

TEST REPORT



Report No.: TW2408133E
Applicant: RADIOSHACK WORLDWIDE CORP
Product: Dash Camera
Model No.: G309, 1606037
Trademark: N/A
Test Standards: FCC Part 15.247

Test Result: It is herewith confirmed and found to comply with the requirements set up by ANSI C63.10, FCC Part 15.247 for the evaluation of electromagnetic compatibility

Approved By

A handwritten signature in black ink that reads 'Terry Tang'.

Terry Tang

Manager

Dated: September 25, 2024

**Results appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject to withdrawal at**

SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

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1.0 General Details

1.1 Test Lab Details

Name : SHENZHEN TIMEWAY TESTING LABORATORIES.
Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China
Telephone: (755) 83448688
Fax: (755) 83442996
Site Listed with Federal Communications commission (FCC)
Registration Number:744189
For 3m Anechoic Chamber
Site Listed with Industry Canada of Ottawa, Canada
Registration Number: IC: 5205A
For 3m Anechoic Chamber

1.2 Applicant Details

Applicant: RADIOSHACK WORLDWIDE CORP
Address: Millennium Plaza, Nivel 18, Paseo General Escalón #3675, Col. Escalón, San Salvador, El Salvador.

1.3 Description of EUT

Product: Dash Camera
Manufacturer: SPRITE TECHNOLOGY LIMITED
Address: 4th Floor, A3 Building, Shenliang Industry Zone, NO.299 Guanping Road, Longhua District, Shenzhen, China 518110
Trademark: N/A
Model Number: G309
Additional Model Number: 1606037
Hardware Version: XF01-220-V2
Software Version: 20240402
Serial No.: 24G3090001-24G3091000
Type of Modulation IEEE 802.11b: DSSS (CCK, QPSK, DBPSK)
IEEE 802.11g/n (HT20, HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)
Frequency range IEEE 802.11b/g/n (HT20): 2412-2462MHz; 802.11n HT40: 2422-2452MHz
Channel Spacing 5MHz for IEEE 802.11b/g/n HT20, HT40
Air Data Rate IEEE 802.11b: 11, 5.5, 2, 1 Mbps
IEEE 802.11g: 54, 48,36, 24, 18, 12, 9, 6 Mbps
IEEE 802.11n HT20/HT40: mcs0-mcs9
Frequency Selection By software
Channel Number IEEE 802.11b/g/n (HT20): 11 Channels; IEEE 802.11n (HT40): 7 Channels;

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Antenna: Chip antenna with gain 3.8dBi maximum (Get from the antenna specification)
Rating: Input: DC5V, 2000mA

1.4 Submitted Sample: 2 Samples

1.5 Test Duration: 2024-08-14 to 2024-09-25

1.6 Test Uncertainty

Conducted Emissions Uncertainty =3.6dB

Radiated Emissions below 1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty =6.0dB

Occupied Channel Bandwidth Uncertainty =5%

Note: The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

1.7 Test Engineer

A handwritten signature in blue ink that reads "Andy Xing".

The sample tested by _____

Print Name: Andy Xing

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100253	2024-07-12	2025-07-11
Impuls-Begrenzer	R&S	ESH3-Z2	100281	2024-07-12	2025-07-11
Loop Antenna	EMCO	6507	00078608	2022-07-18	2025-07-17
Spectrum	R&S	FSIQ26	100292	2024-07-12	2025-07-11
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2022-07-18	2025-07-17
Horn Antenna	R&S	BBHA 9120D	9120D-631	2022-07-18	2025-07-17
Power meter	Anritsu	ML2487A	6K00003613	2024-07-12	2025-07-11
Power sensor	Anritsu	MA2491A	32263	2024-07-12	2025-07-11
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2022-07-18	2025-07-17
9*6*6 Anechoic	--	--	N/A	2022-07-26	2025-07-25
EMI Test Receiver	RS	ESVB	826156/011	2024-07-12	2025-07-11
EMI Test Receiver	RS	ESCS 30	834115/006	2024-07-12	2025-07-11
Spectrum	HP/Agilent	E4407B	MY50441392	2024-07-12	2025-07-11
Spectrum	RS	FSP	1164.4391.38	2024-07-12	2025-07-11
RF Cable	Zhengdi	ZT26-NJ-NJ-8M/FA	--	2024-07-12	2025-07-11
RF Cable	Zhengdi	7m	--	2024-07-12	2025-07-11
Pre-Amplifier	Schwarebeck	BBV9743	#218	2024-07-12	2025-07-11
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2024-07-12	2025-07-11
LISN	SCHAFFNER	NNB42	00012	2024-07-12	2025-07-11
ESPI Test Receiver	R&S	ESPI 3	100379	2024-07-12	2025-07-11
LISN	R&S	EZH3-Z5	100294	2024-07-12	2025-07-11

2.2 Automation Test Software

For Conducted Emission Test

Name	Version
EZ-EMC	Ver.EMC-CON 3A1.1

For Radiated Emissions

Name	Version
EMI Test Software BL410-EV18.91	V18.905
EMI Test Software BL410-EV18.806 High Frequency	V18.06

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3. Description of Test Modes

IEEE 802.11b, 802.11g, 802.11n (HT20) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2412
Middle	2437
High	2462

IEEE 802.11b mode: 1Mbps data rate (worst case) was chosen for full testing. IEEE 802.11g mode: 6Mbps data rate (worst case) was chosen for full testing. IEEE 802.11n (HT20) mode: mcs0 (worst case) were chosen for full testing

IEEE 802.11n (HT40) mode

The EUT had been tested under operating condition. There are three channels have been tested as following:

Channel	Frequency (MHz)
Low	2422
Middle	2437
High	2452

IEEE 802.11n (HT40) mode: mcs0 data rate (worst case) were chosen for full testing

Note: during the test, the duty cycle was set up to 100%.

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3.0 Technical Details

3.1 Summary of test results

The EUT has been tested according to the following specifications:			
Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.107 & 15.207	Conducted Emission Test	N/A	N/A
FCC Part 15 Subpart C Paragraph 15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	Pass	Complies
FCC Part 15, Paragraph 15.247(b)	Maximum peak output power Limit: max. 30dBm	Pass	Complies
FCC Part 15, Paragraph 15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	Pass	Complies
FCC Part 15, Paragraph 15.247(e)	Power Spectral Density Limit: max. 8dBm	Pass	Complies
FCC Part 15, Paragraph 15.247(d)	Out of Band Emission and Restricted Band Radiation Limit: 20dB less than peak value of fundamental frequency Restricted band limit: Table 15.209	Pass	Complies

3.2 Test Standards

FCC Part 15 Subpart & Subpart C, Paragraph 15.247

4.0 EUT Modification

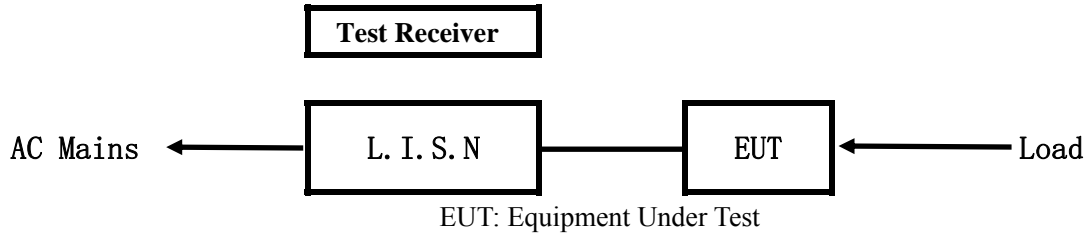
No modification by SHENZHEN TIMEWAY TESTING LABORATORIES.

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5.0 Power Line Conducted Emission Test

5.1 Schematics of the test

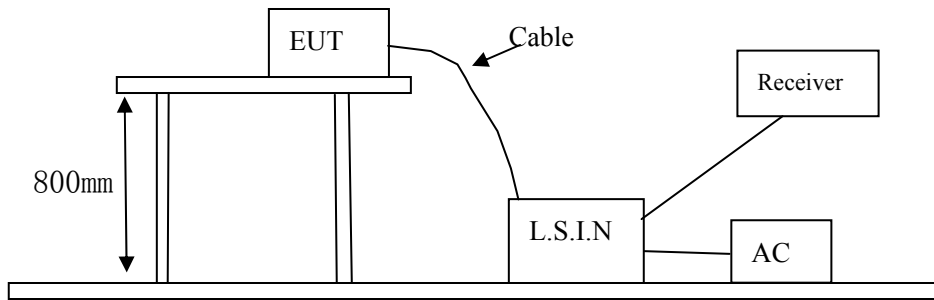


5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.10-2013. The Frequency spectrum from 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.10 –2013.

Test Voltage: N/A

Block diagram of Test setup



5.3 Configuration of the EUT

The EUT was configured according to ANSI C63.10-2013. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

A. EUT

Device	Manufacturer	Model	FCC ID
Dash Camera	SPRITE TECHNOLOGY LIMITED	G309, 1606037	2BDUR-1606037

B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

C. Peripherals

Device	Manufacturer	Model	Rating
N/A			

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5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10-2013.

A Setup the EUT and simulators as shown on follow

B Enable AF signal and confirm EUT active to normal condition

5.5 Power line conducted Emission Limit according to Paragraph 15.207

Frequency (MHz)	Limits (dB μ V)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66.0~56.0*	56.0~46.0*
0.50 ~ 5.00	56.0	46.0
5.00 ~ 30.00	60.0	50.0

- Notes:
1. *Decreasing linearly with logarithm of frequency.
 2. The tighter limit shall apply at the transition frequencies

5.6 Test Results

N/A

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz.

Note: EUT used in a vehicle, this test item not applicable.



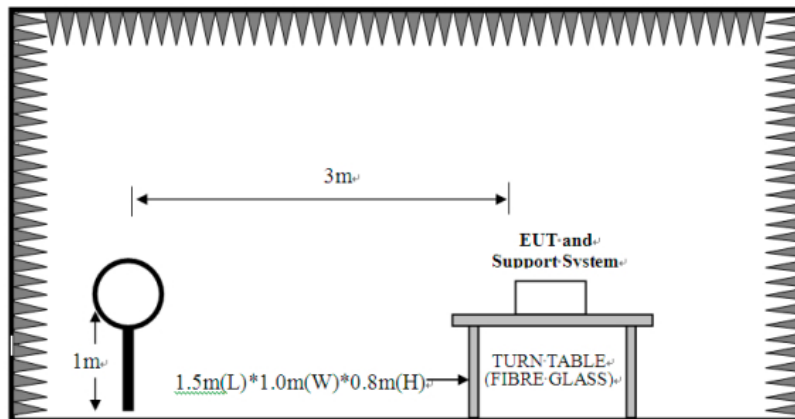
6 Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at Timeway EMC Laboratory. This site is on file with the FCC laboratory division, Registration No. 744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 30 MHz to 25 GHz was investigated. All readings from 30 MHz to 1 GHz are Quasi-peak values with a resolution bandwidth of 120 kHz. For measurement above 1GHz, peak values with RBW=1MHz VBW=3MHz and PK detector. AV value with RBW=1MHz, VBW=3MHz and RMS detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

Block diagram of Test setup

For radiated emissions from 9kHz to 30MHz



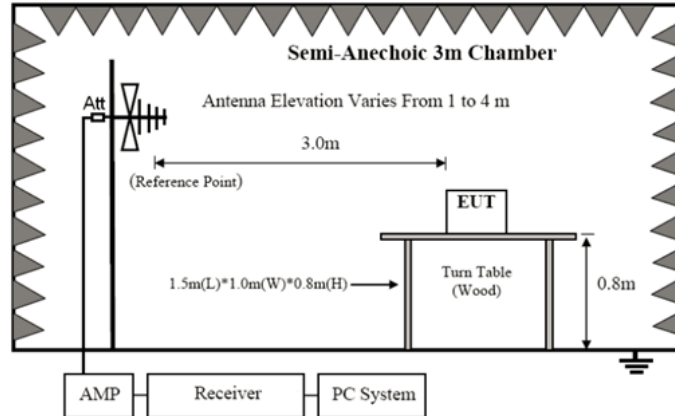
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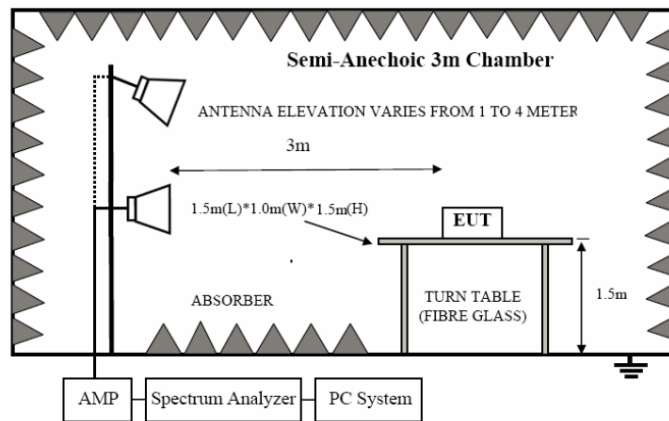
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For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



6.2 Configuration of the EUT

Same as section 5.3 of this report

6.3 EUT Operating Condition

Same as section 5.4 of this report.

6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

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Frequencies in restricted band are complied to limit on Paragraph 15.209

Frequency Range (MHz)	Distance (m)	Field strength (dB μ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

- Note:
1. RF Voltage (dBuV) = 20 log RF Voltage (uV)
 2. In the Above Table, the higher limit applies at the band edges.
 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
 4. **Worse case were recorded in the test report. 802.11b was the worst case.**

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Test result

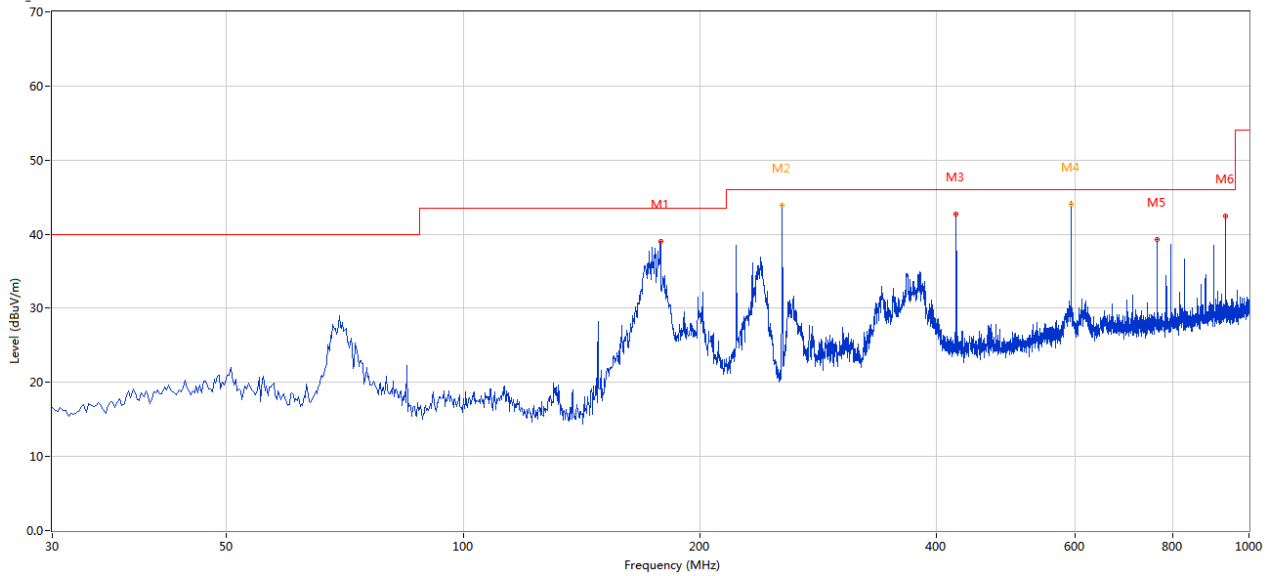
General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**

Results: **Pass**

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	178.373	39.02	-15.46	43.5	4.48	Peak	247.00	100	Horizontal	Pass
2*	254.571	43.94	-11.96	46.0	2.06	QP	348.00	106	Horizontal	Pass
3	424.206	42.71	-8.16	46.0	3.29	Peak	167.00	100	Horizontal	Pass
4*	593.914	44.09	-5.25	46.0	1.91	QP	231.00	100	Horizontal	Pass
5	763.622	39.34	-3.27	46.0	6.66	Peak	346.00	100	Horizontal	Pass
6	933.329	42.45	-1.77	46.0	3.55	Peak	165.00	100	Horizontal	Pass

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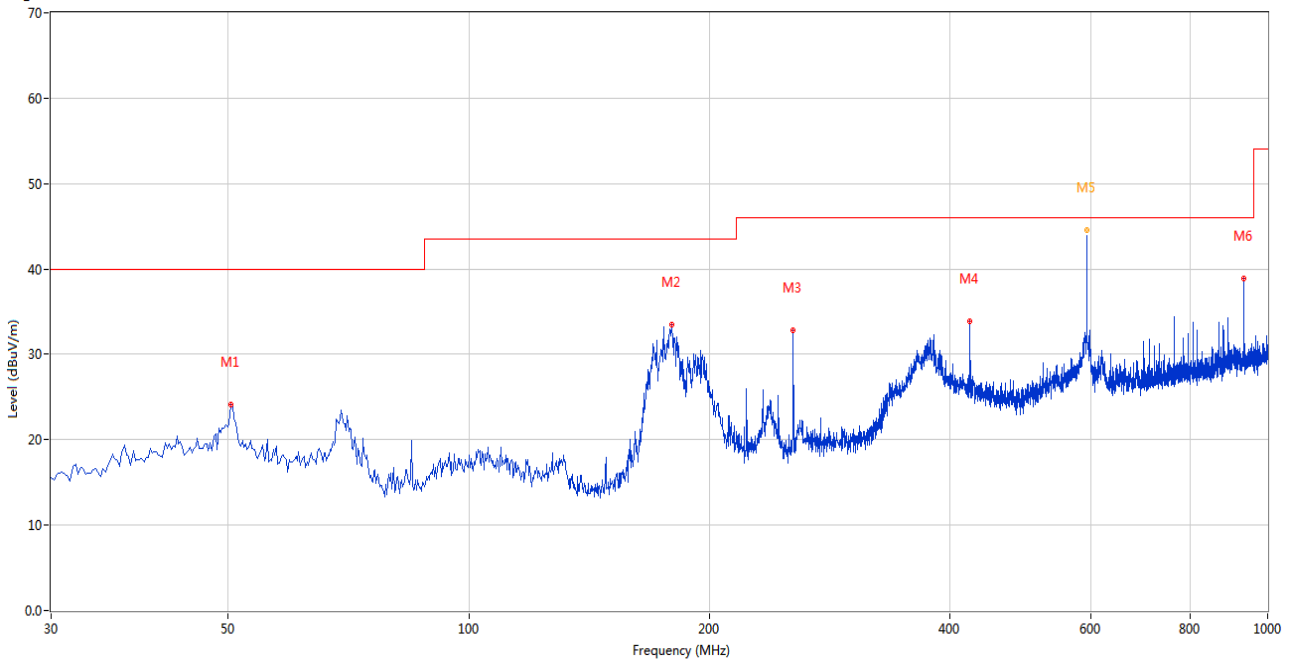
Test result

General Radiated Emission Data and Harmonics Radiated Emission Data

Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: **Keep Transmitting**
 Results: **Pass**

FCC_FCC Part 15C Class B 30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	50.365	24.16	-11.39	40.0	15.84	Peak	298.00	100	Vertical	Pass
2	179.343	33.52	-15.38	43.5	9.98	Peak	34.00	100	Vertical	Pass
3	254.741	32.84	-11.92	46.0	13.16	Peak	278.00	100	Vertical	Pass
4	424.206	33.85	-8.16	46.0	12.15	Peak	285.00	100	Vertical	Pass
5*	594.000	44.52	-5.26	46.0	1.48	QP	6.00	101	Vertical	Pass
6	933.329	38.88	-1.77	46.0	7.12	Peak	53.00	100	Vertical	Pass

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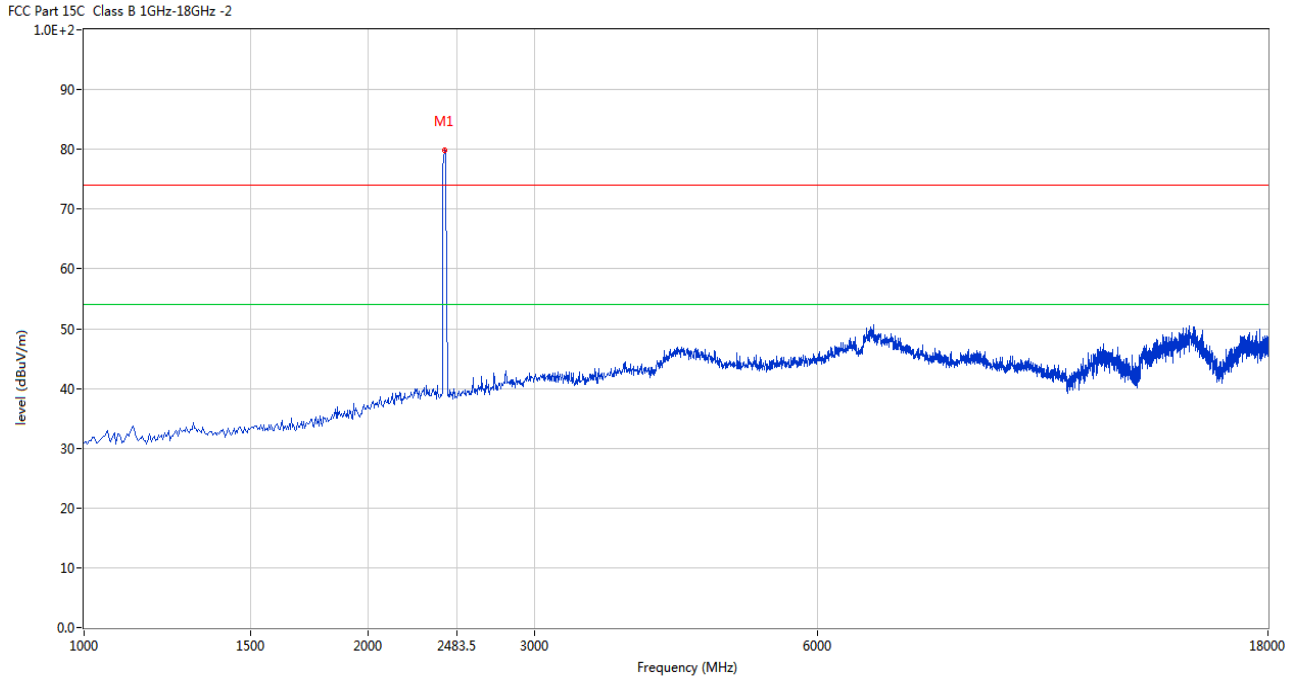
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Please refer to the following test plots for details:

CH01 for 11b at 1Mbps: Horizontal



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detect or	Table (o)	Height (cm)	ANT	Verdict
1	2410.647	79.77	-3.57	74.0	5.77	Peak	283.00	100	Horizontal	N/A

The report refers only to the sample tested and does not apply to the bulk.

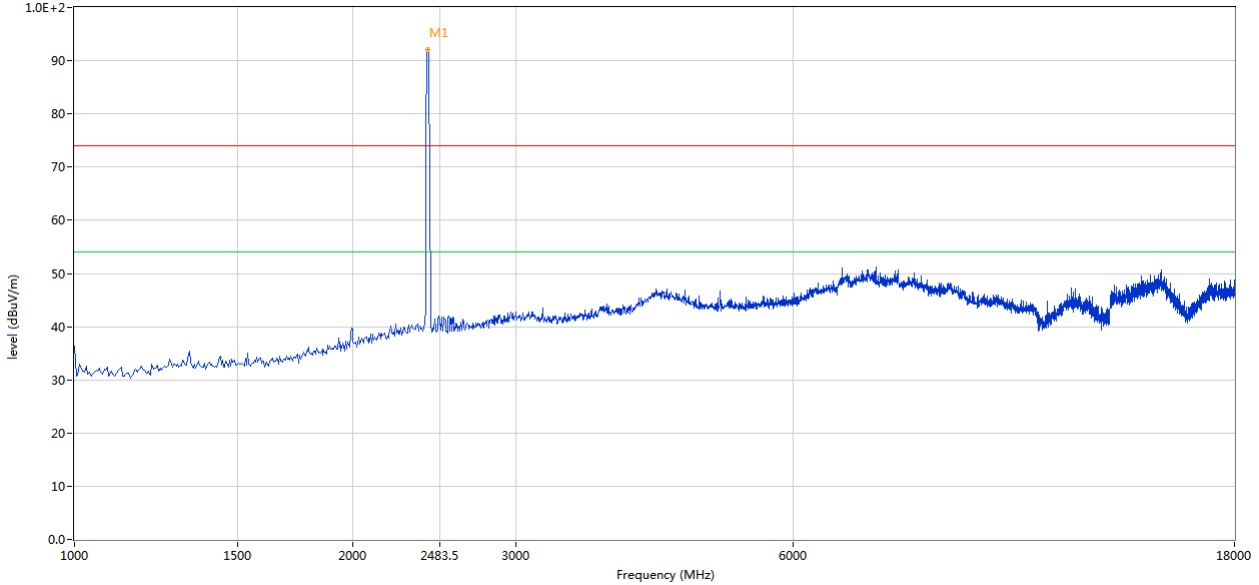
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CH01 for 11b at 1Mbps: Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2410.647	92.08	-3.57	74.0	18.08	Peak	290.00	100	Vertical	N/A

The report refers only to the sample tested and does not apply to the bulk.

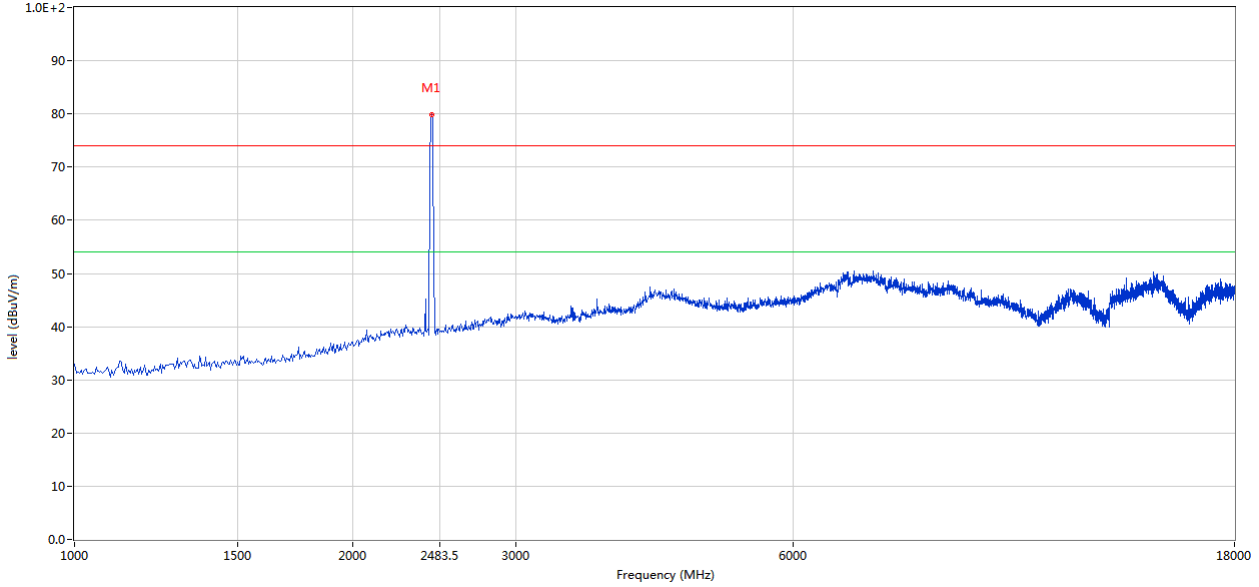
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CH06 for 11b at 1Mbps: Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2436.141	79.87	-3.57	74.0	5.87	Peak	286.00	100	Horizontal	N/A

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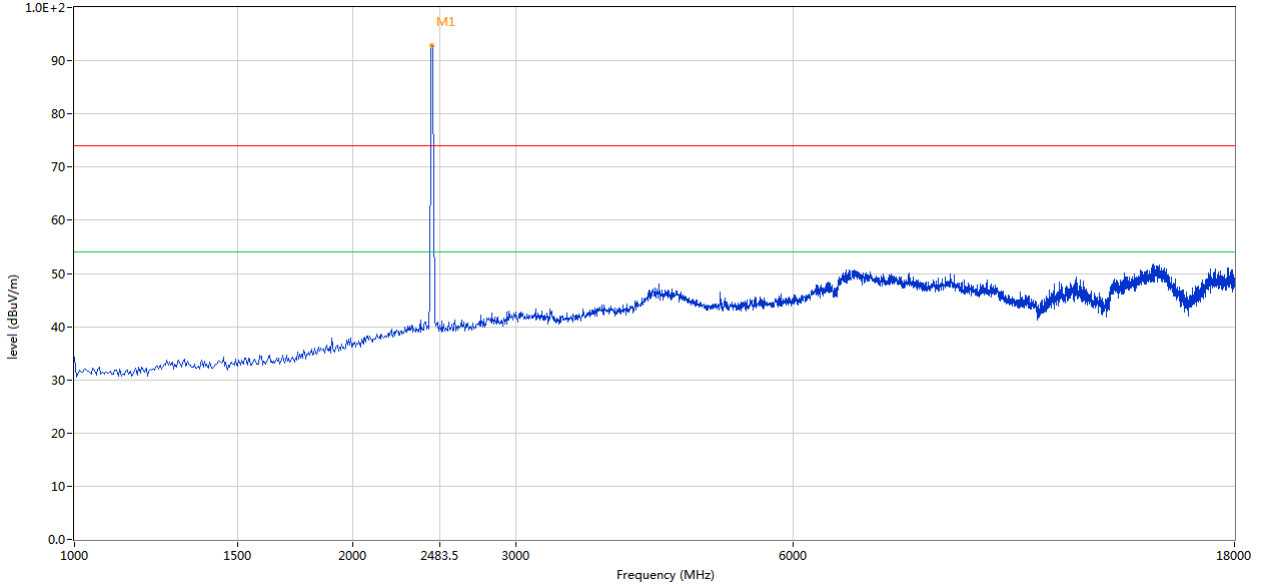
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CH06 for 11b at 1Mbps: Vertical

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2436.141	92.75	-3.57	74.0	18.75	Peak	222.00	100	Vertical	N/A

The report refers only to the sample tested and does not apply to the bulk.

