

Report No.: SUCR241200053004

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TEST REPORT

SUCR2412000530MO **Application No.:**

Quectel Wireless Solutions Co., Ltd. Applicant:

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, **Address of Applicant:**

Minhang District, Shanghai, China 200233

Manufacturer: Quectel Wireless Solutions Co., Ltd.

Building 5, Shanghai Business Park Phase III (Area B), No.1016 Tianlin Road, Address of Manufacturer:

Minhang District, Shanghai, China 200233

Wi-Fi & Bluetooth Module **EUT Description:**

FGM840R Model No.: Trade Mark: Quectel

FCC ID: XMR2024FGM840R

Standards: FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart E

Date of Receipt: December 8, 2024

Date of Test: December 9, 2024 to January 1, 2025

Date of Issue: January 13, 2025

Test Result: PASS *

In the configuration tested, the EUT detailed in this report complied with the standards specified

Prepared by: Nature Shen/ Project Manager

Nature Shen

Approved by: Cloud Peng/ **Technical Manager**

Cloud Peng

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		January 13, 2025		Original

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Test Summary

Took Marry Bond [1] FOC mules No. Took Bonning marries Test Bond [1]						
Test Item	Band ^[1]	FCC rules No.	Test Requirements	Result	Result	Lab ^[2]
Antenna Requirement		15.203/15.407(a)		Clause 3.1	PASS	
OCAD Fraissian	Band I	15.407(a)(1)			For	
26dB Emission Bandwidth	Band II-A	15.407(a)(2)	No limit.	Clause 3.5	Report	Α
Banawiati	Band II-C	15.407(a)(2)			Purpose	
6dB Emission Bandwidth	Band III	15.407(e)	≥ 500 kHz.	Clause 3.6	PASS	Α
99% Occupied Bandwidth	Band I Band II-A Band II-C Band III	KDB 789033 D02§ D	No limit.	Clause 3.7	For Report Purpose	Α
Duty Cycle	Band I Band II-A Band II-C Band III		No limit.	Clause 3.3	For Report Purpose	Α
	Band I	15.407(a)(iv)	< 250mW			
Maximum Conducted Output	Band II-A 15.407(a)(2)	<pre><min{250mw,11dbm+10*lg(ebw)}< pre=""></min{250mw,11dbm+10*lg(ebw)}<></pre>	Clause 3.4	PASS	Α	
Power	Band II-C	-C 15.407(a)(2)	Niiiv(230iiivv, 11dbiii 10 ig(Ebvv))	Clause 5.4	1700	A
	Band III	15.407(a)(3)	a)(3) < 1W			
	Band I	15.407(a)(iv)	<11dBm/MHz			
Maximum Power	Band II-A	15.407(a)(2)	<11dBm/MHz	Clause 3.8	PASS	Α
Spectral Density	Band II-C	13.407 (a)(2)	~ I IdBIII/IVII IZ			
	Band III	15.407(a)(3)	<30dBm/500KHz			
	Band I	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.15-5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS	
Radiated Spurious Emissions	Band II-A	15.407(b) 15.205/15.209 15.407(b)	F<1GHz: §15.209 limit (QP). F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.25-5.35 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK). F<1GHz:	Clause 3.9	PASS	С
	Band II-C	15.205/15.209	§15.209 limit (QP).		PASS	

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			F≥1GHz & out-restricted: <-27dBm/MHz PK e.i.r.p. (exl. 5.47-5.725 GHz). F≥1GHz & in-restricted: §15.209 limit (AV&PK).			
	Band III	15.407(b) 15.205/15.209	F<1GHz: §15.209 limit (QP) F≥1GHz &out-restricted:(PK) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. F≥1GHz & in-restricted: §15.209 limit (AV&PK).		PASS	
Restricted bands around fundamental frequency	Band I Band II-A Band II-C Band III	15.407(b) 15.205/15.209		Clause 3.10	PASS	С
AC Power Line Conducted Emissions	Band I Band II-A Band II-C Band III	15.207		Clause 3.2	PASS	С
Dynamic Frequency Selection	Band II-A Band II-C	15.407	Channel Move Time:10 Seconds	Clause 3.11	PASS	Α
Frequency Stability	Band I Band II-A Band II-C Band III	15.407(g)	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual	N/A	N/A	N/A

Note 1:

Band I: 5150-5250MHz Band II-A: 5250-5350MHz Band II-C: 5470-5725MHz Band III: 5725-5850MHz

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Note 2:

Lab A SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. Lab B SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Lab C SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.

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General Information

2.1 Details of Client

Applicant:	Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China
Manufacturer:	Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer:	Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai, China

2.2 Test Location

Lab A:	
Company:	SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd.
Address:	South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone
Post code:	215000
Test engineer:	Super Wu
Lab C:	
Company:	SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd.
Address:	1/F, Unit D, Building 1, Kanghong Orange Science Park, No.137, Keyuan 3rd Road, Fengdong New Town, Xi' an, Shaanxi China
Post code:	710086
Test engineer:	Abbott Wang

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2.3 Test Facility

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

Lab A:

• A2LA (Certificate No. 6336.01)

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0120.

IC#: 27594.

• FCC -Designation Number: CN1312

SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory.

Designation Number: CN1312.

Test Firm Registration Number: 717327

Lab C:

A2LA (Certificate No. 4854.01)

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4854.01.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0095.

IC#: 25613.

FCC –Designation Number: CN1337

SGS-CSTC Standards Technical Services (Xi'an) Co., Ltd. has been recognized as an accredited testing

Designation Number: CN1337.

Test Firm Registration Number: 917410

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2.4 General Description of EUT

EUT Description:	Wi-Fi & Blu	etooth Module		
Model No.:	FGM840R			
Trade Mark:	Quectel	Quectel		
Hardware Version:	FGM840RA	AMD-0L-04(R1.0),FGM840RAAMD-4X-04(R1.1)		
Software Version:	FGM840RA	AR01A01M04		
Power Supply:	3.0~3.6V, ty	/p3.3 V		
	802.11a:	20 MHz channel bandwidth		
WLAN Mode Supported:	802.11n:	20 MHz / 40 MHz channel bandwidth		
Operation Frequency:	5150MHz to 5250MHz to 5470MHz to 5725MHz to	o 5350MHz o 5725MHz		
M 116 T	802.11a:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
Modulation Type:	802.11n:	OFDM (BPSK, QPSK, 16QAM, 64QAM)		
Channel Spacing:	20MHz:	802.11a/n(HT20)		
Channel Spacing.	40MHz:	802.11n(HT40)		
Antenna Type:	External Antenna			
Antenna Gain*:	5.15~5.25GHz: 3.3dBi(Y4RYM0MA0AA); 3.1dBi(Y4RYM0MA0BA); 3.3dBi(Y4RYM0MA0CA); 5.25~5.35GHz: 3.3dBi(Y4RYM0MA0AA); 3.1dBi(Y4RYM0MA0BA); 3.3dBi(Y4RYM0MA0CA); 5.47~5.725GHz: 3.3dBi(Y4RYM0MA0AA); 3.1dBi(Y4RYM0MA0BA); 3.3dBi(Y4RYM0MA0CA); 5.725~5.85GHz: 3.3dBi(Y4RYM0MA0AA); 3.1dBi(Y4RYM0MA0BA); 3.3dBi(Y4RYM0MA0CA); Note:			
	The antenna gain are derived from the gain information report provided by manufacturer.			
	⊠ SISO	802.11a/n		
		CDD: 802.11a/n/ac: Tx & Rx		
Smart System:	☐ MIMO	STBC: 802.11n/ac: Tx & Rx		
		TXBF: 802.11n/ac: Tx & Rx		
	Diversity	802.11a: Tx & Rx		

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TPC Function:	☐Support, ☐Not Support		
Use Conditions:	Client devices		
DFS Function:	□Master		
DFS FUNCTION.	☐Slave with radar detection	⊠Slave without radar detection	
RF Cable*:	2dB		
A 1 4 4			

Note: *

- 1. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, SGS is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.
- FGM840R has two Hardware Version: FGM840RAAMD-0L-04, FGM840RAAMD-4X-04. FGM840RAAMD-4X-04 and FGM840RAAMD-0L-04 both use RTL8720DF chipset, share the same chipset baseline, same software and hardware design, the primary difference lies in the antenna pedestal. FGM840RAAMD-4X-04 use IPEX antenna port, FGM840RAAMD-0L-04 use LCC pad port, Distinguish by changing the position of one resistor. Based on the differences, main test FGM840RAAMD-0L-04(R1.0) version, FGM840RAAMD-4X-04(R1.1) version Check worse mode RSE, only the worst data is presented in the report.
- 3. FGM840R has three antenna, respectively: Y4RYM0MA0AA/Y4RYM0MA0BA/Y4RYM0MA0CA. Y4RYM0MA0AA,Y4RYM0MA0BA,Y4RYM0MA0CA both are FPC + 1.13 + Ipex-1 antenna. Among them, Y4RYM0MA0CA is the mirror version of Y4RYM0MA0AA, and Y4RYM0MA0BA is the version where Y4RYM0MA0AA modifies the line length. Pre-scan was done on the above antennas, measurements were demonstrated by using the antenna with the highest gain as the worst case scenarios.

Remark:

- 4. The only difference between the two models is that L15C1 comes with a printer and L15D1 does not come with a printer, everything else is exactly the same. Based on the above differences, complete testing will be conducted for L15C1 model, while L15D1 model will only check EMC.
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Remark:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as

Frequency range over which device operates	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:				
Mode	Channel	Frequency(MHz)		
	The Lowest channel	5180		
IEEE 802.11a/n 20MHz	The Middle channel	5200		
	The Highest channel	5240		
IEEE 002 445 40MH-	The Lowest channel	5190		
IEEE 802.11n 40MHz	The Highest channel	5230		

For UNII Band II-A:				
Mode	Channel	Frequency(MHz)		
	The Lowest channel	5260		
IEEE 802.11a/n 20MHz	The Middle channel	5280		
	The Highest channel	5320		
IEEE 002 445 40MHz	The Lowest channel	5270		
IEEE 802.11n 40MHz	The Highest channel	5310		

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For UNII Band II-C:				
Mode	Channel	Frequency(MHz)		
	The Lowest channel	5500		
IEEE 802.11a/n 20MHz	The Middle channel	5580		
	The Highest channel	5700		
	The Lowest channel	5510		
IEEE 802.11n 40MHz	The Middle channel	5550		
	The Highest channel	5670		

For UNII Band III:								
Mode	Channel	Frequency(MHz)						
	The Lowest channel	5745						
IEEE 802.11a/n 20MHz	The Middle channel	5785						
	The Highest channel	5825						
IEEE 000 445 40MH-	The Lowest channel	5755						
IEEE 802.11n 40MHz	The Highest channel	5795						

Frequency Band	Channel	Freq.(MHz)	Channel	Freq.(MHz)
	120 ^[1]	5600	124 ^[1]	5620
TDWR Channel	128 ^[1]	5640	118 ^[2]	5590
	126 ^[2]	5630	-	-

Note:

- 1. The above Frequency and Channel were 802.11a, 802.11n HT20.
- 2. The above Frequency and Channel were 802.11n HT40.

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2.5 Test Environment and Mode

Environment Parameter	101.0 kPa Selected Values During Tests							
Relative Humidity	44-46 % RH Ambient							
Value	Temperature(°C)	Voltage(V)						
NTNV	22~23	3.3						
Pemark:	Domark:							

Remark:

NV: Normal Voltage Normal Temperature NT:

2.6 Description of Support Units

Description	Manufacturer	Model No.			
Mother board	Quectel	N/A			
Remark: all above the information of table are provided by client.					

2.7 Worst-case configuration and mode

Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power. Following are the worst-case data rates set for test:

Modulation Type	SISO - Data Rate	MIMO - Data Rate
802.11a	6 Mbps	/
802.11n (HT 20)	MCS0 (6.5 Mbps)	/
802.11n (HT 40)	MCS0 (13.5 Mbps)	/

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3 **Test results and Measurement Data**

3.1 Antenna Requirement

47 CFR Part 15 Section 15.203 Standard requirement:

The antenna is Dipole Antenna and no consideration of replacement. The best case gain of the antenna is 5150MHz to 5250MHz: 3.3dBi(Y4RYM0MA0AA); 3.3dBi(Y4RYM0MA0BA); 3.3dBi(Y4RYM0MA0CA); 5250MHz to 5350MHz: 3.3dBi(Y4RYM0MA0AA); 3.3dBi(Y4RYM0MA0BA); 3.3dBi(Y4RYM0MA0CA); 5470MHz to 5725MHz: 3.3dBi(Y4RYM0MA0AA); 3.3dBi(Y4RYM0MA0BA); 3.3dBi(Y4RYM0MA0CA); 5725MHz to 5850MHz: 3.3dBi(Y4RYM0MA0AA); 3.3dBi(Y4RYM0MA0BA); 3.3dBi(Y4RYM0MA0CA);

The antenna gain are derived from the gain information report provided by the manufacturer. Remark:

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability reliability or/and integrity of the information.

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3.2 AC Power Line Conducted Emissions

Test Requirement:	47 CFR Part 15 Section	15 207				
Test Method:	ANSI C63.10: 2013 Section 6.2					
Test Frequency Range:	150kHz to 30MHz					
Receiver Setup:	RBW = 9kHz, VBW = 30kHz					
Limit:	Frequency range (MHz)					
	Quasi-peak Average (MHZ)					
	0.15-0.5	66 to 56*	56 to 46*			
	0.5-5	56	46			
	5-30	60	50			
	* Decreases with the log	arithm of the frequency.				
Test Procedure:	 5-30 60 50 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielder room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω lineal impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of 					

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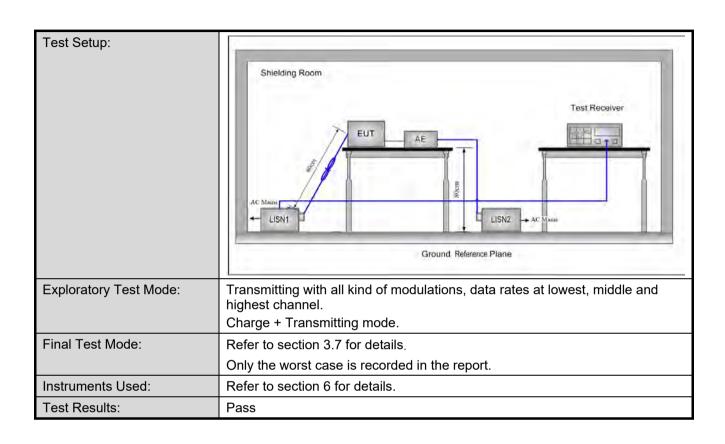
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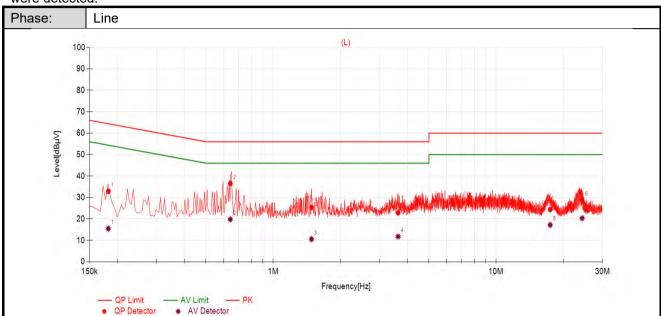
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



Final	Final Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1820	9.85	23.04	32.89	64.40	31.51	5.62	15.47	54.40	38.93	PASS
2	0.6423	9.93	26.65	36.58	56.00	19.42	9.88	19.81	46.00	26.19	PASS
3	1.4862	9.84	15.53	25.37	56.00	30.63	0.73	10.57	46.00	35.43	PASS
4	3.6349	9.86	12.99	22.85	56.00	33.15	1.90	11.76	46.00	34.24	PASS
5	17.5041	10.24	14.11	24.35	60.00	35.65	6.96	17.20	50.00	32.80	PASS
6	24.3528	10.28	18.55	28.83	60.00	31.17	10.04	20.32	50.00	29.68	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[$dB\mu V$] Value[$dB\mu V$]

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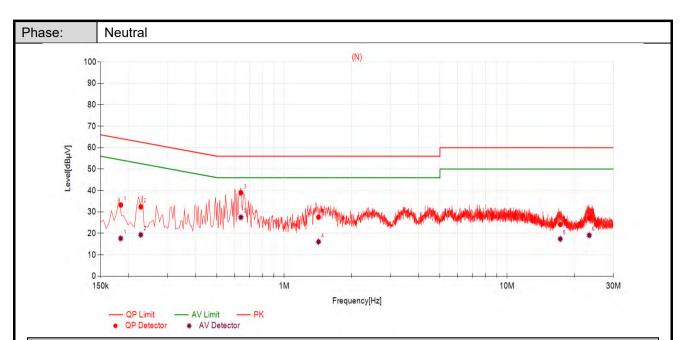
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Final	Final Data List										
NO.	Frequency [MHz]	Factor [dB]	QP Reading [dBµV]	QP Value [dBµV]	QP Limit [dBµV]	QP Margin [dB]	AV Reading [dBµV]	AV Value [dBµV]	AV Limit [dBµV]	AV Margin [dB]	Verdict
1	0.1848	9.83	23.41	33.24	64.27	31.03	7.84	17.67	54.27	36.60	PASS
2	0.2273	9.83	22.53	32.36	62.55	30.19	9.52	19.35	52.55	33.20	PASS
3	0.6396	9.85	29.08	38.93	56.00	17.07	17.65	27.50	46.00	18.50	PASS
4	1.4259	9.82	17.79	27.61	56.00	28.39	6.27	16.09	46.00	29.91	PASS
5	17.3377	10.31	13.86	24.17	60.00	35.83	7.12	17.43	50.00	32.57	PASS
6	23.3810	10.31	16.77	27.08	60.00	32.92	8.80	19.11	50.00	30.89	PASS

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Value =Reading[dBµV] + Factor(Lisn factor[dB] + cable loss[dB]).
- 3. Margin = Limit[dBµV] Value[dBµV]

