

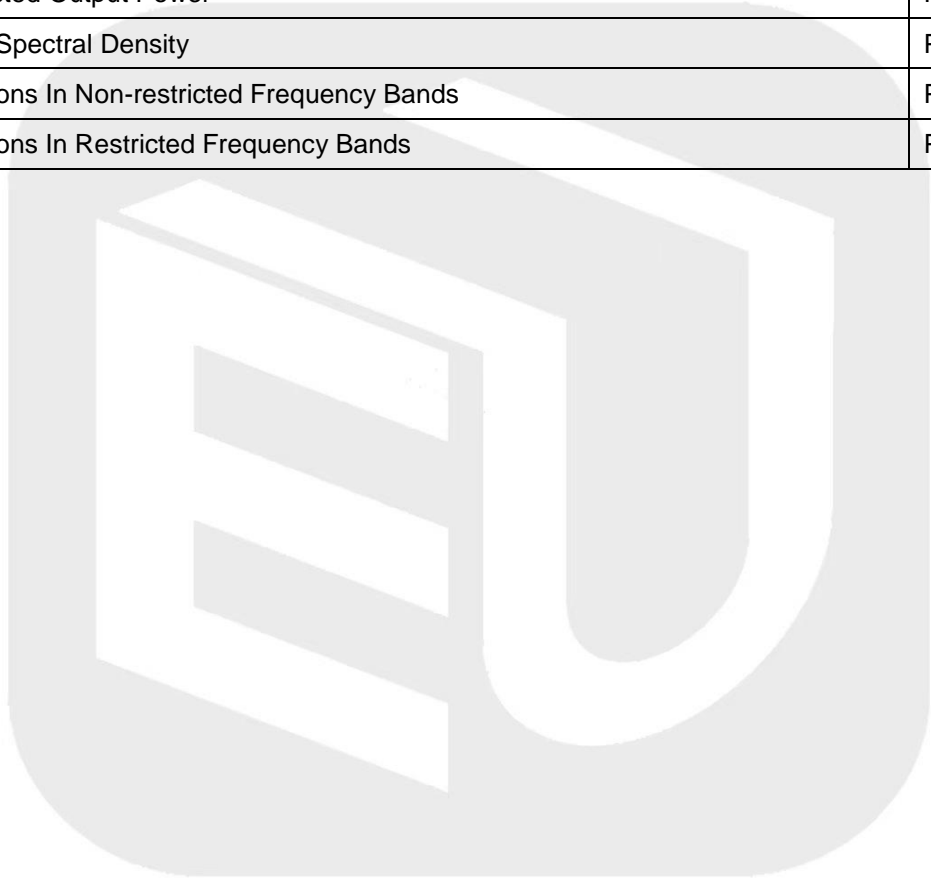
# ANNEX E TEST DATA

## For

Project No.:	8231EU010407W
Client:	Shenzhen Qianhai Biguan electronic Technology Co., LTD
Product Description:	Wireless Bluetooth mouse
Model No.:	OGM Pro V2(WGM833)
FCC ID:	2BCE8M-OGMPROV2
Technology:	2.4G ISM Proprietary Band
Test Engineer:	<i>Mikoy zhu</i>
Test Date:	2024-07-24

## Test Summary

Item	Result
Duty Cycle	Pass
Bandwidth	Pass
Maximum Conducted Output Power	Pass
Maximum Power Spectral Density	Pass
Unwanted Emissions In Non-restricted Frequency Bands	Pass
Unwanted Emissions In Restricted Frequency Bands	Pass



## 1. Duty Cycle

### 1.1 Test Result

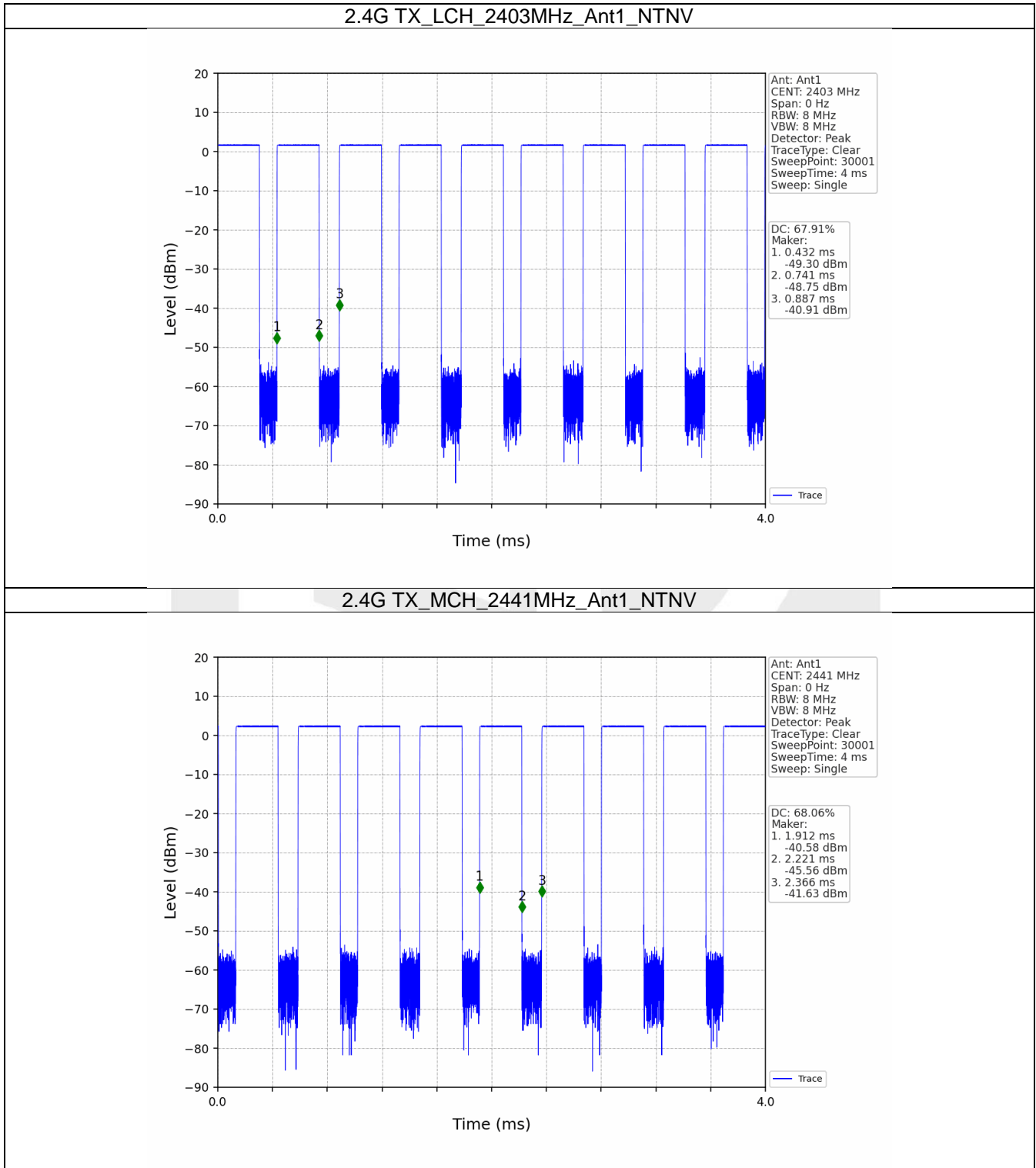
#### 1.1.1 Ant1

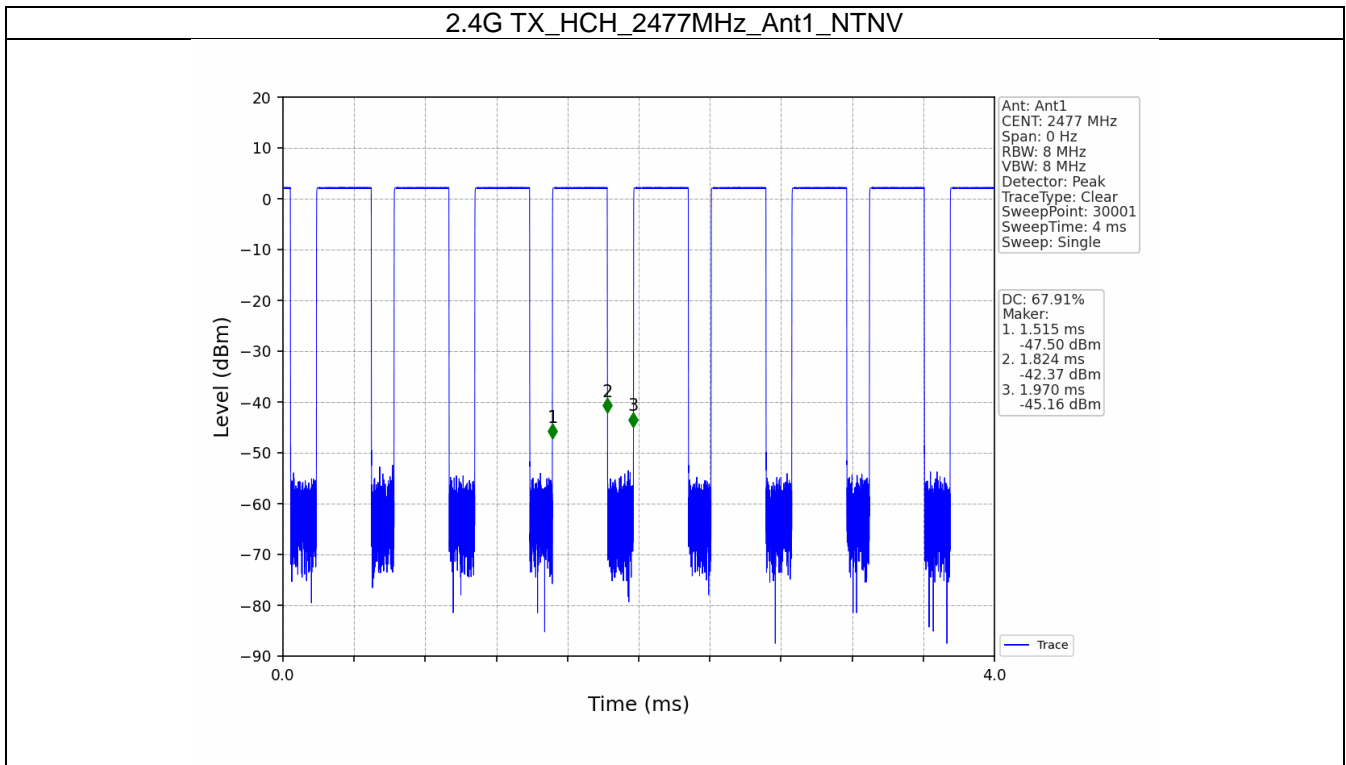
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
2.4G TX	SISO	2403	0.309	0.455	67.91	1.68	3.00
		2441	0.309	0.454	68.06	1.67	2.78
		2477	0.309	0.455	67.91	1.68	3.03



