

TEST REPORT

Report No.: CTC2026281304
FCC ID.....: WY2703AC6
Applicant.....: Faurecia Clarion Electronics (Xiamen) Co., Ltd.
Address.....: 6F, No.40, Guanri Road, Software Park Stage II, Xiamen, China
Manufacturer.....: Faurecia Clarion Electronics (Xiamen) Co., Ltd.
Address: 6F, No.40, Guanri Road, Software Park Stage II, Xiamen, China
Product Name: COCKPIT DOMAIN CONTROLLER
Trade Mark: clarion
Model/Type reference.....: 703AC6
Listed Model: /
Standard: FCC CFR Title 47 Part 15 Subpart C Section 15.247
Test Report Form No: CTC-TR-057_A5
Master TRF.....: Dated 2026-06-01
Date of receipt of test sample.....: Jun. 2, 2026
Date of testing.....: Jun. 2, 2026~ Jun. 18, 2026
Date of issue.....: July 07, 2026
Result.....: PASS

Compiled by:

(Printed name+signature)

Alicia Liu

Supervised by:

(Printed name+signature)

Eric Zhang

Approved by:

(Printed name+signature)

Totti Zhao

Alicia Liu
Eric Zhang
Totti Zhao



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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

[FCC Rules Part 15.247](#): Operation within the bands 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz.

[ANSI C63.10-2020](#): American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

1.2. Report Version

Revised No.	Report No.	Date of issue	Description
01	CTC2026281304	July 07, 2026	Original

1.3. Test Description

FCC Part 15 Subpart C (15.247)			
Test Item	Standard Section	Result	Note
Antenna Requirement	15.203	Pass	/
Conducted Emission	15.207	N/A	N/A
Conducted Band Edge and Spurious Emissions	15.247(d)	Pass	/
Radiated Band Edge and Spurious Emissions	15.205&15.209&15.247(d)	Pass	/
6dB Bandwidth	15.247(a)(2)	Pass	/
Conducted Max Output Power	15.247(b)(3)	Pass	/
Power Spectral Density	15.247(e)	Pass	/
Transmitter Radiated Spurious	15.209&15.247(d)	Pass	/

Note:

1. The measurement uncertainty is not included in the test result.
2. N/A: means this test item is not applicable for this device according to the technology characteristic of device.

1.4. Test Facility

Address of the report laboratory

CTC Laboratories, Inc.

Add: Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhu Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

Laboratory accreditation

The test facility is recognized, certified, or accredited by the following organizations:

A2LA-Lab Cert. No.: 4340.01

CTC Laboratories, Inc. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

Industry Canada (Registration No.: 9783A, CAB Identifier: CN0029)

CTC Laboratories, Inc. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 9783A on Jan, 2016.

FCC (Registration No.: 951311, Designation Number CN1208)

CTC Laboratories, Inc. 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 951311, Aug 26, 2017.

1.5. Measurement Uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM); Uncertainties in the measurement of mobile radio equipment characteristics; Part 2" and is documented in the CTC Laboratories, Inc. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Below is the best measurement capability for CTC Laboratories, Inc.

Test Items	Measurement Uncertainty	Notes
DTS Bandwidth	$\pm 0.0196\%$	(1)
Maximum Conducted Output Power	± 0.686 dB	(1)
Maximum Power Spectral Density Level	± 0.743 dB	(1)
Band-edge Compliance	± 1.328 dB	(1)
Unwanted Emissions In Non-restricted Freq Bands	9kHz-1GHz: ± 0.746 dB 1GHz-26GHz: ± 1.328 dB	(1)
Conducted Emissions 9kHz~30MHz	± 3.08 dB	(1)
Radiated Emissions 30~1000MHz	± 4.51 dB	(1)
Radiated Emissions 1~18GHz	± 5.84 dB	(1)
Radiated Emissions 18~40GHz	± 6.12 dB	(1)

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

1.6. Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15 °C to 35 °C
Relative Humidity:	20 % to 75 %
Air Pressure:	101 kPa

2. GENERAL INFORMATION

2.1. Client Information

Applicant:	Faurecia Clarion Electronics (Xiamen) Co., Ltd.
Address:	6F, No.40, Guanri Road, Software Park Stage II, Xiamen, China
Manufacturer:	Faurecia Clarion Electronics (Xiamen) Co., Ltd.
Address:	6F, No.40, Guanri Road, Software Park Stage II, Xiamen, China
Factory:	Faurecia Clarion Electronics (Fengcheng) Co., Ltd.
Address:	No. 12 High-Tech Road, Fengcheng High Technology Industry Park, Yichun City, Jiangxi Province, P.R. China

2.2. General Description of EUT

Product Name:	COCKPIT DOMAIN CONTROLLER
Trade Mark:	clarion
Model/Type reference:	703AC6
Listed Model:	/
Model Difference:	/
Sample ID:	CTC-GC260407-001-S001
Power Supply:	Input: DC13.5V
Hardware Version:	/
Software Version:	/

2.4G Wi-Fi

Modulation:	802.11b: DSSS (CCK, DQPSK, DBPSK) 802.11g/n: OFDM (BPSK, QPSK, 16QAM, 64QAM)
Operation Frequency:	802.11b/g/n(HT20): 2412MHz~2462MHz 802.11n(HT40): 2422MHz~2452MHz
Channel Number:	802.11b/g/n(HT20): 11 channels 802.11n(HT40): 7 channels
Channel Separation:	5MHz
Antenna Type:	PCB Antenna
Antenna Gain:	3.32dBi

2.3. Accessory Equipment Information

Equipment Information			
Name	Model	S/N	Manufacturer
Notebook	ThinkBook 14 G3 ACL	MP246Q6S	Lenovo
HP502 CC&CV DC POWER SUPPLY	HP502	/	HP
Cable Information			
Name	Shielded Type	Ferrite Core	Length
/	/	/	/
Test Software Information			
Name	Version	/	/
/	/	/	/

2.4. Operation State

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

Channel	Frequency (MHz)
01	2412
02	2417
03	2422
04	2427
05	2432
06	2437
07	2442
08	2447
09	2452
10	2457
11	2462

Note: CH 01~CH 11 for 802.11b/g/n(HT20), CH 03~CH 09 for 802.11n(HT40).

Data Rated:

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is the worst case mode.

Test Mode	Data Rate (worst mode)
802.11b	1Mbps
802.11g	6Mbps
802.11n(HT20)/ (HT40)	HT-MCS0

Test Mode:

For RF test items:
The engineering test program was provided and enabled to make EUT continuous transmit.
For AC power line conducted emissions:
The EUT was set to connect with the WLAN AP under large package sizes transmission.
For Radiated spurious emissions test item:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

2.5. Measurement Instruments List

Radiated emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-759	Oct. 17, 2025	Oct. 16, 2027
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-648	Dec. 12, 2024	Dec. 11, 2026
3	Test Receiver	Keysight	N9038A	MY56400071	Dec. 13, 2025	Dec. 12, 2026
4	Broadband Amplifier	Schwarzbeck	BBV9743B	259	Dec. 13, 2025	Dec. 12, 2026
5	Mirowave Broadband Amplifier	Schwarzbeck	BBV9718C	111	Dec. 13, 2025	Dec. 12, 2026
6	RE33L-001	COMM	/	014 (9kHz-1GHz)	Feb. 09, 2026	Feb. 08, 2027
7	RE33L-002	COMM	/	015 (9kHz-1GHz)	Feb. 09, 2026	Feb. 08, 2027
8	RE33H-001	SUHB SUCOFLEX	/	016 (1GHz-18GHz)	Feb. 09, 2026	Feb. 08, 2027
9	RE33H-002	HUBENR	/	017 (1GHz-18GHz)	Feb. 09, 2026	Feb. 08, 2027
10	RE33H-003	HUBENR	/	018 (1GHz-18GHz)	Feb. 09, 2026	Feb. 08, 2027
11	RE33H-003	HUBENR	/	019 (18GHz-40GHz)	Feb. 09, 2026	Feb. 08, 2027
12	3m chamber 3	YIHENG	EE106	/	Aug. 29, 2023	Aug. 28, 2026
Test Software						
Name		Manufacturer		Software Version		
EZ-EMC		FARA		FA-03A2		

Radiated emission						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
1	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-1013	Dec. 18, 2024	Dec. 17, 2026
2	Horn Antenna	Schwarzbeck	BBHA 9120D	9120D-647	Oct. 17, 2025	Oct. 16, 2027
3	Spectrum Analyzer	R&S	FSV40-N	101654	Dec. 13, 2025	Dec. 12, 2026
4	Pre-Amplifier	SONOMA	310	186194	Dec. 13, 2025	Dec. 12, 2026
5	Low Noise Pre-Amplifier	EMCI	EMC051835	980075	Dec. 13, 2025	Dec. 12, 2026
6	Test Receiver	R&S	ESCI7	100967	Dec. 13, 2025	Dec. 12, 2026
7	RE32L-001	HUBENR	/	009 (9kHz-1GHz)	Feb. 09, 2026	Feb. 08, 2027
8	RE32L-002	HUBENR	/	010 (9kHz-1GHz)	Feb. 09, 2026	Feb. 08, 2027
9	RE32L-003	HUBENR	/	011 (9kHz-1GHz)	Feb. 09, 2026	Feb. 08, 2027
10	RE32H-001	HUBENR	/	012 (1GHz-18GHz)	Feb. 09, 2026	Feb. 08, 2027
11	RE32H-002	HUBENR	/	013 (1GHz-18GHz)	Feb. 09, 2026	Feb. 08, 2027
12	3m chamber 2	Frankonia	EE025	/	Oct. 19, 2024	Oct. 18, 2027
Test Software						
Name		Manufacturer		Software Version		
EZ-EMC		FARA		FA-03A2		

CTC Laboratories, Inc.

Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China Tel.: (86)755-27521059 Fax: (86)755-27521011 Http://www.sz-ctc.org.cn

TRF No:CTC-TR-057A5

Master TRF:Dated 2026-06-01

RF Test System – SRD						
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Until
1	Spectrum Analyzer	R&S	FSV40-N	101654	Dec. 13, 2025	Dec. 12, 2026
2	MXG Vector Signal Generator	Agilent	N5182A	MY47420864	Dec. 13, 2025	Dec. 12, 2026
3	PSG Analog Signal Generator	Agilent	E8257D	MY46521908	Dec. 13, 2025	Dec. 12, 2026
4	USB Wideband Power Sensor	Keysight	U2021XA	MY55130004	Mar. 25, 2026	Mar. 24, 2027
5	USB Wideband Power Sensor	Keysight	U2021XA	MY55130004	Mar. 25, 2026	Mar. 24, 2027
6	USB Wideband Power Sensor	Keysight	U2021XA	MY55130006	Mar. 25, 2026	Mar. 24, 2027
7	Wideband Radio Communication Tester	R&S	CMW500	102257	Mar. 25, 2026	Mar. 24, 2027
8	RF Control Unit	Tonscend	JS0806-2	/	Mar. 25, 2026	Mar. 24, 2027
9	RF Control Unit	Tonscend	JS0806-2	/	Mar. 25, 2026	Mar. 24, 2027
10	High and low temperature test chamber	ESPEC	MT3035	/	Mar. 25, 2026	Mar. 24, 2027
11	High and low temperature test chamber	ESPEC	MT3035	/	Mar. 25, 2026	Mar. 24, 2027
12	RF Cable	HUBER+SUHNER	SUCOFLEX101PE	RF-08	Apr. 16, 2025	Apr. 15, 2026
13	RF Cable	HUBER+SUHNER	SUCOFLEX101PE	RF-08	Apr. 16, 2026	Apr. 15, 2027
Test Software						
Name		Manufacturer			Software Version	
JS1120-3		Tonscend			V2.6.88.0346	

Note: 1. The Cal. Interval was one year.

2. The Cal. Interval was three years of the antenna.

3. The cable loss has been calculated in test result which connection between each test instruments.

3. TEST ITEM AND RESULTS

3.1. Radiated Emission

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.209

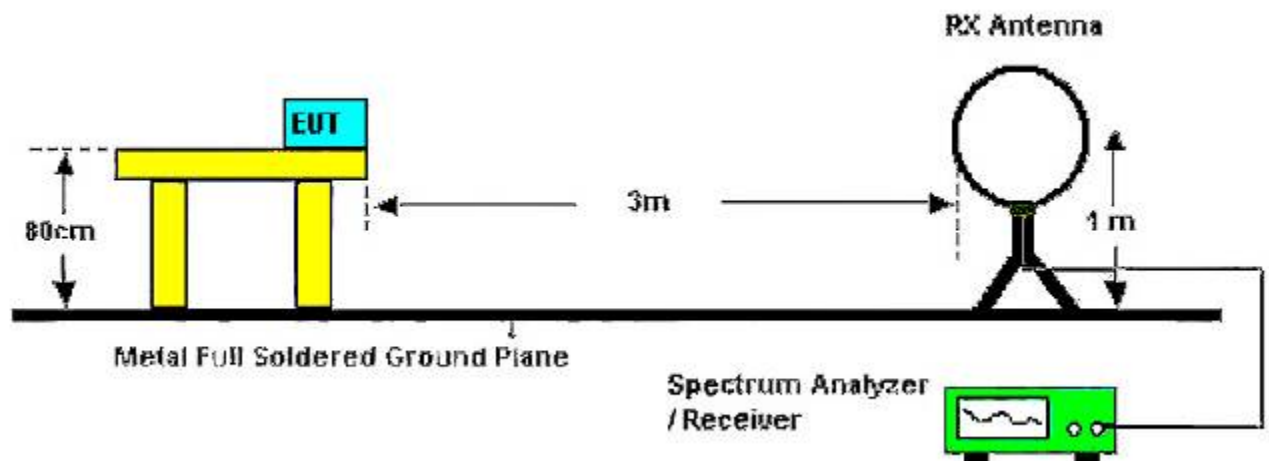
Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F (kHz)	300
0.490~1.705	24000/F (kHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
960~1000	500	3

Frequency Range (MHz)	dB μ V/m (at 3 meters)	
	Peak	Average
Above 1000	74	54

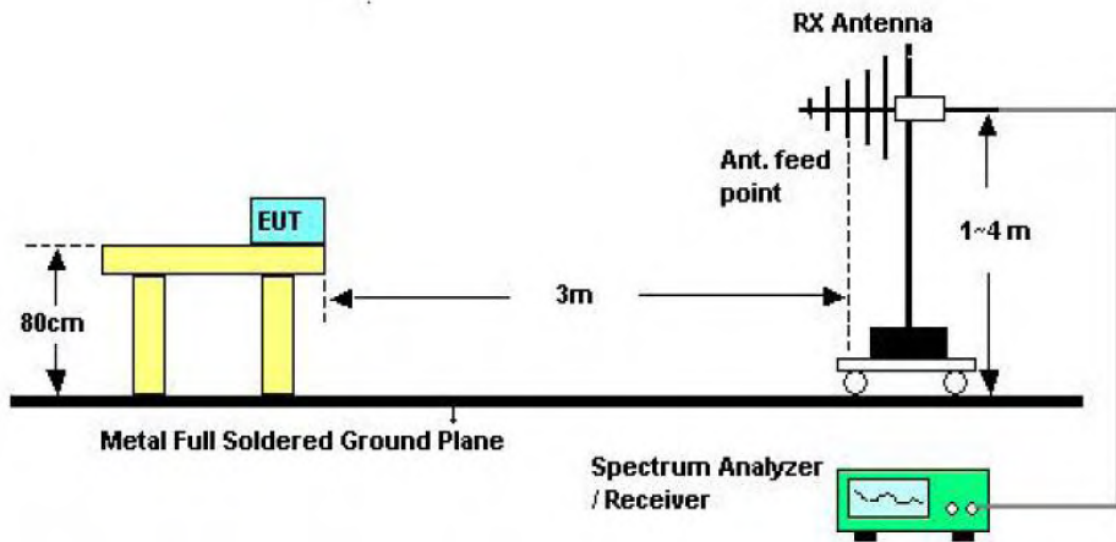
Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dB μ V/m)=20log Emission Level (μ V/m).

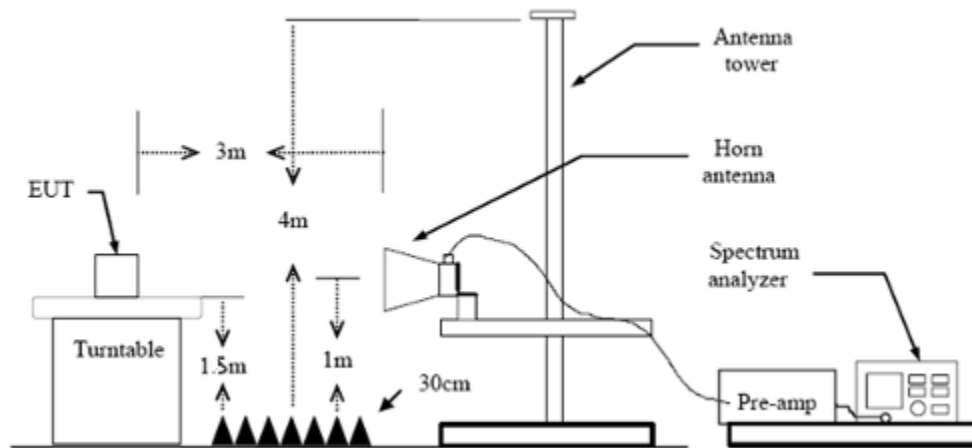
Test Configuration



Below 30MHz Test Setup



30-1000MHz Test Setup



Above 1GHz Test Setup

Test Procedure

1. The EUT was setup and tested according to ANSI C63.10:2020.
 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
 5. Set to the maximum power setting and enable the EUT transmit continuously.
 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) 9k – 150kHz:
RBW=300 Hz, VBW=1 kHz, Sweep=auto, Detector function=peak, Trace=max hold
 - (3) 0.15M – 30MHz:
RBW=10 kHz, VBW=30 kHz, Sweep=auto, Detector function=peak, Trace=max hold
 - (4) 30M - 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold
- If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the

peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(5) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=3MHz Peak detector for Peak value.

RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.8 Duty Cycle.

Test Mode

Please refer to the clause 2.4.

Test Result

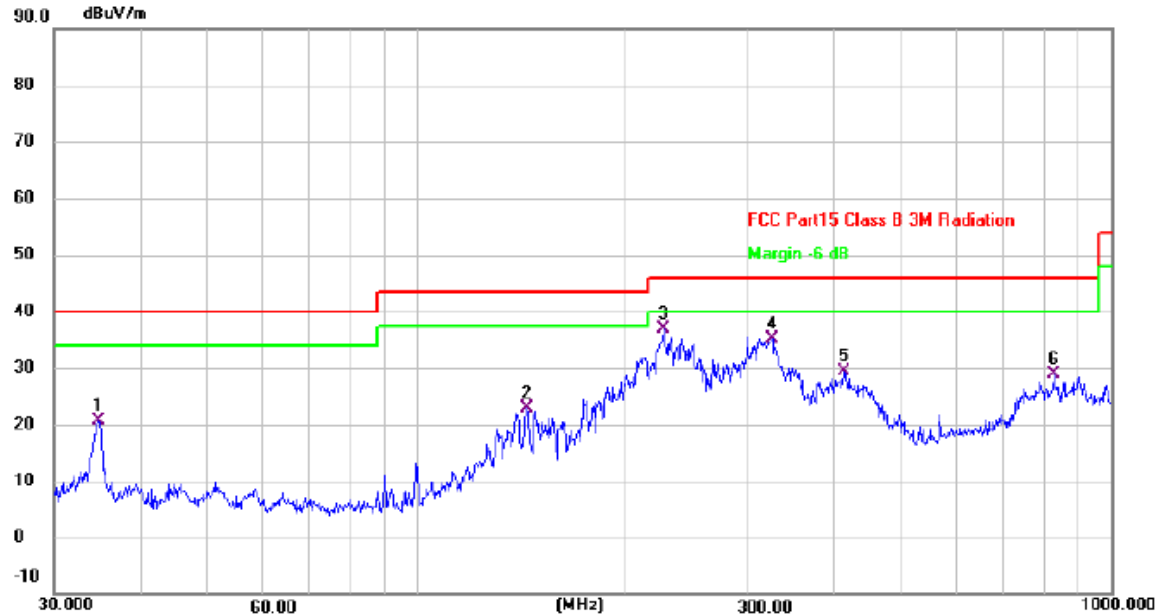
9 kHz~30 MHz

From 9 kHz to 30 MHz: The conclusion is PASS.

Note: The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

30MHz-1GHz

Ant. No.	Ant 1
Ant. Pol.	Horizontal
Test Mode:	TX 802.11b Mode 2412MHz
Remark:	Only worse case is reported.

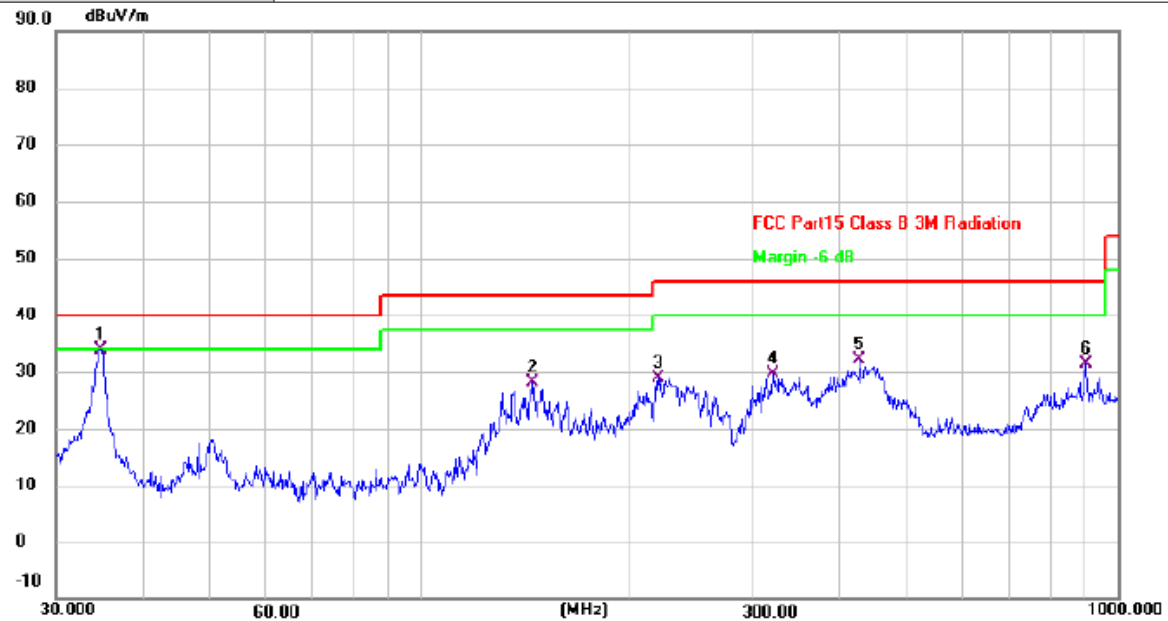


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	34.7602	39.17	-18.66	20.51	40.00	-19.49	QP
2	143.8295	40.80	-17.85	22.95	43.50	-20.55	QP
3 *	226.0994	56.63	-19.84	36.79	46.00	-9.21	QP
4	324.4561	51.60	-16.36	35.24	46.00	-10.76	QP
5	411.8240	43.61	-14.28	29.33	46.00	-16.67	QP
6	827.4934	34.19	-5.37	28.82	46.00	-17.18	QP

Remarks:

- Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor
- Margin value = Level -Limit value

Ant. No.	Ant 1
Ant. Pol.	Vertical
Test Mode:	TX 802.11b Mode 2412MHz
Remark:	Only worse case is reported.



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	34.7602	52.64	-18.66	33.98	40.00	-6.02	QP
2	144.8418	45.81	-17.80	28.01	43.50	-15.49	QP
3	219.0753	49.16	-20.25	28.91	46.00	-17.09	QP
4	319.9370	46.11	-16.44	29.67	46.00	-16.33	QP
5	426.5210	45.76	-13.72	32.04	46.00	-13.96	QP
6	900.1474	36.30	-4.82	31.48	46.00	-14.52	QP

Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2. Margin value = Level -Limit value

Above 1GHz

Ant. No.	Ant 1																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11b Mode 2412MHz																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><td>No.</td><td>Frequency (MHz)</td><td>Reading (dBUV)</td><td>Factor (dB/m)</td><td>Level (dBUV/m)</td><td>Limit (dBUV/m)</td><td>Margin (dB)</td><td>Detector</td></tr><tr><td>1 *</td><td>4823.919</td><td>28.55</td><td>1.04</td><td>29.59</td><td>54.00</td><td>-24.41</td><td>AVG</td></tr><tr><td>2</td><td>4824.432</td><td>40.45</td><td>1.04</td><td>41.49</td><td>74.00</td><td>-32.51</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	4823.919	28.55	1.04	29.59	54.00	-24.41	AVG	2	4824.432	40.45	1.04	41.49	74.00	-32.51	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	4823.919	28.55	1.04	29.59	54.00	-24.41	AVG																								
2	4824.432	40.45	1.04	41.49	74.00	-32.51	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	Ant 1																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11b Mode 2412MHz																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><td>No.</td><td>Frequency (MHz)</td><td>Reading (dBUV)</td><td>Factor (dB/m)</td><td>Level (dBUV/m)</td><td>Limit (dBUV/m)</td><td>Margin (dB)</td><td>Detector</td></tr><tr><td>1 *</td><td>4823.517</td><td>28.73</td><td>1.04</td><td>29.77</td><td>54.00</td><td>-24.23</td><td>AVG</td></tr><tr><td>2</td><td>4824.360</td><td>40.85</td><td>1.04</td><td>41.89</td><td>74.00</td><td>-32.11</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	4823.517	28.73	1.04	29.77	54.00	-24.23	AVG	2	4824.360	40.85	1.04	41.89	74.00	-32.11	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	4823.517	28.73	1.04	29.77	54.00	-24.23	AVG																								
2	4824.360	40.85	1.04	41.89	74.00	-32.11	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	Ant 1																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11b Mode 2437MHz																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><td>No.</td><td>Frequency (MHz)</td><td>Reading (dBUV)</td><td>Factor (dB/m)</td><td>Level (dBUV/m)</td><td>Limit (dBUV/m)</td><td>Margin (dB)</td><td>Detector</td></tr><tr><td>1 *</td><td>4873.985</td><td>28.47</td><td>1.23</td><td>29.70</td><td>54.00</td><td>-24.30</td><td>AVG</td></tr><tr><td>2</td><td>4874.843</td><td>40.43</td><td>1.23</td><td>41.66</td><td>74.00</td><td>-32.34</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	4873.985	28.47	1.23	29.70	54.00	-24.30	AVG	2	4874.843	40.43	1.23	41.66	74.00	-32.34	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	4873.985	28.47	1.23	29.70	54.00	-24.30	AVG																								
2	4874.843	40.43	1.23	41.66	74.00	-32.34	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	Ant 1																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11b Mode 2437MHz																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><td>No.</td><td>Frequency (MHz)</td><td>Reading (dBUV)</td><td>Factor (dB/m)</td><td>Level (dBUV/m)</td><td>Limit (dBUV/m)</td><td>Margin (dB)</td><td>Detector</td></tr><tr><td>1 *</td><td>4873.415</td><td>28.45</td><td>1.23</td><td>29.68</td><td>54.00</td><td>-24.32</td><td>AVG</td></tr><tr><td>2</td><td>4873.782</td><td>40.34</td><td>1.23</td><td>41.57</td><td>74.00</td><td>-32.43</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	4873.415	28.45	1.23	29.68	54.00	-24.32	AVG	2	4873.782	40.34	1.23	41.57	74.00	-32.43	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	4873.415	28.45	1.23	29.68	54.00	-24.32	AVG																								
2	4873.782	40.34	1.23	41.57	74.00	-32.43	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	Ant 1																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11b Mode 2462MHz																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><td>No.</td><td>Frequency (MHz)</td><td>Reading (dBuV)</td><td>Factor (dB/m)</td><td>Level (dBuV/m)</td><td>Limit (dBuV/m)</td><td>Margin (dB)</td><td>Detector</td></tr><tr><td>1</td><td>4923.093</td><td>40.08</td><td>1.40</td><td>41.48</td><td>74.00</td><td>-32.52</td><td>peak</td></tr><tr><td>2 *</td><td>4923.773</td><td>28.37</td><td>1.40</td><td>29.77</td><td>54.00</td><td>-24.23</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1	4923.093	40.08	1.40	41.48	74.00	-32.52	peak	2 *	4923.773	28.37	1.40	29.77	54.00	-24.23	AVG
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1	4923.093	40.08	1.40	41.48	74.00	-32.52	peak																								
2 *	4923.773	28.37	1.40	29.77	54.00	-24.23	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	Ant 1																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11b Mode 2462MHz																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><td>No.</td><td>Frequency (MHz)</td><td>Reading (dBUV)</td><td>Factor (dB/m)</td><td>Level (dBUV/m)</td><td>Limit (dBUV/m)</td><td>Margin (dB)</td><td>Detector</td></tr><tr><td>1</td><td>4924.605</td><td>40.19</td><td>1.40</td><td>41.59</td><td>74.00</td><td>-32.41</td><td>peak</td></tr><tr><td>2 *</td><td>4924.863</td><td>28.28</td><td>1.40</td><td>29.68</td><td>54.00</td><td>-24.32</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1	4924.605	40.19	1.40	41.59	74.00	-32.41	peak	2 *	4924.863	28.28	1.40	29.68	54.00	-24.32	AVG
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1	4924.605	40.19	1.40	41.59	74.00	-32.41	peak																								
2 *	4924.863	28.28	1.40	29.68	54.00	-24.32	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	Ant 1
Ant. Pol.	Horizontal
Test Mode:	TX 802.11g Mode 2412MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4823.539	40.74	1.04	41.78	74.00	-32.22	peak
2 *	4823.812	28.55	1.04	29.59	54.00	-24.41	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. No.	Ant 1
Ant. Pol.	Vertical
Test Mode:	TX 802.11g Mode 2412MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	4823.096	28.38	1.04	29.42	54.00	-24.58	AVG
2	4824.059	40.32	1.04	41.36	74.00	-32.64	peak

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. No.	Ant 1
Ant. Pol.	Horizontal
Test Mode:	TX 802.11g Mode 2437MHz
Remark:	No report for the emission which more than 20 dB below the prescribed limit.