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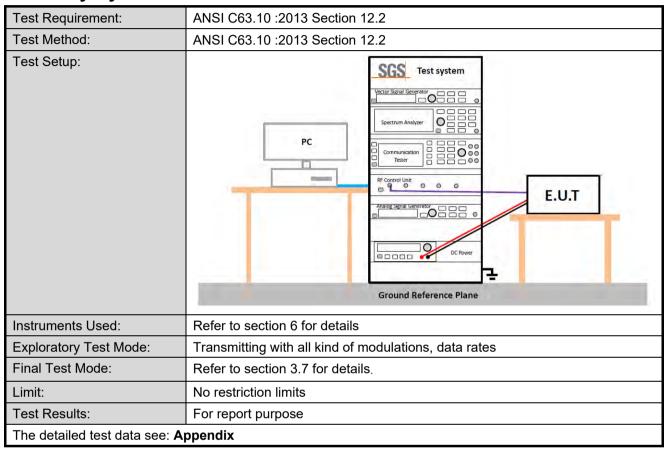


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3.3 Duty Cycle



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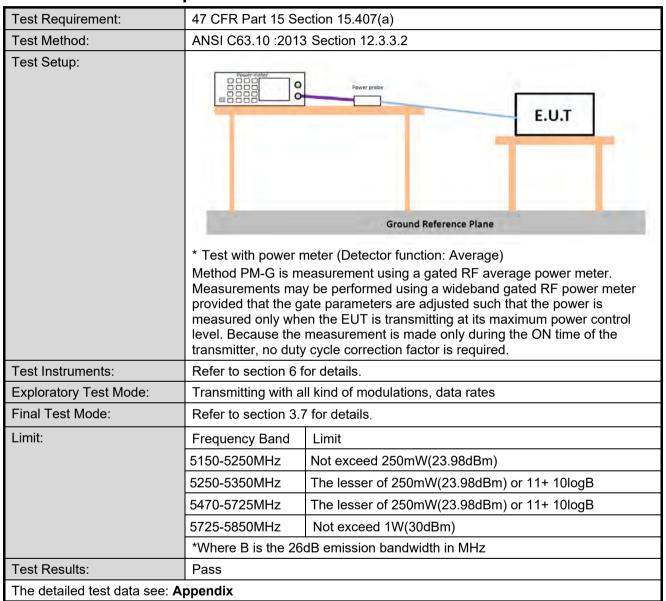


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3.4 Conducted Output Power



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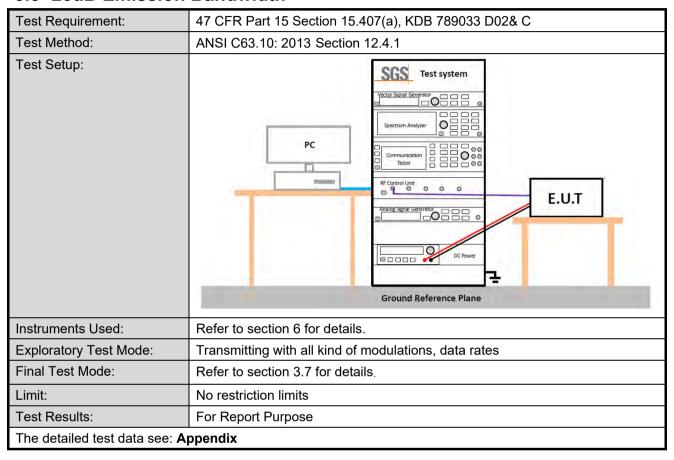


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3.5 26dB Emission Bandwidth



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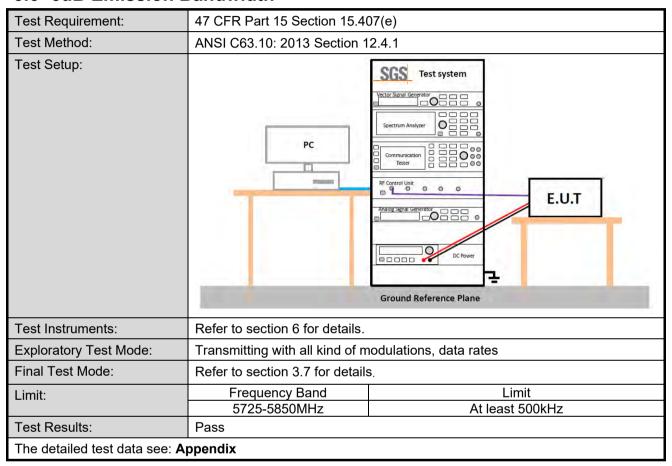


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3.6 6dB Emission Bandwidth



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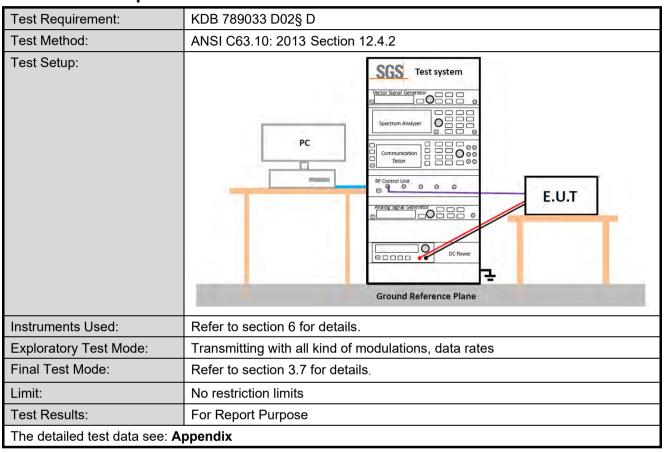


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3.7 99% Occupied Bandwidth



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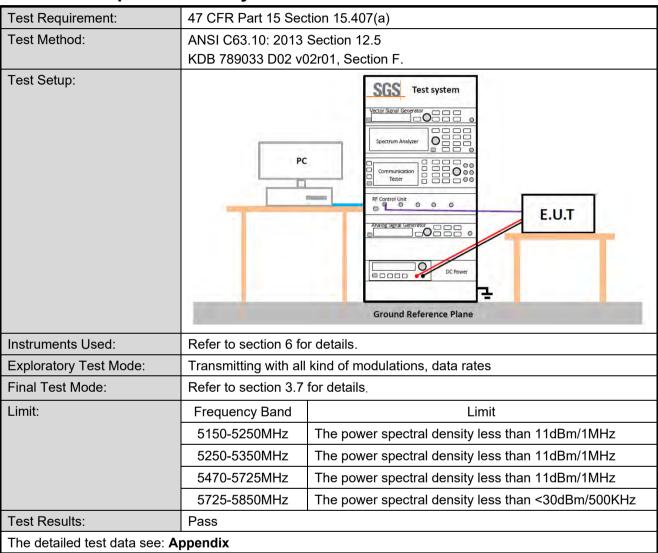


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3.8 Power Spectral Density



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3.9 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.205 and 15.209
Test Method:	ANSI C63.10: 2013 Section 6.4 / 6.5 / 6.6
Test Site:	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)
Test frequency:	9kHz ~ 40GHz(or 10 Harmonic)

Test Setup:

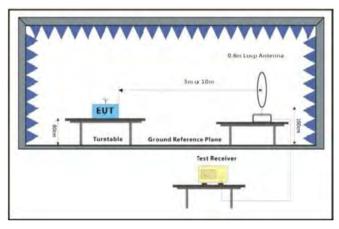
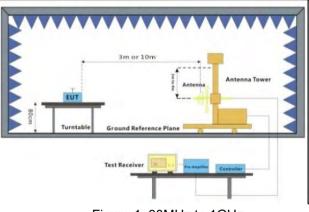


Figure 1. 9kHz to 30MHz



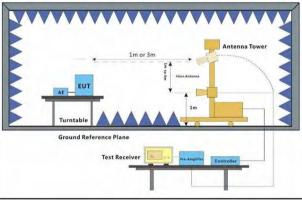


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz

Test Procedure:

- For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.

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	(Distance from antenna to EUT is 1m for measurements >18GHz).
C.	The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
d.	The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
e.	For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the

maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

rotatable table was turned from 0 degrees to 360 degrees to find the

- g. Test the EUT in the outermost channels.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is worse case.
- Repeat above procedures until all frequencies measured was complete.
- The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported
- The disturbance above 18GHz was very low, and the harmonics were the highest point could be found when testing, so only the harmonics had been displayed.
- At a measurement distance of 1 meter the limit line was increased by 20*LOG(3/1) = 9.54 dB.

Test Configuration:

Measurements below 30MHz

- RBW = 10 kHz
- VBW = 30 kHz
- Detector = Peak & Average & Quasi-peak
- Trace mode = max hold

Measurements Below 1000MHz

- RBW = 120 kHz
- VBW = 300 kHz
- Detector = Quasi-peak
- Trace mode = max hold

Peak Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

Average Measurements Above 1000MHz

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	 RBW = 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation. 			
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.			
Final Test Mode:	Refer to section 3.7 for details.			
	For below 1GHz part, through pre-scan all channels, but only the worst case is recorded in the report.			
Instruments Used:	Refer to section 6 for details.			
Test Results: Pass				
The detailed test data see	e: Appendix			

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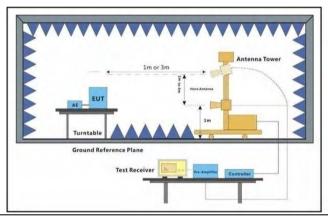
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3.10Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.	47 CFR Part 15 Section 15.407(b)					
Test Method:	ANSI C63.10: 2013 Section	12.7					
Test Site:	Measurement Distance: 3m	(Semi-Anechoic Cham	per)				
Limit:	Frequency Limit (dBuV/m) Remark						
	30MHz-88MHz	40.0	Quasi-peak				
	88MHz-216MHz	43.5	Quasi-peak				
	216MHz-960MHz	46.0	Quasi-peak				
	960MHz-1GHz	54.0	Quasi-peak				
	Above 1GHz	54.0	Average Value				
	Above IGHZ	74.0	Peak Value				

Test Setup:



Test Procedure:

- The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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	 f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel. g. Test the EUT in the outermost channels. h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. i. Repeat above procedures until all frequencies measured was complete.
Test Configuration:	 Measurements Below 1000MHz RBW = 120 kHz VBW = 300 kHz Detector = Quasi-peak Trace mode = max hold Peak Measurements Above 1000 MHz RBW = 1 MHz VBW ≥ 3 MHz Detector = Peak Sweep time = auto Trace mode = max hold Average Measurements Above 1000MHz RBW = 1 MHz VBW = 1 MHz VBW = 10Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where Tis the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Charge + Transmitting mode.
Final Test Mode:	Refer to section 3.7 for details.
Instruments Used:	Refer to section 6 for details.
Test Results:	Pass
The detailed test data see	: Appendix

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3.11 Dynamic Frequency Selection

3.11.1 DFS Overview

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode				
	Master	Client Without Radar Detection	Client With Radar Detection		
Non-Occupancy Period	Yes	Not required	Yes		
DFS Detection Threshold	Yes	Not required	Yes		
Channel Availability Check Time	Yes	Not required	Not required		
U-NII Detection Bandwidth	Yes	Not required	Yes		

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master Device or Client with Radar Detection	Client Without Radar Detection	
DFS Detection Threshold	Yes	Not required	
Channel Closing Transmission Time	Yes	Yes	
Channel Move Time	Yes	Yes	
U-NII Detection Bandwidth	Yes	Not required	

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Additional requirements for devices with	Master Device or Client with	Client Without Radar
multiple bandwidth modes	Radar Detection	Detection
U-NII Detection Bandwidth and Statistical	All BW modes must be tested	Not required
Performance Check		
Channel Move Time and Channel Closing	Test using widest BW mode	Test using the widest
Transmission Time	available	BW mode available for
		the link
All other tests	Any single BW mode	Not required

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

3.11.2 DFS Detection Thresholds

Table 3: DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection

Maximum Transmit Power	Value
	(See Notes 1, 2, and 3)
EIRP ≥ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and	-62 dBm
power spectral density < 10 dBm/MHz	
EIRP < 200 milliwatt that do not meet the power spectral density	-64 dBm
requirement	

Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

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3.11.3 RADAR TEST WAVEFORMS

Table 5 - Short Pulse Radar Test Waveforms

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Number of Trials
0	1	1428	18	See Note 1	See Note 1
1	1	Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a Test B: 15 unique PRI values randomly selected within the range of 518-3066 µsec, with a minimum increment of 1 µsec, excluding PRI values selected in Test A	Roundup $ \left\{ \frac{1}{360} \right\} \cdot \left\{ \frac{19 \cdot 10^6}{\text{PRI}_{\mu \text{sec}}} \right\} $	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
ggregate	(Radar Types 1-	4)		80%	120

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

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Table 5a - Pulse Repetition Intervals Values for Test A

Pulse Repetition	Pulse Repetition Frequency	Pulse Repetition
Frequency Number	(Pulses Per Second)	(Microseconds)
1	1930.5	518
2	1858.7	538
3	1792.1	558
4	1730.1	578
5	1672.2	598
6	1618.1	618
7	1567.4	638
8	1519.8	658
9	1474.9	678
10	1432.7	698
11	1392.8	718
12	1355	738
13	1319.3	758
14	1285.3	778
15	1253.1	798
16	1222.5	818
17	1193.3	838
18	1165.6	858
19	1139	878
20	1113.6	898
21	1089.3	918
22	1066.1	938
23	326.2	3066

The aggregate is the average of the percentage of successful detections of Short Pulse Radar Types 1-4. For example, the following table indicates how to compute the aggregate of percentage of successful detections.

Radar Type	Number of Trials	Number of Successful	Minimum Percentage		
		Detections	of Successful		
			Detection		
1	35	29	82.9%		
2	30	18	60%		
3	30	27	90%		
4	50	44	88%		
Aggregate (82.9% + 60% + 90% + 88%)/4 = 80.2%					

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Table 6 - Long Pulse Radar Test Waveform

Radar	Pulse	Chirp	PRI	Number	Number	Minimum	Minimum
Type	Width	Width	(µsec)	of Pulses	of Bursts	Percentage of	Number of
	(µsec)	(MHz)		per Burst		Successful	Trials
						Detection	
5	50-100	5-20	1000-	1-3	8-20	80%	30
			2000				

Table 7 – Frequency Hopping Radar Test Waveform

Table / Trequency Tropping Radai Test // areform							
Radar	Pulse	PRI	Pulses	Hopping	Hopping	Minimum	Minimum
Type	Width	(µsec)	per	Rate	Sequence	Percentage of	Number of
	(µsec)		Hop	(kHz)	Length	Successful	Trials
					(msec)	Detection	
6	1	333	9	0.333	300	70%	30

3.11.4 Response Requirements

Table 4: DFS Response Requirement Values

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds
	See Note 1.
Channel Closing Transmission Time	200 milliseconds + an
	aggregate of 60
	milliseconds over remaining
	10 second period.
	See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the U-
	NII 99% transmission
	power bandwidth. See Note
	3.

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst. Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the

beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the *U-NII Detection Bandwidth* detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

The detailed test data see: Appendix

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4 Measurement Uncertainty (95% confidence levels, k=2)

Lab A:		
No.	Item	Measurement Uncertainty
1	Total RF power, conducted	±0.54dB
2	RF power density, conducted	±1.03dB
3	Spurious emissions, conducted	±0.54dB
4	Radio Frequency	1%
5	Duty Cycle	±0.37%
6	Occupied Bandwidth	1%

Lab C:

No.	Item Measurement Uncertainty				
1	Conduction Emission	± 3.0dB (150kHz to 30MHz)			
2	Radiated Emission	± 4.6dB (9KHz~30MHz)			
		± 4.9dB (30MHz~1GHz)			
		± 4.9dB (1GHz to 6GHz)			
		± 4.7dB (6GHz to 18GHz)			
		± 5.26dB (Above 18GHz)			

Remark:

The U_{lab} (lab Uncertainty) is less than U_{cispriETSI} (CISPR/ETSI 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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Equipment List

Lab A:								
RF Test Equipment								
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date			
Shielding Room	Brilliant-emc	N/A	SUWI-04-08-01	2022/11/9	2025/11/8			
Temperature and humidity meter	MingGao	TH101B	SUWI-01-01-07	2024/2/18	2025/2/17			
Signal Analyzer	ROHDE&SCHWARZ	FSV3030	SUWI-01-02-02	2024/5/8	2025/5/7			
Measurement Software	Tonscend	TST272 V2.0	SUWI-03-55-03	NCR	NCR			
Signal Analyzer	ROHDE&SCHWARZ	FSW43	SUWI-01-02-04	2024/5/8	2025/5/7			
Temperature Chamber	ESPEC	SU-242	SUWI-01-13-02	2024/5/9	2025/5/8			
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW500	SUWI-01-16-05	2024/2/4	2025/2/3			
DC Power Supply	HYELEC	HY3005B	SUWI-01-18-01	2024/2/4	2025/2/3			
Power meter	Anritsu	ML2495A	SUWI-01-31-01	2024/11/19	2025/11/18			
Pulse power sensor	Anritsu	MA2411B	SUWI-01-32-01	2024/11/19	2025/11/18			
MXG Vector signal genitor	KEYSIGHT	N5182B	SUWI-01-38-01	2024/2/4	2025/2/3			
Router	ASUS	GT- AXE11000(FCC ID MSQ- RTAXJF00)	SUWI-03-14-02	NCR	NCR			
Router	TP-LINK	Archer BE800 (FCC ID 2AXJ4BE800)	SUWI-03-14-03	NCR	NCR			
RF Control Unit	Tonscend	JS0806-1	SUWI-02-20-01	NCR	NCR			
RF Control Unit	TST	TSCB3023R2	SUWI-02-21-01	NCR	NCR			
Signal Generator	ROHDE&SCHWARZ	SMM100A	SUWI-01-07-04	20242/16	2025/2/15			
Signal Analyzer	KEYSIGHT	N9020A	SUWI-01-02-07	2024/11/19	2025/11/18			

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Lab C:									
CE Test System									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Shielding Room	Brilliant-emc	N/A	XAW04-03-01	N/A	N/A				
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2024/8/29	2025/8/28				
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-01	2024/7/3	2025/7/2				
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2024/9/3	2025/9/2				
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-07-01	NCR	NCR				
Wireless Test platform	StarPoint	SP9500E	XAW01-45-02	2024/5/14	2025/5/13				
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2024/8/16	2025/8/15				
Artificial network	ROHDE&SCHWARZ	ENV216	XAW01-04-02	2024/7/3	2025/7/2				

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Lab C:									
RSE Test Equipment									
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date				
Semi-Anechoic Chamber	Brilliant-emc	N/A	XAW03-35-01	2024/6/4	2027/6/3				
MXA signal analyzer	Keysight	N9020A	XAW01-06-01	2024/2/2	2025/2/1				
Spectrum Analyzer	ROHDE&SCHWARZ	FSV3044	XAW01-13-05	2024/5/8	2025/5/7				
Test receiver	ROHDE&SCHWARZ	ESR	XAW01-08-01	2024/8/29	2025/8/28				
Receiving antenna (30MHz-3GHz)	Schwarzbeck	VULB 9163	XAW01-09-01	2022/7/28	2025/7/27				
Receiving antenna(1GHz~18GHz)	Schwarzbeck	BBHA 9120D	XAW01-09-02	2022/7/28	2025/7/27				
Receiving antenna (15GHz~40GHz)	Schwarzbeck	BBHA 9170	XAW01-09-03	2022/7/23	2025/7/22				
Directional antenna rack controller	Max-Full	MF-7802BS	XAW03-03-01	NCR	NCR				
High-speed antenna rack controller	Max-Full	MF-7802	XAW03-04-01	NCR	NCR				
Filter bank	Tonscend	JS0806-F	XAW03-05-01	NCR	NCR				
Filter bank	Tonscend	JS0806s	XAW03-05-02	NCR	NCR				
Amplifier	Tonscend	TAP9K3G32	XAW01-41-01	2024/5/14	2025/5/13				
Amplifier	Tonscend	TAP01018048	XAW01-41-02	2024/8/29	2025/8/28				
Amplifier	Tonscend	TAP18040048	XAW01-41-03	2024/8/16	2025/8/15				
Amplifier	Shanghai Steed	YX28980930	XAW01-41-06	2024/8/29	2025/8/28				
Temperature and humidity meter	MingGao	TH101B	XAW01-01-02	2024/9/3	2025/9/2				
Wireless Test platform	StarPoint	SP9500E	XAW01-45-02	2024/5/14	2025/5/13				
Radio communication analyzer	ROHDE&SCHWARZ	CMW 500	XAW01-03-07	2024/8/16	2025/8/15				
Measurement Software	Tonscend	TS+ V4.0.0.0	XAW02-05-01	NCR	NCR				
Radio Communication Analyzer	ANRITSU	MT8821	XAW01-03-24	2024/8/16	2025/8/15				
Loop Antenna	Schwarzbeck	FMZB 1519B	XAW01-48-02	2024/5/23	2026/5/22				

Remark: NCR=No Calibration Requirement.