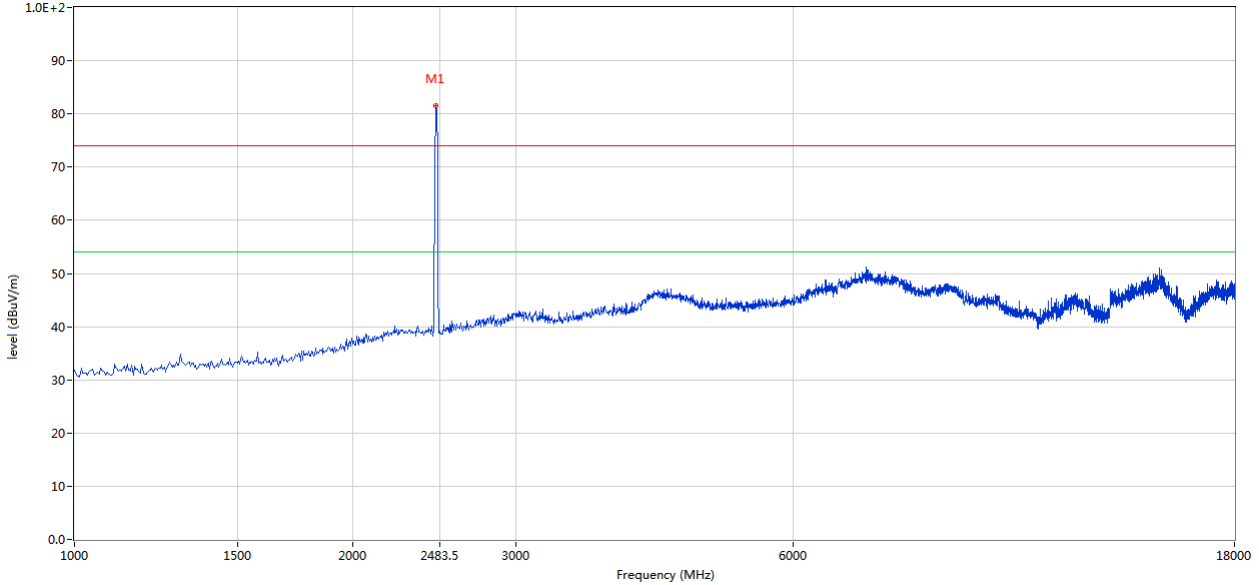
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CH11 for 11b at 1Mbps: Horizontal

FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2461.635	81.50	-3.57	74.0	7.50	Peak	231.00	100	Horizontal	N/A

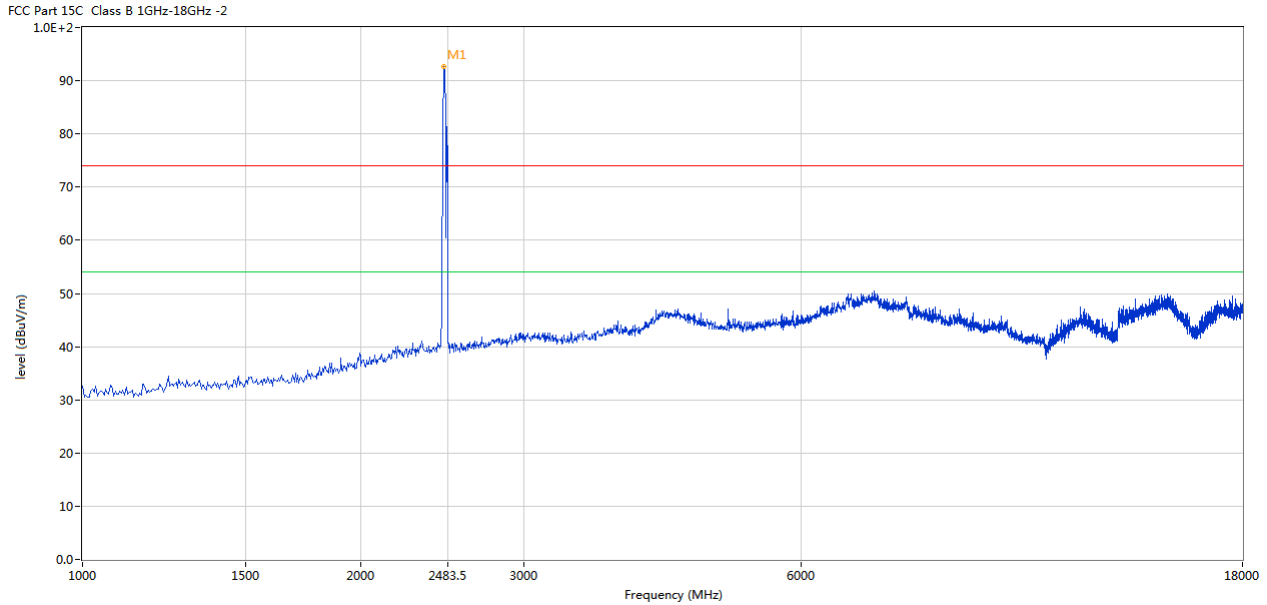
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CH11 for 11b at 1Mbps: Vertical



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2461.635	92.69	-3.57	74.0	18.69	Peak	296.00	100	Vertical	N/A

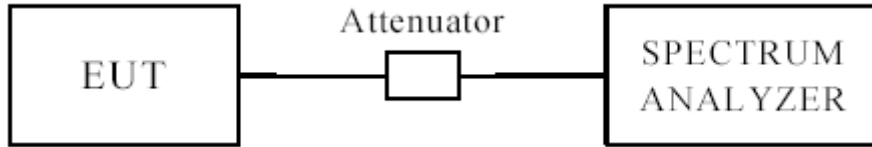
- Note: 1. Result Level = Reading + Factor
 2. Factor= AF + Cable Loss- Preamp
 3. Margin = Result– Limit
 4. For radiated Emissions from 18-25GHz and below 30MHz, it is only the floor noise.

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7.0 6dB Bandwidth Measurement

7.1 Test Setup



7.2 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 Test Result

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6dB Occupied Bandwidth

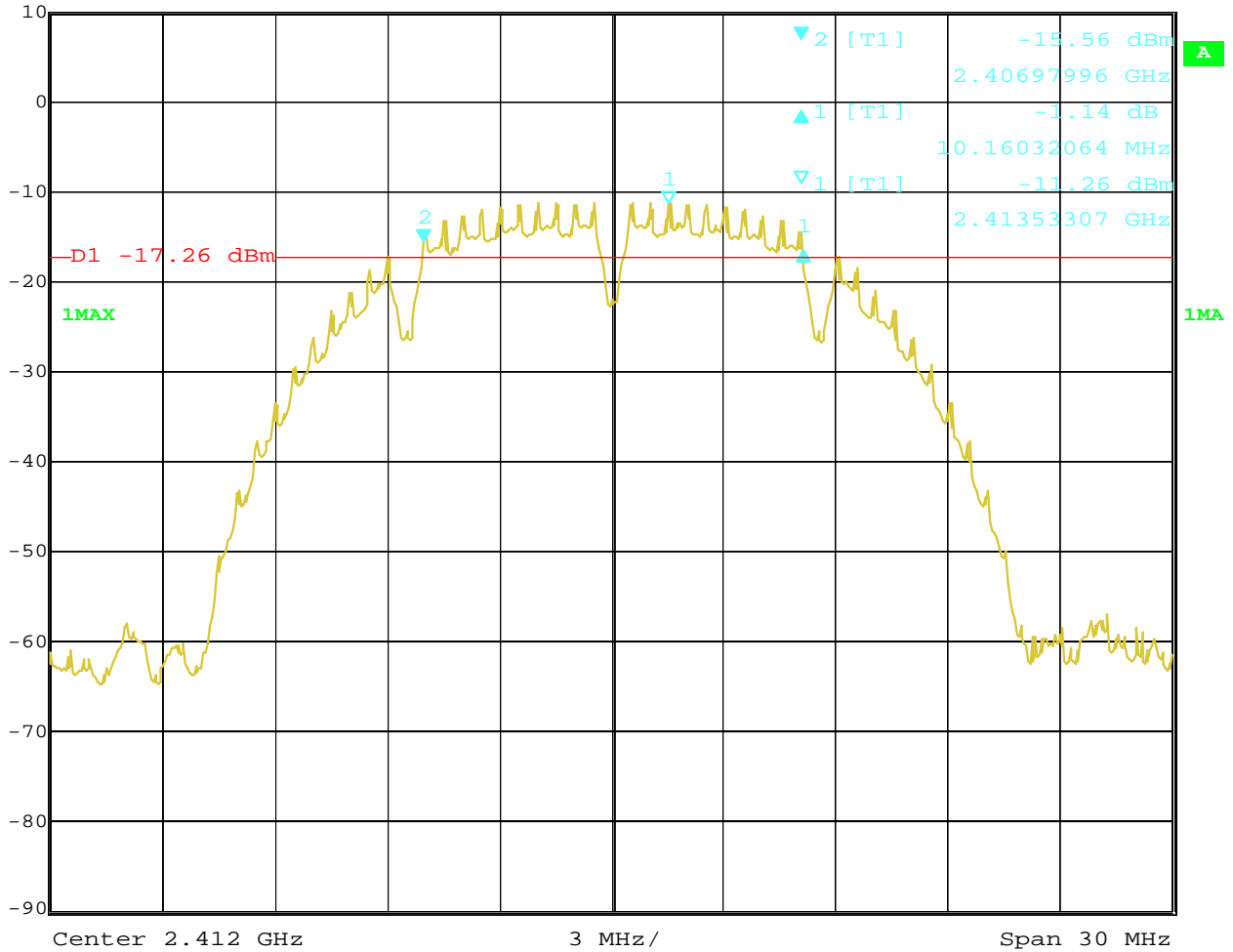
EUT		Dash Camera		Model	G309
Mode		802.11b		Input Voltage	DC5V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	1	10.16	0.5	Pass
6	2437	1	10.16	0.5	Pass
11	2462	1	10.16	0.5	Pass
1	2412	11	11.30	0.5	Pass
6	2437	11	11.30	0.5	Pass
11	2462	11	11.30	0.5	Pass

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1. 802.11b at 1Mbps of CH01

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	-1.14 dB	VBW	300 kHz	
	10 dBm	10.16032064 MHz	SWT	7.5 ms	Unit dBm



Date: 20.AUG.2024 14:52:20

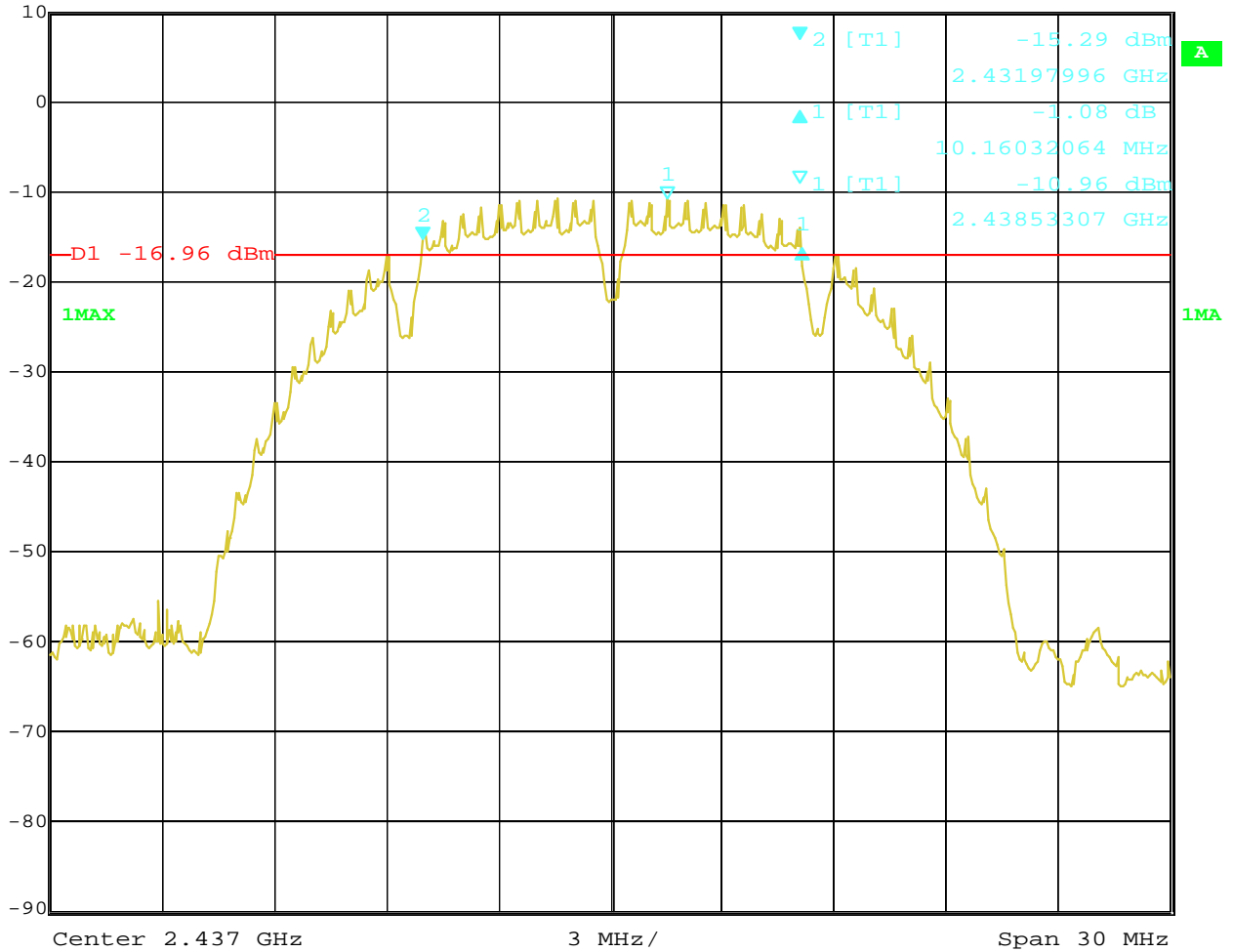
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2. 802.11b at 1Mbps of CH06



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	-1.08 dB	VBW	300 kHz	Unit	dBm
	10.16032064 MHz	SWT	7.5 ms		



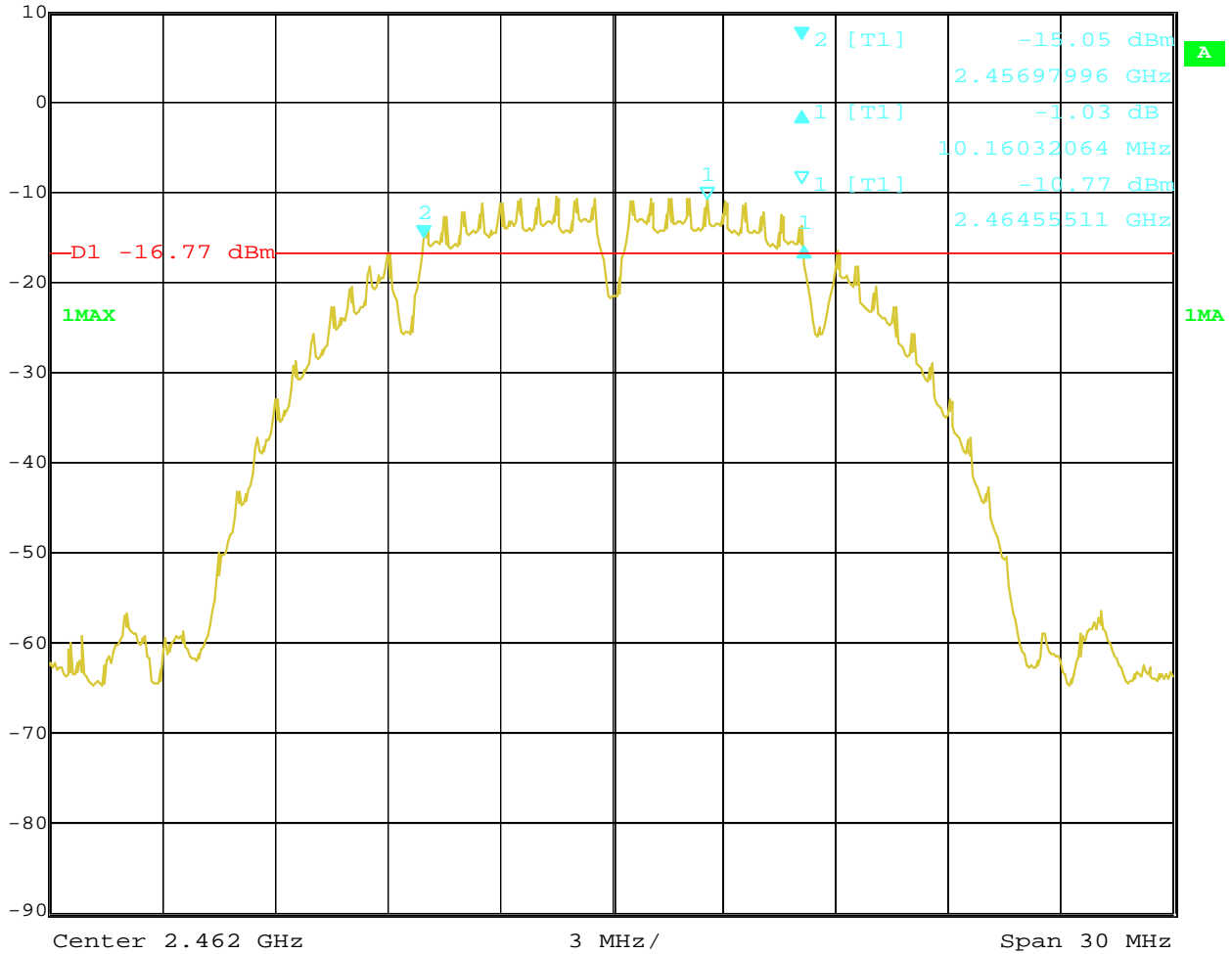
Date: 20.AUG.2024 14:49:18

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3. 802.11b at 1Mbps of CH11

RS	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	VBW	300 kHz	Unit	dBm
	10 dBm	SWT	7.5 ms		



Date: 20.AUG.2024 14:47:04

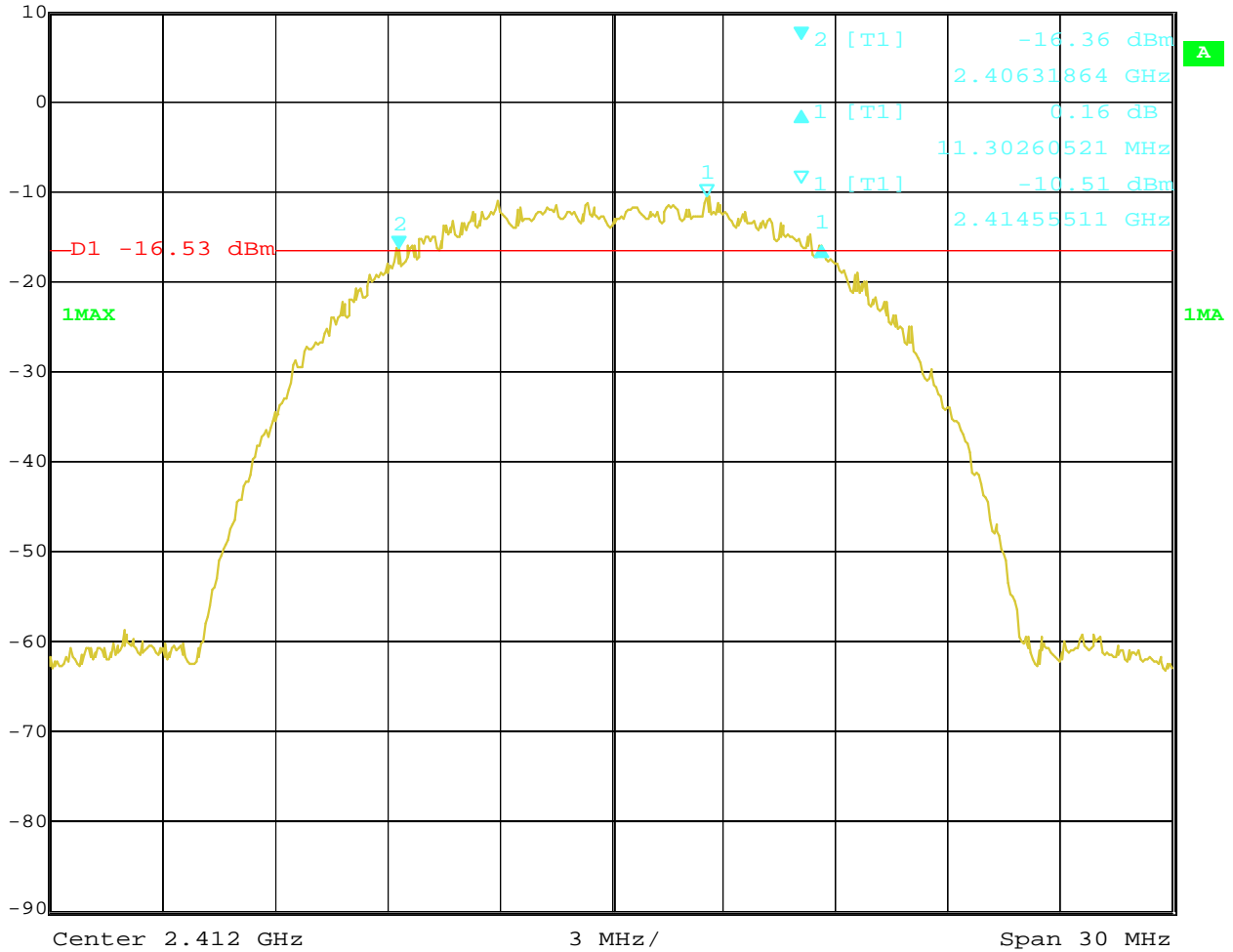
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4. 802.11b at 11Mbps of CH01



Ref Lvl	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
10 dBm	0.16 dB	VBW	300 kHz	Unit	dBm
	11.30260521 MHz	SWT	7.5 ms		



Date: 20.AUG.2024 15:18:37

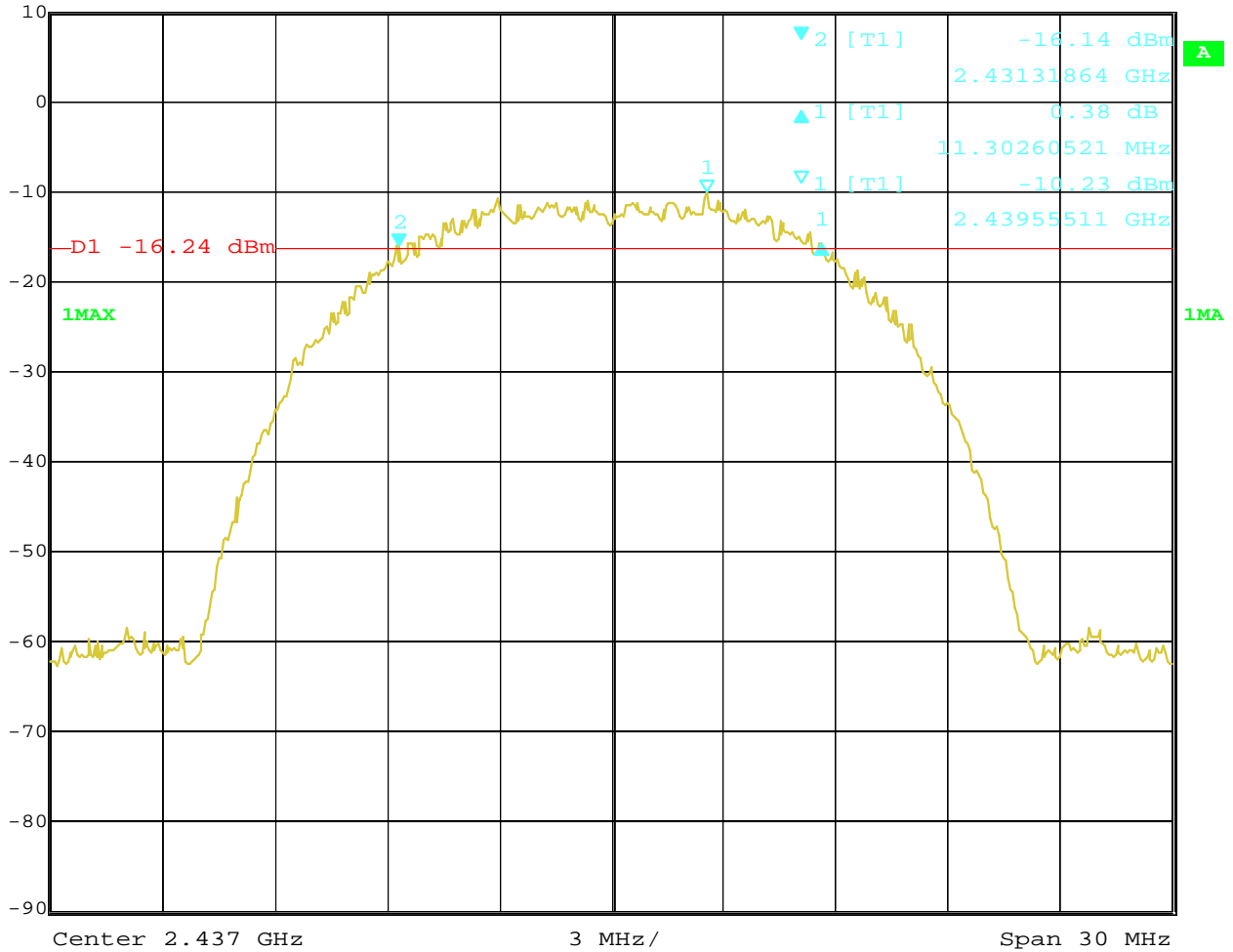
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5. 802.11b at 11Mbps of CH06



	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.38 dB	VBW	300 kHz		
10 dBm	11.30260521 MHz	SWT	7.5 ms	Unit	dBm



Date: 20.AUG.2024 15:15:26

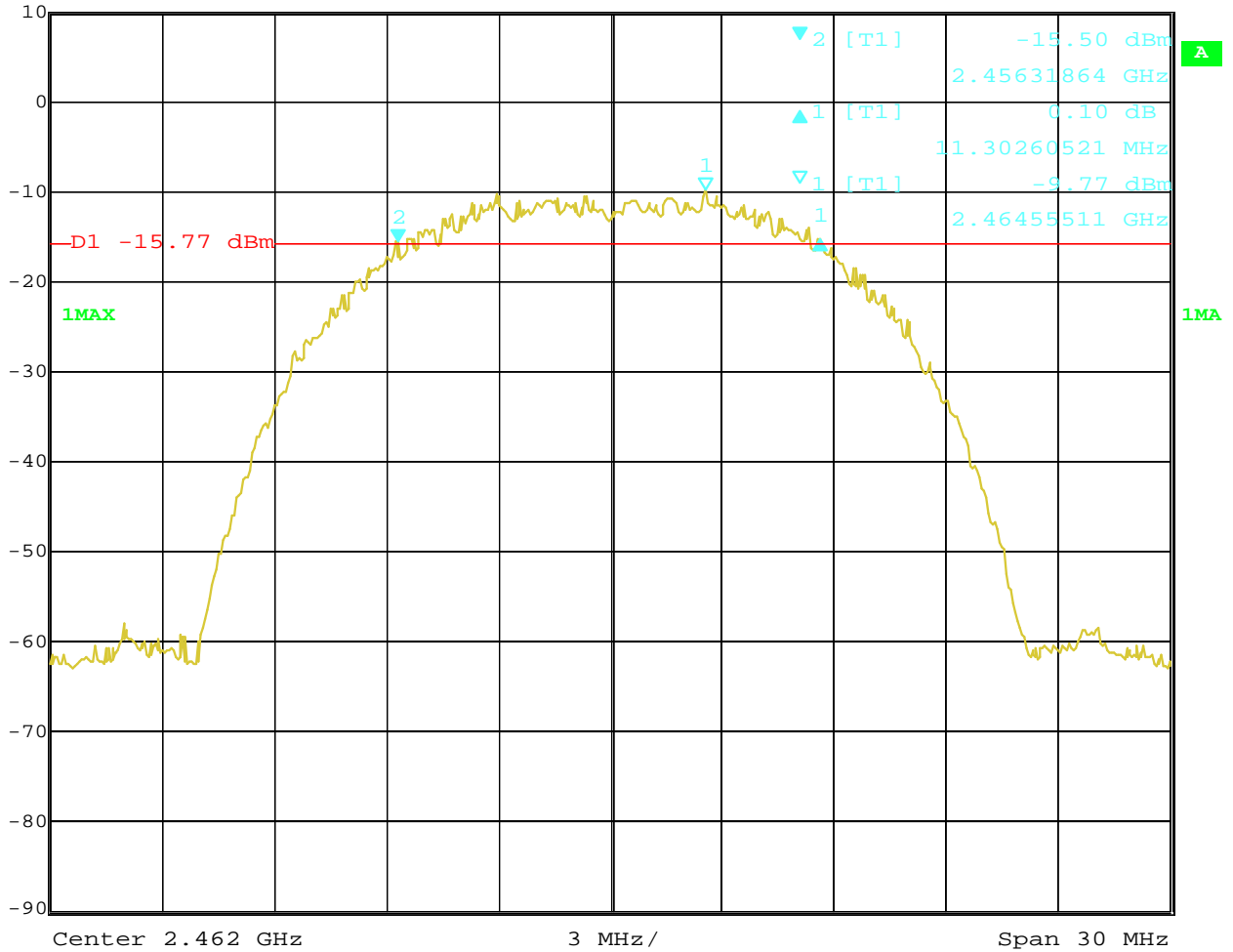
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6. 802.11b at 11Mbps of CH11



