

# TEST REPORT

**Application No.:** SZCR2307002331AT  
**Applicant:** Icomera AB  
**Address of Applicant:** Odinsgatan 28, Gothenburg, SE-411 03, Sweden  
**Manufacturer:** Icomera AB  
**Address of Manufacturer:** Odinsgatan 28, Gothenburg, SE-411 03, Sweden  
**Factory:** Thundercomm Technology Co., Ltd  
**Address of Factory:** No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122

### Equipment Under Test (EUT):

**Type of Equipment/EUT name:** Access Point  
**Model Name:** A2-e  
**Type Number:** CDE000832-1, CDE000832-2  
**Brand Name:** ICOMERA  
**HW Version:** R1  
**SW Version:** IWP5  
**FCC ID:** 2AAC2-A2E  
**Standard(s) :** 47 CFR Part 15, Subpart E 15.407  
**Date of Receipt:** 2024-04-19  
**Date of Test:** 2024-04-20 to 2024-10-23  
**Date of Issue:** 2024-10-24

<b>Test Result:</b>	<b>Pass*</b>
---------------------	--------------

\* 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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SZEMC-TRF-01 Rev. A/1

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-10-24		Original

Authorized for issue by:				
		Calvin Weng		
		Calvin Weng/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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## 2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart E 15.407	ANSI C63.10 (2013) Section 6.2	47 CFR Part 15, Subpart C 15.207 & Subpart E 15.407 b(9)	Pass
Duty Cycle		ANSI C63.10 (2013) SECTION 12.2	ANSI C63.10 (2013) SECTION 12.2	Pass
99% Bandwidth		ANSI C63.10 (2013) Section 12.4.2	ANSI C63.10 (2013) Section 12.4.2	Pass
26dB Emission bandwidth		ANSI C63.10 (2013) Section 12.4.1	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Maximum Conducted output power		ANSI C63.10 (2013) Section 12.3	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Peak Power spectrum density		ANSI C63.10 (2013) Section 12.5	47 CFR Part 15, Subpart E 15.407 (a)	Pass
Radiated Emissions (Below 1GHz)		ANSI C63.10 (2013) 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 (2013) 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 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)	Pass
Frequency Stability		ANSI C63.10 (2013) Section 6.8	47 CFR Part 15, Subpart E 15.407 (g)	Pass
In-band Emission(Emission Mask)		ANSI C63.10 (2013) Section 12.5	47 CFR Part 15, Subpart E 15.407 (b)	Pass
Contention Based Protocol		KDB 987597 D02	47 CFR Part 15, Subpart E 15.407 (d)	Pass
Transmitter Power Control		ANSI C63.10 (2013) Section 12.3	47 CFR Part 15, Subpart E 15.407 (d)(10)	Pass



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Remark:

Model No.: A2-e.

There are two versions of A2-e. Type number CDE000832-1 with PoE and CDE000832-2 with Bypass relays.

Only Type Number CDE000832-1 was tested in this report, since the electrical circuit design, layout, internal wiring and components used were similar.

The difference being that CDE000832-1 can be powered by both PoE and DC power, whereas CDE000832-2 can only be powered by DC.

Remark: All configuration has been tested, only worst case of test data is recorded in the report.



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## 4 General Information

### 4.1 Details of E.U.T.

Product brief description:	Wireless Access Point, works as a mobile, high performance Wireless Access Point, foremost intended for rail
Power supply:	DC24V/110V, 3A Or PoE input: DC37-57V, 1.7A
Blockchain Verified QR Code:	
Type of Equipment/ EUT name:	Access Point
Model Name:	A2-e
Type Number:	CDE000832-1, CDE000832-2
Brand Name:	ICOMERA
HW Version:	R1
SW Version:	IWP5
Cable Loss (for RF conducted test):	1.5dB
Operation Frequency:	IEEE 802.11 ax/be(20/40/80/160/320): 5925 MHz ~ 6425 MHz IEEE 802.11 ax/be(20/40/80/160): 6525 MHz ~ 6875 MHz
Number of channels:	20MHz bandwidth: 41 40MHz bandwidth: 20 80MHz bandwidth: 10 160MHz bandwidth: 4 320MHz bandwidth: 2
Modulation Type:	802.11ax: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM) 802.11be: OFDMA (BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM)
Channel Spacing:	802.11ax/be 20: 20MHz 802.11ax/be 40: 40MHz 802.11ax/be 80: 80MHz 802.11ax/be 160: 160MHz 802.11be 320: 320MHz
DFS Function:	Master
Antenna Type:	Dipole Antenna
Antenna Gain:	U-NII-5: Ant1: 4.53dBi, Ant2: 4.70dBi, Ant3: 4.18dBi, Ant4: 4.50dBi U-NII-7: Ant1: 4.09dBi, Ant2: 5.12dBi, Ant3: 4.33dBi, Ant4: 5.08dBi

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## 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)	± 3.1dB
Duty Cycle	± 0.37%
99% Bandwidth	± 3%
26dB Emission bandwidth	± 3%
Maximum Conducted output power	± 0.75dB
Peak Power spectrum density	± 2.84dB
Radiated Emissions (Below 1GHz)	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Emissions (Above 1GHz)	± 4.6dB (1-18GHz); ± 4.8dB (18-40GHz)
Radiated Emissions which fall in the restricted bands	± 6.0dB (below 1GHz); ± 4.6dB (above 1GHz);
Frequency Stability	± 7.25 x 10-8



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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	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESCI	SEM004-02	2024-03-14	2025-03-13
Matching Pad	N/A	N/A	SEM021-23	2024-03-20	2025-03-19
Matching Pad	N/A	N/A	SEM021-24	2024-03-20	2025-03-19
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2023-09-19 2024-09-18	2024-09-18 2025-09-17
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

RF conducted					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2024-03-19	2025-03-18
Signal Generator	KEYSIGHT	N5173B	SEM006-05	2023-09-19	2024-09-18
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-30	2025-03-29
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2024-03-21	2025-03-20

Radiated Emissions (Below 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	2023-10-19 2024-10-18	2024-10-18 2025-10-17
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13

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Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05

## Radiated Emissions (Above 1GHz)

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19 2024-09-18	2024-09-18 2025-09-17
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05

## Radiated Emissions which fall in the restricted bands

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Semi-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2024-03-15	2025-03-14
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19 2024-09-18	2024-09-18 2025-09-17
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07 2024-07-06	2024-07-06 2025-07-05

## General used equipment

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28 2024-07-27	2024-07-27 2025-07-26
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28 2024-07-27	2024-07-27 2025-07-26
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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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

Standard 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an 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 connected externally to the AP. It is always professionally installed and permanently attached to the vehicle or building.

The best case gain of the antenna is U-NII-5: Ant1: 4.53dBi, Ant2: 4.70dBi, Ant3: 4.18dBi, Ant4: 4.50dBi, directional gain: 10.72dBi

U-NII-7: Ant1: 4.09dBi, Ant2: 5.12dBi, Ant3: 4.33dBi, Ant4: 5.08dBi, directional gain: 11.14dBi

Antenna location: Refer to external photo.



## 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:

Wi-Fi 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 (2013) Section 6.2

Limit:

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

\*Decreases with the logarithm of the frequency.

#### 7.1.1 E.U.T. Operation

Operating Environment:

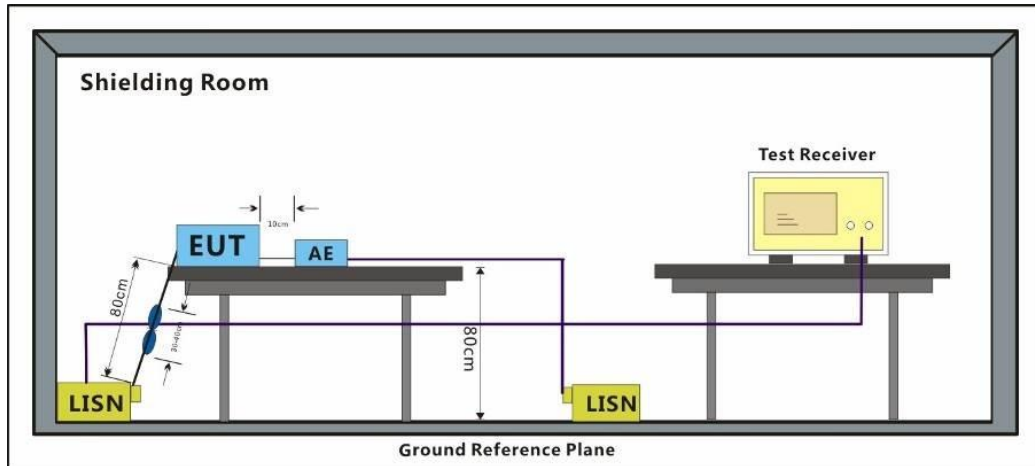
Temperature: 23.4 °C Humidity: 47.3 % RH Atmospheric Pressure: 1000 mbar

#### 7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-5)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	09	TX mode (U-NII-7)_Keep the EUT in continuously transmitting mode with all modulation types. 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: Level=Read Level+ Cable Loss+ LISN Factor



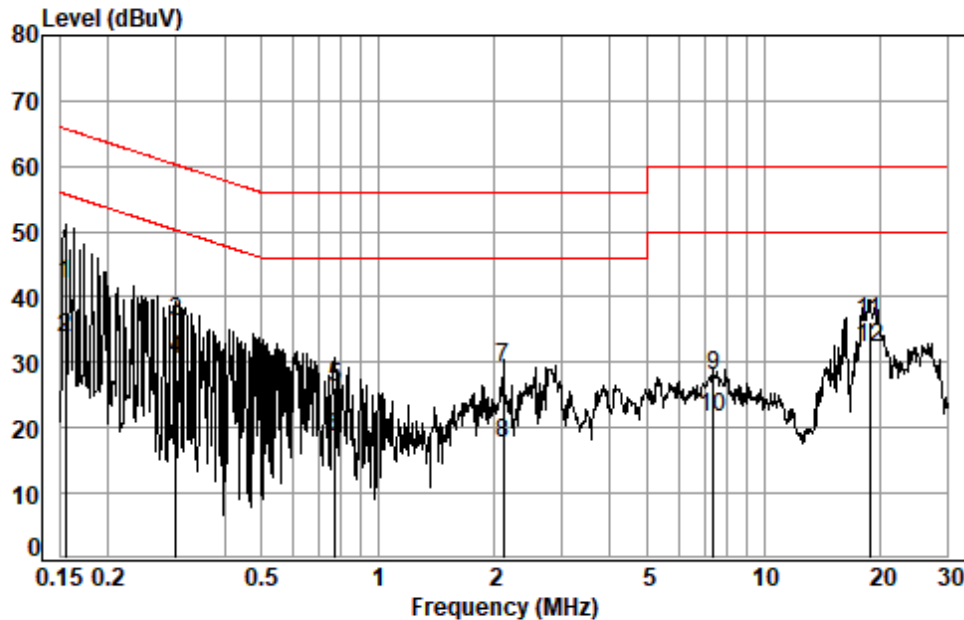
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Test Mode: 07; Line: Live line



Site : Shielding Room  
Condition: Line  
Job No. : 02331AT/02332AT  
Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1548	0.02	9.89	31.97	41.88	65.74	-23.86	QP
2	0.1548	0.02	9.89	23.82	33.73	55.74	-22.01	Average
3	0.3003	0.03	10.01	26.17	36.21	60.24	-24.03	QP
4	0.3003	0.03	10.01	20.46	30.50	50.24	-19.74	Average
5	0.7752	0.05	10.02	15.95	26.02	56.00	-29.98	QP
6	0.7752	0.05	10.02	8.51	18.58	46.00	-27.42	Average
7	2.1101	0.07	10.01	19.00	29.08	56.00	-26.92	QP
8	2.1101	0.07	10.01	7.58	17.66	46.00	-28.34	Average
9	7.4071	0.13	10.12	17.78	28.03	60.00	-31.97	QP
10	7.4071	0.13	10.12	11.28	21.53	50.00	-28.47	Average
11 *	18.8205	0.26	10.21	25.83	36.30	60.00	-23.70	QP
12 *	18.8205	0.26	10.21	21.73	32.20	50.00	-17.80	Average



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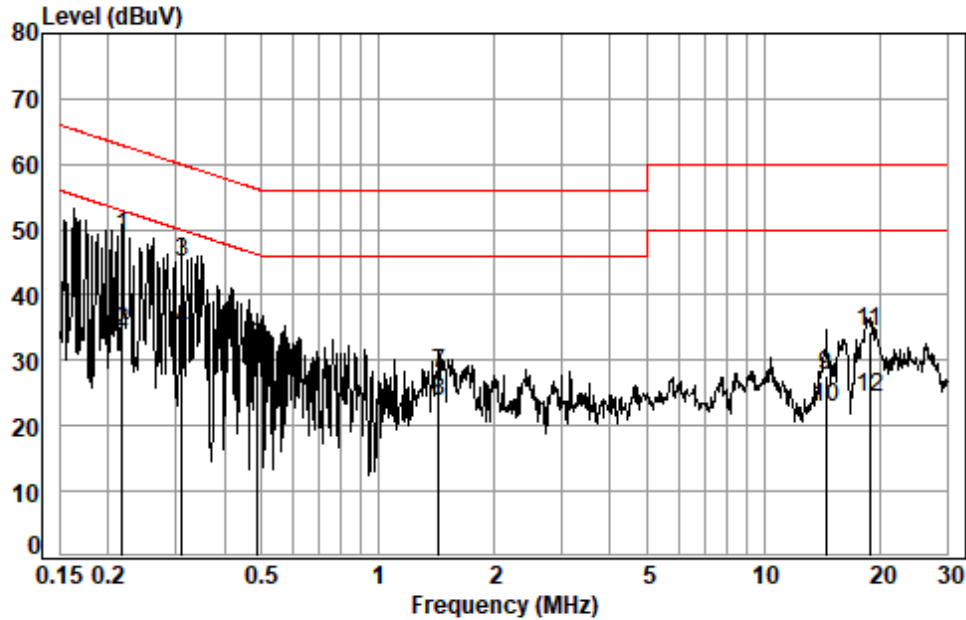
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Test Mode: 07; Line: Neutral Line



Site : Shielding Room  
Condition: Neutral  
Job No. : 02331AT/02332AT  
Test mode: 07

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 *	0.2174	0.03	9.92	39.14	49.09	62.92	-13.83	QP
2	0.2174	0.03	9.92	24.52	34.47	52.92	-18.45	Average
3	0.3116	0.03	9.91	35.22	45.16	59.93	-14.77	QP
4 *	0.3116	0.03	9.91	24.66	34.60	49.93	-15.33	Average
5	0.4837	0.04	9.92	22.01	31.97	56.27	-24.30	QP
6	0.4837	0.04	9.92	19.79	29.75	46.27	-16.52	Average
7	1.4409	0.06	9.96	18.09	28.11	56.00	-27.89	QP
8	1.4409	0.06	9.96	13.84	23.86	46.00	-22.14	Average
9	14.5171	0.22	10.24	17.37	27.83	60.00	-32.17	QP
10	14.5171	0.22	10.24	12.27	22.73	50.00	-27.27	Average
11	18.8205	0.26	10.27	23.84	34.37	60.00	-25.63	QP
12	18.8205	0.26	10.27	13.72	24.25	50.00	-25.75	Average