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4873.355	41.17	1.22	42.39	74.00	-31.61	peak
2 *	4873.839	28.43	1.23	29.66	54.00	-24.34	AVG

Remarks:

1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor

2.Margin value = Level -Limit value

Ant. No.	Ant 1																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11g Mode 2437MHz																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><td>No.</td><td>Frequency (MHz)</td><td>Reading (dBUV)</td><td>Factor (dB/m)</td><td>Level (dBUV/m)</td><td>Limit (dBUV/m)</td><td>Margin (dB)</td><td>Detector</td></tr><tr><td>1</td><td>4874.340</td><td>40.47</td><td>1.23</td><td>41.70</td><td>74.00</td><td>-32.30</td><td>peak</td></tr><tr><td>2 *</td><td>4874.941</td><td>28.55</td><td>1.23</td><td>29.78</td><td>54.00</td><td>-24.22</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1	4874.340	40.47	1.23	41.70	74.00	-32.30	peak	2 *	4874.941	28.55	1.23	29.78	54.00	-24.22	AVG
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1	4874.340	40.47	1.23	41.70	74.00	-32.30	peak																								
2 *	4874.941	28.55	1.23	29.78	54.00	-24.22	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	Ant 1																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11g Mode 2462MHz																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><td>No.</td><td>Frequency (MHz)</td><td>Reading (dBuV)</td><td>Factor (dB/m)</td><td>Level (dBuV/m)</td><td>Limit (dBuV/m)</td><td>Margin (dB)</td><td>Detector</td></tr><tr><td>1 *</td><td>4923.223</td><td>28.34</td><td>1.40</td><td>29.74</td><td>54.00</td><td>-24.26</td><td>AVG</td></tr><tr><td>2</td><td>4923.326</td><td>39.92</td><td>1.40</td><td>41.32</td><td>74.00</td><td>-32.68</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	4923.223	28.34	1.40	29.74	54.00	-24.26	AVG	2	4923.326	39.92	1.40	41.32	74.00	-32.68	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	4923.223	28.34	1.40	29.74	54.00	-24.26	AVG																								
2	4923.326	39.92	1.40	41.32	74.00	-32.68	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	Ant 1																														
Ant. Pol.	Vertical																														
Test Mode:	TX 802.11g Mode 2462MHz																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><td>No.</td><td>Frequency (MHz)</td><td>Reading (dBUV)</td><td>Factor (dB/m)</td><td>Level (dBUV/m)</td><td>Limit (dBUV/m)</td><td>Margin (dB)</td><td>Detector</td></tr><tr><td>1</td><td>4923.385</td><td>40.54</td><td>1.40</td><td>41.94</td><td>74.00</td><td>-32.06</td><td>peak</td></tr><tr><td>2 *</td><td>4923.941</td><td>30.55</td><td>1.40</td><td>31.95</td><td>54.00</td><td>-22.05</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1	4923.385	40.54	1.40	41.94	74.00	-32.06	peak	2 *	4923.941	30.55	1.40	31.95	54.00	-22.05	AVG
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1	4923.385	40.54	1.40	41.94	74.00	-32.06	peak																								
2 *	4923.941	30.55	1.40	31.95	54.00	-22.05	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	Ant 1																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11n(HT20) Mode 2412MHz																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBUV)</th><th>Factor (dB/m)</th><th>Level (dBUV/m)</th><th>Limit (dBUV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>4824.471</td><td>28.28</td><td>1.04</td><td>29.32</td><td>54.00</td><td>-24.68</td><td>AVG</td></tr><tr><td>2</td><td>4824.809</td><td>40.38</td><td>1.05</td><td>41.43</td><td>74.00</td><td>-32.57</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1 *	4824.471	28.28	1.04	29.32	54.00	-24.68	AVG	2	4824.809	40.38	1.05	41.43	74.00	-32.57	peak
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1 *	4824.471	28.28	1.04	29.32	54.00	-24.68	AVG																								
2	4824.809	40.38	1.05	41.43	74.00	-32.57	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	Ant 1						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11n(HT20) Mode 2412MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

Ant. No.	Ant 1																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11n(HT20) Mode 2437MHz																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th></tr><tr><td>1 *</td><td>4873.543</td><td>28.54</td><td>1.23</td><td>29.77</td><td>54.00</td><td>-24.23</td><td>AVG</td></tr><tr><td>2</td><td>4874.909</td><td>41.04</td><td>1.23</td><td>42.27</td><td>74.00</td><td>-31.73</td><td>peak</td></tr></table>								No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1 *	4873.543	28.54	1.23	29.77	54.00	-24.23	AVG	2	4874.909	41.04	1.23	42.27	74.00	-31.73	peak
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector																								
1 *	4873.543	28.54	1.23	29.77	54.00	-24.23	AVG																								
2	4874.909	41.04	1.23	42.27	74.00	-31.73	peak																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	Ant 1						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11n(HT20) Mode 2437MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

Ant. No.	Ant 1						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11n(HT20) Mode 2462MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

Ant. No.	Ant 1						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11n(HT20) Mode 2462MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

Ant. No.	Ant 1						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11n(HT40) Mode 2422MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

Ant. No.	Ant 1						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11n(HT40) Mode 2422MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

Ant. No.	Ant 1																														
Ant. Pol.	Horizontal																														
Test Mode:	TX 802.11n(HT40) Mode 2437MHz																														
Remark:	No report for the emission which more than 20 dB below the prescribed limit.																														
<table><tr><td>No.</td><td>Frequency (MHz)</td><td>Reading (dBUV)</td><td>Factor (dB/m)</td><td>Level (dBUV/m)</td><td>Limit (dBUV/m)</td><td>Margin (dB)</td><td>Detector</td></tr><tr><td>1</td><td>4874.025</td><td>40.68</td><td>1.23</td><td>41.91</td><td>74.00</td><td>-32.09</td><td>peak</td></tr><tr><td>2 *</td><td>4874.336</td><td>28.56</td><td>1.23</td><td>29.79</td><td>54.00</td><td>-24.21</td><td>AVG</td></tr></table>								No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	1	4874.025	40.68	1.23	41.91	74.00	-32.09	peak	2 *	4874.336	28.56	1.23	29.79	54.00	-24.21	AVG
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector																								
1	4874.025	40.68	1.23	41.91	74.00	-32.09	peak																								
2 *	4874.336	28.56	1.23	29.79	54.00	-24.21	AVG																								
Remarks: 1.Factor (dB/m) = Antenna Factor (dB/m)+Cable Factor (dB)-Pre-amplifier Factor 2.Margin value = Level -Limit value																															

Ant. No.	Ant 1						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11n(HT40) Mode 2437MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

Ant. No.	Ant 1						
Ant. Pol.	Horizontal						
Test Mode:	TX 802.11n(HT40) Mode 2452MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

Ant. No.	Ant 1						
Ant. Pol.	Vertical						
Test Mode:	TX 802.11n(HT40) Mode 2452MHz						
Remark:	No report for the emission which more than 20 dB below the prescribed limit.						

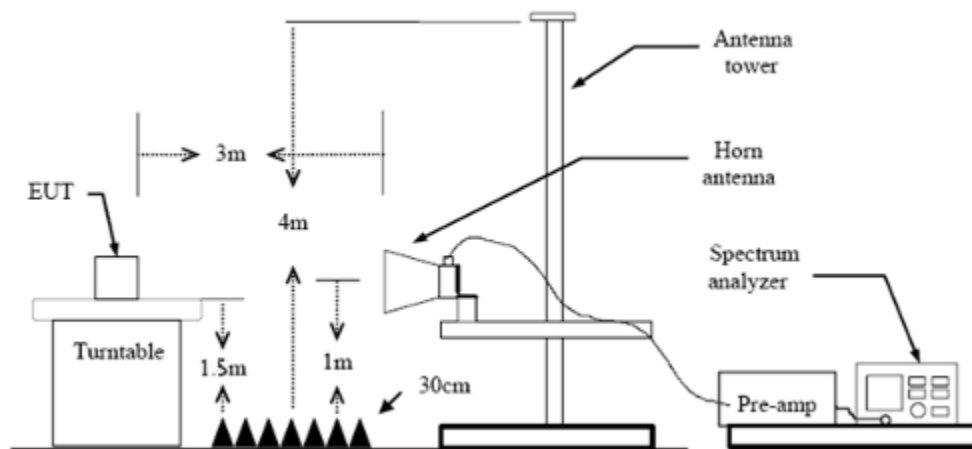
3.2. Band Edge Emissions (Radiated)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d) / RSS-247 5.5

Restricted Frequency Band (MHz)	(dB μ V/m) (at 3m)	
	Peak	Average
2310 ~ 2390	74	54
2483.5 ~ 2500	74	54

Test Configuration



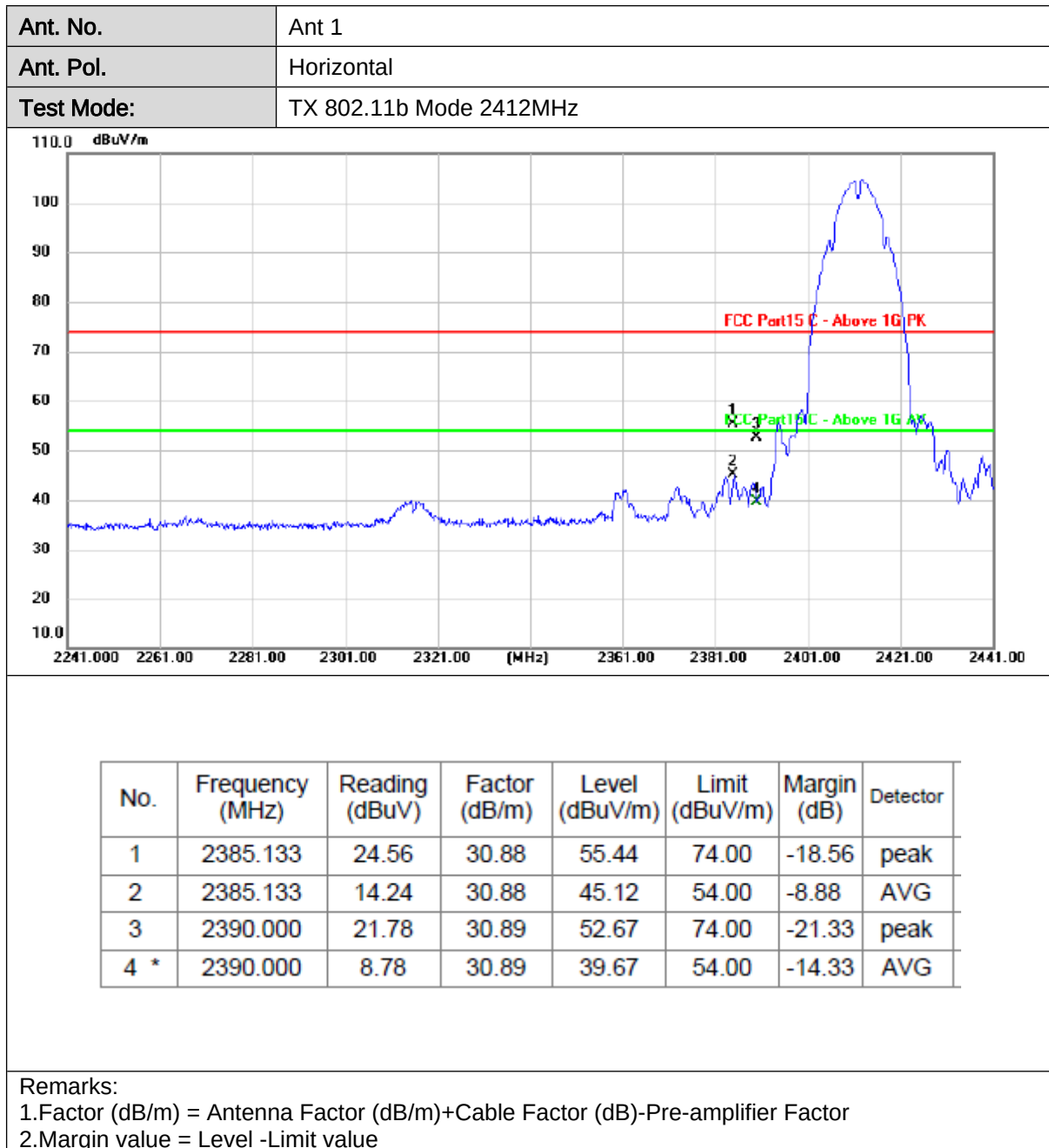
Test Procedure

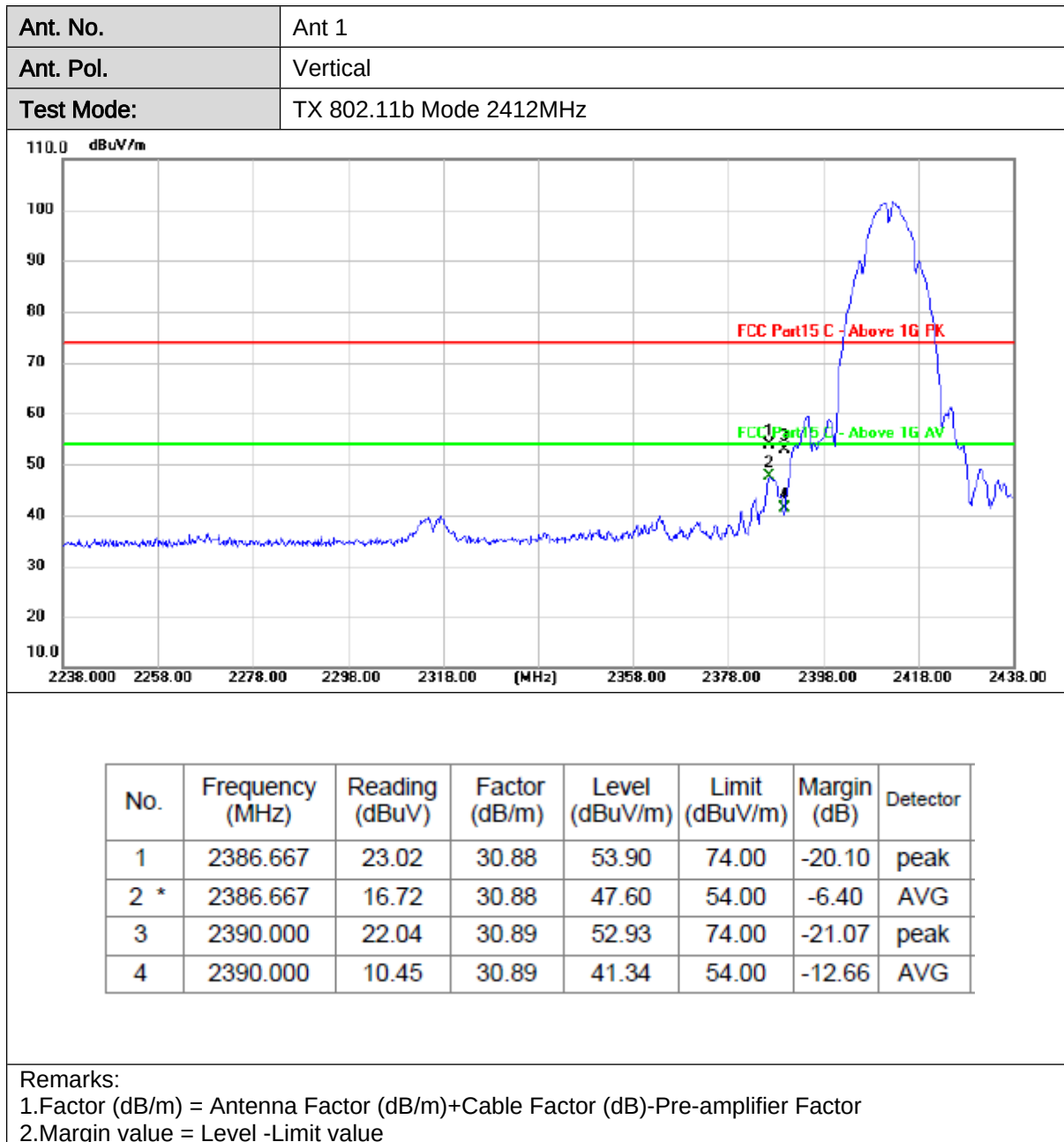
1. The EUT was setup and tested according to ANSI C63.10:2020 requirements.
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2020 on radiated measurement.
5. The receiver set as follow:
RBW=1MHz, VBW=3MHz Peak detector for Peak value.
RBW=1MHz, VBW see note 1 with Peak Detector for Average Value.

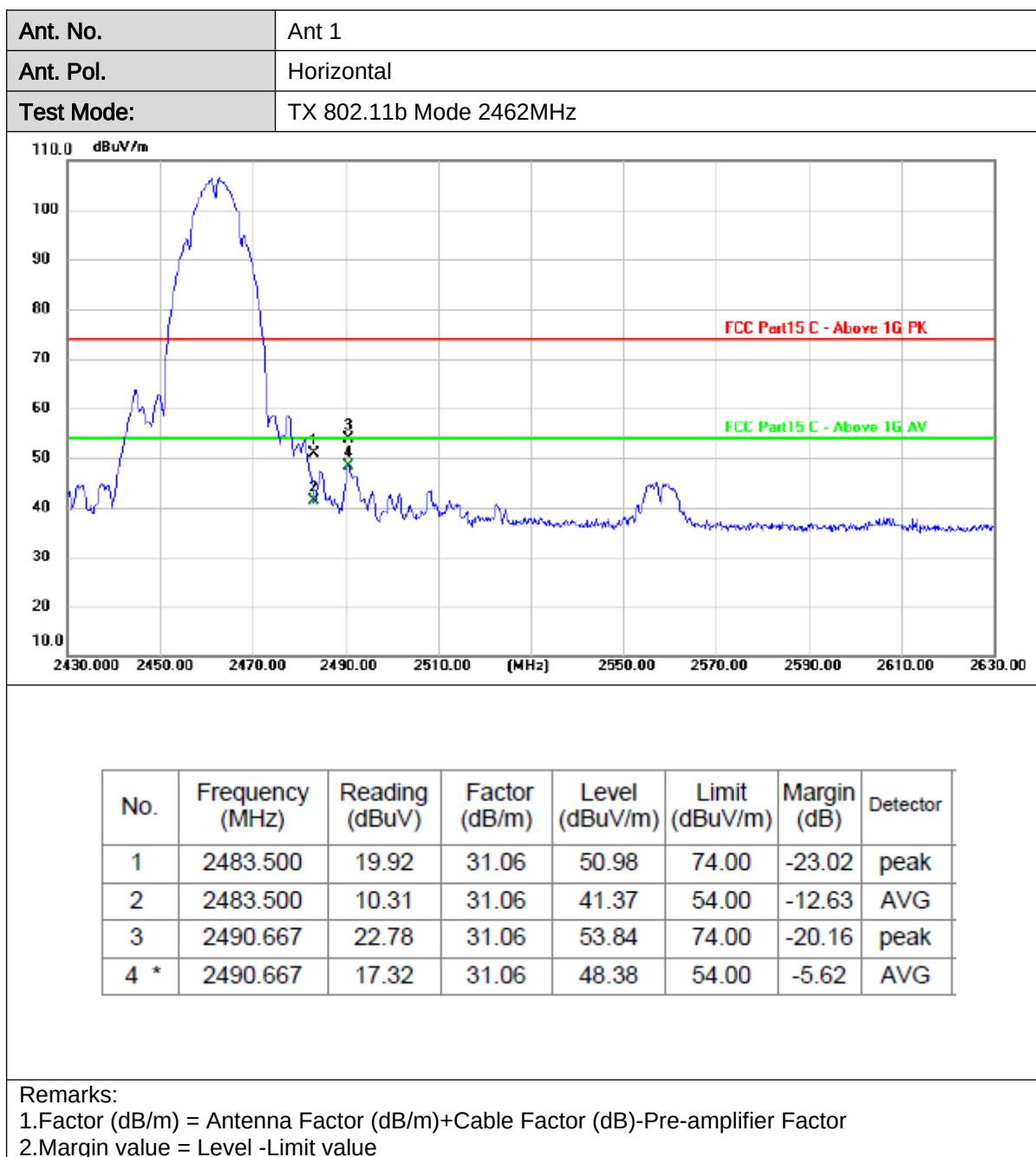
Note 1: For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 3.8 Duty Cycle.

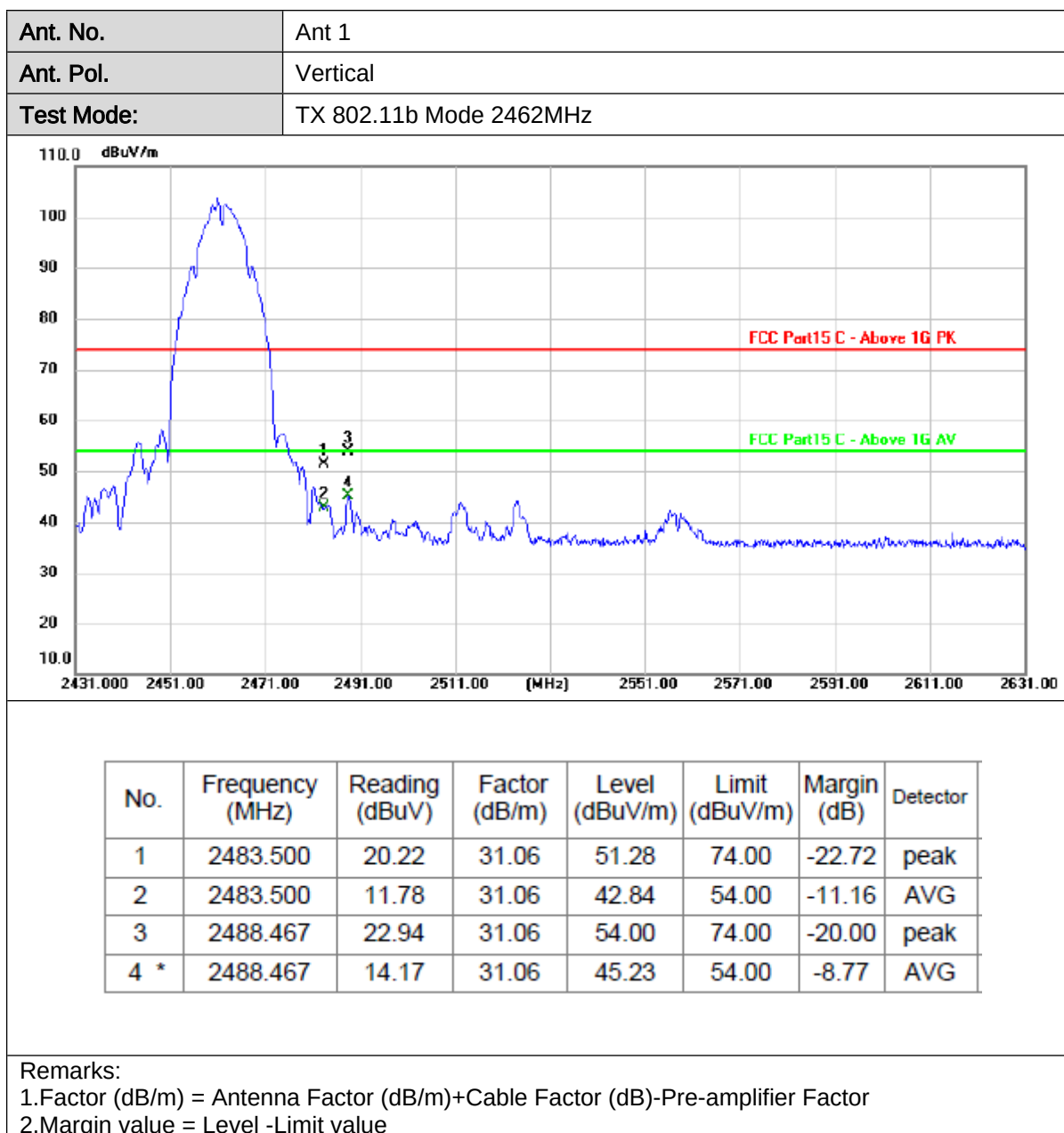
Test Mode

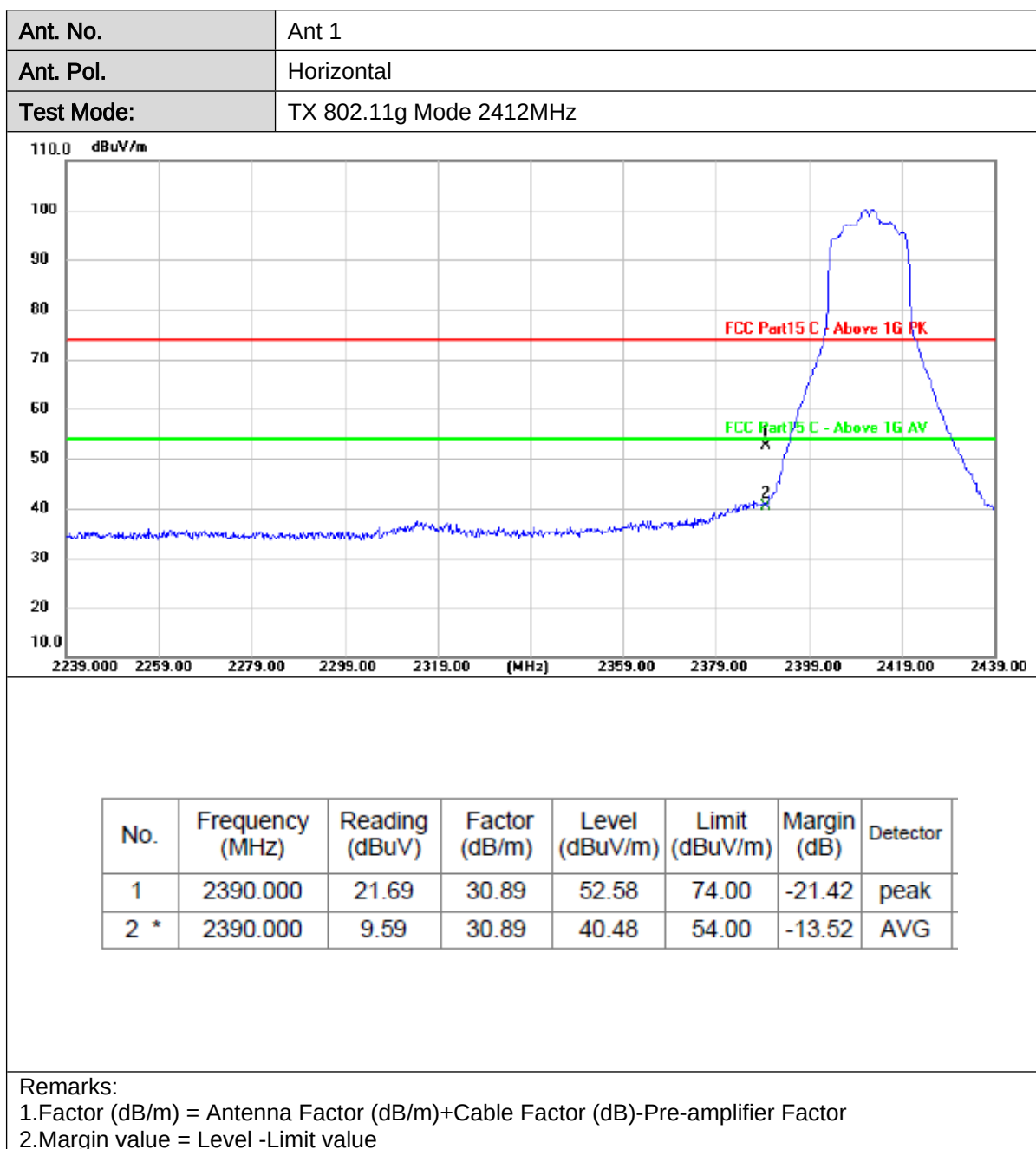
Please refer to the clause 2.4.