	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.10 dB	VBW	300 kHz		
10 dBm	11.30260521 MHz	SWT	7.5 ms	Unit	dBm



Date: 20.AUG.2024 15:11:24

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6dB Occupied Bandwidth

EUT		Dash Camera		Model		G309	
Mode		802.11g		Input Voltage		DC5V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail		
1	2412	6	16.29	0.5	Pass		
6	2437	6	16.29	0.5	Pass		
11	2462	6	16.29	0.5	Pass		

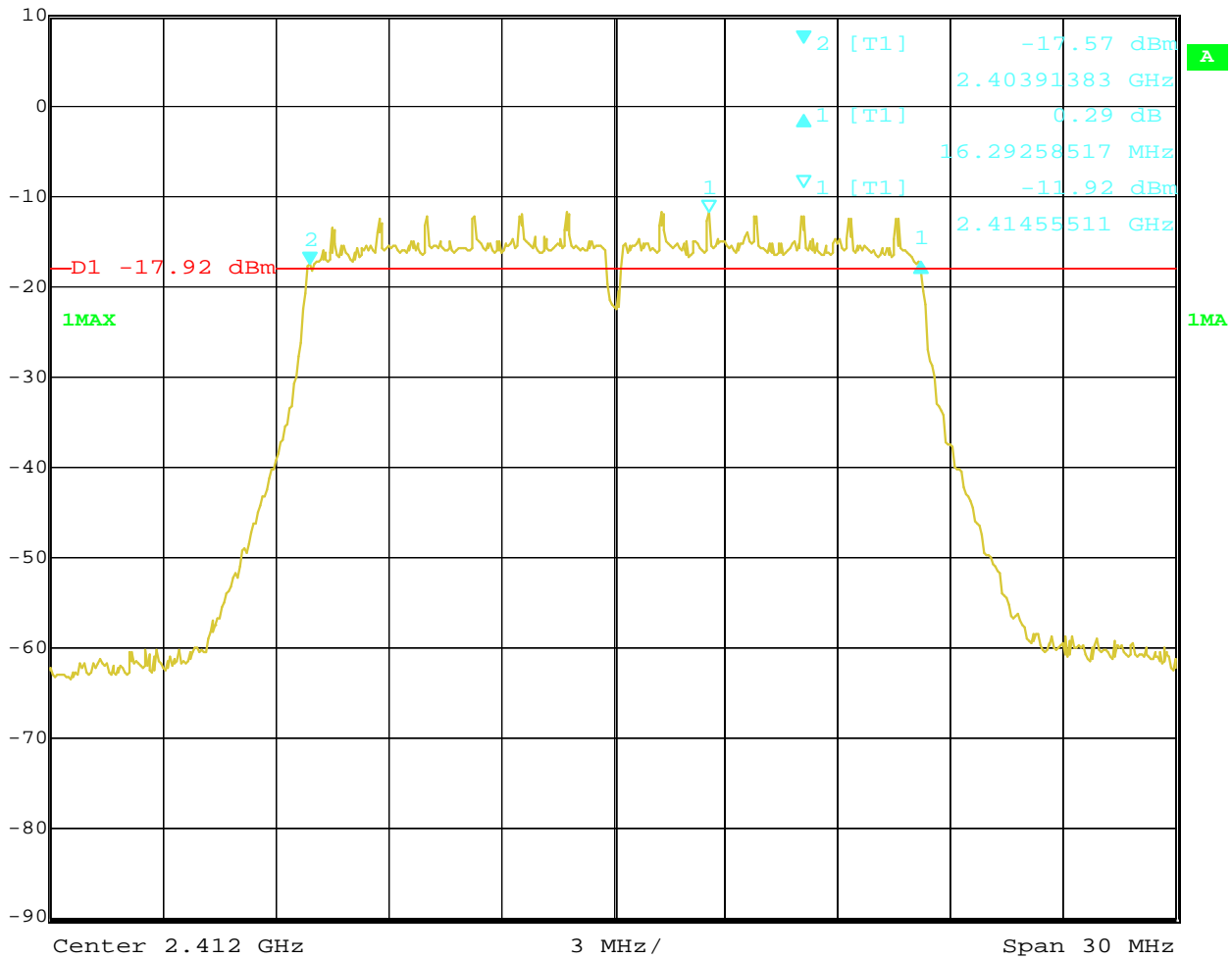
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Test Plots:

1. 802.11g at 6Mbps of CH01

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	0.29 dB	VBW	300 kHz	
	10 dBm	16.29258517 MHz	SWT	7.5 ms	Unit



Date: 20.AUG.2024 15:55:08

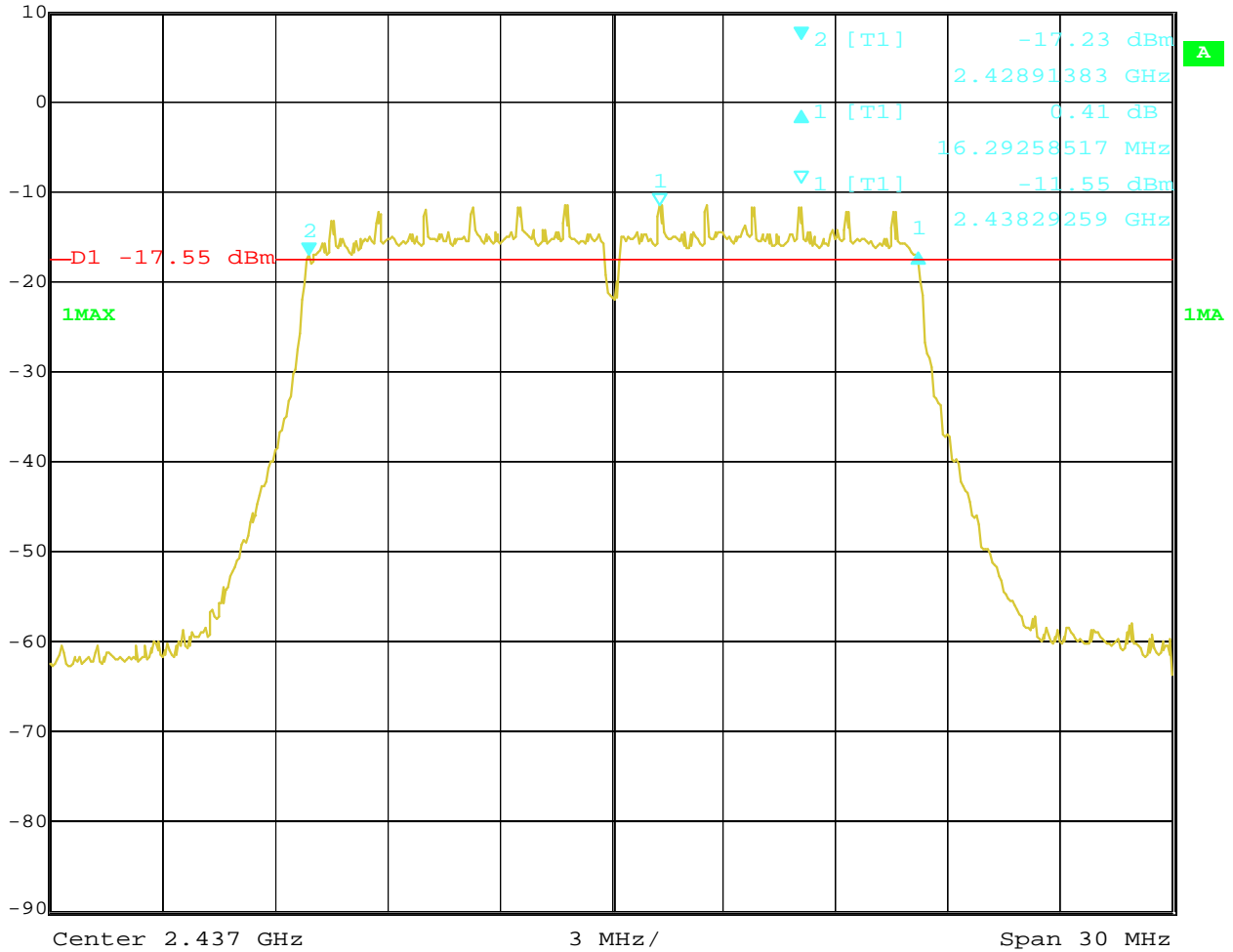
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2. 802.11g at 6Mbps of CH06



	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.41 dB	VBW	300 kHz		
10 dBm	16.29258517 MHz	SWT	7.5 ms	Unit	dBm



Date: 20.AUG.2024 15:51:04

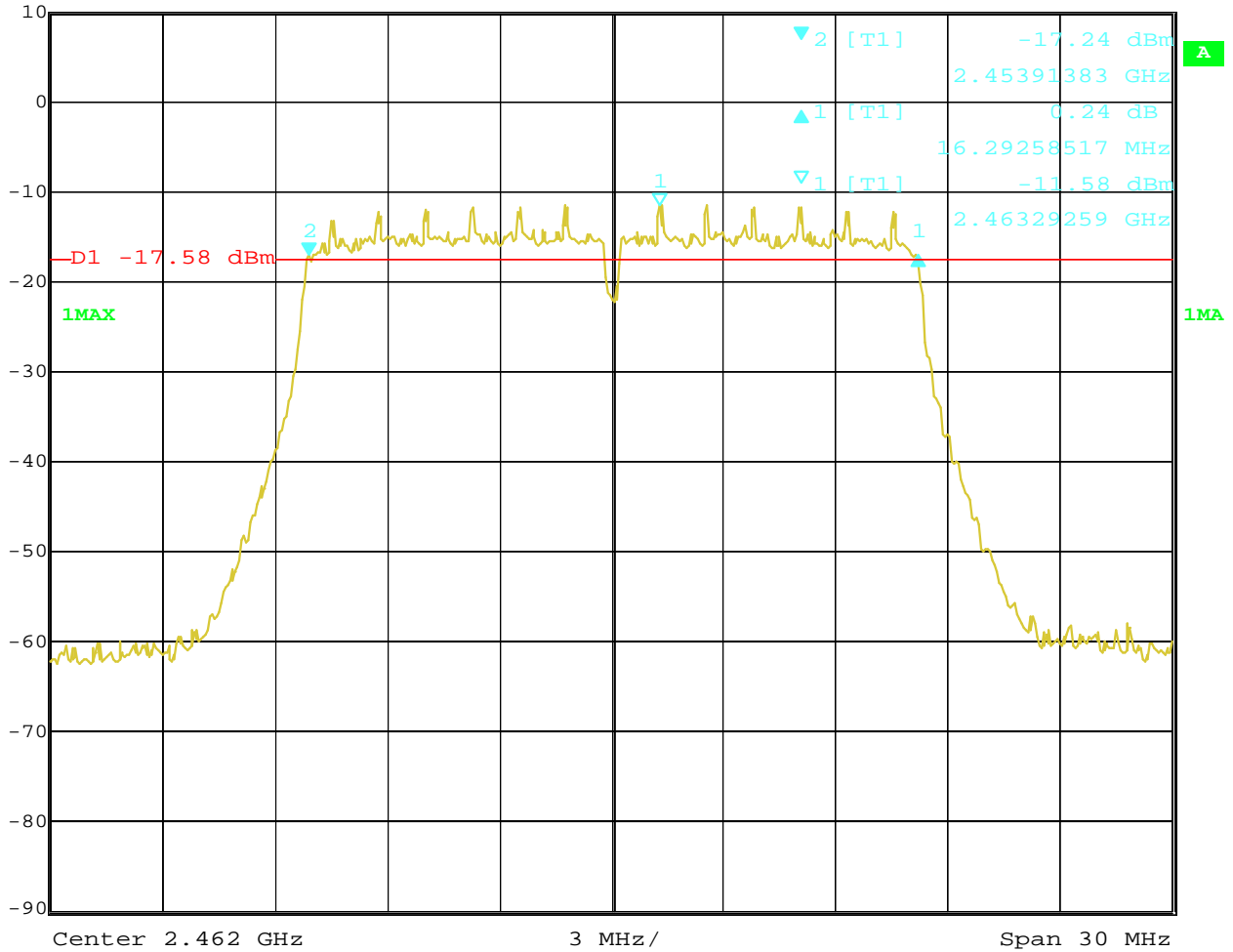
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3. 802.11g at 6Mbps of CH11



	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.24 dB	VBW	300 kHz		
10 dBm	16.29258517 MHz	SWT	7.5 ms	Unit	dBm



Date: 20.AUG.2024 15:47:03

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6dB Occupied Bandwidth

EUT		Dash Camera		Model		G309	
Mode		802.11n HT20		Input Voltage		DC5V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail		
1	2412	mcs0	17.25	0.5	Pass		
6	2437	mcs0	17.25	0.5	Pass		
11	2462	mcs0	17.25	0.5	Pass		

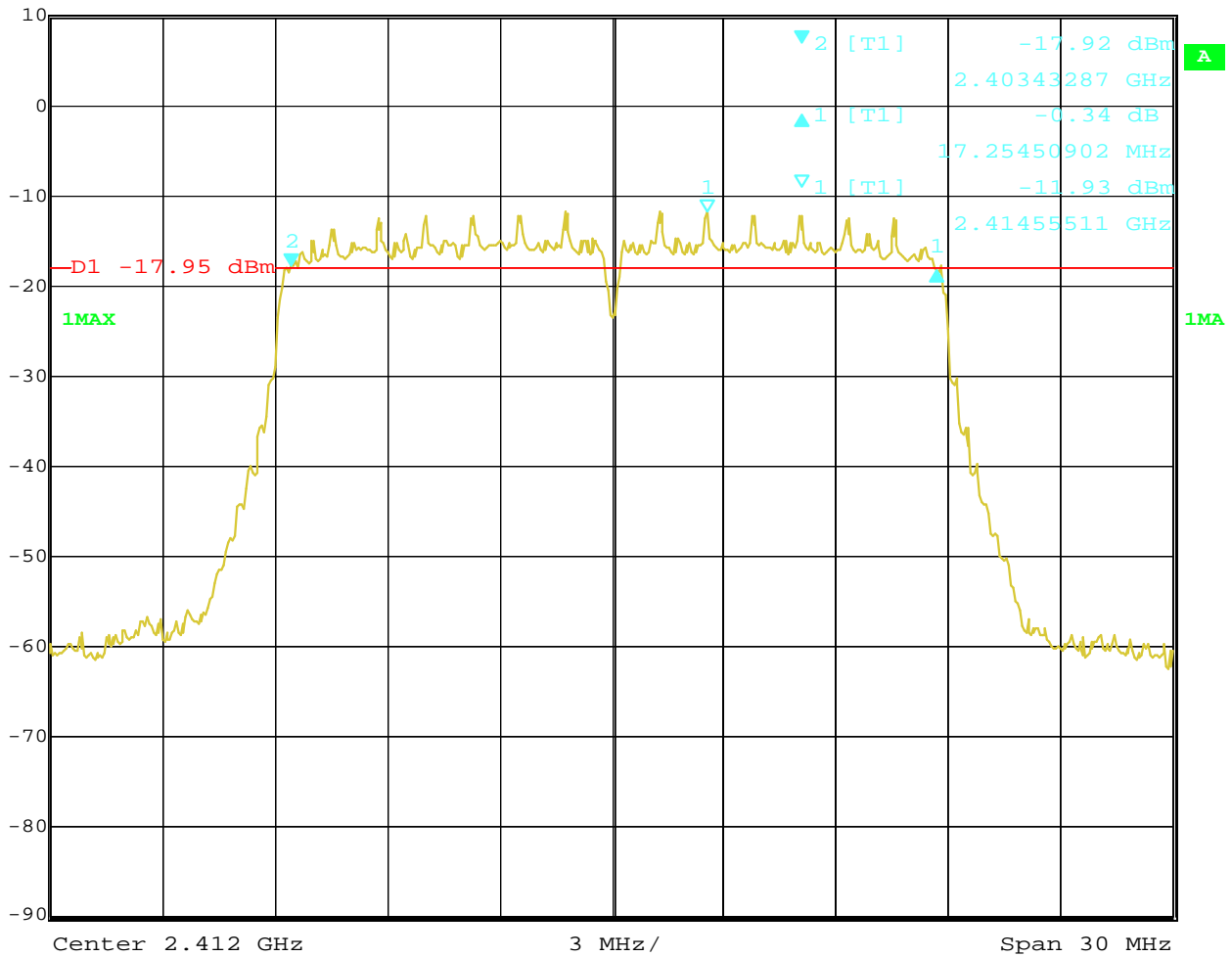
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Test Plots:

1. 802.11n at HT20 of CH01

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	-0.34 dB	VBW	300 kHz	
	10 dBm	17.25450902 MHz	SWT	7.5 ms	Unit



Date: 20.AUG.2024 16:41:13

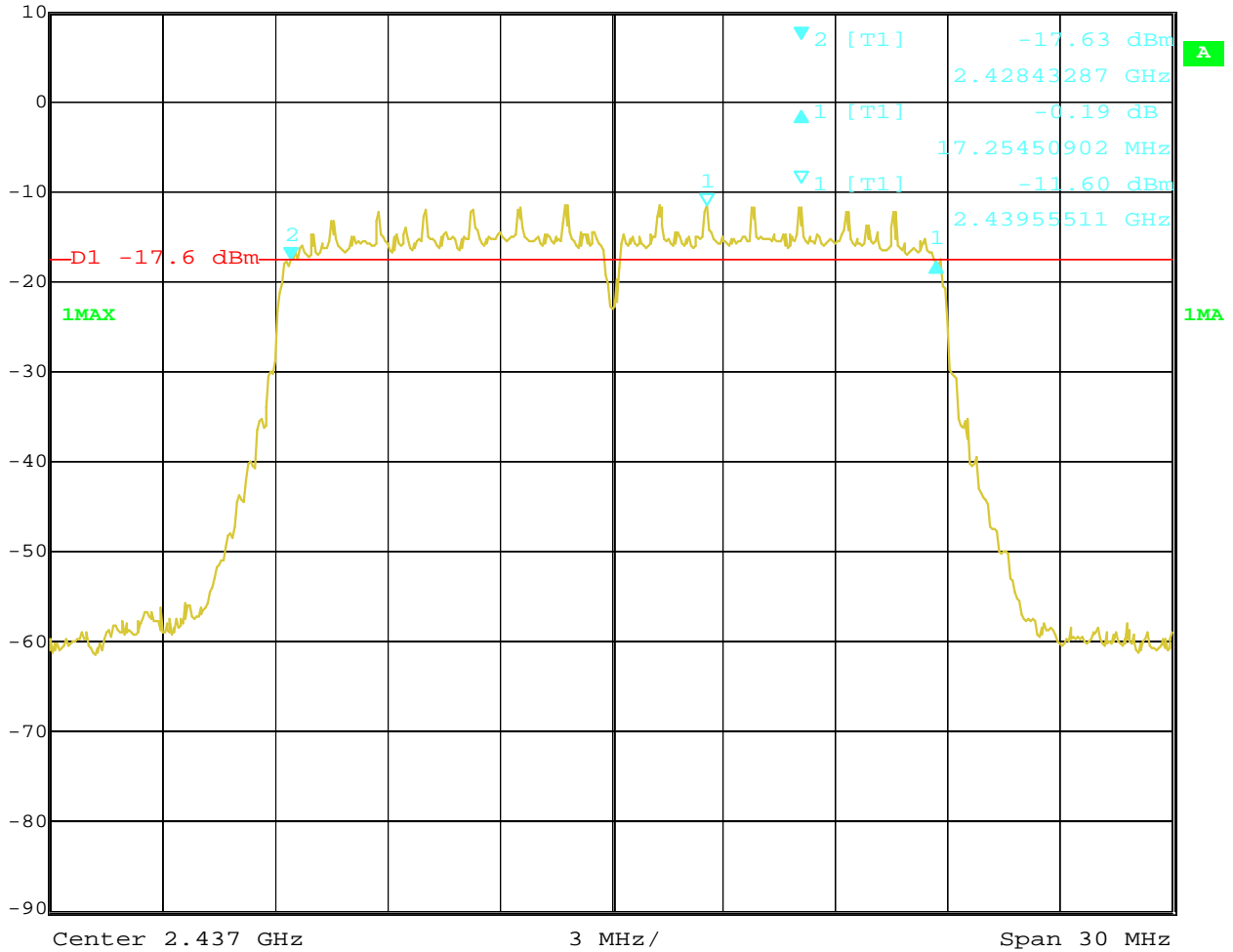
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2. 802.11n at HT20 of CH06



	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	-0.19 dB	VBW	300 kHz		
10 dBm	17.25450902 MHz	SWT	7.5 ms	Unit	dBm



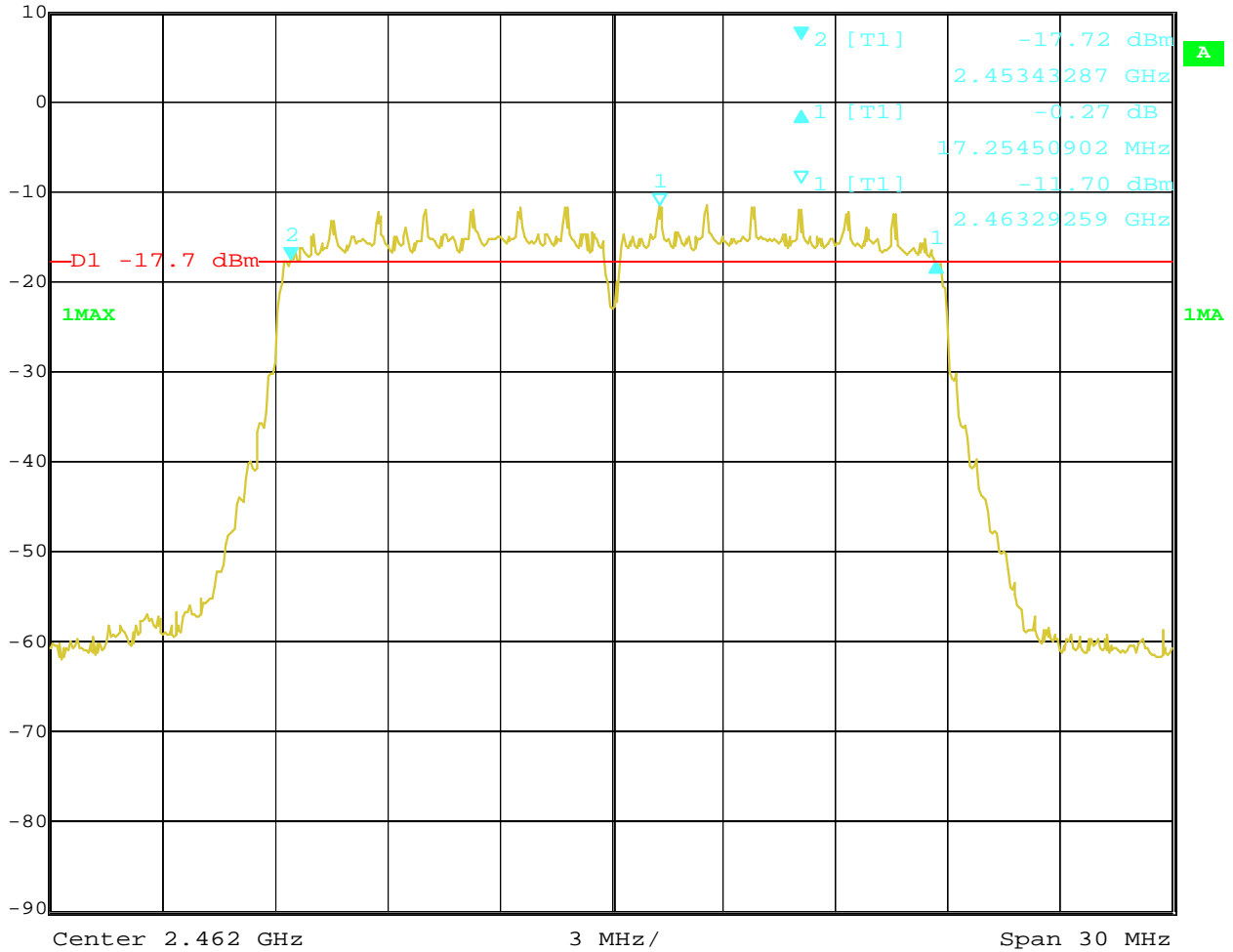
Date: 20.AUG.2024 16:35:01

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3. 802.11n at HT20 of CH11

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	-0.27 dB	VBW	300 kHz	
	10 dBm	17.25450902 MHz	SWT	7.5 ms	Unit



Date: 20.AUG.2024 16:30:27

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6dB Occupied Bandwidth

EUT		Dash Camera		Model		G309	
Mode		802.11n HT40		Input Voltage		DC5V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass/ Fail		
3	2422	mcs0	35.97	0.5	Pass		
6	2437	mcs0	35.97	0.5	Pass		
9	2452	mcs0	35.97	0.5	Pass		

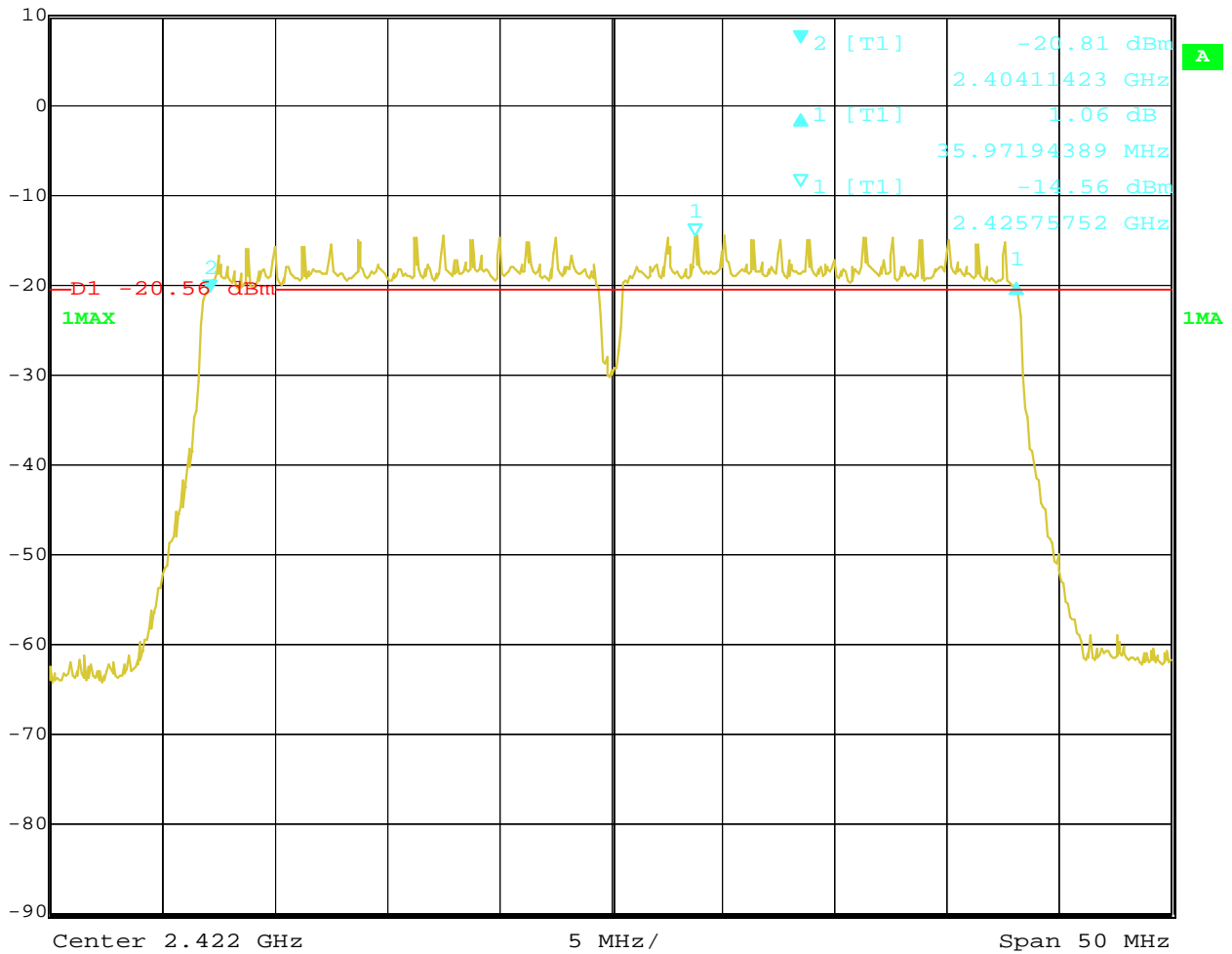
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Test Plots:

1. 802.11n at HT40 of CH3

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	1.06 dB	VBW	300 kHz	
	10 dBm	35.97194389 MHz	SWT	12.5 ms	Unit dBm