## 1.2 Test Graph

### 1.2.1 Ant1





## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

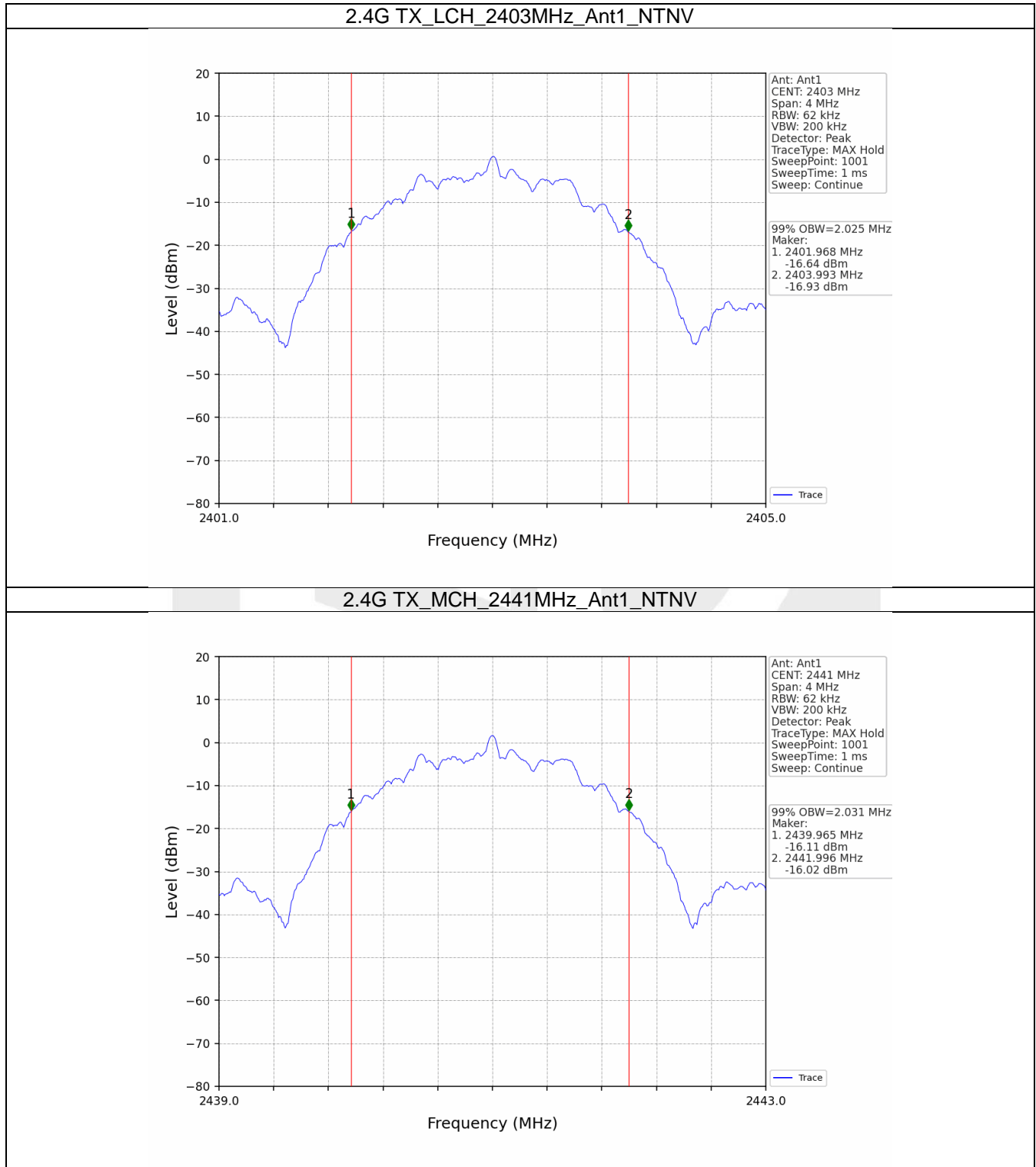
Mode	TX Type	Frequency (MHz)	ANT	99% Occupied Bandwidth (MHz)		Verdict
				Result	Limit	
2.4G TX	SISO	2403	1	2.025	/	Pass
		2441	1	2.031	/	Pass
		2477	1	2.035	/	Pass

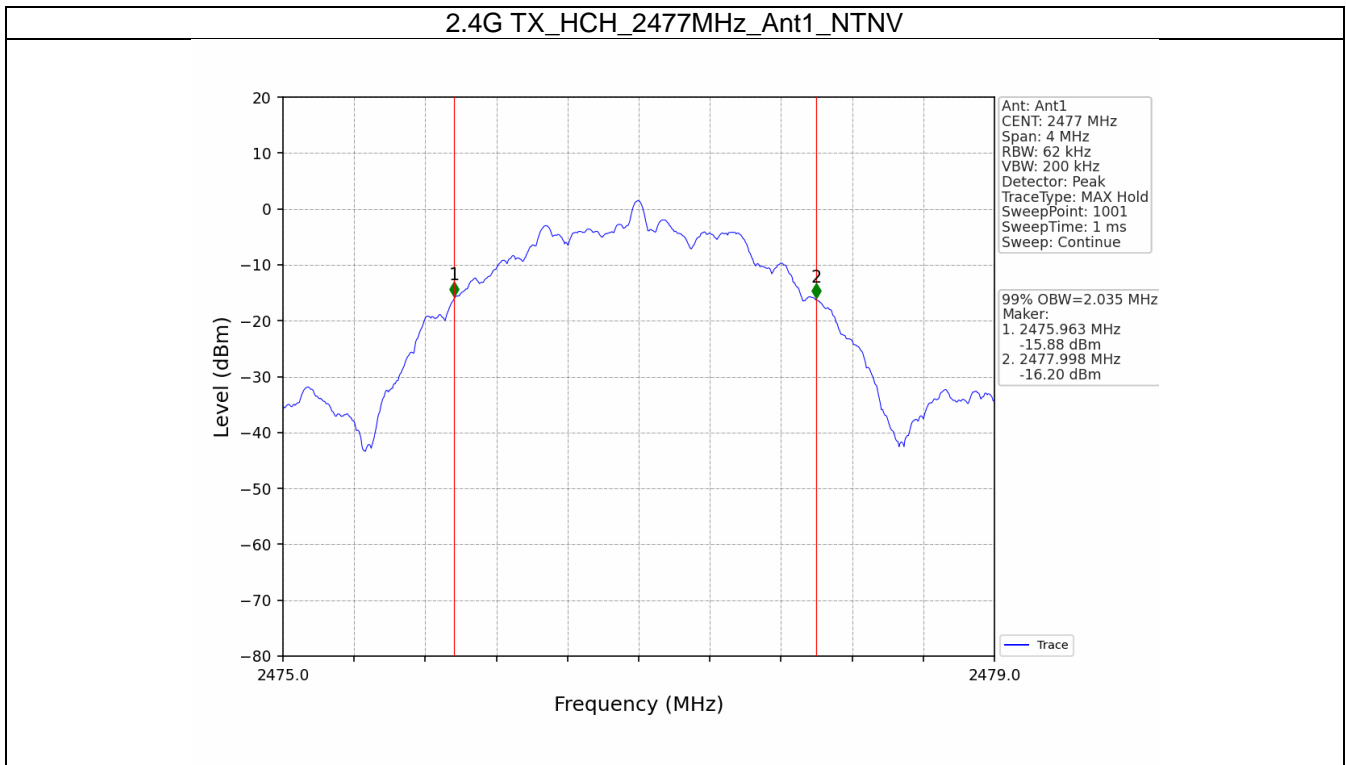
#### 2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	ANT	6dB Bandwidth (MHz)		Verdict
				Result	Limit	
2.4G TX	SISO	2403	1	1.150	$\geq 0.5$	Pass
		2441	1	1.146	$\geq 0.5$	Pass
		2477	1	1.147	$\geq 0.5$	Pass

## 2.2 Test Graph

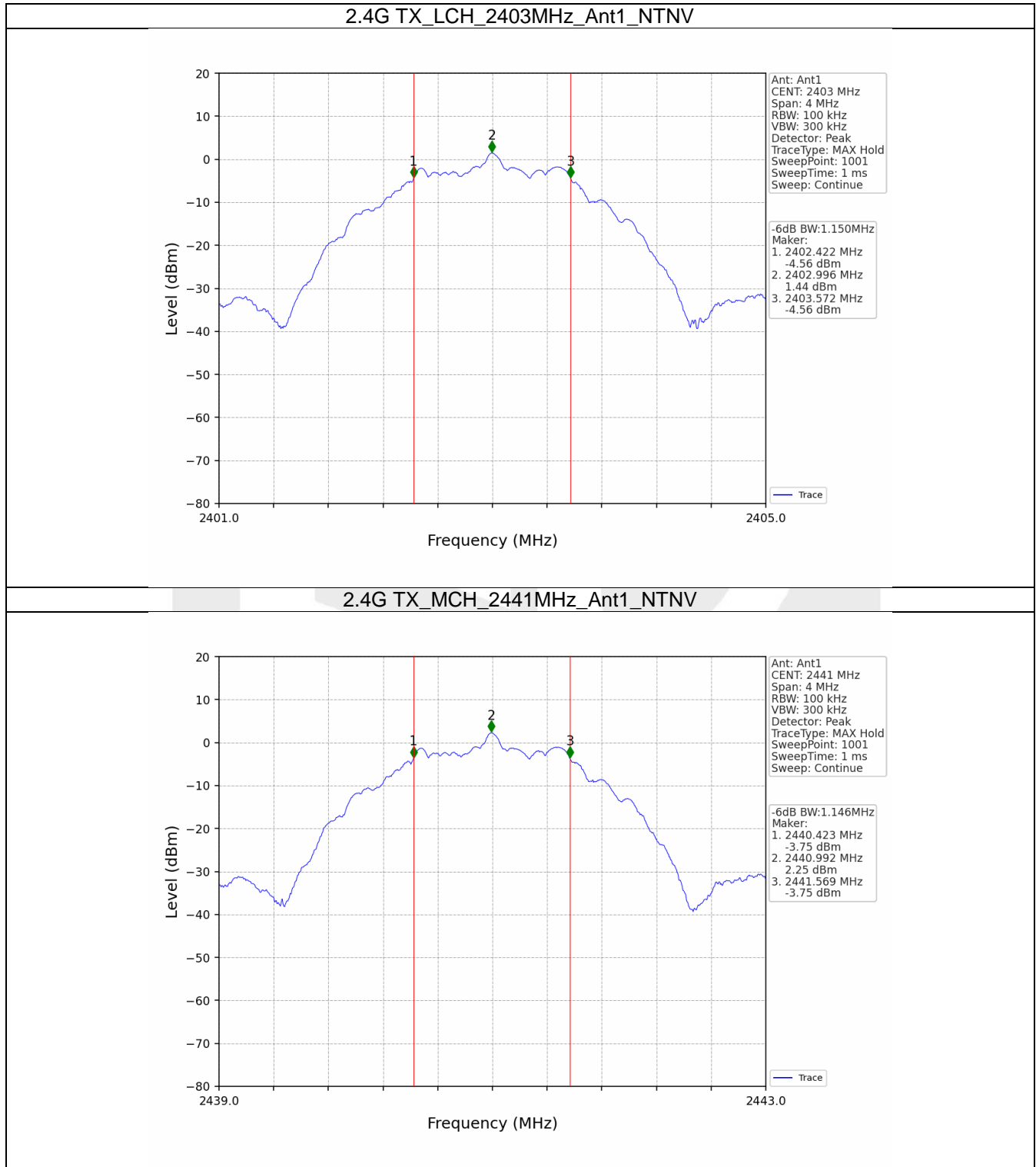
### 2.2.1 OBW

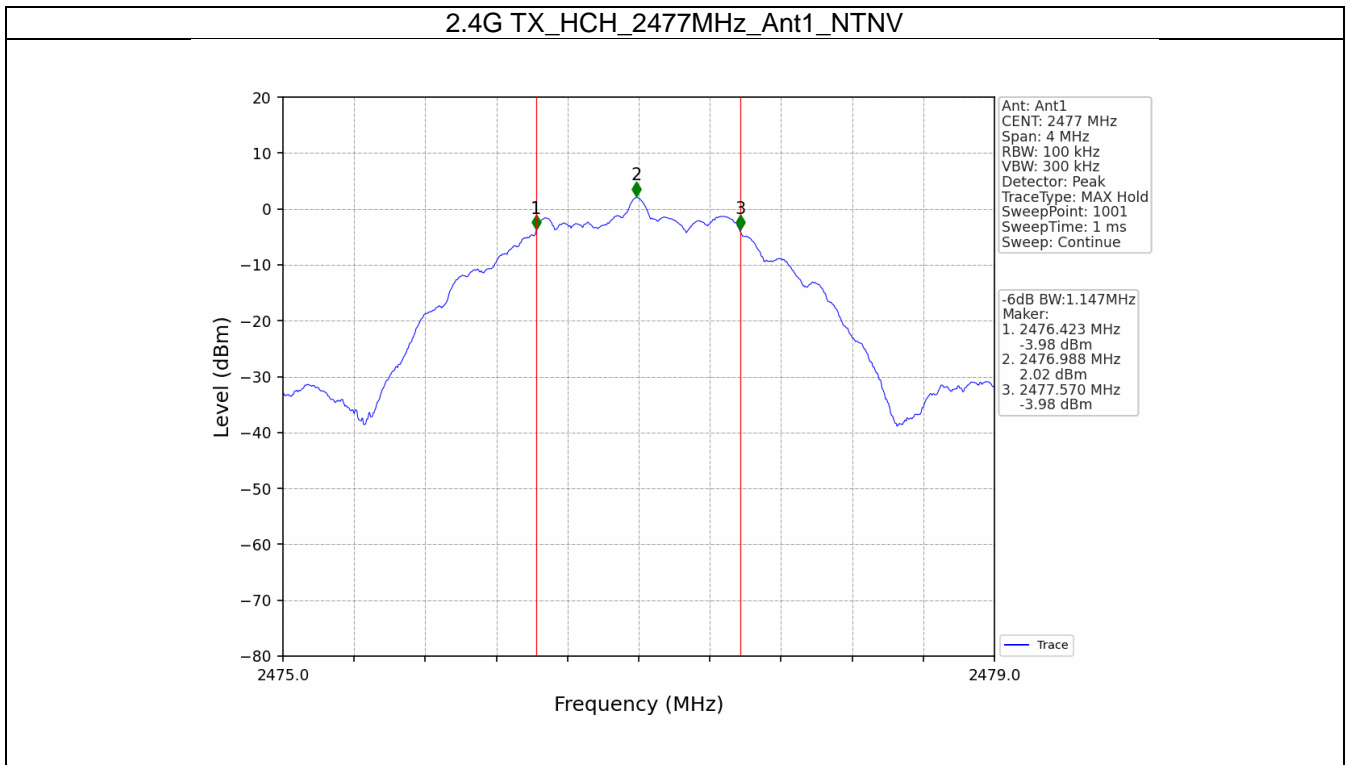






2.2.2 6dB BW





### 3. Maximum Conducted Output Power

#### 3.1 Test Result

##### 3.1.1 Power

Mode	TX Type	Frequency (MHz)	Maximum Peak Conducted Output Power (dBm)		Verdict
			ANT1	Limit	
2.4G TX	SISO	2403	1.67	<=30	Pass
		2441	2.41	<=30	Pass
		2477	2.15	<=30	Pass

