



RF Test Report

For

Applicant Name: Xwireless LLC
Address: 11565 Old Georgetown Road, Rockville, MD, USA
EUT Name: Tablet PC
Brand Name: N/A
Model Number: T10M

Issued By

Company Name: BTF Testing Lab (Shenzhen) Co., Ltd.
Address: F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park,
Tantou Community, Songgang Street, Bao'an District, Shenzhen,
China

Report Number: BTF-SZ230303R-023
Test Standards: 47 CFR Part 15E
Test Conclusion: Pass
FCC ID: 2ADLJ-T10M
Test Date: 2023-03-18 to 2023-03-20
Date of Issue: 2023-03-20

Prepared By:

Chris Liu

Date:

Chris Liu / Project Engineer
2023-03-20

Approved By:

Ryan.CJ

Date:

Ryan.CJ / EMC Manager
2023-03-20

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Revision History		
Version	Issue Date	Revisions Content
R_V0	2023-03-20	Original
<i>Note: Once the revision has been made, then previous versions reports are invalid.</i>		

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1 Introduction

1.1 Identification of Testing Laboratory

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130

1.2 Identification of the Responsible Testing Location

Company Name:	BTF Testing Lab (Shenzhen) Co., Ltd.
Address:	F101, 201 and 301, Building 1, Block 2, Tantou Industrial Park, Tantou Community, Songgang Street, Bao'an District, Shenzhen, China
Phone Number:	+86-0755-23146130
Fax Number:	+86-0755-23146130
FCC Registration Number:	518915
Designation Number:	CN1330

1.3 Announcement

- (1) The test report reference to the report template version v0.
- (2) The test report is invalid if not marked with the signatures of the persons responsible for preparing, reviewing and approving the test report.
- (3) The test report is invalid if there is any evidence and/or falsification.
- (4) This document may not be altered or revised in any way unless done so by BTF and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.
- (6) The laboratory is only responsible for the data released by the laboratory, except for the part provided by the applicant.

2 Product Information

2.1 Application Information

Company Name:	Xwireless LLC
Address:	11565 Old Georgetown Road, Rockville, MD, USA

2.2 Manufacturer Information

Company Name:	Xwireless LLC
Address:	11565 Old Georgetown Road, Rockville, MD, USA

2.3 Factory Information

Company Name:	ZTECH COMMUNICATION(SZ) CO LTD
Address:	FL 7 BLOCK D BAO'AN ZHIGU INNOVATION PARK YIN'TIAN ROAD NO. 4 XI'XIANG STR' BAO'AN DISTRICT SZ CHINA

2.4 General Description of Equipment under Test (EUT)

EUT Name:	Tablet PC
Test Model Number:	T10M

2.5 Technical Information

Power Supply:	DC3.8V from battery
Power Adaptor:	Model:T10 Input:100-240V, 50/60Hz 0.3A Output:5.0V==2.0A 10.0W
Operation Frequency:	802.11a/n(HT20)/ac(HT20)/ax(HE20): U-NII Band 1: 5180MHz to 5240MHz; U-NII Band 2A: 5260MHz to 5320MHz; U-NII Band 2C: 5500MHz to 5700MHz; U-NII Band 3: 5745MHz to 5825MHz; 802.11n(HT40)/ac(HT40)/ax(HE40): U-NII Band 1: 5190MHz to 5230MHz; U-NII Band 2A: 5270MHz to 5310MHz; U-NII Band 2C: 5510MHz to 5670MHz; U-NII Band 3: 5755MHz to 5795MHz; 802.11ac(HT80)/ax(HE80): U-NII Band 1: 5210MHz; U-NII Band 2A: 5290MHz; U-NII Band 2C: 5530MHz to 5610MHz; U-NII Band 3: 5775MHz Note: In Canada, 5600MHz to 5650MHz is not available.
Number of Channels:	802.11a/n(HT20)/ac(HT20)/ax(HE20): U-NII Band 1: 4; U-NII Band 2A: 4; U-NII Band 2C: 11; U-NII Band 3: 5; 802.11n(HT40)/ac(HT40)/ax(HE40): U-NII Band 1: 2; U-NII Band 2A: 2; U-NII Band 2C: 5; U-NII Band 3: 2;

	802.11ac(HT80)/ax(HE80): U-NII Band 1: 1; U-NII Band 2A: 1; U-NII Band 2C: 2; U-NII Band 3: 1
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: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
Antenna Type:	PIFA ANT
Antenna Gain:	1.09dBi

3 Summary of Test Results

3.1 Test Standards

The tests were performed according to following standards:

47 CFR Part 15E: Unlicensed National Information Infrastructure Devices

3.2 Uncertainty of Test

Measurement	Value
Occupied Channel Bandwidth	69 KHz
RF output power, conducted	0.87 dB
Power Spectral Density, conducted	0.69 dB
Unwanted Emissions, conducted	0.94 dB
All emissions, radiated(<1GHz)	4.12 dB
All emissions, radiated(>1GHz)	4.16 dB
Temperature	0.82 °C
Humidity	4.1 %

3.3 Summary of Test Result

Item	Standard	Requirement	Result
Conducted Emission at AC power line	47 CFR Part 15E	47 CFR Part 15.207(a)	Pass
Duty Cycle	47 CFR Part 15E		Pass
Maximum conducted output power	47 CFR Part 15E	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2)	Pass
Power spectral density	47 CFR Part 15E	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2)	Pass
Emission bandwidth and occupied bandwidth	47 CFR Part 15E	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.	Pass
Band edge emissions (Radiated)	47 CFR Part 15E	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(3) 47 CFR Part 15.407(b)(10)	Pass
Undesirable emission limits (below 1GHz)	47 CFR Part 15E	47 CFR Part 15.407(b)(9)	Pass
Undesirable emission limits (above 1GHz)	47 CFR Part 15E	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(3) 47 CFR Part 15.407(b)(10)	Pass

4 Test Configuration

4.1 Test Equipment List

Conducted Emission at AC power line					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Pulse Limiter	SCHWARZBECK	VTSD 9561-F	00953	2022-11-24	2023-11-23
Coaxial Switcher	SCHWARZBECK	CX210	CX210	2022-11-24	2023-11-23
V-LISN	SCHWARZBECK	NSLK 8127	01073	2022-11-24	2023-11-23
LISN	AFJ	LS16/110VAC	16010020076	2023-02-23	2024-02-22
EMI Receiver	ROHDE&SCHWARZ	ESCI3	101422	2022-11-24	2023-11-23

Duty Cycle					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Maximum conducted output power					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Power spectral density					
Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/

RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Emission bandwidth and occupied bandwidth

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
RFTest software	/	V1.00	/	/	/
RF Control Unit	Techy	TR1029-1	/	2022-11-24	2023-11-23
RF Sensor Unit	Techy	TR1029-2	/	2022-11-24	2023-11-23
Programmable constant temperature and humidity box	ZZCKONG	ZZ-K02A	20210928007	2022-11-24	2023-11-23
Adjustable Direct Current Regulated Power Supply	Dongguan Tongmen Electronic Technology Co., LTD	etm-6050c	20211026123	2022-11-24	2023-11-23
WIDEBAND RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMW500	161997	2022-11-24	2023-11-23
MXA Signal Analyzer	KEYSIGHT	N9020A	MY50410020	2022-11-24	2023-11-23

Band edge emissions (Radiated)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2022-03-26	2023-03-25
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMAM-10m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMAM-1m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2022-11-24	2023-11-23

POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplifier	SCHWARZBECK	BBV9718D	00008	2022-03-26	2023-03-25
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Undesirable emission limits (below 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2022-03-26	2023-03-25
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplifier	SCHWARZBECK	BBV9718D	00008	2022-03-26	2023-03-25
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

Undesirable emission limits (above 1GHz)

Equipment	Manufacturer	Model No	Inventory No	Cal Date	Cal Due Date
Coaxial cable Multiflex 141	Schwarzbeck	N/SMA 0.5m	517386	2022-03-26	2023-03-25
Preamplifier	SCHWARZBECK	BBV9744	00246	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-10m	21101566	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-10m	21101570	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF1-SMASMAM-1m	21101568	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-1m	21101576	2022-11-24	2023-11-23
RE Cable	REBES Talent	UF2-NMNM-2.5m	21101573	2022-11-24	2023-11-23

POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Horn Antenna	SCHWARZBECK	BBHA9170	01157	2021-11-28	2023-11-27
EMI TEST RECEIVER	ROHDE&SCHWARZ	ESCI7	101032	2022-11-24	2023-11-23
SIGNAL ANALYZER	ROHDE&SCHWARZ	FSQ40	100010	2022-11-24	2023-11-23
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Broadband Preamplifier	SCHWARZBECK	BBV9718D	00008	2022-03-26	2023-03-25
Horn Antenna	SCHWARZBECK	BBHA9120D	2597	2022-05-22	2024-05-21
EZ EMC	Frad	FA-03A2 RE+	/	/	/
POSITIONAL CONTROLLER	SKET	PCI-GPIB	/	/	/
Log periodic antenna	SCHWARZBECK	VULB 9168	01328	2021-11-28	2023-11-27

4.2 Test Auxiliary Equipment

The EUT was tested as an independent device.

4.3 Test Modes

No.	Test Modes	Description
TM1	802.11a mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11a modulation type. All data rates has been tested and found the data rate @ 6Mbps is the worst case. Only the data of worst case is recorded in the report.
TM2	802.11n mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11n modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
TM3	802.11ac mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ac modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
TM4	802.11ax mode	Keep the EUT connect to AC power line and works in continuously transmitting mode with 802.11ax modulation type. All bandwidth and data rates has been tested and found the data rate @ MCS0 is the worst case. Only the data of worst case is recorded in the report.
TM5	Normal Operating	Keep the EUT works in normal operating mode and connect to companion device

5 Radio Spectrum Matter Test Results (RF)

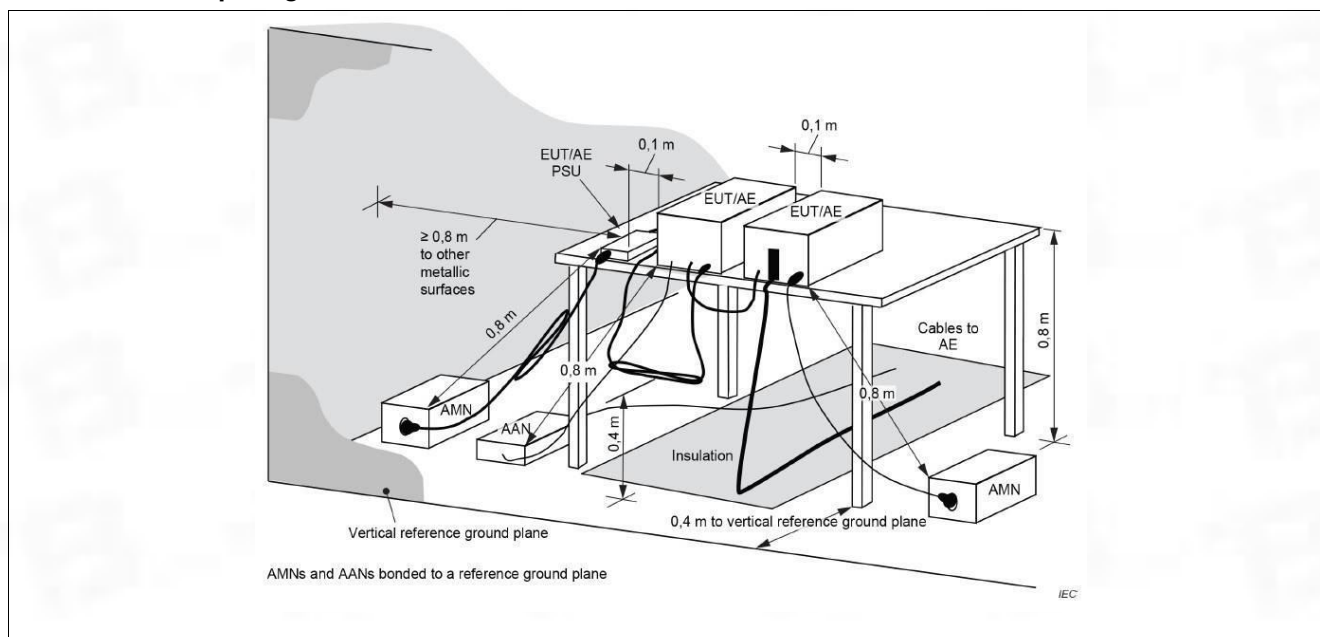
5.1 Conducted Emission at AC power line

Test Requirement:	47 CFR Part 15.207(a)		
Test Method:	Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dBµV)	
		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.		

5.1.1 E.U.T. Operation:

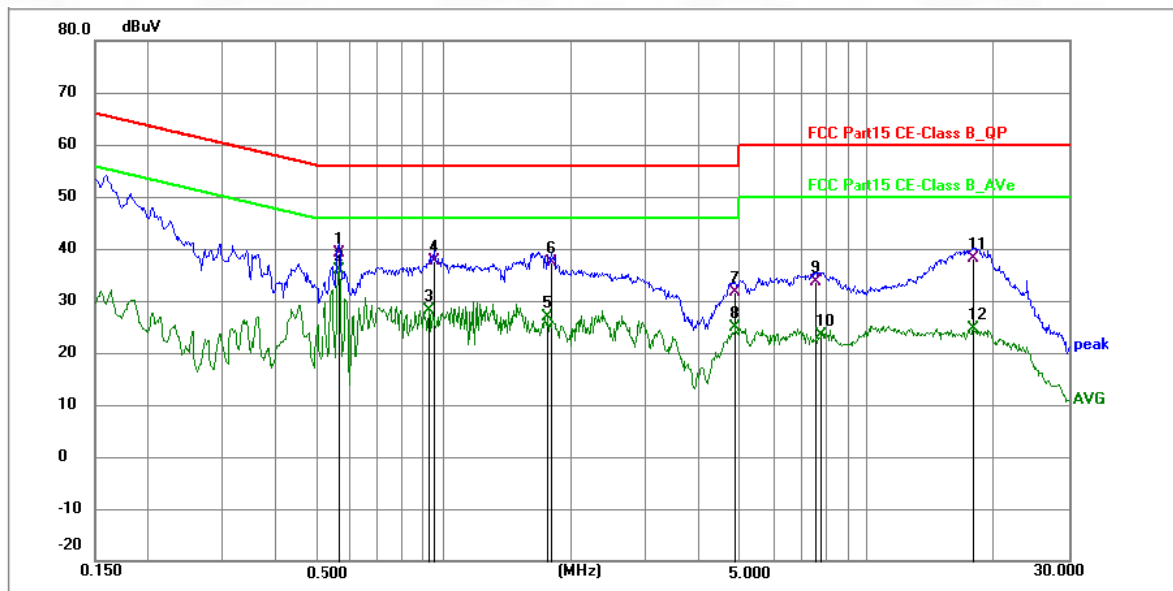
Operating Environment:	
Temperature:	22.2 °C
Humidity:	45.8 %
Atmospheric Pressure:	1010 mbar

5.1.2 Test Setup Diagram:



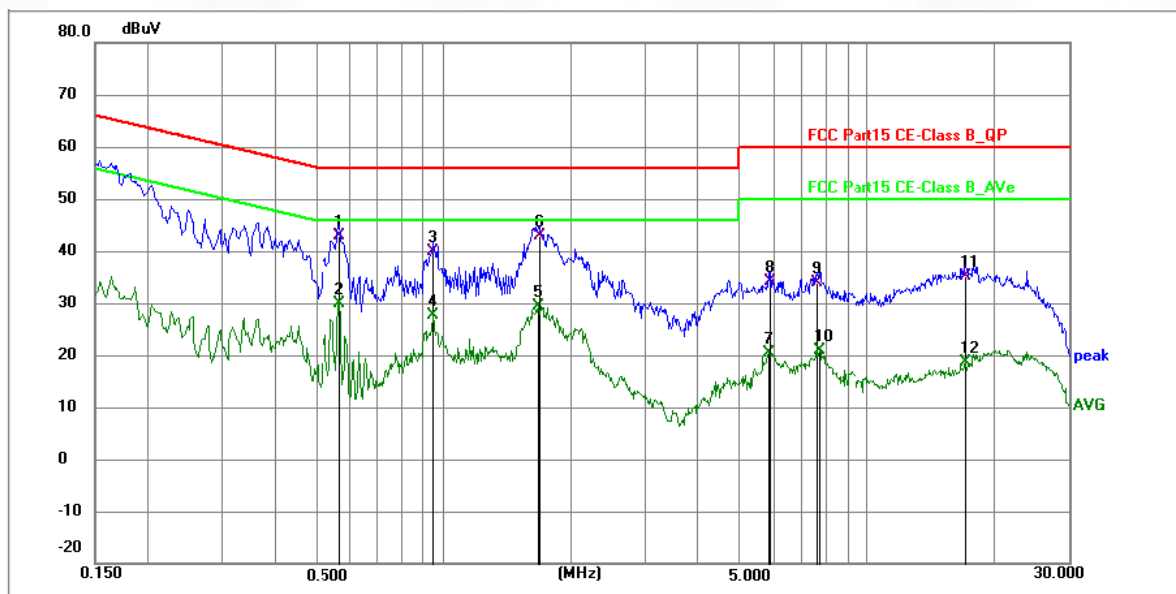
5.1.3 Test Data:

TM3 / Line: Line / Band: U-NII 1 / BW: 80 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.5685	28.37	10.65	39.02	56.00	-16.98	QP	P	
2 *	0.5685	25.34	10.65	35.99	46.00	-10.01	AVG	P	
3	0.9240	17.31	10.77	28.08	46.00	-17.92	AVG	P	
4	0.9510	26.79	10.77	37.56	56.00	-18.44	QP	P	
5	1.7655	16.07	10.71	26.78	46.00	-19.22	AVG	P	
6	1.7923	26.71	10.71	37.42	56.00	-18.58	QP	P	
7	4.8930	22.13	9.62	31.75	56.00	-24.25	QP	P	
8	4.8930	15.27	9.62	24.89	46.00	-21.11	AVG	P	
9	7.5345	22.79	10.78	33.57	60.00	-26.43	QP	P	
10	7.7730	12.63	10.80	23.43	50.00	-26.57	AVG	P	
11	17.8660	27.25	10.98	38.23	60.00	-21.77	QP	P	
12	17.8660	13.69	10.98	24.67	50.00	-25.33	AVG	P	

TM3 / Line: Neutral / Band: U-NII 1 / BW: 80 / CH: M



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.5685	32.17	10.65	42.82	56.00	-13.18	QP	P	
2	0.5685	19.14	10.65	29.79	46.00	-16.21	AVG	P	
3	0.9465	29.12	10.77	39.89	56.00	-16.11	QP	P	
4	0.9465	16.79	10.77	27.56	46.00	-18.44	AVG	P	
5	1.6800	18.67	10.72	29.39	46.00	-16.61	AVG	P	
6 *	1.6845	32.12	10.72	42.84	56.00	-13.16	QP	P	
7	5.8470	9.79	10.71	20.50	50.00	-29.50	AVG	P	
8	5.8695	23.44	10.71	34.15	60.00	-25.85	QP	P	
9	7.5705	23.13	10.78	33.91	60.00	-26.09	QP	P	
10	7.7010	10.19	10.79	20.98	50.00	-29.02	AVG	P	
11	17.1600	24.17	10.90	35.07	60.00	-24.93	QP	P	
12	17.1600	7.73	10.90	18.63	50.00	-31.37	AVG	P	

5.2 Duty Cycle

Test Requirement:	All measurements are to be performed with the EUT transmitting at 100% duty cycle at its maximum power control level; however, if 100% duty cycle cannot be achieved, measurements of duty cycle, x , and maximum-power transmission duration, T , are required for each tested mode of operation.
Test Method:	ANSI C63.10-2013 section 12.2 (b)
Test Limit:	No limits, only for report use.
Procedure:	i) Set the center frequency of the instrument to the center frequency of the transmission. ii) Set RBW $\geq$ EBW if possible; otherwise, set RBW to the largest available value. iii) Set VBW $\geq$ RBW. iv) Set detector = peak. v) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$, where T is defined in item a1) of 12.2, and the number of sweep points across duration T exceeds 100.

5.2.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.1 °C
Humidity:	54.4 %
Atmospheric Pressure:	1010 mbar

5.2.2 Test Data:

Please Refer to Appendix for Details.

5.3 Maximum conducted output power

Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2)
Test Method:	ANSI C63.10-2013, section 12.3
Test Limit:	For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Procedure:	Method SA-1 a) Set span to encompass the entire 26 dB EBW or 99% OBW of the signal. b) Set RBW = 1 MHz. c) Set VBW $\geq$ 3 MHz. d) Number of points in sweep $\geq$ $[2 \times \text{span} / \text{RBW}]$. (This gives bin-to-bin spacing $\leq$ RBW / 2, so that narrowband signals are not lost between frequency bins.) e) Sweep time = auto. f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode. g) If transmit duty cycle < 98%, use a video trigger with the trigger level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no OFF intervals) or at duty cycle $\geq$ 98%, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run." h) Trace average at least 100 traces in power averaging (rms) mode. i) Compute power by integrating the spectrum across the 26 dB EBW or 99% OBW of the signal using the instrument's band power measurement function, with band limits set equal to the EBW or OBW band edges. If the instrument does not have a band power function, then sum the spectrum levels (in power units) at 1 MHz intervals extending across the 26 dB EBW or 99% OBW of the spectrum.

5.3.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.1 °C
Humidity:	54.4 %
Atmospheric Pressure:	1010 mbar

5.3.2 Test Data:

Please Refer to Appendix for Details.

5.4 Power spectral density

Test Requirement:	47 CFR Part 15.407(a)(1)(iv) 47 CFR Part 15.407(a)(2)
Test Method:	ANSI C63.10-2013, section 12.5
Test Limit:	For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
Procedure:	a) Create an average power spectrum for the EUT operating mode being tested by following the instructions in 12.3.2 for measuring maximum conducted output power using a spectrum analyzer or EMI receiver; that is, select the appropriate test method (SA-1, SA-2, SA-3, or their respective alternatives) and apply it up to, but not including, the step labeled, "Compute power...." (This procedure is required even if the maximum conducted output power measurement was performed using the power meter method PM.) b) Use the peak search function on the instrument to find the peak of the spectrum. c) Make the following adjustments to the peak value of the spectrum, if applicable: 1) If method SA-2 or SA-2A was used, then add $[10 \log (1 / D)]$, where D is the duty cycle, to the peak of the spectrum. 2) If method SA-3A was used and the linear mode was used in step h) of 12.3.2.7, add 1 dB to the final result to compensate for the difference between linear averaging and power averaging. d) The result is the PPSD. e) The procedure in item a) through item c) requires the use of 1 MHz resolution bandwidth to satisfy the 1 MHz measurement bandwidth specified by some regulatory authorities. This requirement also permits use of resolution bandwidths less than 1 MHz "provided that the measured power is integrated to show the total power over the measurement bandwidth" (i.e., 1 MHz). If measurements are performed using a reduced resolution bandwidth and integrated over 1 MHz bandwidth, the following adjustments to the procedures apply: 1) Set $RBW \geq 1 / T$, where T is defined in 12.2 a). 2) Set $VBW \geq [3 \times RBW]$. 3) Care shall be taken such that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

5.4.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.1 °C
Humidity:	54.4 %
Atmospheric Pressure:	1010 mbar

5.4.2 Test Data:

Please Refer to Appendix for Details.

5.5 Emission bandwidth and occupied bandwidth

Test Requirement:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Test Method:	ANSI C63.10-2013, section 6.9.3 & 12.4
Test Limit:	U-NII 1, U-NII 2A, U-NII 2C: No limits, only for report use.
Procedure:	Emission bandwidth: - Set RBW = approximately 1% of the emission bandwidth. - Set the VBW > RBW. - Detector = peak. - Trace mode = max hold. - Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%. Occupied bandwidth: - The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW. - The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement. - Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2. - Step a) through step c) might require iteration to adjust within the specified range. - Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used. - Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth. - If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies. - The occupied bandwidth shall be reported by providing plot(s) of the measuring

	instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
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5.5.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.1 °C
Humidity:	54.4 %
Atmospheric Pressure:	1010 mbar

5.5.2 Test Data:

Please Refer to Appendix for Details.