Date: 20.AUG.2024 17:45:28

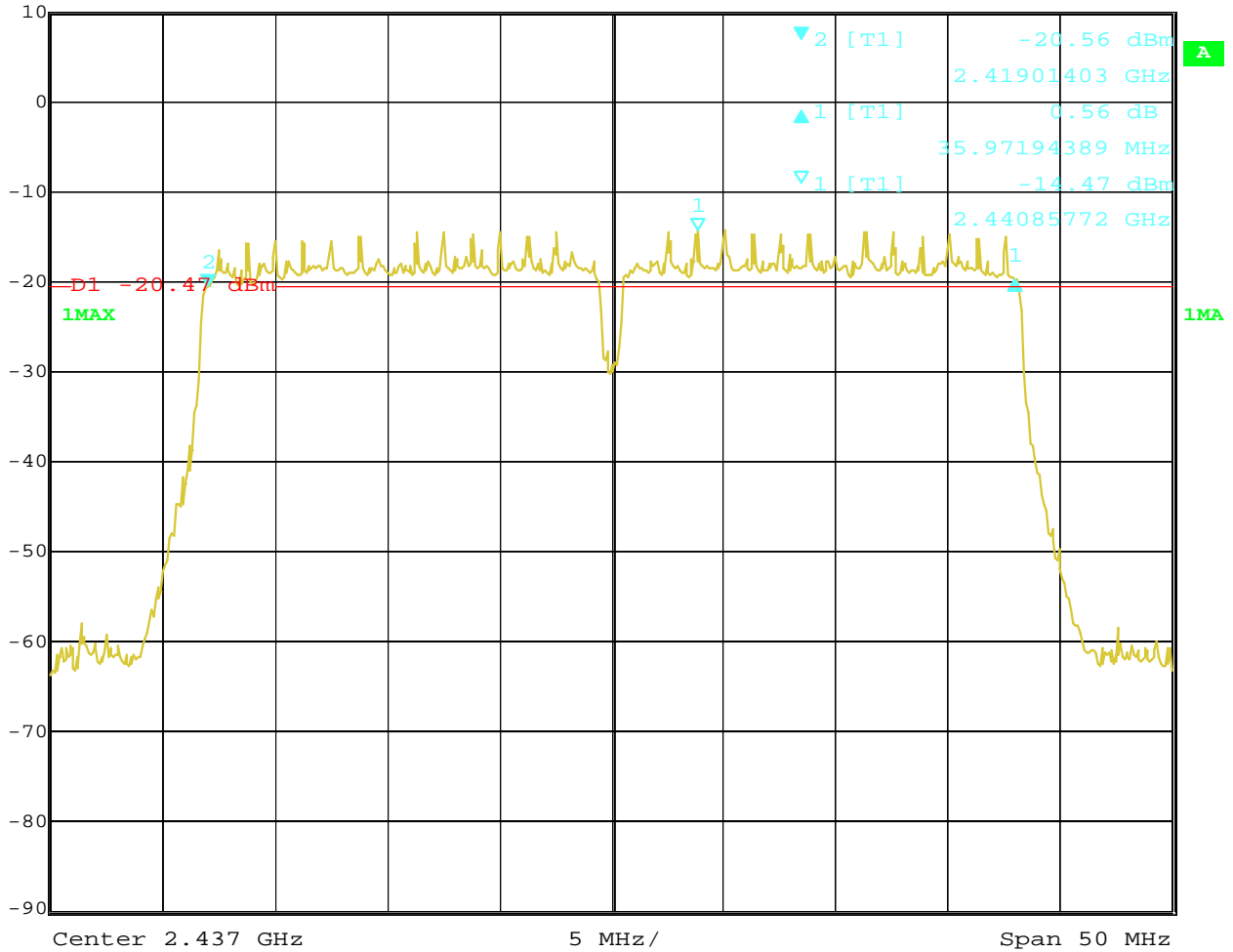
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2. 802.11n at HT40 of CH06



	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
Ref Lvl	0.56 dB	VBW	300 kHz		
10 dBm	35.97194389 MHz	SWT	12.5 ms	Unit	dBm



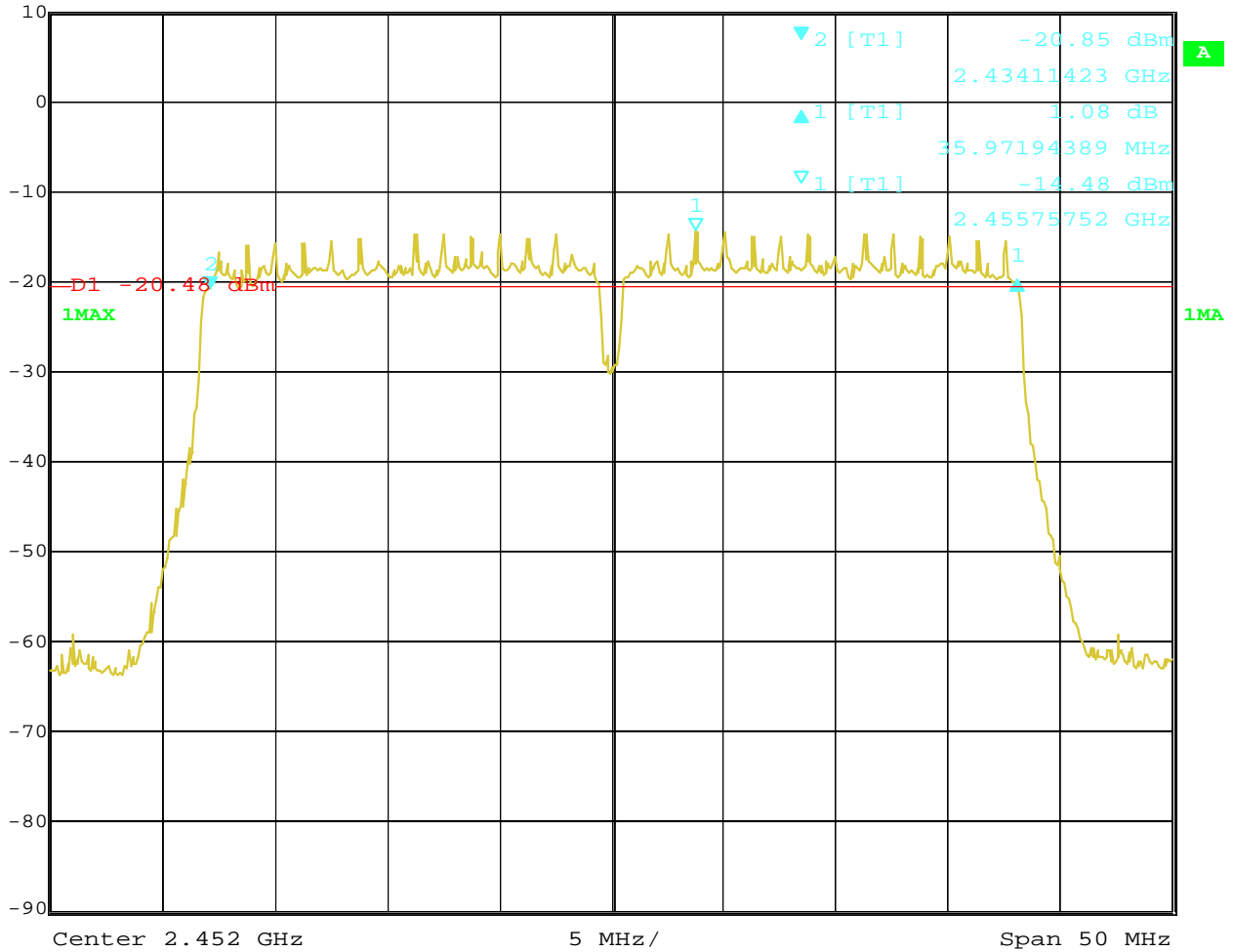
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3. 802.11n at HT40 of CH09

	Delta 1 [T1]	RBW	100 kHz	RF Att	20 dB
	Ref Lvl	1.08 dB	VBW	300 kHz	
	10 dBm	35.97194389 MHz	SWT	12.5 ms	Unit dBm



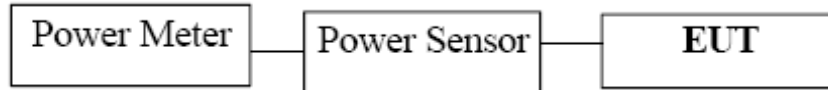
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8. Maximum Output Power

8.1 Test Setup



8.2 Limits of Maximum Output Power

The Maximum Output Power Measurement is 30dBm.

8.3 Test Procedure

The RF power output was measured with a Power meter connected to the RF Antenna connector (conducted measurement) while EUT was operating in transmit mode at the appropriate centre frequency.

Note: The Peak power was measured

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8.4 Test Results

EUT		Dash Camera		Model	G309
Mode		802.11b		Test Voltage	DC5V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Frequency (MHz)	PK Power (dBm)		Power Limit (dBm)	Pass/ Fail
1	2412	5.02		30	Pass
6	2437	5.29		30	Pass
11	2462	5.74		30	Pass

- Note: 1. At final test to get the worst-case emission at 1Mbps for CH01, CH06 and CH11
 2. The result basic equation calculation as follow:
 Power Output = Power Reading + Cable loss + Attenuator
 3. The worse case was recorded

EUT		Dash Camera		Model	G309
Mode		802.11g		Test Voltage	DC5V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Frequency (MHz)	PK Power (dBm)		Power Limit (dBm)	Pass/ Fail
1	2412	7.53		30	Pass
6	2437	7.87		30	Pass
11	2462	7.86		30	Pass

- Note: 1. At final test to get the worst-case emission at 6Mbps for CH01, CH06 and CH11
 2. The result basic equation calculation as follow:
 Power Output = Power Reading + Cable loss + Attenuator
 3. The worse case was recorded

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EUT		Dash Camera		Model	G309
Mode		802.11n (HT20)		Test Voltage	DC5V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Frequency (MHz)	PK Power (dBm)		Power Limit (dBm)	Pass/ Fail
1	2412	7.56		30	Pass
6	2437	7.87		30	Pass
11	2462	7.91		30	Pass

- Note: 1. At final test to get the worst-case emission at mcs0 of 11n HT20 for CH01, CH06 and CH11
 2. The result basic equation calculation as follow:
 Power Output = Power Reading + Cable loss + Attenuator
 3. The worse case was recorded

EUT		Dash Camera		Model	G309
Mode		802.11n (HT40)		Test Voltage	DC5V
Temperature		24 deg. C,		Humidity	56% RH
Channel	Frequency (MHz)	PK Power (dBm)		Power Limit (dBm)	Pass/ Fail
3	2422	7.93		30	Pass
6	2437	8.17		30	Pass
9	2452	7.94		30	Pass

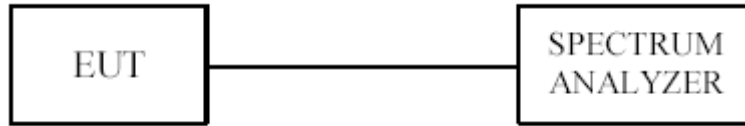
- Note: 1. At final test to get the worst-case emission at msc0 of 11n HT40 for CH03, CH06 and CH09
 2. The result basic equation calculation as follow:
 Power Output = Power Reading + Cable loss + Attenuator
 3. The worse case was recorded

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9. Power Spectral Density Measurement

9.1 Test Setup



9.2 Limits of Power Spectral Density Measurement

The Maximum Power Spectral Density Measurement is 8dBm/3kHz.

9.3 Test Procedure

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 10 kHz.
3. Set the VBW \geq 30 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be \leq 8 dBm/3kHz.

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9.4 Test Result

EUT		Dash Camera		Model		G309	
Mode		802.11b 11Mbps		Test Voltage		DC5V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm/10kHz)		Limit (dBm/3kHz)	Pass/ Fail		
1	2412	-19.45		8	Pass		
6	2437	-19.12		8	Pass		
11	2462	-18.74		8	Pass		

EUT		Dash Camera		Model		G309	
Mode		802.11b 1Mbps		Test Voltage		DC5V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm/10kHz)		Limit (dBm/3kHz)	Pass/ Fail		
1	2412	-20.36		8	Pass		
6	2437	-20.21		8	Pass		
11	2462	-19.94		8	Pass		

EUT		Dash Camera		Model		G309	
Mode		802.11g 6Mbps		Test Voltage		DC5V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density (dBm/10kHz)		Limit (dBm/3kHz)	Pass/ Fail		
1	2412	-21.11		8	Pass		
6	2437	-20.80		8	Pass		
11	2462	-20.76		8	Pass		

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EUT		Dash Camera		Model		G309	
Mode		802.11n HT20 mcs0		Test Voltage		DC5V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density		Limit (dBm/3kHz)	Pass/ Fail		
1	2412	-21.39		8	Pass		
6	2437	-21.01		8	Pass		
11	2462	-21.05		8	Pass		

EUT		Dash Camera		Model		G309	
Mode		802.11n HT40 mcs0		Test Voltage		DC5V	
Temperature		24 deg. C,		Humidity		56% RH	
Channel	Frequency (MHz)	Power Spectral Density		Limit (dBm/3kHz)	Pass/ Fail		
3	2422	-24.54		8	Pass		
6	2437	-24.06		8	Pass		
9	2452	-24.75		8	Pass		

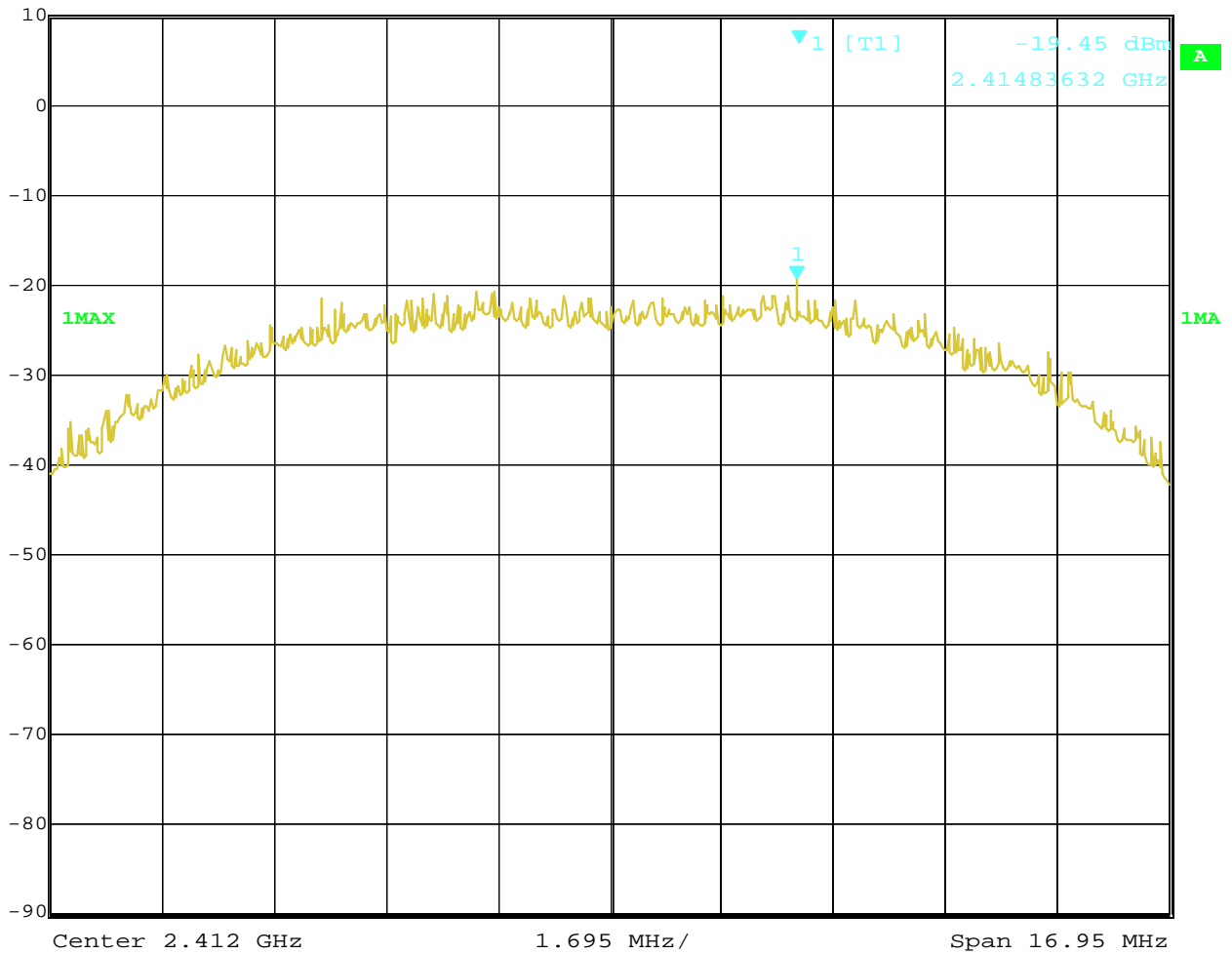
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9.5 Photo of Power Spectral Density Measurement

1.802.11b at 11Mbps of CH01

	Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	10 dBm	-19.45 dBm	VBW	30 kHz		
		2.41483632 GHz	SWT	430 ms	Unit	dBm



Date: 20.AUG.2024 15:36:29

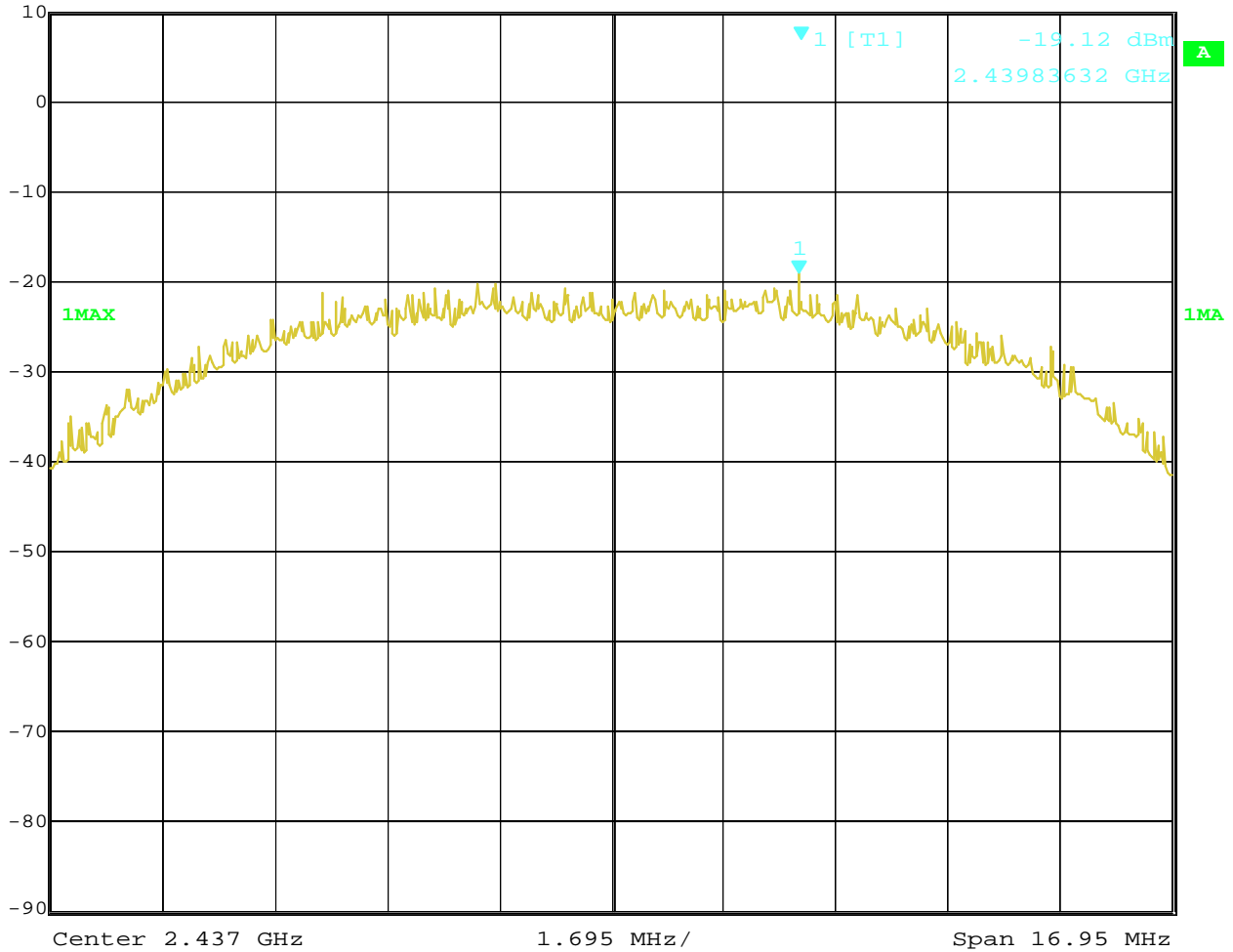
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2. 802.11b at 11Mbps at CH06



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
10 dBm	-19.12 dBm	VBW	30 kHz		
	2.43983632 GHz	SWT	430 ms	Unit	dBm



Date: 20.AUG.2024 15:34:42

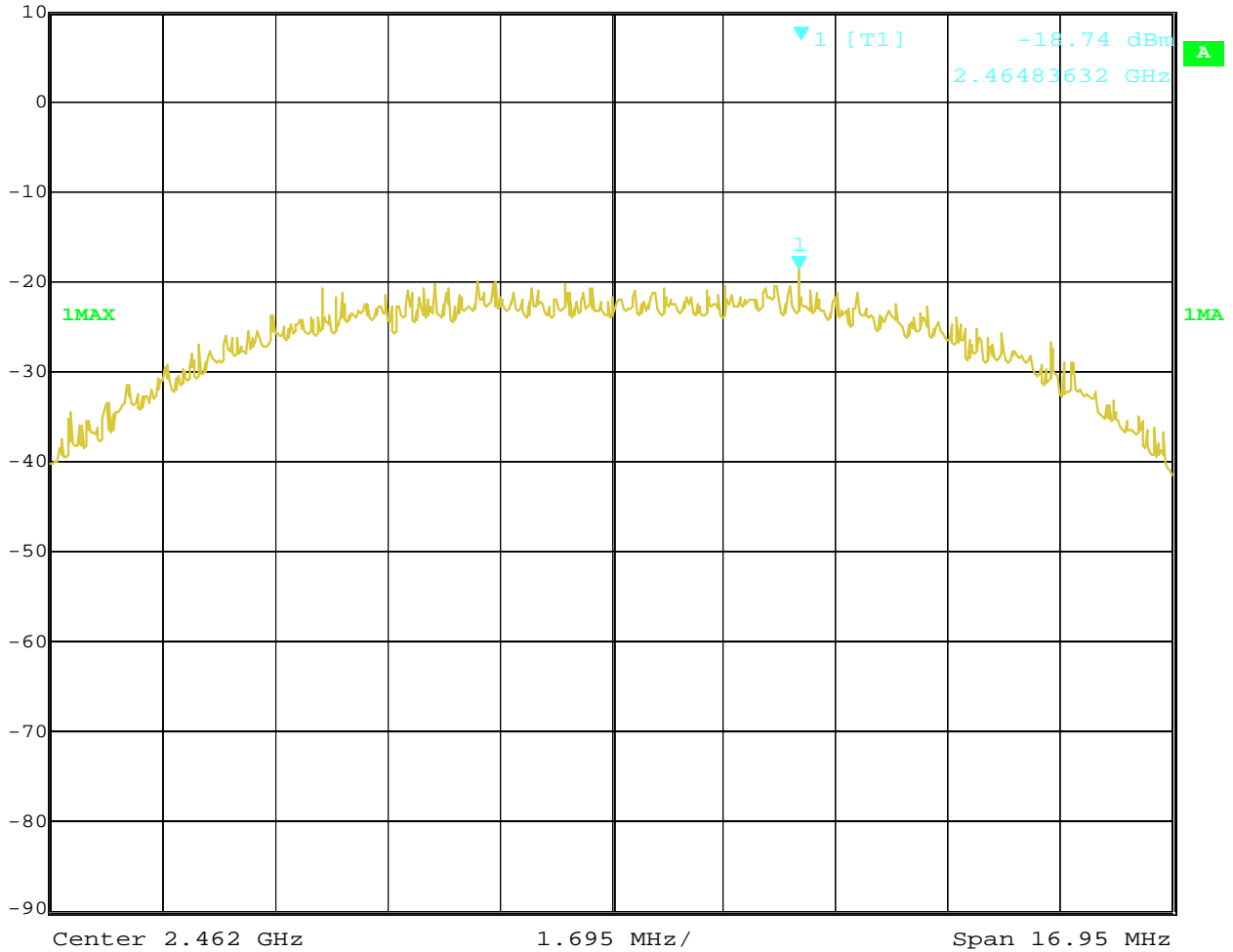
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3. 802.11b at 11Mbps of CH11



	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
Ref Lvl	-18.74 dBm	VBW	30 kHz		
10 dBm	2.46483632 GHz	SWT	430 ms	Unit	dBm



Date: 20.AUG.2024 15:32:29

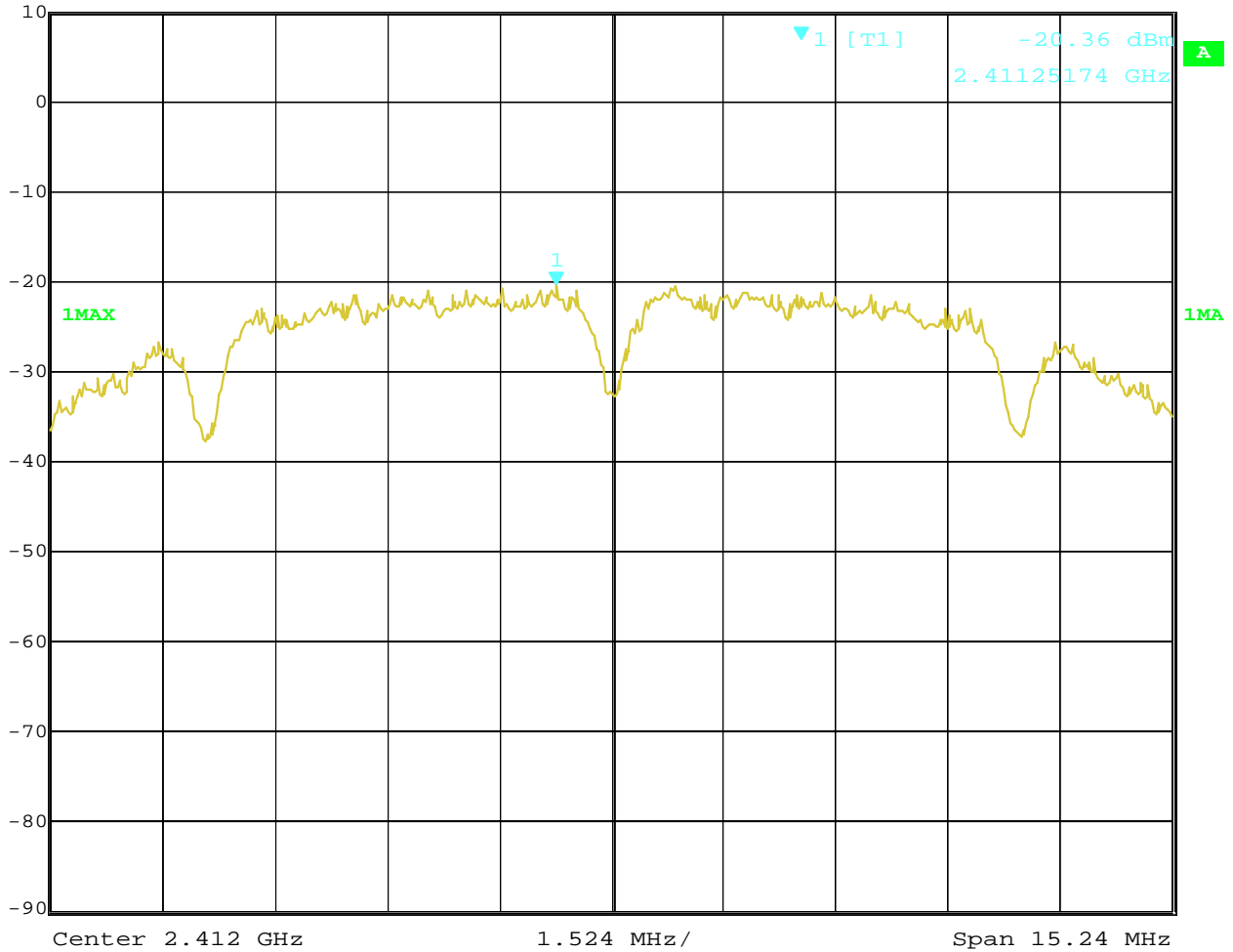
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4. 802.11b at 1Mbps of CH1



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
10 dBm	-20.36 dBm	VBW	30 kHz		
	2.41125174 GHz	SWT	390 ms	Unit	dBm



Date: 20.AUG.2024 15:03:13

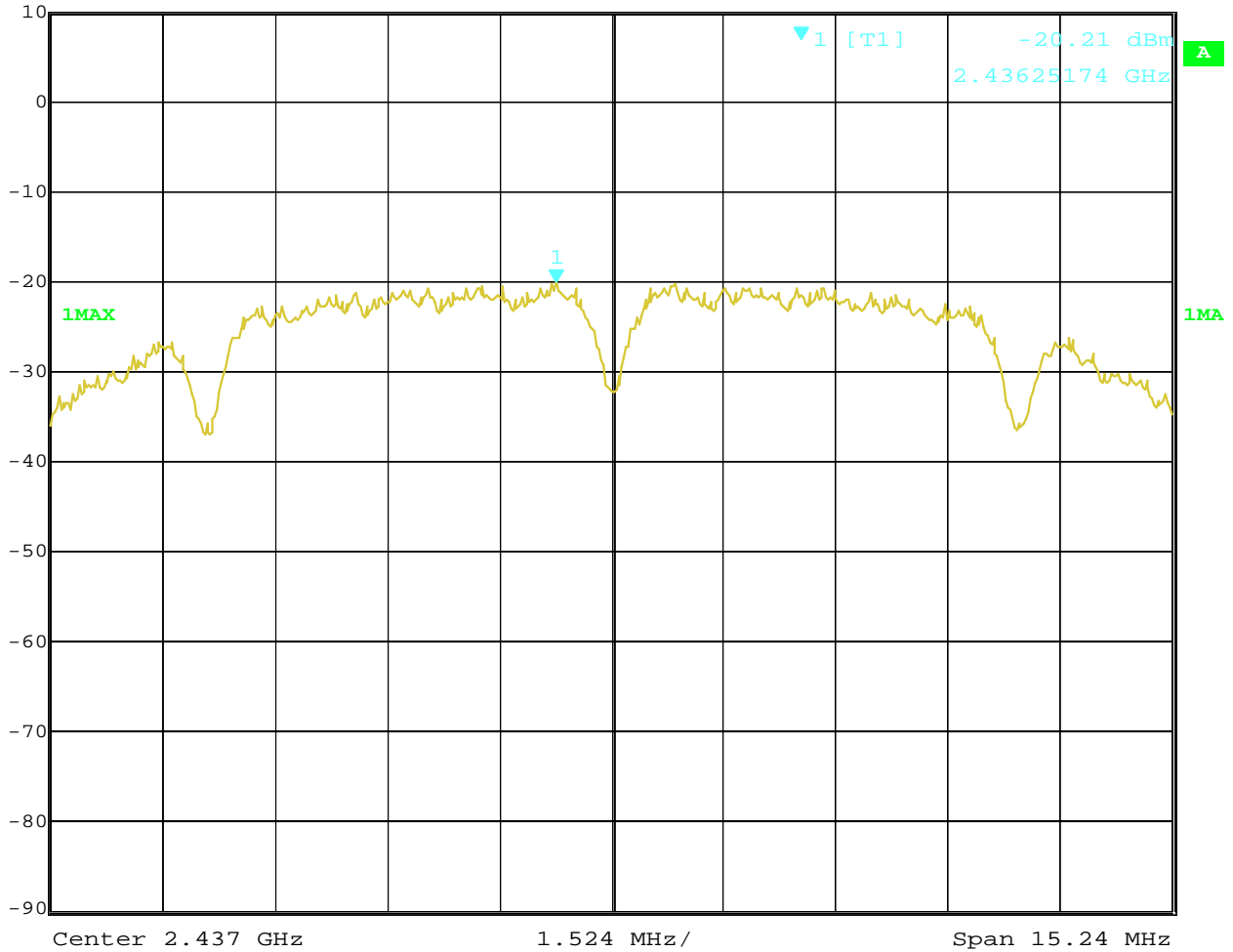
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5. 802.11b at 1Mbps of CH6