### 4. Maximum Power Spectral Density

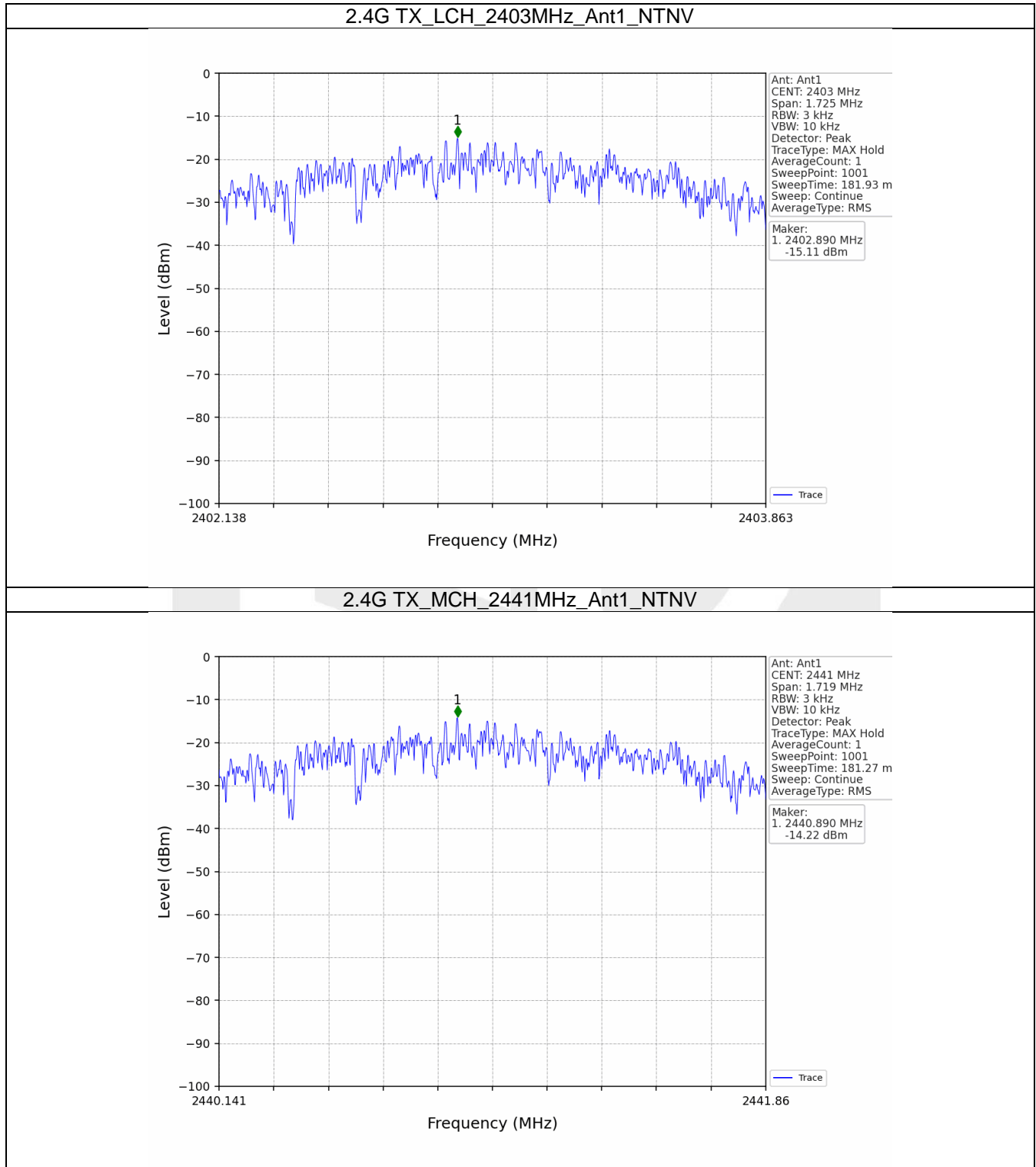
#### 4.1 Test Result

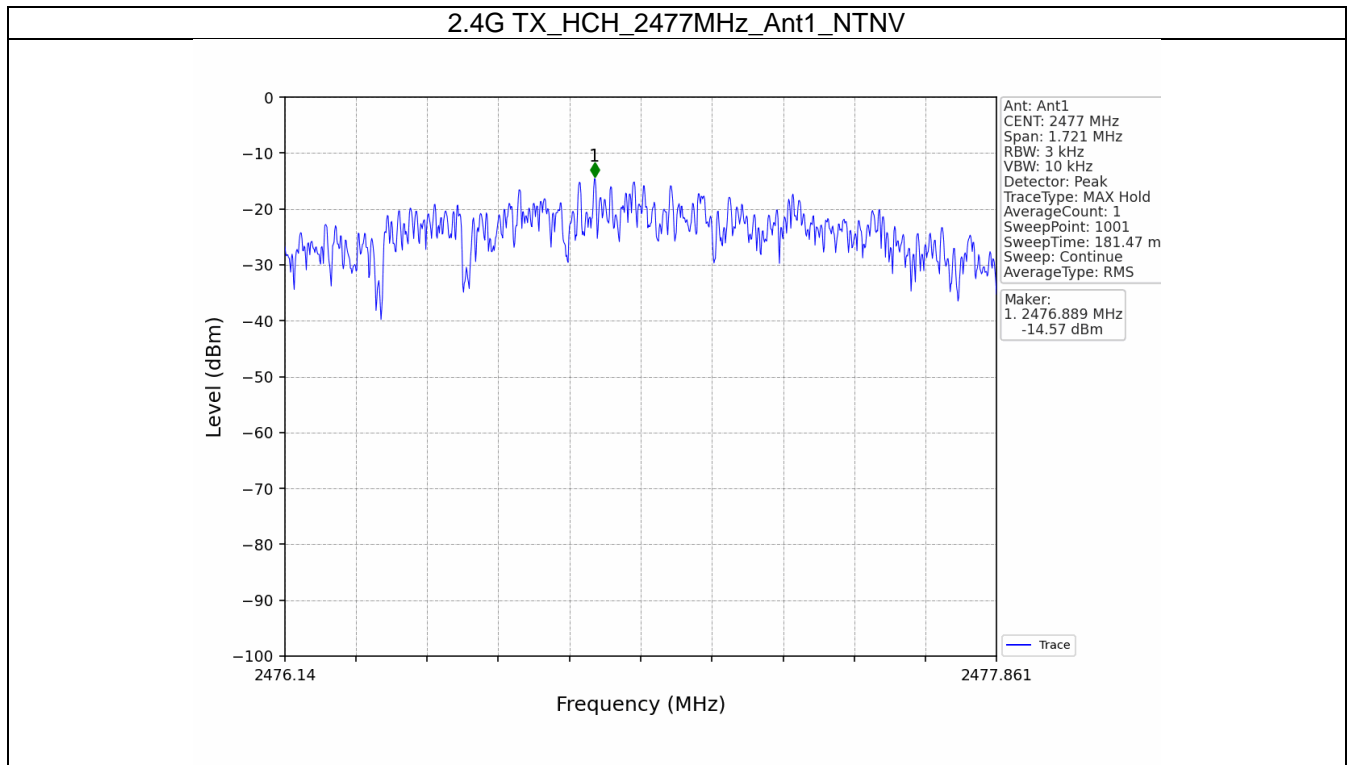
##### 4.1.1 PSD

Mode	TX Type	Frequency (MHz)	Maximum PSD (dBm/3kHz)		Verdict
			ANT1	Limit	
2.4G TX	SISO	2403	-15.11	<=8	Pass
		2441	-14.22	<=8	Pass
		2477	-14.57	<=8	Pass

## 4.2 Test Graph

### 4.2.1 PSD





## 5. Unwanted Emissions In Non-restricted Frequency Bands

### 5.1 Test Result

#### 5.1.1 Ref

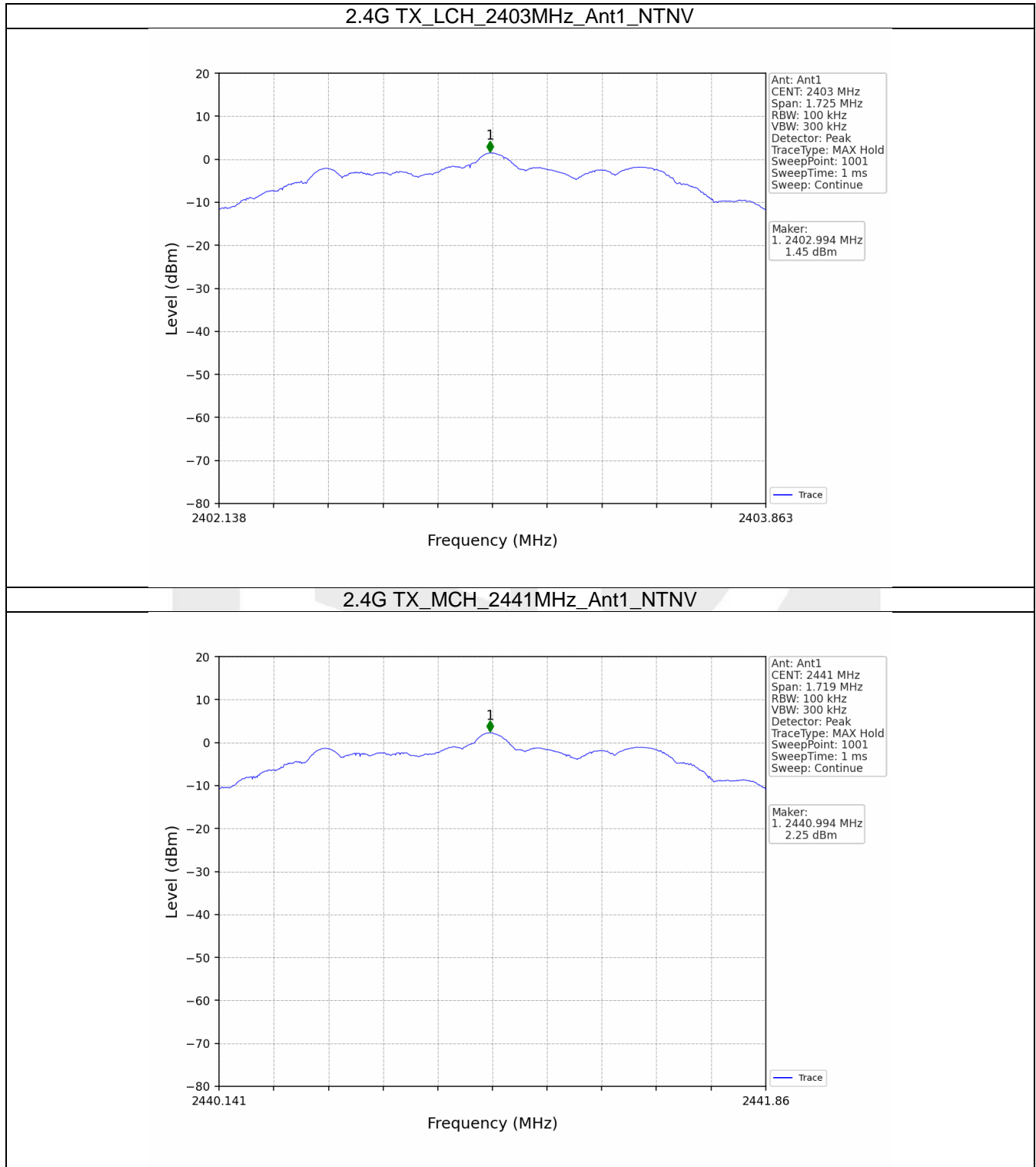
Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)
2.4G TX	SISO	2403	1	1.45
		2441	1	2.25
		2477	1	2.02
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.				