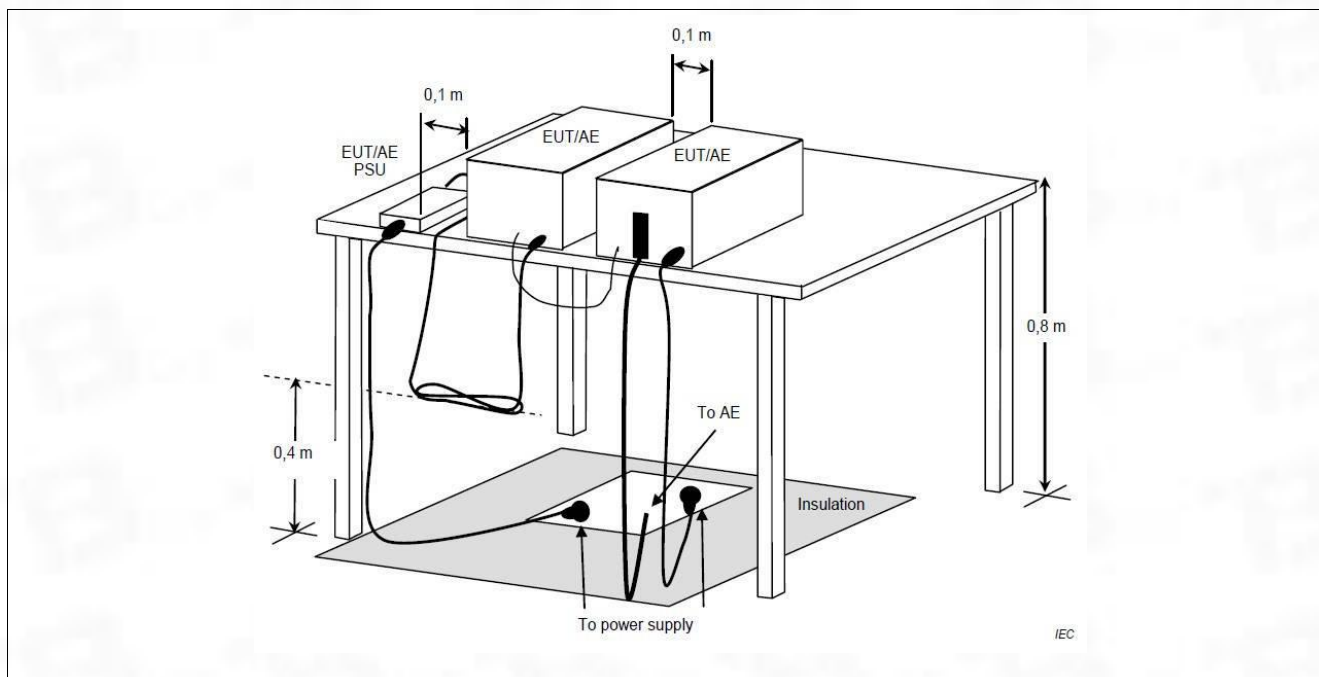
5.6 Band edge emissions (Radiated)

Test Requirement:	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(3) 47 CFR Part 15.407(b)(10)		
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6		
Test Limit:	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. 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. 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.		
	MHz	MHz	MHz
	0.090-0.110	16.42-16.423	399.9-410
	¹ 0.495-0.505	16.69475-16.69525	608-614
	2.1735-2.1905	16.80425-16.80475	960-1240
	4.125-4.128	25.5-25.67	1300-1427
	4.17725-4.17775	37.5-38.25	1435-1626.5
	4.20725-4.20775	73-74.6	1645.5-1646.5
	6.215-6.218	74.8-75.2	1660-1710
	6.26775-6.26825	108-121.94	1718.8-1722.2
	6.31175-6.31225	123-138	2200-2300
	8.291-8.294	149.9-150.05	2310-2390
	8.362-8.366	156.52475-156.52525	2483.5-2500
	8.37625-8.38675	156.7-156.9	2690-2900
	8.41425-8.41475	162.0125-167.17	3260-3267
	12.29-12.293	167.72-173.2	3332-3339
	12.51975-12.52025	240-285	3345.8-3358
	12.57675-12.57725	322-335.4	3600-4400
	13.36-13.41		(²)
	¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ² Above 38.6 The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements. Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:		
	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
Procedure:	Above 1GHz: 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 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above 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 harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.		

5.6.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.4 °C
Humidity:	53.7 %
Atmospheric Pressure:	1010 mbar

5.6.2 Test Setup Diagram:

5.6.3 Test Data:

802.11a(20MHz)

Band1&2A-Lowest-H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5102.320	84.32	-32.41	51.91	68.20	-16.29	peak	P
2	5150.000	82.10	-32.37	49.73	68.20	-18.47	peak	P

Band1&2A-Lowest-V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5130.320	83.12	-32.41	50.71	68.20	-17.49	peak	P
2	5150.000	82.45	-32.37	50.08	68.20	-18.12	peak	P

Band1&2A-Highest-H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.000	80.54	-32.41	48.13	68.20	-20.07	peak	P
2	5399.120	82.32	-32.37	49.95	68.20	-18.25	peak	P

Band1&2A-Highest-V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.000	81.23	-32.41	48.82	68.20	-19.38	peak	P
2	5360.230	79.60	-32.37	47.23	68.20	-20.97	peak	P

Band2C-Lowest-H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5415.620	84.03	-32.41	51.62	68.20	-16.58	peak	P
2	5470.000	82.14	-32.37	49.77	68.20	-18.43	peak	P

Band2C-Lowest-V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5420.620	82.66	-32.41	50.25	68.20	-17.95	peak	P
2	5470.000	80.12	-32.37	47.75	68.20	-20.45	peak	P

Band2C-Highest-H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5725.000	85.12	-32.41	52.71	68.20	-15.49	peak	P
2	5729.000	82.13	-32.37	49.76	68.20	-18.44	peak	P

Band2C-Highest-V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
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1	5725.000	84.33	-32.41	51.92	68.20	-16.28	peak	P
2	5735.100	81.26	-32.37	48.89	68.20	-19.31	peak	P

Band3-Lowest-H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5650.000	82.32	-32.12	50.20	68.20	-18.00	peak	P
2	5700.000	82.10	-32.23	49.87	105.60	-55.73	peak	P
3	5720.000	80.12	-32.29	47.83	110.8	-62.97	peak	P

Band3-Lowest-V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5650.000	81.23	-32.12	49.11	68.20	-19.09	peak	P
2	5700.000	80.23	-32.23	48.00	105.60	-57.60	peak	P
3	5720.000	81.23	-32.29	48.94	110.8	-61.86	peak	P

Band3--Highest-H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5850.000	80.23	-32.12	48.11	122.20	-74.09	peak	P
2	5875.000	79.23	-32.23	47.00	110.80	-63.80	peak	P
3	5925.000	80.23	-32.23	48.00	68.20	-20.20	peak	P

Band3--Highest-V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5850.000	78.23	-32.12	46.11	122.20	-76.09	peak	P
2	5875.000	79.36	-32.23	47.13	110.80	-63.67	peak	P
3	5925.000	80.21	-32.23	47.98	68.20	-20.22	peak	P

802.11n(40MHz)

Band1/2A-Lowest-H

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5140.320	79.63	-32.41	47.22	68.20	-20.98	peak	P
2	5150.000	78.36	-32.37	45.99	68.20	-22.21	peak	P

Band1/2A-Lowest-V

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5135.320	78.96	-32.41	46.55	68.20	-21.65	peak	P
2	5150.000	79.63	-32.37	47.26	68.20	-20.94	peak	P

Band1/2A-Highest-H

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5350.000	80.23	-32.41	47.82	68.20	-20.38	peak	P
2	5359.320	81.26	-32.37	48.89	68.20	-19.31	peak	P

Band1/2A-Highest-V

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5350.000	79.68	-32.41	47.27	68.20	-20.93	peak	P
2	5360.280	78.56	-32.37	46.19	68.20	-22.01	peak	P

Band2C-Lowest-H

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5456.320	82.36	-32.41	49.95	68.20	-18.25	peak	P
2	5470.000	83.69	-32.37	51.32	68.20	-16.88	peak	P

Band2C-Lowest-V

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5452.36.32	80.23	-32.41	47.82	68.20	-20.38	peak	P
2	5470.000	82.12	-32.37	49.75	68.20	-18.45	peak	P

Band2C-Highest-H

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5725.000	82.32	-32.41	49.91	68.20	-18.29	peak	P
2	5732.100	80.32	-32.37	47.95	68.20	-20.25	peak	P

Band2C-Highest-V

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5725.000	83.65	-32.41	51.24	68.20	-16.96	peak	P
2	5729.360	81.23	-32.37	48.86	68.20	-19.34	peak	P

Band3-Lowest-H

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5650.000	80.23	-32.12	48.11	68.20	-20.09	peak	P
2	5700.000	86.30	-32.23	54.07	105.60	-51.53	peak	P
3	5720.000	88.90	-32.29	56.61	110.8	-54.19	peak	P

Band3-Lowest-V

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5650.000	82.36	-32.12	50.24	68.20	-17.96	peak	P
2	5700.000	89.30	-32.23	57.07	105.60	-48.53	peak	P
3	5720.000	90.20	-32.29	57.91	110.8	-52.89	peak	P

Band3--Highest-H

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5850.000	85.30	-32.12	53.18	122.20	-69.02	peak	P
2	5875.000	82.30	-32.23	50.07	110.80	-60.73	peak	P
3	5925.000	80.32	-32.23	48.09	68.20	-20.11	peak	P

Band3--Highest-V

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5850.000	87.60	-32.12	55.48	122.20	-66.72	peak	P
2	5875.000	83.65	-32.23	51.42	110.80	-59.38	peak	P
3	5925.000	81.23	-32.23	49.00	68.20	-19.20	peak	P

802.11ac(80MHz)

Band1/2A-Lowest-H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5139.600	77.98	-32.41	45.57	68.20	-22.63	peak	P
2	5150.000	81.23	-32.37	48.86	68.20	-19.34	peak	P

Band1/2A-Lowest-V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5146.300	79.63	-32.41	47.22	68.20	-20.98	peak	P
2	5150.000	80.23	-32.37	47.86	68.20	-20.34	peak	P

Band1/2A-Highest-H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.000	81.23	-32.41	48.82	68.20	-19.38	peak	P
2	5355.010	79.32	-32.37	46.95	68.20	-21.25	peak	P

Band1/2A-Highest-V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5350.000	82.32	-32.41	49.91	68.20	-18.29	peak	P
2	5356.320	79.69	-32.37	47.32	68.20	-20.88	peak	P

Band2C-Lowest-H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5465.320	82.36	-32.41	49.95	68.20	-18.25	peak	P
2	5470.000	84.32	-32.37	51.95	68.20	-16.25	peak	P

Band2C-Lowest-V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5462.360	80.32	-32.41	47.91	68.20	-20.29	peak	P
2	5470.000	83.69	-32.37	51.32	68.20	-16.88	peak	P

Band2C-Highest-H

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5725.000	84.65	-32.41	52.24	68.20	-15.96	peak	P
2	5732.360	80.36	-32.37	47.99	68.20	-20.21	peak	P

Band2C-Highest-V

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	5725.000	86.32	-32.41	53.91	68.20	-14.29	peak	P
2	5736.650	82.36	-32.37	49.99	68.20	-18.21	peak	P

Band3-H

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5650.000	83.65	-32.12	51.53	68.20	-16.67	peak	P
2	5700.000	93.32	-32.23	61.09	105.60	-44.51	peak	P
3	5720.000	96.32	-32.29	64.03	110.8	-46.77	peak	P
4	5850.000	89.36	-32.12	57.24	122.20	-64.96	peak	P
5	5875.000	86.30	-32.23	54.07	110.80	-56.73	peak	P
6	5925.000	80.32	-32.23	48.09	68.20	-20.11	peak	P

Band3-V

No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5650.000	82.30	-32.68	49.62	68.20	-18.58	peak	P
2	5700.000	89.36	-32.23	57.13	105.60	-48.47	peak	P
3	5720.000	92.36	-32.36	60.00	110.80	-50.80	peak	P
4	5850.000	93.62	-32.12	61.50	122.20	-60.70	peak	P
5	5875.000	87.60	-32.39	55.21	110.80	-55.59	peak	P
6	5925.000	81.32	-32.56	48.76	68.20	-19.44	peak	P

5.7 Undesirable emission limits (below 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(9)	
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6	
Test Limit:	Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209.	
	Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:	
	Frequency (MHz)	Field strength (microvolts/meter)
	0.009-0.490	2400/F(kHz)
	0.490-1.705	24000/F(kHz)
	1.705-30.0	30
	30-88	100 **
	88-216	150 **
	216-960	200 **
	Above 960	500
Procedure:	Below 1GHz:	
	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.	
	b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.	
	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 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. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor	
	2. Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above 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. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.	
	Above 1GHz:	

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.

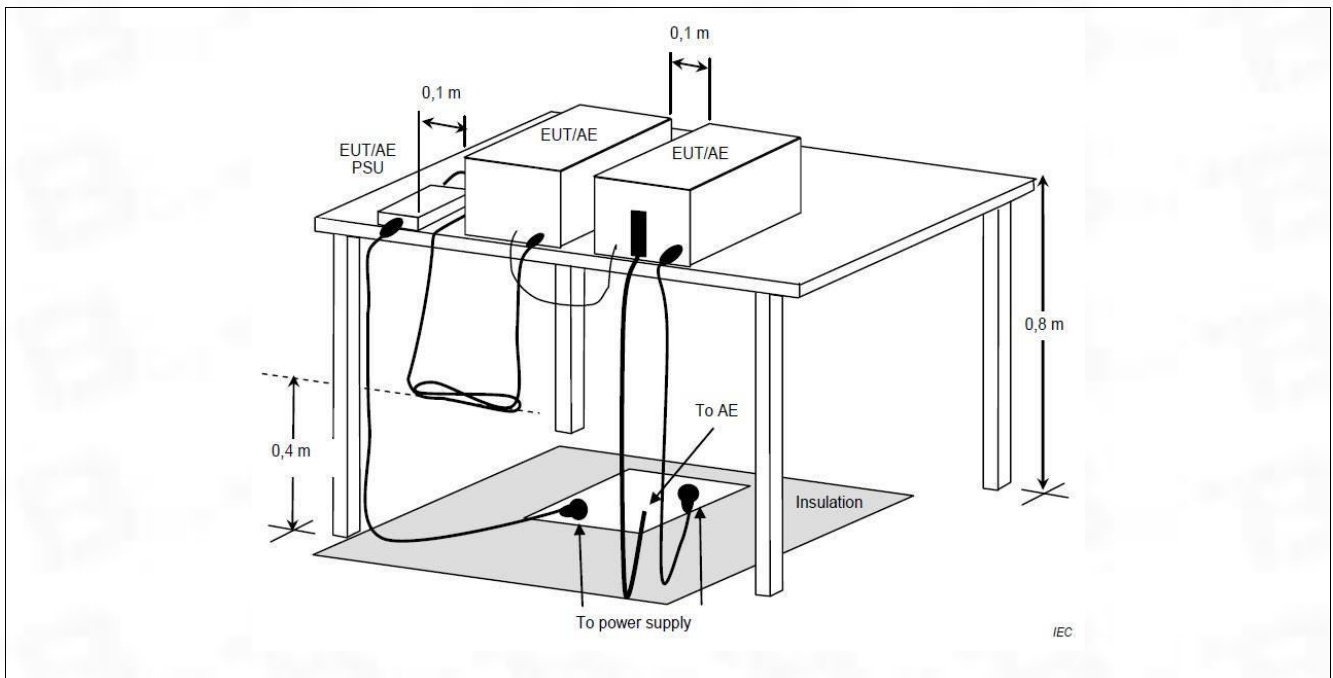
i. Repeat above procedures until all frequencies measured was complete.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above 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 harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.

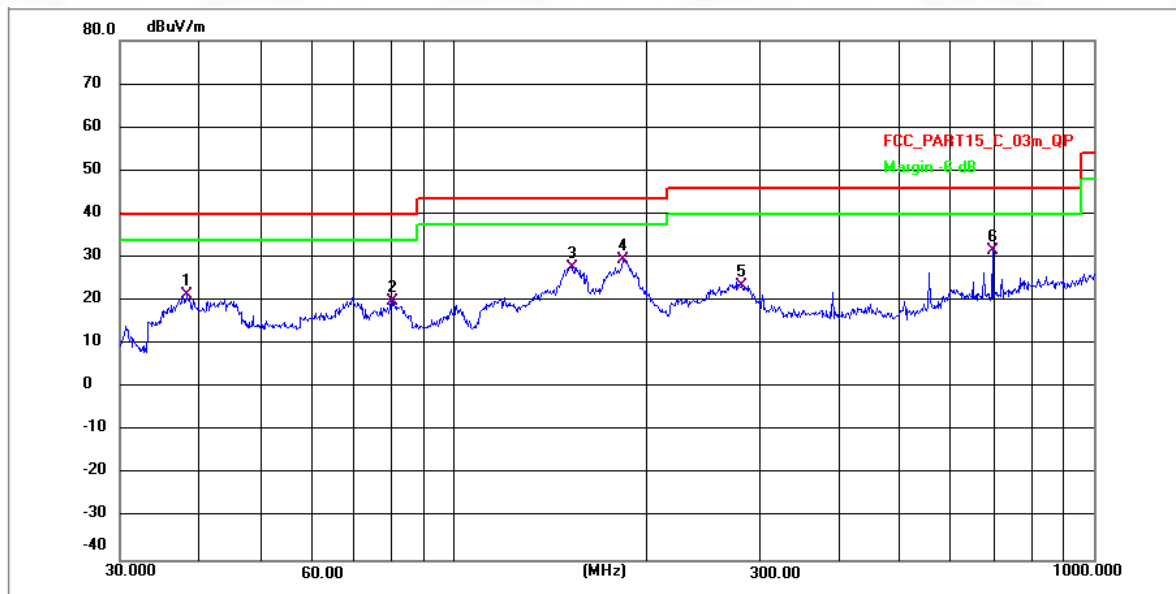
5.7.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.4 °C
Humidity:	53.7 %
Atmospheric Pressure:	1010 mbar

5.7.2 Test Setup Diagram:

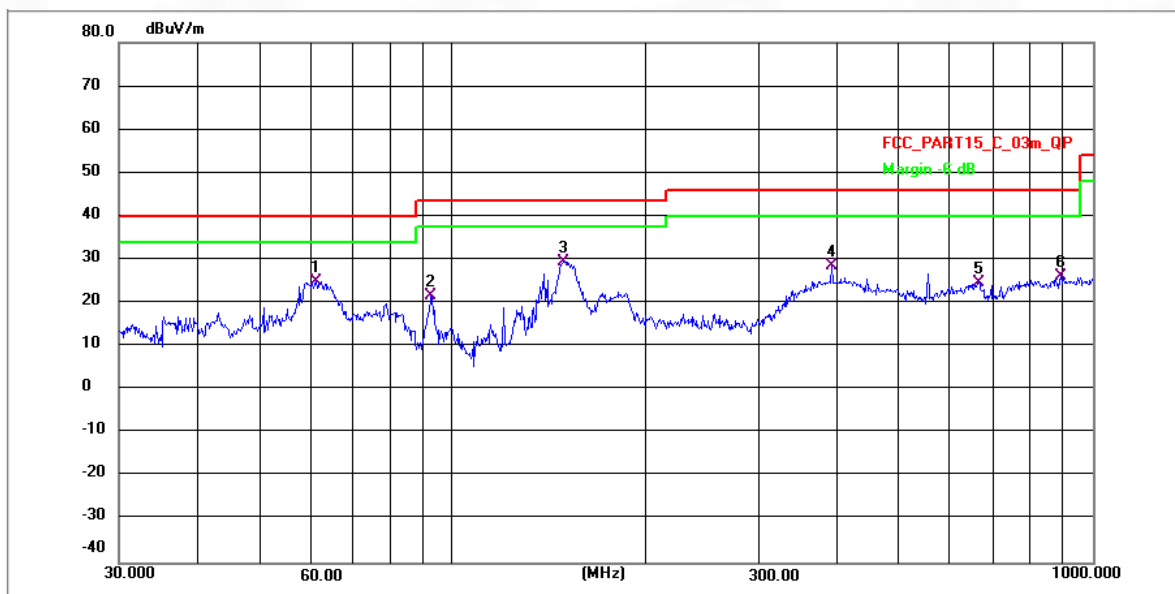
5.7.3 Test Data:

TM1 / Polarization: Horizontal / Band: U-NII 1 / BW: 20 / CH: L



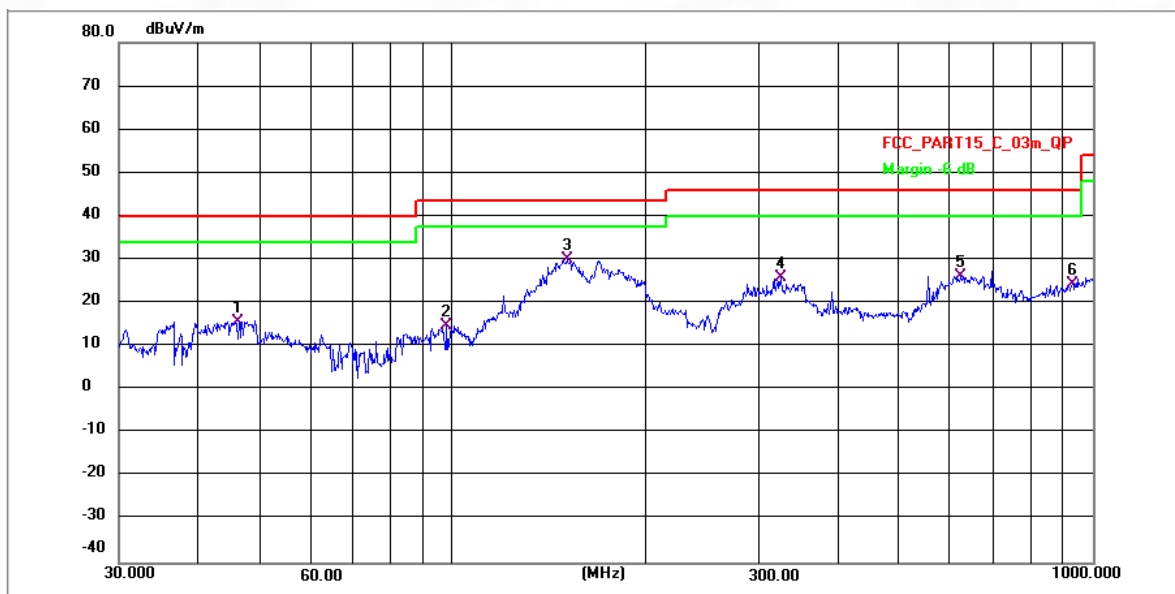
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	38.1450	35.85	-14.54	21.31	40.00	-18.69	QP	P
2	80.2211	47.86	-27.88	19.98	40.00	-20.02	QP	P
3	153.2001	54.90	-27.23	27.67	43.50	-15.83	QP	P
4 *	184.1665	56.47	-27.11	29.36	43.50	-14.14	QP	P
5	281.5006	50.12	-26.54	23.58	46.00	-22.42	QP	P
6	696.8567	56.39	-24.79	31.60	46.00	-14.40	QP	P

TM1 / Polarization: Vertical / Band: U-NII 1 / BW: 20 / CH: L



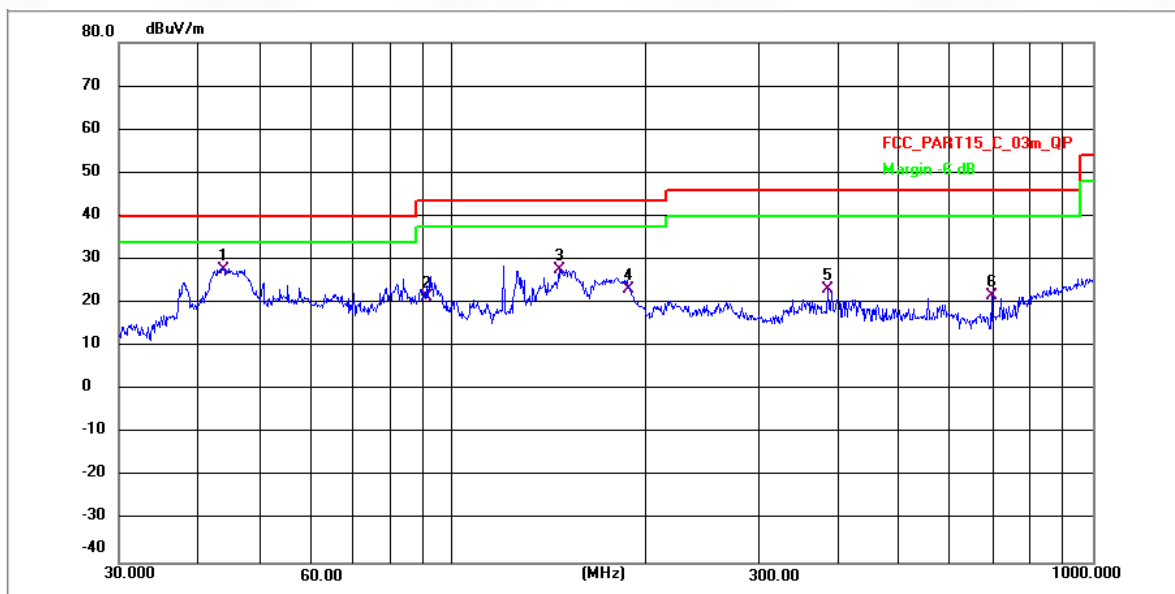
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	61.0242	52.82	-27.93	24.89	40.00	-15.11	QP	P
2	92.6246	49.36	-27.81	21.55	43.50	-21.95	QP	P
3 *	148.9624	56.81	-27.26	29.55	43.50	-13.95	QP	P
4	390.0380	54.37	-25.82	28.55	46.00	-17.45	QP	P
5	664.6371	49.65	-24.91	24.74	46.00	-21.26	QP	P
6	893.8564	50.52	-24.46	26.06	46.00	-19.94	QP	P

