

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300075306

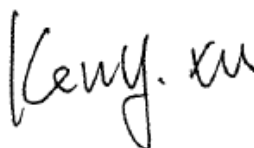
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TEST REPORT

Application No.: SZCR2603000753TL
Applicant: Grandstream Networks, Inc.
Address of Applicant: 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
Manufacturer: Grandstream Networks, Inc.
Address of Manufacturer: 126 Brookline Ave., 3rd Floor Boston, MA 02215, USA
Equipment Under Test (EUT):
EUT Name: Wall-Mounted Dual-Band Wi-Fi 7 Access Point
Model No.: GWN7671
Trade Mark: GRANDSTREAM
FCC ID: YZZGWN7671
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2026-03-02
Date of Test: 2026-03-05 to 2026-04-21
Date of Issue: 2026-04-28

Test Result:	Pass*
---------------------	--------------

* In the configuration tested, the EUT complied with the standards specified above.


Keny Xu
EMC Laboratory Manager



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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-04-28		Original

Authorized for issue by:				
		Byron Liang		
		Byron Liang/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart E 15.407	N/A	47 CFR Part 15, Subpart C 15.203	Pass
Transmission in the Absence of Data		N/A	47 CFR Part 15, Subpart E 15.407 (c)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2020) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions (Above 1GHz)		ANSI C63.10 (2020) Section 6.6 & 12.7	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Radiated Emissions which fall in the restricted bands		ANSI C63.10 (2020) Section 6.10.5 & 12.7.2	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Duty Cycle		ANSI C63.10 (2020) Section 12.2	ANSI C63.10 (2020) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2020) Section 12.5.3	ANSI C63.10 (2020) Section 12.5.3	Pass
26dB Emission Bandwidth		ANSI C63.10 (2020) Section 12.5.2	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Minimum 6 dB Bandwidth (5.850-5.895 GHz)		ANSI C63.10 (2020) Section 12.5.1	47 CFR Part 15, Subpart E 15.407 (e)	Pass
Maximum Conducted Output Power		ANSI C63.10 (2020) Section 12.4	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Power Spectral Density		ANSI C63.10 (2020) Section 12.6	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Frequency Stability		ANSI C63.10 (2020) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	Powered by POE DC48V
Cable Loss (for RF conducted test):	1.5dB
Operation Frequency/Number of channels (20MHz):	U-NII-4: 5845-5885MHz (3 Channels)
Operation Frequency/Number of channels/(40MHz):	U-NII-4: 5835-5875MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	U-NII-4: 5855MHz (1 Channel)
Operation Frequency/Number of channels (160MHz):	5815MHz (1 Channel)
Modulation Type:	802.11a: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM); 802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM); 802.11be: OFDMA with enhancements (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024-QAM, 4096-QAM)
Channel Spacing:	802.11a/n/ac/ax/be 20: 20MHz; 802.11n/ac/ax/be 40: 40MHz; 802.11ac/ax/be 80: 80MHz; 802.11ac/ax/be 160: 320MHz
DFS Function:	Master
TPC Function:	Support TPC function
Antenna Type:	PIFA Antenna(ANT1/2)&PCB ANT(ANT3)
Antenna Gain:	Antenna 1: 5.42dBi and Antenna 2: 5.16dBi,Antenna 3:5.37dBi

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
Adapter	RISUNIC TECHNOLOGY SHENZHEN CO.,LTD.	GP-H480-065G	2308-0130053



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4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.2\text{dB}$
Radiated Emissions (Below 1GHz)	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions (Above 1GHz)	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (below 1GHz); $\pm 4.6\text{dB}$ (above 1GHz);
Duty Cycle	$\pm 0.3\%$
99% Bandwidth	$\pm 0.3\%$
Minimum 6 dB Bandwidth (5.850-5.895 GHz)	$\pm 0.3\%$
Maximum Conducted Output Power	$\pm 0.8\text{dB}$
Power Spectral Density	$\pm 0.4\text{dB}$
Frequency Stability	$\pm 5.4 \times 10^{-8}$
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (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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4.4 Test Location

All tests were performed at:

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

No tests were sub-contracted.

4.5 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 (Member No. 1937)

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. Shenzhen EMC laboratory 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: CN1336

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

Designation Number: CN1336. Test Firm Registration Number: 787754.

• 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.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2025-05-07	2028-05-06
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2025-12-15	2026-12-14
Matching Pad	N/A	N/A	SEM021-23	2025-03-21	2026-03-20
				2026-03-20	2027-03-19
Matching Pad	N/A	N/A	SEM021-24	2025-03-21	2026-03-20
				2026-03-20	2027-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2025-07-05	2026-07-04
LISN	Rohde&Schwarz	ENV216	SEM007-01	2025-07-25	2026-07-24
LISN	ETS-LINDGREN	3816/2	SEM007-02	2026-02-24	2027-02-23

Radiated Emissions (Below 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2026-02-02	2027-02-01
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04



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Radiated Emissions (Above 1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2026-02-02	2027-02-01
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-22	2027-07-21
Pre-Amplifier	TST PASS	LNA180400G40	SEM005-39	2025-05-22	2026-05-21

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2026-02-02	2027-02-01
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04



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RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2026-02-03	2027-02-02
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2025-09-10	2026-09-09
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2026-02-02	2027-02-01
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2026-02-03	2027-02-02
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2026-02-04	2027-02-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2026-02-04	2027-02-03
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2026-02-02	2027-02-01
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2026-02-02	2027-02-01
MXG Vector Signal Generator	Agilent	N5182A	SEM006-21	2026-02-03	2027-02-02
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2026-02-02	2027-02-01

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2026-02-14	2027-02-13



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna are Antenna 1: 5.42dBi and Antenna 2: 5.16dBi, Antenna 3: 5.37dBi.

Antenna location: Refer to internal photos

Cyclic Delay Diversity (CDD) System:

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

If all antennas have the same gain, G_{ANT} , Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

- For power spectral density (PSD) measurements on all devices,

$Array\ Gain = 10 \log(N_{ANT}/N_{SS}=1) \text{ dB}$.

- For power measurements on IEEE 802.11 devices:

$Array\ Gain = 0 \text{ dB}$ (i.e., no array gain) for $N_{ANT} \leq 4$;

For power, the directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain.

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The Power and PSD limit should be modified if the directional gain of eut is over 6dbi.

The EUT supports CDD System.

Unequal antenna gain:

Operation Frequency	ANT Gain1 (dBi)	ANT Gain2 (dBi)	ANT Gain3 (dBi)	Directional gain For Power (dBi)	Directional gain For PSD (dBi)	Power Limit Reduction (dBm)	PSD Limit Reduction (dBm)
5150MHz to 5250MHz	5.42	5.16	5.37	5.42	10.19	0	4.19

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5250MHz to 5350MHz	5.42	5.16	5.37	5.42	10.19	0	4.19
5470MHz to 5725MHz	5.42	5.16	5.37	5.42	10.19	0	4.19
5725MHz to 5850MHz	5.42	5.16	5.37	5.42	10.19	0	4.19
5850MHz to 5895MHz	5.42	5.16	5.37	5.42	10.19	0	4.19

5150MHz to 5250MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5250MHz to 5350MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5470MHz to 5725MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5725MHz to 5850MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

5850MHz to 5895MHz:

Power Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0

PSD Limit Reduction = Directional gain – 6dBi, (Directional gain < 6dBi) =0



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6.2 Transmission in the Absence of Data

6.2.1 Test Requirement:

47 CFR Part 15, Subpart E 15.407 (c)

6.2.2 Conclusion

Standard Requirement:

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signalling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals.

Applicants shall include in their application for equipment authorization a description of how this requirement is met.

EUT Details:

WIFI chip support automatically discontinue transmission in case of either absence of information to transmit or operational failure, if the chip detect absence of information to transmit or operational failure, it will be automatically shut off.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)
 Test Method: ANSI C63.10 (2020) Section 6.2
 Test Engineer: Mason Wu

Limit:

Frequency of emission(MHz)	Conducted limit(dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 23.4 °C Humidity: 42.5 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

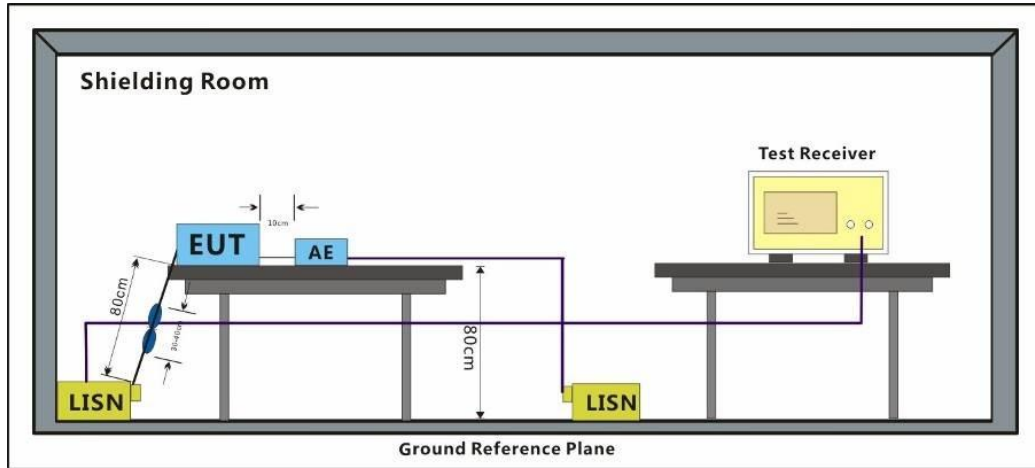


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7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear 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 was bonded to the horizontal 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 equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark 1: Level=Read Level+ Cable Loss+ LISN Factor

Remark 2: Pre-test AC 120V/50-60Hz&AC 240V/50-60Hz then choose the AC 120/60Hz as worst case.

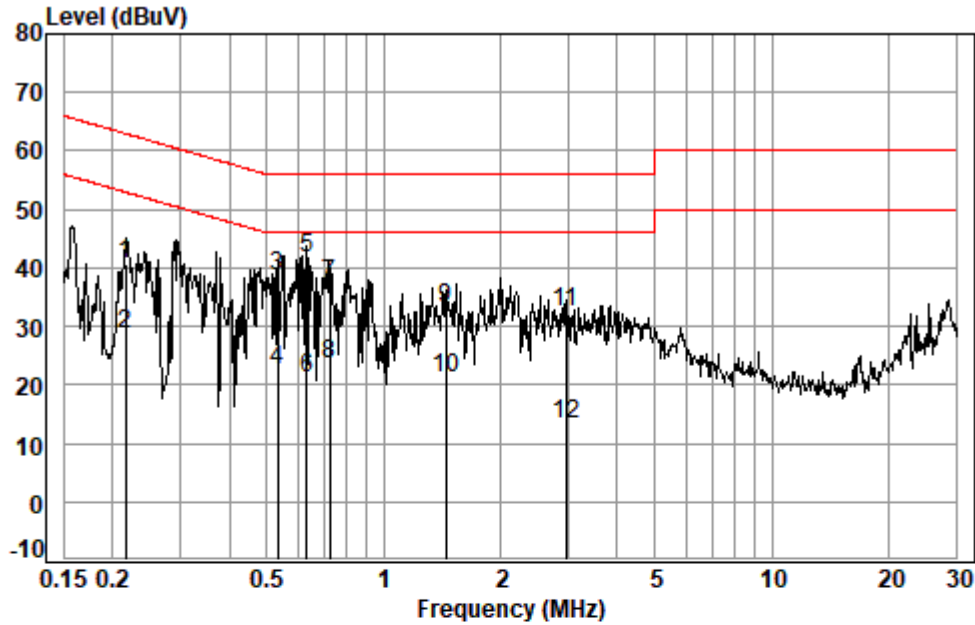


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Test Mode: 16; Line: Live line



Site : Shielding Room

Condition: Line

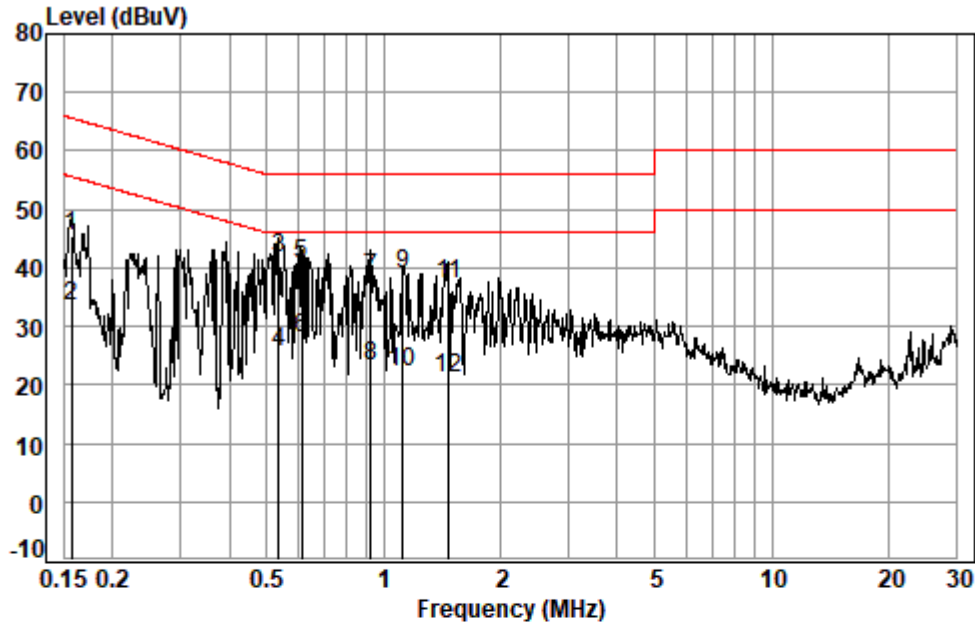
Job No. : 00753TL

Test mode: 16

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.2162	0.06	10.07	30.61	40.74	62.96	-22.22	QP
2	0.2162	0.06	10.07	18.49	28.62	52.96	-24.34	Average
3	0.5322	0.08	9.56	29.10	38.74	56.00	-17.26	QP
4	0.5322	0.08	9.56	12.71	22.35	46.00	-23.65	Average
5 *	0.6338	0.09	9.62	32.04	41.75	56.00	-14.25	QP
6	0.6338	0.09	9.62	11.59	21.30	46.00	-24.70	Average
7	0.7274	0.09	9.64	27.58	37.31	56.00	-18.69	QP
8 *	0.7274	0.09	9.64	13.82	23.55	46.00	-22.45	Average
9	1.4485	0.11	9.58	23.54	33.23	56.00	-22.77	QP
10	1.4485	0.11	9.58	11.52	21.21	46.00	-24.79	Average
11	2.9463	0.12	9.65	22.82	32.59	56.00	-23.41	QP
12	2.9463	0.12	9.65	3.49	13.26	46.00	-32.74	Average



Test Mode: 16; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00753TL
Test mode: 16

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1573	0.05	10.14	35.26	45.45	65.60	-20.15	QP
2	0.1573	0.05	10.14	23.18	33.37	55.60	-22.23	Average
3 *	0.5378	0.08	9.70	31.84	41.62	56.00	-14.38	QP
4	0.5378	0.08	9.70	15.94	25.72	46.00	-20.28	Average
5	0.6140	0.09	9.67	30.93	40.69	56.00	-15.31	QP
6 *	0.6140	0.09	9.67	18.33	28.09	46.00	-17.91	Average
7	0.9282	0.10	9.56	28.62	38.28	56.00	-17.72	QP
8	0.9282	0.10	9.56	13.41	23.07	46.00	-22.93	Average
9	1.1233	0.10	9.54	29.40	39.04	56.00	-16.96	QP
10	1.1233	0.10	9.54	12.46	22.10	46.00	-23.90	Average
11	1.4718	0.11	9.55	27.64	37.30	56.00	-18.70	QP
12	1.4718	0.11	9.55	11.50	21.16	46.00	-24.84	Average



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7.2 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: ANSI C63.10 (2020) Section 6.4,6.5
 Measurement Distance: 3m
 Test Engineer: Kaito Zeng

Limit:

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

Note

1. The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.
2. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C Humidity: 46.8 % RH Atmospheric Pressure: 1010 mbar



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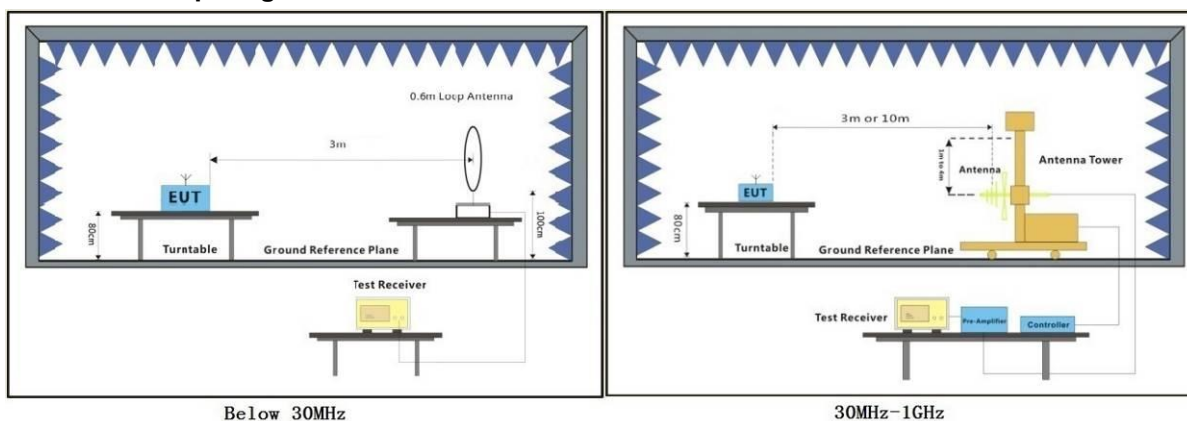
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7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	16	TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8m above the ground at a semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3m away from the interference-receiving antenna, which was mounted on the variable-height antenna tower.
- c. The antenna height is varied from 1m to 4m 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.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1m to 4m (for the test frequency of below 30MHz, the antenna was tuned to heights 1m) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. At frequencies below 1GHz, measurements may be performed at a distance different to specified in the regulations.

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)

The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Below 30MHz, Aux Factor = 40 dB/decade of distance, the aux factor is $40\log(3/300) = -80\text{dB}$ (for 3m test distance).

EX. Above 30MHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(10/3) = 10.46\text{dB}$ (for 10m test distance).

2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the worst-case test curve is displayed.



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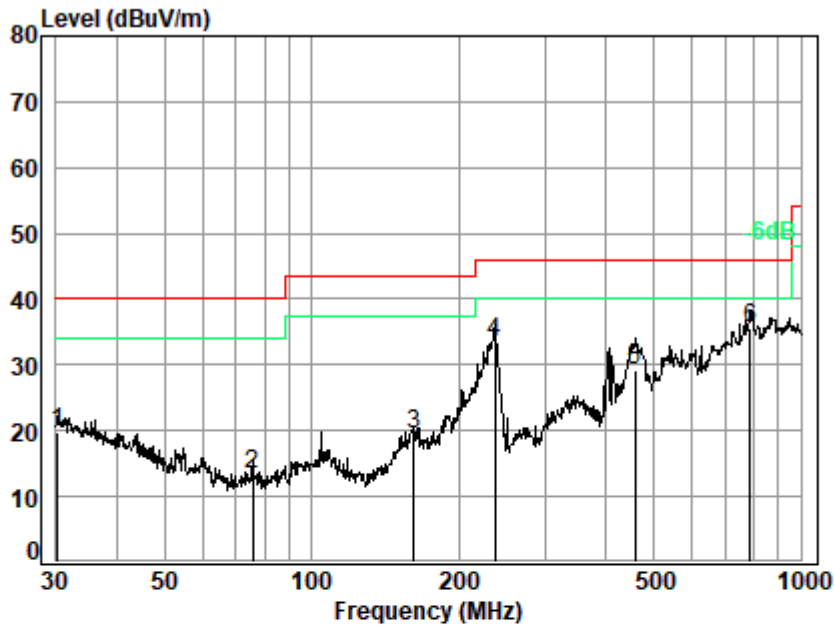
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Test Mode: 16; Polarity: Horizontal



Condition: 3m HORIZONTAL

Job No. : 00753TL

Test Mode: 16

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.211	21.34	0.74	27.65	25.24	19.67	40.00	-20.33	QP
2	75.711	10.54	1.05	27.61	29.48	13.46	40.00	-26.54	QP
3	161.474	13.85	1.55	27.74	31.86	19.52	43.50	-23.98	QP
4	236.645	17.00	1.87	27.68	42.30	33.49	46.00	-12.51	QP
5	457.507	21.34	2.68	27.87	32.91	29.06	46.00	-16.94	QP
6 q	787.851	27.68	3.66	27.63	31.77	35.48	46.00	-10.52	QP



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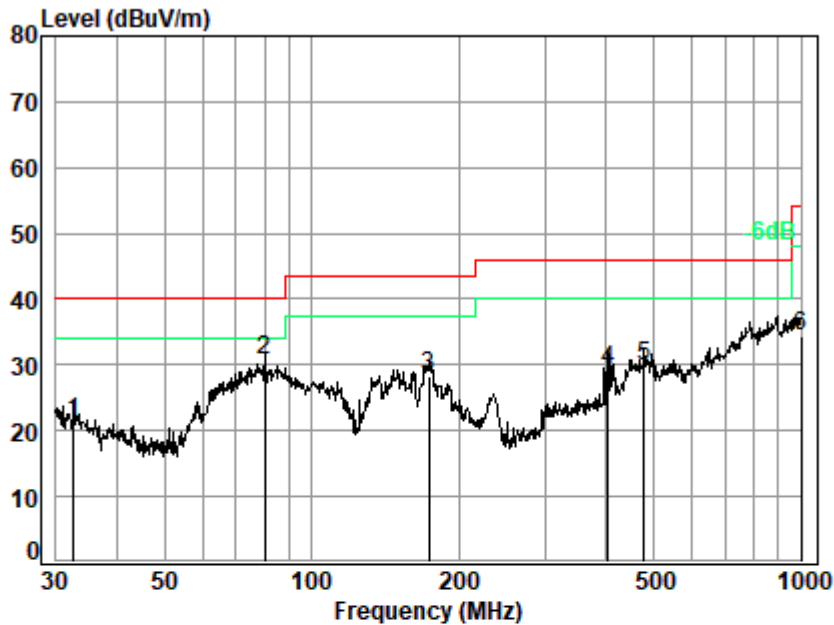
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Test Mode: 16; Polarity: Vertical



Condition: 3m VERTICAL

Job No. : 00753TL

Test Mode: 16

	Freq	Ant	Cable	Preamp	Read	Limit	Over	
	MHz	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	32.520	20.11	0.76	27.65	28.00	21.22	40.00	-18.78 QP
2 q	80.081	10.69	1.10	27.61	46.59	30.77	40.00	-9.23 QP
3	173.814	14.29	1.60	27.76	40.19	28.32	43.50	-15.18 QP
4	403.250	20.54	2.50	27.76	33.91	29.19	46.00	-16.81 QP
5	478.846	22.46	2.75	27.90	32.40	29.71	46.00	-16.29 QP
6	1000.000	29.54	4.17	26.40	26.97	34.28	54.00	-19.72 QP



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7.3 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: ANSI C63.10 (2020) Section 6.6 & 12.7
 Measurement Distance: 3m
 Test Engineer: Logic Wang
 Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) 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 increasing linearly to a level of 27 dBm/MHz at the band edge. For transmitters operating solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz:

For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.

Remark:

1. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

2. Above 18GHz, measurements may be performed at a distance shorter than that specified in the regulations

Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor+ Aux Factor (if applicable)



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The aux factor needs to be added when measurements are performed at a distance other than the limit distance provided.

EX. Above 18GHz, Aux Factor = 20 dB/decade of distance, the aux factor is $20\log(1/3) = -9.54\text{dB}$ (for 1m test distance).

