

TEST REPORT

Application No.: SZCR2507003293TL
Applicant: UAB Teltonika Networks
Address of Applicant: K. Barsausko st. 66, Kaunas, LT-51436, Lithuania
Manufacturer: TELTONIKA NETWORKS, UAB
Address of Manufacturer: K. Baršausko st. 66, LT-51436, Kaunas, Lithuania
Factory: TELTONIKA EMS, UAB
Address of Factory: Paluokesos st. 11, LT-33133, Molėtai, Lithuania
Equipment Under Test (EUT):
EUT Name: 5G Router
Model No.: RUTM20
Trade Mark: TELTONIKA
FCC ID: 2AET4RUTM20
Standard(s) : 47 CFR Part 15, Subpart E 15.407
Date of Receipt: 2025-07-25
Date of Test: 2025-07-31 to 2025-09-09
Date of Issue: 2025-09-09

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

Keny Xu

Keny Xu
EMC Laboratory Manager



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

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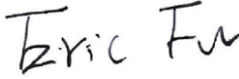
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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-09-09		Original

Authorized for issue by:				
				
		Charlie Dai/Project Engineer		
				
		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	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	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 (2013) Section 12.2	Pass
99% Bandwidth		ANSI C63.10 (2020) Section 12.5.3	ANSI C63.10 (2013) Section 12.4.2	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 (5.725-5.85 GHz band)		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
Peak Power spectrum 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:	Power by switching adapter Model No.: ASSA13A-120150 Input: AC 100-240V, 50/60Hz, 0.6A Output: DC 12V, 1.5A, 18W
Cable(s):	DC cable from Adapter 200cm unshielded; LAN cable 156cm unshielded; 4 pcs Mobile antenna 150cm shielded; 2 pcs WIFI antenna 150cm shielded;
Operation Frequency/Number of channels (20MHz):	5180-5240MHz (4 Channels); U-NII-2A: 5260-5320MHz (4 Channels); U-NII-2C: 5500-5700MHz (11 Channels); U-NII-3: 5745-5825MHz (5 Channels)
Operation Frequency/Number of channels/(40MHz):	5190-5230MHz (2 Channels); U-NII-2A: 5270-5310MHz (2 Channels); U-NII-2C: 5510-5670MHz (5 Channels); U-NII-3: 5755-5795MHz (2 Channels)
Operation Frequency/Number of channels (80MHz):	5210MHz (1 Channel); U-NII-2A: 5290MHz (1 Channels); U-NII-2C: 5530-5610MHz (2 Channels); U-NII-3: 5775MHz (1 Channel)
Modulation Type:	802.11a:OFDM (64QAM, 16QAM, QPSK, BPSK); 802.11n: OFDM (BPSK, QPSK, 16QAM, 64QAM); 802.11ac: OFDM (BPSK, QPSK, 16QAM, 64QAM, 256QAM)
Channel Spacing:	802.11a/n/ac 20: 20MHz; 802.11n/ac 40: 40MHz; 802.11ac 80: 80MHz
DFS Function:	Master
Antenna Type:	RP-SMA Connector
Antenna Gain:	ANT1 & ANT2: 3.59dBi
Cable Loss (for RF conducted test):	1.2dB

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.
--	--	--	--
The EUT has been tested as an independent unit.			



4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.1\text{dB}$
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	$\pm 0.37\%$
99% Bandwidth	$\pm 3\%$
26dB Emission bandwidth	$\pm 3\%$
Minimum 6 dB bandwidth (5.725-5.85 GHz band)	$\pm 3\%$
Maximum Conducted output power	$\pm 0.75\text{dB}$
Peak Power spectrum density	$\pm 2.84\text{dB}$
Frequency Stability	$\pm 7.25 \times 10^{-8}$

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	2025-01-08	2026-01-07
Matching Pad	N/A	N/A	SEM021-23	2025-03-19	2026-03-18
Matching Pad	N/A	N/A	SEM021-24	2025-03-19	2026-03-18
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	2025-03-03	2026-03-02

Radiated Spurious Emissions Below 30MHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2025-03-21	2026-03-20
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2025-07-25	2026-07-24
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2025-03-04	2026-03-03
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2025-07-05	2026-07-04

Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
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	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
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	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
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	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20

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	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2024-09-14	2025-09-13
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

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	2025-03-04	2026-03-03
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2024-09-14	2025-09-13
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	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25



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Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03
Manual Step Attenuator	KEYSIGHT	8494B	SEM021-05	2025-03-03	2026-03-02
Manual Step Attenuator	KEYSIGHT	8496B	SEM021-06	2025-03-03	2026-03-02
MXG Vector Signal Generator	Agilent	N5182A	SEM006-21	2025-03-03	2026-03-02
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-22	2025-03-04	2026-03-03

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	2025-03-03	2026-03-02



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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 a dipole antenna with RP-SMA connector. The best case gain of the antenna are ANT1 & ANT2: 3.59dBi.

Antenna location: Refer to external & internal photos



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.



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

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: 22.5 °C

Humidity: 44.5 % RH

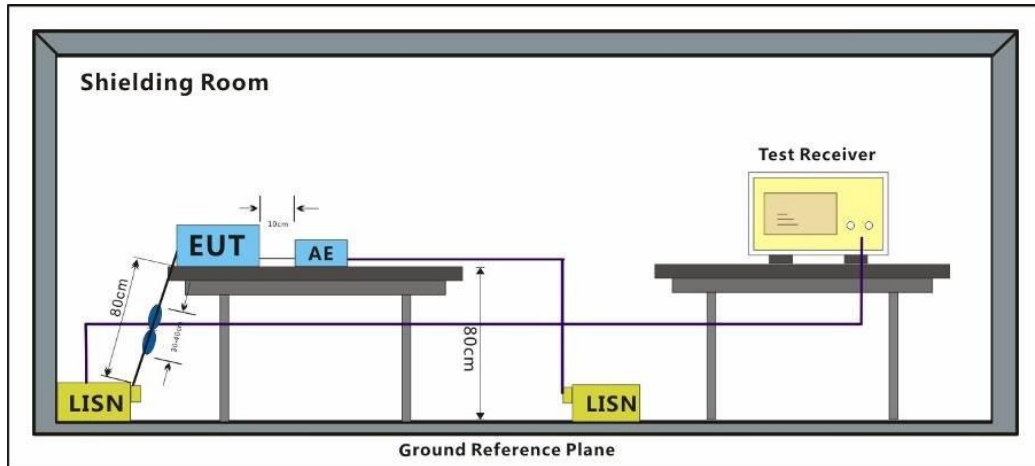
Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) _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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	02	TX mode (U-NII-2A) _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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	03	TX mode (U-NII-2C) _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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	04	TX mode (U-NII-3) _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 20/40/80, Only the data of worst case is recorded in the report.



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.

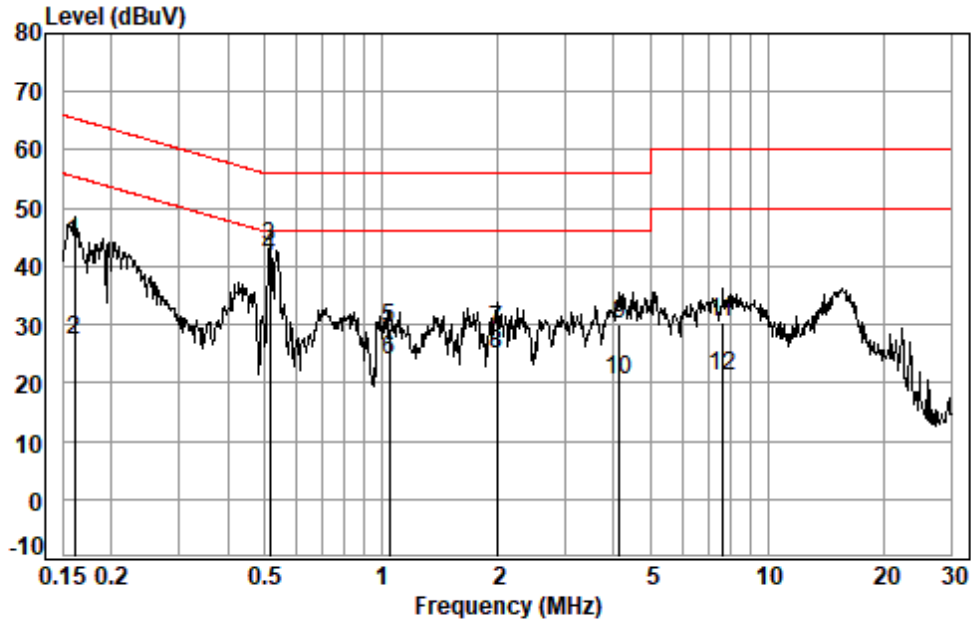
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Test Mode: 01; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 03293TL/03294TL
Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1607	0.05	10.18	33.79	44.02	65.43	-21.41	QP
2	0.1607	0.05	10.18	17.05	27.28	55.43	-28.15	Average
3 *	0.5155	0.08	9.55	33.72	43.35	56.00	-12.65	QP
4 *	0.5155	0.08	9.55	32.12	41.75	46.00	-4.25	Average
5	1.0485	0.10	9.58	19.75	29.43	56.00	-26.57	QP
6	1.0485	0.10	9.58	14.25	23.93	46.00	-22.07	Average
7	1.9906	0.11	9.58	19.46	29.15	56.00	-26.85	QP
8	1.9906	0.11	9.58	15.14	24.83	46.00	-21.17	Average
9	4.1356	0.13	9.66	20.24	30.03	56.00	-25.97	QP
10	4.1356	0.13	9.66	10.62	20.41	46.00	-25.59	Average
11	7.6464	0.17	9.68	20.47	30.32	60.00	-29.68	QP
12	7.6464	0.17	9.68	11.23	21.08	50.00	-28.92	Average



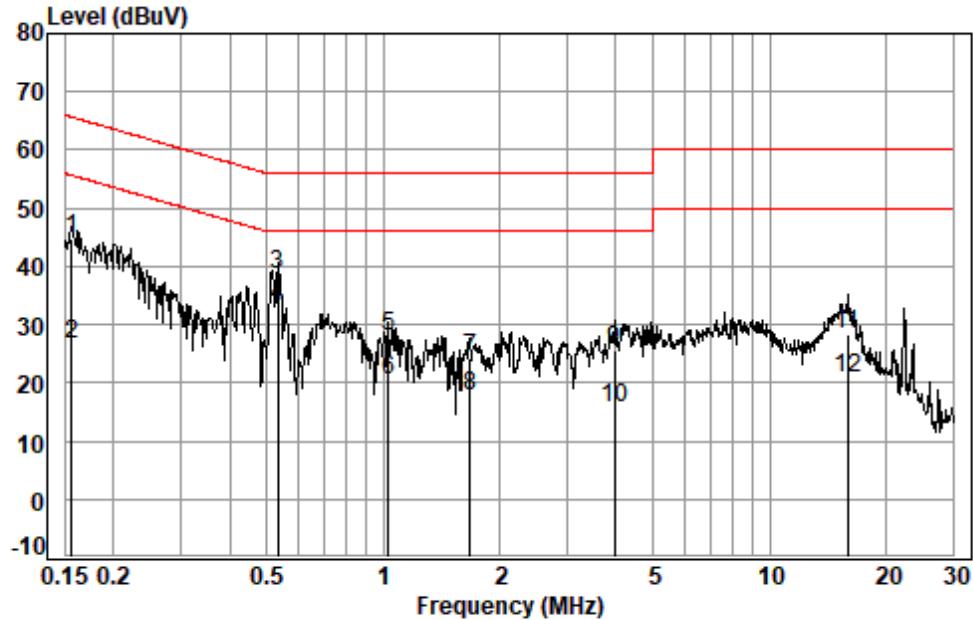
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Test Mode: 01; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 03293TL/03294TL
Test mode: 01

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1565	0.05	10.14	34.70	44.89	65.65	-20.76	QP
2	0.1565	0.05	10.14	16.34	26.53	55.65	-29.12	Average
3 *	0.5350	0.08	9.70	28.74	38.52	56.00	-17.48	QP
4 *	0.5350	0.08	9.70	23.36	33.14	46.00	-12.86	Average
5	1.0320	0.10	9.54	18.28	27.92	56.00	-28.08	QP
6	1.0320	0.10	9.54	10.70	20.34	46.00	-25.66	Average
7	1.6802	0.11	9.55	14.52	24.18	56.00	-31.82	QP
8	1.6802	0.11	9.55	8.06	17.72	46.00	-28.28	Average
9	3.9639	0.13	9.55	15.82	25.50	56.00	-30.50	QP
10	3.9639	0.13	9.55	6.03	15.71	46.00	-30.29	Average
11	15.8854	0.28	9.91	18.24	28.43	60.00	-31.57	QP
12	15.8854	0.28	9.91	10.45	20.64	50.00	-29.36	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

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: 1020 mbar

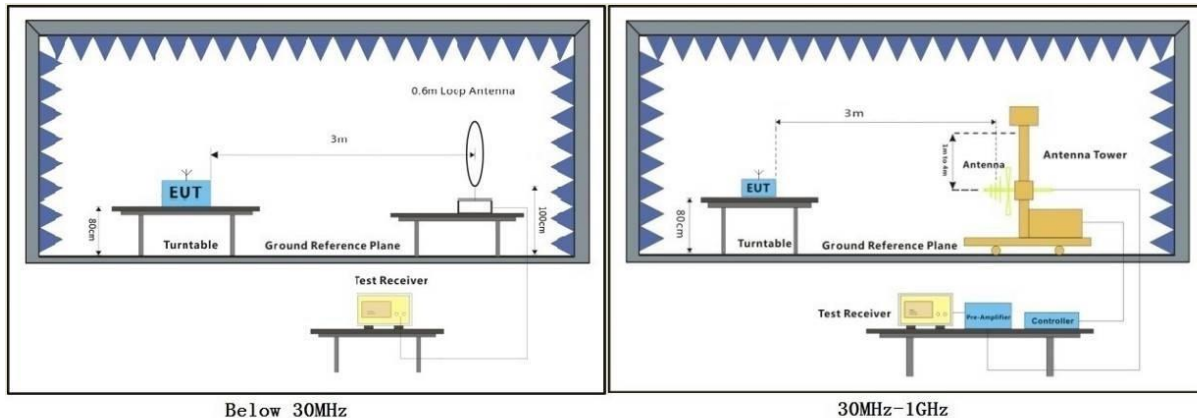
7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	02	TX mode (U-NII-2A) _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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	03	TX mode (U-NII-2C) _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 20/40/80, Only the data of worst case is recorded in the report.
Pre-scan	04	TX mode (U-NII-3) _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 20/40/80, Only the data of worst case is recorded in the report.

7.2.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz

7.2.4 Measurement Procedure and Data

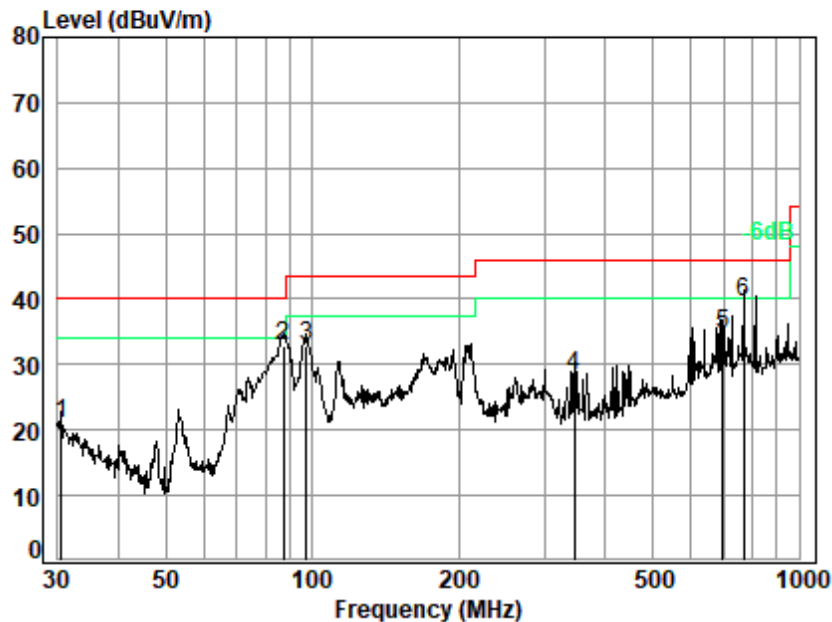
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, 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. For emission below 1GHz, through the pre-scan found the worst case is the lowest channel of 802.11a. Only the worst case is recorded in the report.
3. 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.
4. 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.



Test Mode: 01; Polarity: Horizontal

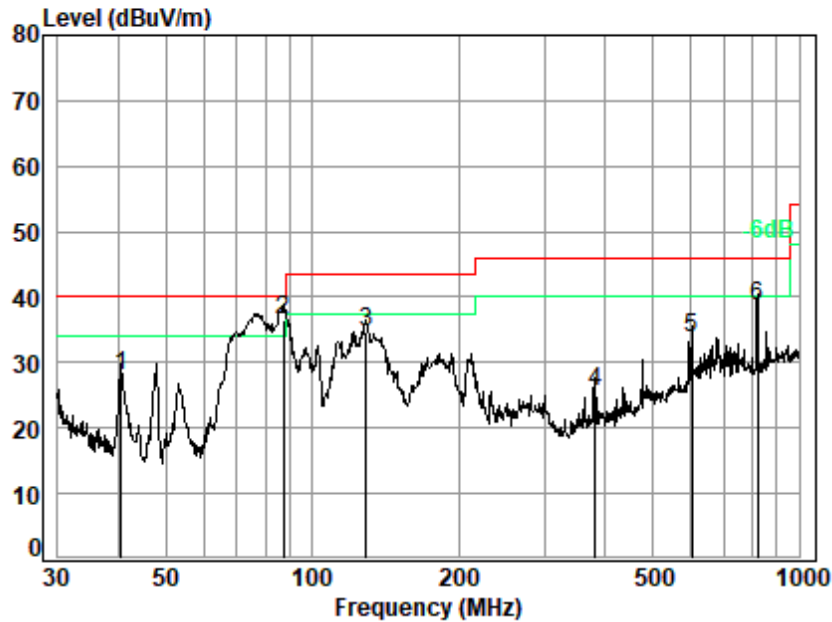


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 03293TL/03294TL
Test Mode: 01

	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	30.531	20.95	0.74	27.65	26.86	20.90	40.00	-19.10 QP
2	87.112	11.33	1.16	27.61	47.95	32.83	40.00	-7.17 QP
3	97.456	12.19	1.21	27.60	46.93	32.73	43.50	-10.77 QP
4	345.595	19.58	2.30	27.62	34.17	28.43	46.00	-17.57 QP
5	696.857	25.88	3.40	27.84	33.38	34.82	46.00	-11.18 QP
6 q	768.748	26.68	3.61	27.67	36.80	39.42	46.00	-6.58 QP



Test Mode: 01; Polarity: Vertical



Site : chamber

Condition: 3m VERTICAL

Job No. : 03293TL/03294TL

Test Mode: 01

		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	40.417	16.20	0.82	27.64	38.53	27.91	40.00	-12.09	QP
2 q	87.418	11.38	1.16	27.61	51.56	36.49	40.00	-3.51	QP
3	129.015	10.99	1.40	27.67	49.91	34.63	43.50	-8.87	QP
4	381.249	20.91	2.43	27.71	29.94	25.57	46.00	-20.43	QP
5	603.539	24.47	3.11	28.09	34.13	33.62	46.00	-12.38	QP
6	821.710	26.56	3.76	27.46	35.66	38.52	46.00	-7.48	QP



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

Measurement Distance: 3m

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.

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)

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

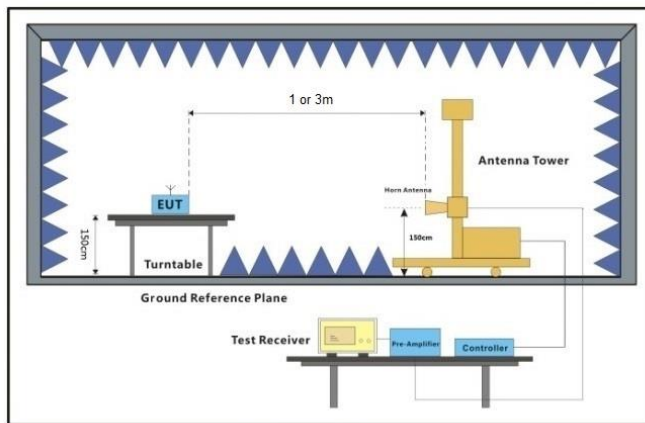
Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _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 20/40/80, Only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



Above 1GHz



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 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. 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 $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



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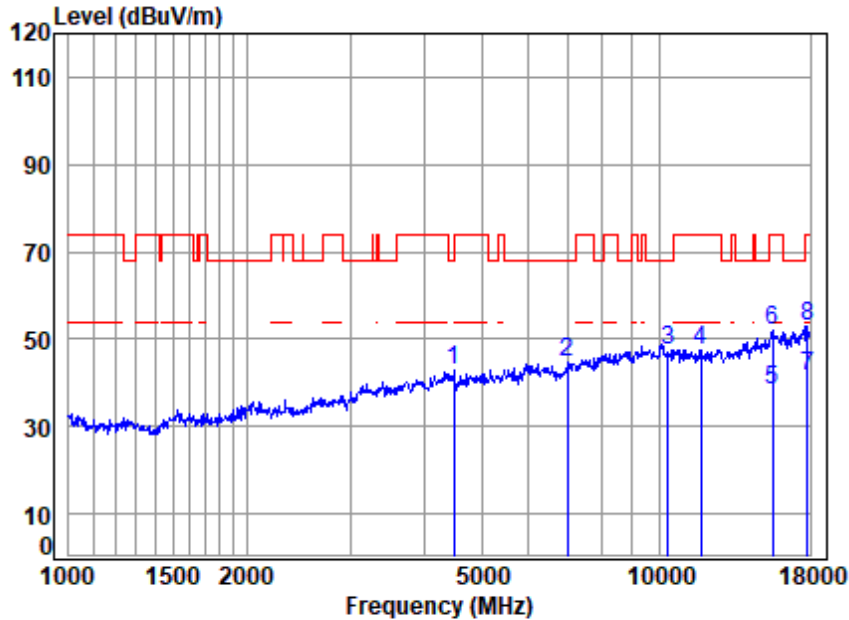
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700329303

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Remark: Only retain the worst-performing data of the 11a mode.

Test Mode: 01; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5180 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	4482.150	7.16	33.81	54.25	56.30	43.02	68.20	-25.18 peak
2	6995.172	8.56	35.71	53.20	53.52	44.59	68.20	-23.61 Peak
3	p10360.000	10.58	37.10	53.13	52.97	47.52	68.20	-20.68 peak
4	11769.210	11.55	37.90	53.16	51.16	47.45	74.00	-26.55 Peak
5	15540.000	10.88	41.10	52.16	38.55	38.37	54.00	-15.63 Average
6	15540.000	10.88	41.10	52.16	52.25	52.07	74.00	-21.93 peak
7	q17793.090	11.38	43.89	52.50	38.95	41.72	54.00	-12.28 Average
8	17793.090	11.38	43.89	52.50	50.13	52.90	74.00	-21.10 Peak



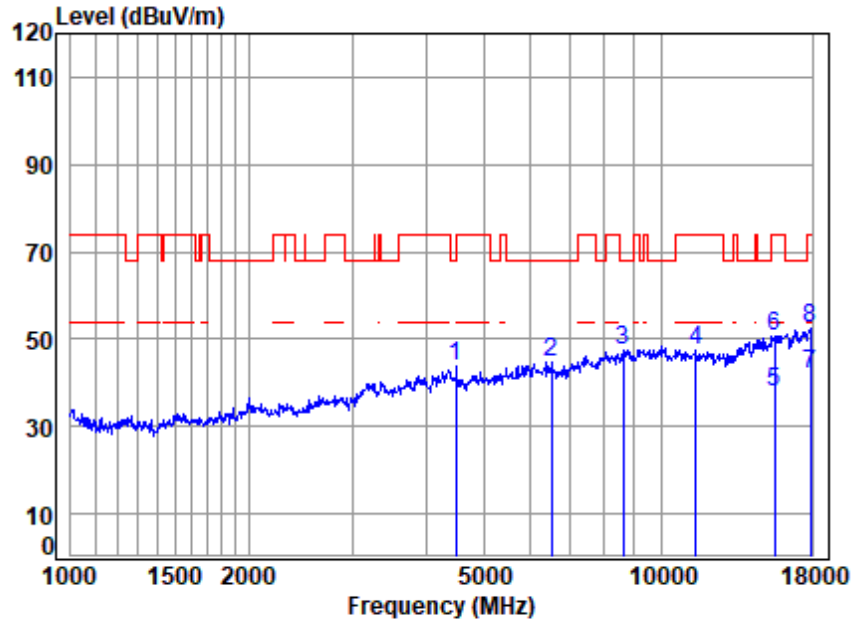
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

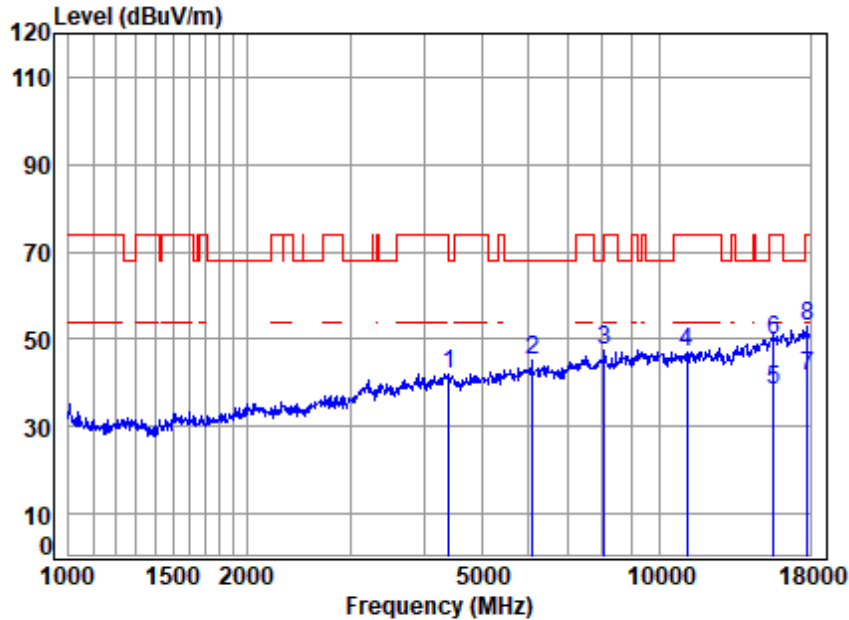


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5180 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4495.125	7.17	33.66	54.25	57.35	43.93	68.20	-24.27 peak
2	6526.373	8.86	35.55	53.15	53.30	44.56	68.20	-23.64 Peak
3 p	8613.468	9.81	36.90	53.41	54.32	47.62	68.20	-20.58 Peak
4	11433.910	11.40	37.73	53.09	51.19	47.23	74.00	-26.77 Peak
5	15540.000	10.88	41.10	52.16	38.24	38.06	54.00	-15.94 Average
6	15540.000	10.88	41.10	52.16	50.72	50.54	74.00	-23.46 peak
7 q	17896.250	11.44	43.90	52.45	38.95	41.84	54.00	-12.16 Average
8	17896.250	11.44	43.90	52.45	49.73	52.62	74.00	-21.38 peak



Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

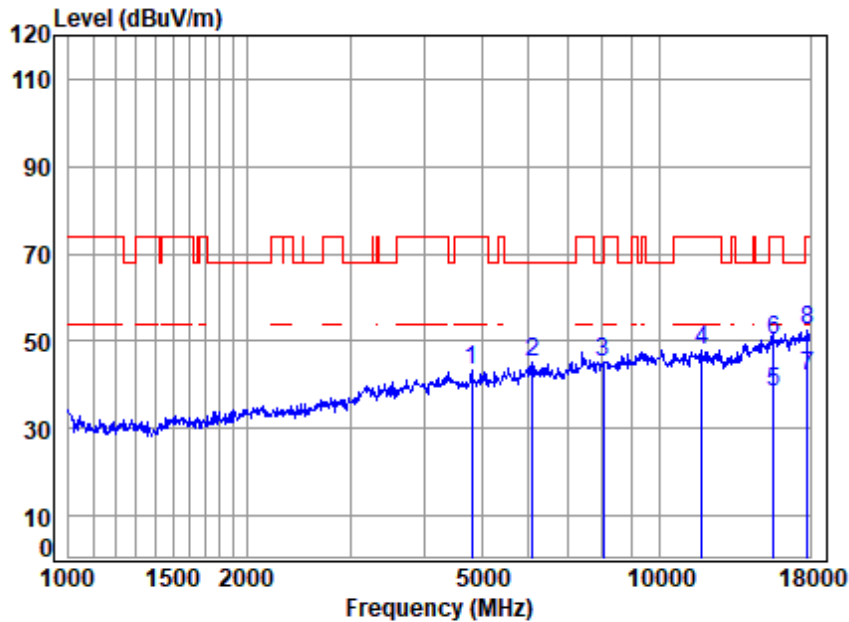


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5200 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4405.090	7.12	34.74	54.26	54.47	42.07	68.20	-26.13 peak
2	6088.991	8.92	35.08	53.11	54.30	45.19	68.20	-23.01 Peak
3	8082.804	9.16	36.47	53.14	54.91	47.40	74.00	-26.60 Peak
4	11140.310	11.17	37.58	53.03	51.48	47.20	74.00	-26.80 Peak
5	15600.000	10.88	41.10	52.11	38.27	38.14	54.00	-15.86 Average
6	15600.000	10.88	41.10	52.11	50.04	49.91	74.00	-24.09 peak
7	q17793.090	11.38	43.89	52.50	38.97	41.74	54.00	-12.26 Average
8	p17793.090	11.38	43.89	52.50	49.94	52.71	74.00	-21.29 peak



Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

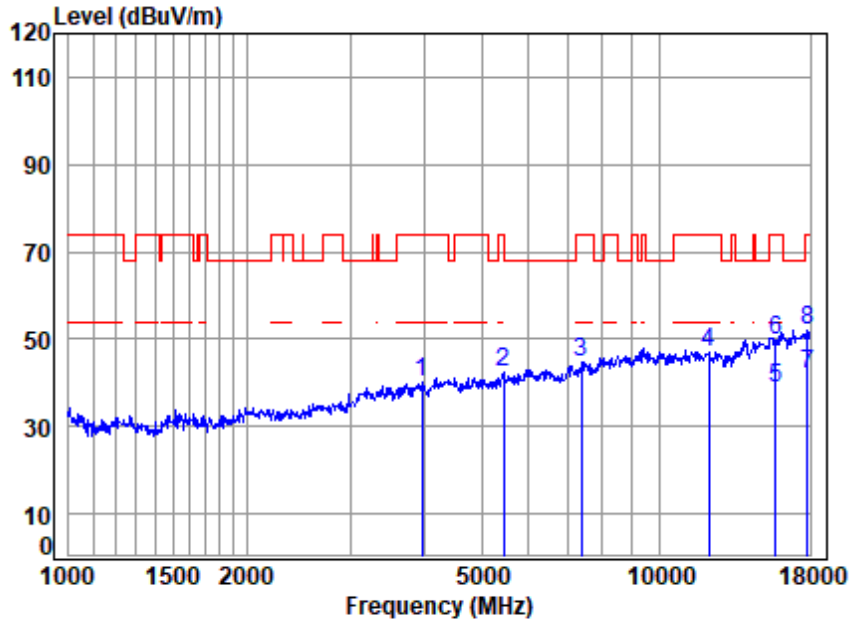


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5200 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	4804.110	7.41	34.32	54.22	55.99	43.50	74.00	-30.50 Peak
2	6106.616	8.92	35.07	53.11	54.52	45.40	68.20	-22.80 Peak
3	8036.214	9.12	36.40	53.12	52.88	45.28	74.00	-28.72 Peak
4	11803.280	11.56	37.89	53.16	51.62	47.91	74.00	-26.09 Peak
5	15600.000	10.88	41.10	52.11	38.37	38.24	54.00	-15.76 Average
6	15600.000	10.88	41.10	52.11	50.42	50.29	74.00	-23.71 peak
7	q17844.590	11.41	43.90	52.48	38.96	41.79	54.00	-12.21 Average
8	p17844.590	11.41	43.90	52.48	49.52	52.35	74.00	-21.65 peak



Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

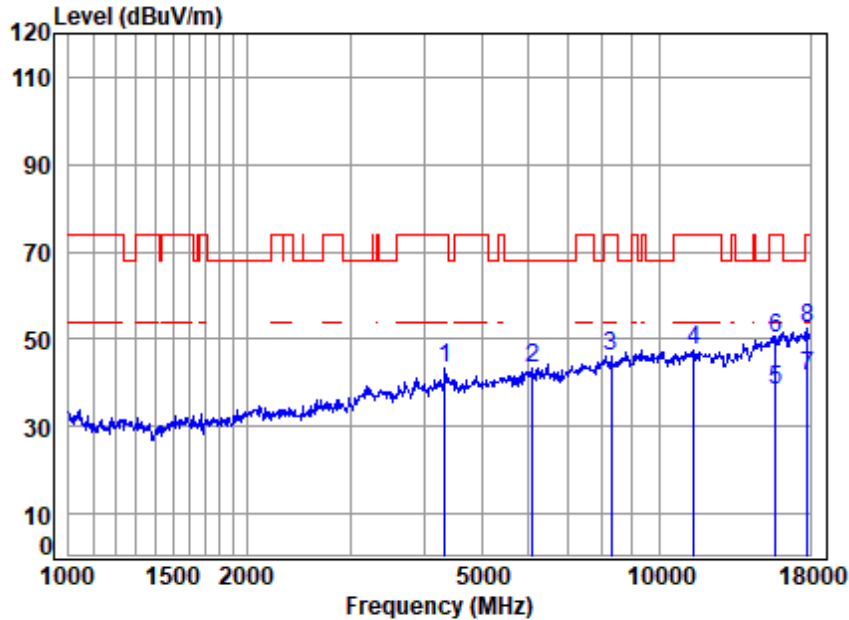


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5240 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	3958.309	6.84	33.42	54.33	54.30	40.23	74.00	-33.77 Peak
2	5439.885	8.09	34.68	53.69	53.32	42.40	74.00	-31.60 Peak
3	7390.070	8.44	35.78	53.16	53.69	44.75	74.00	-29.25 Peak
4	12149.420	11.62	37.80	53.20	50.89	47.11	74.00	-26.89 Peak
5	15720.000	10.89	41.22	52.02	38.52	38.61	54.00	-15.39 Average
6	15720.000	10.89	41.22	52.02	49.51	49.60	74.00	-24.40 peak
7	q17844.590	11.41	43.90	52.48	38.95	41.78	54.00	-12.22 Average
8	p17844.590	11.41	43.90	52.48	49.26	52.09	74.00	-21.91 peak



Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

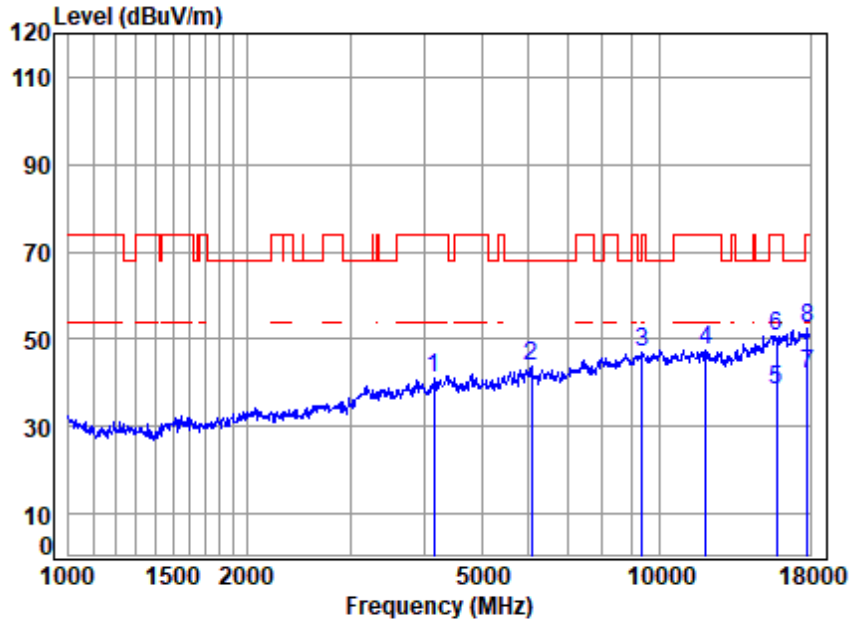


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5240 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4329.354	7.08	34.23	54.26	56.32	43.37	74.00	-30.63 Peak
2	6106.616	8.92	35.07	53.11	52.46	43.34	68.20	-24.86 Peak
3	8295.823	9.38	36.70	53.25	53.34	46.17	74.00	-27.83 Peak
4	11433.910	11.40	37.73	53.09	51.59	47.63	74.00	-26.37 Peak
5	15720.000	10.89	41.22	52.02	38.36	38.45	54.00	-15.55 Average
6	15720.000	10.89	41.22	52.02	49.92	50.01	74.00	-23.99 peak
7	q17793.090	11.38	43.89	52.50	38.93	41.70	54.00	-12.30 Average
8	p17793.090	11.38	43.89	52.50	49.79	52.56	74.00	-21.44 peak



Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

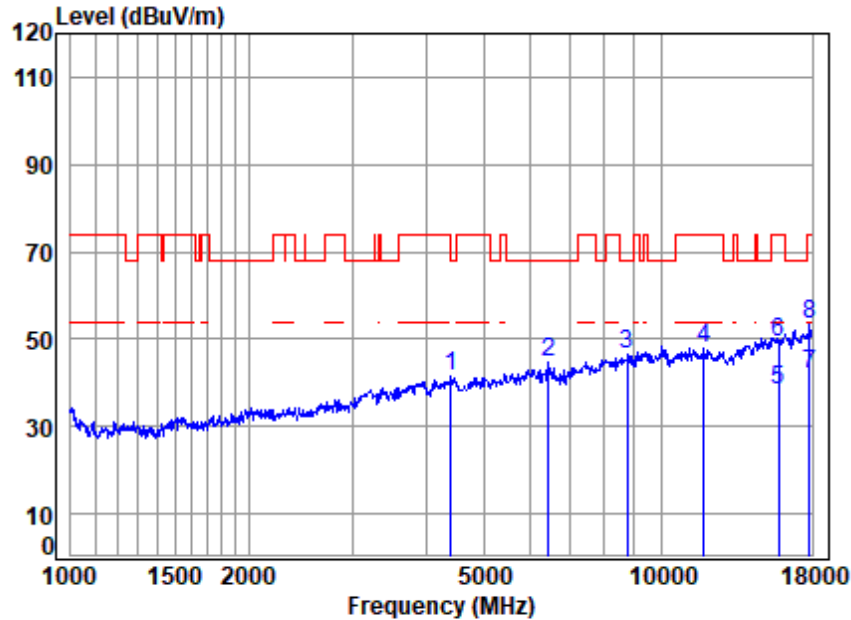


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5260 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4145.664	6.98	33.73	54.28	54.69	41.12	74.00	-32.88	Peak
2	6071.417	8.92	35.04	53.11	53.00	43.85	68.20	-24.35	Peak
3	9366.577	10.72	37.37	53.45	52.19	46.83	74.00	-27.17	Peak
4	11975.100	11.62	37.78	53.20	51.33	47.53	74.00	-26.47	Peak
5	15780.000	10.89	41.28	51.97	38.34	38.54	54.00	-15.46	Average
6	15780.000	10.89	41.28	51.97	50.29	50.49	74.00	-23.51	peak
7	q17844.590	11.41	43.90	52.48	38.97	41.80	54.00	-12.20	Average
8	p17844.590	11.41	43.90	52.48	49.60	52.43	74.00	-21.57	peak



Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

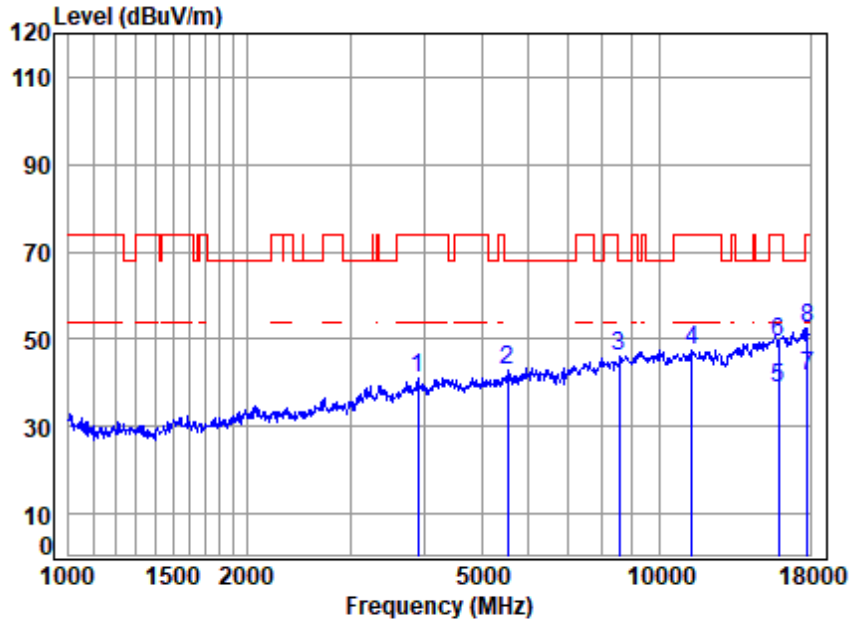


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5260 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4405.090	7.12	34.74	54.26	53.84	41.44	68.20	-26.76 Peak
2	6451.353	8.88	35.50	53.15	53.51	44.74	68.20	-23.46 Peak
3	8764.146	10.12	36.96	53.49	52.74	46.33	68.20	-21.87 Peak
4	11803.280	11.56	37.89	53.16	51.51	47.80	74.00	-26.20 Peak
5	15780.000	10.89	41.28	51.97	38.22	38.42	54.00	-15.58 Average
6	15780.000	10.89	41.28	51.97	49.15	49.35	74.00	-24.65 peak
7	q17844.590	11.41	43.90	52.48	38.93	41.76	54.00	-12.24 Average
8	p17844.590	11.41	43.90	52.48	50.73	53.56	74.00	-20.44 peak



Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

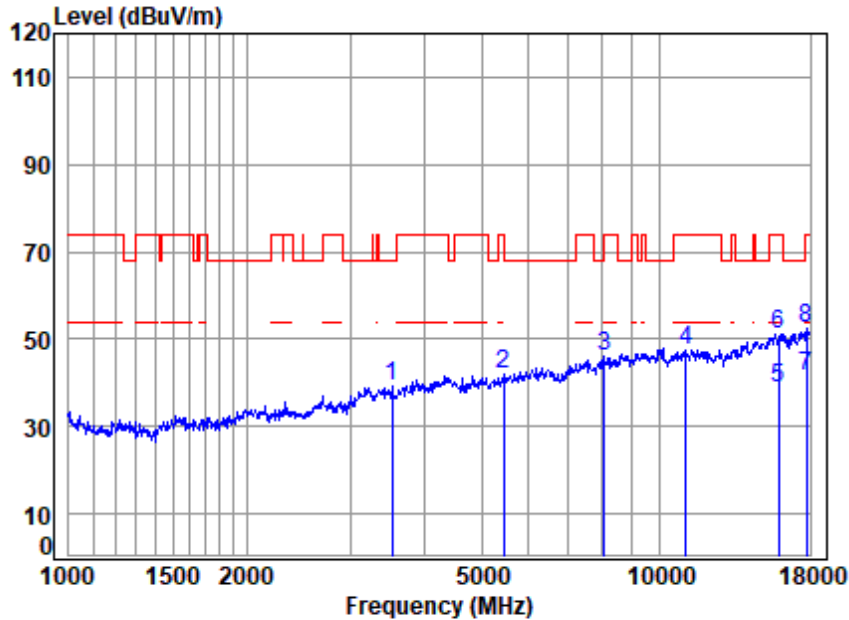


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5300 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	3901.516	6.77	33.79	54.36	54.69	40.89	74.00	-33.11 Peak
2	5535.047	8.22	34.64	53.59	53.44	42.71	68.20	-25.49 Peak
3	8563.818	9.71	36.83	53.39	52.87	46.02	68.20	-22.18 Peak
4	11368.000	11.35	37.73	53.08	51.41	47.41	74.00	-26.59 Peak
5	15900.000	10.90	41.40	51.88	38.34	38.76	54.00	-15.24 Average
6	15900.000	10.90	41.40	51.88	48.65	49.07	74.00	-24.93 peak
7	q17793.090	11.38	43.89	52.50	38.88	41.65	54.00	-12.35 Average
8	p17793.090	11.38	43.89	52.50	49.65	52.42	74.00	-21.58 peak



Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

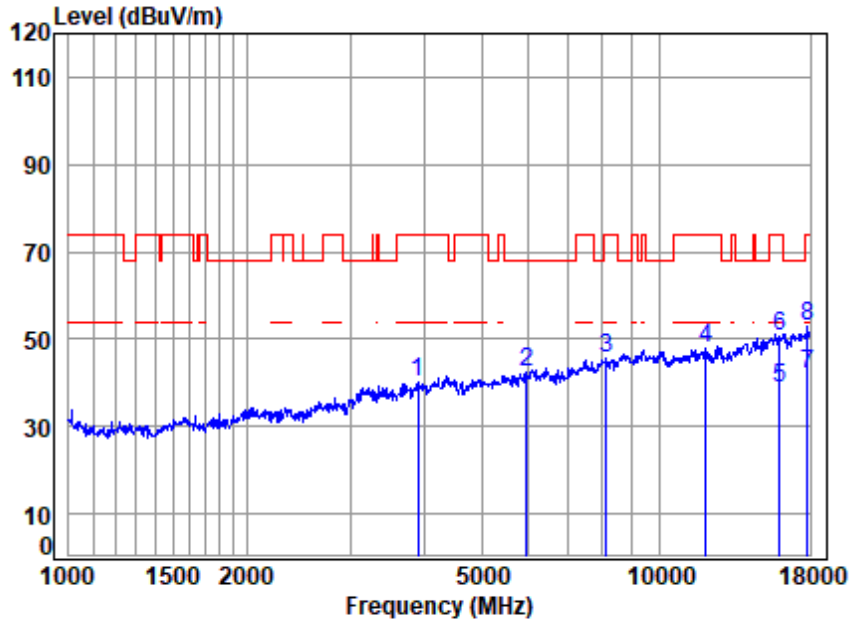


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5300 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	3526.134	6.23	31.60	54.61	55.95	39.17	68.20	-29.03 Peak
2	5439.885	8.09	34.68	53.69	52.89	41.97	74.00	-32.03 Peak
3	8059.475	9.14	36.42	53.13	53.76	46.19	74.00	-27.81 Peak
4	11108.160	11.15	37.52	53.02	51.72	47.37	74.00	-26.63 Peak
5	15900.000	10.90	41.40	51.88	38.27	38.69	54.00	-15.31 Average
6	15900.000	10.90	41.40	51.88	50.59	51.01	74.00	-22.99 peak
7	q17741.740	11.35	43.84	52.53	38.91	41.57	54.00	-12.43 Average
8	p17741.740	11.35	43.84	52.53	49.65	52.31	74.00	-21.69 peak



Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

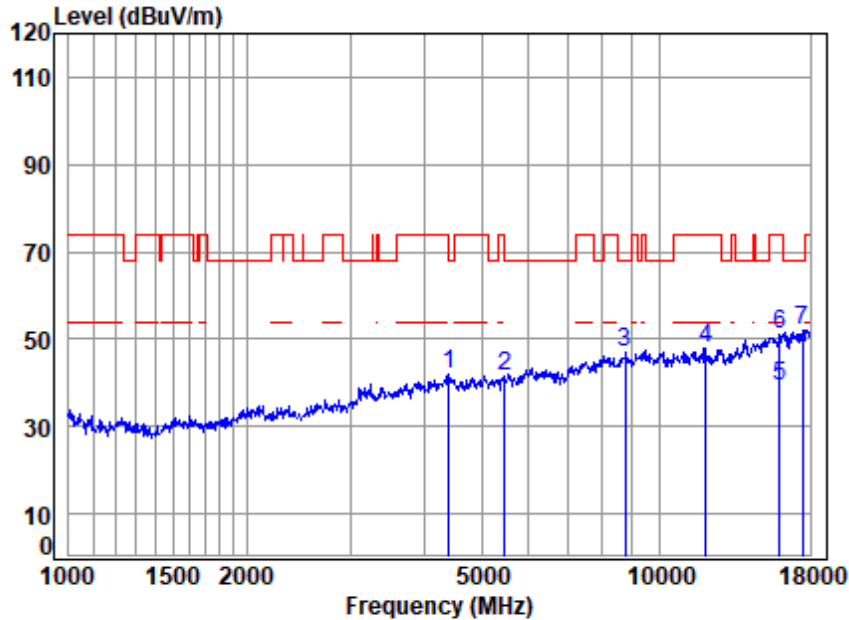


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5320 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	3901.516	6.77	33.79	54.36	53.97	40.17	74.00	-33.83 Peak
2	5949.811	8.86	34.70	53.15	51.82	42.23	68.20	-25.97 Peak
3	8129.664	9.21	36.50	53.17	52.95	45.49	74.00	-28.51 Peak
4	12009.760	11.63	37.79	53.20	51.61	47.83	74.00	-26.17 Peak
5	15960.000	10.90	41.52	51.83	38.36	38.95	54.00	-15.05 Average
6	15960.000	10.90	41.52	51.83	49.90	50.49	74.00	-23.51 peak
7	q17844.590	11.41	43.90	52.48	38.96	41.79	54.00	-12.21 Average
8	p17844.590	11.41	43.90	52.48	50.07	52.90	74.00	-21.10 peak



Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

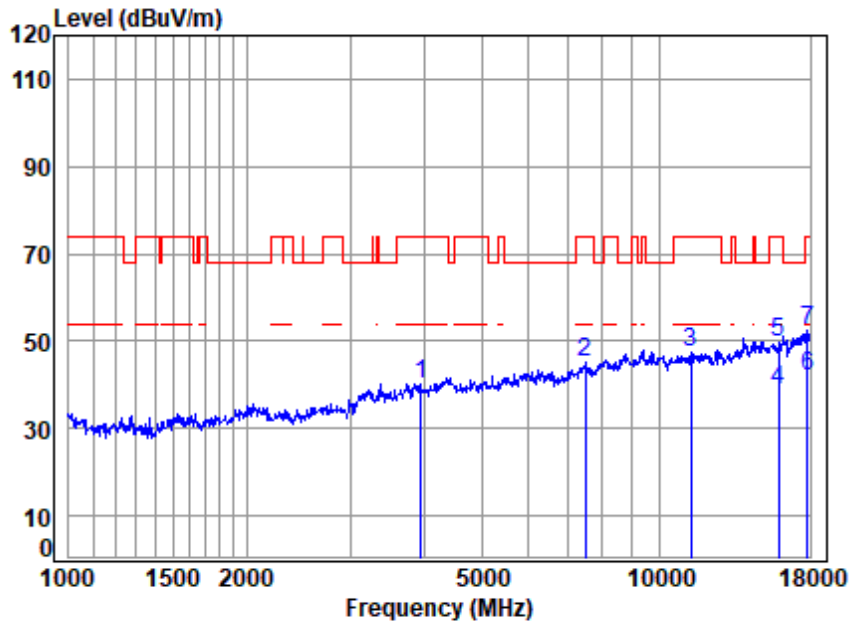


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5320 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	4405.090	7.12	34.74	54.26	54.19	41.79	68.20	-26.41 Peak
2	5471.422	8.13	34.61	53.66	52.34	41.42	68.20	-26.78 Peak
3	8764.146	10.12	36.96	53.49	53.41	47.00	68.20	-21.20 Peak
4	11975.100	11.62	37.78	53.20	51.72	47.92	74.00	-26.08 Peak
5	q15960.000	10.90	41.52	51.83	38.67	39.26	54.00	-14.74 Average
6	15960.000	10.90	41.52	51.83	50.45	51.04	74.00	-22.96 peak
7	p17487.180	11.19	43.40	52.65	50.14	52.08	68.20	-16.12 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5500 TX RSE
Note : 5G WIFI 11A

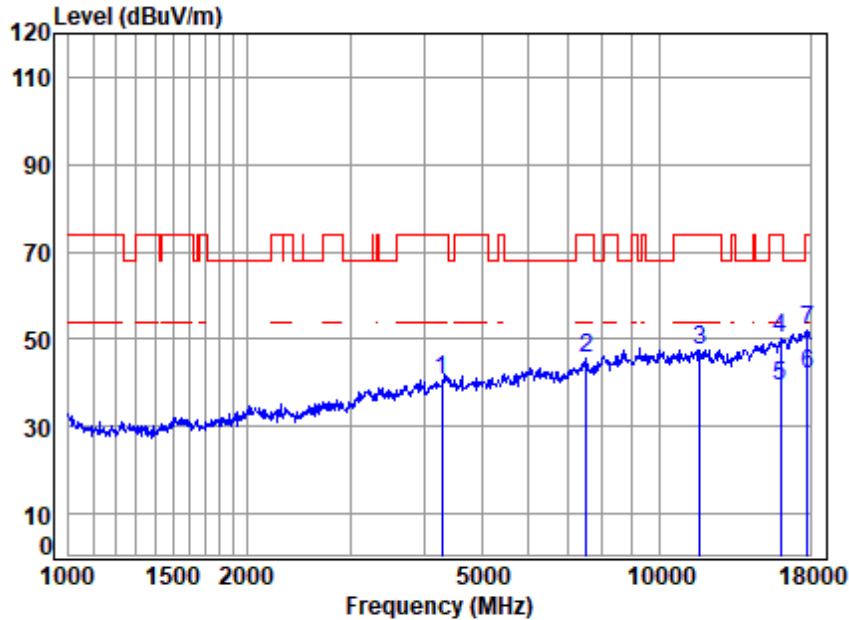
		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	3946.885	6.83	33.52	54.33	54.03	40.05	74.00	-33.95	Peak
2	7497.646	8.41	36.10	53.15	53.67	45.03	74.00	-28.97	Peak
3	11302.480	11.30	37.80	53.06	51.25	47.29	74.00	-26.71	Peak
4	15942.300	10.90	41.48	51.84	38.42	38.96	54.00	-15.04	Average
5	15942.300	10.90	41.48	51.84	49.05	49.59	74.00	-24.41	Peak
6	q17844.590	11.41	43.90	52.48	38.93	41.76	54.00	-12.24	Average
7	p17844.590	11.41	43.90	52.48	49.70	52.53	74.00	-21.47	peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5500 TX RSE
Note : 5G WIFI 11A

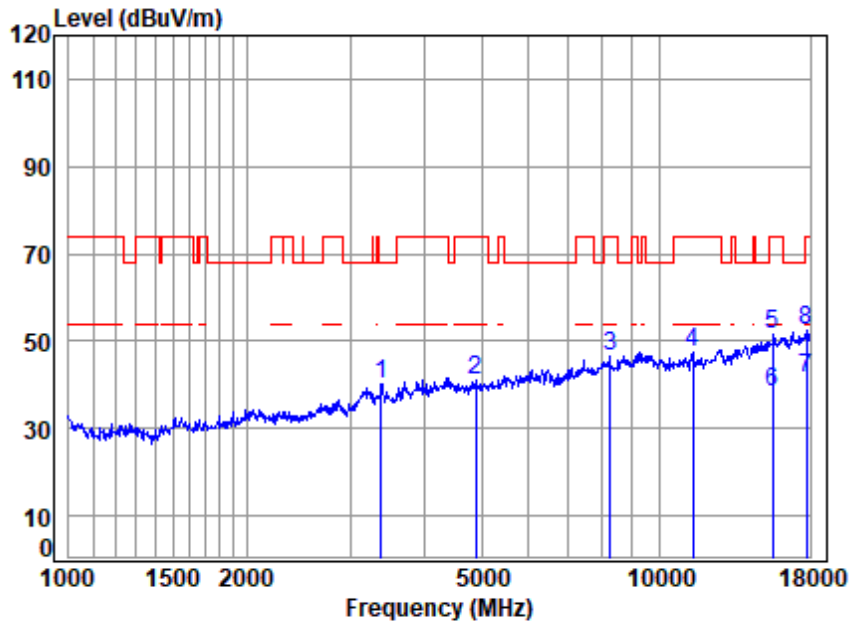
		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4291.977	7.06	33.97	54.27	53.79	40.55	74.00	-33.45	Peak
2	7519.349	8.44	36.10	53.15	54.06	45.45	74.00	-28.55	Peak
3	11735.250	11.54	37.90	53.15	51.17	47.46	74.00	-26.54	Peak
4	16034.730	10.91	41.63	51.84	49.36	50.06	74.00	-23.94	Peak
5	16034.730	10.91	41.63	51.84	38.42	39.12	54.00	-14.88	Average
6	q17844.590	11.41	43.90	52.48	38.93	41.76	54.00	-12.24	Average
7	p17844.590	11.41	43.90	52.48	49.35	52.18	74.00	-21.82	peak



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Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

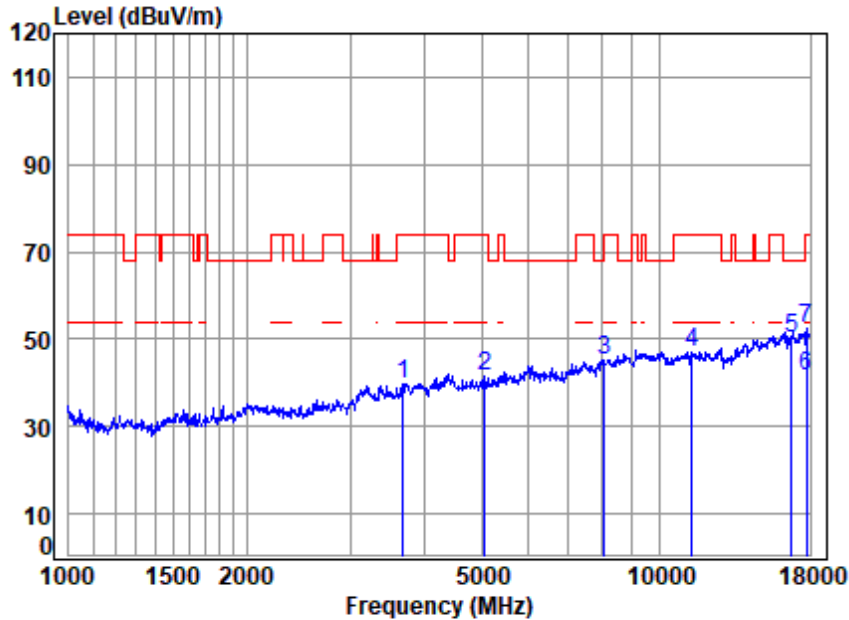


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5580 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	3376.523	6.12	32.26	54.71	56.61	40.28	68.20	-27.92 Peak
2	4888.151	7.48	34.65	54.21	53.05	40.97	74.00	-33.03 Peak
3	8248.005	9.33	36.70	53.23	53.89	46.69	74.00	-27.31 Peak
4	11400.910	11.37	37.70	53.08	51.53	47.52	74.00	-26.48 Peak
5	15577.900	10.88	41.10	52.13	51.48	51.33	74.00	-22.67 Peak
6	15577.900	10.88	41.10	52.13	38.57	38.42	54.00	-15.58 Average
7	q17741.740	11.35	43.84	52.53	38.96	41.62	54.00	-12.38 Average
8	p17741.740	11.35	43.84	52.53	50.00	52.66	74.00	-21.34 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

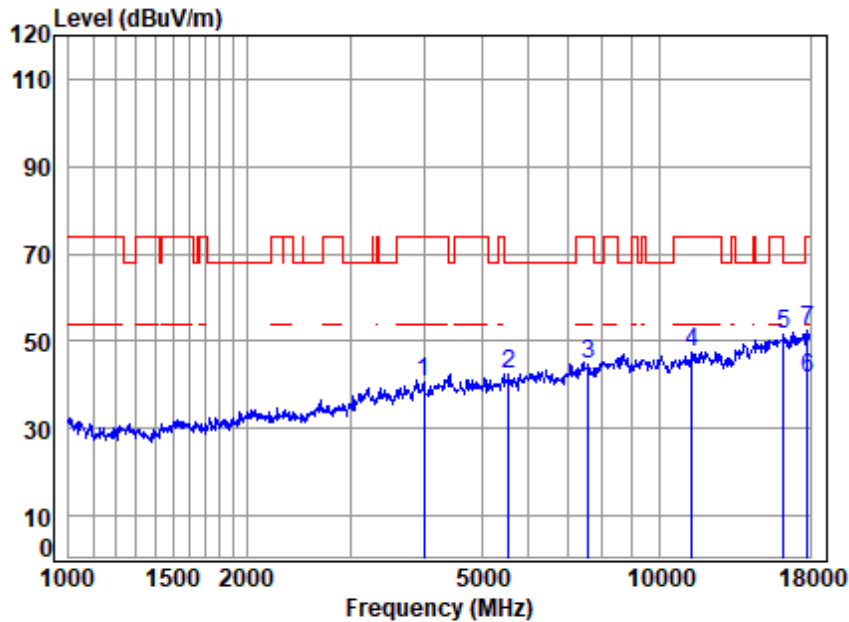


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5580 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	3682.374	6.46	32.89	54.50	55.04	39.89	74.00	-34.11 Peak
2	5060.668	7.64	34.08	54.13	53.83	41.42	74.00	-32.58 Peak
3	8082.804	9.16	36.47	53.14	52.82	45.31	74.00	-28.69 Peak
4	11368.000	11.35	37.73	53.08	51.16	47.16	74.00	-26.84 Peak
5	p16740.000	10.98	42.78	52.62	48.82	49.96	68.20	-18.24 peak
6	q17741.740	11.35	43.84	52.53	38.91	41.57	54.00	-12.43 Average
7	17741.740	11.35	43.84	52.53	49.62	52.28	74.00	-21.72 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5700 TX RSE
Note : 5G WIFI 11A

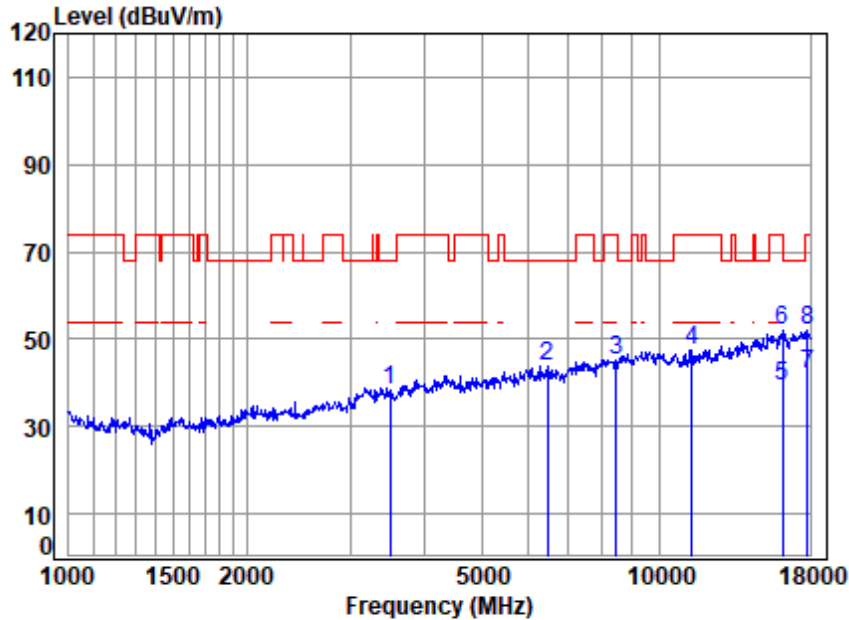
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	3992.781	6.89	33.07	54.30	55.00	40.66	74.00	-33.34 Peak
2	5551.069	8.24	34.70	53.57	53.08	42.45	68.20	-25.75 Peak
3	7584.833	8.53	36.17	53.14	53.25	44.81	74.00	-29.19 Peak
4	11335.190	11.32	37.76	53.07	51.31	47.32	74.00	-26.68 Peak
5	p16221.190	10.94	41.84	52.05	50.67	51.40	68.20	-16.80 Peak
6	q17793.090	11.38	43.89	52.50	38.93	41.70	54.00	-12.30 Average
7	17793.090	11.38	43.89	52.50	49.90	52.67	74.00	-21.33 peak



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Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

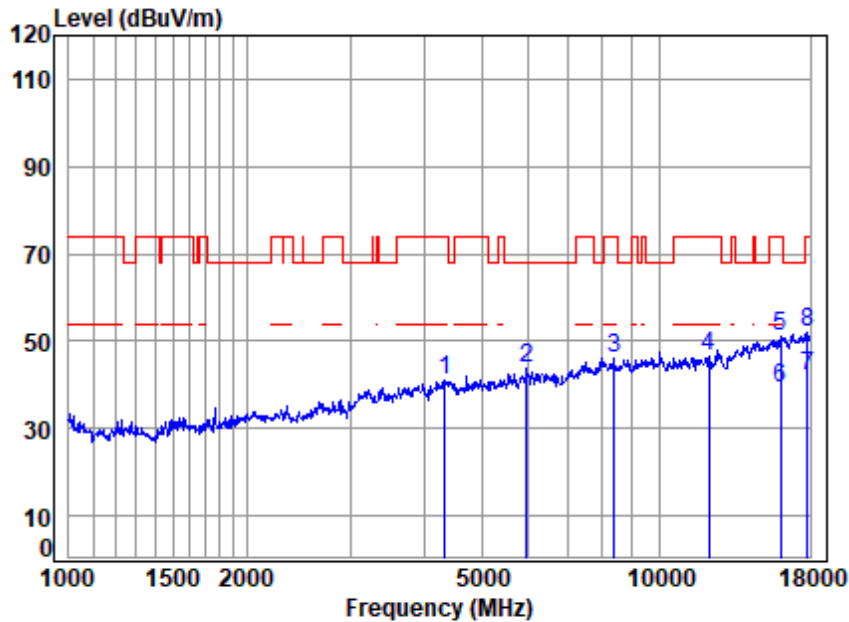


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5700 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	3505.809	6.20	31.60	54.62	55.12	38.30	68.20	-29.90 Peak
2	6470.026	8.88	35.54	53.15	52.48	43.75	68.20	-24.45 Peak
3	8440.945	9.52	36.62	53.33	52.54	45.35	74.00	-28.65 Peak
4	11335.190	11.32	37.76	53.07	51.31	47.32	74.00	-26.68 Peak
5	16174.370	10.93	41.77	52.00	38.35	39.05	54.00	-14.95 Average
6	16174.370	10.93	41.77	52.00	51.20	51.90	74.00	-22.10 Peak
7	q17844.590	11.41	43.90	52.48	38.97	41.80	54.00	-12.20 Average
8	p17844.590	11.41	43.90	52.48	49.24	52.07	74.00	-21.93 peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

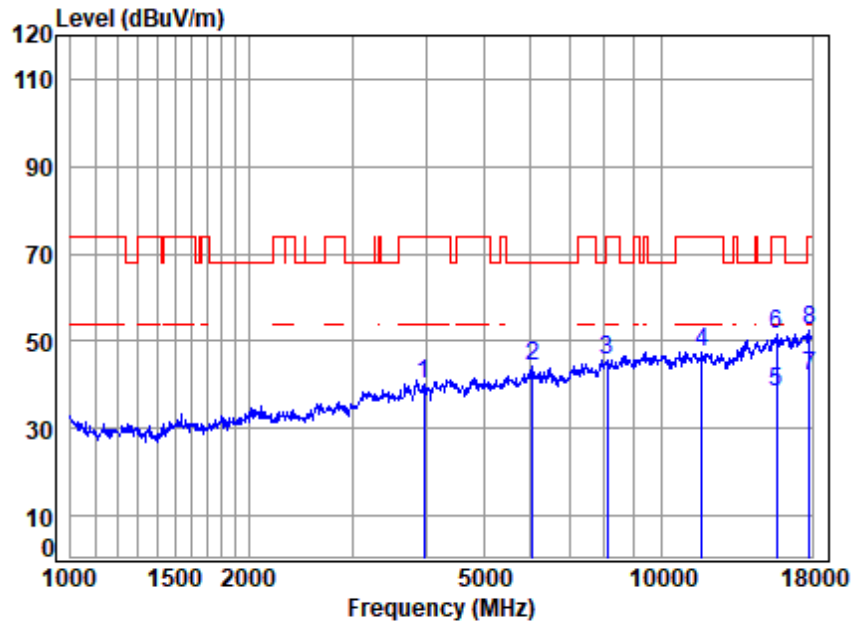


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5745 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4341.886	7.09	34.34	54.26	53.68	40.85	74.00	-33.15 Peak
2	5967.033	8.88	34.77	53.13	53.09	43.61	68.20	-24.59 Peak
3	8392.292	9.47	36.70	53.30	53.31	46.18	74.00	-27.82 Peak
4	12149.420	11.62	37.80	53.20	50.40	46.62	74.00	-27.38 Peak
5	16034.730	10.91	41.63	51.84	50.19	50.89	74.00	-23.11 Peak
6	16034.730	10.91	41.63	51.84	38.36	39.06	54.00	-14.94 Average
7	q17844.590	11.41	43.90	52.48	38.92	41.75	54.00	-12.25 Average
8	p17844.590	11.41	43.90	52.48	49.37	52.20	74.00	-21.80 peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

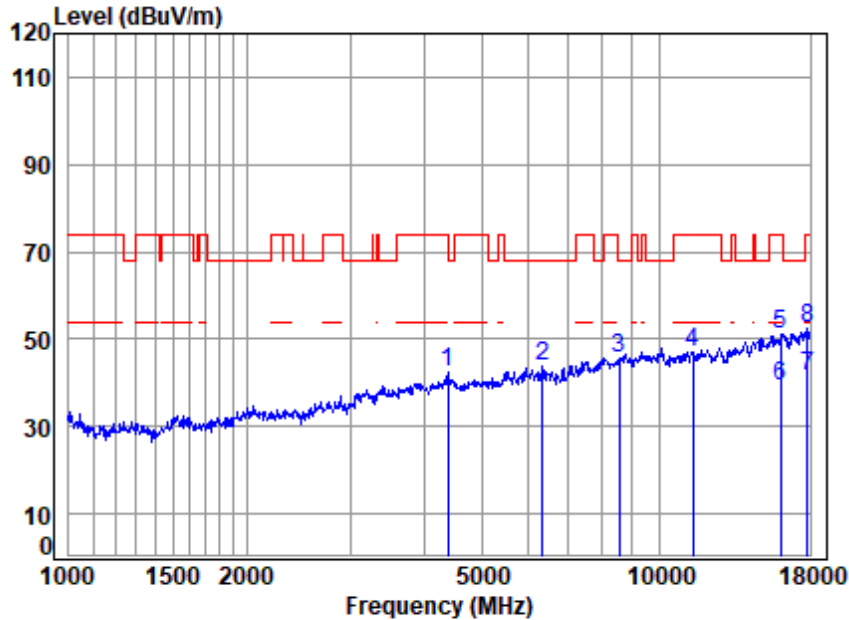


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5745 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	3958.309	6.84	33.42	54.33	54.18	40.11	74.00	-33.89 Peak
2	6053.894	8.92	35.01	53.11	53.59	44.41	68.20	-23.79 Peak
3	8106.200	9.19	36.50	53.16	53.08	45.61	74.00	-28.39 Peak
4	11735.250	11.54	37.90	53.15	51.03	47.32	74.00	-26.68 Peak
5	15668.210	10.89	41.17	52.06	38.37	38.37	54.00	-15.63 Average
6	15668.210	10.89	41.17	52.06	51.58	51.58	74.00	-22.42 Peak
7	q17844.590	11.41	43.90	52.48	38.96	41.79	54.00	-12.21 Average
8	p17844.590	11.41	43.90	52.48	49.52	52.35	74.00	-21.65 peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

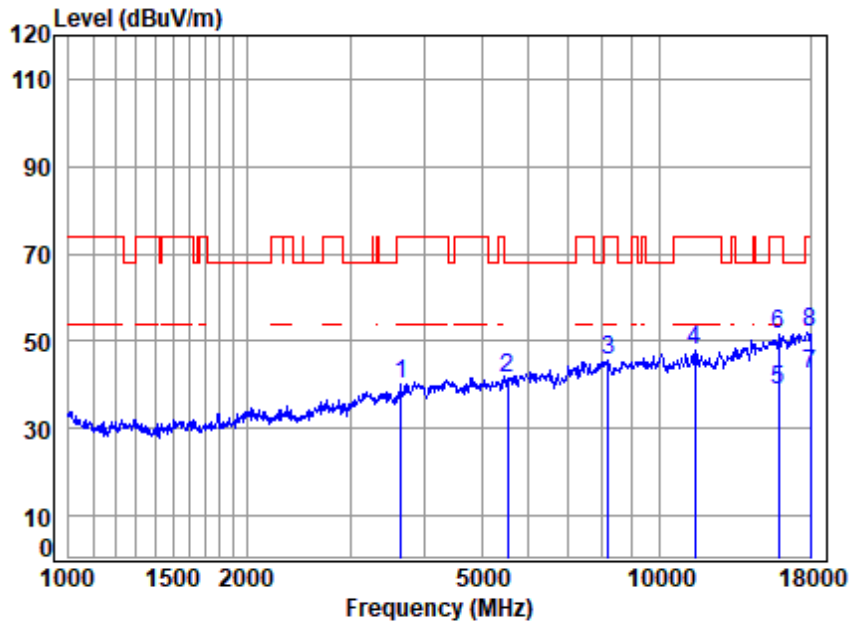


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5785 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4379.699	7.11	34.64	54.26	55.11	42.60	74.00	-31.40 Peak
2	6340.436	8.90	34.92	53.14	52.95	43.63	68.20	-24.57 Peak
3	8539.102	9.66	36.78	53.38	52.65	45.71	68.20	-22.49 Peak
4	11400.910	11.37	37.70	53.08	51.20	47.19	74.00	-26.81 Peak
5	16034.730	10.91	41.63	51.84	50.44	51.14	74.00	-22.86 Peak
6	16034.730	10.91	41.63	51.84	38.33	39.03	54.00	-14.97 Average
7	q17844.590	11.41	43.90	52.48	38.89	41.72	54.00	-12.28 Average
8	p17844.590	11.41	43.90	52.48	49.48	52.31	74.00	-21.69 peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:middle

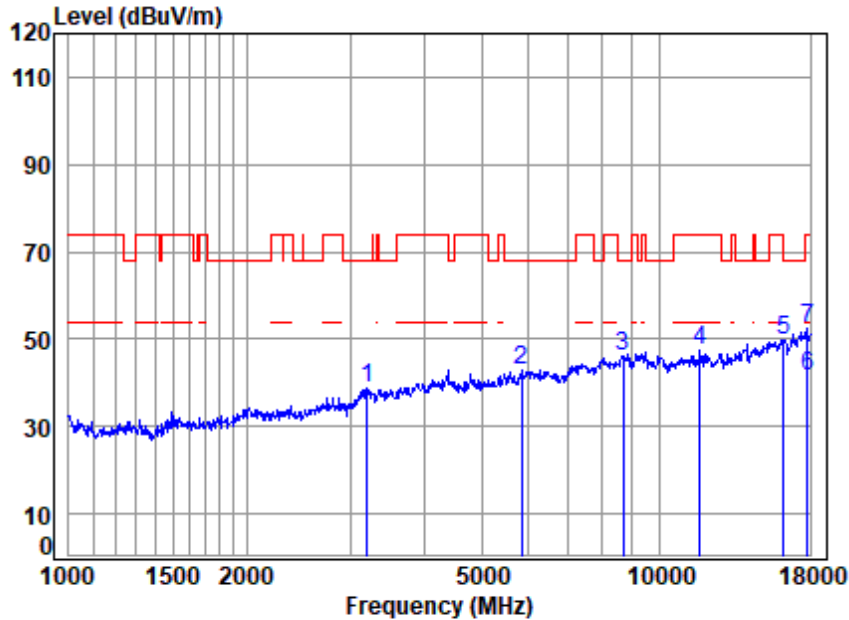


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5785 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	3650.582	6.41	32.70	54.52	55.44	40.03	74.00	-33.97 Peak
2	5535.047	8.22	34.64	53.59	52.24	41.51	68.20	-26.69 Peak
3	8200.463	9.28	36.60	53.21	53.15	45.82	74.00	-28.18 Peak
4	11467.000	11.42	37.77	53.10	51.62	47.71	74.00	-26.29 Peak
5	15942.300	10.90	41.48	51.84	38.37	38.91	54.00	-15.09 Average
6	15942.300	10.90	41.48	51.84	50.83	51.37	74.00	-22.63 Peak
7	q18000.000	11.50	44.30	52.40	38.84	42.24	54.00	-11.76 Average
8	p18000.000	11.50	44.30	52.40	48.74	52.14	74.00	-21.86 peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

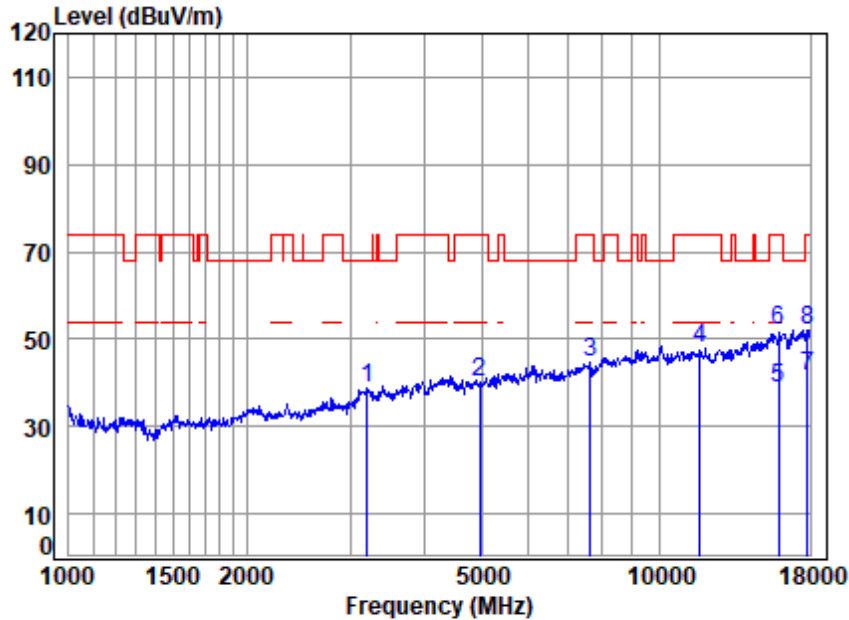


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5825 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	3196.094	6.01	32.87	54.85	54.59	38.62	68.20	-29.58 Peak
2	5847.517	8.70	34.40	53.26	52.84	42.68	68.20	-25.52 Peak
3	8688.480	9.97	36.90	53.45	52.53	45.95	68.20	-22.25 Peak
4	11735.250	11.54	37.90	53.15	51.23	47.52	74.00	-26.48 Peak
5	p16221.190	10.94	41.84	52.05	49.20	49.93	68.20	-18.27 Peak
6	q17844.590	11.41	43.90	52.48	38.88	41.71	54.00	-12.29 Average
7	17844.590	11.41	43.90	52.48	49.79	52.62	74.00	-21.38 peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5825 TX RSE
Note : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	3205.345	6.02	32.81	54.84	54.86	38.85	68.20	-29.35 Peak
2	4973.662	7.54	34.51	54.20	52.36	40.21	74.00	-33.79 Peak
3	7650.888	8.62	36.20	53.13	52.86	44.55	74.00	-29.45 Peak
4	11735.250	11.54	37.90	53.15	51.65	47.94	74.00	-26.06 Peak
5	15942.300	10.90	41.48	51.84	38.33	38.87	54.00	-15.13 Average
6	15942.300	10.90	41.48	51.84	51.34	51.88	74.00	-22.12 Peak
7	q17793.090	11.38	43.89	52.50	38.89	41.66	54.00	-12.34 Average
8	p17793.090	11.38	43.89	52.50	49.26	52.03	74.00	-21.97 peak



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

Measurement Distance: 3m

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.

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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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.5 °C

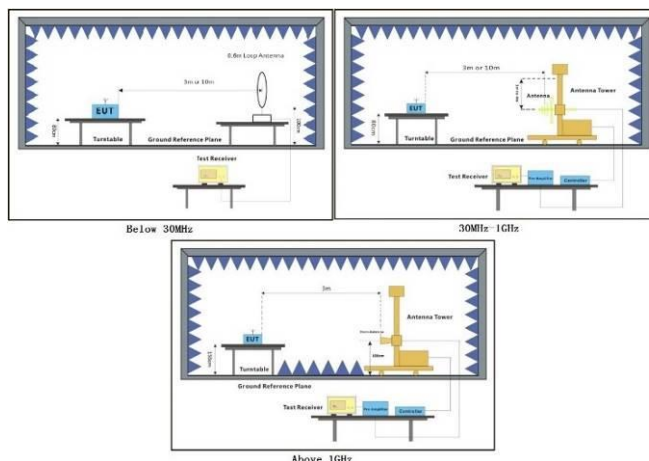
Humidity: 56.3 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1)_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 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _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 20/40/80, Only the data of worst case is recorded in the report.

7.4.3 Test Setup Diagram



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 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (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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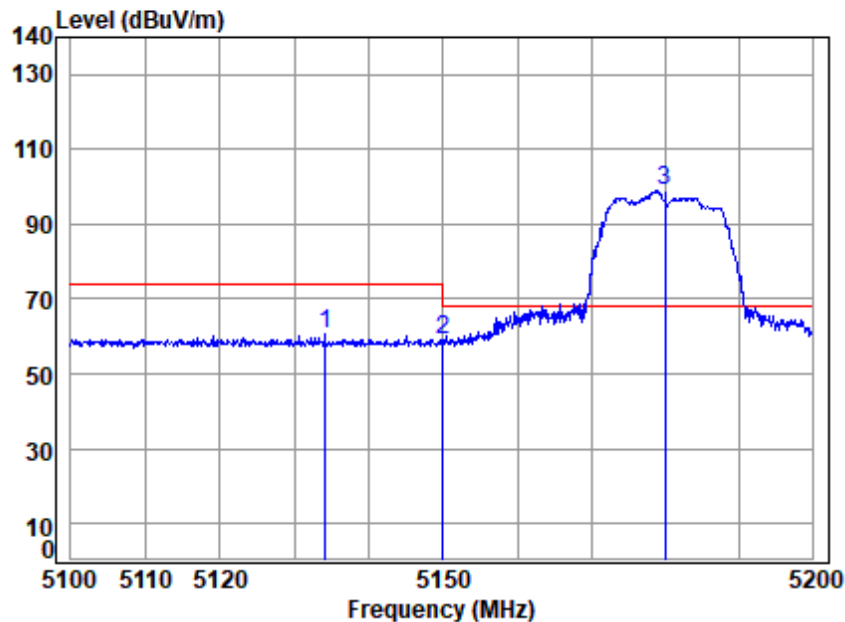
SZEMC-TRF-01 Rev. A/1

Report No.: SZCR250700329303

Page: 53 of 337

Remark: Only retain the worst-performing data of the 11a and 11ac modes.