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### 7.2 Duty Cycle

Test Requirement ANSI C63.10 (2013) SECTION 12.2

Test Method: ANSI C63.10 (2013) SECTION 12.2

#### 7.2.1 E.U.T. Operation

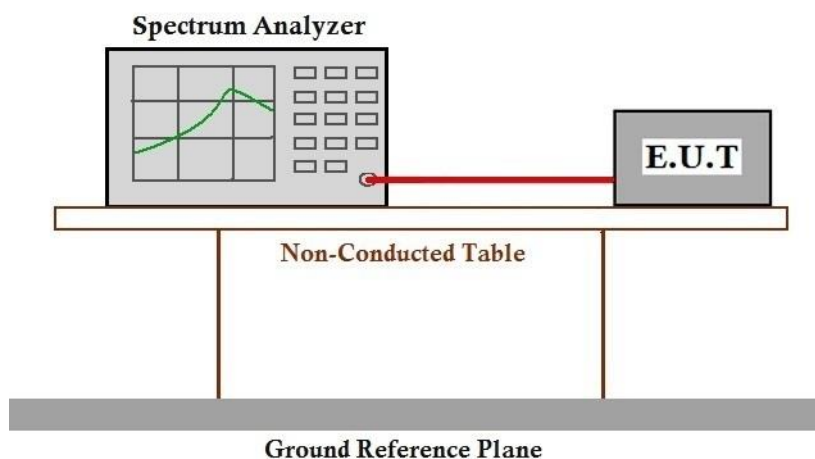
Operating Environment:

Temperature: 20 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

#### 7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-5)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-7)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

#### 7.2.3 Test Setup Diagram



#### 7.2.4 Measurement Procedure and Data

Please Refer to Appendix for Details



### 7.3 99% Bandwidth

Test Requirement ANSI C63.10 (2013) Section 12.4.2

Test Method: ANSI C63.10 (2013) Section 12.4.2

#### 7.3.1 E.U.T. Operation

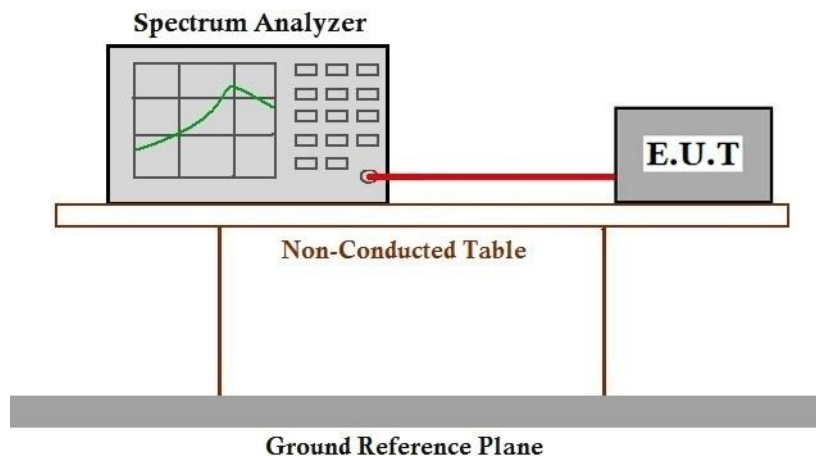
Operating Environment:

Temperature: 20 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

#### 7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-5)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-7)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

#### 7.3.3 Test Setup Diagram



#### 7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details

### 7.4 26dB Emission bandwidth

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

Test Method: ANSI C63.10 (2013) Section 12.4.1

#### 7.4.1 E.U.T. Operation

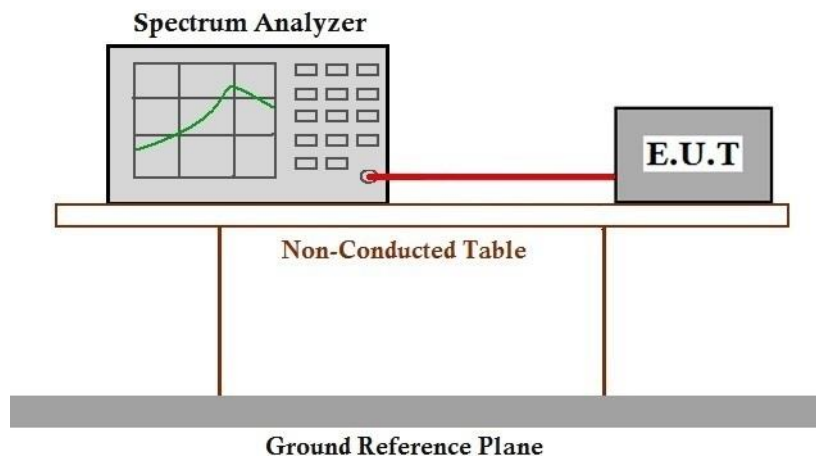
Operating Environment:

Temperature: 20 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

#### 7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-5)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-7)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

#### 7.4.3 Test Setup Diagram



#### 7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details

## 7.5 Maximum Conducted output power

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

Test Method: ANSI C63.10 (2013) Section 12.3

Limit:

Device Type	EIRP Limit	EIRP PSD Limit
Standard power access point	$\leq 36$ dBm	$\leq 23$ dBm/MHz
VLP Device	$\leq 14$ dBm	$\leq -5$ dBm/MHz

### 7.5.1 E.U.T. Operation

Operating Environment:

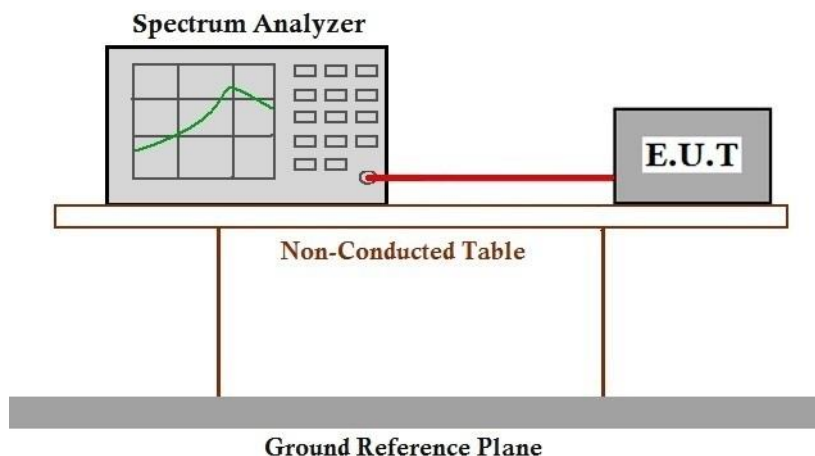
Temperature: 20 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

### 7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-5)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-7)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



### 7.5.3 Test Setup Diagram



### 7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



## 7.6 Peak Power spectrum density

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

Test Method: ANSI C63.10 (2013) Section 12.5

Limit:

Device Type	EIRP Limit	EIRP PSD Limit
Standard power access point	$\leq 36$ dBm	$\leq 23$ dBm/MHz
VLP Device	14 dBm	$\leq -5$ dBm/MHz

### 7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C

Humidity: 45 % RH

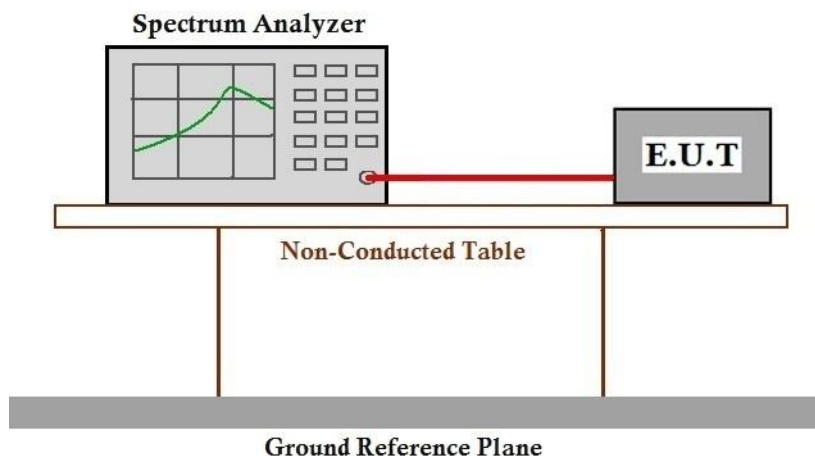
Atmospheric Pressure: 1020 mbar

### 7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-5)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-7)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



### 7.6.3 Test Setup Diagram



### 7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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## 7.7 Radiated Emissions (Below 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2013) 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

### 7.7.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C

Humidity: 47.3 % RH

Atmospheric Pressure: 995 mbar

### 7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-5)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Pre-scan	09	TX mode (U-NII-7)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



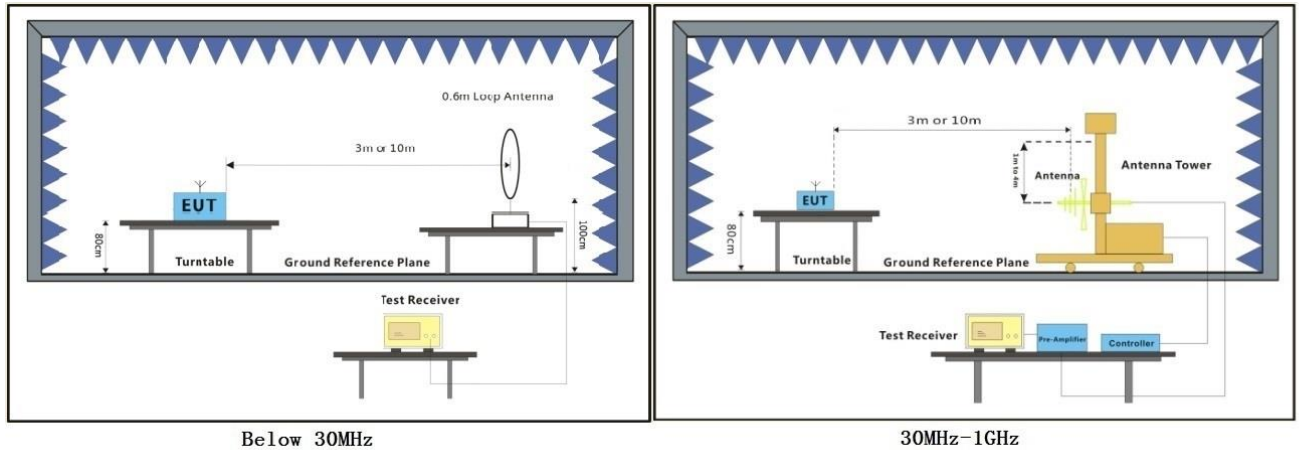
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### 7.7.3 Test Setup Diagram



Below 30MHz

30MHz-1GHz



## 7.7.4 Measurement Procedure and Data

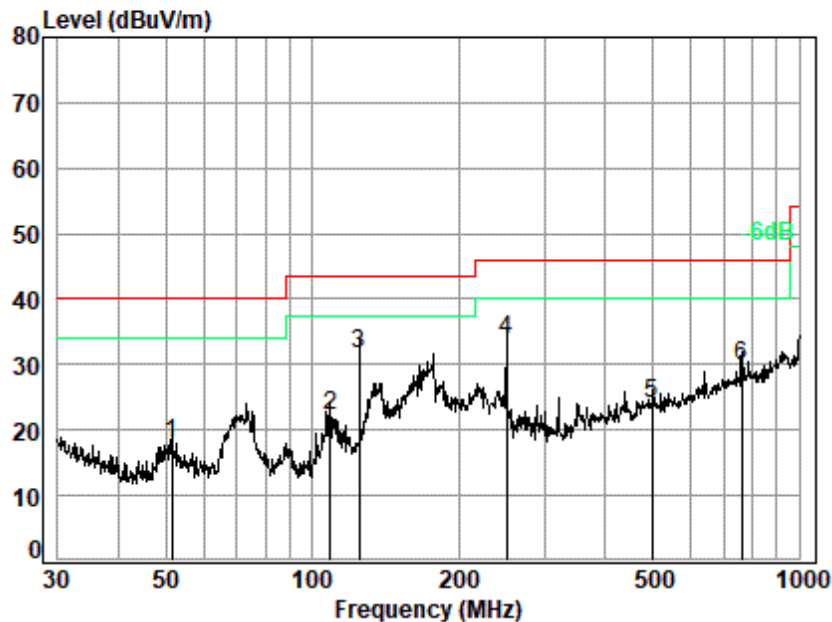
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, 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.



Test Mode: 07; Polarity: Horizontal

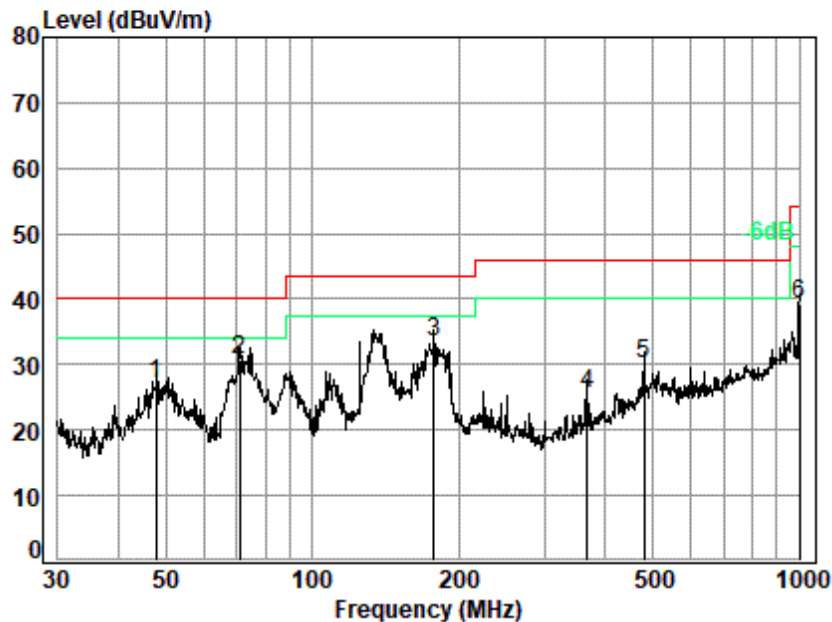


Site : chamber  
Condition: 3m HORIZONTAL  
Job No. : 02331AT  
Test Mode: 07  
: External

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	51.48	12.53	0.84	27.73	32.30	17.94	40.00	-22.06 QP
2	109.03	12.00	1.24	27.55	36.55	22.24	43.50	-21.26 QP
3 q	125.01	10.98	1.33	27.48	46.87	31.70	43.50	-11.80 QP
4	250.30	17.24	1.95	26.96	41.42	33.65	46.00	-12.35 QP
5	499.42	22.90	2.89	27.56	25.79	24.02	46.00	-21.98 QP
6	763.38	26.52	3.71	27.57	27.28	29.94	46.00	-16.06 QP



Test Mode: 07; Polarity: Vertical



Site : chamber  
Condition: 3m VERTICAL  
Job No. : 02331AT  
Test Mode: 07  
: External

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	47.83	13.36	0.81	27.74	40.53	26.96	40.00 -13.04 QP
2 q	70.83	10.57	1.00	27.67	46.75	30.65	40.00 -9.35 QP
3	178.13	14.01	1.61	27.26	45.05	33.41	43.50 -10.09 QP
4	366.82	20.35	2.42	27.02	29.93	25.68	46.00 -20.32 QP
5	480.53	22.75	2.82	27.48	31.98	30.07	46.00 -15.93 QP
6	1000.00	28.26	4.35	26.05	32.58	39.14	54.00 -14.86 QP



## 7.8 Radiated Emissions (Above 1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.209 & Subpart E 15.407(b)

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1GHz	500	3
<p>1. Any emission outside the 5925-7125 MHz frequency band shall not exceed -27 dBm/MHz e.i.r.p. spectral density</p> <p>2. For transmitters operating within the 5.925-7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.</p>		