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

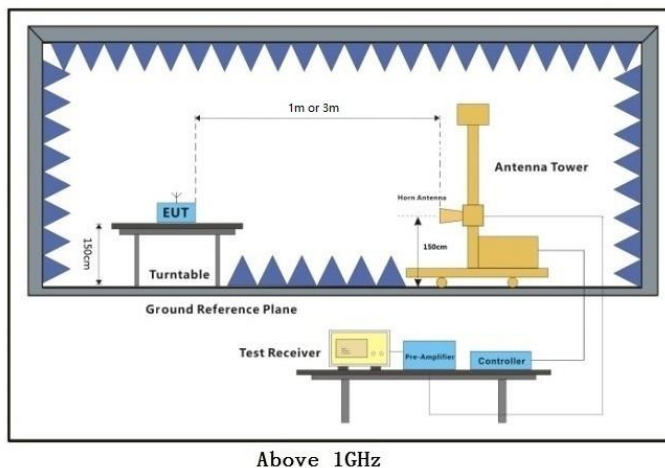
Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



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7.3.4 Measurement Procedure and Data

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. 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.
- d. 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 40GHz, The points marked on below plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.
4. The disturbance above 18GHz were very low and the below harmonics were the highest point could be found when testing, so only the below harmonics had been displayed.
5. For devices with multiple operating modes, measurements on the middle channel is used to determine the worst-case mode(s). Only the worst case mode with the highest output power and the mode with the highest output power spectral density for each modulation family (e.g., OFDM and direct sequence spread spectrum) is recorded in the test report.
6. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
7. For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $\leq 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



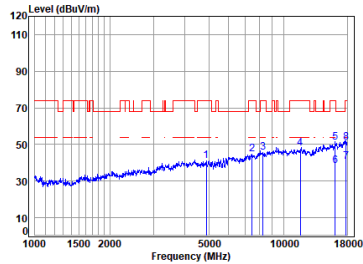
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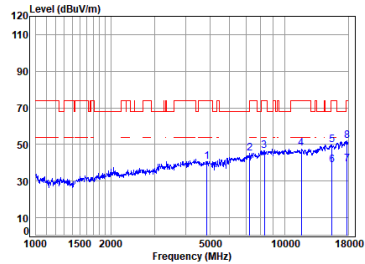
11a_TX_CH_L_Horizontal



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5845 TX RSE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4888.151	7.48	34.65	54.21	53.14	41.06	74.00	-32.94	Peak	0.00
2 7476.006	8.42	36.05	53.15	53.20	44.52	74.00	-29.48	Peak	0.00
3 8271.880	9.36	36.70	53.24	52.83	45.65	74.00	-28.35	Peak	0.00
4 11690.000	11.52	37.88	53.14	51.73	47.99	74.00	-26.01	Peak	0.00
5 p16127.690	18.92	41.73	51.94	58.44	51.15	74.00	-22.85	Peak	0.00
6 16127.690	18.92	41.73	51.94	37.83	38.54	54.00	-15.46	Average	0.00
7 q17793.090	11.38	43.89	52.50	37.84	40.61	54.00	-13.39	Average	0.00
8 17793.090	11.38	43.89	52.50	48.32	51.09	74.00	-22.91	Peak	0.00

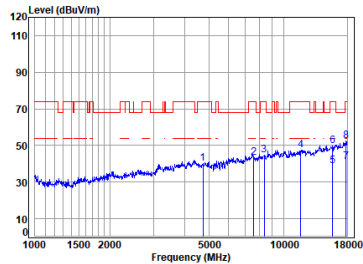
11a_TX_CH_L_Vertical



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5845 TX RSE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4874.043	7.47	34.60	54.21	52.95	40.81	74.00	-33.19	Peak	0.00
2 7242.052	8.49	35.70	53.17	54.15	45.17	68.20	-23.03	Peak	0.00
3 8295.823	9.38	36.70	53.25	53.67	46.50	74.00	-27.50	Peak	0.00
4 11690.000	11.52	37.88	53.14	51.65	47.91	74.00	-26.09	Peak	0.00
5 15488.110	10.87	41.09	52.20	58.19	49.95	74.00	-24.05	Peak	0.00
6 15488.110	10.87	41.09	52.20	38.90	38.66	54.00	-15.34	Average	0.00
7 q17793.090	11.38	43.89	52.50	36.63	39.40	54.00	-14.60	Average	0.00
8 p17793.090	11.38	43.89	52.50	49.16	51.93	74.00	-22.07	Peak	0.00

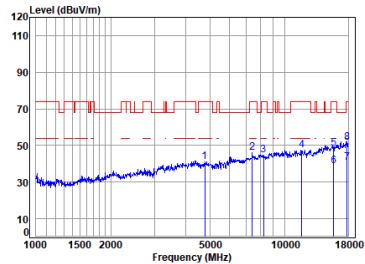
11a_TX_CH_M_Horizontal



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5865 TX RSE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4735.181	7.36	33.84	54.22	53.37	40.35	74.00	-33.65	Peak	0.00
2 7584.833	8.53	36.17	53.14	51.87	43.43	74.00	-30.57	Peak	0.00
3 8343.918	9.43	36.70	53.28	51.73	44.58	74.00	-29.42	Peak	0.00
4 11730.000	11.53	37.90	53.15	51.10	47.38	74.00	-26.62	Peak	0.00
5 15713.560	10.89	41.21	52.02	38.56	38.64	54.00	-15.36	Average	0.00
6 15713.560	10.89	41.21	52.02	49.67	49.75	74.00	-24.25	Peak	0.00
7 q17793.090	11.38	43.89	52.50	38.09	40.86	54.00	-13.14	Average	0.00
8 p17793.090	11.38	43.89	52.50	49.65	52.42	74.00	-21.58	Peak	0.00

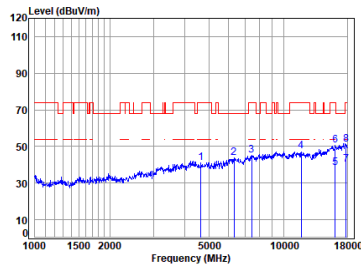
11a_TX_CH_M_Vertical



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5865 TX RSE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4776.419	7.39	34.11	54.22	53.82	41.10	74.00	-32.90	Peak	0.00
2 7411.461	8.44	35.85	53.16	54.75	45.88	74.00	-28.12	Peak	0.00
3 8224.200	9.31	36.65	53.22	52.19	44.93	74.00	-29.07	Peak	0.00
4 11730.000	11.53	37.90	53.15	50.99	47.27	74.00	-26.73	Peak	0.00
5 15759.050	10.89	41.26	51.99	48.42	48.50	74.00	-25.42	Peak	0.00
6 15759.050	10.89	41.26	51.99	38.46	38.62	54.00	-15.38	Average	0.00
7 q17844.590	11.41	43.90	52.48	37.79	40.62	54.00	-13.38	Average	0.00
8 p17844.590	11.41	43.90	52.48	48.66	51.49	74.00	-22.51	Peak	0.00

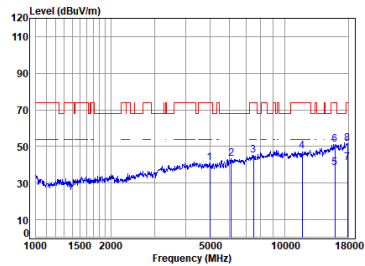
11a_TX_CH_H_Horizontal



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5885 TX RSE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4640.339	7.28	33.38	54.23	54.75	41.18	74.00	-32.82	Peak	0.00
2 6322.136	8.90	34.96	53.13	53.01	43.74	68.20	-24.46	Peak	0.00
3 7432.914	8.43	35.93	53.16	53.79	44.99	74.00	-29.01	Peak	0.00
4 11770.000	11.55	37.90	53.16	51.10	47.39	74.00	-26.61	Peak	0.00
5 16081.140	10.91	41.68	51.89	37.69	38.39	54.00	-15.61	Average	0.00
6 16081.140	10.91	41.68	51.89	49.82	50.52	74.00	-23.48	Peak	0.00
7 q17844.590	11.41	43.90	52.48	37.41	40.24	54.00	-13.76	Average	0.00
8 p17844.590	11.41	43.90	52.48	48.10	50.93	74.00	-23.07	Peak	0.00

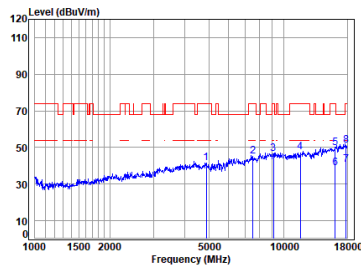
11a_TX_CH_H_Vertical



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5885 TX RSE
Note : 5G WIFI 11A

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 5002.497	7.56	34.39	54.20	53.32	41.07	74.00	-32.93	Peak	0.00
2 6088.991	8.92	35.08	53.11	52.44	43.33	68.20	-24.87	Peak	0.00
3 7497.646	8.41	36.10	53.15	53.84	45.20	74.00	-28.80	Peak	0.00
4 11770.000	11.55	37.90	53.16	51.04	47.33	74.00	-26.67	Peak	0.00
5 15896.290	10.90	41.40	51.88	38.02	38.44	54.00	-15.56	Average	0.00
6 15896.290	10.90	41.40	51.88	50.57	50.99	74.00	-23.01	Peak	0.00
7 q17896.250	11.44	43.90	52.45	38.00	40.89	54.00	-13.11	Average	0.00
8 p17896.250	11.44	43.90	52.45	48.87	51.76	74.00	-22.24	Peak	0.00

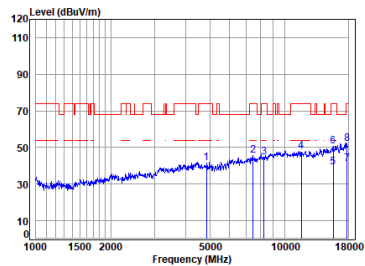
11ax_TX_CH_L_Horizontal



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5845 TX RSE
Note : 5G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4888.151	7.48	34.65	54.21	53.76	41.68	74.00	-32.32	Peak	0.00
2 7519.349	8.44	36.10	53.15	53.56	44.95	74.00	-29.05	Peak	0.00
3 9099.724	10.63	37.00	53.56	52.69	46.76	74.00	-27.24	Peak	0.00
4 11690.000	11.52	37.88	53.14	51.07	47.33	74.00	-26.67	Peak	0.00
5 16127.690	10.92	41.73	51.94	48.91	49.62	74.00	-24.38	Peak	0.00
6 16127.690	10.92	41.73	51.94	38.12	38.63	54.00	-15.17	Average	0.00
7 q17844.590	11.41	43.90	52.48	37.41	40.77	54.00	-13.23	Average	0.00
8 p17844.590	11.41	43.90	52.48	48.29	51.12	74.00	-22.88	Peak	0.00

11ax_TX_CH_L_Vertical

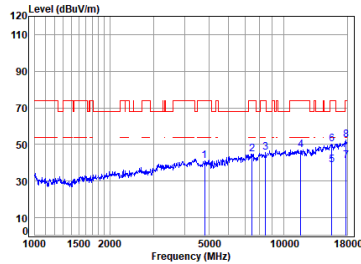


Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5845 TX RSE
Note : 5G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4859.975	7.45	34.54	54.21	53.75	41.53	74.00	-32.47	Peak	0.00
2 7454.429	8.42	36.01	53.15	54.29	45.57	74.00	-28.43	Peak	0.00
3 8248.005	9.33	36.70	53.23	51.75	44.55	74.00	-29.45	Peak	0.00
4 11690.000	11.52	37.88	53.14	51.73	47.99	74.00	-26.01	Peak	0.00
5 15668.210	10.89	41.17	52.06	39.23	39.23	54.00	-14.77	Average	0.00
6 15668.210	10.89	41.17	52.06	50.55	50.55	74.00	-23.45	Peak	0.00
7 q17793.090	11.38	43.89	52.50	38.43	41.20	54.00	-12.80	Average	0.00
8 p17793.090	11.38	43.89	52.50	49.34	52.11	74.00	-21.89	Peak	0.00



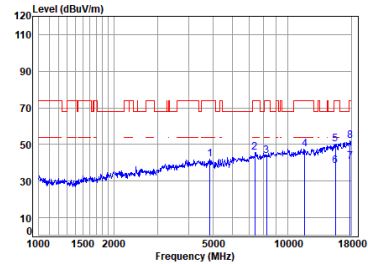
11ax_TX_CH_M_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00753TL00754TL
Mode : 5865 TX RSE
Note : 5G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4894.110	7.41	34.32	54.22	53.59	41.10	74.00	-32.90	Peak	0.00
2 7454.429	8.42	36.81	53.15	53.64	44.92	74.00	-29.08	Peak	0.00
3 8465.379	9.55	36.63	53.34	52.94	45.78	74.00	-28.22	Peak	0.00
4 11730.000	11.53	37.90	53.15	50.67	46.95	74.00	-27.05	Peak	0.00
5 15622.990	10.88	41.12	52.10	38.96	38.96	54.00	-15.14	Average	0.00
6 15622.990	10.88	41.12	52.10	50.45	50.35	74.00	-23.65	Peak	0.00
7 q17844.590	11.41	43.90	52.48	38.31	41.14	54.00	-12.86	Average	0.00
8 p17844.590	11.41	43.90	52.48	49.62	52.45	74.00	-21.55	Peak	0.00

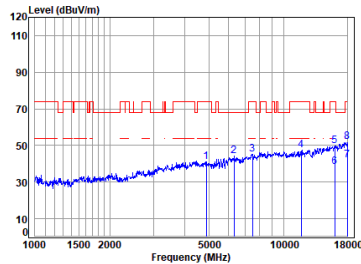
11ax_TX_CH_M_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00753TL00754TL
Mode : 5865 TX RSE
Note : 5G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4874.043	7.47	34.60	54.21	54.03	41.89	74.00	-32.11	Peak	0.00
2 7390.070	8.44	35.78	53.16	54.68	45.74	74.00	-28.26	Peak	0.00
3 8224.200	9.31	36.65	53.22	51.20	43.94	74.00	-30.06	Peak	0.00
4 11730.000	11.53	37.90	53.15	51.10	47.38	74.00	-26.62	Peak	0.00
5 15532.940	10.88	41.10	52.17	50.43	50.24	74.00	-23.76	Peak	0.00
6 15532.940	10.88	41.10	52.17	38.50	38.31	54.00	-15.69	Average	0.00
7 q17793.090	11.38	43.89	52.50	38.01	40.78	54.00	-13.22	Average	0.00
8 p17793.090	11.38	43.89	52.50	49.21	51.98	74.00	-22.02	Peak	0.00

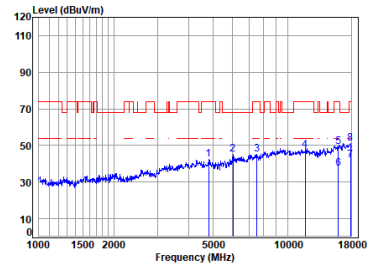
11ax_TX_CH_H_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00753TL00754TL
Mode : 5885 TX RSE
Note : 5G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4888.151	7.48	34.65	54.21	53.30	41.22	74.00	-32.78	Peak	0.00
2 6322.136	8.90	34.96	53.13	53.33	44.06	68.20	-24.14	Peak	0.00
3 7497.646	8.41	36.10	53.15	53.70	45.06	74.00	-28.94	Peak	0.00
4 11770.000	11.55	37.90	53.16	51.06	47.35	74.00	-26.65	Peak	0.00
5 16834.730	10.91	41.63	51.84	48.98	49.68	74.00	-24.40	Peak	0.00
6 16834.730	10.91	41.63	51.84	37.50	38.20	54.00	-15.80	Average	0.00
7 q18000.000	11.50	44.30	52.40	41.80	54.00	-12.20	Average	0.00	0.00
8 p18000.000	11.50	44.30	52.40	48.84	52.24	74.00	-21.76	Peak	0.00

11ax_TX_CH_H_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00753TL00754TL
Mode : 5885 TX RSE
Note : 5G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 4818.016	7.42	34.37	54.22	54.73	42.30	74.00	-31.70	Peak	0.00
2 6018.999	8.93	34.94	53.10	54.23	45.00	68.20	-23.20	Peak	0.00
3 7519.349	8.44	36.10	53.15	53.68	45.07	74.00	-28.93	Peak	0.00
4 11770.000	11.55	37.90	53.16	51.25	47.54	74.00	-26.46	Peak	0.00
5 15988.450	10.90	41.58	51.81	48.73	49.40	74.00	-24.60	Peak	0.00
6 15988.450	10.90	41.58	51.81	36.84	37.51	54.00	-16.49	Average	0.00
7 q17896.250	11.44	43.90	52.45	39.00	41.89	54.00	-12.11	Average	0.00
8 p17896.250	11.44	43.90	52.45	48.13	51.02	74.00	-22.98	Peak	0.00

7.4 Radiated Emissions which fall in the restricted bands

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)
 Test Method: ANSI C63.10 (2020) Section 6.10.5 & 12.7.2
 Measurement Distance: 3m
 Test Engineer: Logic Wang

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

*(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:

(i) 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 increasing linearly to a level of 27 dBm/MHz at the band edge. For transmitters operating solely in the 5.850-5.895 GHz band or operating on a channel that spans across 5.725-5.895 GHz:

For an indoor access point or subordinate device, all emissions at or above 5.895 GHz shall not exceed an e.i.r.p. of 15 dBm/MHz and shall decrease linearly to an e.i.r.p. of -7 dBm/MHz at or above 5.925 GHz.

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



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SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR260300075306

Page: 32 of 177

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

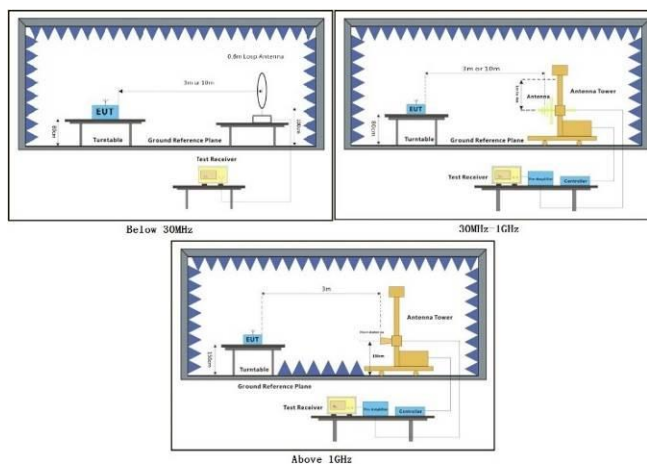
Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch Calibration Laboratory

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7.4.4 Measurement Procedure and Data

- a. For below 1GHz, 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 chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

Remark 3: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



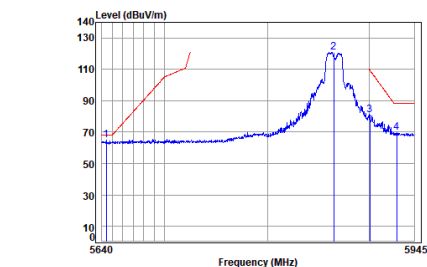
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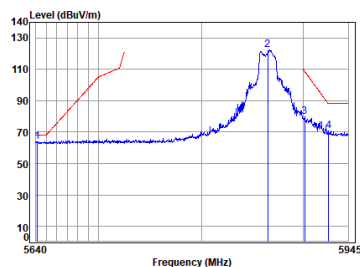
11a_TX_CH_L_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00753TL00754TL
Mode : 5805 Band edge
: 5G NR1 11A

Freq	Cable Loss Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p 5644.160	29.68	34.44	31.53	32.54	65.13	68.20	-3.07	Peak	0.00
2 5805.000	29.96	34.46	31.64	88.23	121.01	-----	-----	Peak	0.00
3 5900.706	30.01	34.60	31.65	47.75	80.71	109.58	-28.87	Peak	0.00
4 5927.492	30.04	34.65	31.67	36.96	69.98	88.20	-18.22	Peak	0.00

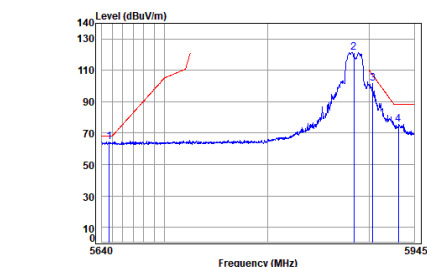
11a_TX_CH_L_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 00753TL00754TL
Mode : 5805 Band edge
: 5G NR1 11A

Freq	Cable Loss Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p 5641.485	29.68	34.45	31.53	31.37	63.97	68.20	-4.23	Peak	0.00
2 5805.000	29.96	34.46	31.64	89.40	122.18	-----	-----	Peak	0.00
3 5901.638	30.01	34.60	31.65	46.68	79.64	108.76	-29.12	Peak	0.00
4 5925.307	30.04	34.65	31.67	37.76	70.78	88.20	-17.42	Peak	0.00

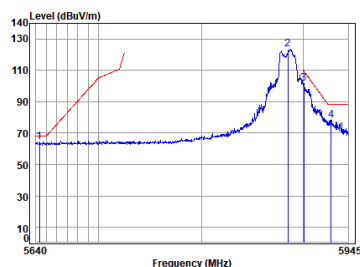
11a_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00753TL00754TL
Mode : 5805 Band edge
: 5G NR1 11A

Freq	Cable Loss Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p 5646.836	29.68	34.42	31.53	31.64	64.21	68.20	-3.99	Peak	0.00
2 5805.000	29.99	34.54	31.65	88.65	121.53	-----	-----	Peak	0.00
3 5903.503	30.01	34.61	31.66	68.89	101.85	107.11	-5.26	Peak	0.00
4 5929.366	30.04	34.66	31.67	42.55	75.58	88.20	-12.62	Peak	0.00

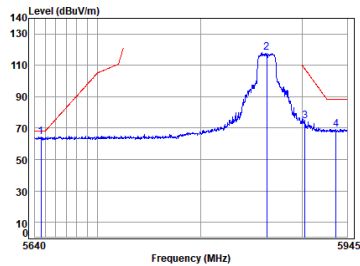
11a_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 00753TL00754TL
Mode : 5805 Band edge
: 5G NR1 11A

Freq	Cable Loss Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p 5643.269	29.68	34.44	31.53	31.60	64.19	68.20	-4.01	Peak	0.00
2 5805.000	29.99	34.54	31.65	90.71	123.59	-----	-----	Peak	0.00
3 5900.706	30.01	34.60	31.65	66.90	101.86	109.58	-7.72	Peak	0.00
4 5928.117	30.04	34.66	31.67	45.39	78.42	88.20	-9.78	Peak	0.00

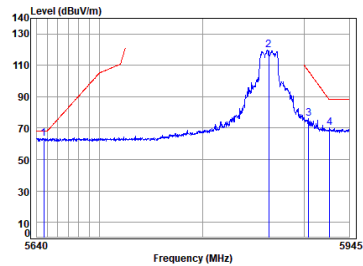
11N_HT(20M)_TX_CH_L_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5855 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p	5645.944	29.68	34.42	31.53	31.63	64.20	68.20	-4.00	Peak	0.00
2	5855.000	29.96	34.46	31.64	85.41	118.19			Peak	0.00
3	5902.881	30.01	34.61	31.66	41.75	74.71	107.66	-32.95	Peak	0.00
4	5933.739	30.05	34.67	31.67	36.13	69.18	88.20	-19.02	Peak	0.00

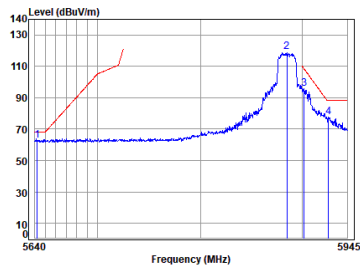
11N_HT(20M)_TX_CH_L_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5855 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p	5646.539	29.68	34.42	31.53	30.67	63.24	68.20	-4.96	Peak	0.00
2	5855.000	29.96	34.46	31.64	86.84	119.62	-----	-----	Peak	0.00
3	5904.436	30.01	34.61	31.66	42.93	75.89	106.29	-30.40	Peak	0.00
4	5925.307	30.04	34.65	31.67	37.08	70.10	88.20	-18.10	Peak	0.00

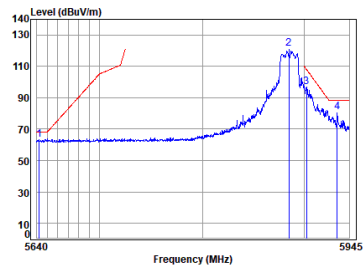
11N_HT(20M)_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5855 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p	5642.377	29.68	34.45	31.53	30.22	62.82	68.20	-5.38	Peak	0.00
2	5855.000	29.99	34.54	31.65	86.18	119.06			Peak	0.00
3	5901.949	30.01	34.60	31.65	62.90	95.86	108.48	-12.62	Peak	0.00
4	5926.244	30.04	34.65	31.67	44.57	77.59	88.20	-10.61	Peak	0.00

