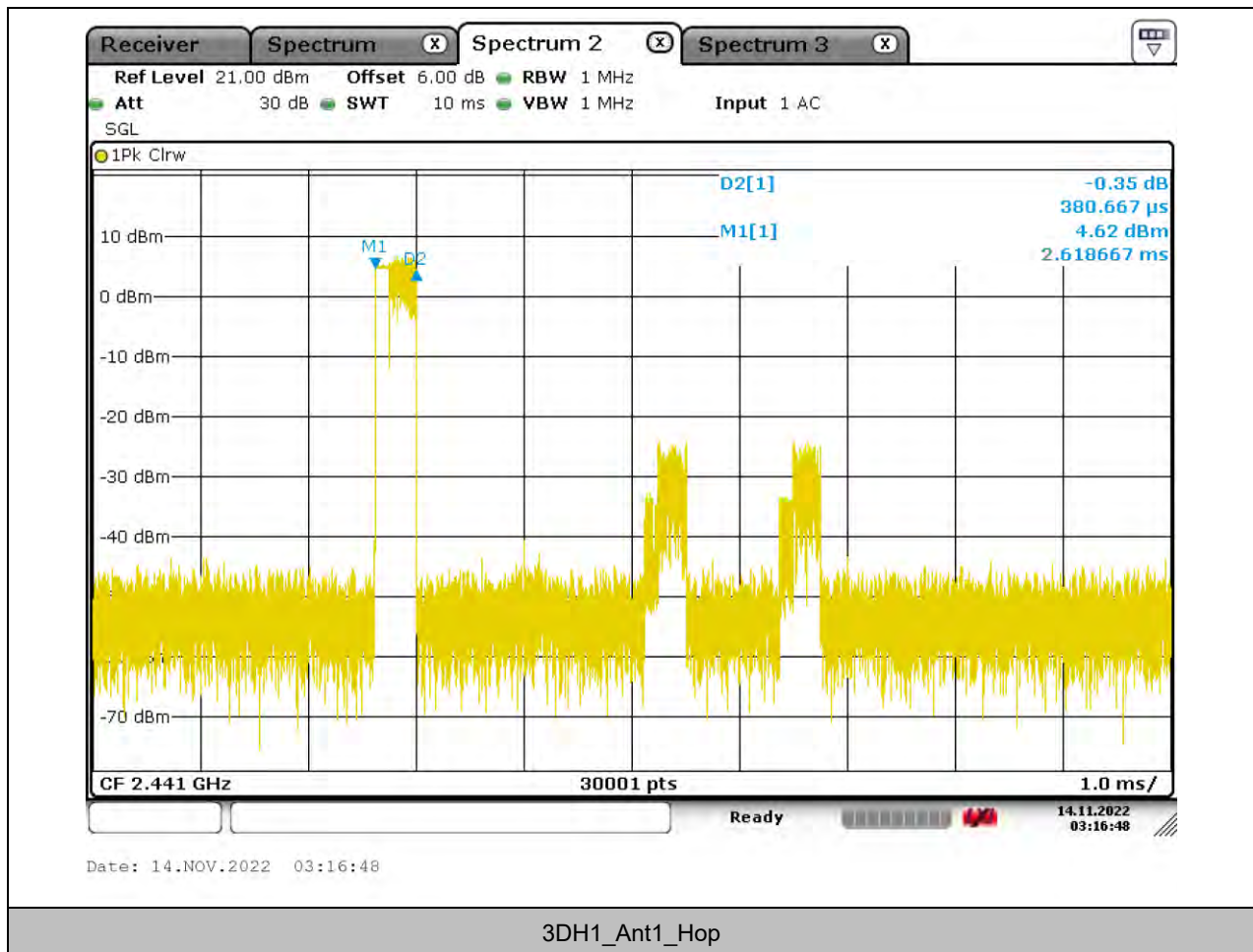
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

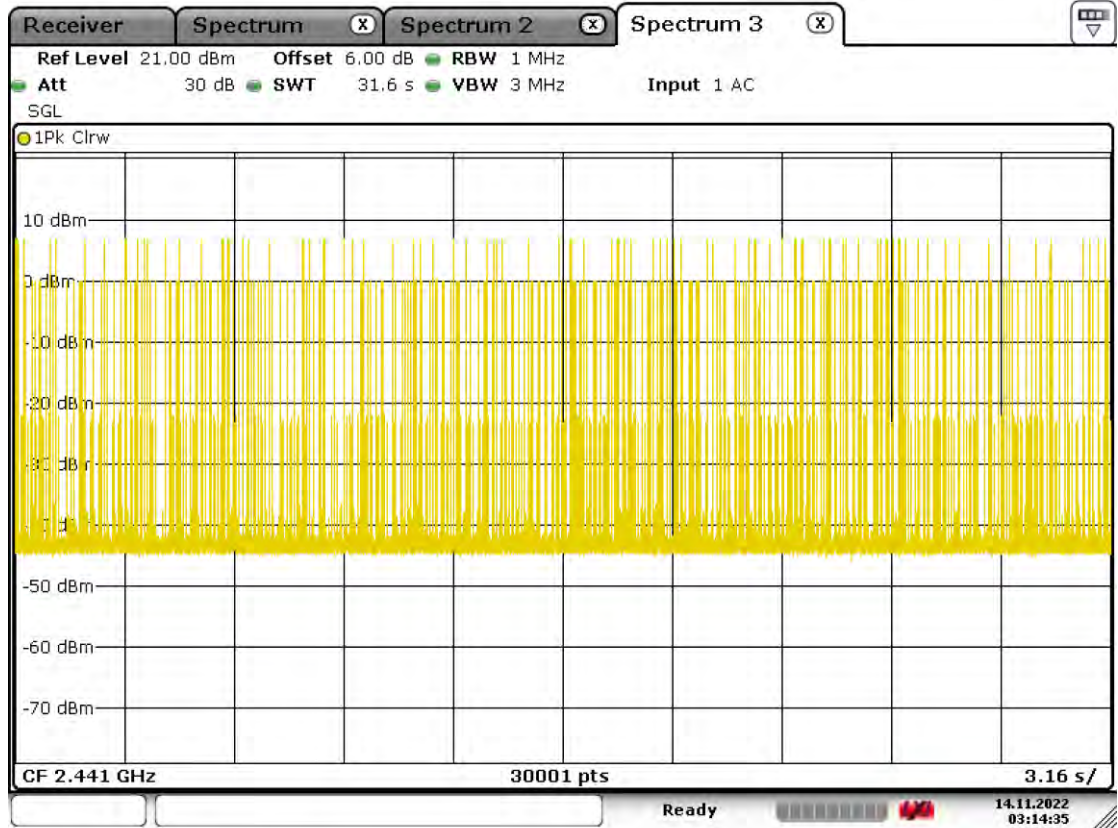
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



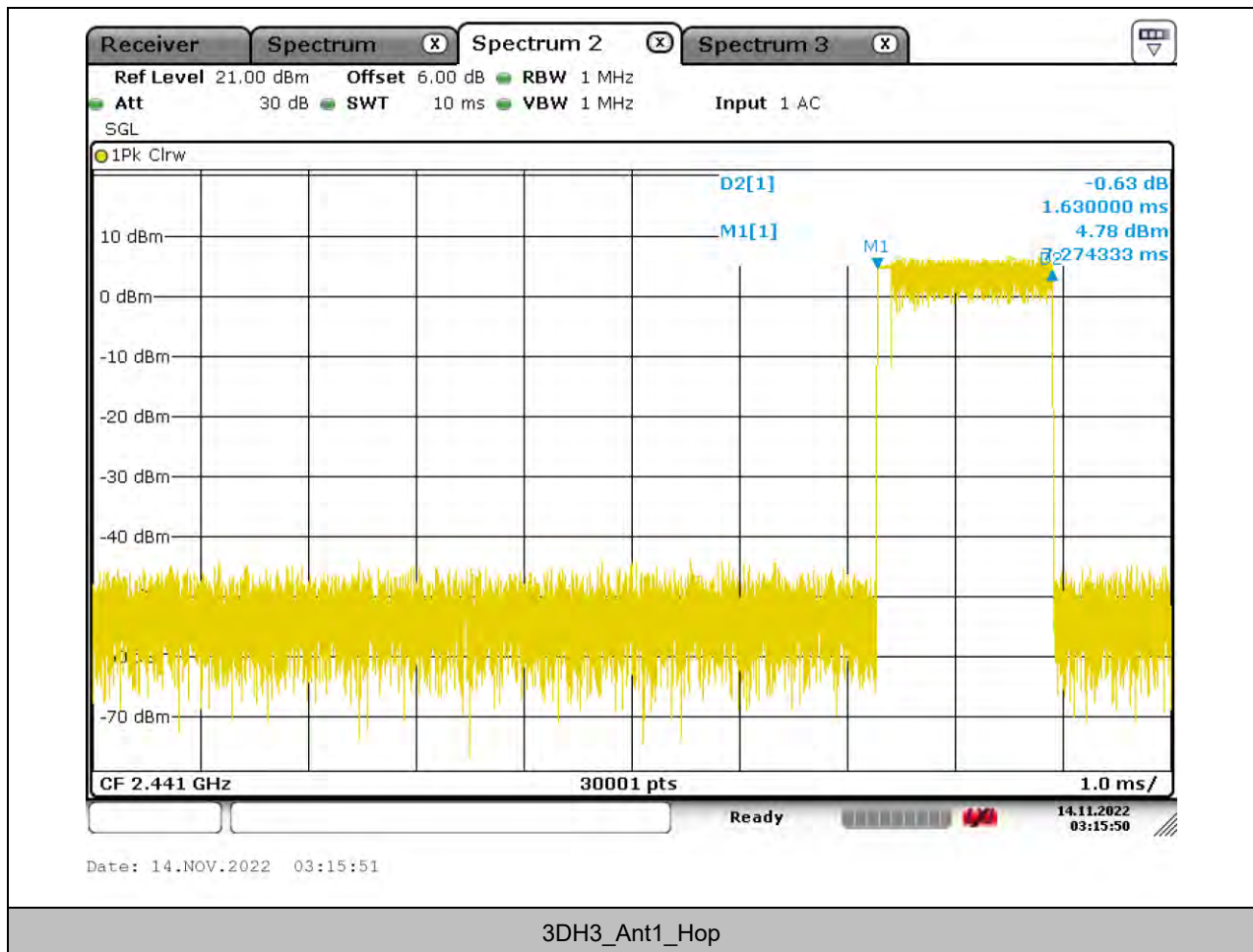
Date: 14.NOV.2022 03:14:36

3DH3_Ant1_Hop



BUREAU
VERITAS

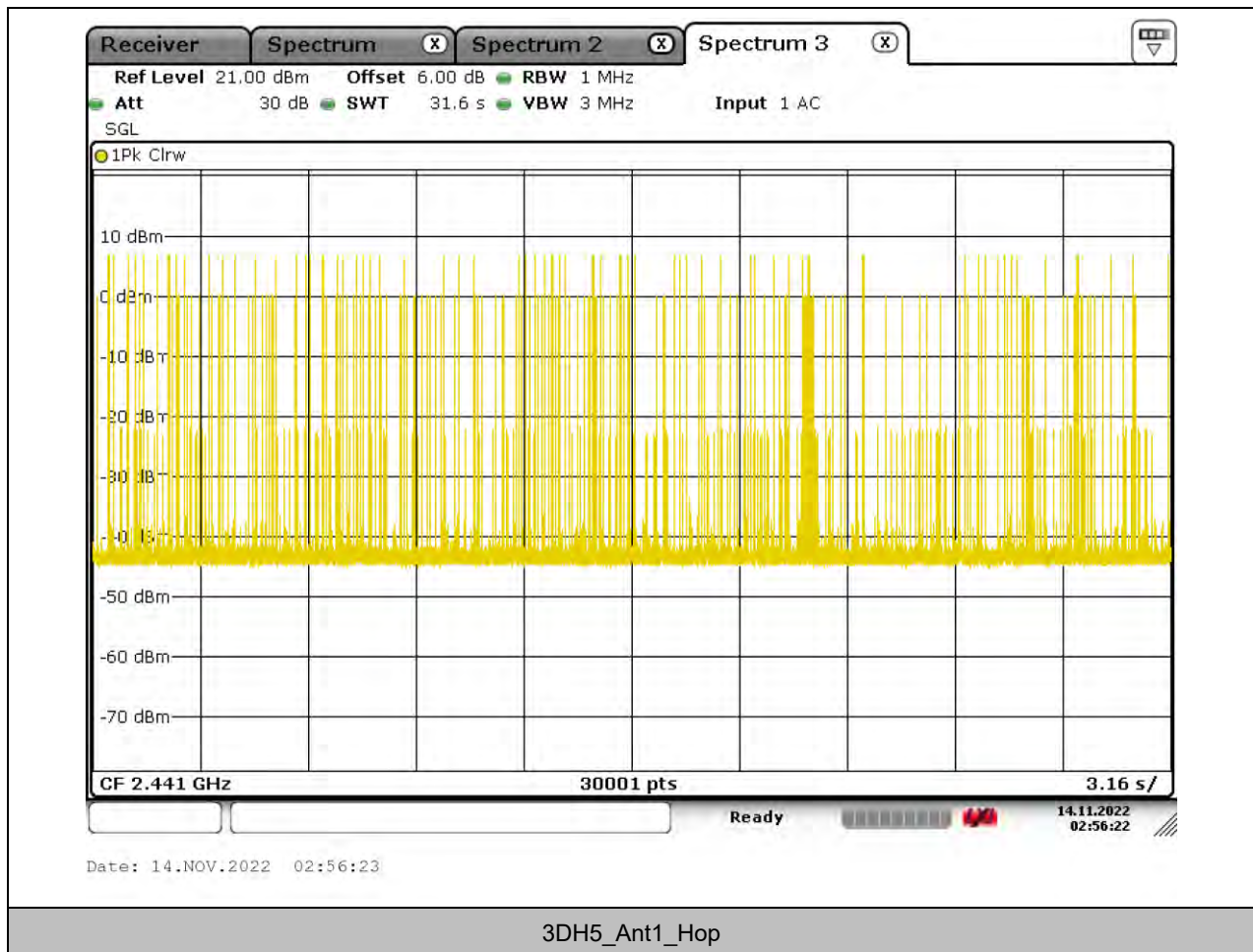
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

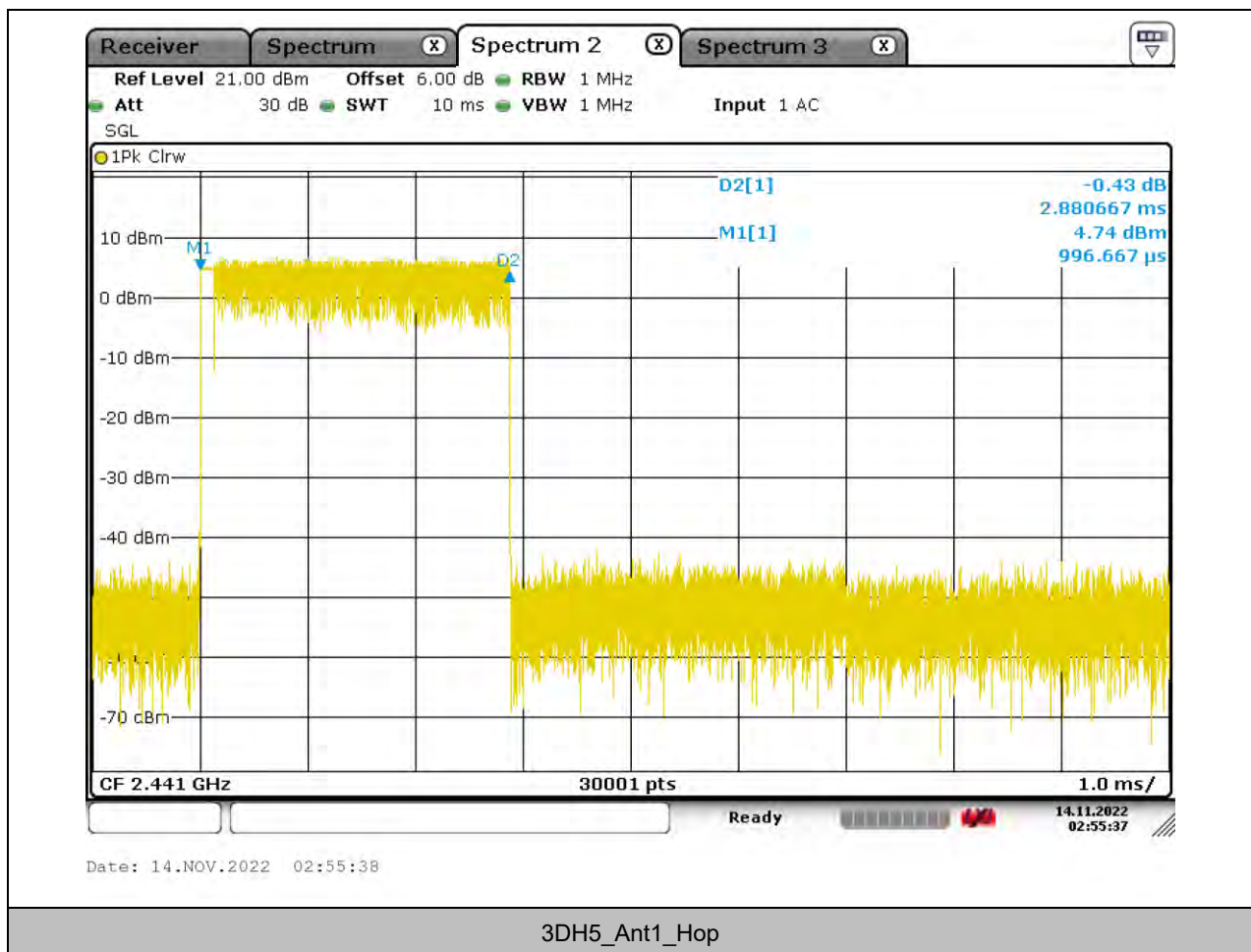
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01