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6 **Photographs - Setup Photos**

Refer to Appendix A.2 BT&WLAN Setup Photos.

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7 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1								
Mode TX Type		Frequency	T_on	Period	Duty Cycle	Duty Cycle	Max. DC	
		(MHz)	(ms)	(ms)	(%)	Correction Factor (dB)	Variation (%)	
802.11a	SISO	5180	2.064	2.194	94.07	0.27	0.03	
802.11n (HT20)	SISO	5180	1.921	2.051	93.66	0.28	0.00	
802.11n (HT40)	SISO	5190	0.944	1.074	87.90	0.56	0.06	

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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX	Frequency	ANT	99% Occupied Bandwidth (MHz)		Verdict
Ty	Type	(MHz)		Result	Limit	VEIUICI
802.11a		5180	1	17.766	1	Pass
		5200	1	17.650	1	Pass
		5240	1	17.948	1	Pass
		5260	1	18.114	1	Pass
		5300	1	17.918	1	Pass
	CICO	5320	1	18.636	1	Pass
	SISO	5500	1	17.756	1	Pass
		5580	1	17.703	1	Pass
		5700	1	17.793	1	Pass
		5745	1	17.589	1	Pass
		5785	1	17.398	1	Pass
		5825	1	17.354	1	Pass
		5180	1	18.811	1	Pass
		5200	1	18.541	1	Pass
		5240	1	18.751	1	Pass
		5260	1	19.252	1	Pass
		5300	1	18.835	1	Pass
802.11n	0100	5320	1	18.864	1	Pass
(HT20)	SISO	5500	1	18.566	1	Pass
` ,		5580	1	18.518	1	Pass
		5700	1	18.634	1	Pass
		5745	1	18.627	1	Pass
		5785	1	18.318	1	Pass
		5825	1	18.338	1	Pass
		5190	1	36.053	1	Pass
		5230	1	35.983	1	Pass
		5270	1	35.961	1	Pass
		5310	1	35.960	1	Pass
802.11n	SISO	5510	1	35.956	1	Pass
(HT40)		5550	1	35.894	1	Pass
		5670	1	35.866	1	Pass
		5755	1	35.952	1	Pass
1		5795	1	35.902	1	Pass

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2.1.2 6dB BW

Mode I _	TX	Frequency	ANT -	6dB Bandv	Verdict	
	Туре	(MHz)		Result	Limit	verdict
802.11a SISO		5745	1	16.347	>=0.5	Pass
	SISO	5785	1	16.332	>=0.5	Pass
		5825	1	16.308	>=0.5	Pass
802.11n (HT20)		5745	1	17.085	>=0.5	Pass
	SISO	5785	1	16.937	>=0.5	Pass
		5825	1	16.850	>=0.5	Pass
802.11n (HT40)	SISO	5755	1	35.198	>=0.5	Pass
		5795	1	35.213	>=0.5	Pass

2.1.3 26dB BW

Mode	TX	Frequency ANT	26dB Bandv	Mandiat		
	Type	(MHz)	ANI	Result	Limit	Verdict
		5180	1	26.328	/	Pass
		5200	1	26.433	/	Pass
		5240	1	26.320	/	Pass
		5260	1	28.470	/	Pass
802.11a	SISO	5300	1	29.496	/	Pass
		5320	1	28.915	/	Pass
		5500	1	23.163	/	Pass
		5580	1	21.548	/	Pass
		5700	1	21.464	/	Pass
		5180	1	28.955	/	Pass
		5200	1	21.501	/	Pass
		5240	1	25.966	/	Pass
802.11n		5260	1	28.990	/	Pass
	SISO	5300	1	27.567	/	Pass
(HT20)		5320	1	27.357	/	Pass
		5500	1	24.415	/	Pass
		5580	1	21.823	/	Pass
		5700	1	23.540	/	Pass
		5190	1	39.136	/	Pass
		5230	1	38.810	/	Pass
000 44=		5270	1	39.808	/	Pass
802.11n	SISO	5310	1	39.350	1	Pass
(HT40)		5510	1	39.155	/	Pass
		5550	1	39.271	1	Pass
		5670	1	39.231	1	Pass

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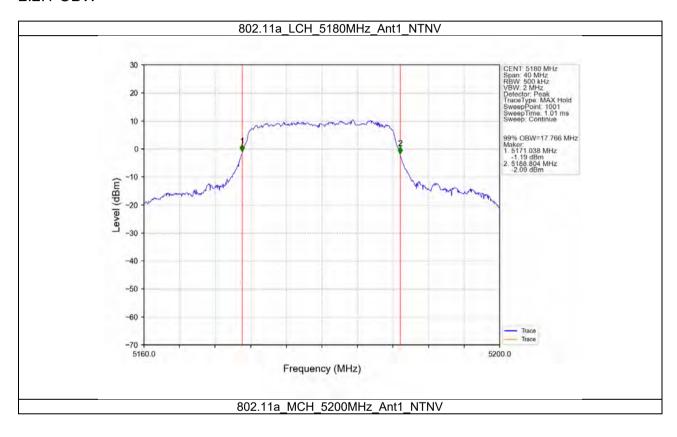
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2.2 Test Graph