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
10 dBm	-20.21 dBm	VBW	30 kHz		
	2.43625174 GHz	SWT	390 ms	Unit	dBm



Date: 20.AUG.2024 15:02:22

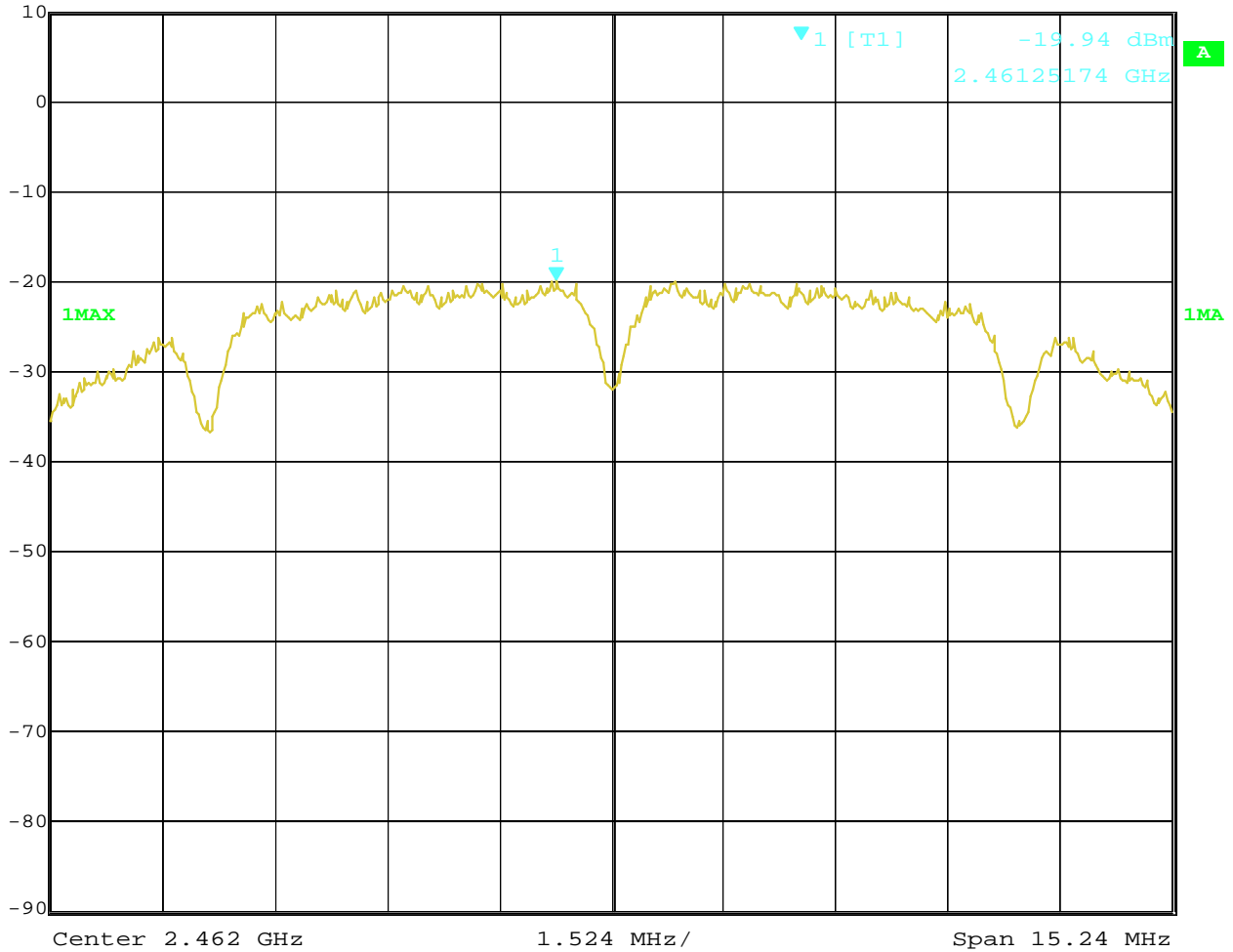
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6. 802.11b at 1Mbps of CH11



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
10 dBm	-19.94 dBm	VBW	30 kHz		
	2.46125174 GHz	SWT	390 ms	Unit	dBm



Date: 20.AUG.2024 15:00:27

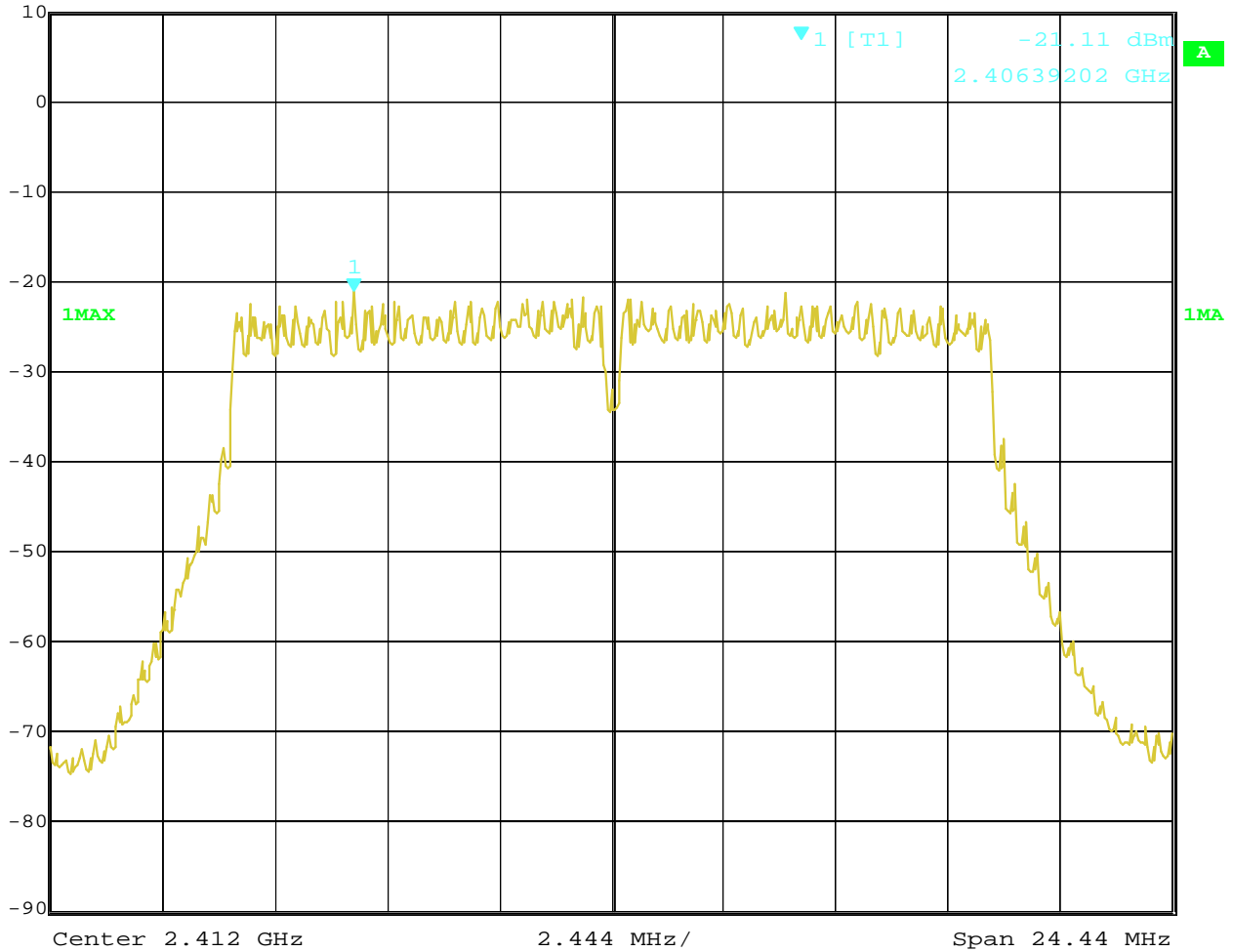
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7. 802.11g at 6Mbps of CH1



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
10 dBm	-21.11 dBm	VBW	30 kHz		
	2.40639202 GHz	SWT	620 ms	Unit	dBm



Date: 20.AUG.2024 16:17:51

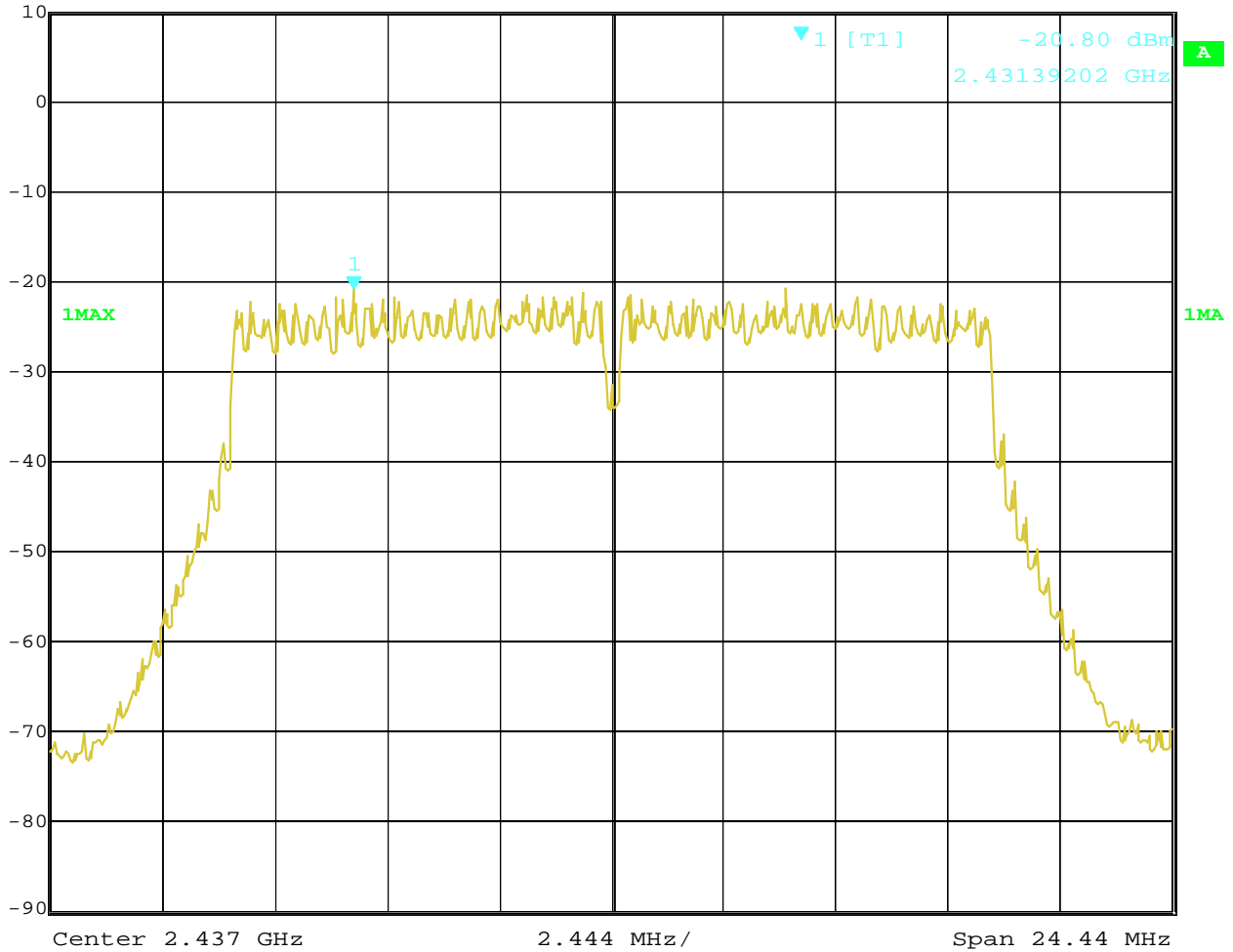
The report refers only to the sample tested and does not apply to the bulk.
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8. 802.11g at 6Mbps of CH6



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
10 dBm	-20.80 dBm	VBW	30 kHz		
	2.43139202 GHz	SWT	620 ms	Unit	dBm



Date: 20.AUG.2024 16:15:41

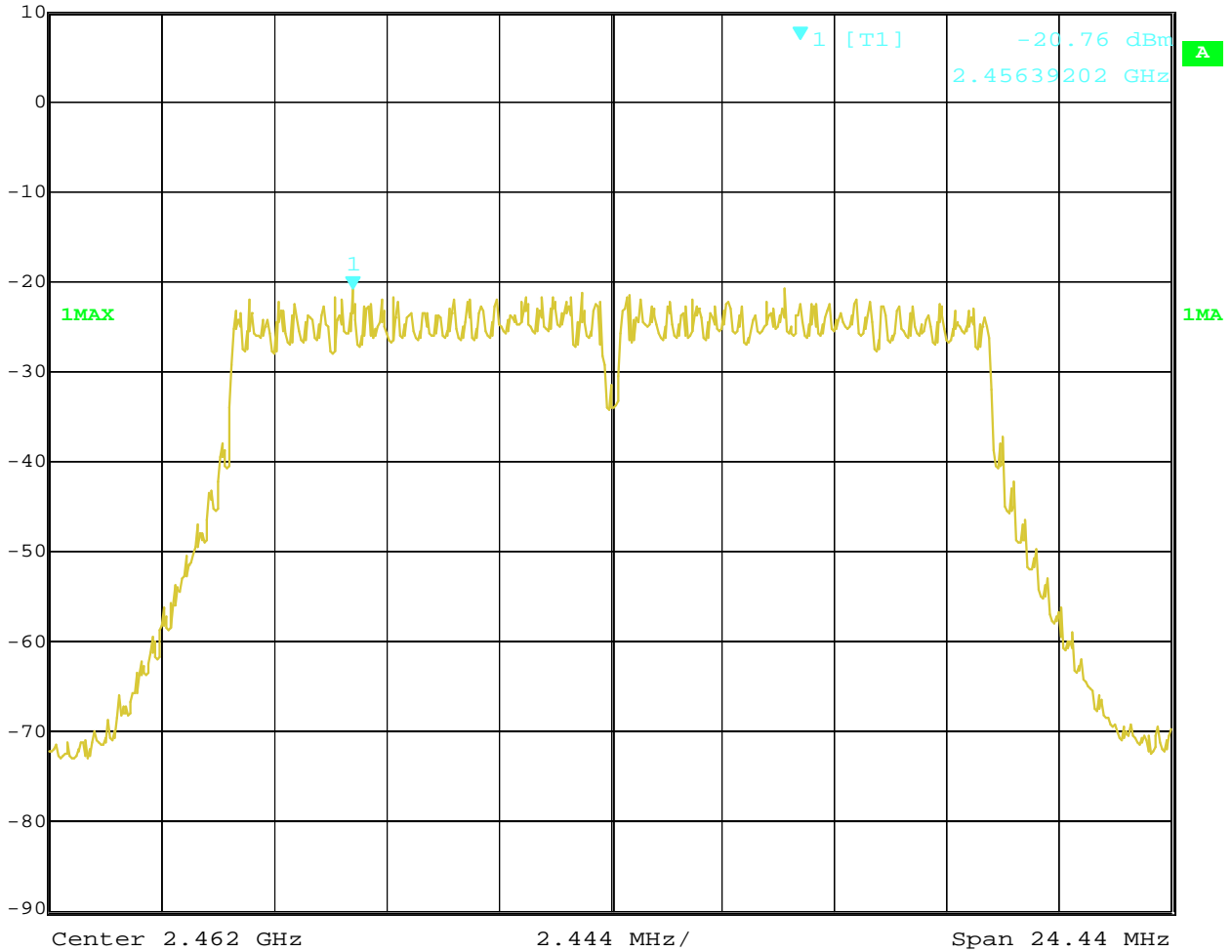
The report refers only to the sample tested and does not apply to the bulk.
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9. 802.11g at 6Mbps of CH11



Ref Lvl	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
10 dBm	-20.76 dBm	VBW	30 kHz		
	2.45639202 GHz	SWT	620 ms	Unit	dBm



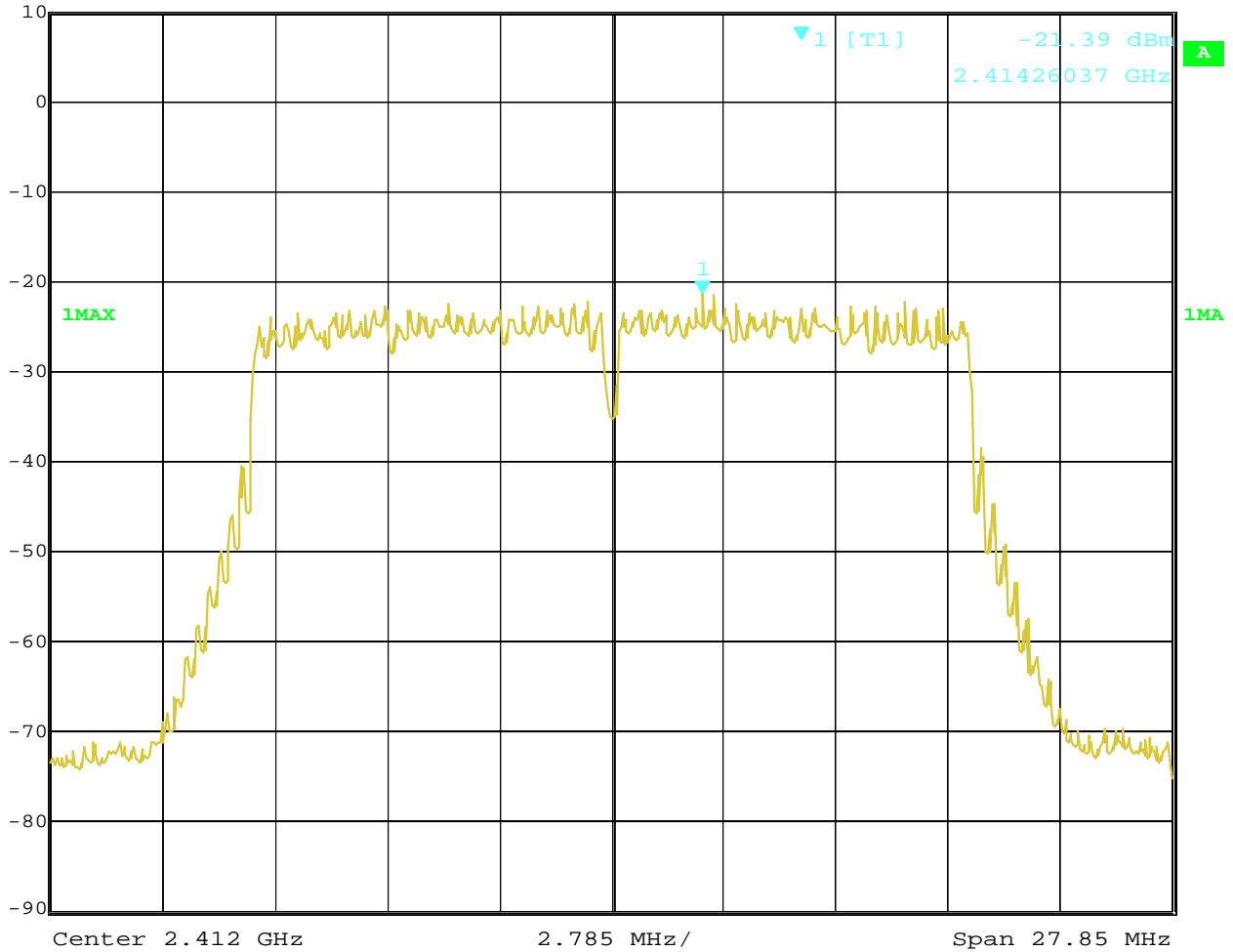
Date: 20.AUG.2024 16:11:41

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10. 802.11n at HT20 of CH01

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-21.39 dBm	VBW	30 kHz	
	10 dBm	2.41426037 GHz	SWT	700 ms	Unit dBm



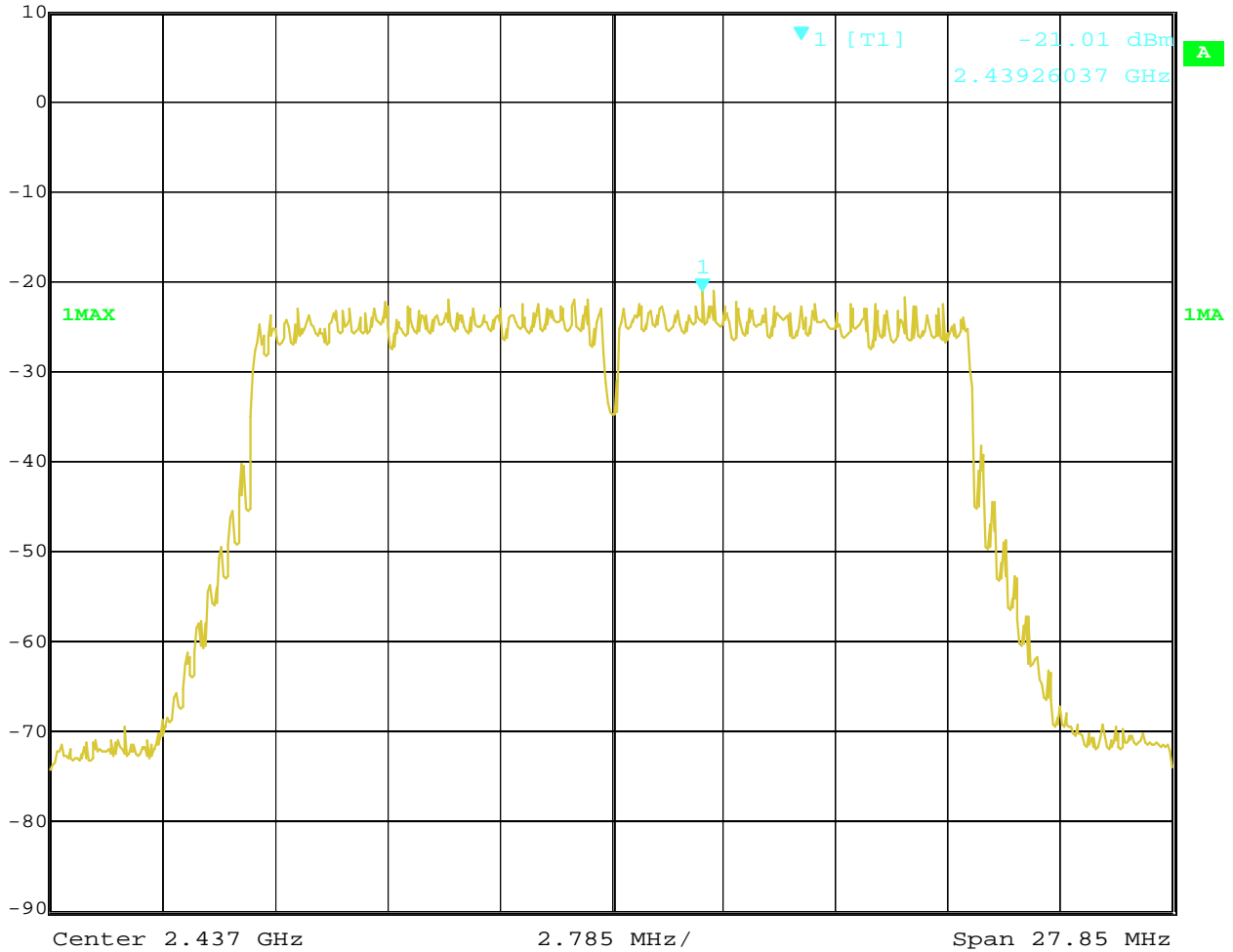
Date: 20.AUG.2024 17:22:09

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11. 802.11n at HT20 of CH06

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-21.01 dBm	VBW	30 kHz	
	10 dBm	2.43926037 GHz	SWT	700 ms	Unit dBm



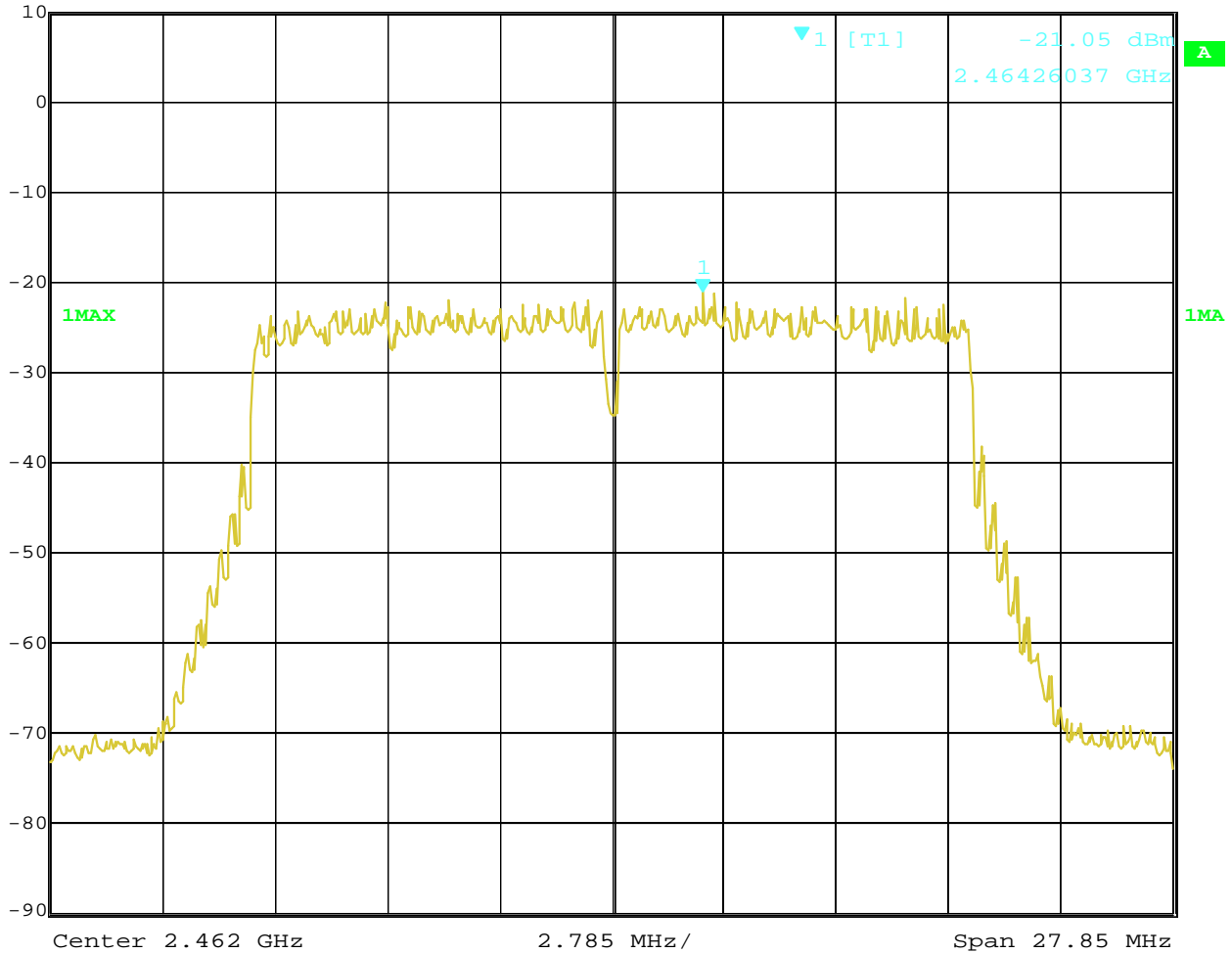
Date: 20.AUG.2024 17:19:29

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12. 802.11n at HT20 of CH11

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-21.05 dBm	VBW	30 kHz	
	10 dBm	2.46426037 GHz	SWT	700 ms	Unit dBm