TM1 / Polarization: Horizontal / Band: U-NII 1 / BW: 20 / CH: M



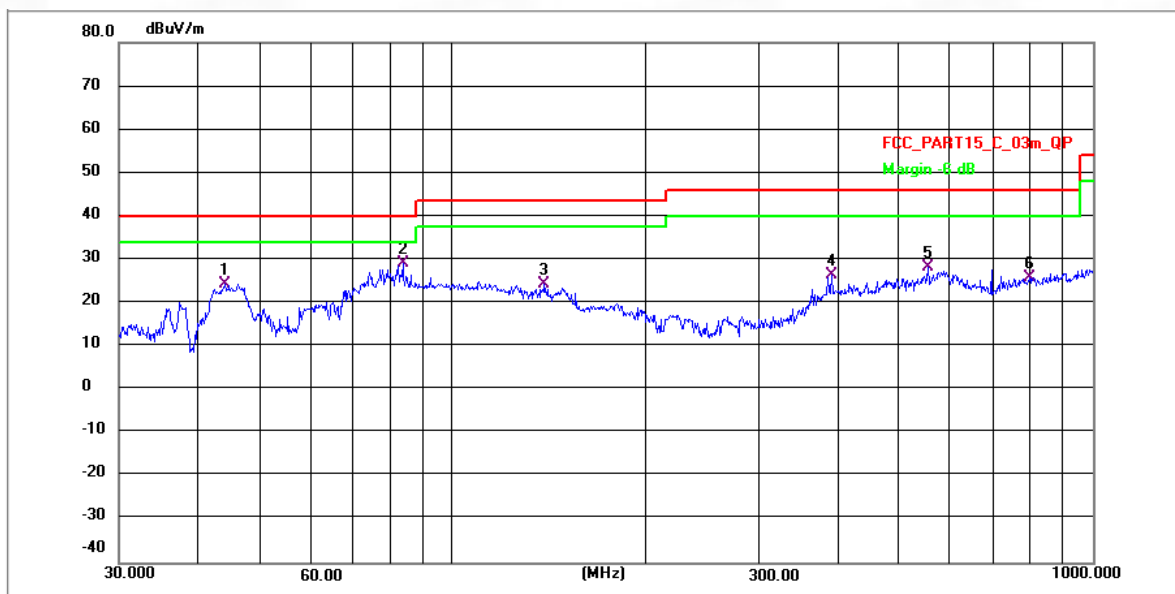
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	46.1779	43.74	-28.08	15.66	40.00	-24.34	QP	P
2	97.9700	42.49	-27.76	14.73	43.50	-28.77	QP	P
3 *	150.5377	57.21	-27.25	29.96	43.50	-13.54	QP	P
4	324.4560	52.30	-26.37	25.93	46.00	-20.07	QP	P
5	622.8900	51.33	-25.06	26.27	46.00	-19.73	QP	P
6	930.6384	48.74	-24.31	24.43	46.00	-21.57	QP	P

TM1 / Polarization: Vertical / Band: U-NII 1 / BW: 20 / CH: M



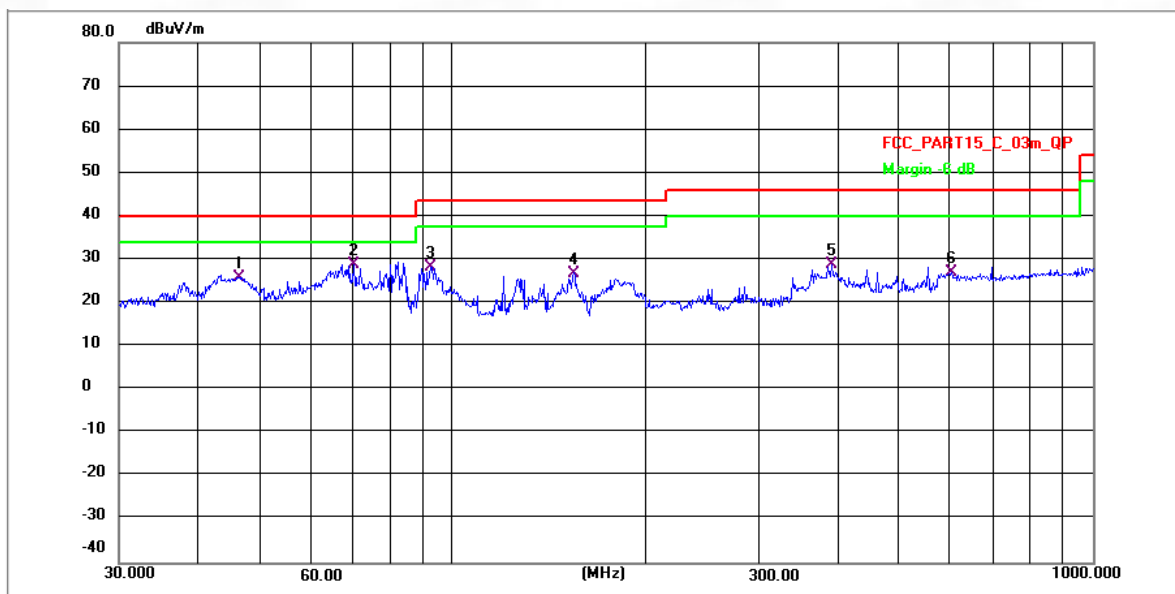
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1 *	43.8120	55.80	-28.11	27.69	40.00	-12.31	QP	P
2	91.3345	49.28	-27.82	21.46	43.50	-22.04	QP	P
3	146.8874	54.79	-27.27	27.52	43.50	-15.98	QP	P
4	188.7429	50.30	-27.07	23.23	43.50	-20.27	QP	P
5	383.9318	49.09	-25.87	23.22	46.00	-22.78	QP	P
6	696.8567	46.56	-24.79	21.77	46.00	-24.23	QP	P

TM1 / Polarization: Horizontal / Band: U-NII 1 / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	44.1200	52.51	-28.10	24.41	40.00	-15.59	QP	P
2 *	83.6687	57.01	-27.86	29.15	40.00	-10.85	QP	P
3	139.3610	51.73	-27.31	24.42	43.50	-19.08	QP	P
4	390.0380	52.13	-25.82	26.31	46.00	-19.69	QP	P
5	552.8831	53.45	-25.29	28.16	46.00	-17.84	QP	P
6	797.5801	50.96	-25.21	25.75	46.00	-20.25	QP	P

TM1 / Polarization: Vertical / Band: U-NII 1 / BW: 20 / CH: H



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	46.3402	53.94	-28.08	25.86	40.00	-14.14	QP	P
2 *	70.3365	56.76	-27.92	28.84	40.00	-11.16	QP	P
3	92.4624	56.06	-27.81	28.25	43.50	-15.25	QP	P
4	154.2785	54.13	-27.23	26.90	43.50	-16.60	QP	P
5	390.0380	54.63	-25.82	28.81	46.00	-17.19	QP	P
6	602.4820	52.21	-25.13	27.08	46.00	-18.92	QP	P

5.8 Undesirable emission limits (above 1GHz)

Test Requirement:	47 CFR Part 15.407(b)(1) 47 CFR Part 15.407(b)(2) 47 CFR Part 15.407(b)(3) 47 CFR Part 15.407(b)(10)		
Test Method:	ANSI C63.10-2013, section 12.7.4, 12.7.5, 12.7.6		
Test Limit:	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. 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. 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.		
	MHz	MHz	MHz
	0.090-0.110	16.42-16.423	399.9-410
	¹ 0.495-0.505	16.69475-16.69525	608-614
	2.1735-2.1905	16.80425-16.80475	960-1240
	4.125-4.128	25.5-25.67	1300-1427
	4.17725-4.17775	37.5-38.25	1435-1626.5
	4.20725-4.20775	73-74.6	1645.5-1646.5
	6.215-6.218	74.8-75.2	1660-1710
	6.26775-6.26825	108-121.94	1718.8-1722.2
	6.31175-6.31225	123-138	2200-2300
	8.291-8.294	149.9-150.05	2310-2390
	8.362-8.366	156.52475-156.52525	2483.5-2500
	8.37625-8.38675	156.7-156.9	2690-2900
	8.41425-8.41475	162.0125-167.17	3260-3267
	12.29-12.293	167.72-173.2	3332-3339
	12.51975-12.52025	240-285	3345.8-3358
	12.57675-12.57725	322-335.4	3600-4400
	13.36-13.41		(²)
	¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz. ² Above 38.6 The field strength of emissions appearing within these frequency bands shall not exceed the limits shown in § 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in § 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in § 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in § 15.35 apply to these measurements. Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:		
	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
Procedure:	Above 1GHz: 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 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above 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 harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.		

5.8.1 E.U.T. Operation:

Operating Environment:	
Temperature:	24.4 °C
Humidity:	53.7 %
Atmospheric Pressure:	1010 mbar

5.8.2 Test Data:

Band:		1&2A	Test mode:	11a(20)	Test channel:	L	Polarization:	H
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2101.665	80.31	-29.99	50.32	68.20	-17.88	peak	P
2	4079.965	82.05	-30.50	51.55	68.20	-16.65	peak	P
3	6696.045	83.71	-30.72	52.99	68.20	-15.21	peak	P
4	7677.315	85.01	-31.50	53.51	68.20	-14.69	peak	P
5	9980.206	85.72	-31.99	53.73	68.20	-14.47	peak	P
6	13639.817	86.57	-34.38	52.19	68.20	-16.01	peak	P

Band:		1&2A	Test mode:	11a(20)	Test channel:	L	Polarization:	V
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2225.420	78.18	-29.94	48.24	68.20	-19.96	peak	P
2	4203.720	80.92	-30.45	50.47	68.20	-17.73	peak	P
3	6819.800	83.58	-30.67	52.91	68.20	-15.29	peak	P
4	7801.070	85.88	-31.45	54.43	68.20	-13.77	peak	P
5	10103.961	87.59	-31.94	55.65	68.20	-12.55	peak	P
6	13763.572	89.44	-34.33	55.11	68.20	-13.09	peak	P

Band:		1&2A	Test mode:	11a(20)	Test channel:	M	Polarization:	H
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3457.423	75.72	-28.75	46.97	68.20	-21.23	peak	P
2	5435.723	78.46	-29.26	49.20	68.20	-19.00	peak	P
3	8051.803	81.12	-29.48	51.64	68.20	-16.56	peak	P
4	9033.073	83.42	-30.26	53.16	68.20	-15.04	peak	P
5	11335.964	85.13	-30.75	54.38	68.20	-13.82	peak	P
6	14995.575	86.98	-33.14	53.84	68.20	-14.36	peak	P

Band:		1&2A	Test mode:	11a(20)	Test channel:	M	Polarization:	V
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3683.625	74.59	-27.52	47.07	68.20	-21.13	peak	P
2	5661.925	76.33	-27.03	49.30	68.20	-18.90	peak	P
3	8278.005	77.99	-26.25	51.74	68.20	-16.46	peak	P
4	9259.275	79.29	-26.03	53.26	68.20	-14.94	peak	P
5	11562.166	80.00	-25.52	54.48	68.20	-13.72	peak	P
6	15221.777	80.85	-26.91	53.94	68.20	-14.26	peak	P

Band:		1&2A	Test mode:	11a(20)	Test channel:	H	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	3012.902	73.33	-27.82	45.51	68.20	-22.69	peak	P
2	4991.202	76.07	-28.33	47.74	68.20	-20.46	peak	P
3	7607.282	78.73	-28.55	50.18	68.20	-18.02	peak	P
4	8588.552	81.03	-29.33	51.70	68.20	-16.50	peak	P
5	10891.443	82.74	-29.82	52.92	68.20	-15.28	peak	P
6	14551.054	84.59	-32.21	52.38	68.20	-15.82	peak	P

Band:		1&2A	Test mode:	11a(20)	Test channel:	H	Polarization:	V
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	3012.902	74.26	-29.94	44.32	68.20	-23.88	peak	P
2	4991.202	76.00	-30.45	45.55	68.20	-22.65	peak	P
3	7607.282	77.66	-30.67	46.99	68.20	-21.21	peak	P
4	8588.552	78.96	-31.45	47.51	68.20	-20.69	peak	P
5	10891.443	79.67	-31.94	47.73	68.20	-20.47	peak	P
6	14551.054	80.52	-34.33	46.19	68.20	-22.01	peak	P

Band:		2C	Test mode:	11a(20)	Test channel:	L	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	4981.843	74.97	-30.00	44.97	68.20	-23.23	peak	P
2	6960.143	76.71	-30.51	46.20	68.20	-22.00	peak	P
3	9576.223	78.37	-30.73	47.64	68.20	-20.56	peak	P
4	10557.493	79.67	-31.51	48.16	68.20	-20.04	peak	P
5	12860.384	80.38	-32.00	48.38	68.20	-19.82	peak	P
6	16519.995	81.23	-34.39	46.84	68.20	-21.36	peak	P

Band:		2C	Test mode:	11a(20)	Test channel:	L	Polarization:	V
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	4404.852	75.93	-29.48	46.45	68.20	-21.75	peak	P
2	6383.152	77.67	-29.99	47.68	68.20	-20.52	peak	P
3	8999.232	79.33	-30.21	49.12	68.20	-19.08	peak	P
4	9980.502	80.63	-30.99	49.64	68.20	-18.56	peak	P
5	12283.393	81.34	-31.48	49.86	68.20	-18.34	peak	P
6	15943.004	82.19	-33.87	48.32	68.20	-19.88	peak	P

Band:		2C	Test mode:	11a(20)	Test channel:	M	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	5783.787	77.97	-28.85	49.12	68.20	-19.08	peak	P
2	7762.087	79.71	-29.36	50.35	68.20	-17.85	peak	P
3	10378.167	81.37	-29.58	51.79	68.20	-16.41	peak	P
4	11359.437	82.67	-30.36	52.31	68.20	-15.89	peak	P
5	13662.328	83.38	-30.85	52.53	68.20	-15.67	peak	P
6	17321.939	84.23	-33.24	50.99	68.20	-17.21	peak	P

Band:		2C	Test mode:	11a(20)	Test channel:	M	Polarization:	V
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	3225.800	77.83	-30.07	47.76	68.20	-20.44	peak	P
2	5203.100	79.57	-30.58	48.99	68.20	-19.21	peak	P
3	7818.180	81.23	-30.80	50.43	68.20	-17.77	peak	P
4	8798.450	82.53	-31.58	50.95	68.20	-17.25	peak	P
5	11100.341	83.24	-32.07	51.17	68.20	-17.03	peak	P
6	14758.952	84.09	-34.46	49.63	68.20	-18.57	peak	P

Band:		2C	Test mode:	11a(20)	Test channel:	H	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	3078.662	77.98	-29.52	48.46	68.20	-19.74	peak	P
2	5055.962	79.72	-30.03	49.69	68.20	-18.51	peak	P
3	7671.042	81.38	-30.25	51.13	68.20	-17.07	peak	P
4	8651.312	82.68	-31.03	51.65	68.20	-16.55	peak	P
5	10953.203	83.39	-31.52	51.87	68.20	-16.33	peak	P
6	14611.814	84.24	-33.91	50.33	68.20	-17.87	peak	P

Band:		2C	Test mode:	11a(20)	Test channel:	H	Polarization:	V
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	2878.923	78.18	-29.06	49.12	68.20	-19.08	peak	P
2	4856.223	79.92	-29.57	50.35	68.20	-17.85	peak	P
3	7471.303	81.58	-29.79	51.79	68.20	-16.41	peak	P
4	8451.573	82.88	-30.57	52.31	68.20	-15.89	peak	P
5	10753.464	83.59	-31.06	52.53	68.20	-15.67	peak	P
6	14412.075	84.44	-33.45	50.99	68.20	-17.21	peak	P

Band:		3	Test mode:	11a(20)	Test channel:	L	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	2655.966	74.83	-29.81	45.02	68.20	-23.18	peak	P
2	4633.266	76.57	-30.32	46.25	68.20	-21.95	peak	P
3	7248.346	78.23	-30.54	47.69	68.20	-20.51	peak	P
4	8228.616	79.53	-31.32	48.21	68.20	-19.99	peak	P
5	10530.507	80.24	-31.81	48.43	68.20	-19.77	peak	P
6	14189.118	81.09	-34.20	46.89	68.20	-21.31	peak	P

Band:		3	Test mode:	11a(20)	Test channel:	L	Polarization:	V
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	2852.423	75.72	-28.78	46.94	68.20	-21.26	peak	P
2	4829.723	77.46	-29.29	48.17	68.20	-20.03	peak	P
3	7444.803	79.12	-29.51	49.61	68.20	-18.59	peak	P
4	8425.073	80.42	-30.29	50.13	68.20	-18.07	peak	P
5	10726.964	81.13	-30.78	50.35	68.20	-17.85	peak	P
6	14385.575	81.98	-33.17	48.81	68.20	-19.39	peak	P

Band:		3	Test mode:	11a(20)	Test channel:	M	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	3552.662	77.92	-30.05	47.87	68.20	-20.33	peak	P
2	5529.962	79.66	-30.56	49.10	68.20	-19.10	peak	P
3	8145.042	81.32	-30.78	50.54	68.20	-17.66	peak	P
4	9125.312	82.62	-31.56	51.06	68.20	-17.14	peak	P
5	11427.203	83.33	-32.05	51.28	68.20	-16.92	peak	P
6	15085.814	84.18	-34.44	49.74	68.20	-18.46	peak	P

Band:		3	Test mode:	11a(20)	Test channel:	M	Polarization:	V
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	3225.995	76.97	-29.15	47.82	68.20	-20.38	peak	P
2	5203.295	78.71	-29.66	49.05	68.20	-19.15	peak	P
3	7818.375	80.37	-29.88	50.49	68.20	-17.71	peak	P
4	8798.645	81.67	-30.66	51.01	68.20	-17.19	peak	P
5	11100.536	82.38	-31.15	51.23	68.20	-16.97	peak	P
6	14759.147	83.23	-33.54	49.69	68.20	-18.51	peak	P

Band:		3	Test mode:	11a(20)	Test channel:	H	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	2112.300	79.07	-29.84	49.23	68.20	-18.97	peak	P
2	4089.600	80.81	-30.35	50.46	68.20	-17.74	peak	P
3	6704.680	82.47	-30.57	51.90	68.20	-16.30	peak	P
4	7684.950	83.77	-31.35	52.42	68.20	-15.78	peak	P
5	9986.841	84.48	-31.84	52.64	68.20	-15.56	peak	P
6	13645.452	85.33	-34.23	51.10	68.20	-17.10	peak	P

Band:		3	Test mode:	11a(20)	Test channel:	H	Polarization:	V
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	2445.662	78.30	-29.61	48.69	68.20	-19.51	peak	P
2	4422.962	80.04	-30.12	49.92	68.20	-18.28	peak	P
3	7038.042	81.70	-30.34	51.36	68.20	-16.84	peak	P
4	8018.312	83.00	-31.12	51.88	68.20	-16.32	peak	P
5	10320.203	83.71	-31.61	52.10	68.20	-16.10	peak	P
6	13978.814	84.56	-34.00	50.56	68.20	-17.64	peak	P

Band:		1&2A	Test mode:	11n(40)	Test channel:	L	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	2354.621	79.28	-30.05	49.23	68.20	-18.97	peak	P
2	4331.921	82.34	-30.56	51.78	68.20	-16.42	peak	P
3	6947.001	84.00	-30.78	53.22	68.20	-14.98	peak	P
4	7927.271	85.30	-31.56	53.74	68.20	-14.46	peak	P
5	10229.162	86.01	-32.05	53.96	68.20	-14.24	peak	P
6	13887.773	86.86	-34.44	52.42	68.20	-15.78	peak	P

Band:		1&2A	Test mode:	11a(20)	Test channel:	L	Polarization:	V
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	2684.621	77.89	-30.13	47.77	68.20	-20.44	peak	P
2	4661.921	80.95	-30.64	50.32	68.20	-17.89	peak	P
3	7277.001	82.61	-30.86	51.76	68.20	-16.45	peak	P
4	8257.271	83.91	-31.64	52.28	68.20	-15.93	peak	P
5	10559.162	82.58	-32.13	50.46	68.20	-17.75	peak	P
6	14217.773	85.47	-34.52	50.96	68.20	-17.25	peak	P

Band:		1&2A	Test mode:	11n(40)	Test channel:	M	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	2976.300	73.59	-29.61	43.98	68.20	-24.22	peak	P
2	4953.600	79.92	-30.12	49.80	68.20	-18.40	peak	P
3	7568.680	81.58	-30.34	51.24	68.20	-16.96	peak	P
4	8548.950	80.86	-31.12	49.74	68.20	-18.46	peak	P
5	10850.841	81.55	-31.61	49.94	68.20	-18.26	peak	P
6	14509.452	84.44	-34.00	50.44	68.20	-17.76	peak	P

Band:		1&2A	Test mode:	11n(40)	Test channel:	M	Polarization:	V
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	4001.300	75.04	-28.94	46.10	68.20	-22.10	peak	P
2	5978.600	81.37	-29.45	51.92	68.20	-16.28	peak	P
3	8593.680	83.03	-29.67	53.36	68.20	-14.84	peak	P
4	9573.950	82.31	-30.45	51.86	68.20	-16.34	peak	P
5	11875.841	83.00	-30.94	52.06	68.20	-16.14	peak	P
6	15534.452	85.89	-33.33	52.56	68.20	-15.64	peak	P

Band:		1&2A	Test mode:	11n(40)	Test channel:	H	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	3977.300	75.60	-30.05	45.55	68.20	-22.65	peak	P
2	5954.600	81.93	-30.56	51.37	68.20	-16.83	peak	P
3	8569.680	83.59	-30.78	52.81	68.20	-15.39	peak	P
4	9549.950	82.87	-31.56	51.31	68.20	-16.89	peak	P
5	11851.841	82.19	-32.05	50.14	68.20	-18.06	peak	P
6	15510.452	86.45	-34.44	52.01	68.20	-16.19	peak	P

Band:		1&2A	Test mode:	11n(40)	Test channel:	H	Polarization:	V
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	3225.300	74.71	-29.79	44.92	68.20	-23.28	peak	P
2	5202.600	81.04	-30.30	50.74	68.20	-17.46	peak	P
3	7817.680	82.70	-30.52	52.18	68.20	-16.02	peak	P
4	8797.950	81.98	-31.30	50.68	68.20	-17.52	peak	P
5	11099.841	81.30	-31.79	49.51	68.20	-18.69	peak	P
6	14758.452	85.56	-34.18	51.38	68.20	-16.82	peak	P

Band:		2C	Test mode:	11a(20)	Test channel:	L	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	2198.531	72.59	-28.81	43.78	68.20	-24.42	peak	P
2	4175.831	78.92	-29.32	49.60	68.20	-18.60	peak	P
3	6790.911	80.58	-29.54	51.04	68.20	-17.16	peak	P
4	7771.181	79.86	-30.32	49.54	68.20	-18.66	peak	P
5	10073.072	79.18	-30.81	48.37	68.20	-19.83	peak	P
6	13731.683	83.44	-33.20	50.24	68.20	-17.96	peak	P

Band:		2C	Test mode:	11a(20)	Test channel:	L	Polarization:	V
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	2358.300	73.62	-28.81	44.81	68.20	-23.39	peak	P
2	4335.600	79.95	-29.32	50.63	68.20	-17.57	peak	P
3	6950.680	81.61	-29.54	52.07	68.20	-16.13	peak	P
4	7930.950	80.89	-30.32	50.57	68.20	-17.63	peak	P
5	10232.841	80.21	-30.81	49.40	68.20	-18.80	peak	P
6	13891.452	82.62	-33.20	49.42	68.20	-18.78	peak	P