2.2.1 OBW



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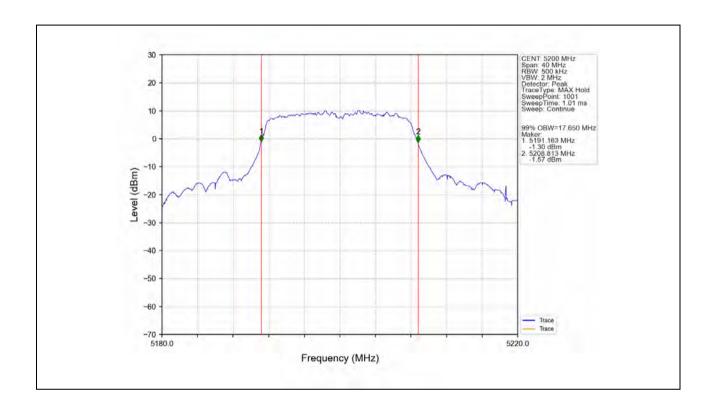
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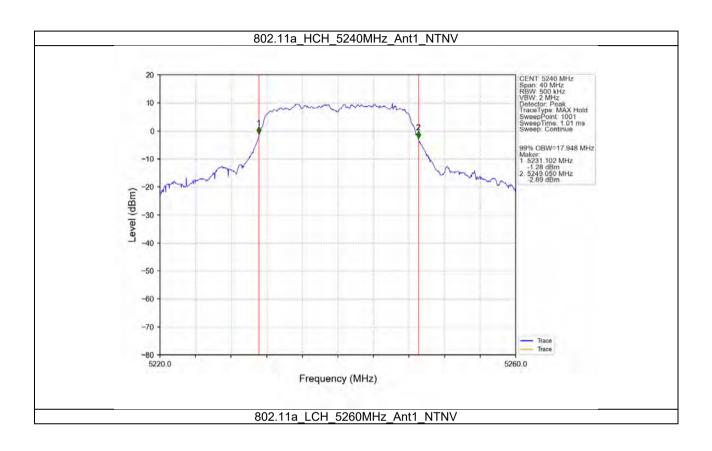
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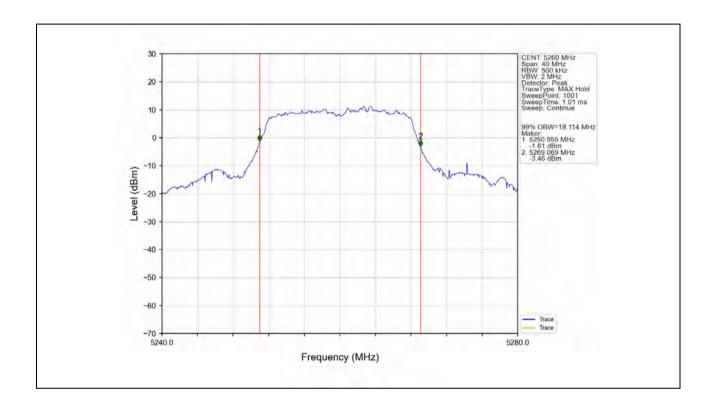
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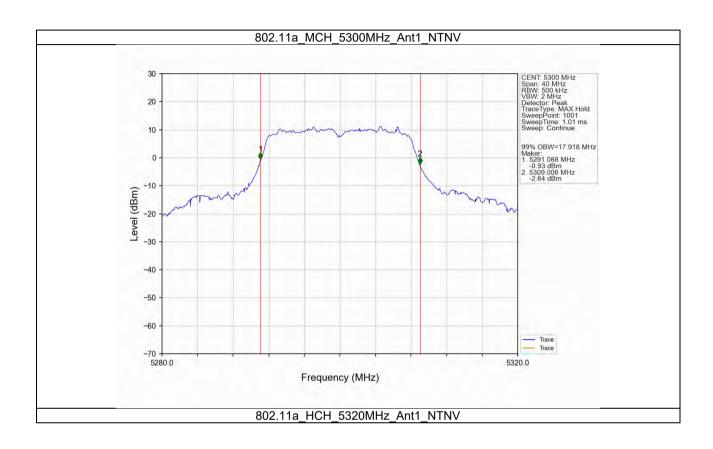
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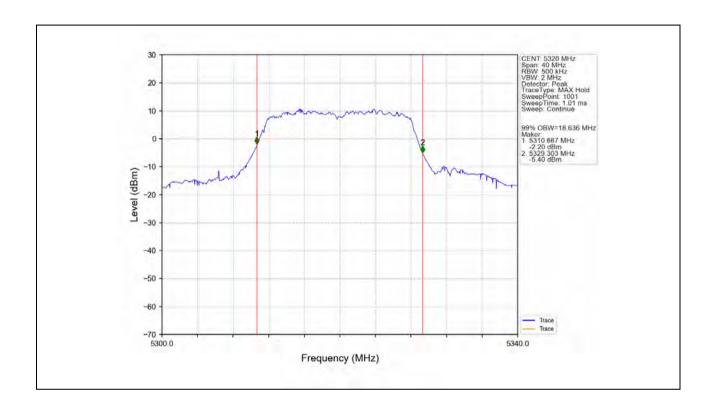
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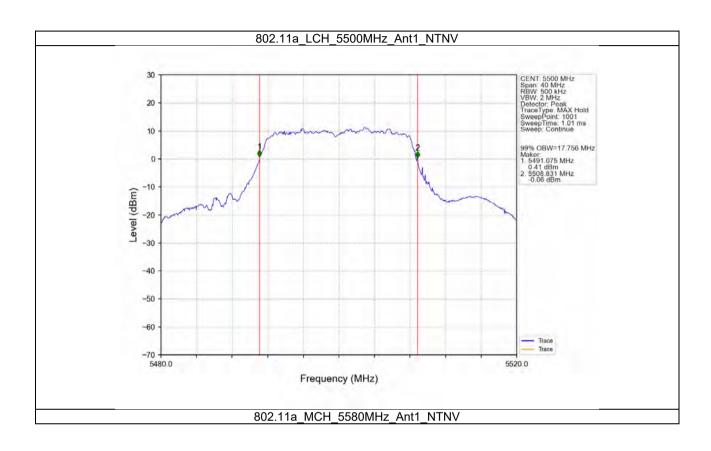
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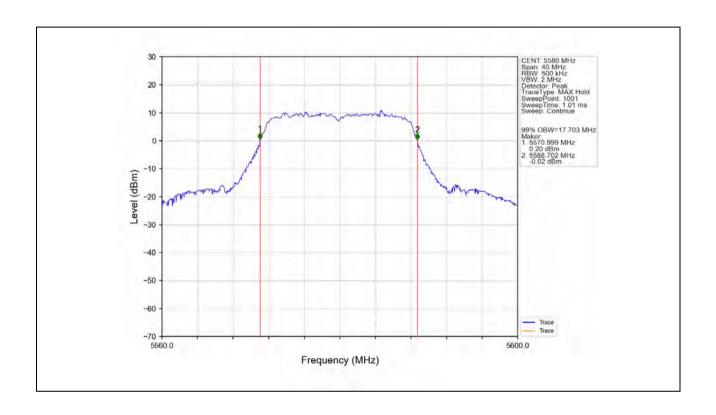
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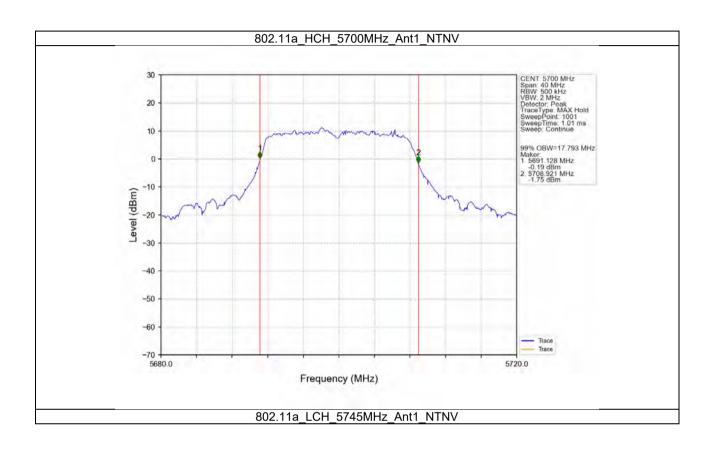
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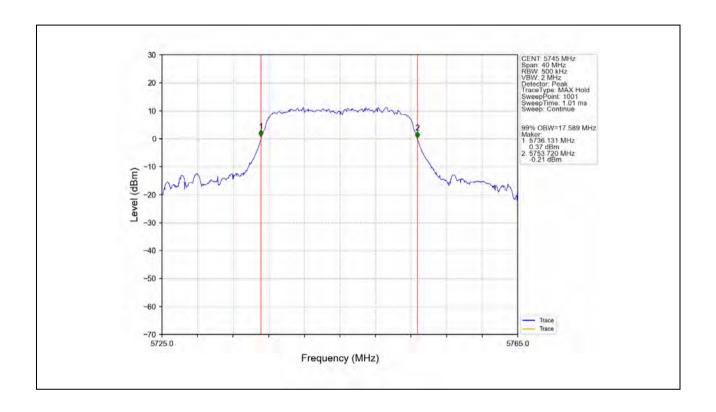
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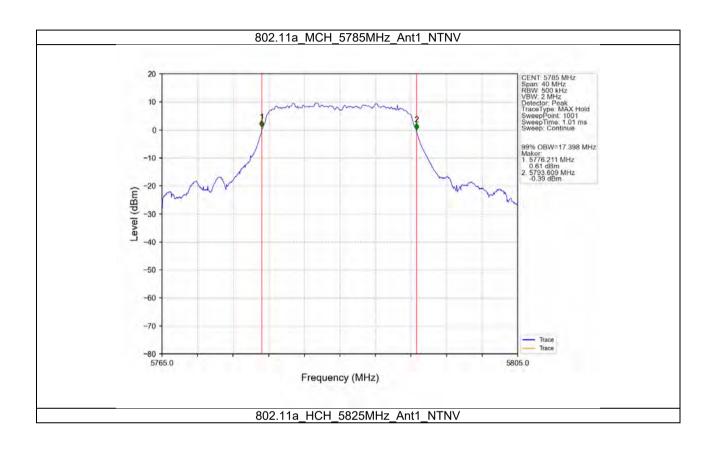
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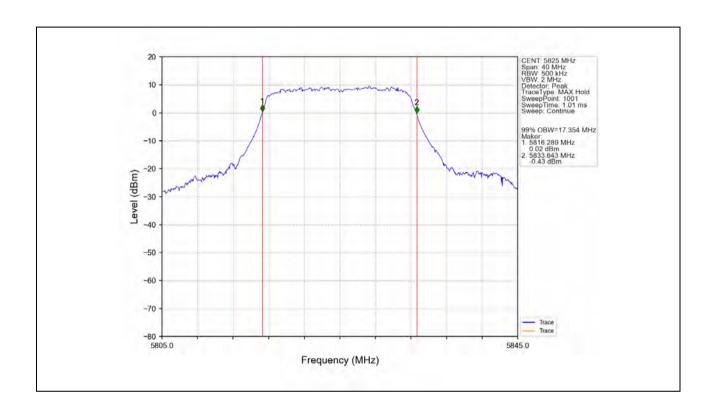
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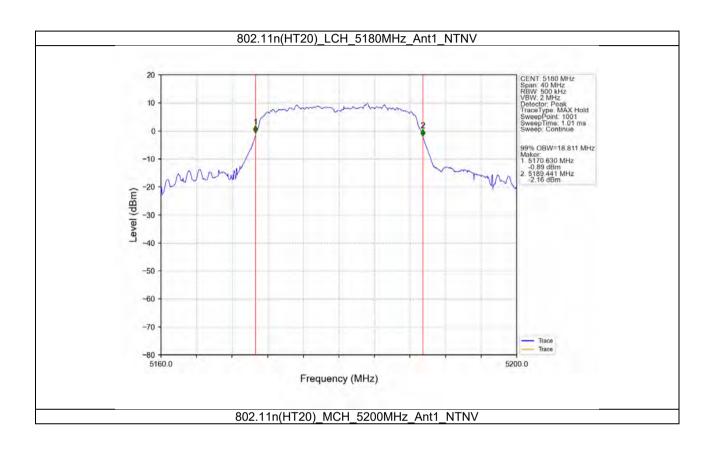
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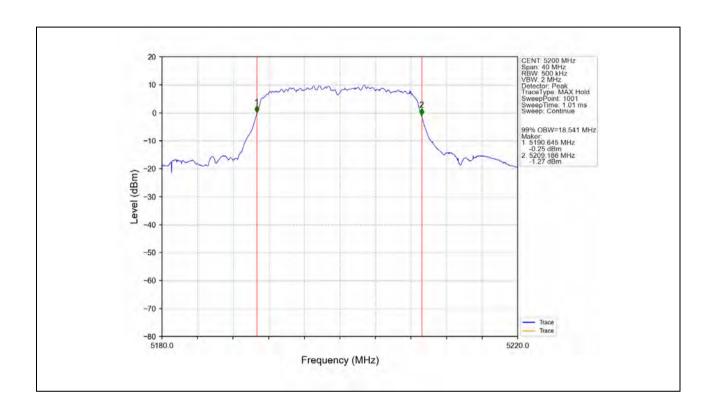
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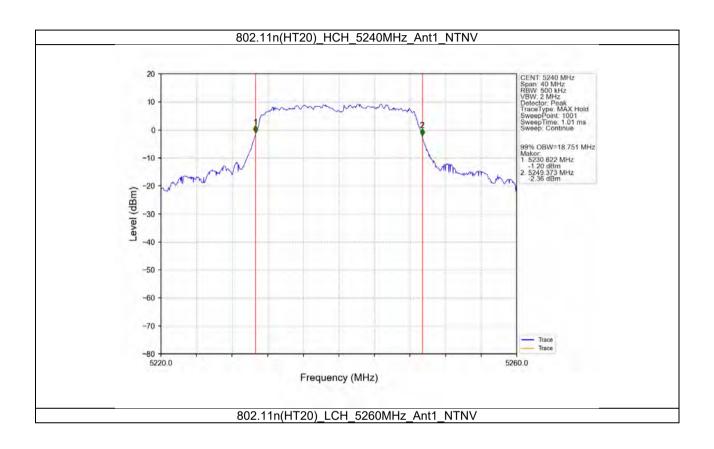
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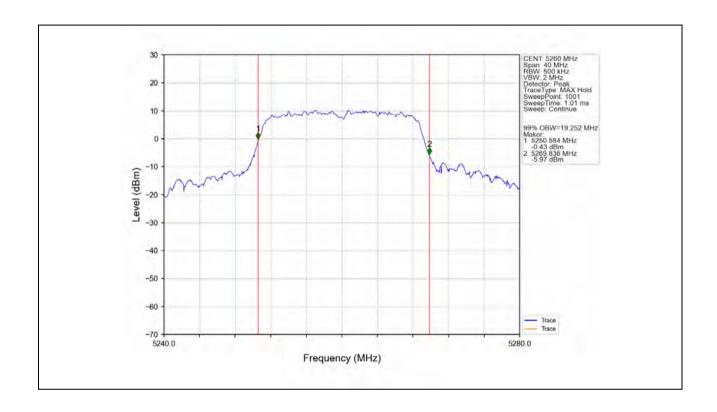
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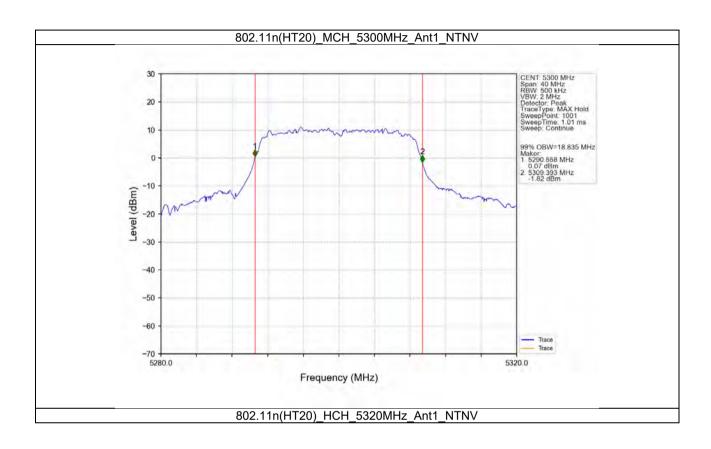
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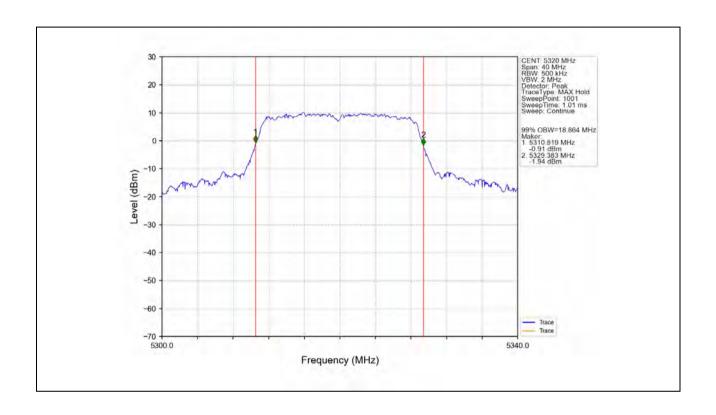
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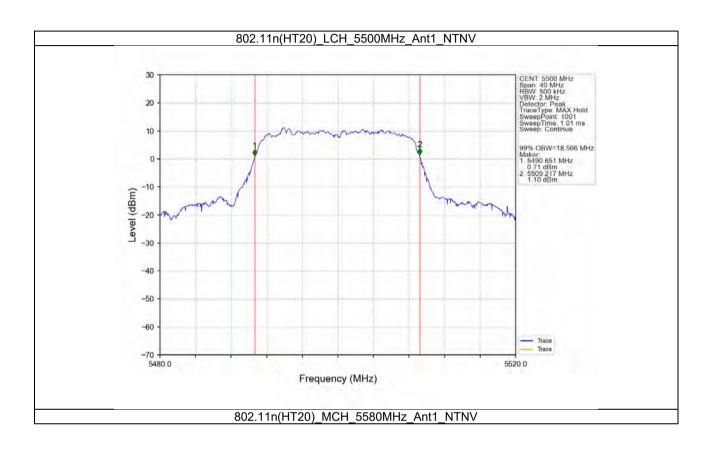
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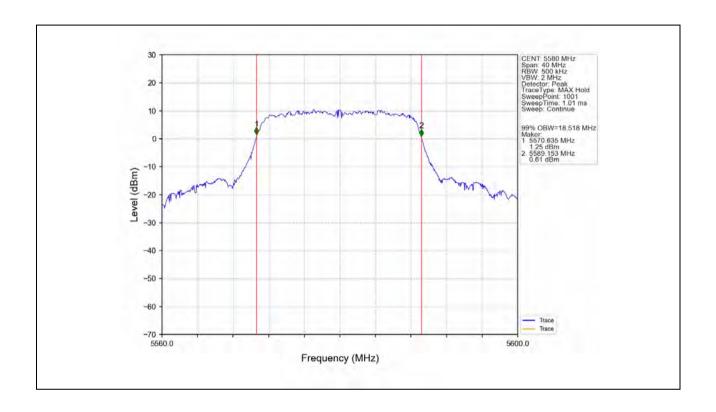
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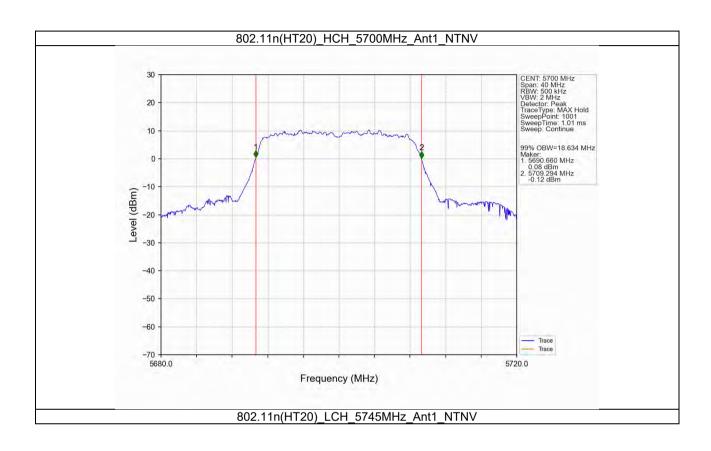
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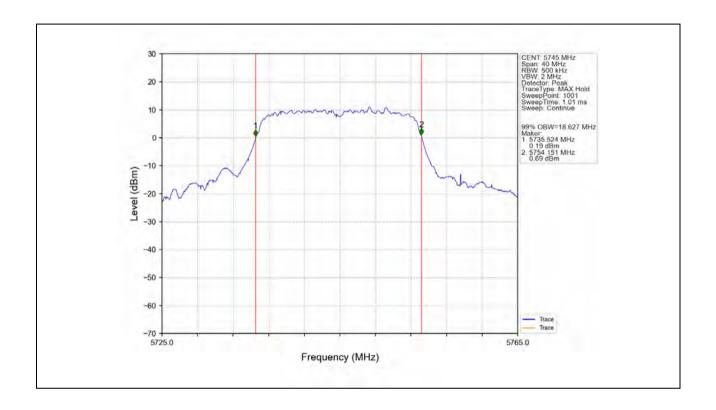
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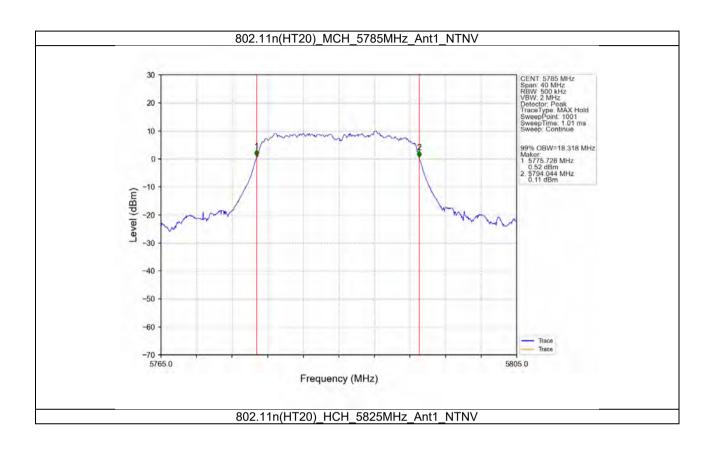
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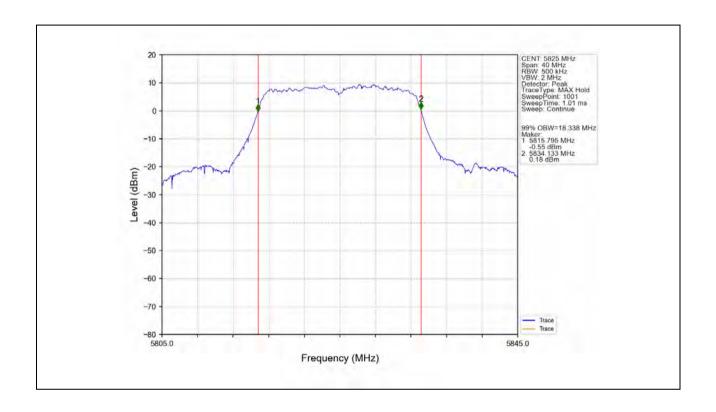
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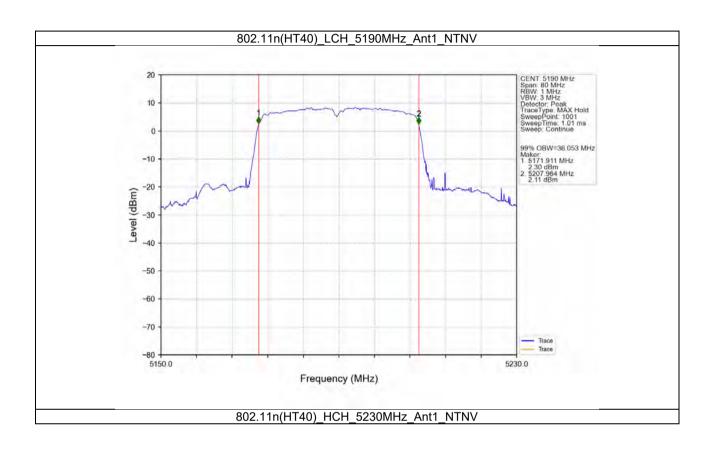
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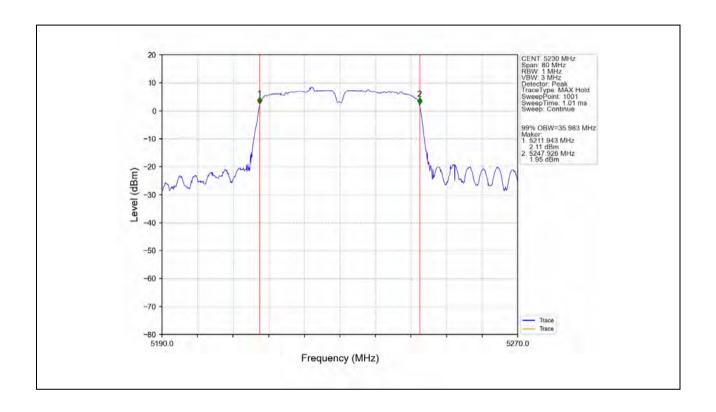
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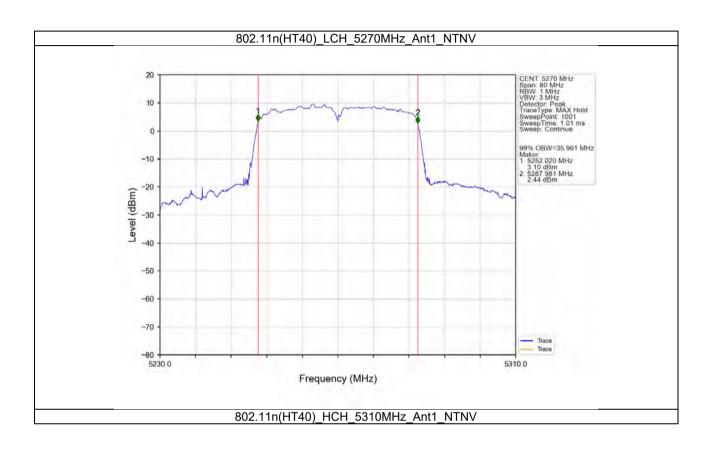
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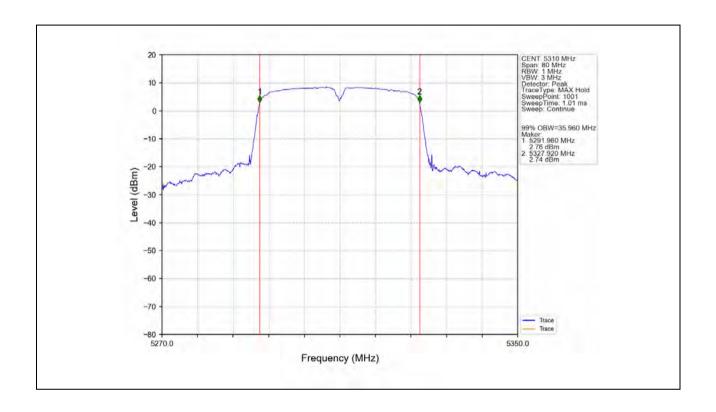
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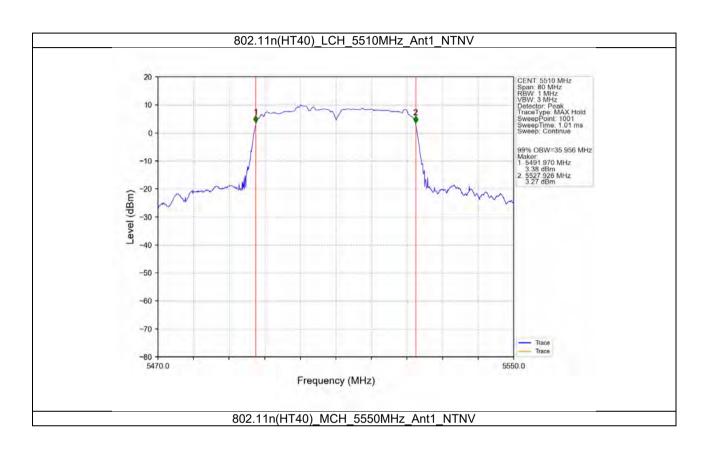
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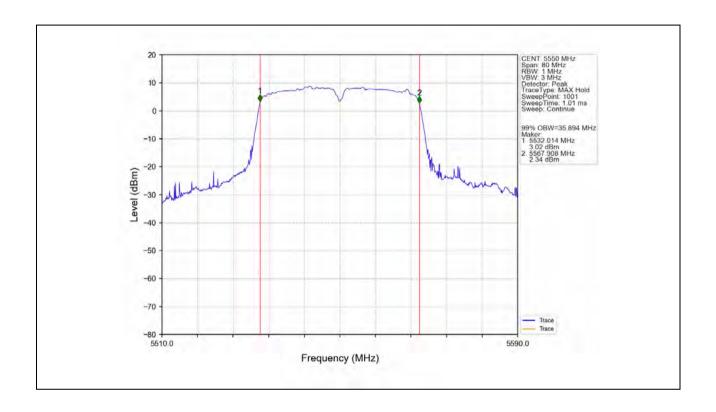
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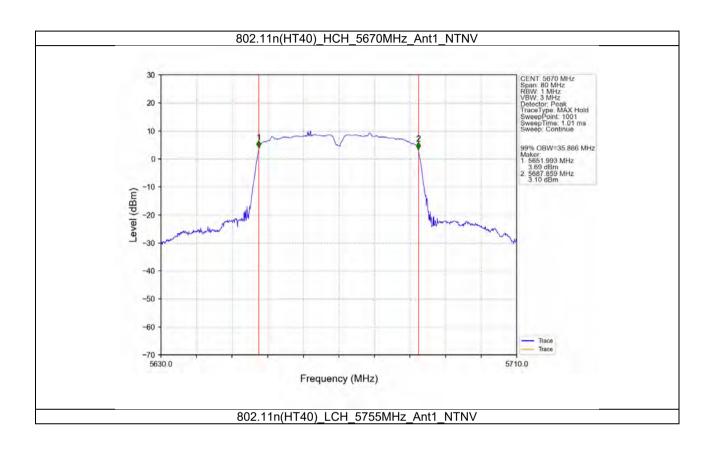
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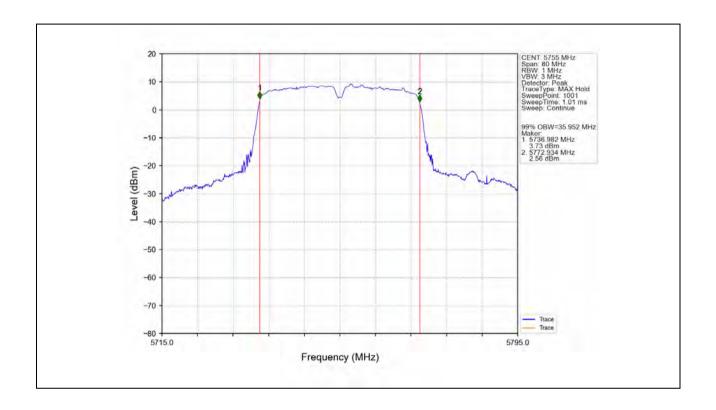
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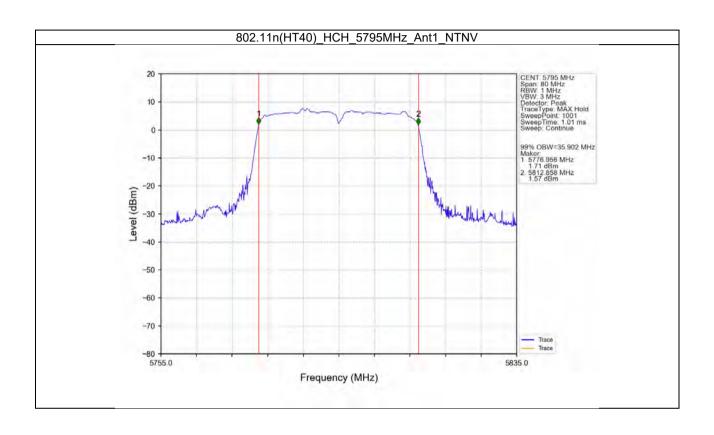
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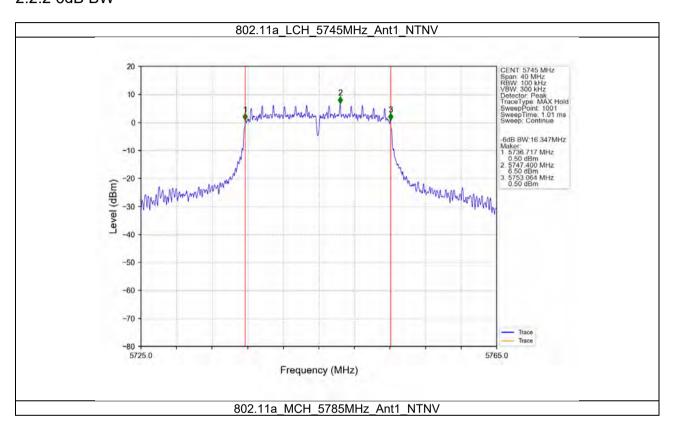