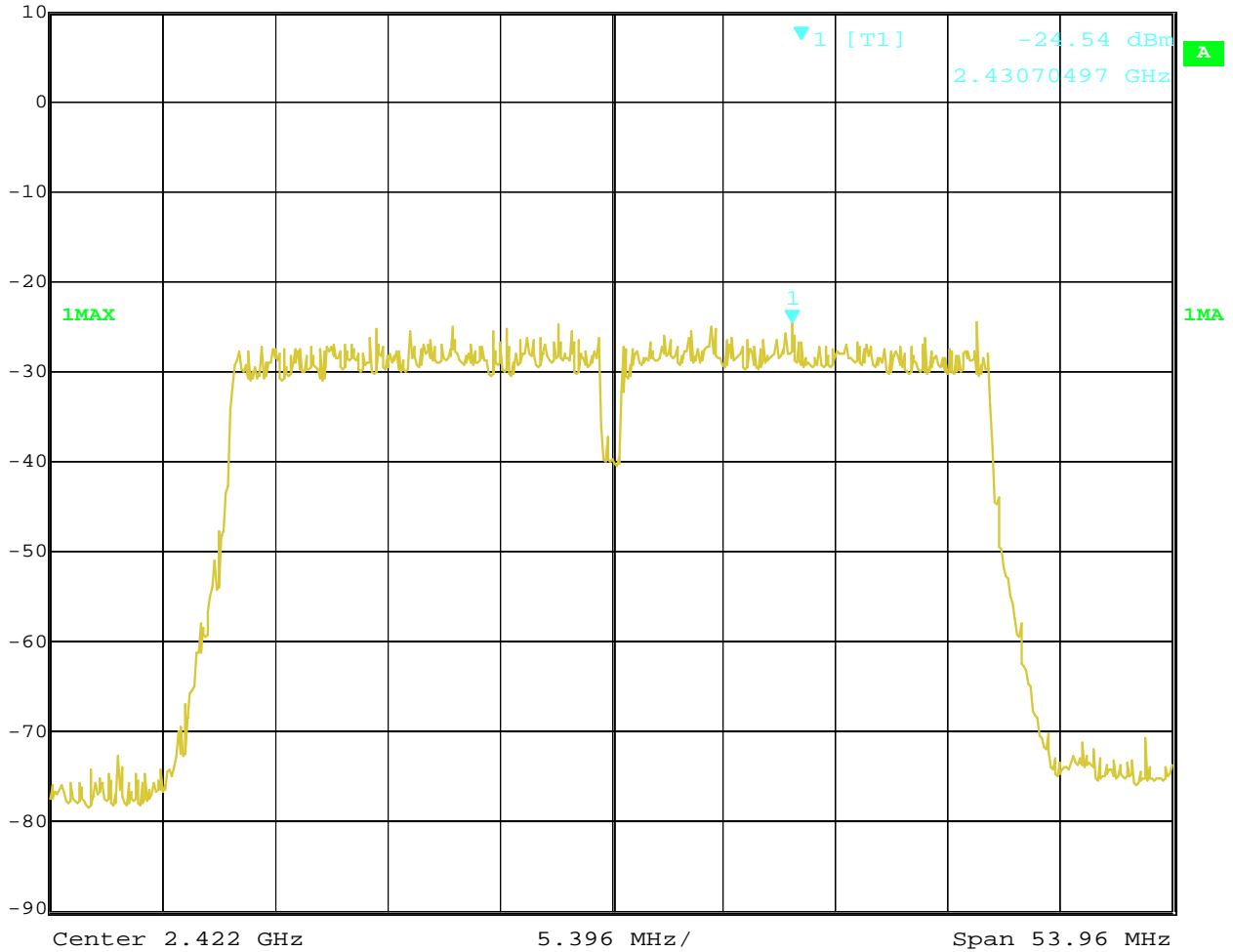
Date: 20.AUG.2024 17:15:36

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13. 802.11n at HT40 of CH03

RS	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-24.54 dBm	VBW	30 kHz	
	10 dBm	2.43070497 GHz	SWT	1.35 s	Unit dBm



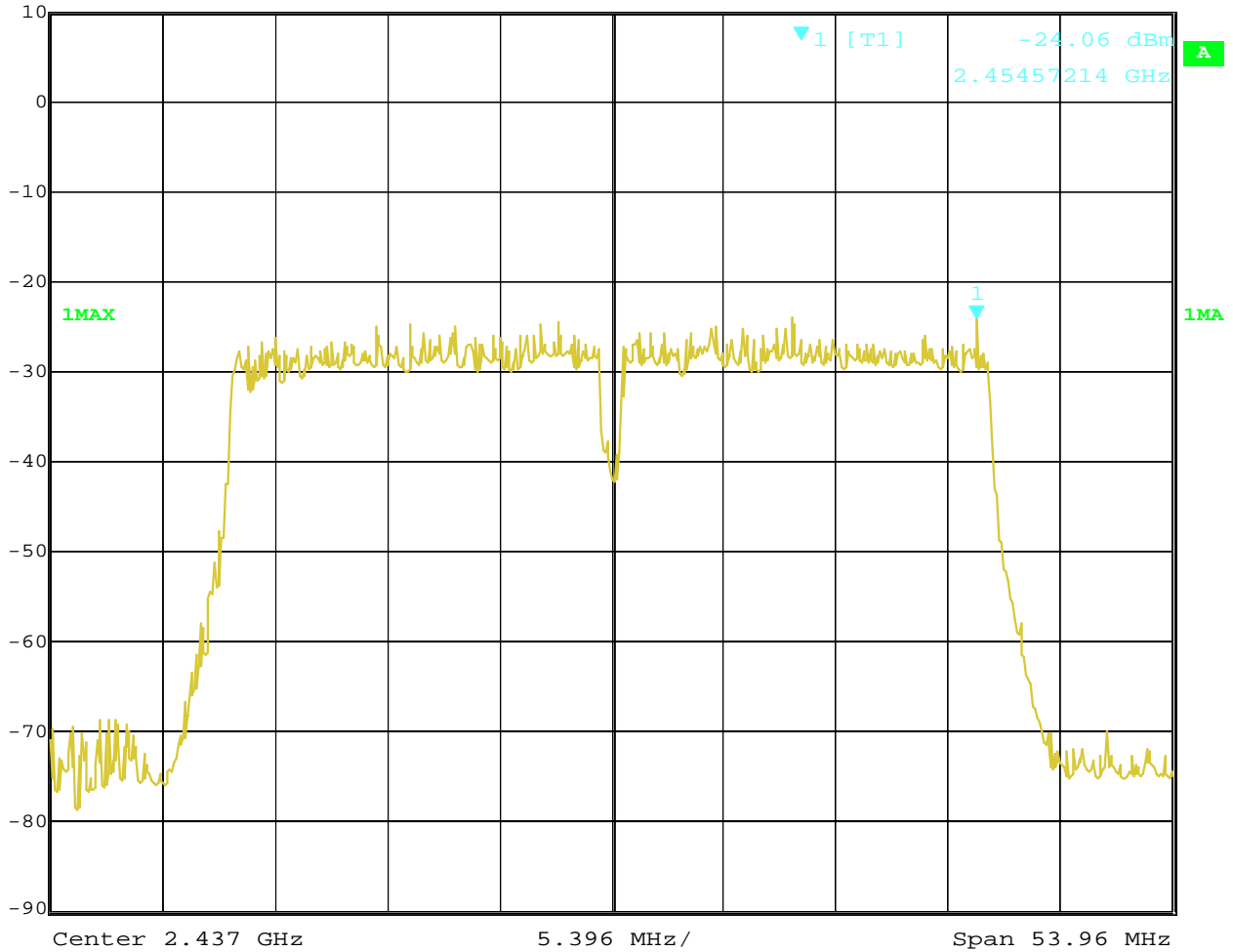
Date: 20.AUG.2024 17:59:44

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14. 802.11n at HT40 of CH06

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-24.06 dBm	VBW	30 kHz	
	10 dBm	2.45457214 GHz	SWT	1.35 s	Unit dBm



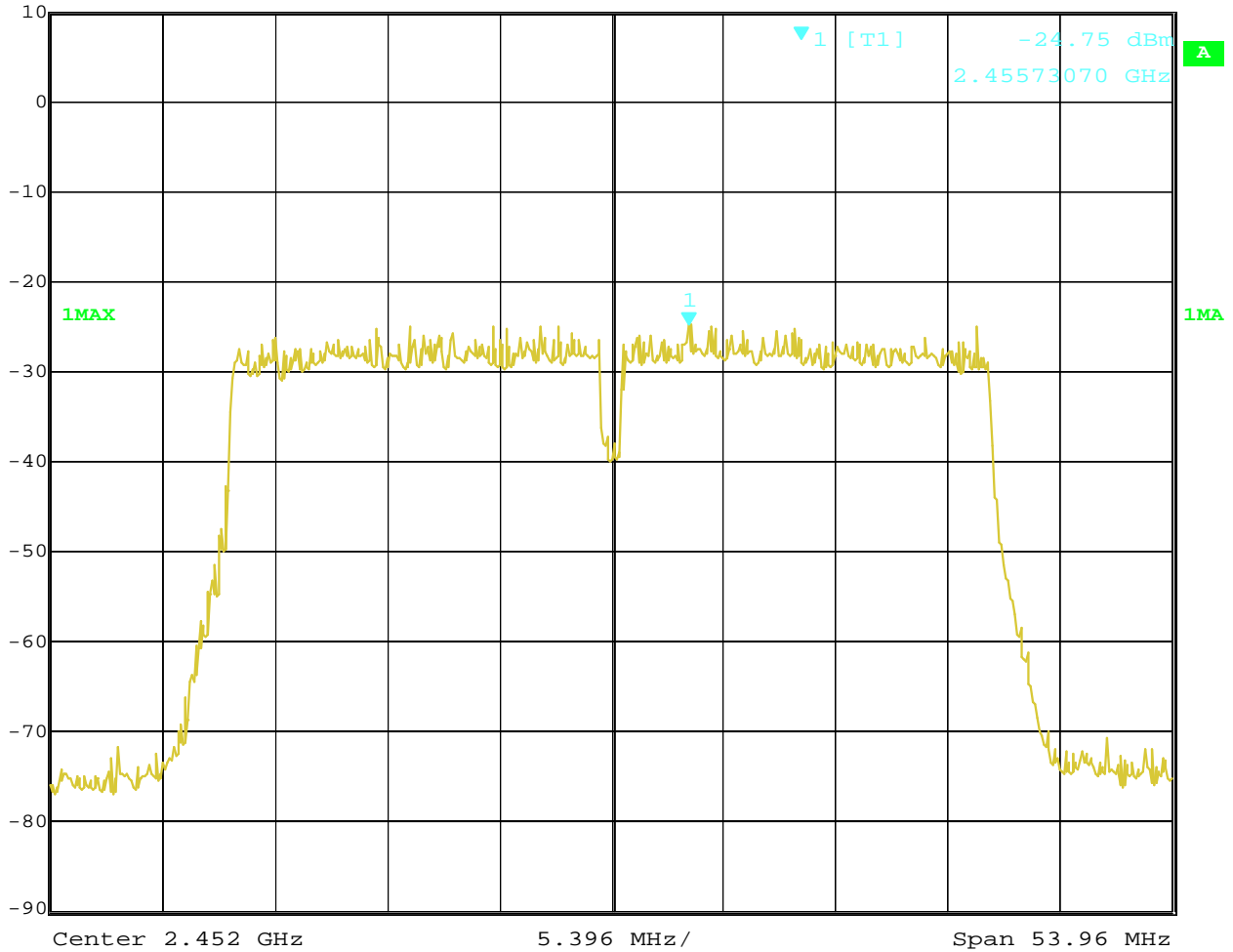
Date: 20.AUG.2024 18:00:27

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15. 802.11n at HT40 of CH09

	Marker 1 [T1]	RBW	10 kHz	RF Att	20 dB
	Ref Lvl	-24.75 dBm	VBW	30 kHz	
	10 dBm	2.45573070 GHz	SWT	1.35 s	Unit dBm



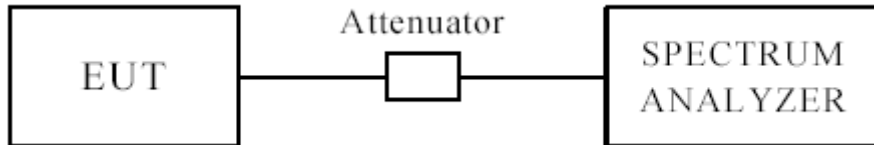
Date: 20.AUG.2024 18:01:38

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10 Out of Band Measurement

10.1 Test Setup for band edge



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 Limits of Out of Band Emissions Measurement

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 Test Procedure

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. (Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz, VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=100, VBW=300 kHz. A conducted measurement used

10.4 Test Result

Please see next pages

Note: 1. For band-edge measurement, the frequency from 30MHz-25GHz was tested. And It met the FCC rule.

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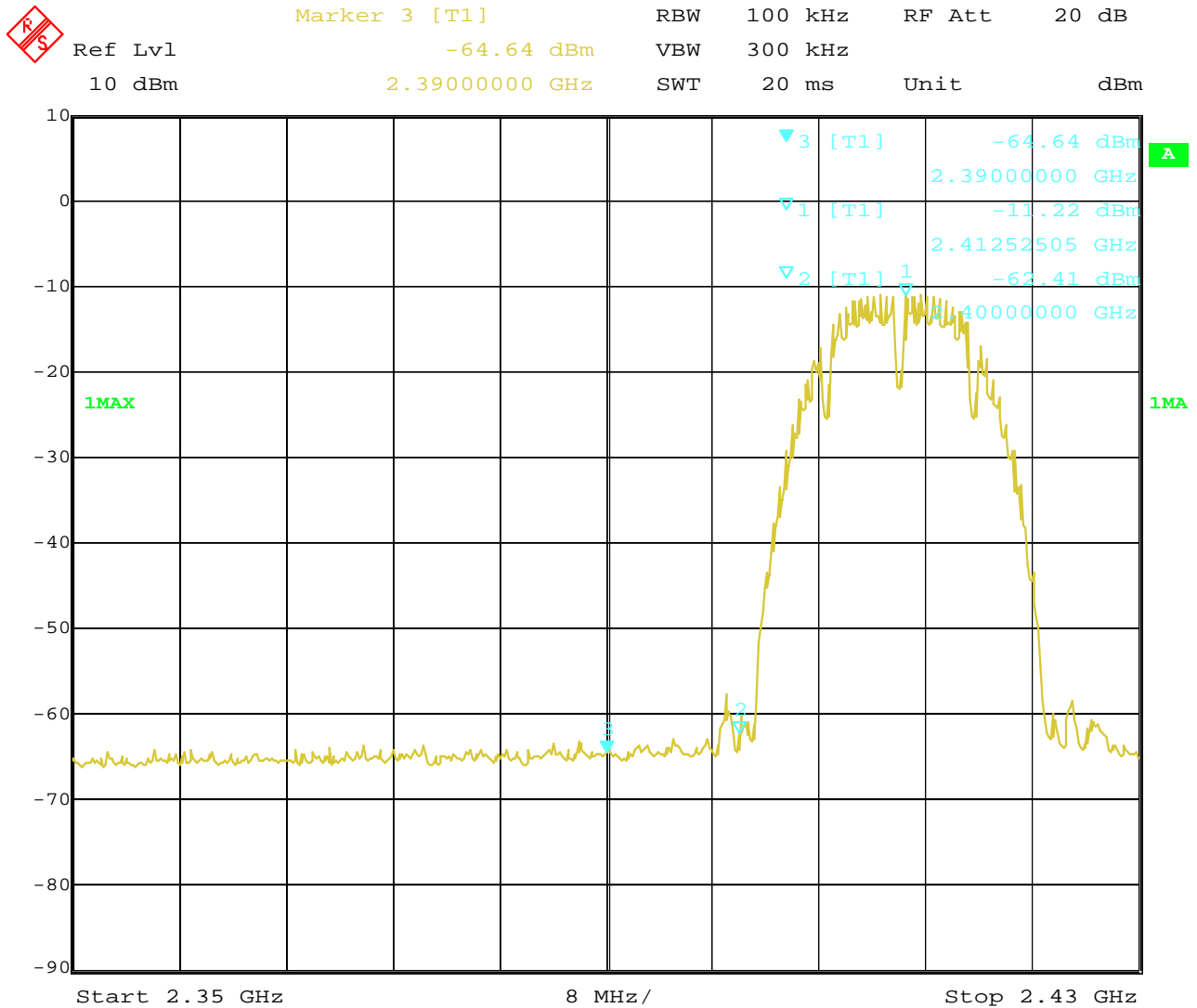
For 802.11b mode

CH01 at 1Mbps

10.4 Band-edge Measurement

EUT	Dash Camera	Model	G309
Mode	Keeping Transmitting	Input Voltage	DC5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 20.AUG.2024 14:41:58

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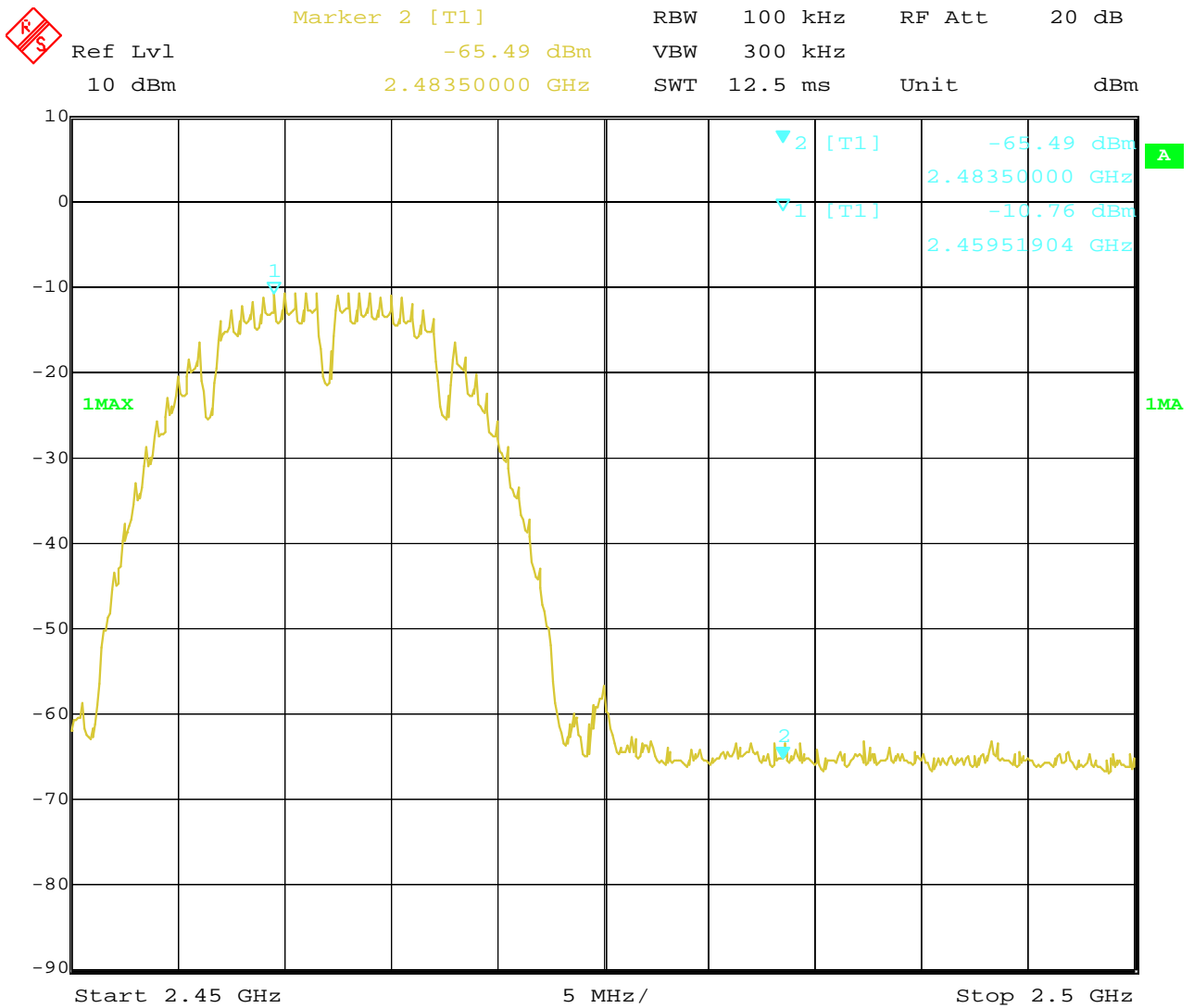


CH11 at 1Mbps

10.4 Band-edge Measurement

EUT	Dash Camera	Model	G309
Mode	Keeping Transmitting	Input Voltage	DC5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 20.AUG.2024 14:43:28

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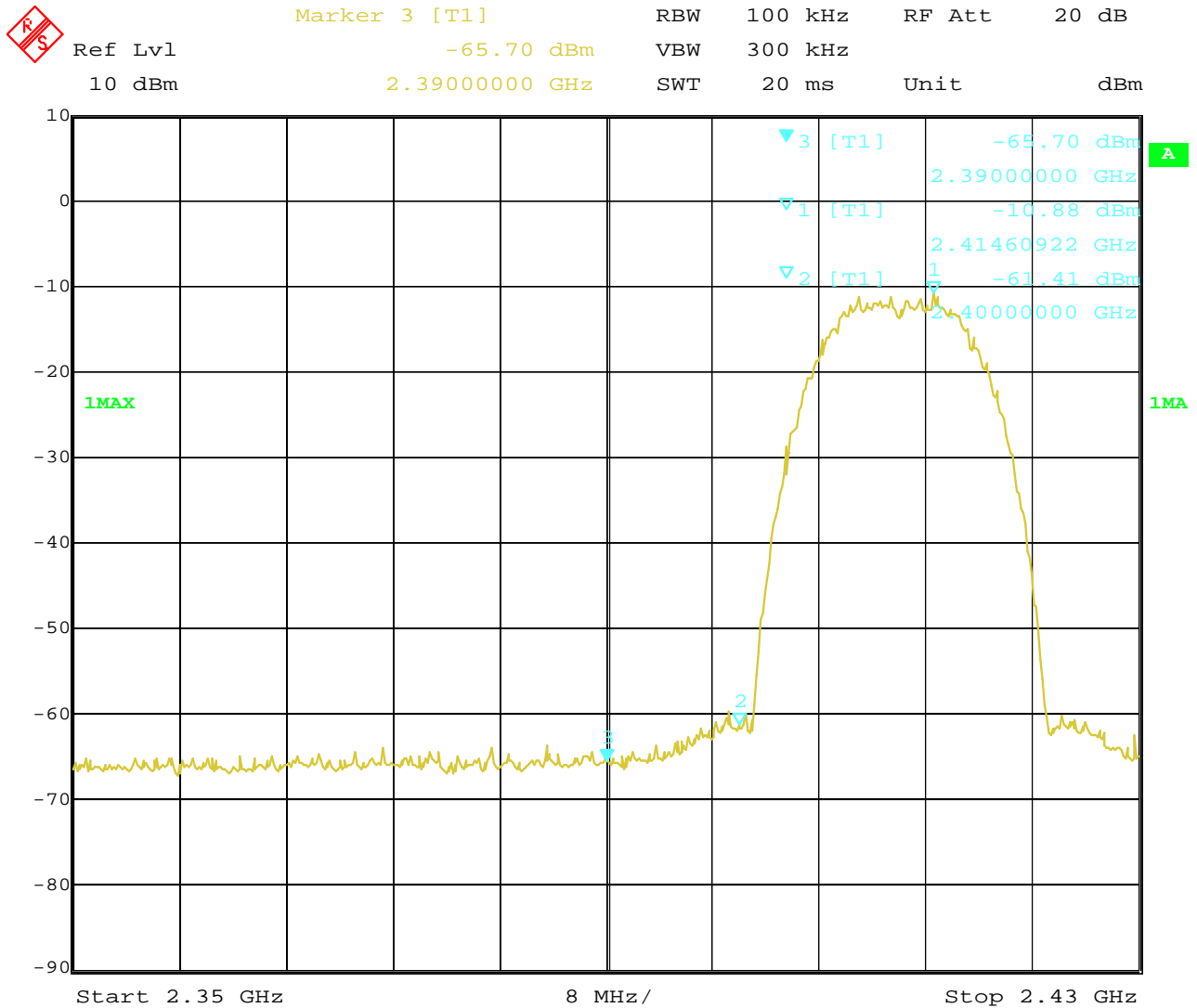
For 802.11b mode

CH01 at 11Mbps

10.4 Band-edge Measurement

EUT	Dash Camera	Model	G309
Mode	Keeping Transmitting	Input Voltage	DC5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 20.AUG.2024 15:04:44

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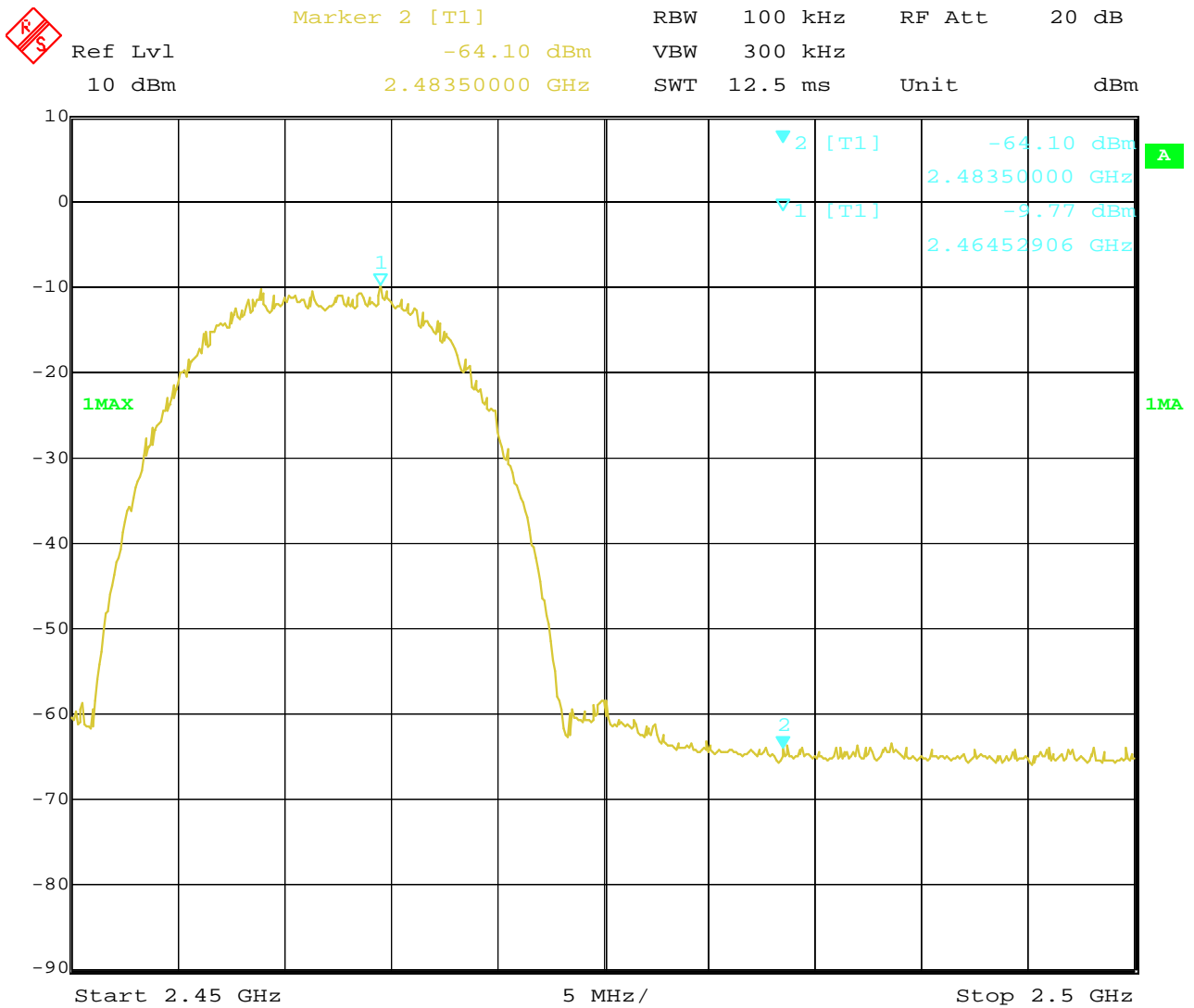


CH11 at 11Mbps

10.4 Band-edge Measurement

EUT	Dash Camera	Model	G309
Mode	Keeping Transmitting	Input Voltage	DC5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 20.AUG.2024 15:08:24

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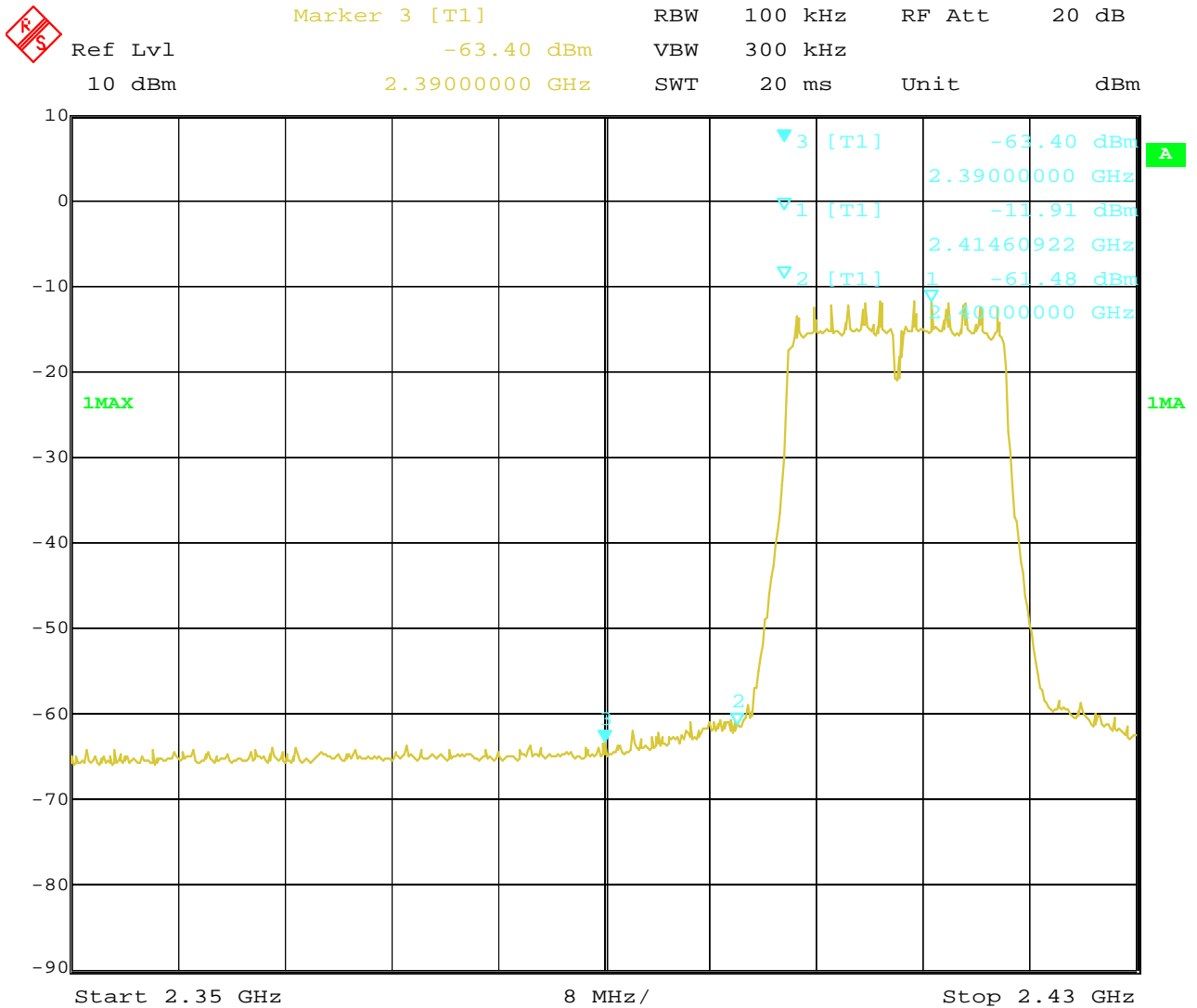
For 802.11g mode