Band:		2C	Test mode:	11a(20)	Test channel:	M	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	2487.300	74.67	-29.81	44.86	68.20	-23.34	peak	P
2	4464.600	81.00	-30.32	50.68	68.20	-17.52	peak	P
3	7079.680	82.66	-30.54	52.12	68.20	-16.08	peak	P
4	8059.950	79.23	-31.32	47.91	68.20	-20.29	peak	P
5	10361.841	81.26	-31.81	49.45	68.20	-18.75	peak	P
6	14020.452	83.67	-34.20	49.47	68.20	-18.73	peak	P

Band:		2C	Test mode:	11a(20)	Test channel:	M	Polarization:	V
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	3225.652	71.05	-27.86	43.19	68.20	-25.01	peak	P
2	5202.952	77.38	-28.37	49.01	68.20	-19.19	peak	P
3	7818.032	79.04	-28.59	50.45	68.20	-17.75	peak	P
4	8798.302	75.61	-29.37	46.24	68.20	-21.96	peak	P
5	11100.193	77.64	-29.86	47.78	68.20	-20.42	peak	P
6	14758.804	80.05	-28.95	51.10	68.20	-17.10	peak	P

Band:		2C	Test mode:	11a(20)	Test channel:	H	Polarization:	H
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2587.300	71.98	-28.78	43.20	68.20	-25.00	peak	P
2	4564.600	78.31	-29.29	49.02	68.20	-19.18	peak	P
3	7179.680	79.97	-29.51	50.46	68.20	-17.74	peak	P
4	8159.950	76.54	-30.29	46.25	68.20	-21.95	peak	P
5	10461.841	78.57	-30.78	47.79	68.20	-20.41	peak	P
6	14120.452	80.98	-29.87	51.11	68.20	-17.09	peak	P

Band:		2C	Test mode:	11a(20)	Test channel:	H	Polarization:	V
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2058.300	75.92	-28.95	46.97	68.20	-21.23	peak	P
2	4035.600	77.71	-29.46	48.25	68.20	-19.95	peak	P
3	6650.680	79.37	-29.68	49.69	68.20	-18.51	peak	P
4	7630.950	75.94	-30.46	45.48	68.20	-22.72	peak	P
5	9932.841	77.97	-30.95	47.02	68.20	-21.18	peak	P
6	13591.452	80.38	-30.04	50.34	68.20	-17.86	peak	P

Band:		3	Test mode:	11a(20)	Test channel:	L	Polarization:	H
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1725.321	77.13	-29.95	47.18	68.20	-21.02	peak	P
2	3124.321	78.92	-30.46	48.46	68.20	-19.74	peak	P
3	6738.001	80.58	-30.68	49.90	68.20	-18.30	peak	P
4	7718.271	77.15	-31.46	45.69	68.20	-22.51	peak	P
5	10020.162	79.18	-31.95	47.23	68.20	-20.97	peak	P
6	13678.773	81.59	-31.04	50.55	68.20	-17.65	peak	P
Band:		3	Test mode:	11n(40)	Test channel:	L	Polarization:	V
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1775.321	80.58	-29.40	51.18	68.20	-17.02	peak	P
2	3174.321	82.37	-29.91	52.46	68.20	-15.74	peak	P
3	6788.001	84.03	-30.13	53.90	68.20	-14.30	peak	P
4	7768.271	80.60	-30.91	49.69	68.20	-18.51	peak	P
5	10070.162	82.63	-31.40	51.23	68.20	-16.97	peak	P
6	13728.773	85.04	-30.49	54.55	68.20	-13.65	peak	P

Band:		3	Test mode:	11n(40)	Test channel:	H	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	2095.321	79.01	-29.19	49.82	68.20	-18.38	peak	P
2	3494.321	80.80	-29.70	51.10	68.20	-17.10	peak	P
3	7108.001	82.46	-29.92	52.54	68.20	-15.66	peak	P
4	8088.271	79.03	-30.70	48.33	68.20	-19.87	peak	P
5	10390.162	81.06	-31.19	49.87	68.20	-18.33	peak	P
6	14048.773	83.47	-30.28	53.19	68.20	-15.01	peak	P

Band:		3	Test mode:	11n(40)	Test channel:	H	Polarization:	V
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	2463.321	75.84	-29.28	46.56	68.20	-21.64	peak	P
2	3862.321	77.63	-29.79	47.84	68.20	-20.36	peak	P
3	7476.001	79.29	-30.01	49.28	68.20	-18.92	peak	P
4	8456.271	75.86	-30.79	45.07	68.20	-23.13	peak	P
5	10758.162	77.89	-31.28	46.61	68.20	-21.59	peak	P
6	14416.773	80.30	-30.37	49.93	68.20	-18.27	peak	P

Band:		1&2A	Test mode:	11ac(80)	Test channel:	L	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	3267.325	74.21	-28.16	46.05	68.20	-22.15	peak	P
2	4666.325	76.00	-28.67	47.33	68.20	-20.87	peak	P
3	8280.005	77.66	-28.89	48.77	68.20	-19.43	peak	P
4	9260.275	74.23	-29.67	44.56	68.20	-23.64	peak	P
5	11562.166	76.26	-30.16	46.10	68.20	-22.10	peak	P
6	15220.777	78.67	-29.25	49.42	68.20	-18.78	peak	P
Band:		1&2A	Test mode:	11ac(80)	Test channel:	L	Polarization:	V
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	3658.000	77.11	-29.09	48.02	68.20	-20.18	peak	P
2	5057.000	78.90	-29.60	49.30	68.20	-18.90	peak	P
3	8670.680	80.56	-29.82	50.74	68.20	-17.46	peak	P
4	9650.950	77.13	-30.60	46.53	68.20	-21.67	peak	P
5	11952.841	79.16	-31.09	48.07	68.20	-20.13	peak	P
6	15611.452	81.57	-30.18	51.39	68.20	-16.81	peak	P

Band:		1&2A	Test mode:	11ac (80)	Test channel:	H	Polarization:	H
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	3431.365	77.88	-28.81	49.07	68.20	-19.13	peak	P
2	4830.365	79.67	-29.32	50.35	68.20	-17.85	peak	P
3	8444.045	81.33	-29.54	51.79	68.20	-16.41	peak	P
4	9424.315	77.90	-30.32	47.58	68.20	-20.62	peak	P
5	11726.206	79.93	-30.81	49.12	68.20	-19.08	peak	P
6	15384.817	82.34	-29.90	52.44	68.20	-15.76	peak	P

Band:		1&2A	Test mode:	11ac (80)	Test channel:	H	Polarization:	V
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2592.325	75.87	-29.81	46.06	68.20	-22.14	peak	P
2	3991.325	77.66	-30.32	47.34	68.20	-20.86	peak	P
3	7605.005	79.32	-30.54	48.78	68.20	-19.42	peak	P
4	8585.275	75.89	-31.32	44.57	68.20	-23.63	peak	P
5	10887.166	77.92	-31.81	46.11	68.20	-22.09	peak	P
6	14545.777	80.33	-30.90	49.43	68.20	-18.77	peak	P

Band:		2C	Test mode:	11ac (80)	Test channel:	L	Polarization:	H
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2137.321	77.77	-29.15	48.62	68.20	-19.58	peak	P
2	3536.321	79.56	-29.66	49.90	68.20	-18.30	peak	P
3	7150.001	81.22	-29.88	51.34	68.20	-16.86	peak	P
4	8130.271	77.79	-30.66	47.13	68.20	-21.07	peak	P
5	10432.162	79.82	-31.15	48.67	68.20	-19.53	peak	P
6	14090.773	82.23	-30.24	51.99	68.20	-16.21	peak	P
Band:		2C	Test mode:	11ac (80)	Test channel:	L	Polarization:	V
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	1692.658	77.11	-29.22	47.89	68.20	-20.31	peak	P
2	3091.658	78.90	-29.73	49.17	68.20	-19.03	peak	P
3	6705.338	80.56	-29.95	50.61	68.20	-17.59	peak	P
4	7685.608	77.13	-30.73	46.40	68.20	-21.80	peak	P
5	9987.499	79.16	-31.22	47.94	68.20	-20.26	peak	P
6	13646.110	81.57	-30.31	51.26	68.20	-16.94	peak	P

Band:		2C	Test mode:	11ac (80)	Test channel:	M	Polarization:	H
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2071.321	77.78	-29.85	47.93	68.20	-20.27	peak	P
2	3470.321	79.57	-30.36	49.21	68.20	-18.99	peak	P
3	7084.001	81.23	-30.58	50.65	68.20	-17.55	peak	P
4	8064.271	77.80	-31.36	46.44	68.20	-21.76	peak	P
5	10366.162	79.83	-31.85	47.98	68.20	-20.22	peak	P
6	14024.773	82.24	-30.94	51.30	68.20	-16.90	peak	P

Band:		2C	Test mode:	11ac (80)	Test channel:	M	Polarization:	V
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2465.231	77.34	-28.52	48.82	68.20	-19.38	peak	P
2	3864.231	79.13	-29.03	50.10	68.20	-18.10	peak	P
3	7477.911	80.79	-29.25	51.54	68.20	-16.66	peak	P
4	8458.181	77.36	-30.03	47.33	68.20	-20.87	peak	P
5	10760.072	79.39	-30.52	48.87	68.20	-19.33	peak	P
6	14418.683	81.80	-29.61	52.19	68.20	-16.01	peak	P

Band:		2C	Test mode:	11ac (80)	Test channel:	H	Polarization:	H
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2592.213	77.87	-28.29	49.58	68.20	-18.62	peak	P
2	3991.213	79.66	-28.80	50.86	68.20	-17.34	peak	P
3	7604.893	81.32	-29.02	52.30	68.20	-15.90	peak	P
4	8585.163	77.89	-29.80	48.09	68.20	-20.11	peak	P
5	10887.054	79.92	-30.29	49.63	68.20	-18.57	peak	P
6	14545.665	82.33	-29.38	52.95	68.20	-15.25	peak	P
Band:		2C	Test mode:	11ac (80)	Test channel:	H	Polarization:	V
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F
1	2458.369	78.13	-28.28	49.85	68.20	-18.35	peak	P
2	3857.369	79.92	-28.79	51.13	68.20	-17.07	peak	P
3	7471.049	81.58	-29.01	52.57	68.20	-15.63	peak	P
4	8451.319	78.15	-29.79	48.36	68.20	-19.84	peak	P
5	10753.210	80.18	-30.28	49.90	68.20	-18.30	peak	P
6	14411.821	82.59	-29.37	53.22	68.20	-14.98	peak	P

Band:		3	Test mode:	11ac(80)	Test channel:	M	Polarization:	H
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	1838.365	78.78	-28.52	50.26	68.20	-17.94	peak	P
2	3237.365	80.57	-29.03	51.54	68.20	-16.66	peak	P
3	6851.045	82.23	-29.25	52.98	68.20	-15.22	peak	P
4	7831.315	78.80	-30.03	48.77	68.20	-19.43	peak	P
5	10133.206	80.83	-30.52	50.31	68.20	-17.89	peak	P
6	13791.817	83.24	-29.61	53.63	68.20	-14.57	peak	P

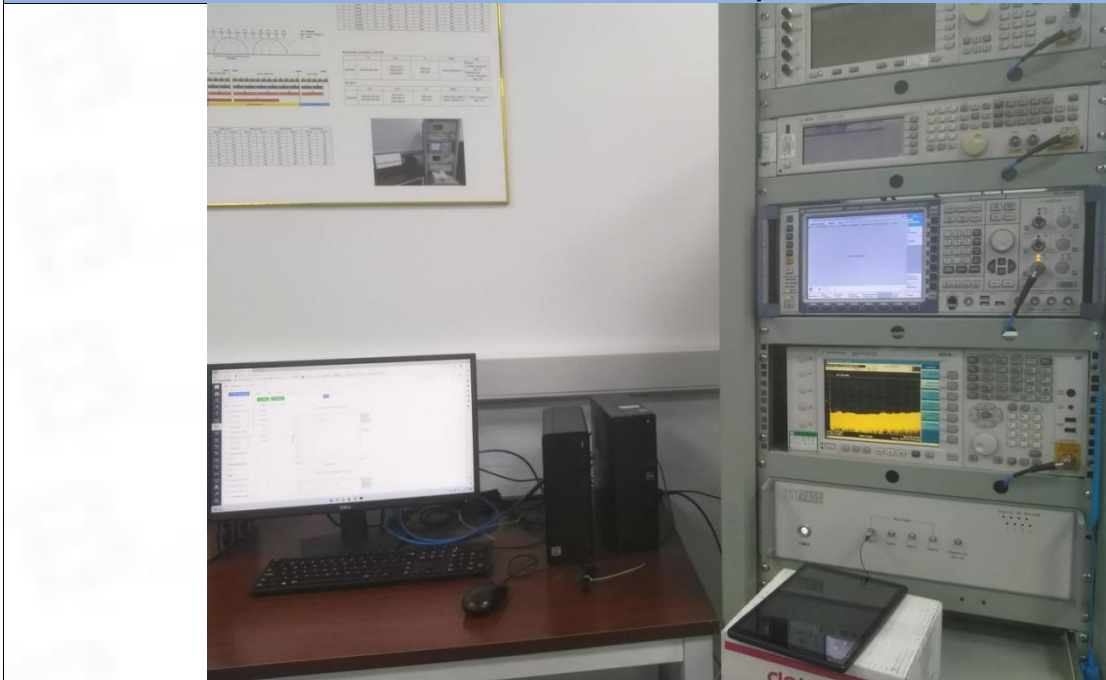
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No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	P/F
1	3264.321	78.26	-28.85	49.41	68.20	-18.79	peak	P
2	4663.321	80.05	-29.36	50.69	68.20	-17.51	peak	P
3	8277.001	81.71	-29.58	52.13	68.20	-16.07	peak	P
4	9257.271	78.28	-30.36	47.92	68.20	-20.28	peak	P
5	11559.162	80.31	-30.85	49.46	68.20	-18.74	peak	P
6	15217.773	82.72	-29.94	52.78	68.20	-15.42	peak	P

6 Test Setup Photos

Conducted Emission at AC power line



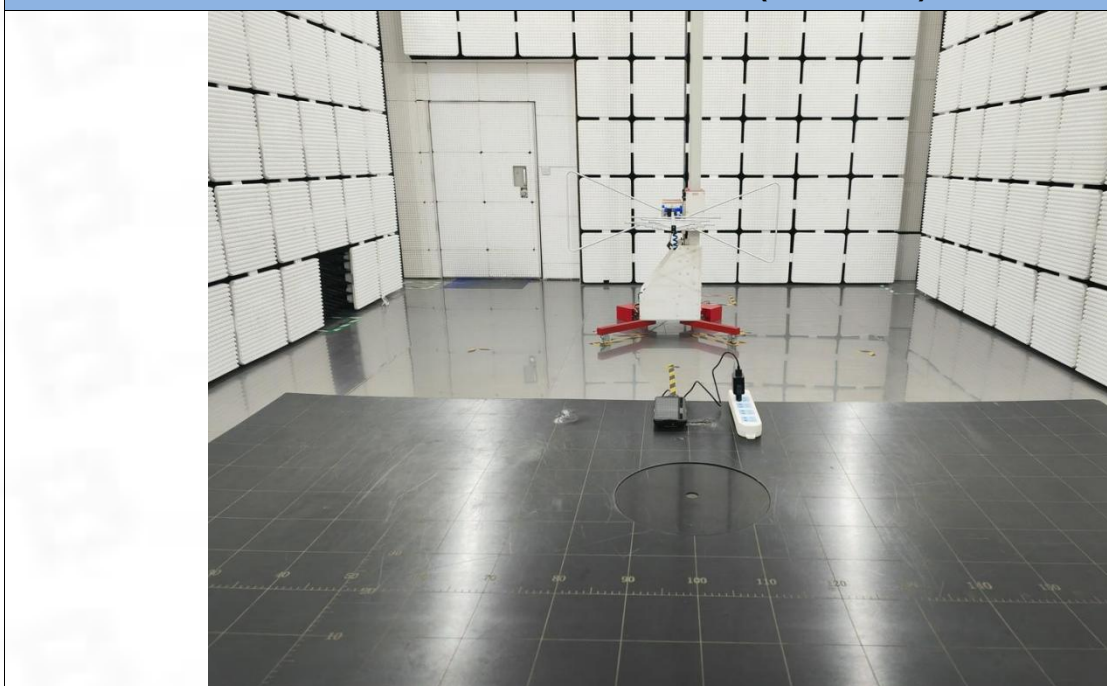
Duty Cycle
Maximum conducted output power
Power spectral density
Emission bandwidth and occupied bandwidth



Band edge emissions (Radiated)
Undesirable emission limits (above 1GHz)



Undesirable emission limits (below 1GHz)



7 EUT Constructional Details (EUT Photos)

Please refer to the report No.BTF-SZ230303R-020.

Appendix

1. Duty Cycle

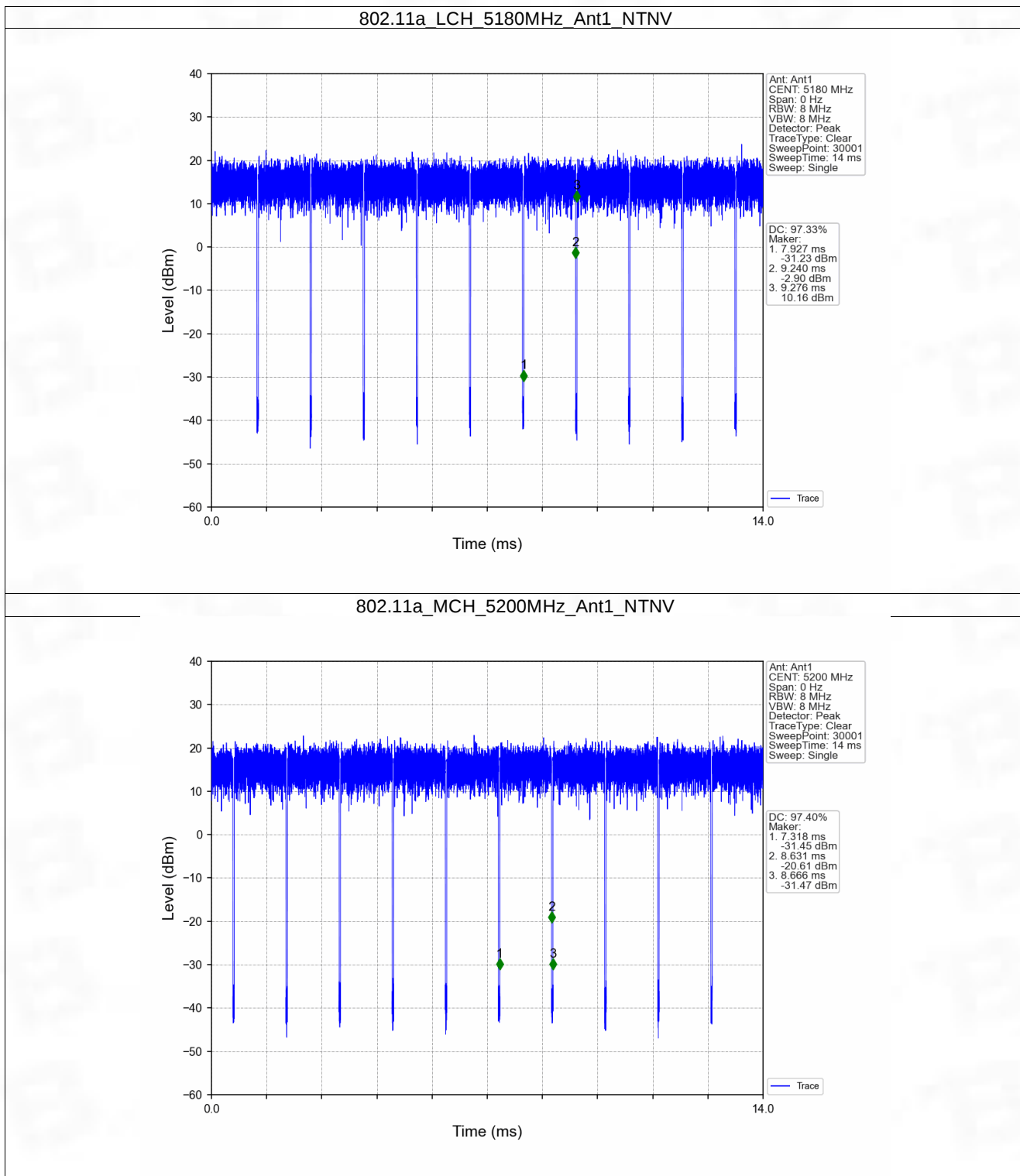
1.1 Ant1

1.1.1 Test Result

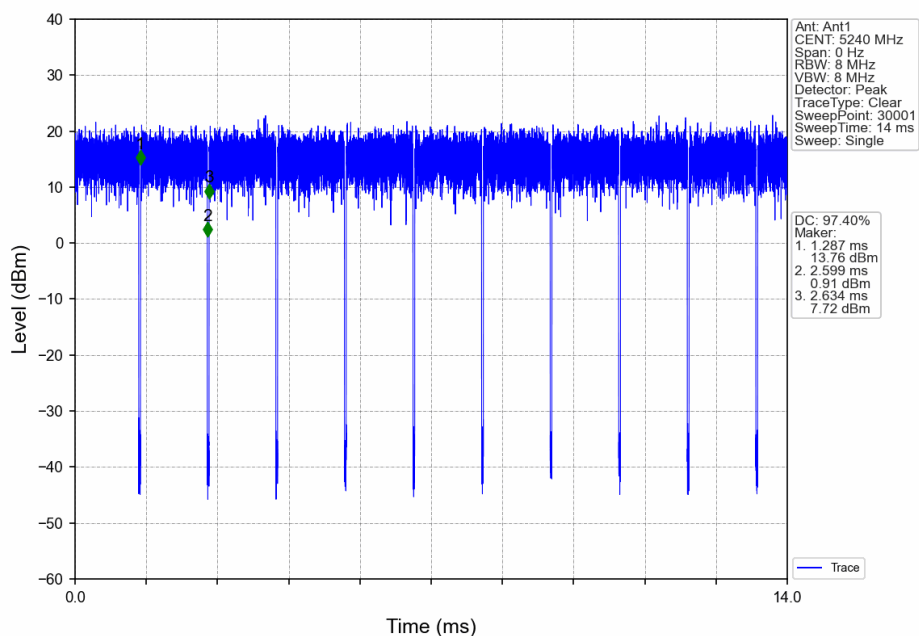
Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.313	1.349	97.33	0.12	0.14
		5200	1.313	1.348	97.40	0.11	0.07
		5240	1.312	1.347	97.40	0.11	0.03
		5260	1.313	1.348	97.40	0.11	0.03
		5300	1.312	1.348	97.33	0.12	0.03
		5320	1.312	1.347	97.40	0.11	0.03
		5500	1.312	1.348	97.33	0.12	0.03
		5580	1.313	1.348	97.40	0.11	0.14
		5700	1.313	1.348	97.40	0.11	0.10
		5745	1.314	1.349	97.41	0.11	0.07
		5785	1.313	1.348	97.40	0.11	0.03
		5825	1.313	1.348	97.40	0.11	0.03
802.11n (HT20)	SISO	5180	1.301	1.336	97.38	0.12	0.10
		5200	1.302	1.337	97.38	0.12	0.10
		5240	1.300	1.336	97.31	0.12	0.03
		5260	1.300	1.336	97.31	0.12	0.03
		5300	1.300	1.335	97.38	0.12	0.04
		5320	1.300	1.336	97.31	0.12	0.03
		5500	1.300	1.336	97.31	0.12	0.03
		5580	1.301	1.336	97.38	0.12	0.10
		5700	1.302	1.335	97.53	0.11	0.03
		5745	1.300	1.335	97.38	0.12	0.00
		5785	1.300	1.335	97.38	0.12	0.04
		5825	1.301	1.336	97.38	0.12	0.04
802.11n (HT40)	SISO	5190	0.648	0.683	94.88	0.23	0.04
		5230	0.649	0.683	95.02	0.22	0.03
		5270	0.648	0.683	94.88	0.23	0.03
		5310	0.648	0.683	94.88	0.23	0.03
		5510	0.648	0.683	94.88	0.23	0.03
		5550	0.649	0.683	95.02	0.22	0.03
		5670	0.648	0.683	94.88	0.23	0.03
		5755	0.648	0.683	94.88	0.23	0.04
		5795	0.648	0.683	94.88	0.23	0.03
		5825	0.648	0.683	94.88	0.23	0.03
802.11ac (VHT20)	SISO	5180	1.289	1.324	97.36	0.12	0.07
		5200	1.288	1.323	97.35	0.12	0.03
		5240	1.288	1.324	97.28	0.12	0.04
		5260	1.288	1.324	97.28	0.12	0.03
		5300	1.288	1.324	97.28	0.12	0.07
		5320	1.289	1.324	97.36	0.12	0.04
		5500	1.289	1.324	97.36	0.12	0.04
		5580	1.288	1.323	97.35	0.12	0.03
		5700	1.288	1.323	97.35	0.12	0.03
		5745	1.288	1.324	97.28	0.12	0.06
		5785	1.288	1.323	97.35	0.12	0.06
		5825	1.288	1.324	97.28	0.12	0.04
802.11ac (VHT40)	SISO	5190	0.636	0.671	94.78	0.23	0.00
		5230	0.636	0.671	94.78	0.23	0.03