Test Mode: 01; Polarity: Horizontal; Modulation: 802.11a; Bandwidth: 20MHz; Channel: Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5134.082	18.43	33.93	31.27	39.45	60.54	74.00	-13.46 peak
2	5149.980	18.47	33.90	31.28	37.98	59.07	74.00	-14.93 peak
3 p	5180.000	18.56	33.96	31.30	77.79	99.01	68.20	30.81 peak

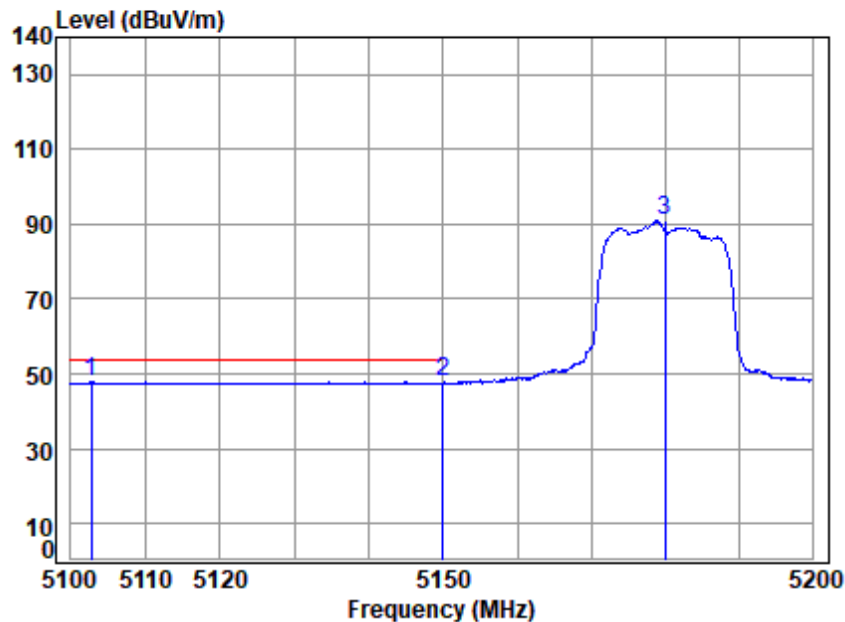


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Shenzhen Branch

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Test Mode: 01; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

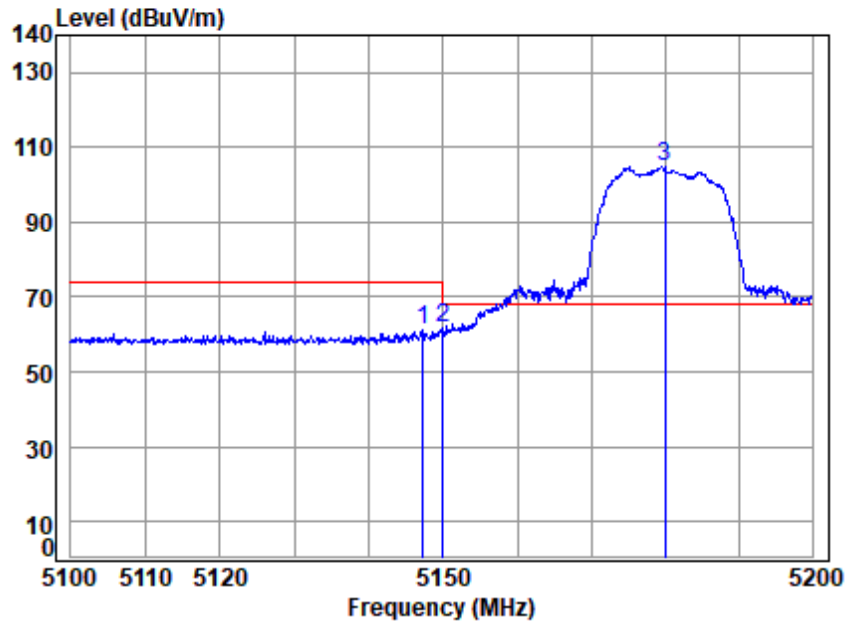


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 03293TL\03294TL
 Mode : 5180 Band edge
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5102.773	18.34	33.99	31.26	26.94	48.01	54.00	-5.99	Average
2 5149.980	18.47	33.90	31.28	26.84	47.93	54.00	-6.07	Average
3 5180.000	18.56	33.96	31.30	69.58	90.80	-----	-----	Average



Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

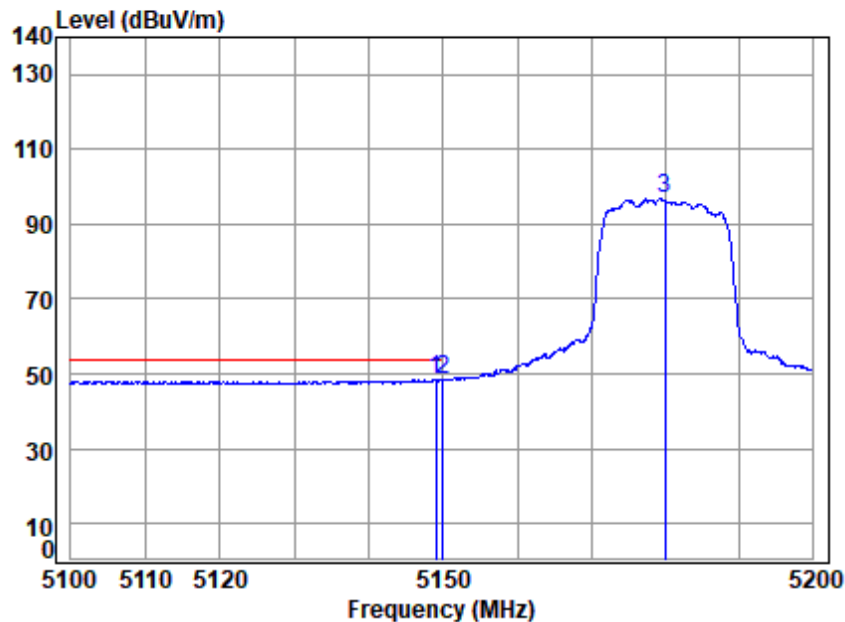


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5147.258	18.46	33.91	31.28	40.38	61.47	74.00	-12.53 Peak
2	5149.980	18.47	33.90	31.28	40.76	61.85	74.00	-12.15 Peak
3 p	5180.000	18.56	33.96	31.30	83.72	104.94	68.20	36.74 Peak



Test Mode: 01; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

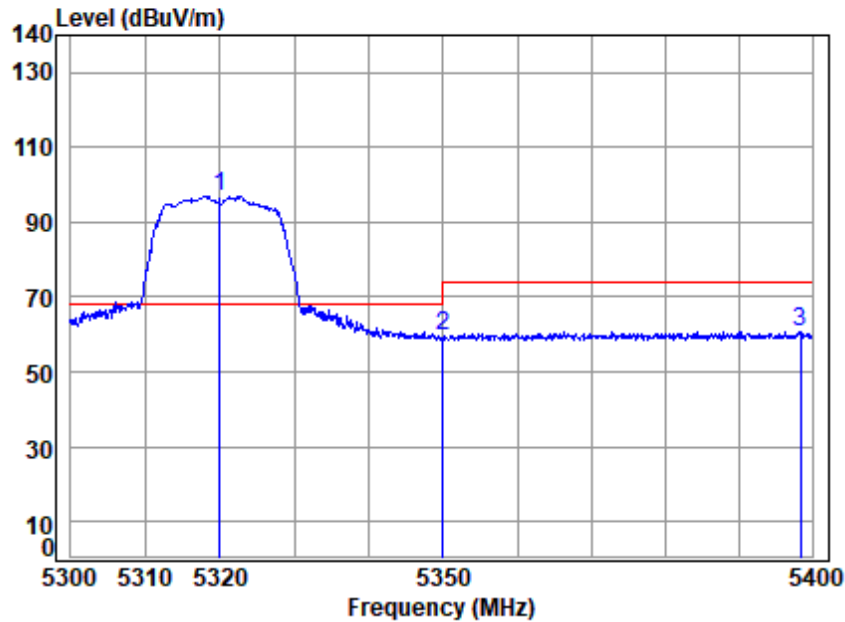


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5180 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	5149.057	18.47	33.90	31.28	27.47	48.56	54.00	-5.44 Average
2	5149.980	18.47	33.90	31.28	27.46	48.55	54.00	-5.45 Average
3	5180.000	18.56	33.96	31.30	75.53	96.75	-----	----- Average



Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 03293TL\03294TL
 Mode : 5320 Band edge
 : 5G WIFI 11A

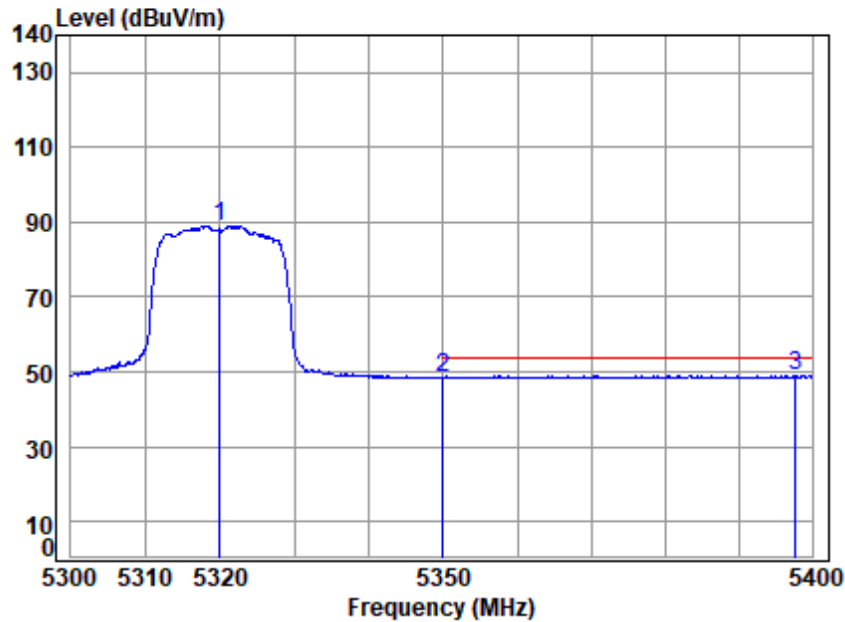
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5320.000	18.94	34.28	31.37	75.28	97.13	68.20	28.93	peak
2	5350.020	19.03	34.40	31.39	37.49	59.53	74.00	-14.47	peak
3	5398.486	19.16	34.59	31.41	38.59	60.93	74.00	-13.07	peak



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Test Mode: 02; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5320 Band edge
: 5G WIFI 11A

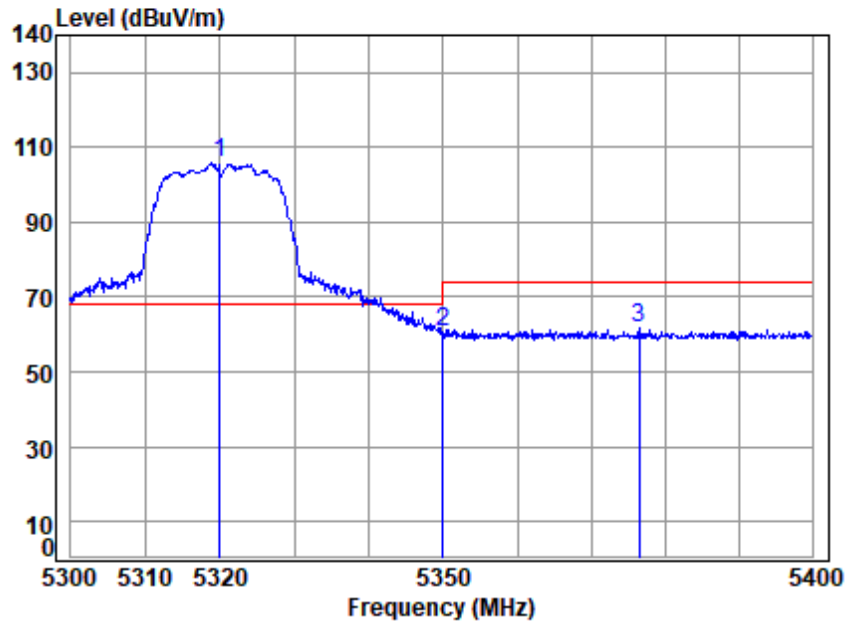
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5320.000	18.94	34.28	31.37	67.20	89.05	-----	-----	Average
2 5350.020	19.03	34.40	31.39	26.66	48.70	54.00	-5.30	Average
3 q 5397.780	19.16	34.59	31.41	26.74	49.08	54.00	-4.92	Average



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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5320 Band edge
: 5G WIFI 11A

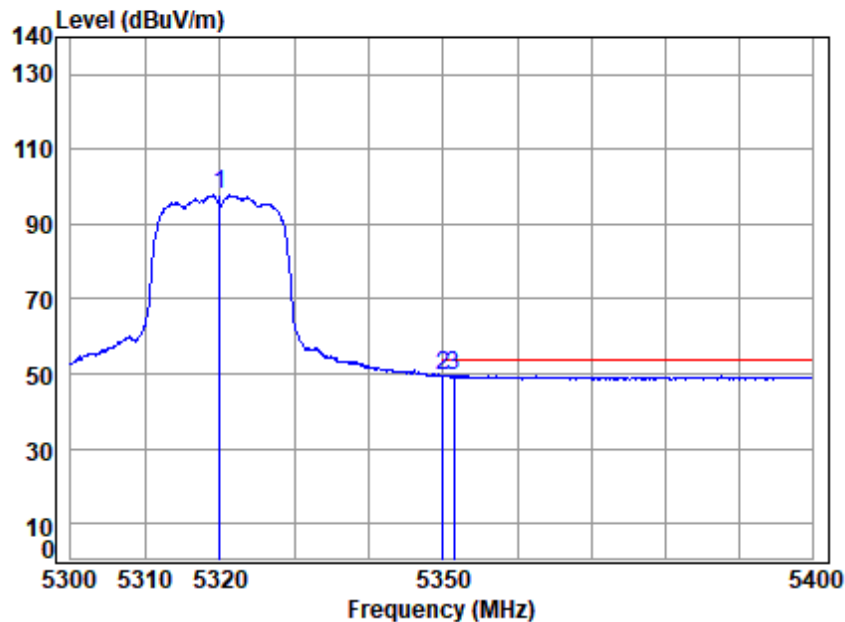
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5320.000	18.94	34.28	31.37	84.03	105.88	68.20	37.68	Peak
2 5350.020	19.03	34.40	31.39	38.87	60.91	74.00	-13.09	Peak
3 5376.533	19.10	34.51	31.40	39.59	61.80	74.00	-12.20	Peak



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Test Mode: 02; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 03293TL\03294TL
 Mode : 5320 Band edge
 : 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	18.94	34.28	31.37	75.87	97.72	-----	----- Average
2	5350.020	19.03	34.40	31.39	27.61	49.65	54.00	-4.35 Average
3 q	5351.467	19.03	34.41	31.39	27.60	49.65	54.00	-4.35 Average



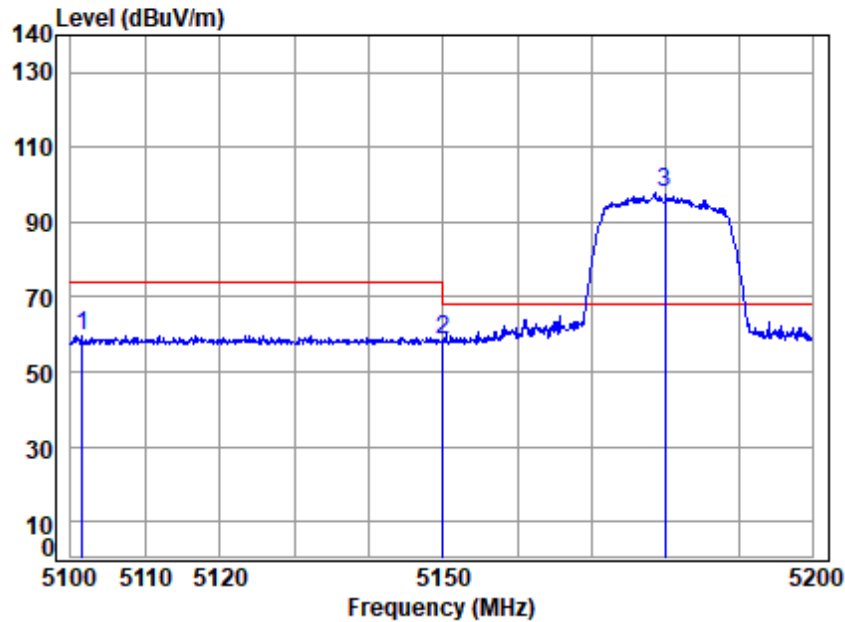
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Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

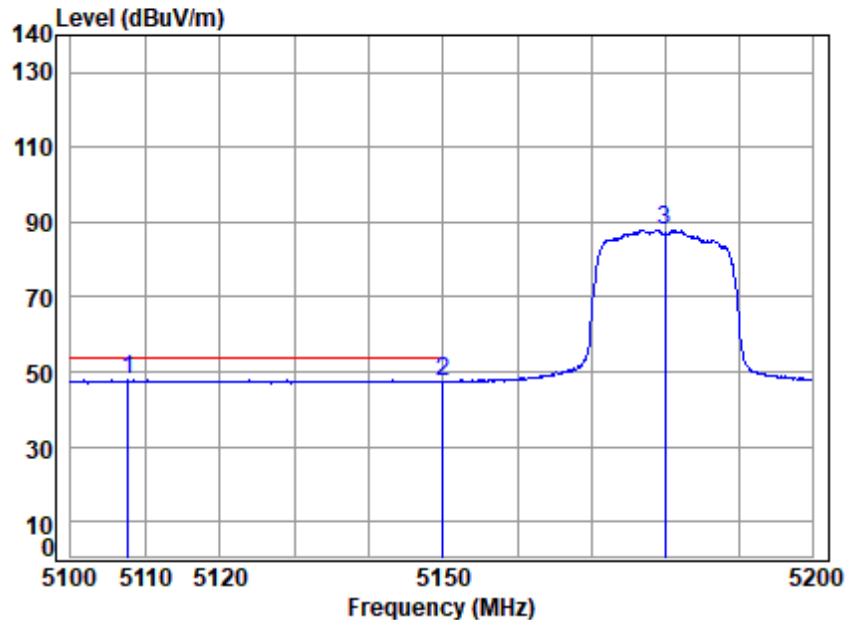


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5101.486	18.33	34.00	31.26	38.60	59.67	74.00	-14.33 peak
2	5149.980	18.47	33.90	31.28	37.26	58.35	74.00	-15.65 peak
3 p	5180.000	18.56	33.96	31.30	76.48	97.70	68.20	29.50 peak



Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

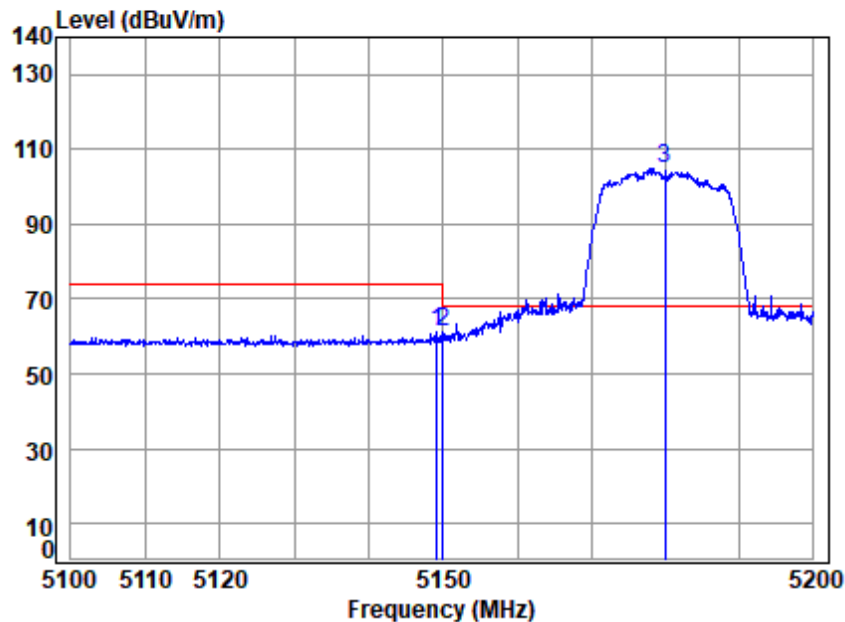


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5107.730	18.35	33.98	31.26	26.82	47.89	54.00	-6.11	Average
2 5149.980	18.47	33.90	31.28	26.48	47.57	54.00	-6.43	Average
3 5180.000	18.56	33.96	31.30	66.81	88.03	-----	-----	Average



Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

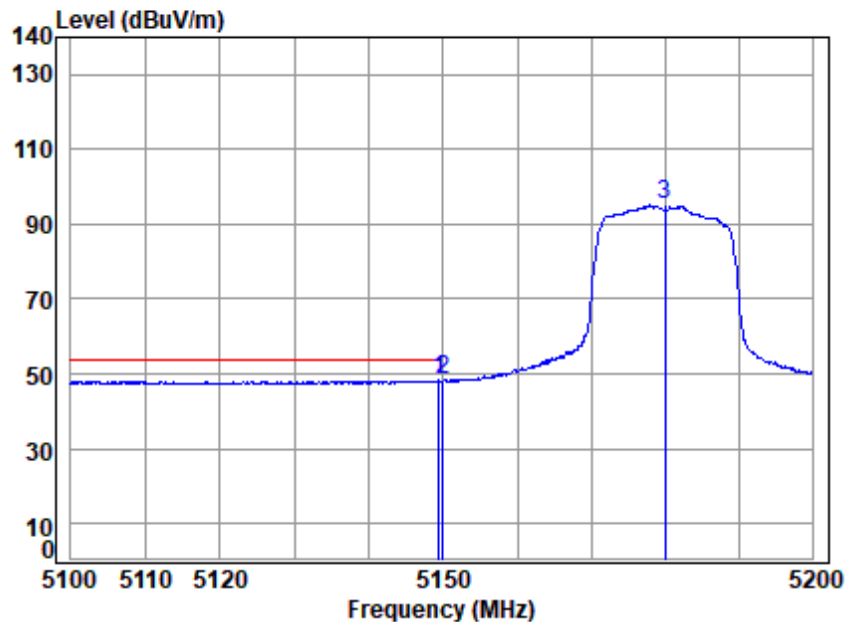


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.157	18.47	33.90	31.28	40.10	61.19	74.00	-12.81 Peak
2	5149.980	18.47	33.90	31.28	40.27	61.36	74.00	-12.64 Peak
3 p	5180.000	18.56	33.96	31.30	83.82	105.04	68.20	36.84 Peak



Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

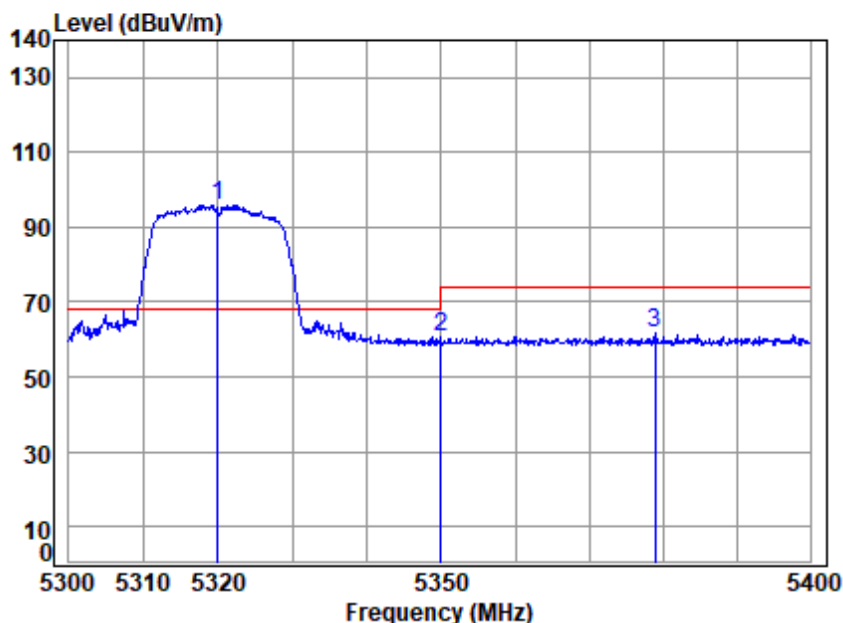


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5180 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5149.458	18.47	33.90	31.28	27.25	48.34	54.00	-5.66 Average
2 q	5149.980	18.47	33.90	31.28	27.35	48.44	54.00	-5.56 Average
3	5180.000	18.56	33.96	31.30	73.85	95.07	-----	----- Average



Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

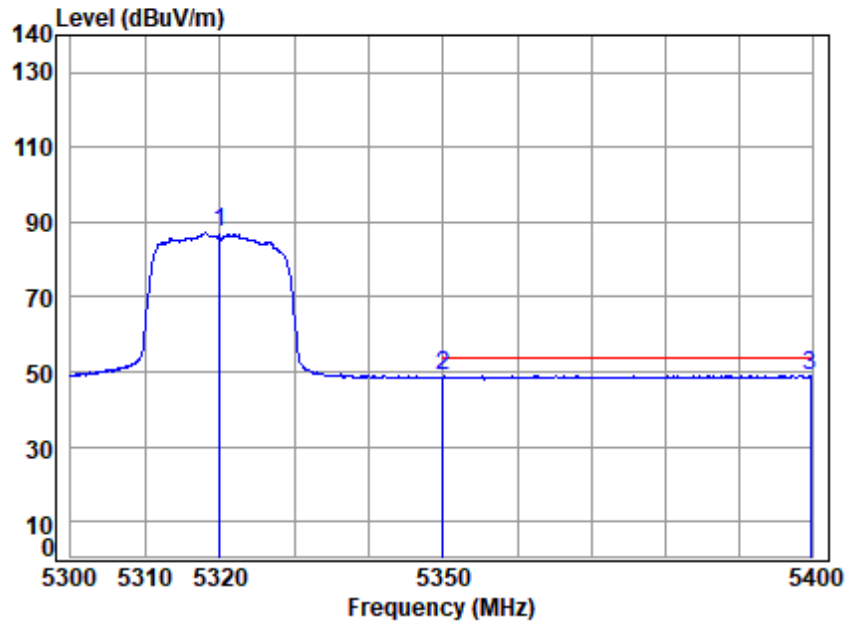


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 03293TL\03294TL
 Mode : 5320 Band edge
 : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1 p 5320.000	18.94	34.28	31.37	74.17	96.02	68.20	27.82	peak	
2 5350.020	19.03	34.40	31.39	38.57	60.61	74.00	-13.39	peak	
3 5378.945	19.11	34.52	31.40	39.42	61.65	74.00	-12.35	peak	



Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5320 Band edge
: 5G WIFI 11AC20

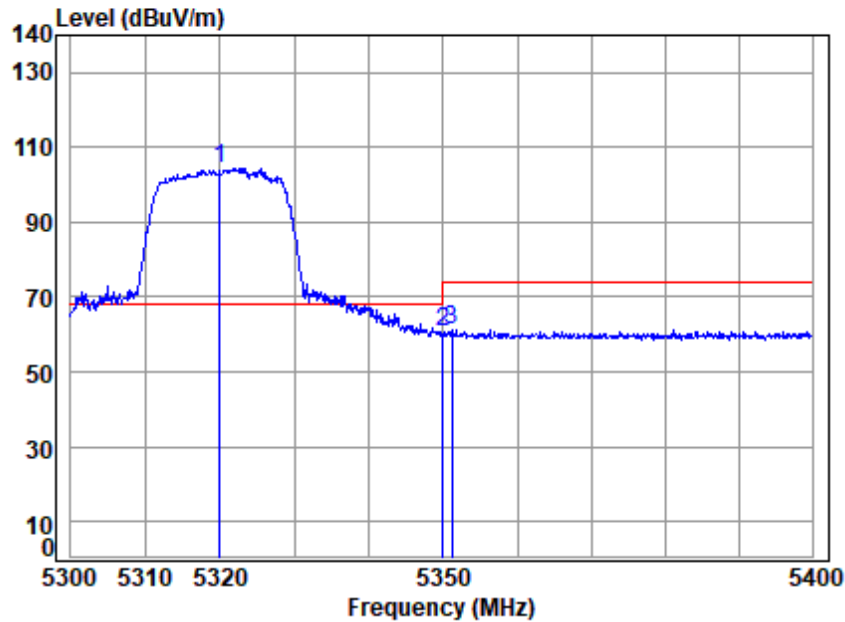
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5320.000	18.94	34.28	31.37	65.60	87.45	-----	-----	Average
2 5350.020	19.03	34.40	31.39	26.71	48.75	54.00	-5.25	Average
3 q 5399.798	19.16	34.60	31.41	26.64	48.99	54.00	-5.01	Average



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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5320 Band edge
: 5G WIFI 11AC20

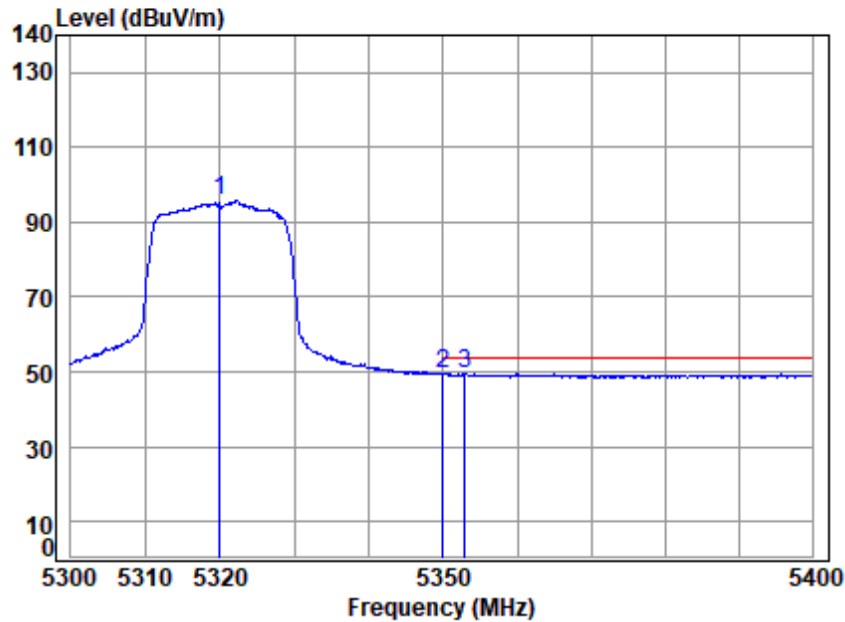
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5320.000	18.94	34.28	31.37	82.73	104.58	68.20	36.38	Peak
2 5350.020	19.03	34.40	31.39	38.43	60.47	74.00	-13.53	Peak
3 5351.167	19.03	34.40	31.39	39.16	61.20	74.00	-12.80	Peak



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No.1 Workshop, M-10, Middle Section, Science & Technology Park, Nanshan District, Shenzhen, Guangdong, China 518057 t (86-755) 26012053 f (86-755) 26710594 www.sgs.com.cn
中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

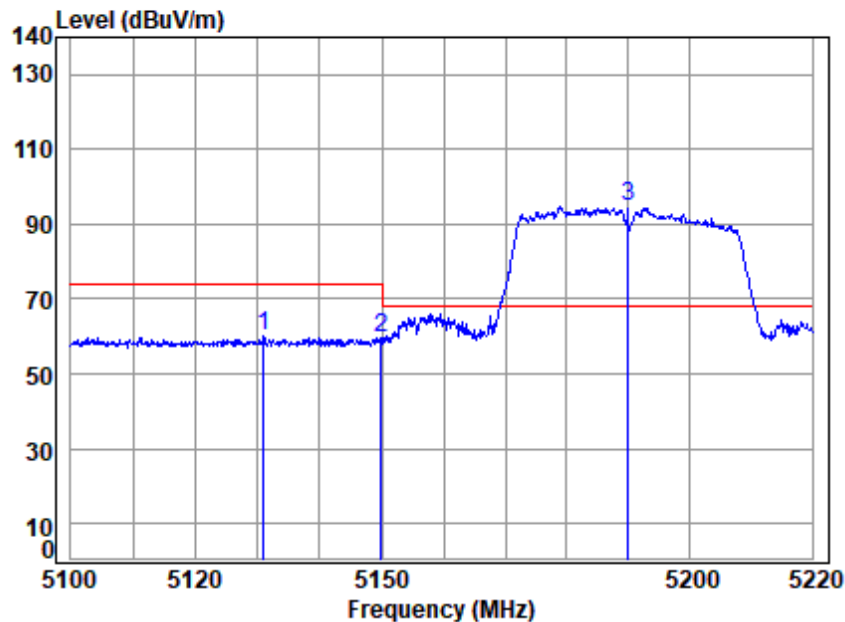


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5320 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5320.000	18.94	34.28	31.37	73.84	95.69	-----	----- Average
2	5350.020	19.03	34.40	31.39	27.33	49.37	54.00	-4.63 Average
3 q	5352.967	19.03	34.41	31.39	27.40	49.45	54.00	-4.55 Average



Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

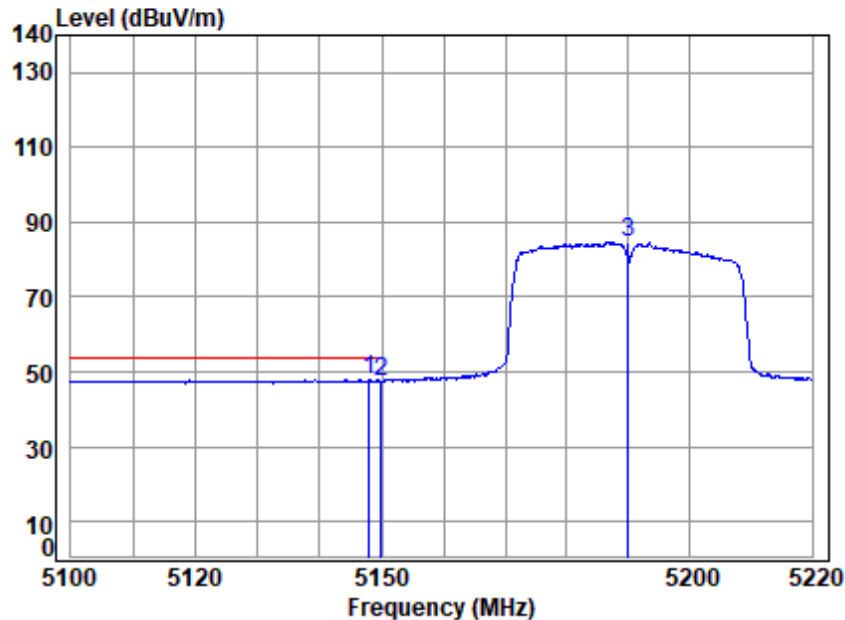


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5130.932	18.42	33.94	31.27	38.84	59.93	74.00	-14.07 peak
2	5149.980	18.47	33.90	31.28	38.47	59.56	74.00	-14.44 peak
3 p	5190.000	18.58	33.98	31.30	73.41	94.67	68.20	26.47 peak



Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

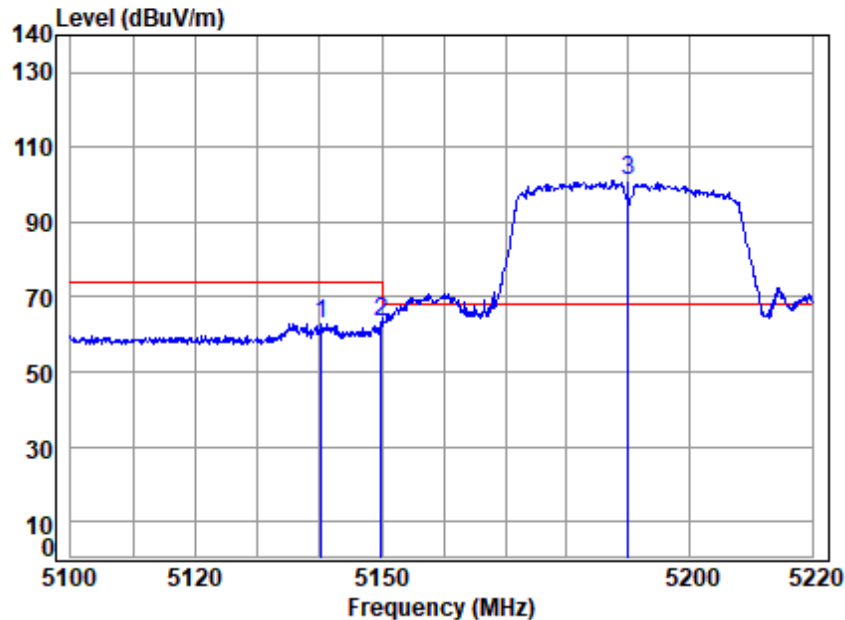


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5148.024	18.47	33.90	31.28	26.70	47.79	54.00	-6.21	Average
2 5149.980	18.47	33.90	31.28	26.50	47.59	54.00	-6.41	Average
3 5190.000	18.58	33.98	31.30	63.28	84.54	-----	-----	Average



Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

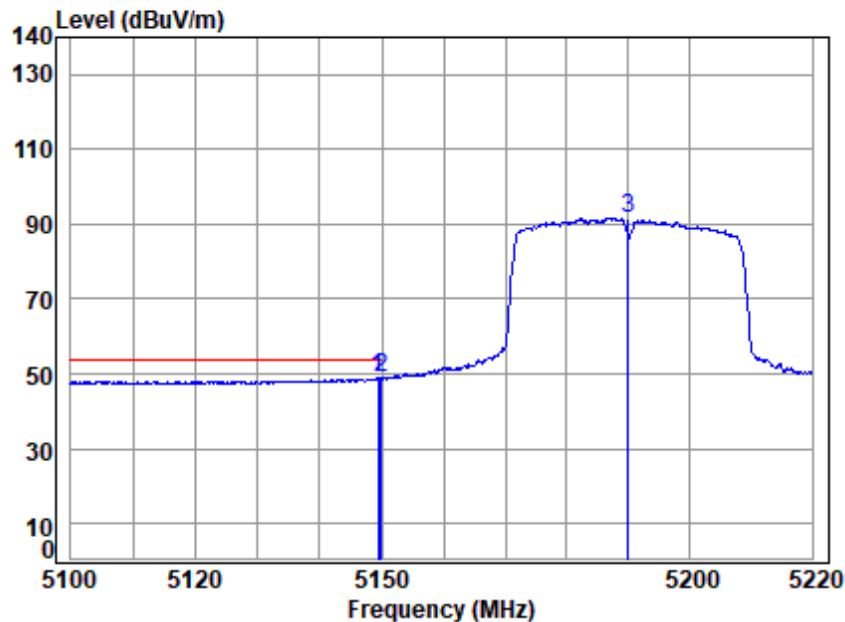


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5140.248	18.44	33.92	31.28	41.97	63.05	74.00	-10.95	Peak
2	5149.980	18.47	33.90	31.28	42.22	63.31	74.00	-10.69	Peak
3 p	5190.000	18.58	33.98	31.30	79.93	101.19	68.20	32.99	Peak



Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

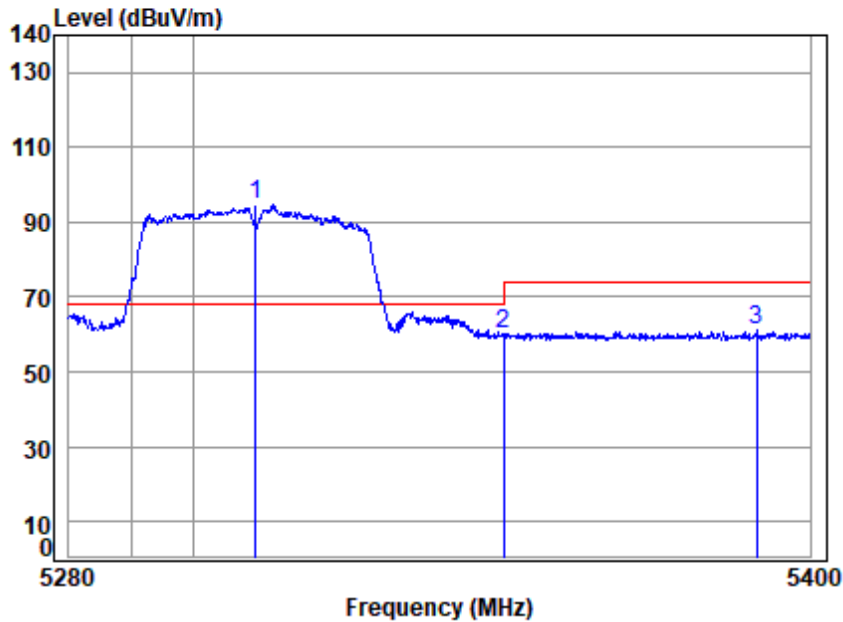


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5190 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5149.461	18.47	33.90	31.28	27.75	48.84	54.00	-5.16 Average
2 q	5149.980	18.47	33.90	31.28	27.90	48.99	54.00	-5.01 Average
3	5190.000	18.58	33.98	31.30	70.29	91.55	-----	----- Average



Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

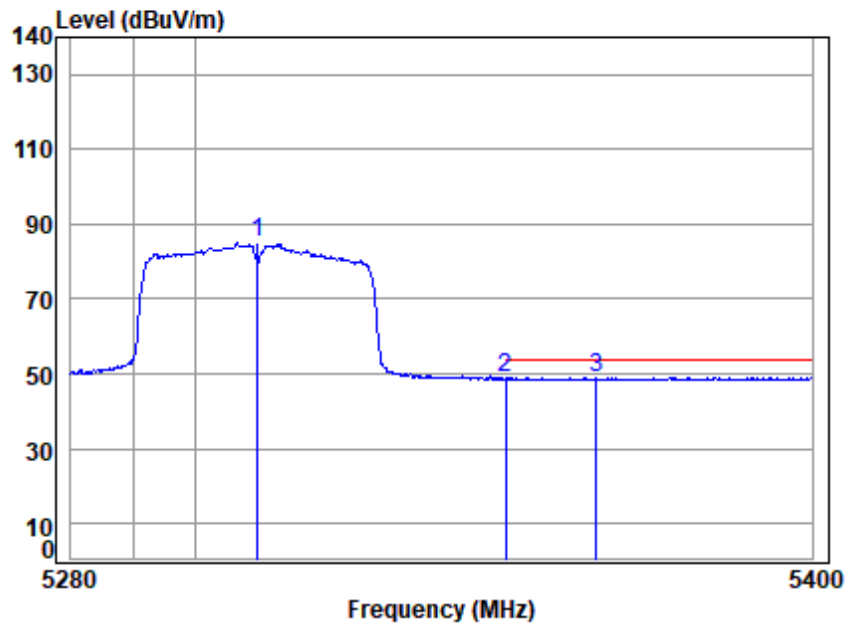


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5310 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5310.000	18.92	34.24	31.36	72.95	94.75	68.20	26.55	peak
2 5350.020	19.03	34.40	31.39	38.26	60.30	74.00	-13.70	peak
3 5391.270	19.14	34.57	31.41	38.78	61.08	74.00	-12.92	peak



Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

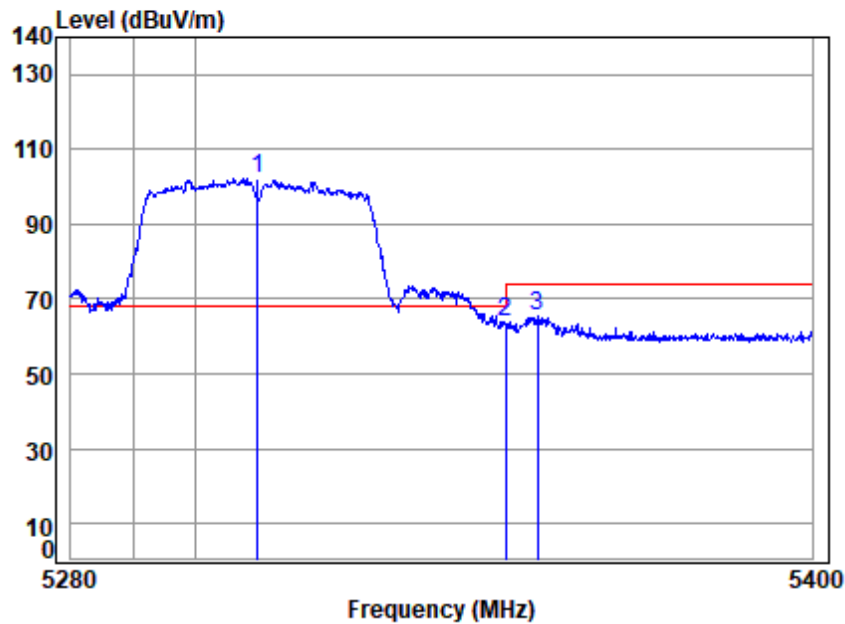


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5310 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5310.000	18.92	34.24	31.36	63.19	84.99	-----	----- Average
2	5350.020	19.03	34.40	31.39	26.72	48.76	54.00	-5.24 Average
3 q	5364.801	19.07	34.46	31.39	26.91	49.05	54.00	-4.95 Average



Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5310 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5310.000	18.92	34.24	31.36	80.57	102.37	68.20	34.17 Peak
2	5350.020	19.03	34.40	31.39	41.70	63.74	74.00	-10.26 Peak
3	5355.165	19.04	34.42	31.39	43.50	65.57	74.00	-8.43 Peak



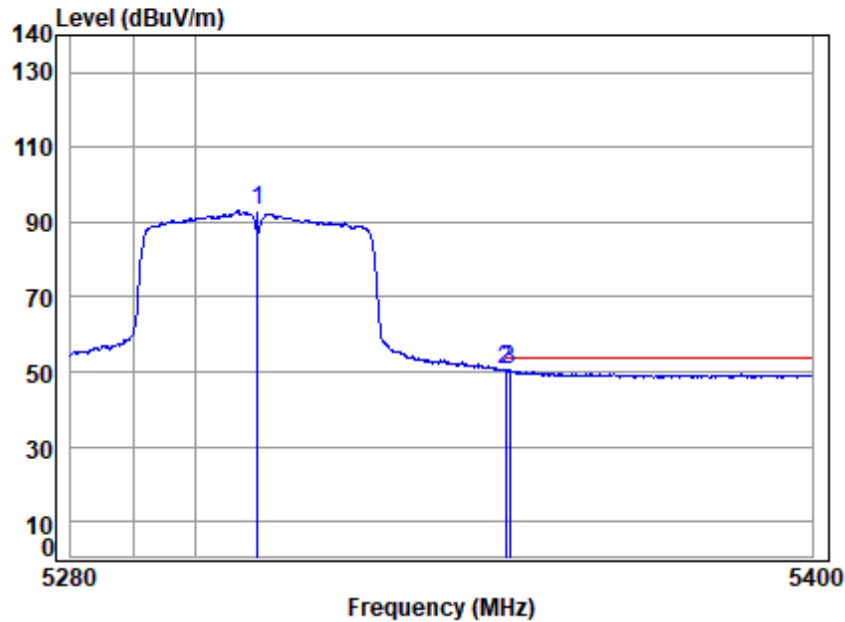
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Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

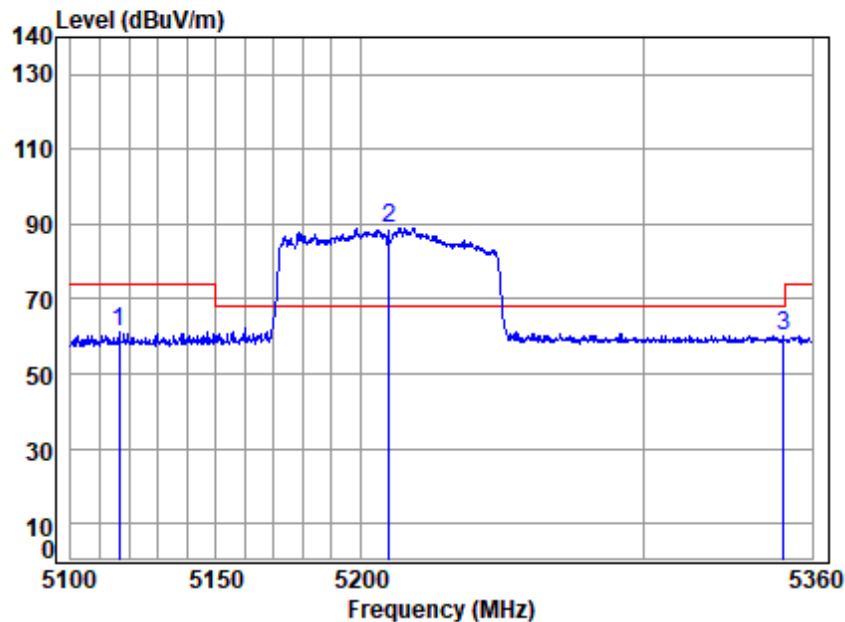


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5310 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5310.000	18.92	34.24	31.36	71.19	92.99	-----	Average
2 q	5350.020	19.03	34.40	31.39	28.38	50.42	54.00	-3.58 Average
3	5350.714	19.03	34.40	31.39	28.30	50.34	54.00	-3.66 Average



Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

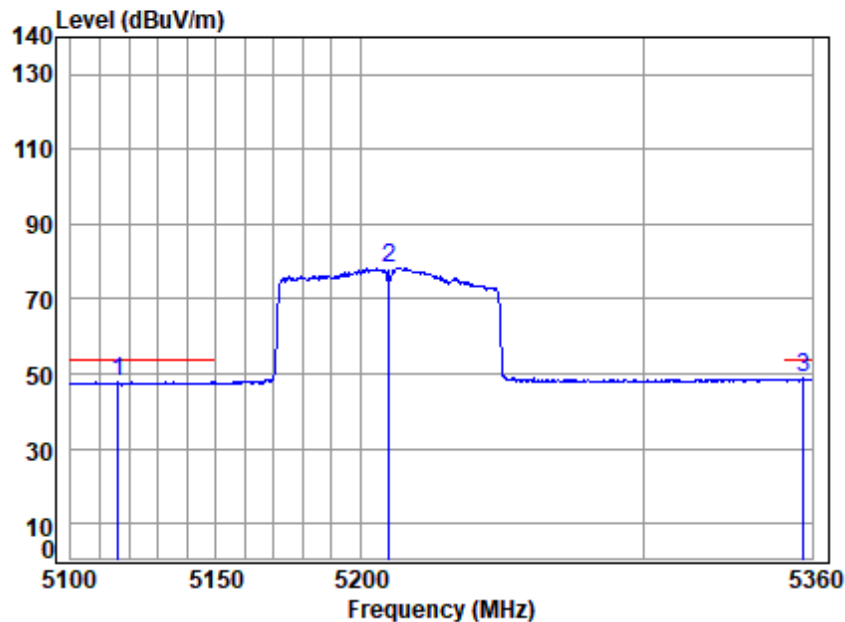


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5116.510	18.38	33.97	31.26	40.17	61.26	74.00	-12.74	peak
2 p	5210.000	18.64	34.02	31.31	67.66	89.01	68.20	20.81	peak
3	5349.882	19.03	34.40	31.39	38.23	60.27	68.20	-7.93	peak



Test Mode: 01; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

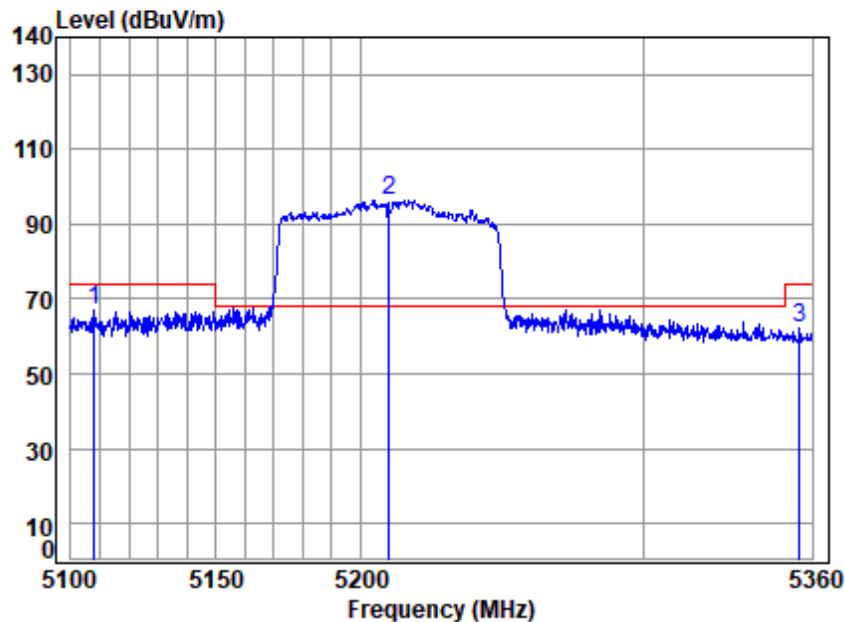


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5116.255	18.38	33.97	31.26	26.74	47.83	54.00	-6.17 Average
2	5210.000	18.64	34.02	31.31	57.00	78.35	-----	----- Average
3 q	5357.069	19.05	34.43	31.39	26.66	48.75	54.00	-5.25 Average



Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

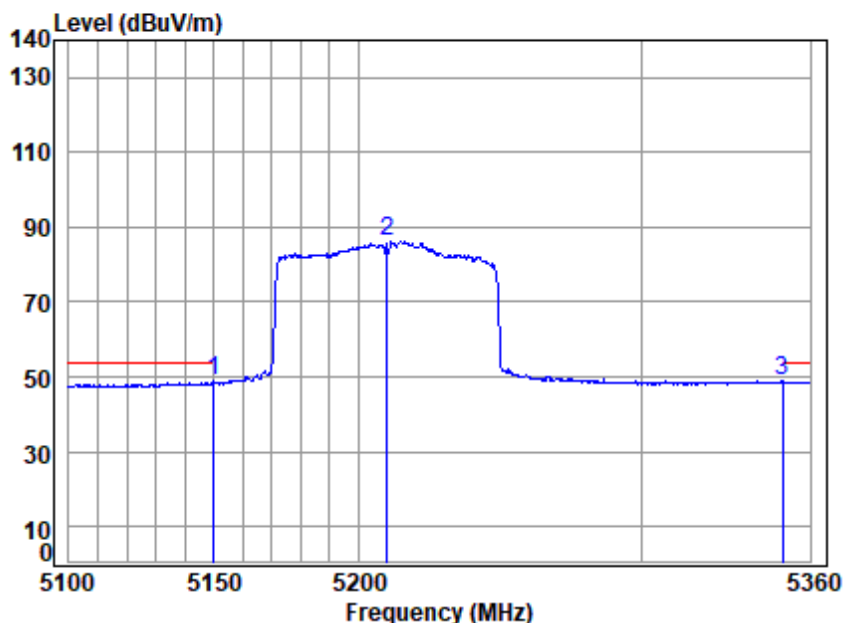


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5108.121	18.35	33.98	31.26	45.86	66.93	74.00	-7.07	Peak
2 p	5210.000	18.64	34.02	31.31	75.05	96.40	68.20	28.20	Peak
3	5355.471	19.04	34.42	31.39	40.26	62.33	74.00	-11.67	Peak



Test Mode: 01; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

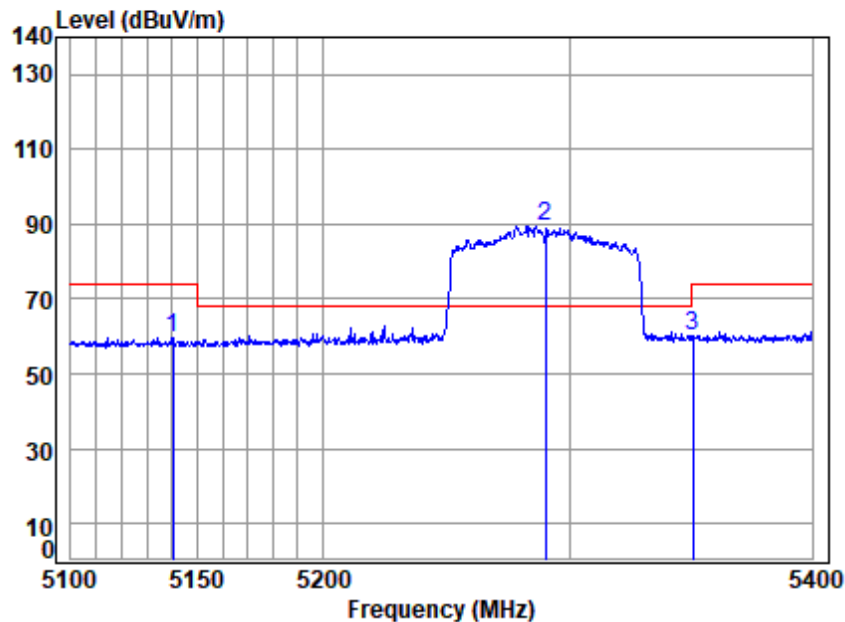


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5210 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 q	5149.947	18.47	33.90	31.28	27.80	48.89	54.00	-5.11 Average
2	5210.000	18.64	34.02	31.31	64.83	86.18	-----	----- Average
3	5350.148	19.03	34.40	31.39	26.81	48.85	54.00	-5.15 Average



Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

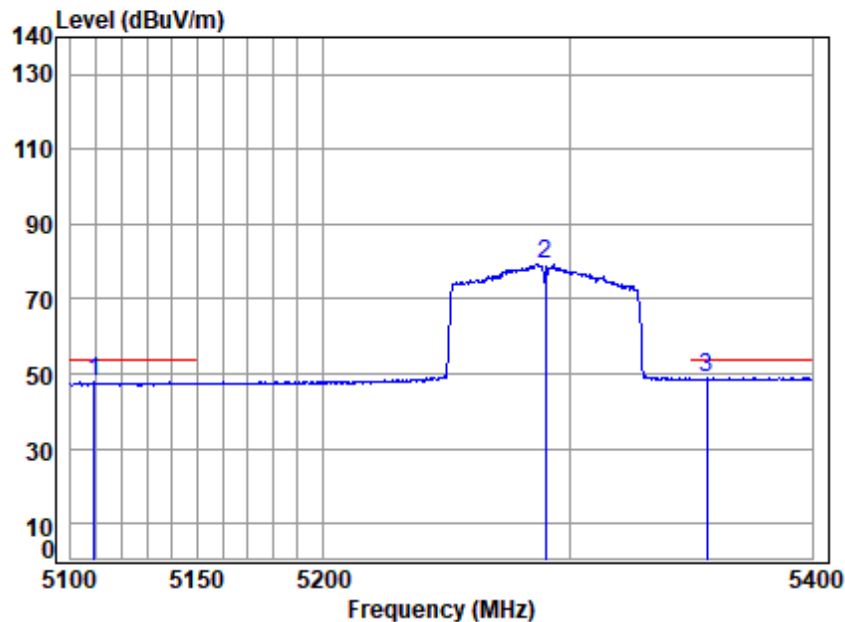


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5290 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5140.387	18.44	33.92	31.28	38.46	59.54	74.00	-14.46 peak
2 p	5290.000	18.86	34.18	31.35	67.84	89.53	68.20	21.33 peak
3	5350.535	19.03	34.40	31.39	38.20	60.24	74.00	-13.76 peak



Test Mode: 02; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

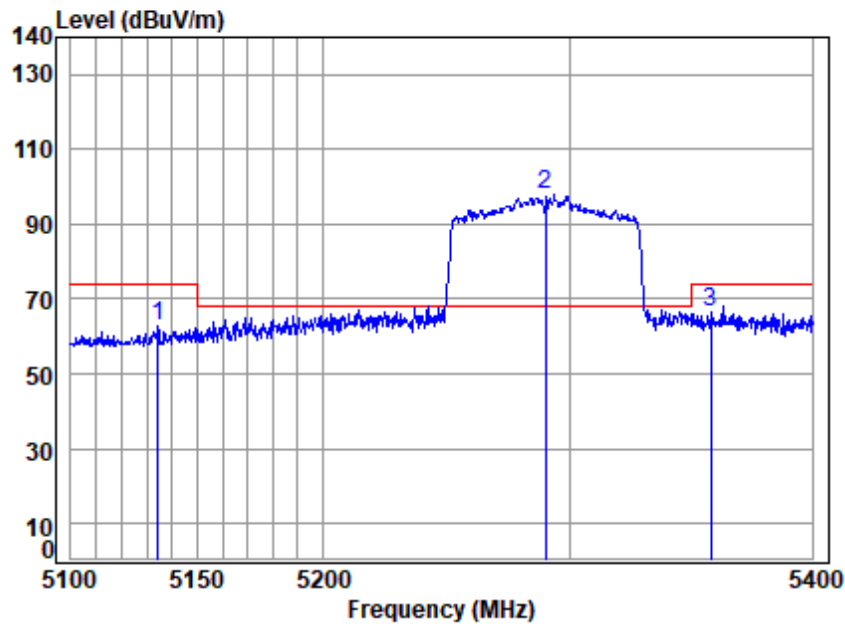


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 03293TL\03294TL
 Mode : 5290 Band edge
 : 5G WIFI 11AC80

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5109.337	18.36	33.98	31.26	26.69	47.77	54.00	-6.23	Average
2	5290.000	18.86	34.18	31.35	57.65	79.34	-----	-----	Average
3 q	5356.348	19.04	34.43	31.39	26.68	48.76	54.00	-5.24	Average



Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

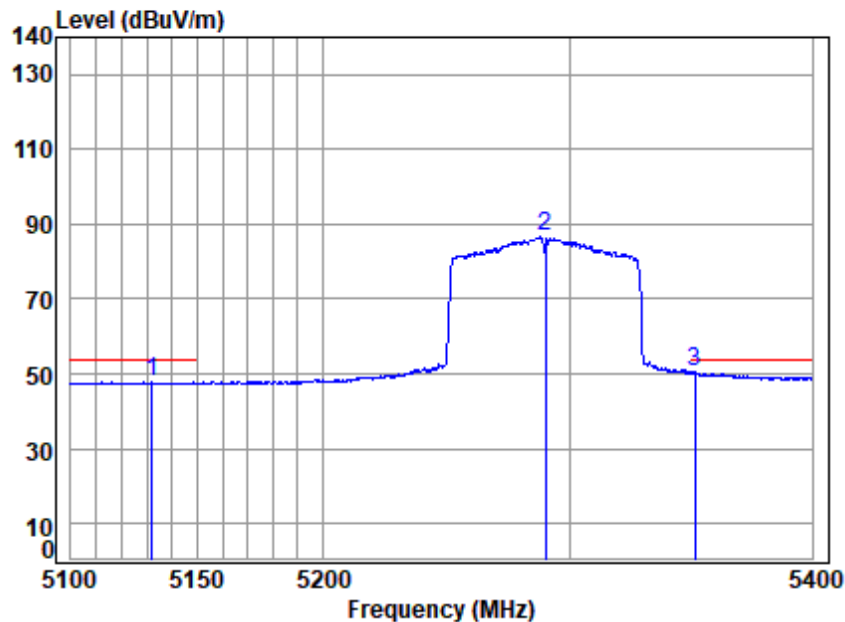


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5290 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5134.514	18.43	33.93	31.27	41.50	62.59	74.00	-11.41 Peak
2 p	5290.000	18.86	34.18	31.35	76.07	97.76	68.20	29.56 Peak
3	5358.186	19.05	34.43	31.39	44.42	66.51	74.00	-7.49 Peak



Test Mode: 02; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

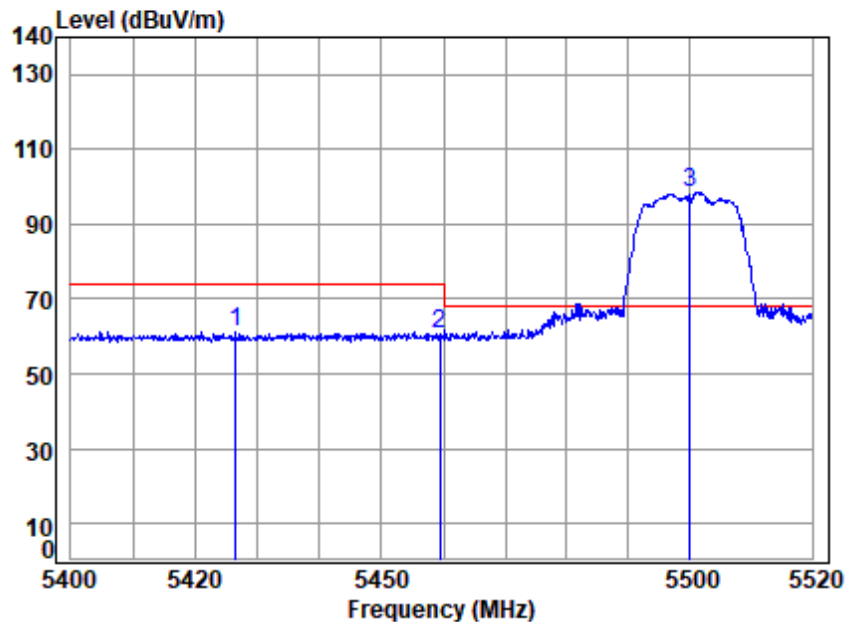


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5290 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5131.874	18.42	33.94	31.27	26.81	47.90	54.00	-6.10 Average
2	5290.000	18.86	34.18	31.35	64.93	86.62	-----	----- Average
3 q	5351.452	19.03	34.41	31.39	28.60	50.65	54.00	-3.35 Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

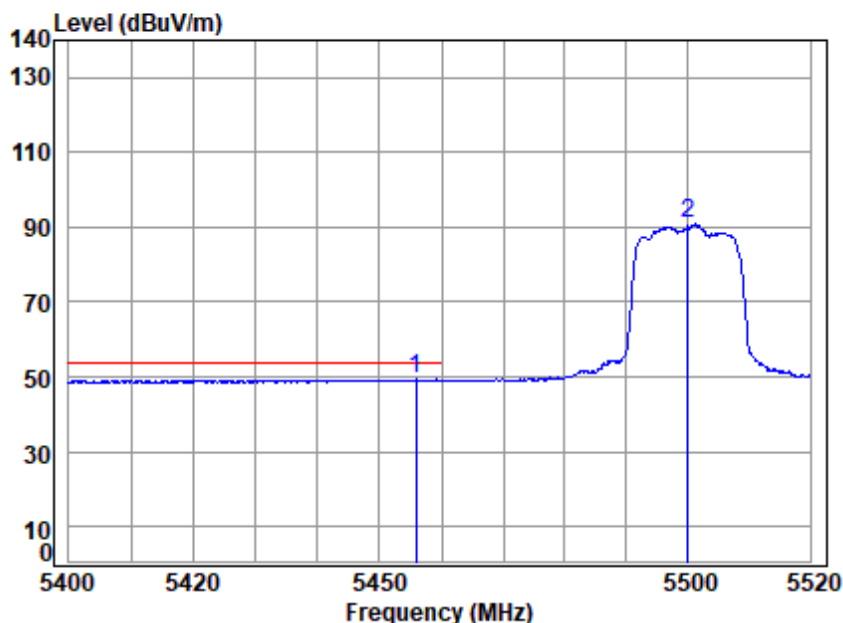


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5500 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5426.532	19.23	34.65	31.42	38.78	61.24	74.00	-12.76	peak
2	5459.430	19.32	34.66	31.44	38.00	60.54	74.00	-13.46	peak
3 p	5500.000	19.43	34.50	31.46	76.22	98.69	68.20	30.49	peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

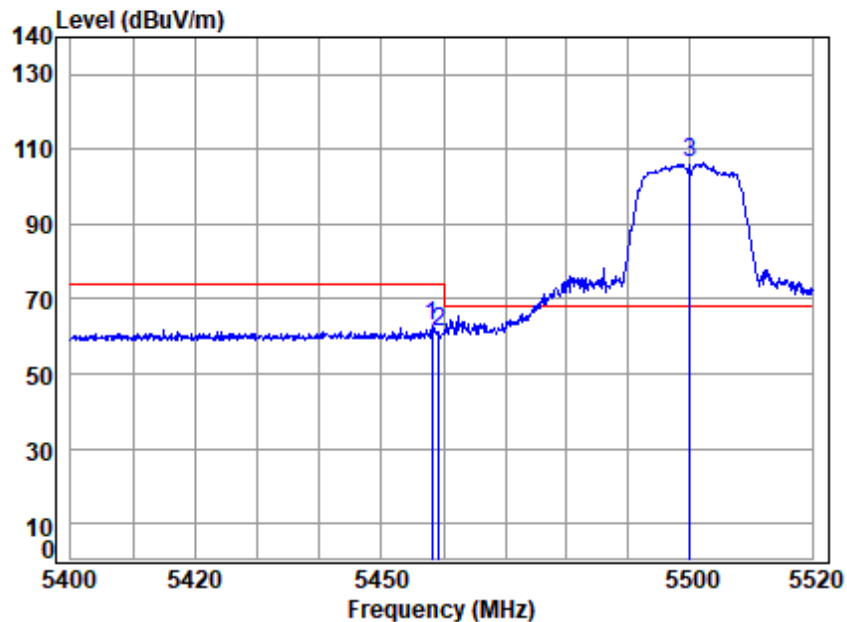


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5500 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5455.832	19.31	34.68	31.44	26.84	49.39	54.00	-4.61	Average
2 5500.000	19.43	34.50	31.46	68.32	90.79	-----	-----	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

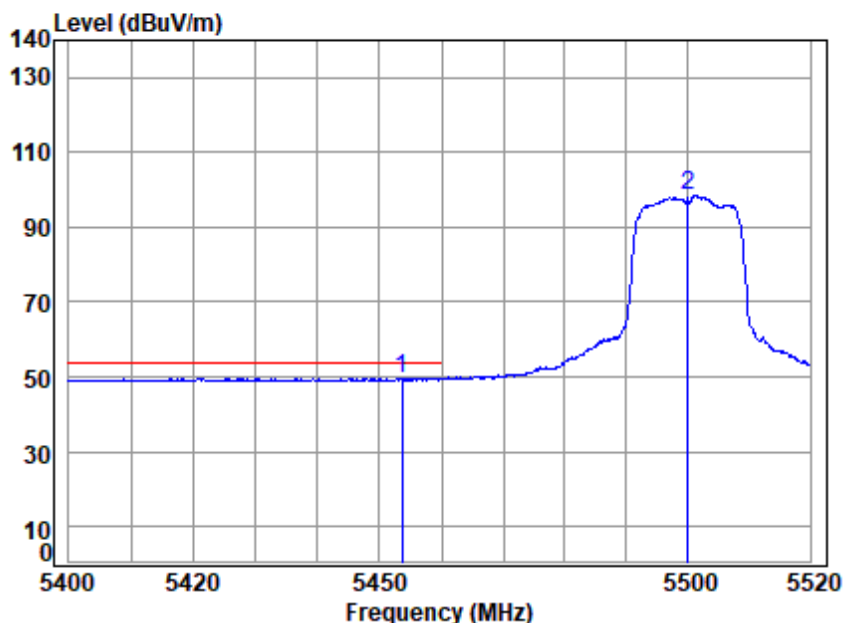


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5500 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5458.110	19.32	34.67	31.44	40.37	62.92	74.00	-11.08	Peak
2	5459.190	19.32	34.66	31.44	38.59	61.13	74.00	-12.87	peak
3 p	5500.000	19.43	34.50	31.46	84.10	106.57	68.20	38.37	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

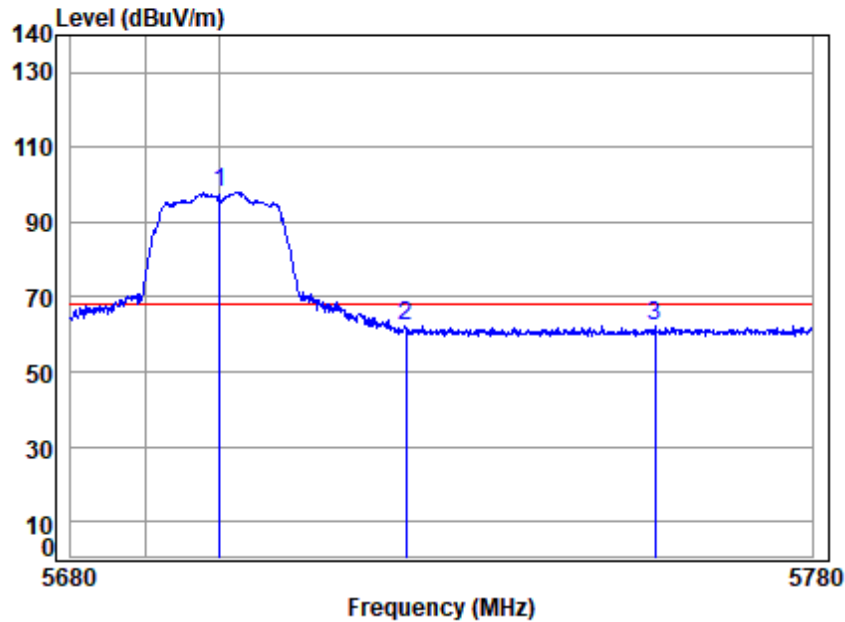


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5500 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5453.674	19.31	34.69	31.44	27.14	49.70	54.00	-4.30	Average
2 5500.000	19.43	34.50	31.46	76.00	98.47	-----	-----	Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5700 Band edge
: 5G WIFI 11A

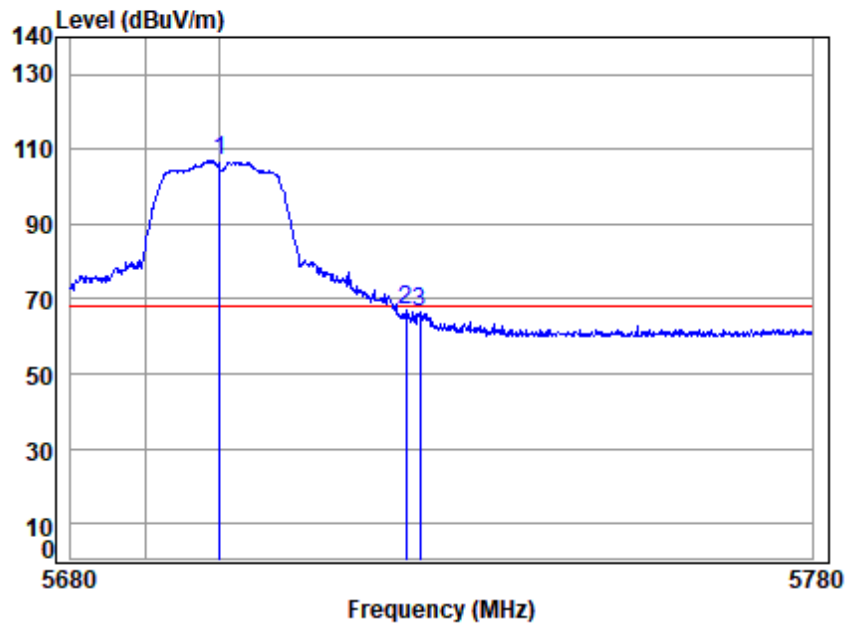
		Cable	Ant	Preamp	Read	Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5700.000	19.79	34.30	31.56	75.66	98.19	68.20	29.99 peak
2	5725.000	19.83	34.25	31.57	39.92	62.43	68.20	-5.77 peak
3	5758.654	19.89	34.22	31.59	39.65	62.17	68.20	-6.03 peak



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中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

Test Mode: 03; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5700 Band edge
: 5G WIFI 11A

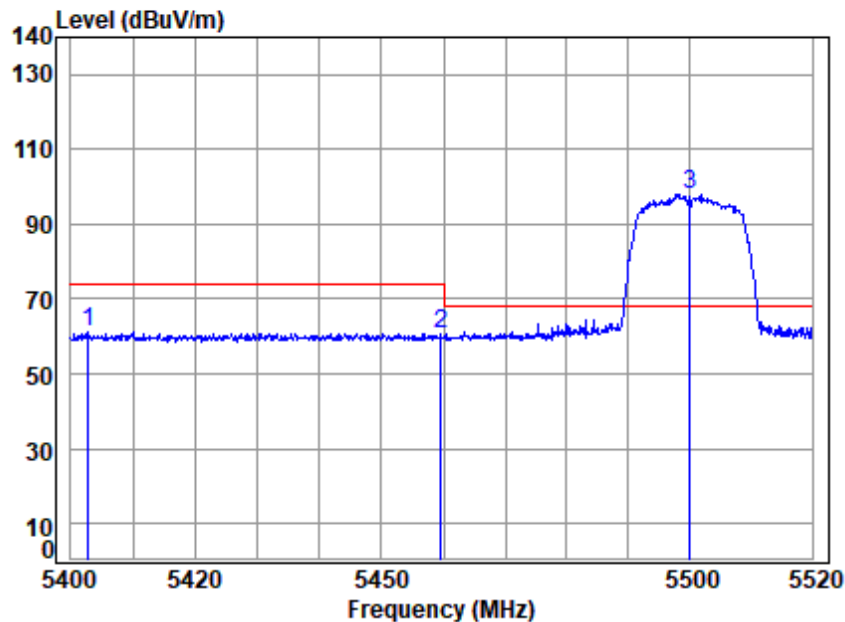
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5700.000	19.79	34.30	31.56	84.61	107.14	68.20	38.94	Peak
2 5725.000	19.83	34.25	31.57	44.72	67.23	68.20	-0.97	Peak
3 5726.883	19.83	34.25	31.57	44.27	66.78	68.20	-1.42	Peak



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Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 20MHz; Channel: Low

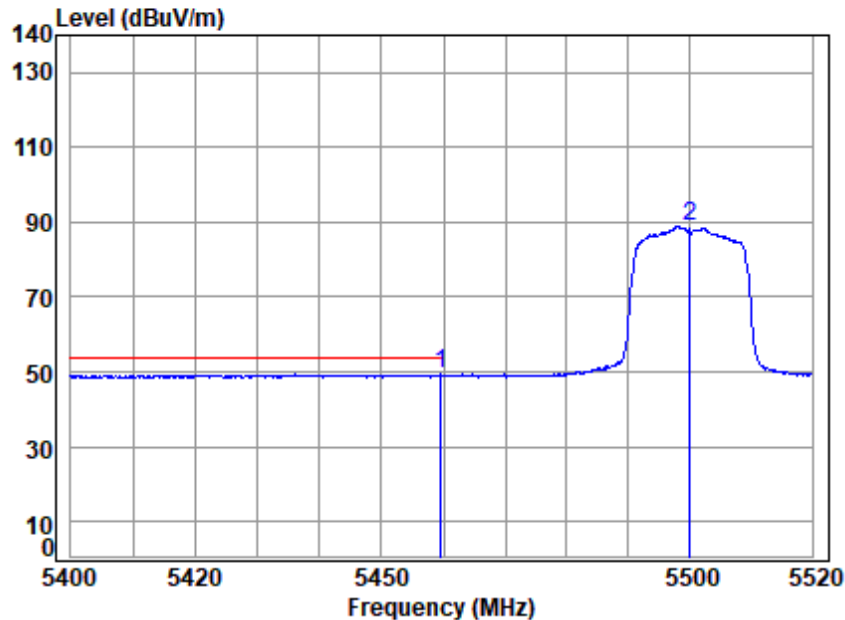


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 03293TL\03294TL
 Mode : 5500 Band edge
 : 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5402.849	19.17	34.61	31.41	38.80	61.17	74.00	-12.83 peak
2	5459.550	19.32	34.66	31.44	37.95	60.49	74.00	-13.51 peak
3 p	5500.000	19.43	34.50	31.46	75.52	97.99	68.20	29.79 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

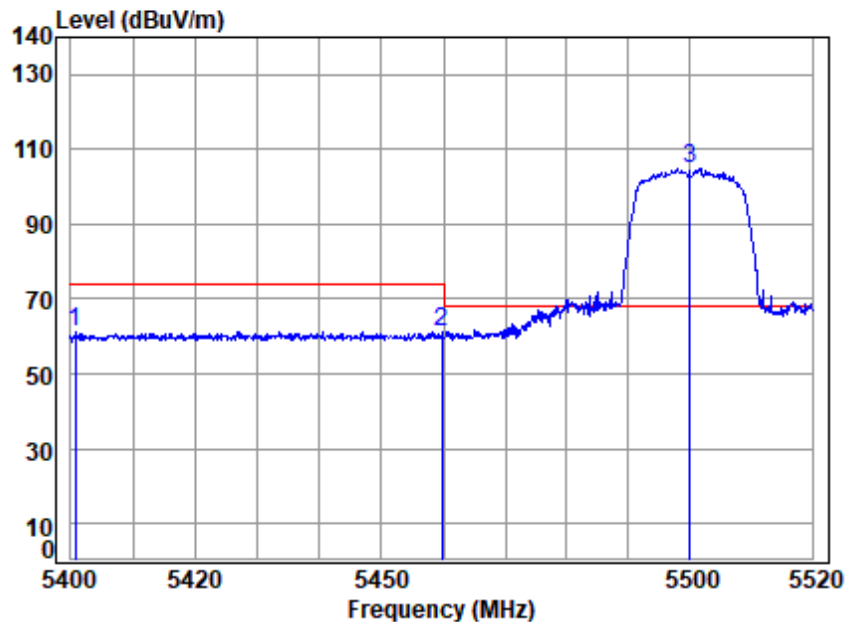


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5500 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5459.550	19.32	34.66	31.44	26.83	49.37	54.00	-4.63	Average
2 5500.000	19.43	34.50	31.46	66.35	88.82	-----	-----	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

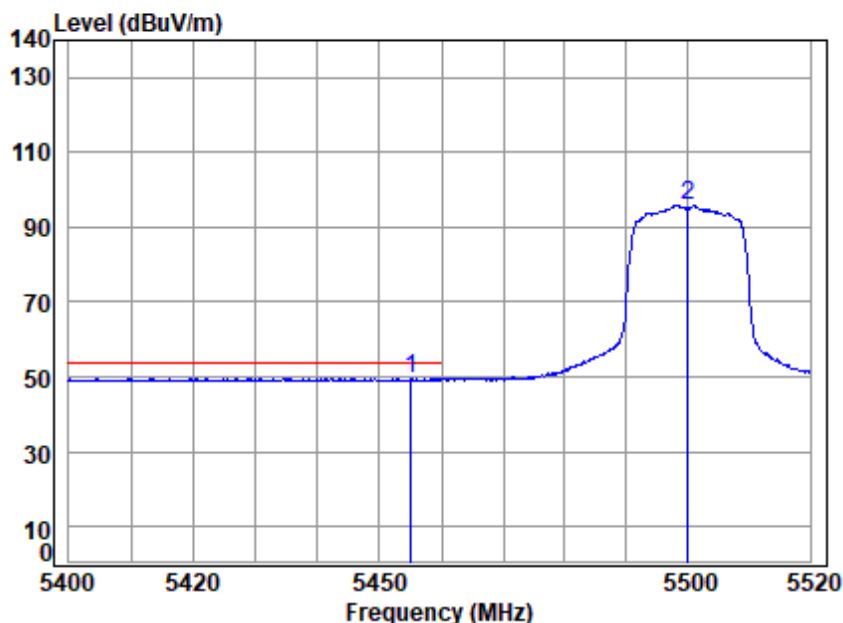


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5500 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5400.712	19.16	34.60	31.41	38.90	61.25	74.00	-12.75	Peak
2	5459.791	19.32	34.66	31.44	38.57	61.11	74.00	-12.89	peak
3 p	5500.000	19.43	34.50	31.46	82.52	104.99	68.20	36.79	Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5500 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5455.112	19.31	34.68	31.44	27.10	49.65	54.00	-4.35	Average
2 5500.000	19.43	34.50	31.46	73.35	95.82	-----	-----	Average