CH01 at 6Mbps

10.4 Band-edge Measurement

EUT	Dash Camera	Model	G309
Mode	Keeping Transmitting	Input Voltage	DC5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 20.AUG.2024 15:41:09

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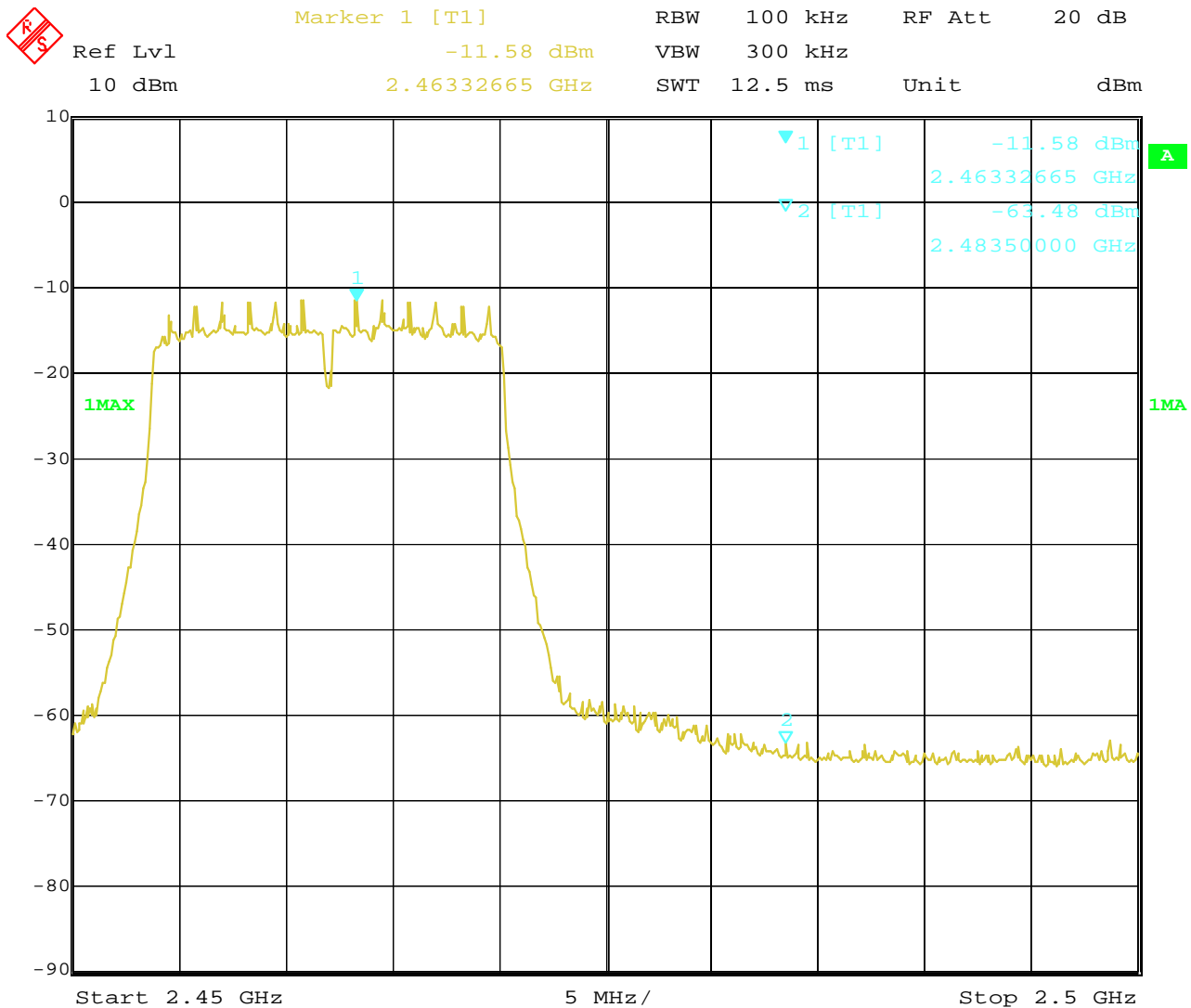


CH11 at 6Mbps

10.4 Band-edge Measurement

EUT	Dash Camera	Model	G309
Mode	Keeping Transmitting	Input Voltage	DC5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 20.AUG.2024 15:43:44

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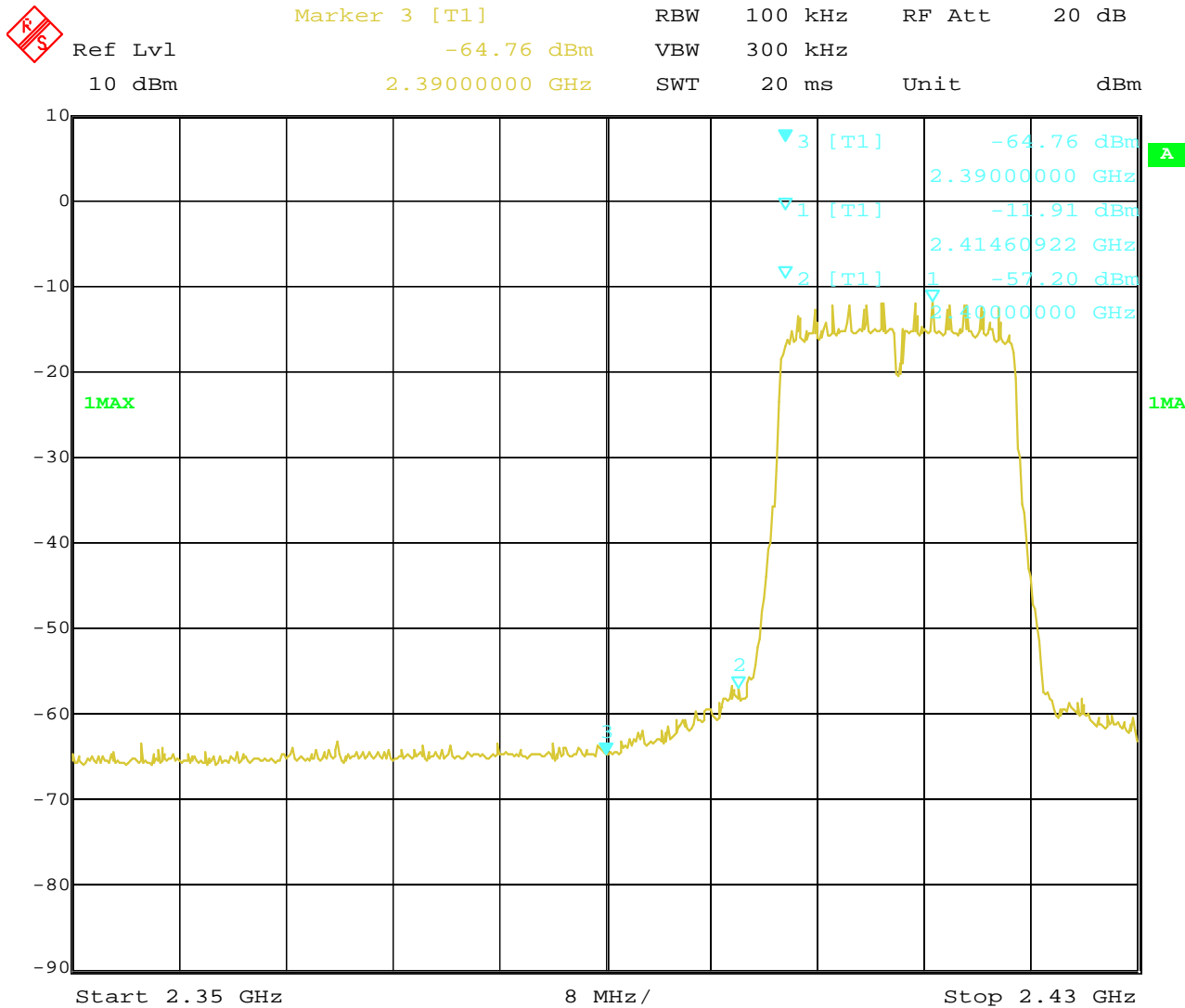
For 802.11n (HT20) mode

CH01 at mcs0

10.4 Band-edge Measurement

EUT	Dash Camera	Model	G309
Mode	Keeping Transmitting	Input Voltage	DC5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 20.AUG.2024 16:24:36

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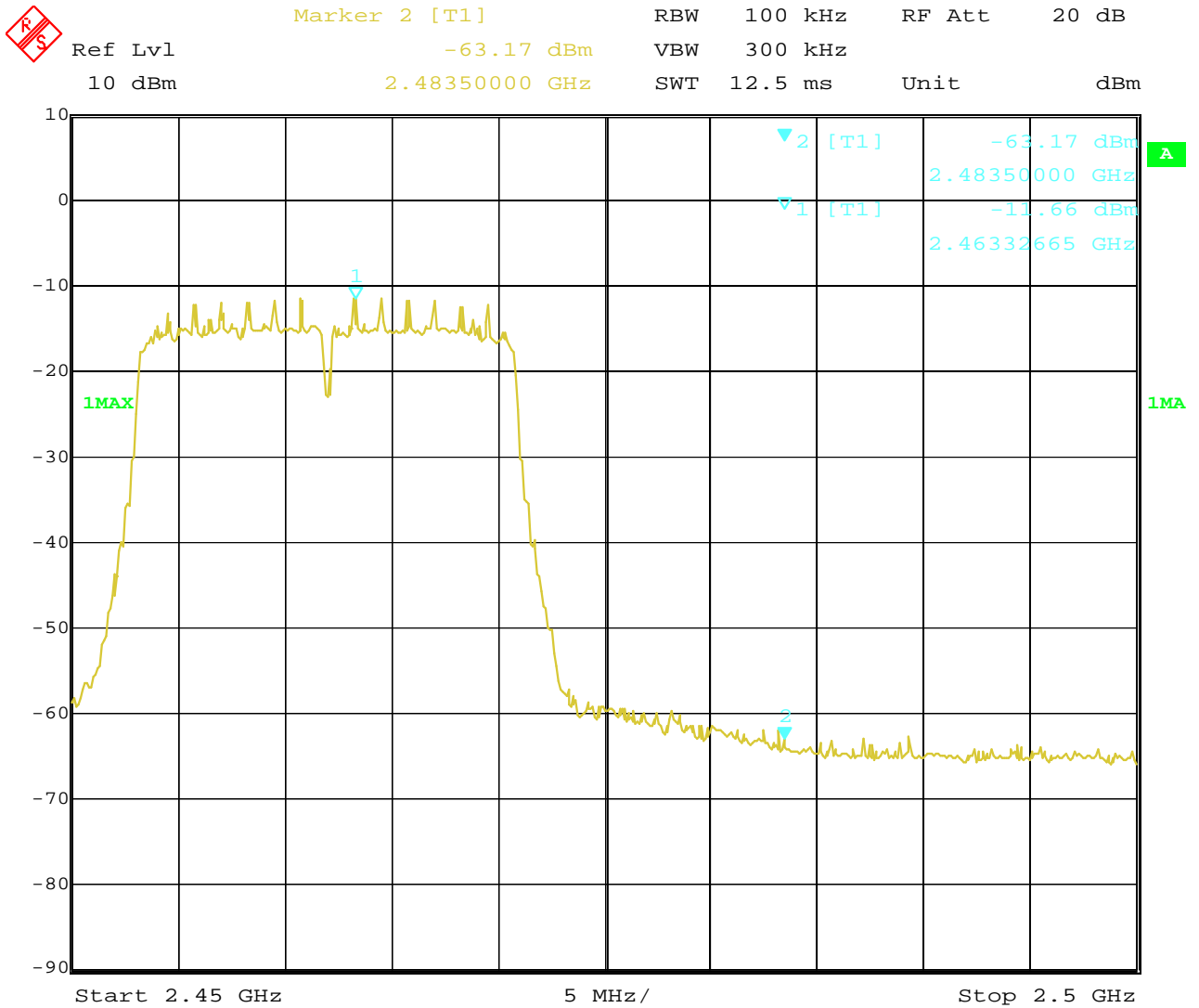


CH11 at mcs0

10.4 Band-edge Measurement

EUT	Dash Camera	Model	G309
Mode	Keeping Transmitting	Input Voltage	DC5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 20.AUG.2024 16:28:09

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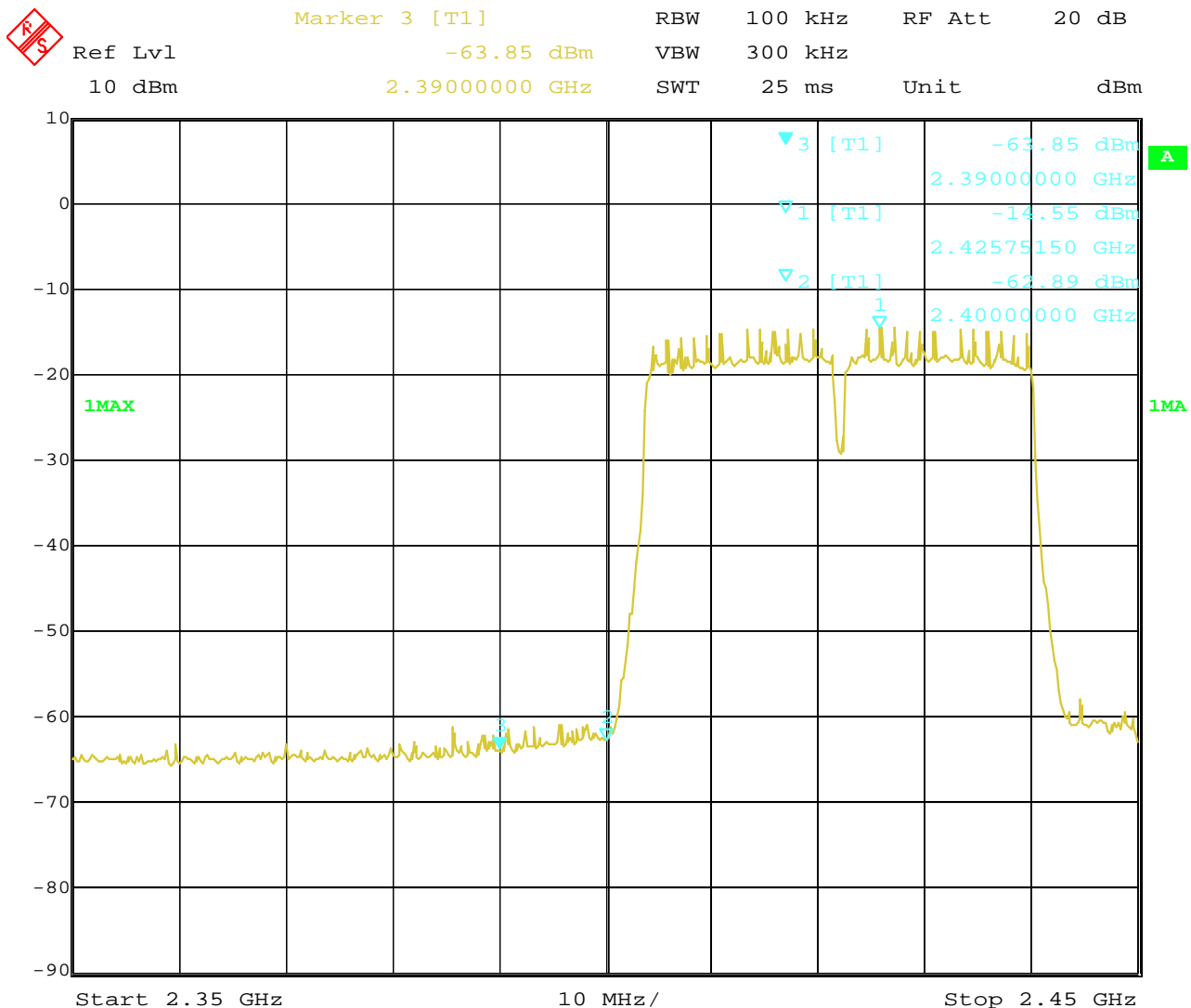
For 802.11n (HT40) mode

CH03 at mcs0

10.4 Band-edge and Restricted band Measurement

EUT	Dash Camera	Model	G309
Mode	Keeping Transmitting	Input Voltage	DC5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 20.AUG.2024 17:36:45

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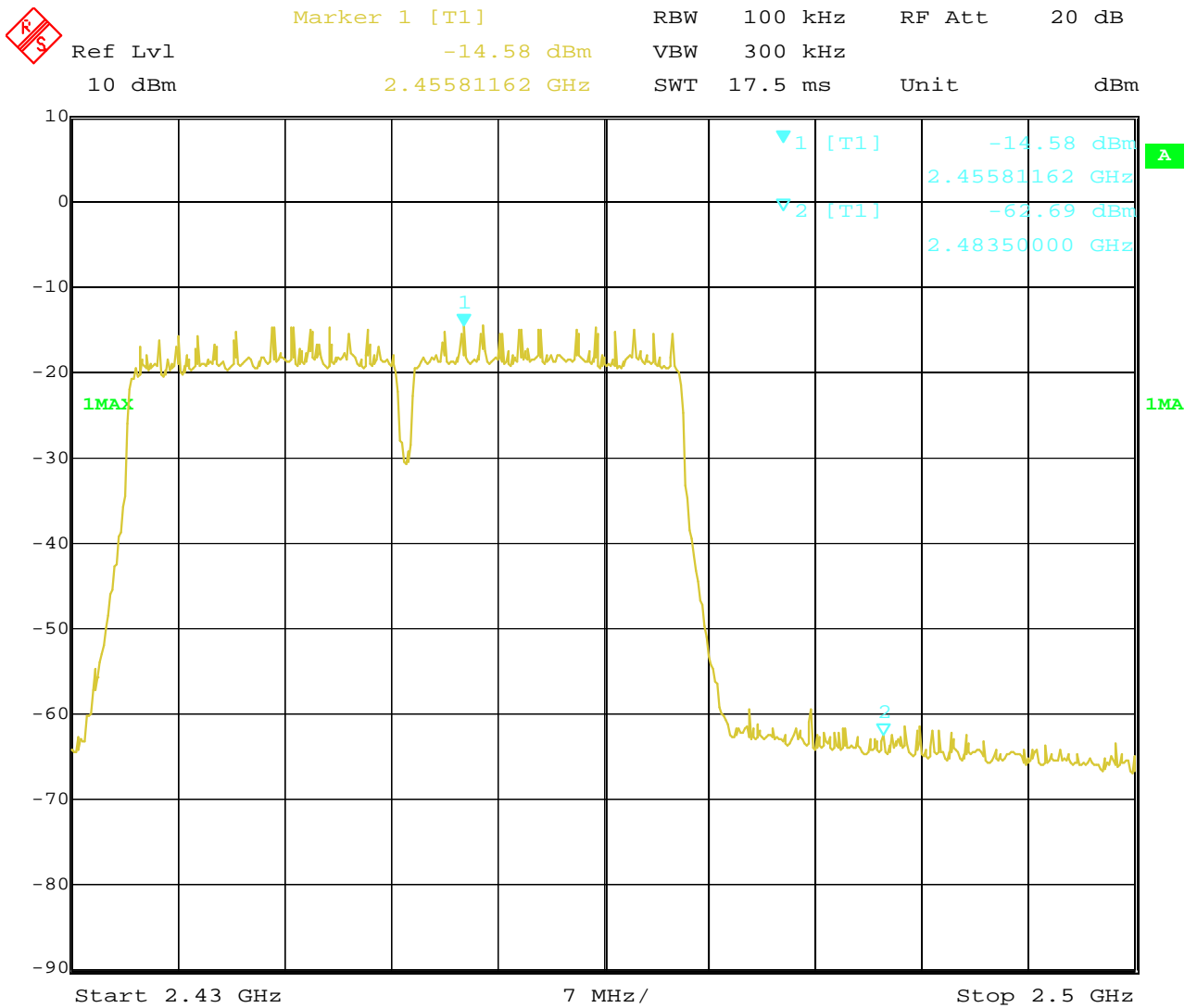


CH09 at mcs0

10.4 Band-edge and Restricted band Measurement

EUT	Dash Camera	Model	G309
Mode	Keeping Transmitting	Input Voltage	DC5V
Temperature	24 deg. C,	Humidity	56% RH
Test Result:	Pass	Detector	PK

Test Figure:



Date: 20.AUG.2024 17:38:02

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10.5 Restricted band Measurement

EUT	Dash Camera		Model	G309
Mode	Keeping Transmitting		Test Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, Low Channel, Horizontal				
2390	PK (dB μ V/m)	37.28	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11b mode, Low Channel, Vertical				
2390	PK (dB μ V/m)	41.38	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)

10.5 Restricted band Measurement

EUT	Dash Camera		Model	G309
Mode	Keeping Transmitting		Test Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11b mode, High Channel, Horizontal				
2483.5	PK (dB μ V/m)	37.39	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11b mode, High Channel, Vertical				
2483.5	PK (dB μ V/m)	42.32	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)

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10.5 Restricted band Measurement

EUT	Dash Camera		Model	G309
Mode	Keeping Transmitting		Test Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, Low Channel, Horizontal				
2390	PK (dB μ V/m)	37.26	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11g mode, Low Channel, Vertical				
2390	PK (dB μ V/m)	42.28	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)

10.5 Restricted band Measurement

EUT	Dash Camera		Model	G309
Mode	Keeping Transmitting		Test Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11g mode, High Channel, Horizontal				
2483.5	PK (dB μ V/m)	38.60	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11g mode, High Channel, Vertical				
2483.5	PK (dB μ V/m)	43.41	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)

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10.5 Restricted band Measurement

EUT	Dash Camera		Model	G309
Mode	Keeping Transmitting		Test Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT20 mode, Low Channel, Horizontal				
2390	PK (dB μ V/m)	38.09	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11n HT20 mode, Low Channel, Vertical				
2390	PK (dB μ V/m)	44.05	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)

10.5 Restricted band Measurement

EUT	Dash Camera		Model	G309
Mode	Keeping Transmitting		Test Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT20 mode, High Channel, Horizontal				
2483.5	PK (dB μ V/m)	37.98	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11n HT20 mode, High Channel, Vertical				
2483.5	PK (dB μ V/m)	44.67	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)

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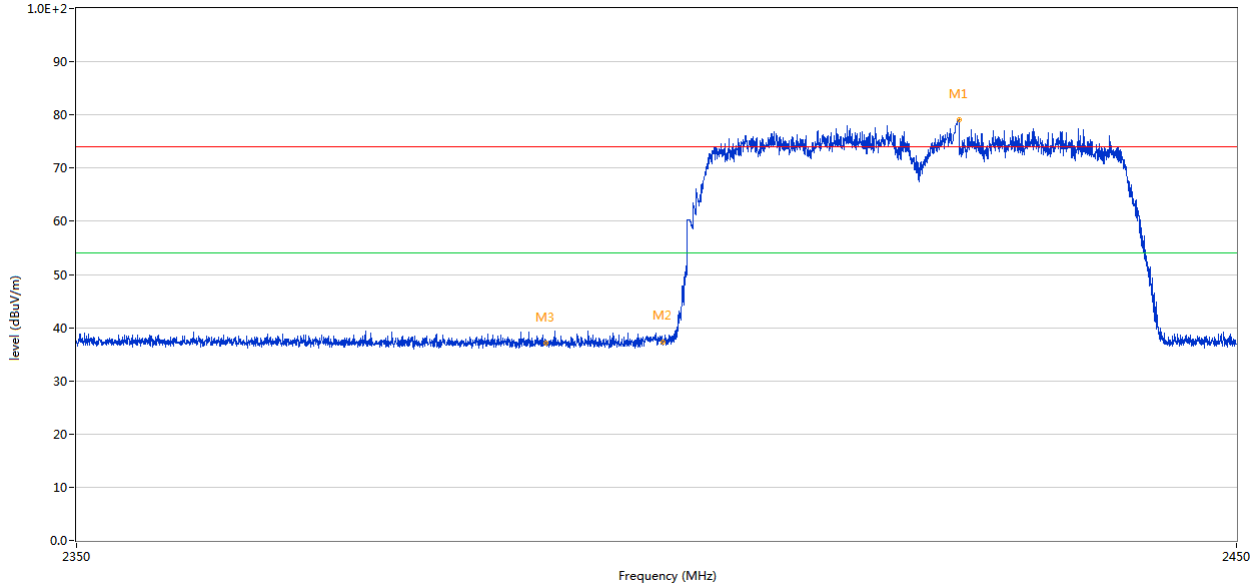


10.5 Restricted band Measurement

EUT	Dash Camera		Model	G309
Mode	Keeping Transmitting		Test Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT40 mode, Low Channel, Horizontal				
2390	PK (dB μ V/m)	37.08	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11n HT40 mode, Low Channel Vertical				
2390	PK (dB μ V/m)	44.33	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)

Test Plots

FCC Part 15C Class B 1GHz-18GHz -2
1.0E+2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2425.681	79.15	-3.57	74.0	5.15	Peak	308.00	100	Horizontal	N/A
2	2400.000	37.29	-3.57	74.0	-36.71	Peak	156.50	100	Horizontal	Pass
3	2390.000	37.08	-3.53	74.0	-36.92	Peak	85.60	100	Horizontal	Pass

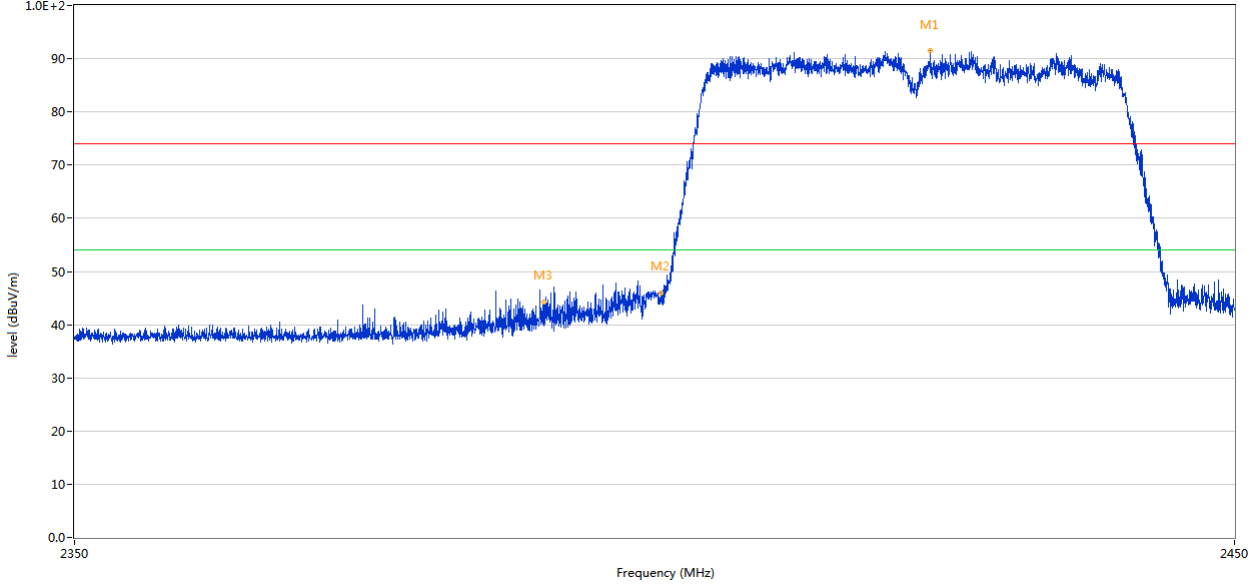
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FCC Part 15C Class B 1GHz-18GHz -2
 1.0E+2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2423.407	91.45	-3.57	74.0	17.45	Peak	293.00	100	Vertical	N/A
2	2400.000	45.97	-3.57	74.0	-28.03	Peak	238.50	100	Vertical	Pass
3	2390.000	44.33	-3.53	74.0	-29.67	Peak	242.60	100	Vertical	Pass