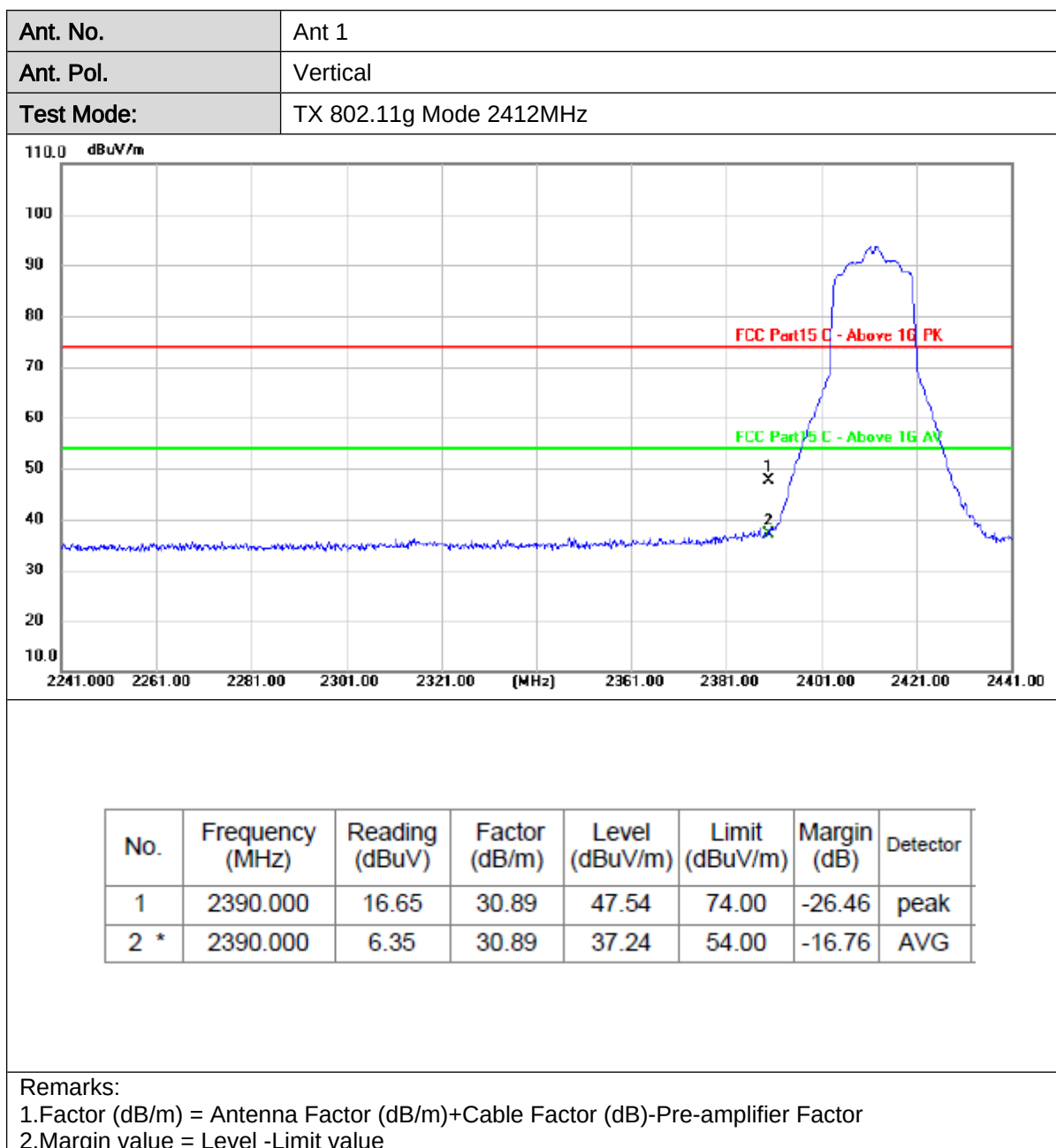
Test Result

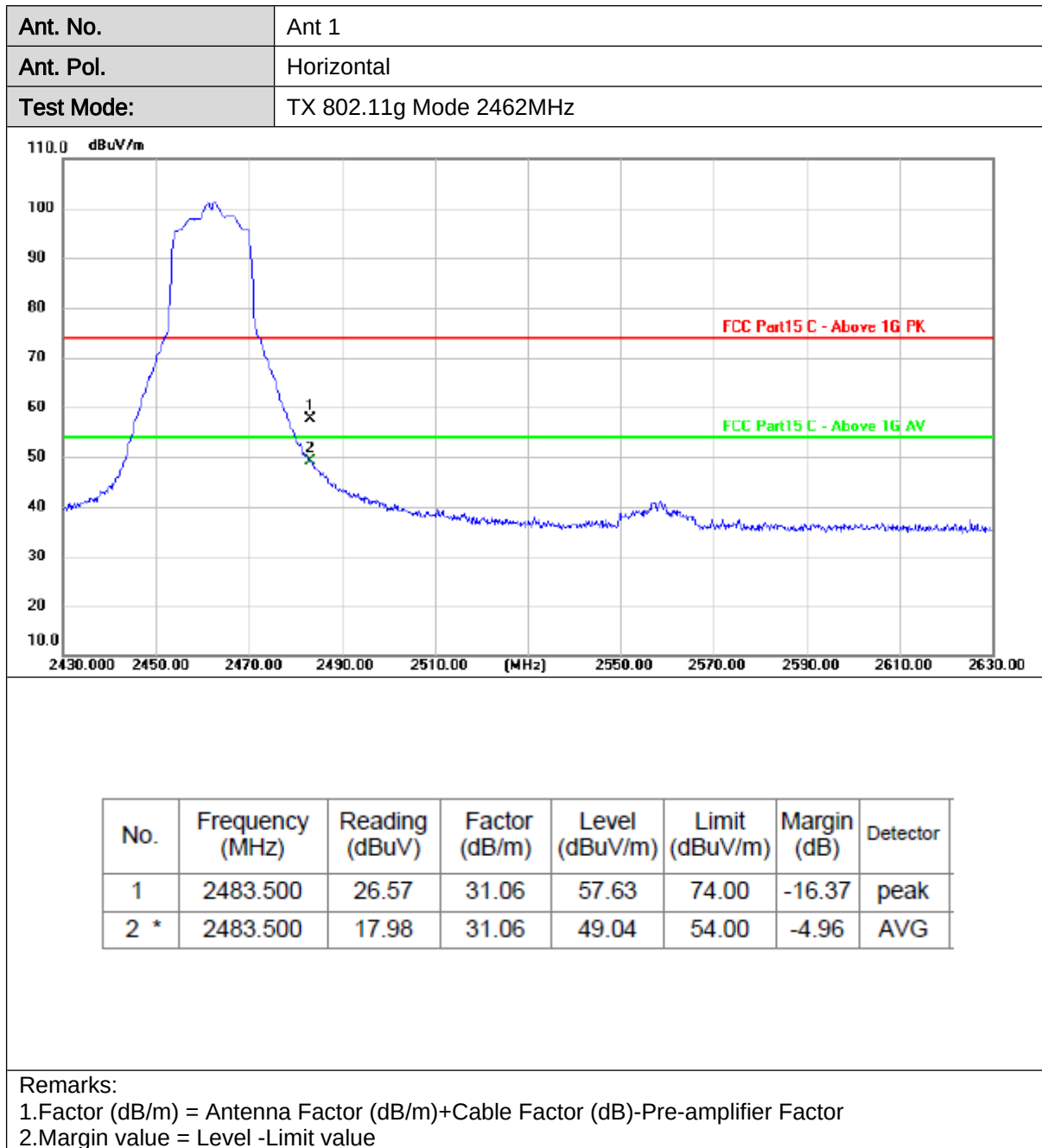


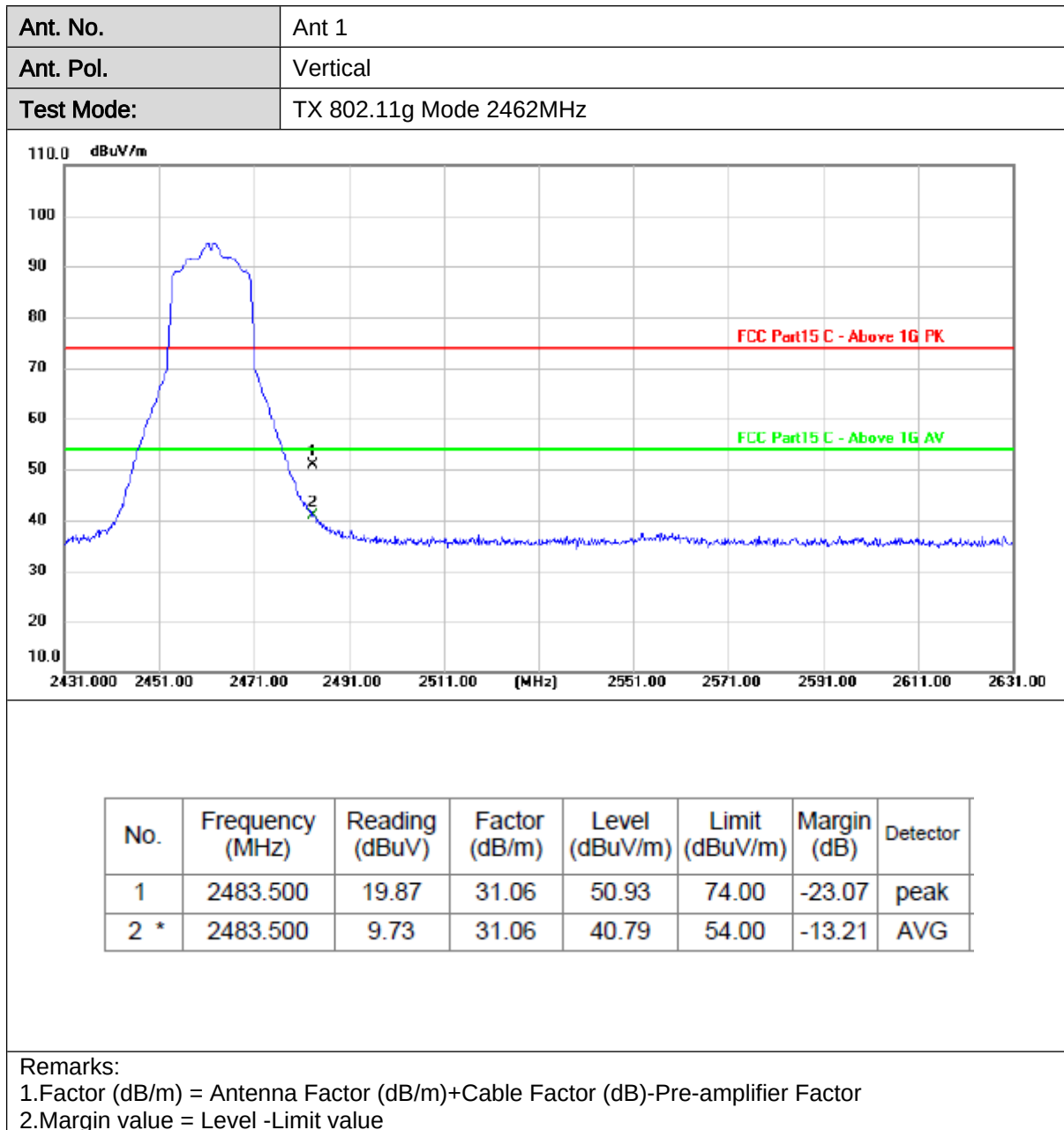


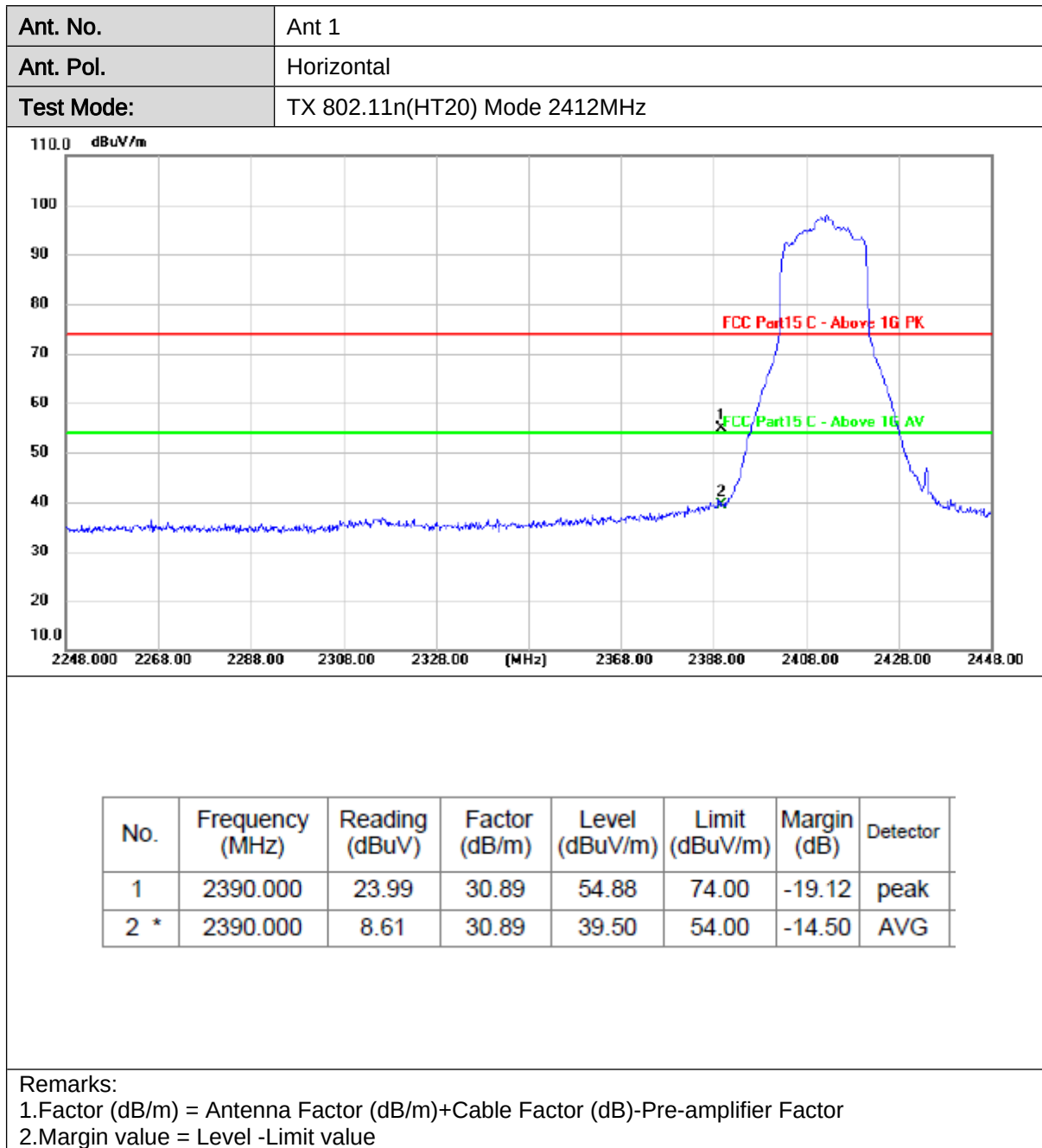


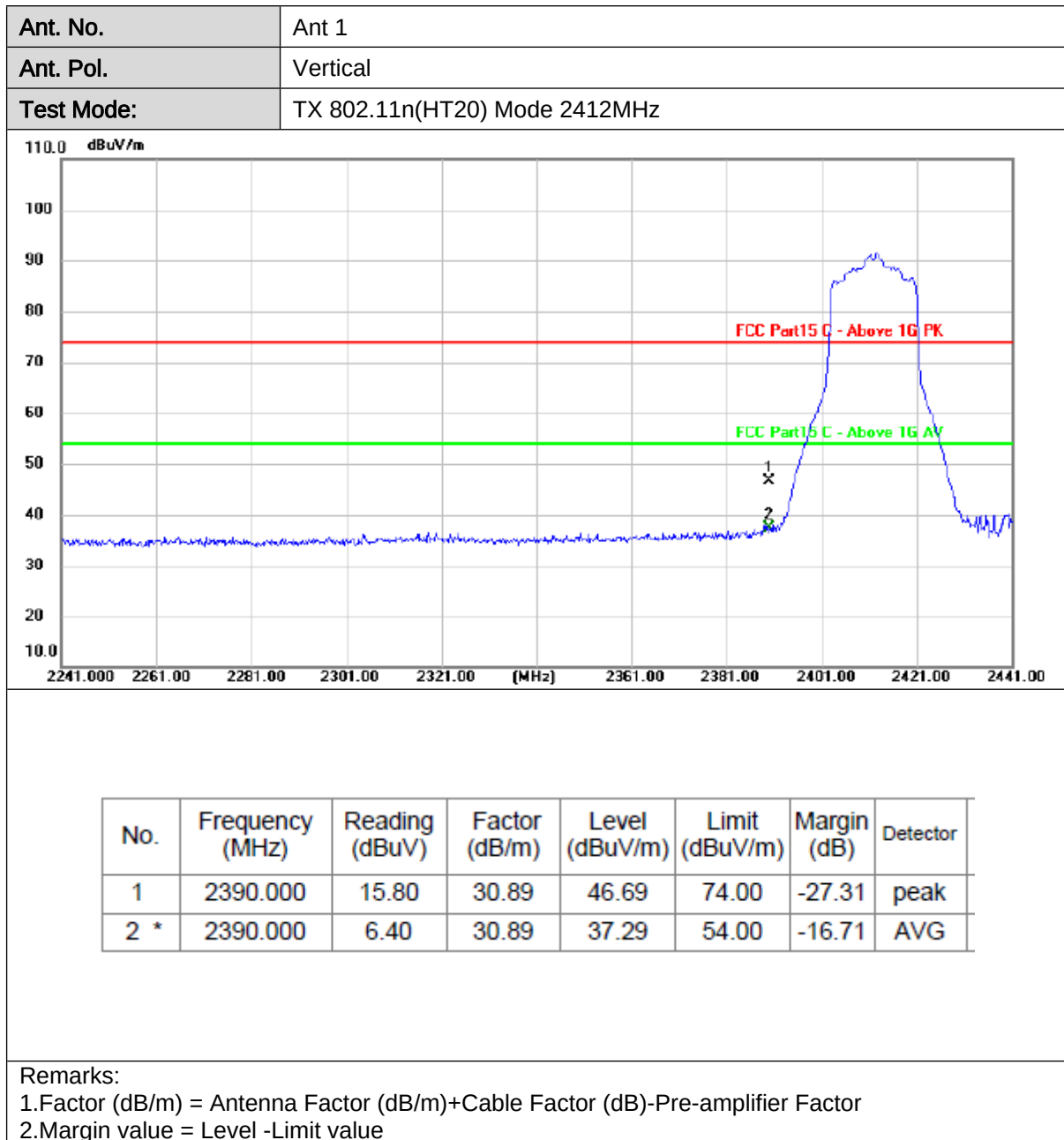


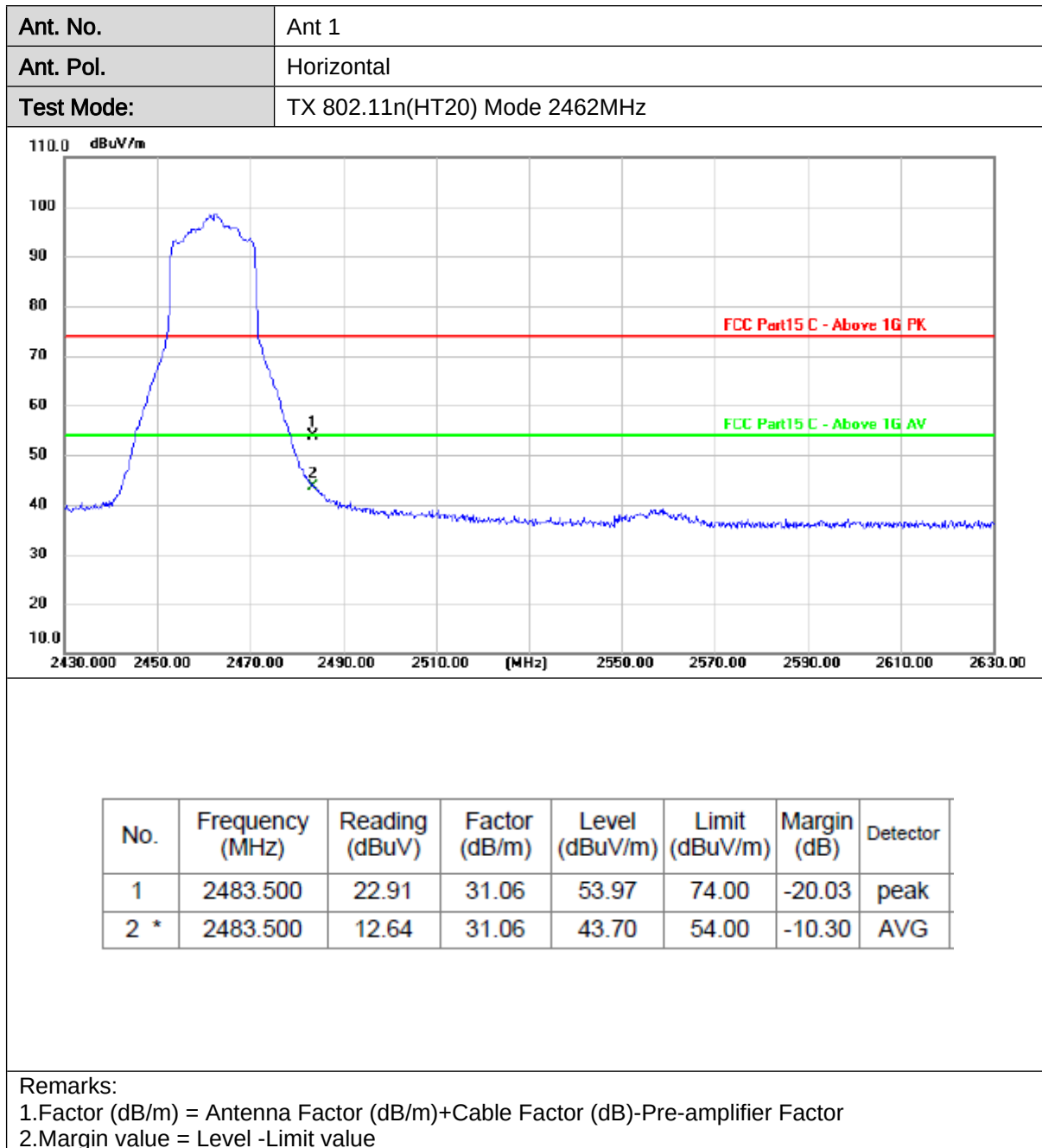


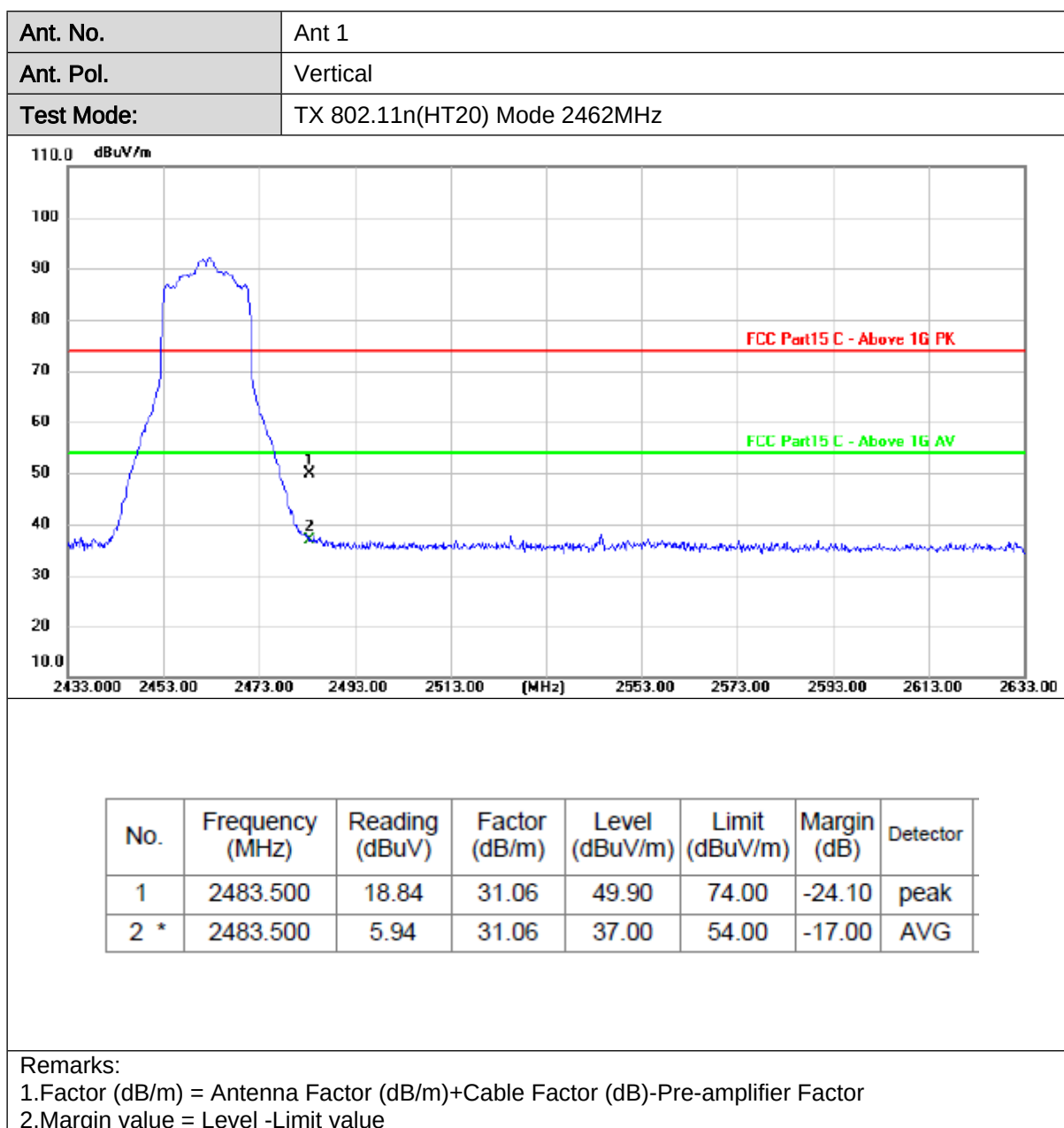




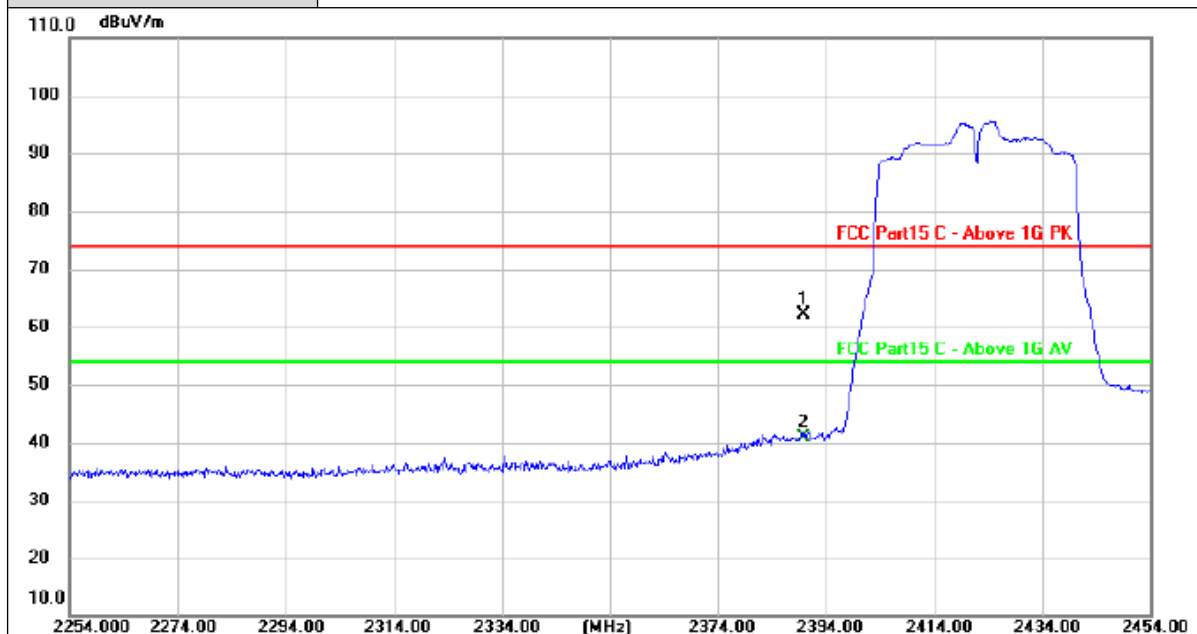








Ant. No.	Ant 1
Ant. Pol.	Horizontal
Test Mode:	TX 802.11n(HT40) Mode 2422MHz

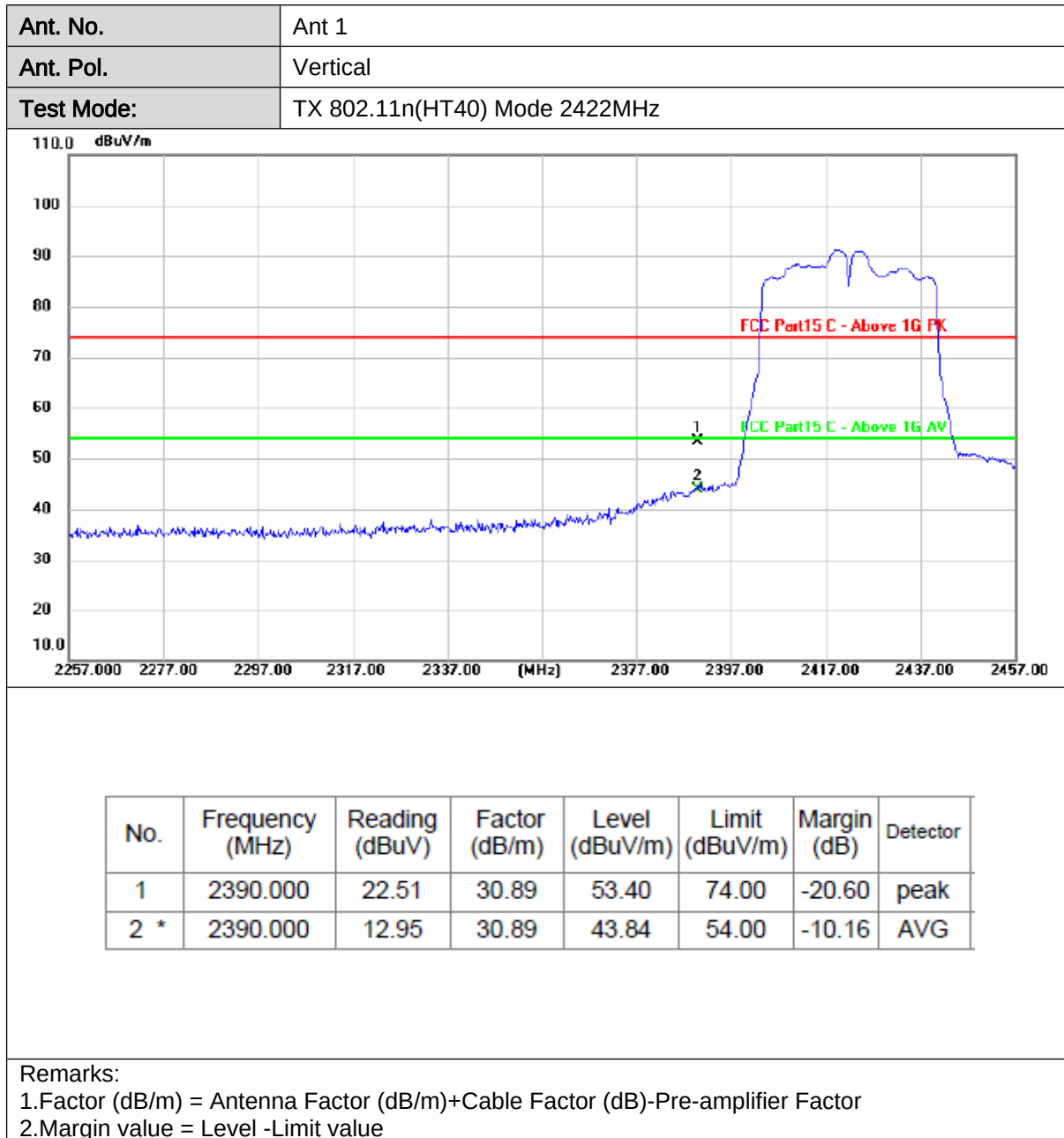


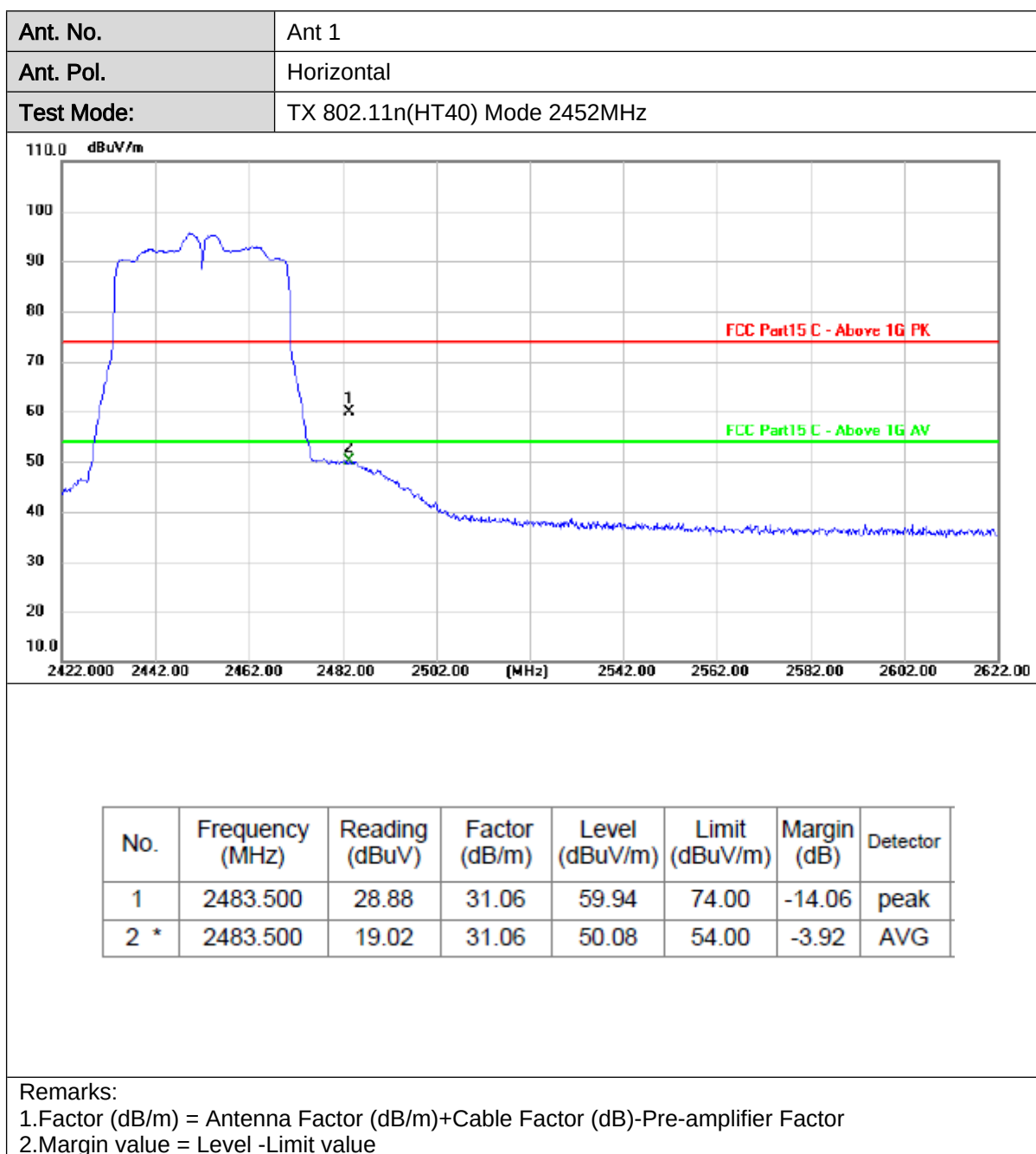
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1 *	2390.000	31.17	30.89	62.06	74.00	-11.94	peak
2	2390.000	10.05	30.89	40.94	54.00	-13.06	AVG

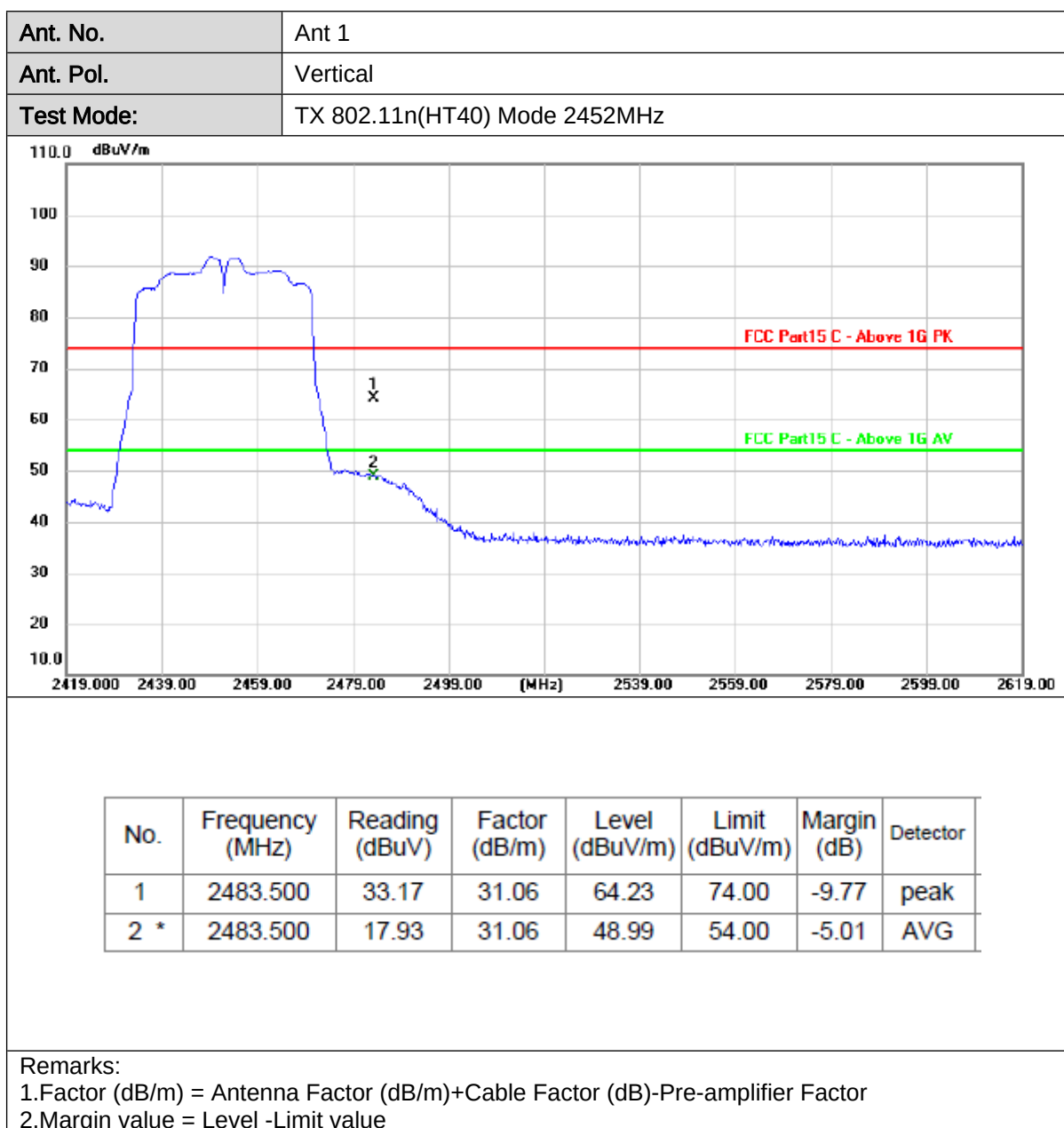
Remarks:

1. Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB) - Pre-amplifier Factor

2. Margin value = Level - Limit value







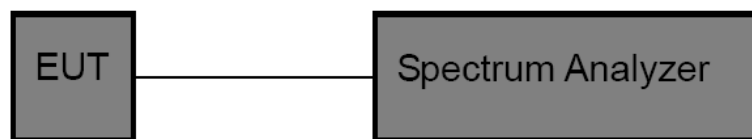
3.3. Band Edge and Spurious Emissions (Conducted)

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d) / RSS-247 5.5

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

Test Configuration



Test Procedure

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously.
3. Use the following spectrum analyzer settings:
RBW = 100 kHz, VBW $\geq$ RBW, scan up through 10th harmonic.
Sweep = auto, Detector function = peak, Trace = max hold.
4. Measure and record the results in the test report.

Test Mode

Please refer to the clause 2.4.

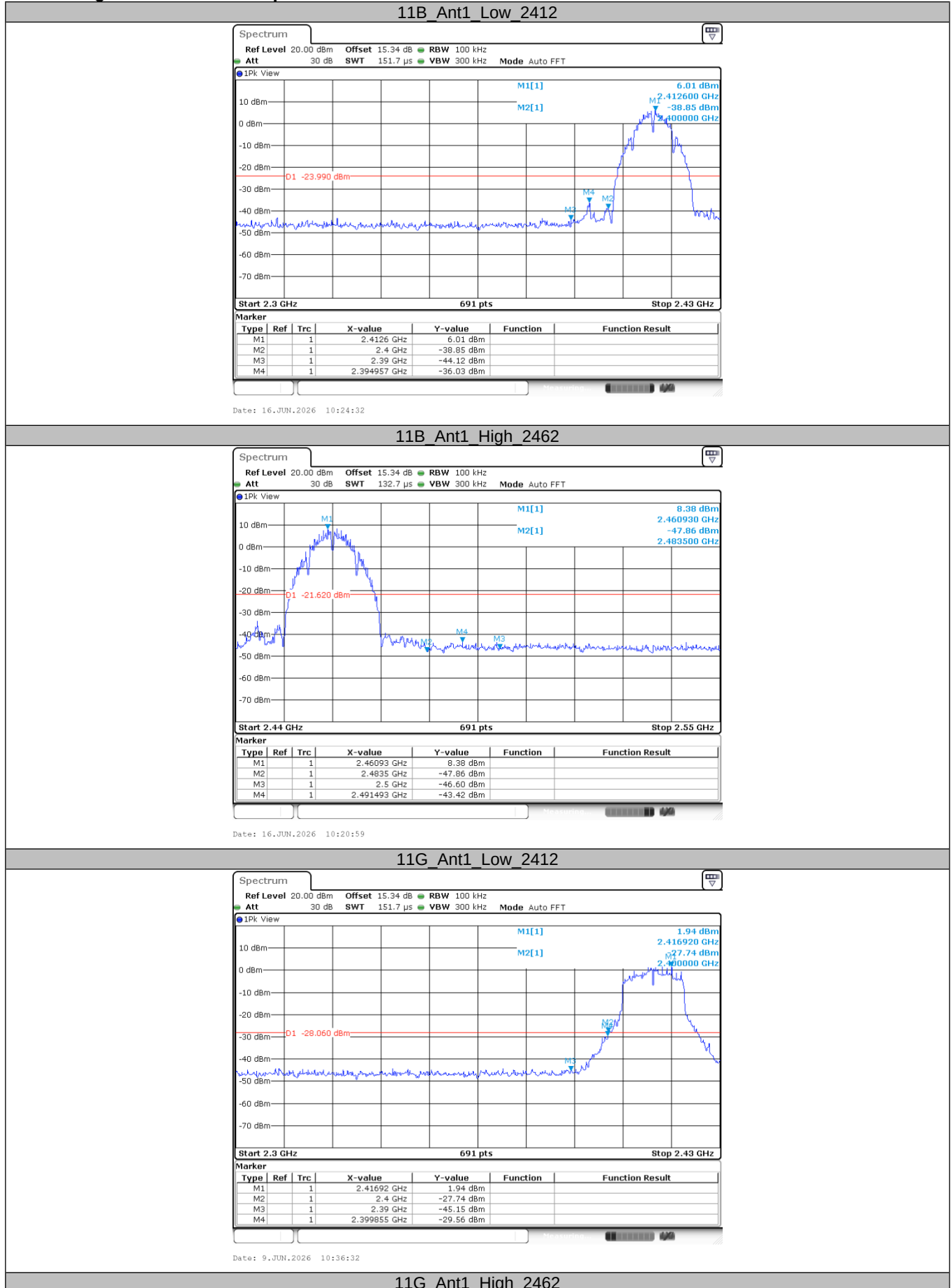
Test Result**Band Edge Conducted Test:**

TestMode	Antenna	ChName	Frequency[MHz]	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdict
11B	Ant1	Low	2412	6.01	-36.03	≤-23.99	PASS
		High	2462	8.38	-43.42	≤-21.62	PASS
11G	Ant1	Low	2412	1.94	-29.56	≤-28.06	PASS
		High	2462	0.99	-42.69	≤-29.01	PASS