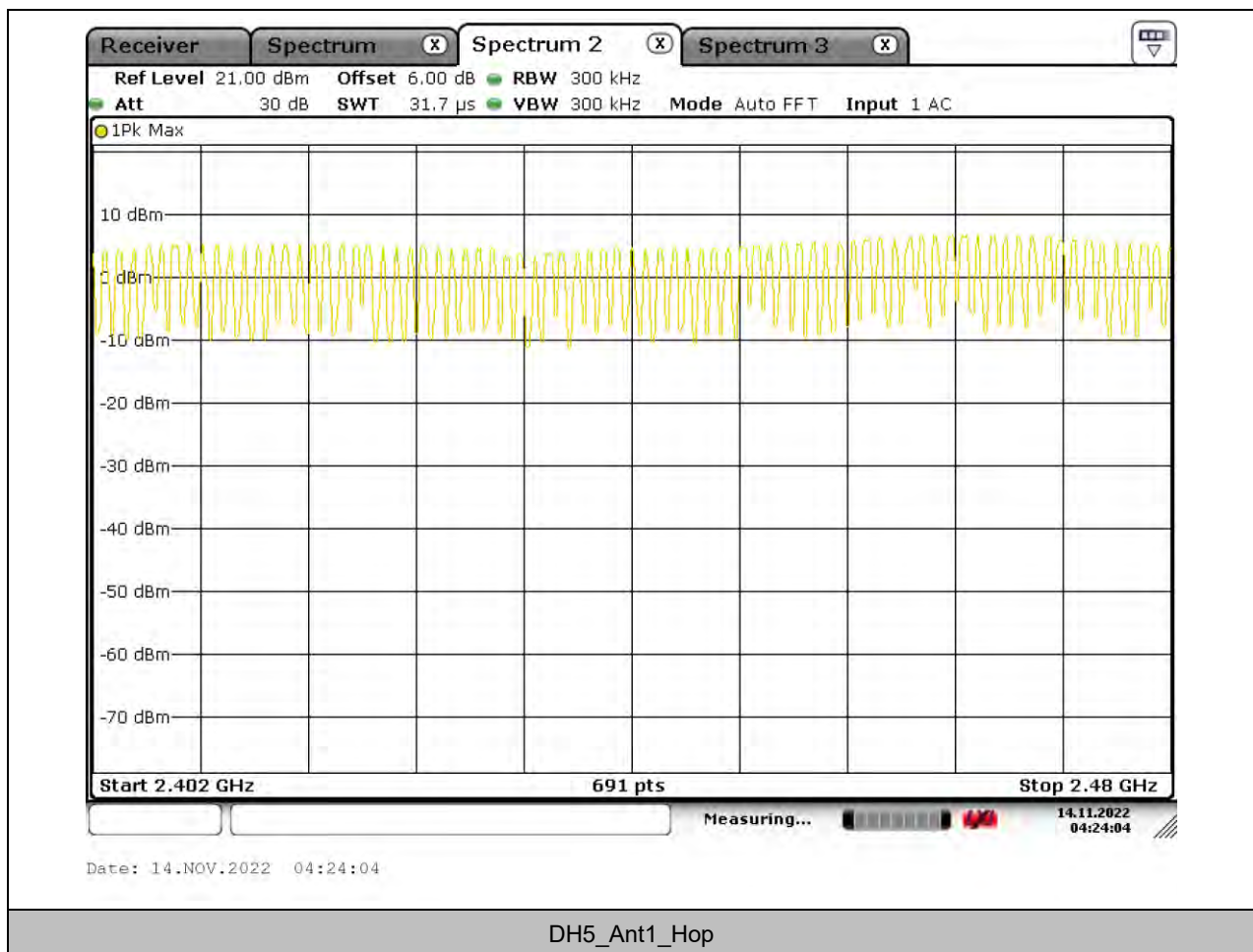
Test Report No.: W7L-P22090023RF01

NUMBER OF HOPPING CHANNELS

TEST RESULT

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

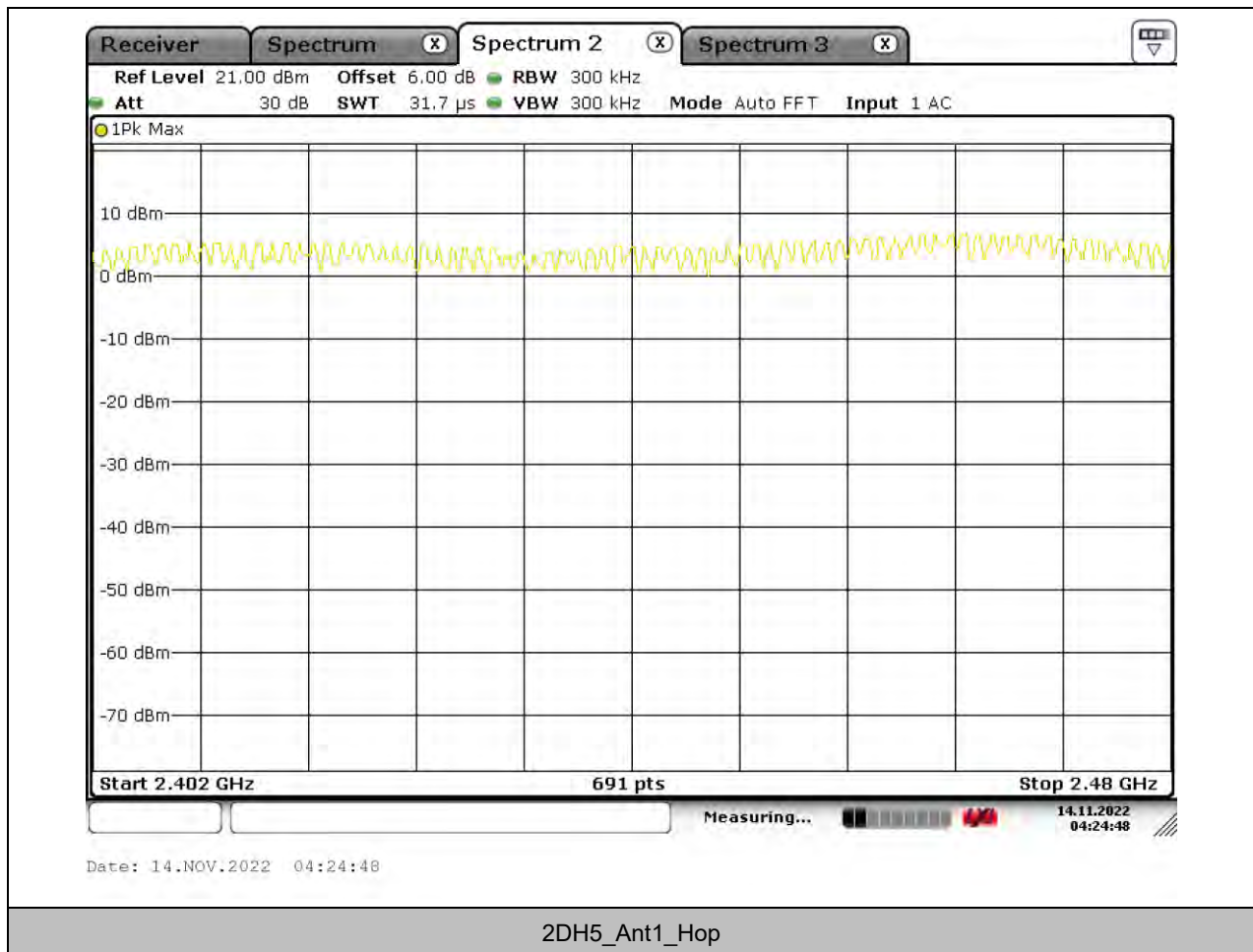
TEST GRAPHS





BUREAU
VERITAS

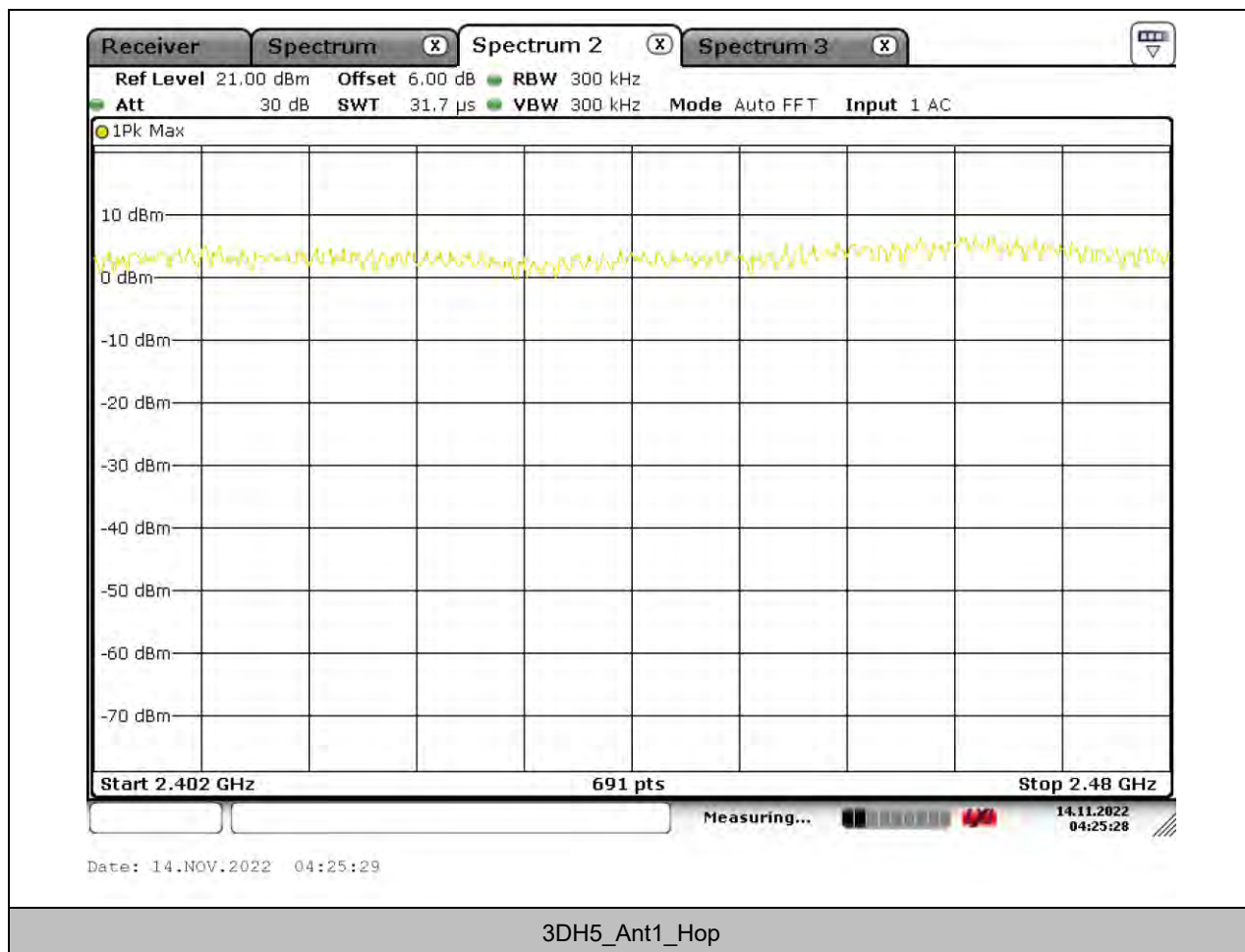
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01

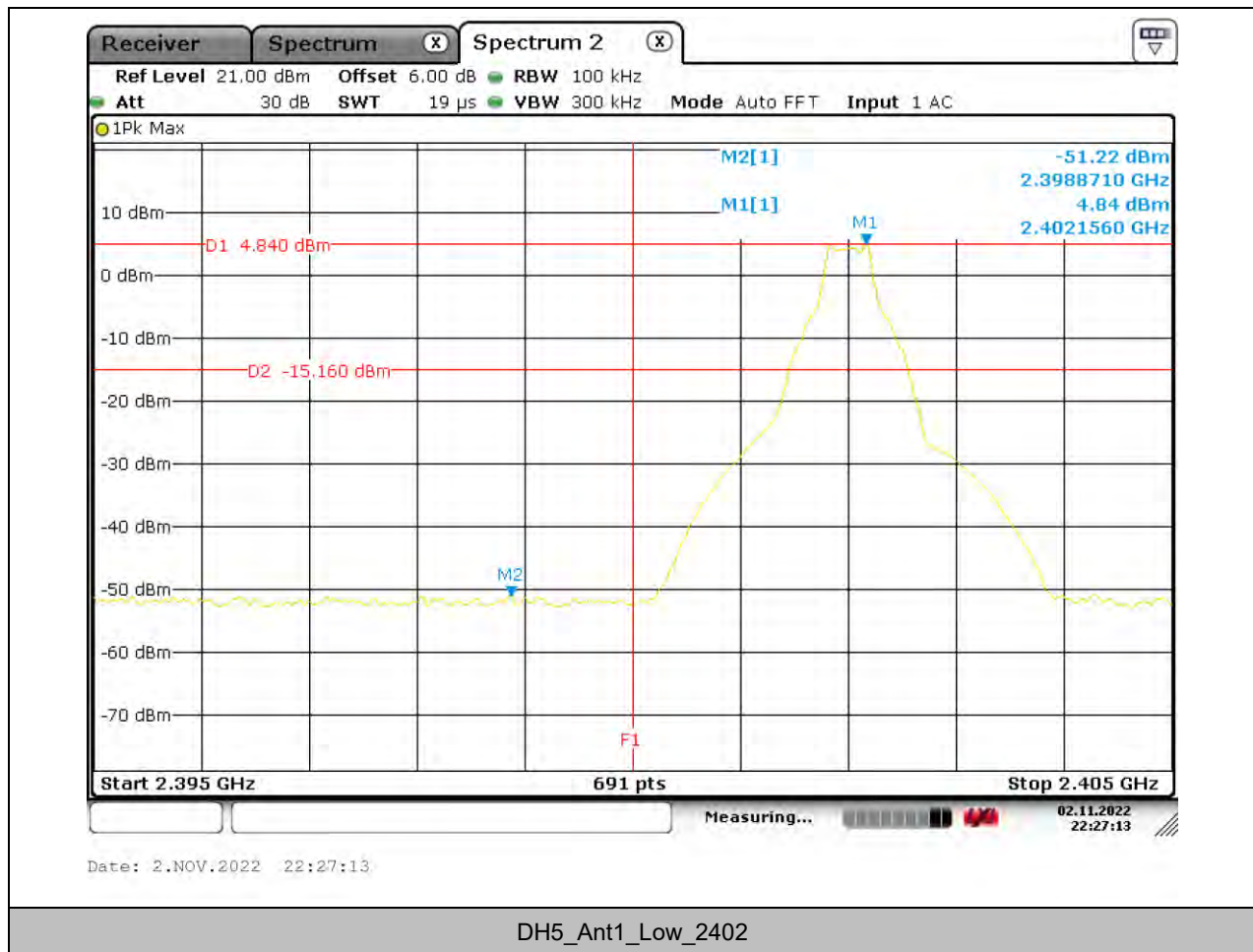


BAND EDGE MEASUREMENTS

TEST RESULT

TestMode	Antenna	ChName	Channel	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	4.84	-51.22	≤-15.16	PASS
		High	2480	5.67	-53.66	≤-14.33	PASS
		Low	Hop_2402	5.50	-51.33	≤-14.50	PASS
		High	Hop_2480	5.49	-50.61	≤-14.51	PASS
2DH5	Ant1	Low	2402	4.37	-45.34	≤-15.63	PASS
		High	2480	5.08	-50.76	≤-14.92	PASS
		Low	Hop_2402	4.66	-46.80	≤-15.34	PASS
		High	Hop_2480	5.27	-50.42	≤-14.73	PASS
3DH5	Ant1	Low	2402	4.52	-44.06	≤-15.48	PASS
		High	2480	5.29	-50.62	≤-14.71	PASS
		Low	Hop_2402	4.54	-46.84	≤-15.46	PASS
		High	Hop_2480	5.67	-50.03	≤-14.33	PASS