		5270	0.636	0.670	94.93	0.23	0.04
		5310	0.636	0.671	94.78	0.23	0.03
		5510	0.637	0.671	94.93	0.23	0.04
		5550	0.636	0.671	94.78	0.23	0.04
		5670	0.636	0.671	94.78	0.23	0.07
		5755	0.637	0.671	94.93	0.23	0.07
		5795	0.636	0.671	94.78	0.23	0.07
802.11ac (VHT80)	SISO	5210	1.048	1.076	97.40	0.11	0.03
		5290	1.048	1.077	97.31	0.12	0.03
		5530	1.048	1.076	97.40	0.11	0.03
		5610	1.048	1.076	97.40	0.11	0.03
		5775	1.048	1.076	97.40	0.11	0.03

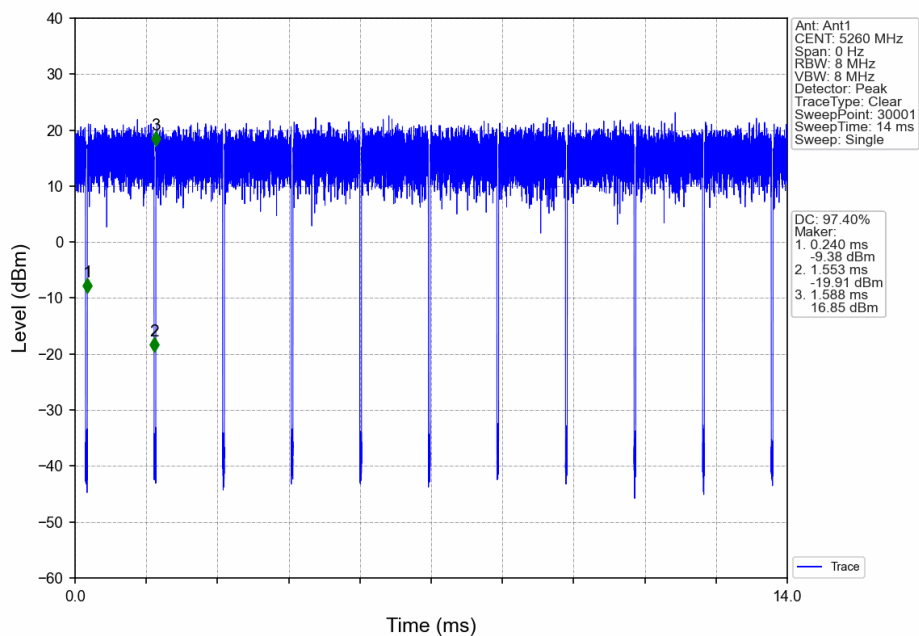
1.1.2 Test Graph



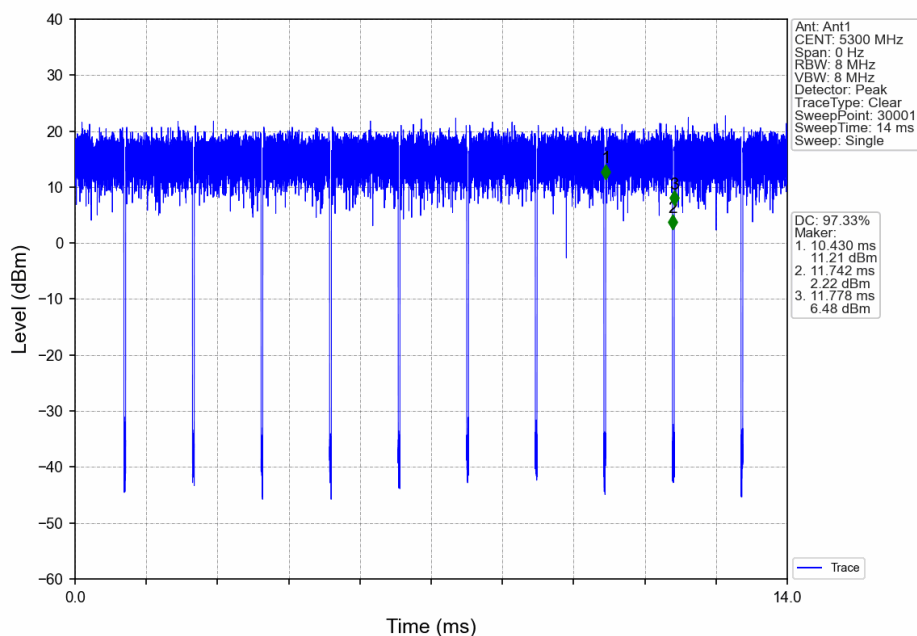
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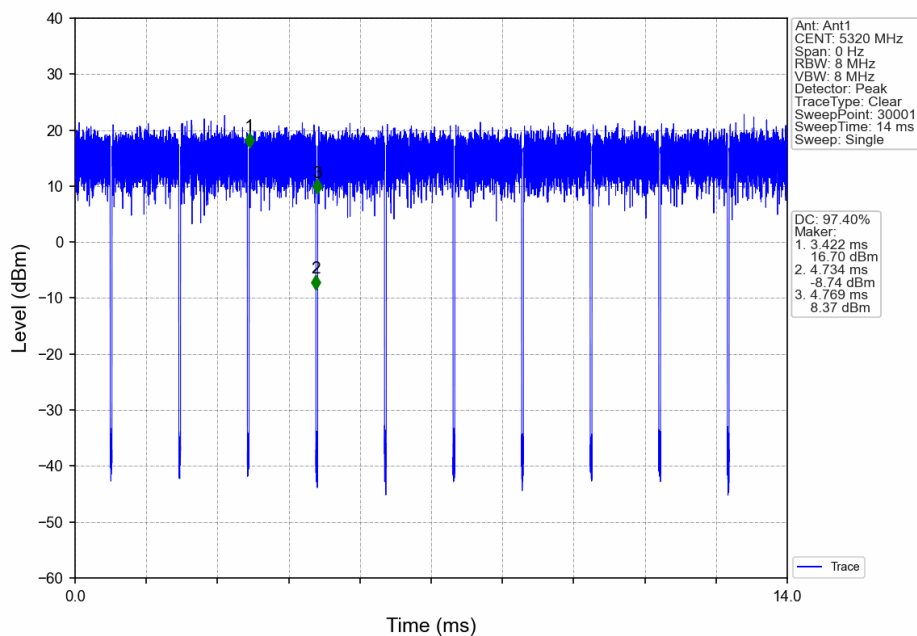
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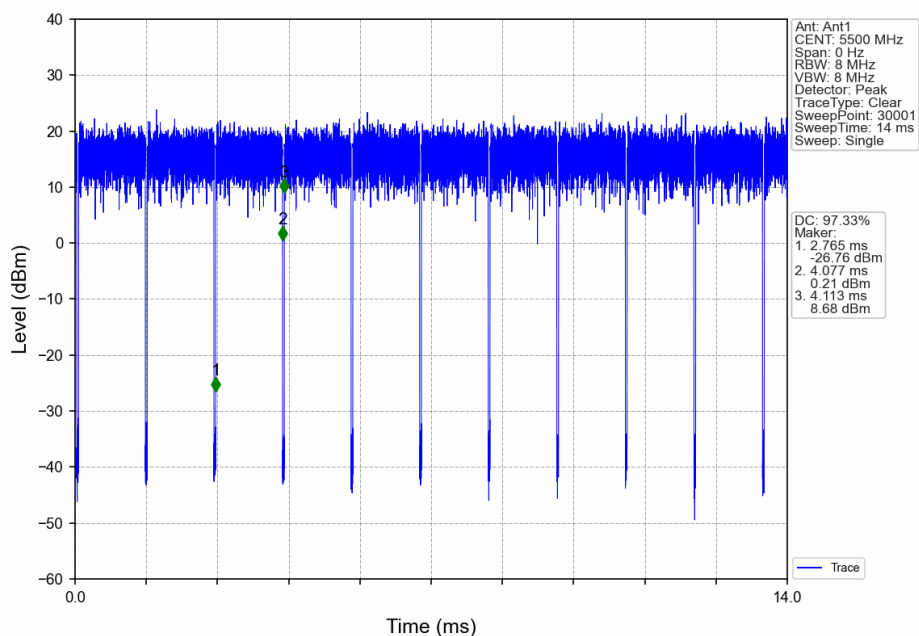
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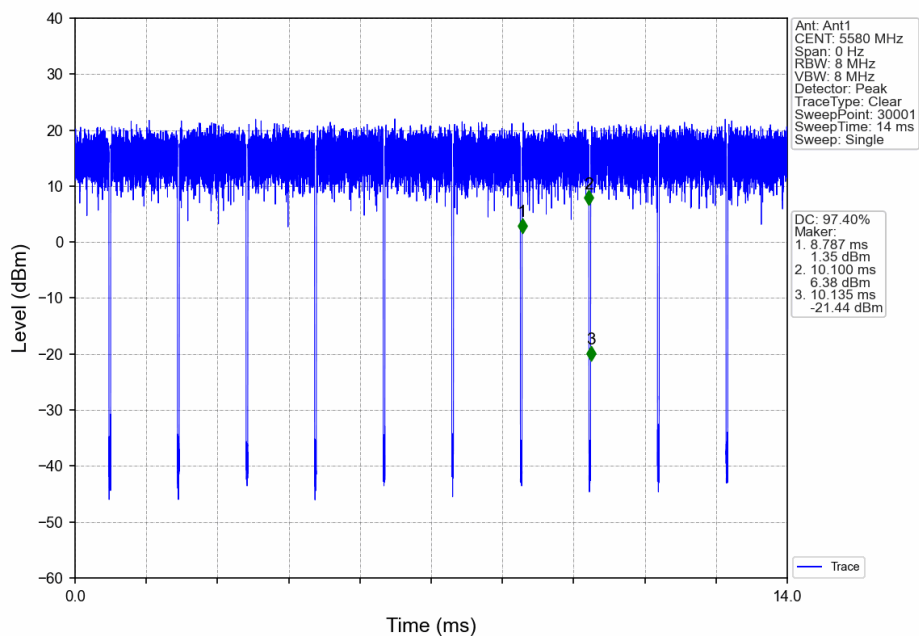
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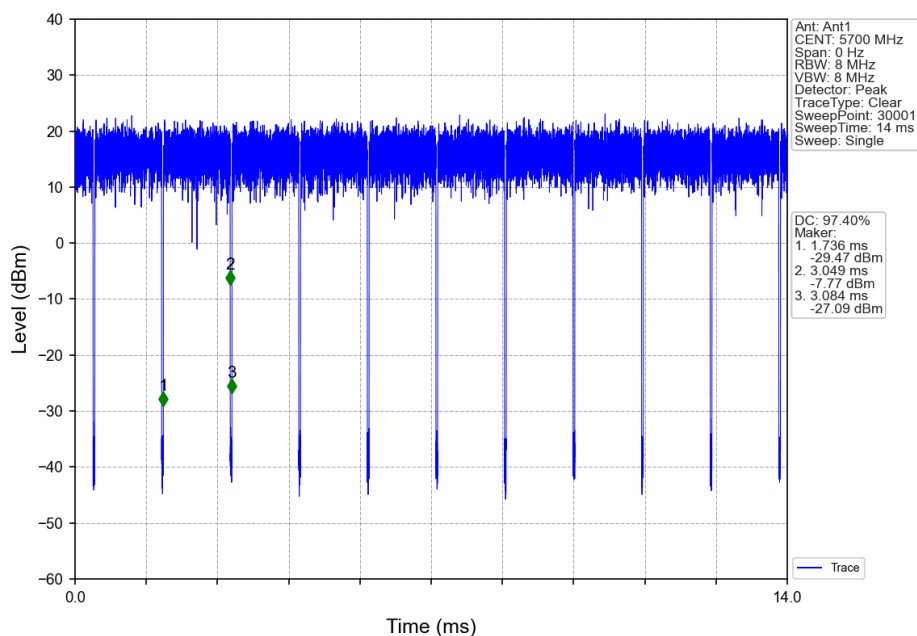
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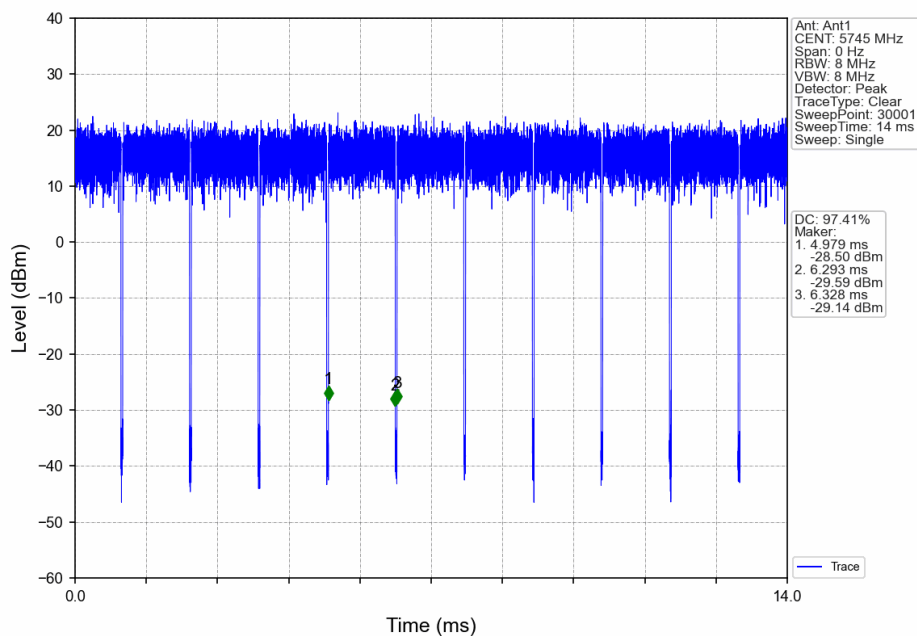
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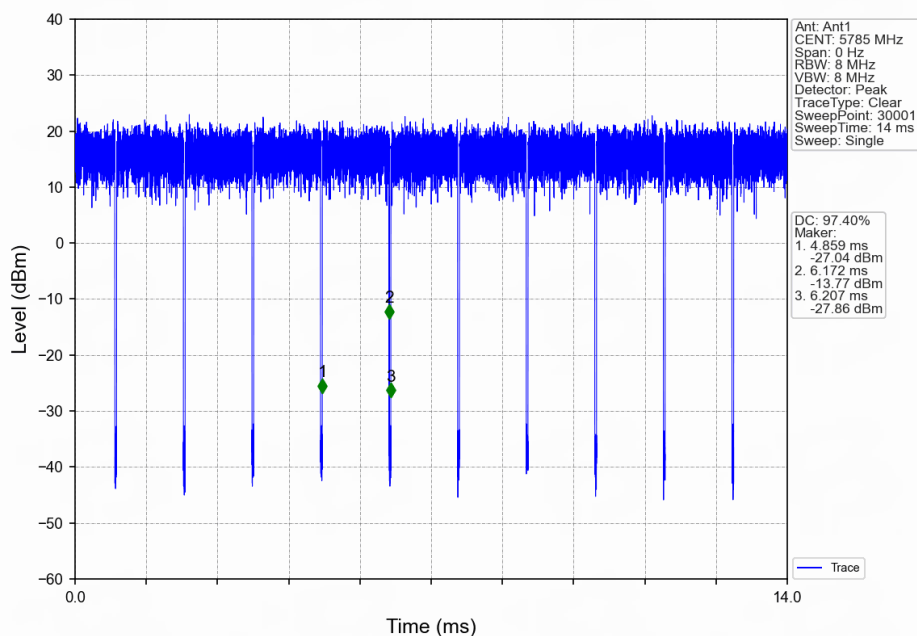
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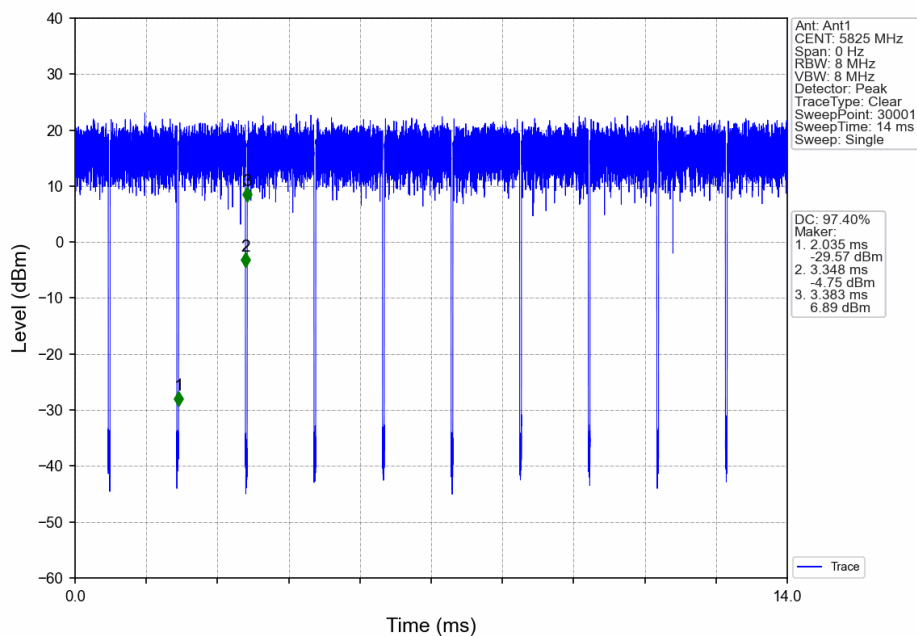
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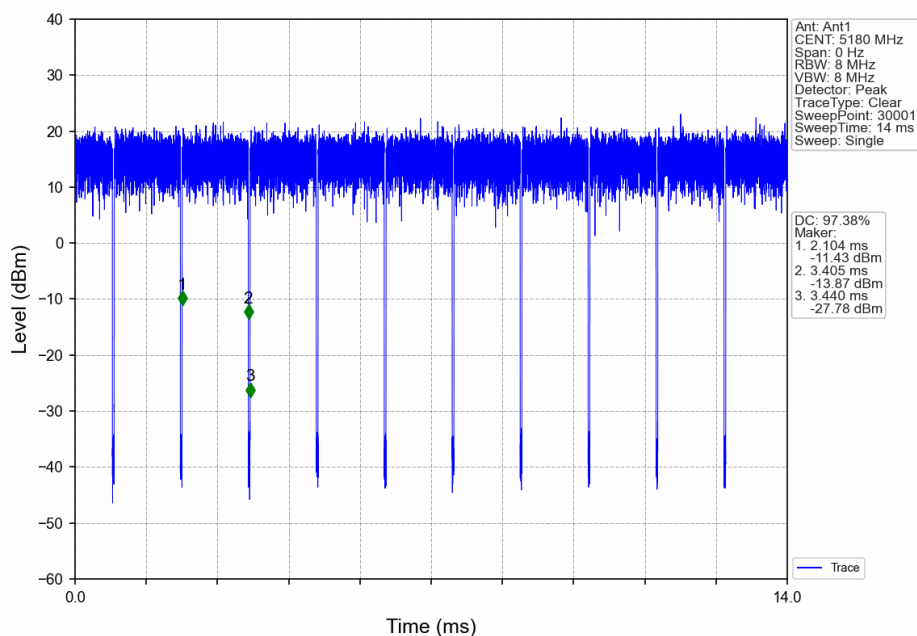
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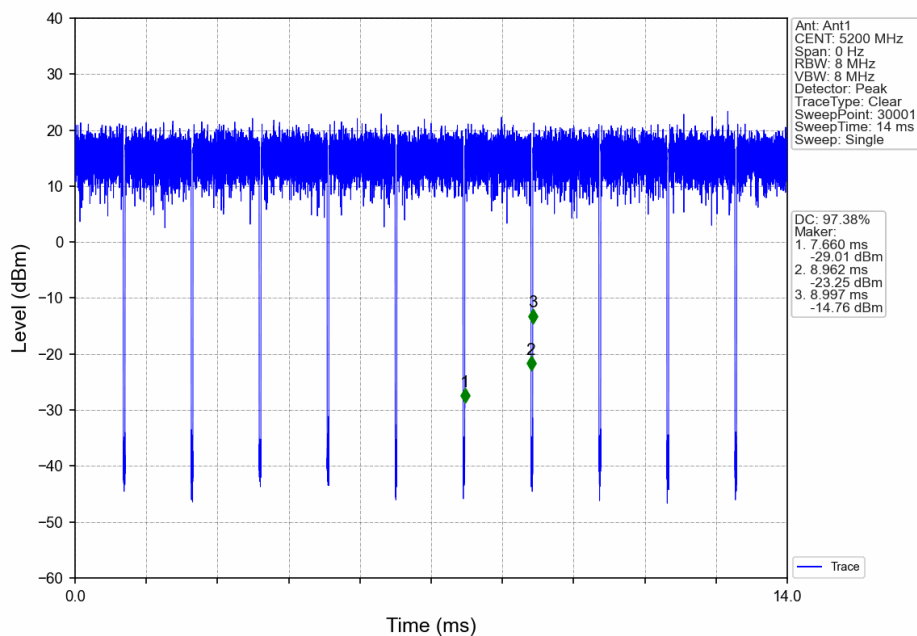
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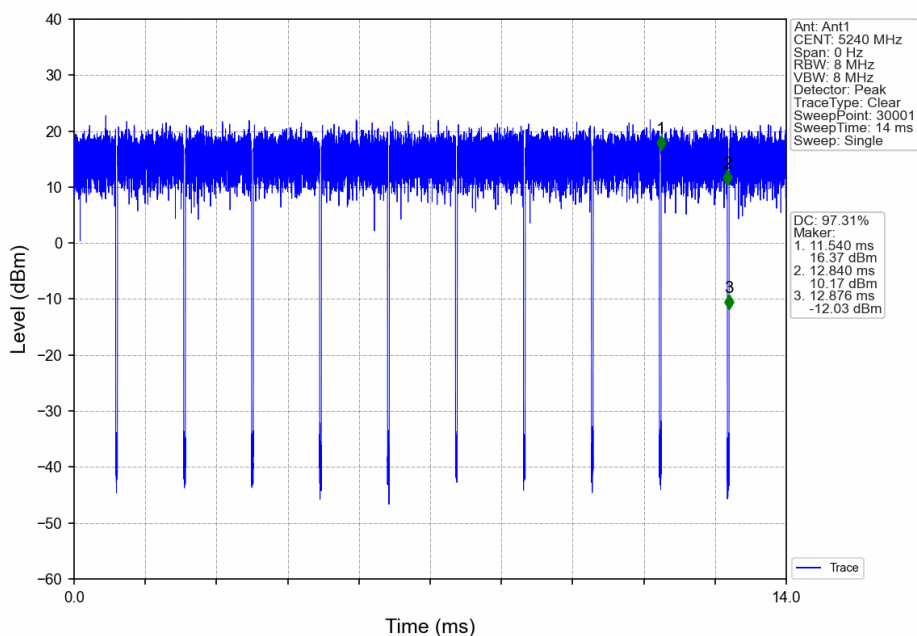