### 7.8.1 E.U.T. Operation

Operating Environment:

Temperature: 24.2 °C

Humidity: 55.0 % RH

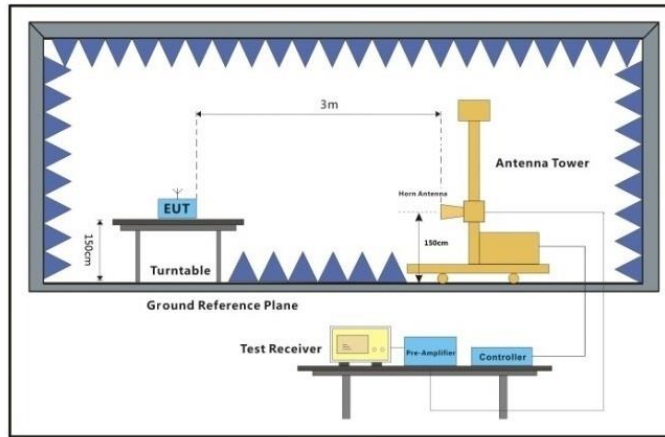
Atmospheric Pressure: 995 mbar

### 7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-5)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-7)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



### 7.8.3 Test Setup Diagram



Above 1GHz



## 7.8.4 Measurement Procedure and Data

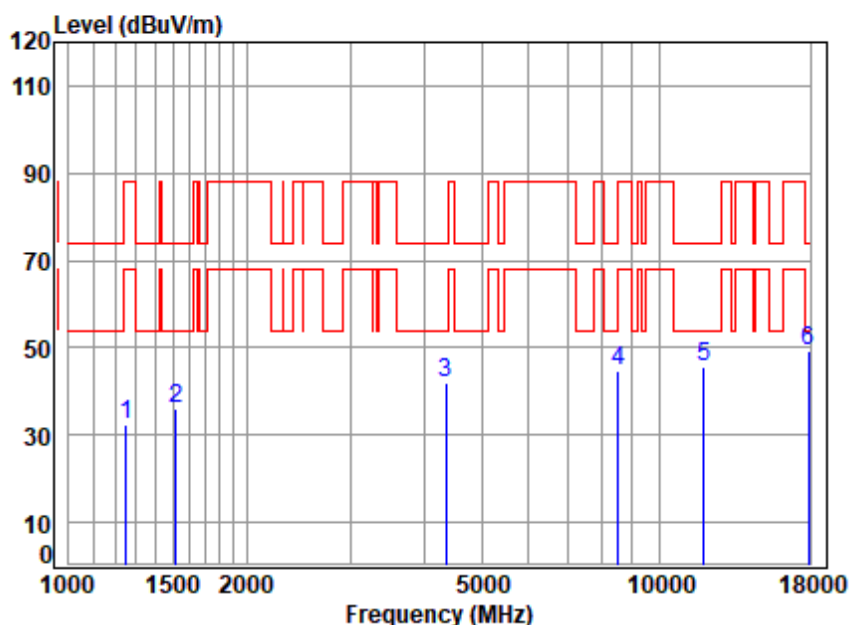
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which 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.



Test Mode: 07; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low

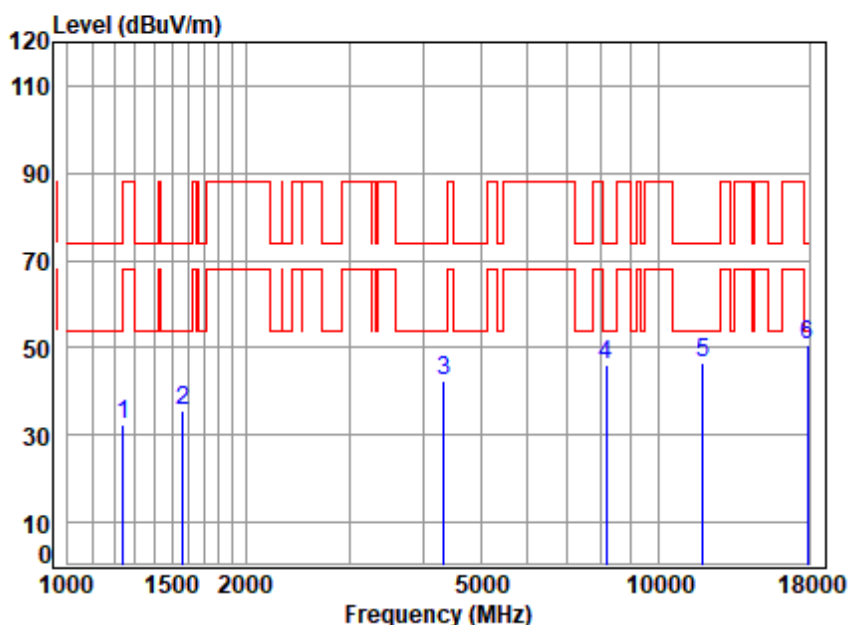


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 5955 TX RSE  
Note : 6E WIFI 11AX20  
: External ant

	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	1252.885	3.75	25.08	61.57	65.16	32.42	88.20	-55.78	peak
2	1516.210	4.06	26.86	61.66	66.64	35.90	74.00	-38.10	peak
3	4354.454	7.08	34.44	61.50	62.05	42.07	74.00	-31.93	peak
4	8514.456	9.54	36.73	61.81	60.04	44.50	88.20	-43.70	peak
5	11910.000	11.96	37.71	62.71	58.87	45.83	74.00	-28.17	peak
6	17865.000	15.32	43.90	61.02	51.20	49.40	74.00	-24.60	peak



Test Mode: 07; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 5955 TX RSE  
Note : 6E WIFI 11AX20  
: External ant

		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	1242.068	3.74	24.99	61.57	65.31	32.47	88.20	-55.73	peak
2	1565.191	4.14	26.94	61.68	66.01	35.41	74.00	-38.59	peak
3	4341.886	7.07	34.34	61.49	62.32	42.24	74.00	-31.76	peak
4	8153.195	9.19	36.51	61.69	62.08	46.09	74.00	-27.91	peak
5	11910.000	11.96	37.71	62.71	59.47	46.43	74.00	-27.57	peak
6	p17865.000	15.32	43.90	61.02	52.60	50.80	74.00	-23.20	peak



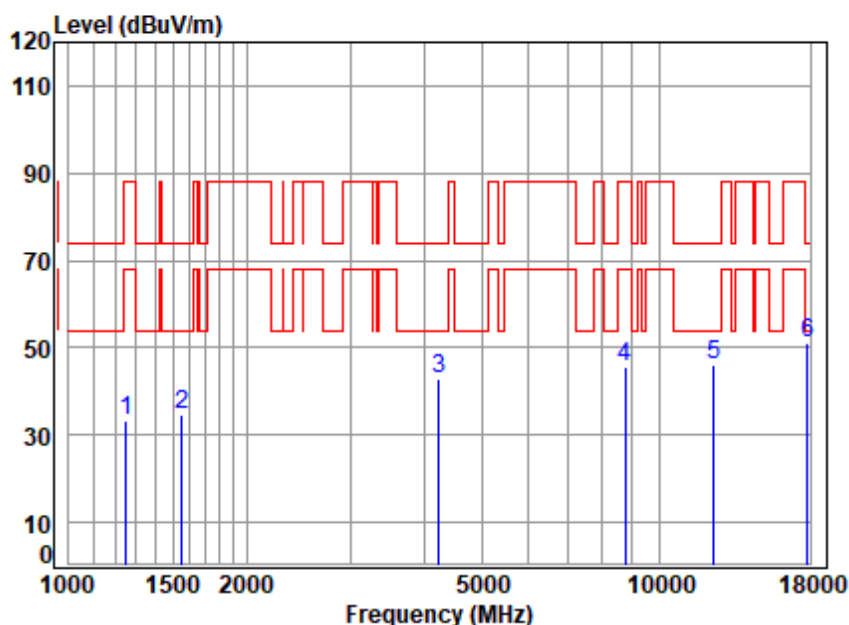
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233114

Page: 36 of 403

Test Mode: 07; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: middle



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6175 TX RSE  
Note : 6E WIFI 11AX20  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.75	25.09	61.57	65.83	33.10	88.20	-55.10	peak
2	1551.677	4.12	26.99	61.67	65.08	34.52	74.00	-39.48	peak
3	4230.396	6.94	33.80	61.39	63.38	42.73	74.00	-31.27	peak
4	8764.146	9.74	36.96	61.89	60.73	45.54	88.20	-42.66	peak
5	12350.000	12.02	37.90	62.71	58.73	45.94	74.00	-28.06	peak
6	p17844.590	15.29	43.90	61.04	53.10	51.25	74.00	-22.75	peak



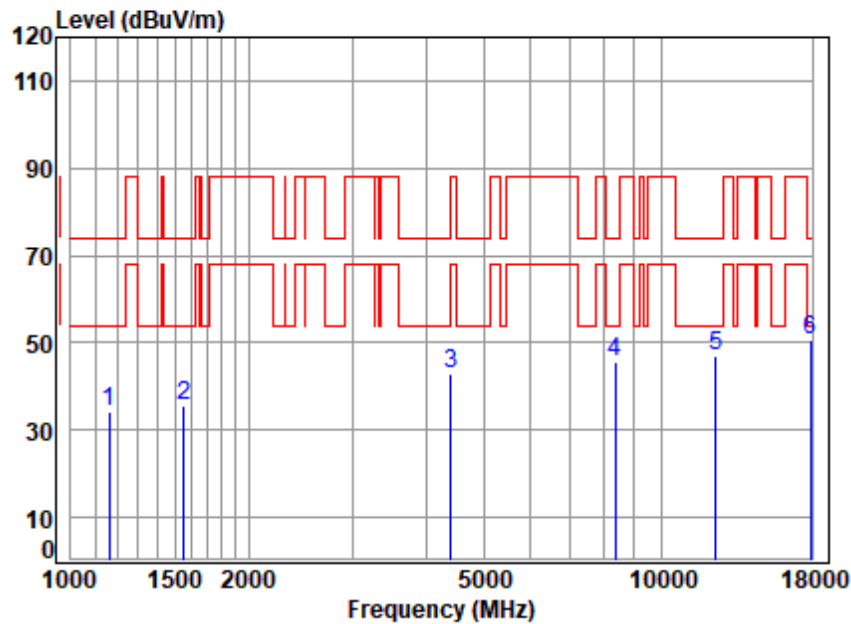
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch

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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: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

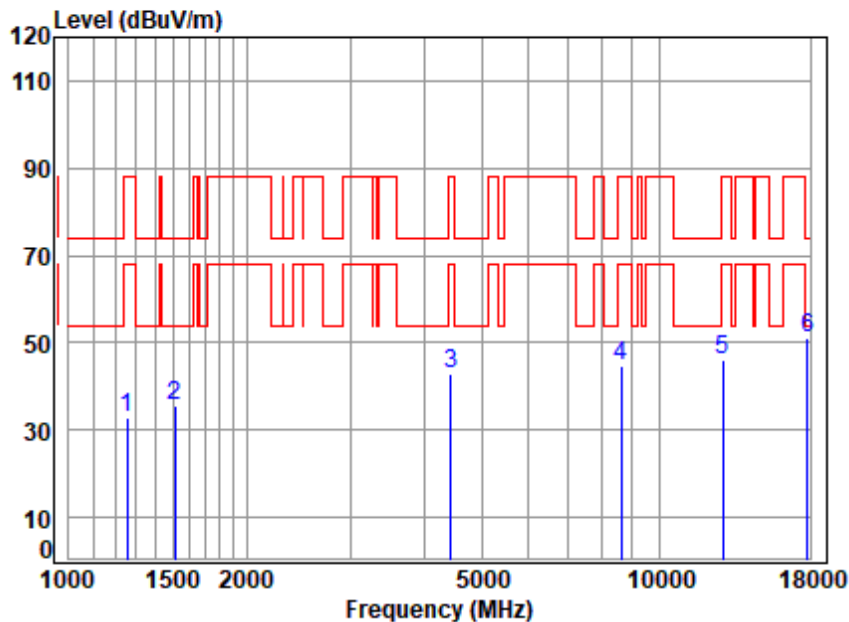


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6175 TX RSE  
Note : 6E WIFI 11AX20  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1162.182	3.63	24.02	61.54	67.91	34.02	74.00	-39.98	peak
2	1551.677	4.12	26.99	61.67	65.93	35.37	74.00	-38.63	peak
3	4405.090	7.14	34.74	61.55	62.51	42.84	88.20	-45.36	peak
4	8343.918	9.38	36.70	61.76	61.11	45.43	74.00	-28.57	peak
5	12350.000	12.02	37.90	62.71	59.98	47.19	74.00	-26.81	peak
6	p17896.250	15.35	43.90	60.99	52.33	50.59	74.00	-23.41	peak



Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

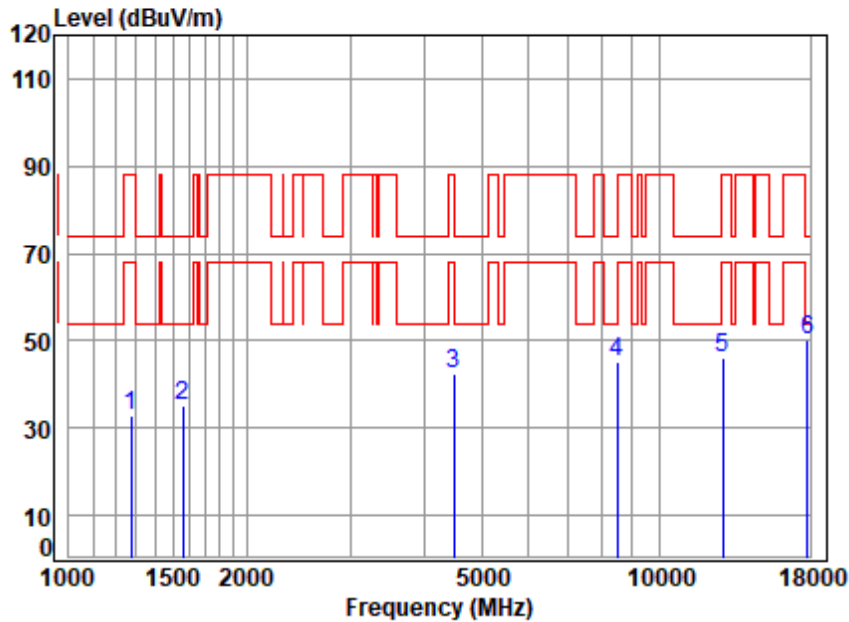


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6415 TX RSE  
Note : 6E WIFI 11AX20  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.76	25.06	61.58	65.53	32.77	88.20	-55.43	peak
2	1511.833	4.06	26.85	61.66	66.23	35.48	74.00	-38.52	peak
3	4443.453	7.19	34.28	61.58	62.81	42.70	88.20	-45.50	peak
4	8613.468	9.62	36.90	61.85	60.00	44.67	88.20	-43.53	peak
5	12830.000	12.16	38.13	62.68	58.60	46.21	88.20	-41.99	peak
6	17844.590	15.29	43.90	61.04	53.05	51.20	74.00	-22.80	peak



Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

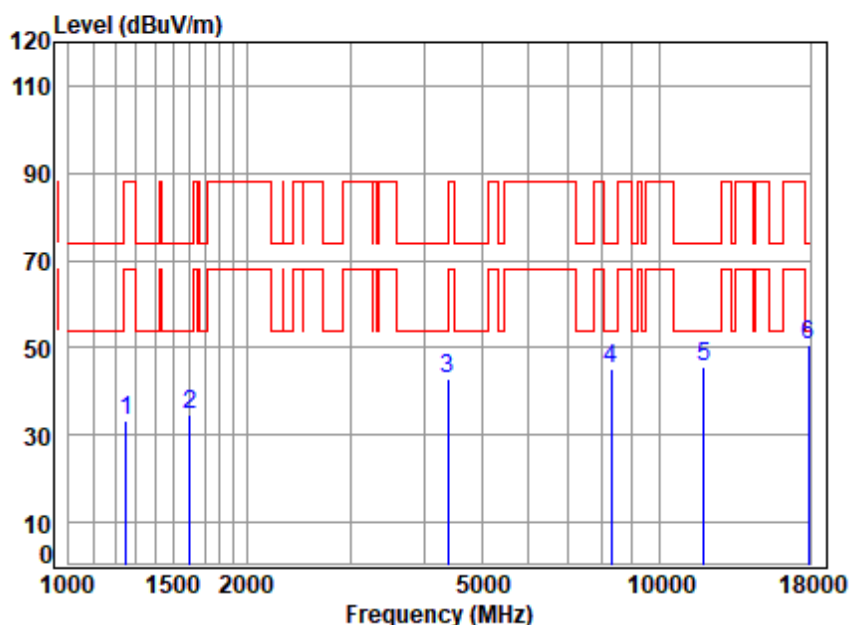


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6415 TX RSE  
Note : 6E WIFI 11AX20  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1274.802	3.78	24.95	61.58	65.53	32.68	88.20	-55.52	peak
2	1560.673	4.13	26.96	61.68	65.64	35.05	74.00	-38.95	peak
3	4495.125	7.24	33.66	61.62	63.32	42.60	88.20	-45.60	peak
4	8489.882	9.52	36.68	61.81	61.00	45.39	74.00	-28.61	peak
5	12830.000	12.16	38.13	62.68	58.40	46.01	88.20	-42.19	peak
6	p17844.590	15.29	43.90	61.04	51.88	50.03	74.00	-23.97	peak



Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(52 RU); Bandwidth:20MHz; Channel:Low

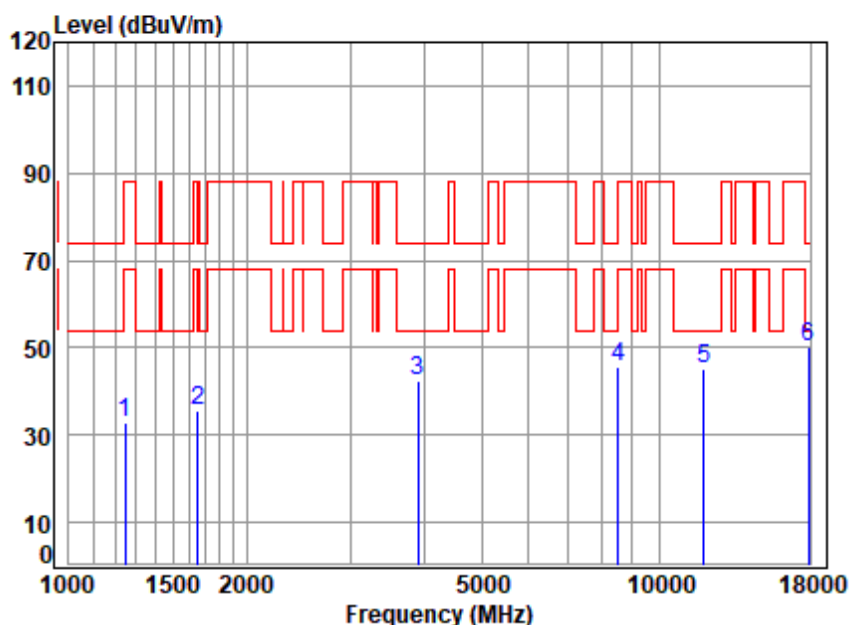


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 5955 TX RSE  
Note : 6E WIFI 11AX20 Partial RU  
: External ant

	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	1252.885	3.75	25.08	61.57	65.91	33.17	88.20	-55.03	peak
2	1601.804	4.19	26.78	61.69	65.53	34.81	74.00	-39.19	peak
3	4379.699	7.11	34.64	61.52	62.83	43.06	74.00	-30.94	peak
4	8295.823	9.33	36.70	61.74	61.06	45.35	74.00	-28.65	peak
5	11910.000	11.96	37.71	62.71	58.44	45.40	74.00	-28.60	peak
6	p17865.000	15.32	43.90	61.02	52.38	50.58	74.00	-23.42	peak



Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(52 RU); Bandwidth:20MHz; Channel:Low

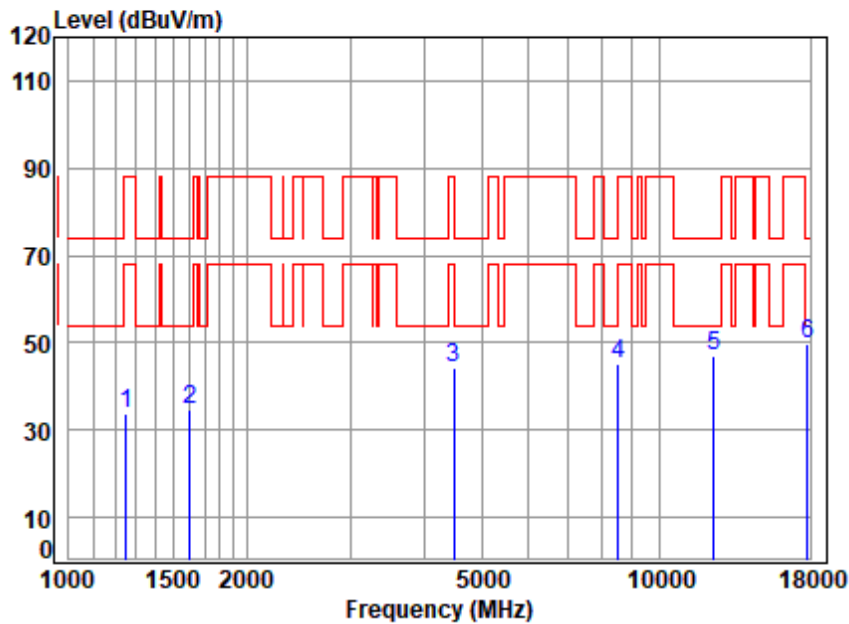


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 5955 TX RSE  
Note : 6E WIFI 11AX20 Partial RU  
: External ant

		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	1245.663	3.74	25.04	61.57	65.74	32.95	88.20	-55.25	peak
2	1653.550	4.26	26.29	61.70	66.54	35.39	88.20	-52.81	peak
3	3901.516	6.63	33.79	61.19	63.03	42.26	74.00	-31.74	peak
4	8514.456	9.54	36.73	61.81	61.31	45.77	88.20	-42.43	peak
5	11910.000	11.96	37.71	62.71	58.34	45.30	74.00	-28.70	peak
6	p17865.000	15.32	43.90	61.02	52.03	50.23	74.00	-23.77	peak



Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(52 RU); Bandwidth:20MHz; Channel:middle

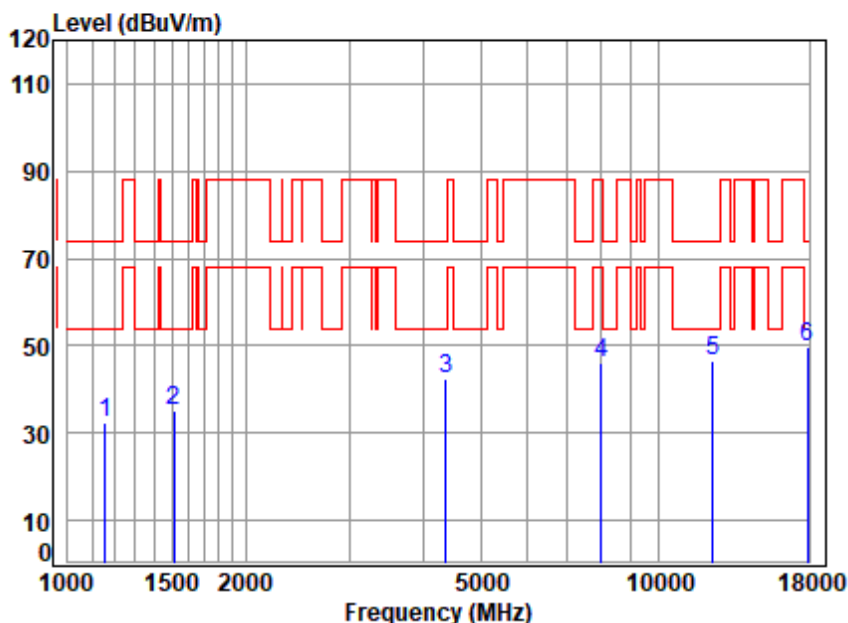


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6175 TX RSE  
Note : 6E WIFI 11AX20 Partial RU  
: External ant

		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	1252.885	3.75	25.08	61.57	66.30	33.56	88.20	-54.64	peak
2	1606.441	4.19	26.74	61.69	65.49	34.73	74.00	-39.27	peak
3	4495.125	7.24	33.66	61.62	64.94	44.22	88.20	-43.98	peak
4	8514.456	9.54	36.73	61.81	60.64	45.10	88.20	-43.10	peak
5	12350.000	12.02	37.90	62.71	59.81	47.02	74.00	-26.98	peak
6	p17844.590	15.29	43.90	61.04	51.46	49.61	74.00	-24.39	peak



Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(52 RU); Bandwidth:20MHz; Channel:middle

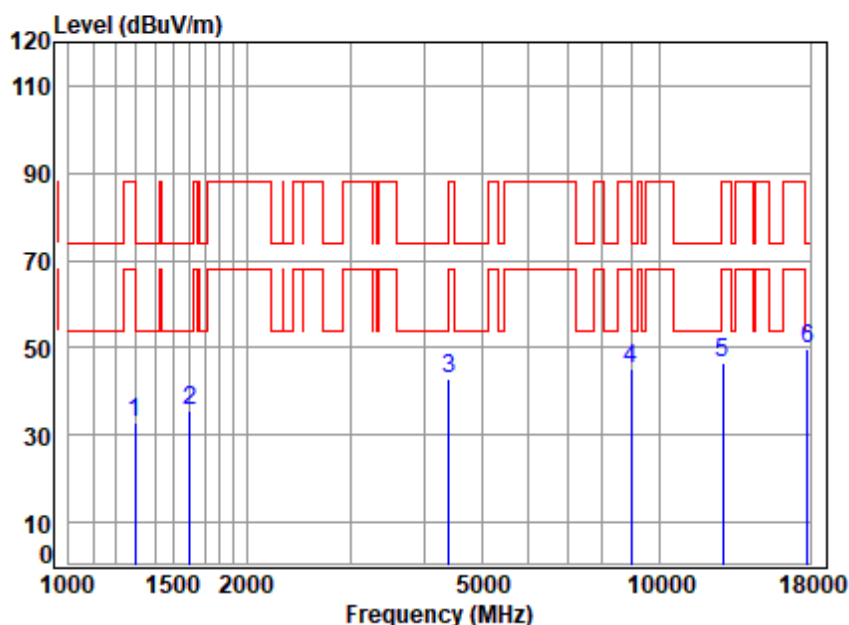


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6175 TX RSE  
Note : 6E WIFI 11AX20 Partial RU  
: External ant

		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	1158.828	3.63	23.99	61.54	66.34	32.42	74.00	-41.58	peak
2	1511.833	4.06	26.85	61.66	65.88	35.13	74.00	-38.87	peak
3	4367.058	7.10	34.54	61.51	62.20	42.33	74.00	-31.67	peak
4	8013.020	9.04	36.40	61.64	62.09	45.89	88.20	-42.31	peak
5	12350.000	12.02	37.90	62.71	59.28	46.49	74.00	-27.51	peak
6	p17896.250	15.35	43.90	60.99	51.58	49.84	74.00	-24.16	peak



Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(52 RU); Bandwidth:20MHz; Channel:High

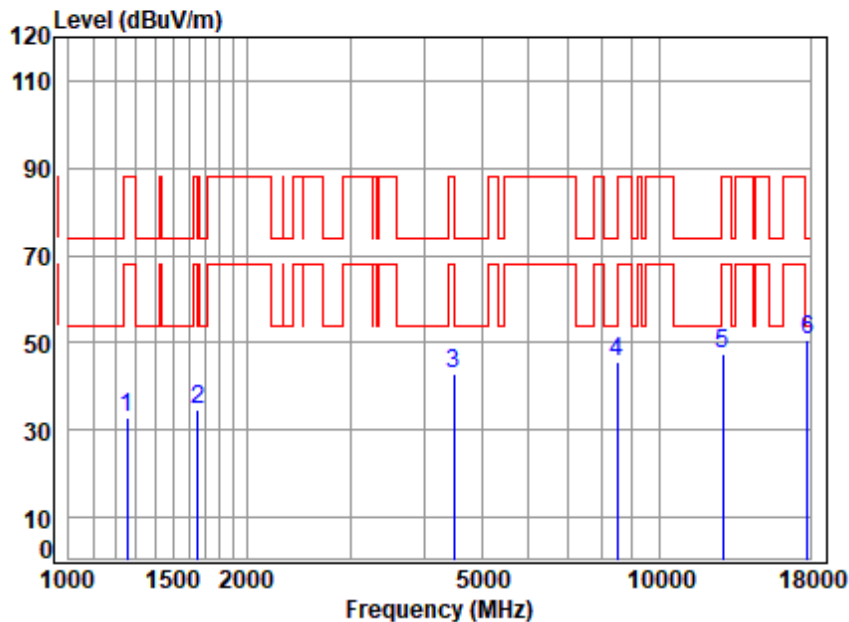


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6415 TX RSE  
Note : 6E WIFI 11AX20 Partial RU  
: External ant

		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	1297.103	3.81	24.82	61.59	65.95	32.99	88.20	-55.21	peak
2	1606.441	4.19	26.74	61.69	66.46	35.70	74.00	-38.30	peak
3	4405.090	7.14	34.74	61.55	62.63	42.96	88.20	-45.24	peak
4	8969.161	9.90	36.96	61.96	60.20	45.10	88.20	-43.10	peak
5	12830.000	12.16	38.13	62.68	58.80	46.41	88.20	-41.79	peak
6	p17844.590	15.29	43.90	61.04	51.76	49.91	74.00	-24.09	peak



Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(52 RU); Bandwidth:20MHz; Channel:High

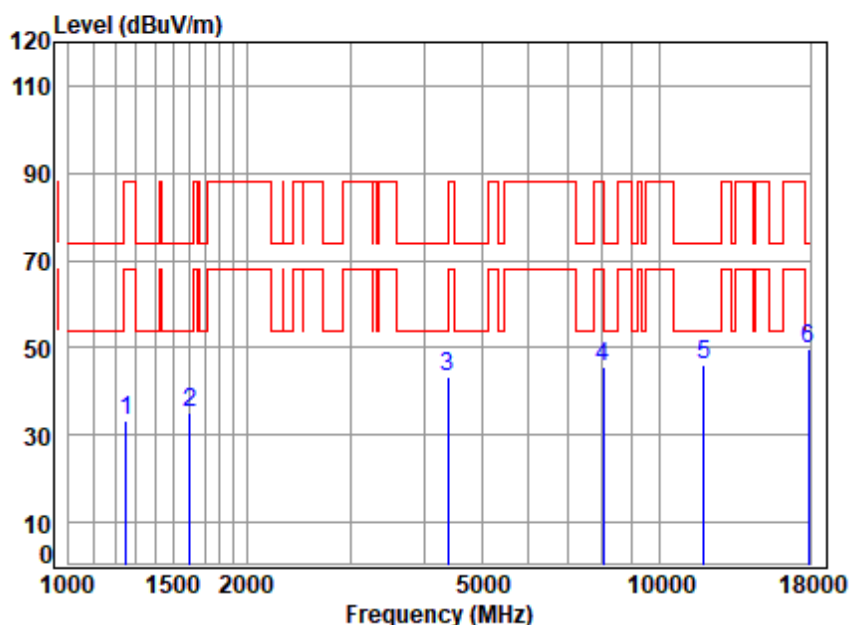


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6415 TX RSE  
Note : 6E WIFI 11AX20 Partial RU  
: External ant