11N20SISO	Ant1	Low	2412	0.43	-31.4	≤-29.57	PASS
		High	2462	1.95	-43.73	≤-28.05	PASS
11N40SISO	Ant1	Low	2422	-1.00	-40.51	≤-31	PASS
		High	2452	-1.92	-43.72	≤-31.92	PASS

Conducted Spurious Emissions Test:

TestMode	Antenna	Frequency[MHz]	FreqRange [Mhz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	Reference	7.66	7.66	---	PASS
			30~1000	7.66	-49.93	≤-22.34	PASS
			1000~26500	7.66	-39.25	≤-22.34	PASS
		2437	Reference	8.82	8.82	---	PASS
			30~1000	8.82	-49.1	≤-21.18	PASS
			1000~26500	8.82	-38.58	≤-21.18	PASS
		2462	Reference	8.58	8.58	---	PASS
			30~1000	8.58	-48.95	≤-21.42	PASS
			1000~26500	8.58	-38.46	≤-21.42	PASS
11G	Ant1	2412	Reference	3.84	3.84	---	PASS
			30~1000	3.84	-49.71	≤-26.16	PASS
			1000~26500	3.84	-37.94	≤-26.16	PASS
		2437	Reference	4.27	4.27	---	PASS
			30~1000	4.27	-49.21	≤-25.73	PASS
			1000~26500	4.27	-39.11	≤-25.73	PASS
		2462	Reference	4.21	4.21	---	PASS
			30~1000	4.21	-49.31	≤-25.79	PASS
			1000~26500	4.21	-38.71	≤-25.79	PASS
11N20SISO	Ant1	2412	Reference	1.90	1.90	---	PASS
			30~1000	1.90	-43.11	≤-28.1	PASS
			1000~26500	1.90	-39.32	≤-28.1	PASS
		2437	Reference	1.96	1.96	---	PASS
			30~1000	1.96	-49.38	≤-28.04	PASS
			1000~26500	1.96	-39.04	≤-28.04	PASS
		2462	Reference	1.30	1.30	---	PASS
			30~1000	1.30	-49.67	≤-28.7	PASS
			1000~26500	1.30	-31.17	≤-28.7	PASS
11N40SISO	Ant1	2422	Reference	-1.06	-1.06	---	PASS
			30~1000	-1.06	-49.81	≤-31.06	PASS
			1000~26500	-1.06	-39.23	≤-31.06	PASS
		2437	Reference	-2.14	-2.14	---	PASS
			30~1000	-2.14	-43.36	≤-32.14	PASS
			1000~26500	-2.14	-39.29	≤-32.14	PASS
		2452	Reference	-0.71	-0.71	---	PASS
			30~1000	-0.71	-49.34	≤-30.71	PASS
			1000~26500	-0.71	-38.98	≤-30.71	PASS

Band Edge Conducted Test plot as follows:



CTC Laboratories, Inc.

Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Langqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

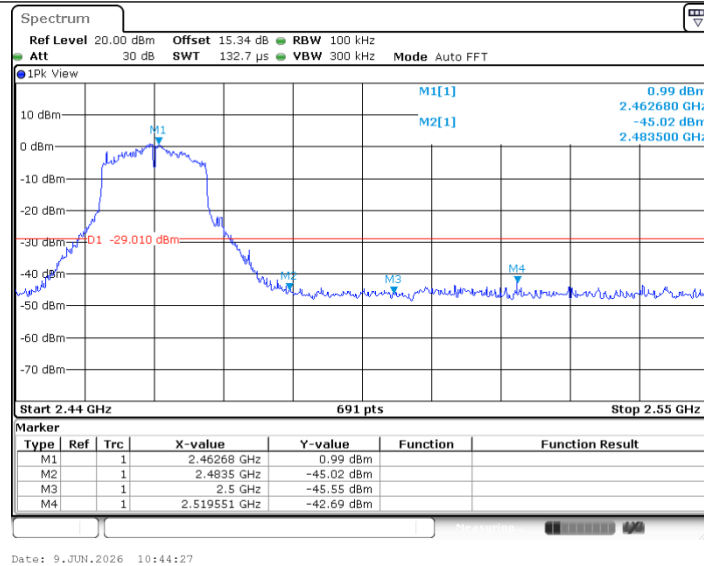
Tel.: (86)755-27521059

Fax: (86)755-27521011

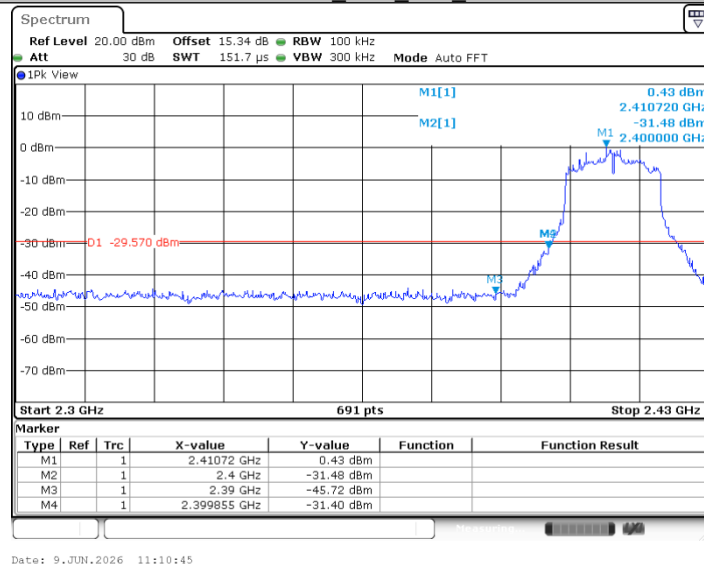
Http://www.sz-ctc.org.cn

TRF No:CTC-TR-057A5

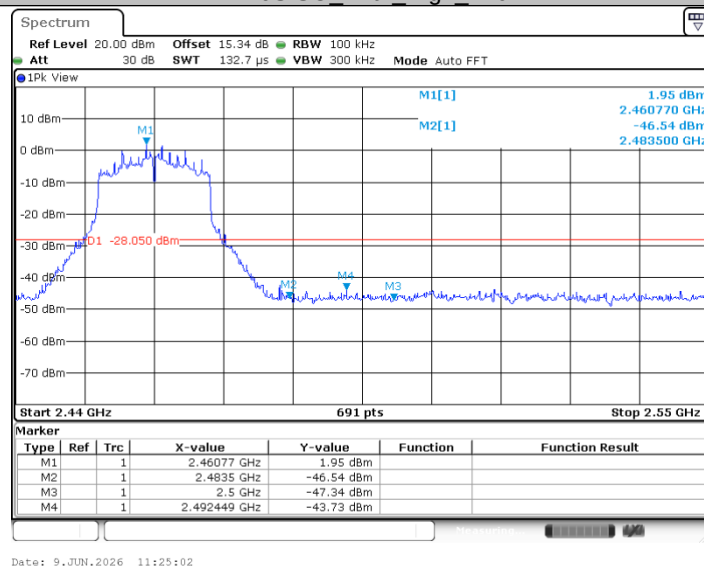
Master TRF:Dated 2026-06-01



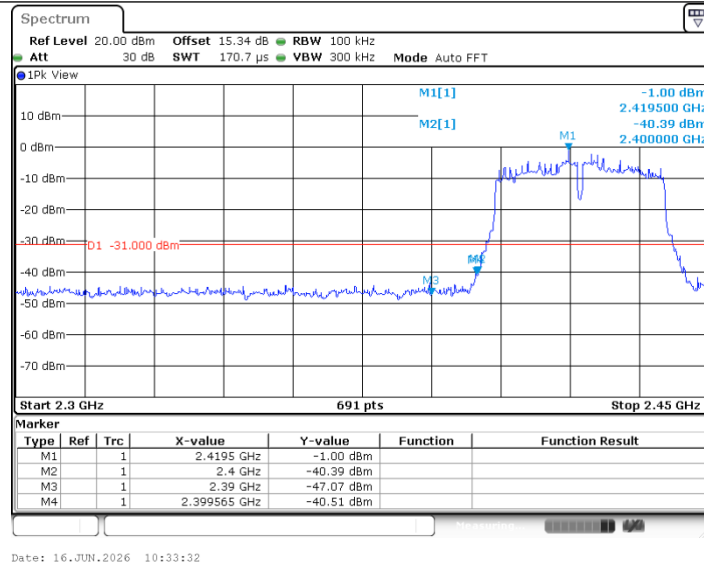
11N20SISO_Ant1_Low_2412



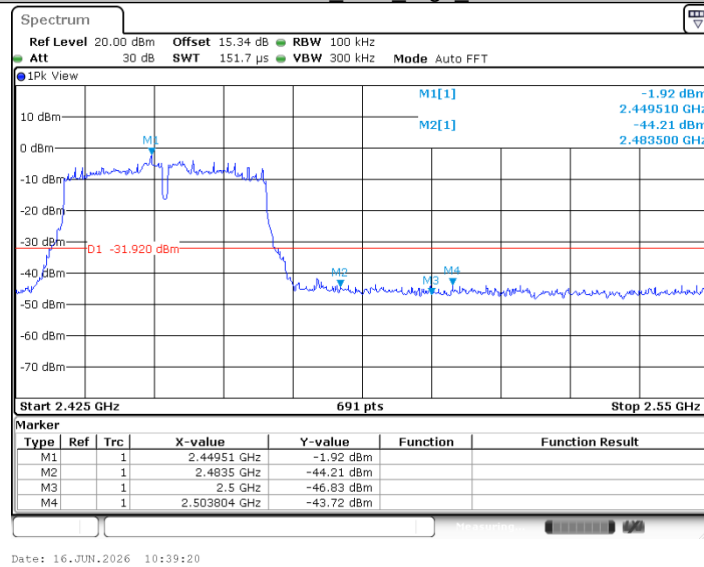
11N20SISO_Ant1_High_2462



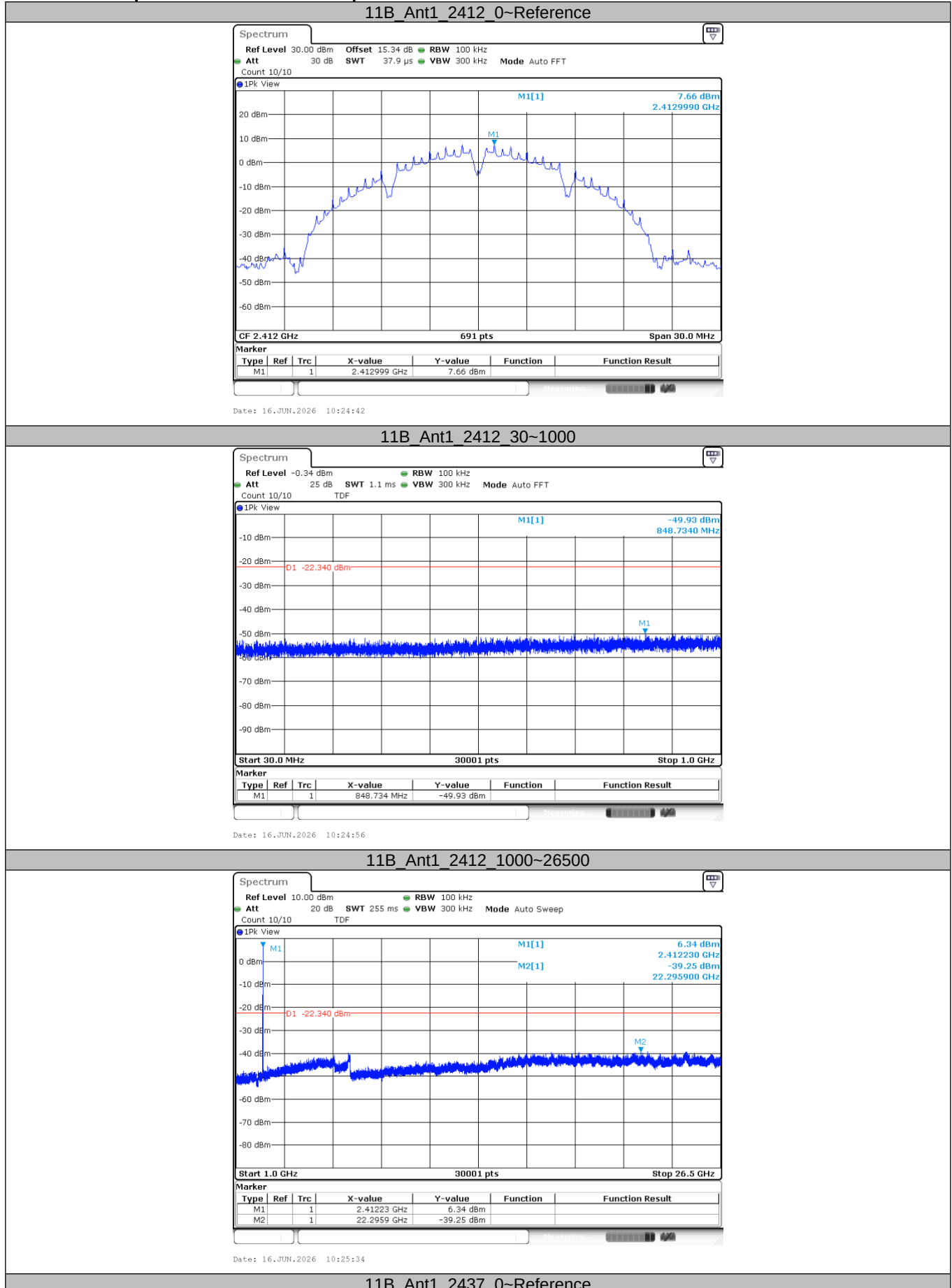
11N40SISO_Ant1_Low_2422

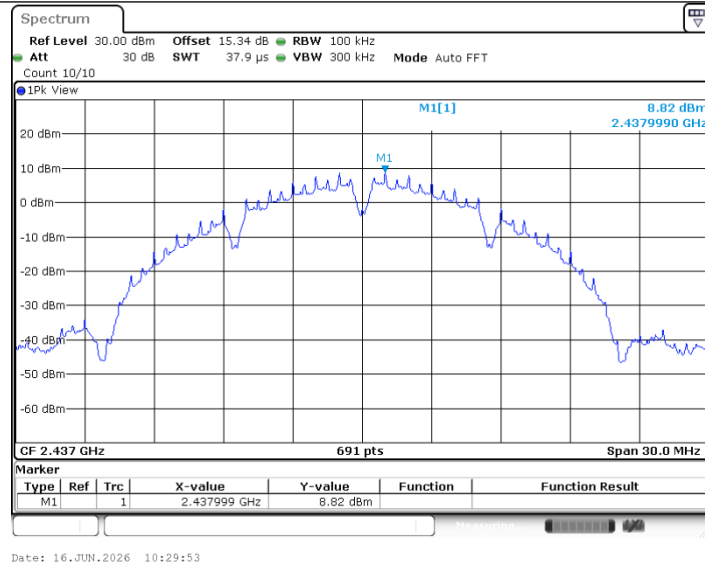


11N40SISO_Ant1_High_2452

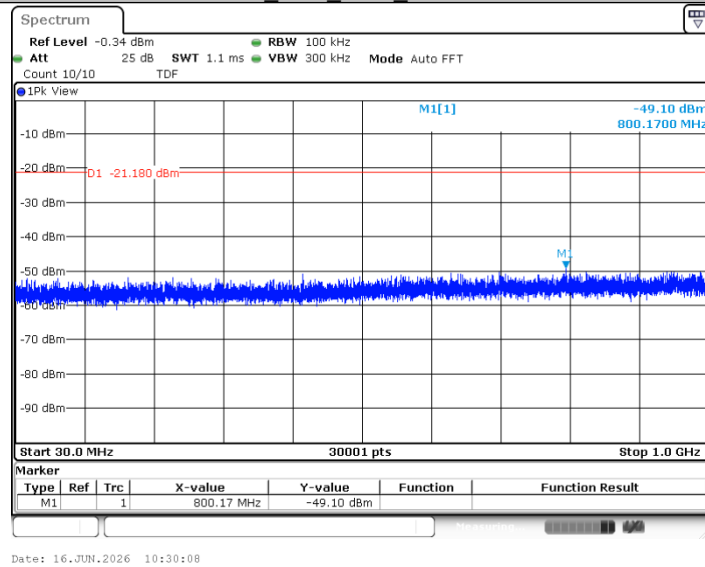


Conducted Spurious Emissions Test plot as follows:

