



TEST REPORT

Application No.: SZEM2010010288CR
Applicant: OnePlus Technology (Shenzhen) Co., Ltd.
Address of Applicant: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, China
Manufacturer: OnePlus Technology (Shenzhen) Co., Ltd.
Address of Manufacturer: 18C02, 18C03, 18C04 and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, China
Factory: Please refer to section 2
Address of Factory: Please refer to section 2
Equipment Under Test (EUT):
EUT Name: OnePlus Buds Z
Model No.: E502A
Trade mark: ONEPLUS
FCC ID: 2ABZ2-E502A
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2020-10-24
Date of Test: 2020-10-24 to 2020-12-23
Date of Issue: 2020-12-28

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu

Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2020-12-28		Original

Authorized for issue by:			
			
		Bill Chen/Project Engineer	
			
		Eric Fu/Reviewer	



2 Test Summary

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Peak Output Power	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2013) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(1)	Pass

Factory:	Address of Factory:
Shenzhen sunynn Technology Co., Ltd.	201, building C, Xinxing Industrial Park, no. 3151 Shahe West Road, Shuguang Community, Xili Street, Nanshan District, Shenzhen City
Jiangxi Risound Electronics Co., Ltd.	No.271, Innovation Avenue, Jinggangshan Economic and Technological Development Zone, Ji'an City, Jiangxi Province.
Hunan sunynn Technology Co., Ltd.	Building 3&4, Intelligent Home Appliance Industrial park, North Xieyuan Road, Ningxiang Economic and Technological Development Zone, Changsha City
Shenzhen Sunwinon Electronics Co., Ltd.	Floor 1-6 of 4# Building 101, No. 6-6, Yanshan avenue, Yanchuan community, Yanluo street, Bao'an district, Shenzhen 518108, P.R. China.

Remark:

Model No.: E502A

According to the declaration from the applicant, the model in this report and model in original report were identical, with only difference on secondary supply battery and reduce RF output power.

Therefore in this report Conducted Peak Output Power was fully retested on model E502A and shown the data in this report, other test data in this report were based on previous report with report SZEM200800775202.



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4 General Information

4.1 Details of E.U.T.

Battery:	Charging BOX: Rechargeable battery DC 3.8V 450mAh (Charged by Type-C) Left earphone: Rechargeable battery DC 3.8V 40mAh (Charged by Charging BOX) Right earphone: Rechargeable battery DC 3.8V 40mAh (Charged by Charging BOX)
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.0 Dual Mode
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum (FHSS)
Modulation Type:	GFSK, Pi/4DQPSK, 8DPSK
Channel Spacing:	1MHz
Number of Channels:	79
Antenna Type:	Ceramic Antenna
Antenna Gain:	0.5dBi
Hardware Version:	EF178_0
Software version:	V8.0.6.0
Test software & version:	BQB & 20200306
S/N:	E502ASOW112002170001
FVIN version:	V8.0.6.0

Operation Frequency each of channel

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

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Selected Test Channel	
Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (C39)	2441MHz
The highest channel (CH78)	2480MHz



4.2 Cable

Cable	Length	Shielding	Core
Type-C cable	20cm	Unshielded	Non-Core

4.3 Description of Support Units

Description	Manufacturer	Model No.
Test board	SGS provides	N/A
USB cable	SGS provides	N/A

4.4 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Peak Output Power	$\pm 0.75\text{dB}$

Remark:
The U_{lab} (lab Uncertainty) is less than U_{CISPR} (CISPR Uncertainty), so the test results
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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4.5 Test Location

All tests were performed at:

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No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.6 Test Facility

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

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

- **VCCI**

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

- **FCC –Designation Number: CN1178**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

- **Innovation, Science and Economic Development Canada**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.7 Deviation from Standards

None

4.8 Abnormalities from Standard Conditions

None

5 Equipment List

RF Conducted					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Shielding Room	SAEMC	MSR733	SEM001-09	2019-06-13	2022-06-12
DC Power Supply	Rohde & Schwarz	NGSM 32/10	SEM011-04	2020-03-24	2021-03-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-17	2020-05-21	2021-05-20
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2020-09-23	2021-09-22
Measurement Software	TST	TST PASS V1.0.5	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2020-07-10	2021-07-09
Attenuator	Huber+Suhner	6620_SMA-50- 1	SEM021-09	2020-05-21	2021-05-20

General used equipment					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-03	2020-09-25	2021-09-24
Humidity/ Temperature Indicator	Shanghai Meteorological Industry Factory	ZJ1-2B	SEM002-04	2020-09-25	2021-09-24
Humidity/ Temperature Indicator	Mingle	N/A	SEM002-08	2020-09-25	2021-09-24
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2020-04-07	2021-04-06

6 Radio Spectrum Matter Test Results

6.1 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247

Test Method: ANSI C63.10 (2013) Section 7.8.5

Limit: ≤ 20.97

6.1.1 E.U.T. Operation

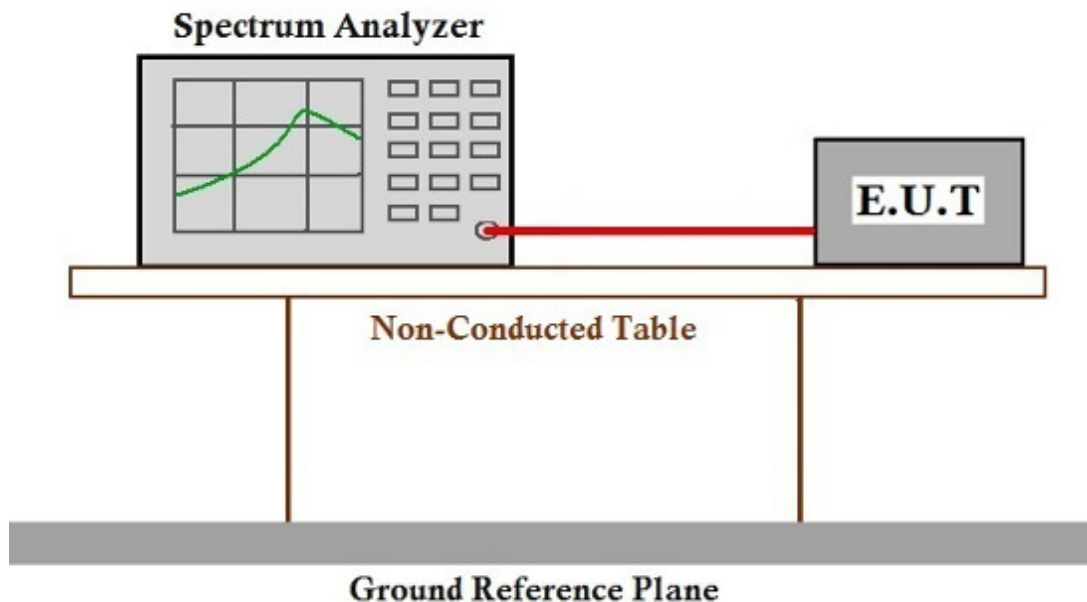
Operating Environment:

Temperature: 23.5 °C Humidity: 52.3 % RH Atmospheric Pressure: 1000 mbar

6.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

6.1.3 Test Setup Diagram



6.1.4 Measurement Procedure and Data

Please Refer To Appendix 15.247 For Details

7 Test Setup Photo

Please refer to setup photos.

8 EUT Constructional Details (EUT Photos)

Please refer to external and internal photos for details.