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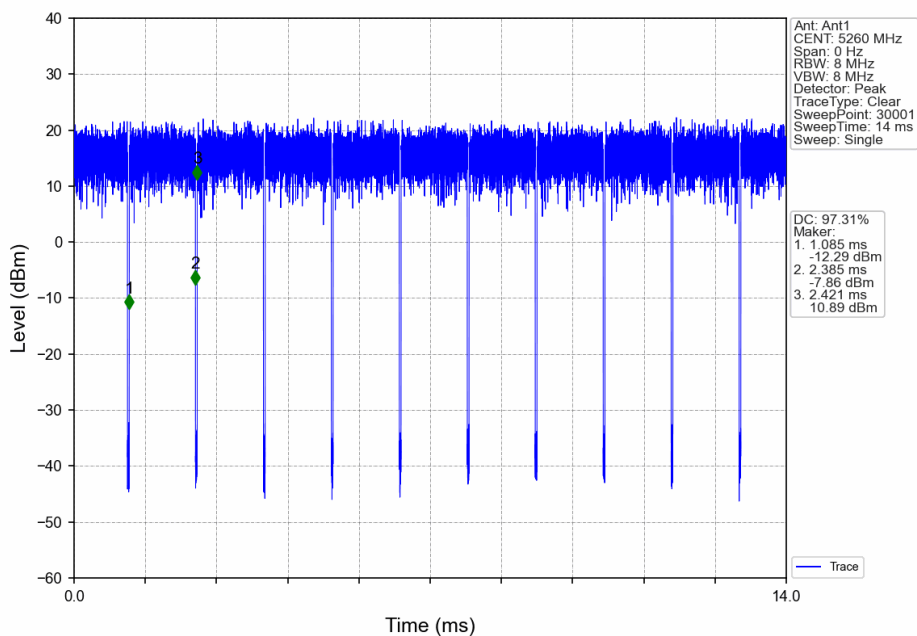
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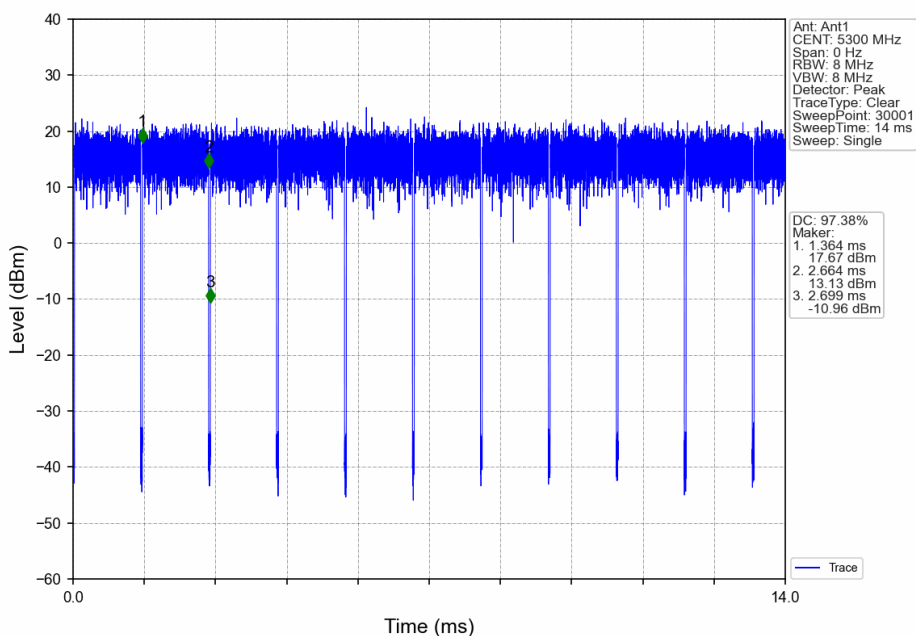
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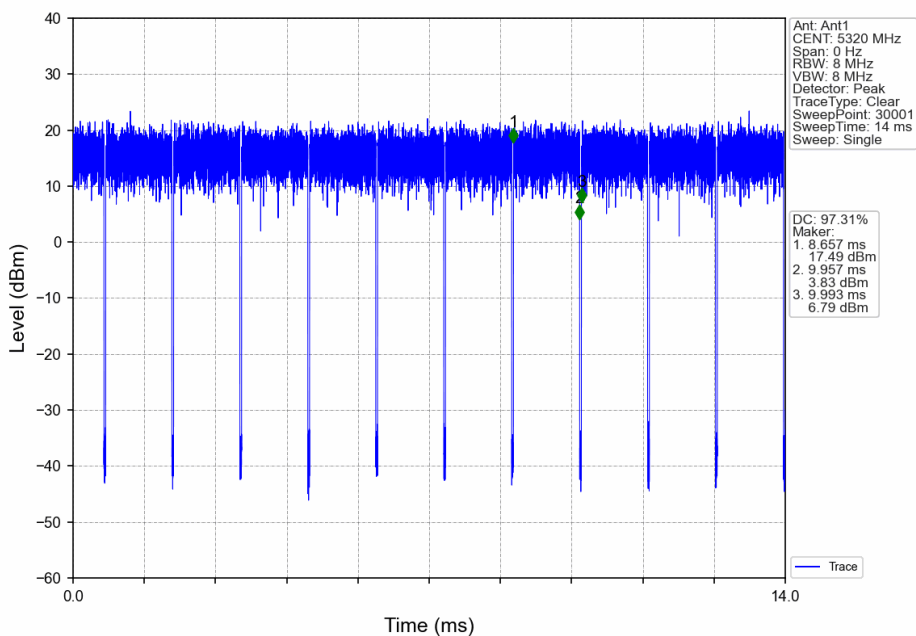
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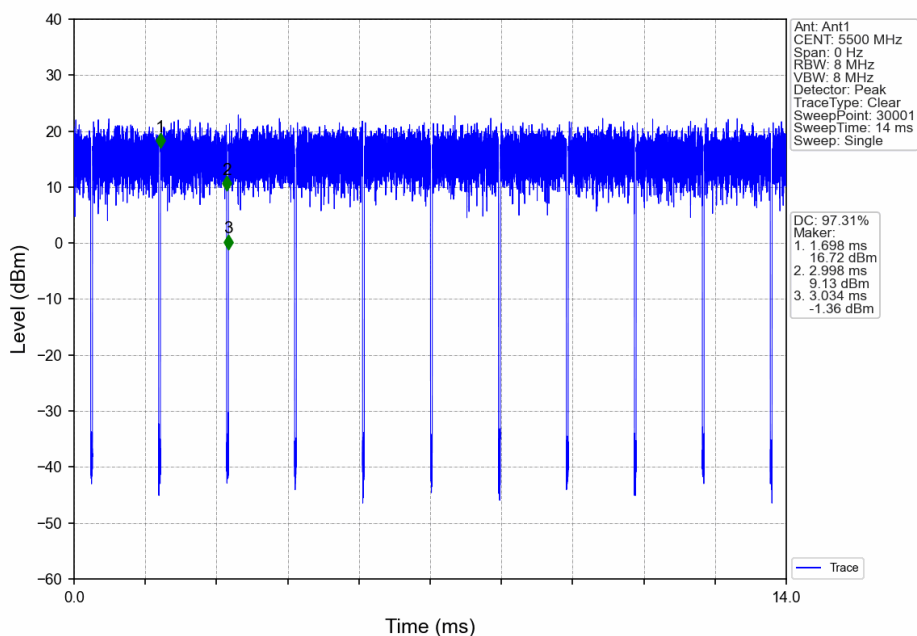
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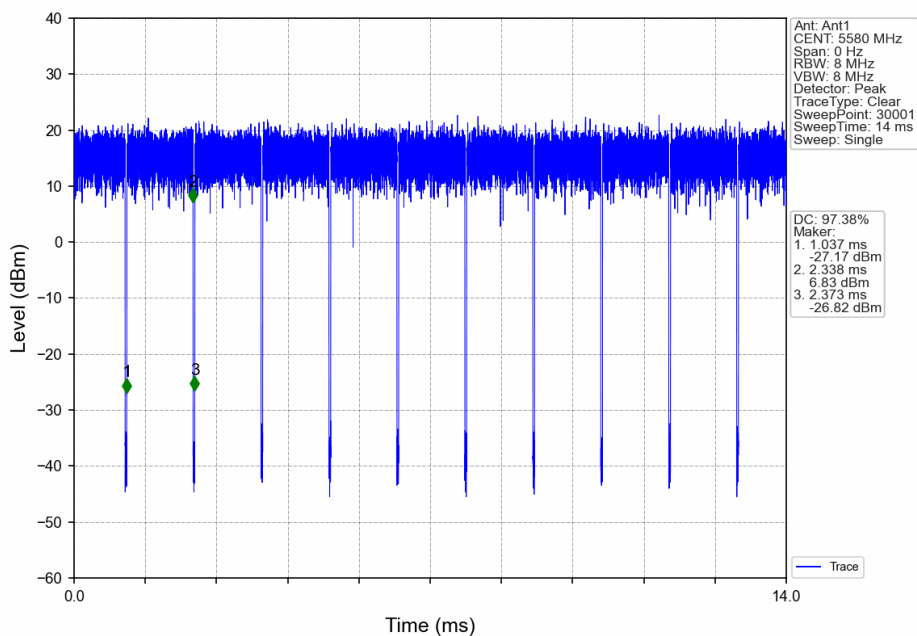
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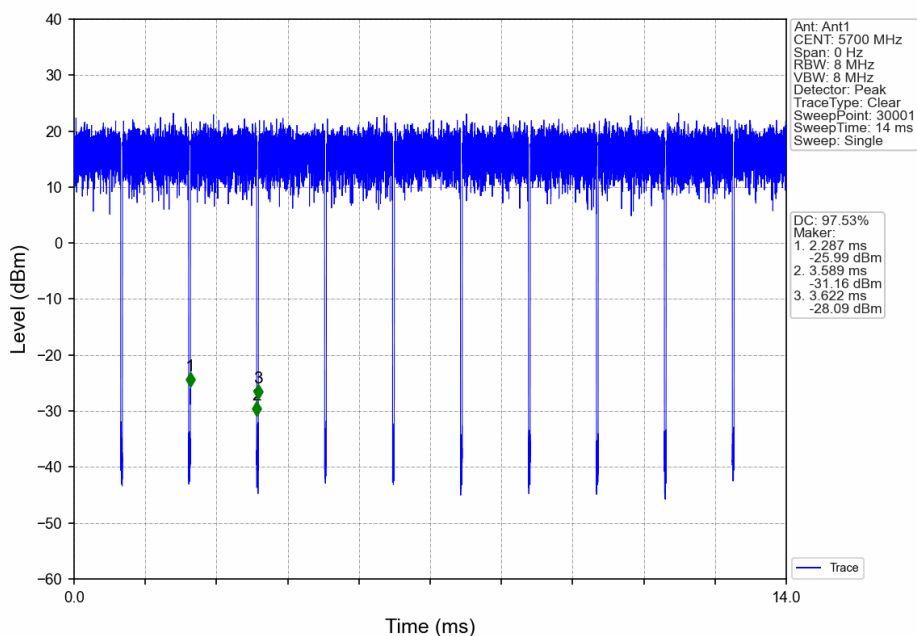
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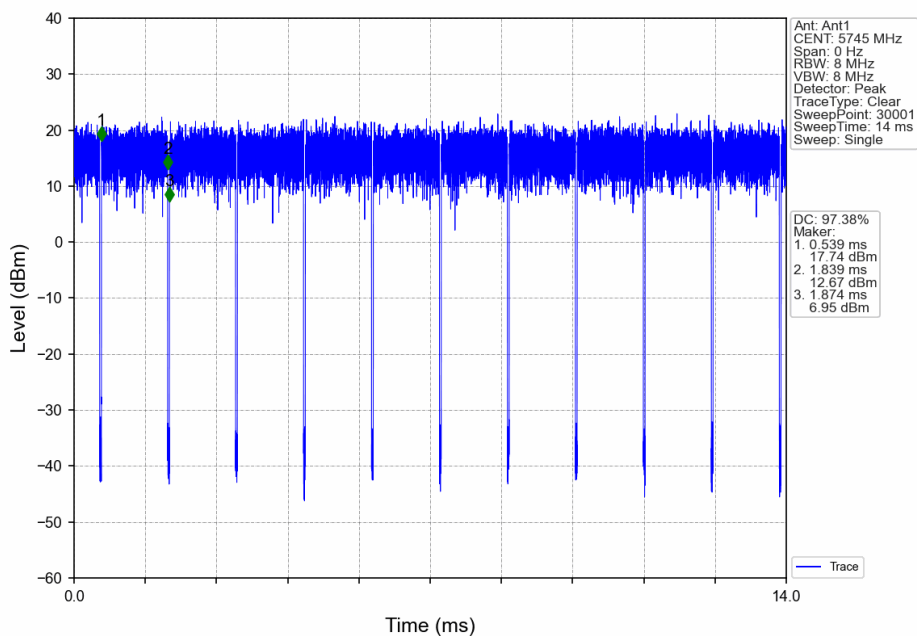
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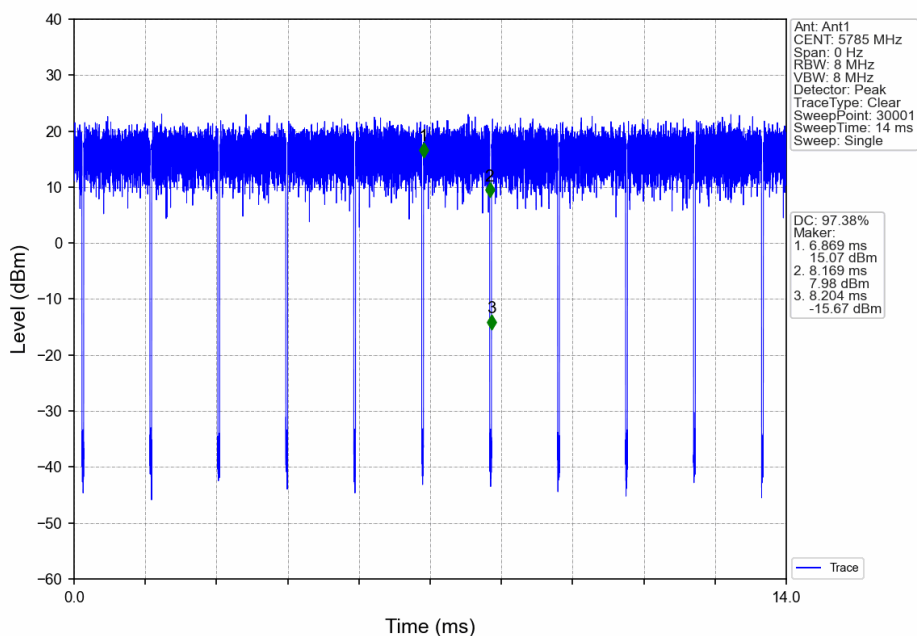
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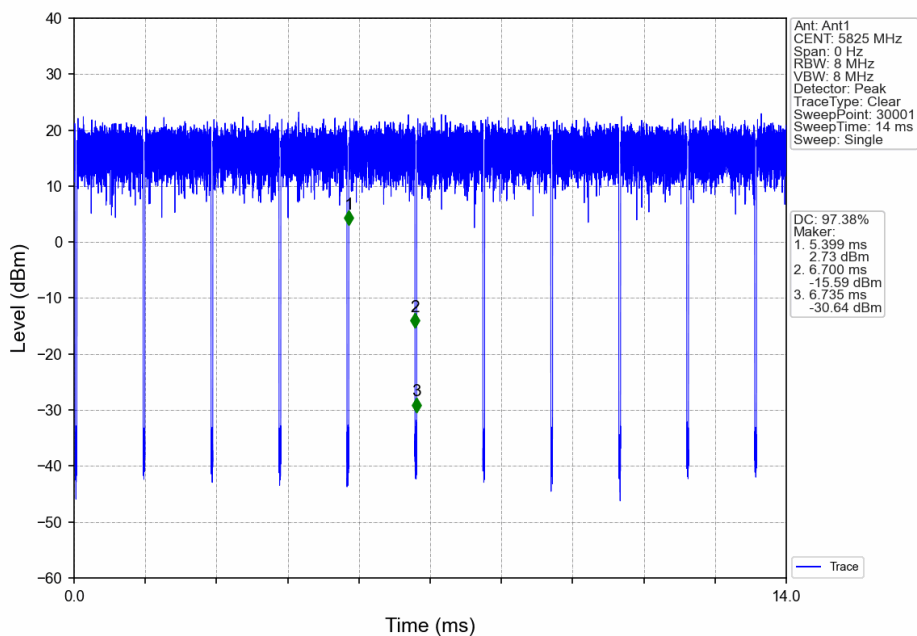
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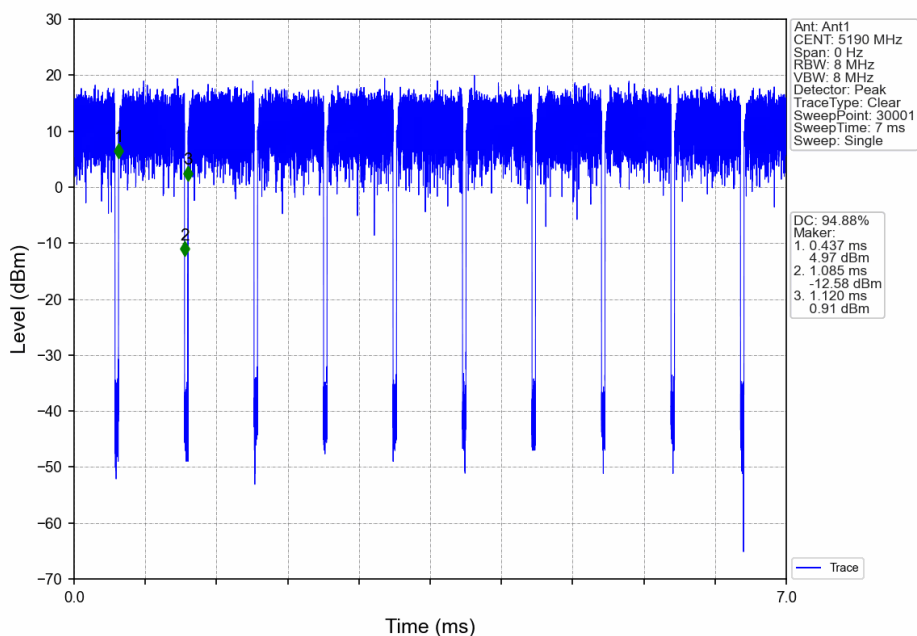
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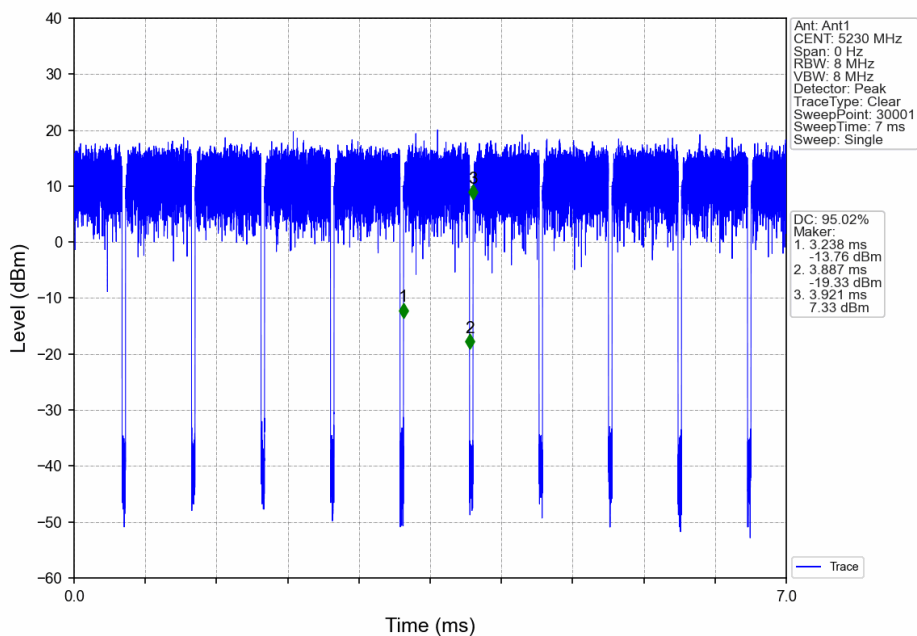
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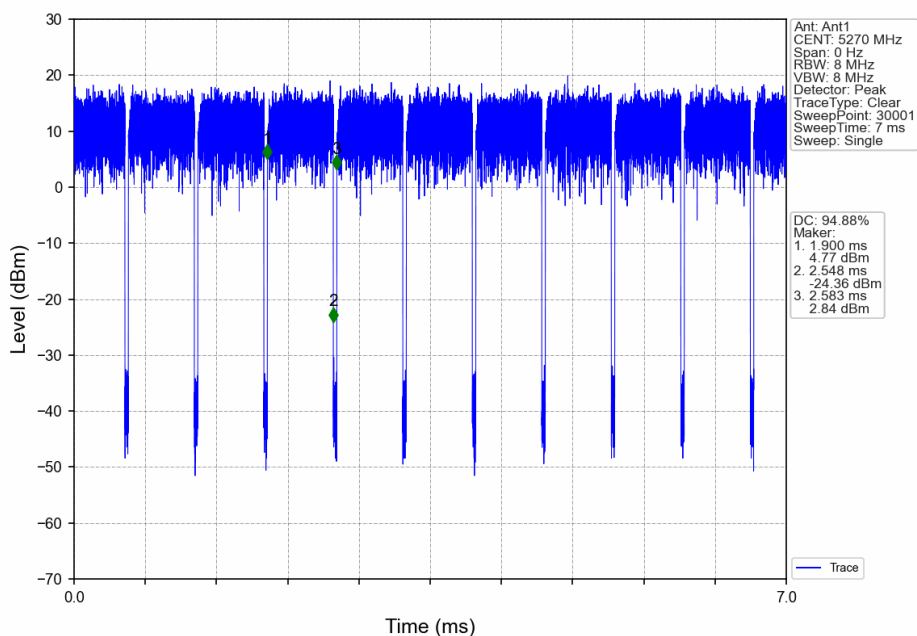
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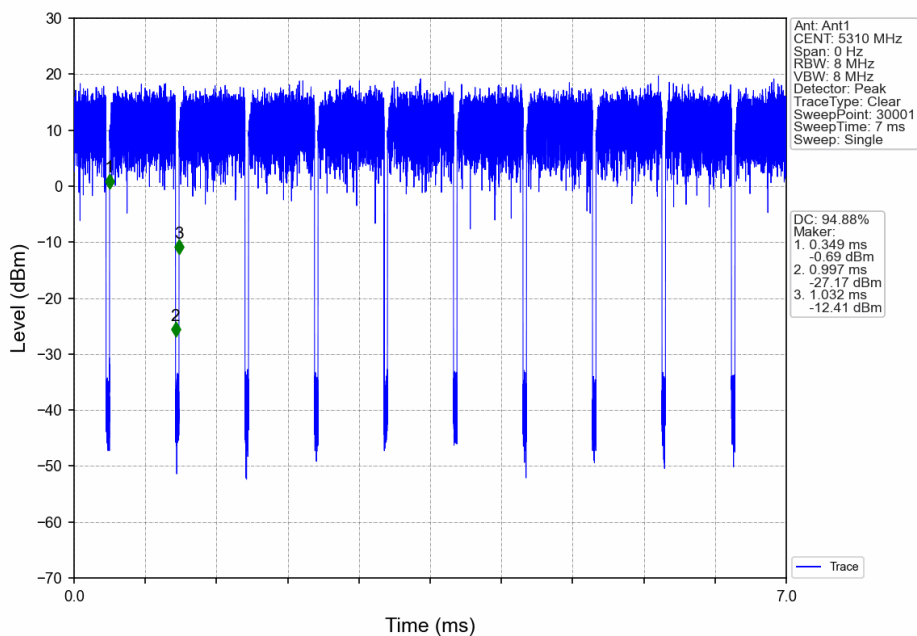
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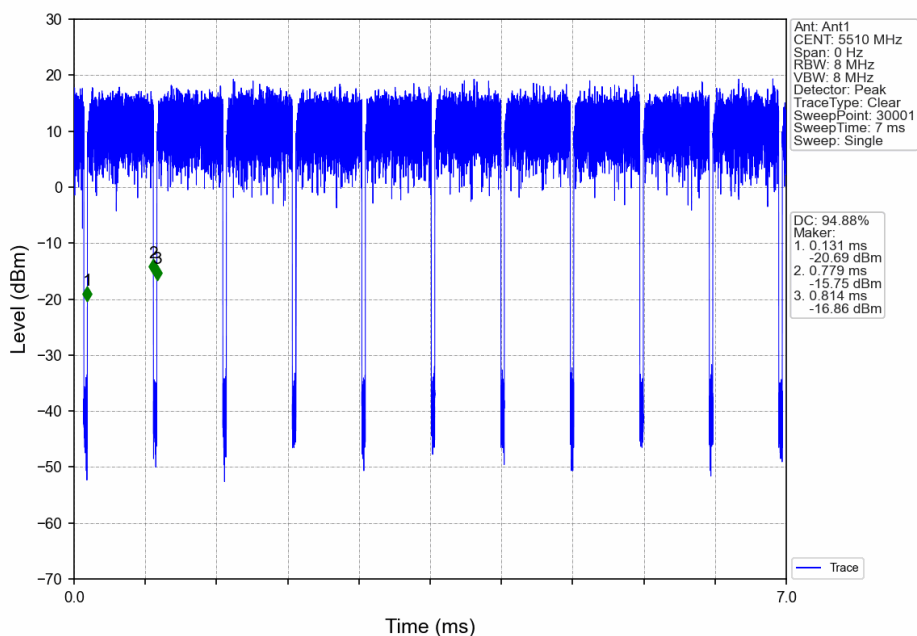
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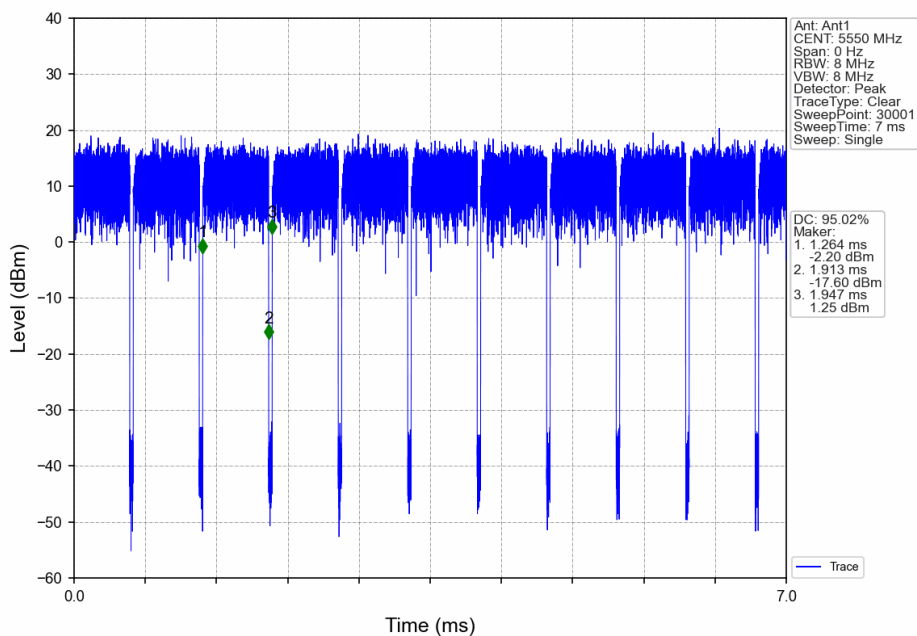
802.11n(HT40)_HCH_5310MHz_Ant1_NTNV