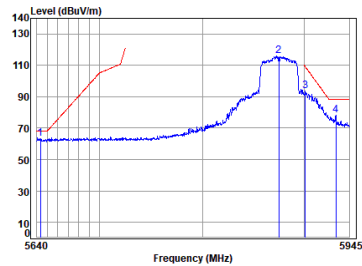
11N_HT(20M)_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5855 Band edge
: 5G WIFI 11N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark	Aux Factor
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p	5642.377	29.68	34.45	31.53	30.55	63.15	68.20	-5.05	Peak	0.00
2	5855.000	29.99	34.54	31.65	88.22	121.10	-----	-----	Peak	0.00
3	5902.570	30.01	34.61	31.66	64.00	96.96	107.93	-10.97	Peak	0.00
4	5933.114	30.05	34.67	31.67	47.87	80.92	88.20	-7.28	Peak	0.00

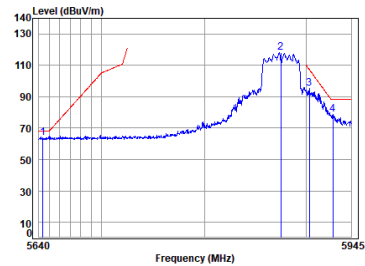
11N_HT(40M)_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5875 Band edge
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5643.269	29.68	34.44	31.53	30.90	63.49	68.20	-4.71 Peak	0.00
2 5875.000	29.98	34.50	31.64	83.22	116.06	-----	Peak	0.00
3 5901.327	30.01	34.60	31.65	60.52	93.48	109.03	-15.55 Peak	0.00
4 5931.552	30.05	34.66	31.67	45.09	78.13	88.20	-10.07 Peak	0.00

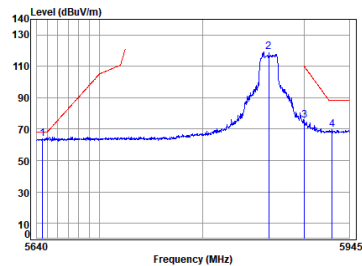
11N_HT(40M)_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5875 Band edge
: 5G WIFI 11N40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5643.863	29.68	34.44	31.53	31.07	63.66	68.20	-4.54 Peak	0.00
2 5875.000	29.98	34.50	31.64	85.22	118.06	-----	Peak	0.00
3 5903.192	30.01	34.61	31.66	62.55	95.51	107.39	-11.88 Peak	0.00
4 5926.556	30.04	34.65	31.67	45.67	78.69	88.20	-9.51 Peak	0.00

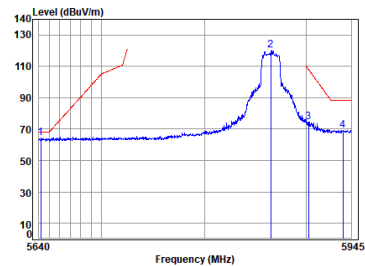
11ac_VHT(20M)_TX_CH_L_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5865 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5645.349	29.68	34.43	31.53	31.28	63.86	68.20	-4.34 Peak	0.00
2 5865.000	29.96	34.46	31.64	86.25	119.03	-----	Peak	0.00
3 5900.395	30.01	34.60	31.65	42.54	75.50	109.85	-34.35 Peak	0.00
4 5928.117	30.04	34.66	31.67	36.47	69.50	88.20	-18.70 Peak	0.00

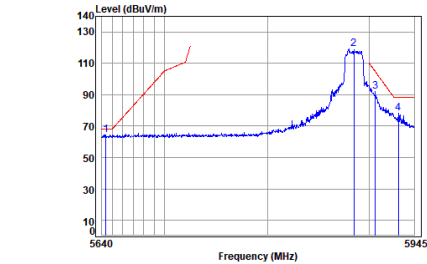
11ac_VHT(20M)_TX_CH_L_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5865 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5641.783	29.68	34.45	31.53	31.91	64.51	68.20	-3.69 Peak	0.00
2 5865.000	29.96	34.46	31.64	87.46	120.24	-----	Peak	0.00
3 5902.259	30.01	34.60	31.65	41.50	74.46	108.21	-33.75 Peak	0.00
4 5936.552	30.05	34.67	31.67	36.27	69.32	88.20	-18.88 Peak	0.00

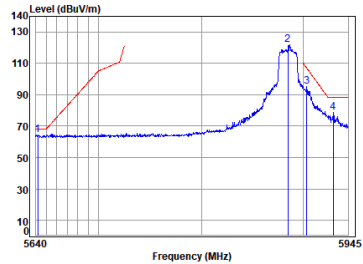
11ac_VHT(20M)_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00753TL00754TL
Mode : 5885 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5643.063	29.68	34.44	31.53	31.83	64.42	68.20	-3.78 Peak	0.00
2 5885.000	29.99	34.54	31.65	86.39	119.27	-----	----- Peak	0.00
3 5905.991	30.01	34.61	31.66	58.88	91.84	104.92	-13.08 Peak	0.00
4 5929.053	30.04	34.66	31.67	45.29	78.32	88.20	-9.88 Peak	0.00

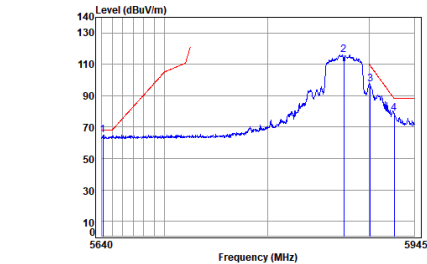
11ac_VHT(20M)_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 00753TL00754TL
Mode : 5885 Band edge
: 5G WIFI 11AC20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5641.783	29.68	34.45	31.53	31.82	64.42	68.20	-3.78 Peak	0.00
2 5885.000	29.99	34.54	31.65	86.76	121.64	-----	----- Peak	0.00
3 5903.503	30.01	34.61	31.66	62.17	95.13	107.11	-11.98 Peak	0.00
4 5929.990	30.04	34.66	31.67	45.52	78.55	88.20	-9.65 Peak	0.00

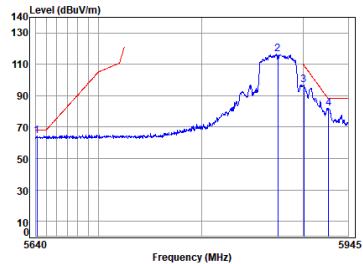
11ac_VHT(40M)_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00753TL00754TL
Mode : 5875 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5641.188	29.68	34.45	31.53	32.31	64.91	68.20	-3.29 Peak	0.00
2 5875.000	29.98	34.50	31.64	83.05	115.89	-----	----- Peak	0.00
3 5901.016	30.01	34.60	31.65	64.29	97.25	109.30	-12.05 Peak	0.00
4 5924.995	30.04	34.65	31.67	45.69	78.71	88.20	-9.49 Peak	0.00

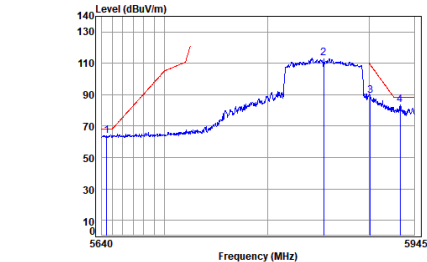
11ac_VHT(40M)_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3m VERTICAL
Job No : 00753TL00754TL
Mode : 5875 Band edge
: 5G WIFI 11AC40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5641.188	29.68	34.45	31.53	31.74	64.34	68.20	-3.86 Peak	0.00
2 5875.000	29.98	34.50	31.64	83.77	116.61	-----	----- Peak	0.00
3 5900.706	30.01	34.60	31.65	63.78	96.74	109.58	-12.84 Peak	0.00
4 5925.619	30.04	34.65	31.67	49.00	82.02	88.20	-6.18 Peak	0.00

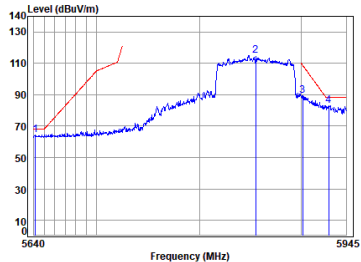
11ac_VHT(80M)_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5855 Band edge
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 p 5644.754	29.68	34.43	31.53	31.13	63.71	68.20	-4.49 Peak	0.00
2 5855.000	29.95	34.42	31.63	80.51	113.25	-----	Peak	0.00
3 5901.016	30.01	34.60	31.65	56.57	89.53	109.30	-19.77 Peak	0.00
4 p 5930.927	30.04	34.66	31.67	50.79	83.82	88.20	-4.38 Peak	0.00

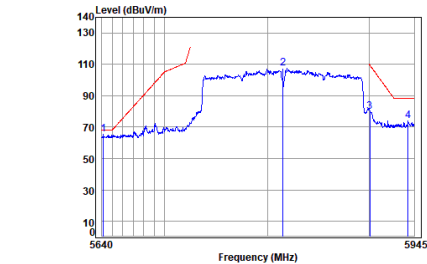
11ac_VHT(80M)_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5855 Band edge
: 5G WIFI 11AC80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 p 5641.485	29.68	34.45	31.53	31.81	64.41	68.20	-3.79 Peak	0.00
2 5855.000	29.95	34.42	31.63	82.30	115.04	-----	Peak	0.00
3 5901.638	30.01	34.60	31.65	56.31	89.27	108.76	-19.49 Peak	0.00
4 5927.492	30.04	34.65	31.67	50.04	83.06	88.20	-5.14 Peak	0.00

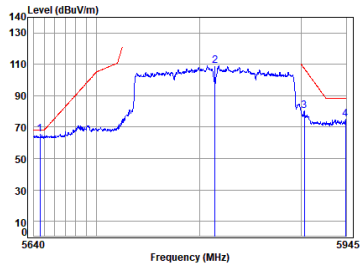
11ac_VHT(160M)_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5815 Band edge
: 5G WIFI 11AC160

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 p 5641.485	29.68	34.45	31.53	32.91	65.51	68.20	-2.69 Peak	0.00
2 5815.000	29.90	34.33	31.61	74.72	107.34	-----	Peak	0.00
3 5900.706	30.01	34.60	31.65	46.69	79.65	109.58	-29.93 Peak	0.00
4 5939.054	30.05	34.68	31.67	40.84	73.90	88.20	-14.30 Peak	0.00

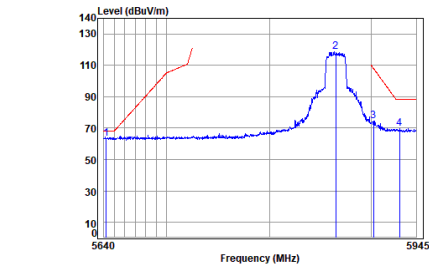
11ac_VHT(160M)_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5815 Band edge
: 5G WIFI 11AC160

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 p 5645.944	29.68	34.42	31.53	32.78	65.35	68.20	-2.85 Peak	0.00
2 5815.000	29.90	34.33	31.61	76.46	109.08	-----	Peak	0.00
3 5903.192	30.01	34.61	31.66	47.47	80.43	107.39	-26.96 Peak	0.00
4 5944.374	30.06	34.69	31.67	41.89	74.97	88.20	-13.23 Peak	0.00

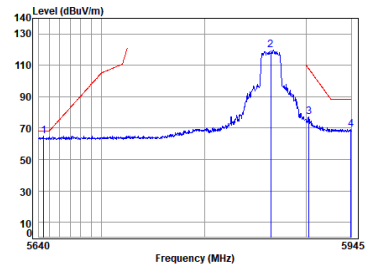
11ax(20M)_TX_CH_L_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5855 Band edge
: 5G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p 5642.000	29.68	34.44	31.53	30.86	63.46	68.20	-4.74	Peak	0.00
2 5855.000	29.96	34.46	31.64	85.68	118.46	-----	-----	Peak	0.00
3 5902.570	30.01	34.61	31.66	41.70	74.66	107.93	-33.27	Peak	0.00
4 5928.429	30.04	34.66	31.67	36.60	69.63	88.20	-18.57	Peak	0.00

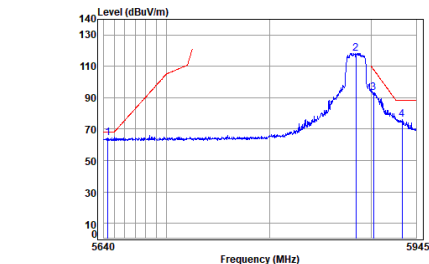
11ax(20M)_TX_CH_L_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5855 Band edge
: 5G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p 5644.458	29.68	34.43	31.53	32.47	65.05	68.20	-3.15	Peak	0.00
2 5855.000	29.96	34.46	31.64	87.24	120.02	-----	-----	Peak	0.00
3 5902.881	30.01	34.61	31.66	44.02	76.98	107.66	-30.68	Peak	0.00
4 5944.687	30.06	34.69	31.67	36.19	69.27	88.20	-18.93	Peak	0.00

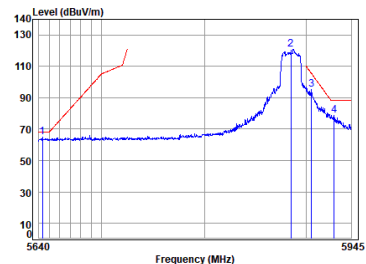
11ax(20M)_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5855 Band edge
: 5G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p 5643.863	29.68	34.44	31.53	31.76	64.35	68.20	-3.85	Peak	0.00
2 5855.000	29.99	34.54	31.65	85.53	118.41	-----	-----	Peak	0.00
3 5902.570	30.01	34.61	31.66	60.12	93.08	107.93	-14.85	Peak	0.00
4 5938.927	30.04	34.66	31.67	43.24	76.27	88.20	-11.93	Peak	0.00

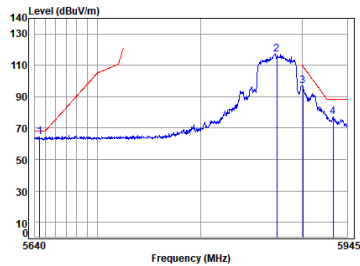
11ax(20M)_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5855 Band edge
: 5G WIFI 11AX20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		dB
1 p 5643.269	29.68	34.44	31.53	32.10	64.69	68.20	-3.51	Peak	0.00
2 5855.000	29.99	34.54	31.65	87.99	120.87	-----	-----	Peak	0.00
3 5905.369	30.01	34.61	31.66	62.21	95.17	105.47	-10.30	Peak	0.00
4 5928.117	30.04	34.66	31.67	45.82	78.85	88.20	-9.35	Peak	0.00

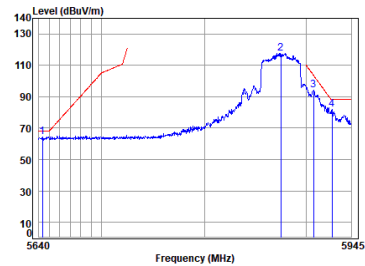
11ax(40M)_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5875 Band edge
: 5G WIFI 11AX40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5644.458	29.68	34.43	31.53	31.94	64.52	68.20	-3.68 Peak	0.00
2 5875.000	29.98	34.50	31.64	84.49	117.33	-----	----- Peak	0.00
3 5900.786	30.01	34.60	31.65	63.86	96.82	109.58	-12.76 Peak	0.00
4 5930.927	30.04	34.66	31.67	44.12	77.15	88.20	-11.05 Peak	0.00

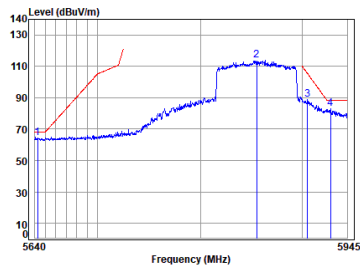
11ax(40M)_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5875 Band edge
: 5G WIFI 11AX40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5643.565	29.68	34.44	31.53	31.63	64.22	68.20	-3.98 Peak	0.00
2 5875.000	29.98	34.50	31.64	84.93	117.77	-----	----- Peak	0.00
3 5907.235	30.02	34.61	31.66	61.00	93.97	103.82	-9.85 Peak	0.00
4 5925.932	30.04	34.65	31.67	48.72	81.74	88.20	-6.46 Peak	0.00

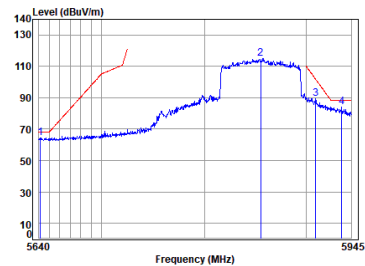
11ax_VHT(80M)_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5855 Band edge
: 5G WIFI 11AX80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5642.674	29.68	34.44	31.53	32.04	64.63	68.20	-3.57 Peak	0.00
2 5855.000	29.95	34.42	31.63	81.30	114.04	-----	----- Peak	0.00
3 5905.369	30.01	34.61	31.66	55.79	88.75	105.47	-16.72 Peak	0.00
4 5928.429	30.04	34.66	31.67	49.89	82.92	88.20	-5.28 Peak	0.00

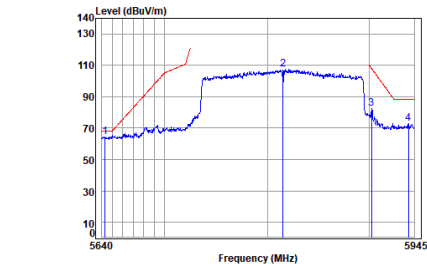
11ax_VHT(80M)_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5855 Band edge
: 5G WIFI 11AX80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5641.485	29.68	34.45	31.53	31.00	64.40	68.20	-3.80 Peak	0.00
2 5855.000	29.95	34.42	31.63	82.12	114.86	-----	----- Peak	0.00
3 5909.413	30.02	34.62	31.66	56.36	89.34	101.91	-12.57 Peak	0.00
4 5935.614	30.05	34.67	31.67	51.00	84.05	88.20	-4.15 Peak	0.00

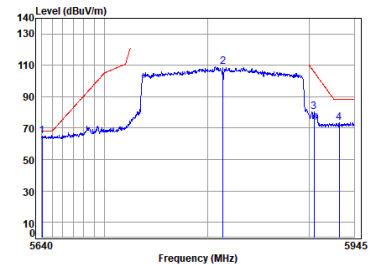
11ax_VHT(160M)_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5815 Band edge
: 5G WIFI 11AX160

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5642.971	29.68	34.44	31.53	31.65	64.24	68.20	-3.96 Peak	0.00
2 5815.000	29.90	34.33	31.61	75.14	107.76	-----	Peak	0.00
3 5902.570	30.01	34.61	31.66	49.40	82.36	107.93	-25.57 Peak	0.00
4 5939.367	30.06	34.68	31.67	39.98	73.05	88.20	-15.15 Peak	0.00

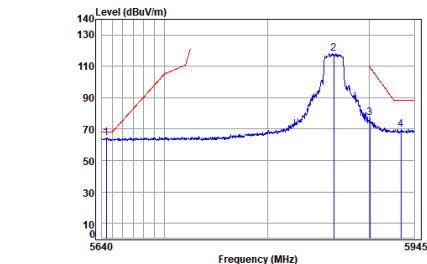
11ax_VHT(160M)_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5815 Band edge
: 5G WIFI 11AX160

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5640.297	29.68	34.46	31.53	32.44	65.05	68.20	-3.15 Peak	0.00
2 5815.000	29.90	34.33	31.61	76.41	109.03	-----	Peak	0.00
3 5905.058	30.01	34.61	31.66	47.68	80.64	105.74	-25.10 Peak	0.00
4 5929.990	30.04	34.66	31.67	40.37	73.40	88.20	-14.80 Peak	0.00

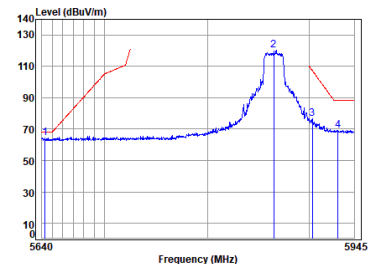
11be(20M)_TX_CH_L_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5865 Band edge
: 5G WIFI 11BE20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5644.160	29.68	34.44	31.53	31.97	64.56	68.20	-3.64 Peak	0.00
2 5865.000	29.96	34.46	31.64	85.46	118.24	-----	Peak	0.00
3 5900.706	30.01	34.60	31.65	44.00	76.96	109.58	-32.62 Peak	0.00
4 5931.552	30.05	34.66	31.67	36.85	69.89	88.20	-18.31 Peak	0.00

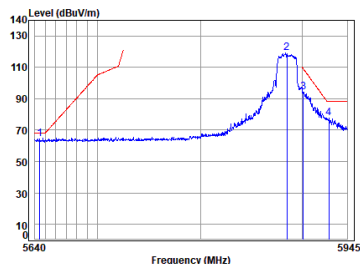
11be(20M)_TX_CH_L_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5865 Band edge
: 5G WIFI 11BE20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5642.971	29.68	34.44	31.53	31.82	64.41	68.20	-3.79 Peak	0.00
2 5865.000	29.96	34.46	31.64	87.28	120.06	-----	Peak	0.00
3 5903.192	30.01	34.61	31.66	43.72	76.68	107.39	-30.71 Peak	0.00
4 5928.741	30.04	34.66	31.67	36.31	69.34	88.20	-18.86 Peak	0.00

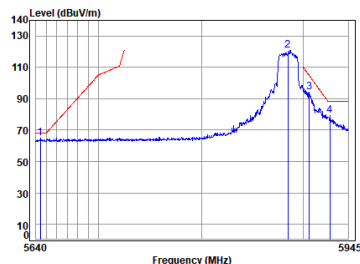
11be(20M)_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5885 Band edge
: 5G WIFI 11BE20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5644.458	29.68	34.43	31.53	31.79	64.37	68.20	-3.83 Peak	0.00
2 5885.000	29.99	34.54	31.65	86.16	119.04	-----	Peak	0.00
3 5901.016	30.01	34.60	31.65	61.19	94.15	109.30	-15.15 Peak	0.00
4 5926.068	30.04	34.65	31.67	44.81	77.83	88.20	-10.37 Peak	0.00

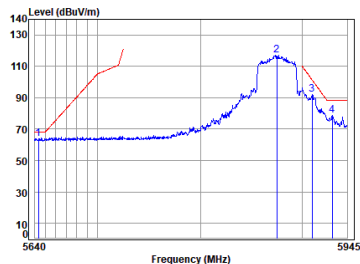
11be(20M)_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5885 Band edge
: 5G WIFI 11BE20

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5644.160	29.68	34.44	31.53	32.33	64.92	68.20	-3.28 Peak	0.00
2 5885.000	29.99	34.54	31.65	88.02	120.90	-----	Peak	0.00
3 5906.302	30.01	34.61	31.66	61.39	94.35	104.65	-10.30 Peak	0.00
4 5926.556	30.04	34.65	31.67	46.15	79.17	88.20	-9.03 Peak	0.00

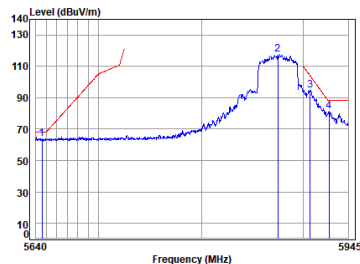
11be(40M)_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5875 Band edge
: 5G WIFI 11BE40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5643.565	29.68	34.44	31.53	31.49	64.08	68.20	-4.12 Peak	0.00
2 5875.000	29.98	34.50	31.64	84.11	116.95	-----	Peak	0.00
3 5910.036	30.02	34.62	31.66	58.87	91.85	101.36	-9.51 Peak	0.00
4 5929.990	30.04	34.66	31.67	45.83	78.86	88.20	-9.34 Peak	0.00

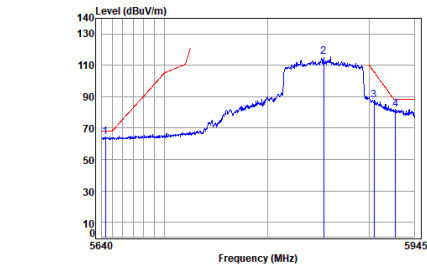
11be(40M)_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5875 Band edge
: 5G WIFI 11BE40

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB
1 p 5645.646	29.68	34.43	31.53	31.49	64.07	68.20	-4.13 Peak	0.00
2 5875.000	29.98	34.50	31.64	84.88	117.72	-----	Peak	0.00
3 5906.924	30.02	34.61	31.66	61.93	94.90	104.10	-9.20 Peak	0.00
4 5925.932	30.04	34.65	31.67	48.35	81.37	88.20	-6.83 Peak	0.00