9 Appendix

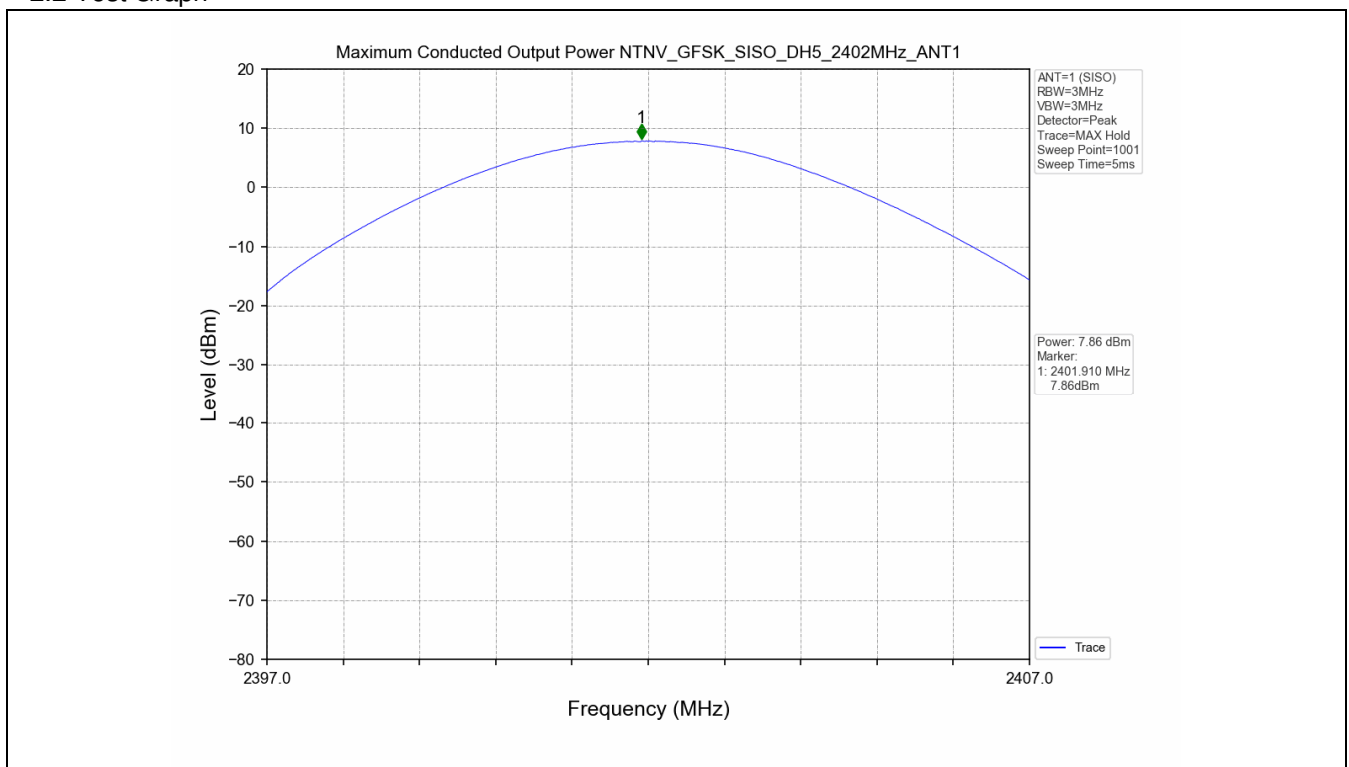
9.1 Appendix 15.247 for Right

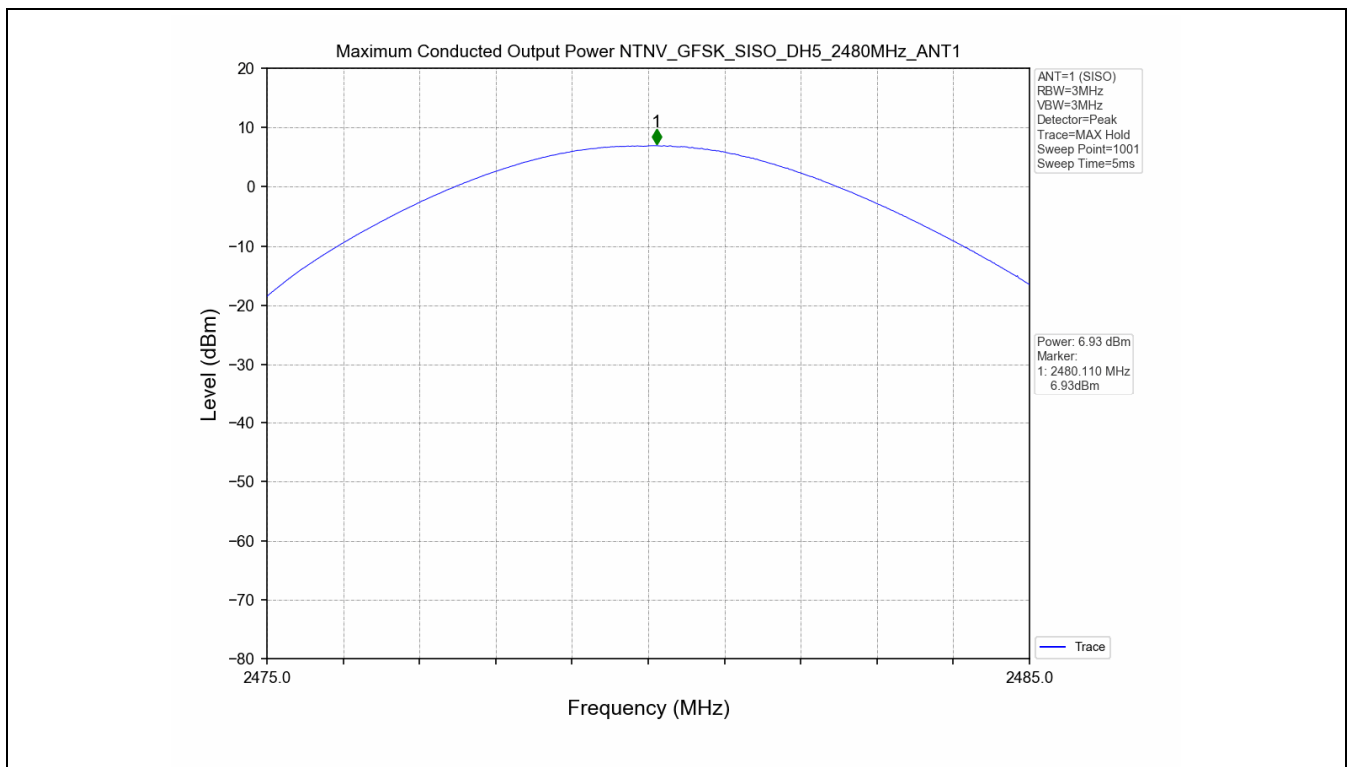
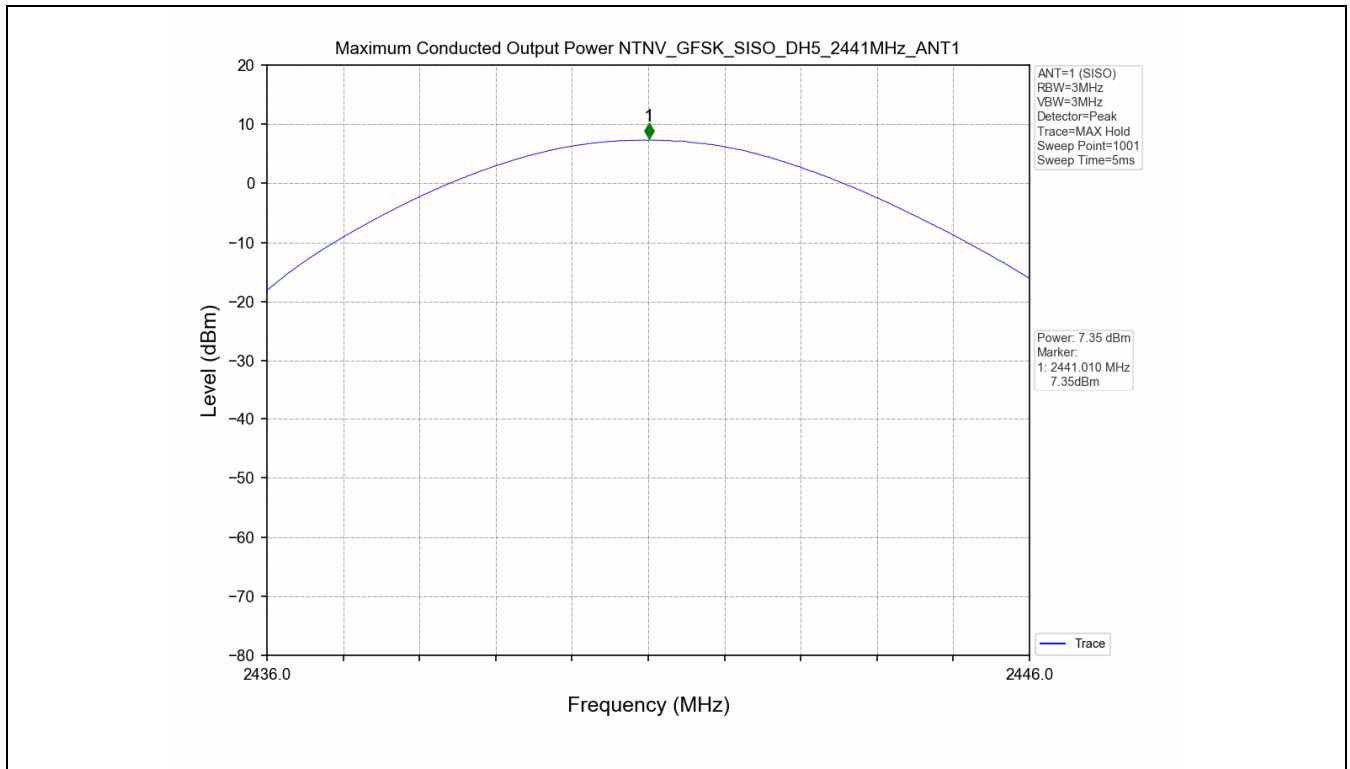
2. Maximum Conducted Output Power