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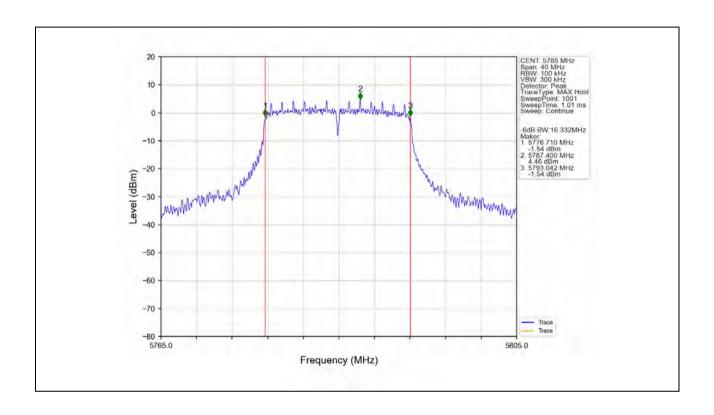
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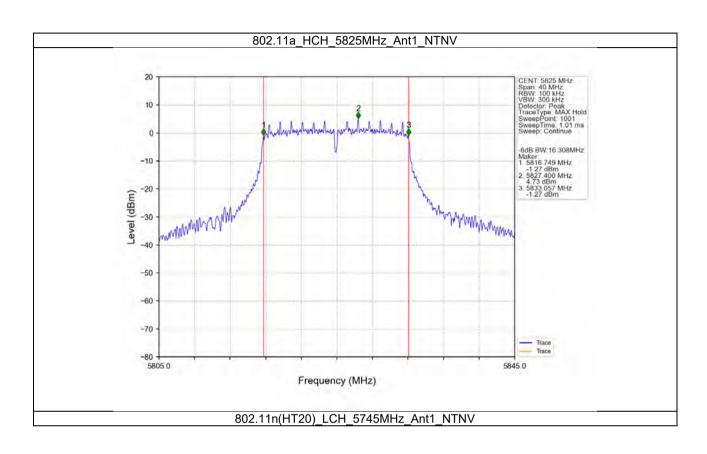
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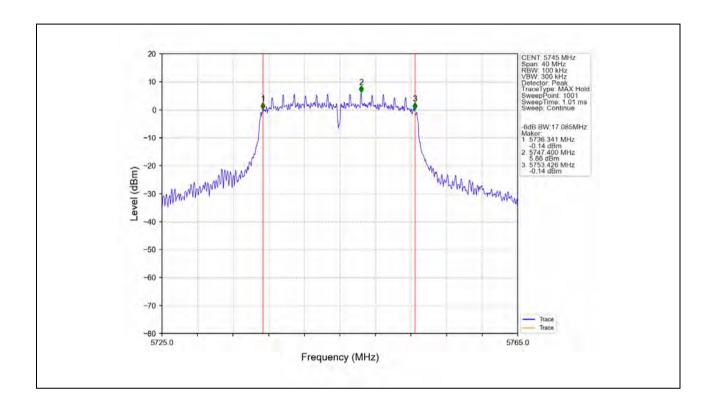
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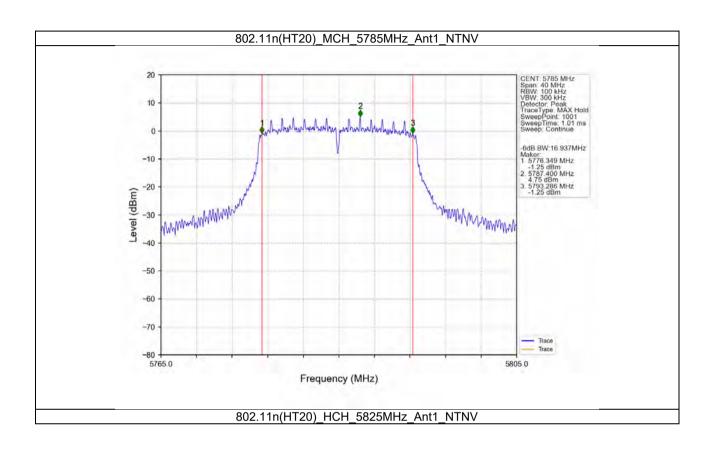
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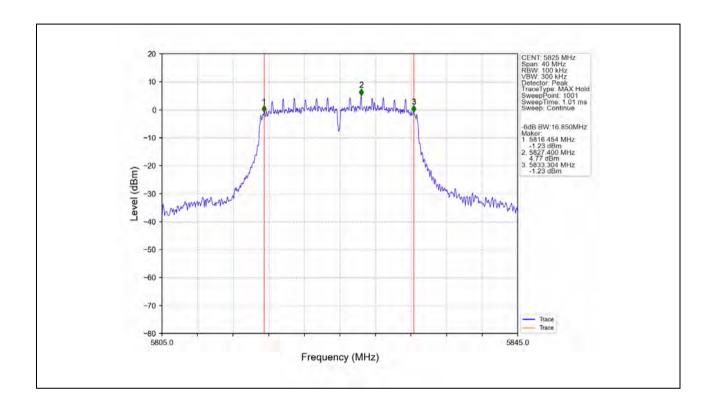
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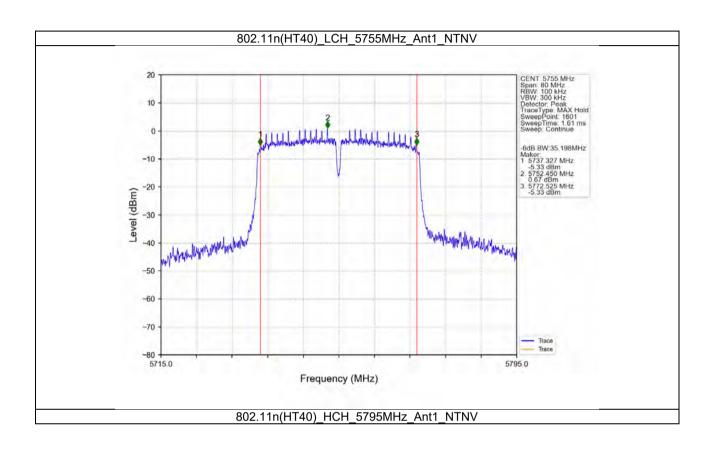
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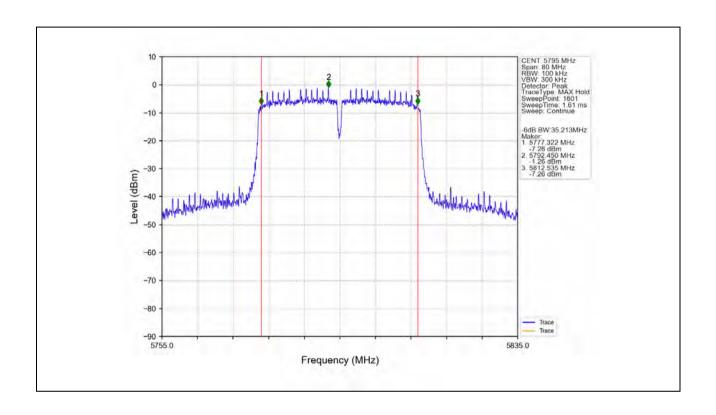
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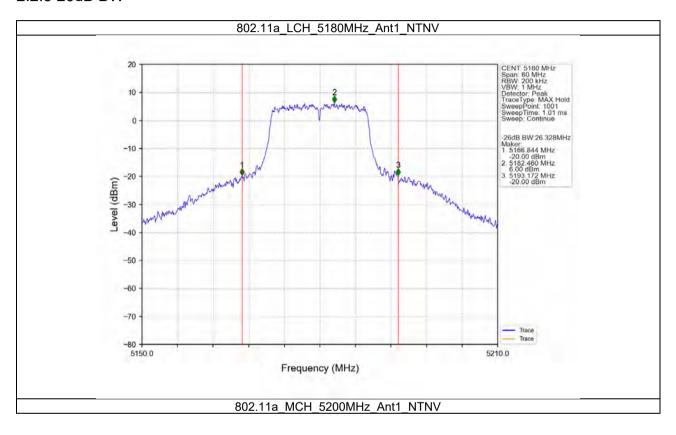