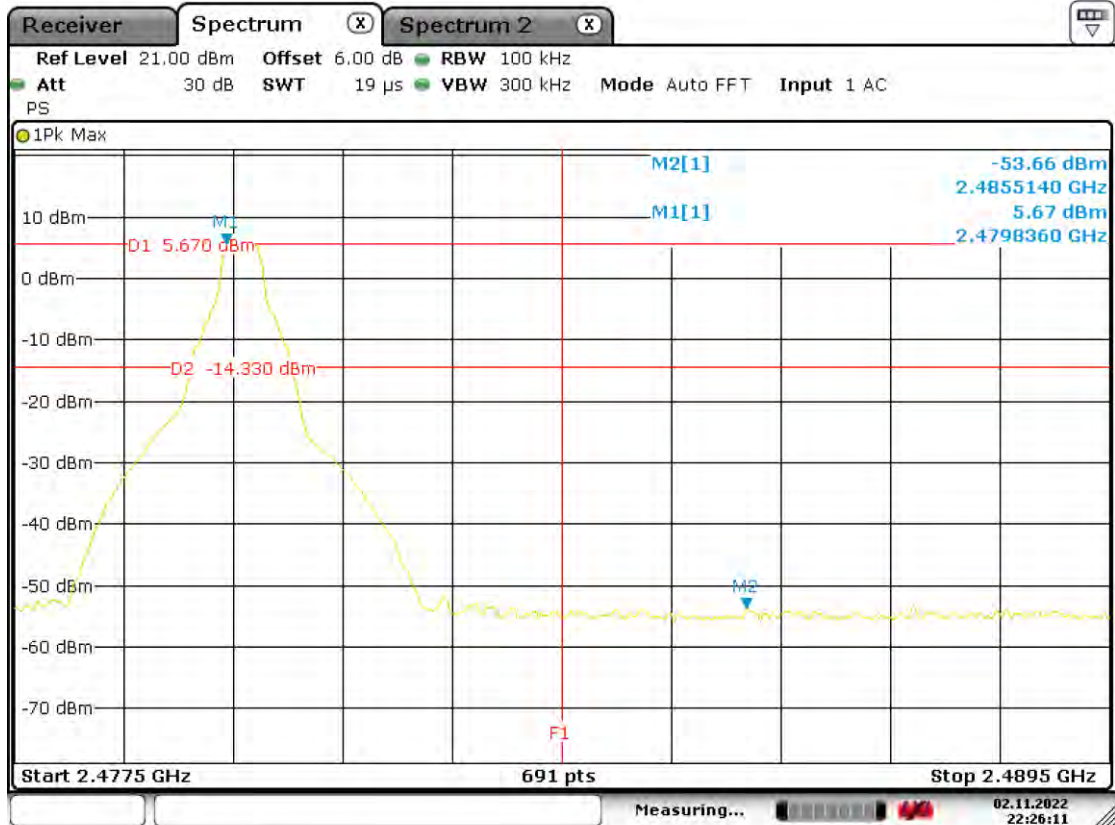
TEST GRAPHS





BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



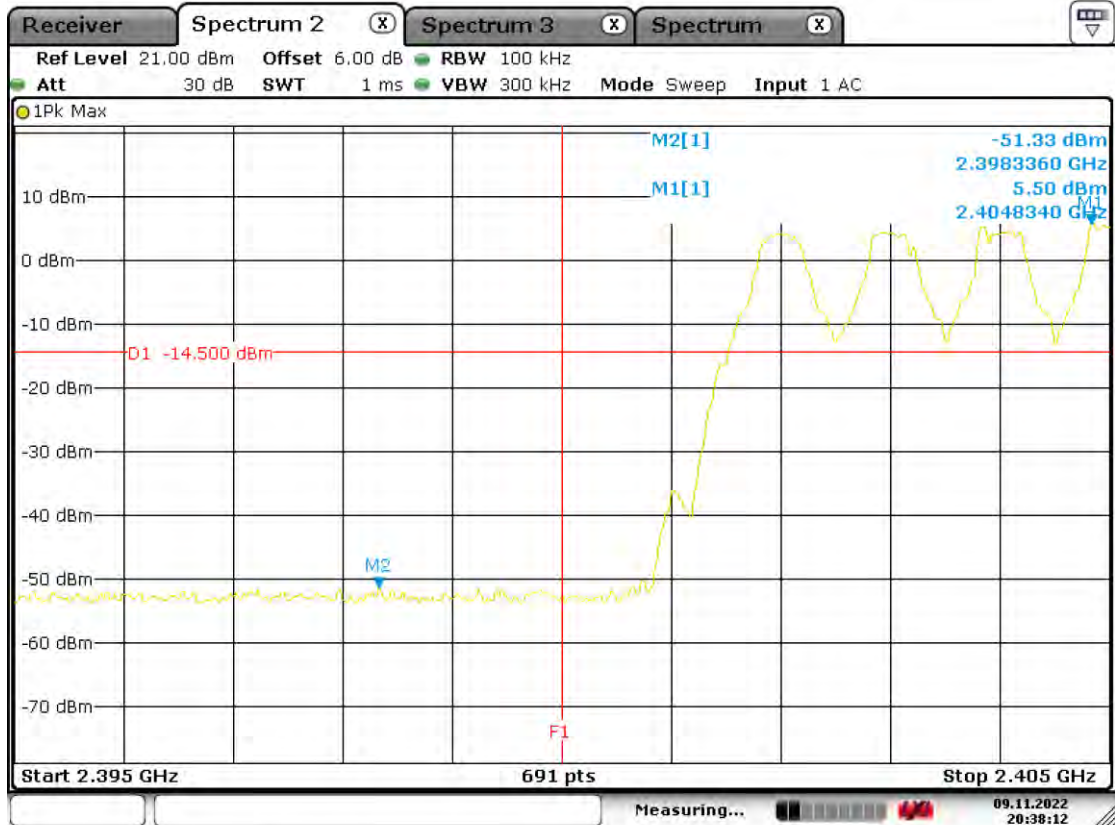
Date: 2.NOV.2022 22:26:11

DH5_Ant1_High_2480



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



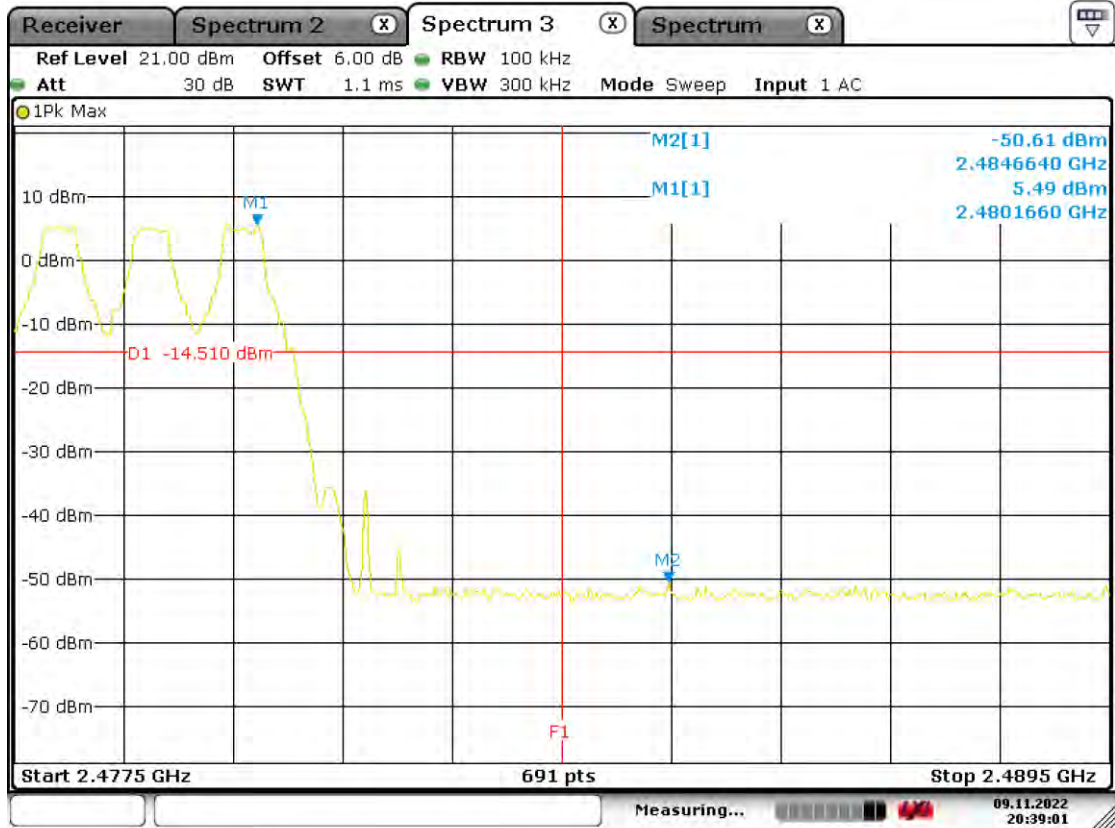
Date: 9.NOV.2022 20:38:12

DH5_Ant1_Low_Hop_2402



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



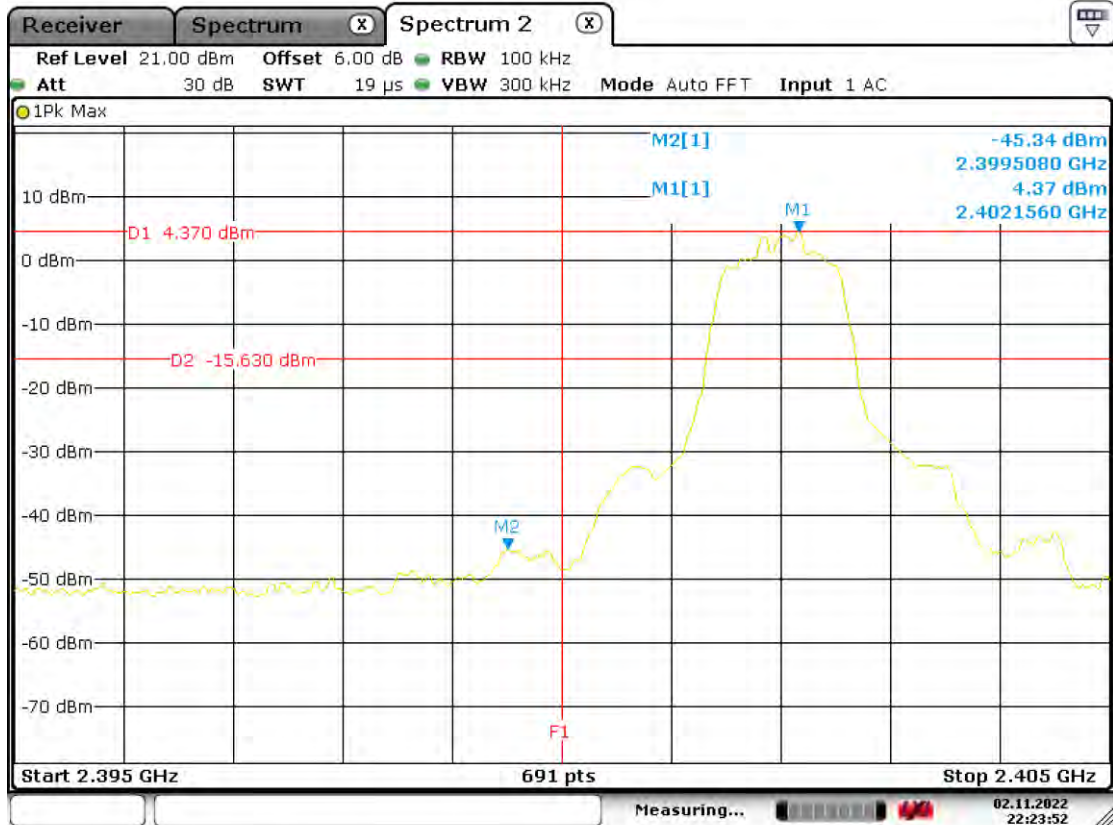
Date: 9.NOV.2022 20:39:02

DH5_Ant1_High_Hop_2480



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



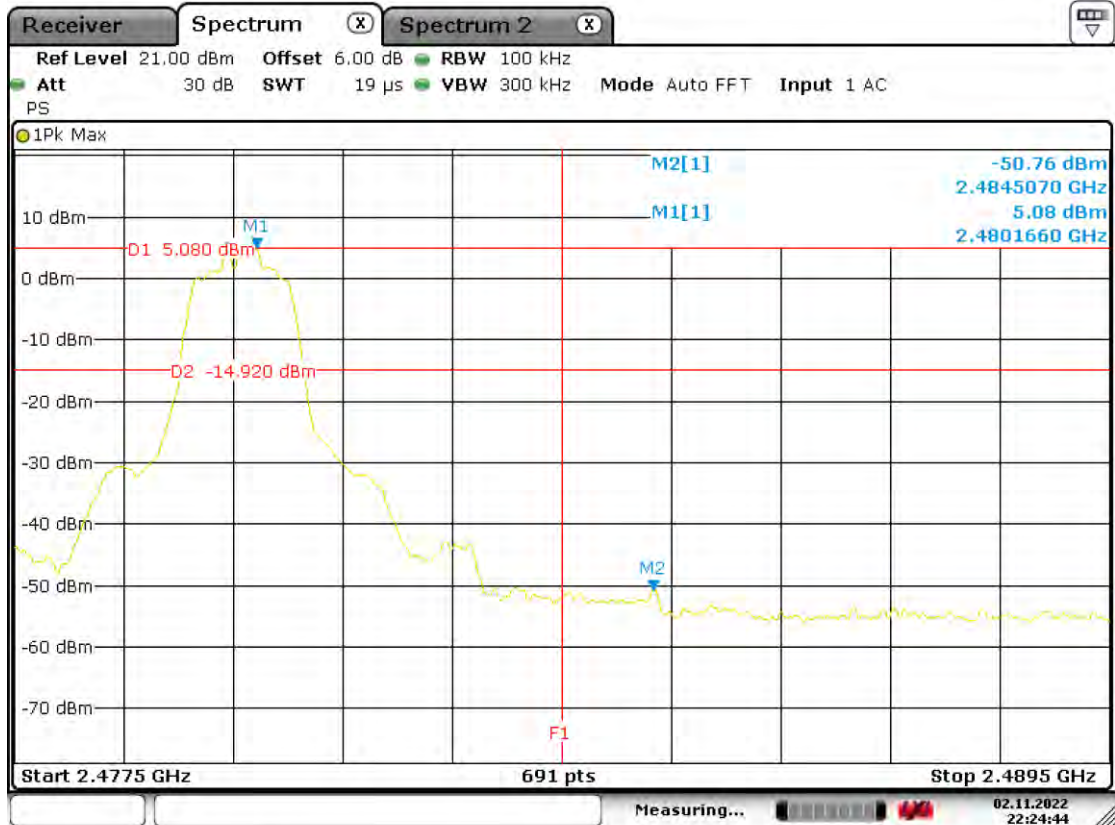
Date: 2.NOV.2022 22:23:52

2DH5_Ant1_Low_2402



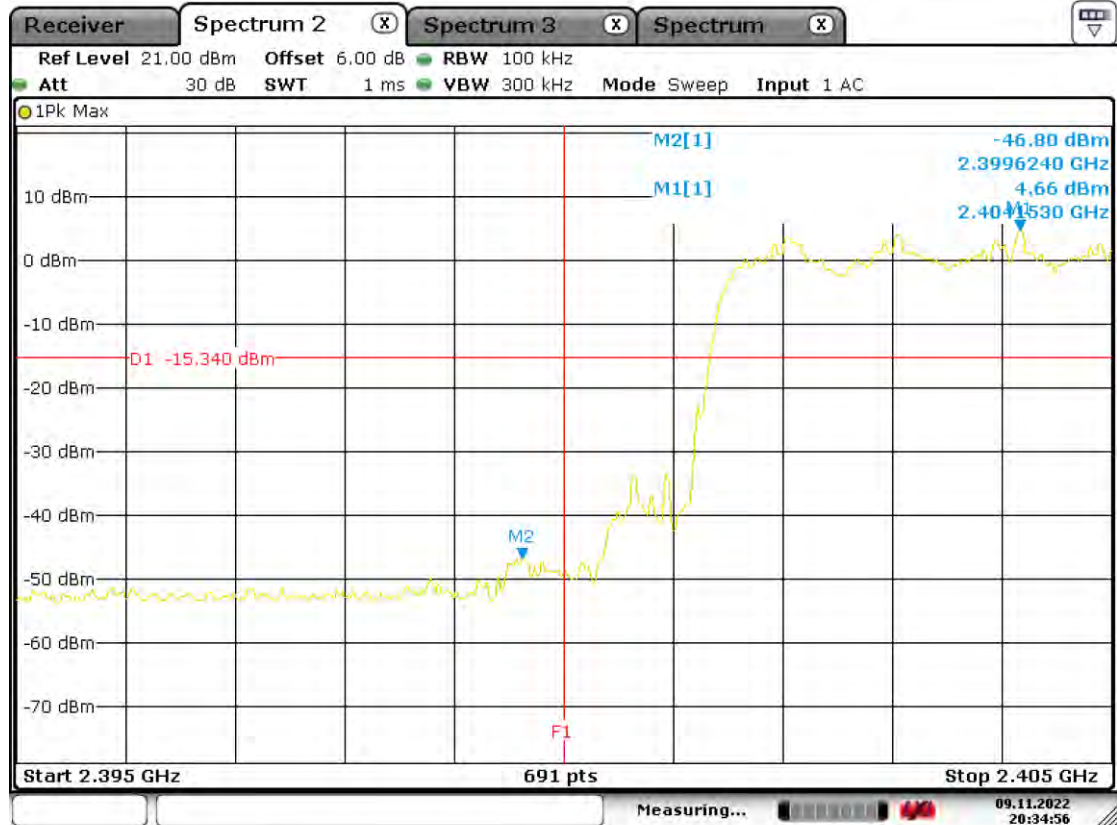
BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