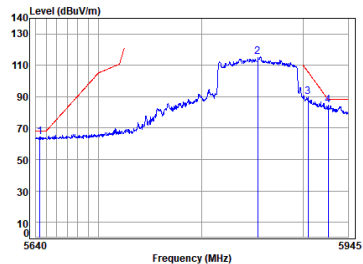
11be_VHT(80M)_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5855 Band edge
: 5G WIFI 11BE80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 p 5643.269	29.68	34.44	31.53	32.03	64.62	68.20	-3.58 Peak	0.00
2 5855.000	29.95	34.42	31.63	82.58	115.32	-----	Peak	0.00
3 5905.058	30.01	34.61	31.66	55.10	88.06	105.74	-17.68 Peak	0.00
4 5926.244	30.04	34.65	31.67	49.16	82.18	88.20	-6.02 Peak	0.00

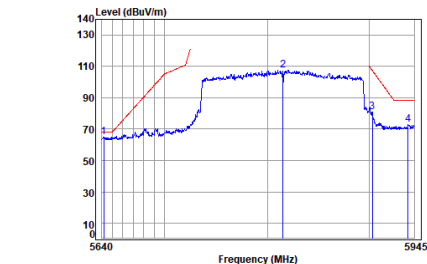
11be_VHT(80M)_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5855 Band edge
: 5G WIFI 11BE80

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 5643.863	29.68	34.44	31.53	31.66	64.25	68.20	-3.95 Peak	0.00
2 5855.000	29.95	34.42	31.63	82.82	115.56	-----	Peak	0.00
3 5904.747	30.01	34.61	31.66	56.86	89.82	106.02	-16.20 Peak	0.00
4 p 5924.995	30.04	34.65	31.67	51.67	84.69	88.20	-3.51 Peak	0.00

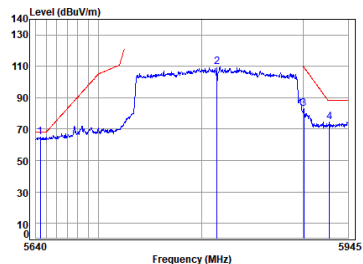
11be_VHT(160M)_TX_CH_H_Horizontal-Peak



Site : chamber
Condition: 3e HORIZONTAL
Job No : 00753TL00754TL
Mode : 5815 Band edge
: 5G WIFI 11BE160

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 p 5641.783	29.68	34.45	31.53	32.29	64.89	68.20	-3.31 Peak	0.00
2 5815.000	29.90	34.33	31.61	75.15	107.77	-----	Peak	0.00
3 5903.192	30.01	34.61	31.66	47.88	80.84	107.39	-26.55 Peak	0.00
4 5939.054	30.05	34.68	31.67	39.77	72.83	88.20	-15.37 Peak	0.00

11be_VHT(160M)_TX_CH_H_Vertical-Peak



Site : chamber
Condition: 3e VERTICAL
Job No : 00753TL00754TL
Mode : 5815 Band edge
: 5G WIFI 11BE160

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Remark	Aux Factor
MHz	dB	dB/m	dB	dBuV	dBuV/m	dB		dB
1 p 5644.160	29.68	34.44	31.53	32.45	65.04	68.20	-3.16 Peak	0.00
2 5815.000	29.90	34.33	31.61	76.88	109.50	-----	Peak	0.00
3 5900.706	30.01	34.60	31.65	49.91	82.87	109.58	-26.71 Peak	0.00
4 5926.244	30.04	34.65	31.67	41.71	74.73	88.20	-13.47 Peak	0.00

7.5 Duty Cycle

Test Requirement: ANSI C63.10 (2020) Section 12.2
 Test Method: ANSI C63.10 (2020) Section 12.2
 Test Engineer: Mingli Hu

7.5.1 E.U.T. Operation

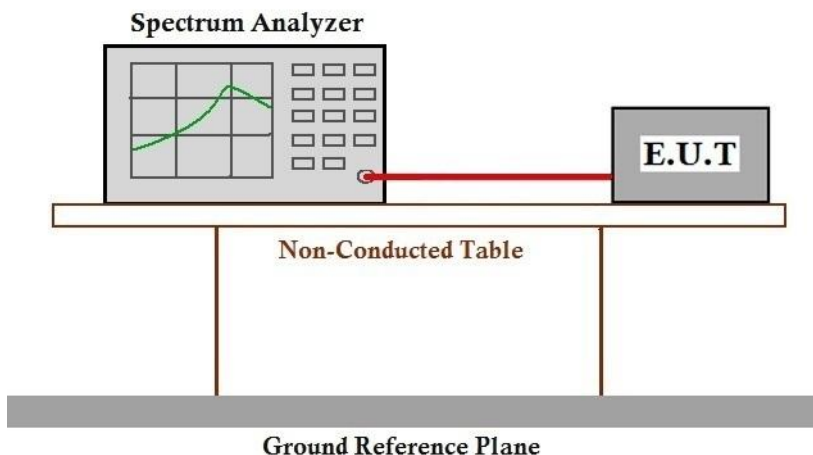
Operating Environment:

Temperature: 24.9 °C Humidity: 42.6 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.6 99% Bandwidth

Test Requirement ANSI C63.10 (2020) Section 12.5.3

Test Method: ANSI C63.10 (2020) Section 12.5.3

Test Engineer: Mingli Hu

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

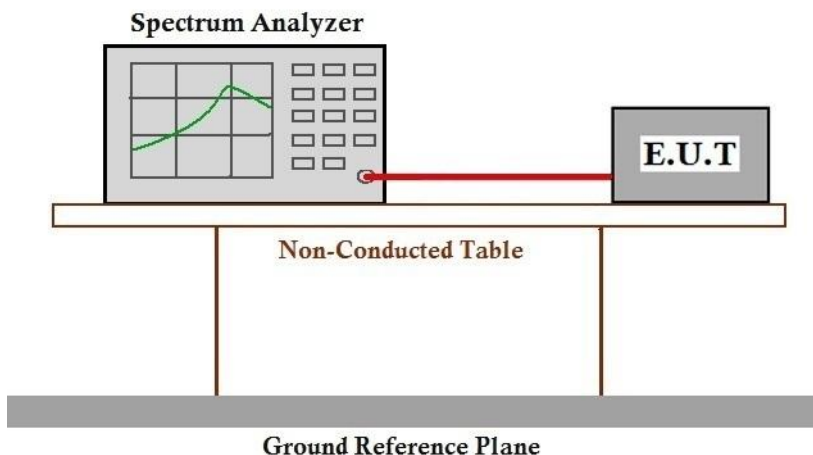
Humidity: 42.6 % RH

Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 26dB Emission Bandwidth

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)
 Test Method: ANSI C63.10 (2020) Section 12.5.2
 Test Engineer: Mingli Hu

7.7.1 E.U.T. Operation

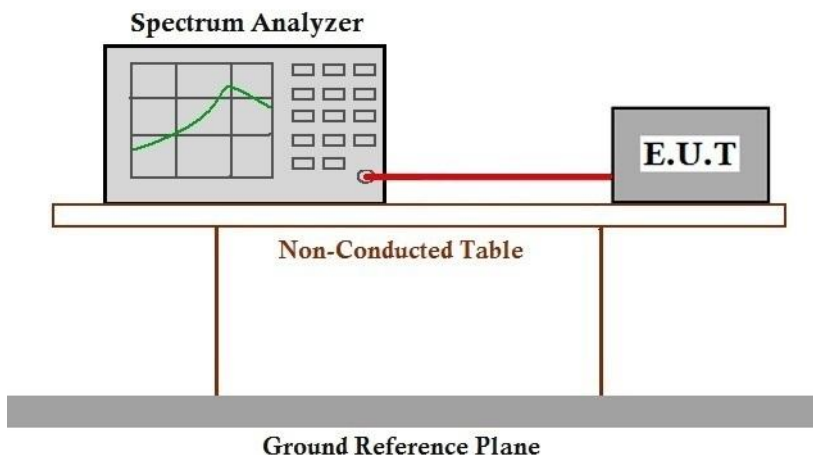
Operating Environment:

Temperature: 24.9 °C Humidity: 42.6 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZEMC-TRF-01 Rev. A/2

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7.8 Minimum 6 dB Bandwidth (5.850-5.895 GHz Band)

Test Requirement 47 CFR Part 15, Subpart E 15.407 (e)

Test Method: ANSI C63.10 (2020) Section 12.5.1

Test Engineer: Mingli Hu

Limit:

Frequency band(MHz)	Limit
5.850-5.895 GHz	≥500 kHz

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

Humidity: 42.6 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.



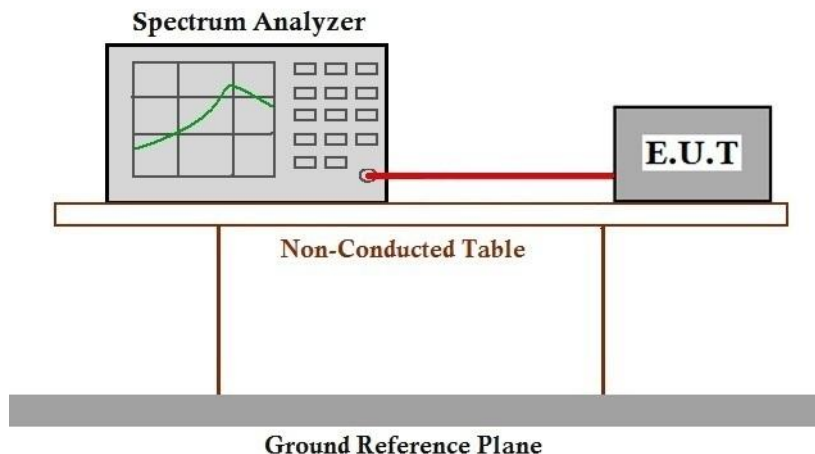
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7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.9 Maximum Conducted Output Power

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.4

Test Engineer: Mingli Hu

Limit:

Frequency band(MHz)	Limit
5850-5895	≤36dBm (EIRP)
Remark:	The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

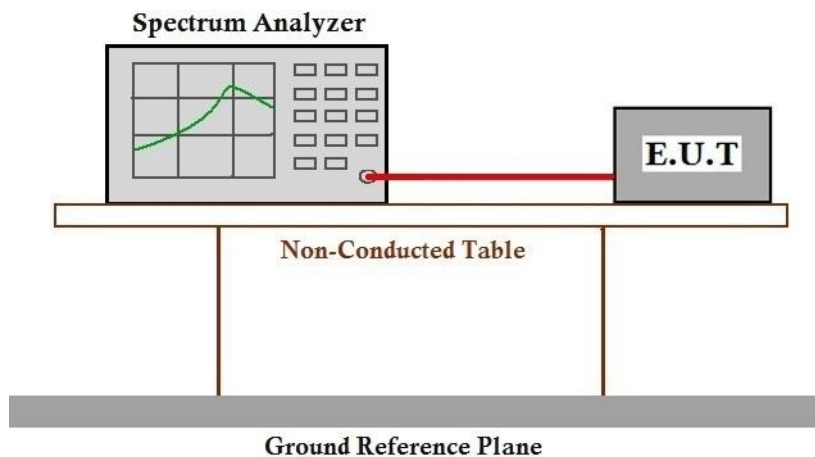
Humidity: 42.6 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.9.3 Test Setup Diagram



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7.9.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

AV Output power Level = Reading level + Cable loss + DCCF

Please Refer to Appendix for Details



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7.10 Power Spectral Density

Test Requirement 47 CFR Part 15, Subpart E 15.407 (a)

Test Method: ANSI C63.10 (2020) Section 12.6

Test Engineer: Mingli Hu

Limit:

Frequency band(MHz)	Limit
5850-5895	≤20 dBm e.i.r.p. in any 1-megahertz band
Remark:	The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test.

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 24.9 °C

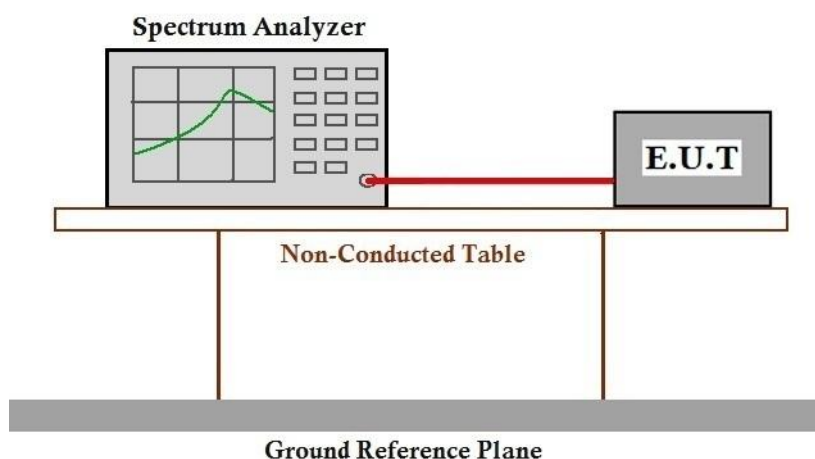
Humidity: 42.6 % RH

Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.10.3 Test Setup Diagram



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7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.11 Frequency Stability

Test Requirement 47 CFR Part 15, Subpart E 15.407 (g)
 Test Method: ANSI C63.10 (2020) Section 6.8
 Test Engineer: Mingli Hu

7.11.1 E.U.T. Operation

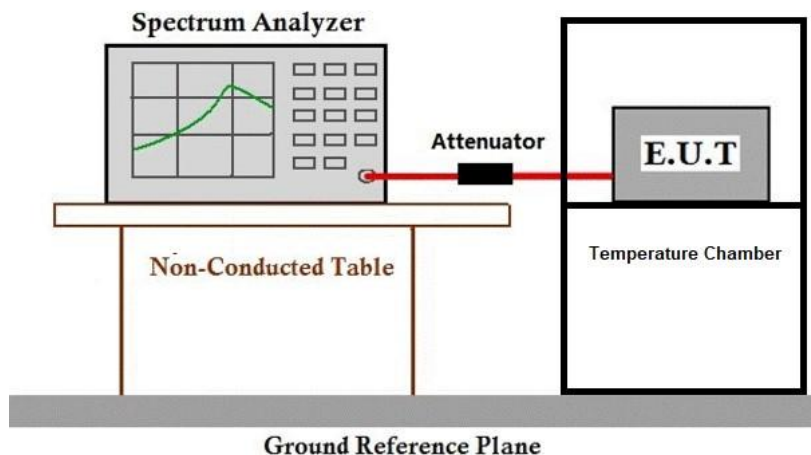
Operating Environment:

Temperature: 24.9 °C Humidity: 42.6 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	15	TX mode (U-NII-4) _Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 6Mbps is the worst case of IEEE 802.11a; data rate @ MCS0 is the worst case of IEEE 802.11n/ac/ax/be 20/40/80/160, Only the data of worst case is recorded in the report.

7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2603000753TL

9 EUT Constructional Details (EUT Photos)

Refer to Appendix – External and Internal Photos for SZCR2603000753TL



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10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5865	/	/	1.392	1.453	95.80	0.19	0.60
		5885	/	/	1.392	1.454	95.74	0.19	0.60
		5845	/	/	1.392	1.454	95.74	0.19	0.63
802.11n (HT20)	MIMO	5865	/	/	1.308	1.370	95.47	0.20	0.66
		5885	/	/	1.308	1.370	95.47	0.20	0.69
		5845	/	/	1.309	1.370	95.55	0.20	0.66
802.11n (HT40)	MIMO	5875	/	/	0.649	0.710	91.41	0.39	1.22
		5835	/	/	0.649	0.710	91.41	0.39	1.19
802.11ac (VHT20)	MIMO	5865	/	/	0.681	0.742	91.78	0.37	1.20
		5885	/	/	0.680	0.742	91.64	0.38	1.17
		5845	/	/	0.681	0.742	91.78	0.37	1.14
802.11ac (VHT40)	MIMO	5875	/	/	0.353	0.414	85.27	0.69	1.97
		5835	/	/	0.353	0.414	85.27	0.69	1.94
802.11ac (VHT80)	MIMO	5855	/	/	0.190	0.250	76.00	1.19	2.89
802.11ac (VHT160)	MIMO	5815	/	/	0.117	0.178	65.73	1.82	3.60
802.11ax (HEW20)	MIMO	5865	SU	/	0.202	0.264	76.52	1.16	2.73
		5885	SU	/	0.203	0.264	76.89	1.14	2.80
		5845	SU	/	0.202	0.263	76.81	1.15	2.76
802.11ax (HEW40)	MIMO	5875	SU	/	0.204	0.265	76.98	1.14	2.79
		5835	SU	/	0.206	0.265	77.74	1.09	2.82
802.11ax (HEW80)	MIMO	5855	SU	/	0.197	0.256	76.95	1.14	2.91
802.11ax (HEW160)	MIMO	5815	SU	/	0.201	0.260	77.31	1.12	2.93
802.11be	MIMO	5865	SU	/	0.239	0.298	80.20	0.96	2.56



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(EHT20)		5885	SU	/	0.237	0.298	79.53	0.99	2.60
		5845	SU	/	0.237	0.298	79.53	0.99	2.57
802.11be (EHT40)	MIMO	5875	SU	/	0.240	0.301	79.73	0.98	2.49
		5835	SU	/	0.241	0.302	79.80	0.98	2.49
802.11be (EHT80)	MIMO	5855	SU	/	0.231	0.290	79.66	0.99	2.66
802.11be (EHT160)	MIMO	5815	SU	/	0.232	0.293	79.18	1.01	2.58



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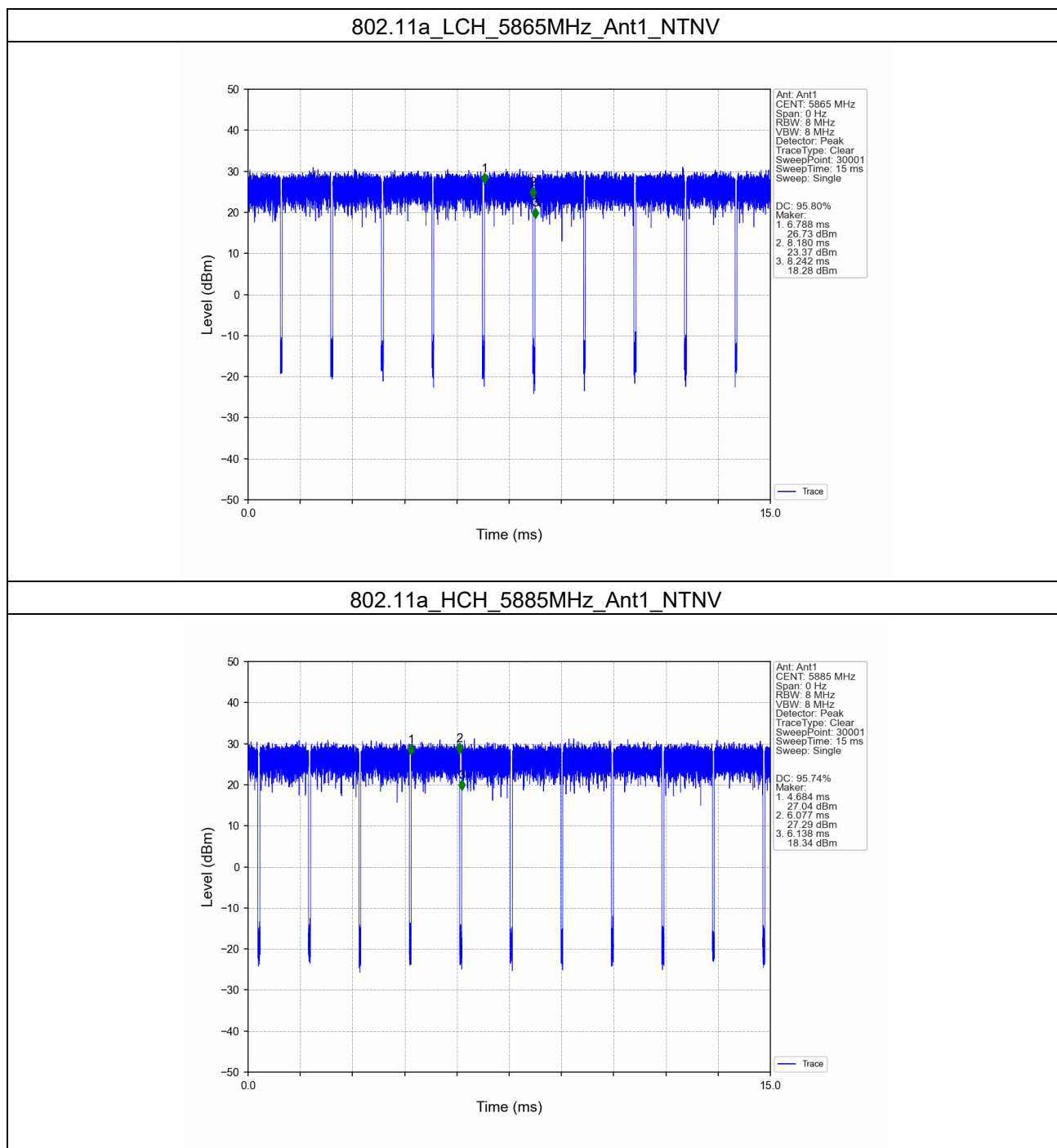
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1.2 Test Graph

1.2.1 Ant1



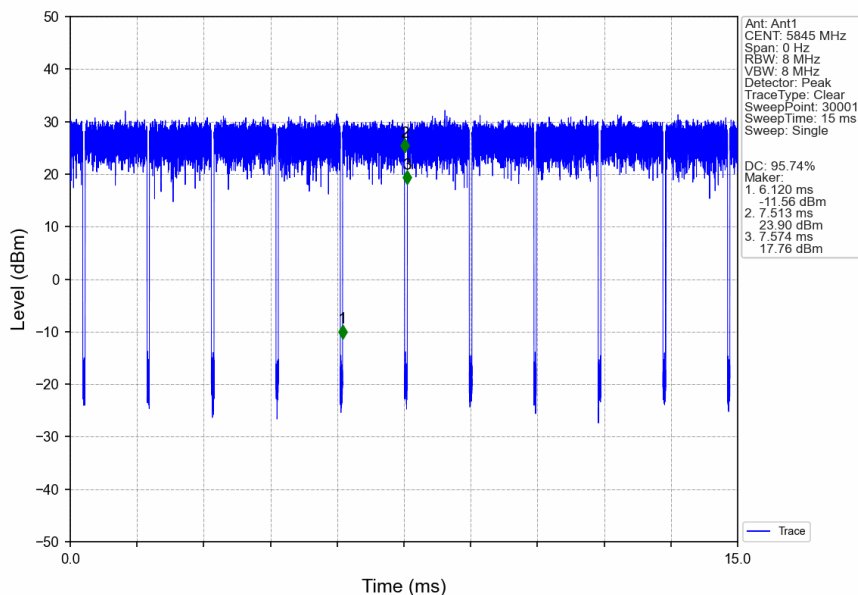
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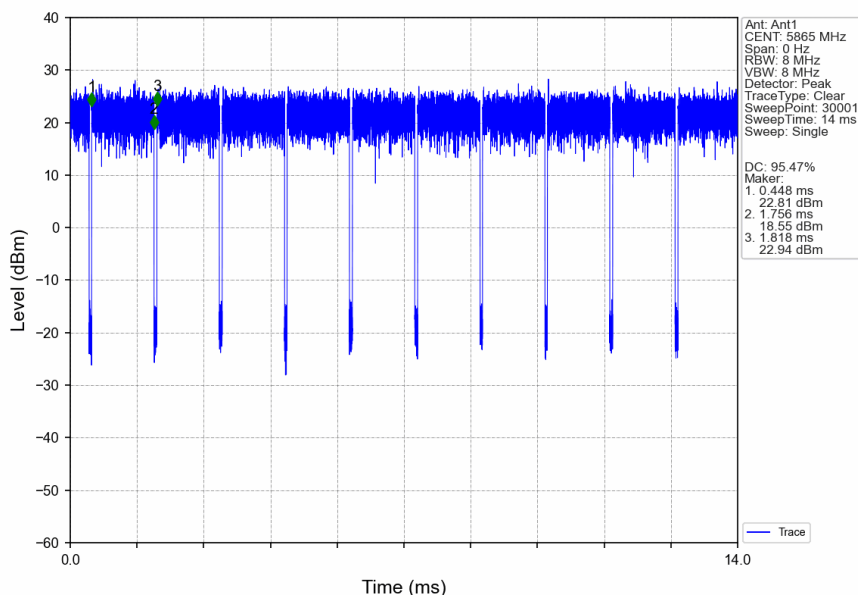
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802.11a_HCH_5845MHz_Ant1_NTNV