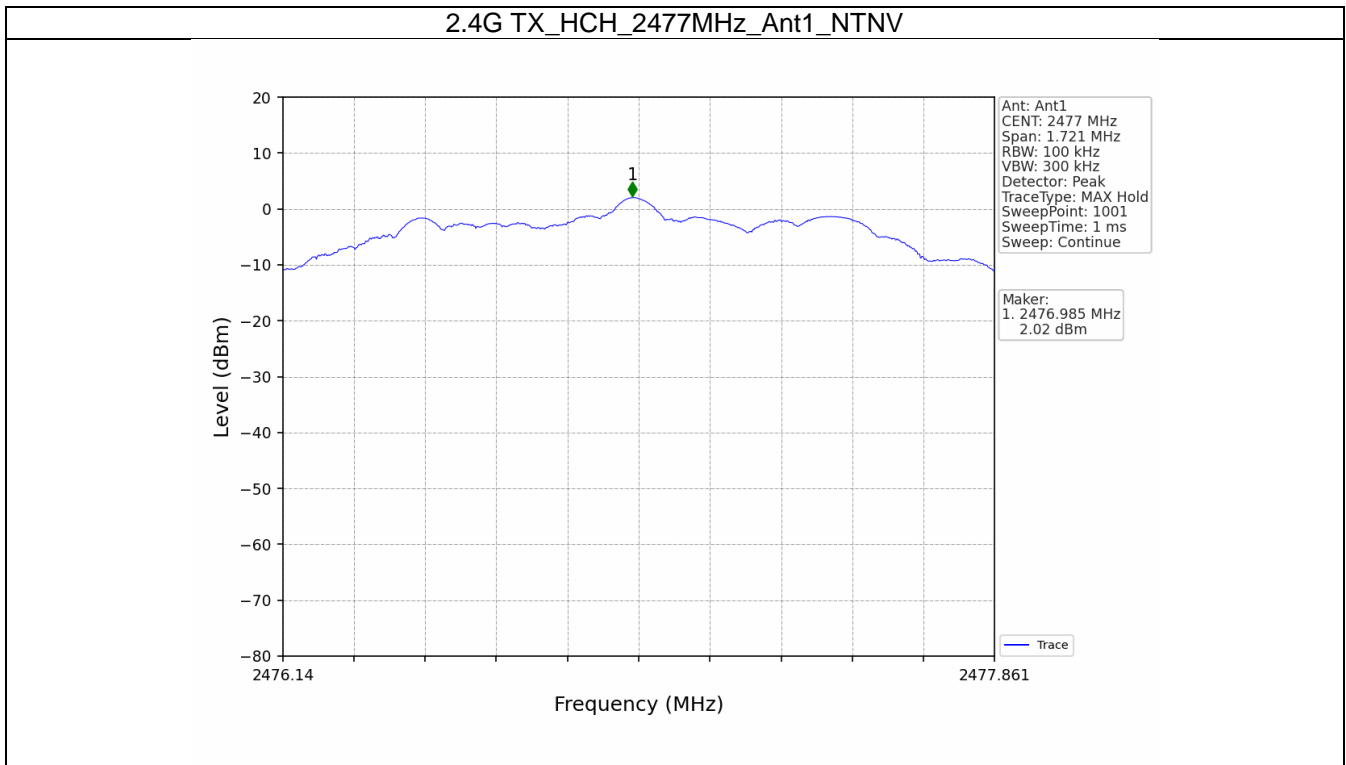
#### 5.1.2 CSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
2.4G TX	SISO	2403	1	1.45	-18.55	Pass
		2441	1	2.25	-17.75	Pass
		2477	1	2.02	-17.98	Pass
Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level.						

## 5.2 Test Graph

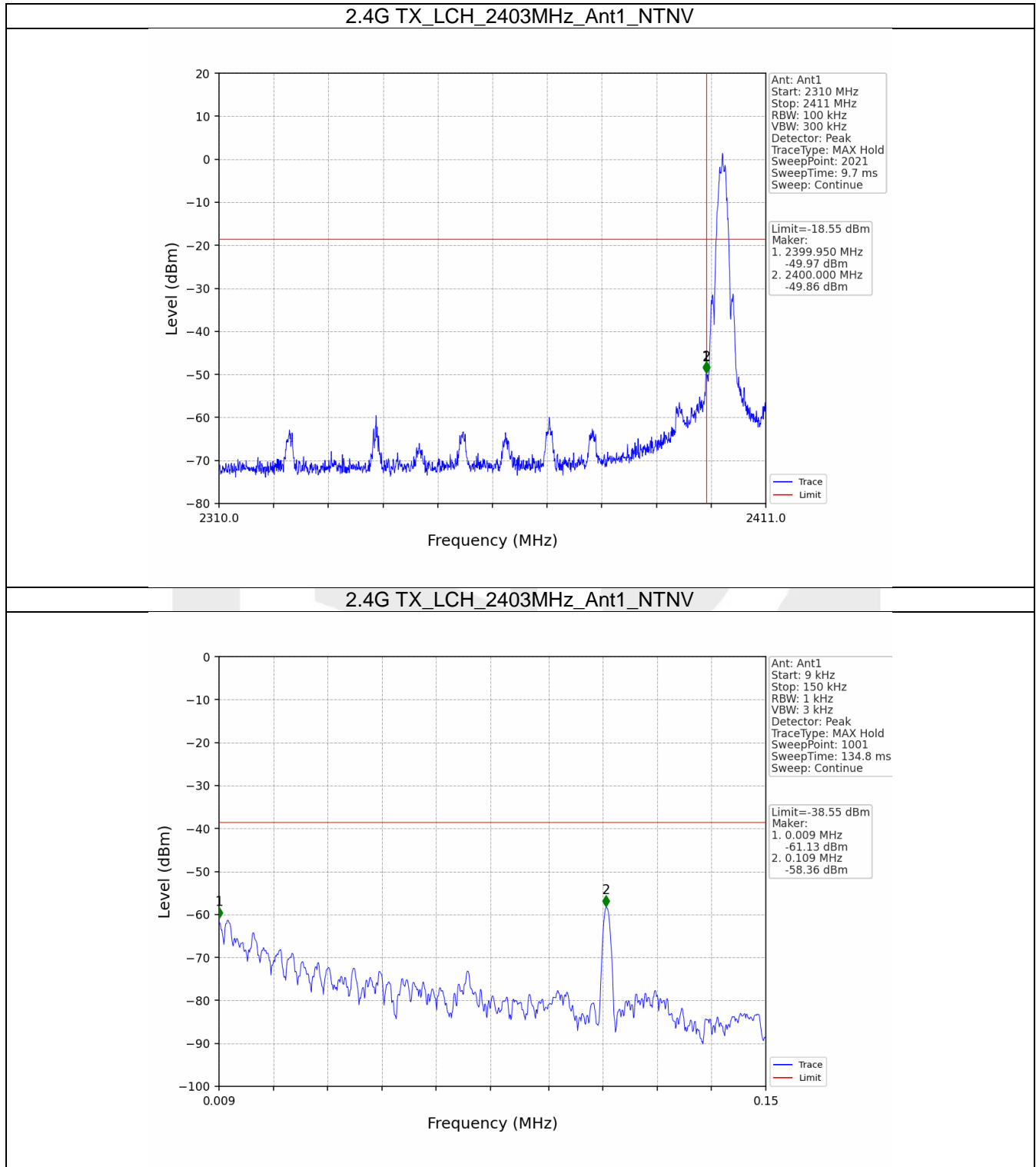
### 5.2.1 Ref

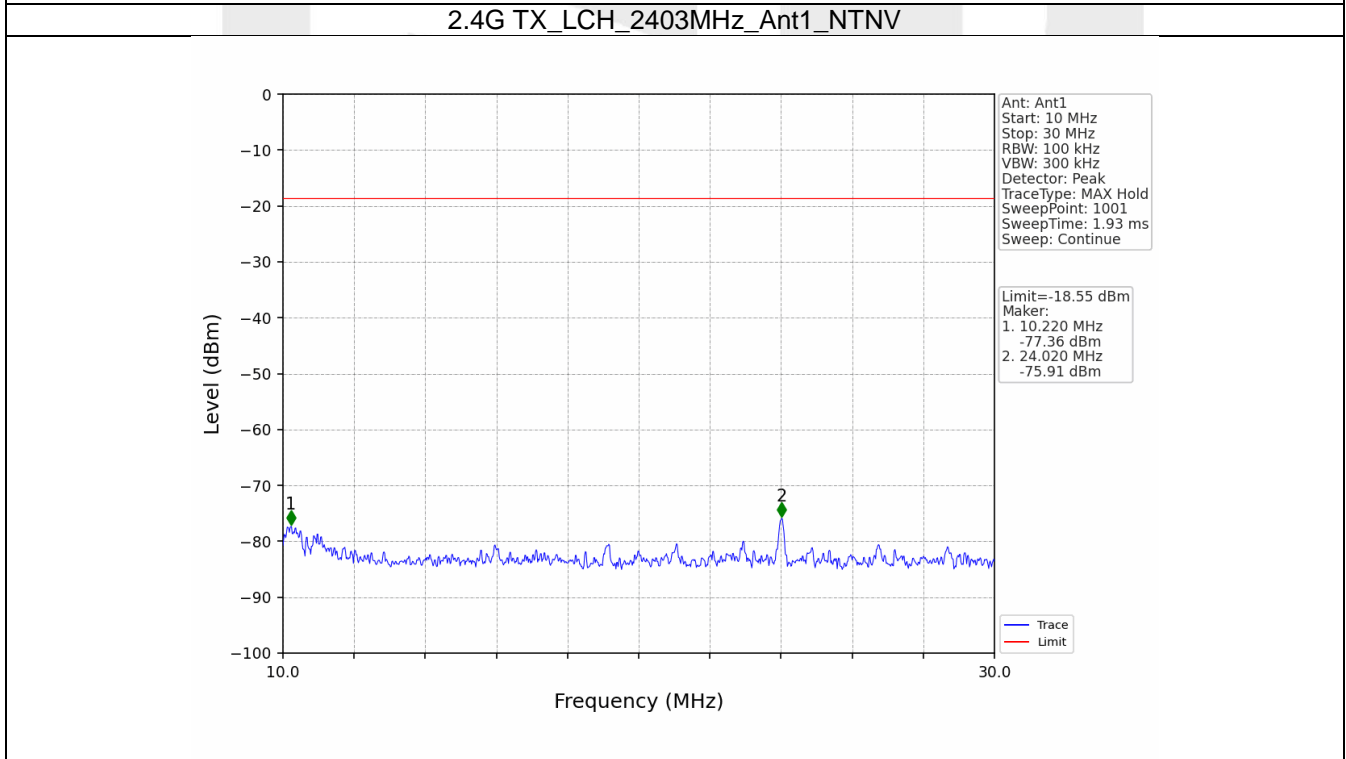
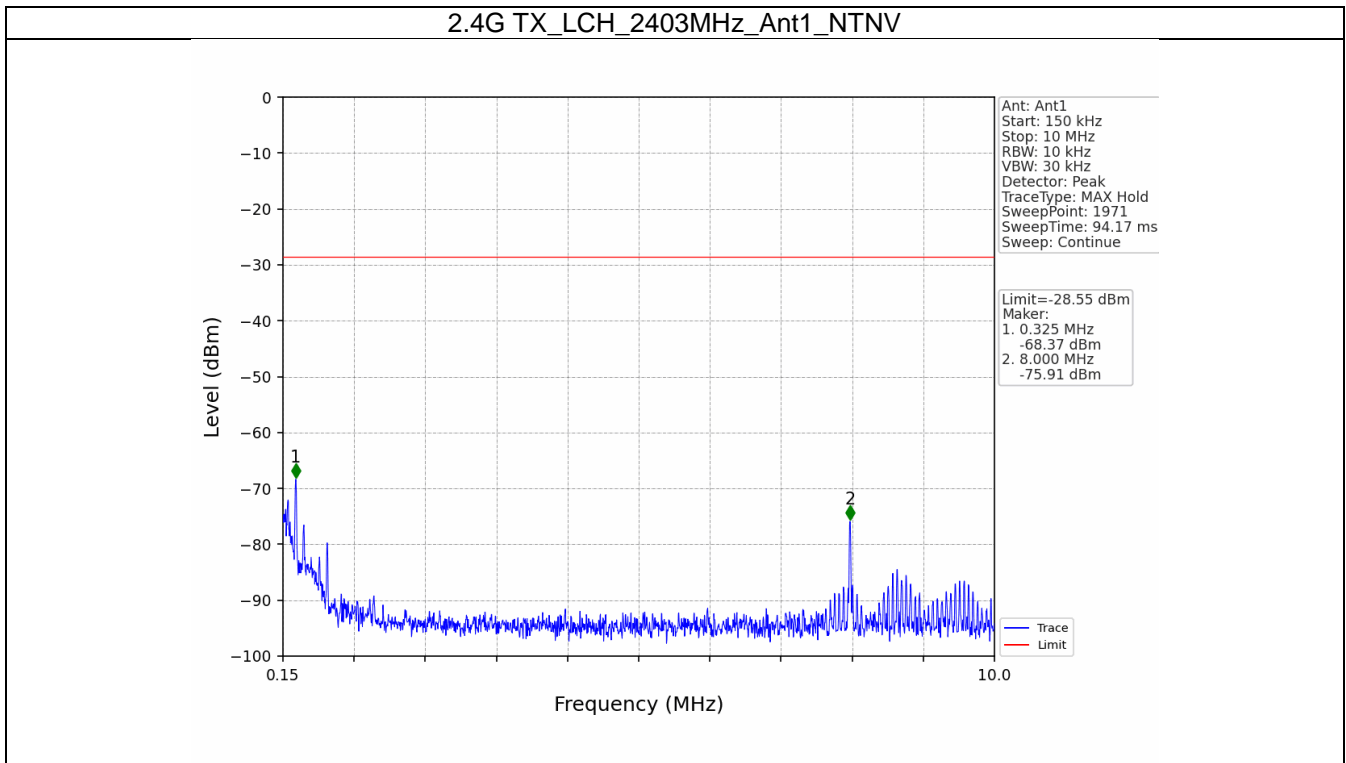