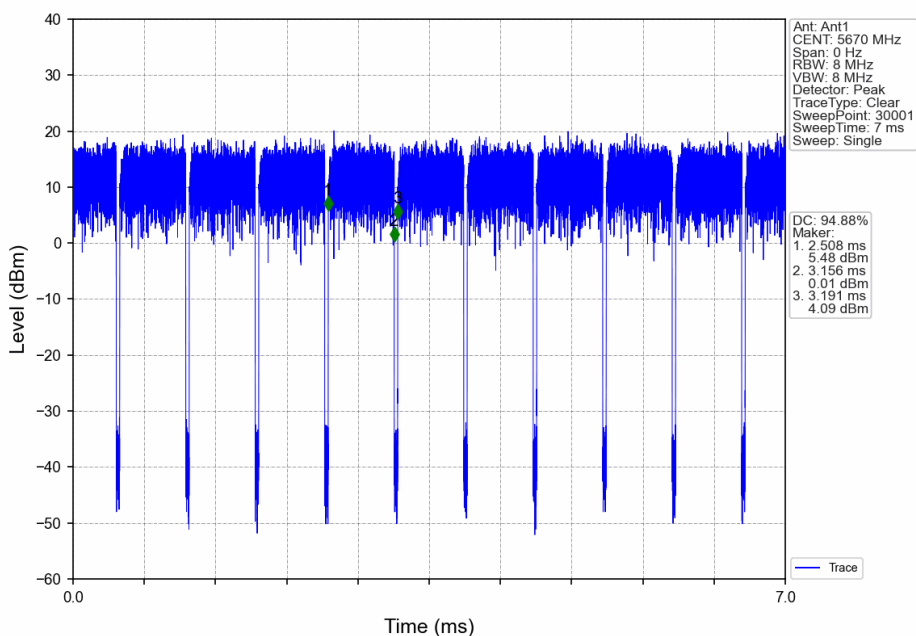
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



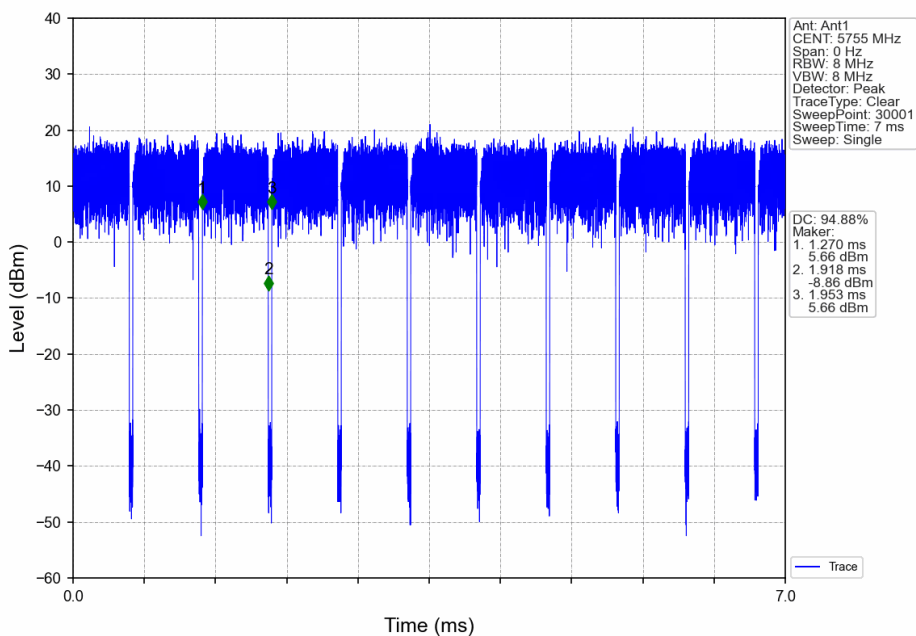
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



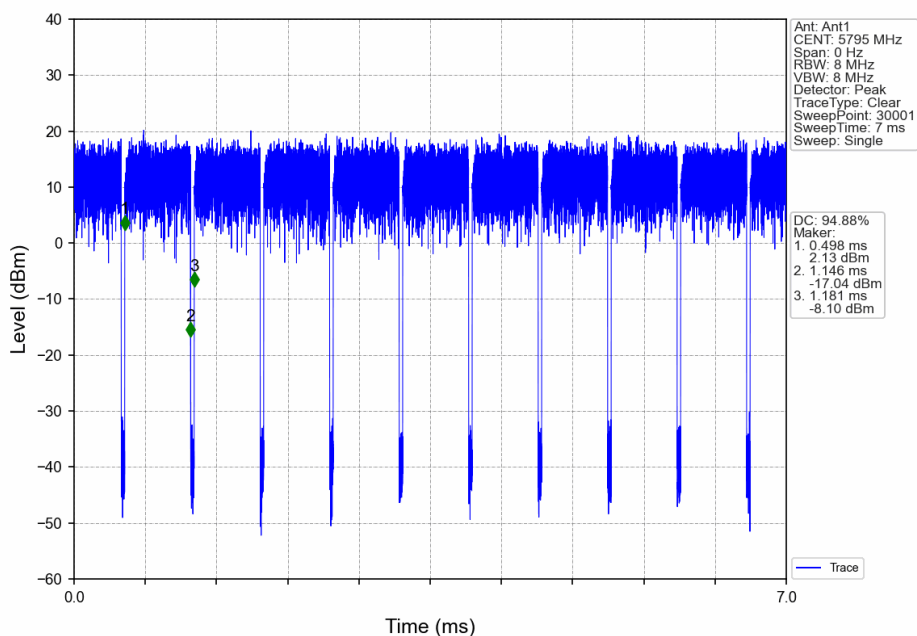
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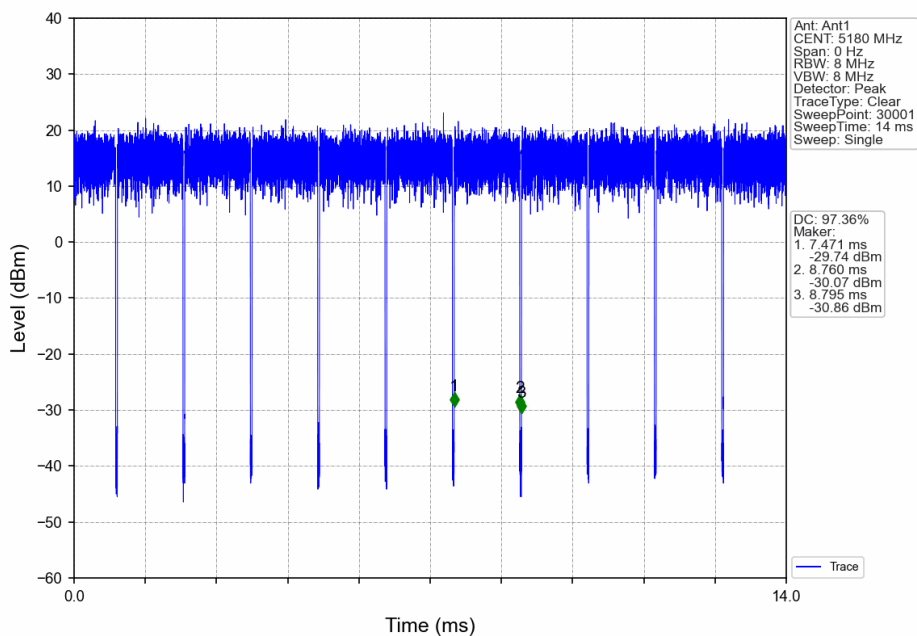
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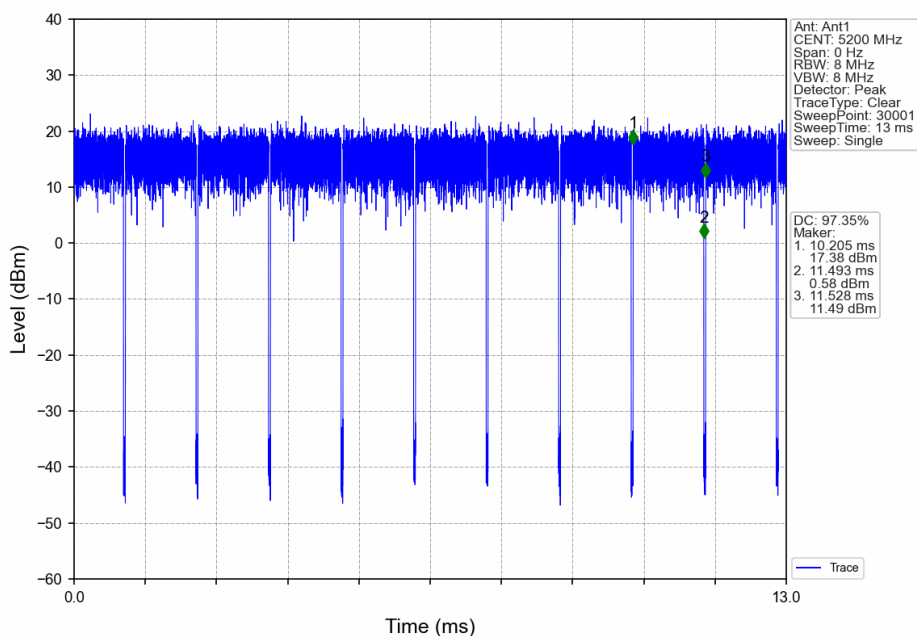
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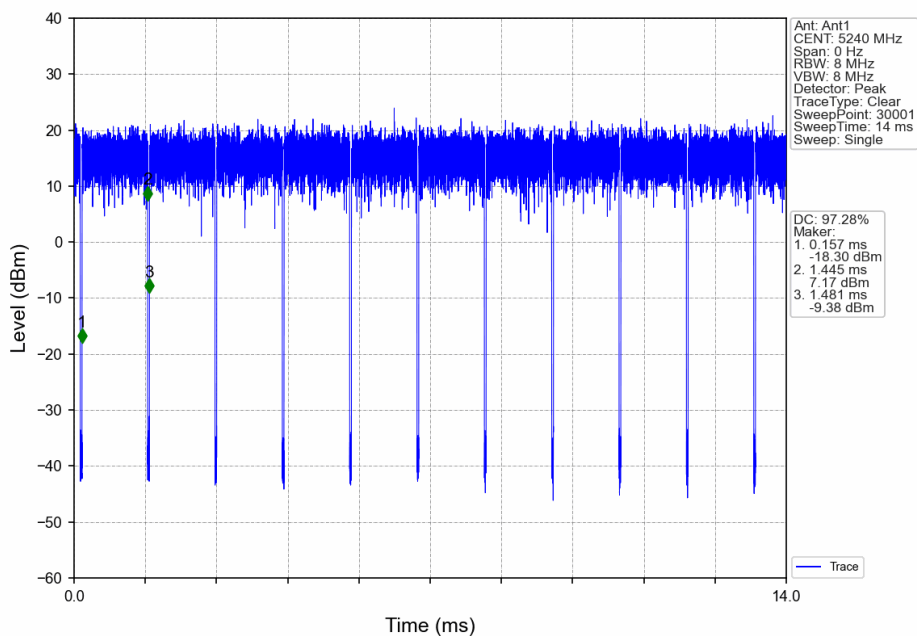
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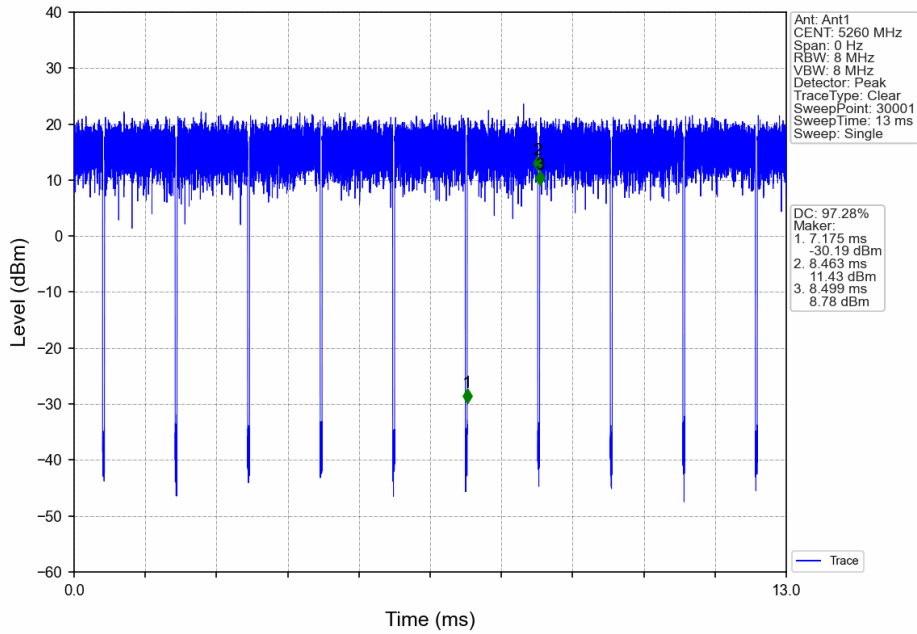
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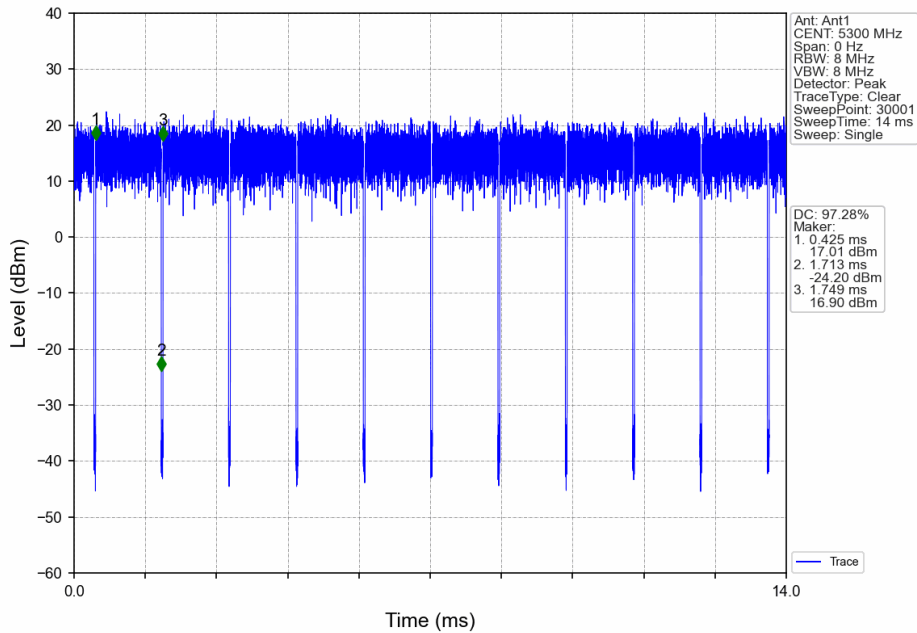
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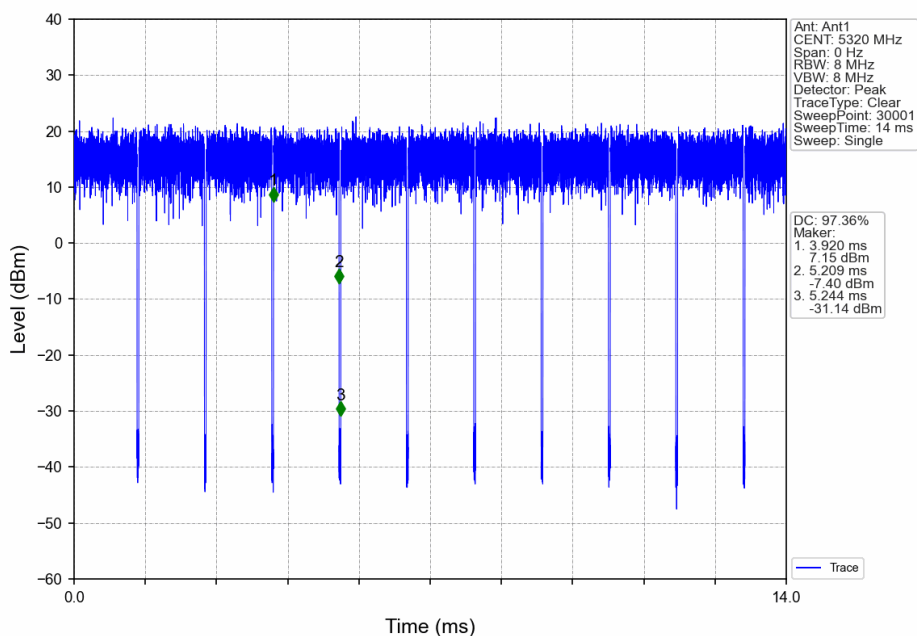
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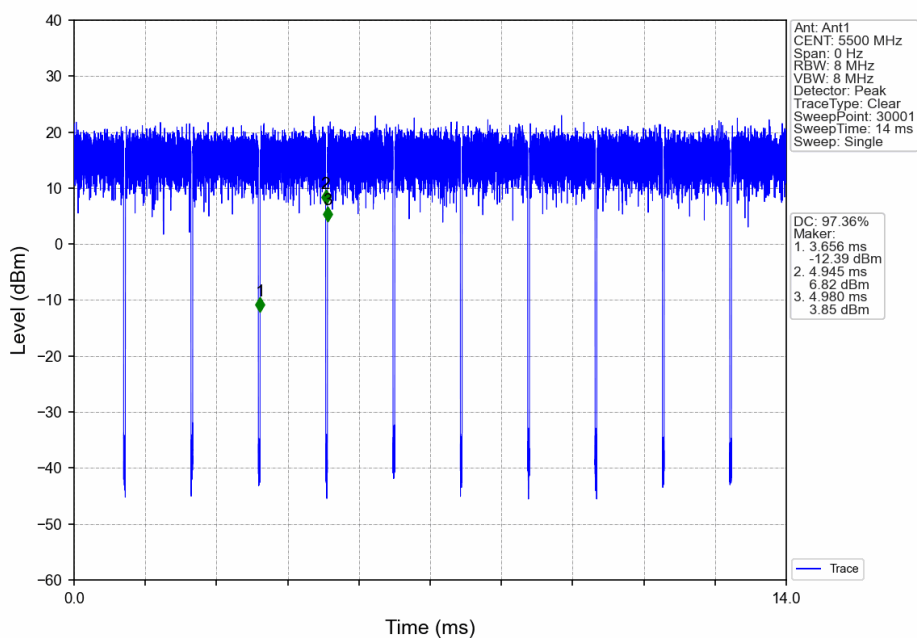
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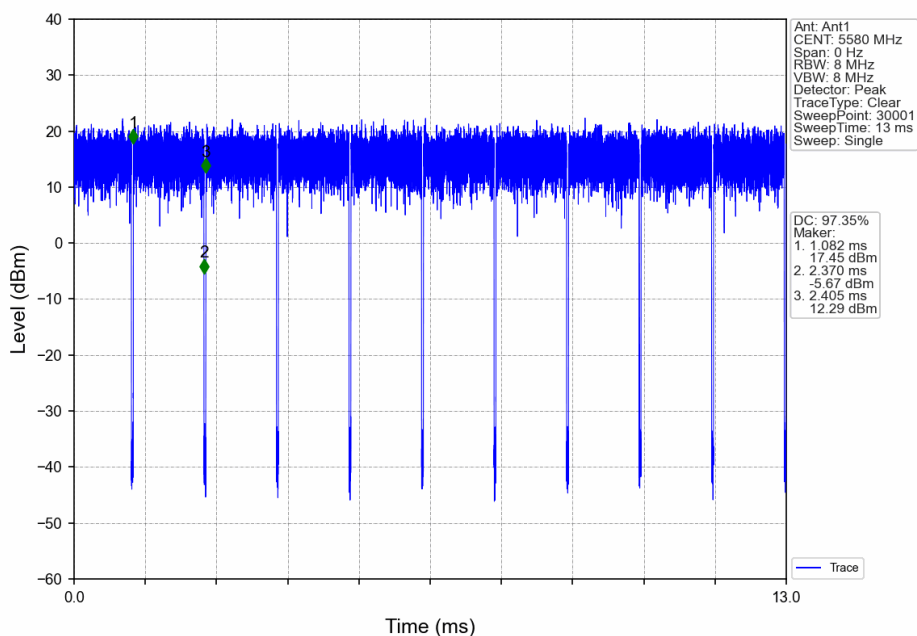
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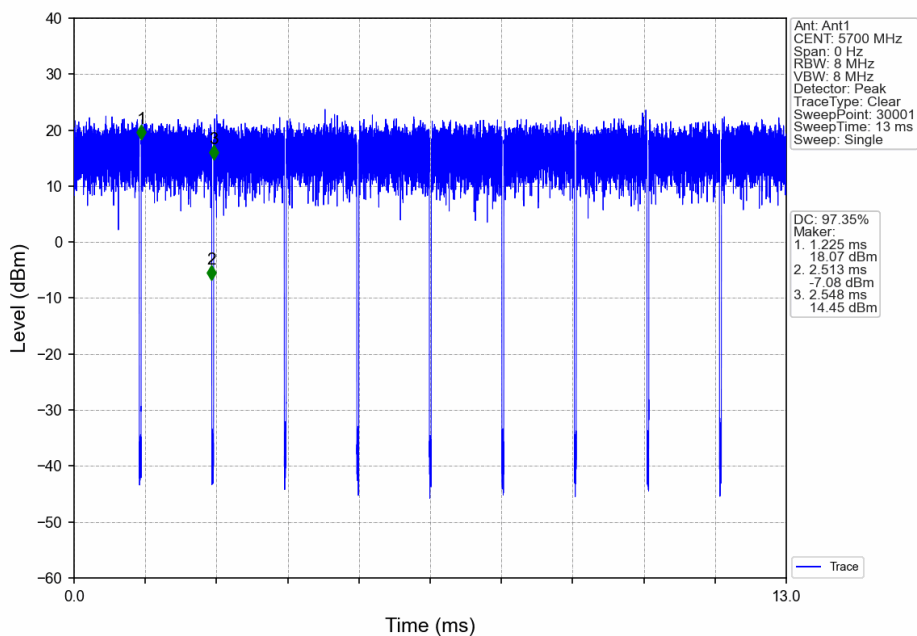
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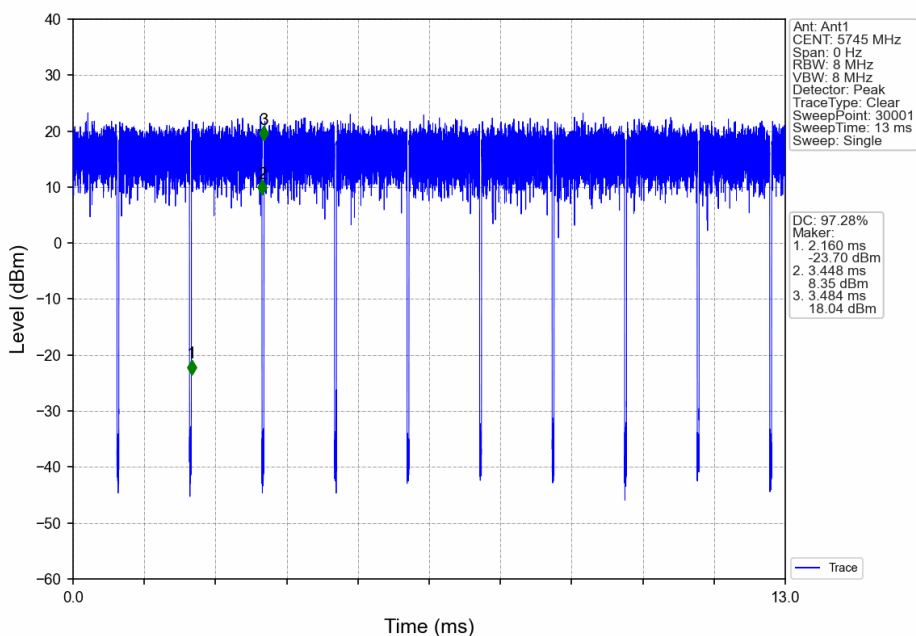
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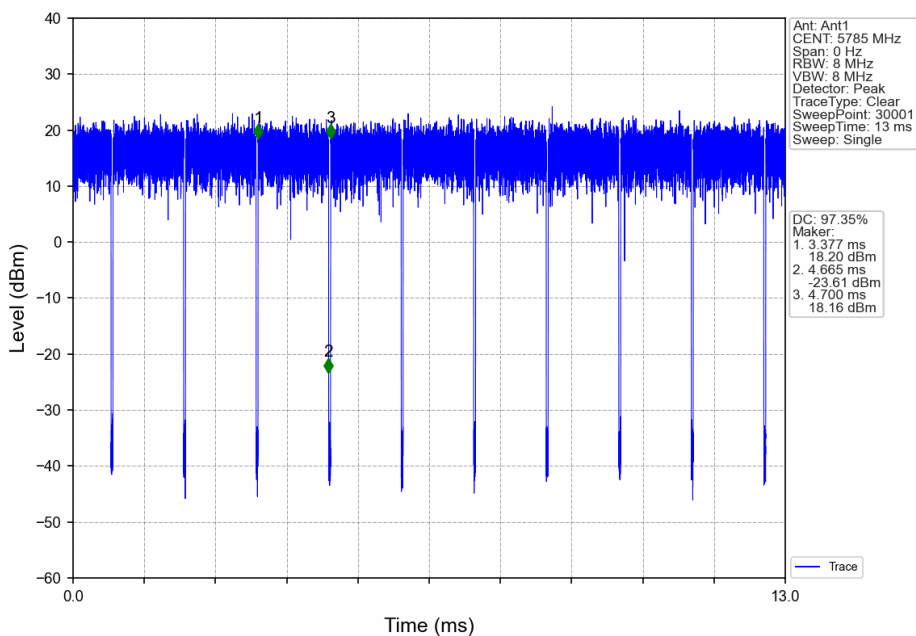
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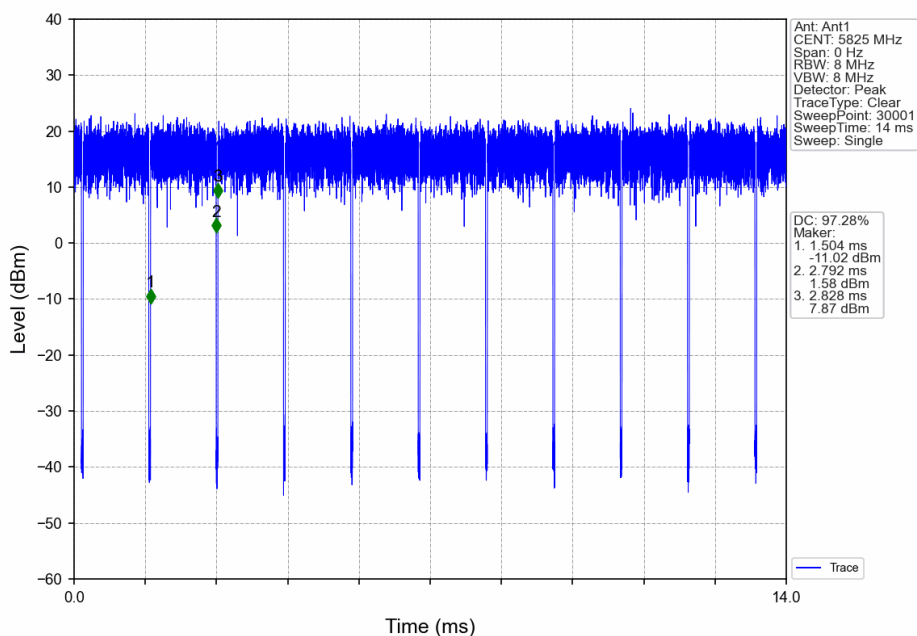
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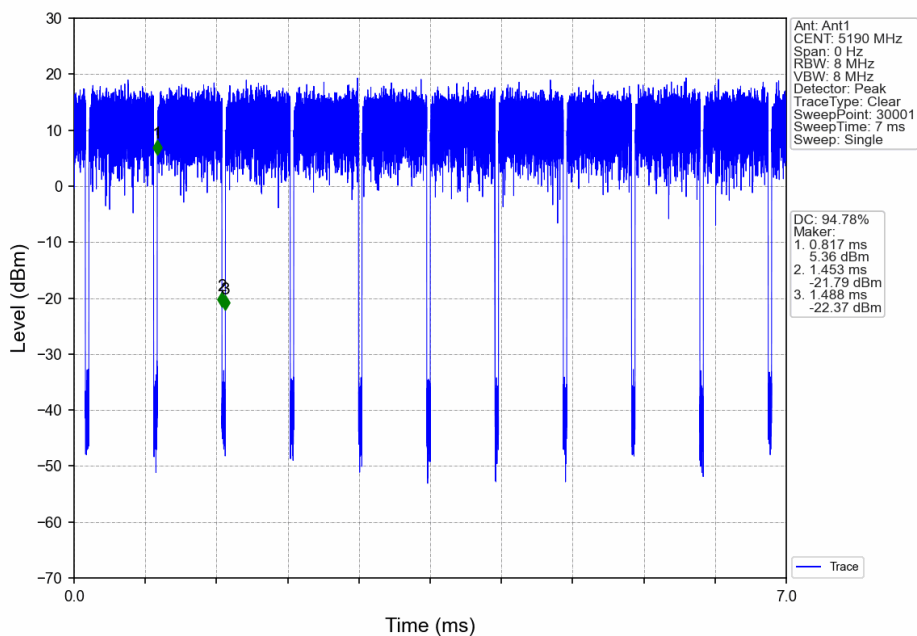
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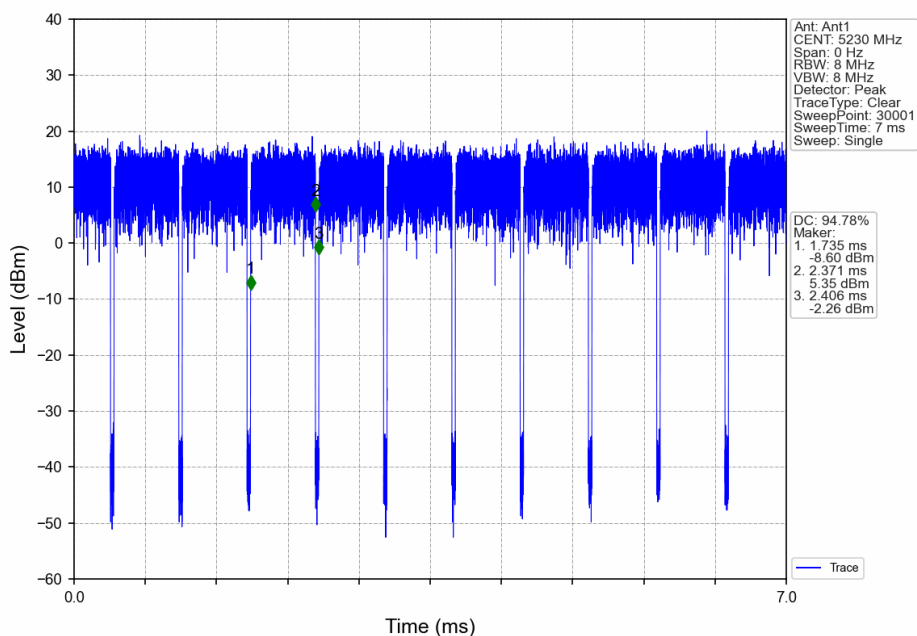
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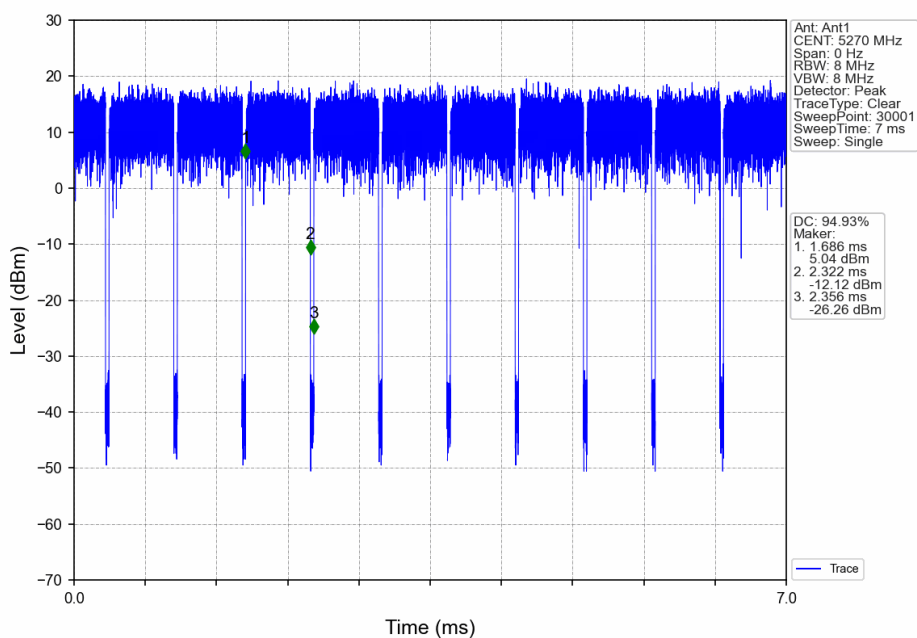
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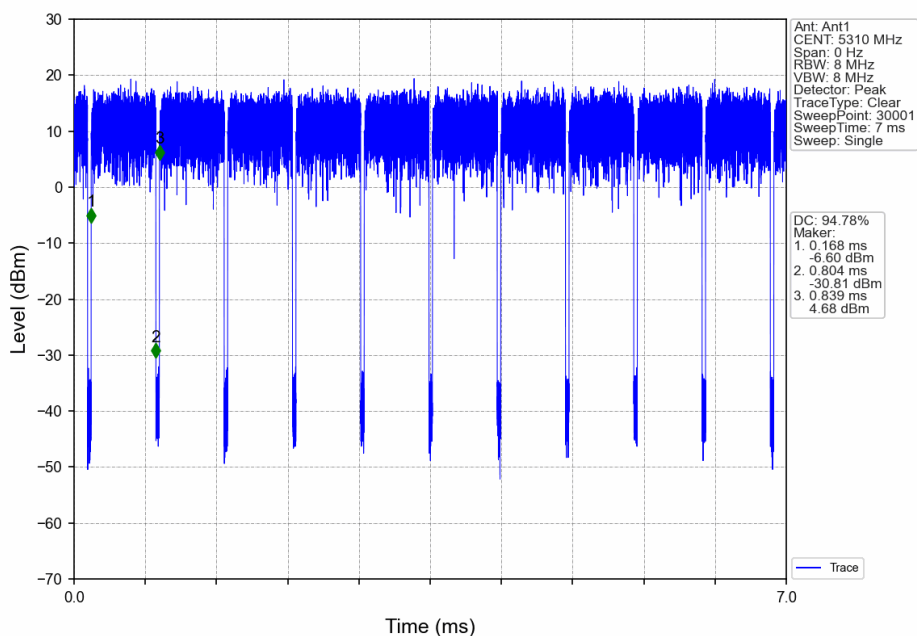
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