802.11n(HT20)_LCH_5865MHz_Ant1_NTNV



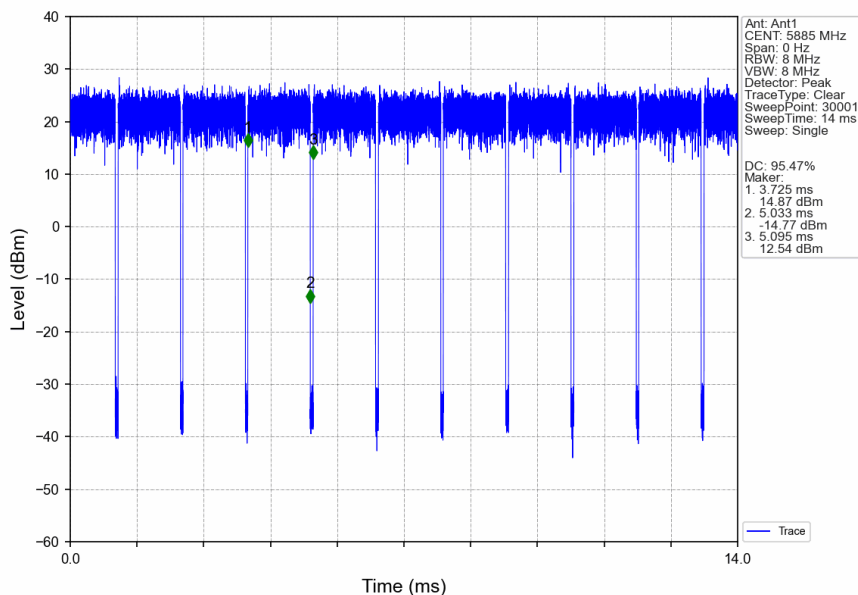
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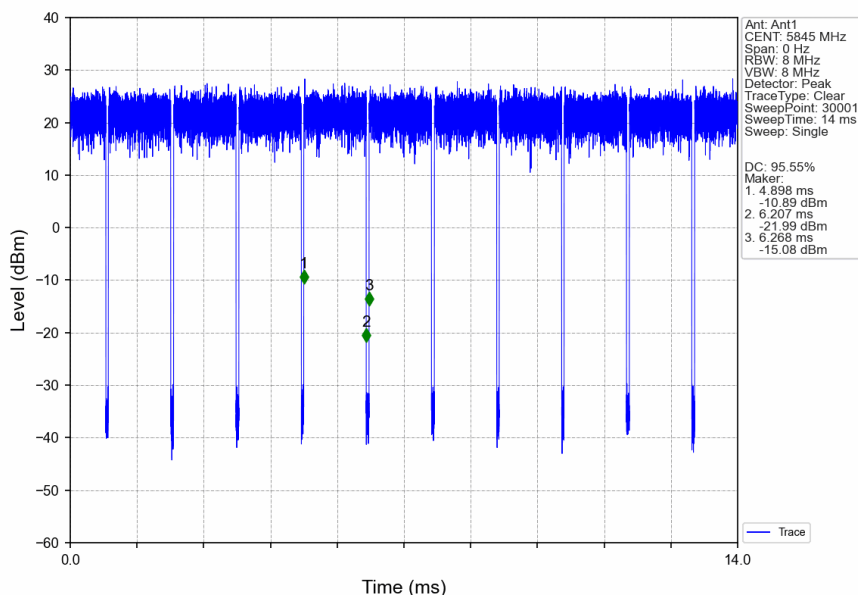
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802.11n(HT20)_HCH_5885MHz_Ant1_NTNV



802.11n(HT20)_HCH_5845MHz_Ant1_NTNV



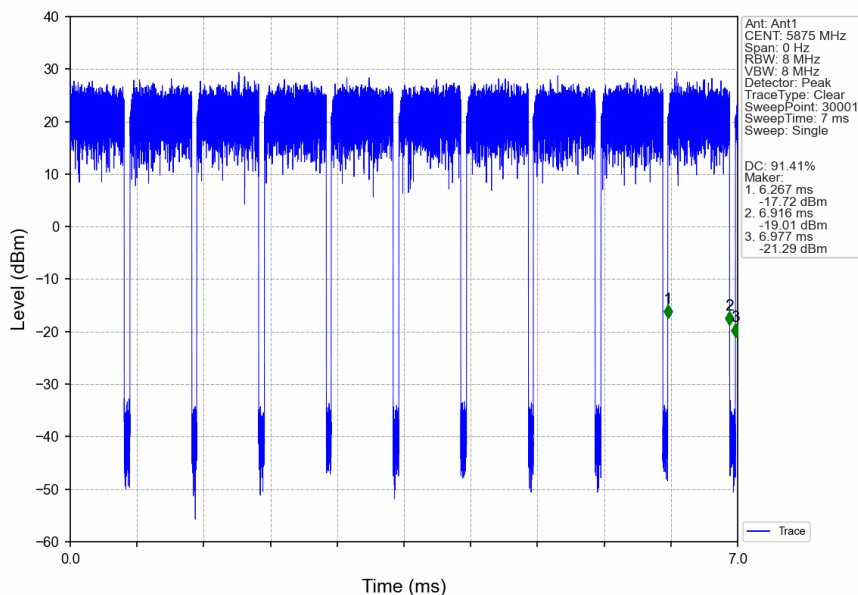
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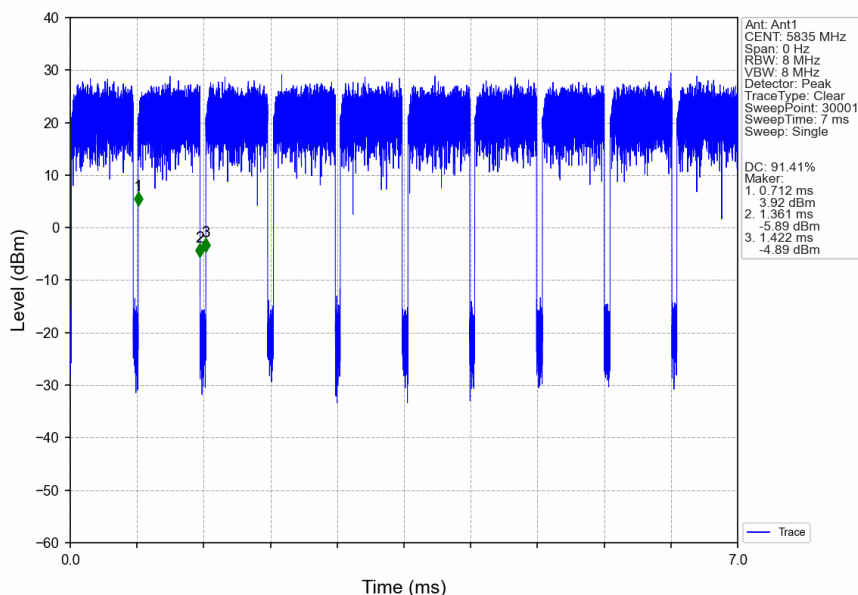
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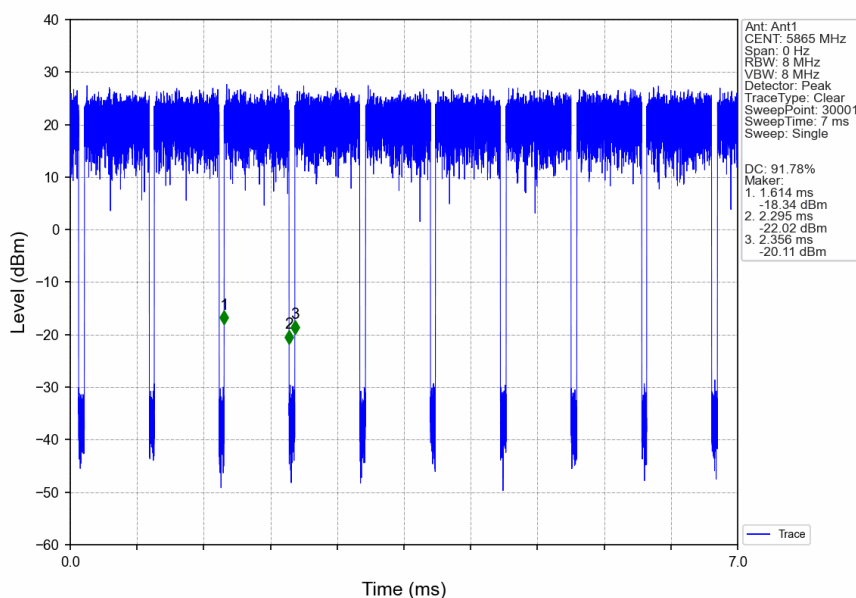
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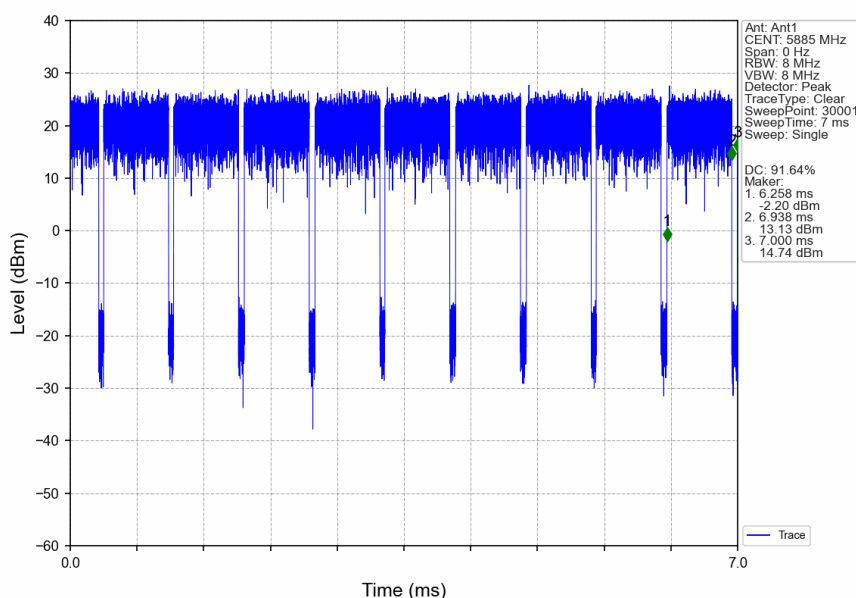
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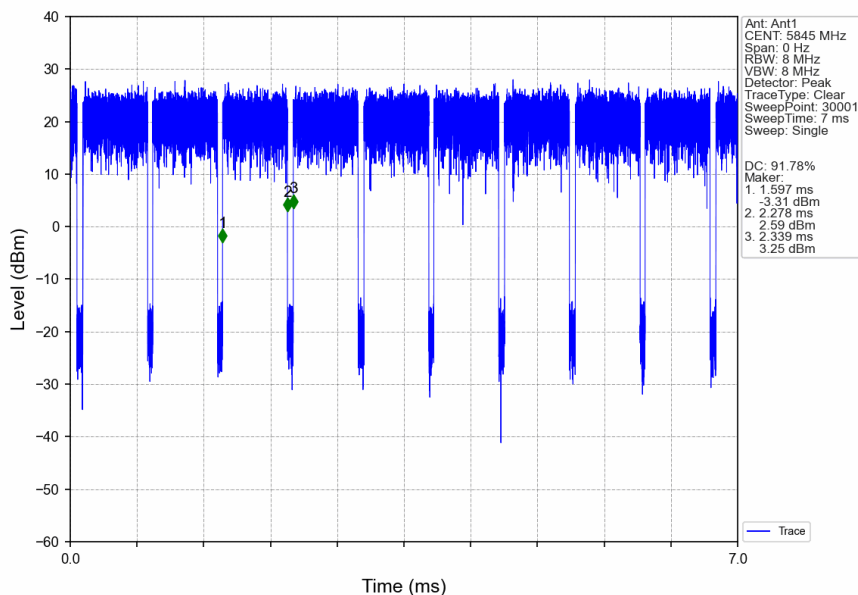
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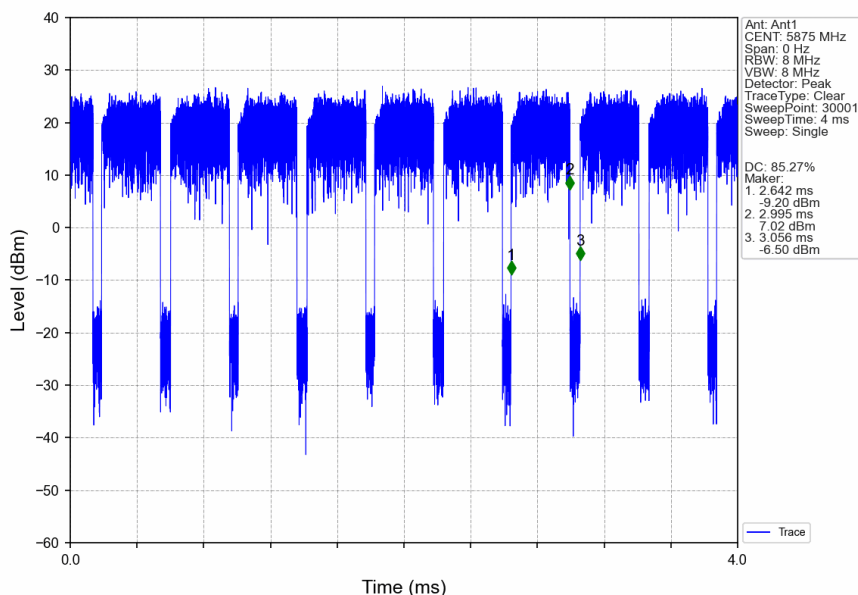
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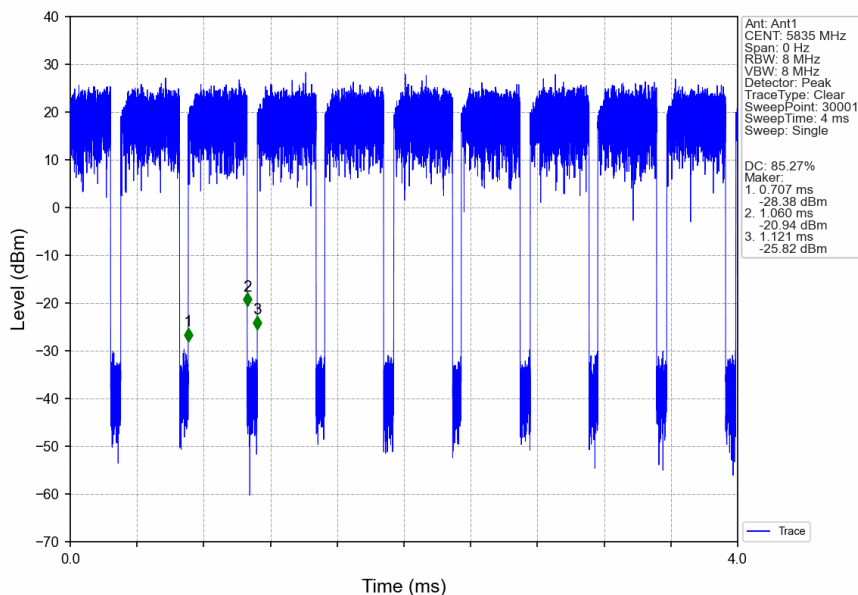


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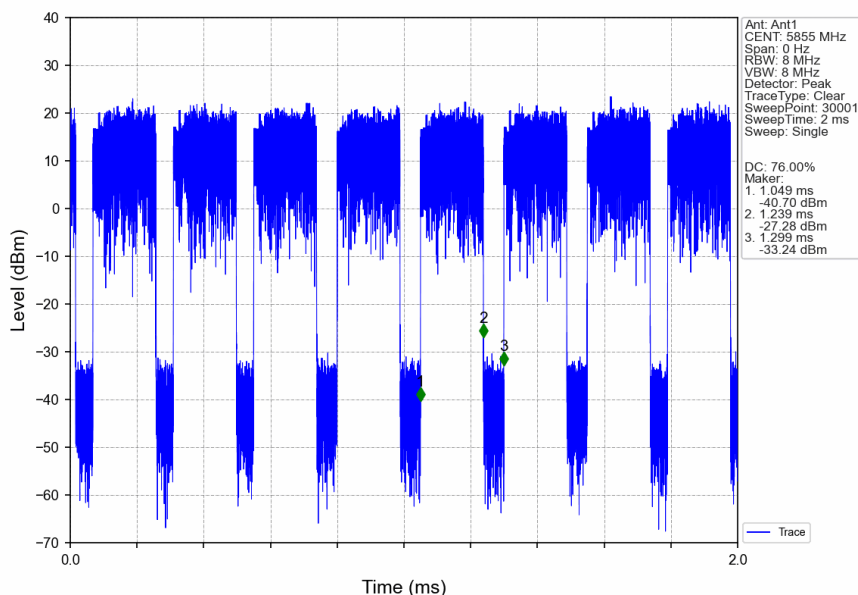
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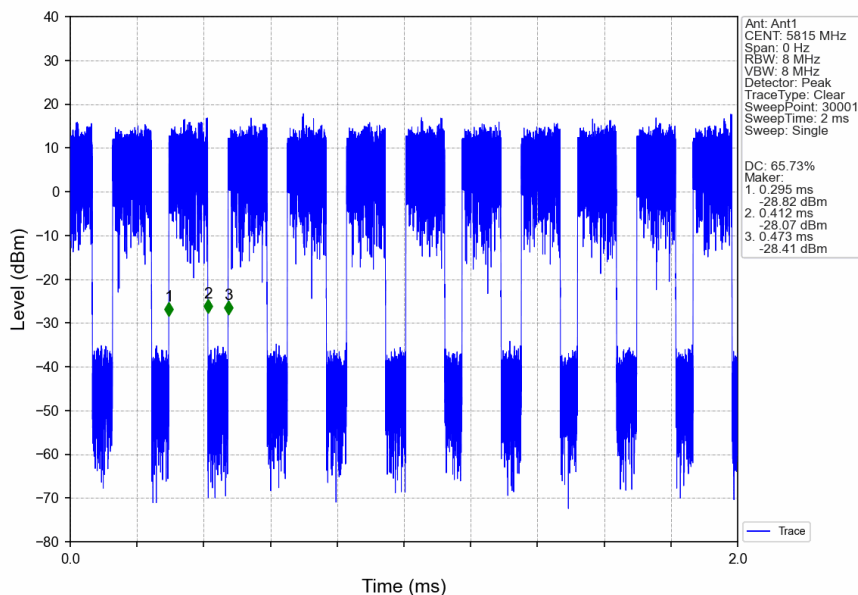
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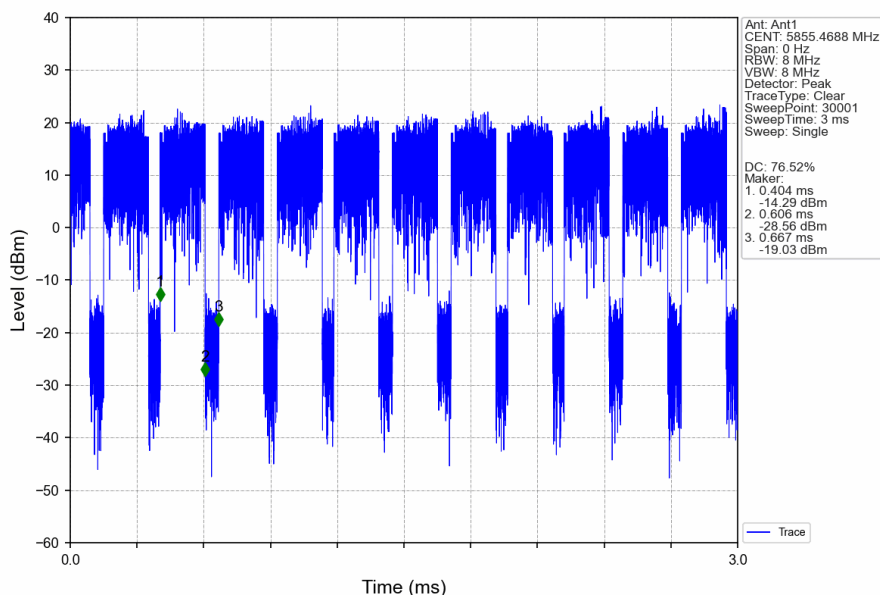
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802.11ac(VHT160)_HCH_5815MHz_Ant1_NTNV