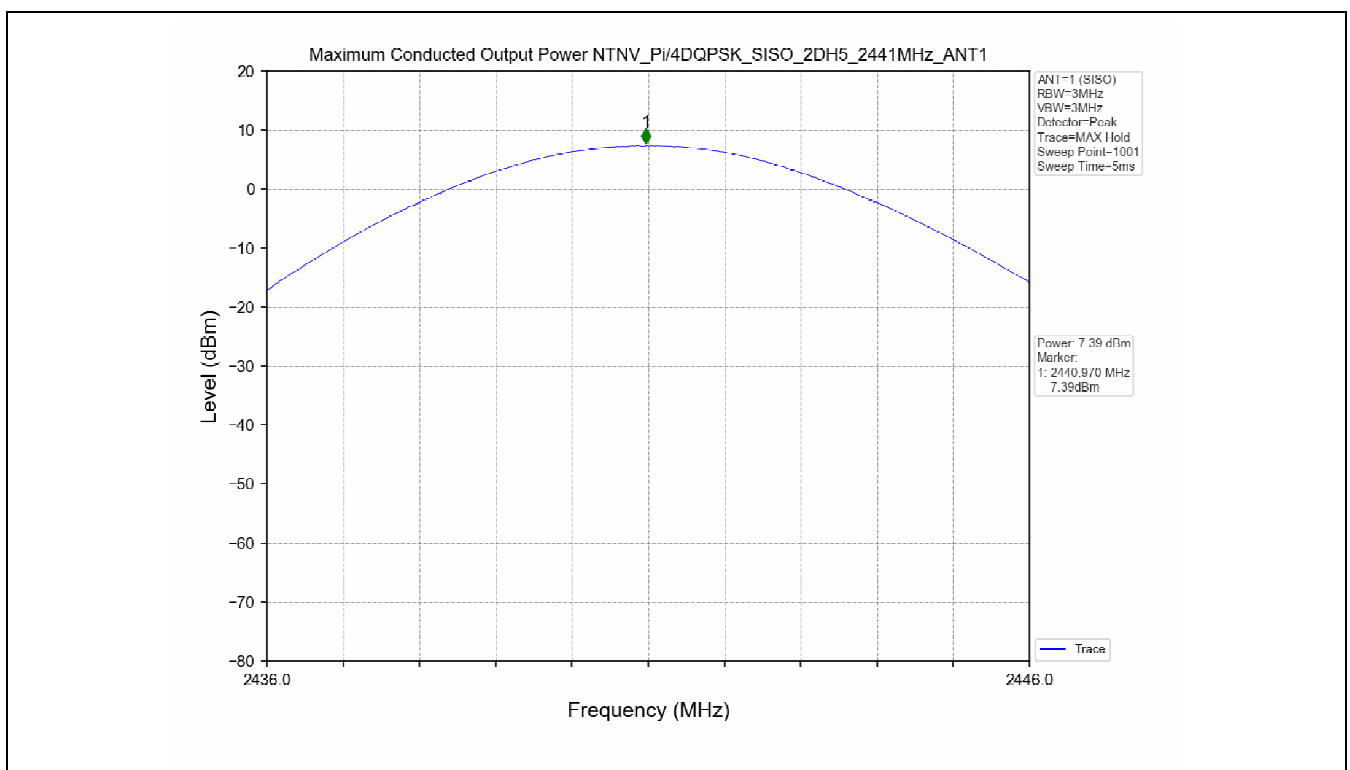
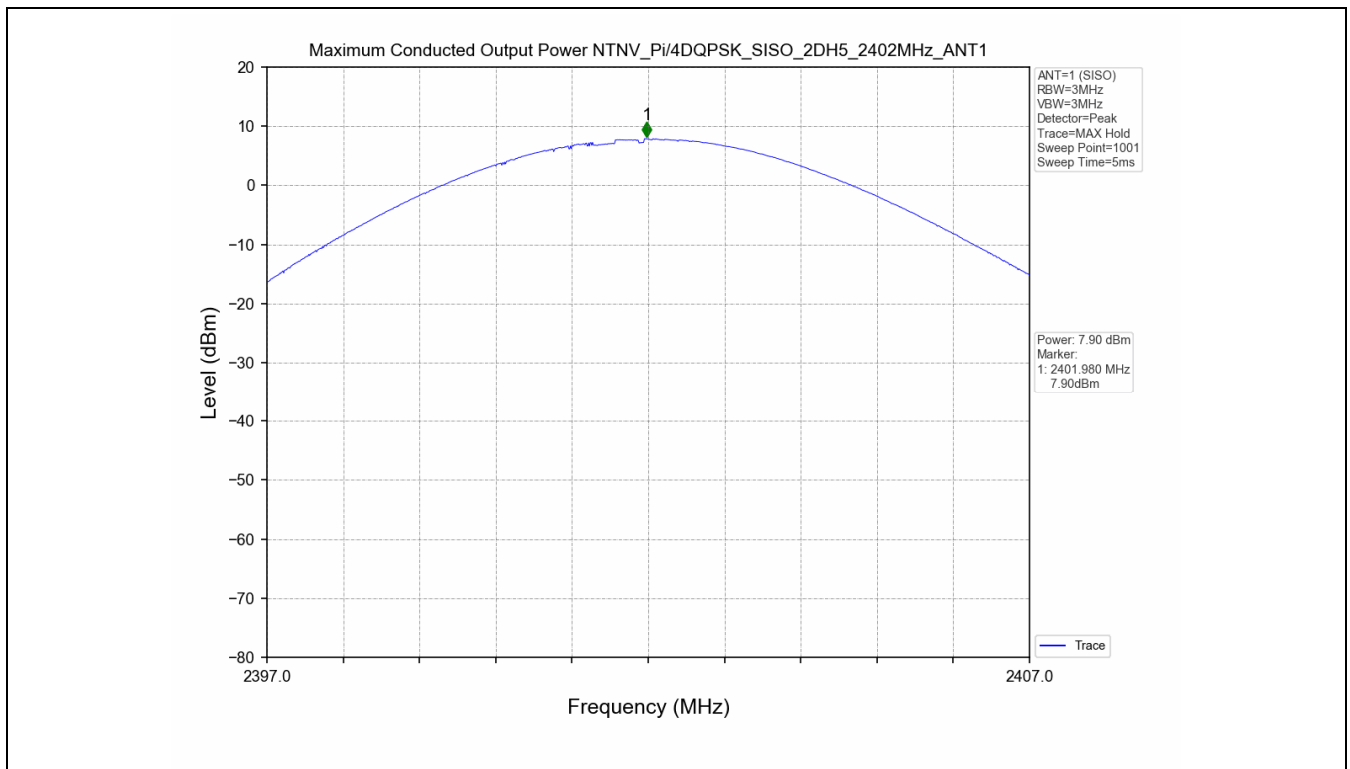
2.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	7.86	20.97	PASS
	2441	SISO	7.35	20.97	PASS
	2480	SISO	6.93	20.97	PASS
Pi/4DQPSK	2402	SISO	7.90	20.97	PASS
	2441	SISO	7.39	20.97	PASS
	2480	SISO	7.02	20.97	PASS
8DPSK	2402	SISO	7.90	20.97	PASS
	2441	SISO	7.27	20.97	PASS
	2480	SISO	7.04	20.97	PASS