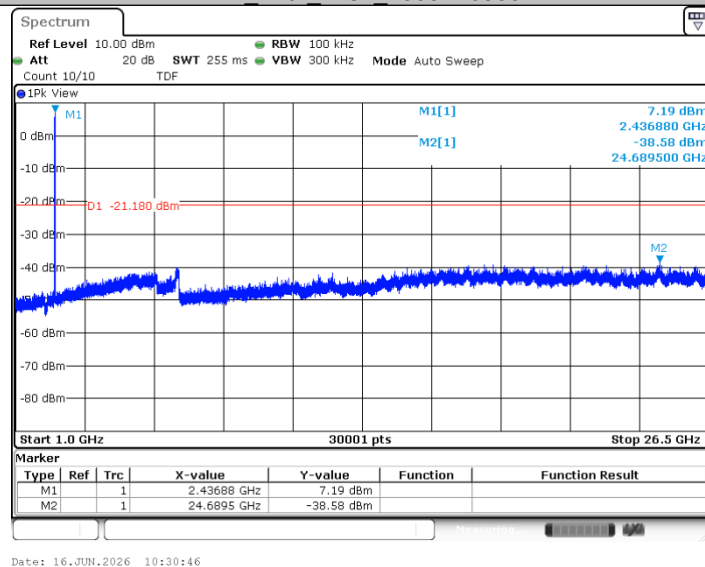




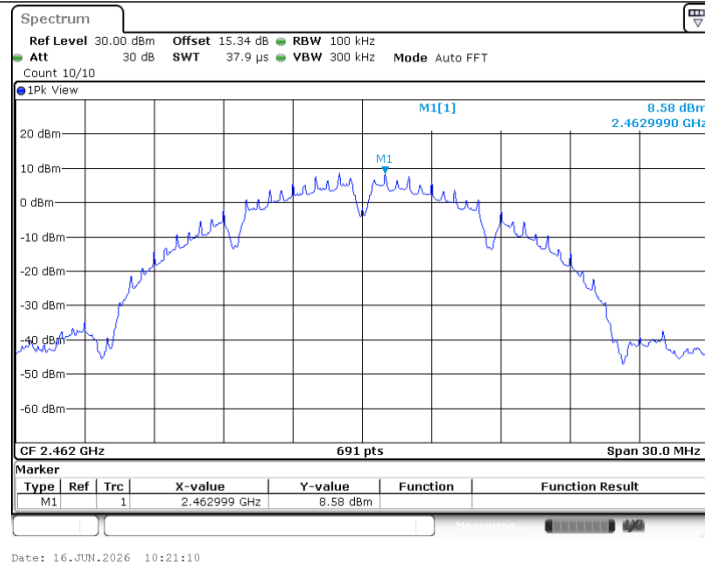
11B_Ant1_2437_30~1000



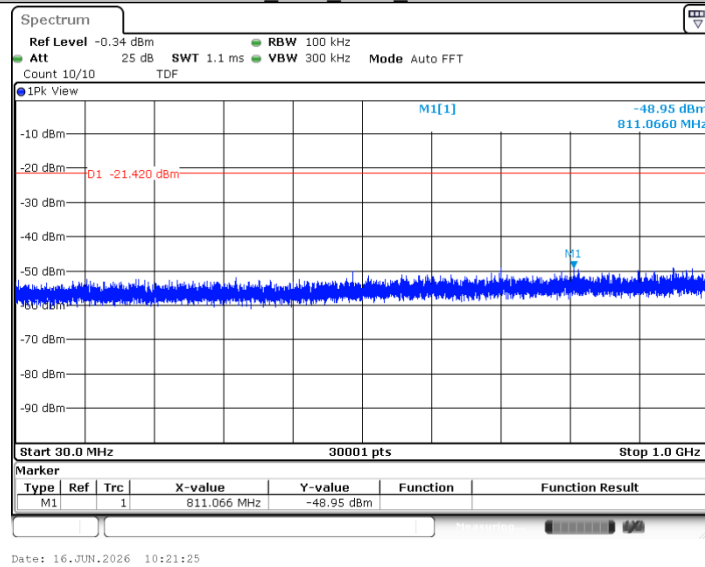
11B_Ant1_2437_1000~26500



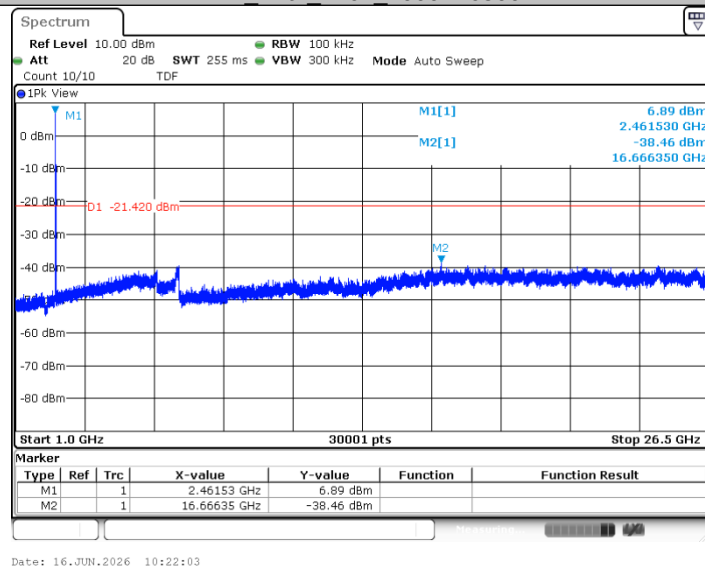
11B_Ant1_2462_0~Reference



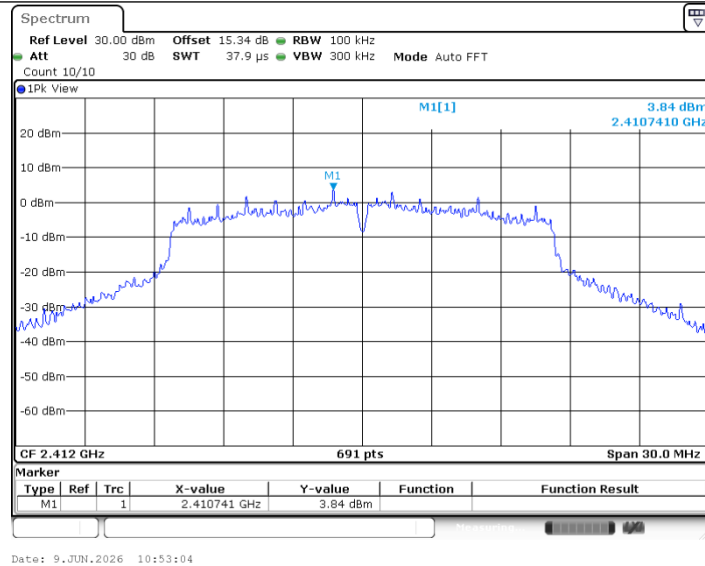
11B_Ant1_2462_30~1000



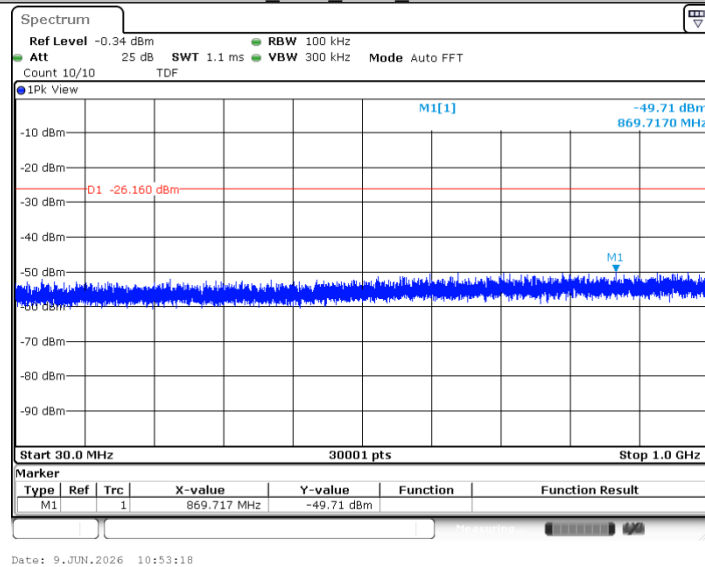
11B_Ant1_2462_1000~26500



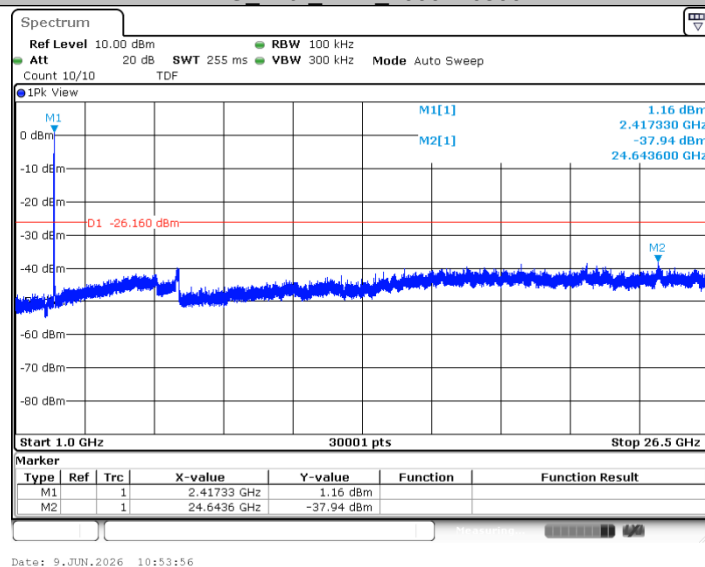
11G_Ant1_2412_0~Reference



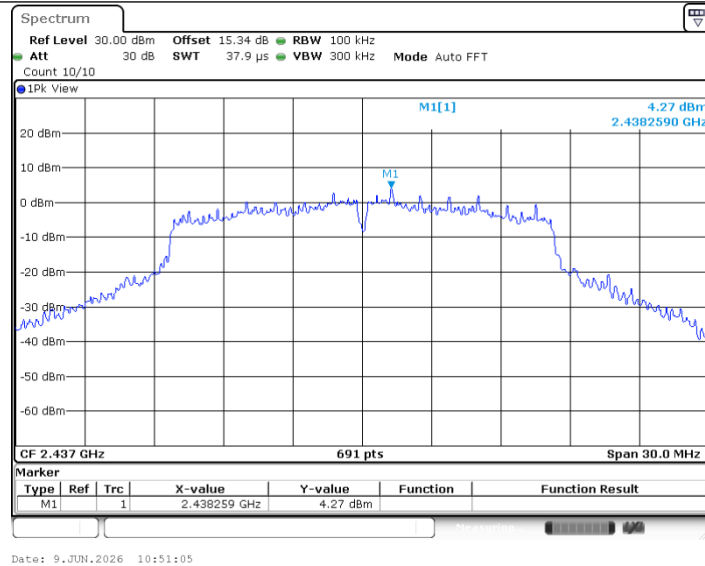
11G_Ant1_2412_30~1000



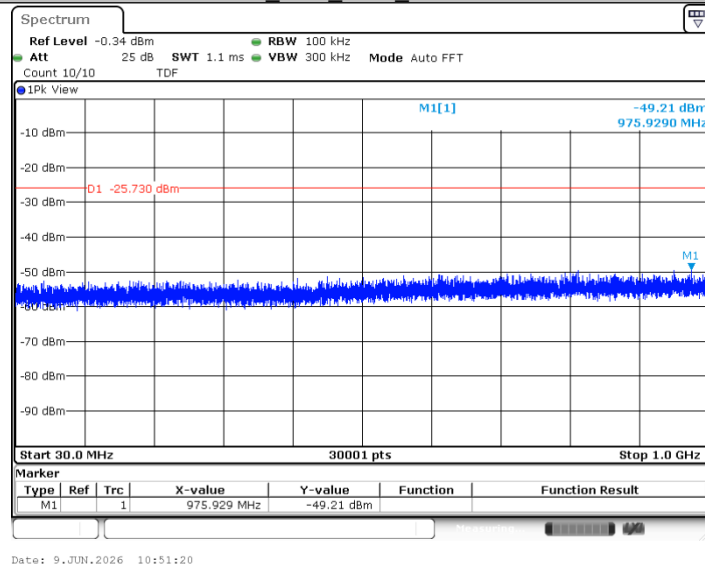
11G_Ant1_2412_1000~26500



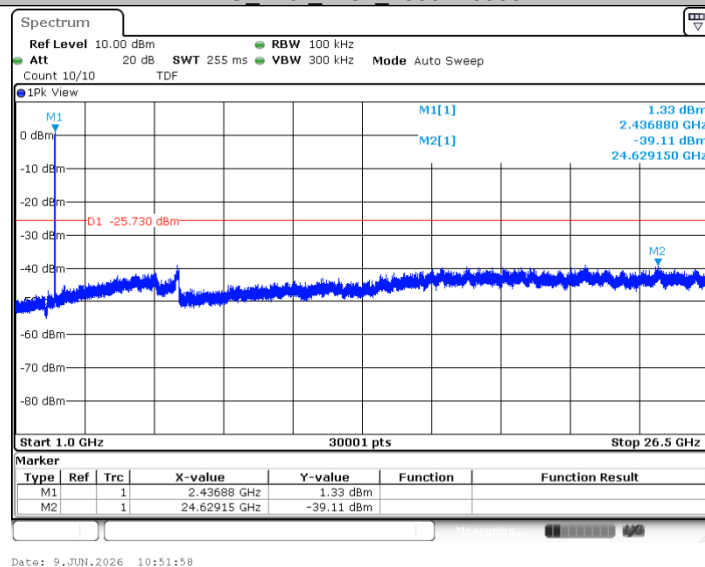
11G_Ant1_2437_0~Reference



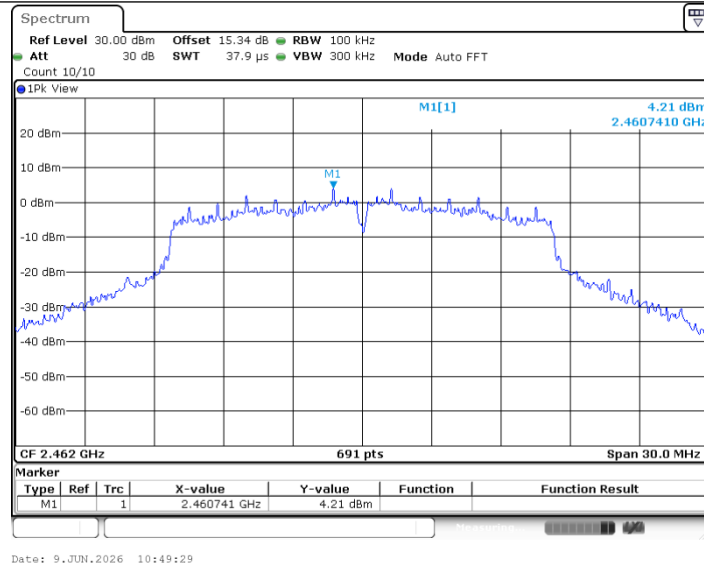
11G_Ant1_2437_30~1000



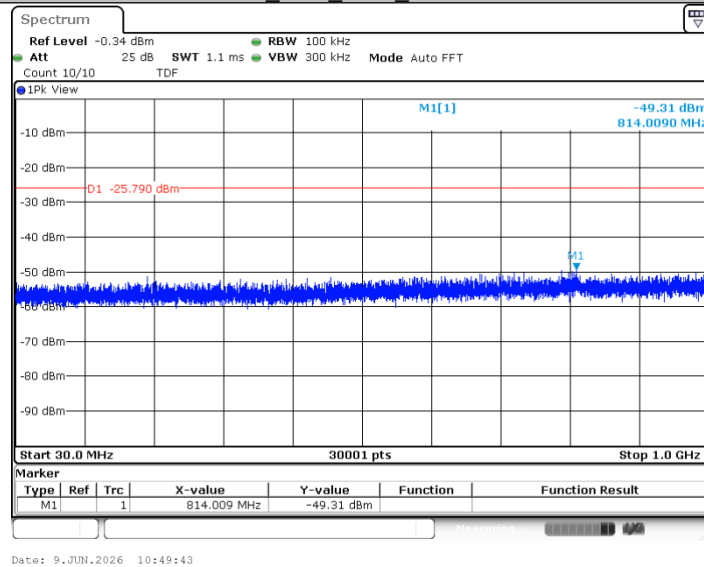
11G_Ant1_2437_1000~26500



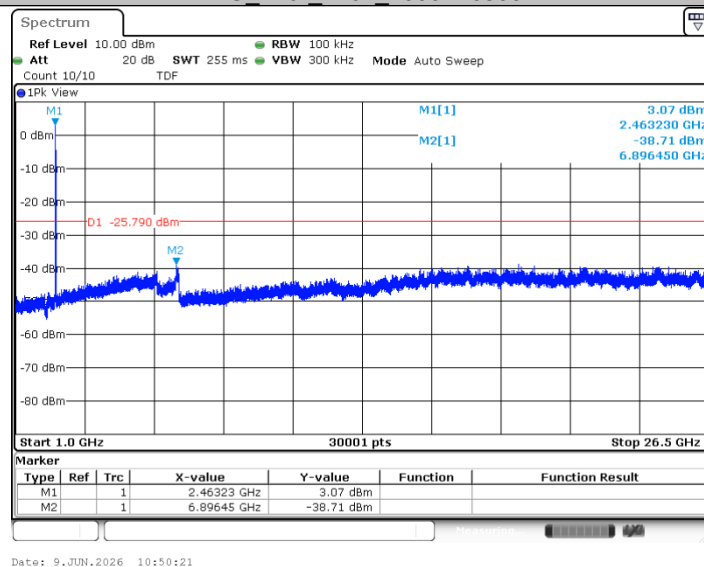
11G_Ant1_2462_0~Reference



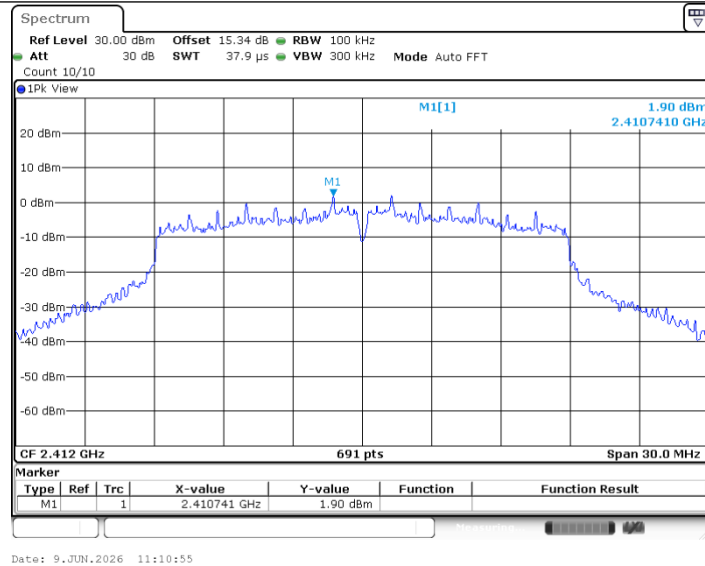
11G_Ant1_2462_30~1000



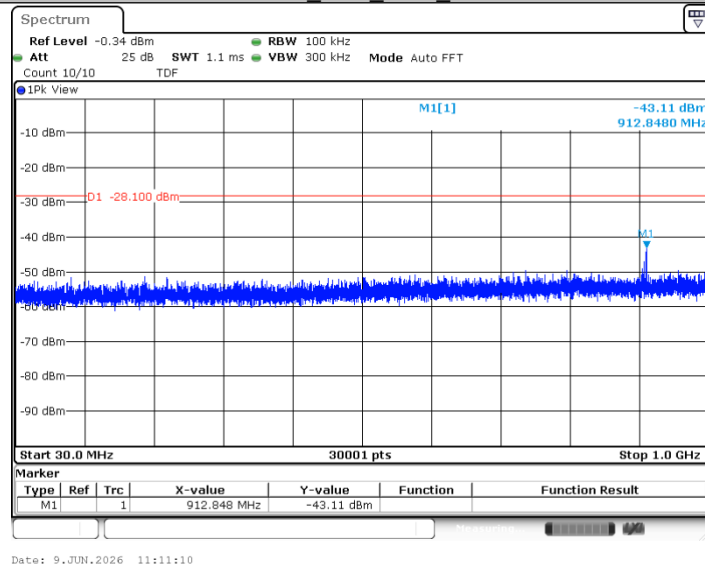
11G_Ant1_2462_1000~26500



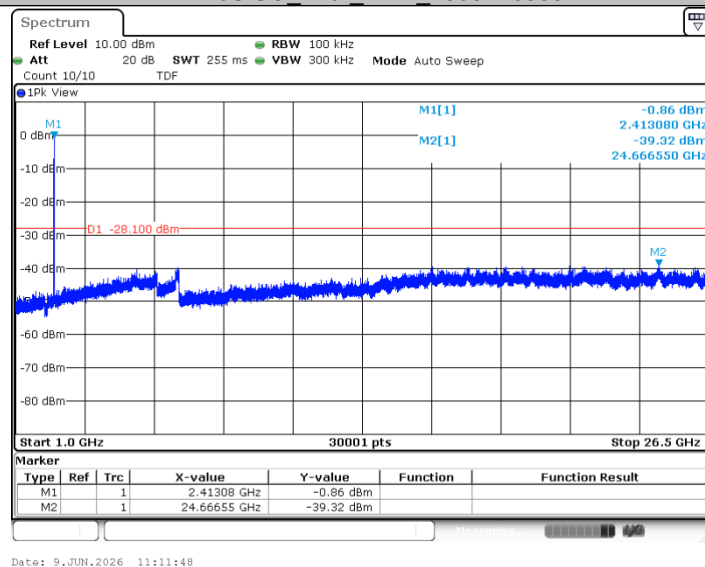
11N20SISO_Ant1_2412_0~Reference



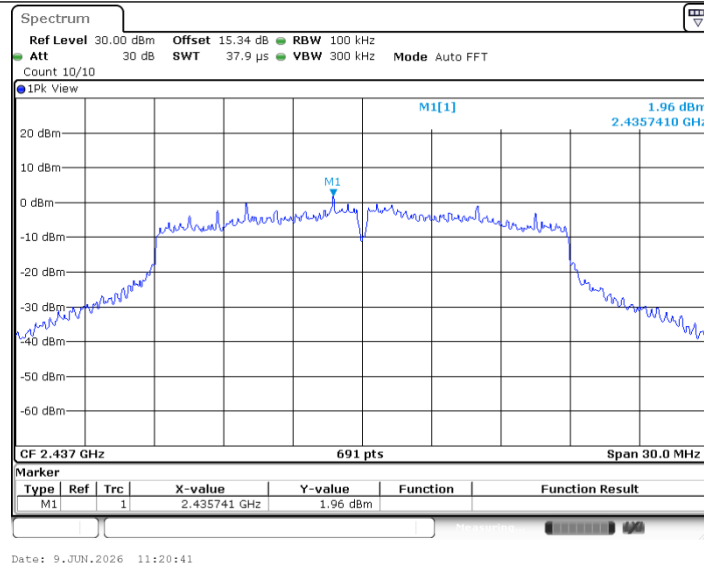
11N20SISO_Ant1_2412_30~1000



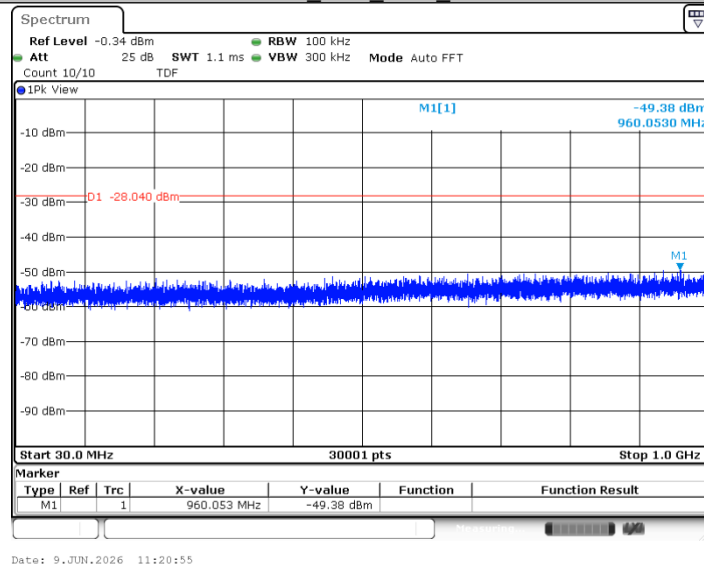
11N20SISO_Ant1_2412_1000~26500



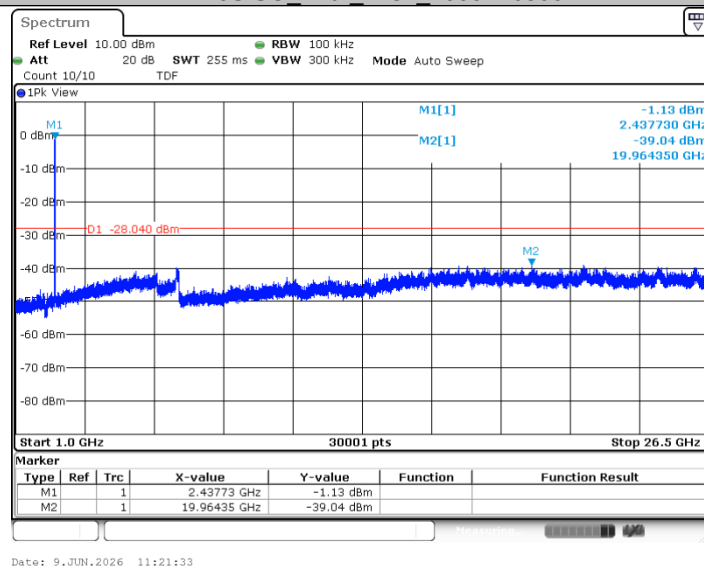
11N20SISO_Ant1_2437_0~Reference



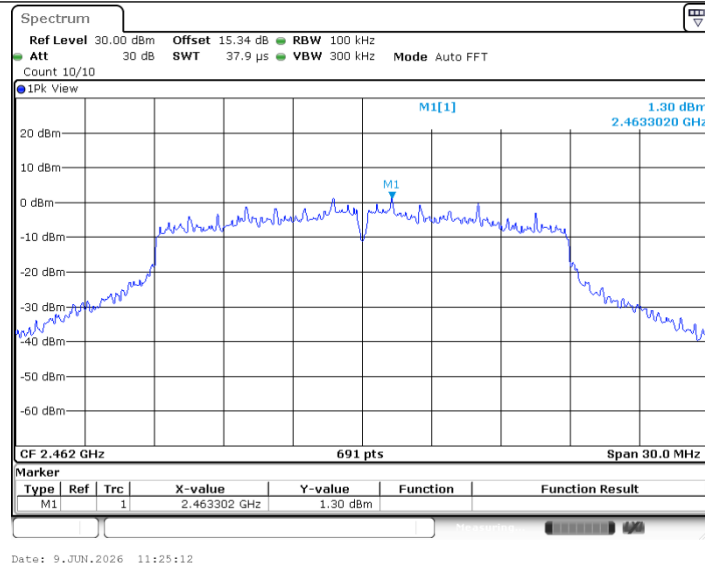
11N20SISO_Ant1_2437_30~1000



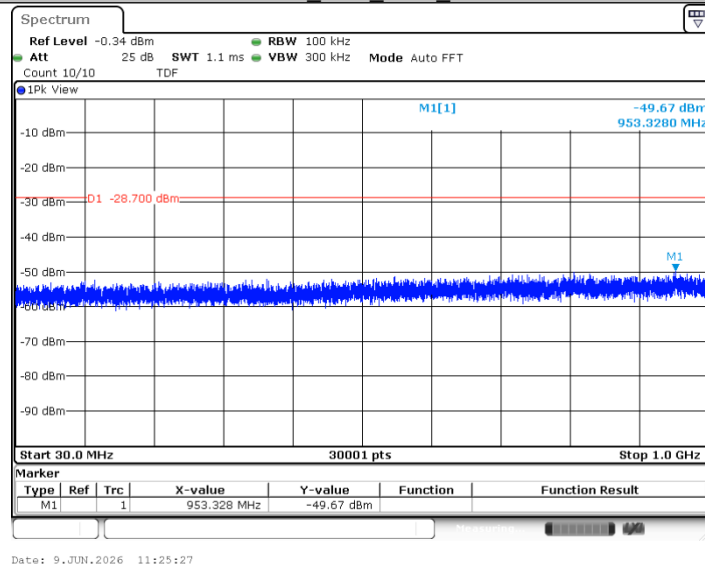
11N20SISO_Ant1_2437_1000~26500



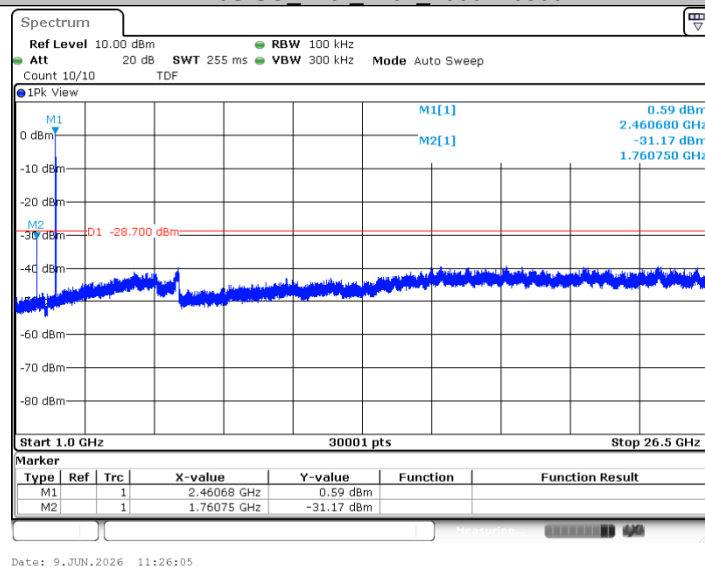
11N20SISO_Ant1_2462_0~Reference



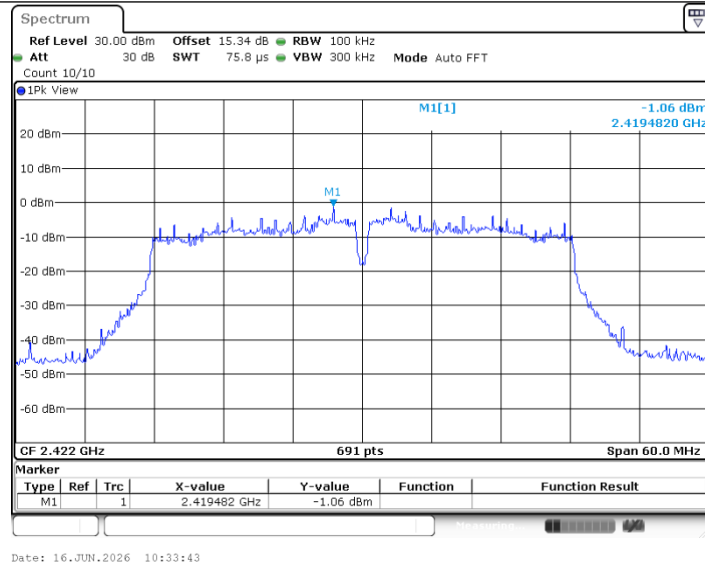
11N20SISO_Ant1_2462_30~1000



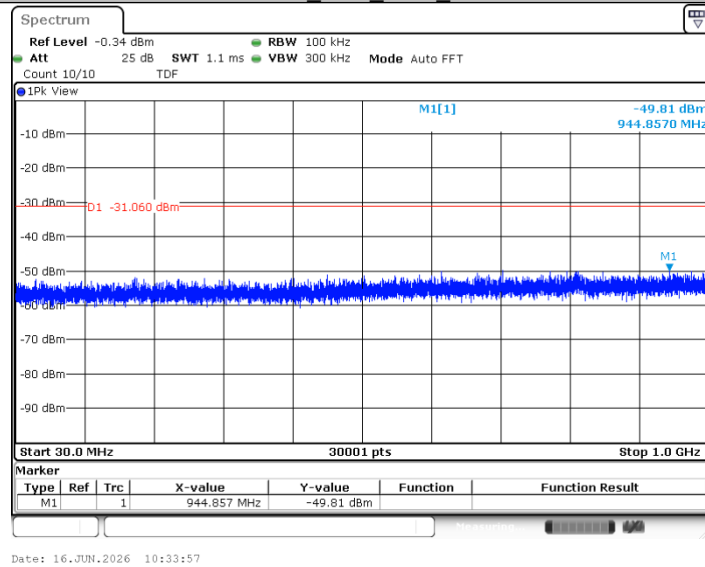
11N20SISO_Ant1_2462_1000~26500



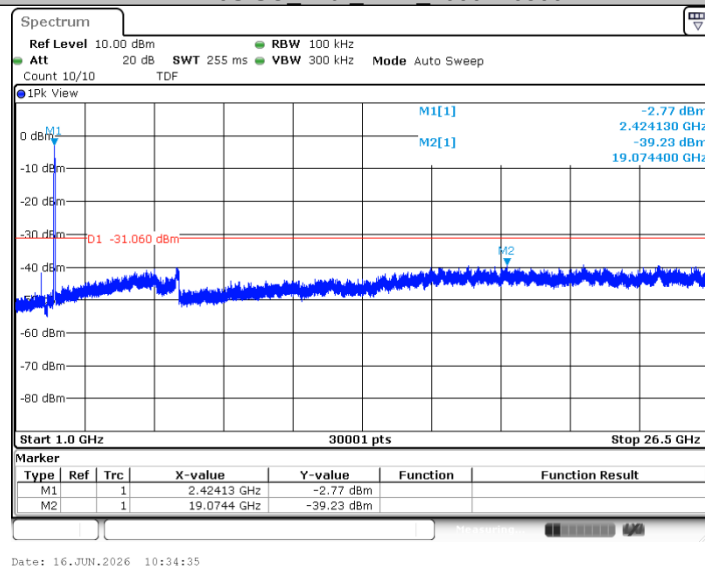
11N40SISO_Ant1_2422_0~Reference



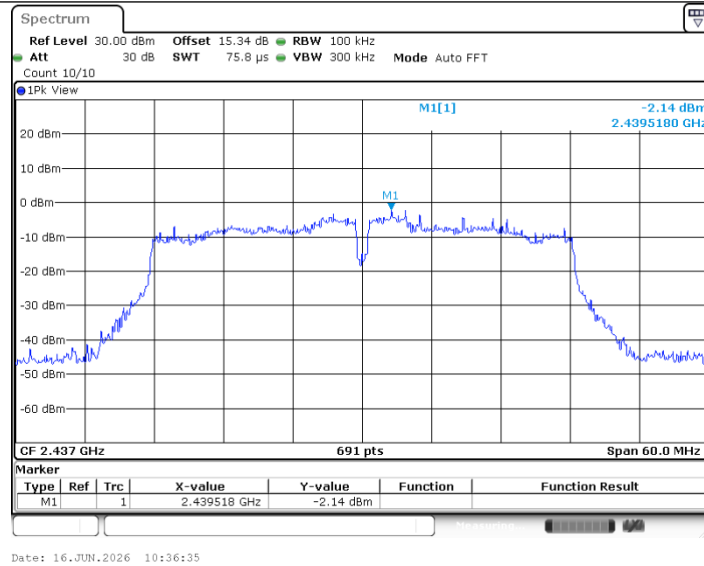
11N40SISO_Ant1_2422_30~1000



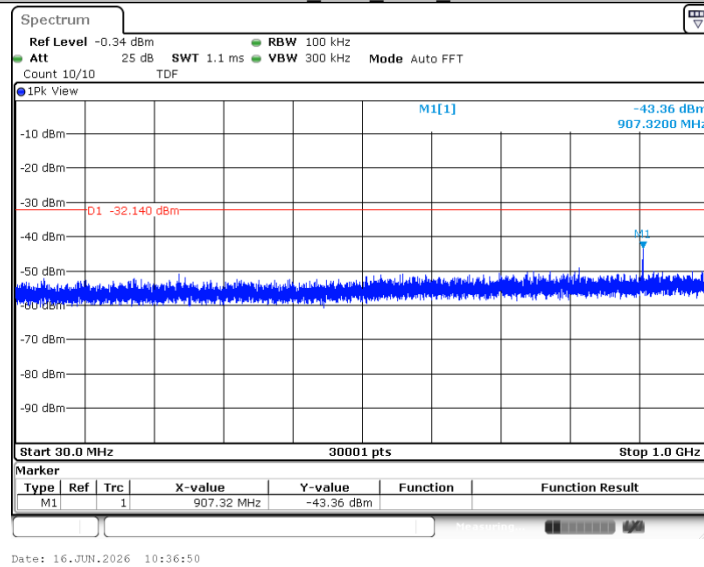
11N40SISO_Ant1_2422_1000~26500



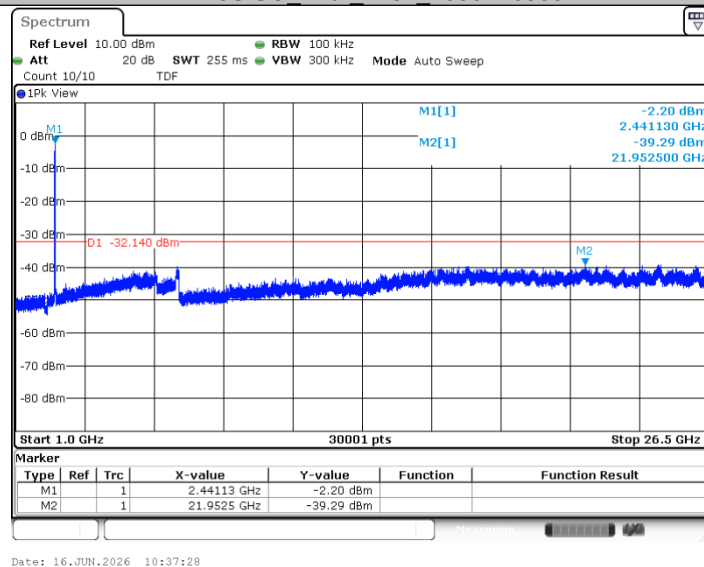
11N40SISO_Ant1_2437_0~Reference



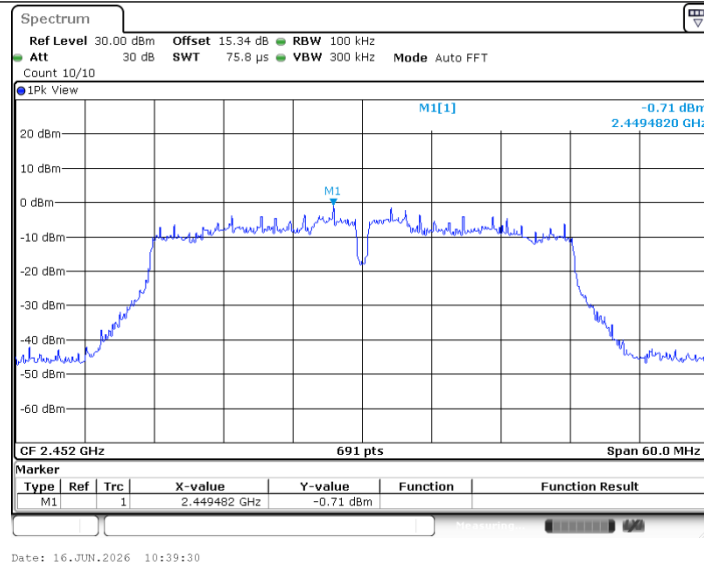
11N40SISO_Ant1_2437_30~1000



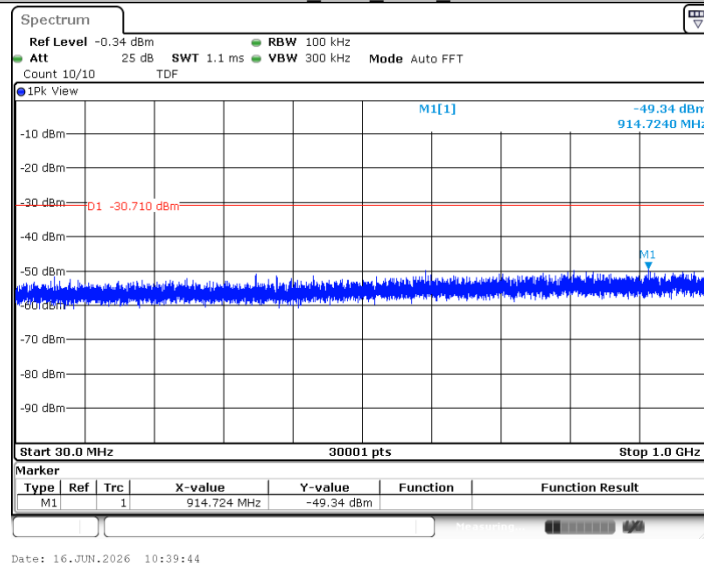
11N40SISO_Ant1_2437_1000~26500



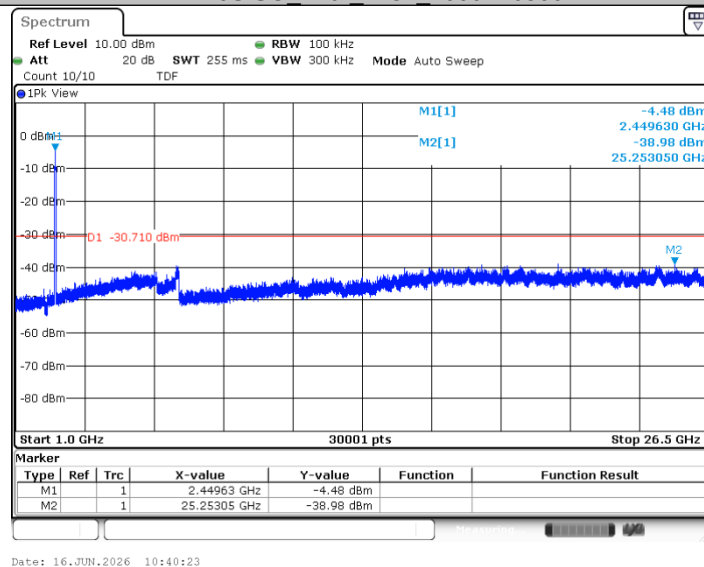
11N40SISO_Ant1_2452_0~Reference



11N40SISO_Ant1_2452_30~1000



11N40SISO_Ant1_2452_1000~26500



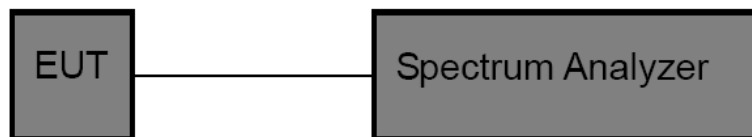
3.4. DTS Bandwidth

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2)

Test Item	Limit	Frequency Range (MHz)
DTS Bandwidth	≥ 500 kHz (6dB bandwidth)	2400~2483.5

Test Configuration



Test Procedure

- The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
- DTS Spectrum Setting:
 - Set RBW = 100 kHz.
 - Set the video bandwidth (VBW) ≥ 3 RBW.
 - Detector = Peak.
 - Trace mode = Max hold.
 - Sweep = Auto couple.
- OCB Spectrum Setting:
 - Set RBW = 1% ~ 5% occupied bandwidth.
 - Set the video bandwidth (VBW) ≥ 3 RBW.
 - Detector = Peak.
 - Trace mode = Max hold.
 - Sweep = Auto couple.