802.11ax(HEW20)_LCH_5865MHz_SU_/_Ant1_NTNV



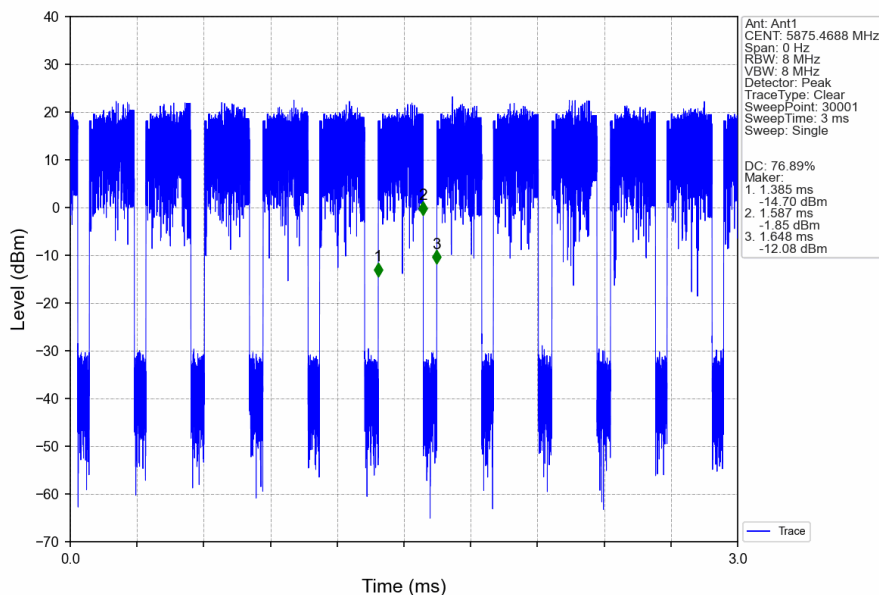
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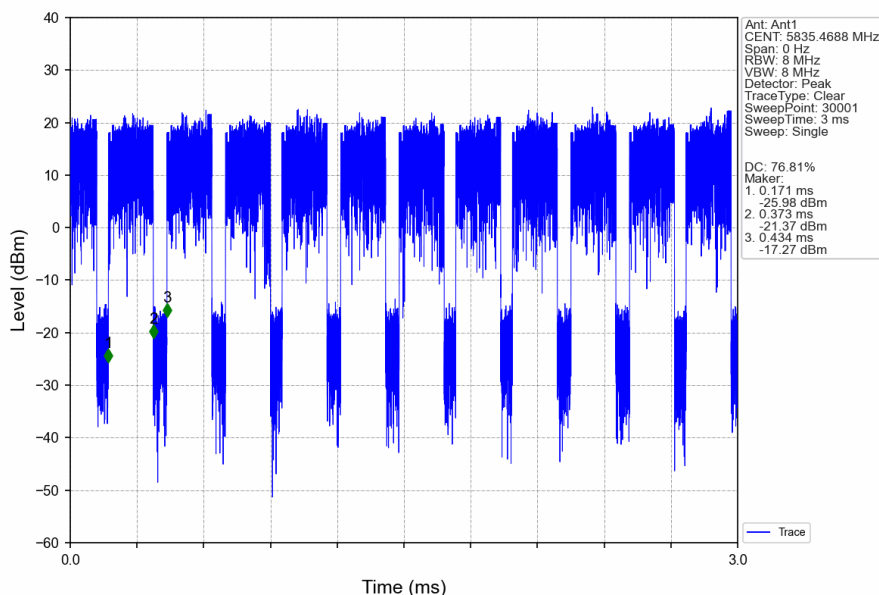
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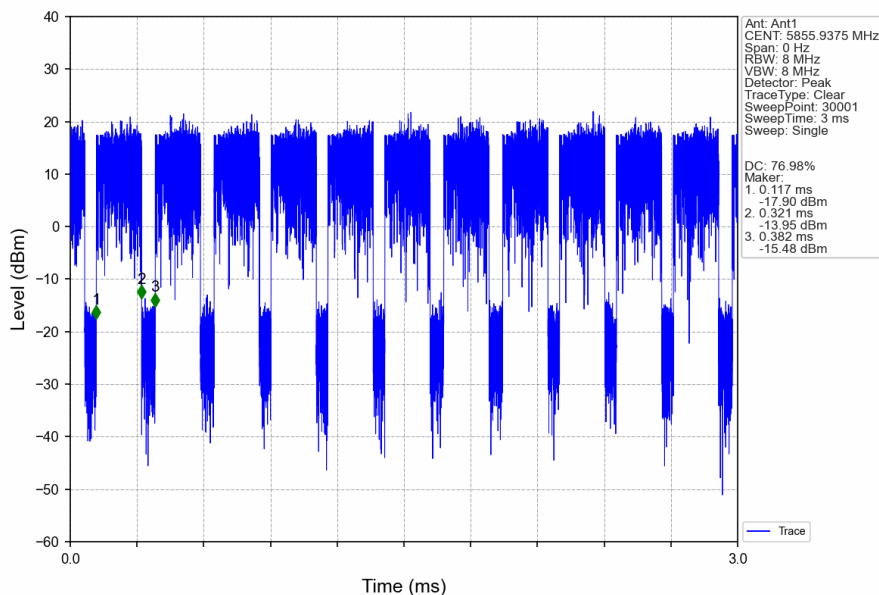
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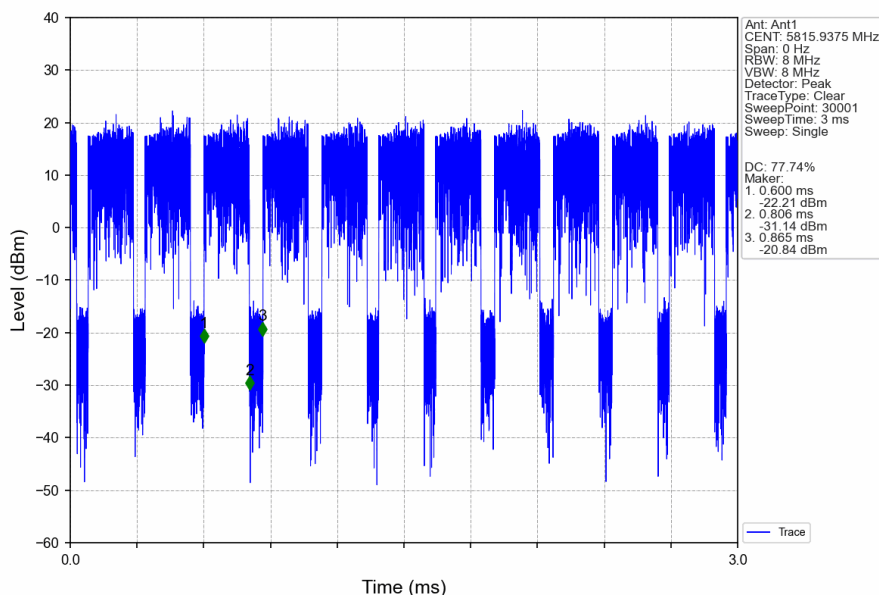
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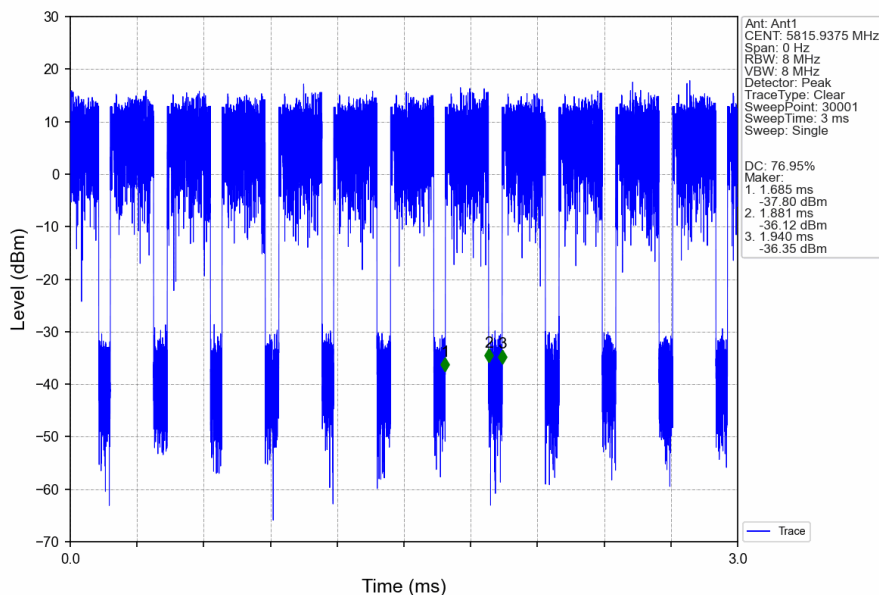
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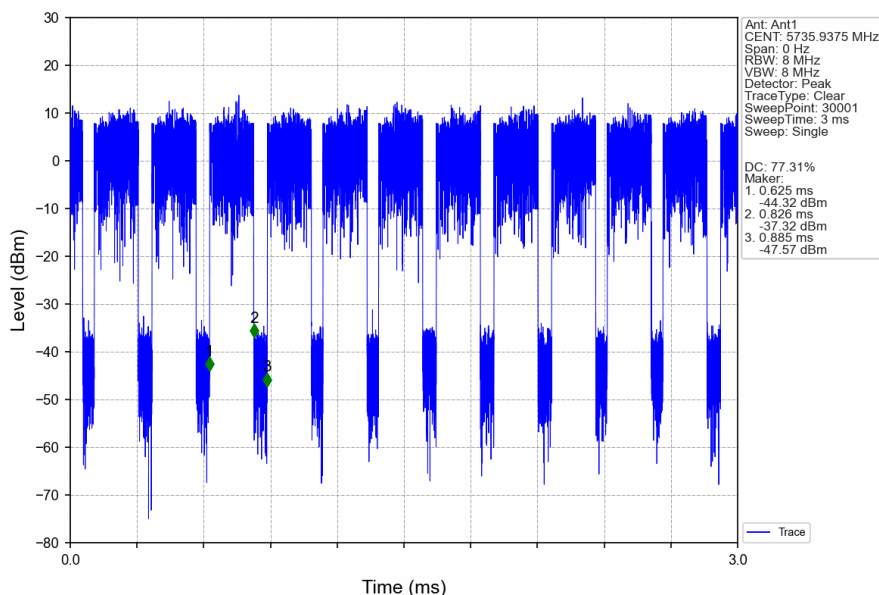
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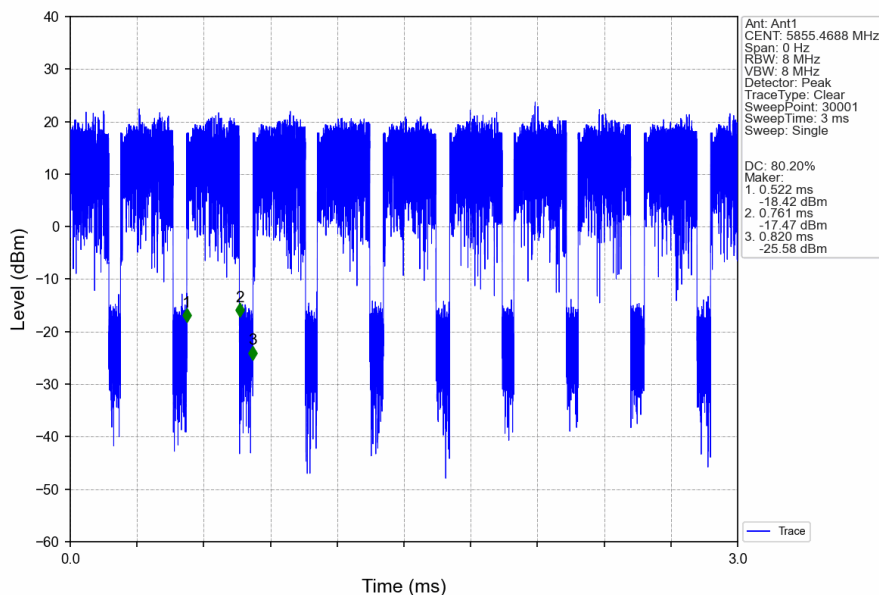
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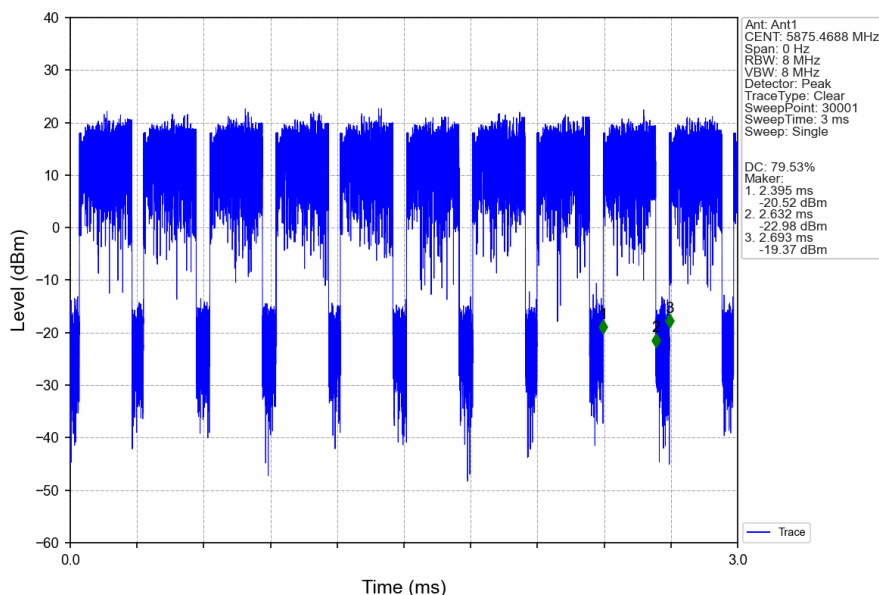
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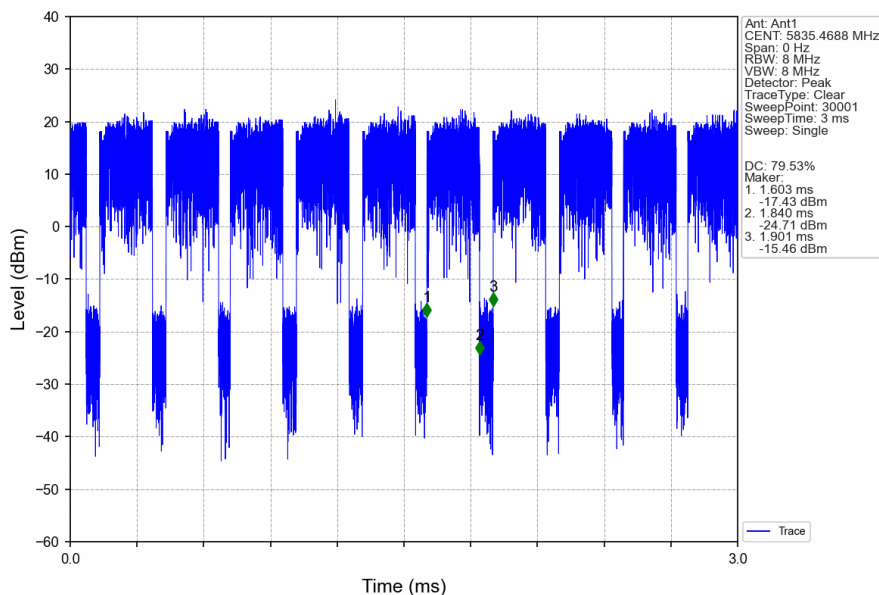
802.11be(EHT20)_LCH_5865MHz_SU_/_Ant1_NTNV



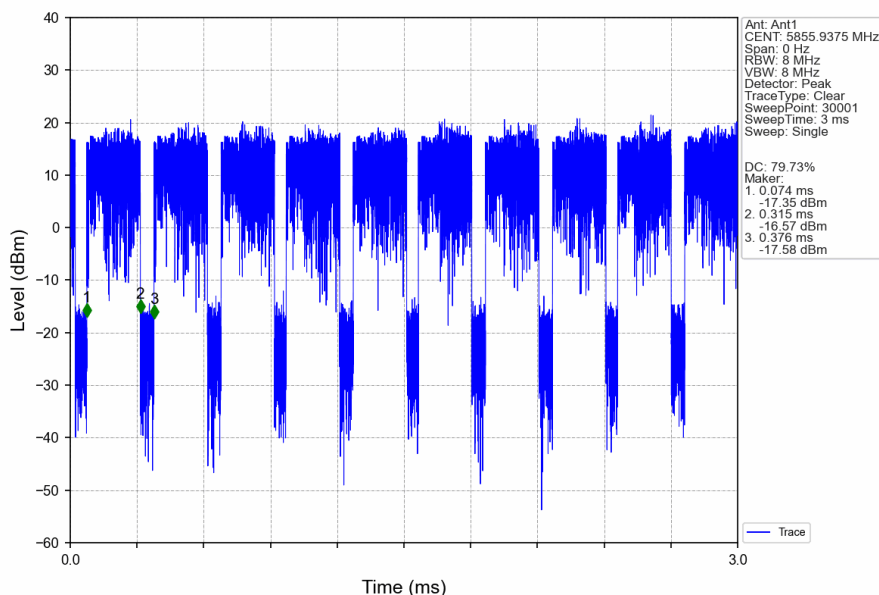
802.11be(EHT20)_HCH_5885MHz_SU_/_Ant1_NTNV



802.11be(EHT20)_HCH_5845MHz_SU_/_Ant1_NTNV



802.11be(EHT40)_MCH_5875MHz_SU_/_Ant1_NTNV



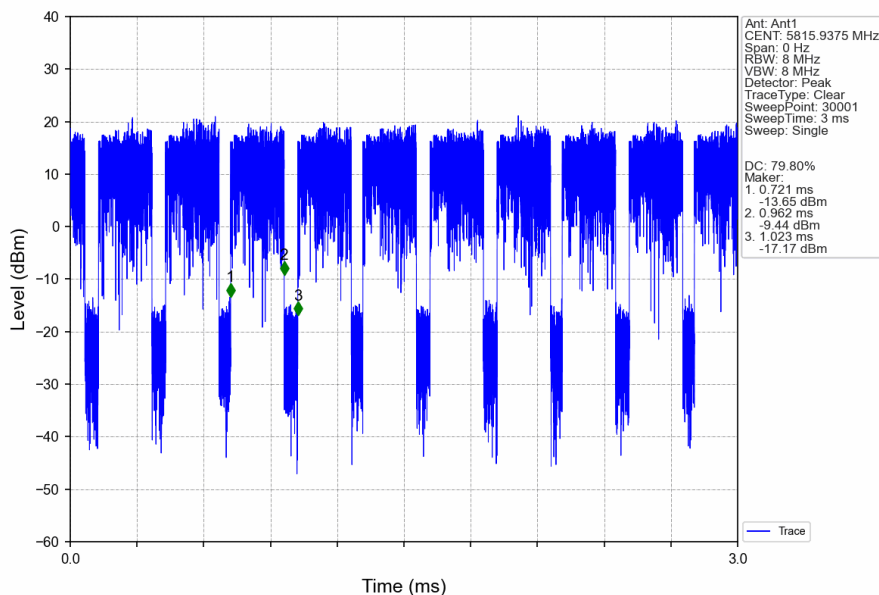
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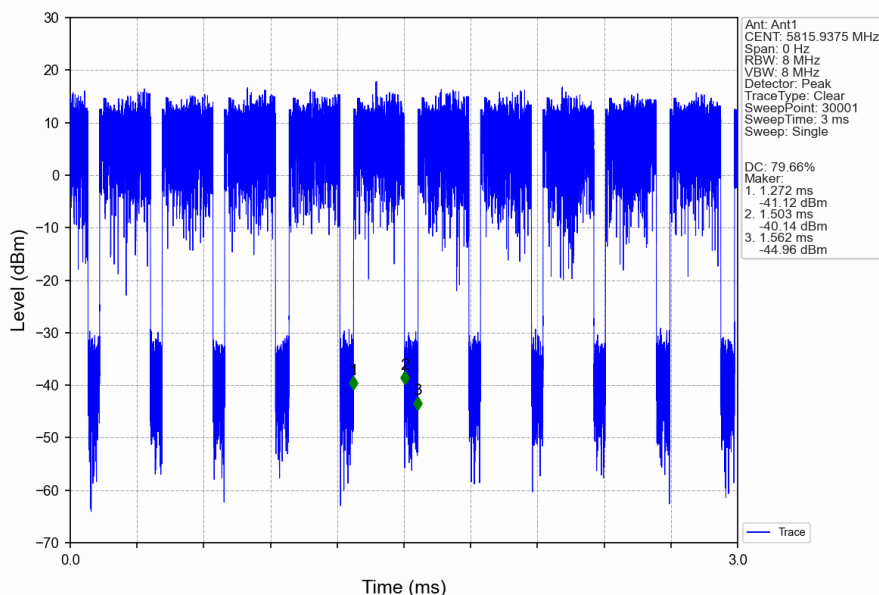
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802.11be(EHT40)_HCH_5835MHz_SU_ / _Ant1_NTNV



802.11be(EHT80)_HCH_5855MHz_SU_ / _Ant1_NTNV



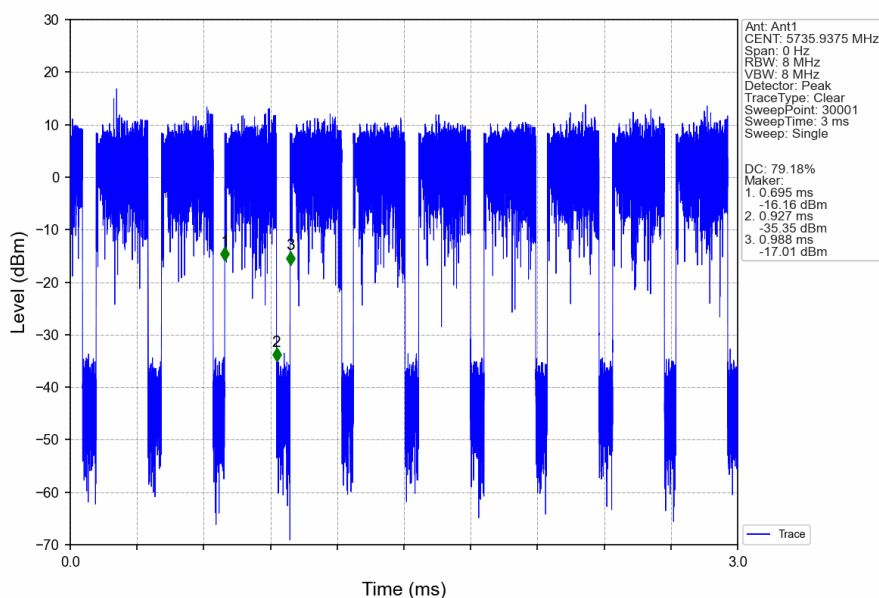
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802.11be(EHT160)_HCH_5815MHz_SU_/_Ant1_NTNV



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2. Bandwidth

2.1 Test Result

2.1.1 OBW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5865	/	/	1	16.804	/	Pass
		5885	/	/	1	16.817	/	Pass
		5845	/	/	1	16.728	/	Pass
802.11n (HT20)	MIMO	5865	/	/	1	17.489	/	Pass
		5885	/	/	1	17.497	/	Pass
		5845	/	/	1	17.493	/	Pass
802.11n (HT40)	MIMO	5875	/	/	1	36.177	/	Pass
		5835	/	/	1	36.242	/	Pass
802.11ac (VHT20)	MIMO	5865	/	/	1	17.499	/	Pass
		5885	/	/	1	17.502	/	Pass
		5845	/	/	1	17.514	/	Pass
802.11ac (VHT40)	MIMO	5875	/	/	1	36.081	/	Pass
		5835	/	/	1	36.068	/	Pass
802.11ac (VHT80)	MIMO	5855	/	/	1	75.276	/	Pass
802.11ac (VHT160)	MIMO	5815	/	/	1	154.080	/	Pass
802.11ax (HEW20)	MIMO	5865	SU	/	1	18.864	/	Pass
		5885	SU	/	1	18.858	/	Pass
		5845	SU	/	1	18.890	/	Pass
802.11ax (HEW40)	MIMO	5875	SU	/	1	38.055	/	Pass
		5835	SU	/	1	38.117	/	Pass
802.11ax (HEW80)	MIMO	5855	SU	/	1	76.848	/	Pass
802.11ax (HEW160)	MIMO	5815	SU	/	1	155.791	/	Pass
802.11be (EHT20)	MIMO	5865	SU	/	1	18.851	/	Pass
		5885	SU	/	1	18.861	/	Pass
		5845	SU	/	1	18.867	/	Pass
802.11be (EHT40)	MIMO	5875	SU	/	1	37.904	/	Pass
		5835	SU	/	1	37.991	/	Pass



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802.11be (EHT80)	MIMO	5855	SU	/	1	77.299	/	Pass
802.11be (EHT160)	MIMO	5815	SU	/	1	155.650	/	Pass

2.1.2 6dB BW

Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	6dB Bandwidth (MHz)		Verdict
						Result	Limit	
802.11a	SISO	5865	/	/	1	16.072	>=0.5	Pass
		5885	/	/	1	16.045	>=0.5	Pass
		5845	/	/	1	16.059	>=0.5	Pass
802.11n (HT20)	MIMO	5865	/	/	1	15.916	>=0.5	Pass
		5885	/	/	1	16.821	>=0.5	Pass
		5845	/	/	1	16.584	>=0.5	Pass
802.11n (HT40)	MIMO	5875	/	/	1	35.108	>=0.5	Pass
		5835	/	/	1	35.023	>=0.5	Pass
802.11ac (VHT20)	MIMO	5865	/	/	1	16.959	>=0.5	Pass
		5885	/	/	1	16.936	>=0.5	Pass
		5845	/	/	1	16.828	>=0.5	Pass
802.11ac (VHT40)	MIMO	5875	/	/	1	35.037	>=0.5	Pass
		5835	/	/	1	35.123	>=0.5	Pass
802.11ac (VHT80)	MIMO	5855	/	/	1	75.063	>=0.5	Pass
802.11ac (VHT160)	MIMO	5815	/	/	1	155.074	>=0.5	Pass
802.11ax (HEW20)	MIMO	5865	SU	/	1	18.586	>=0.5	Pass
		5885	SU	/	1	18.175	>=0.5	Pass
		5845	SU	/	1	18.422	>=0.5	Pass
802.11ax (HEW40)	MIMO	5875	SU	/	1	33.894	>=0.5	Pass
		5835	SU	/	1	35.986	>=0.5	Pass
802.11ax (HEW80)	MIMO	5855	SU	/	1	75.121	>=0.5	Pass
802.11ax (HEW160)	MIMO	5815	SU	/	1	153.819	>=0.5	Pass
802.11be (EHT20)	MIMO	5865	SU	/	1	18.539	>=0.5	Pass
		5885	SU	/	1	18.863	>=0.5	Pass
		5845	SU	/	1	18.624	>=0.5	Pass
802.11be (EHT40)	MIMO	5875	SU	/	1	35.147	>=0.5	Pass
		5835	SU	/	1	35.146	>=0.5	Pass
802.11be (EHT80)	MIMO	5855	SU	/	1	75.125	>=0.5	Pass