Date: 2.NOV.2022 22:24:43

2DH5_Ant1_High_2480



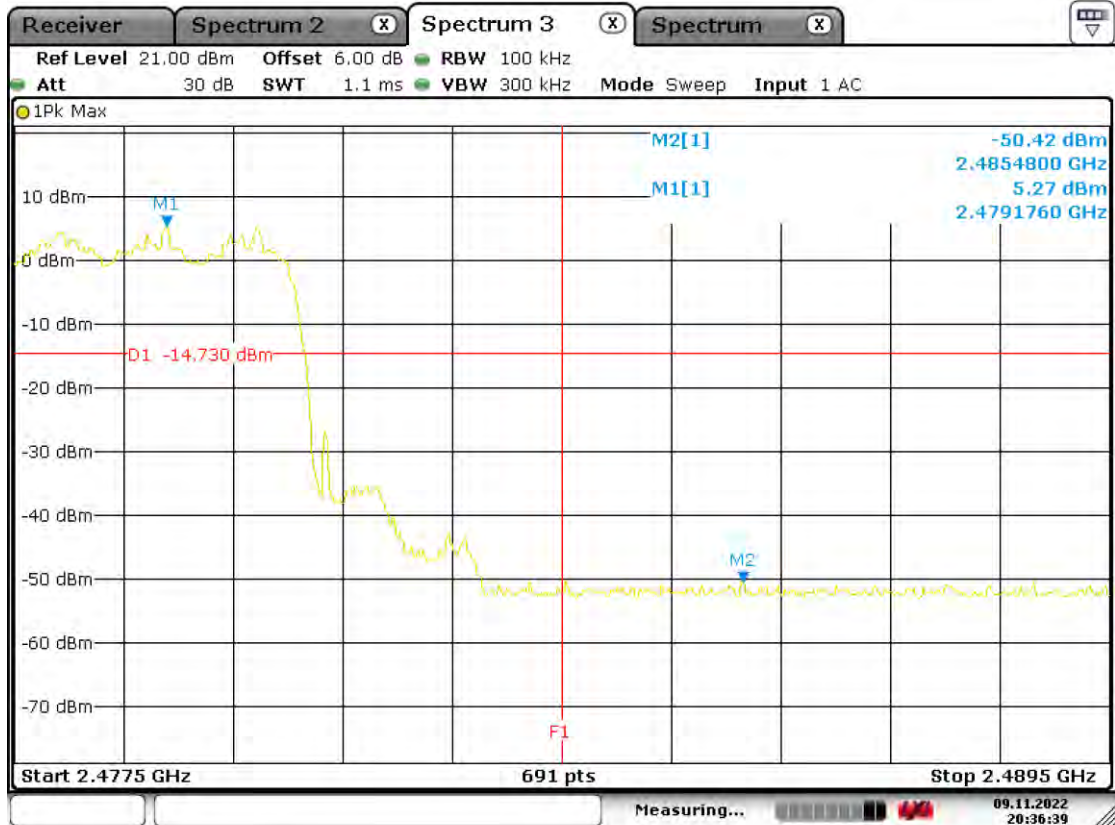
Date: 9.NOV.2022 20:34:57

2DH5_Ant1_Low_Hop_2402



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



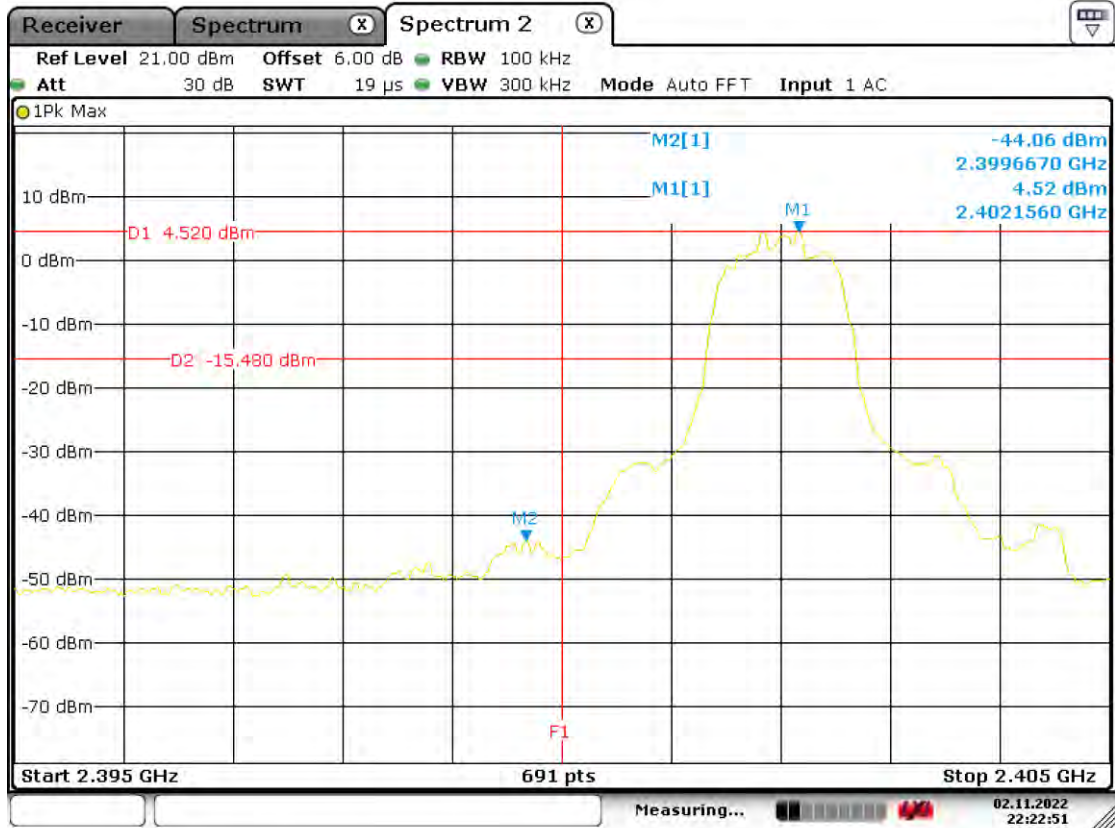
Date: 9.NOV.2022 20:36:40

2DH5_Ant1_High_Hop_2480



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



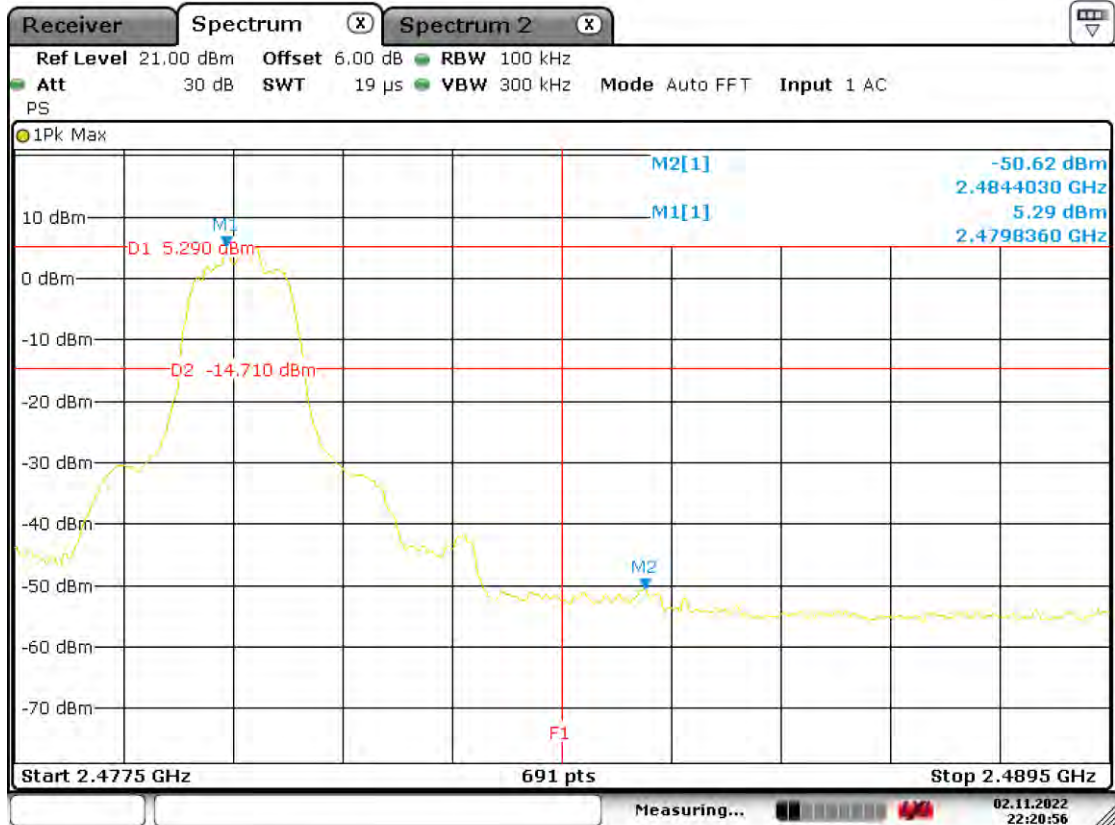
Date: 2.NOV.2022 22:22:51

3DH5_Ant1_Low_2402



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



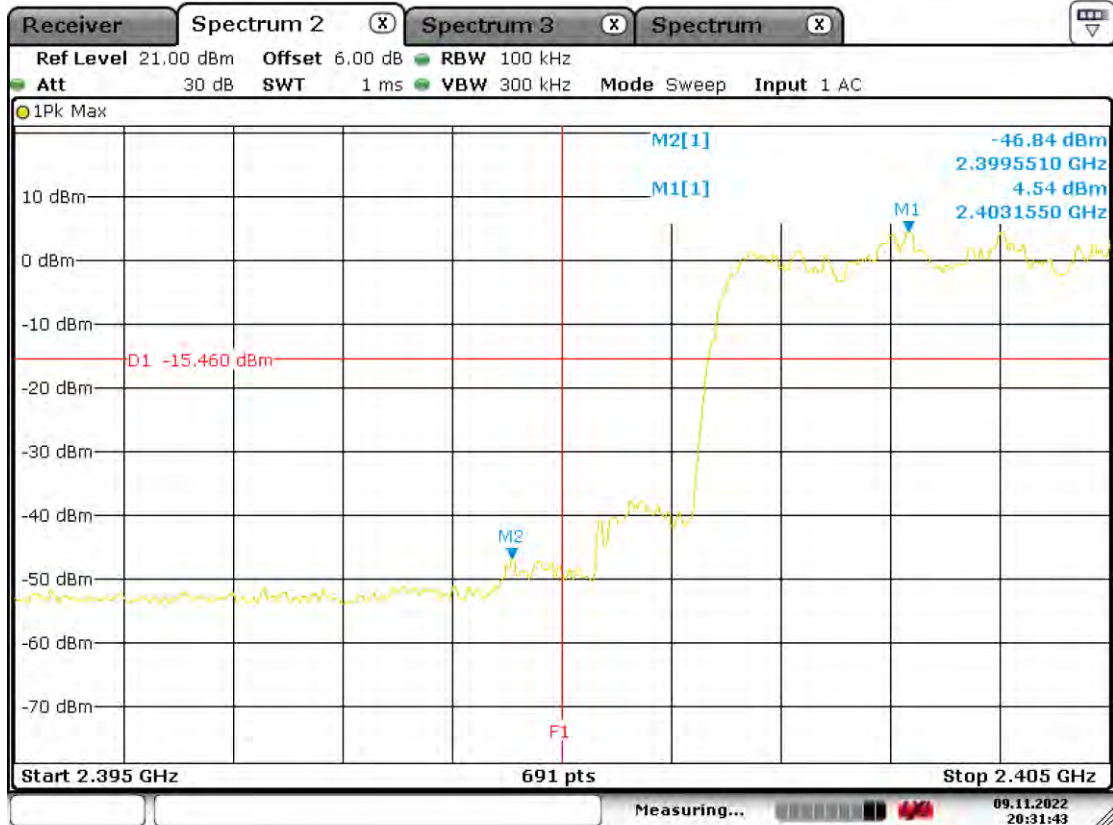
Date: 2.NOV.2022 22:20:56

3DH5_Ant1_High_2480



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



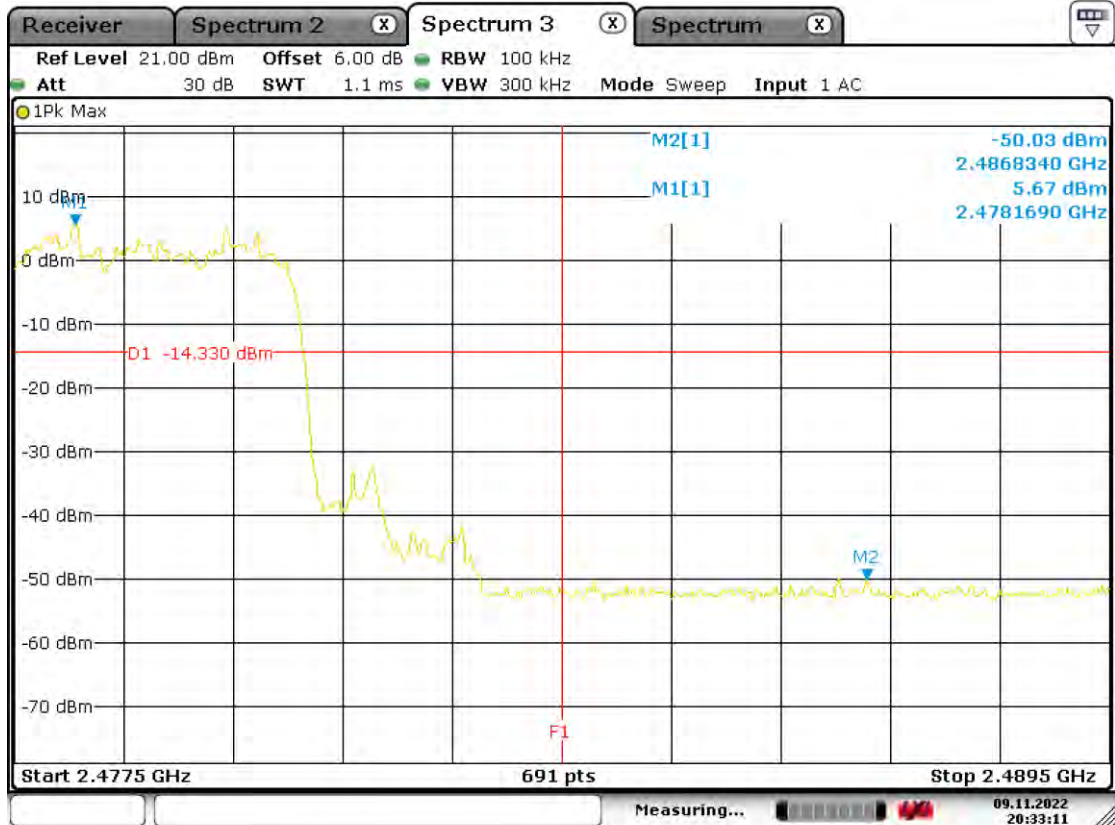
Date: 9.NOV.2022 20:31:43

3DH5_Ant1_Low_Hop_2402



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



Date: 9.NOV.2022 20:33:11

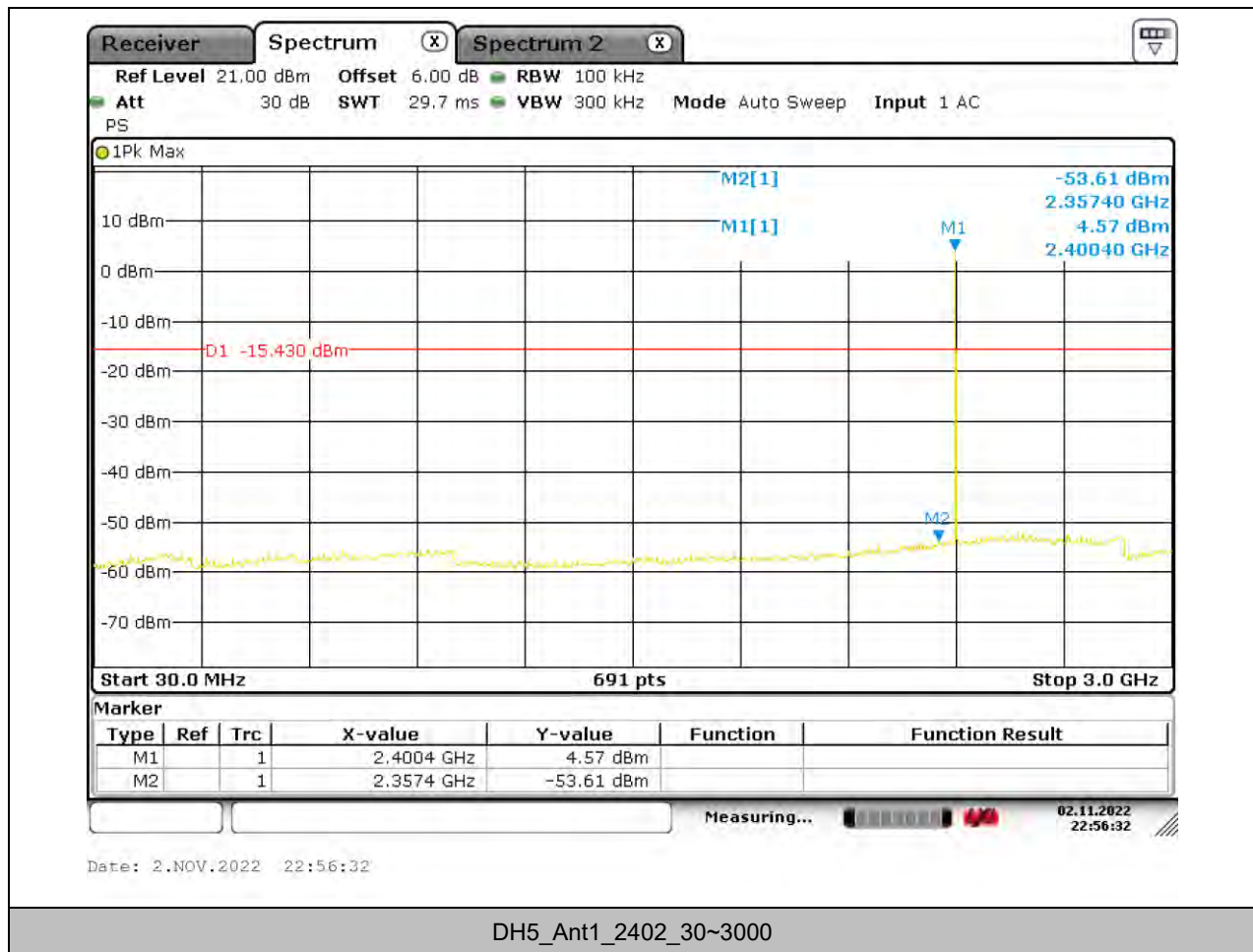
3DH5_Ant1_High_Hop_2480

CONDUCTED SPURIOUS EMISSION

TEST RESULT

TestMode	Antenna	Channel	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	30~3000	4.57	-53.61	≤-15.43	PASS
			2000~26500	4.60	-42.33	≤-15.4	PASS
		2441	30~3000	4.83	-47.62	≤-15.17	PASS
			2000~26500	5.17	-42.38	≤-14.83	PASS
		2480	30~3000	5.30	-54.32	≤-14.7	PASS
			2000~26500	4.99	-43.12	≤-15.01	PASS
2DH5	Ant1	2402	30~3000	3.81	-54.13	≤-16.19	PASS
			2000~26500	3.40	-42.34	≤-16.60	PASS
		2441	30~3000	3.61	-54.64	≤-16.39	PASS
			2000~26500	2.86	-42.82	≤-17.14	PASS
		2480	30~3000	4.89	-54.79	≤-15.11	PASS
			2000~26500	4.75	-41.99	≤-15.25	PASS
3DH5	Ant1	2402	30~3000	3.99	-51.47	≤-16.01	PASS
			2000~26500	3.47	-42.54	≤-16.53	PASS
		2441	30~3000	4.58	-48.37	≤-15.42	PASS
			2000~26500	4.07	-42.15	≤-15.93	PASS
		2480	30~3000	4.81	-36.94	≤-15.19	PASS
			2000~26500	4.37	-42.33	≤-15.63	PASS