2.2 Test Graph





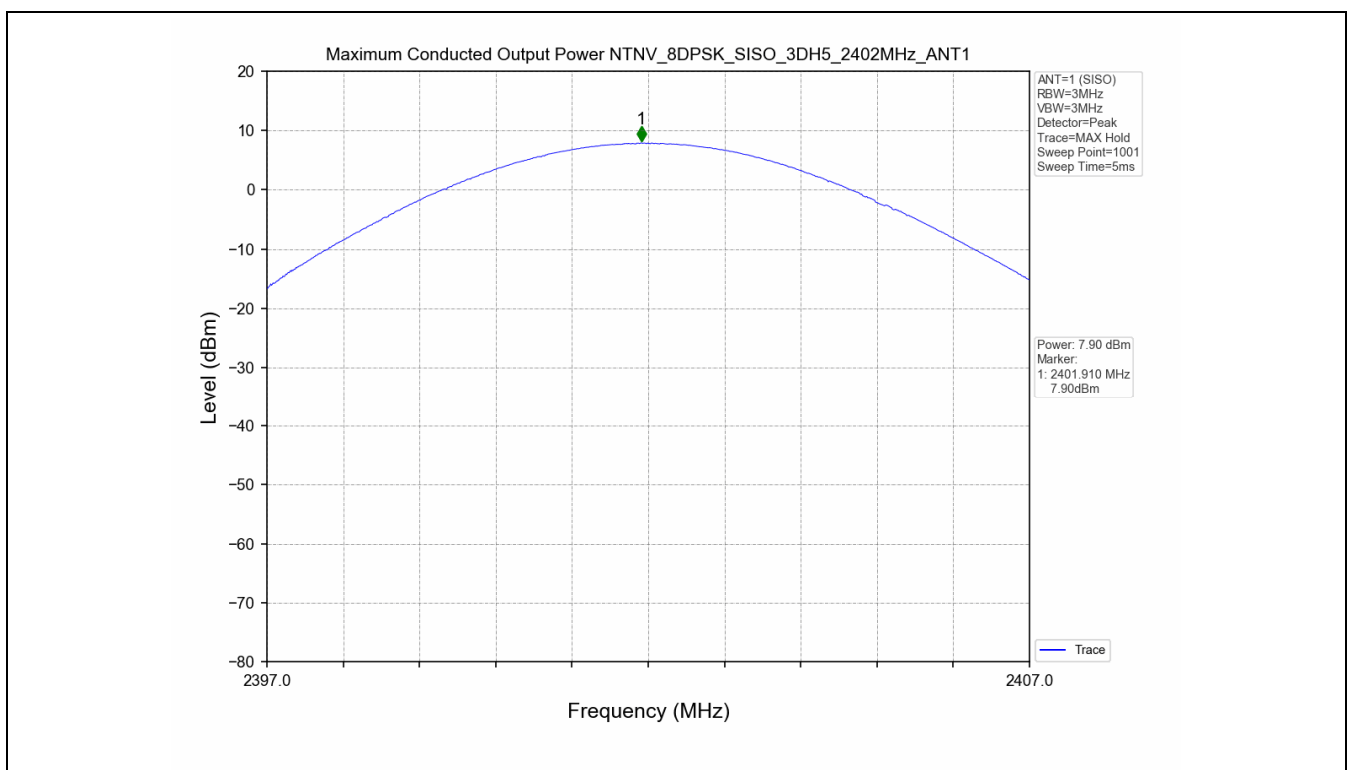
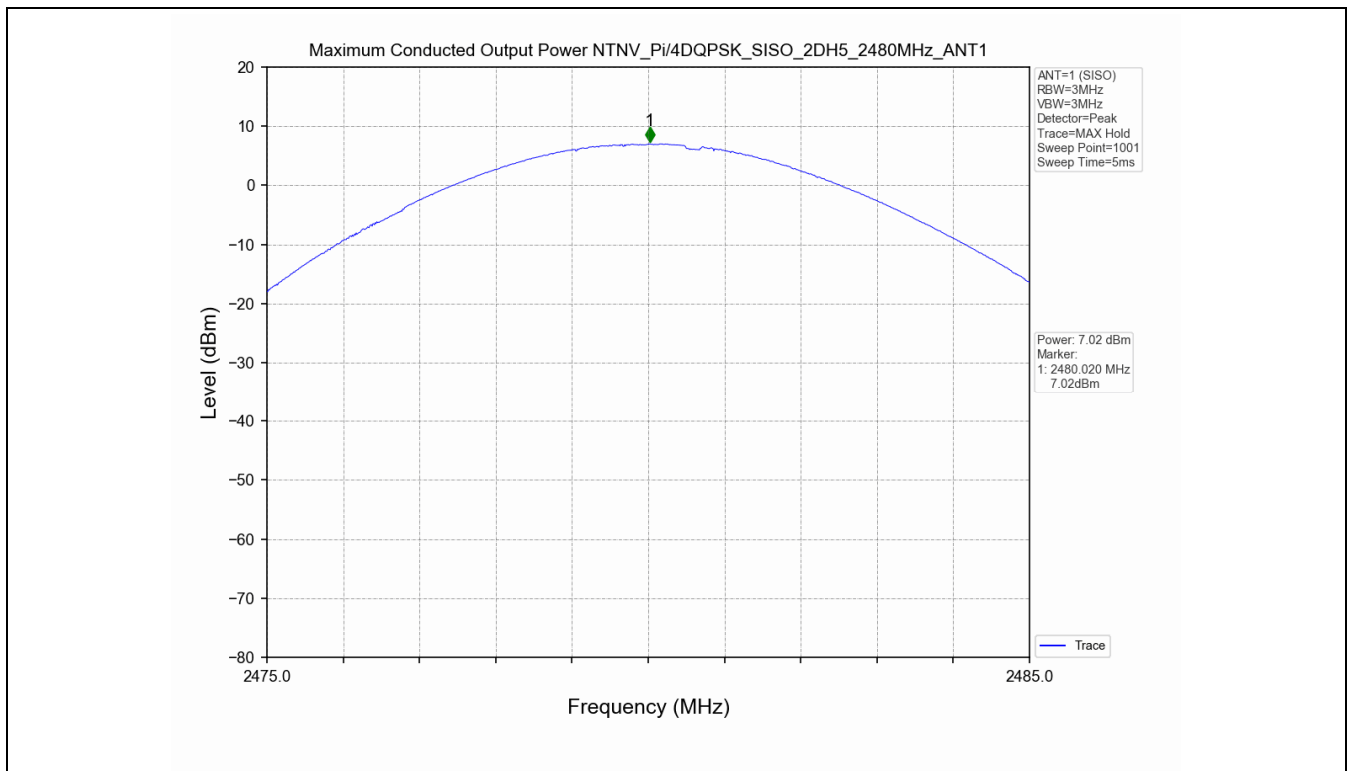