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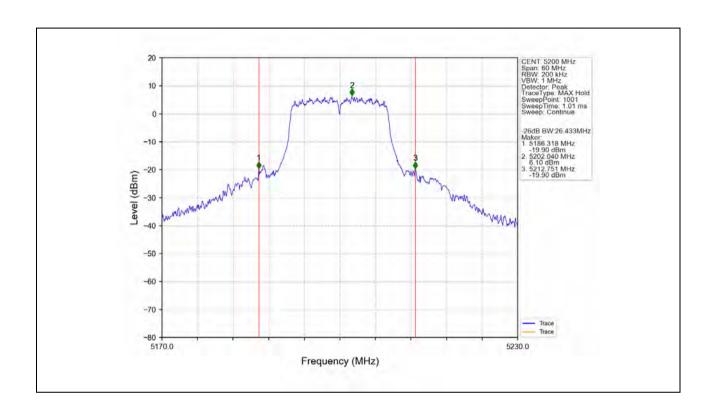
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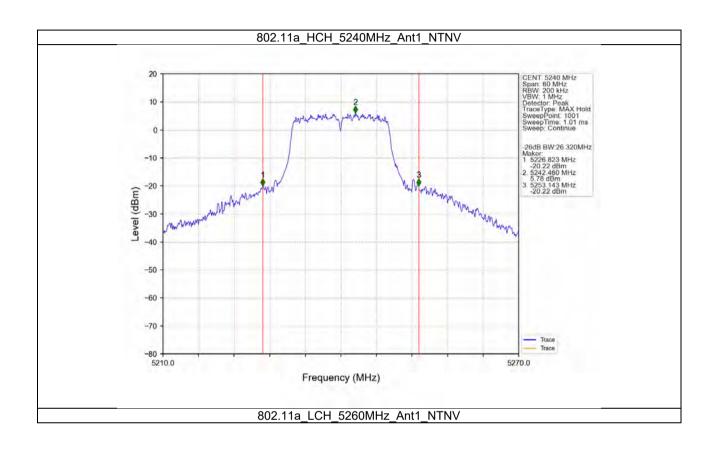
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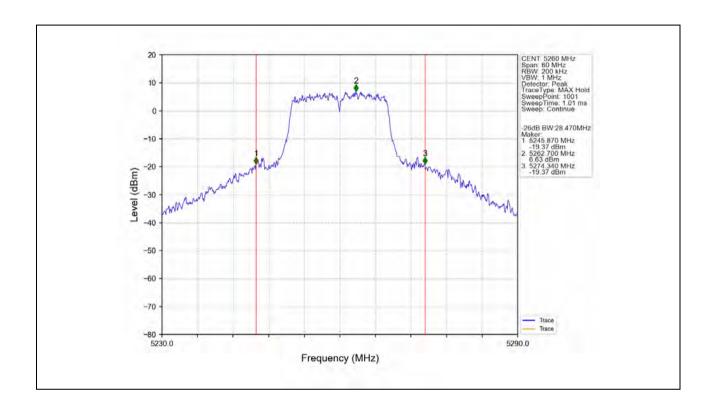
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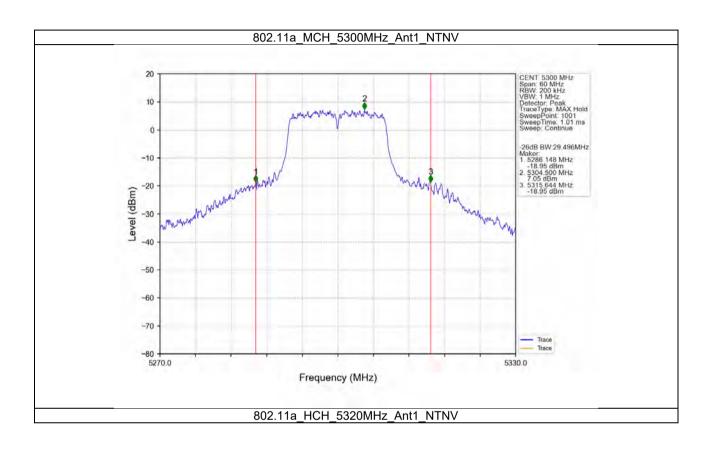
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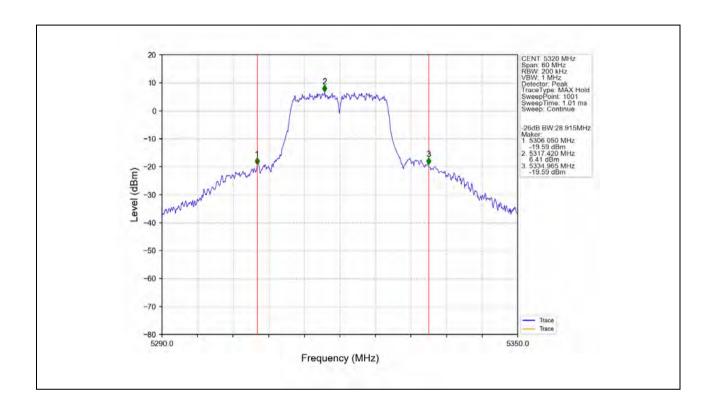
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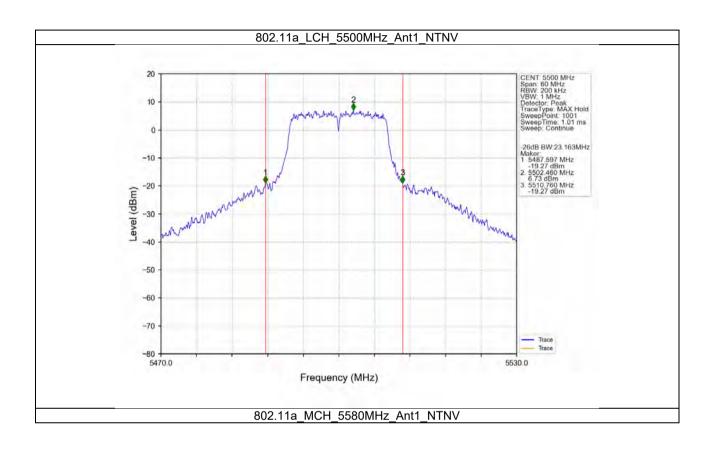
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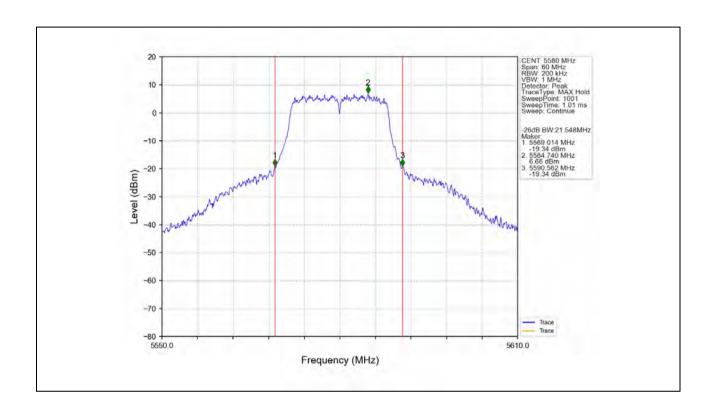
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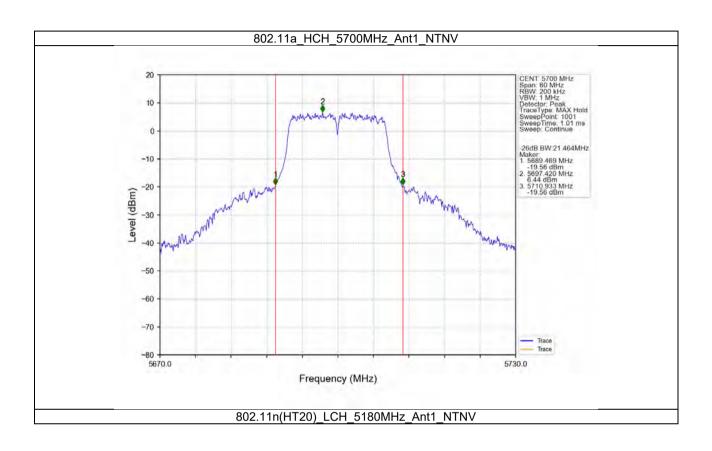
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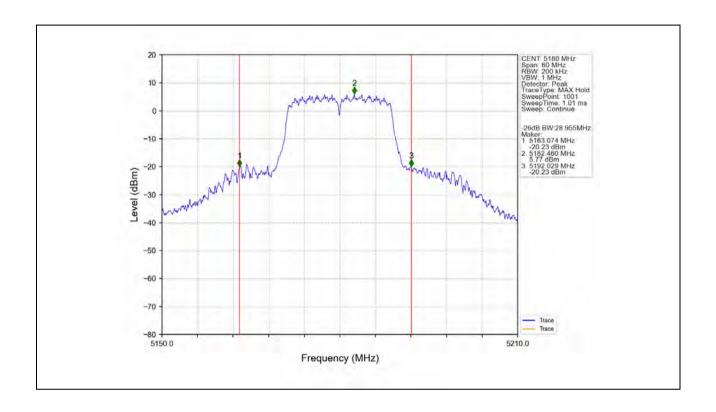
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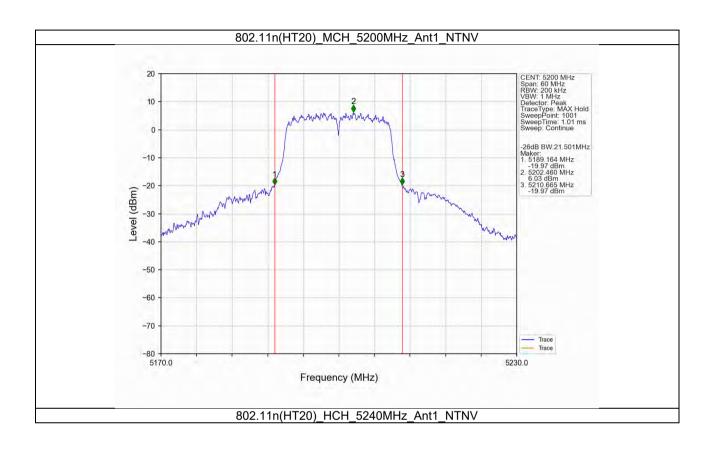
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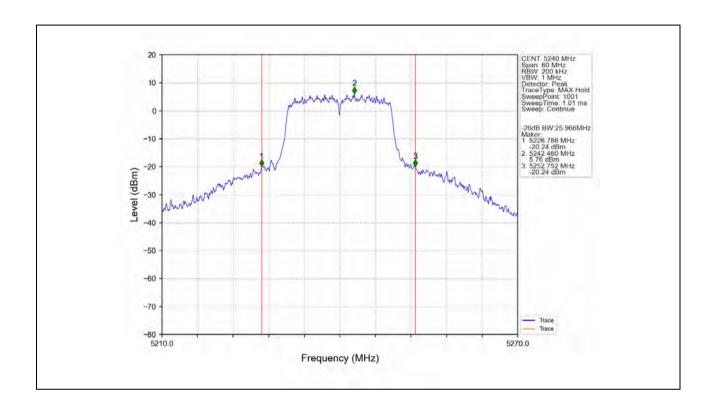
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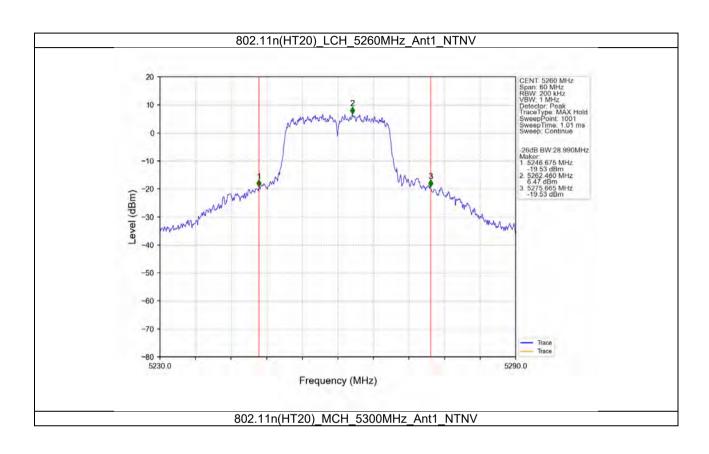
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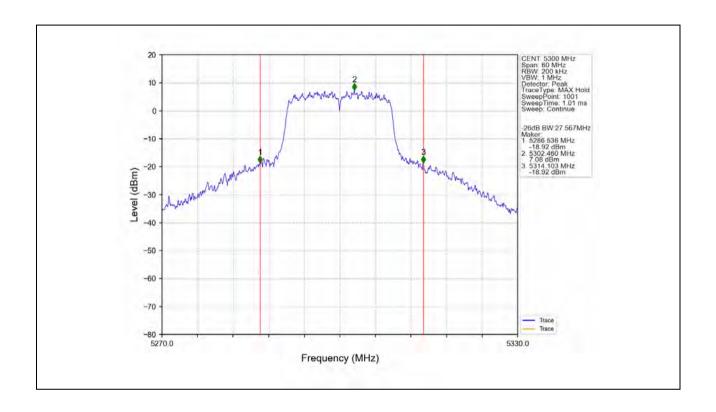
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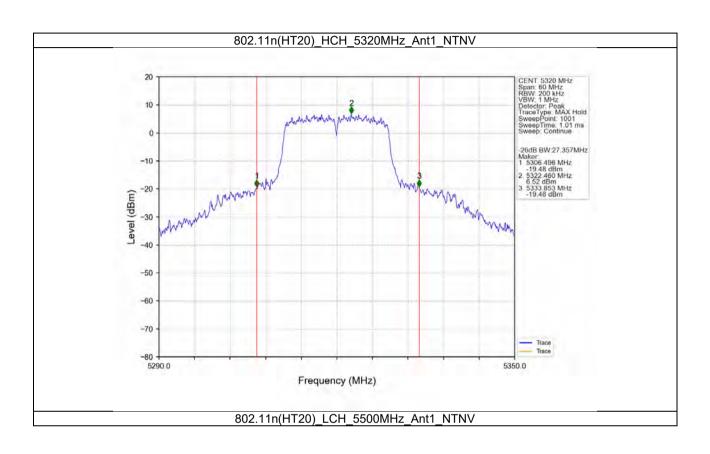
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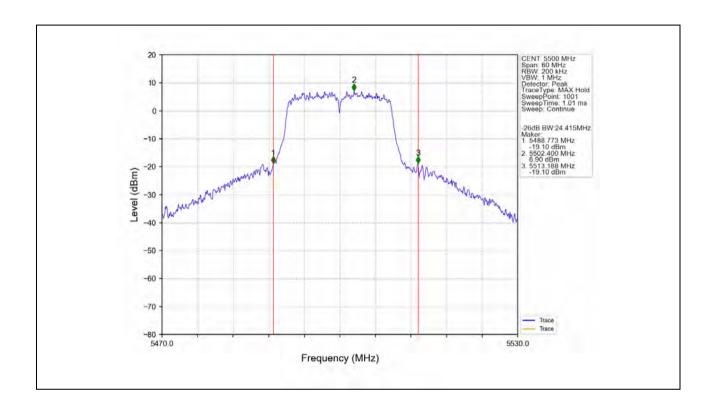
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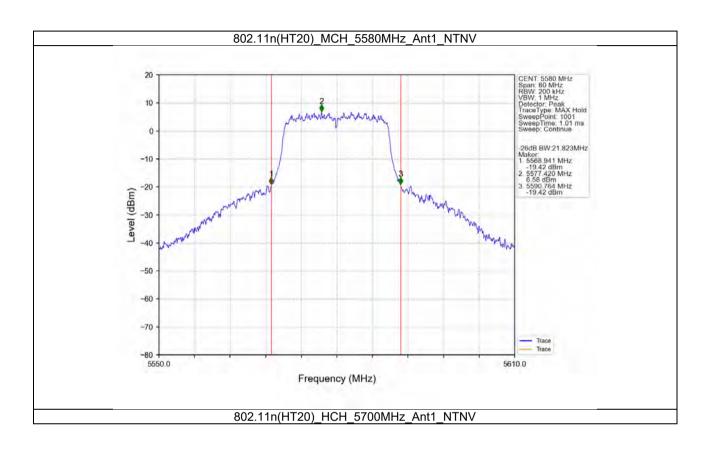
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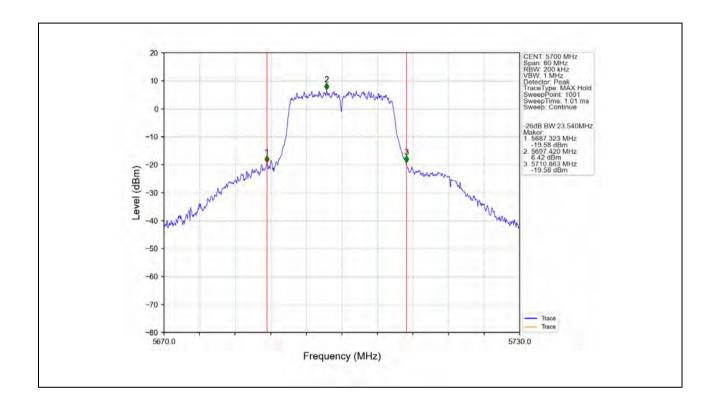
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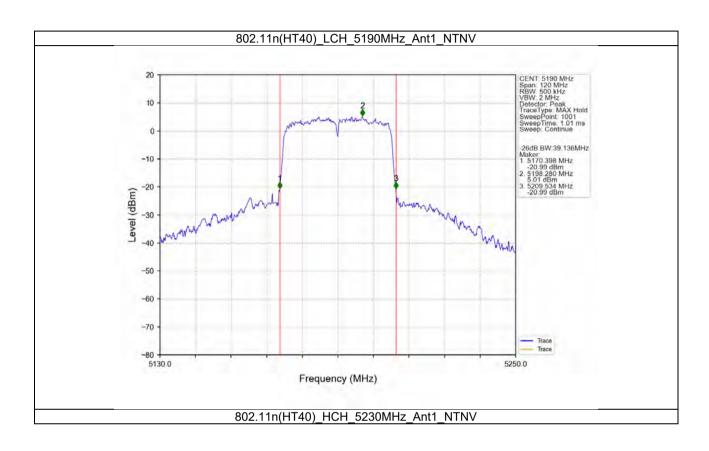
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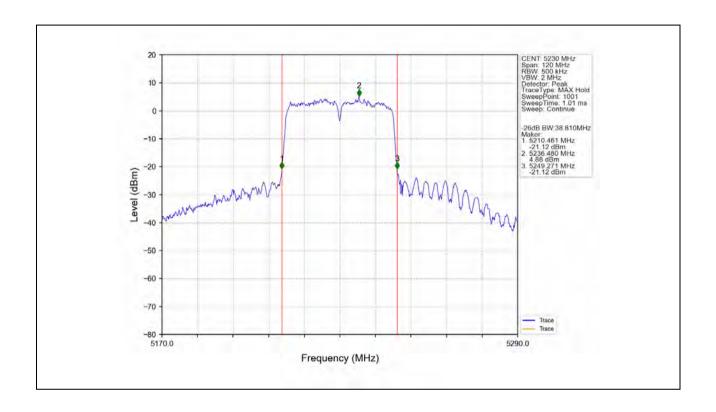
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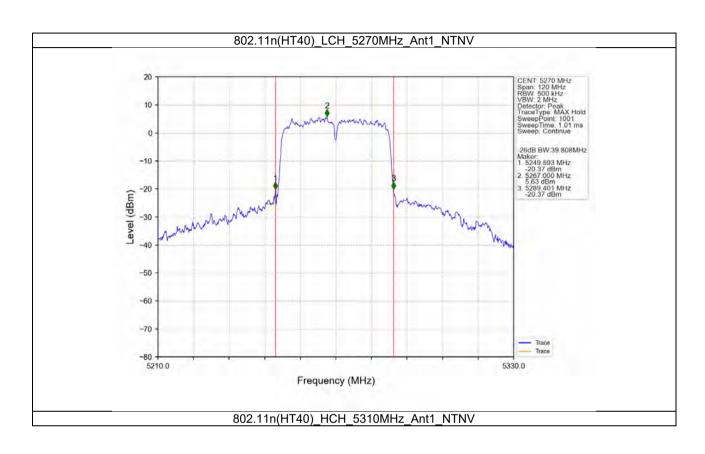
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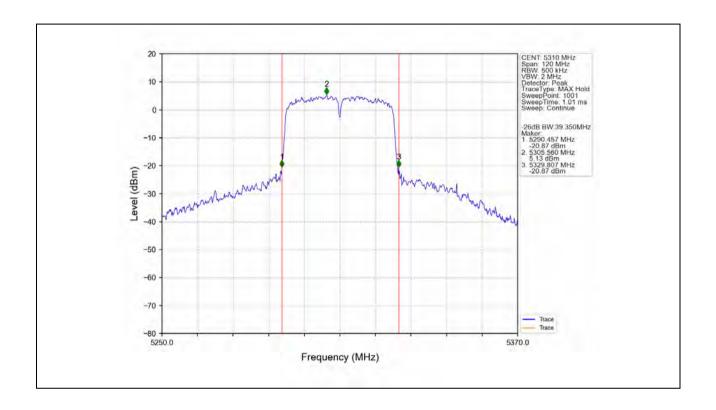
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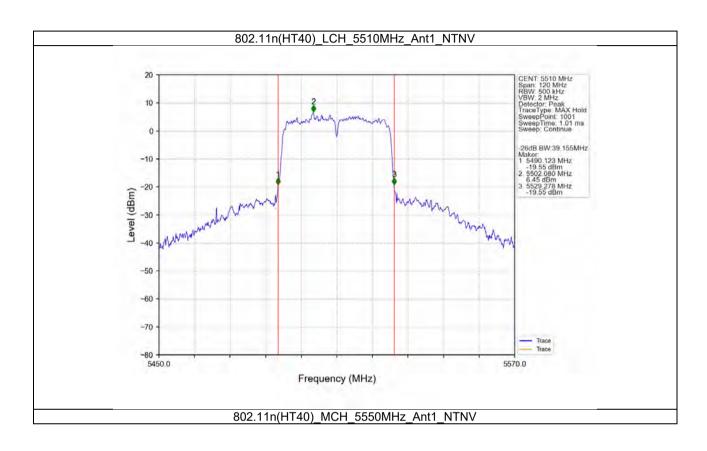
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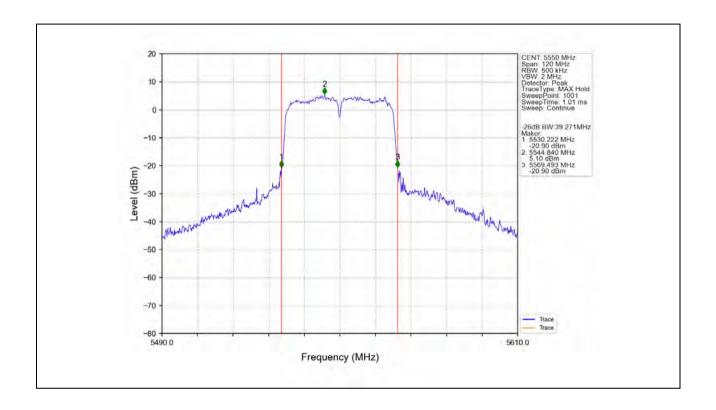
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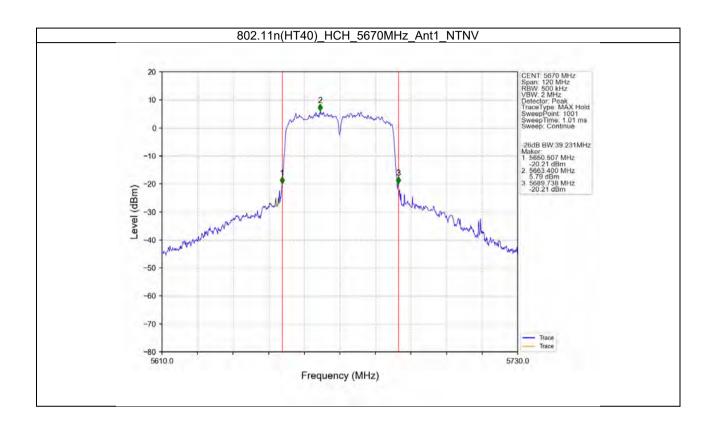
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3. Maximum Conducted Output Power