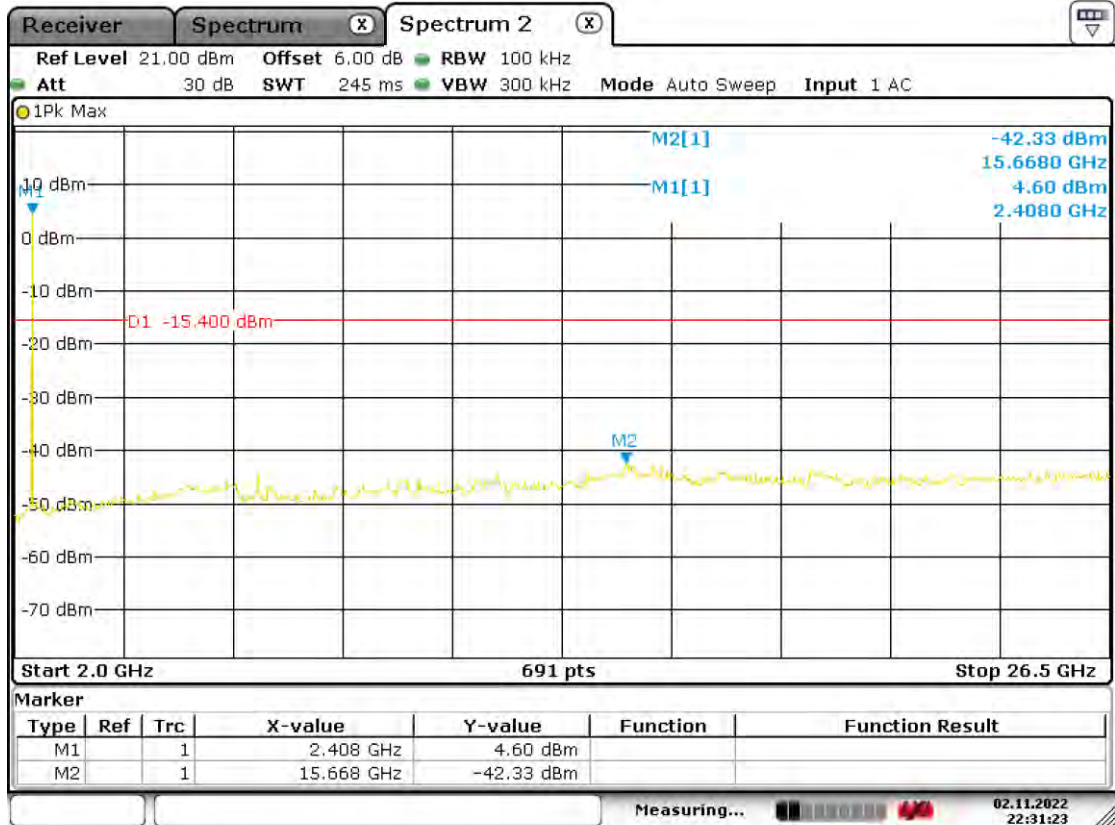
TEST GRAPHS





BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



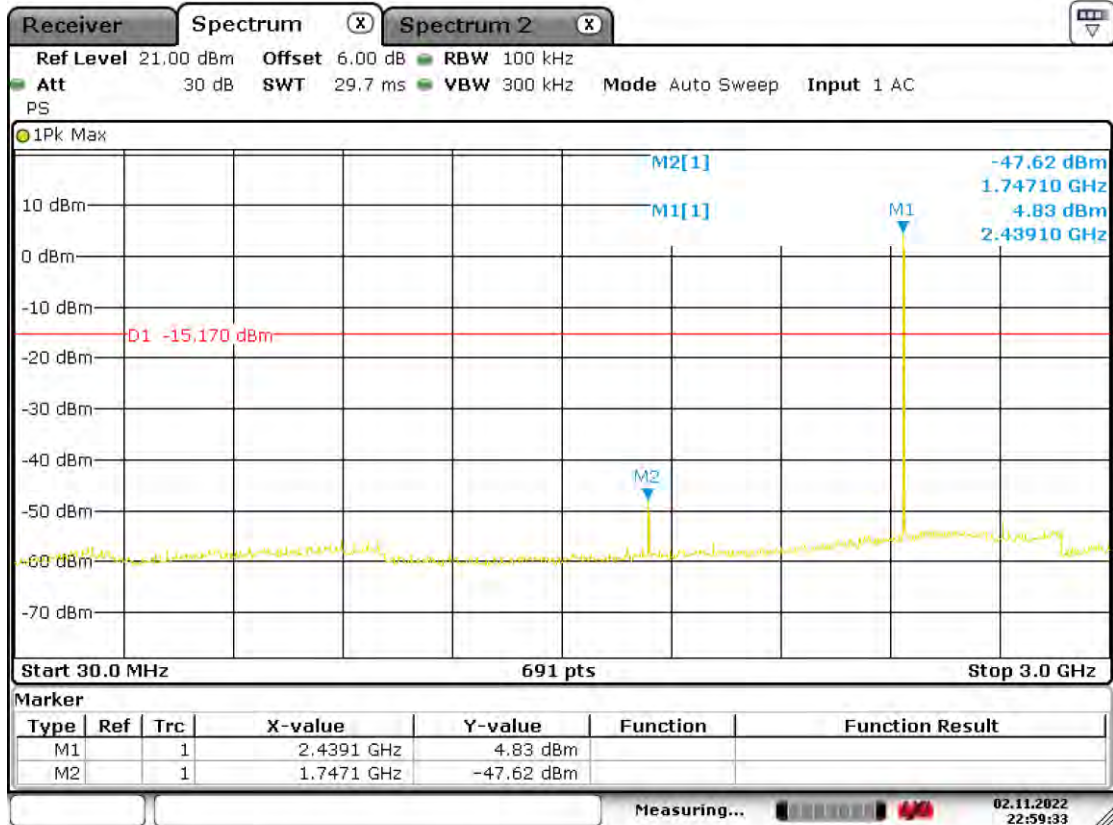
Date: 2.NOV.2022 22:31:23

DH5_Ant1_2402_2000~26500



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



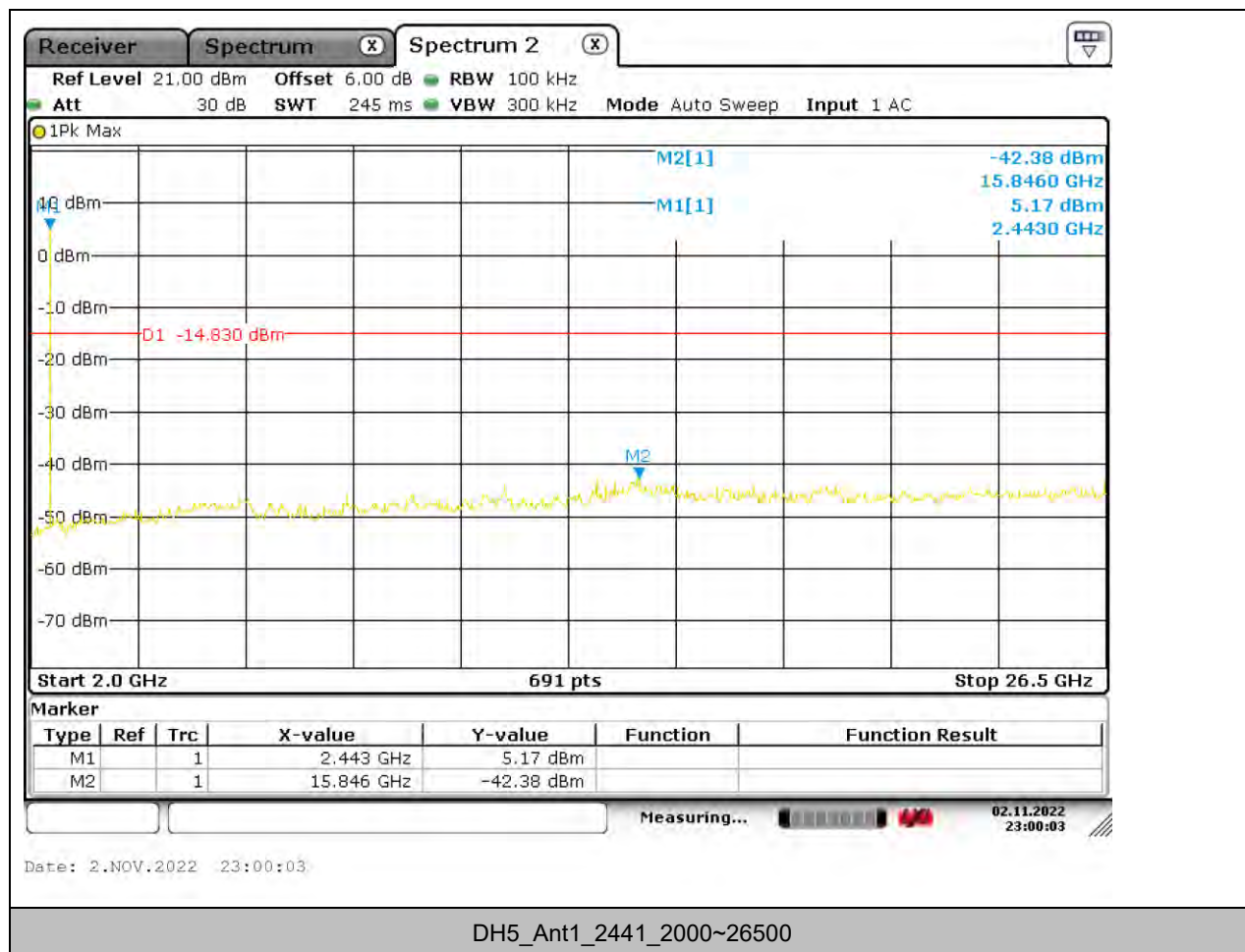
Date: 2.NOV.2022 22:59:33

DH5_Ant1_2441_30~3000



BUREAU
VERITAS

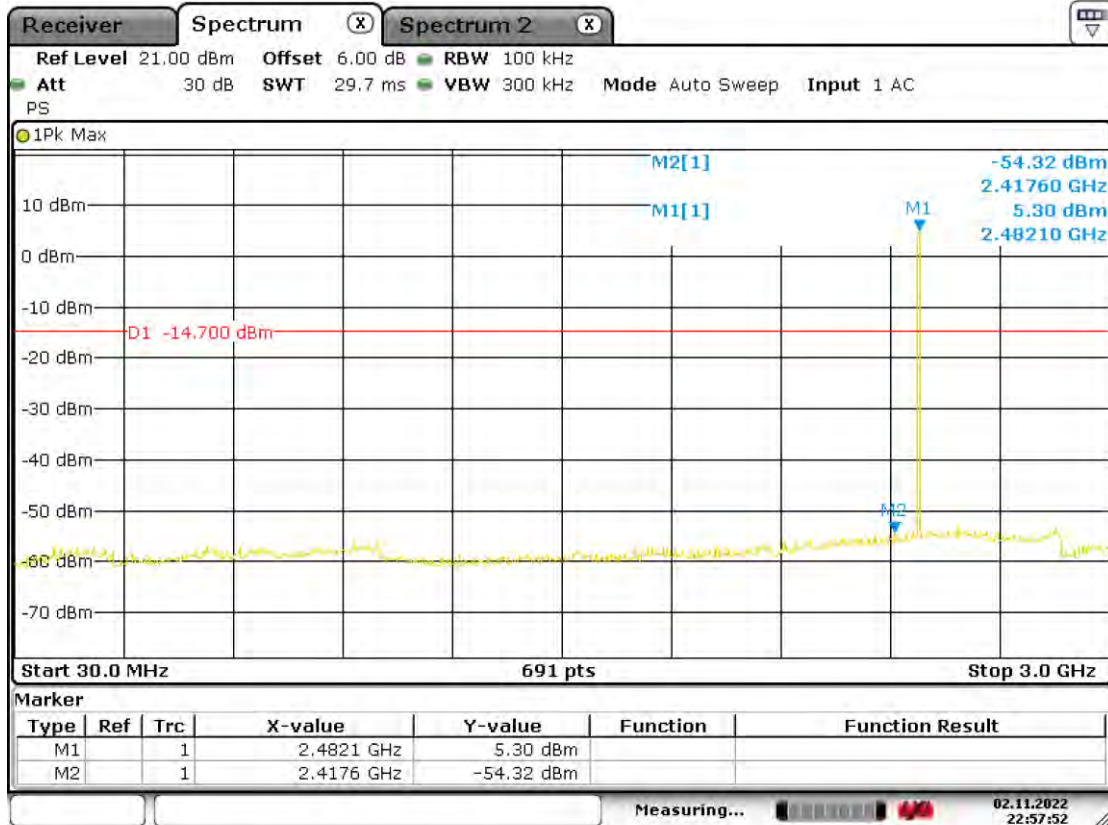
Test Report No.: W7L-P22090023RF01





BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



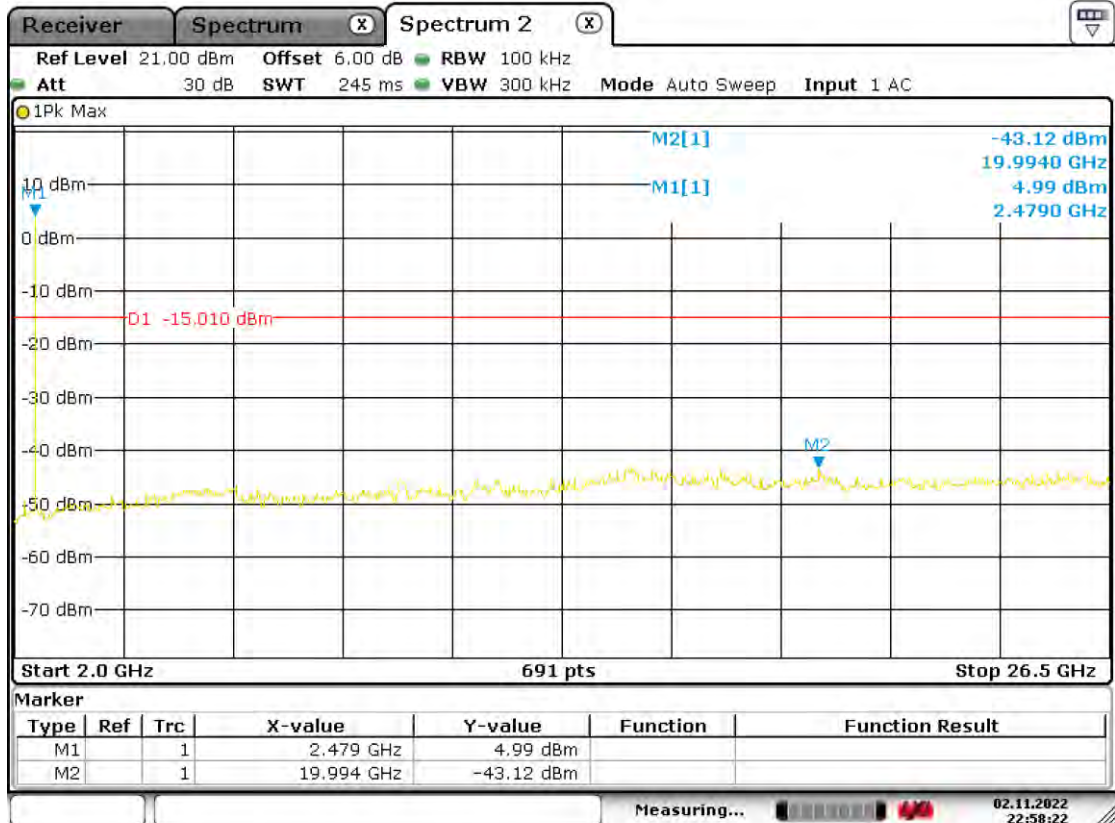
Date: 2.NOV.2022 22:57:51

DH5_Ant1_2480_30~3000



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



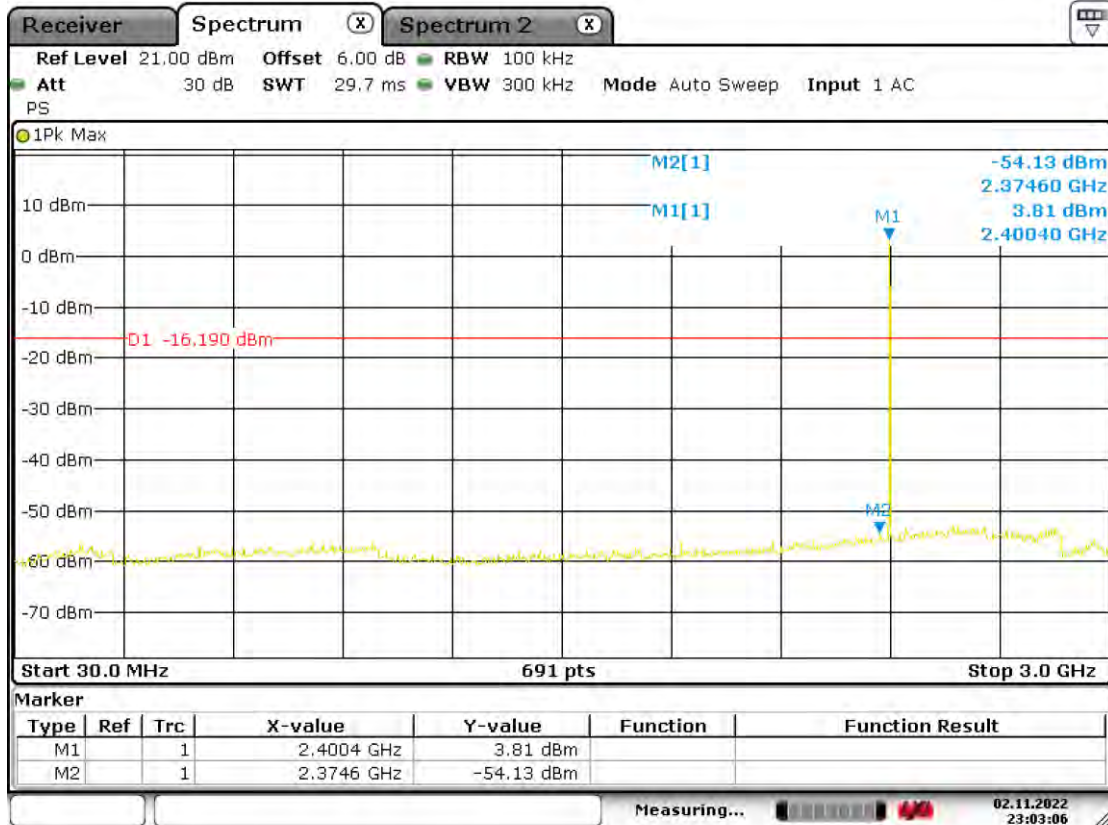
Date: 2.NOV.2022 22:58:21

DH5_Ant1_2480_2000~26500