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802.11be (EHT160)	MIMO	5815	SU	/	1	153.823	>=0.5	Pass
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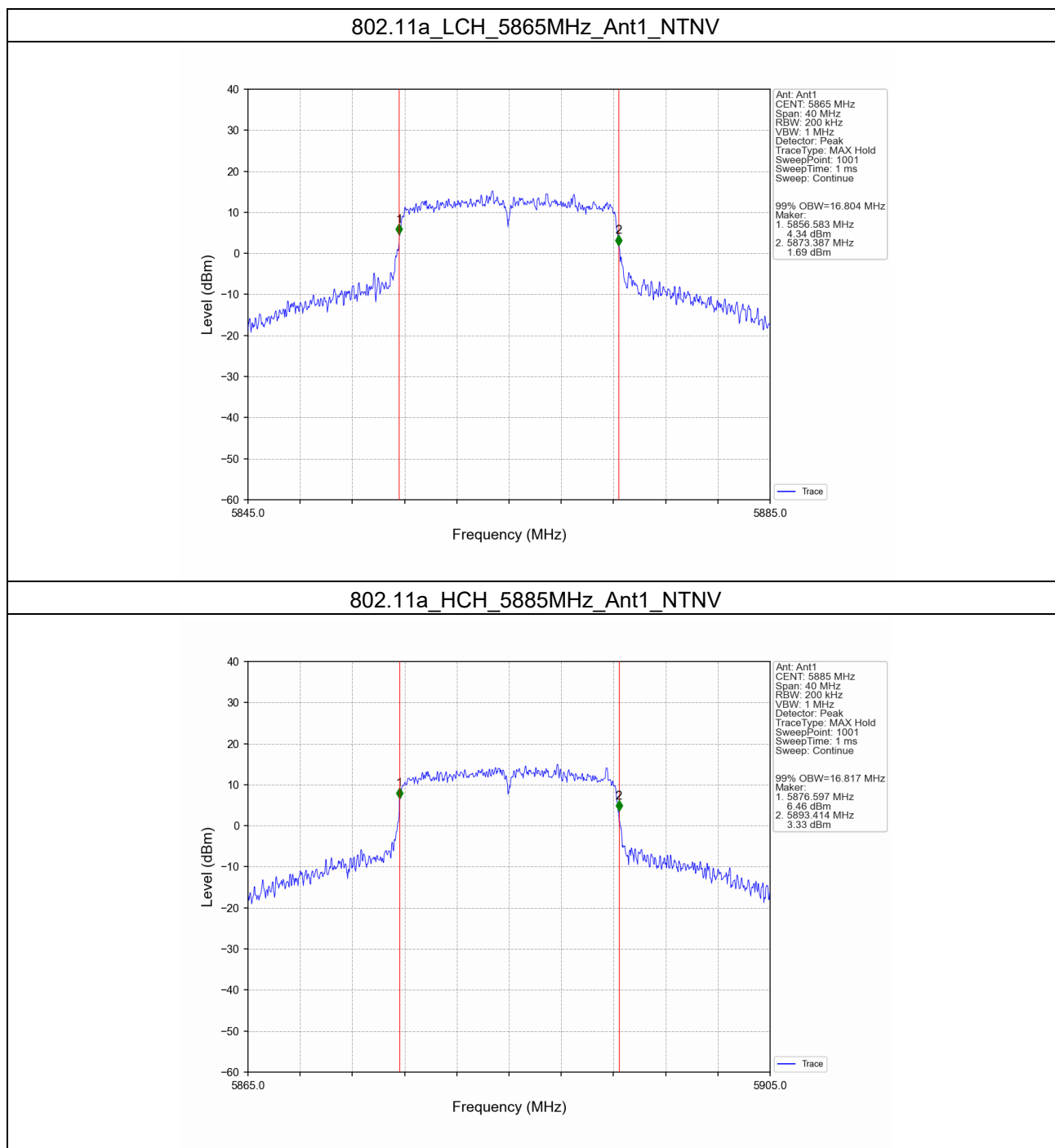
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2.2 Test Graph

2.2.1 OBW



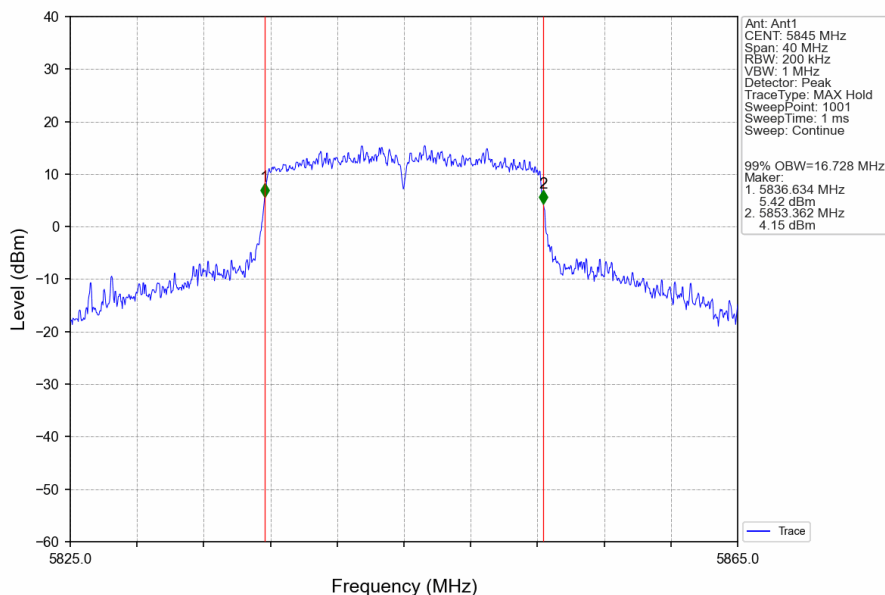
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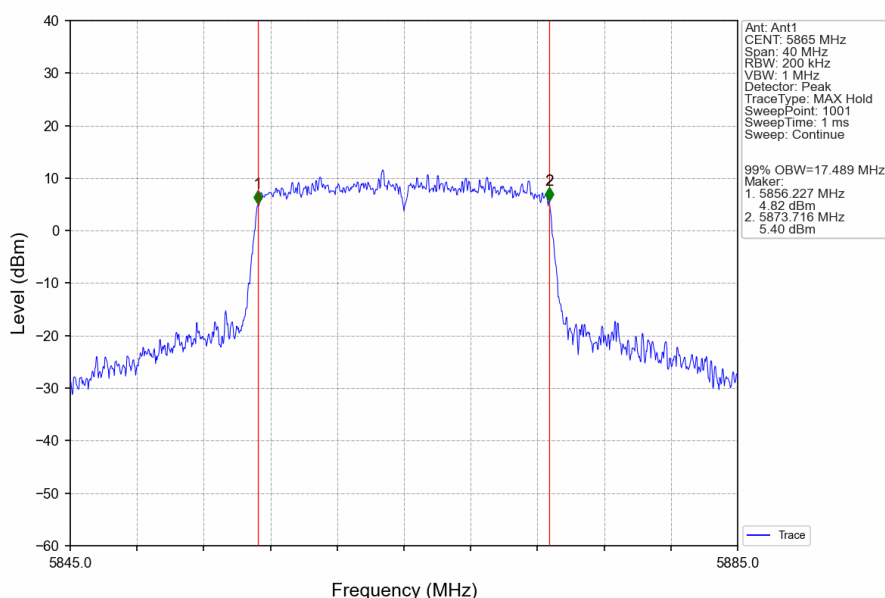
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802.11a_HCH_5845MHz_Ant1_NTNV



802.11n(HT20)_LCH_5865MHz_Ant1_NTNV

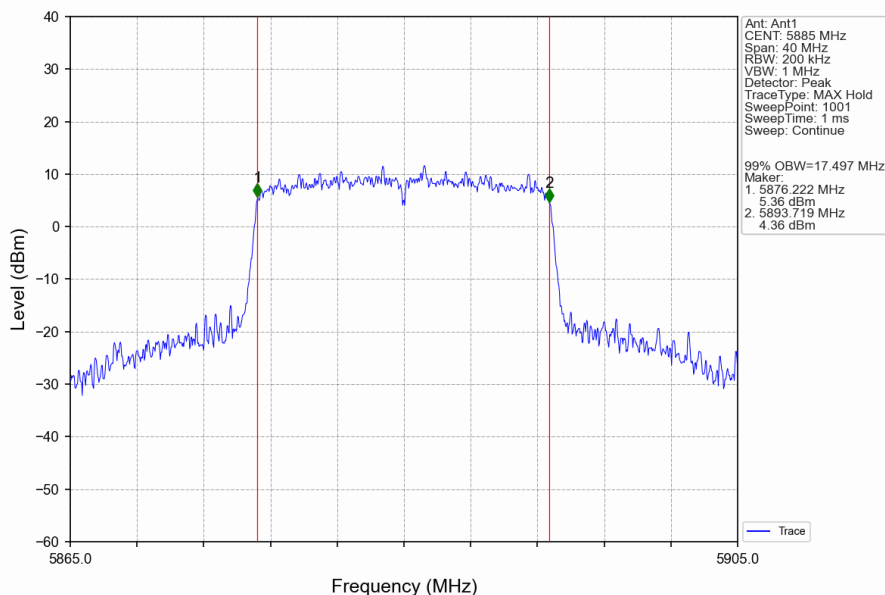


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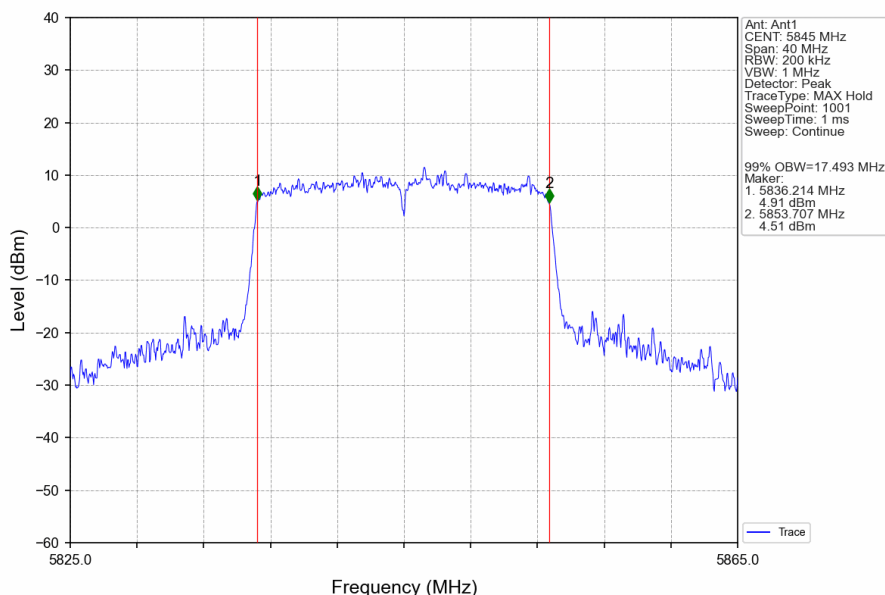
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802.11n(HT20)_HCH_5885MHz_Ant1_NTNV



802.11n(HT20)_HCH_5845MHz_Ant1_NTNV

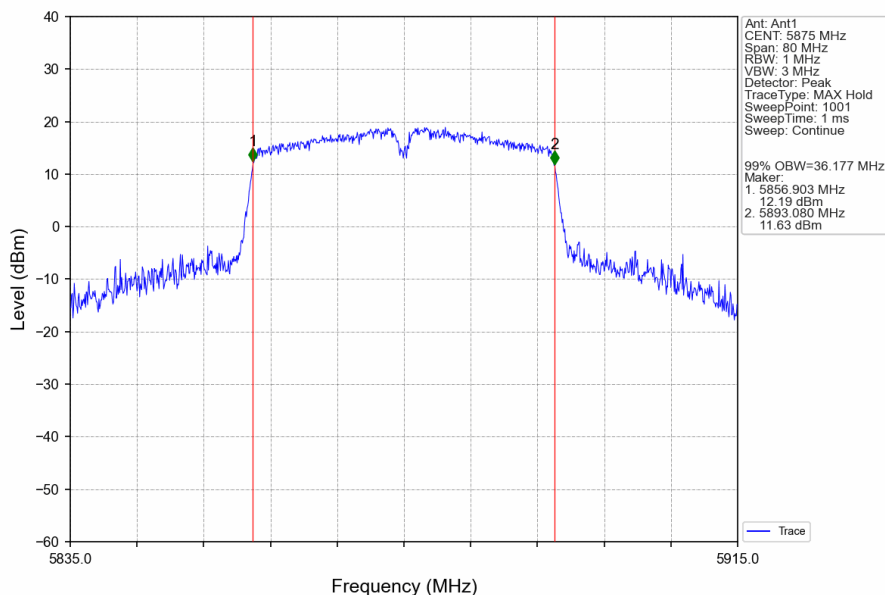


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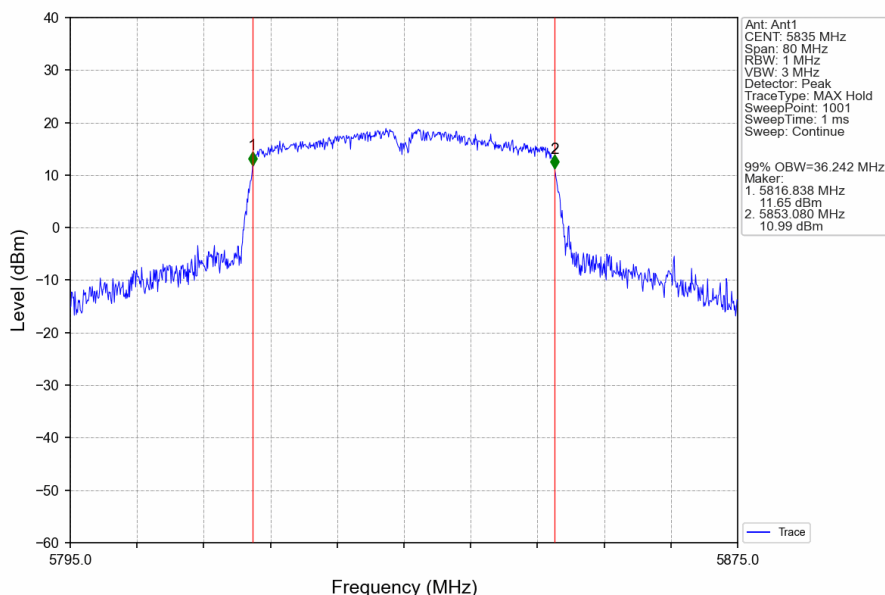
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802.11n(HT40)_MCH_5875MHz_Ant1_NTNV



802.11n(HT40)_HCH_5835MHz_Ant1_NTNV

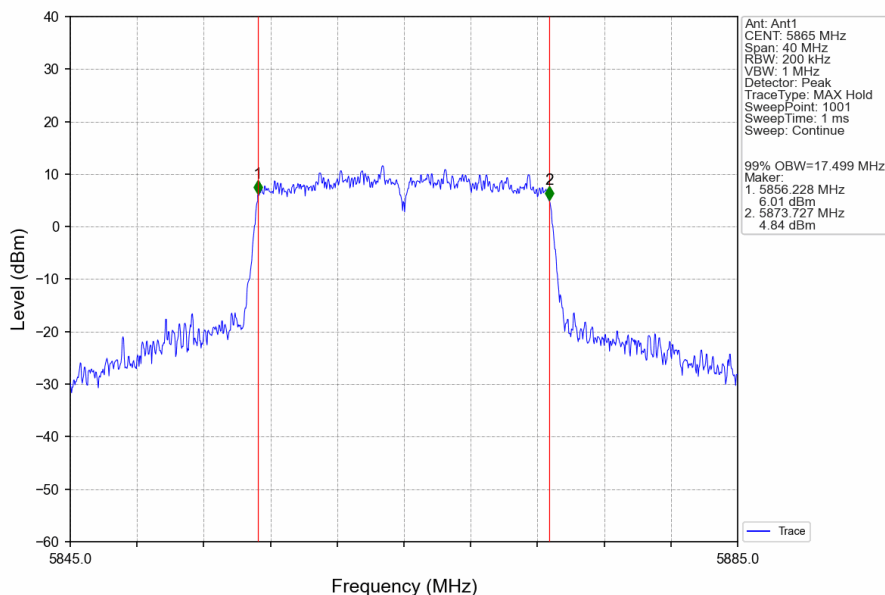


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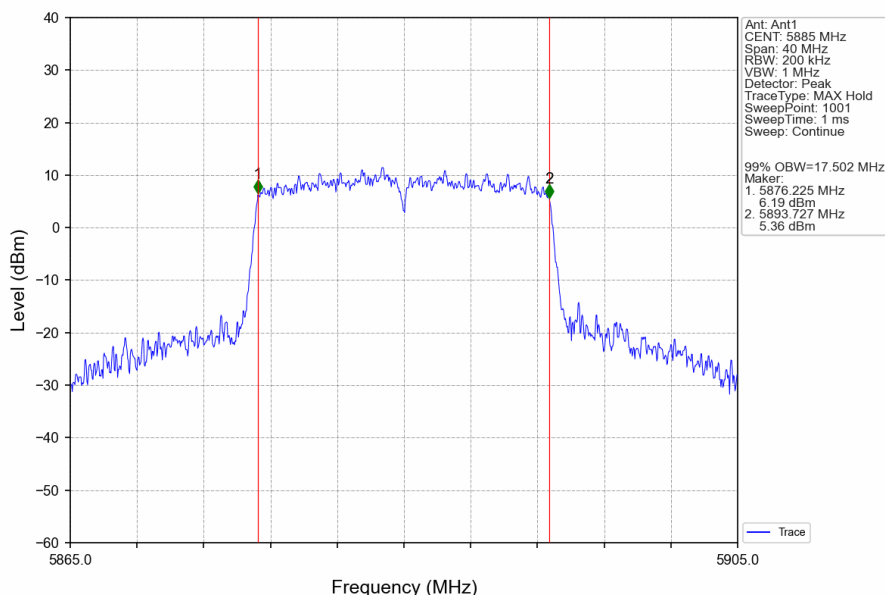
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802.11ac(VHT20)_LCH_5865MHz_Ant1_NTNV



802.11ac(VHT20)_HCH_5885MHz_Ant1_NTNV

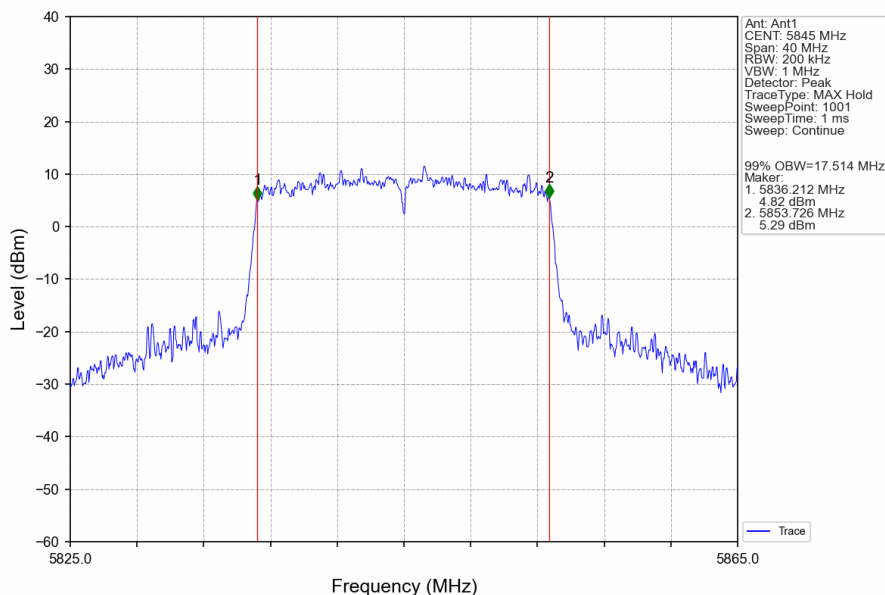


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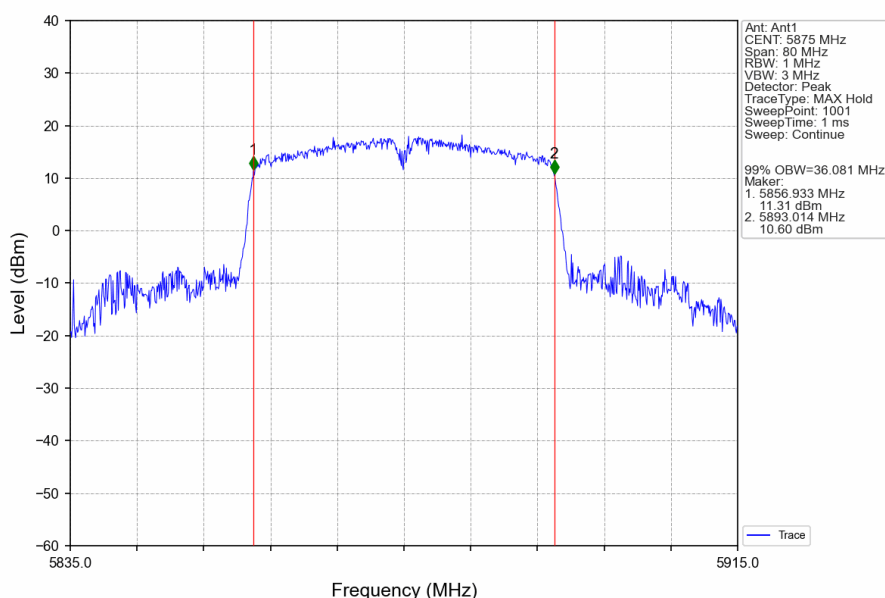
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802.11ac(VHT20)_HCH_5845MHz_Ant1_NTNV



802.11ac(VHT40)_MCH_5875MHz_Ant1_NTNV



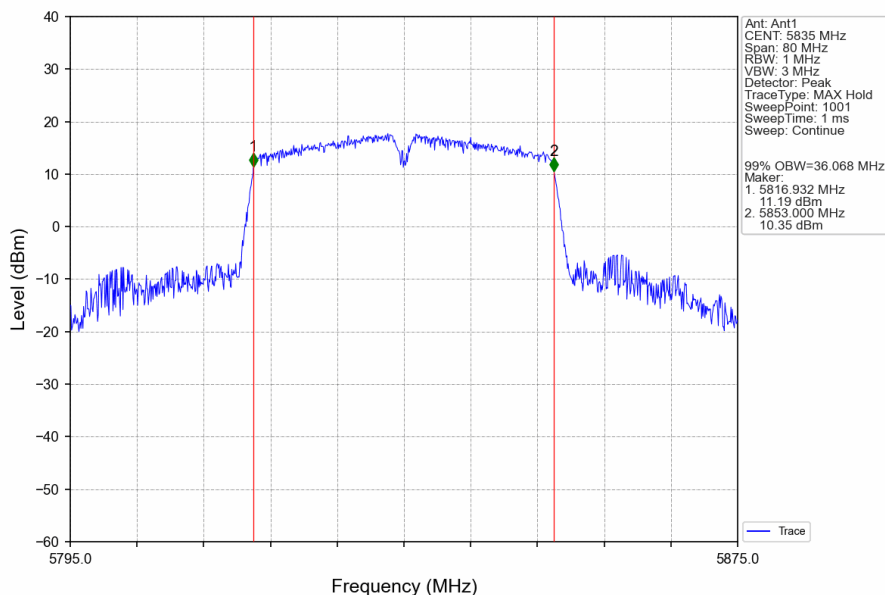
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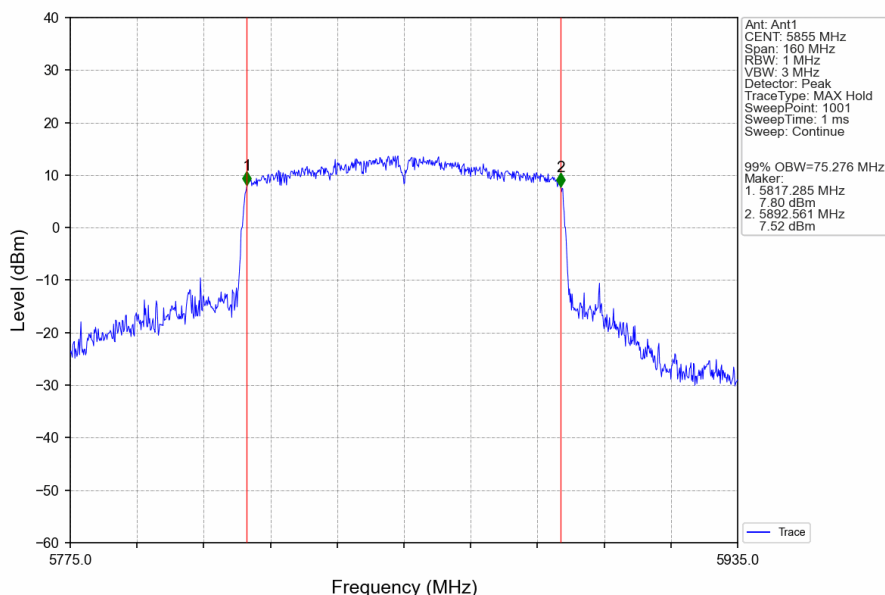
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802.11ac(VHT40)_HCH_5835MHz_Ant1_NTNV