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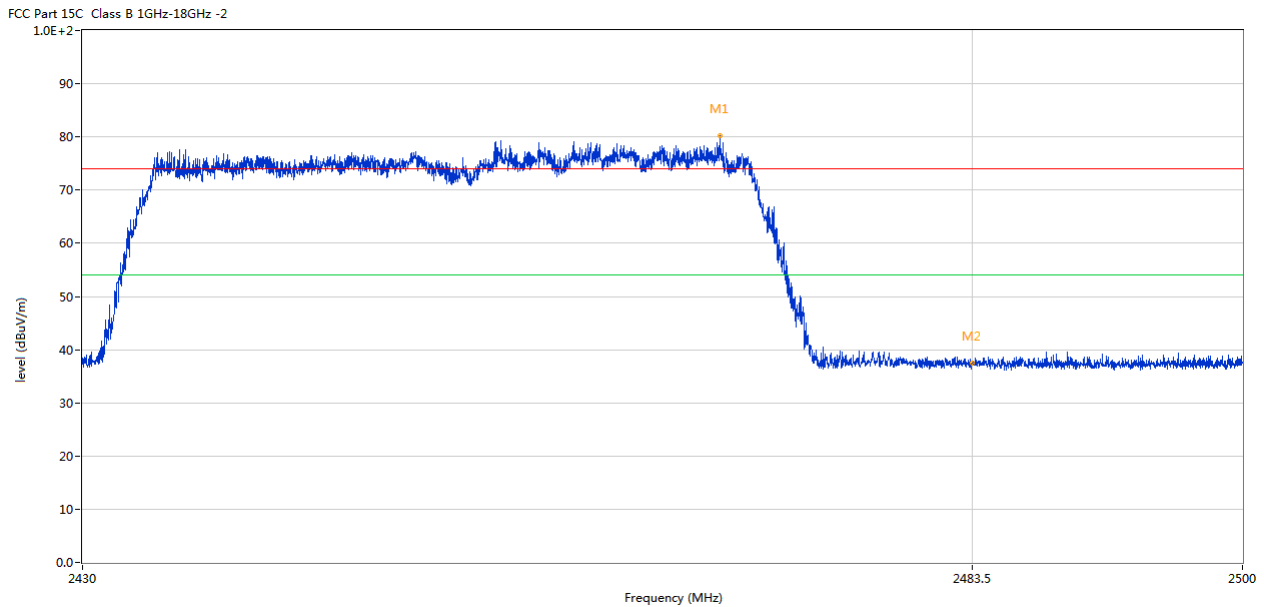
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10.5 Restricted band Measurement

EUT	Dash Camera		Model	G309
Mode	Keeping Transmitting		Test Voltage	DC5V
Temperature	24 deg. C,		Humidity	56% RH
Test Result:	Pass		Detector	PK
802.11n HT40 mode, High Channel, Horizontal				
2483.5	PK (dB μ V/m)	37.48	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)
802.11n HT40 mode, High Channel, Vertical				
2483.5	PK (dB μ V/m)	44.83	Limit	74(dB μ V/m)
	AV (dB μ V/m)	--		54(dB μ V/m)

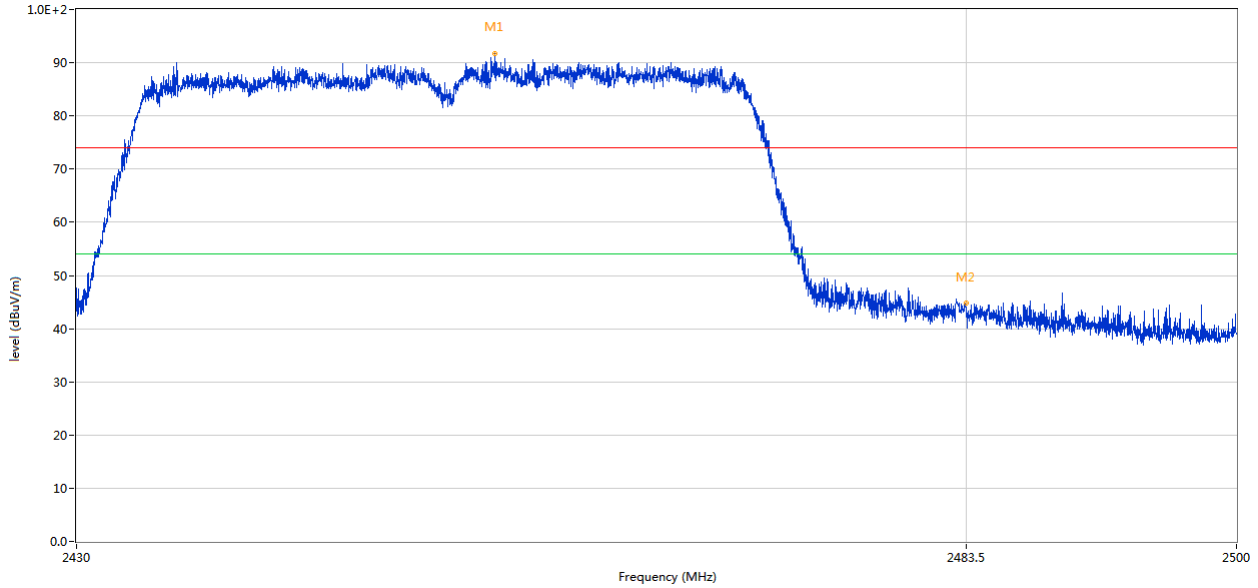


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2468.228	80.24	-3.57	74.0	6.24	Peak	110.00	100	Horizontal	N/A
2	2483.500	37.48	-3.57	74.0	-36.52	Peak	172.22	100	Horizontal	Pass

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FCC Part 15C Class B 1GHz-18GHz -2



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Over Limit (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2455.036	91.67	-3.57	74.0	17.67	Peak	129.00	100	Vertical	N/A
2	2483.500	44.83	-3.57	74.0	-29.17	Peak	42.00	100	Vertical	Pass

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11.0 Antenna Requirement

11.1 Standard Applicable

For intentional device, according to FCC 47 CFR Section 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.

And according to FCC 47 CFR Section 15.247 (b), if transmitter antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

11.2 Antenna Connected construction

Chip antenna used. The gain of the antenna is 3.8dBi.

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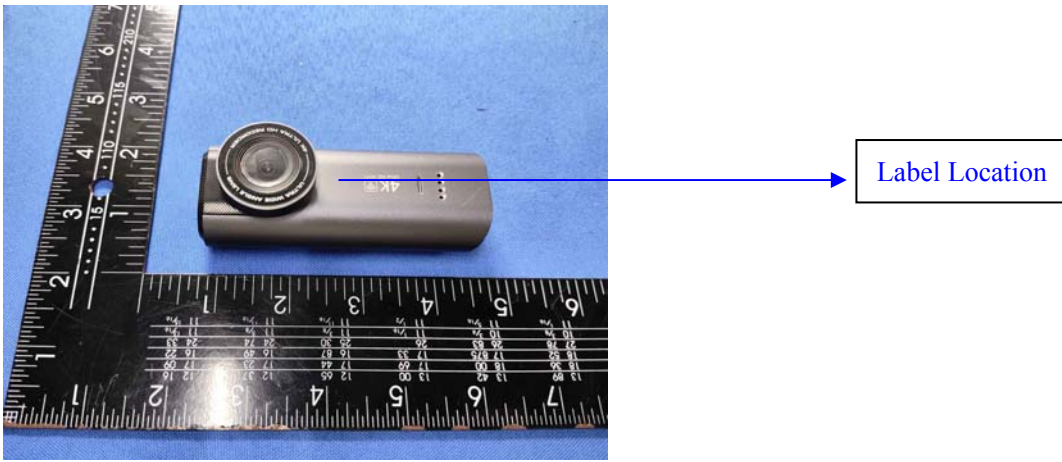


12.0 FCC ID Label

FCC ID: 2BDUR-1606037

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

Mark Location:



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13.0 Photo of testing

Conducted Emission Test Setup: N/A

Radiated Emission Test Setup:



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Photographs – EUT

Outside View



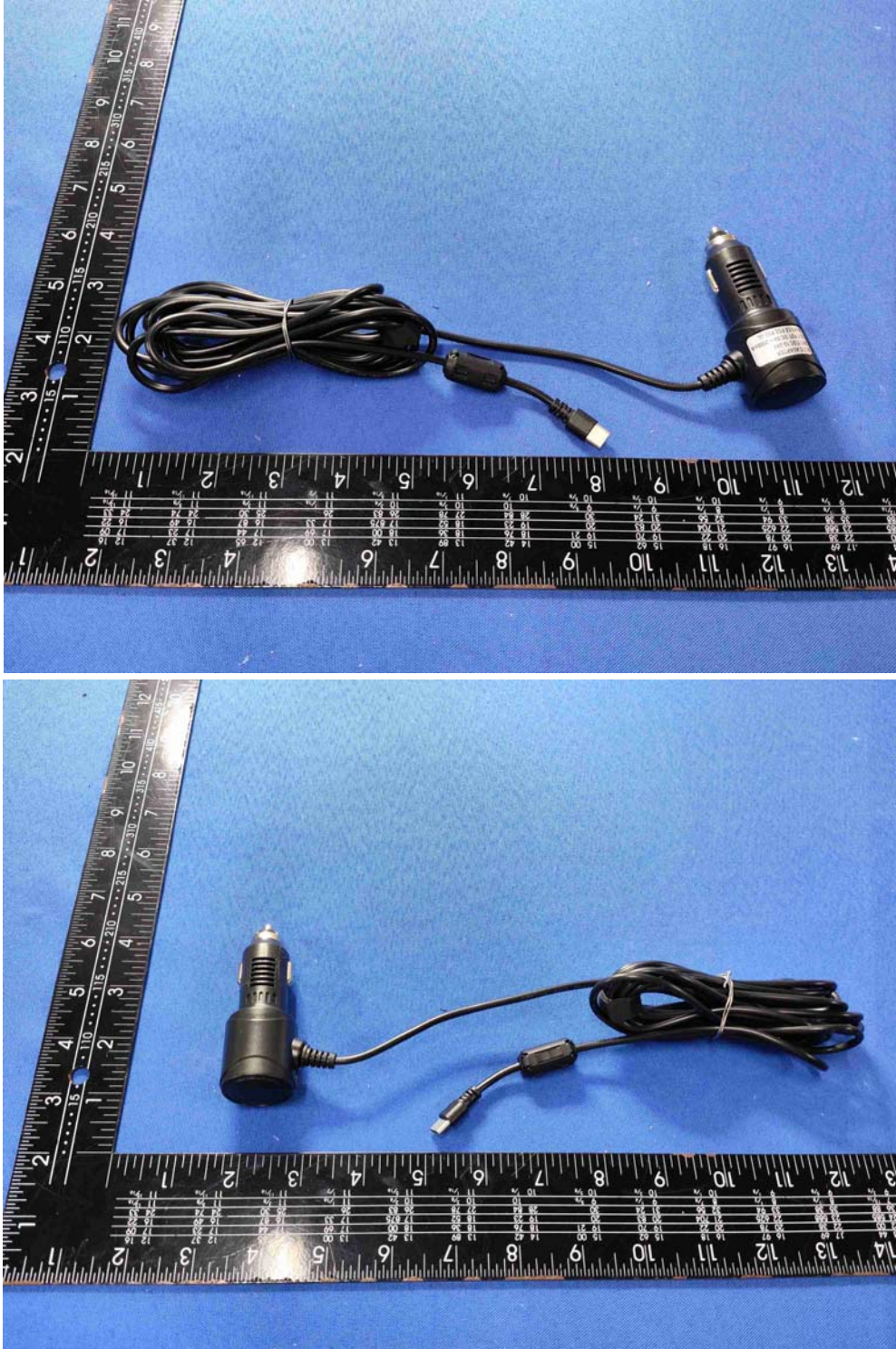
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Outside View

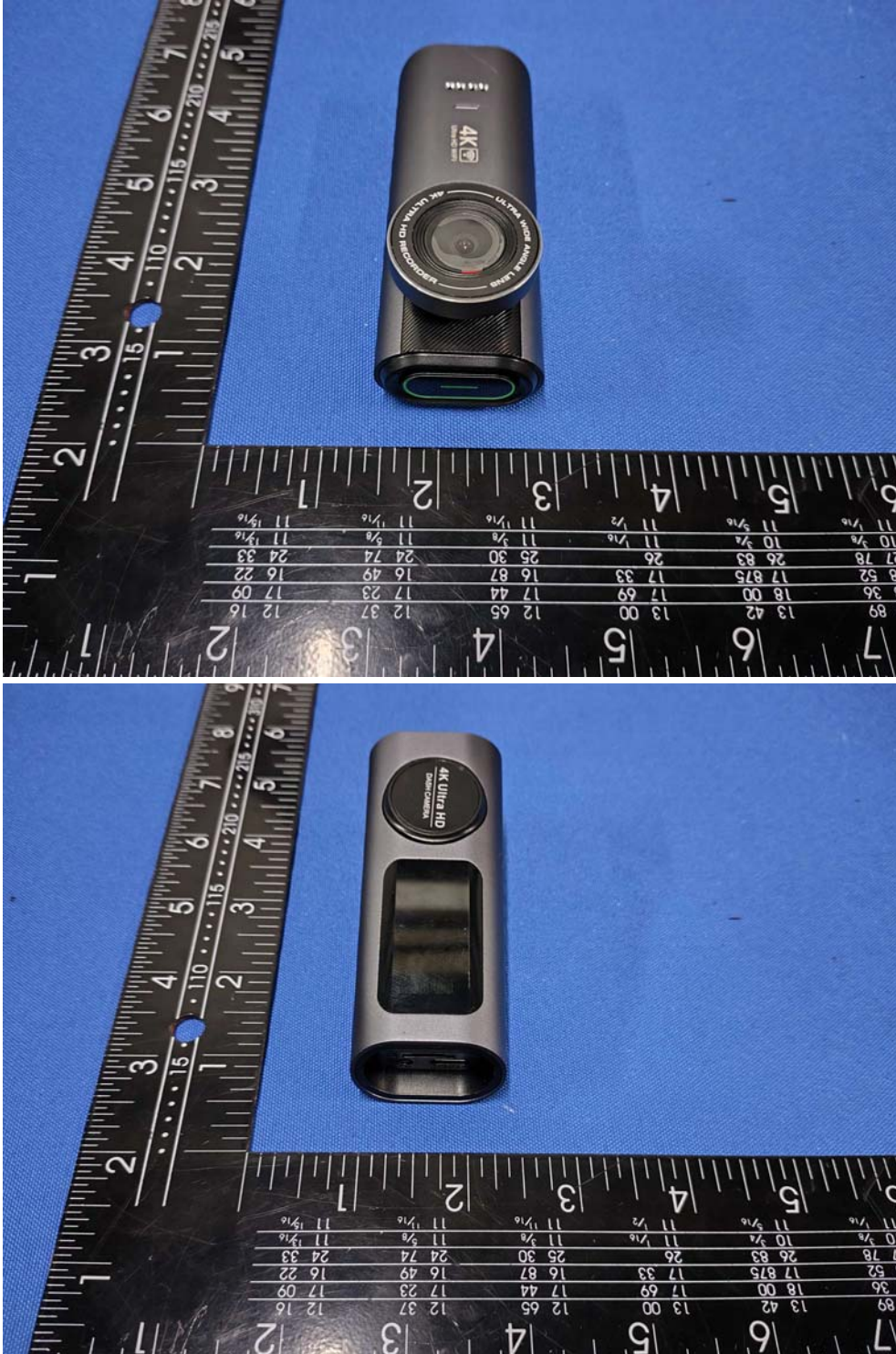


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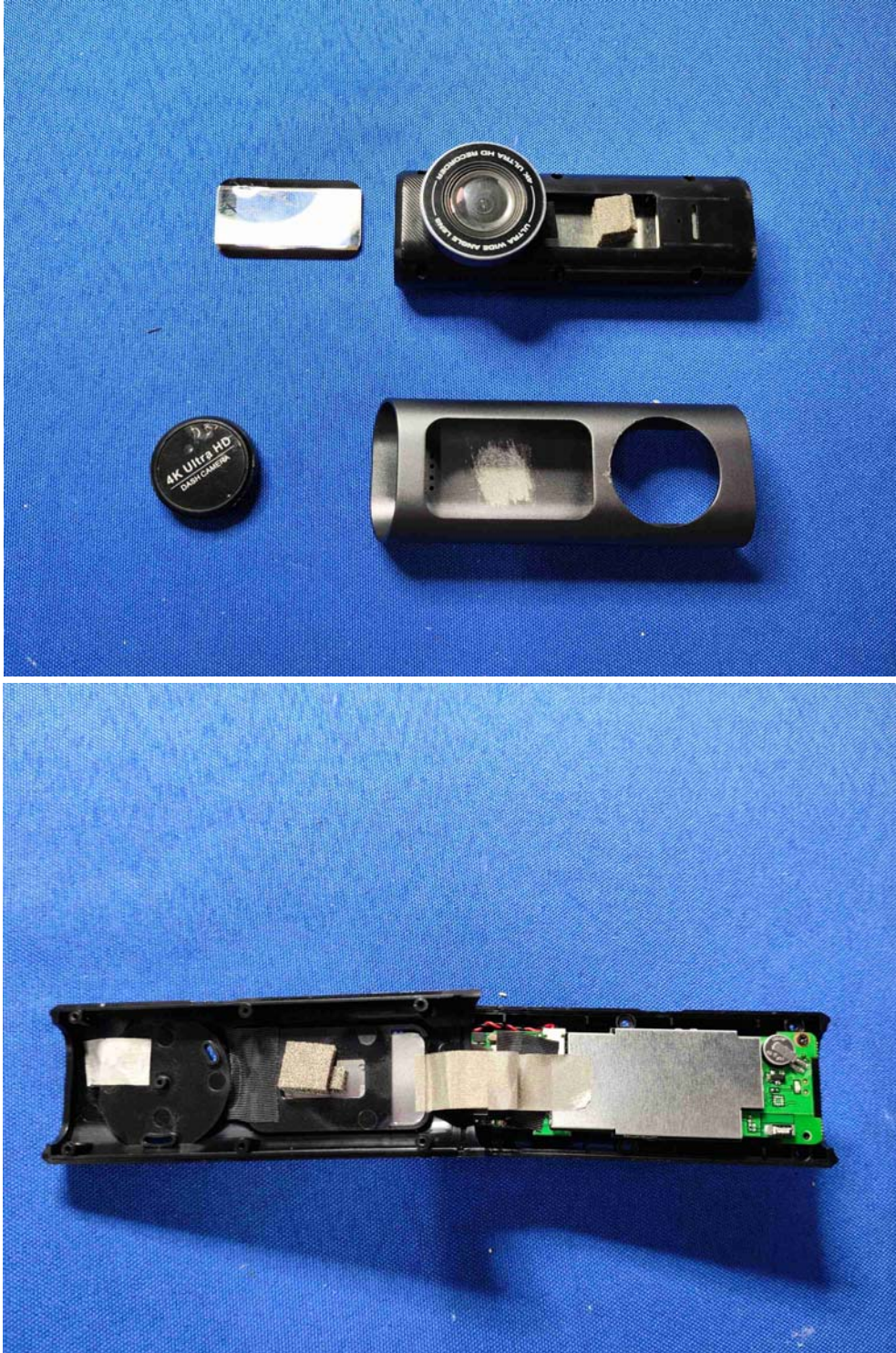


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Inside View

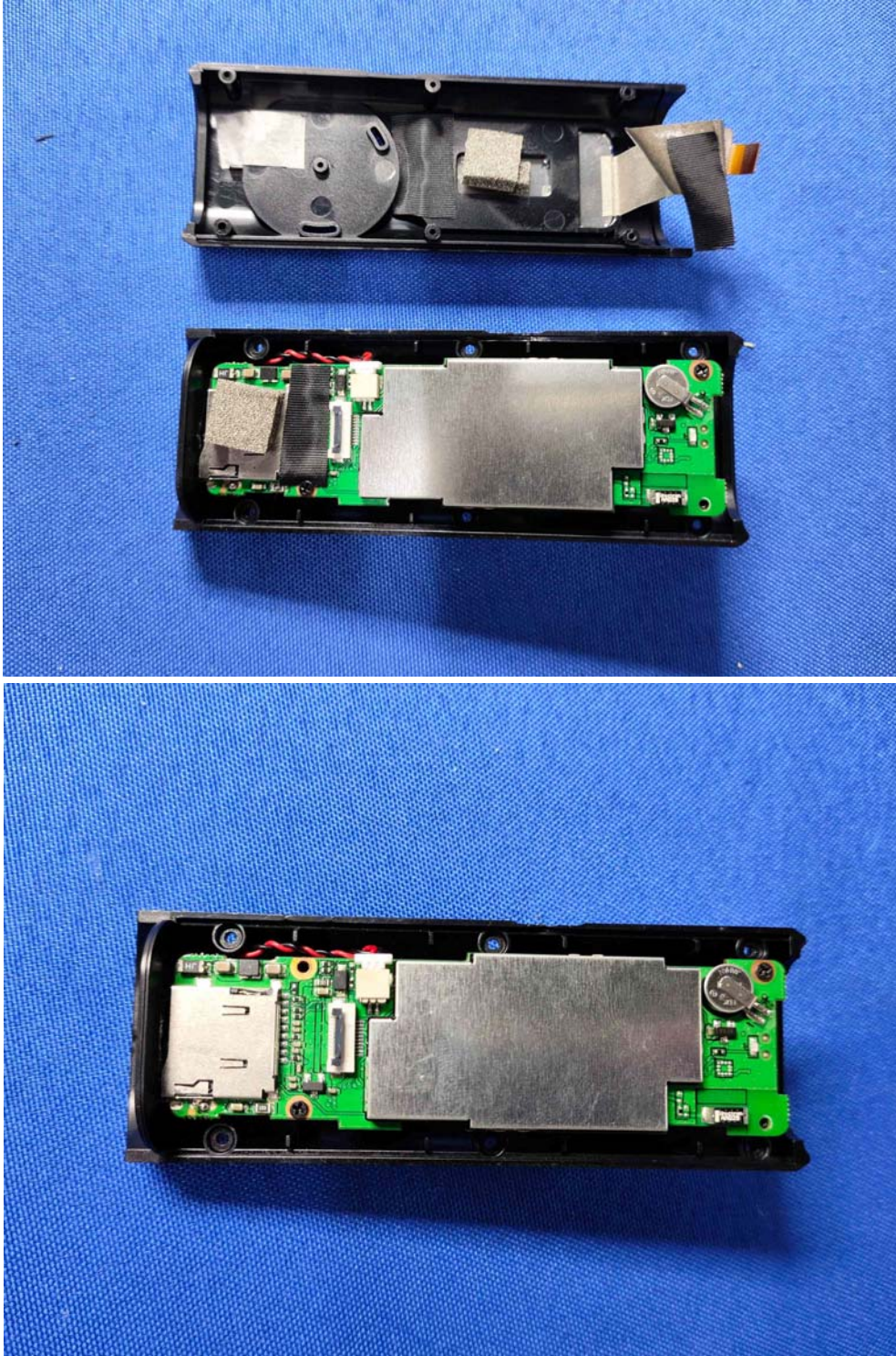


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Inside View

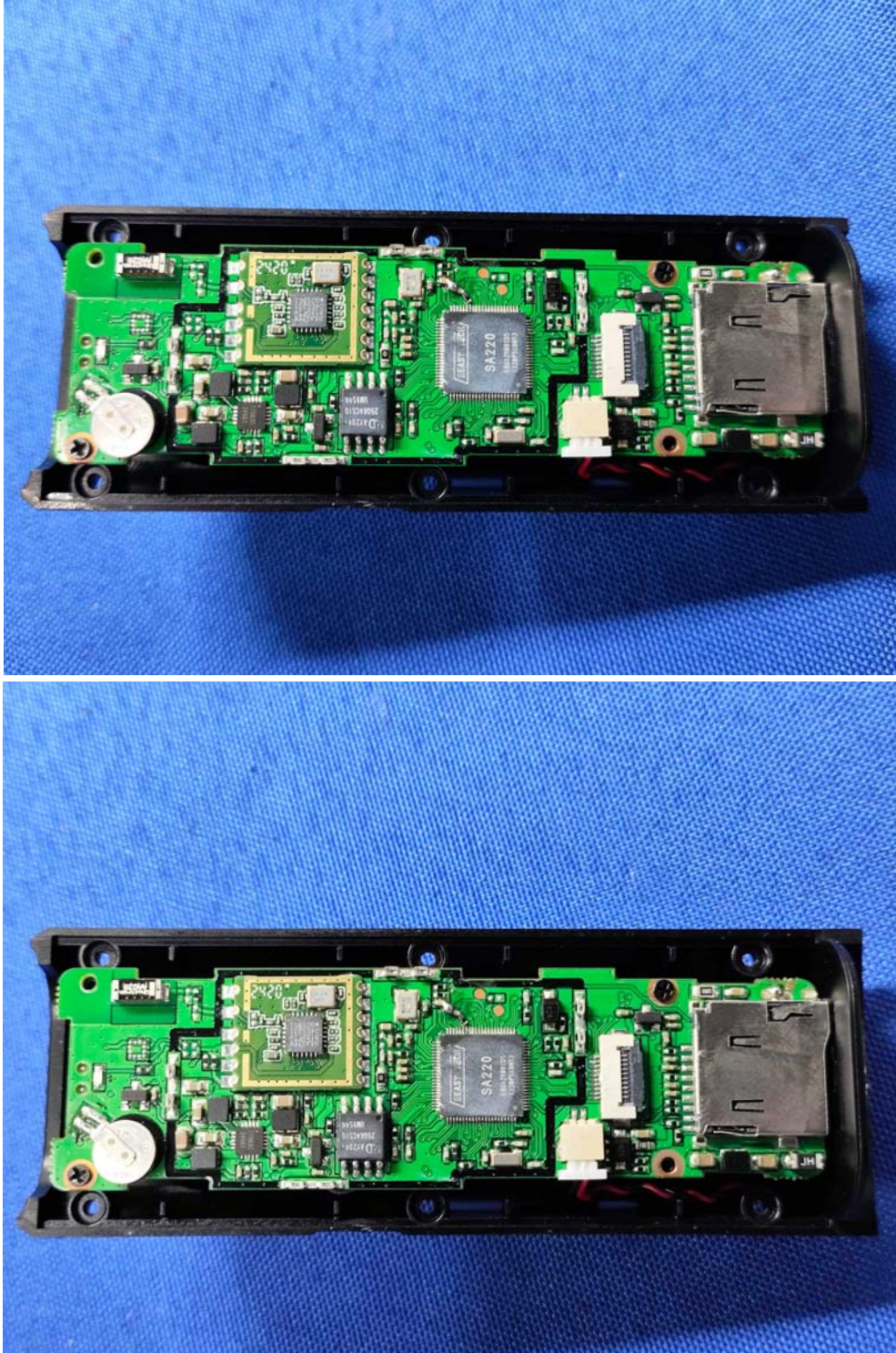


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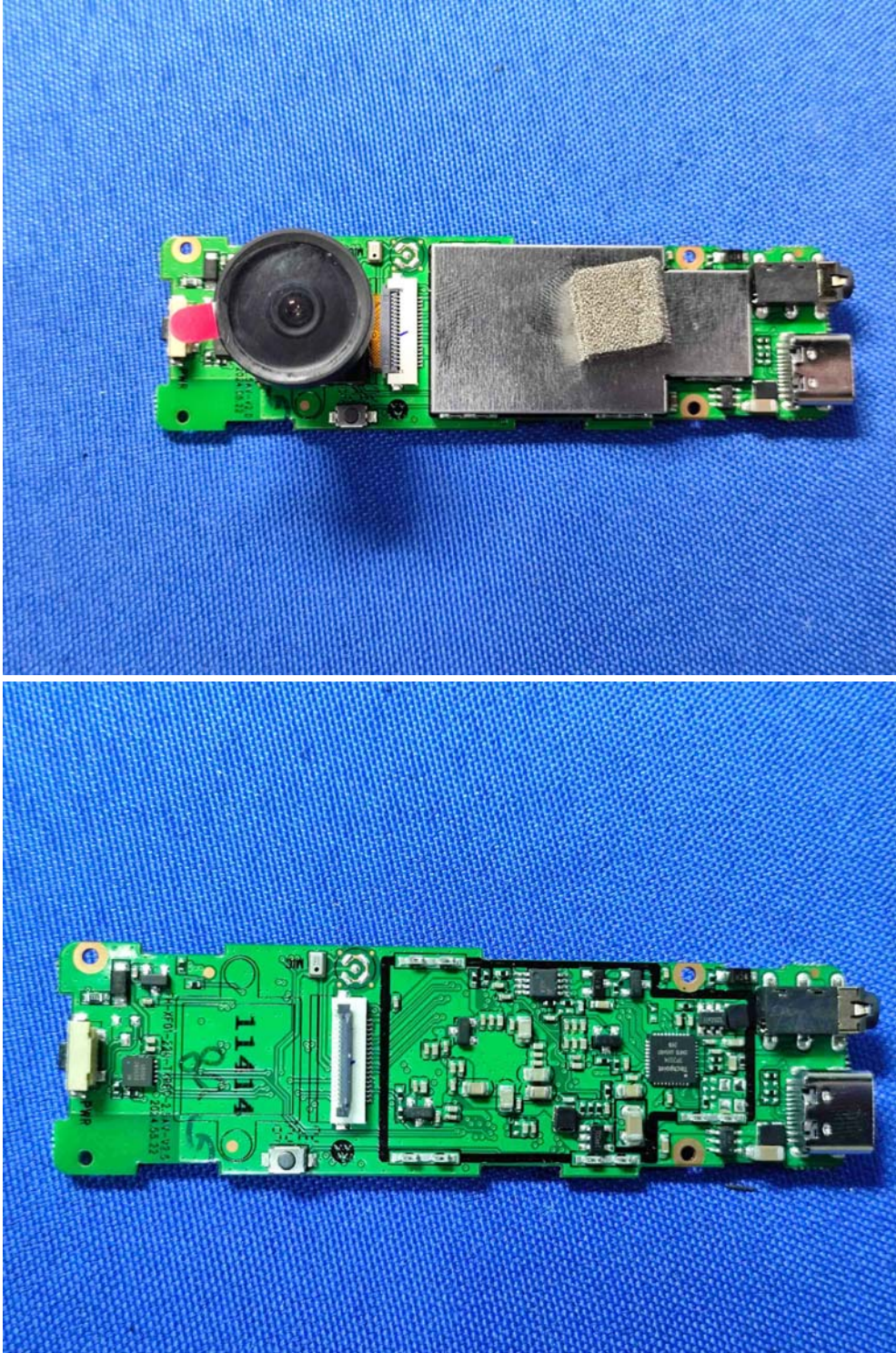


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Inside View



End of the report

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