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



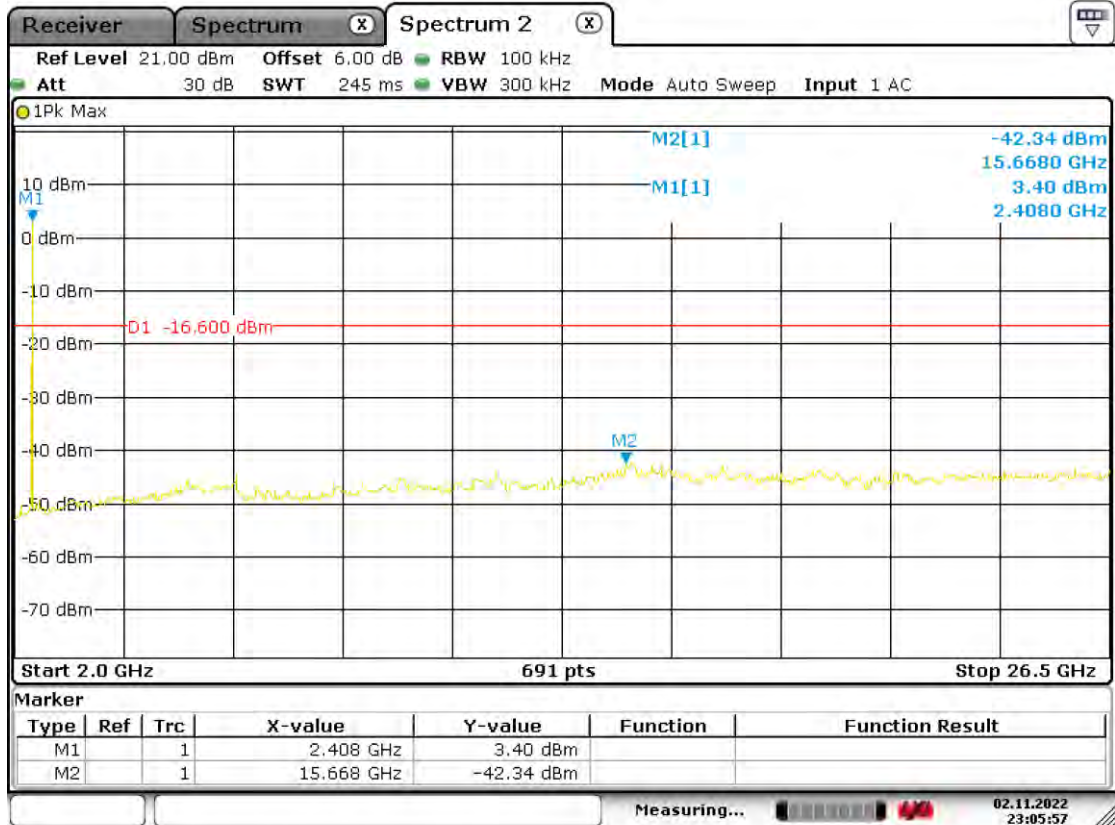
Date: 2.NOV.2022 23:03:05

2DH5_Ant1_2402_30~3000



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



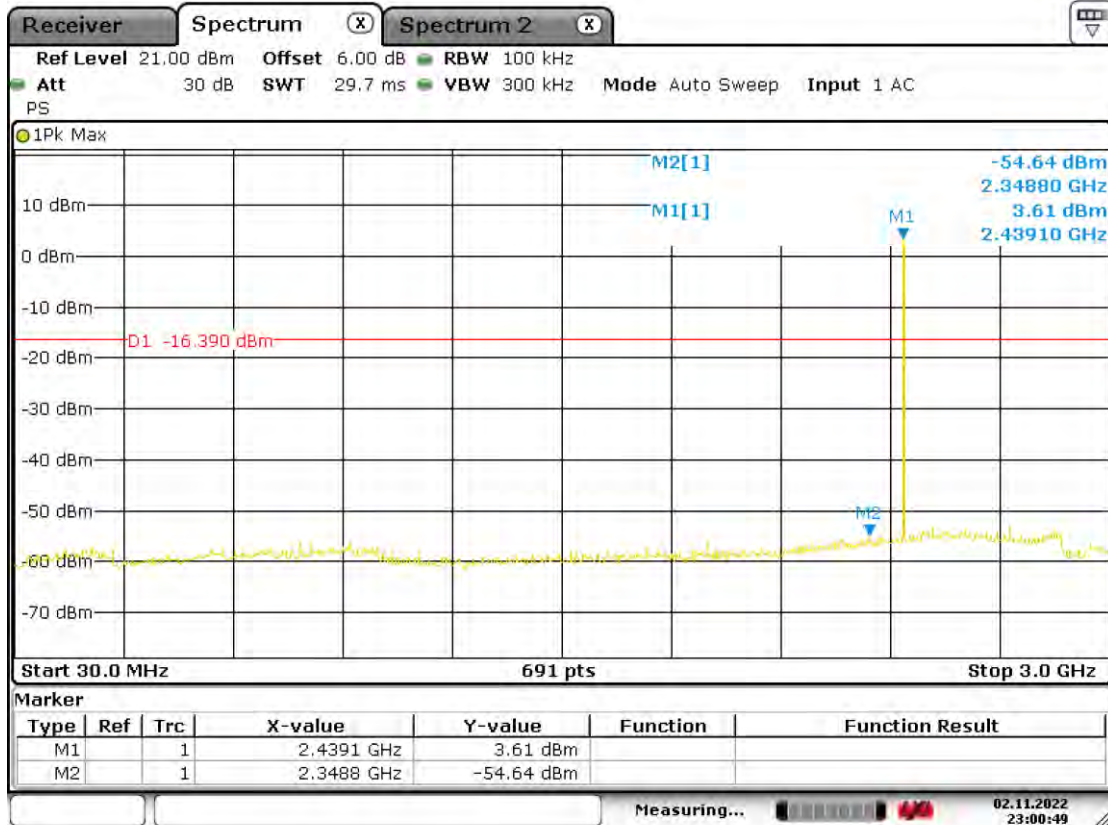
Date: 2.NOV.2022 23:05:57

2DH5_Ant1_2402_2000~26500



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



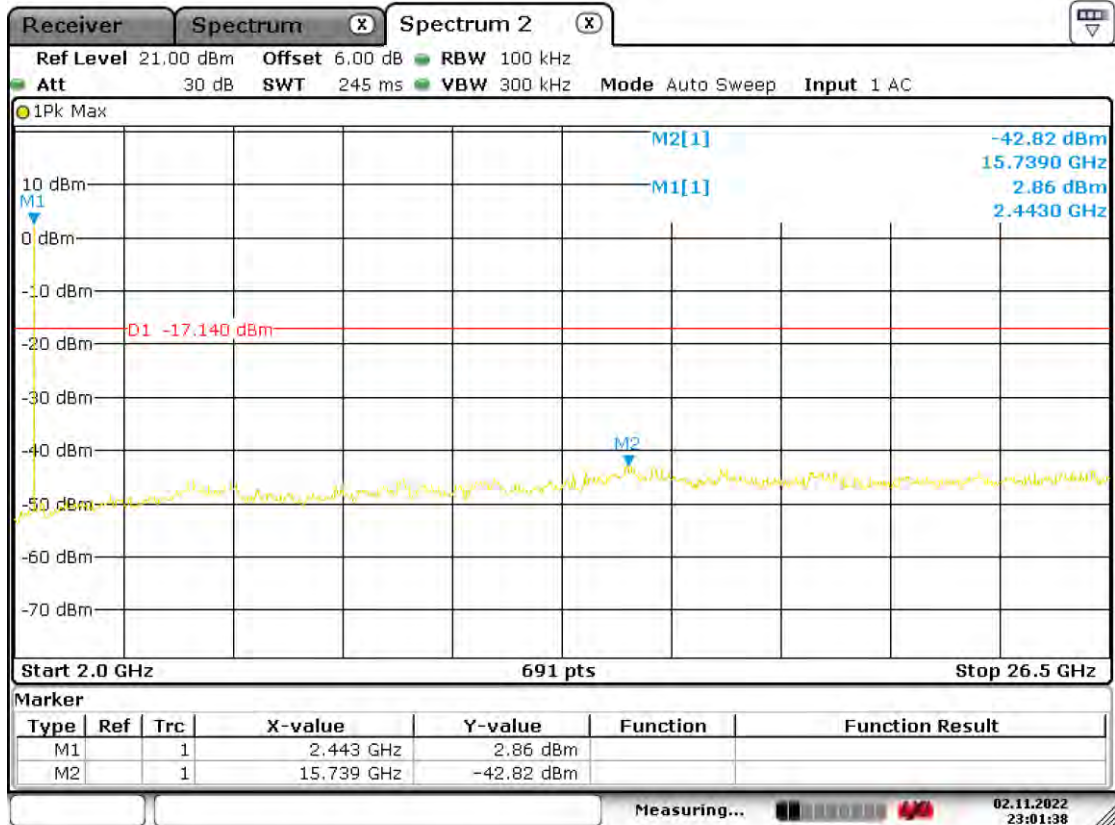
Date: 2.NOV.2022 23:00:49

2DH5_Ant1_2441_30~3000



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



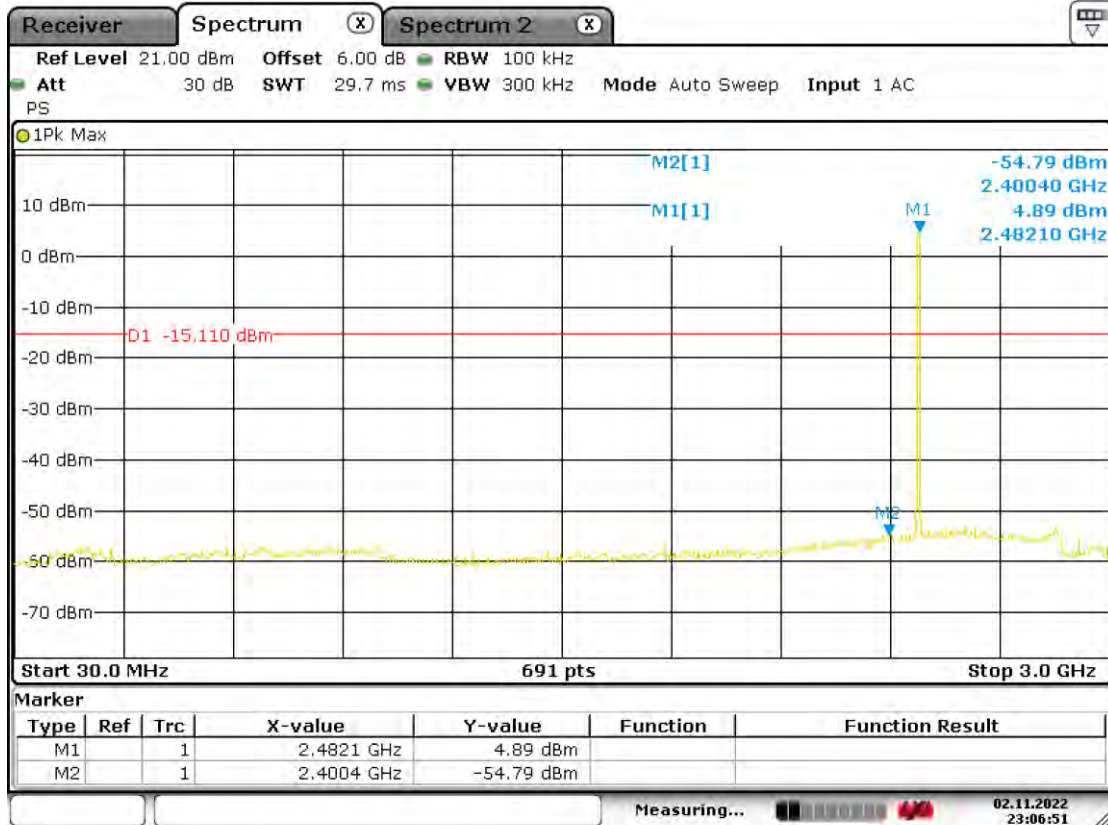
Date: 2.NOV.2022 23:01:37

2DH5_Ant1_2441_2000~26500



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



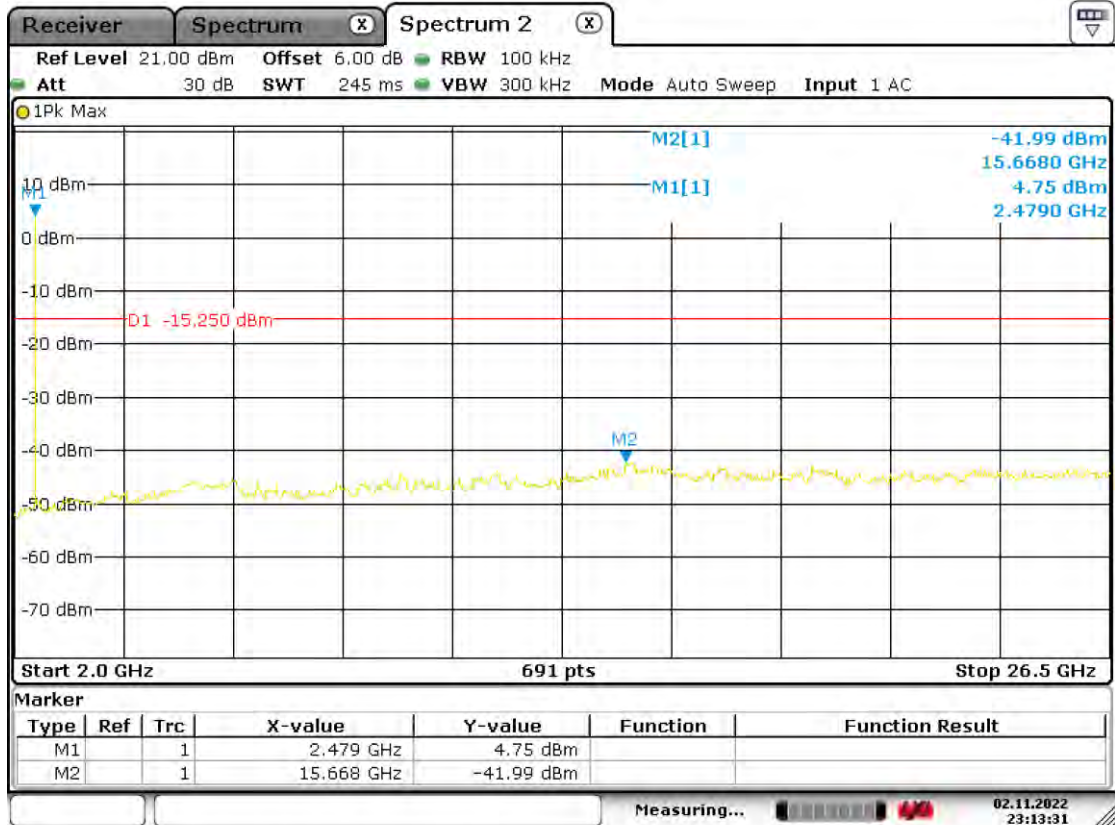
Date: 2.NOV.2022 23:06:51

2DH5_Ant1_2480_30~3000



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