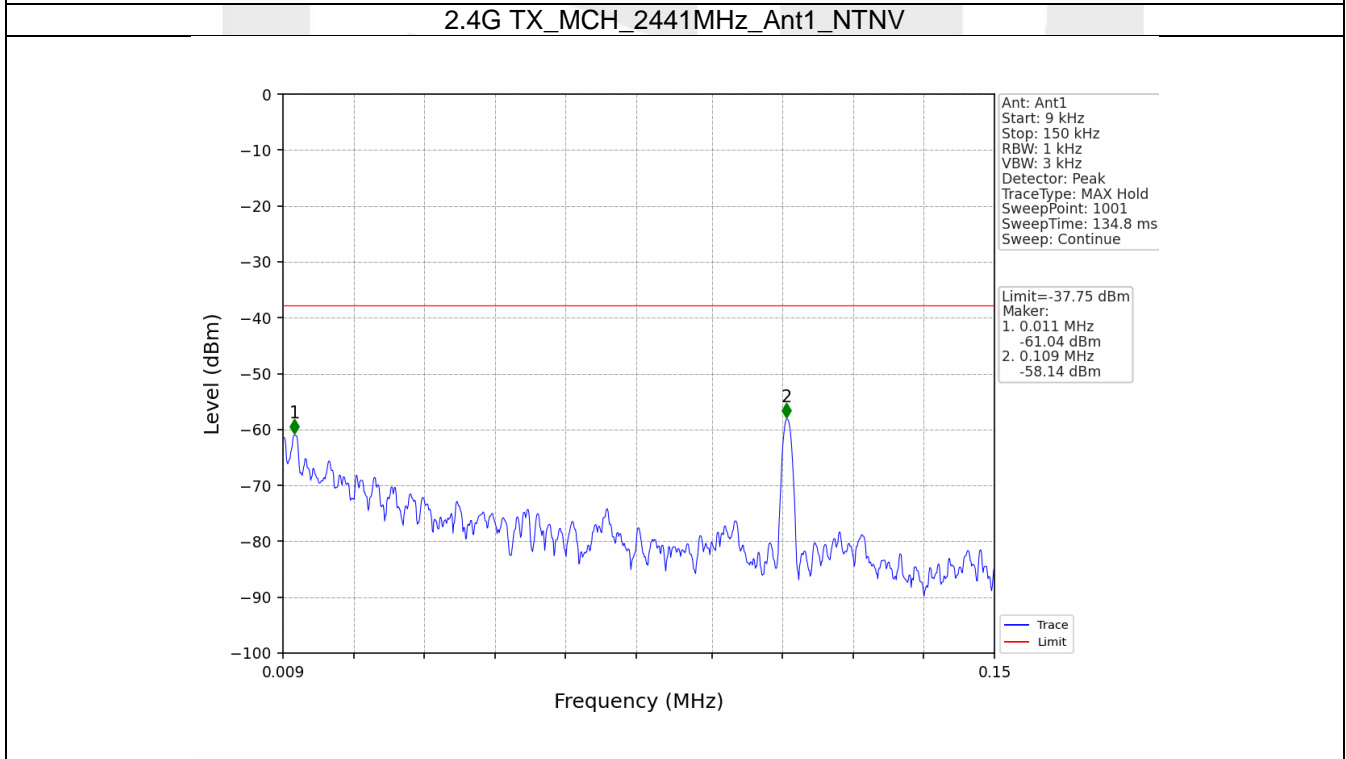
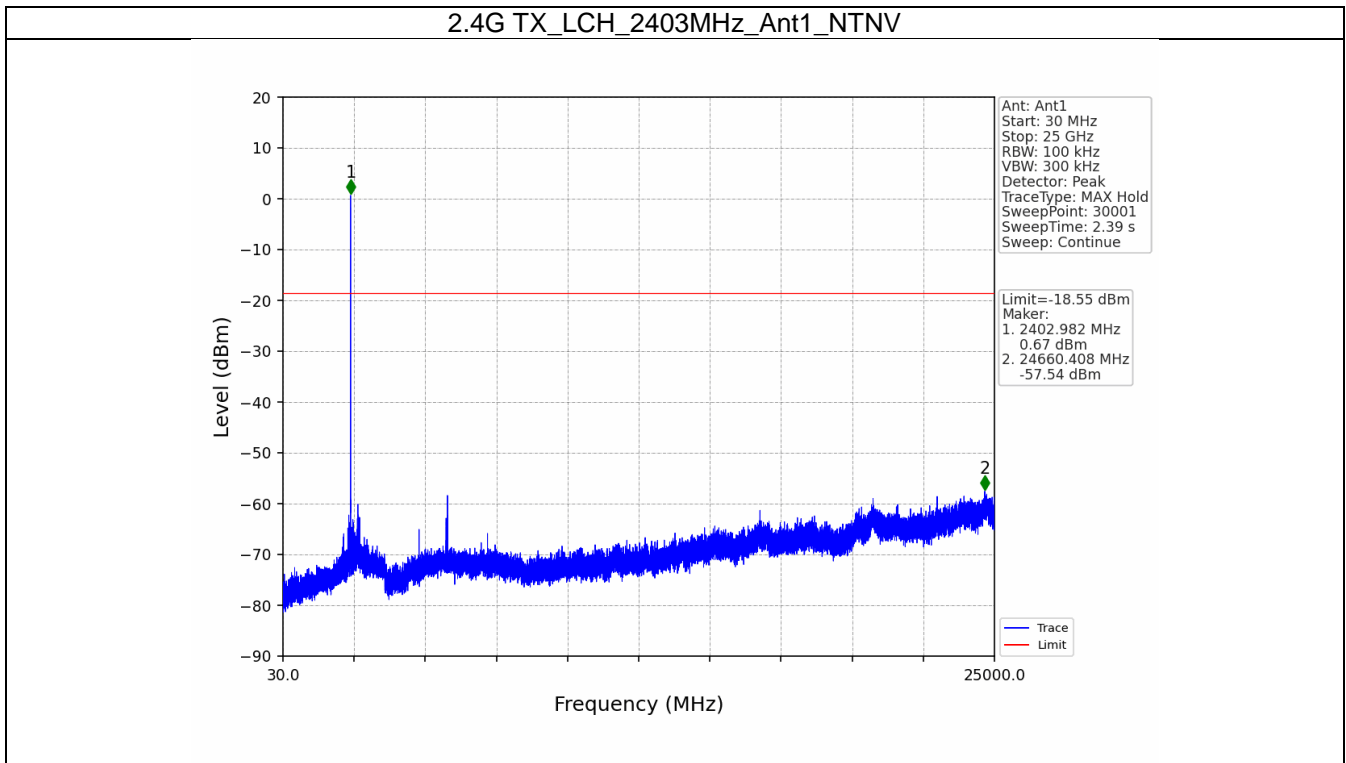