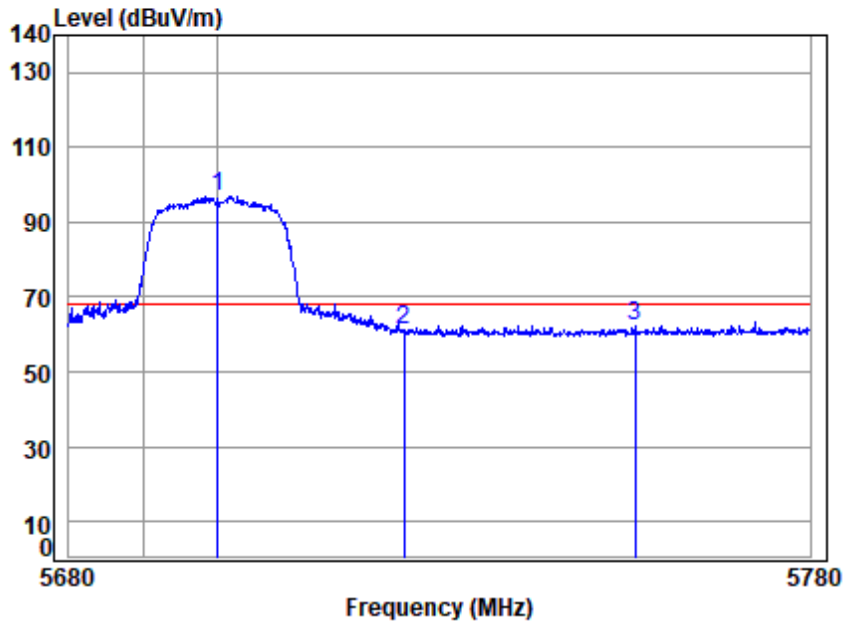
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Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

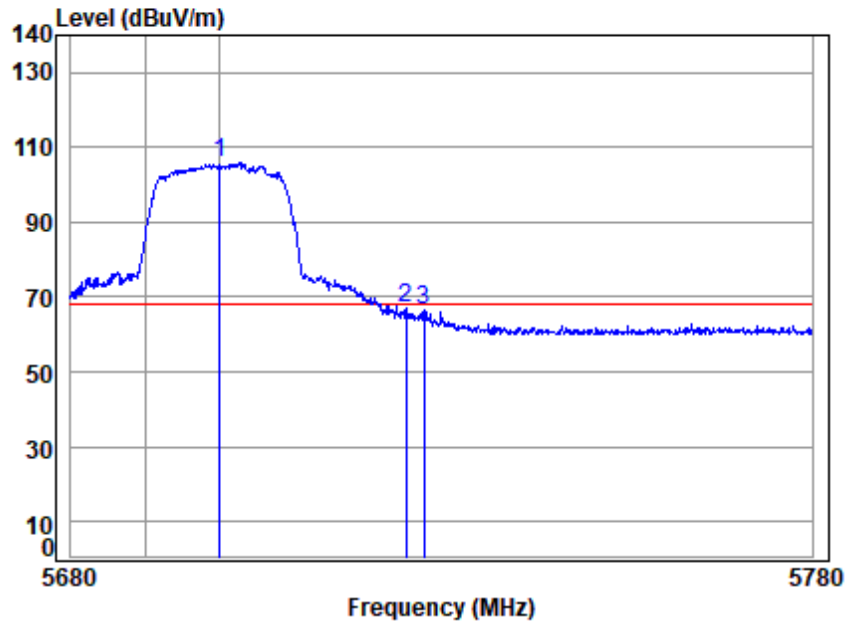


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5700 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5700.000	19.79	34.30	31.56	74.36	96.89	68.20	28.69	peak
2 5725.000	19.83	34.25	31.57	38.83	61.34	68.20	-6.86	peak
3 5756.242	19.89	34.21	31.59	39.93	62.44	68.20	-5.76	peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

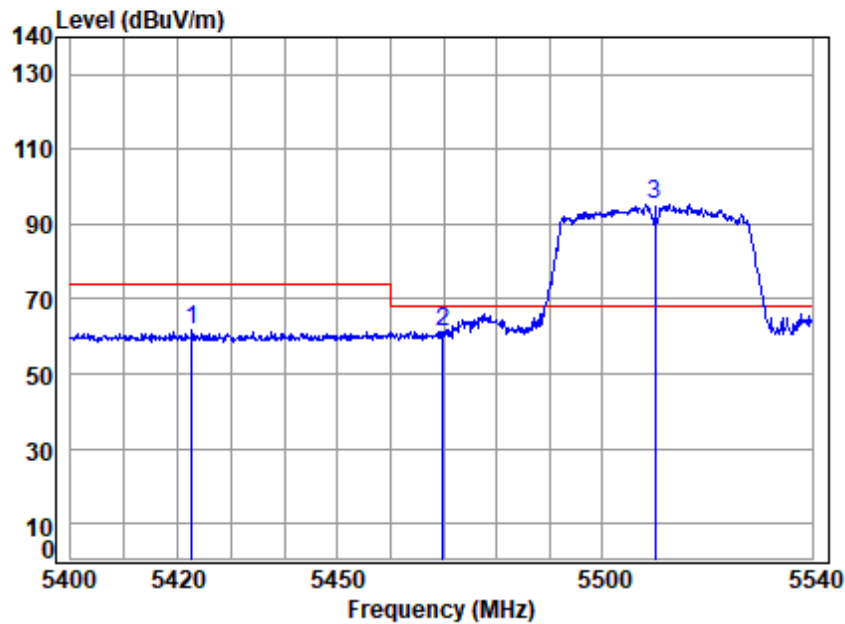


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5700 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5700.000	19.79	34.30	31.56	83.23	105.76	68.20	37.56 Peak
2	5725.000	19.83	34.25	31.57	44.63	67.14	68.20	-1.06 Peak
3	5727.382	19.84	34.25	31.57	44.05	66.57	68.20	-1.63 Peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

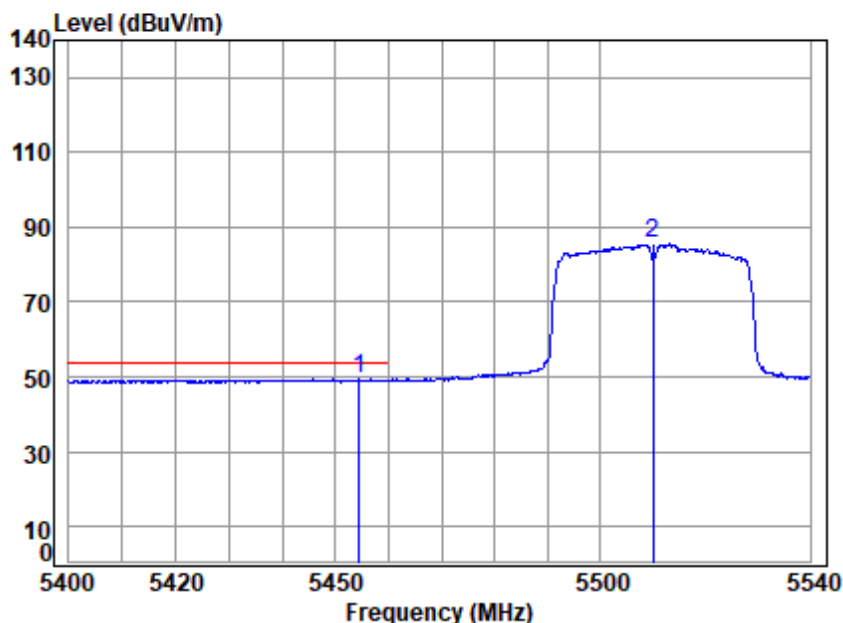


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5510 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5422.715	19.22	34.65	31.42	39.07	61.52	74.00	-12.48 peak
2	5469.832	19.35	34.62	31.45	38.92	61.44	68.20	-6.76 peak
3 p	5510.000	19.45	34.54	31.47	72.87	95.39	68.20	27.19 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

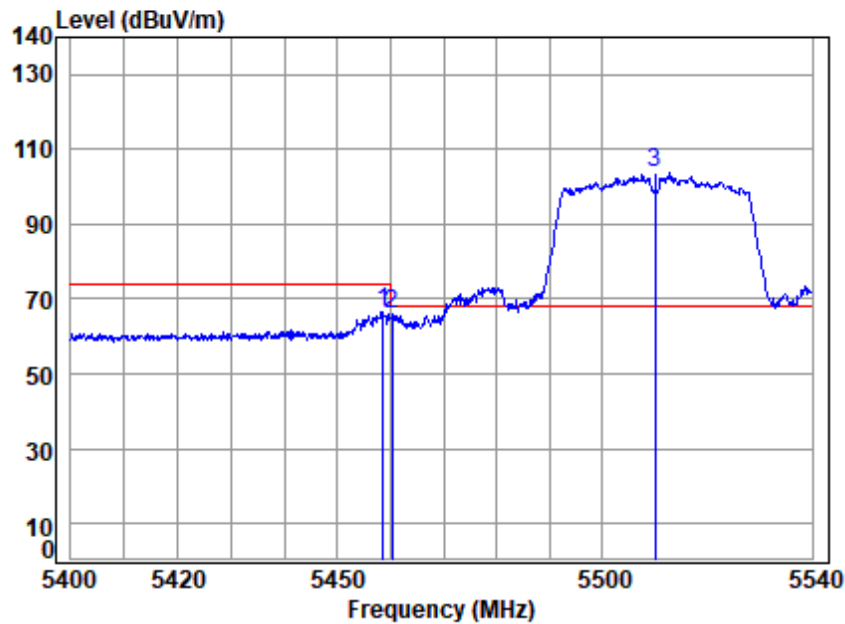


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5510 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5454.454	19.31	34.68	31.44	26.78	49.33	54.00	-4.67	Average
2 5510.000	19.45	34.54	31.47	63.13	85.65	-----	-----	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

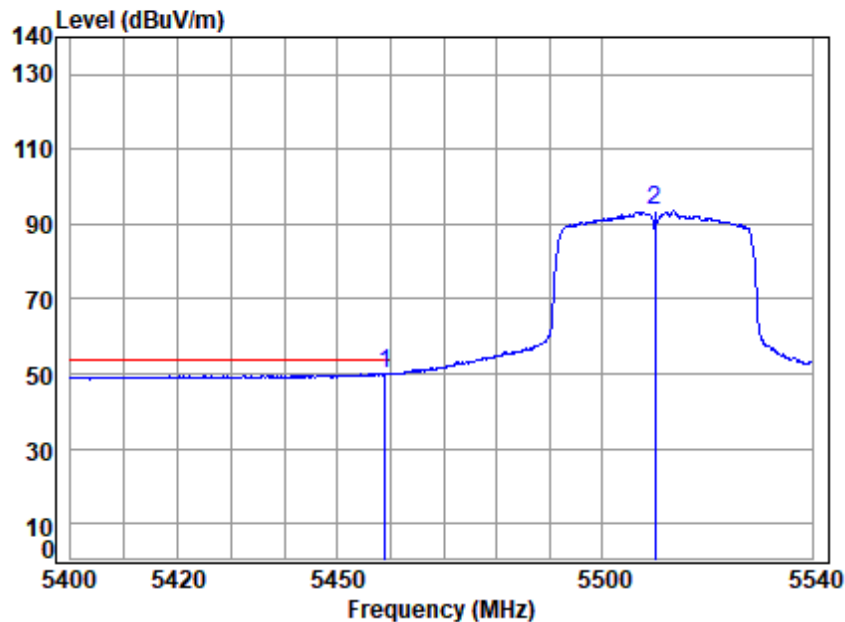


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5510 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5458.643	19.32	34.67	31.44	44.07	66.62	74.00	-7.38 Peak
2	5460.320	19.32	34.66	31.44	43.27	65.81	68.20	-2.39 peak
3 p	5510.000	19.45	34.54	31.47	81.12	103.64	68.20	35.44 Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

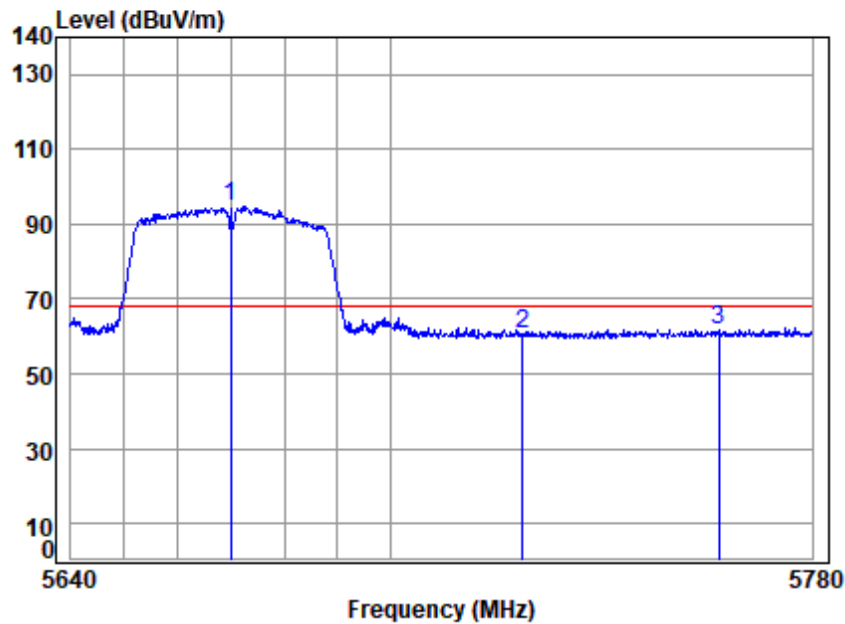


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5510 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5458.923	19.32	34.66	31.44	27.72	50.26	54.00	-3.74	Average
2 5510.000	19.45	34.54	31.47	71.12	93.64	-----	-----	Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

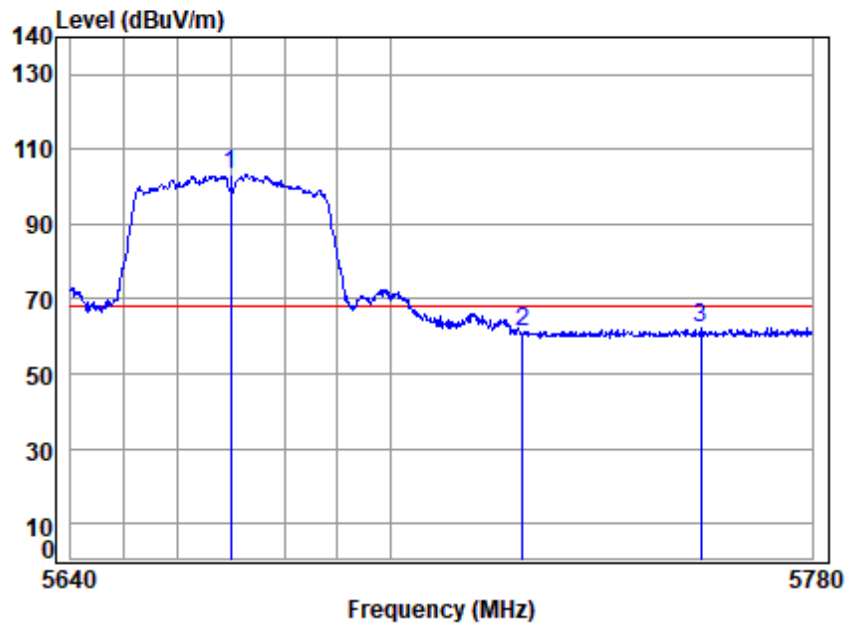


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5670 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5670.000	19.73	34.36	31.54	72.08	94.63	68.20	26.43 peak
2	5725.000	19.83	34.25	31.57	38.35	60.86	68.20	-7.34 peak
3	5762.170	19.90	34.22	31.59	39.40	61.93	68.20	-6.27 peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

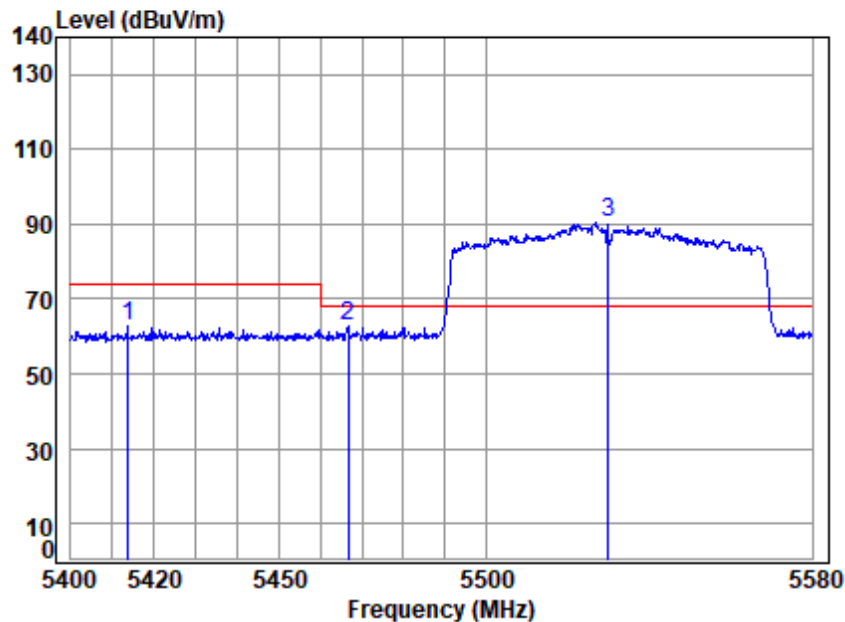


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5670 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5670.000	19.73	34.36	31.54	80.82	103.37	68.20	35.17	Peak
2 5725.000	19.83	34.25	31.57	38.66	61.17	68.20	-7.03	Peak
3 5758.781	19.89	34.22	31.59	39.57	62.09	68.20	-6.11	Peak



Test Mode: 03; Polarity: Horizontal; Modulation: 802.11ac; Bandwidth: 80MHz; Channel: Low

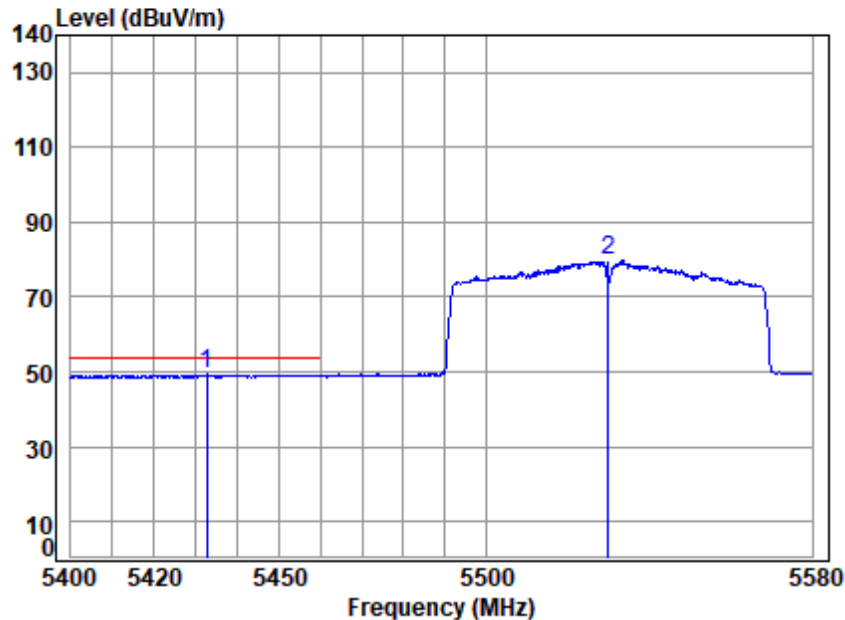


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5530 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5413.651	19.20	34.63	31.42	40.15	62.56	74.00	-11.44 peak
2	5466.630	19.34	34.63	31.44	40.19	62.72	68.20	-5.48 peak
3 p	5530.000	19.48	34.62	31.48	67.83	90.45	68.20	22.25 peak



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

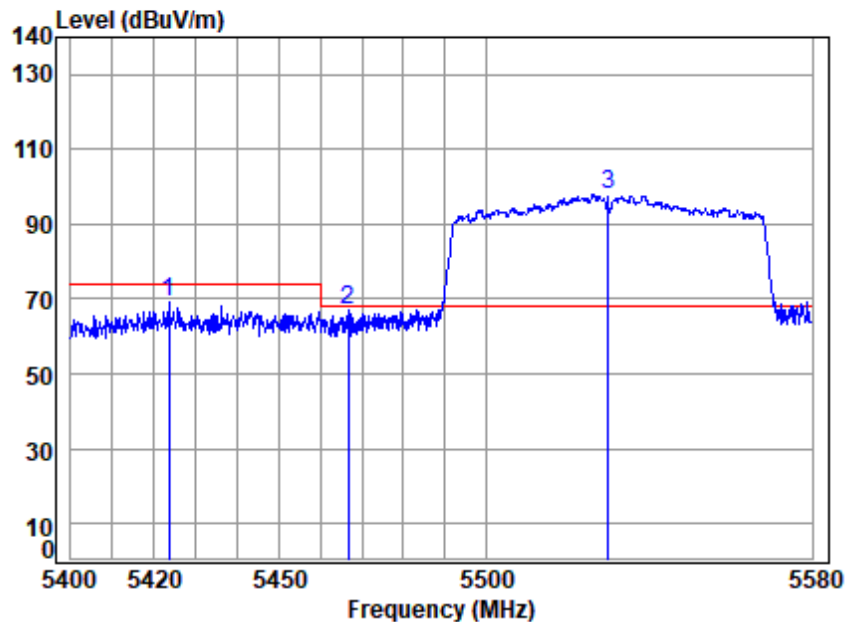


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5530 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5432.500	19.25	34.67	31.43	26.81	49.30	54.00	-4.70	Average
2 5530.000	19.48	34.62	31.48	57.05	79.67	-----	-----	Average



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

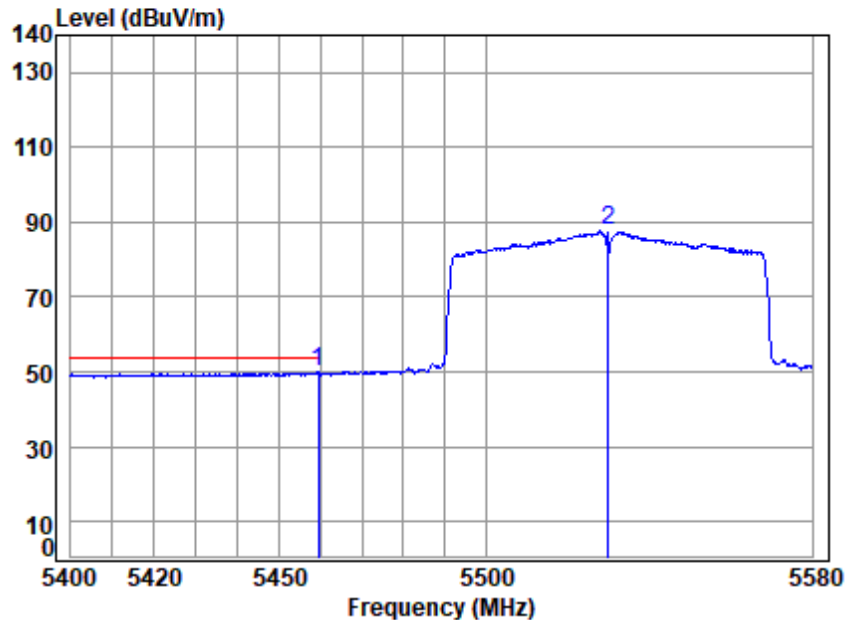


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5530 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5423.423	19.23	34.65	31.42	46.60	69.06	74.00	-4.94 Peak
2	5466.630	19.34	34.63	31.44	44.74	67.27	68.20	-0.93 peak
3 p	5530.000	19.48	34.62	31.48	75.57	98.19	68.20	29.99 Peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:Low

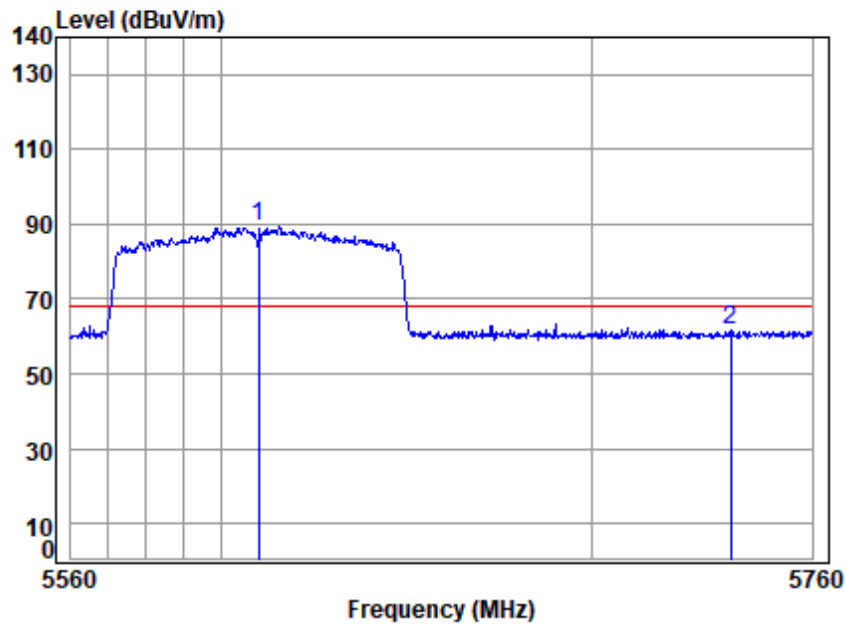


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5530 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 5459.465	19.32	34.66	31.44	27.36	49.90	54.00	-4.10	Average
2 5530.000	19.48	34.62	31.48	64.97	87.59	-----	-----	Average



Test Mode: 03; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

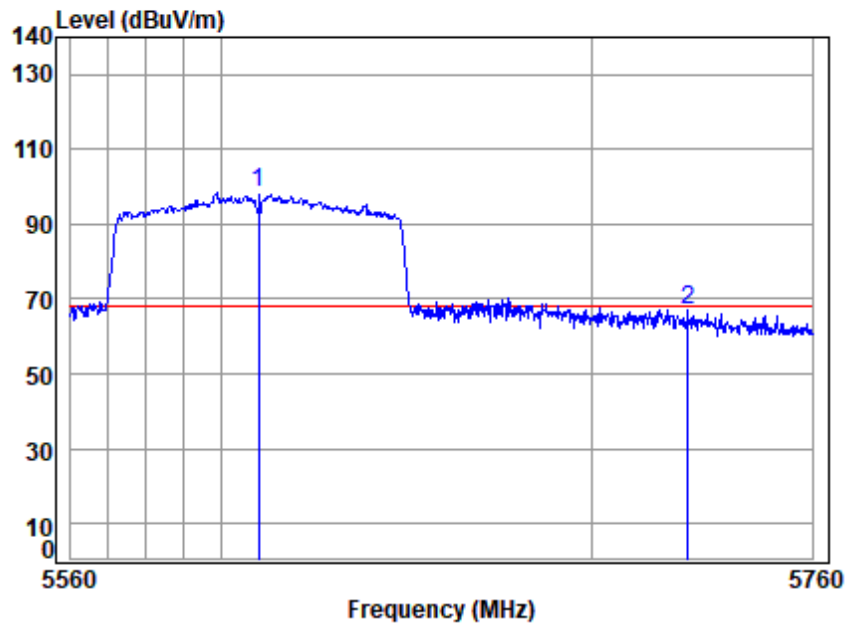


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5610 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5610.000	19.63	34.64	31.52	66.60	89.35	68.20	21.15	peak
2 5737.855	19.85	34.22	31.58	39.08	61.57	68.20	-6.63	peak



Test Mode: 03; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:High

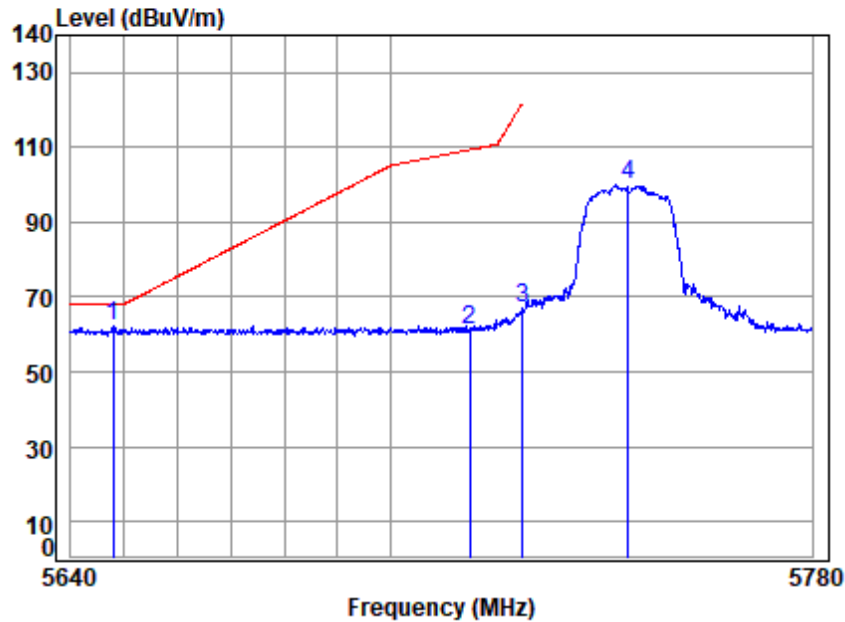


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5610 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5610.000	19.63	34.64	31.52	75.63	98.38	68.20	30.18 Peak
2	5725.904	19.83	34.25	31.57	44.73	67.24	68.20	-0.96 Peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

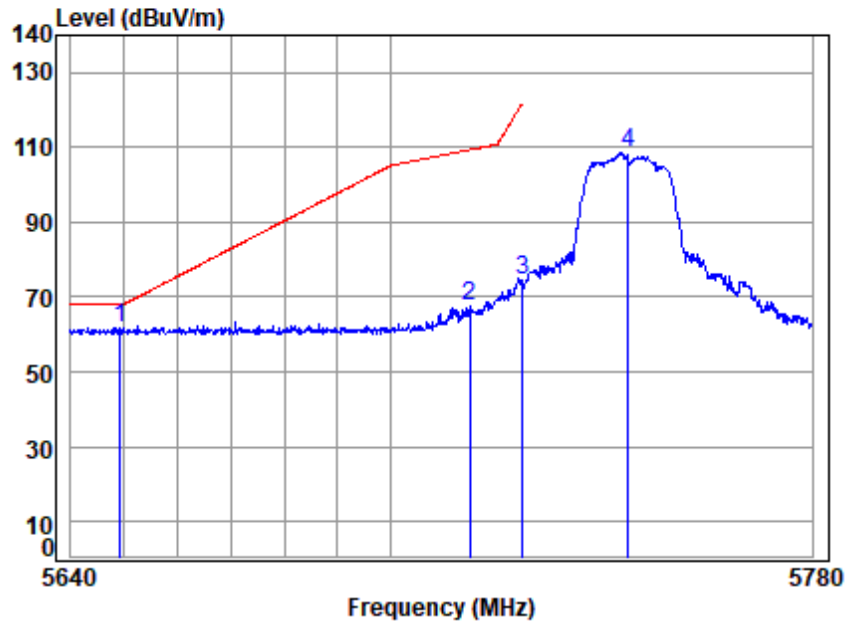


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5745 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read		Limit	Over	
Freq		Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz		dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	5647.888	19.70	34.41	31.53	39.58	62.16	68.20	-6.04	peak
2	5715.000	19.81	34.27	31.57	38.59	61.10	109.40	-48.30	peak
3	5725.000	19.83	34.25	31.57	44.60	67.11	122.20	-55.09	peak
4	5745.000	19.87	34.21	31.58	77.44	99.94	-----	-----	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:Low

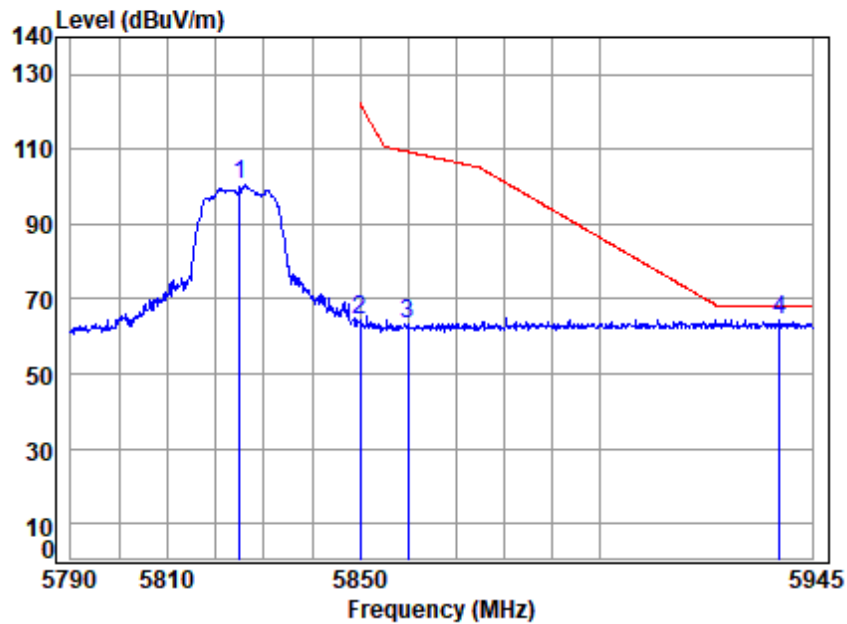


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5745 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 p	5649.135	19.70	34.41	31.53	39.13	61.71	68.20	-6.49 peak
2	5715.000	19.81	34.27	31.57	45.35	67.86	109.40	-41.54 peak
3	5725.000	19.83	34.25	31.57	51.87	74.38	122.20	-47.82 peak
4	5745.000	19.87	34.21	31.58	85.97	108.47	-----	----- peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11a; Bandwidth:20MHz; Channel:High

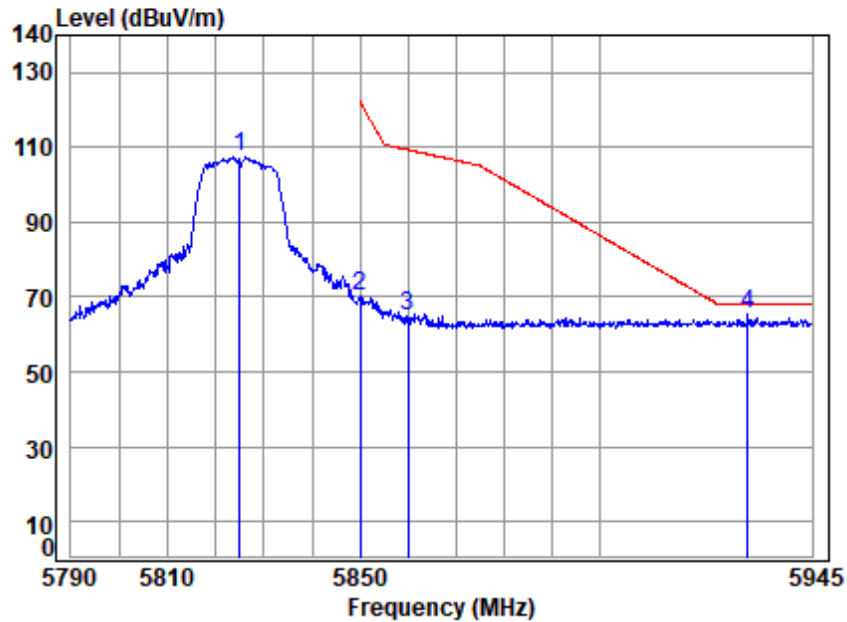


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5825 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5825.000	20.00	34.35	31.62	77.83	100.56	-----	-----	peak
2 5850.000	20.05	34.40	31.63	41.51	64.33	122.20	-57.87	peak
3 5860.000	20.06	34.44	31.64	40.42	63.28	109.40	-46.12	peak
4 p 5938.094	20.20	34.68	31.67	41.13	64.34	68.20	-3.86	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11a; Bandwidth:20MHz; Channel:High

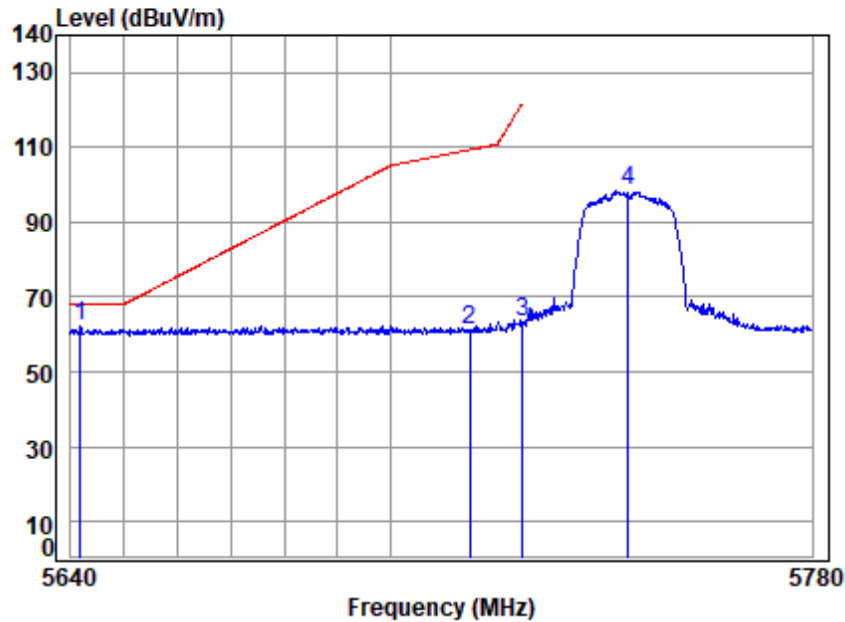


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5825 Band edge
: 5G WIFI 11A

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5825.000	20.00	34.35	31.62	84.78	107.51	-----	-----	peak
2 5850.000	20.05	34.40	31.63	47.55	70.37	122.20	-51.83	peak
3 5860.000	20.06	34.44	31.64	41.85	64.71	109.40	-44.69	peak
4 p 5931.352	20.18	34.66	31.67	42.35	65.52	68.20	-2.68	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5745 Band edge
: 5G WIFI 11AC20

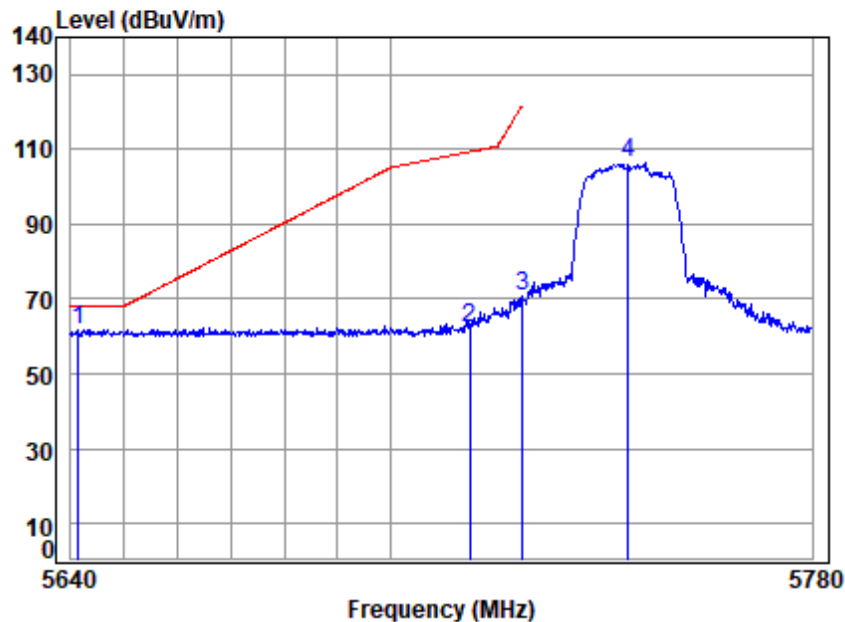
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5641.798	19.68	34.45	31.53	39.42	62.02	68.20	-6.18	peak
2 5715.000	19.81	34.27	31.57	38.96	61.47	109.40	-47.93	peak
3 5725.000	19.83	34.25	31.57	40.90	63.41	122.20	-58.79	peak
4 5745.000	19.87	34.21	31.58	75.99	98.49	-----	-----	peak



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Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:Low