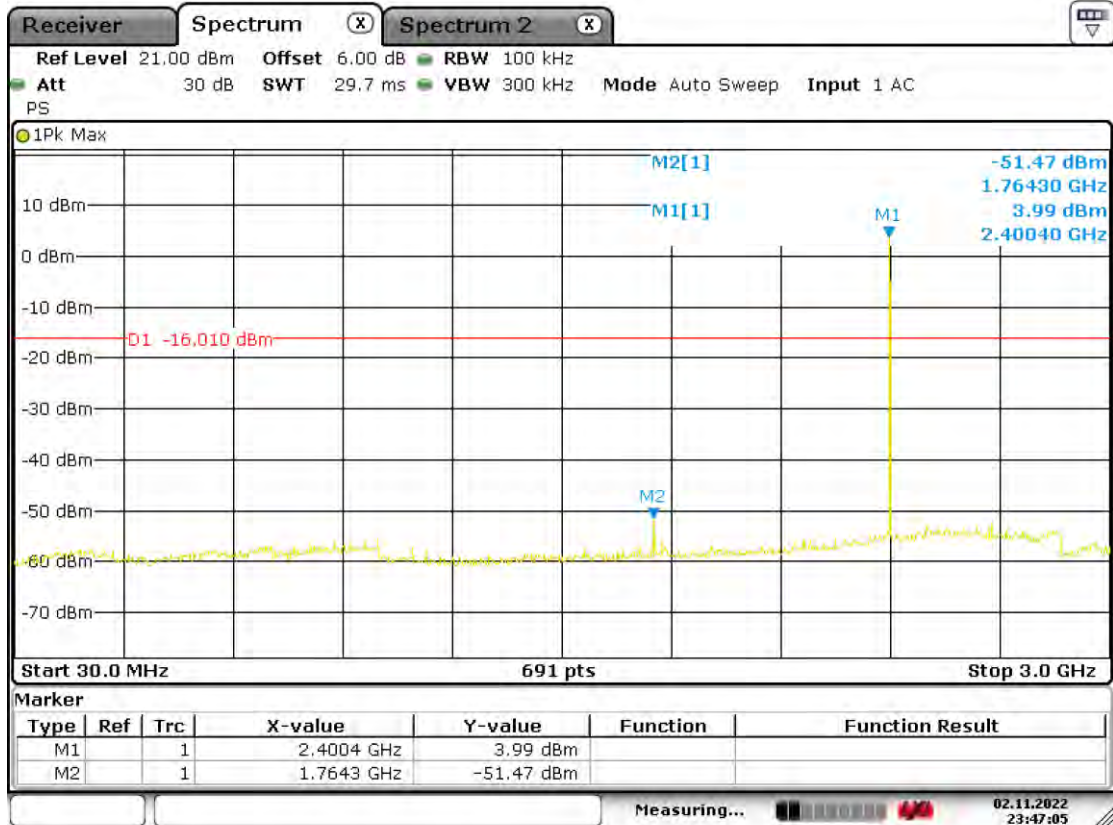
Date: 2.NOV.2022 23:13:30

2DH5_Ant1_2480_2000~26500



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



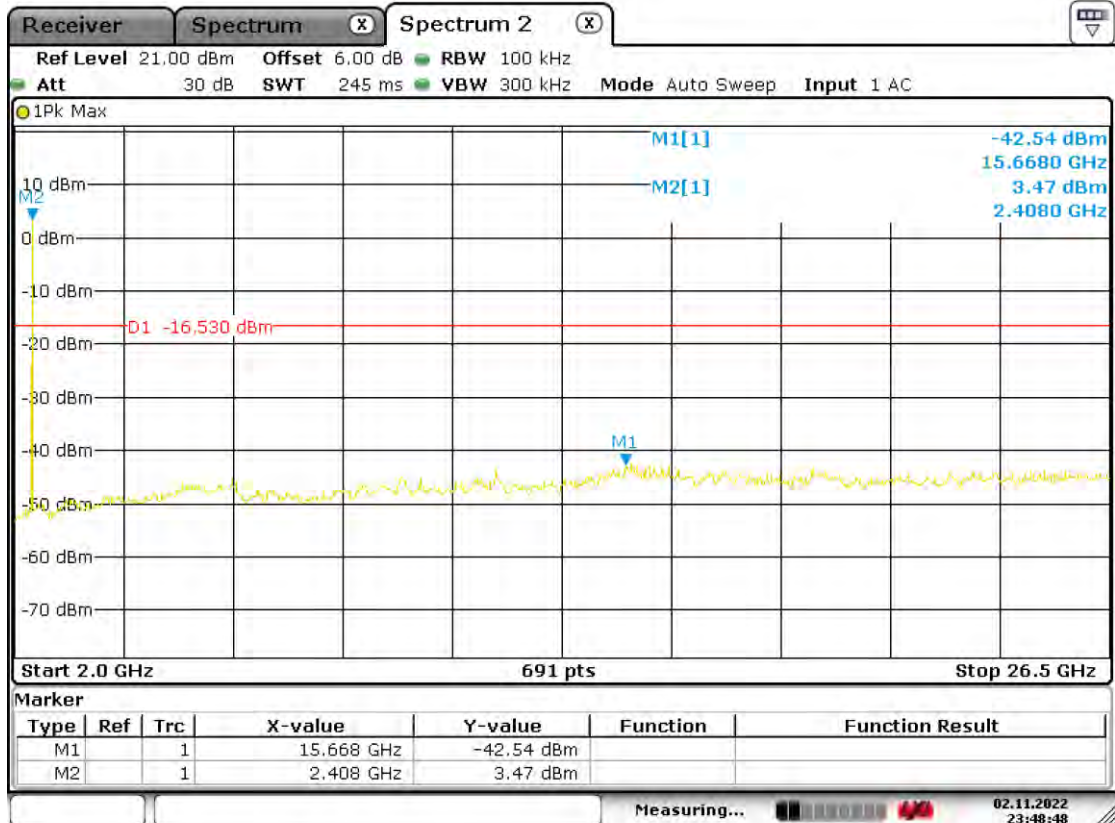
Date: 2.NOV.2022 23:47:05

3DH5_Ant1_2402_30~3000



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



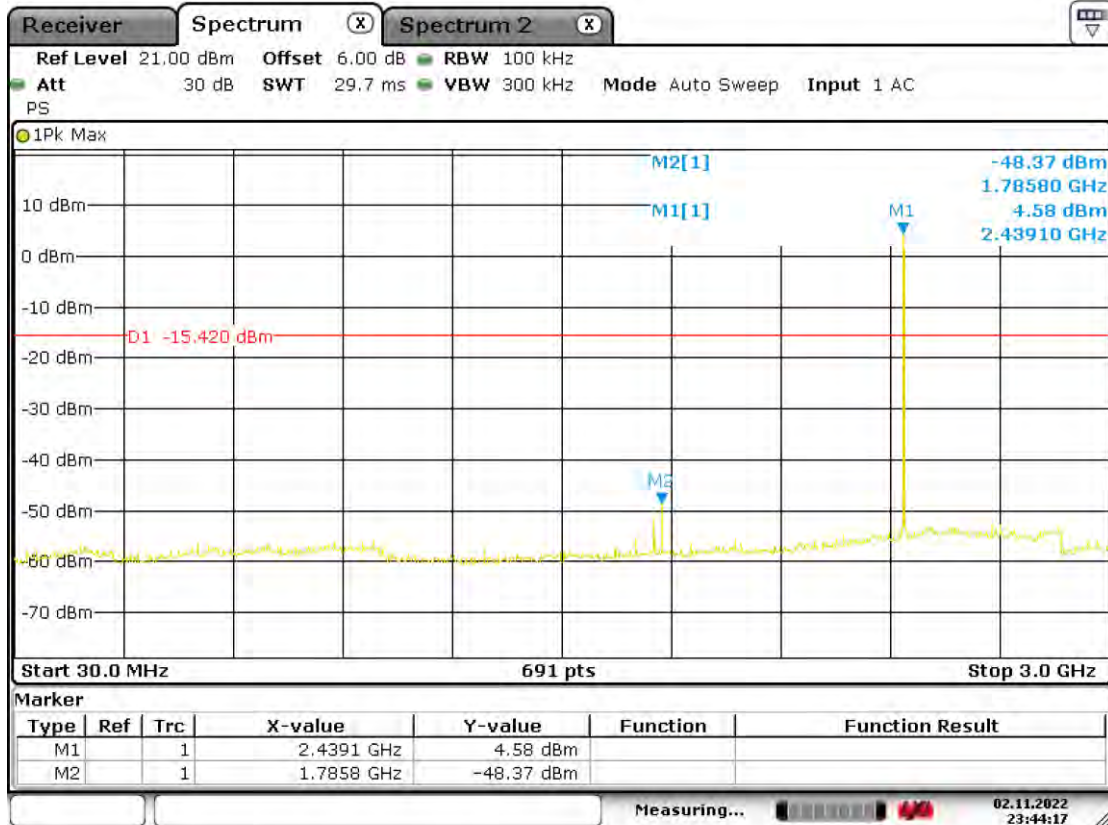
Date: 2.NOV.2022 23:48:48

3DH5_Ant1_2402_2000~26500



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



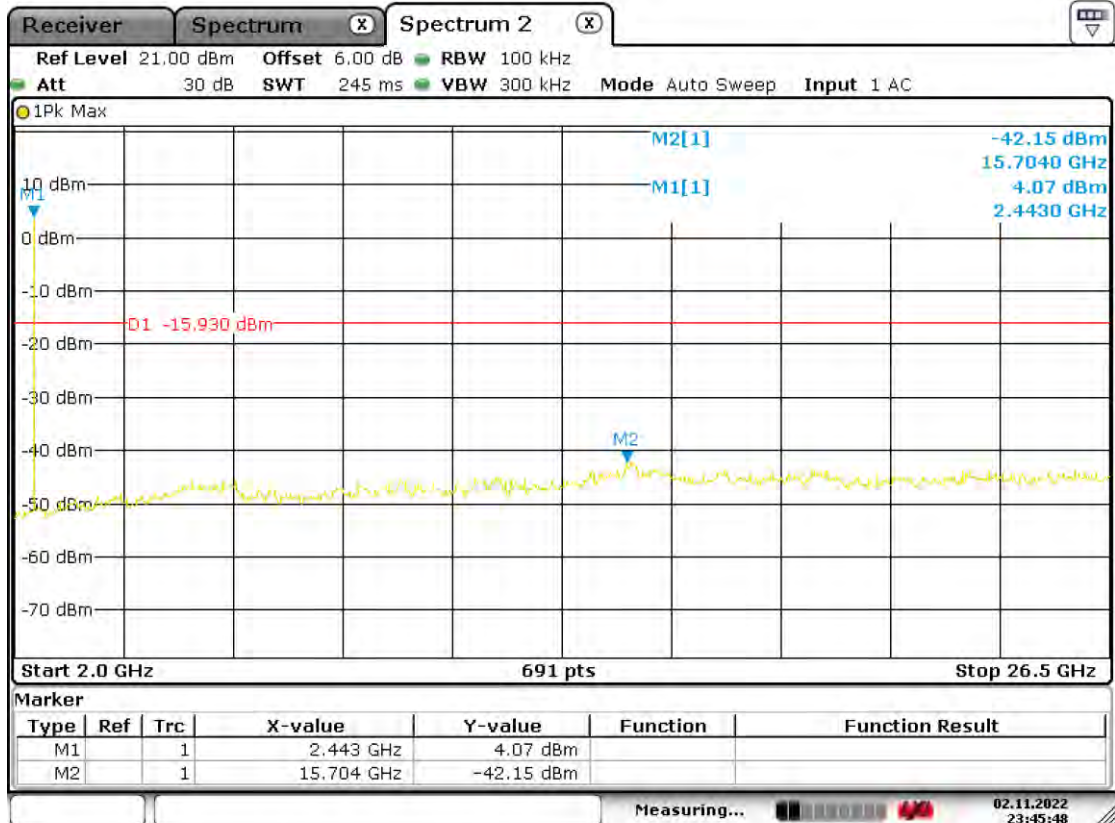
Date: 2.NOV.2022 23:44:17

3DH5_Ant1_2441_30~3000



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



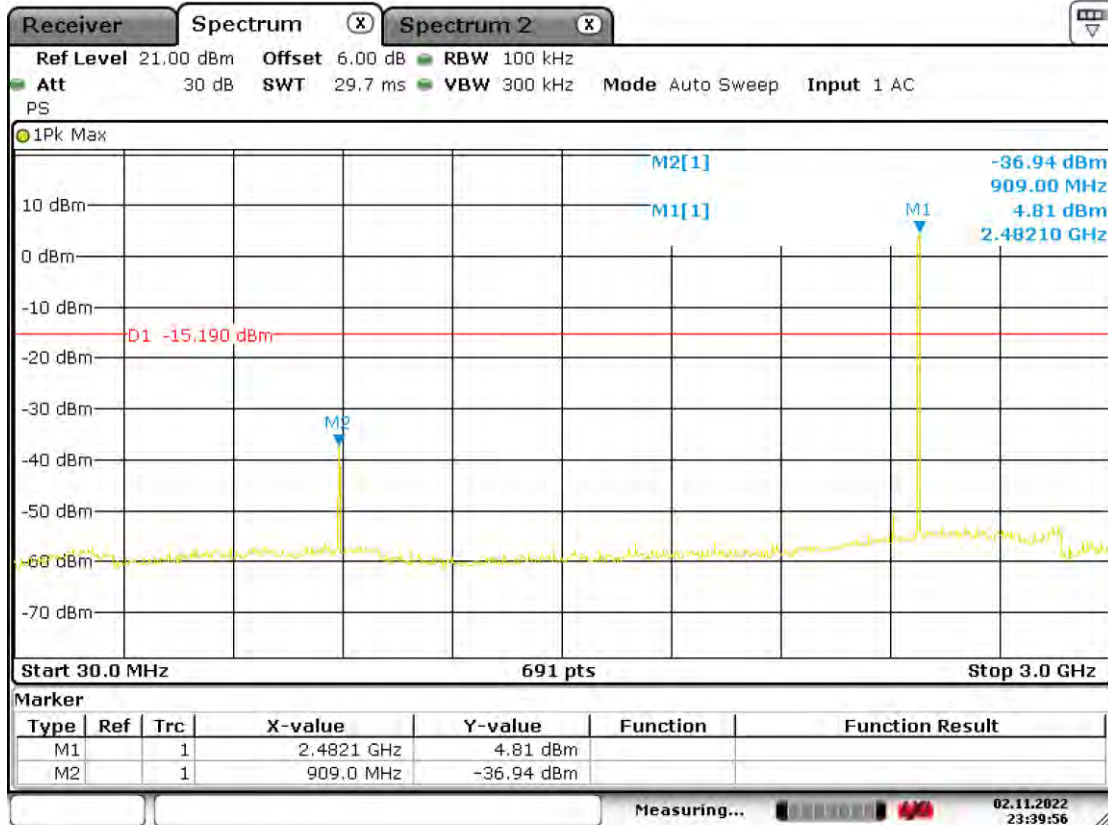
Date: 2.NOV.2022 23:45:47

3DH5_Ant1_2441_2000~26500



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