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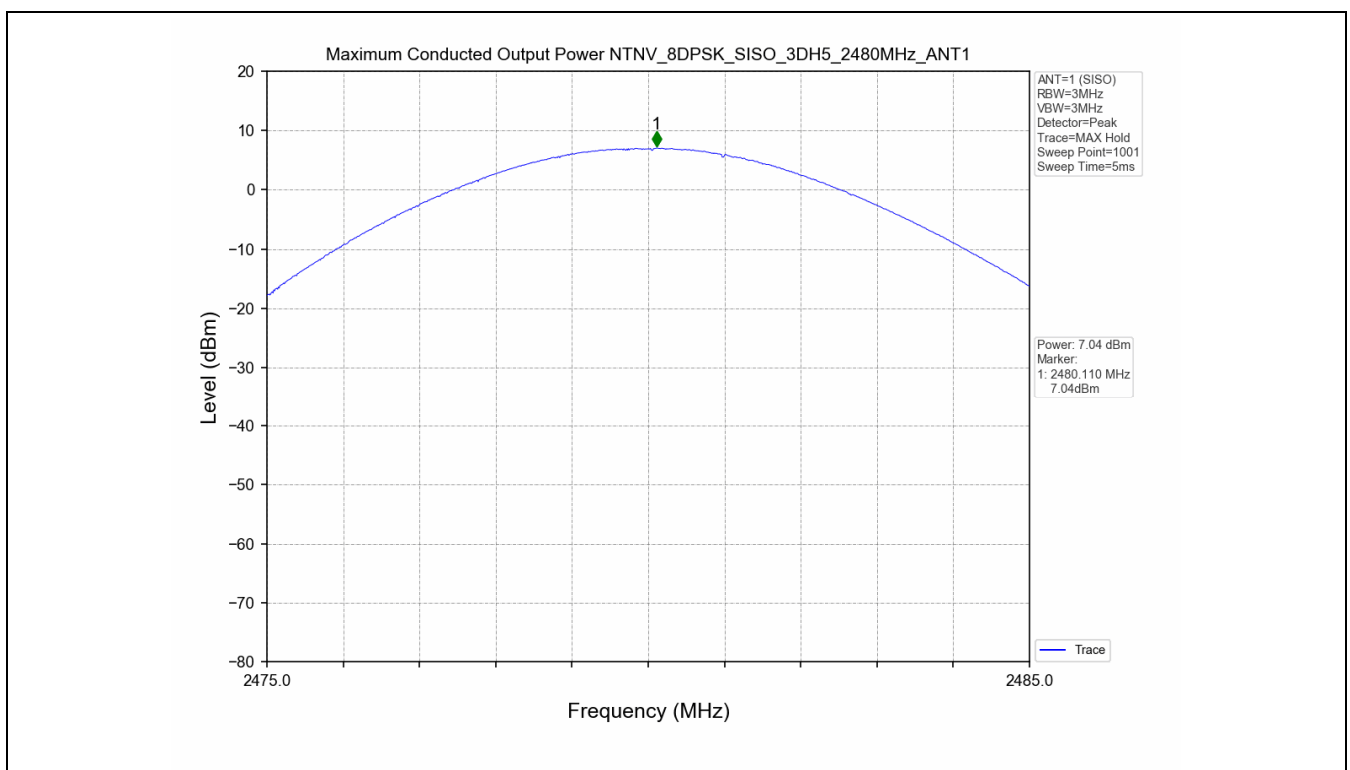
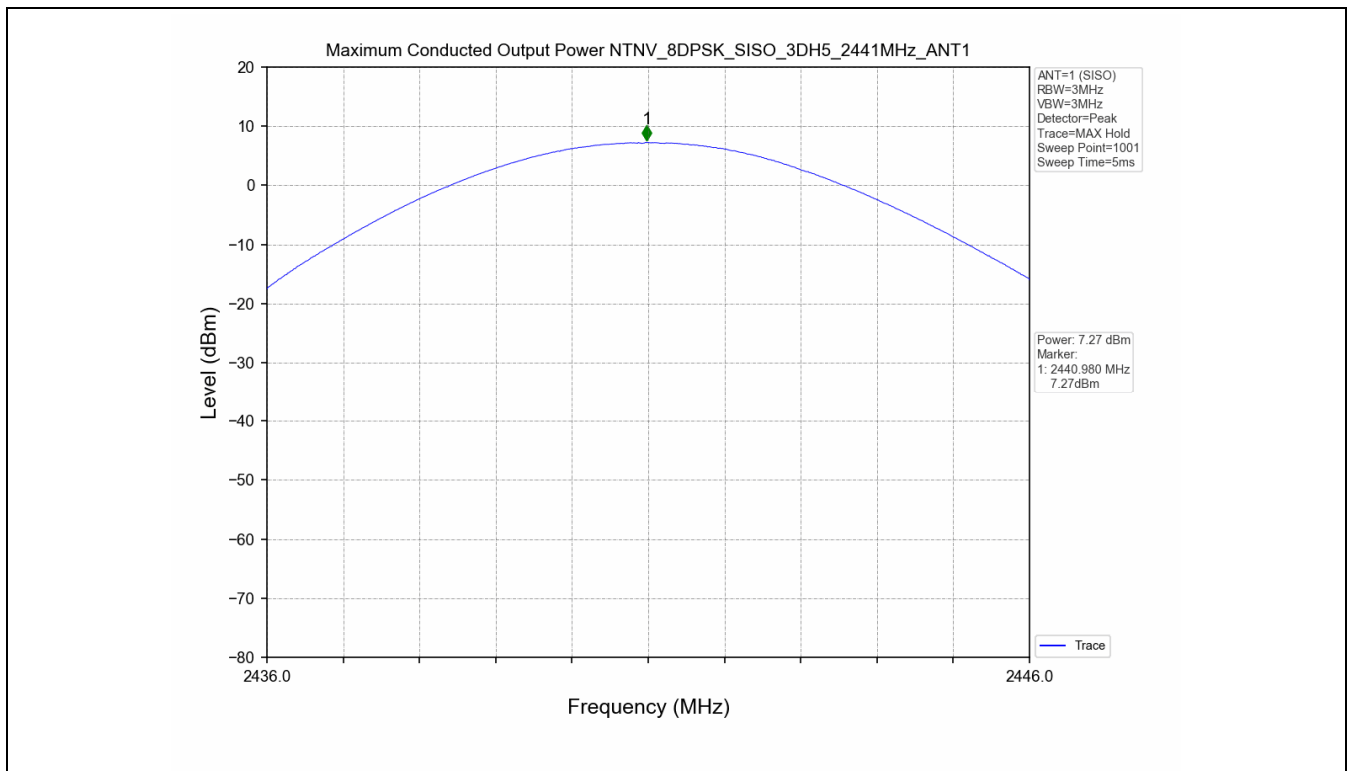


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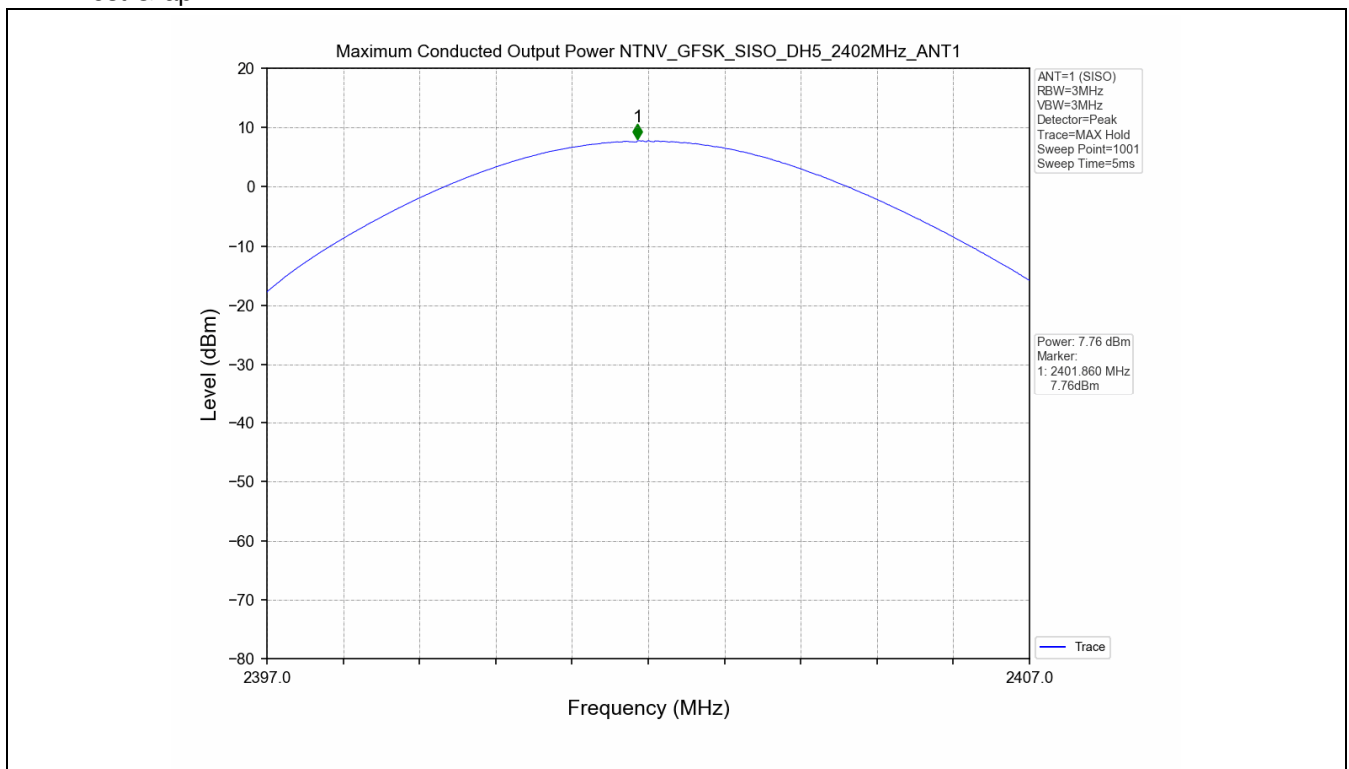
9.2 Appendix 15.247 for Left