3.1 Test Result

3.1.1 Power

Mode	TX	Frequency	Maximum Average Conducted Output Power (dBm)		Verdict
Mode	Type	(MHz)	ANT1	Limit	Verdict
802.11a		5180	16.06	<=23.98	Pass
		5200	15.71	<=23.98	Pass
	SISO	5240	15.54	<=23.98	Pass
		5260	16.17	<=23.98	Pass
		5300	16.79	<=23.98	Pass
		5320	16.28	<=23.98	Pass
002.11a		5500	16.67	<=23.98	Pass
		5580	16.24	<=23.98	Pass
		5700	13.02	<=23.98	Pass
		5745	16.17	<=30	Pass
		5785	15.34	<=30	Pass
		5825	15.41	<=30	Pass
	SISO	5180	14.49	<=23.98	Pass
		5200	15.61	<=23.98	Pass
		5240	15.42	<=23.98	Pass
		5260	16.17	<=23.98	Pass
		5300	16.63	<=23.98	Pass
802.11n		5320	16.29	<=23.98	Pass
(HT20)		5500	16.61	<=23.98	Pass
		5580	16.32	<=23.98	Pass
		5700	12.89	<=23.98	Pass
		5745	16.49	<=30	Pass
		5785	15.44	<=30	Pass
		5825	15.31	<=30	Pass
	SISO	5190	12.04	<=23.98	Pass
		5230	13.02	<=23.98	Pass
802.11n (HT40)		5270	14.08	<=23.98	Pass
		5310	12.06	<=23.98	Pass
		5510	14.27	<=23.98	Pass
		5550	13.75	<=23.98	Pass
		5670	14.20	<=23.98	Pass
		5755	14.06	<=30	Pass
		5795	14.29	<=30	Pass
Note1: Antenn	a Gain: Ant1: 3	3.30dBi;			

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4. Maximum Power Spectral Density

4.1 Test Result

4.1.1 PSD

Mode	TX	Frequency	Maximum PSD (dBm/MHz)		Vardiat
	Type	(MHz)	ANT1	Limit	Verdict
	SISO	5180	5.42	<=11	Pass
		5200	5.28	<=11	Pass
		5240	4.84	<=11	Pass
		5260	5.56	<=11	Pass
802.11a		5300	6.20	<=11	Pass
		5320	5.54	<=11	Pass
		5500	5.93	<=11	Pass
		5580	5.58	<=11	Pass
		5700	5.90	<=11	Pass
	SISO	5180	4.66	<=11	Pass
		5200	4.82	<=11	Pass
		5240	4.59	<=11	Pass
000 11n		5260	5.42	<=11	Pass
802.11n		5300	5.80	<=11	Pass
(HT20)		5320	5.34	<=11	Pass
		5500	5.84	<=11	Pass
		5580	5.58	<=11	Pass
		5700	5.20	<=11	Pass
	SISO	5190	0.18	<=11	Pass
		5230	-0.82	<=11	Pass
902 11n		5270	0.55	<=11	Pass
802.11n (HT40)		5310	0.40	<=11	Pass
(11140)		5510	0.66	<=11	Pass
		5550	0.08	<=11	Pass
		5670	0.57	<=11	Pass

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4.1.2 PSD-Band3

Mode	TX	Frequency	Maximum PSD (dBm/500kHz)		Verdict		
	Type	(MHz)	ANT1	Limit	verdict		
802.11a	SISO	5745	3.53	<=30	Pass		
		5785	1.72	<=30	Pass		
		5825	1.92	<=30	Pass		
802.11n (HT20)	SISO	5745	2.76	<=30	Pass		
		5785	1.74	<=30	Pass		
		5825	1.50	<=30	Pass		
802.11n (HT40)	SISO	5755	-2.23	<=30	Pass		
		5795	-4.36	<=30	Pass		
Note1: Antenna Gain: Ant1: 3.30dBi;							

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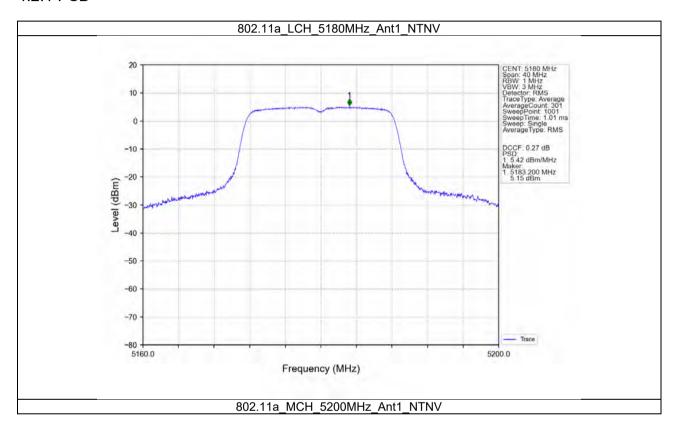
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4.2 Test Graph

4.2.1 PSD



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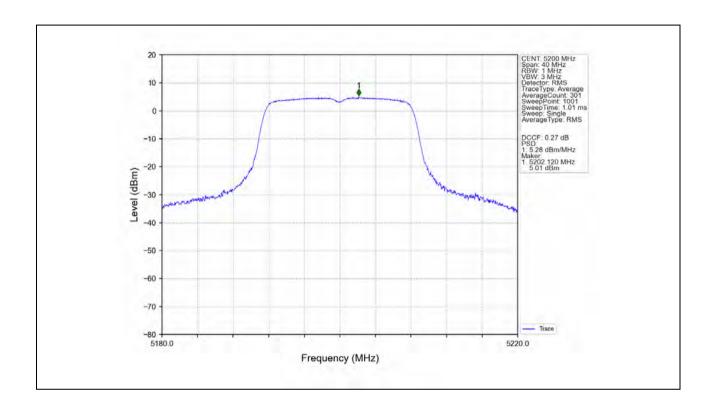
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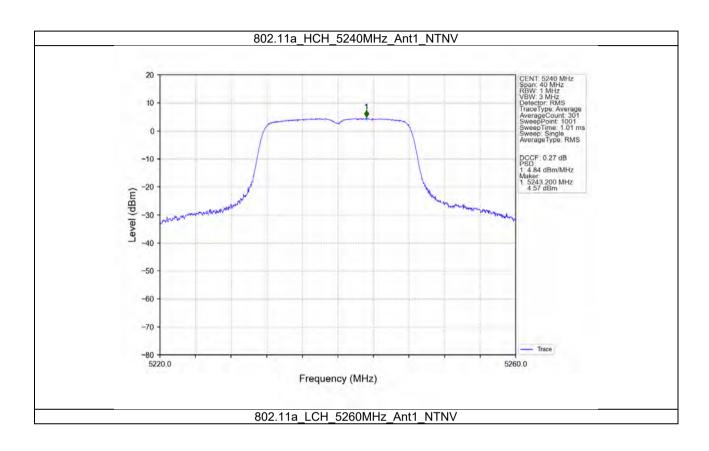
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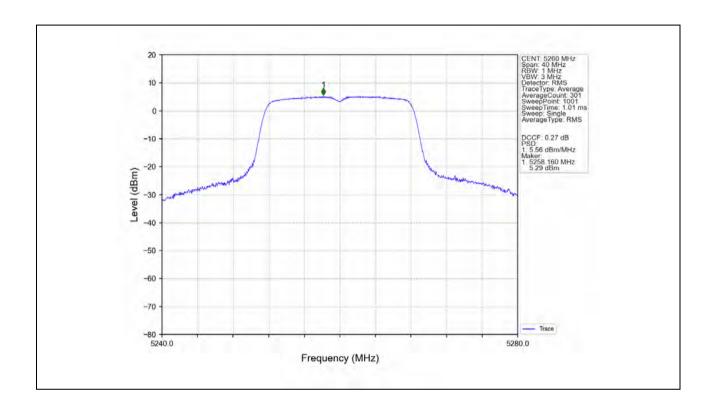
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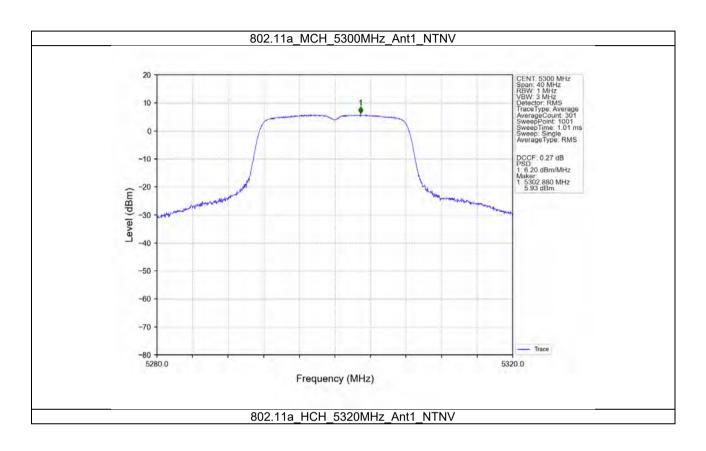
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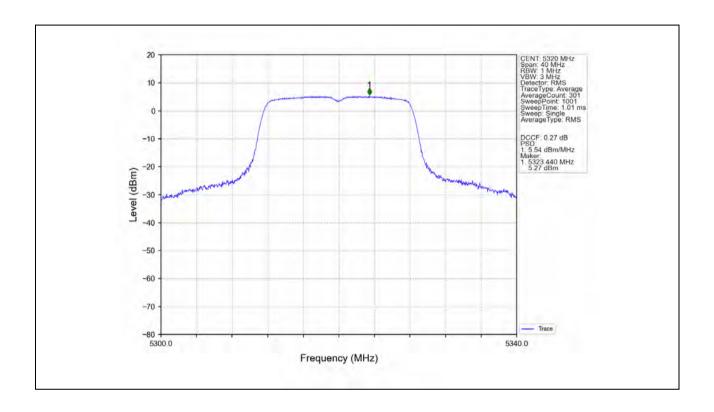
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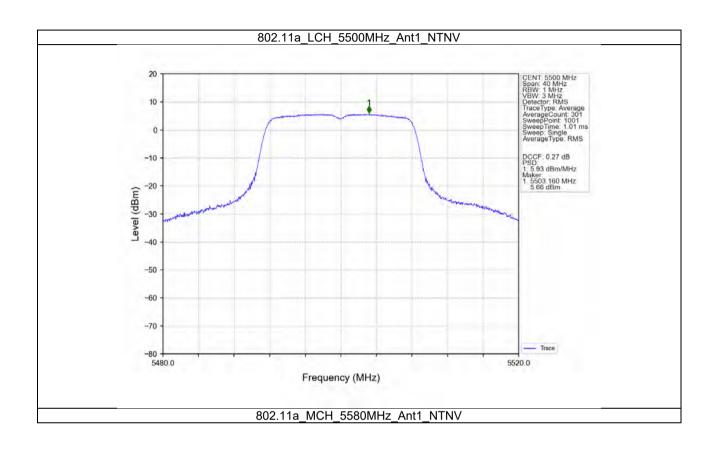
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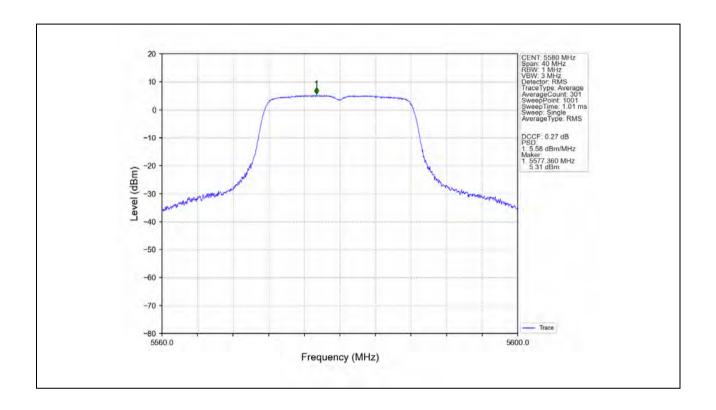
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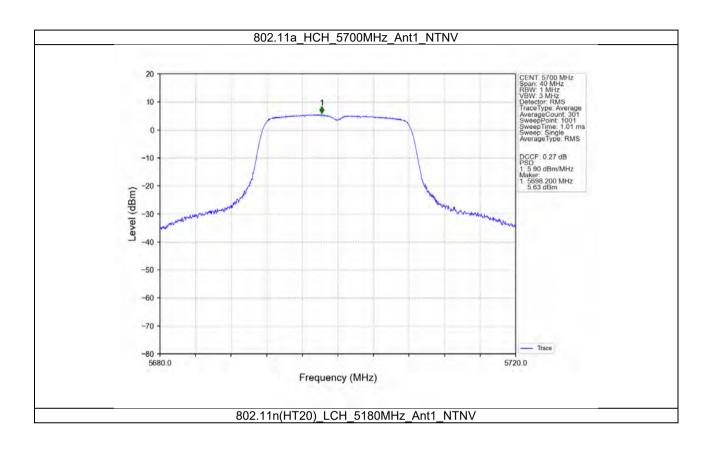
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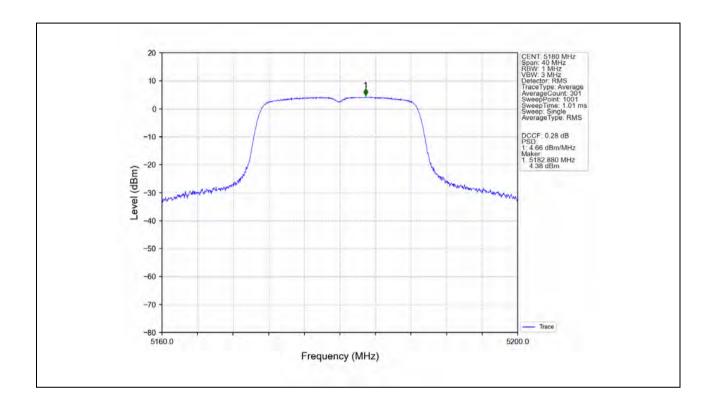
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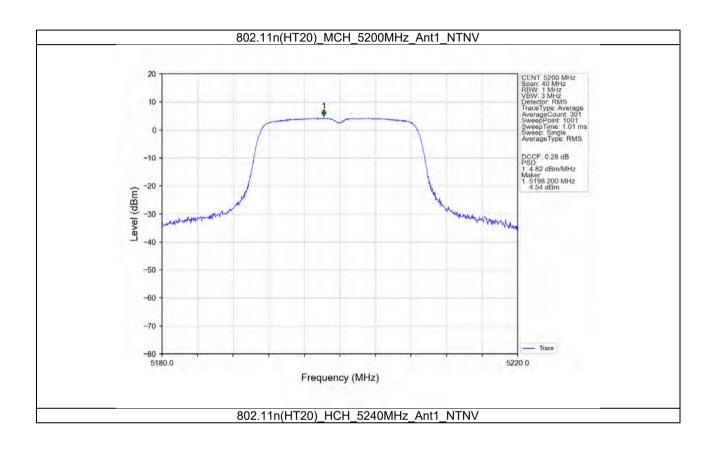
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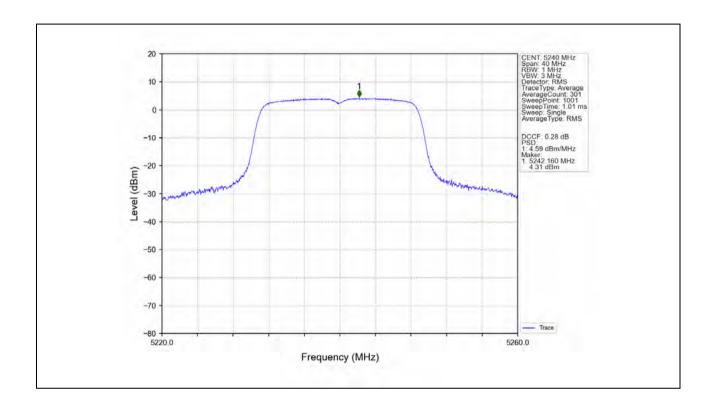
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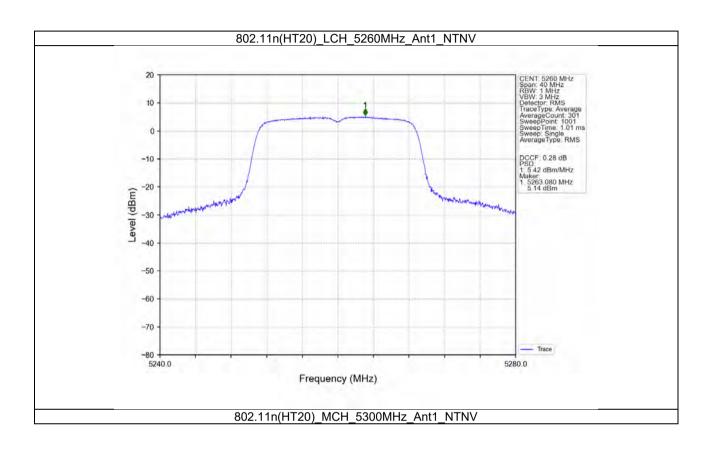
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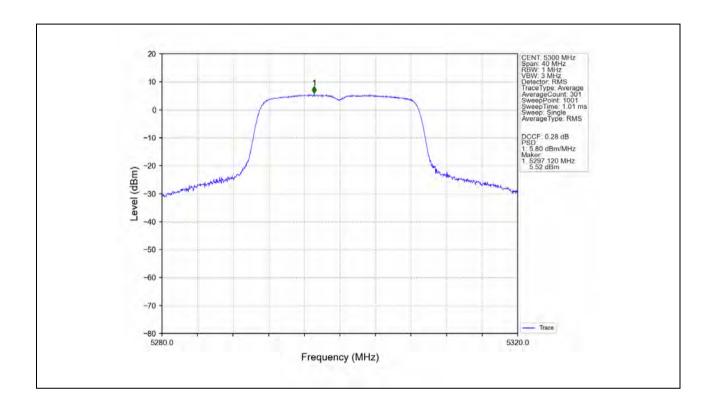
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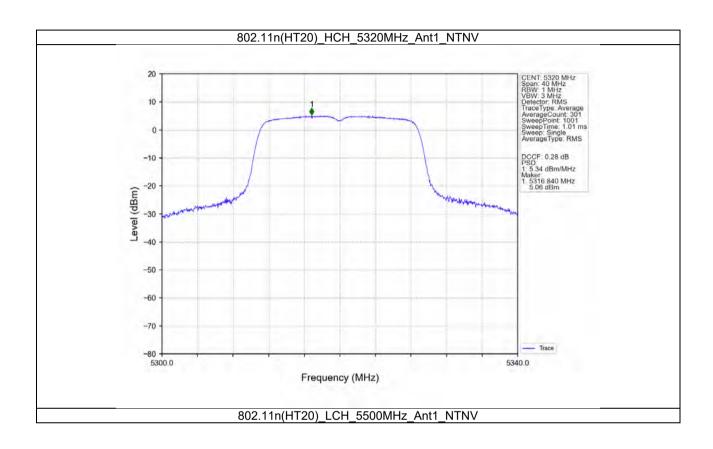
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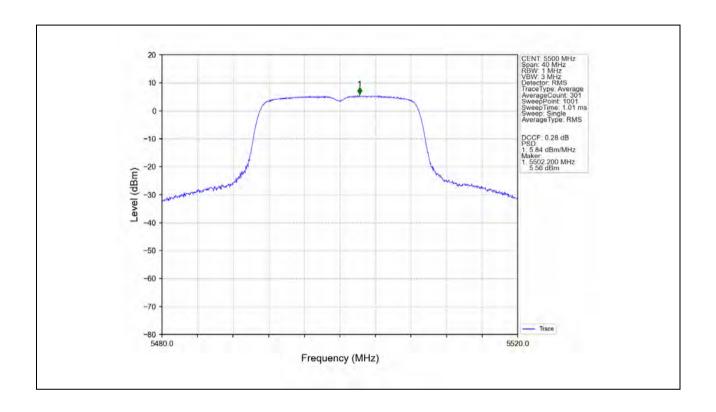
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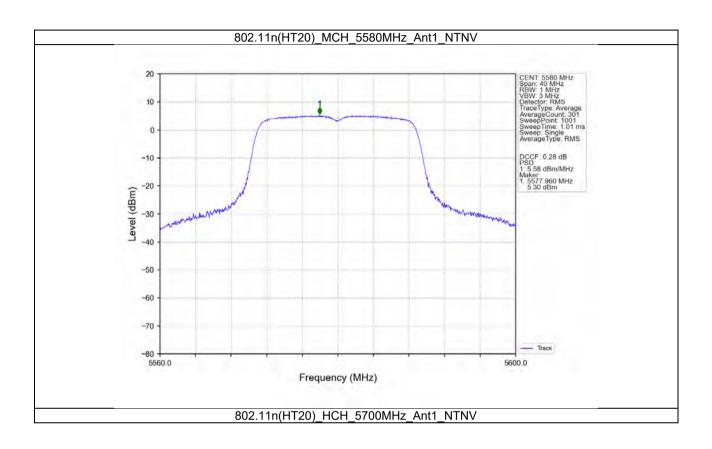
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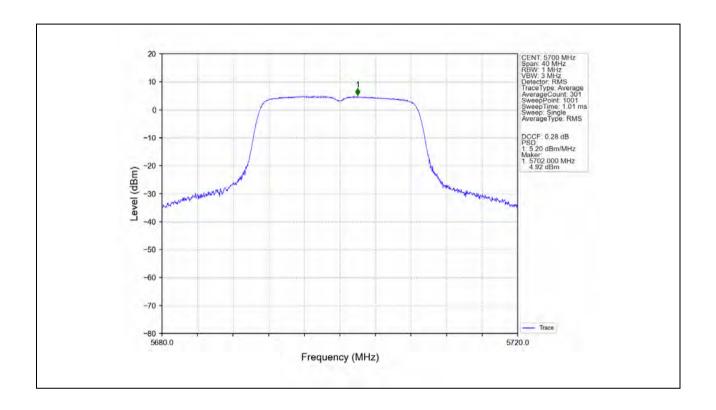
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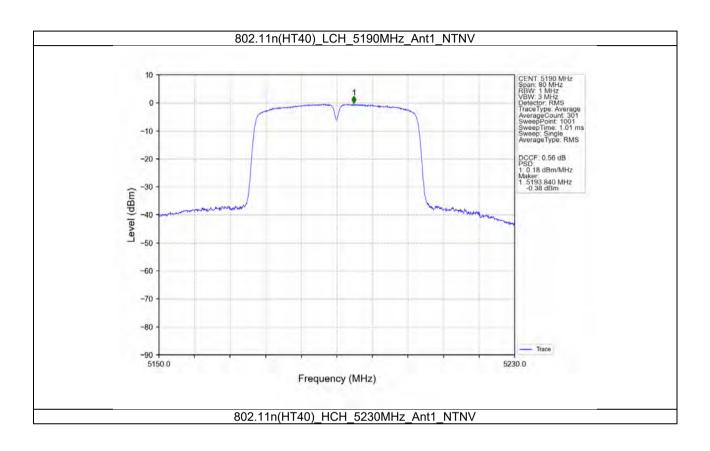
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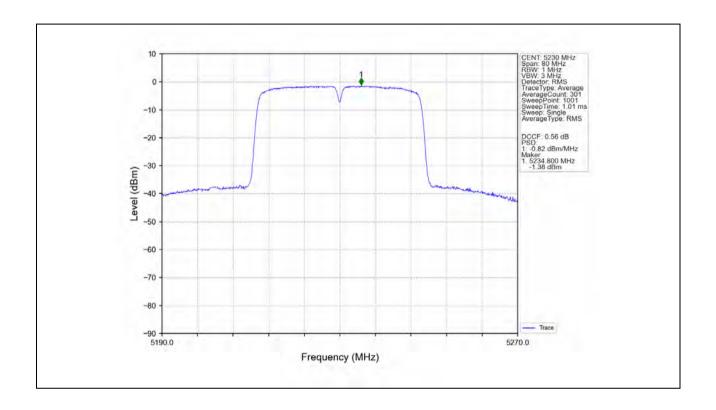
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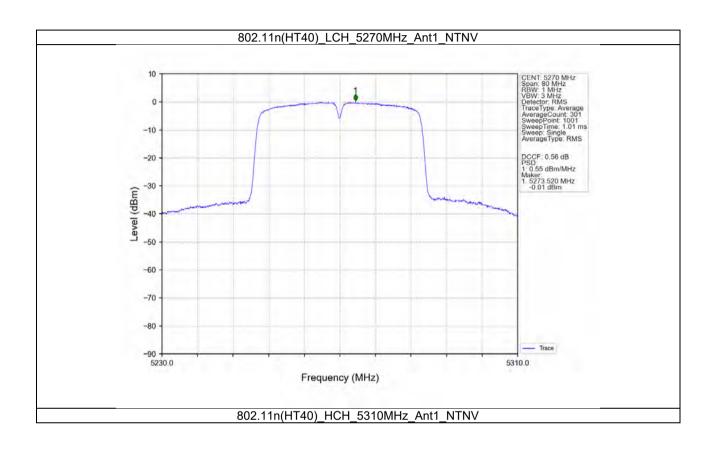
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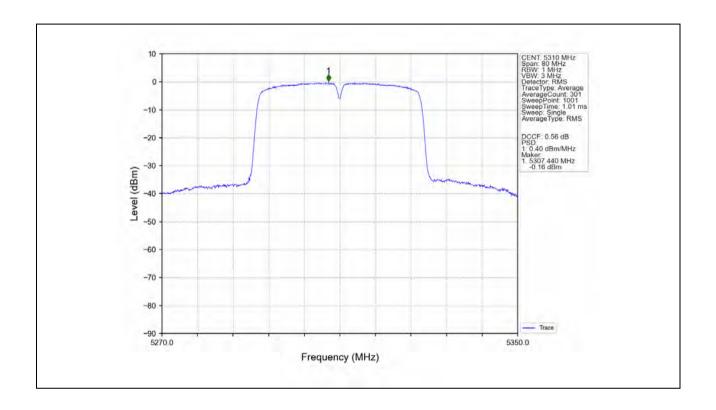
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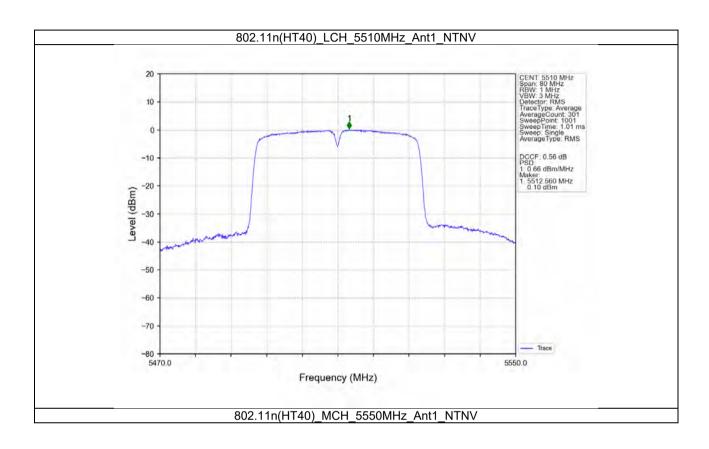
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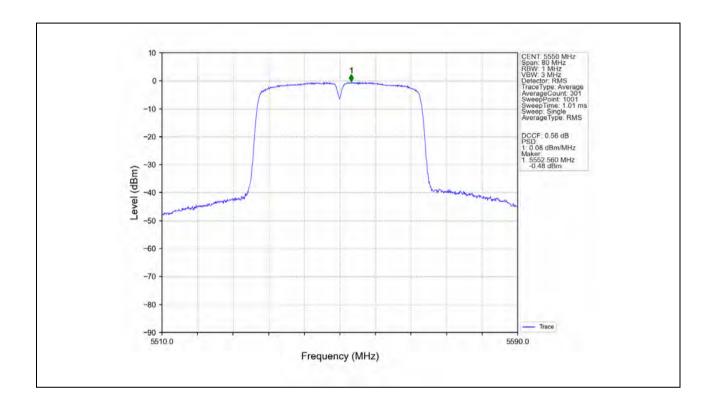
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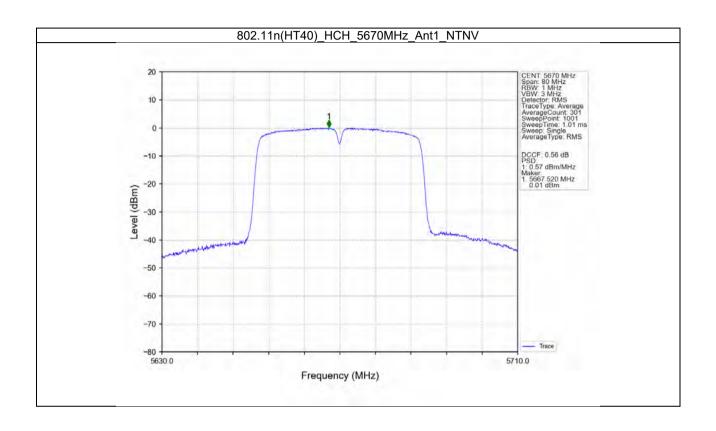
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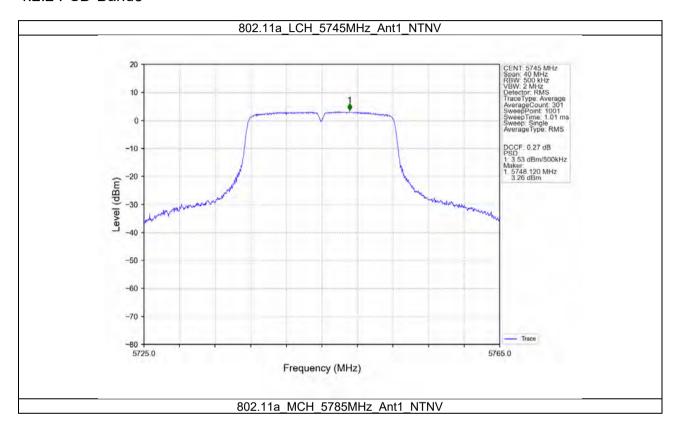