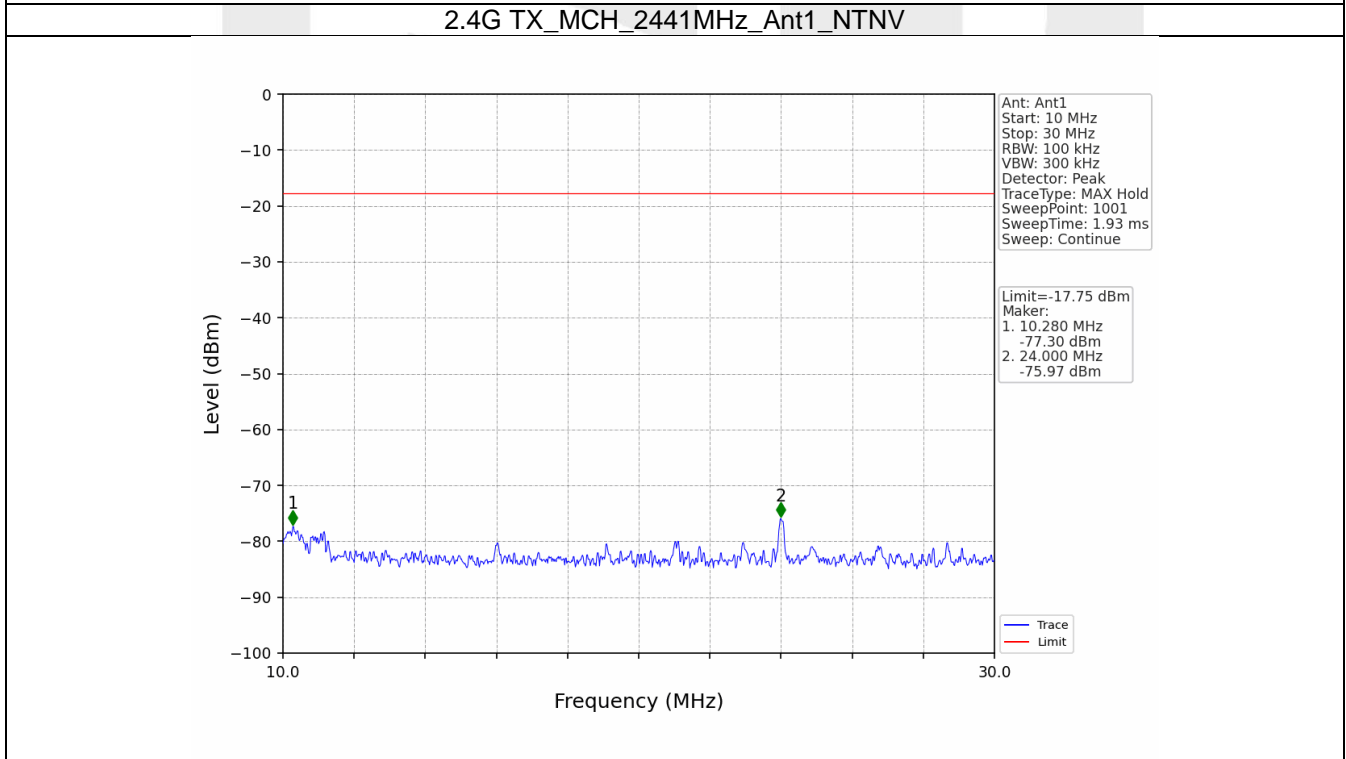
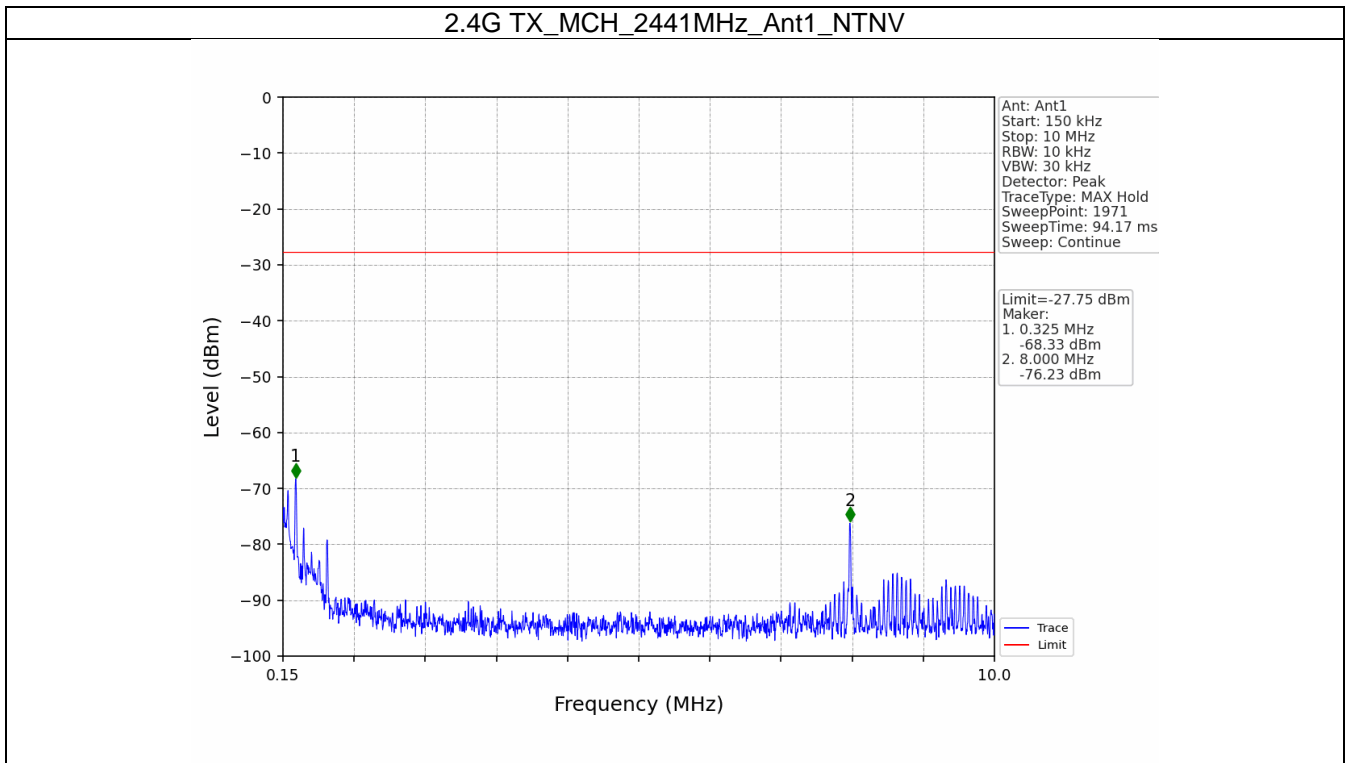


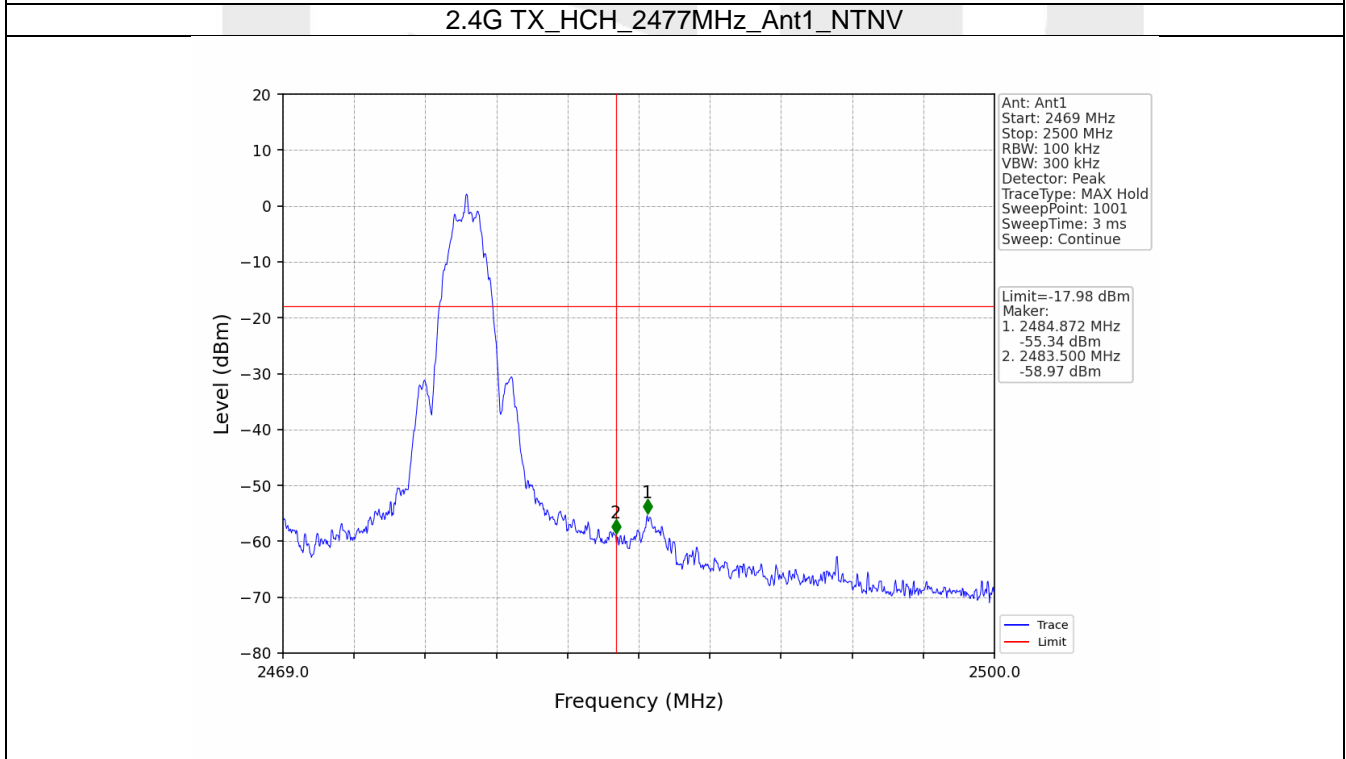
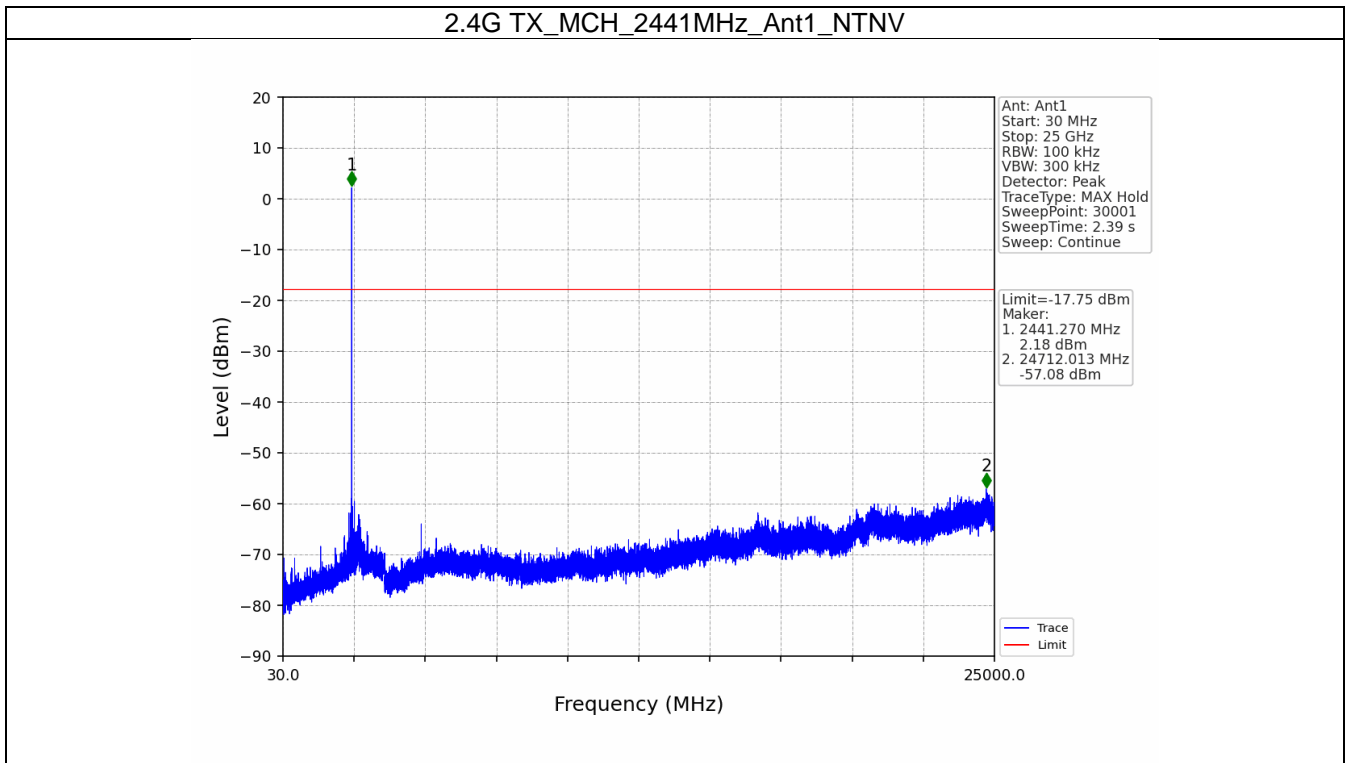
5.2.2 CSE