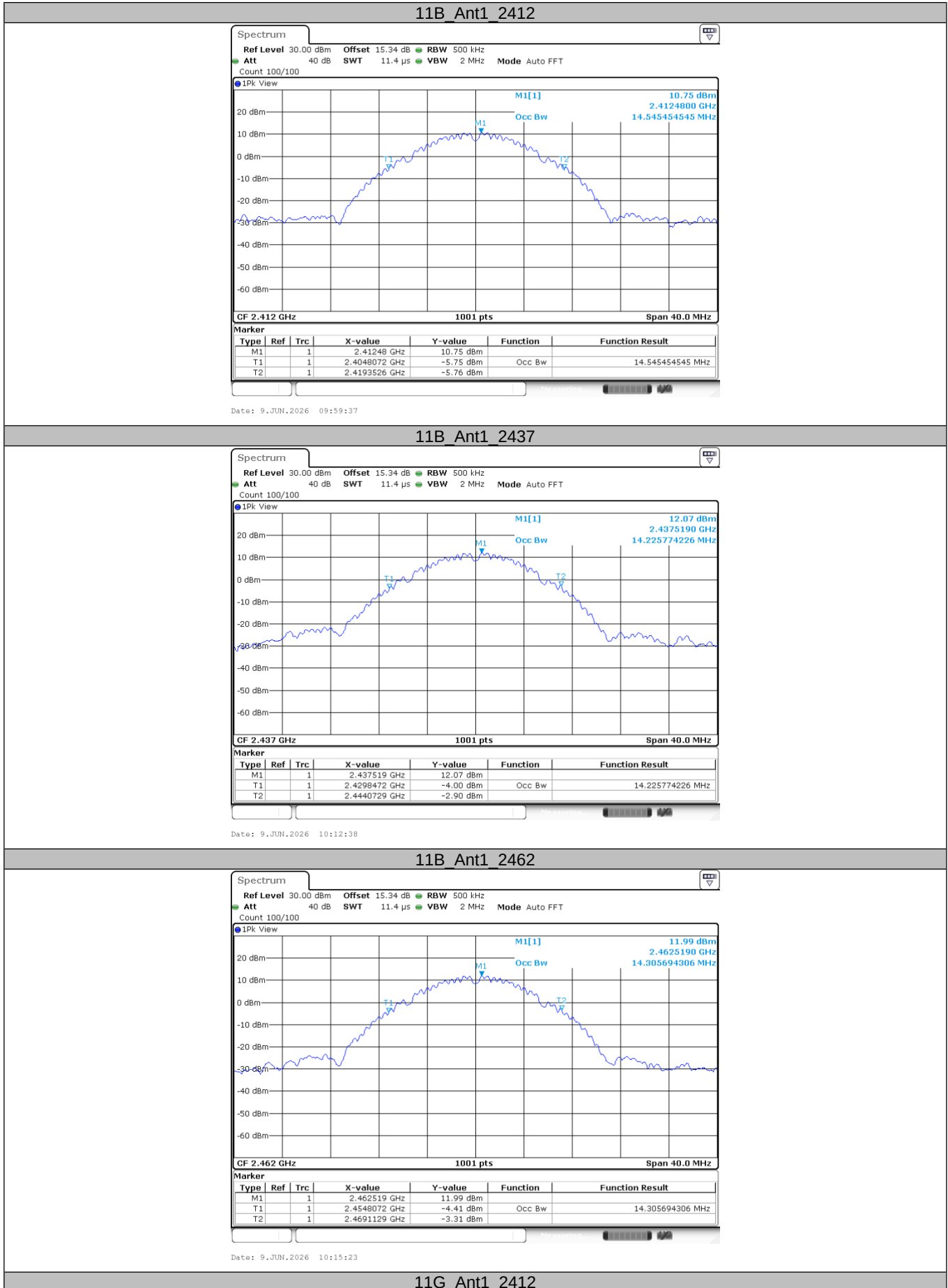
NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

Test Mode

Please refer to the clause 2.4.

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	14.545	8.08	2407.96	2416.04	0.5	PASS
	Ant1	2437	14.226	7.12	2433.44	2440.56	0.5	PASS
	Ant1	2462	14.306	8.08	2457.96	2466.04	0.5	PASS
11G	Ant1	2412	16.623	13.80	2404.48	2418.28	0.5	PASS
	Ant1	2437	16.743	12.56	2430.72	2443.28	0.5	PASS
	Ant1	2462	16.543	12.56	2455.72	2468.28	0.5	PASS
11N20SISO	Ant1	2412	17.862	15.96	2404.44	2420.40	0.5	PASS
	Ant1	2437	17.862	15.00	2429.48	2444.48	0.5	PASS
	Ant1	2462	17.902	14.96	2454.56	2469.52	0.5	PASS
11N40SISO	Ant1	2422	36.204	30.16	2409.44	2439.60	0.5	PASS
	Ant1	2437	36.444	35.12	2419.48	2454.60	0.5	PASS
	Ant1	2452	36.284	27.60	2435.68	2463.28	0.5	PASS

99% Bandwidth:

CTC Laboratories, Inc.

Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

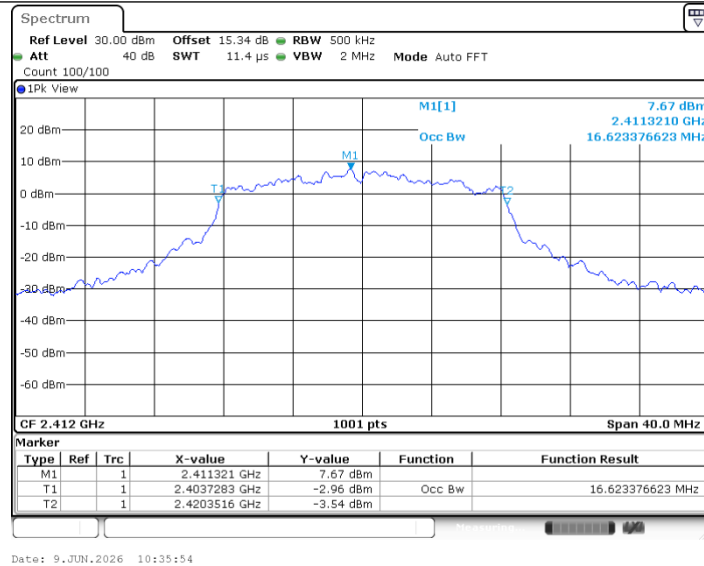
Tel.: (86)755-27521059

Fax: (86)755-27521011

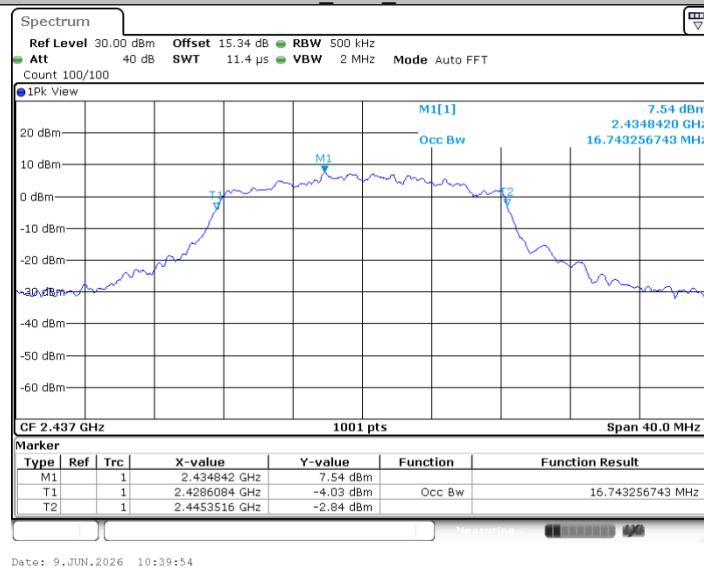
Http://www.sz-ctc.org.cn

TRF No:CTC-TR-057A5

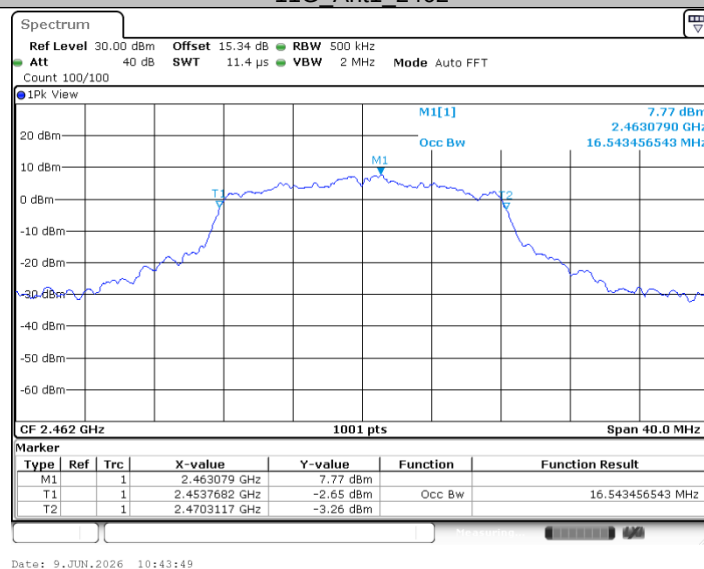
Master TRF:Dated 2026-06-01



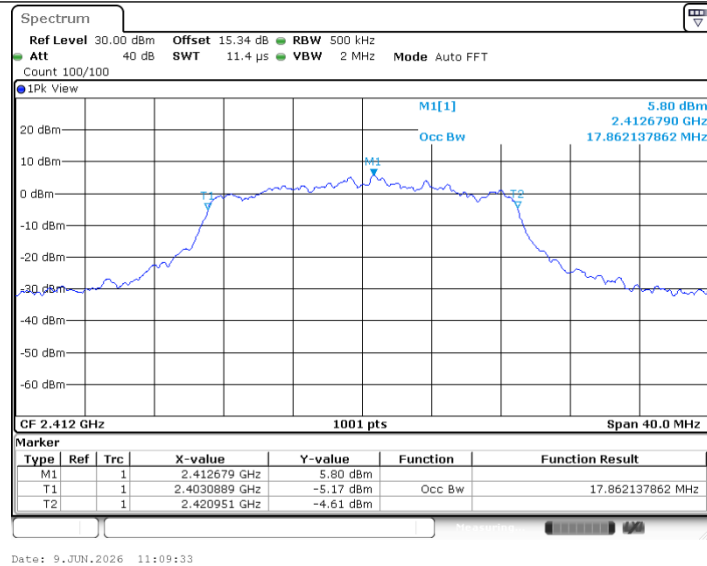
11G_Ant1_2437



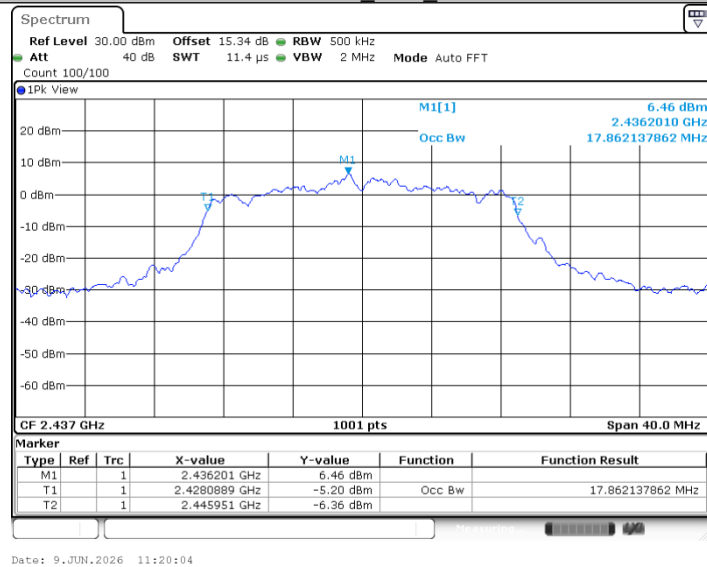
11G_Ant1_2462



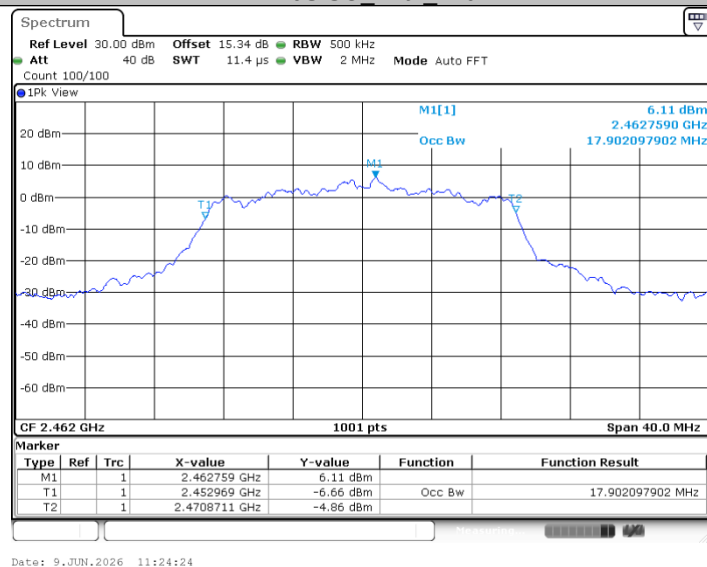
11N20SISO_Ant1_2412



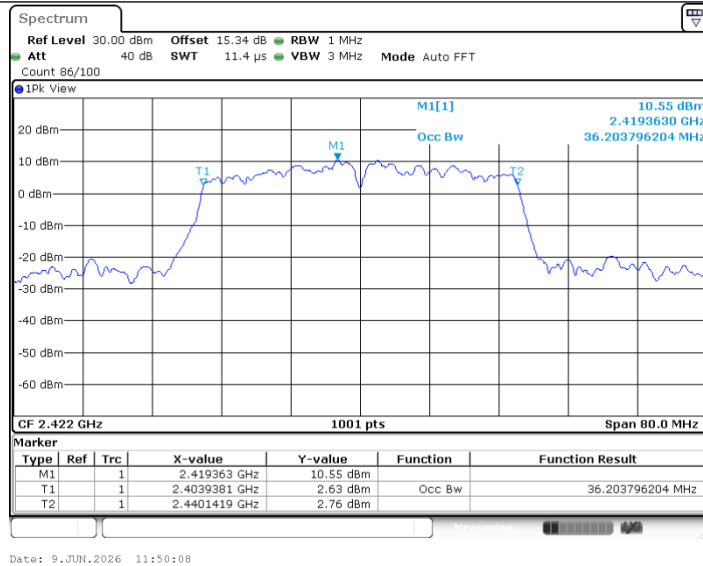
11N20SISO_Ant1_2437



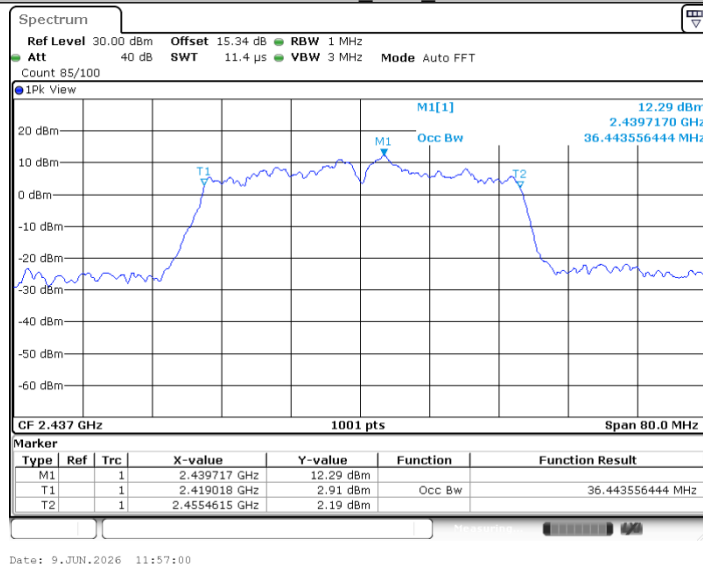
11N20SISO_Ant1_2462



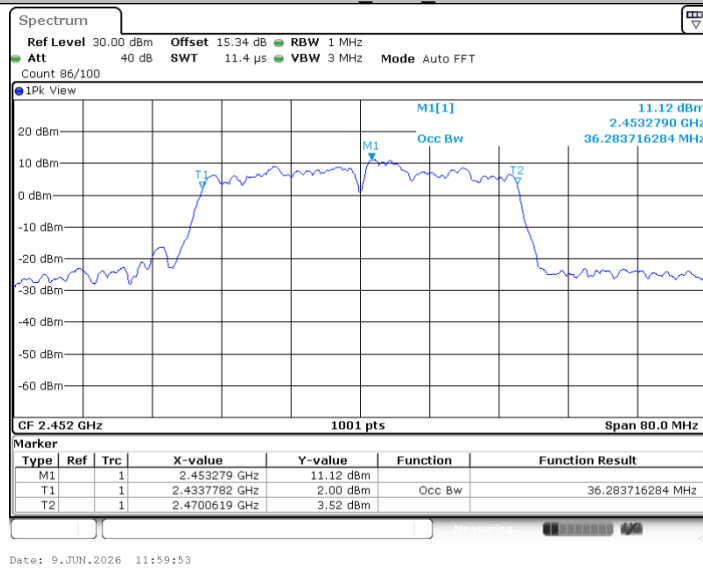
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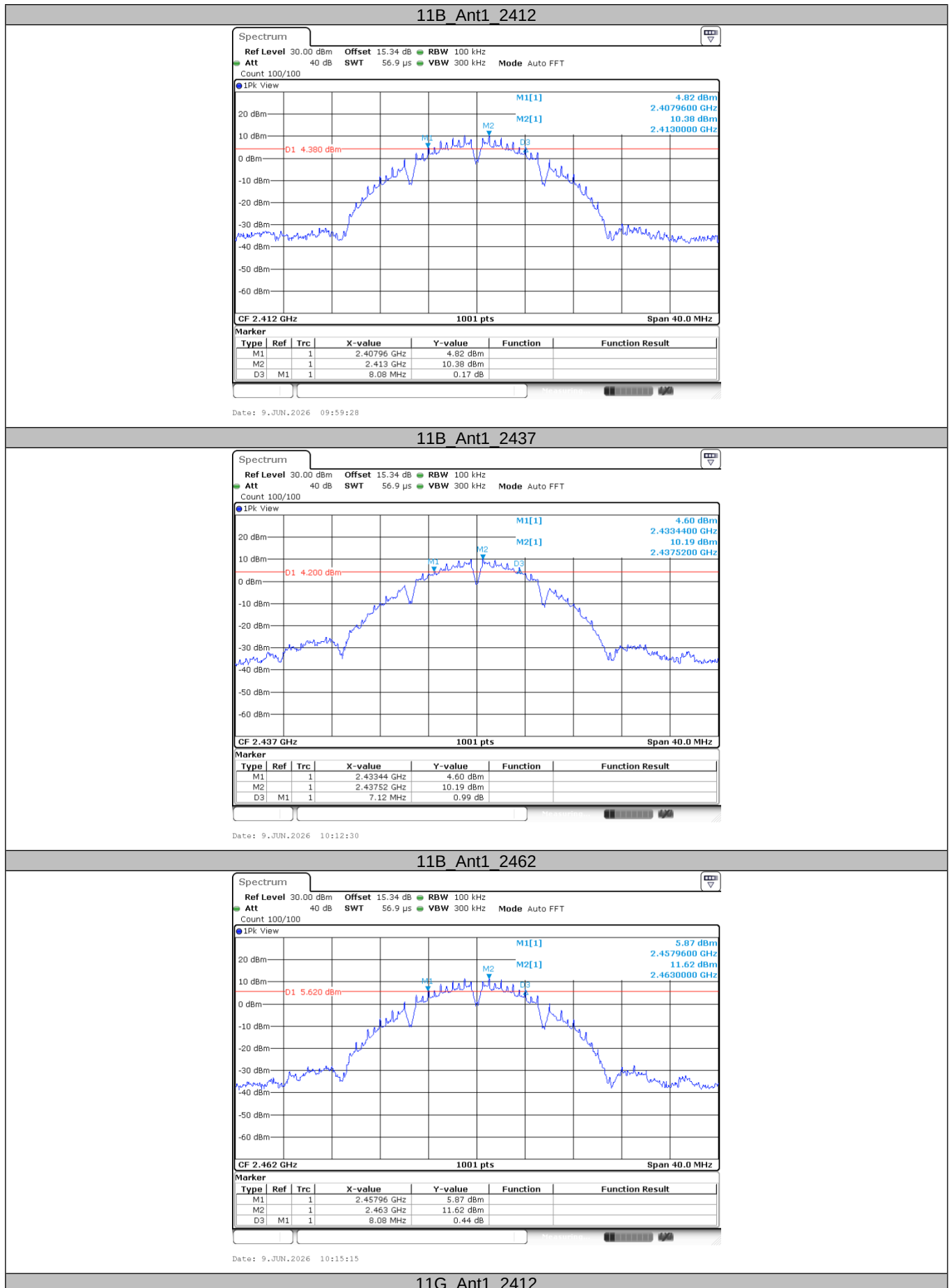


11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



DTS Bandwidth:

CTC Laboratories, Inc.

Room 107, 108, 207, 208 of Building A, Room 101 of Building B, No.7, Lanqing 1st Road, Luhua Community, Guanhu Subdistrict, Longhua District, Shenzhen, Guangdong, China