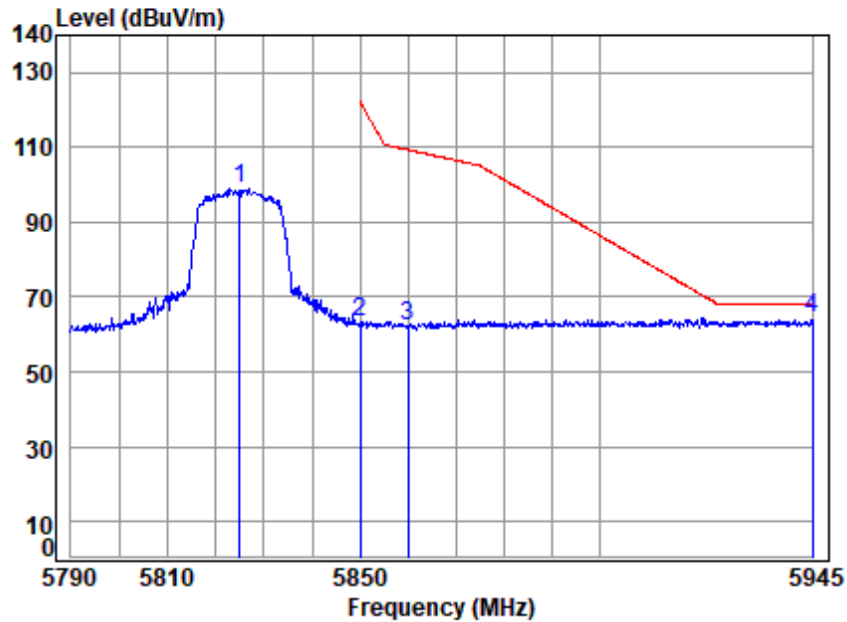


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5745 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5641.383	19.68	34.45	31.53	39.30	61.90	68.20	-6.30	peak
2 5715.000	19.81	34.27	31.57	39.89	62.40	109.40	-47.00	peak
3 5725.000	19.83	34.25	31.57	48.14	70.65	122.20	-51.55	peak
4 5745.000	19.87	34.21	31.58	83.83	106.33	-----	-----	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

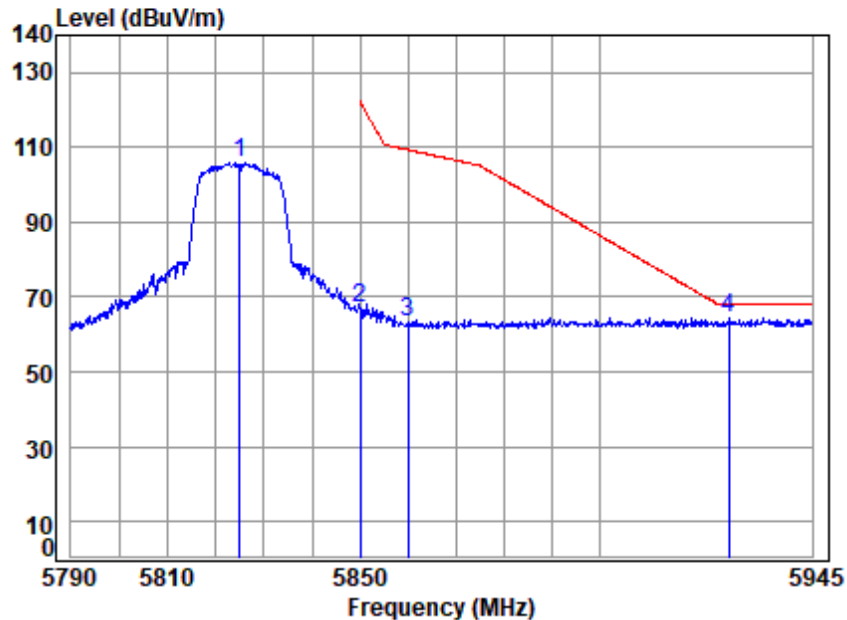


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5825 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5825.000	20.00	34.35	31.62	76.35	99.08	-----	----- peak
2	5850.000	20.05	34.40	31.63	40.78	63.60	122.20	-58.60 peak
3	5860.000	20.06	34.44	31.64	39.68	62.54	109.40	-46.86 peak
4 p	5945.000	20.21	34.69	31.67	41.07	64.30	68.20	-3.90 peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:20MHz; Channel:High

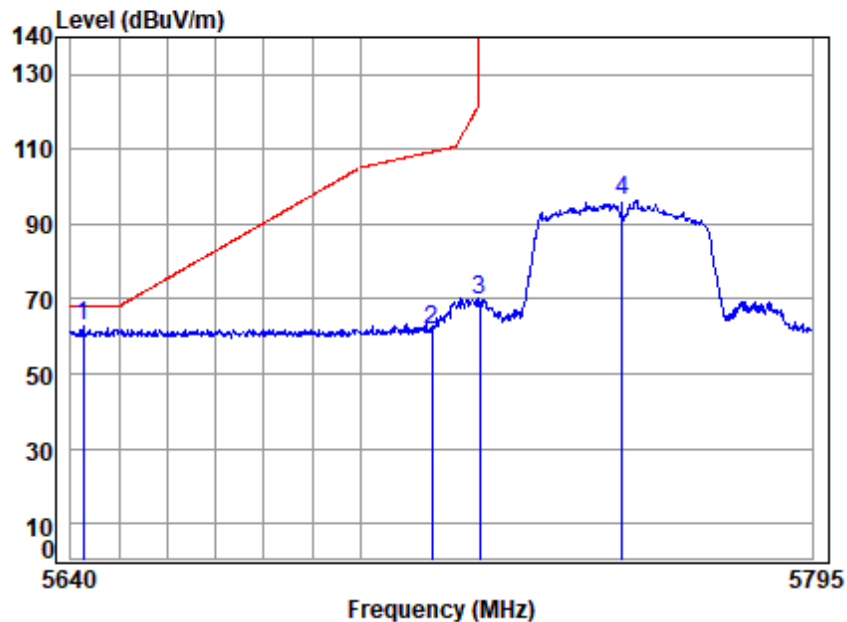


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5825 Band edge
: 5G WIFI 11AC20

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5825.000	20.00	34.35	31.62	83.28	106.01	-----	-----	peak
2 5850.000	20.05	34.40	31.63	44.35	67.17	122.20	-55.03	peak
3 5860.000	20.06	34.44	31.64	40.24	63.10	109.40	-46.30	peak
4 p 5927.279	20.18	34.65	31.67	41.17	64.33	68.20	-3.87	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

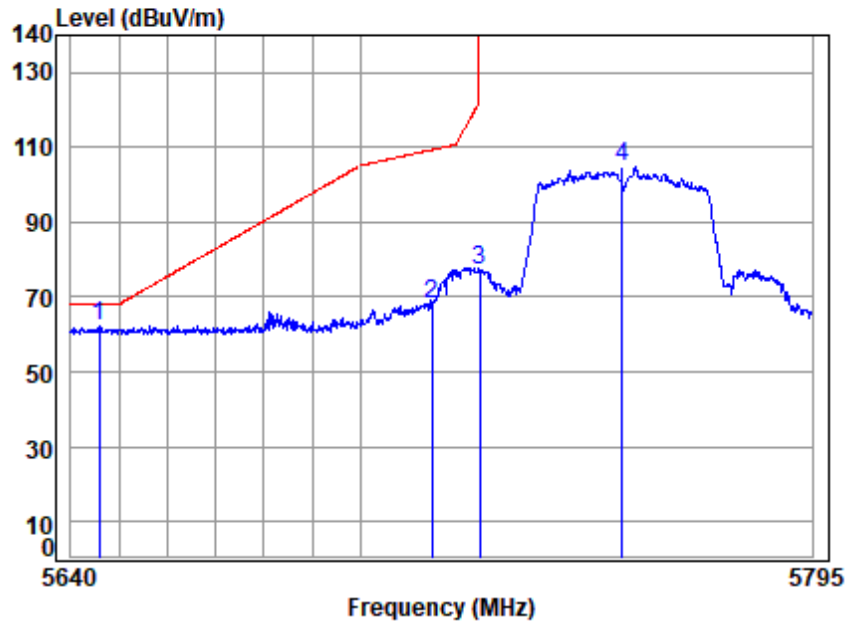


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5755 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5642.600	19.69	34.44	31.53	40.03	62.63	68.20	-5.57	peak
2 5715.000	19.81	34.27	31.57	39.43	61.94	109.40	-47.46	peak
3 5725.000	19.83	34.25	31.57	47.43	69.94	122.20	-52.26	peak
4 5755.000	19.88	34.21	31.59	74.10	96.60	-----	-----	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:Low

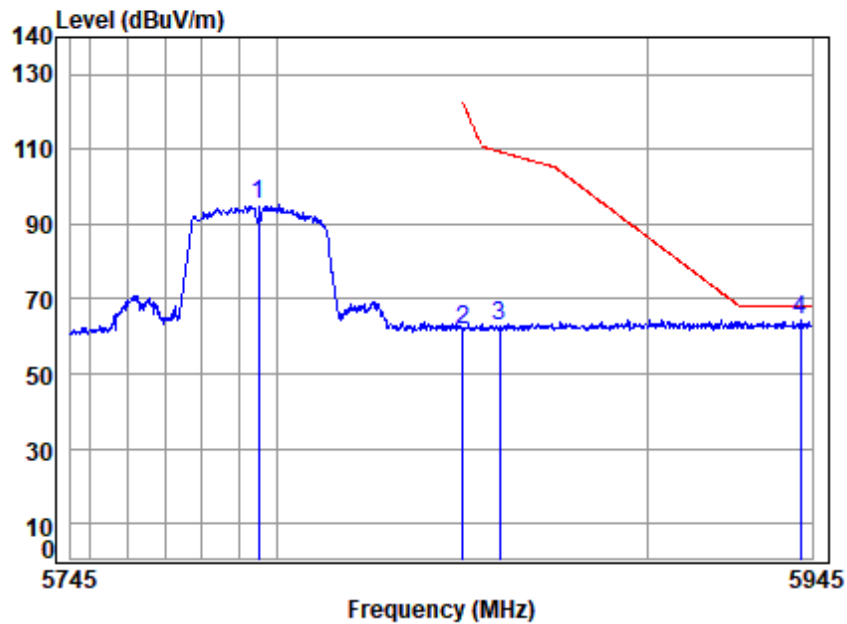


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5755 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p 5645.813	19.69	34.43	31.53	39.72	62.31	68.20	-5.89	peak
2 5715.000	19.81	34.27	31.57	45.53	68.04	109.40	-41.36	peak
3 5725.000	19.83	34.25	31.57	54.74	77.25	122.20	-44.95	peak
4 5755.000	19.88	34.21	31.59	82.14	104.64	-----	-----	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

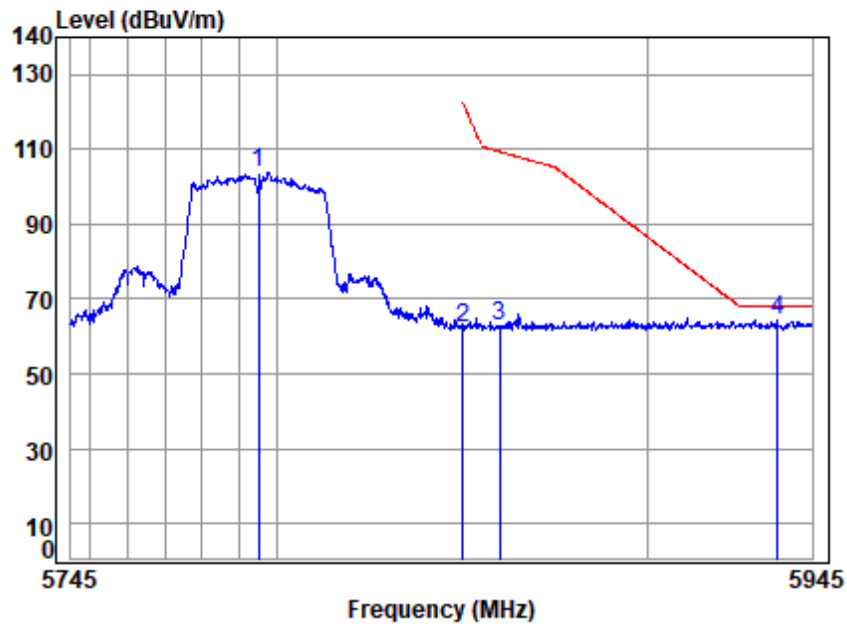


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5795 Band edge
: 5G WIFI 11AC40

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5795.000	19.95	34.29	31.60	72.47	95.11	-----	-----	peak
2	5850.000	20.05	34.40	31.63	39.00	61.82	122.20	-60.38	peak
3	5860.000	20.06	34.44	31.64	39.87	62.73	109.40	-46.67	peak
4 p	5941.746	20.20	34.68	31.67	41.01	64.22	68.20	-3.98	peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:40MHz; Channel:High

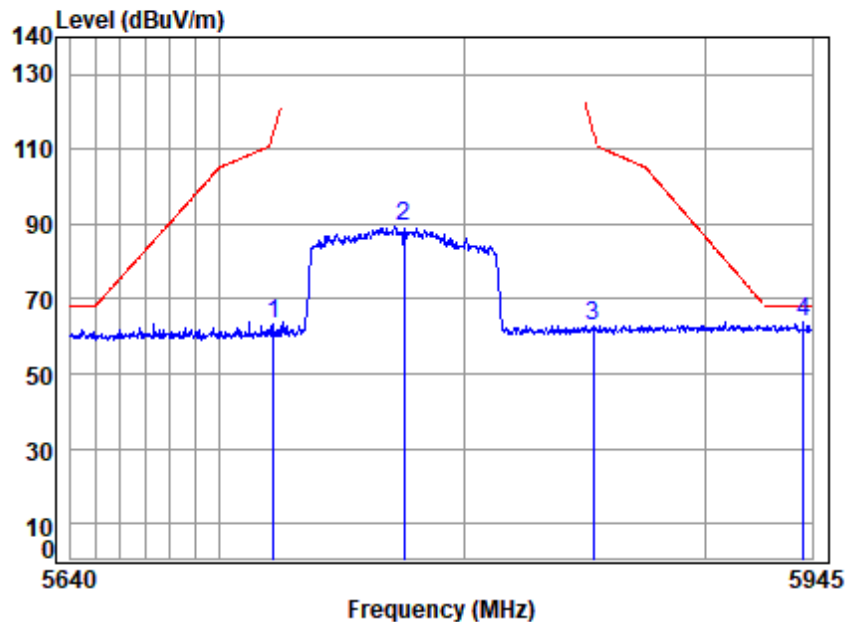


Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5795 Band edge
: 5G WIFI 11AC40

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5795.000	19.95	34.29	31.60	81.23	103.87	-----	-----	peak
2 5850.000	20.05	34.40	31.63	39.69	62.51	122.20	-59.69	peak
3 5860.000	20.06	34.44	31.64	40.17	63.03	109.40	-46.37	peak
4 p 5935.446	20.19	34.67	31.67	41.17	64.36	68.20	-3.84	peak



Test Mode: 04; Polarity: Horizontal; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle

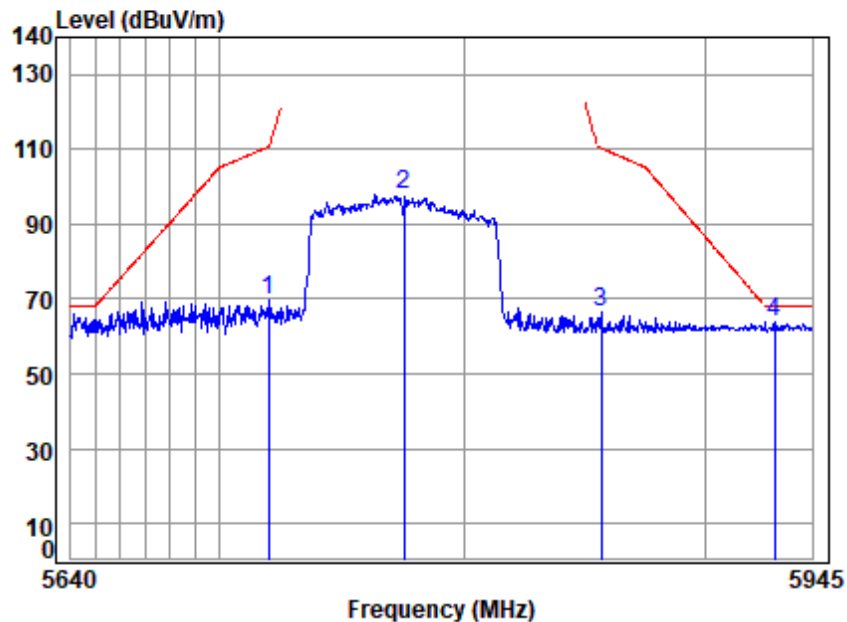


Site : chamber
Condition: 3m HORIZONTAL
Job No : 03293TL\03294TL
Mode : 5775 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	5721.979	19.83	34.26	31.57	40.72	63.24	115.31	-52.07 peak
2	5775.000	19.92	34.25	31.60	66.71	89.28	-----	----- peak
3	5853.349	20.05	34.41	31.63	39.91	62.74	114.56	-51.82 peak
4 p	5941.244	20.20	34.68	31.67	40.77	63.98	68.20	-4.22 peak



Test Mode: 04; Polarity: Vertical; Modulation:802.11ac; Bandwidth:80MHz; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 03293TL\03294TL
Mode : 5775 Band edge
: 5G WIFI 11AC80

		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	5719.870	19.82	34.26	31.57	47.05	69.56	110.76	-41.20 peak
2	5775.000	19.92	34.25	31.60	75.14	97.71	-----	----- peak
3	5856.741	20.06	34.43	31.63	43.50	66.36	110.31	-43.95 peak
4 p	5929.053	20.18	34.66	31.67	40.85	64.02	68.20	-4.18 peak



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7.5 Duty Cycle

Test Requirement ANSI C63.10 (2013) Section 12.2

Test Method: ANSI C63.10 (2020) Section 12.2

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 26.6 °C Humidity: 44.4 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _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 20/40/80, Only the data of worst case is recorded in the report.



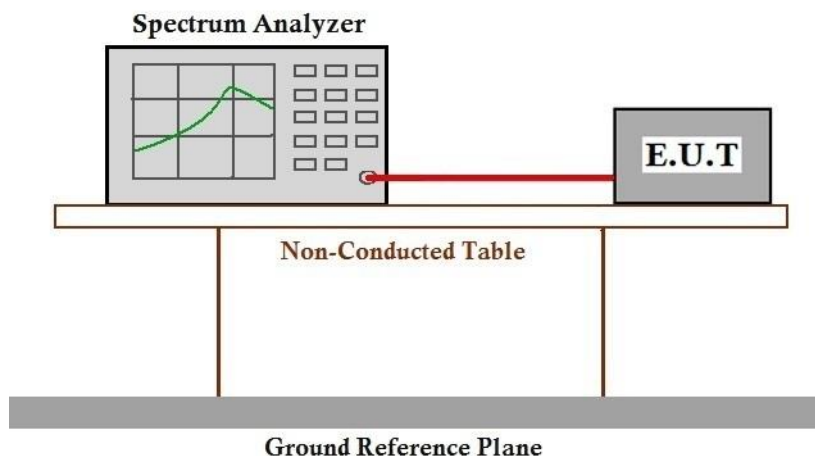
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7.5.3 Test Setup Diagram



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 (2013) Section 12.4.2

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

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 26.6 °C Humidity: 44.4 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _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 20/40/80, Only the data of worst case is recorded in the report.



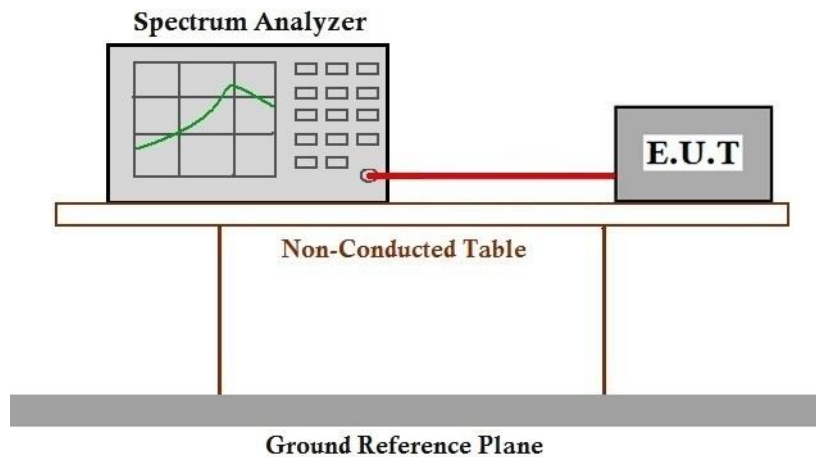
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Shenzhen Branch (SZEMC) EMC Laboratory

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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

7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 26.6 °C

Humidity: 44.4 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _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 20/40/80, Only the data of worst case is recorded in the report.



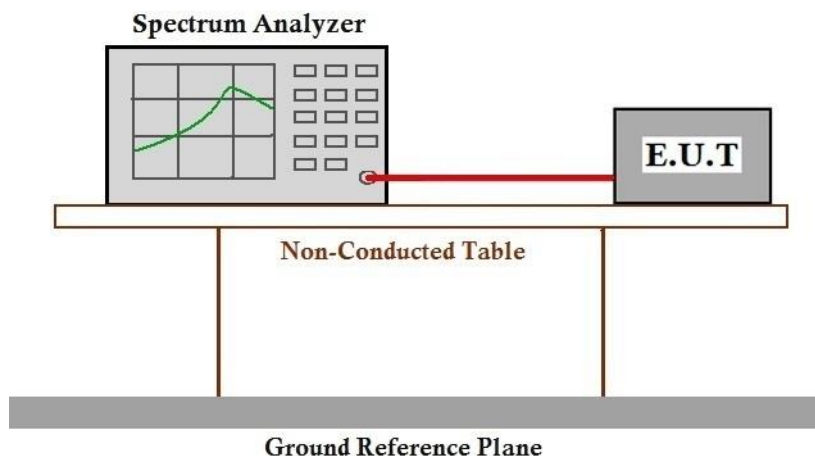
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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.8 Minimum 6 dB bandwidth (5.725-5.85 GHz band)

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

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

Limit:

Frequency band(MHz)	Limit
5725-5850	≥ 500 kHz

7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 26.6 °C

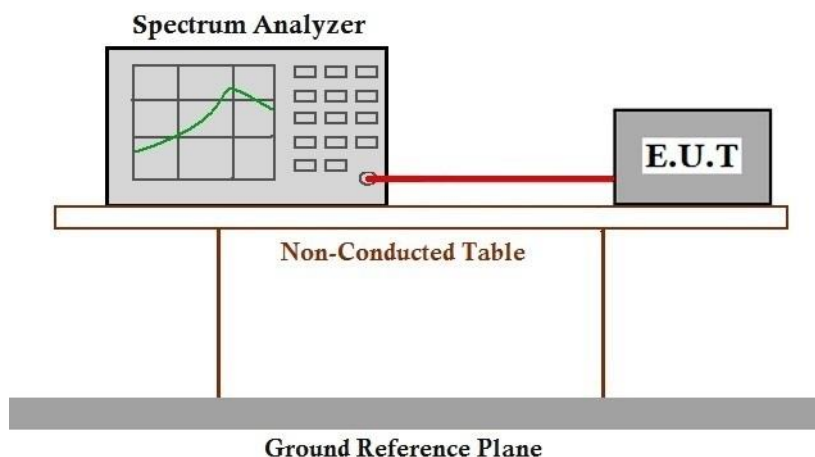
Humidity: 44.4 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	04	TX mode (U-NII-3) _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 20/40/80, Only the data of worst case is recorded in the report.

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

Limit:

Frequency band(MHz)	Limit
5150-5250	≤1W(30dBm) for master device
	≤250mW(24dBm) for client device
5250-5350	≤250mW(24dBm) or 11dBm+10logB*
5470-5725	≤250mW(24dBm) or 11dBm+10logB*
5725-5850	≤1W(30dBm)
Remark:	* Where B is the 26dB emission bandwidth in MHz. 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: 26.6 °C

Humidity: 44.4 % RH

Atmospheric Pressure: 1020 mbar

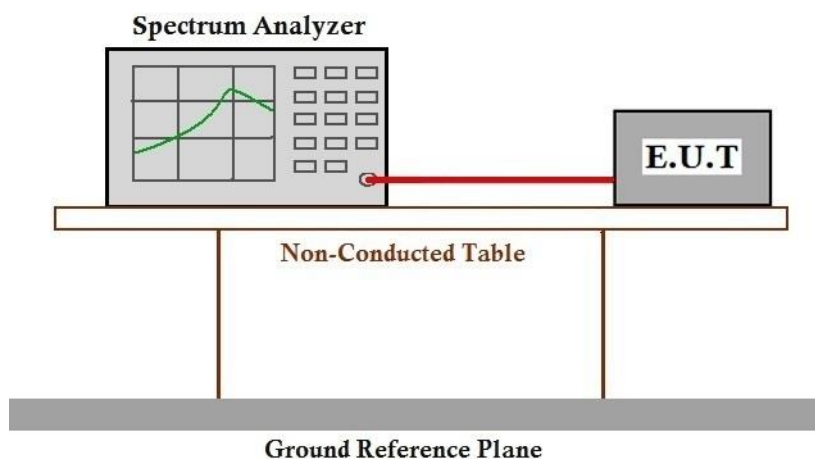
7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _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 20/40/80, Only the data of worst case is recorded in the report.



Final test	04	TX mode (U-NII-3) _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 20/40/80, Only the data of worst case is recorded in the report.
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7.9.3 Test Setup Diagram



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



7.10 Peak Power spectrum density

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

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

Limit:

Frequency band(MHz)	Limit
5150-5250	≤17dBm in 1MHz for master device
	≤11dBm in 1MHz for client device
5250-5350	≤11dBm in 1MHz for client device
5470-5725	≤11dBm in 1MHz for client device
5725-5850	≤30dBm in 500 kHz
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: 26.6 °C

Humidity: 44.4 % RH

Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _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 20/40/80, Only the data of worst case is recorded in the report.



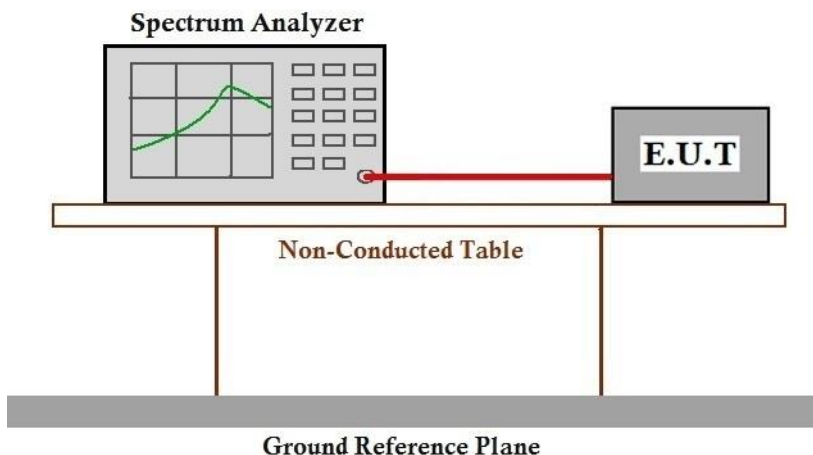
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7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

RBW conversion factor from 300kHz to 500kHz (2.22dB) for UNII Band 3 has been considered.

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

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 26.6 °C Humidity: 44.4 % RH Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX mode (U-NII-1) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	02	TX mode (U-NII-2A) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	03	TX mode (U-NII-2C) _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 20/40/80, Only the data of worst case is recorded in the report.
Final test	04	TX mode (U-NII-3) _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 20/40/80, Only the data of worst case is recorded in the report.



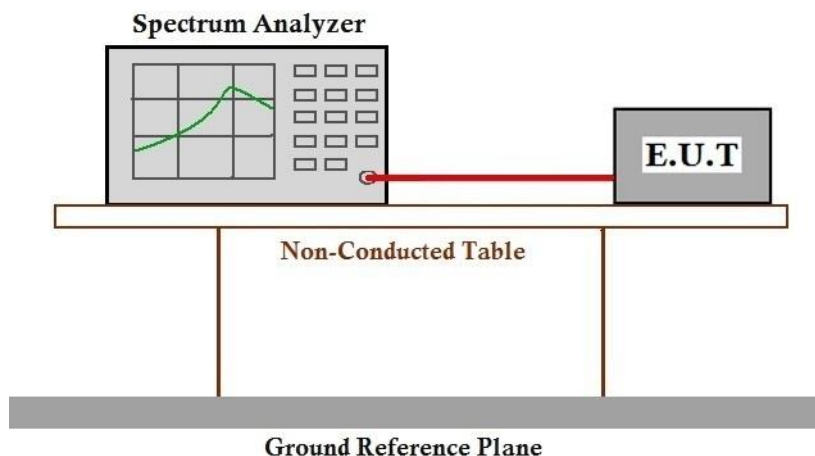
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7.11.3 Test Setup Diagram



7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2507003293TL

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2507003293TL



10 Appendix

1. Duty Cycle

1.1 Test Result

1.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
802.11a	SISO	5180	1.397	1.452	96.21	0.17	0.07
		5200	1.397	1.452	96.21	0.17	0.03
		5240	1.398	1.452	96.28	0.16	0.03
		5260	1.398	1.452	96.28	0.16	0.03
		5300	1.397	1.452	96.21	0.17	0.03
		5320	1.397	1.451	96.28	0.16	0.03
		5500	1.397	1.452	96.21	0.17	0.03
		5580	1.397	1.451	96.28	0.16	0.03
		5700	1.396	1.452	96.14	0.17	0.07
		5745	1.396	1.452	96.14	0.17	0.04
		5785	1.396	1.452	96.14	0.17	0.07
		5825	1.398	1.453	96.21	0.17	0.03
802.11n (HT20)	MIMO	5180	1.310	1.364	96.04	0.18	0.03
		5200	1.310	1.364	96.04	0.18	0.03
		5240	1.310	1.364	96.04	0.18	0.03
		5260	1.310	1.364	96.04	0.18	0.03
		5300	1.309	1.363	96.04	0.18	0.03
		5320	1.310	1.364	96.04	0.18	0.03
		5500	1.309	1.363	96.04	0.18	0.03
		5580	1.309	1.364	95.97	0.18	0.07
		5700	1.309	1.364	95.97	0.18	0.07
		5745	1.308	1.363	95.96	0.18	0.07
		5785	1.308	1.364	95.89	0.18	0.03
		5825	1.308	1.363	95.96	0.18	0.03
802.11n (HT40)	MIMO	5190	0.648	0.703	92.18	0.35	0.04
		5230	0.648	0.702	92.31	0.35	0.00
		5270	0.649	0.703	92.32	0.35	0.00
		5310	0.649	0.703	92.32	0.35	0.03



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		5510	0.649	0.703	92.32	0.35	0.03
		5550	0.649	0.703	92.32	0.35	0.06
		5670	0.649	0.703	92.32	0.35	0.06
		5755	0.648	0.703	92.18	0.35	0.07
		5795	0.648	0.703	92.18	0.35	0.07
802.11ac (VHT20)	MIMO	5180	1.318	1.372	96.06	0.17	0.03
		5200	1.318	1.372	96.06	0.17	0.03
		5240	1.317	1.371	96.06	0.17	0.03
		5260	1.317	1.371	96.06	0.17	0.03
		5300	1.318	1.372	96.06	0.17	0.03
		5320	1.317	1.372	95.99	0.18	0.03
		5500	1.317	1.371	96.06	0.17	0.03
		5580	1.318	1.372	96.06	0.17	0.07
		5700	1.317	1.371	96.06	0.17	0.03
		5745	1.316	1.372	95.92	0.18	0.07
		5785	1.316	1.371	95.99	0.18	0.07
		5825	1.317	1.371	96.06	0.17	0.03
802.11ac (VHT40)	MIMO	5190	0.656	0.710	92.39	0.34	0.03
		5230	0.657	0.711	92.41	0.34	0.03
		5270	0.657	0.711	92.41	0.34	0.03
		5310	0.657	0.711	92.41	0.34	0.00
		5510	0.657	0.711	92.41	0.34	0.03
		5550	0.657	0.711	92.41	0.34	0.06
		5670	0.657	0.711	92.41	0.34	0.03
		5755	0.657	0.711	92.41	0.34	0.07
		5795	0.656	0.711	92.26	0.35	0.07
802.11ac (VHT80)	MIMO	5210	0.325	0.379	85.75	0.67	0.04
		5290	0.325	0.378	85.98	0.66	0.04
		5530	0.325	0.379	85.75	0.67	0.04
		5610	0.325	0.379	85.75	0.67	0.04
		5775	0.325	0.379	85.75	0.67	0.04



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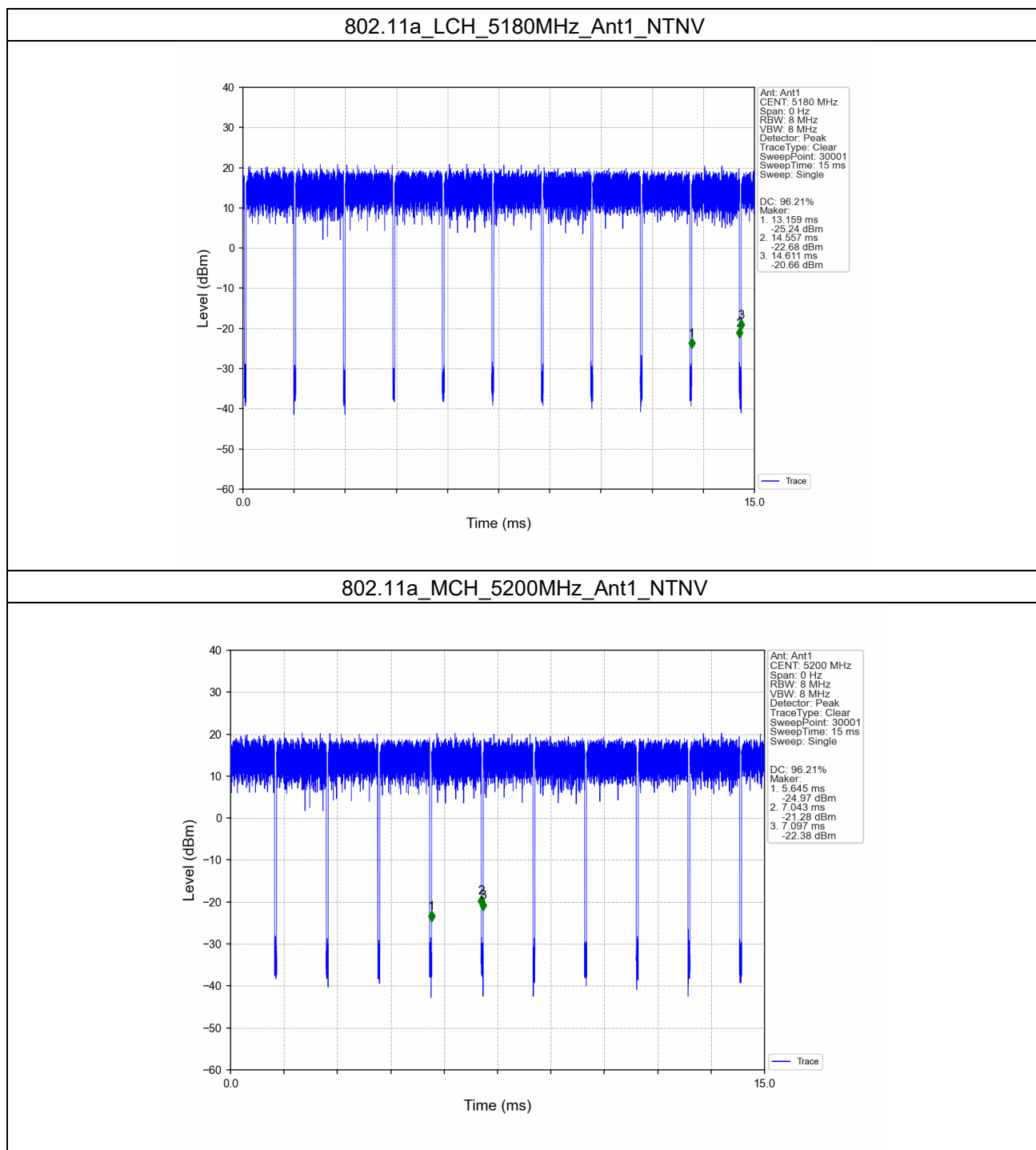
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1.2 Test Graph