		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	1256.512	3.76	25.06	61.58	65.64	32.88	88.20	-55.32	peak
2	1653.550	4.26	26.29	61.70	65.80	34.65	88.20	-53.55	peak
3	4495.125	7.24	33.66	61.62	63.56	42.84	88.20	-45.36	peak
4	8489.882	9.52	36.68	61.81	61.25	45.64	74.00	-28.36	peak
5	12830.000	12.16	38.13	62.68	59.94	47.55	88.20	-40.65	peak
6	p17793.090	15.23	43.89	61.09	52.59	50.62	74.00	-23.38	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:20MHz; Channel:Low;

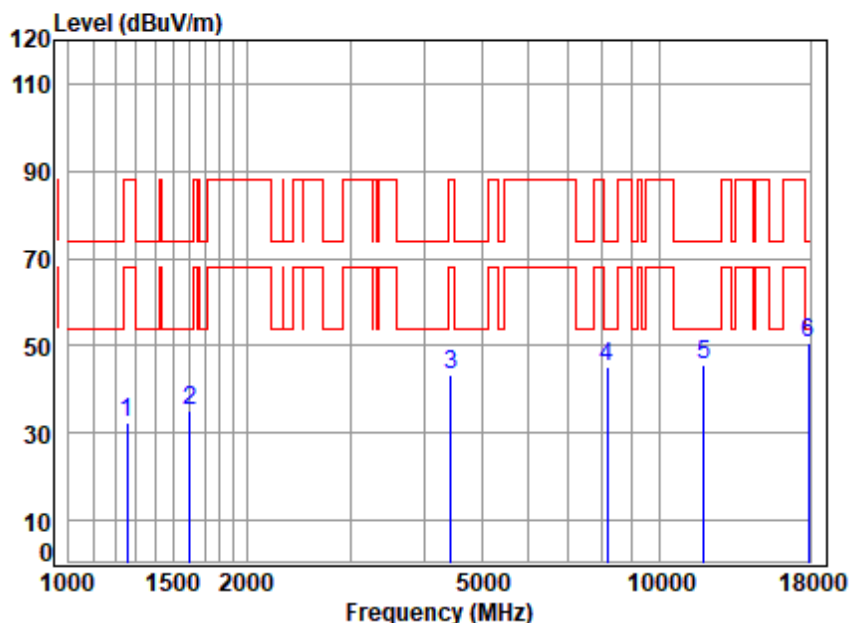


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 5955 TX RSE  
Note : 6E WIFI 11BE20 MRU(Small)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.75	25.09	61.57	66.21	33.48	88.20	-54.72	peak
2	1606.441	4.19	26.74	61.69	65.72	34.96	74.00	-39.04	peak
3	4379.699	7.11	34.64	61.52	63.20	43.43	74.00	-30.57	peak
4	8036.214	9.07	36.40	61.65	61.75	45.57	74.00	-28.43	peak
5	11910.000	11.96	37.71	62.71	59.02	45.98	74.00	-28.02	peak
6	p17865.000	15.32	43.90	61.02	51.52	49.72	74.00	-24.28	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:20MHz; Channel:Low;

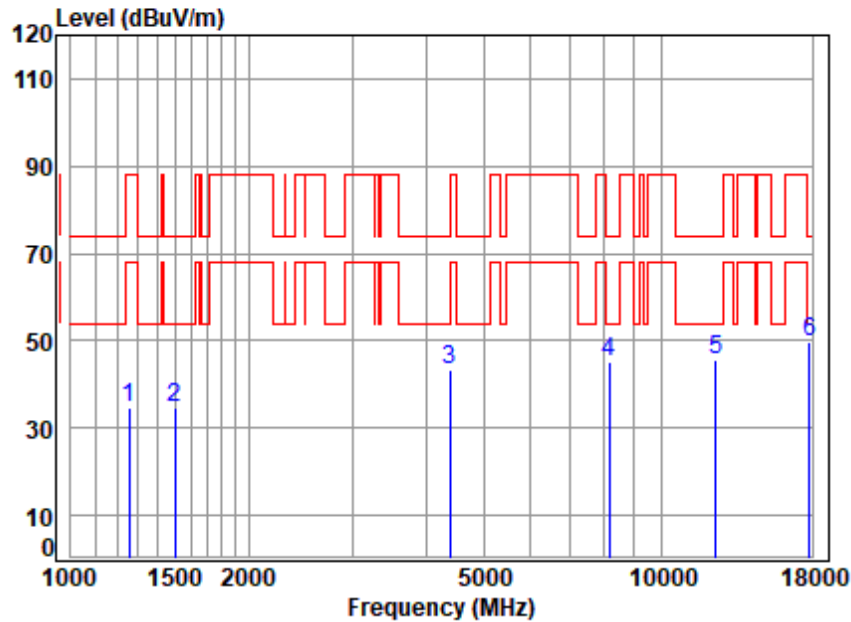


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 5955 TX RSE  
Note : 6E WIFI 11BE20 MRU(Small)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.76	25.06	61.58	65.38	32.62	88.20	-55.58	peak
2	1606.441	4.19	26.74	61.69	65.92	35.16	74.00	-38.84	peak
3	4443.453	7.19	34.28	61.58	63.47	43.36	88.20	-44.84	peak
4	8176.795	9.21	36.55	61.70	61.27	45.33	74.00	-28.67	peak
5	11910.000	11.96	37.71	62.71	58.58	45.54	74.00	-28.46	peak
6	17865.000	15.32	43.90	61.02	52.61	50.81	74.00	-23.19	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:20MHz; Channel:middle;

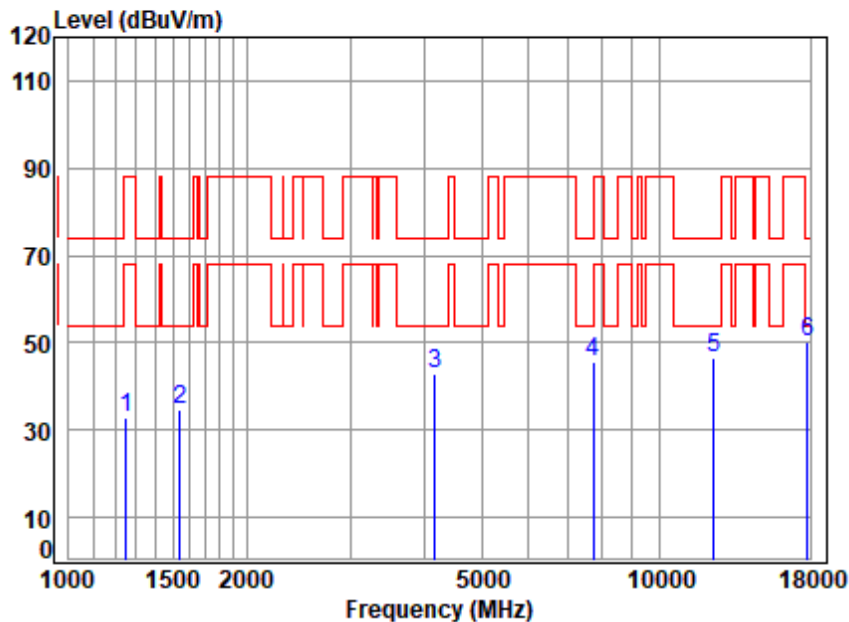


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6175 TX RSE  
Note : 6E WIFI 11BE20 MRU(Small)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.76	25.06	61.58	67.31	34.55	88.20	-53.65	peak
2	1503.119	4.04	26.81	61.66	65.62	34.81	74.00	-39.19	peak
3	4392.376	7.13	34.74	61.53	63.11	43.45	74.00	-30.55	peak
4	8153.195	9.19	36.51	61.69	61.01	45.02	74.00	-28.98	peak
5	12350.000	12.02	37.90	62.71	58.33	45.54	74.00	-28.46	peak
6	17793.090	15.23	43.89	61.09	51.64	49.67	74.00	-24.33	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:20MHz; Channel:middle;

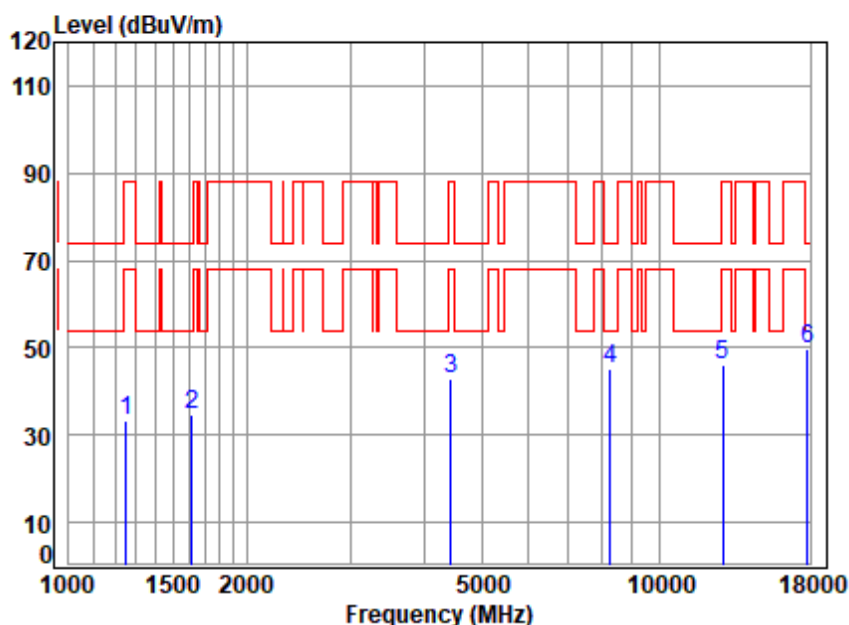


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6175 TX RSE  
Note : 6E WIFI 11BE20 MRU(Small)  
: External ant

		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	1252.885	3.75	25.08	61.57	65.42	32.68	88.20	-55.52	peak
2	1542.733	4.10	26.97	61.67	65.49	34.89	74.00	-39.11	peak
3	4169.698	6.86	33.80	61.33	63.52	42.85	74.00	-31.15	peak
4	7717.518	8.68	36.14	61.78	62.64	45.68	74.00	-28.32	peak
5	12350.000	12.02	37.90	62.71	59.35	46.56	74.00	-27.44	peak
6	p17844.590	15.29	43.90	61.04	52.23	50.38	74.00	-23.62	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:20MHz; Channel:High;

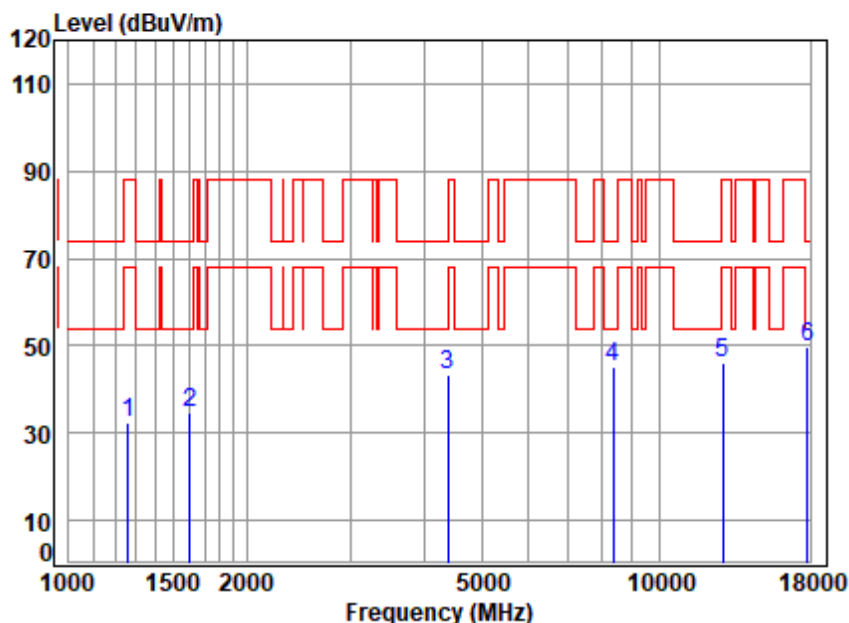


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6415 TX RSE  
Note : 6E WIFI 11BE20 MRU(Small)  
: External ant

		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	1252.885	3.75	25.08	61.57	66.24	33.50	88.20	-54.70	peak
2	1615.754	4.21	26.64	61.69	65.50	34.66	74.00	-39.34	peak
3	4430.628	7.17	34.43	61.57	62.84	42.87	88.20	-45.33	peak
4	8248.005	9.28	36.70	61.72	60.90	45.16	74.00	-28.84	peak
5	12830.000	12.16	38.13	62.68	58.29	45.90	88.20	-42.30	peak
6	p17793.090	15.23	43.89	61.09	51.50	49.53	74.00	-24.47	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:20MHz; Channel:High;

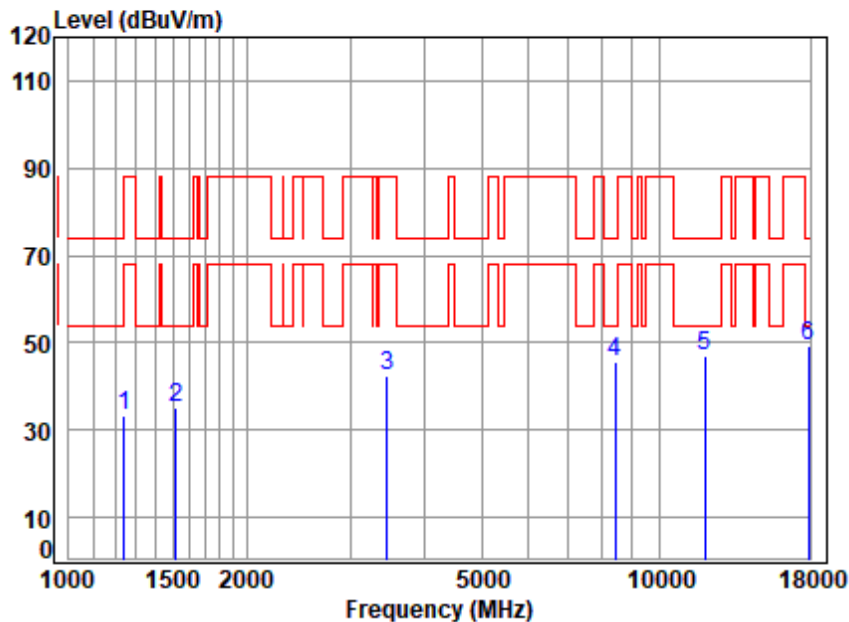


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6415 TX RSE  
Note : 6E WIFI 11BE20 MRU(Small)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.76	25.04	61.58	65.36	32.58	88.20	-55.62	peak
2	1606.441	4.19	26.74	61.69	65.61	34.85	74.00	-39.15	peak
3	4379.699	7.11	34.64	61.52	63.20	43.43	74.00	-30.57	peak
4	8368.069	9.40	36.70	61.76	60.82	45.16	74.00	-28.84	peak
5	12830.000	12.16	38.13	62.68	58.57	46.18	88.20	-42.02	peak
6	p17844.590	15.29	43.90	61.04	51.61	49.76	74.00	-24.24	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:40MHz; Channel:Low;