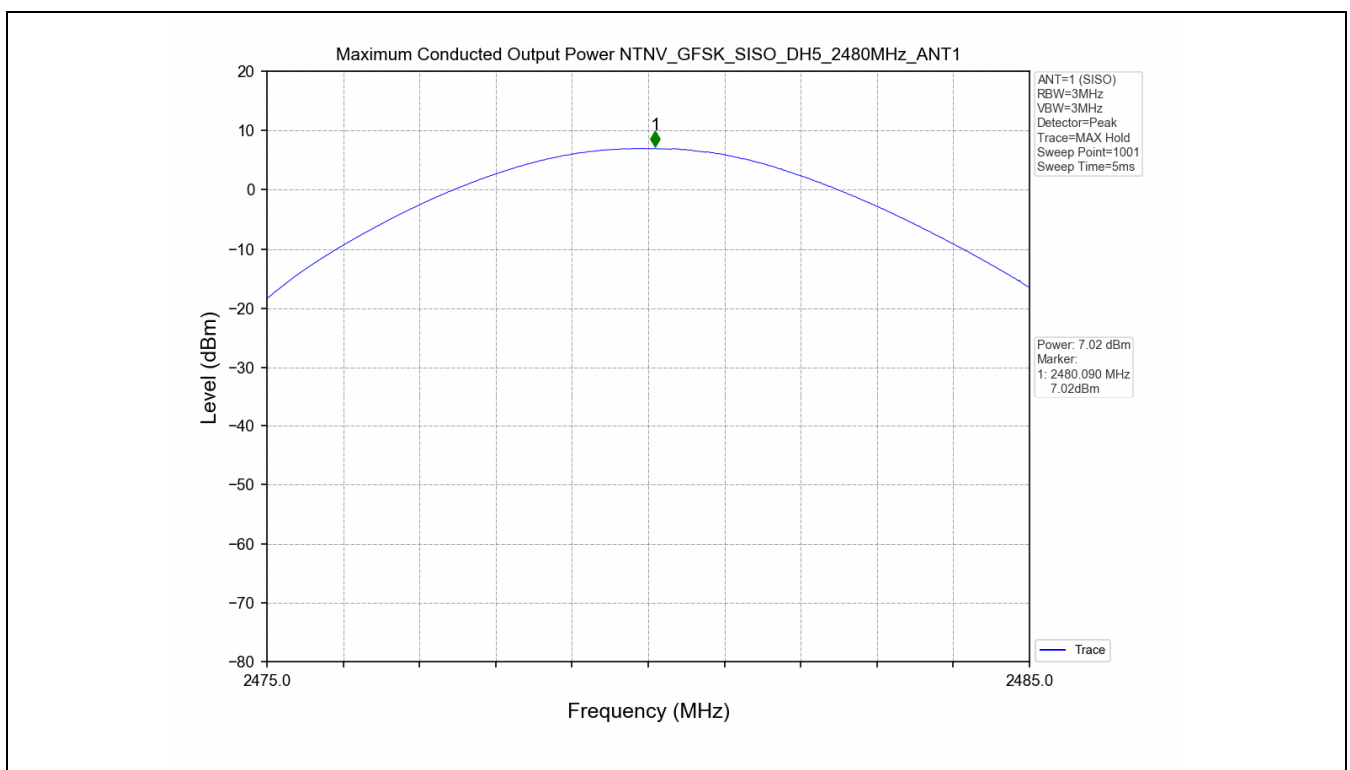
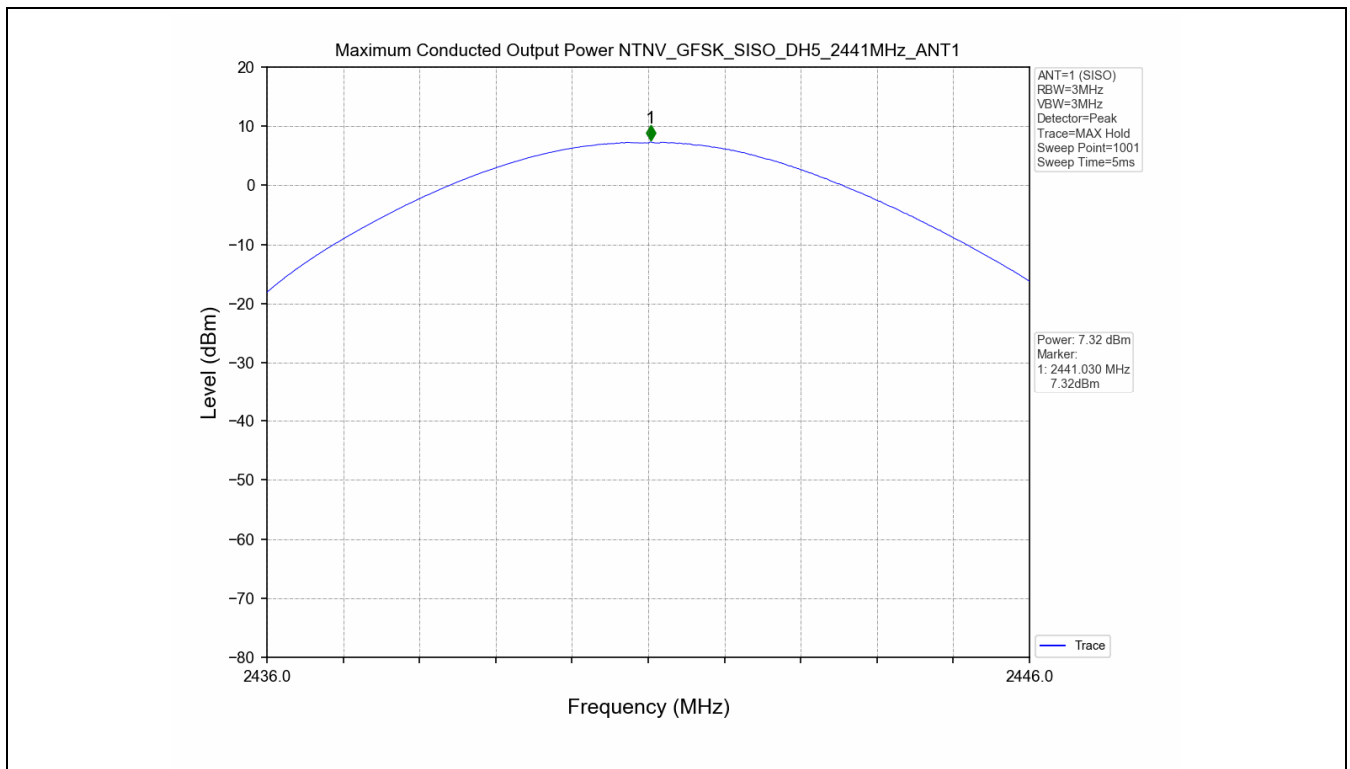
1. Maximum Conducted Output Power

1.1 Test Result

Test Mode	Frequency (MHz)	Tx Type	Measured Peak Output Power (dBm)	Limits (dBm)	Verdict
			Ant 1		
GFSK	2402	SISO	7.76	20.97	PASS
	2441	SISO	7.32	20.97	PASS
	2480	SISO	7.02	20.97	PASS
Pi/4DQPSK	2402	SISO	7.81	20.97	PASS
	2441	SISO	7.37	20.97	PASS
	2480	SISO	7.03	20.97	PASS
8DPSK	2402	SISO	7.82	20.97	PASS
	2441	SISO	7.41	20.97	PASS
	2480	SISO	7.04	20.97	PASS