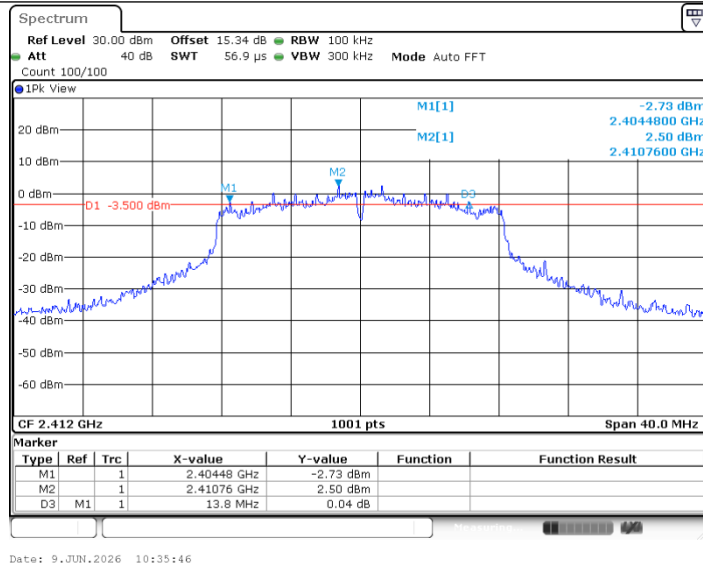
Tel.: (86)755-27521059

Fax: (86)755-27521011

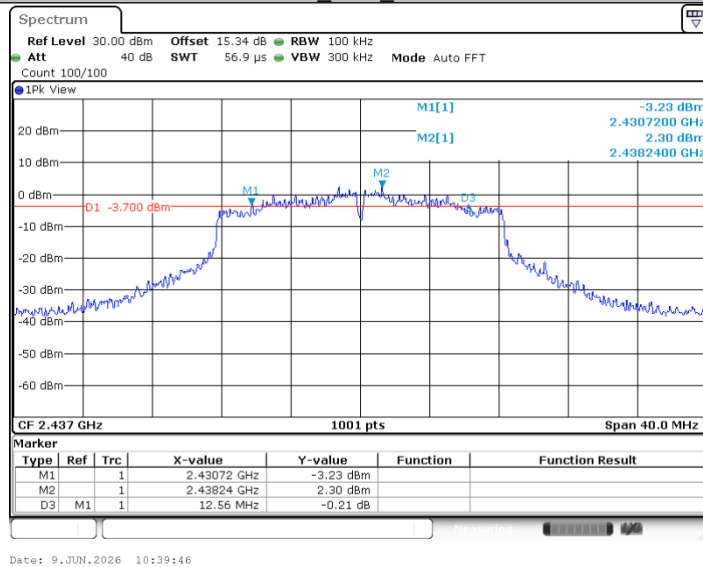
Http://www.sz-ctc.org.cn

TRF No:CTC-TR-057A5

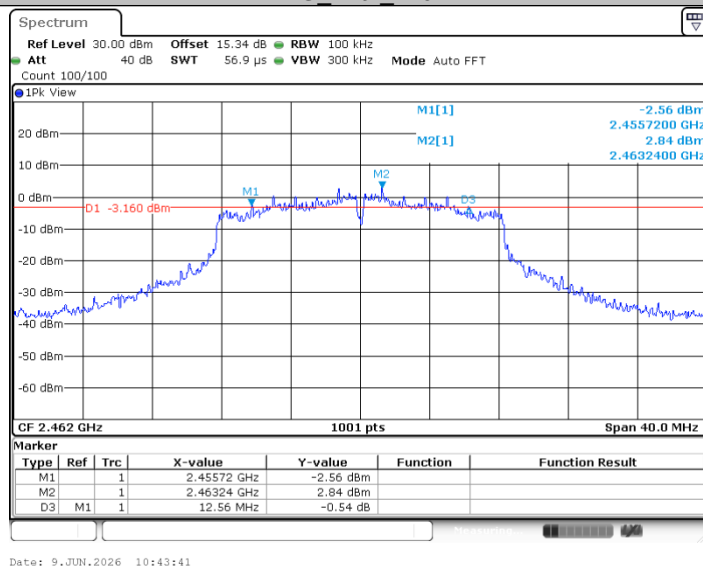
Master TRF:Dated 2026-06-01



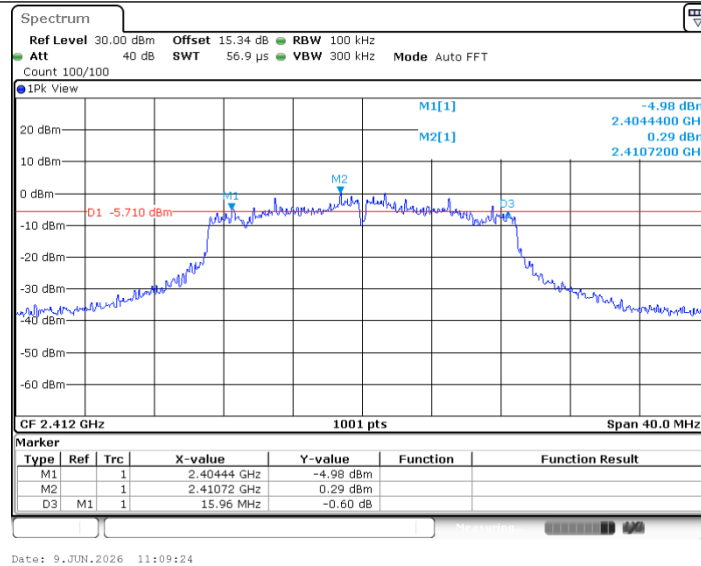
11G_Ant1_2437



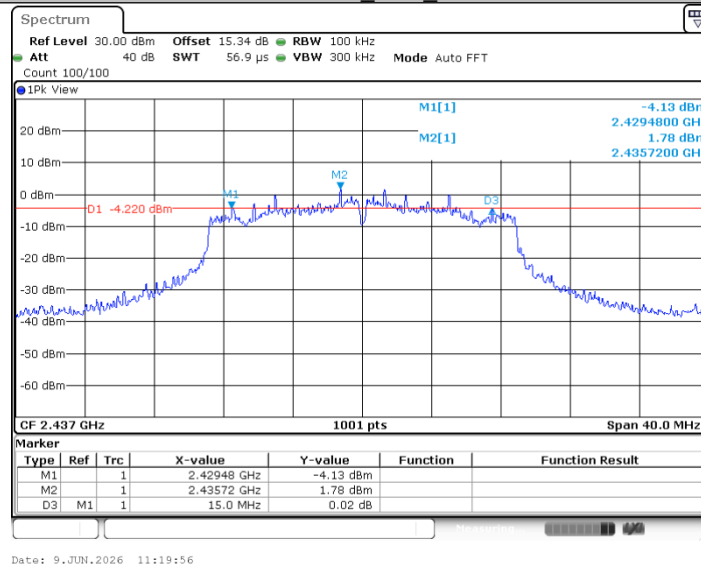
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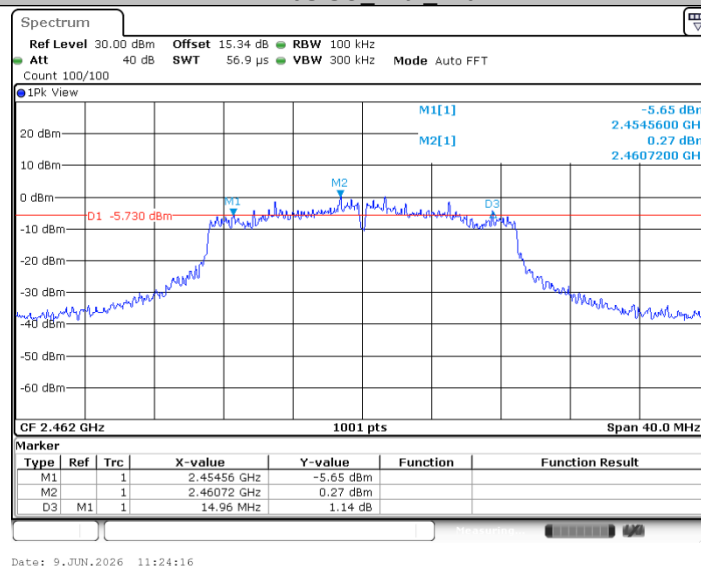
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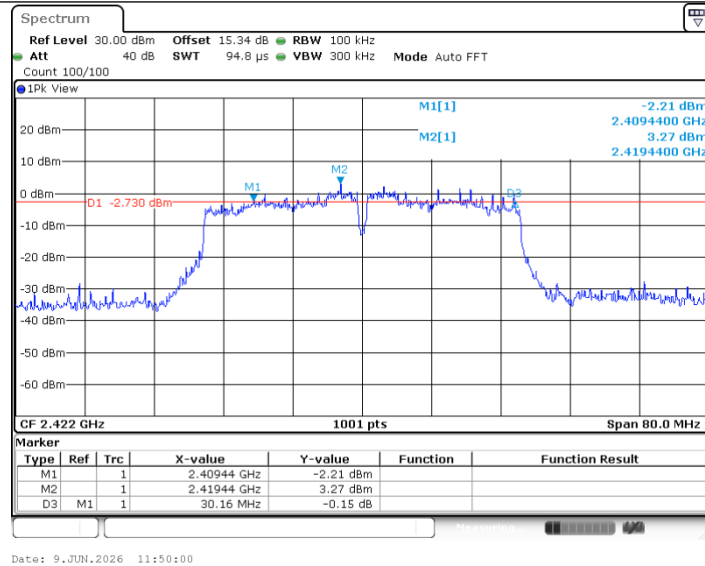
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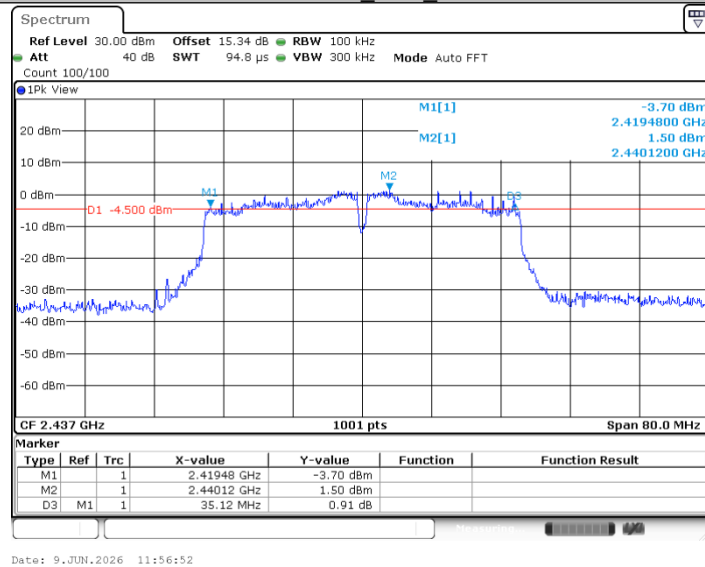
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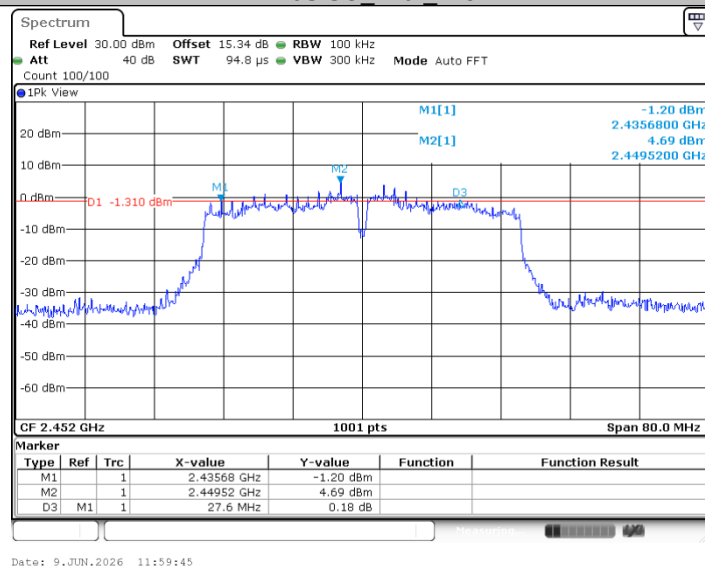
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11N40SISO_Ant1_2437



11N40SISO_Ant1_2452



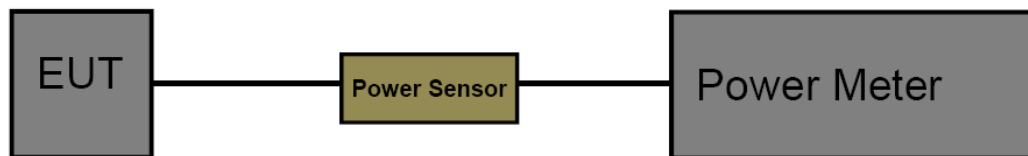
3.5. Peak Output Power

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3)

Section	Test Item	Limit	Frequency Range (MHz)
FCC CFR 47 Part15.247 (b)(3)	Maximum Conducted Output Power	1 Watt or 30dBm	2400~2483.5

Test Configuration



Test Procedure

1. The maximum conducted output power may be measured using a broadband RF power meter.
2. Power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor.
3. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter.
4. Record the measurement data.

Test Mode

Please refer to the clause 2.4.

Test Result

Test Mode	Antenna	Frequency [MHz]	Result [dBm]	Limit [dBm]	Verdict
11B	Ant1	2412	15.49	≤30.00	PASS
	Ant1	2437	16.71	≤30.00	PASS
	Ant1	2462	16.39	≤30.00	PASS
11G	Ant1	2412	12.77	≤30.00	PASS
	Ant1	2437	13.14	≤30.00	PASS
	Ant1	2462	12.92	≤30.00	PASS
11N20SISO	Ant1	2412	10.67	≤30.00	PASS
	Ant1	2437	10.98	≤30.00	PASS
	Ant1	2462	10.65	≤30.00	PASS
11N40SISO	Ant1	2422	10.99	≤30.00	PASS
	Ant1	2437	11.18	≤30.00	PASS
	Ant1	2452	11.06	≤30.00	PASS

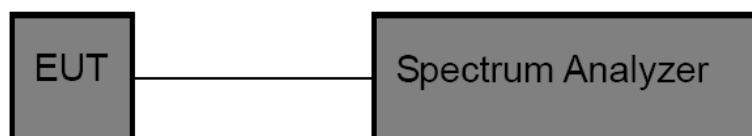
3.6. Power Spectral Density

Limit

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e)

Test Item	Limit	Frequency Range (MHz)
Power Spectral Density	8 dBm (in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
 Set analyzer center frequency to DTS channel center frequency.
 Set the span to 1.5 times the DTS bandwidth.
 Set the RBW to: 3 kHz.
 Set the VBW to: 10 kHz.
 Detector: peak.
 Sweep time: auto.
 Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

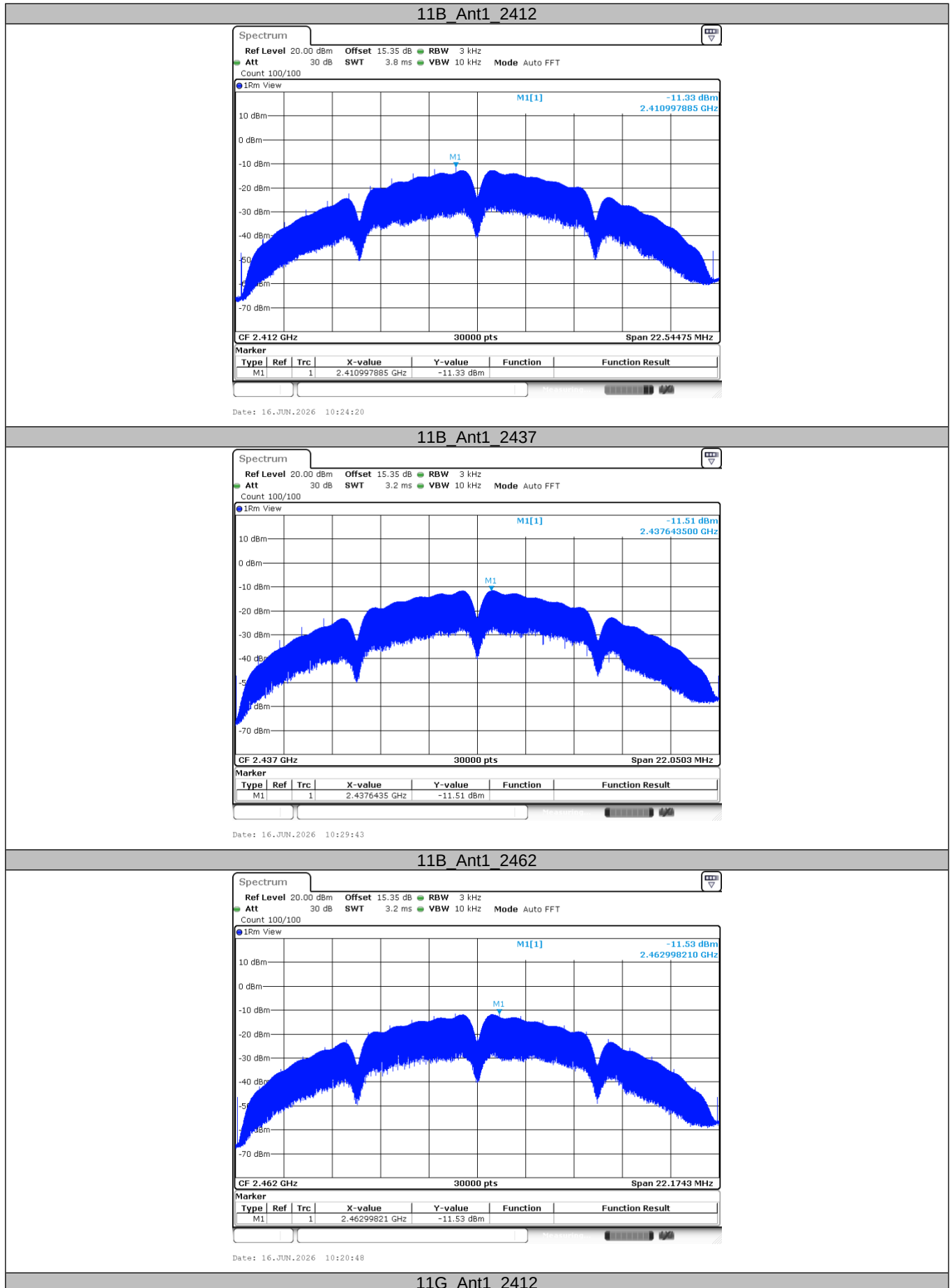
Test Mode

Please refer to the clause 2.4.

Test Result

TestMode	Antenna	Frequency[MHz]	Result[dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1	2412	-11.33	≤8.00	PASS
		2437	-11.51	≤8.00	PASS
		2462	-11.53	≤8.00	PASS
11G	Ant1	2412	-17.14	≤8.00	PASS
		2437	-16.96	≤8.00	PASS
		2462	-16.89	≤8.00	PASS
11N20SISO	Ant1	2412	-20.12	≤8.00	PASS
		2437	-19.36	≤8.00	PASS
		2462	-20.01	≤8.00	PASS
11N40SISO	Ant1	2422	-22.27	≤8.00	PASS
		2437	-22.03	≤8.00	PASS
		2452	-22.40	≤8.00	PASS

Test Graphs:



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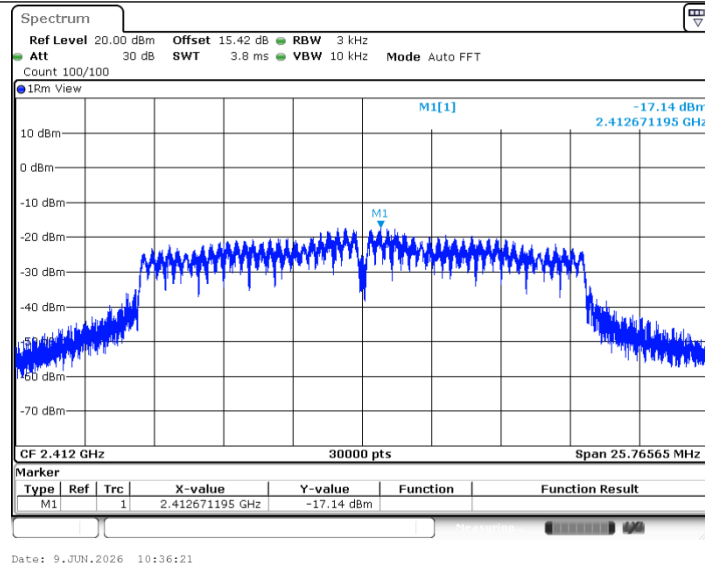
Tel.: (86)755-27521059

Fax: (86)755-27521011

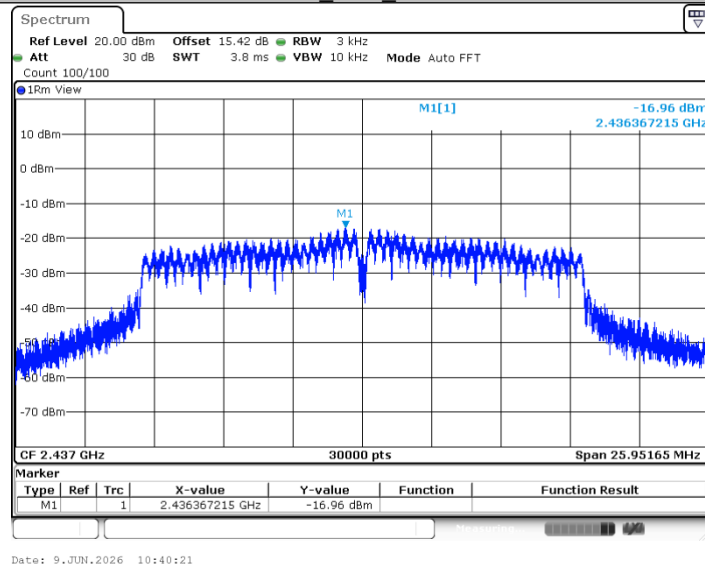
Http://www.sz-ctc.org.cn

TRF No:CTC-TR-057A5

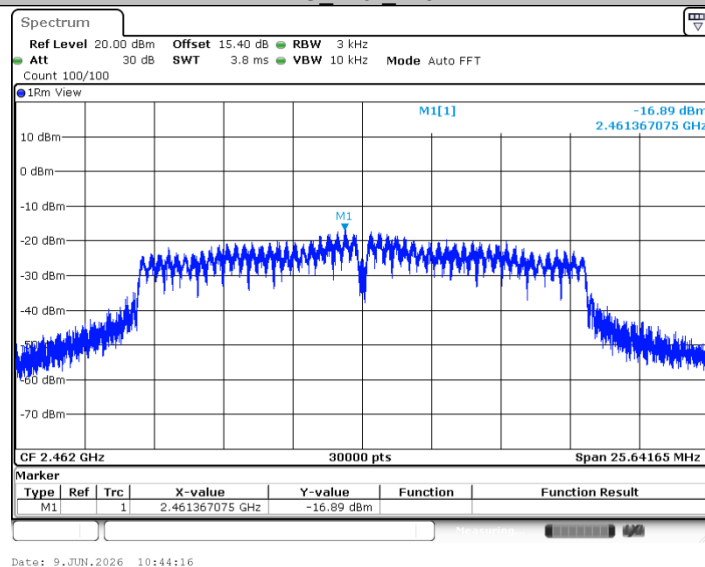
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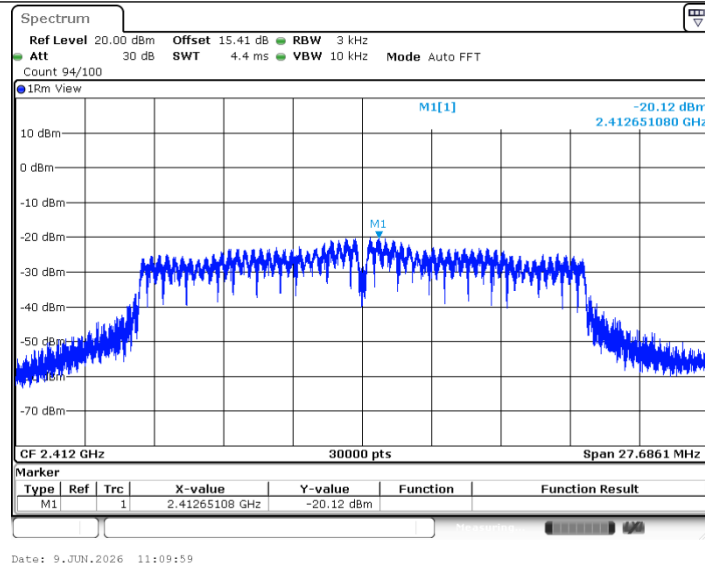
11G_Ant1_2437



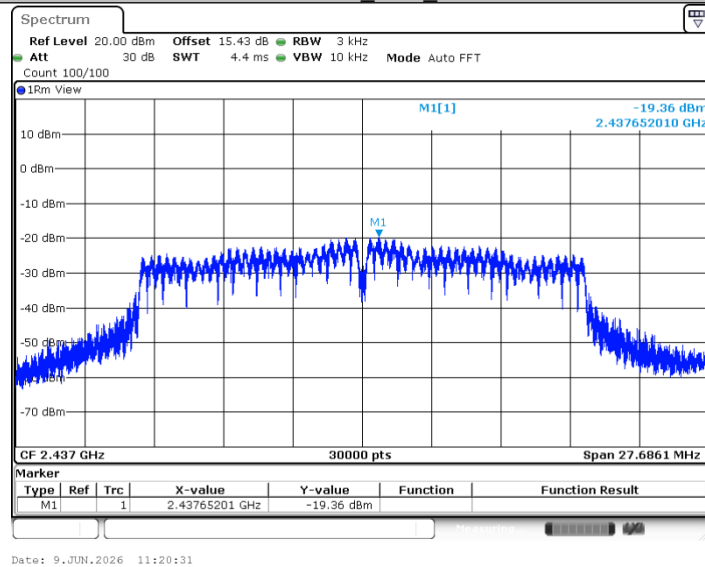
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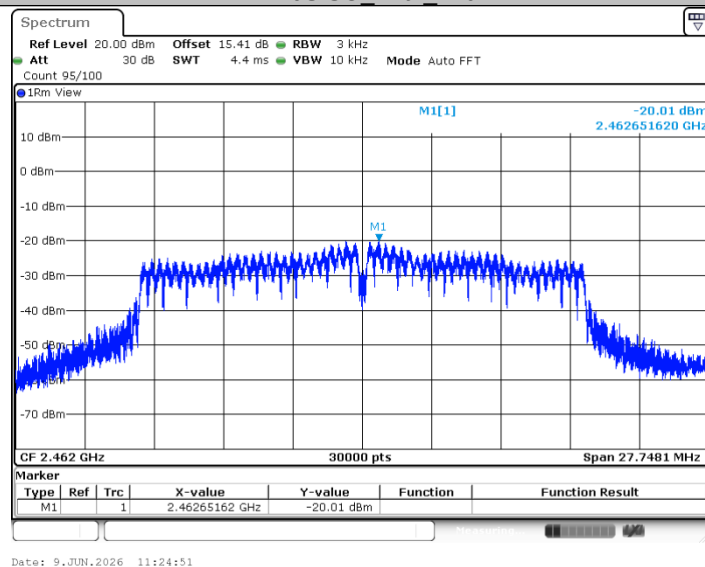
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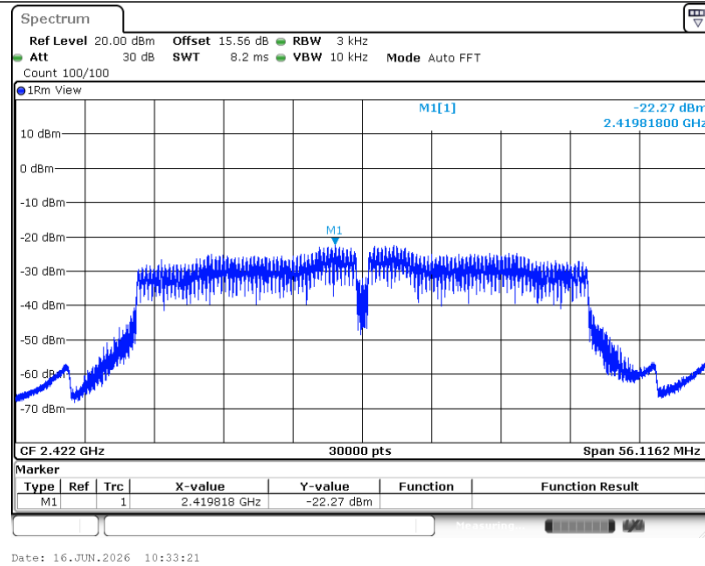
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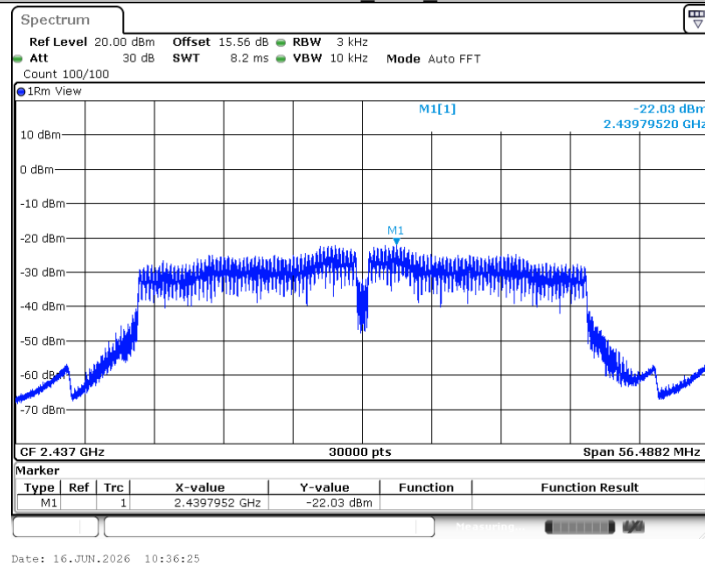
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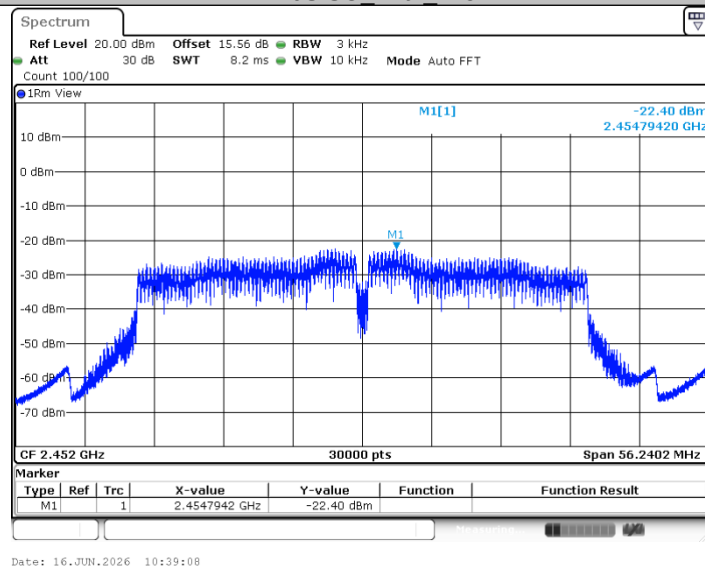
11N40SISO_Ant1_2422



11N40SISO_Ant1_2437



11N40SISO_Ant1_2452

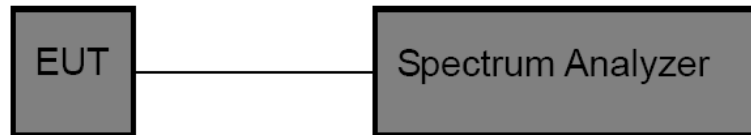


3.7. Duty Cycle

Limit

None, for report purposes only.

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 DTS Meas Guidance v05r02.
3. Spectrum Setting:
Set analyzer center frequency to test channel center frequency.
Set the span to 0Hz.
Set the RBW to 10MHz.
Set the VBW to 10MHz.
Detector: Peak.
Sweep time: Auto.
Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.4.

Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T Minimum VBW (kHz)	Final Setting for VBW (kHz)
11B	Ant1	2412	12.43	12.46	99.76	0.08	1
	Ant1	2437	12.43	12.46	99.76	0.08	1
	Ant1	2462	12.44	12.47	99.76	0.08	1
11G	Ant1	2412	2.06	2.10	98.10	0.49	1
	Ant1	2437	2.06	2.10	98.10	0.49	1
	Ant1	2462	2.07	2.10	98.57	0.48	1
11N20SISO	Ant1	2412	1.93	1.96	98.47	0.52	1
	Ant1	2437	1.92	1.96	97.96	0.52	1
	Ant1	2462	1.93	1.96	98.47	0.52	1
11N40SISO	Ant1	2422	0.95	1.00	95.00	1.05	2
	Ant1	2437	0.95	1.00	95.00	1.05	2
	Ant1	2452	0.95	1.00	95.00	1.05	2

3.8. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C 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. The use of a permanently attached antenna or of antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i)

(i) Systems operating in the 2400~2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result

Pass.

The transmitter employs an integral PCB antenna installed inside the host device. The antenna is permanently attached and cannot be readily replaced by the end user. No standard antenna connector is provided. Therefore, the antenna configuration complies with the requirements of FCC §15.203. The directional gain of the antenna is less than 6dBi, please refer to the EUT internal photographs antenna photo.

*****THE END OF REPORT*****