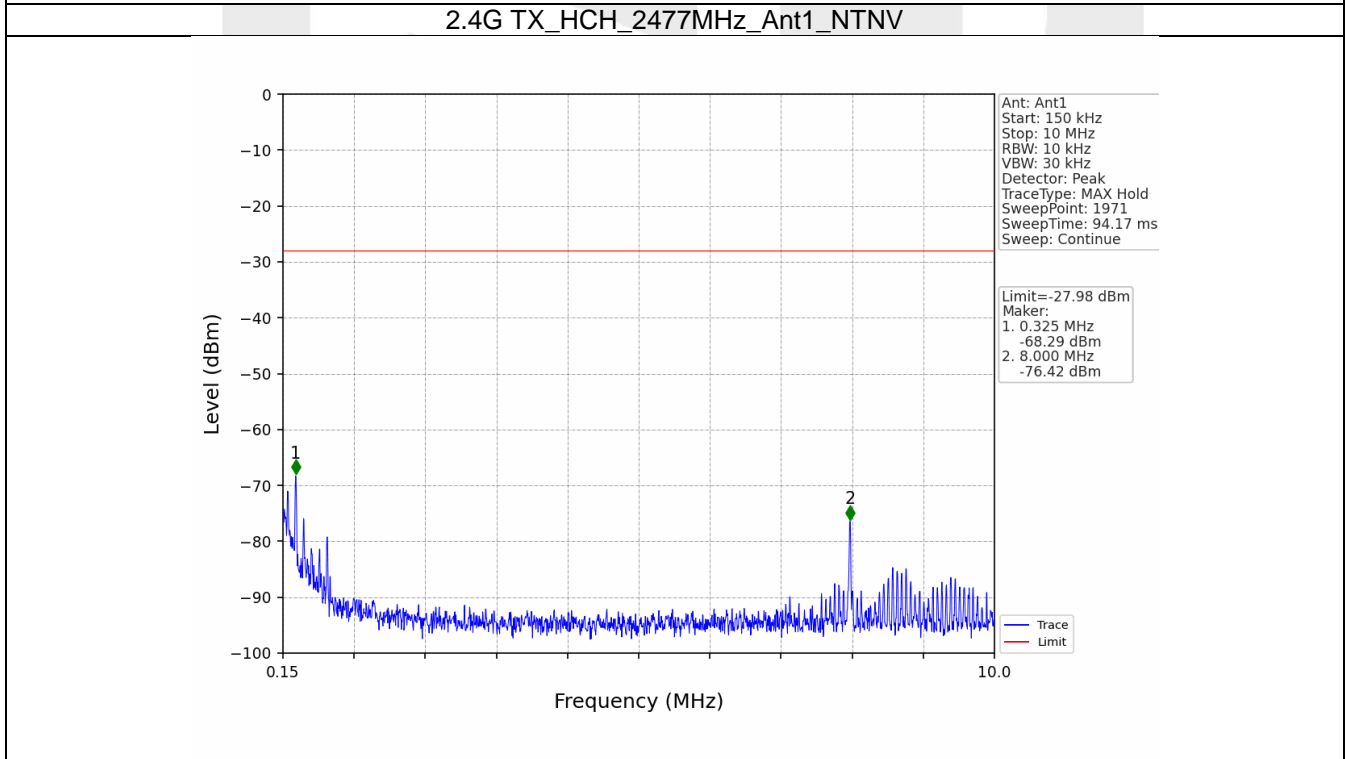
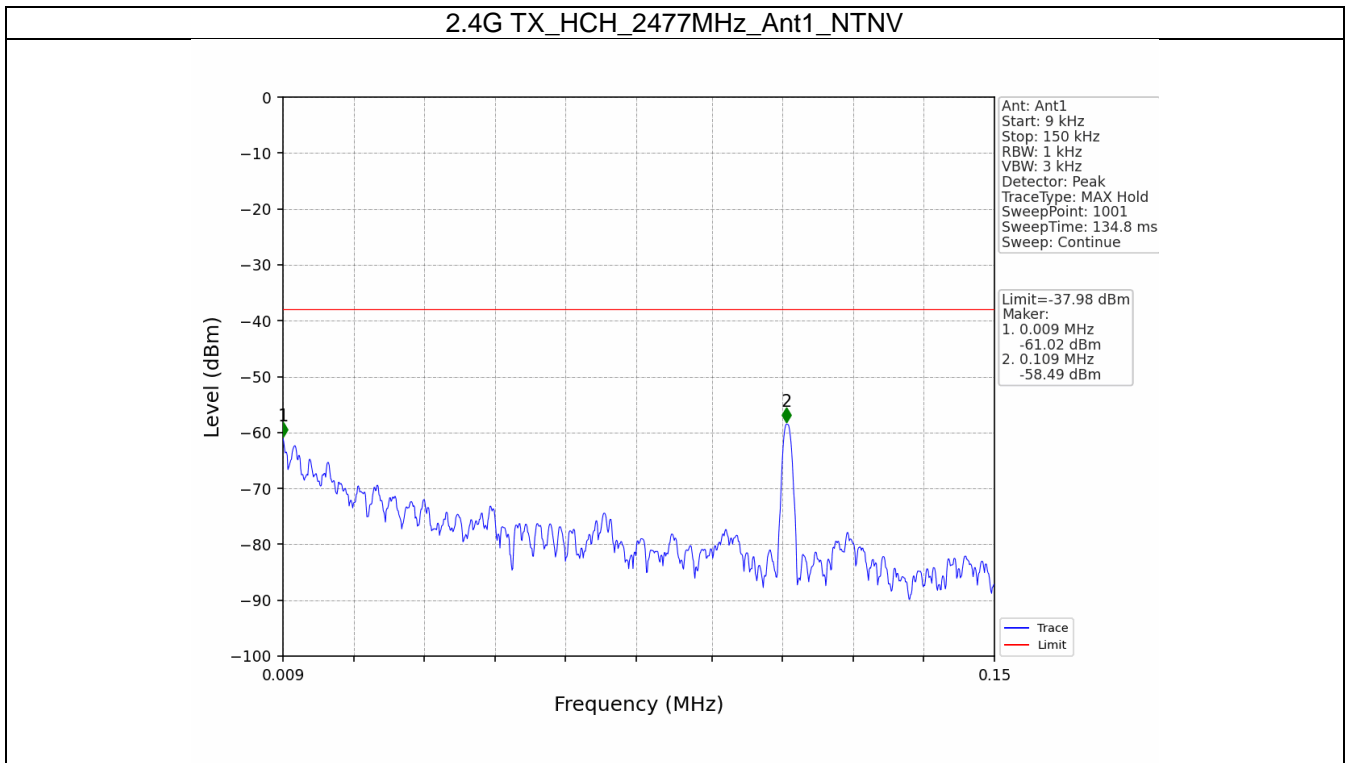


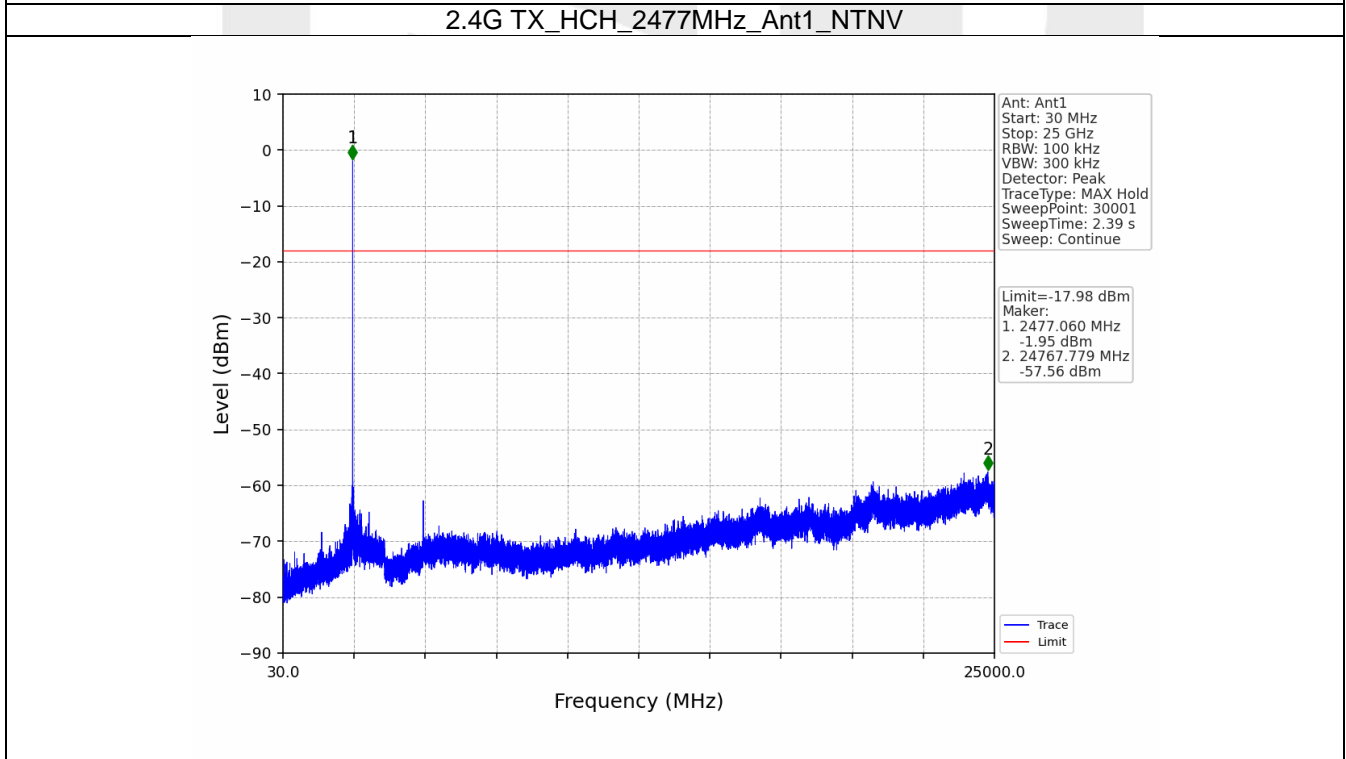
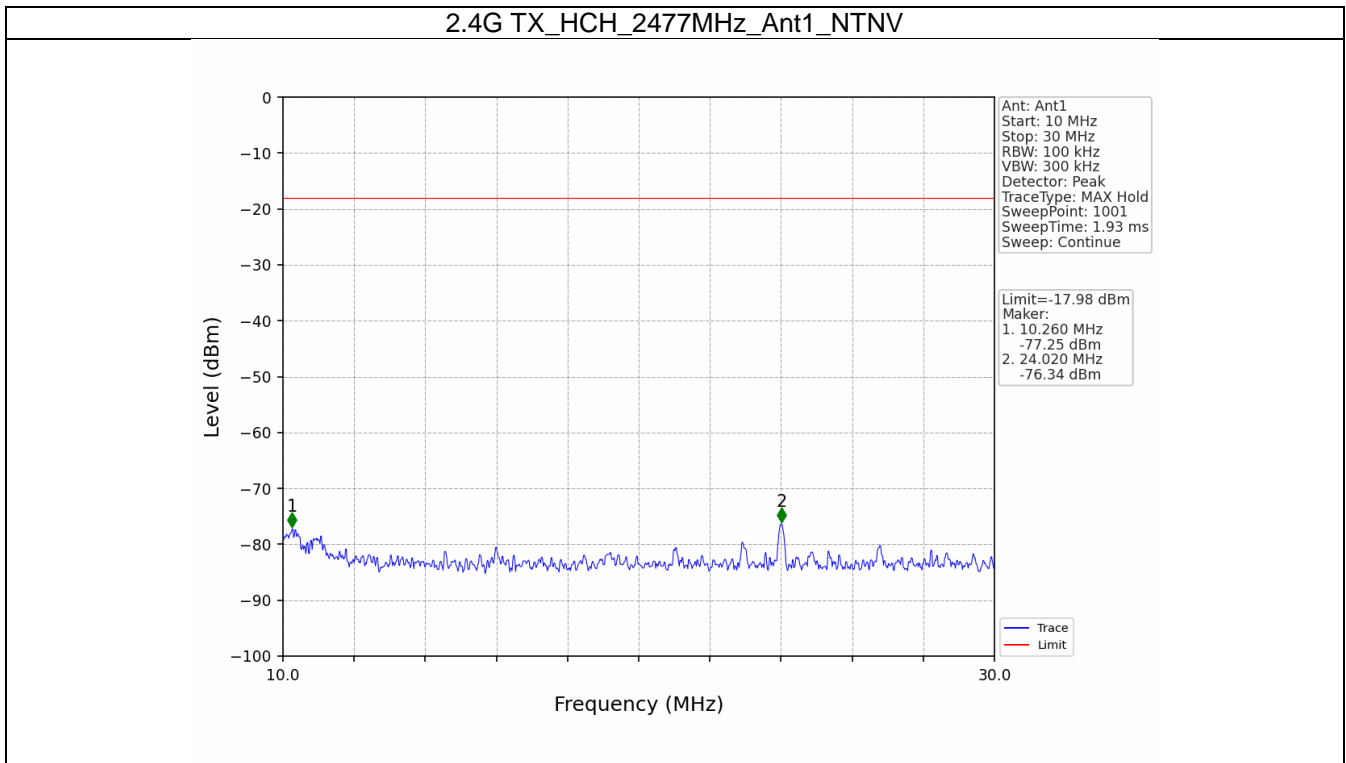