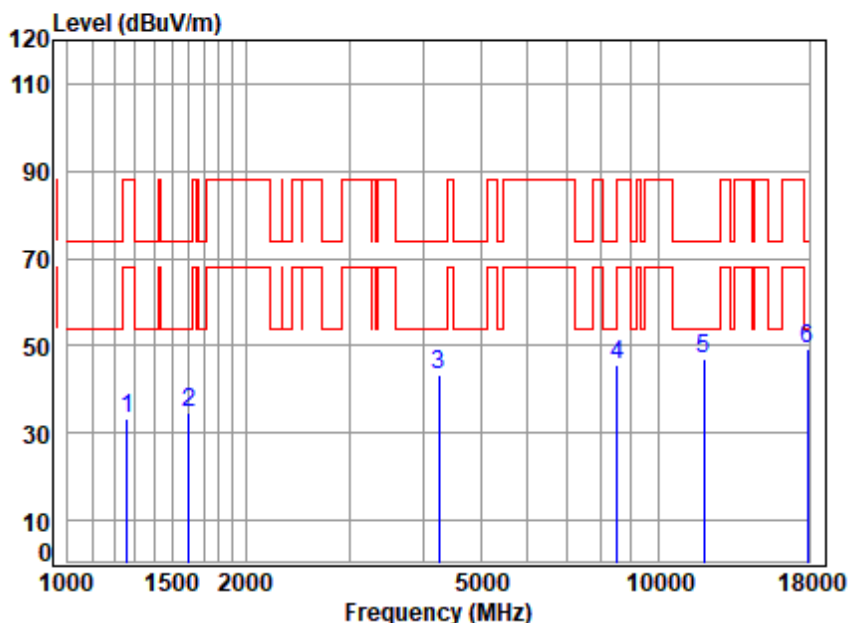


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 5965 TX RSE  
Note : 6E WIFI 11BE40 MRU(Small)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	3.74	24.99	61.57	65.99	33.15	88.20	-55.05	peak
2	1516.210	4.06	26.86	61.66	65.81	35.07	74.00	-38.93	peak
3	3455.508	6.48	31.78	61.30	65.25	42.21	88.20	-45.99	peak
4	8416.584	9.45	36.67	61.78	61.14	45.48	74.00	-28.52	peak
5	11930.000	11.96	37.73	62.71	60.15	47.13	74.00	-26.87	peak
6	p17895.000	15.35	43.90	60.99	51.14	49.40	74.00	-24.60	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:40MHz; Channel:Low;

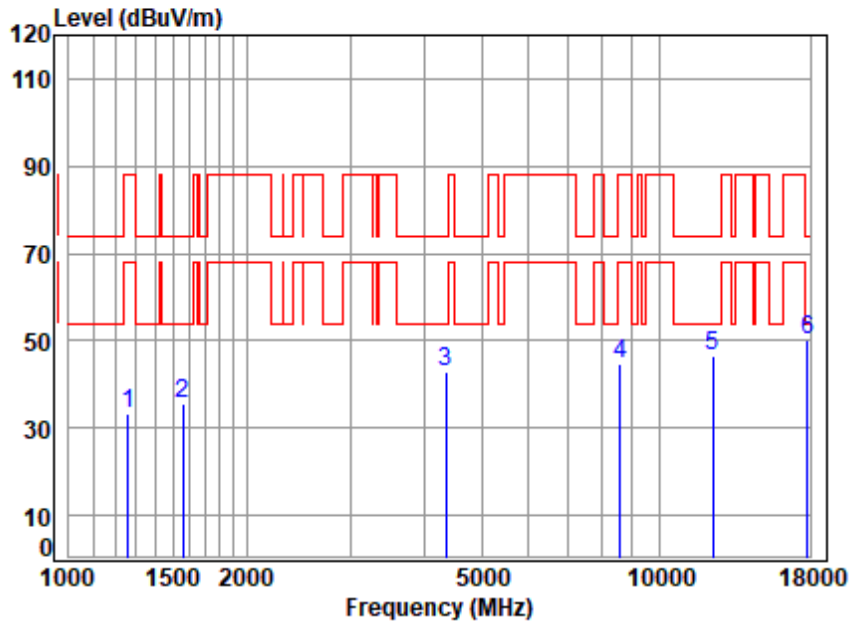


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 5965 TX RSE  
Note : 6E WIFI 11BE40 MRU(Small)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.76	25.04	61.58	66.16	33.38	88.20	-54.82	peak
2	1601.804	4.19	26.78	61.69	65.39	34.67	74.00	-39.33	peak
3	4254.921	6.96	33.82	61.41	63.89	43.26	74.00	-30.74	peak
4	8514.456	9.54	36.73	61.81	61.15	45.61	88.20	-42.59	peak
5	11930.000	11.96	37.73	62.71	60.09	47.07	74.00	-26.93	peak
6	p17895.000	15.35	43.90	60.99	50.82	49.08	74.00	-24.92	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:40MHz; Channel:middle;

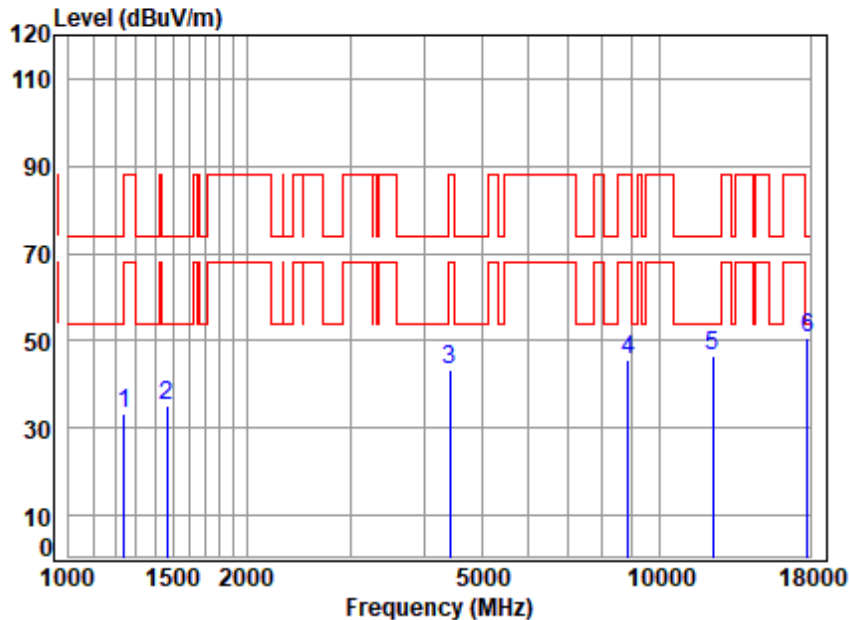


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6165 TX RSE  
Note : 6E WIFI 11BE40 MRU(Small)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.76	25.04	61.58	65.94	33.16	88.20	-55.04	peak
2	1560.673	4.13	26.96	61.68	66.26	35.67	74.00	-38.33	peak
3	4354.454	7.08	34.44	61.50	62.83	42.85	74.00	-31.15	peak
4	8588.607	9.60	36.88	61.84	60.25	44.89	88.20	-43.31	peak
5	12330.000	12.02	37.90	62.71	59.39	46.60	74.00	-27.40	peak
6	p17844.590	15.29	43.90	61.04	52.15	50.30	74.00	-23.70	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:40MHz; Channel:middle;

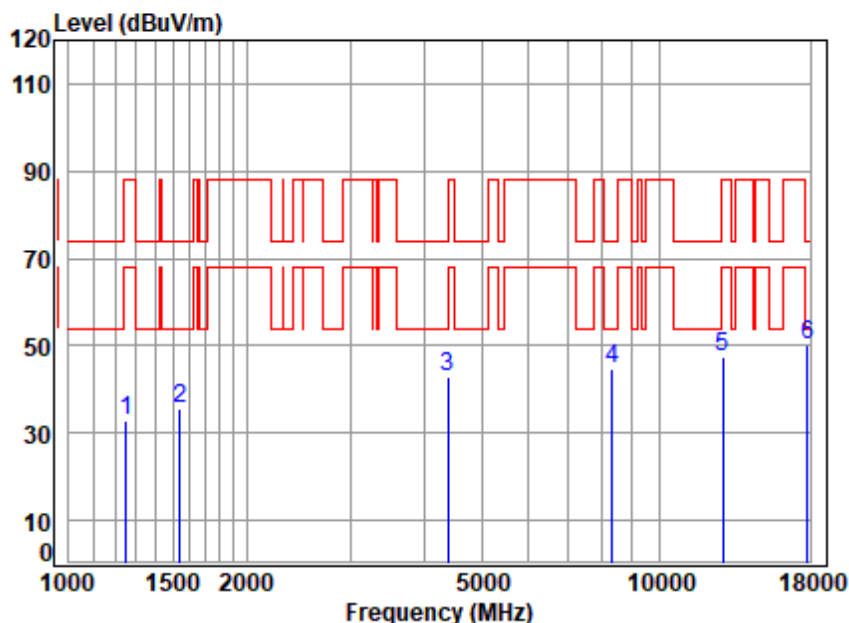


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6165 TX RSE  
Note : 6E WIFI 11BE40 MRU(Small)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1242.068	3.74	24.99	61.57	66.17	33.33	88.20	-54.87	peak
2	1464.522	4.00	25.81	61.65	66.90	35.06	74.00	-38.94	peak
3	4417.841	7.16	34.59	61.56	63.17	43.36	88.20	-44.84	peak
4	8866.062	9.82	37.20	61.93	60.42	45.51	88.20	-42.69	peak
5	12330.000	12.02	37.90	62.71	59.12	46.33	74.00	-27.67	peak
6	p17844.590	15.29	43.90	61.04	52.64	50.79	74.00	-23.21	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:40MHz; Channel:High;

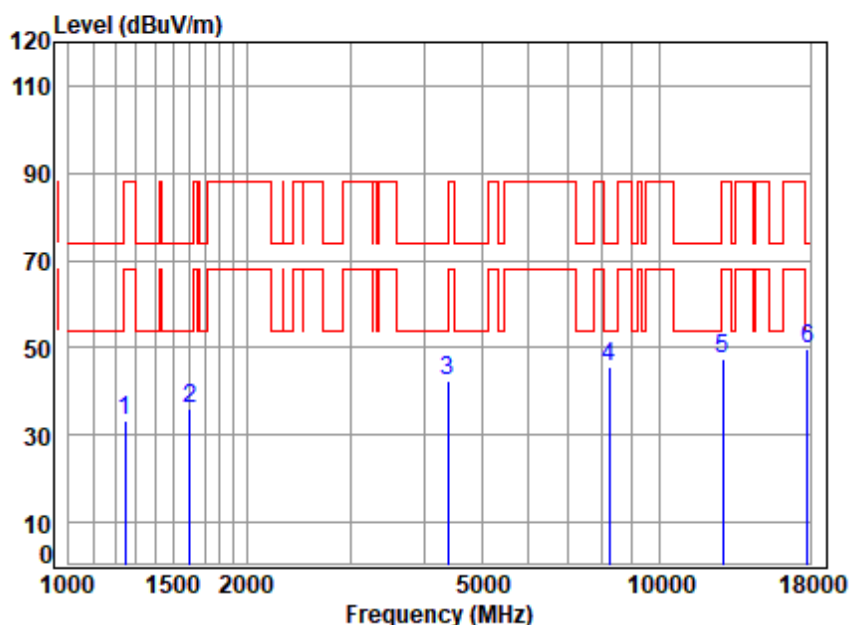


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6405 TX RSE  
Note : 6E WIFI 11BE40 MRU(Small)  
: External ant

		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	1249.269	3.75	25.09	61.57	65.51	32.78	88.20	-55.42	peak
2	1542.733	4.10	26.97	61.67	66.03	35.43	74.00	-38.57	peak
3	4379.699	7.11	34.64	61.52	62.60	42.83	74.00	-31.17	peak
4	8319.836	9.35	36.70	61.75	60.55	44.85	74.00	-29.15	peak
5	12810.000	12.15	38.11	62.68	59.96	47.54	88.20	-40.66	peak
6	17793.090	15.23	43.89	61.09	52.25	50.28	74.00	-23.72	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:40MHz; Channel:High;

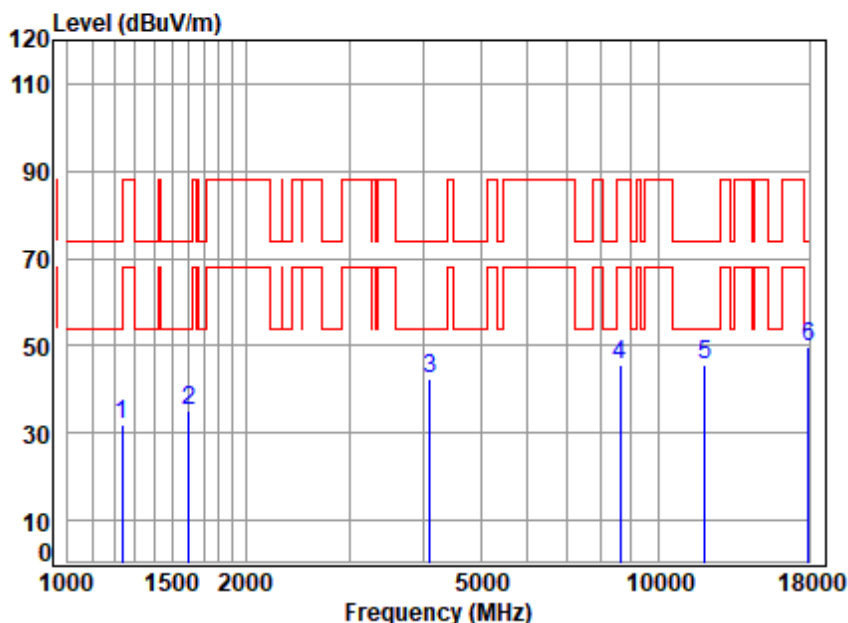


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6405 TX RSE  
Note : 6E WIFI 11BE40 MRU(Small)  
: External ant

		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	1245.663	3.74	25.04	61.57	66.13	33.34	88.20	-54.86	peak
2	1606.441	4.19	26.74	61.69	66.62	35.86	74.00	-38.14	peak
3	4379.699	7.11	34.64	61.52	62.38	42.61	74.00	-31.39	peak
4	8224.200	9.26	36.65	61.72	61.41	45.60	74.00	-28.40	peak
5	12810.000	12.15	38.11	62.68	59.83	47.41	88.20	-40.79	peak
6	p17844.590	15.29	43.90	61.04	51.55	49.70	74.00	-24.30	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:80MHz; Channel:Low;