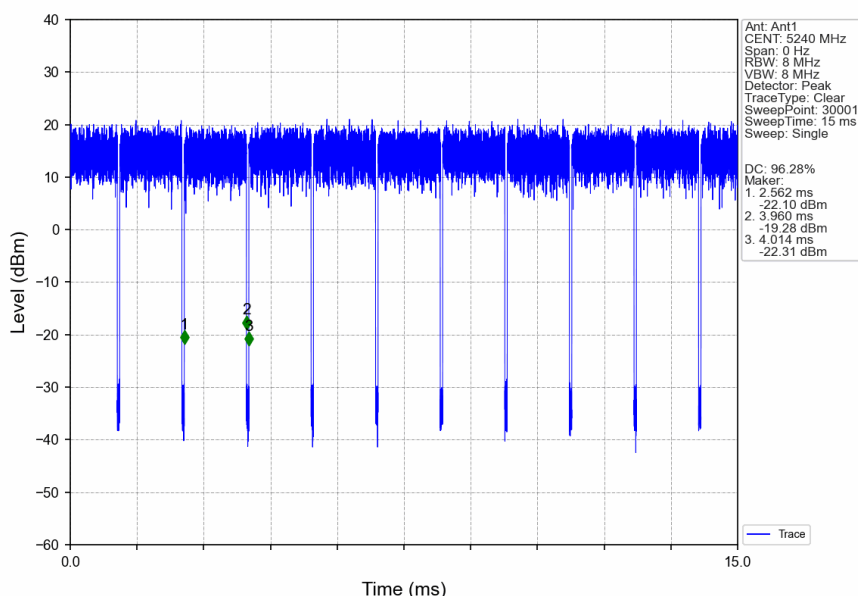
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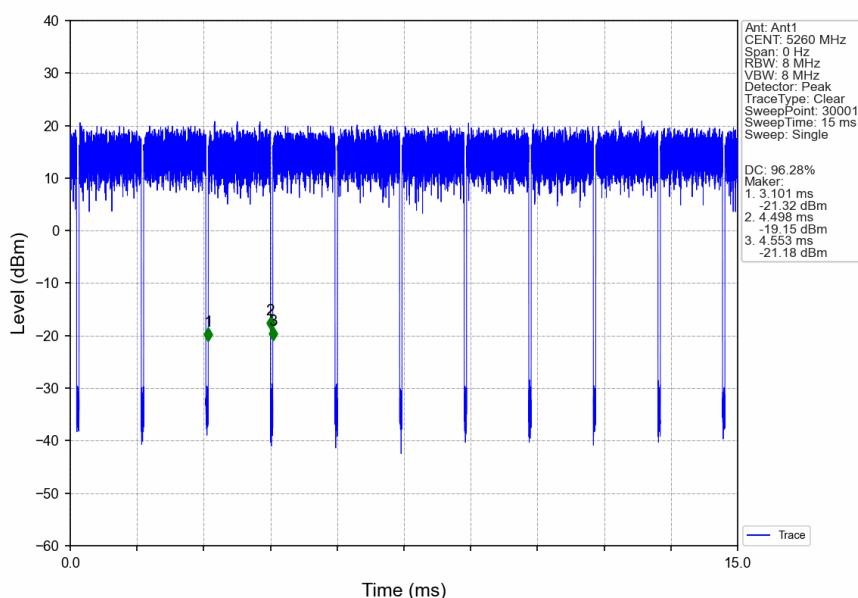
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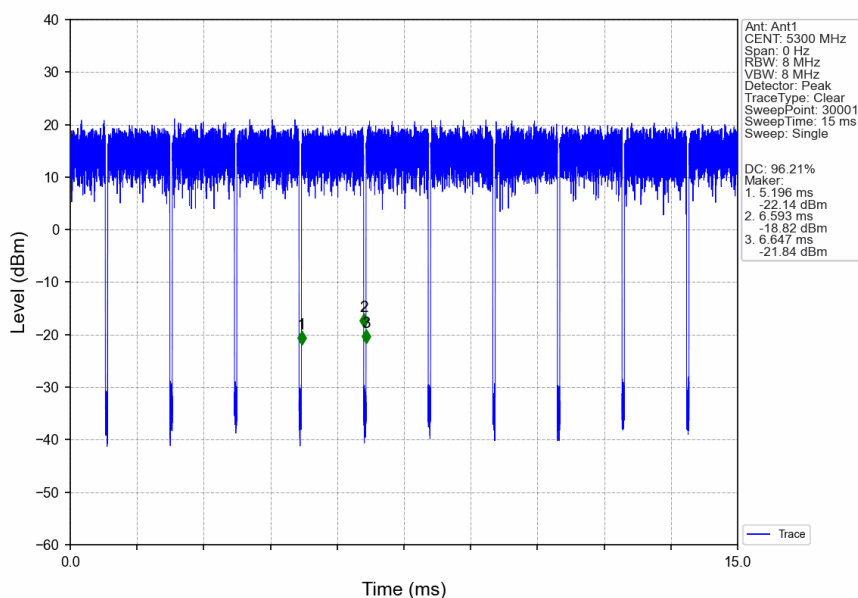
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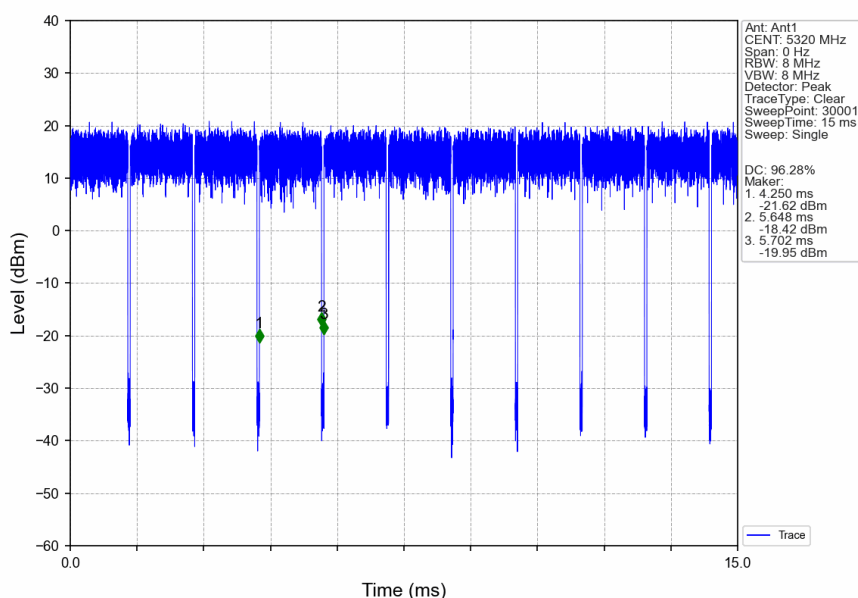
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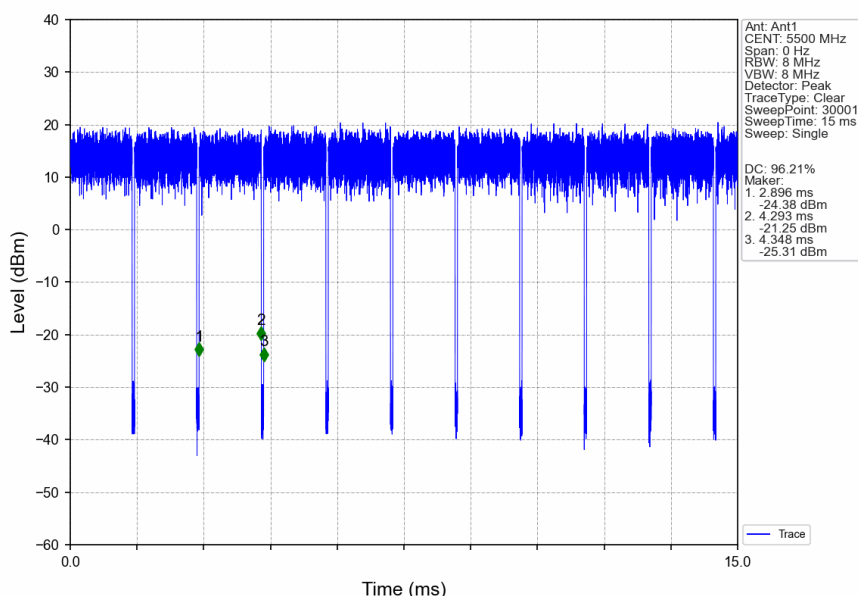
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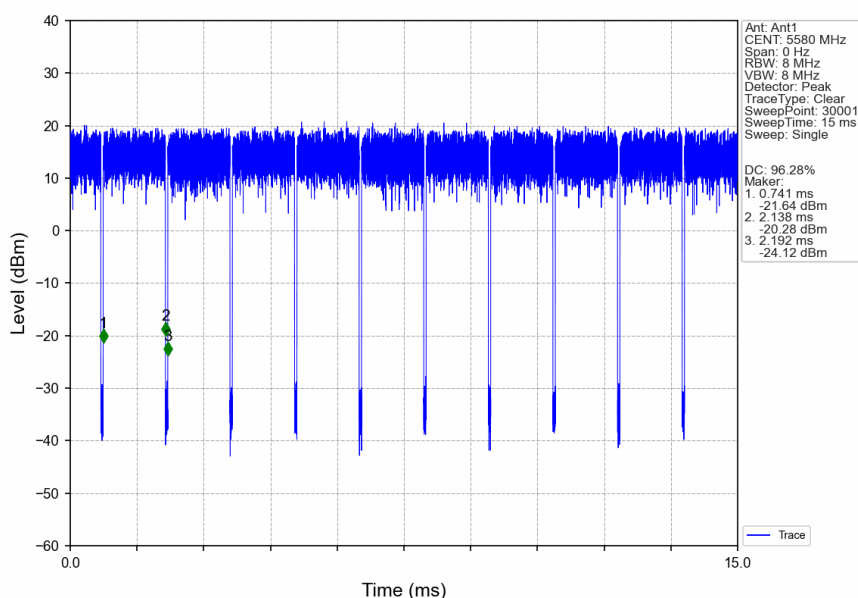
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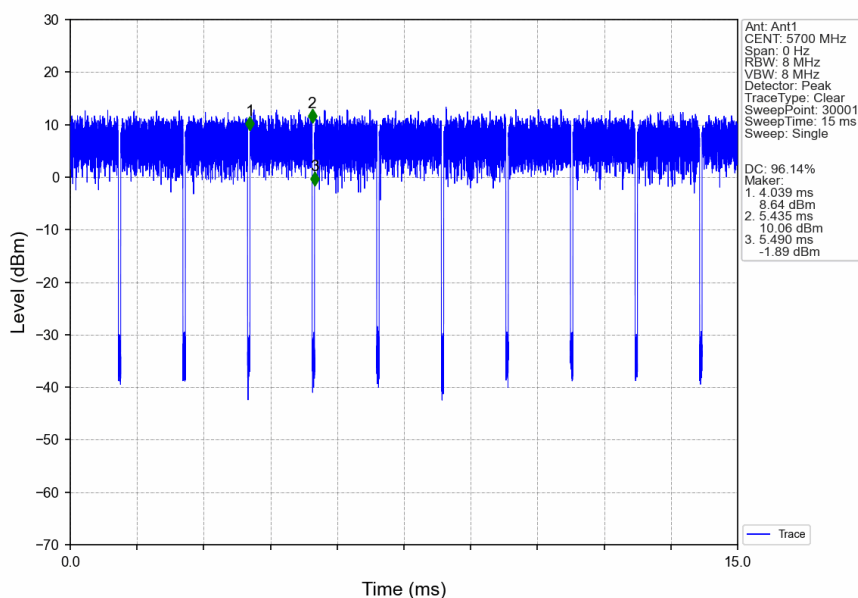
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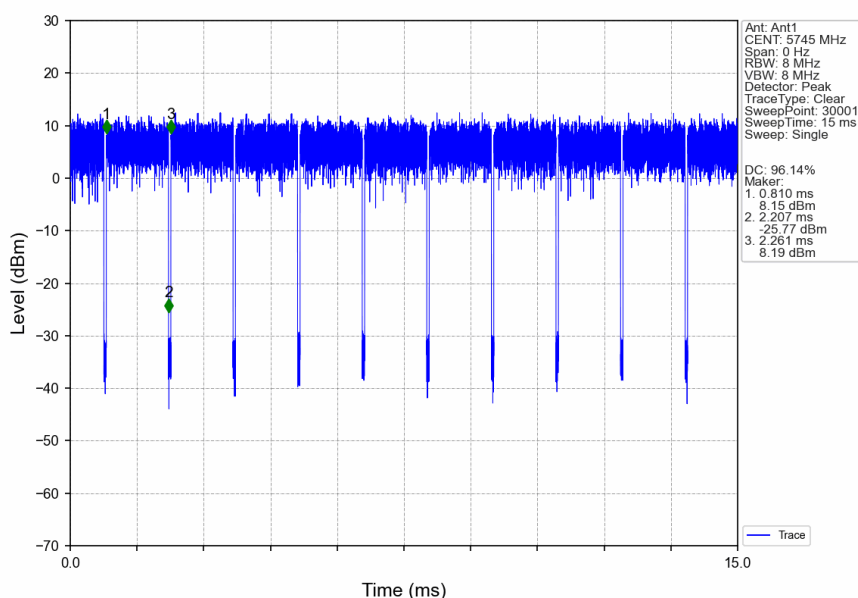
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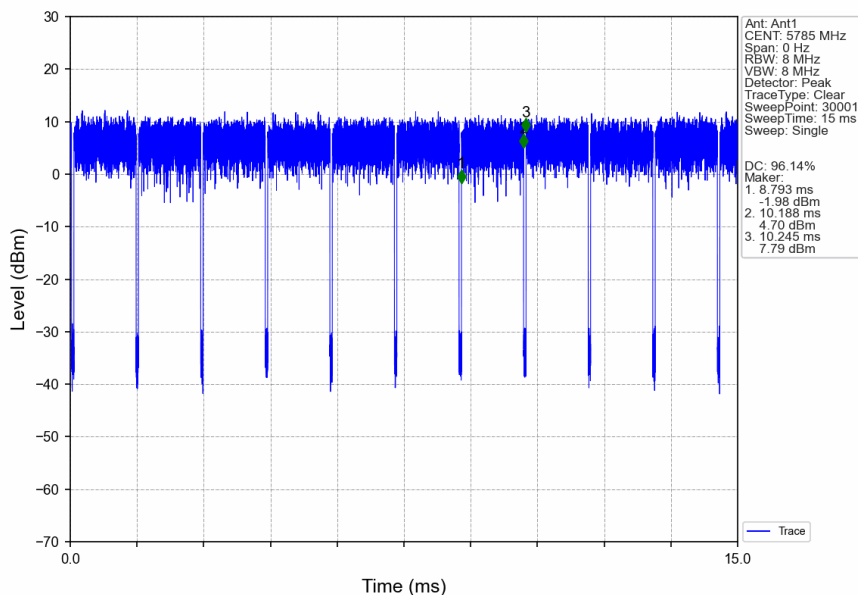
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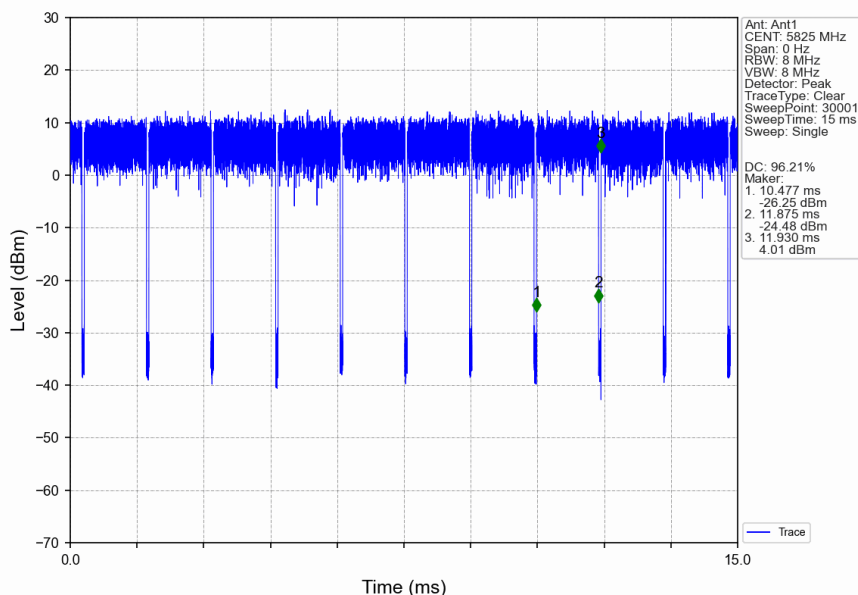
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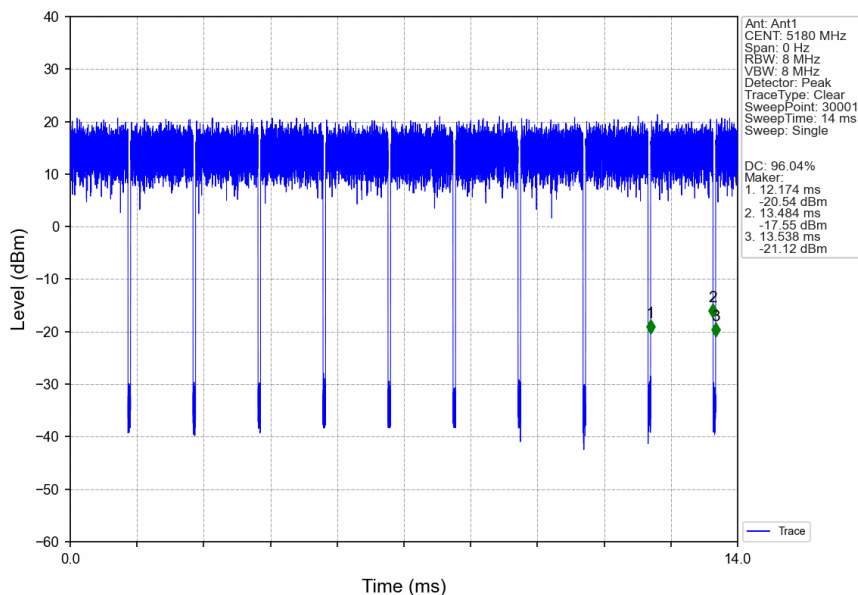
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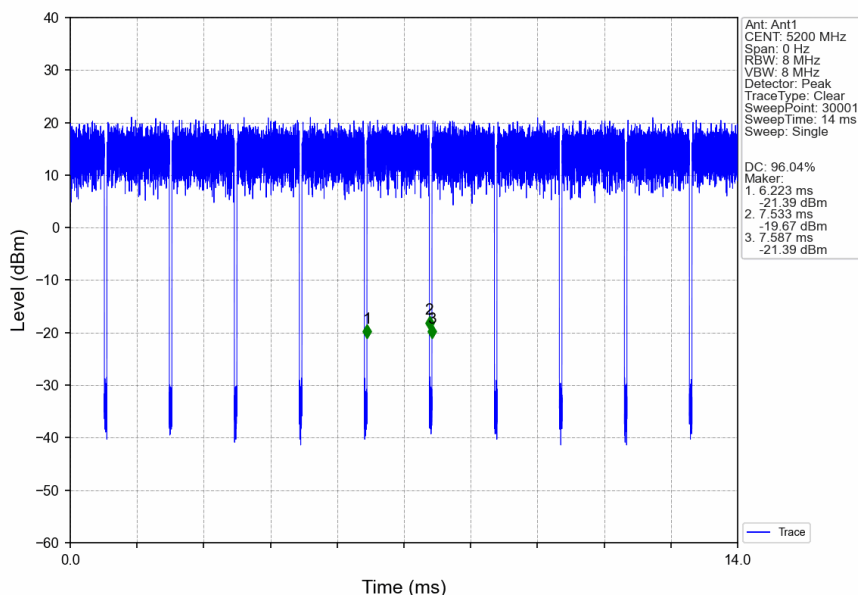
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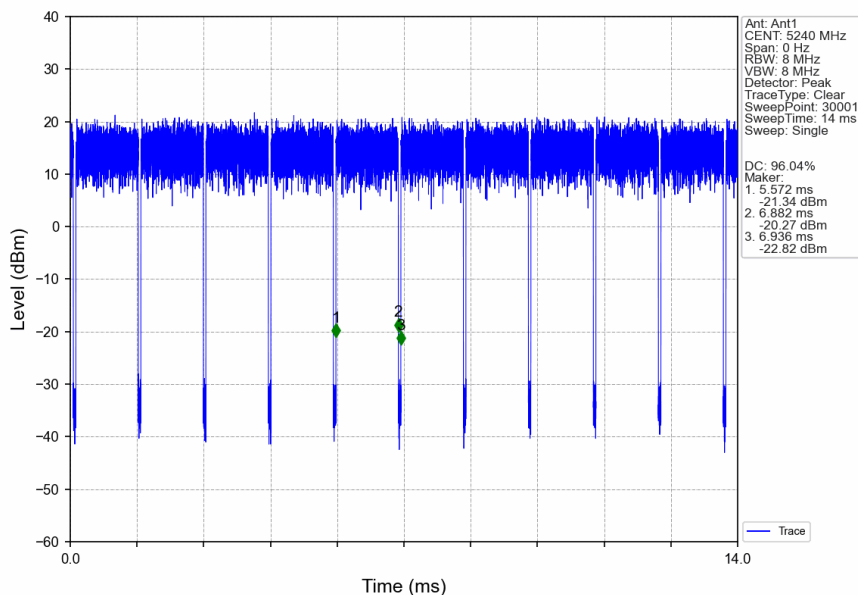
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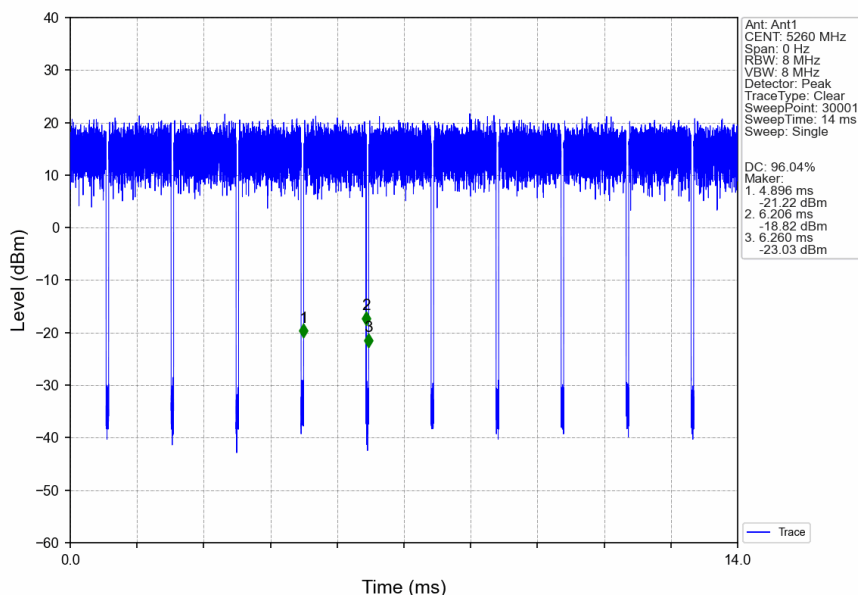
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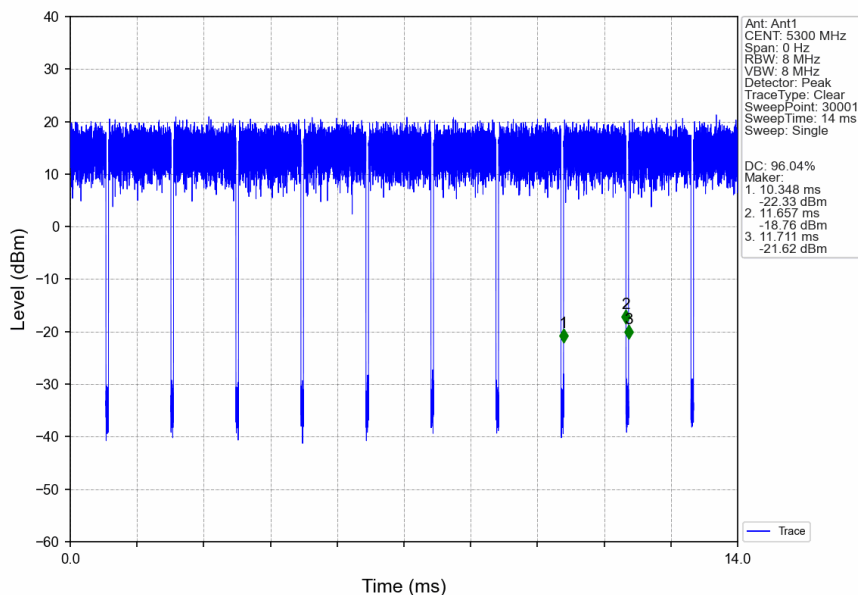
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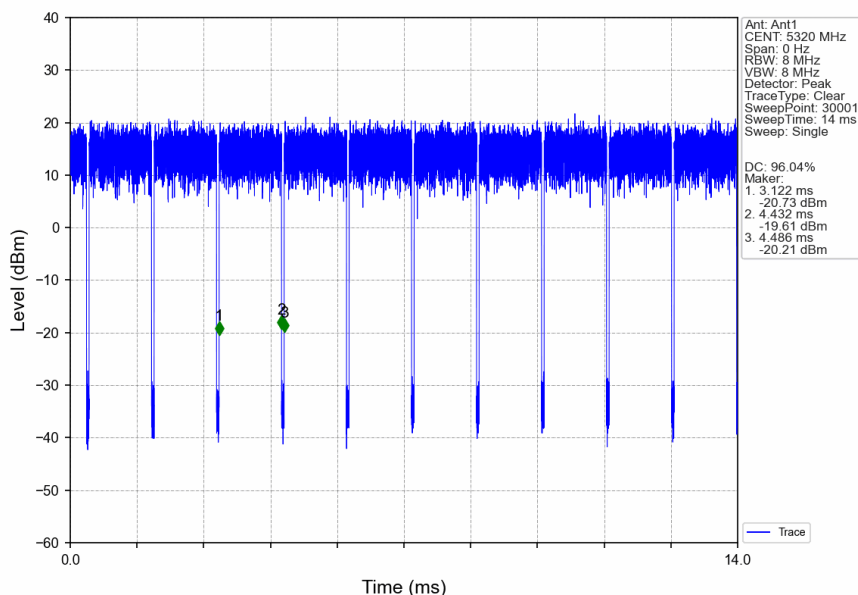
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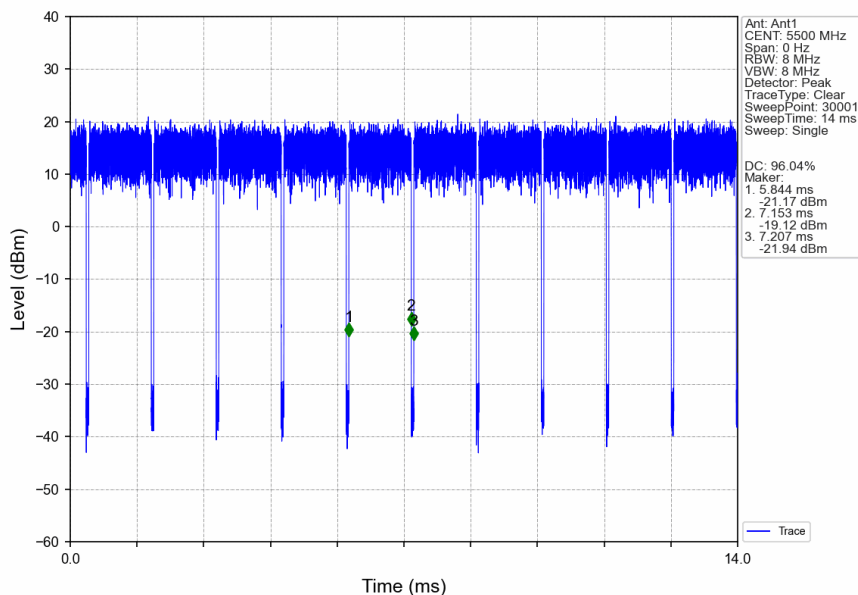
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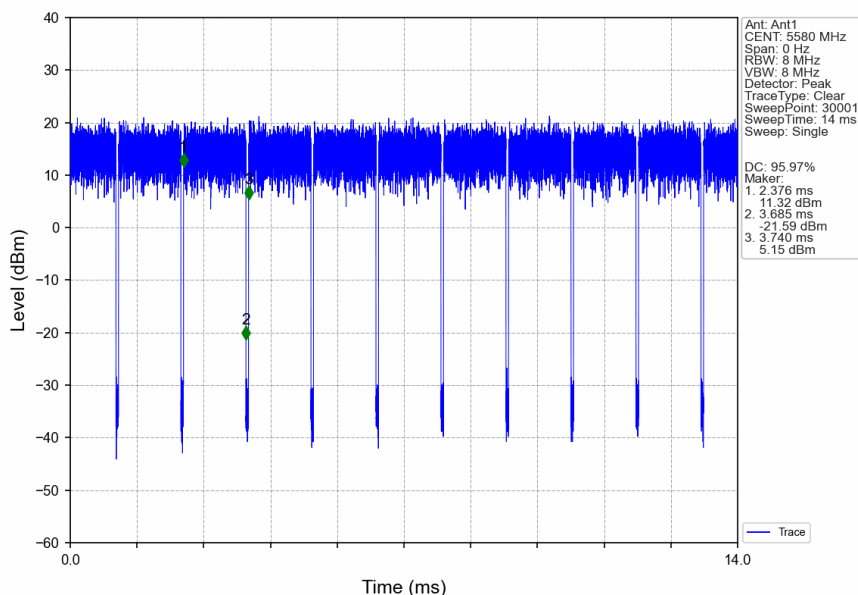
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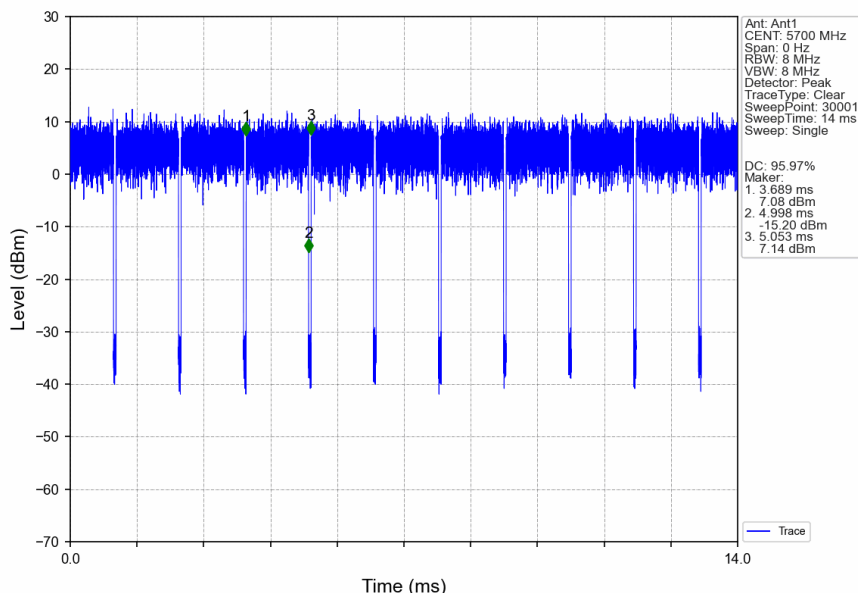
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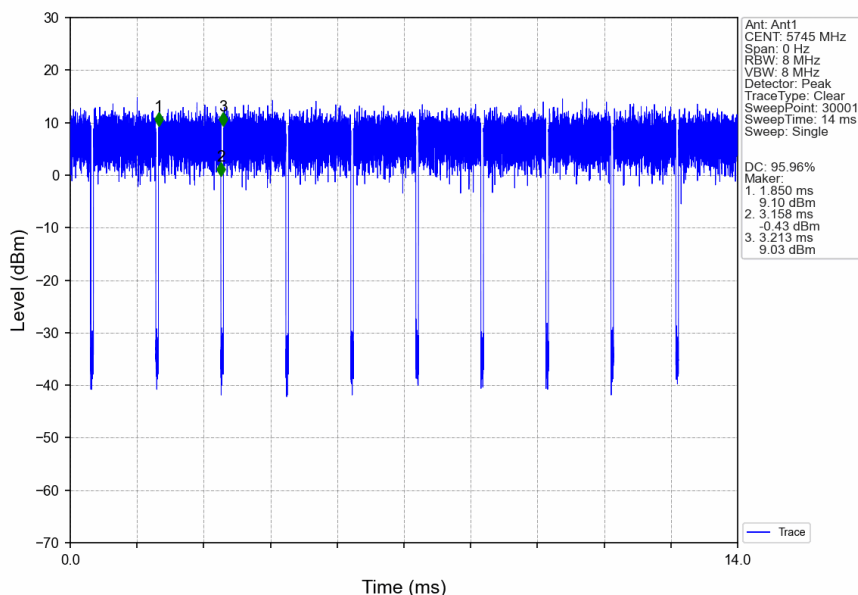
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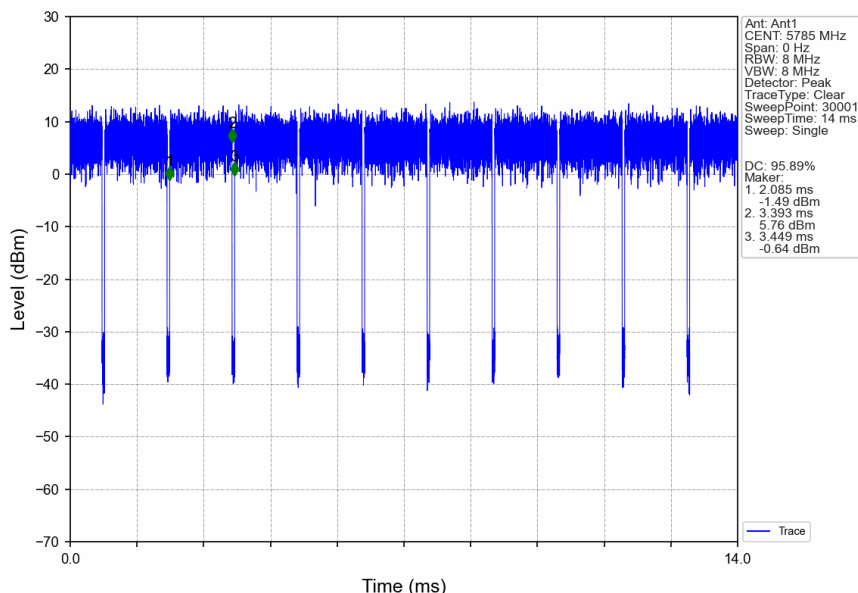
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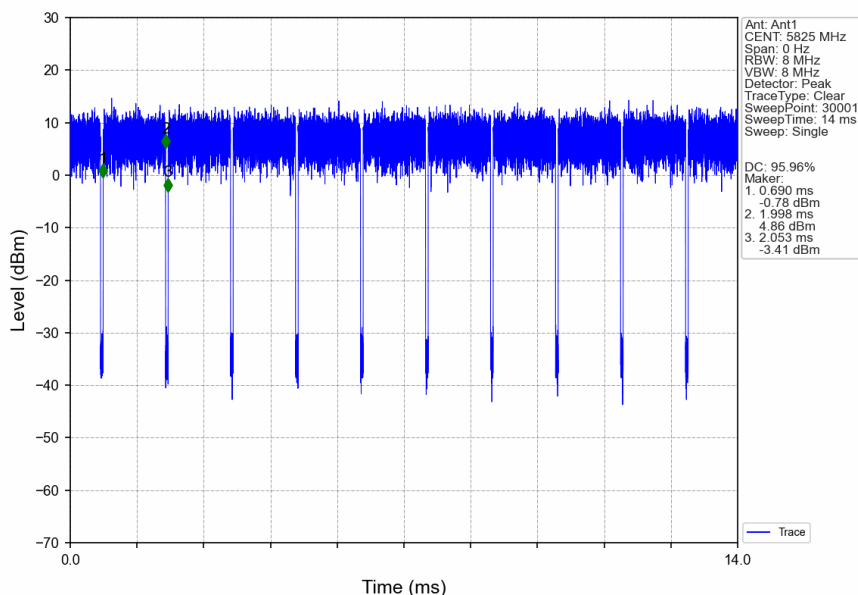
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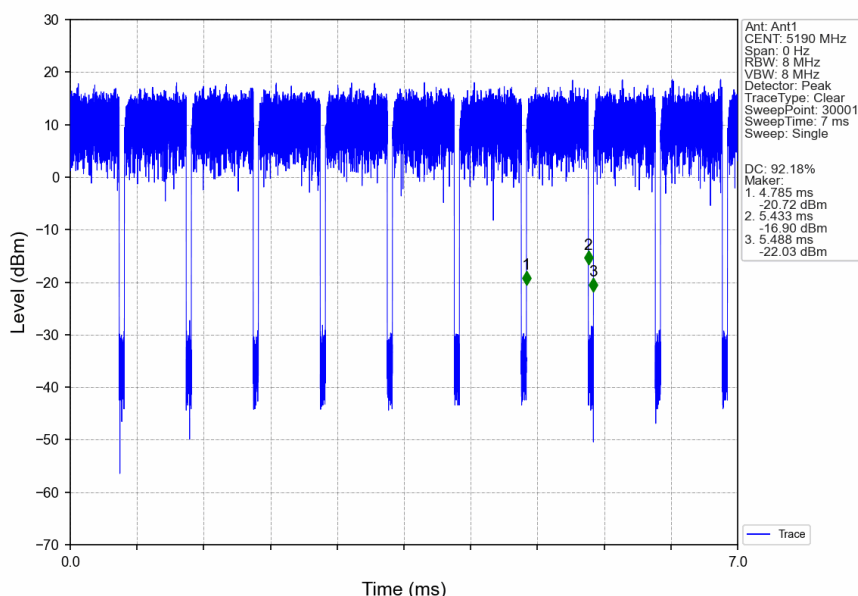
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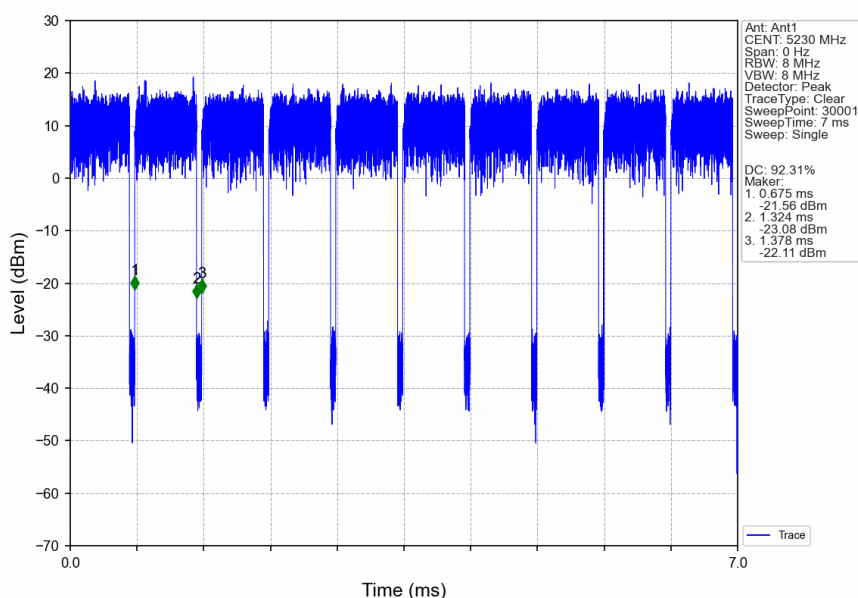
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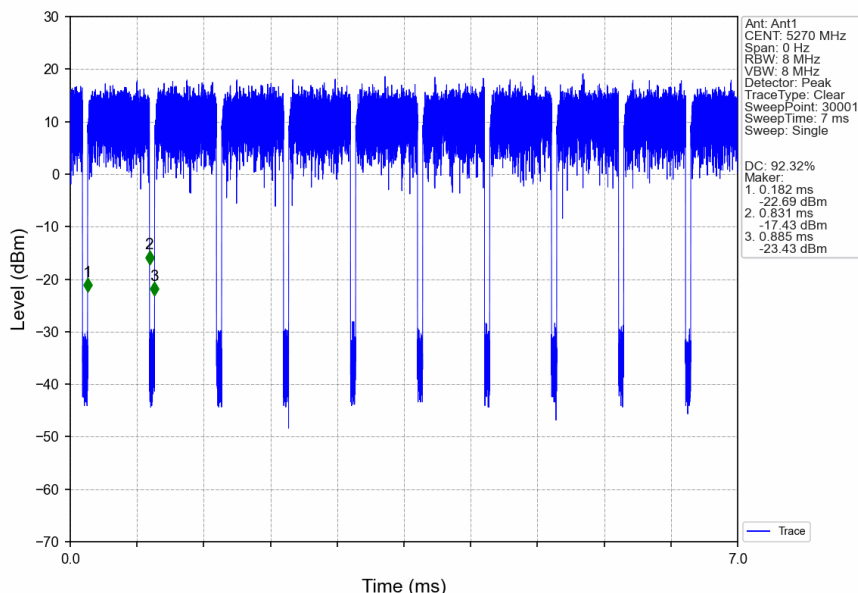
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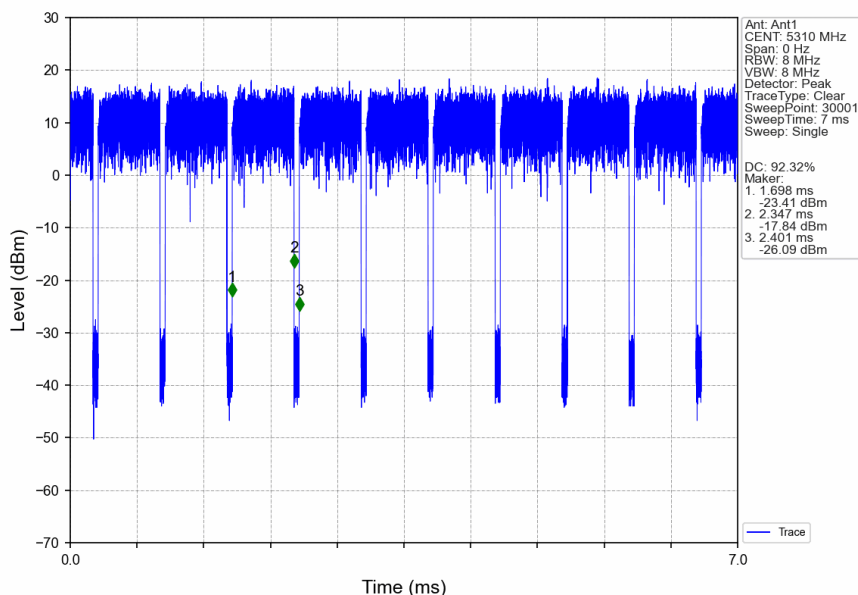
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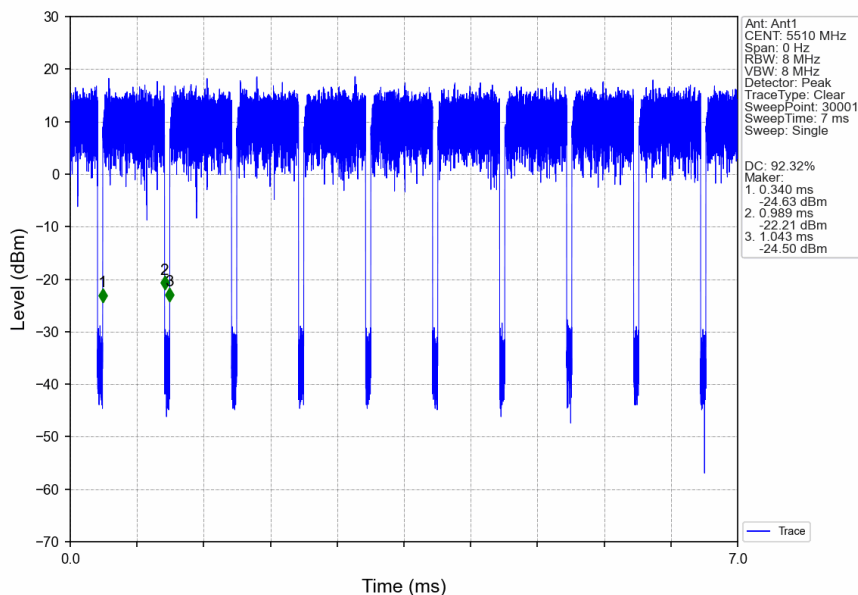
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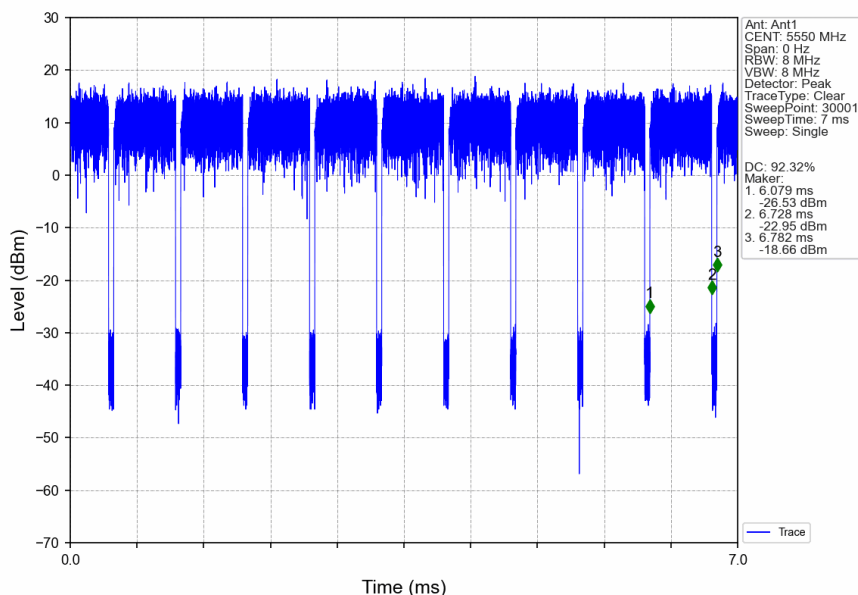
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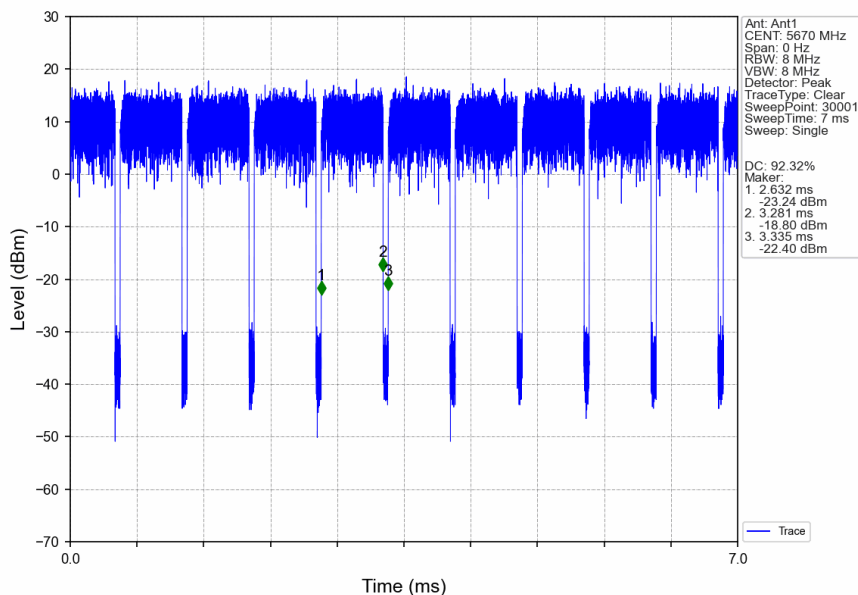
802.11n(HT40)_LCH_5510MHz_Ant1_NTNV