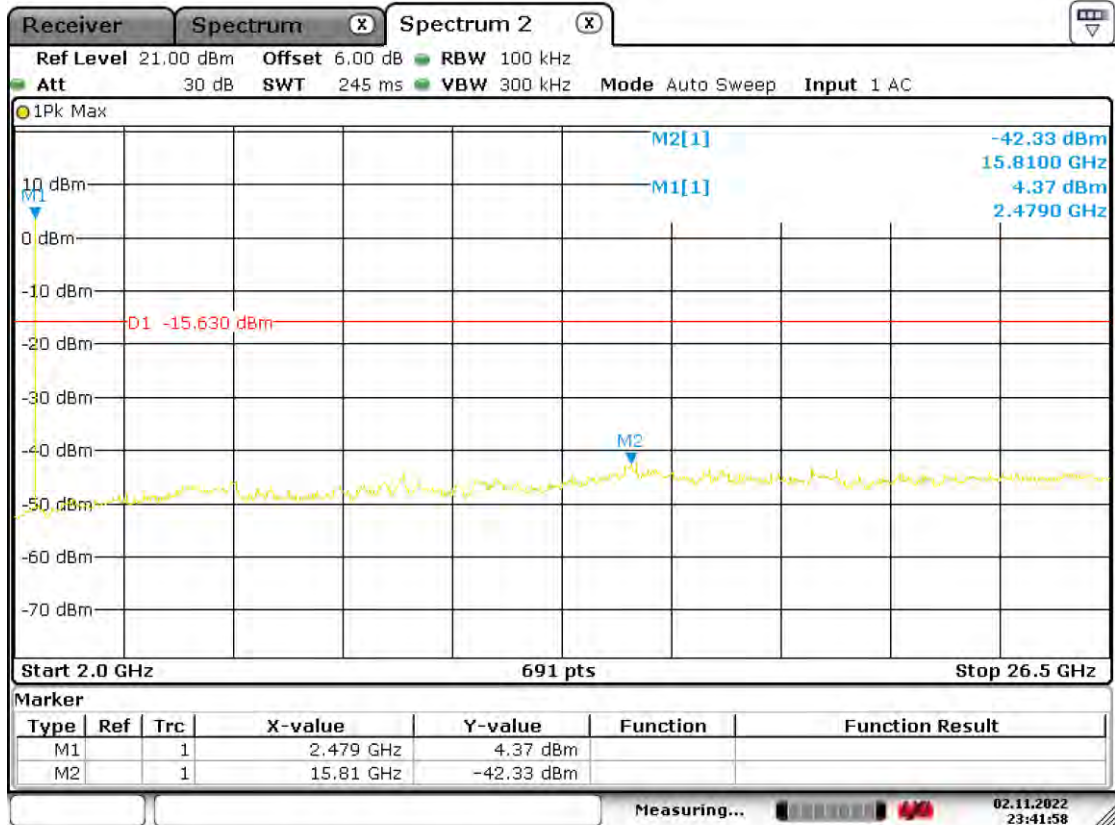
Date: 2.NOV.2022 23:39:56

3DH5_Ant1_2480_30~3000



BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



Date: 2.NOV.2022 23:41:58

3DH5_Ant1_2480_2000~26500



Test Report No.: W7L-P22090023RF01



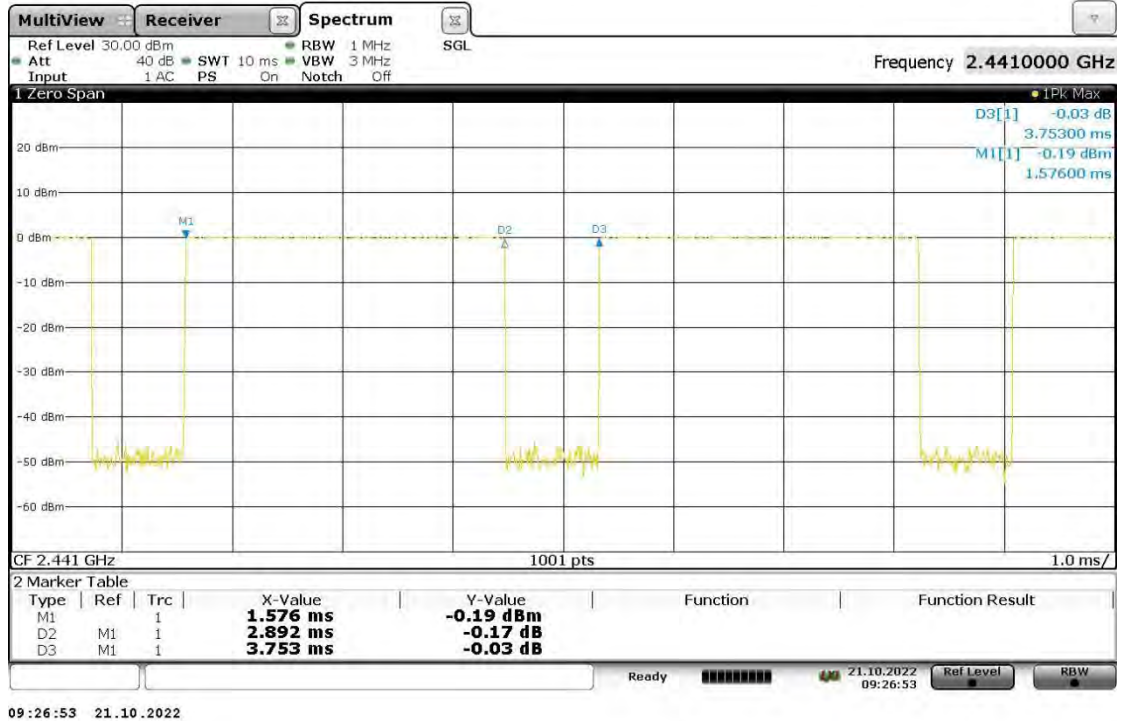
Test Report No.: W7L-P22090023RF01

DUTY CYCLE

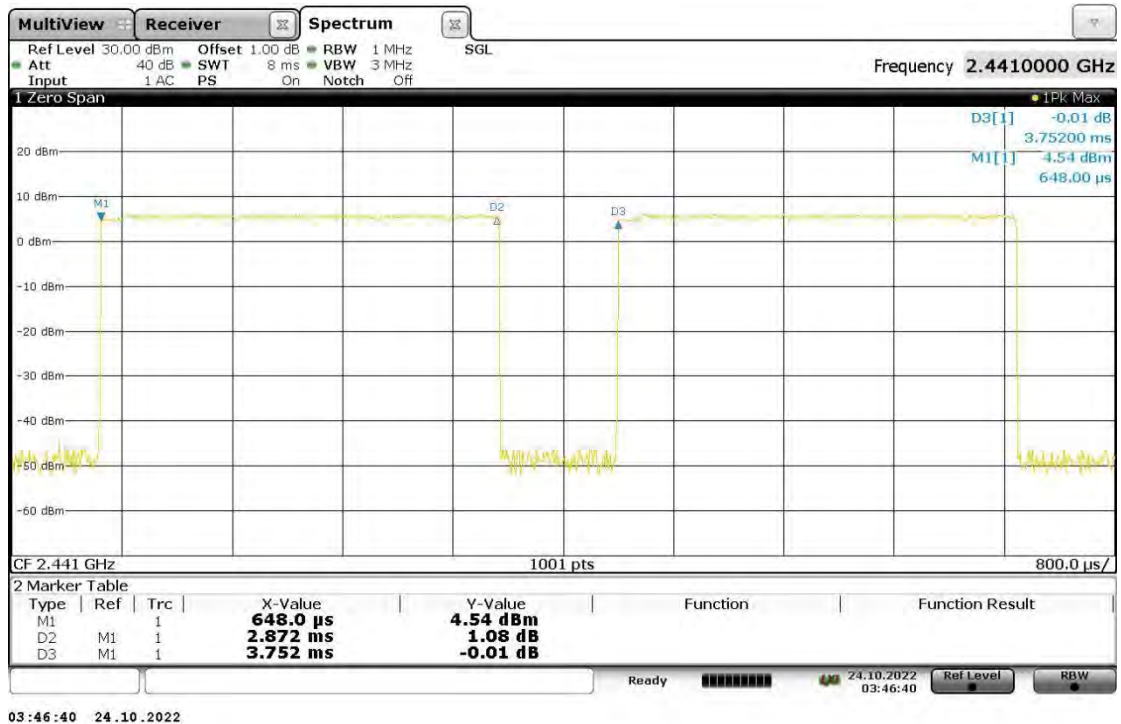
TEST RESULT

TestMode	Antenna	Channel	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
DH5	Ant1	2441	2.90	3.75	0.7733	77.10	1.13	---	PASS
2DH5	Ant1	2441	2.89	3.76	0.7686	76.55	1.16	---	PASS
3DH5	Ant1	2441	2.89	3.75	0.7707	76.70	1.15	---	PASS

TEST GRAPHS



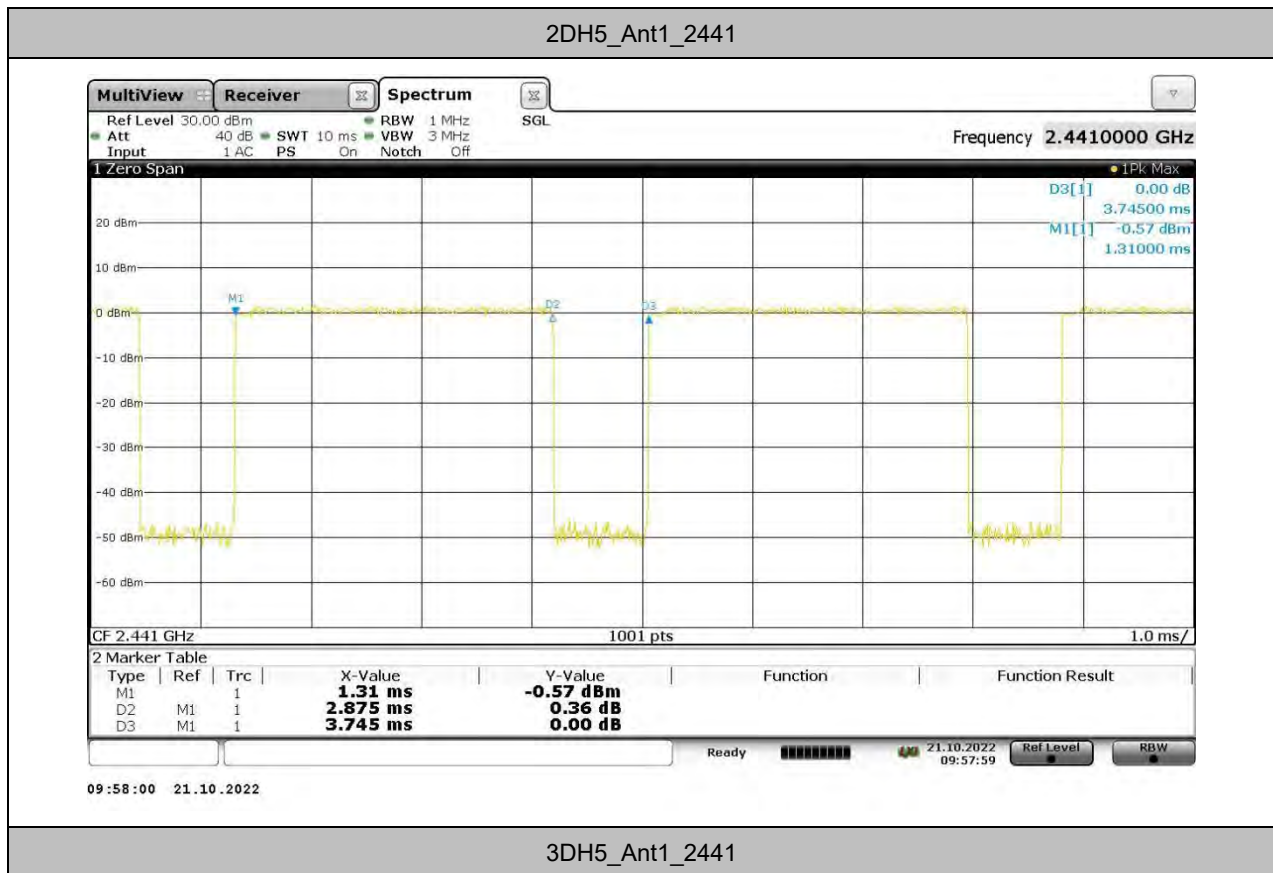
DH5_Ant1_2441





BUREAU
VERITAS

Test Report No.: W7L-P22090023RF01



--- END ---