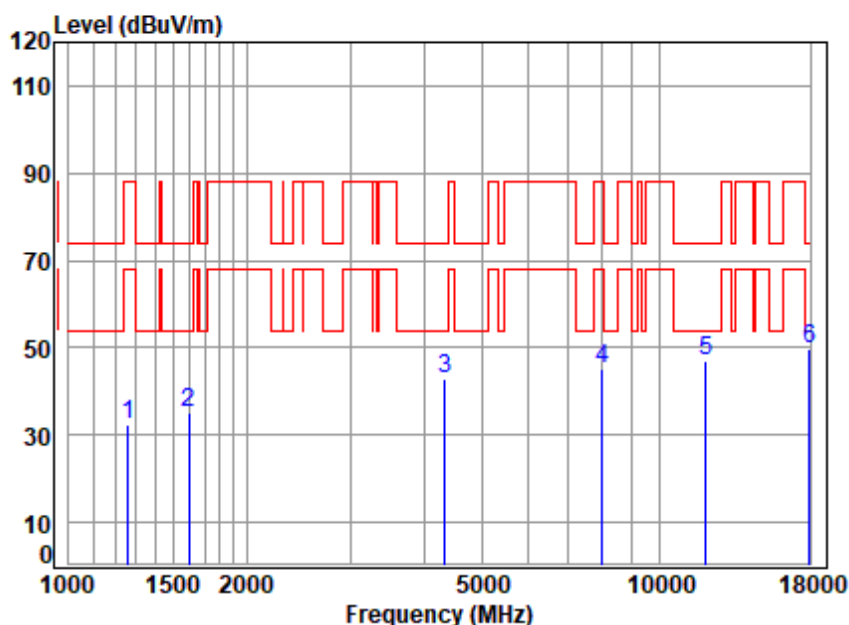


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 5985 TX RSE  
Note : 6E WIFI 11BE80 MRU(Large)  
: External ant

		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	1238.483	3.73	24.94	61.57	65.02	32.12	74.00	-41.88	peak
2	1606.441	4.19	26.74	61.69	65.90	35.14	74.00	-38.86	peak
3	4109.872	6.79	33.16	61.28	63.58	42.25	74.00	-31.75	peak
4	8613.468	9.62	36.90	61.85	60.94	45.61	88.20	-42.59	peak
5	11970.000	11.96	37.77	62.72	58.46	45.47	74.00	-28.53	peak
6	p17955.000	15.42	44.12	60.93	51.20	49.81	74.00	-24.19	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:80MHz; Channel:Low;

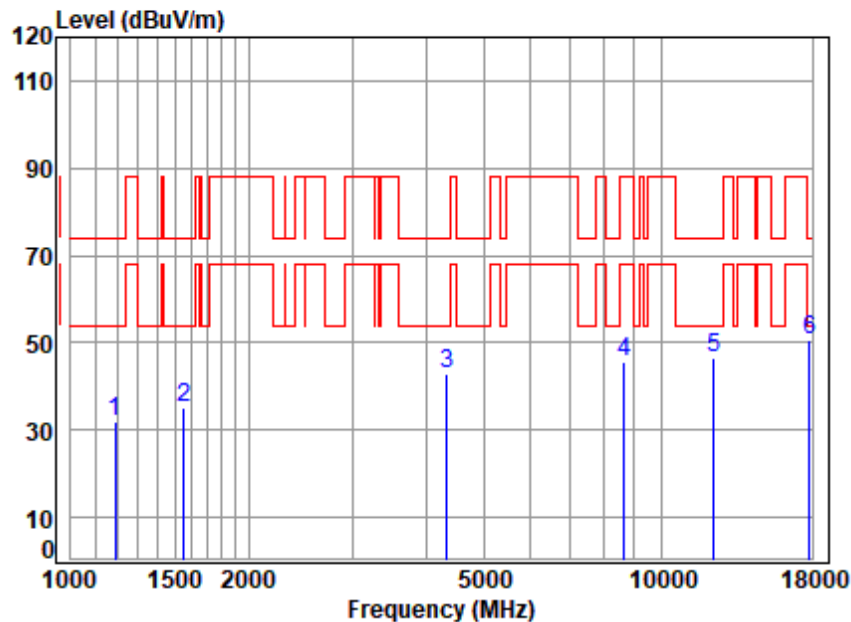


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 5985 TX RSE  
Note : 6E WIFI 11BE80 MRU(Large)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.76	25.04	61.58	65.23	32.45	88.20	-55.75	peak
2	1597.181	4.18	26.81	61.69	65.78	35.08	74.00	-38.92	peak
3	4329.354	7.05	34.23	61.48	62.97	42.77	74.00	-31.23	peak
4	8013.020	9.04	36.40	61.64	61.39	45.19	88.20	-43.01	peak
5	11970.000	11.96	37.77	62.72	59.90	46.91	74.00	-27.09	peak
6	17955.000	15.42	44.12	60.93	51.33	49.94	74.00	-24.06	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:80MHz; Channel:middle;

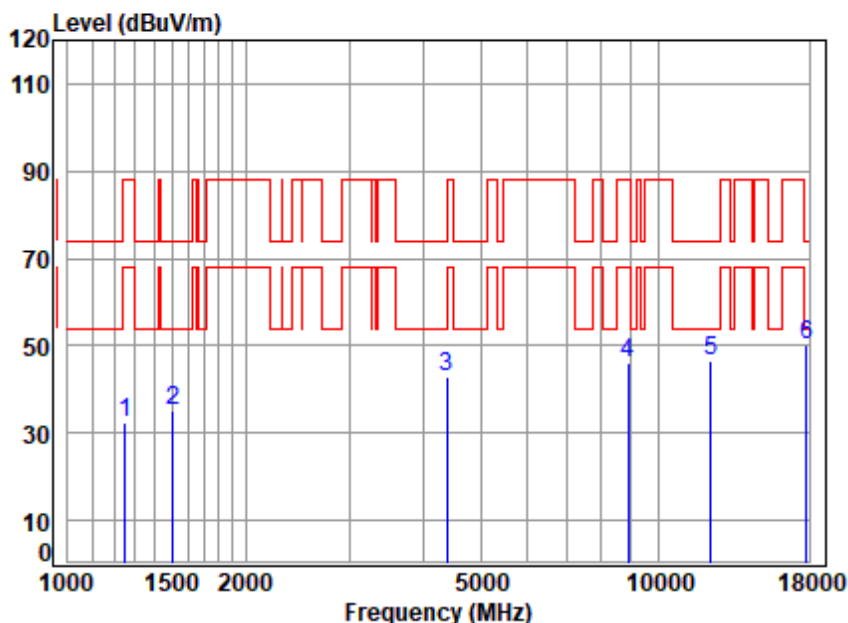


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6145 TX RSE  
Note : 6E WIFI 11BE80 MRU(Large)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	3.67	24.29	61.55	65.71	32.12	74.00	-41.88	peak
2	1556.169	4.12	26.98	61.67	65.74	35.17	74.00	-38.83	peak
3	4341.886	7.07	34.34	61.49	63.18	43.10	74.00	-30.90	peak
4	8638.399	9.64	36.90	61.85	60.79	45.48	88.20	-42.72	peak
5	12290.000	12.01	37.90	62.71	59.44	46.64	74.00	-27.36	peak
6	17793.090	15.23	43.89	61.09	52.41	50.44	74.00	-23.56	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:80MHz; Channel:middle;

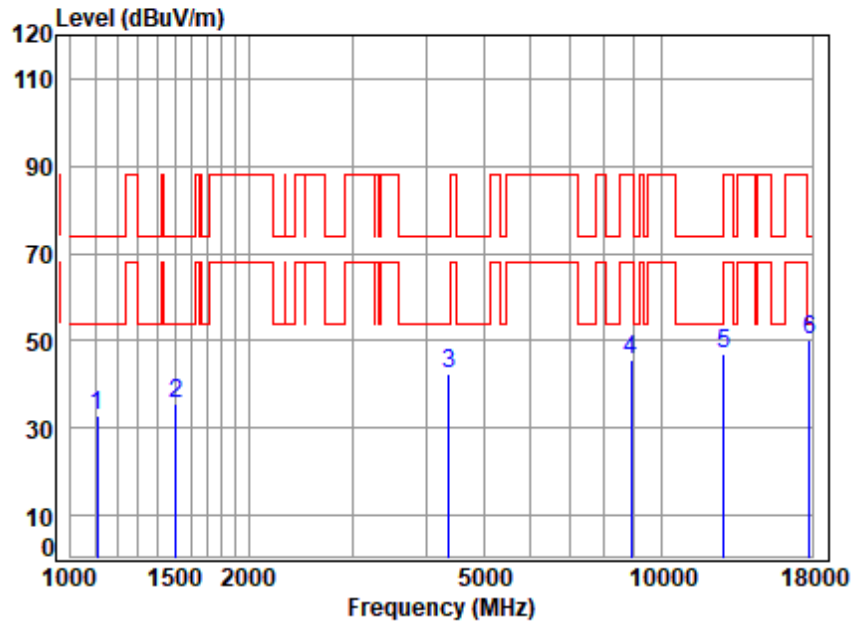


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6145 TX RSE  
Note : 6E WIFI 11BE80 MRU(Large)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.75	25.09	61.57	65.34	32.61	88.20	-55.59	peak
2	1507.470	4.05	26.83	61.66	65.75	34.97	74.00	-39.03	peak
3	4379.699	7.11	34.64	61.52	62.55	42.78	74.00	-31.22	peak
4	8891.725	9.84	37.20	61.93	60.84	45.95	88.20	-42.25	peak
5	12290.000	12.01	37.90	62.71	59.35	46.55	74.00	-27.45	peak
6	p17844.590	15.29	43.90	61.04	51.86	50.01	74.00	-23.99	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:80MHz; Channel:High;

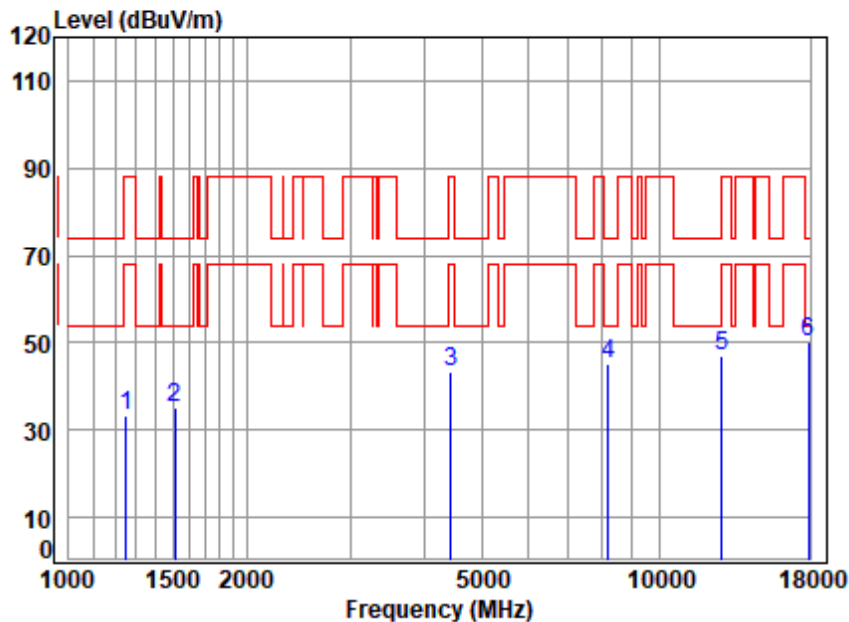


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6385 TX RSE  
Note : 6E WIFI 11BE80 MRU(Large)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1109.660	3.56	23.74	61.52	67.05	32.83	74.00	-41.17	peak
2	1507.470	4.05	26.83	61.66	66.55	35.77	74.00	-38.23	peak
3	4367.058	7.10	34.54	61.51	62.09	42.22	74.00	-31.78	peak
4	8891.725	9.84	37.20	61.93	60.32	45.43	88.20	-42.77	peak
5	12770.000	12.14	38.10	62.68	59.49	47.05	88.20	-41.15	peak
6	p17844.590	15.29	43.90	61.04	52.11	50.26	74.00	-23.74	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:80MHz; Channel:High;

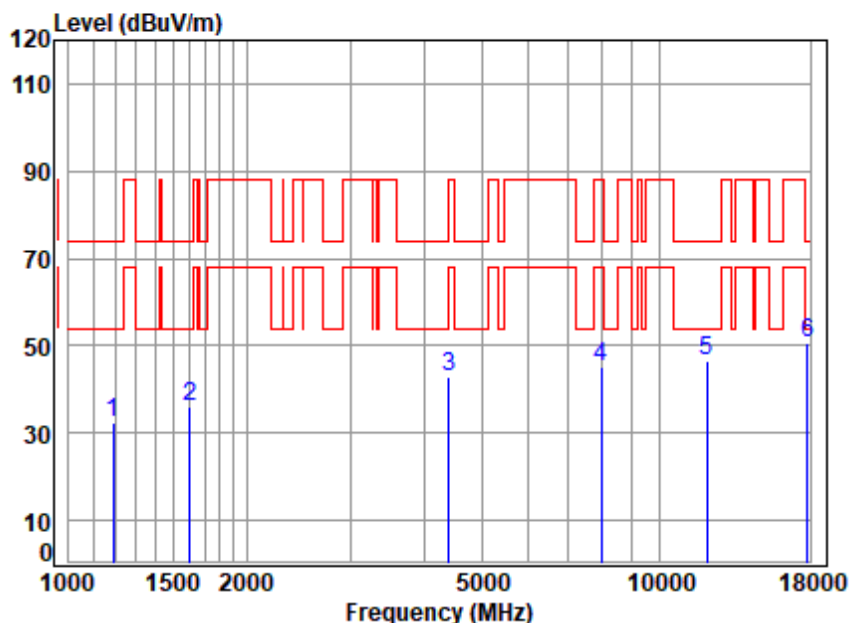


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6385 TX RSE  
Note : 6E WIFI 11BE80 MRU(Large)  
: External ant

		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	1249.269	3.75	25.09	61.57	66.03	33.30	88.20	-54.90	peak
2	1511.833	4.06	26.85	61.66	65.84	35.09	74.00	-38.91	peak
3	4443.453	7.19	34.28	61.58	63.59	43.48	88.20	-44.72	peak
4	8200.463	9.23	36.60	61.71	61.04	45.16	74.00	-28.84	peak
5	12770.000	12.14	38.10	62.68	59.26	46.82	88.20	-41.38	peak
6	p17896.250	15.35	43.90	60.99	51.84	50.10	74.00	-23.90	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:160MHz; Channel:Low;

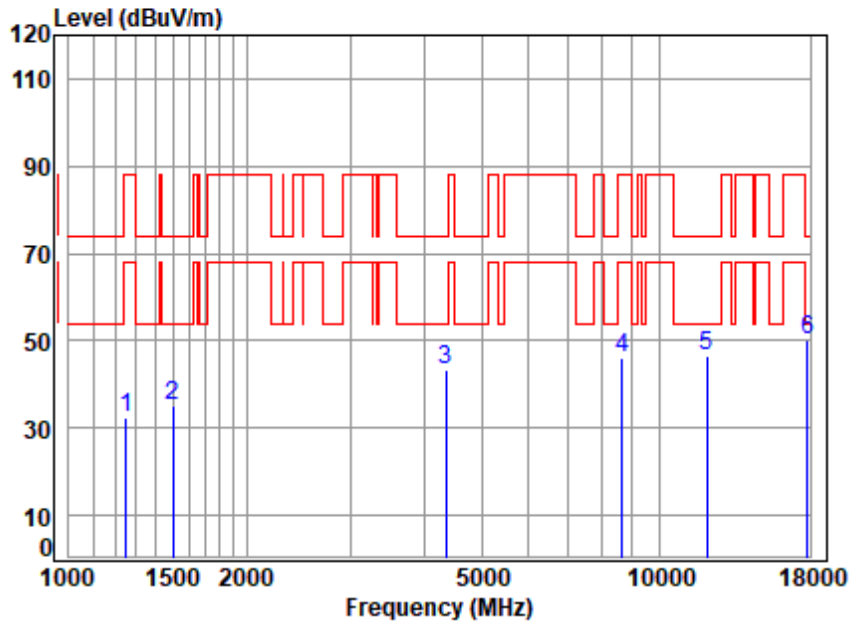


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6025 TX RSE  
Note : 6E WIFI 11BE160 MRU(Large)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1189.368	3.67	24.29	61.55	65.99	32.40	74.00	-41.60	peak
2	1606.441	4.19	26.74	61.69	66.64	35.88	74.00	-38.12	peak
3	4405.090	7.14	34.74	61.55	62.70	43.03	88.20	-45.17	peak
4	7989.893	9.02	36.40	61.64	61.41	45.19	88.20	-43.01	peak
5	12050.000	11.97	37.75	62.73	59.40	46.39	74.00	-27.61	peak
6	p17844.590	15.29	43.90	61.04	52.61	50.76	74.00	-23.24	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:160MHz; Channel:Low;