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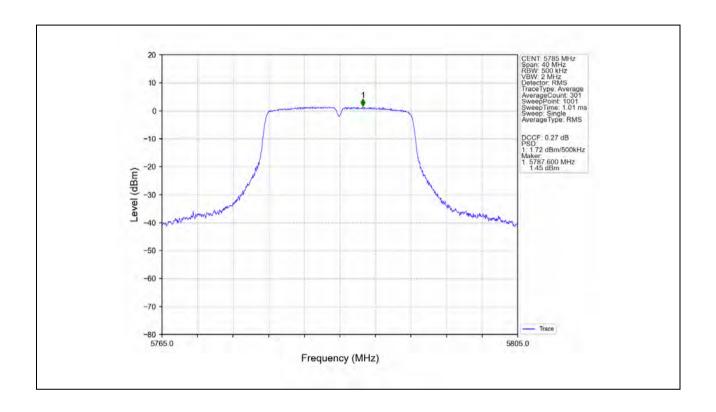
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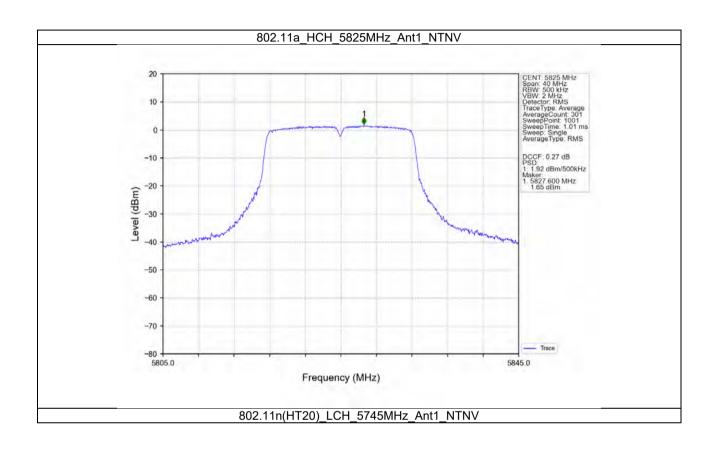
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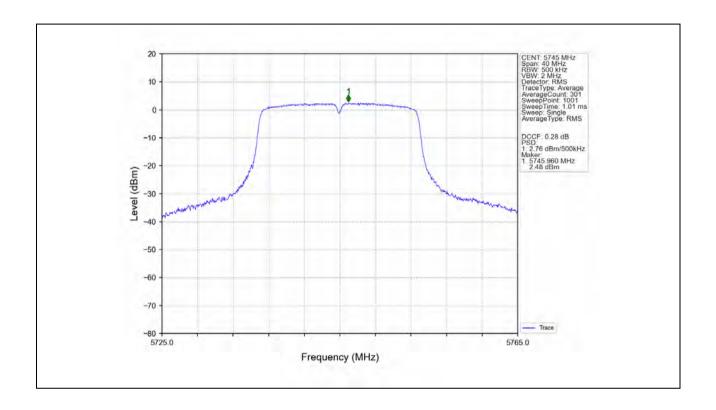
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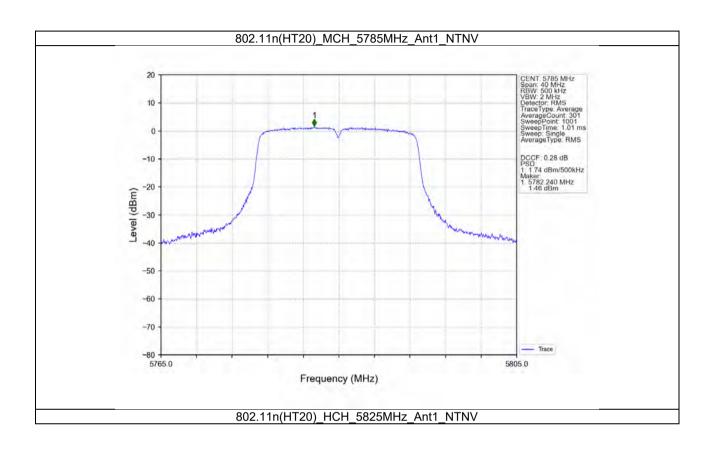
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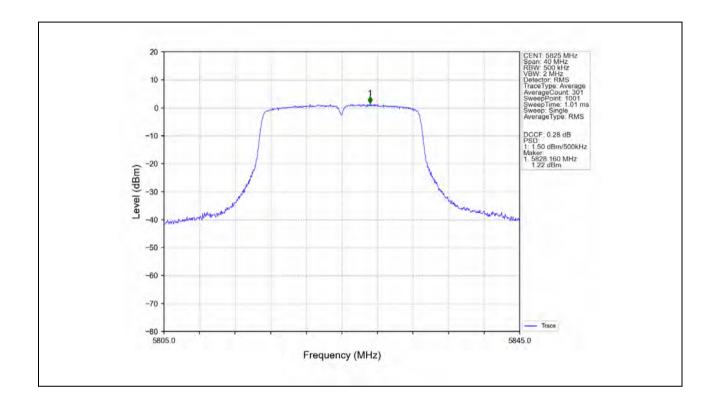
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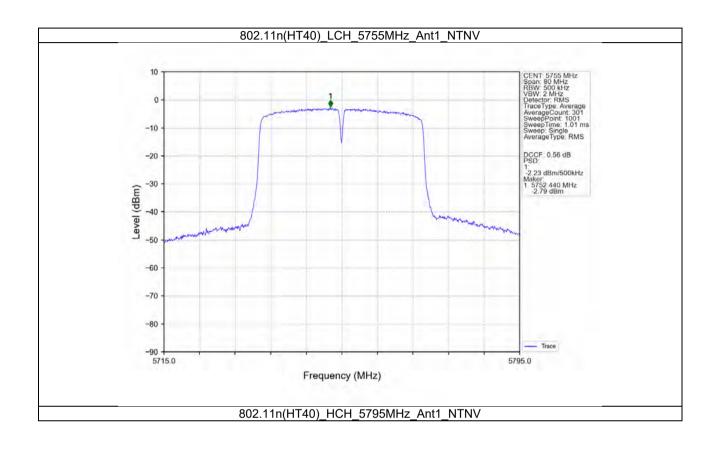
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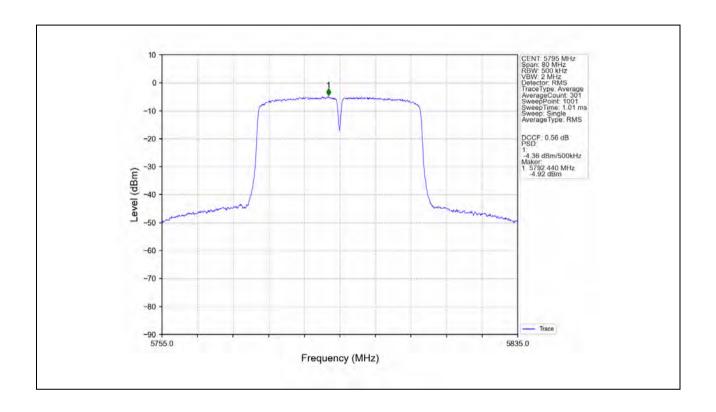
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