1.2 Test Graph

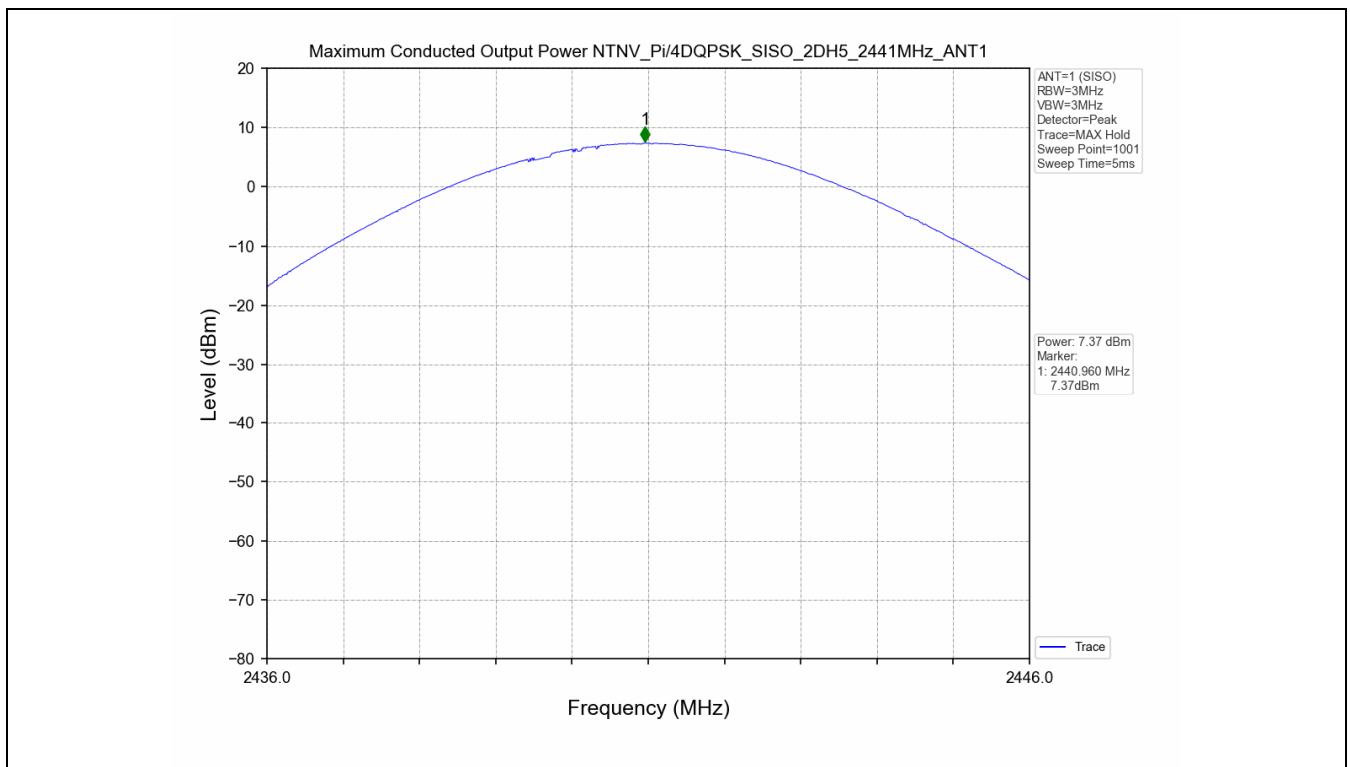
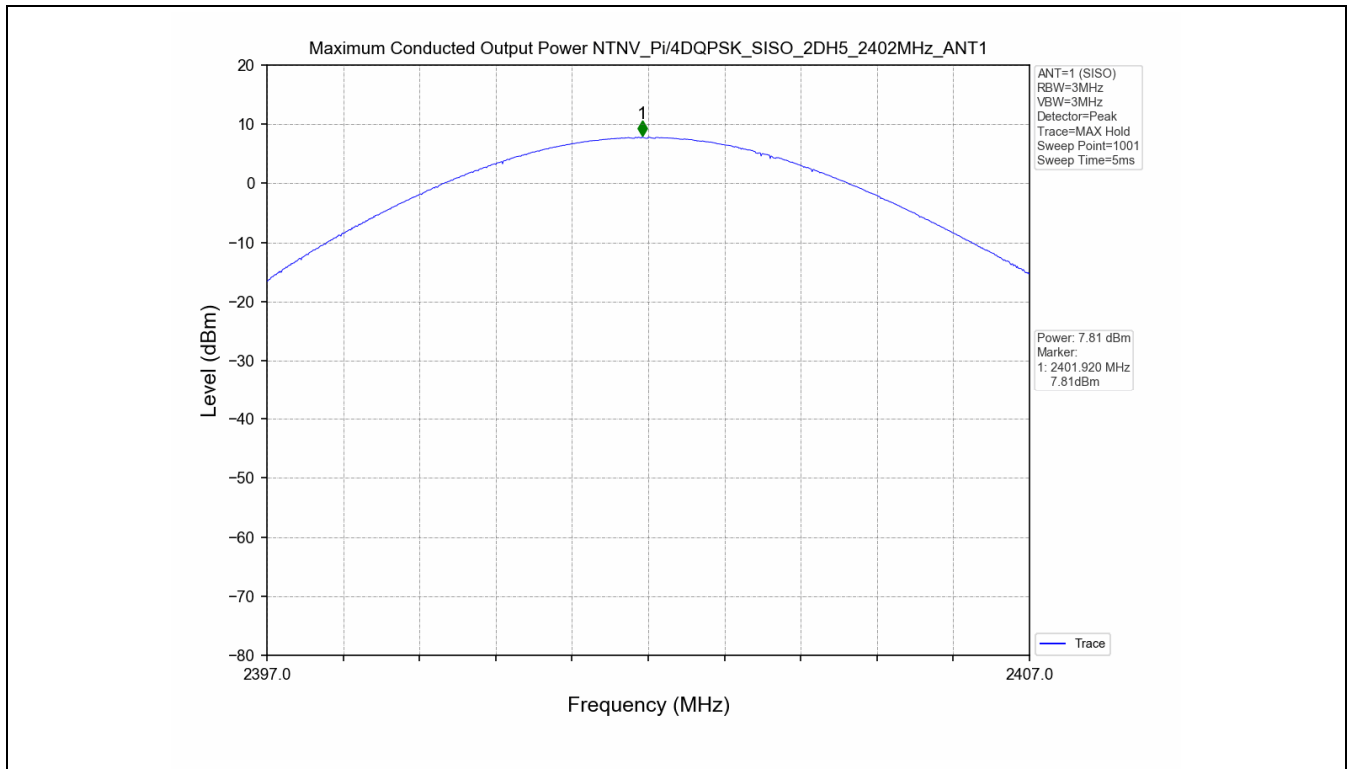


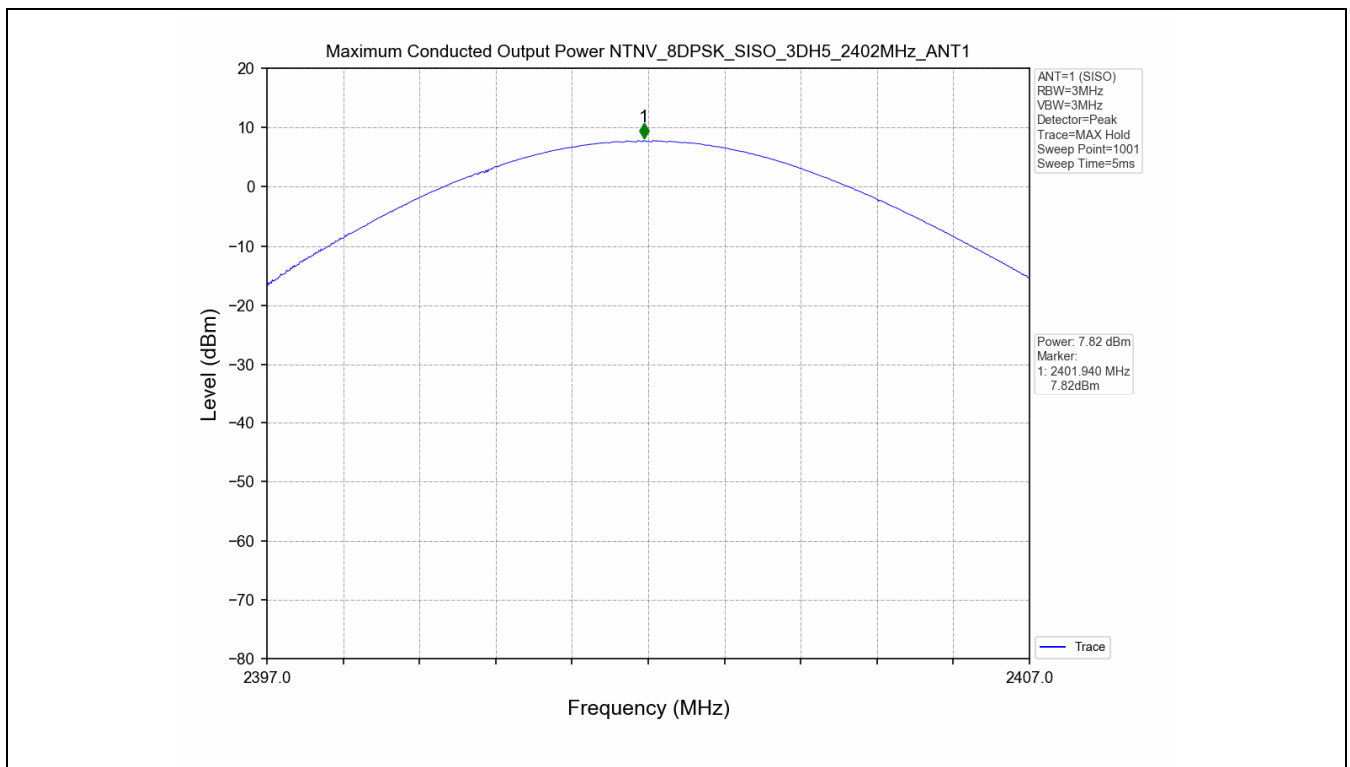
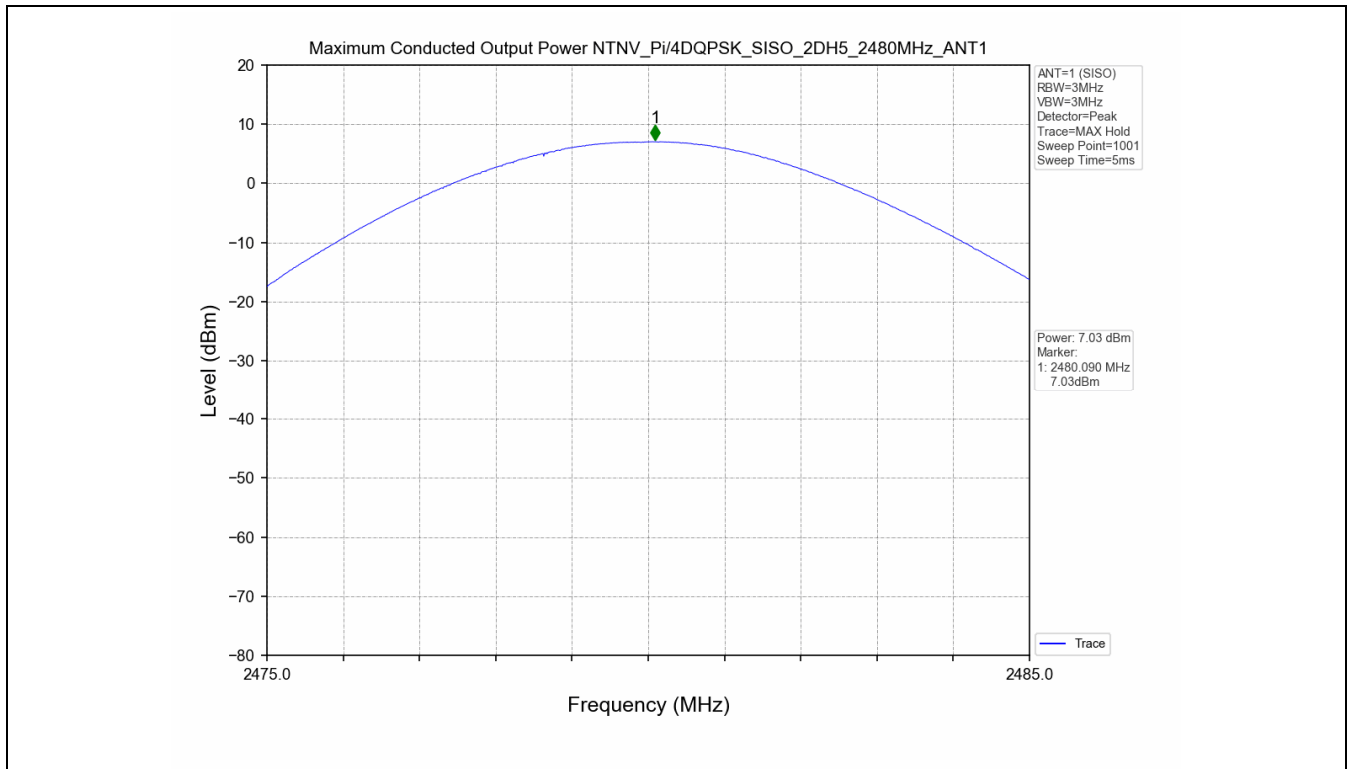