## 6. Unwanted Emissions In Restricted Frequency Bands

### 6.1 Test Result

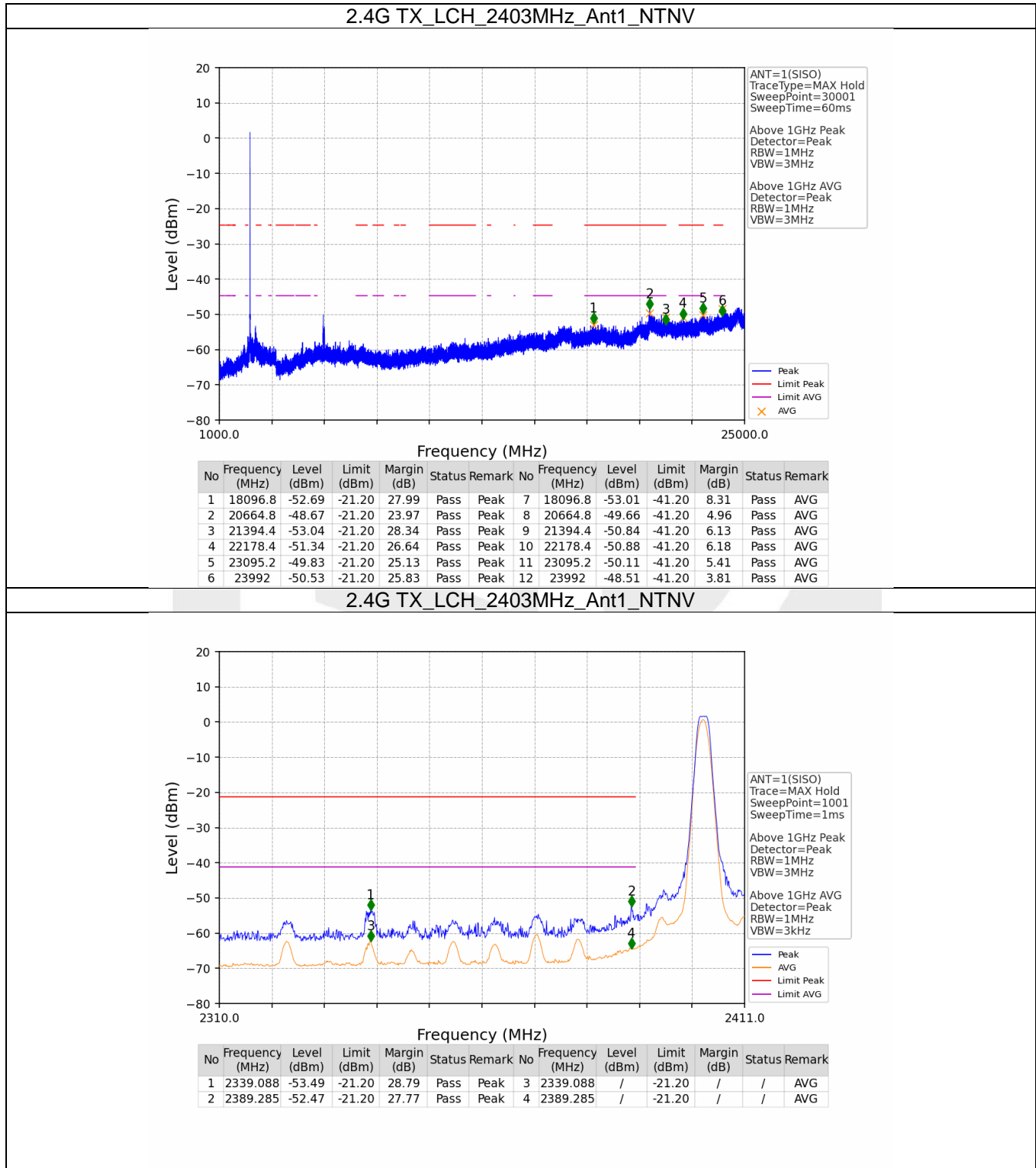
#### 6.1.1 RSE

Mode	TX Type	Frequency (MHz)	ANT	Level of Unwanted Emissions (dBm)		Verdict
				Result	Limit	
2.4G TX	SISO	2403	1	Refer To Test Graph		Pass
		2441	1	Refer To Test Graph		Pass
		2477	1	Refer To Test Graph		Pass

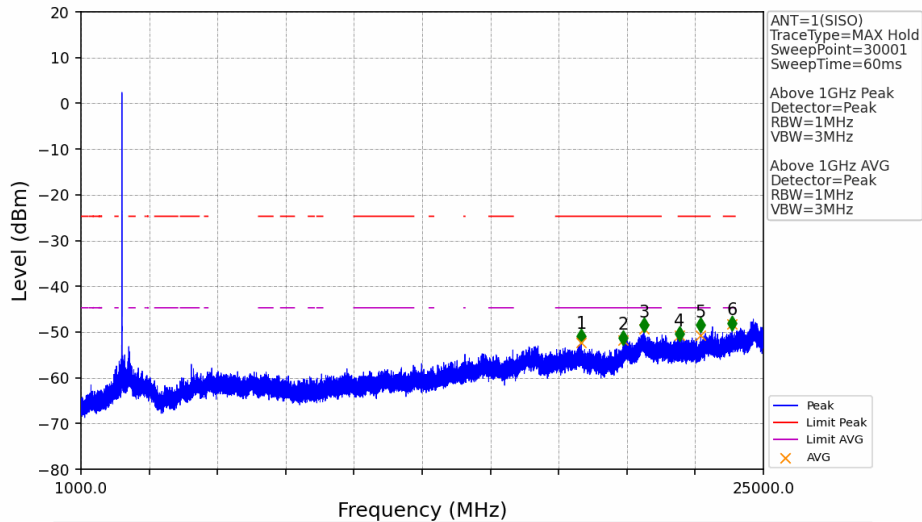


## 6.2 Test Graph

### 6.2.1 RSE

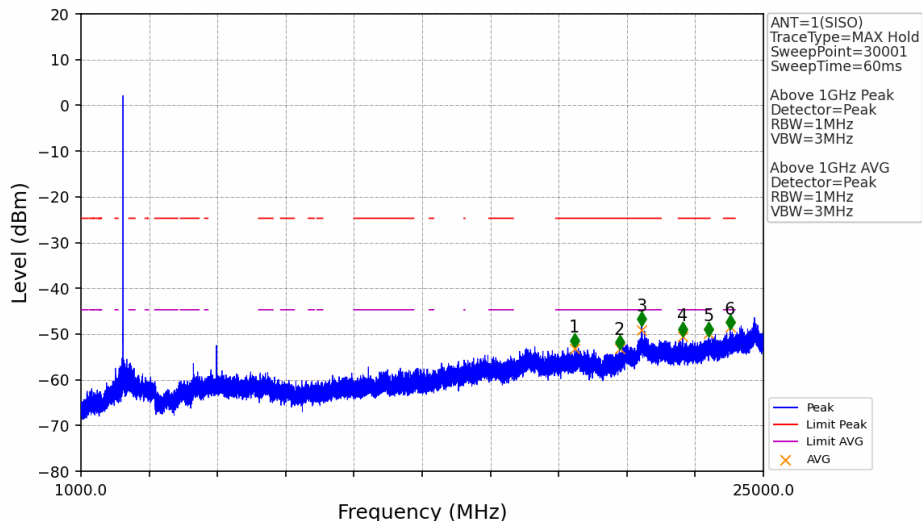


2.4G TX\_MCH\_2441MHz\_Ant1\_NTNV

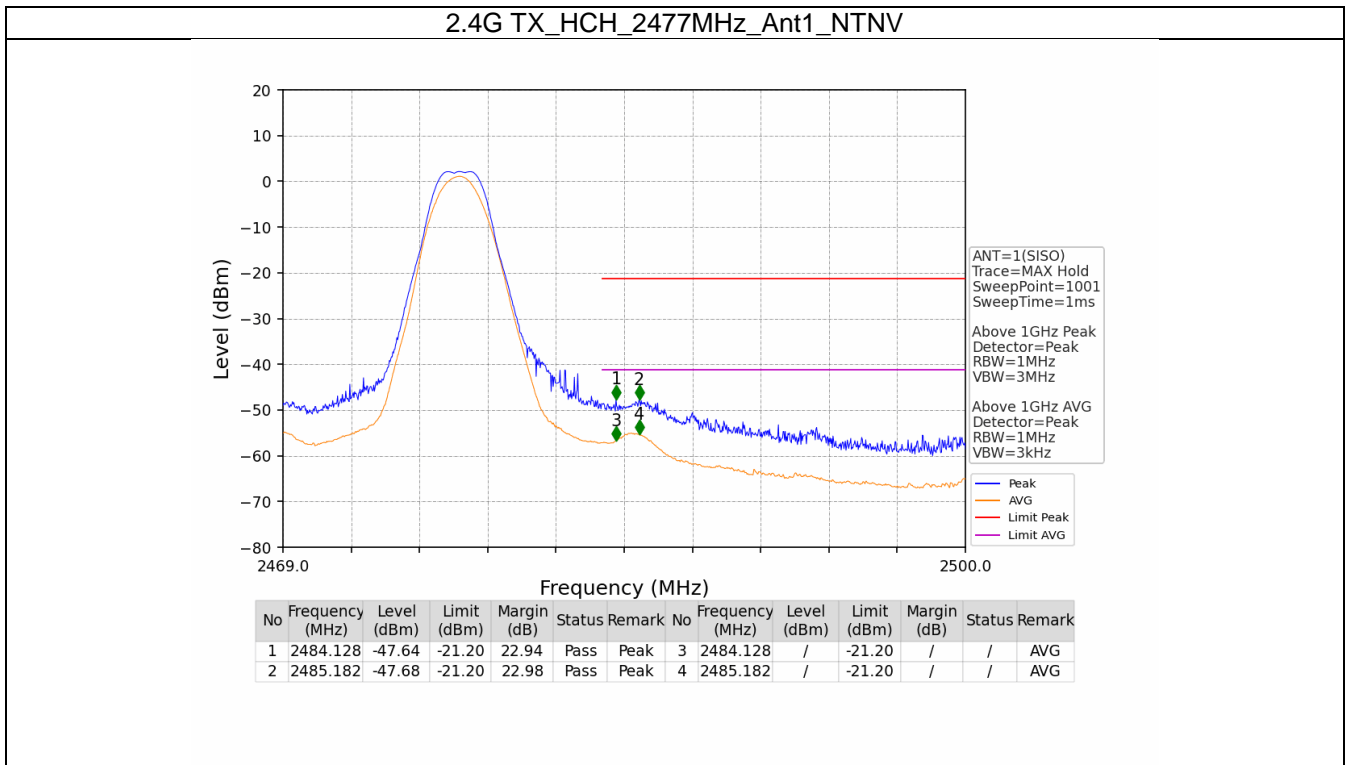


No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	18592	-52.50	-21.20	27.80	Pass	Peak	7	18592	-52.24	-41.20	7.54	Pass	AVG
2	20071.2	-52.77	-21.20	28.07	Pass	Peak	8	20071.2	-51.84	-41.20	7.14	Pass	AVG
3	20798.4	-49.99	-21.20	25.29	Pass	Peak	9	20798.4	-49.38	-41.20	4.68	Pass	AVG
4	22040	-51.92	-21.20	27.22	Pass	Peak	10	22040	-50.72	-41.20	6.02	Pass	AVG
5	22799.2	-50.01	-21.20	25.31	Pass	Peak	11	22799.2	-50.67	-41.20	5.97	Pass	AVG
6	23899.2	-49.60	-21.20	24.90	Pass	Peak	12	23899.2	-48.22	-41.20	3.52	Pass	AVG

2.4G TX\_HCH\_2477MHz\_Ant1\_NTNV



No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark	No	Frequency (MHz)	Level (dBm)	Limit (dBm)	Margin (dB)	Status	Remark
1	18352	-52.92	-21.20	28.22	Pass	Peak	7	18352	-53.16	-41.20	8.46	Pass	AVG
2	19936.8	-53.37	-21.20	28.67	Pass	Peak	8	19936.8	-53.14	-41.20	8.44	Pass	AVG
3	20716.8	-48.32	-21.20	23.62	Pass	Peak	9	20716.8	-49.05	-41.20	4.35	Pass	AVG
4	22160	-50.49	-21.20	25.79	Pass	Peak	10	22160	-50.61	-41.20	5.91	Pass	AVG
5	23084.8	-50.49	-21.20	25.79	Pass	Peak	11	23084.8	-49.82	-41.20	5.12	Pass	AVG
6	23828	-48.92	-21.20	24.22	Pass	Peak	12	23828	-48.43	-41.20	3.73	Pass	AVG



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