802.11ac(VHT80)_HCH_5855MHz_Ant1_NTNV



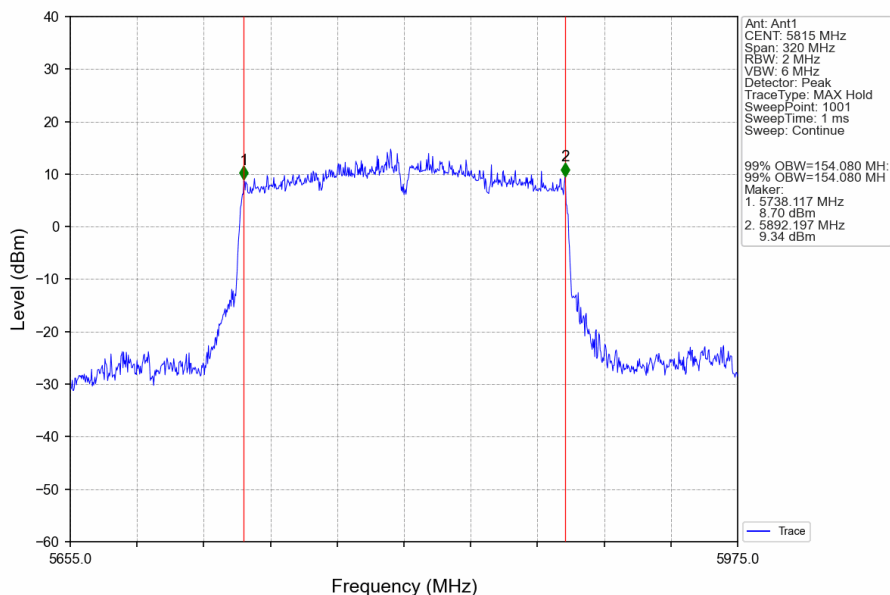
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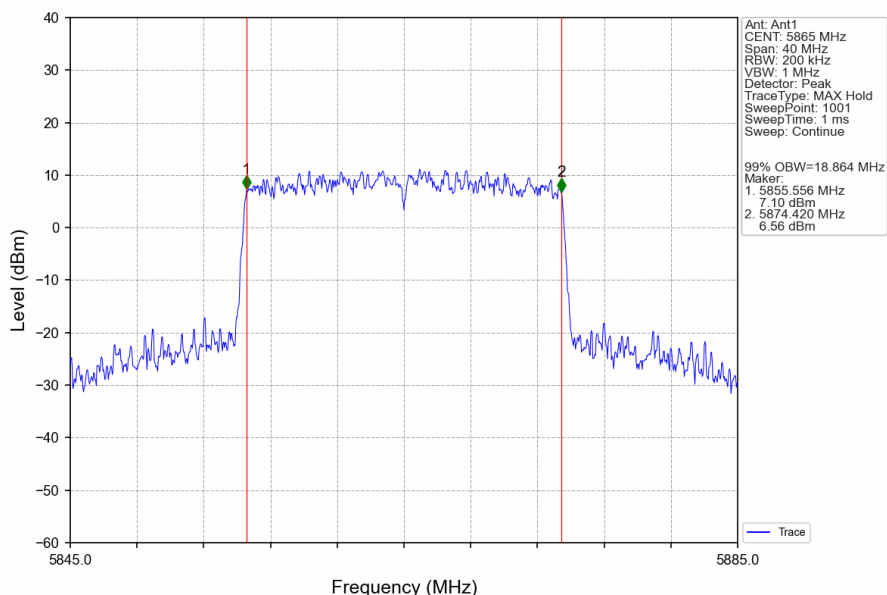
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802.11ac(VHT160)_HCH_5815MHz_Ant1_NTNV



802.11ax(HEW20)_LCH_5865MHz_SU_/_Ant1_NTNV



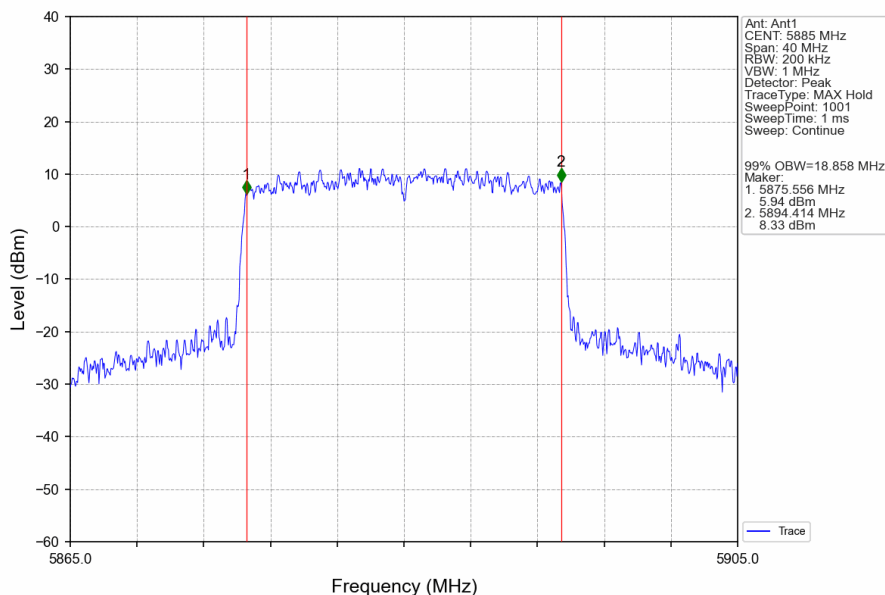
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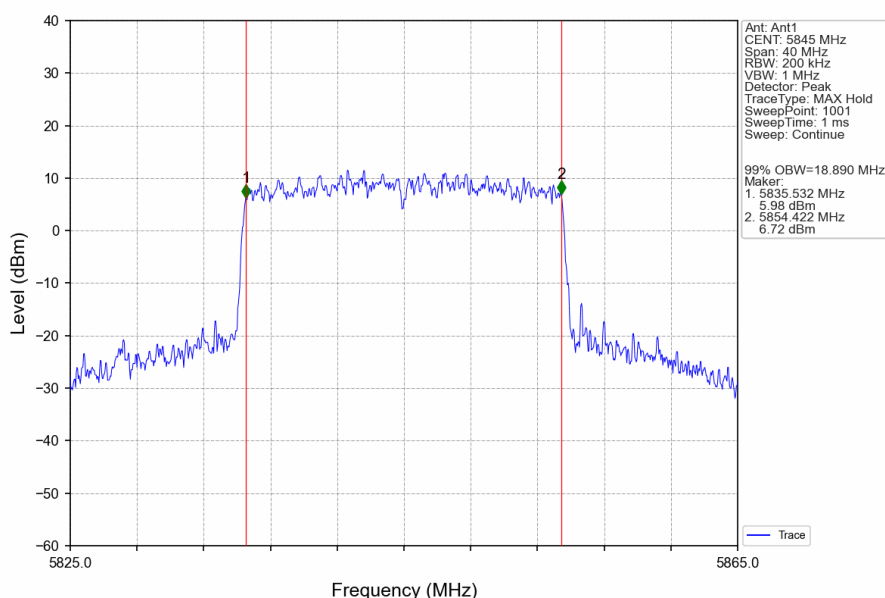
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802.11ax(HEW20)_HCH_5885MHz_SU_/_Ant1_NTNV



802.11ax(HEW20)_HCH_5845MHz_SU_/_Ant1_NTNV



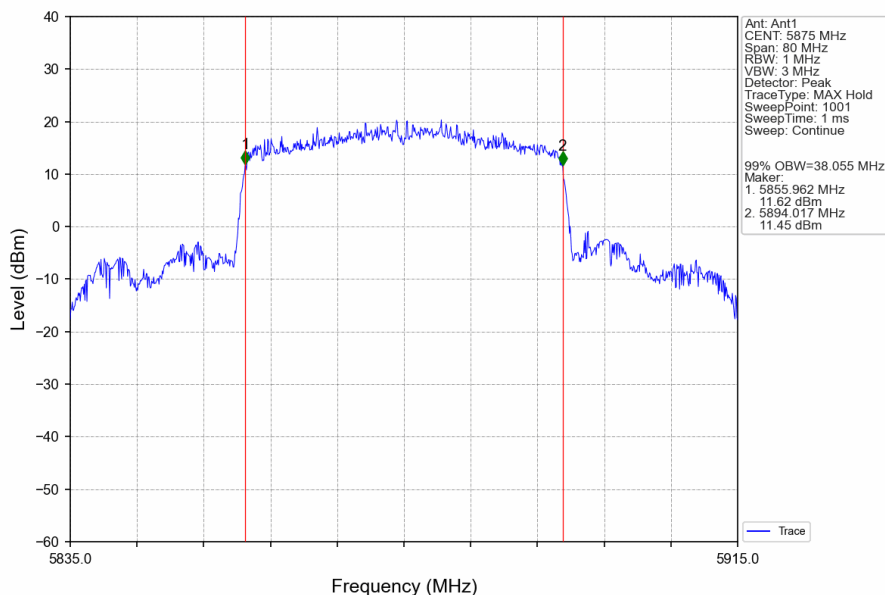
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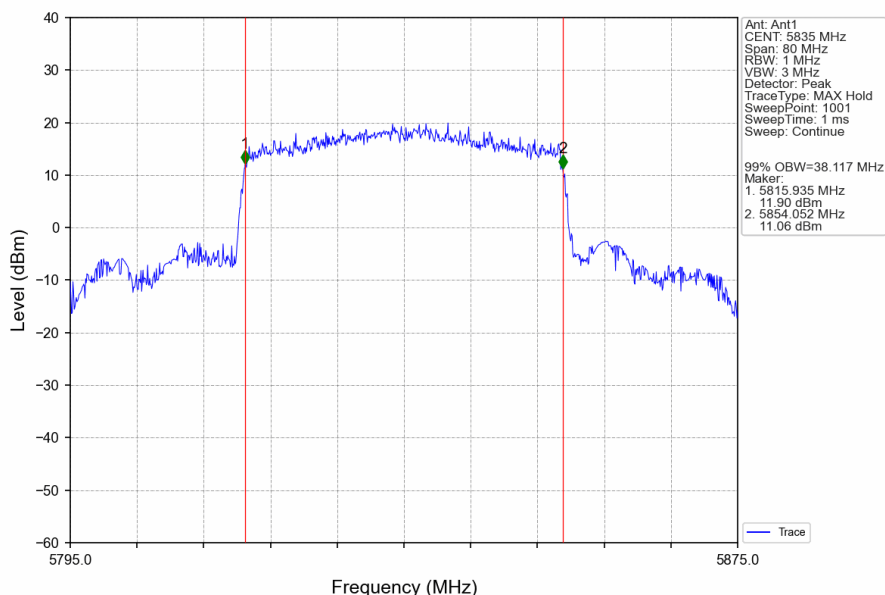
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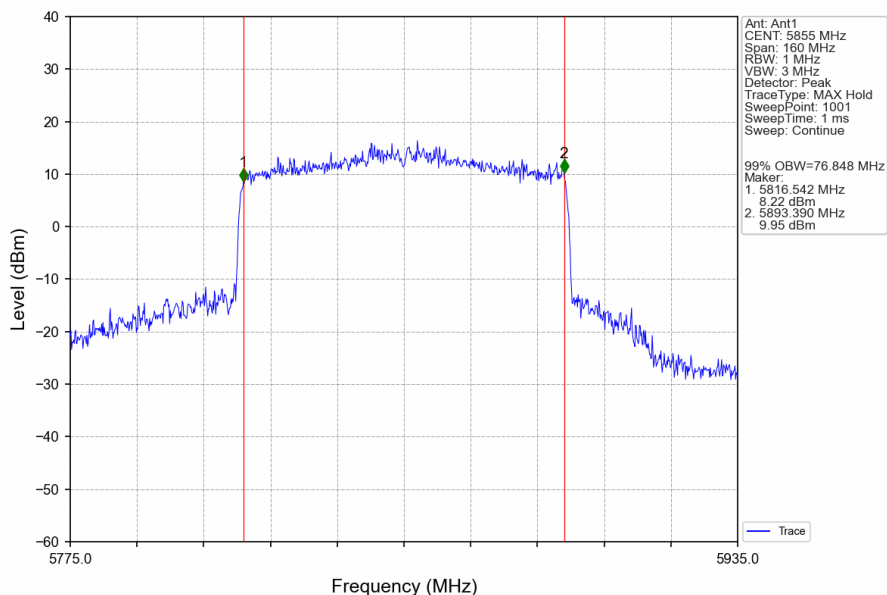
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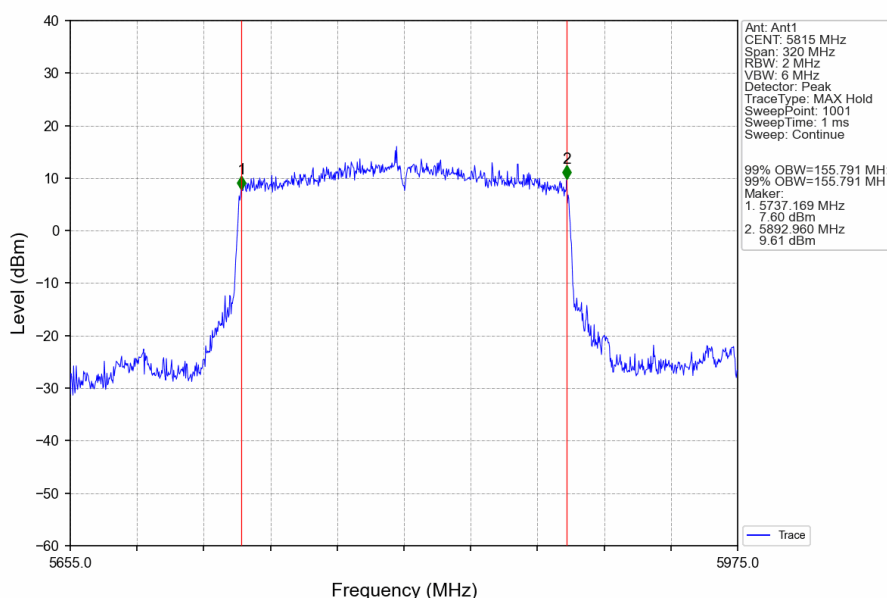
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802.11ax(HEW80)_HCH_5855MHz_SU_/_Ant1_NTNV



802.11ax(HEW160)_HCH_5815MHz_SU_/_Ant1_NTNV



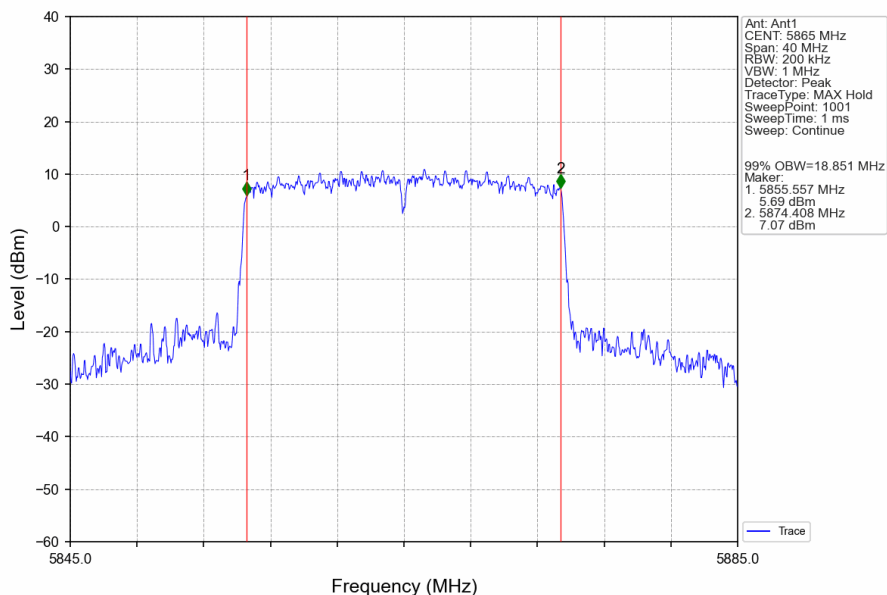
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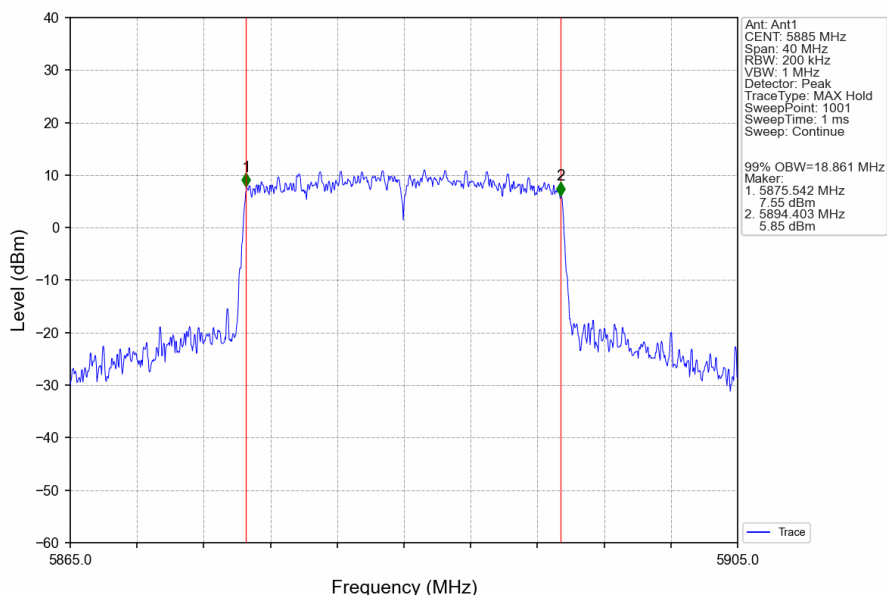
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802.11be(EHT20)_LCH_5865MHz_SU_/_Ant1_NTNV



802.11be(EHT20)_HCH_5885MHz_SU_/_Ant1_NTNV



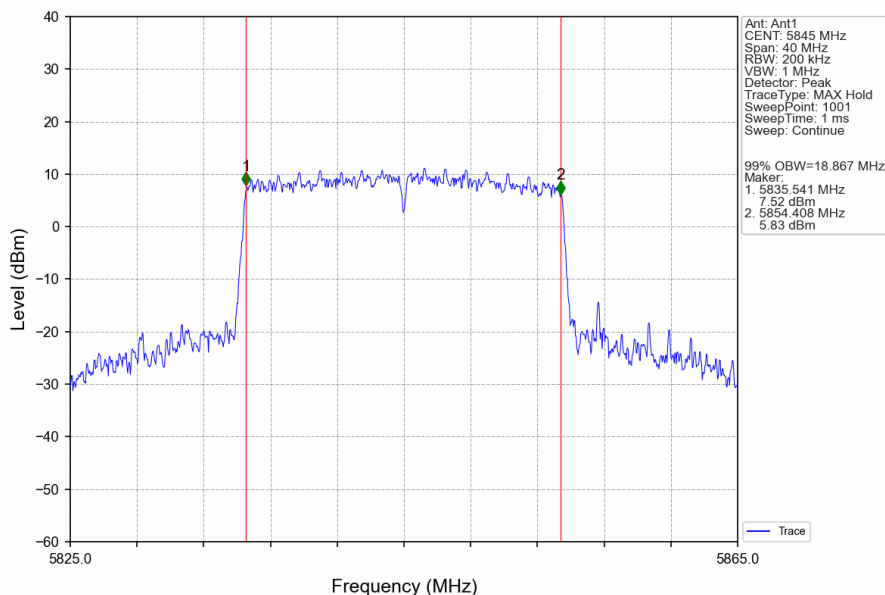
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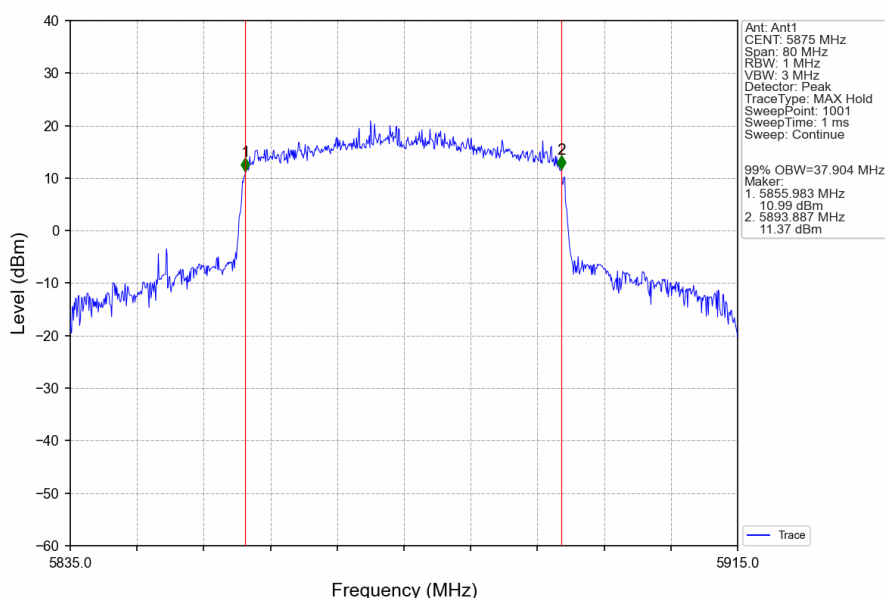
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802.11be(EHT40)_MCH_5875MHz_SU_/_Ant1_NTNV



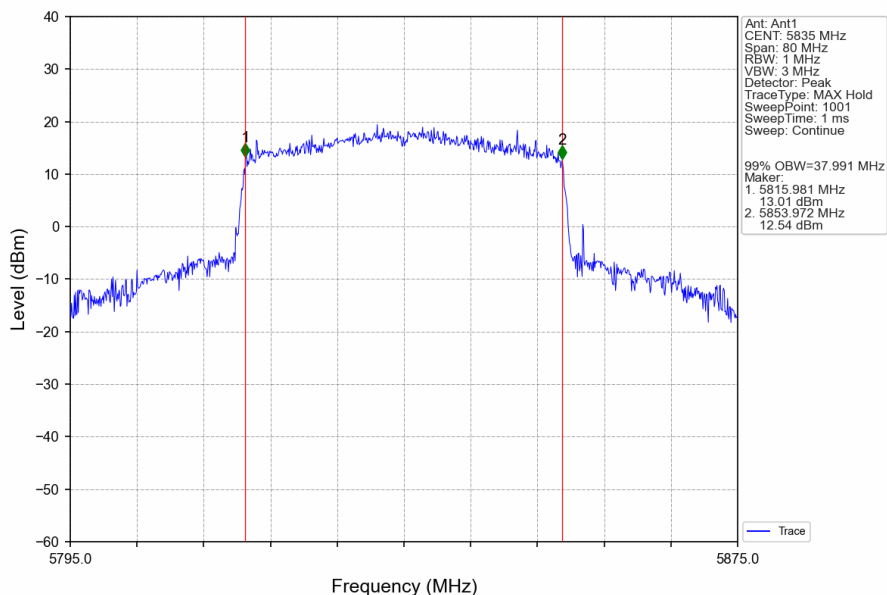
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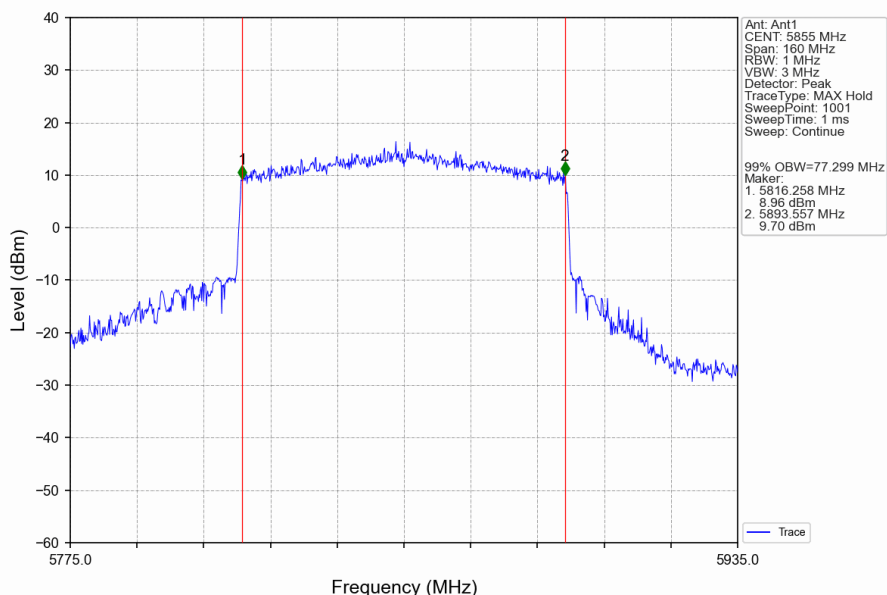
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802.11be(EHT40)_HCH_5835MHz_SU_/_Ant1_NTNV



802.11be(EHT80)_HCH_5855MHz_SU_/_Ant1_NTNV



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