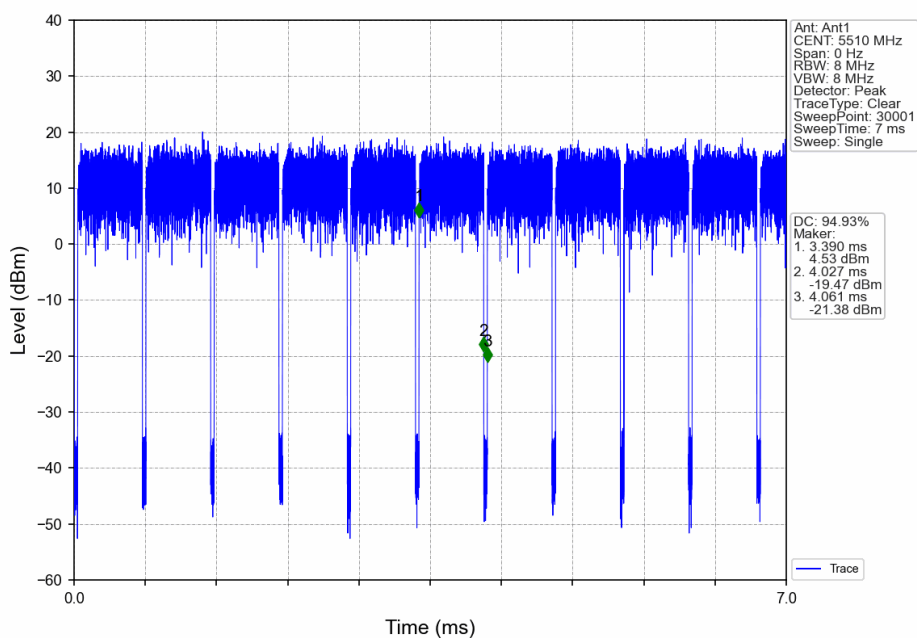
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



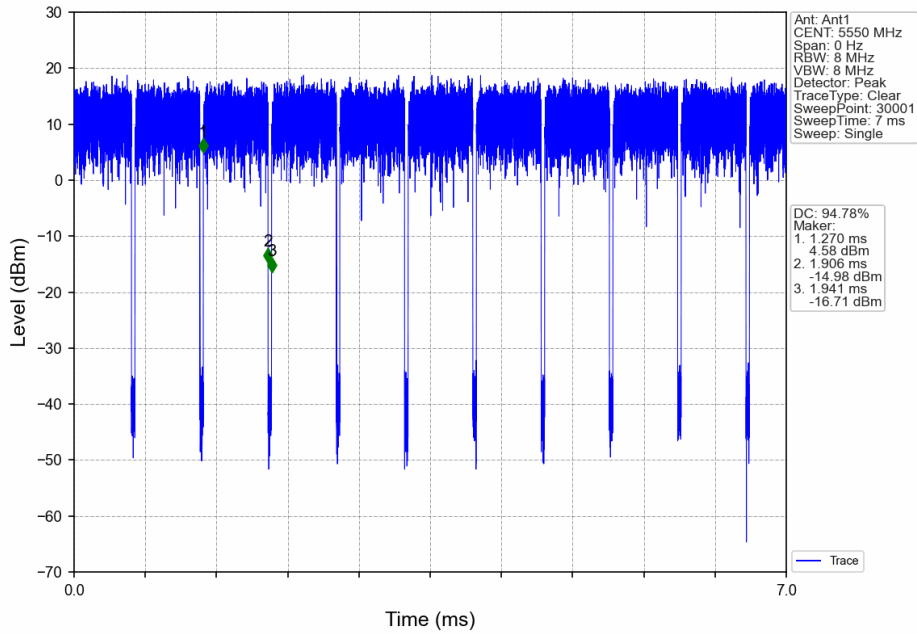
802.11ac(VHT40)_HCH_5310MHz_Ant1_NTNV



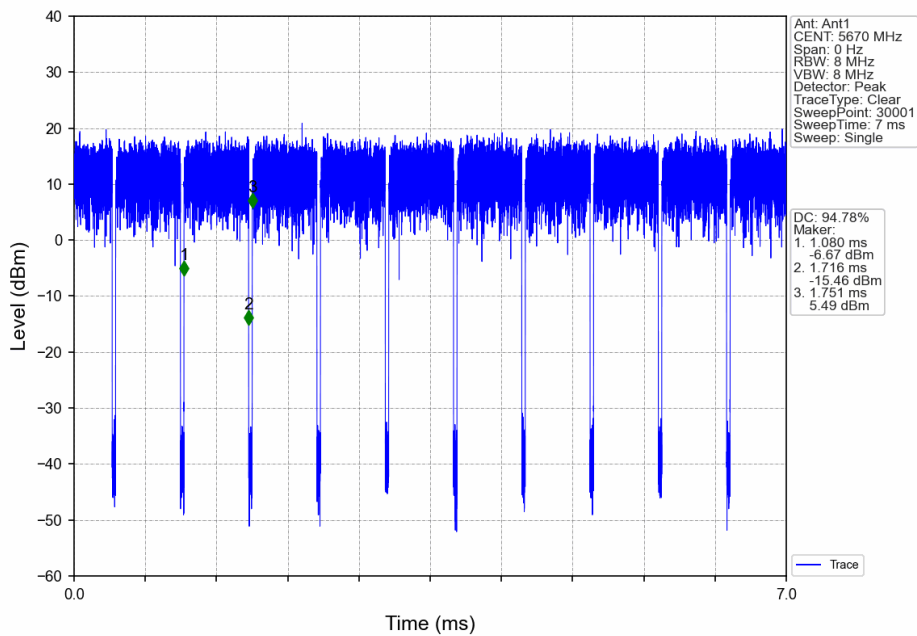
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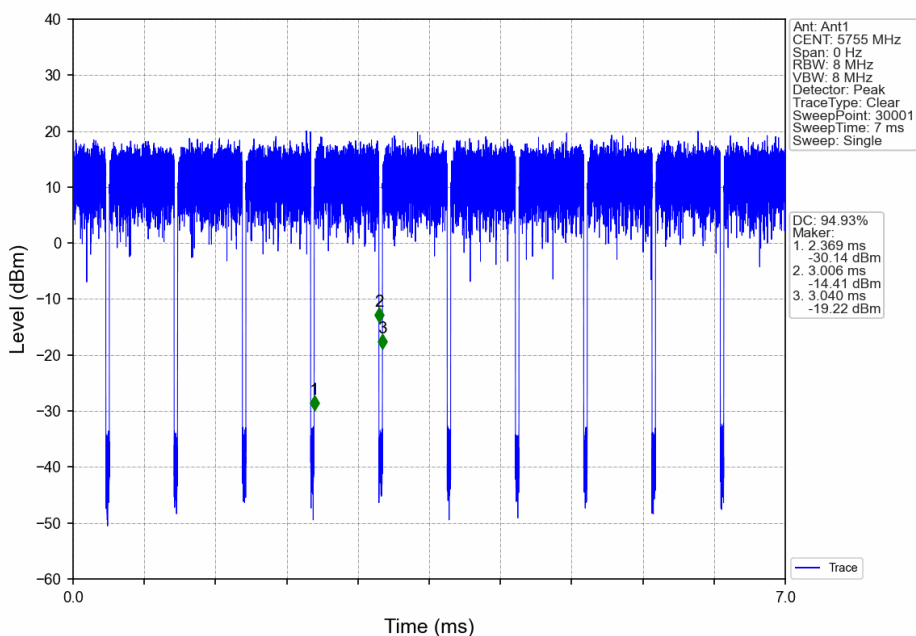
802.11ac(VHT40)_MCH_5550MHz_Ant1_NTNV



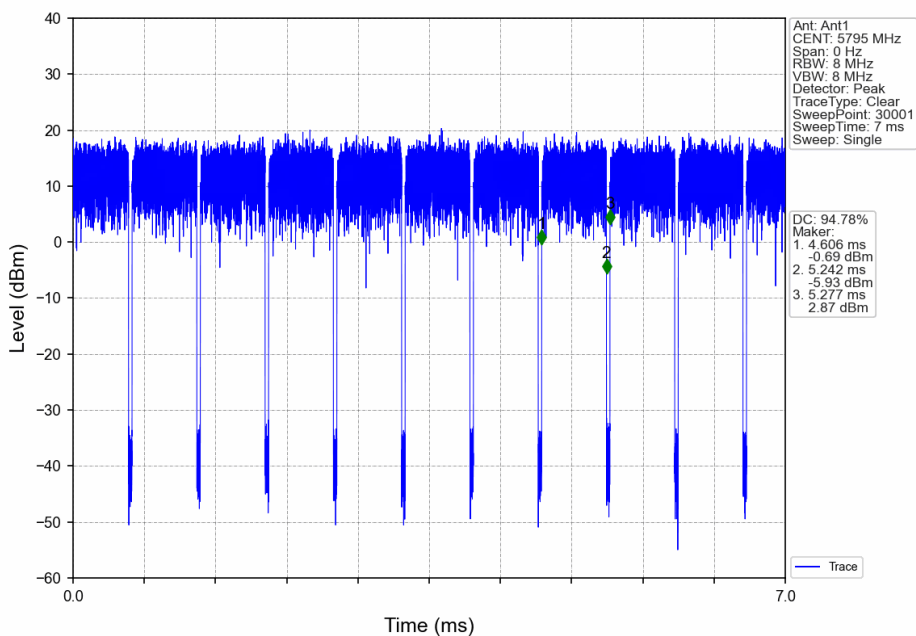
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



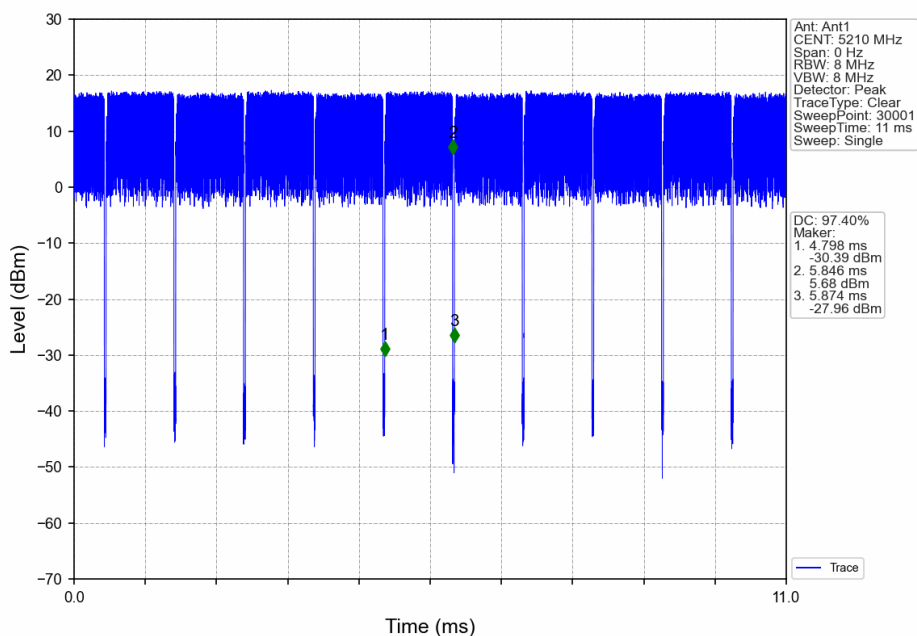
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV