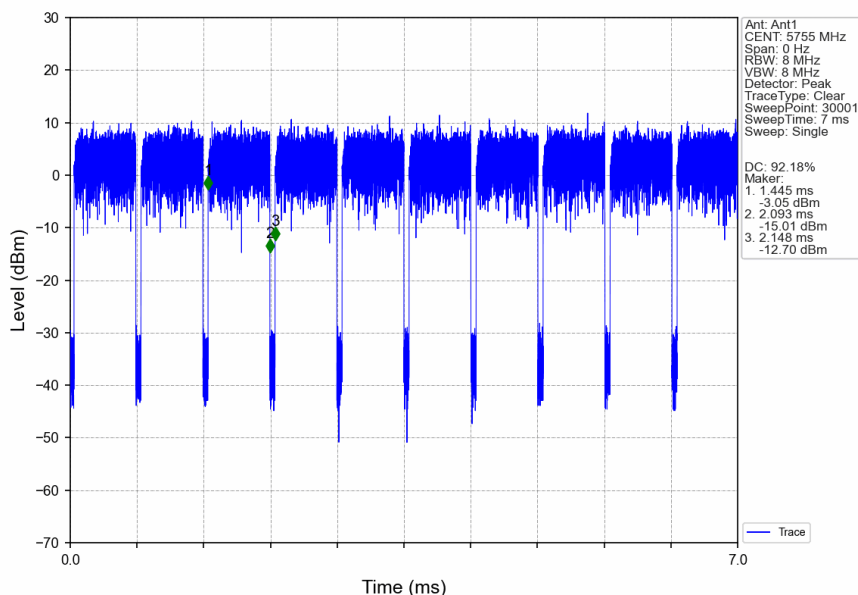
802.11n(HT40)_MCH_5550MHz_Ant1_NTNV



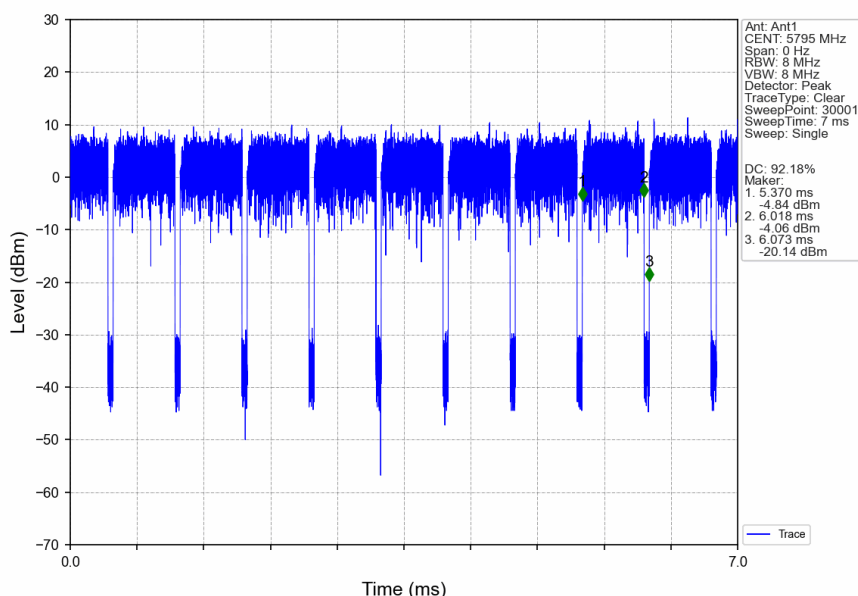
802.11n(HT40)_HCH_5670MHz_Ant1_NTNV



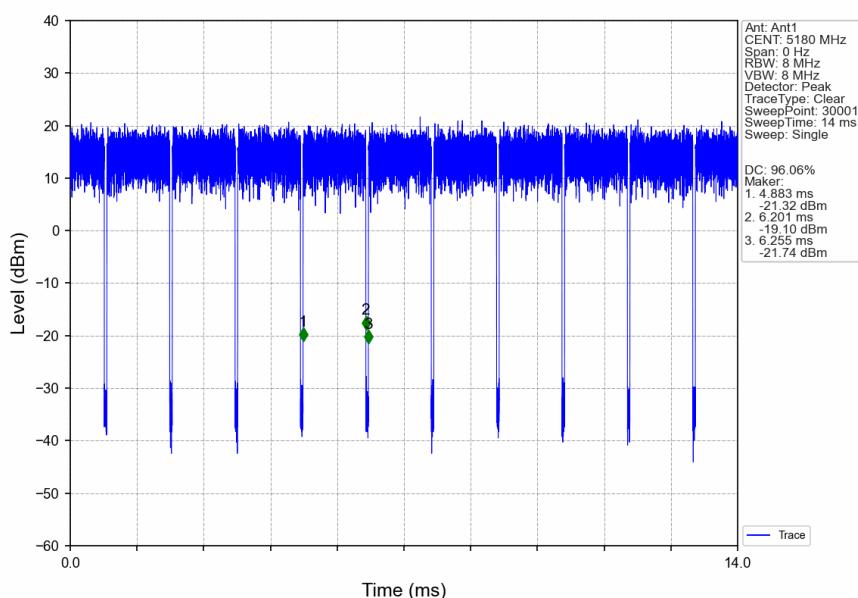
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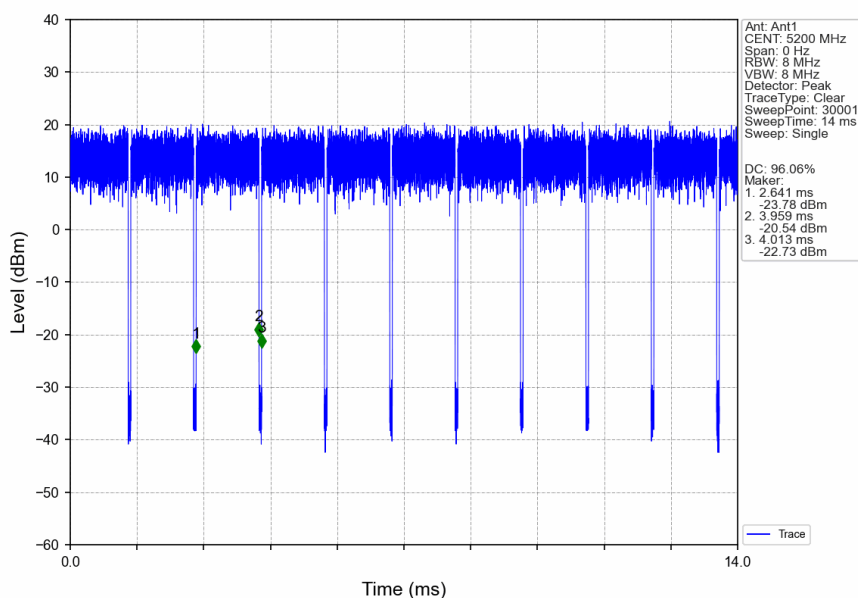
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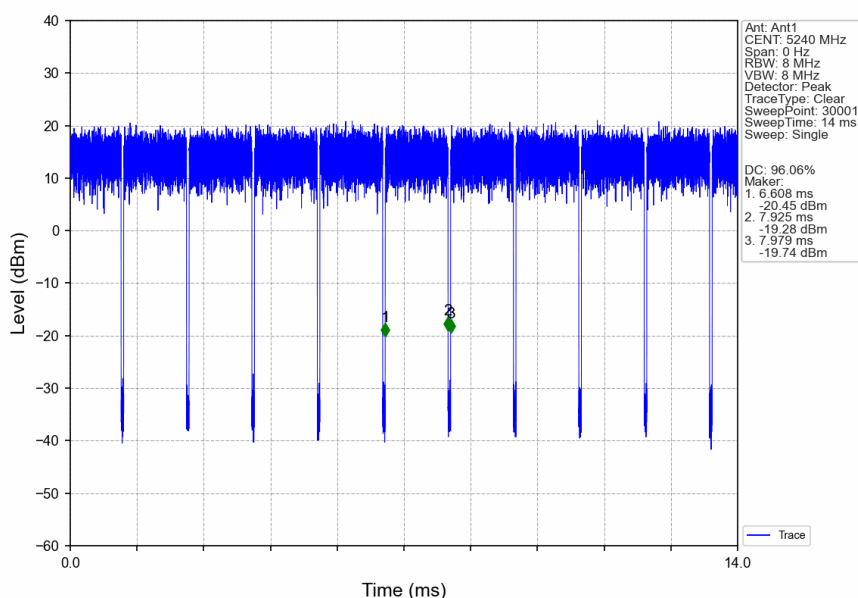
802.11ac(VHT20)_LCH_5180MHz_Ant1_NTNV



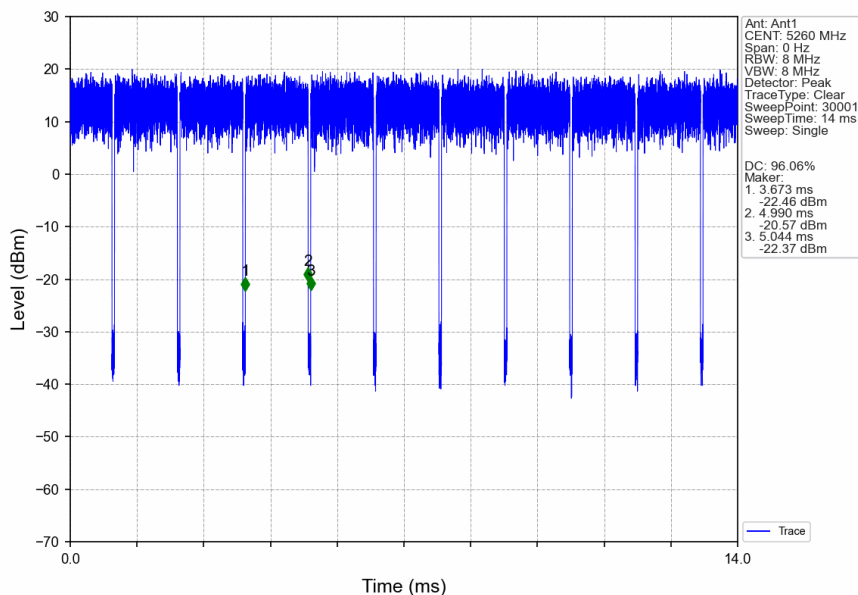
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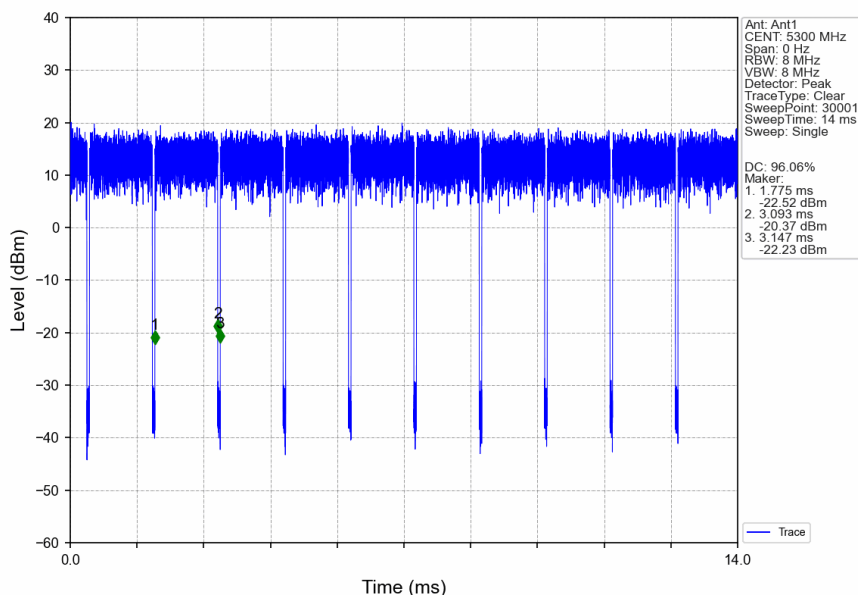
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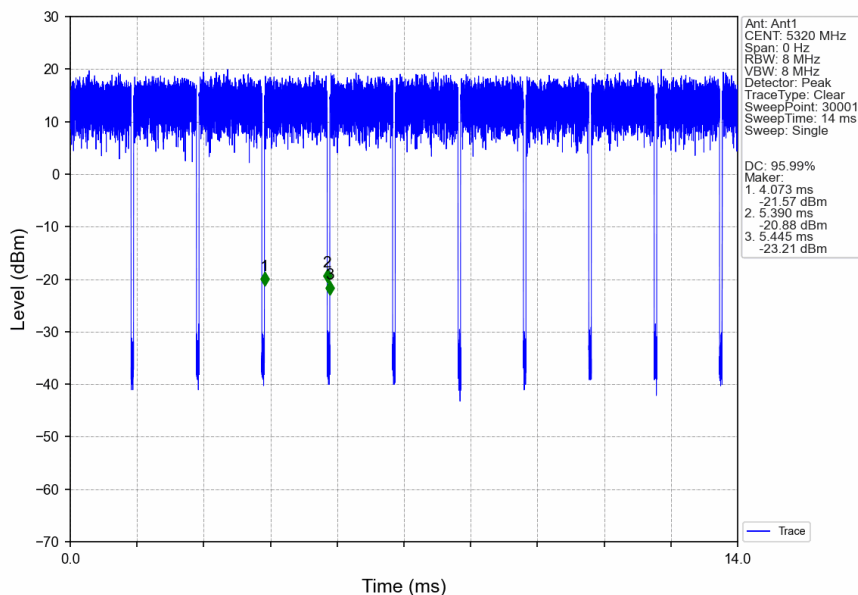
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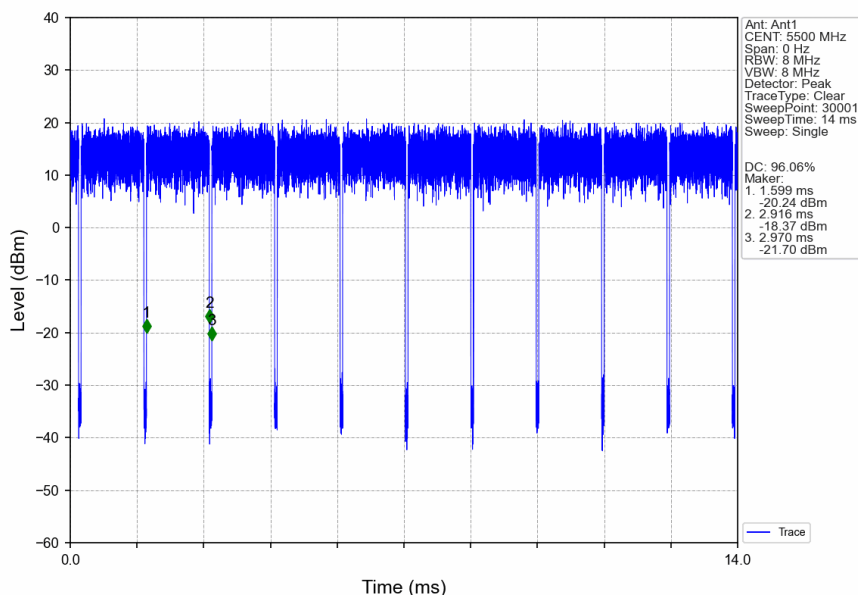
802.11ac(VHT20)_MCH_5300MHz_Ant1_NTNV



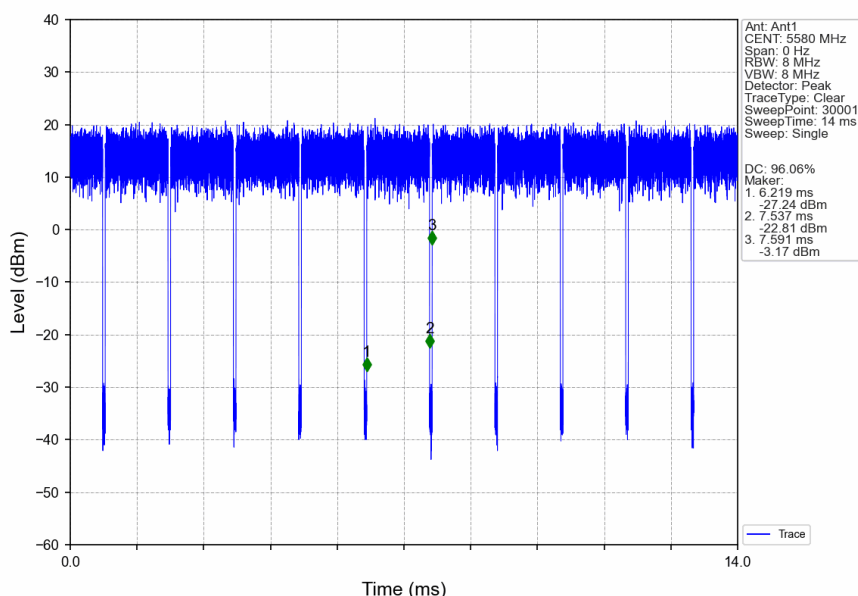
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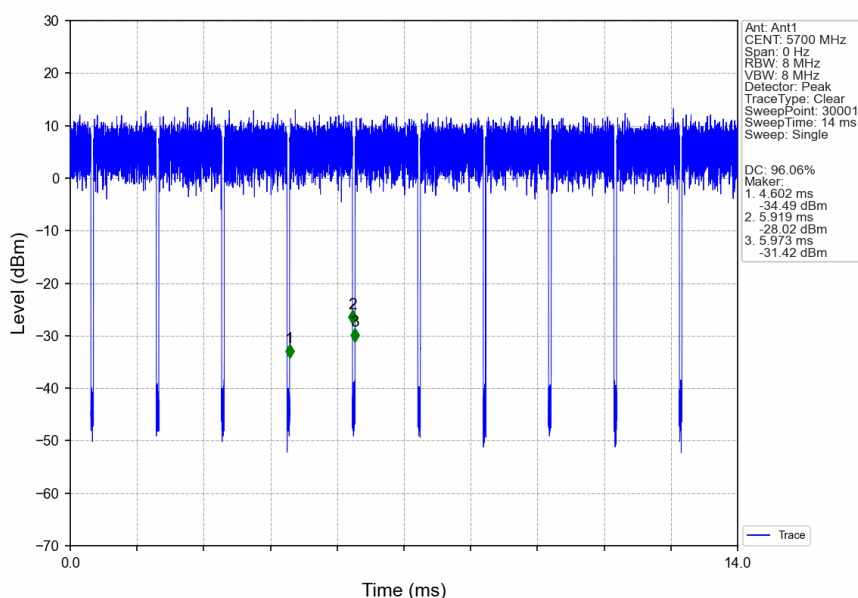
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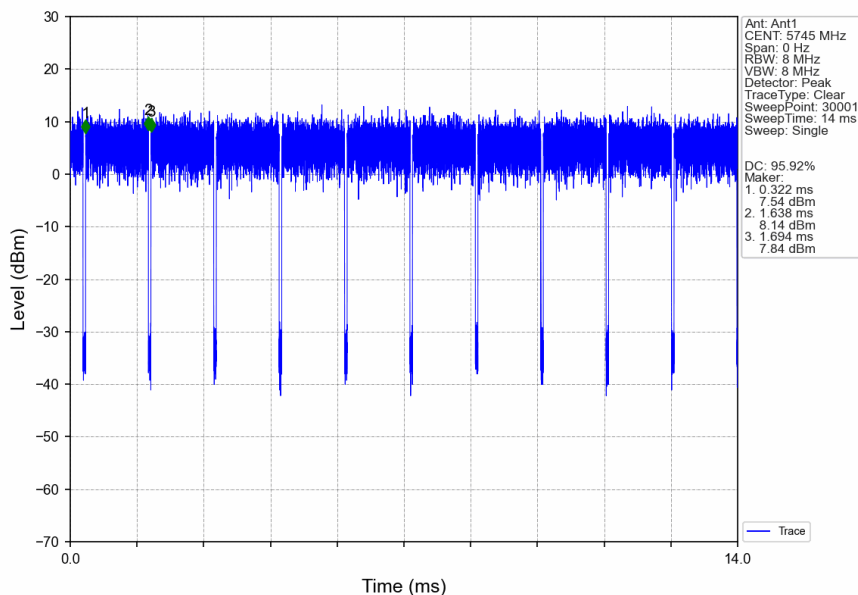
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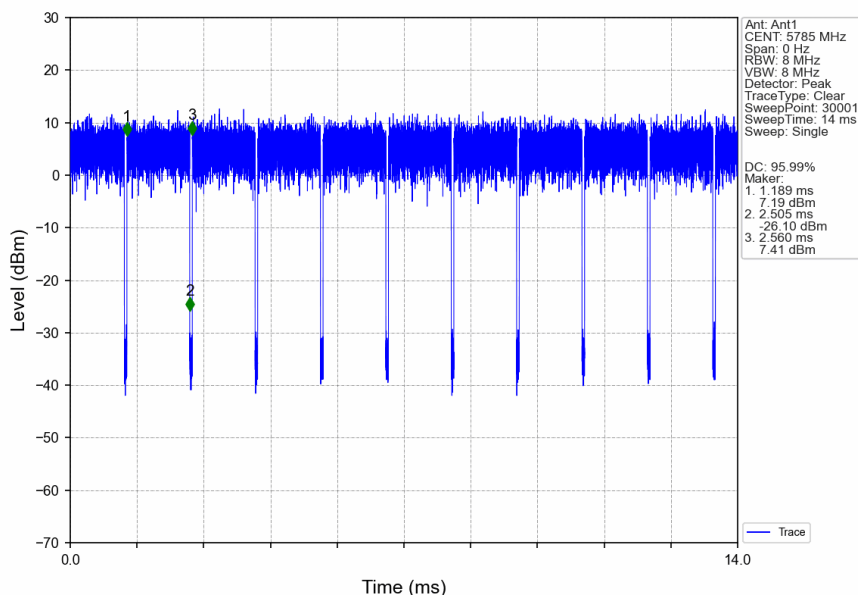
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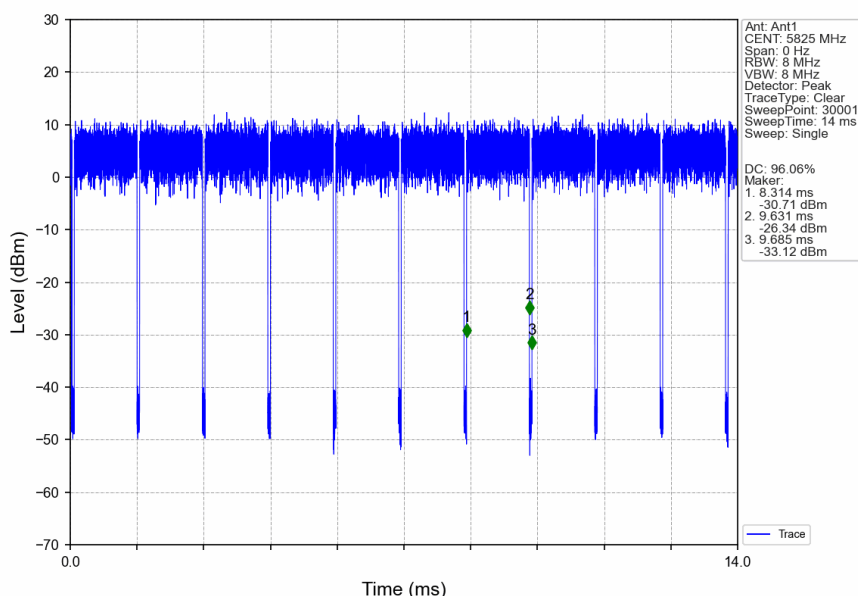
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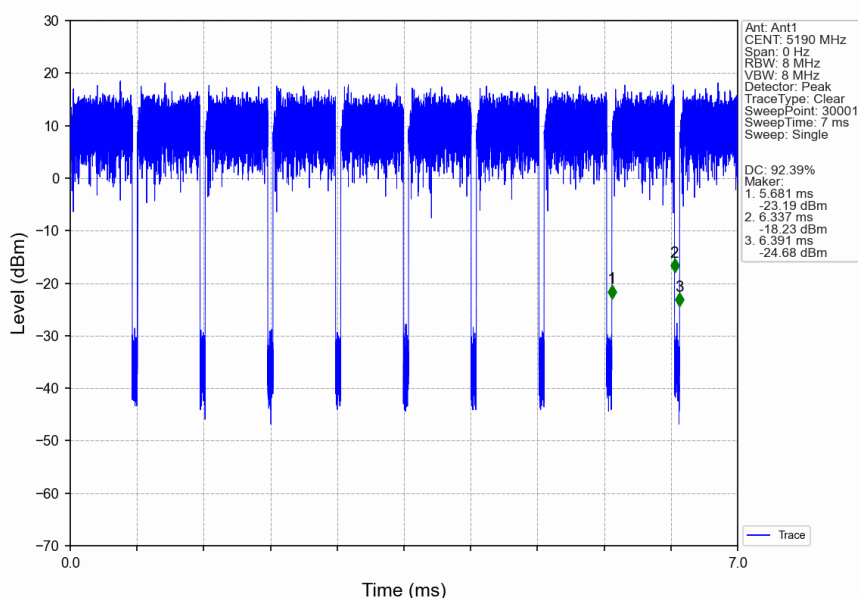
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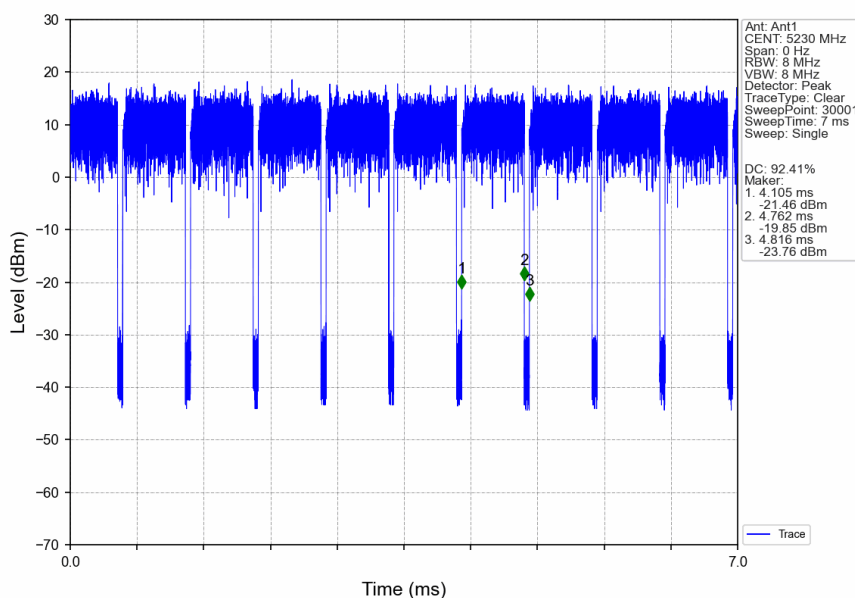
802.11ac(VHT20)_HCH_5825MHz_Ant1_NTNV



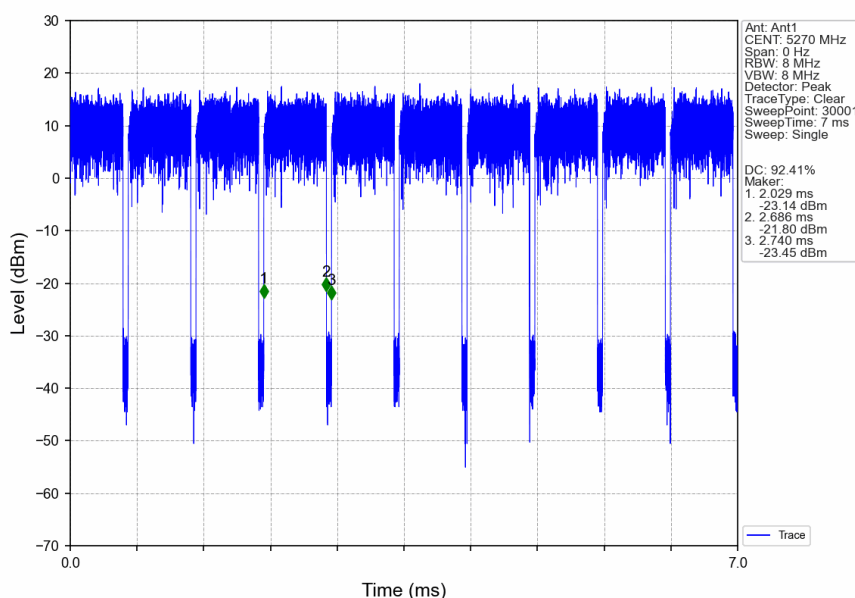
802.11ac(VHT40)_LCH_5190MHz_Ant1_NTNV



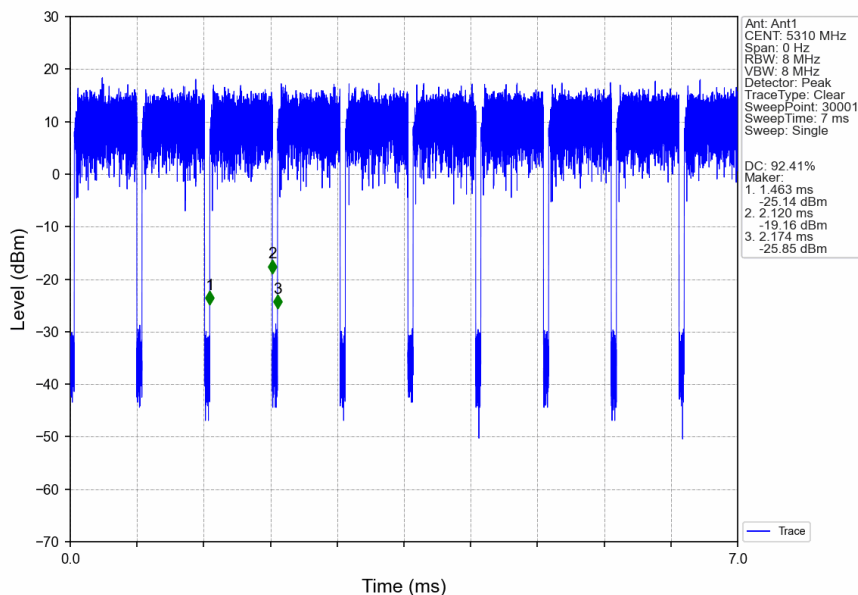
802.11ac(VHT40)_HCH_5230MHz_Ant1_NTNV



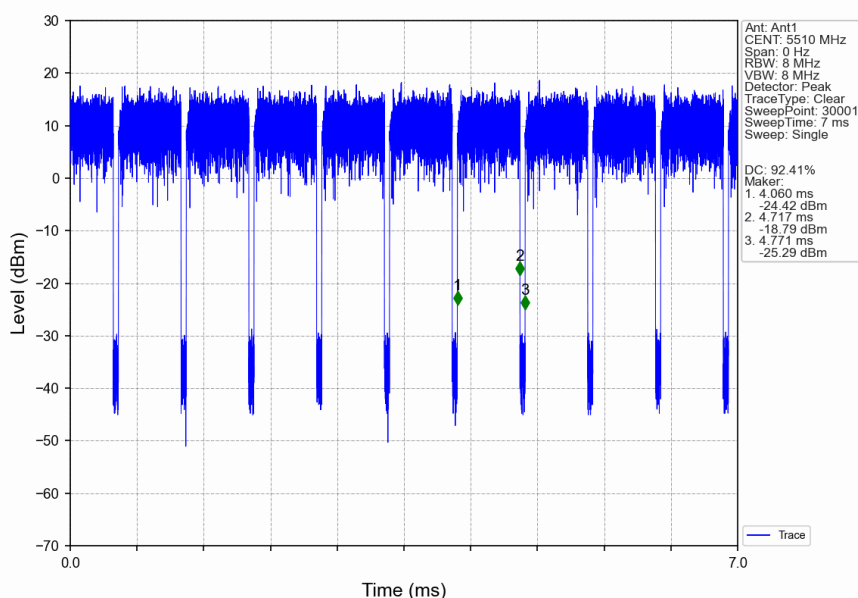
802.11ac(VHT40)_LCH_5270MHz_Ant1_NTNV



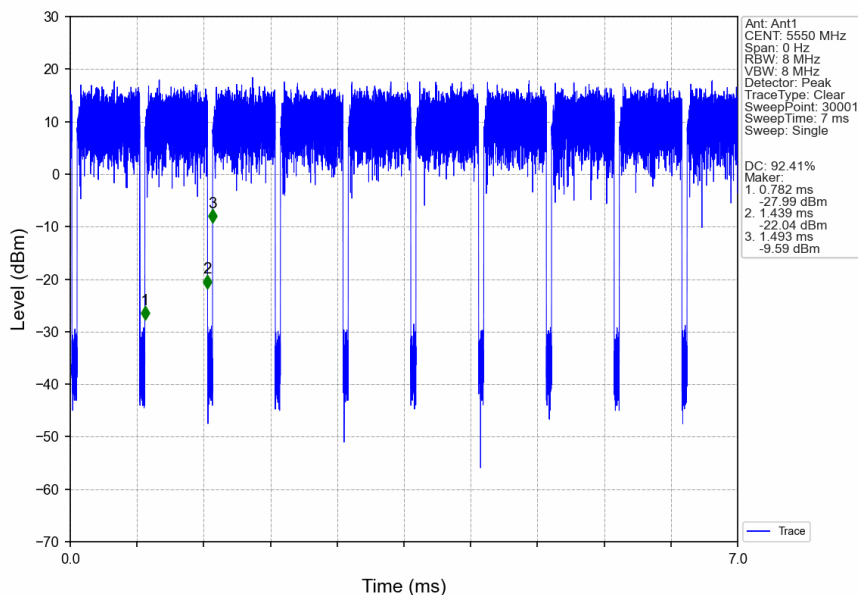
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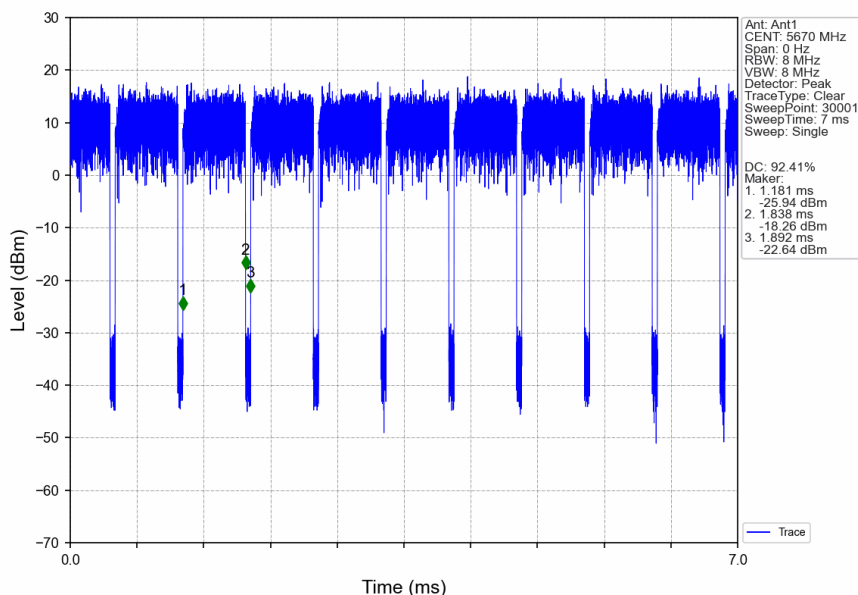
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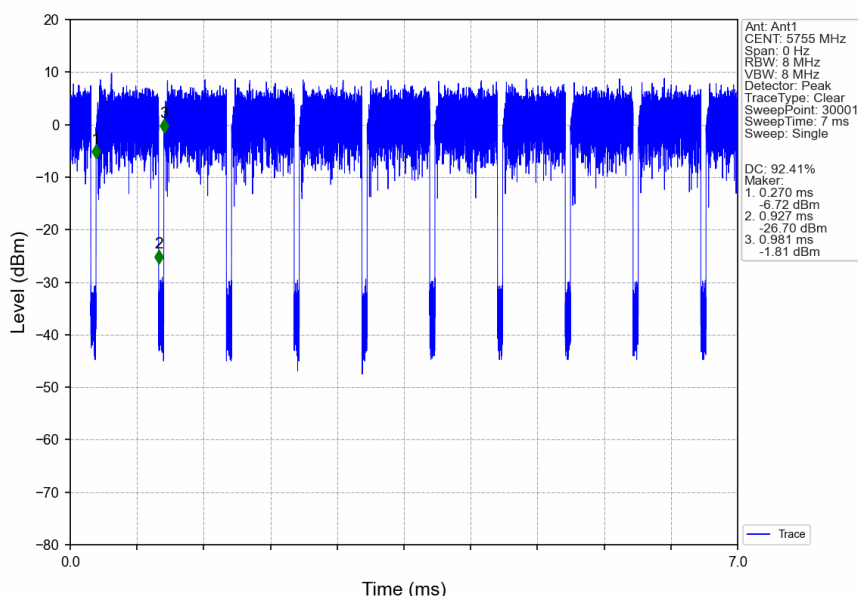
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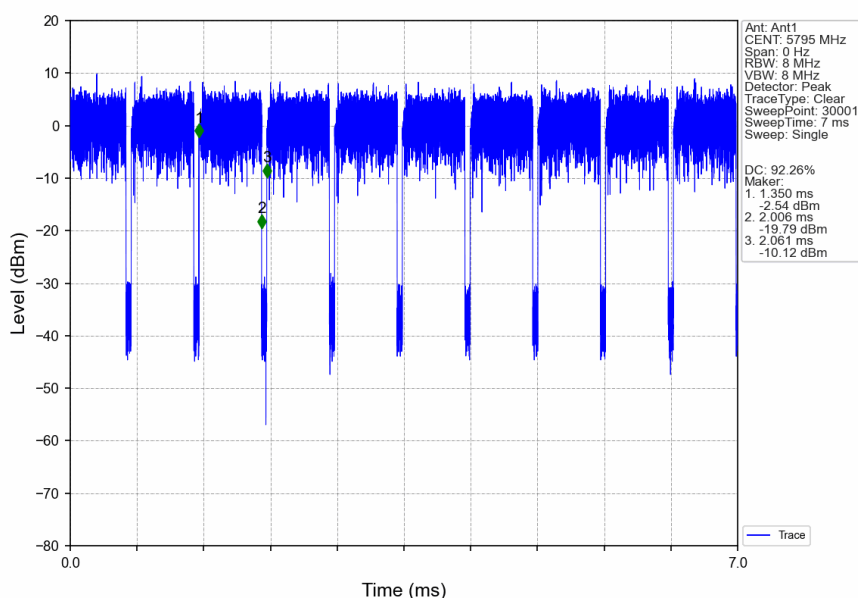
802.11ac(VHT40)_HCH_5670MHz_Ant1_NTNV



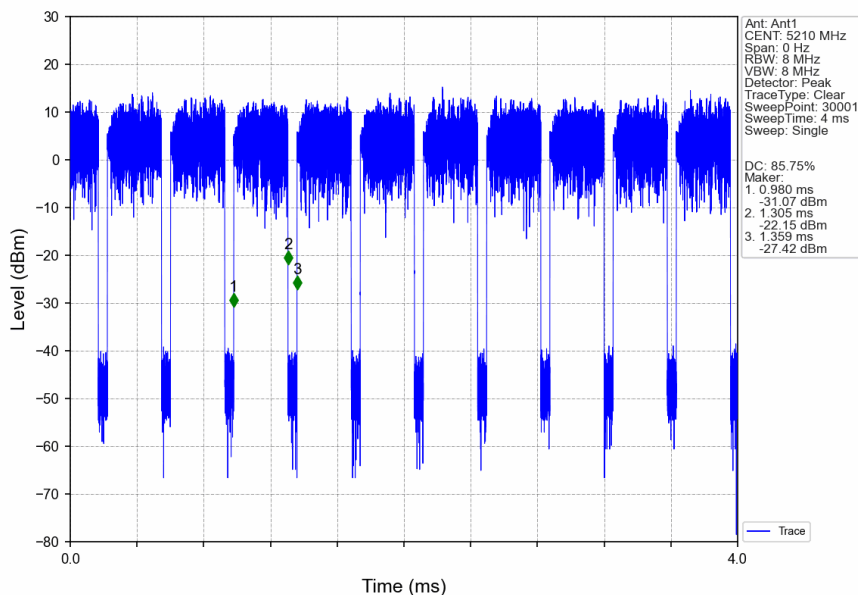
802.11ac(VHT40)_LCH_5755MHz_Ant1_NTNV



802.11ac(VHT40)_HCH_5795MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5210MHz_Ant1_NTNV



802.11ac(VHT80)_MCH_5290MHz_Ant1_NTNV