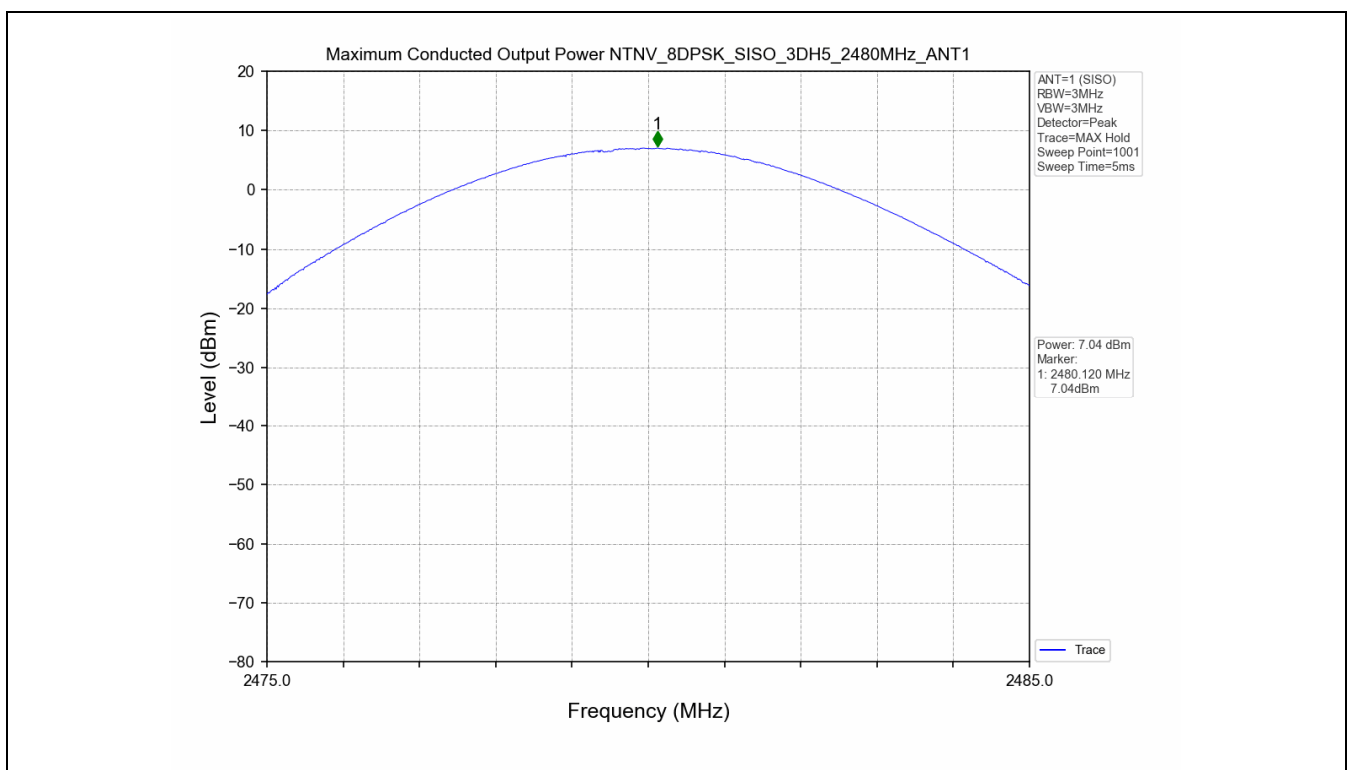
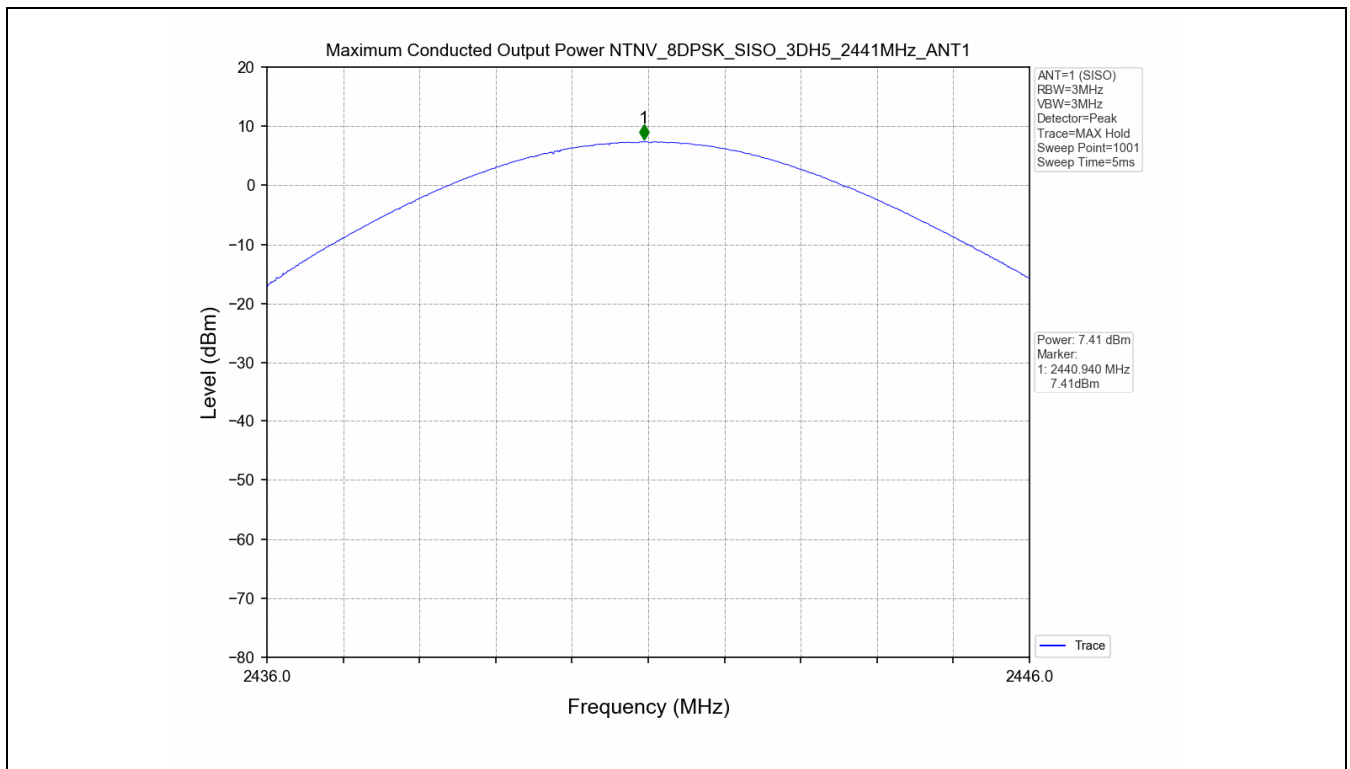
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