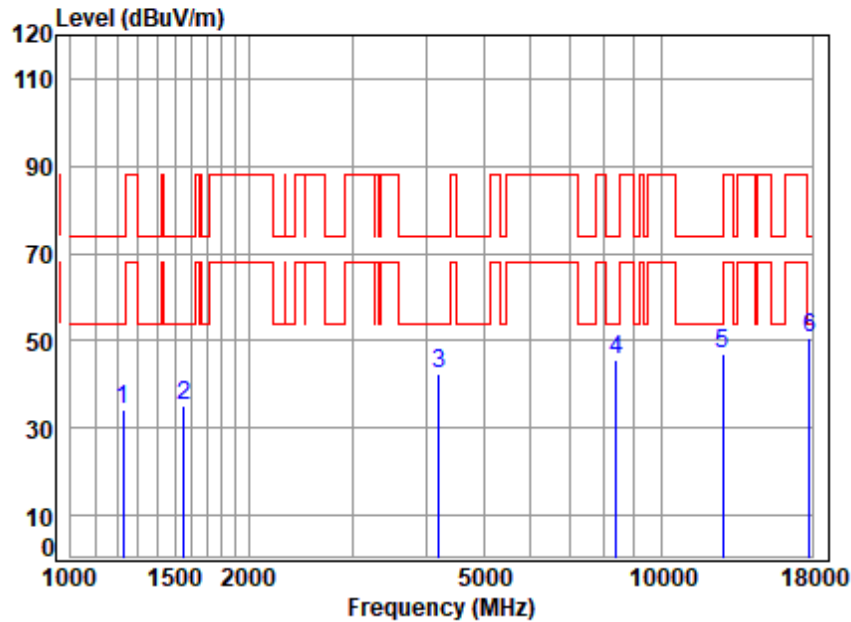


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6025 TX RSE  
Note : 6E WIFI 11BE160 MRU(Large)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.75	25.09	61.57	65.11	32.38	88.20	-55.82	peak
2	1503.119	4.04	26.81	61.66	65.92	35.11	74.00	-38.89	peak
3	4354.454	7.08	34.44	61.50	63.33	43.35	74.00	-30.65	peak
4	8638.399	9.64	36.90	61.85	61.17	45.86	88.20	-42.34	peak
5	12050.000	11.97	37.75	62.73	59.36	46.35	74.00	-27.65	peak
6	p17793.090	15.23	43.89	61.09	52.17	50.20	74.00	-23.80	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:160MHz; Channel:High;

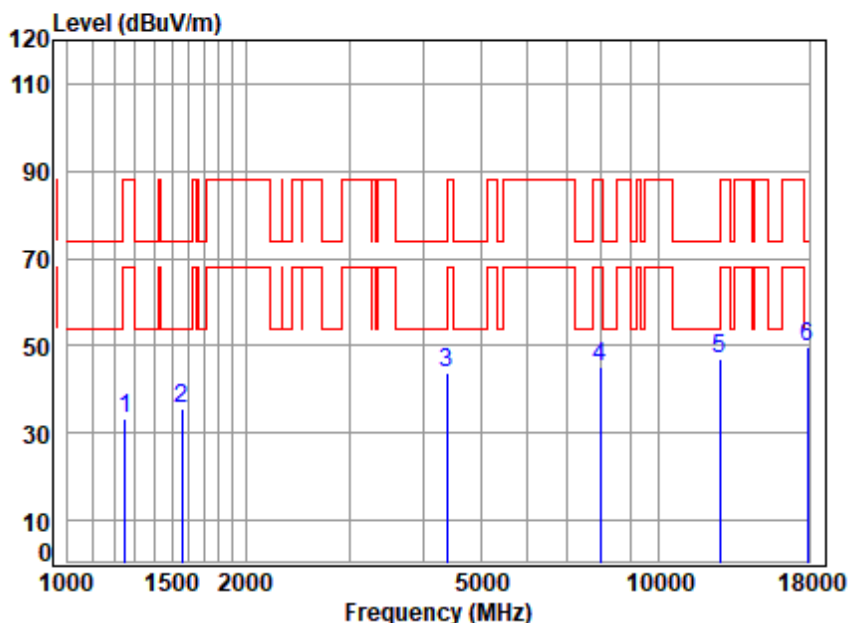


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6345 TX RSE  
Note : 6E WIFI 11BE160 MRU(Large)  
: External ant

	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	1227.791	3.72	24.79	61.56	67.14	34.09	74.00	-39.91	peak
2	1556.169	4.12	26.98	61.67	65.77	35.20	74.00	-38.80	peak
3	4193.872	6.89	33.80	61.35	63.07	42.41	74.00	-31.59	peak
4	8392.292	9.42	36.70	61.77	61.35	45.70	74.00	-28.30	peak
5	12690.000	12.11	38.08	62.69	59.31	46.81	74.00	-27.19	peak
6	p17844.590	15.29	43.90	61.04	52.72	50.87	74.00	-23.13	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:160MHz; Channel:High;

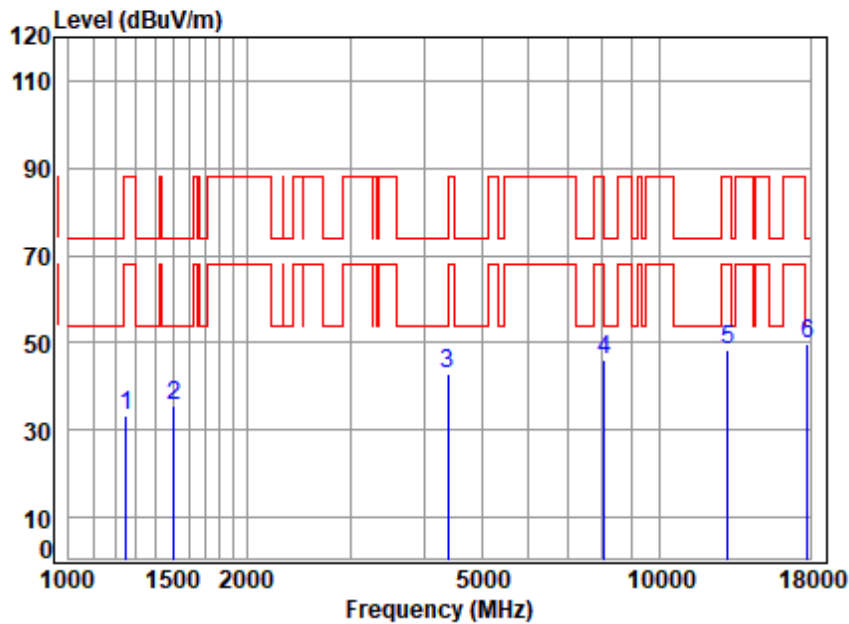


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6345 TX RSE  
Note : 6E WIFI 11BE160 MRU(Large)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.75	25.09	61.57	66.05	33.32	88.20	-54.88	peak
2	1560.673	4.13	26.96	61.68	66.32	35.73	74.00	-38.27	peak
3	4392.376	7.13	34.74	61.53	63.41	43.75	74.00	-30.25	peak
4	7966.832	8.99	36.40	61.66	61.42	45.15	88.20	-43.05	peak
5	12690.000	12.11	38.08	62.69	59.56	47.06	74.00	-26.94	peak
6	p17896.250	15.35	43.90	60.99	51.54	49.80	74.00	-24.20	peak



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low

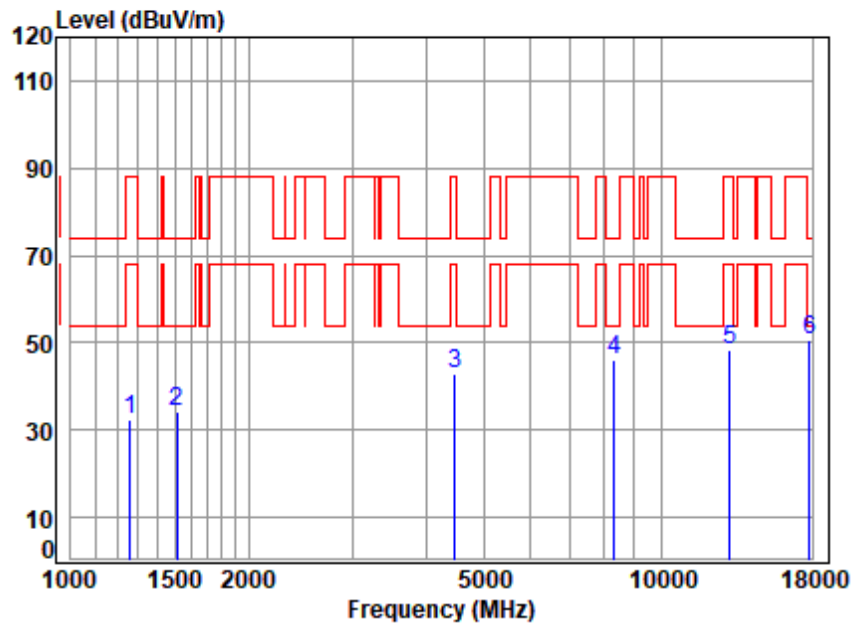


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6535 TX RSE  
Note : 6E WIFI 11AX20  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.75	25.09	61.57	65.88	33.15	88.20	-55.05	peak
2	1507.470	4.05	26.83	61.66	66.20	35.42	74.00	-38.58	peak
3	4379.699	7.11	34.64	61.52	62.47	42.70	74.00	-31.30	peak
4	8082.804	9.11	36.47	61.67	62.07	45.98	74.00	-28.02	peak
5	13070.000	12.29	38.31	62.66	60.63	48.57	88.20	-39.63	peak
6	17844.590	15.29	43.90	61.04	51.54	49.69	74.00	-24.31	peak



Test Mode: 09; Polarity: Vertical; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low

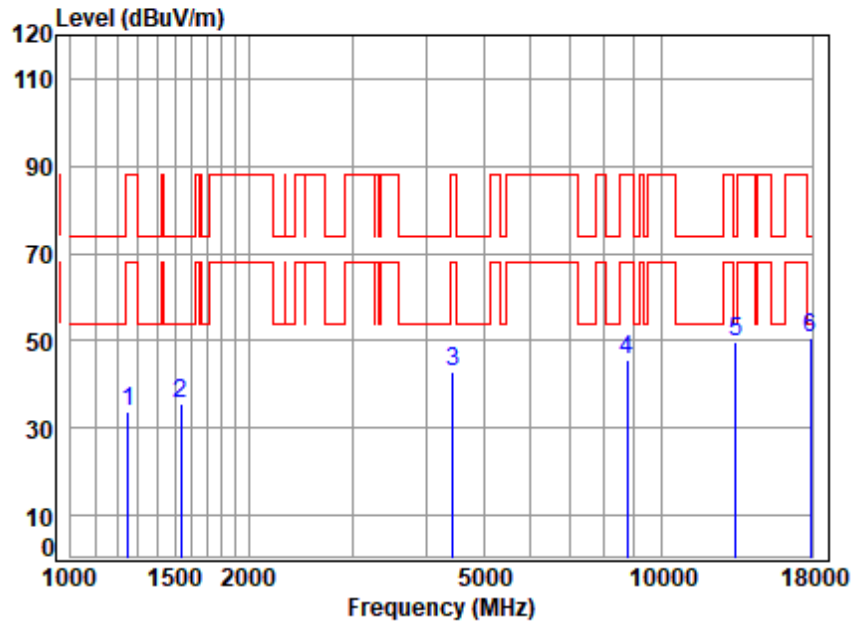


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6535 TX RSE  
Note : 6E WIFI 11AX20  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1260.149	3.76	25.04	61.58	65.26	32.48	88.20	-55.72	peak
2	1511.833	4.06	26.85	61.66	65.12	34.37	74.00	-39.63	peak
3	4469.214	7.22	33.97	61.60	63.47	43.06	88.20	-45.14	peak
4	8319.836	9.35	36.70	61.75	61.85	46.15	74.00	-27.85	peak
5	13070.000	12.29	38.31	62.66	60.54	48.48	88.20	-39.72	peak
6	17844.590	15.29	43.90	61.04	52.40	50.55	74.00	-23.45	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

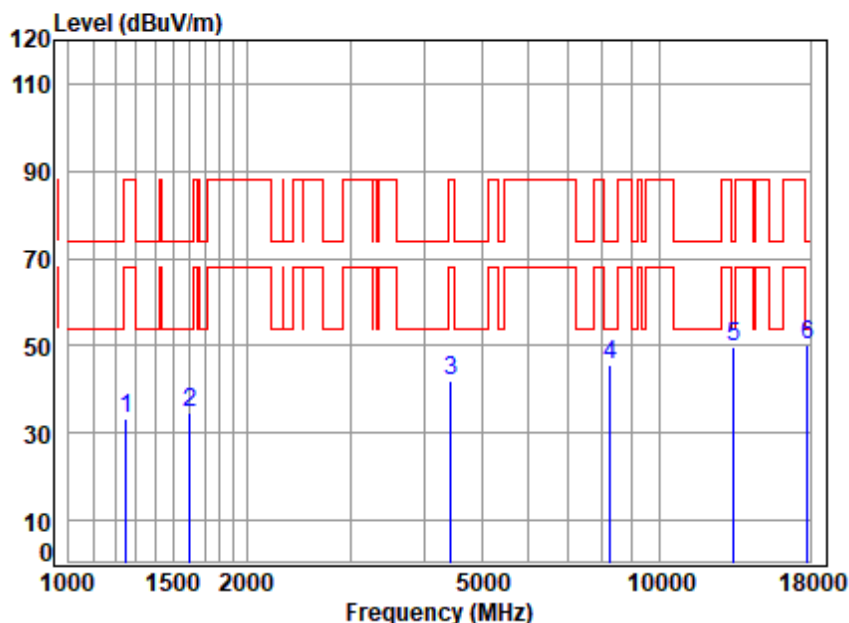


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6695 TX RSE  
Note : 6E WIFI 11AX20  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.75	25.09	61.57	66.44	33.71	88.20	-54.49	peak
2	1538.281	4.10	26.95	61.67	66.07	35.45	74.00	-38.55	peak
3	4443.453	7.19	34.28	61.58	63.06	42.95	88.20	-45.25	peak
4	8738.852	9.72	36.90	61.89	60.86	45.59	88.20	-42.61	peak
5	13390.000	12.63	38.78	62.64	60.83	49.60	74.00	-24.40	peak
6	17896.250	15.35	43.90	60.99	52.45	50.71	74.00	-23.29	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:middle

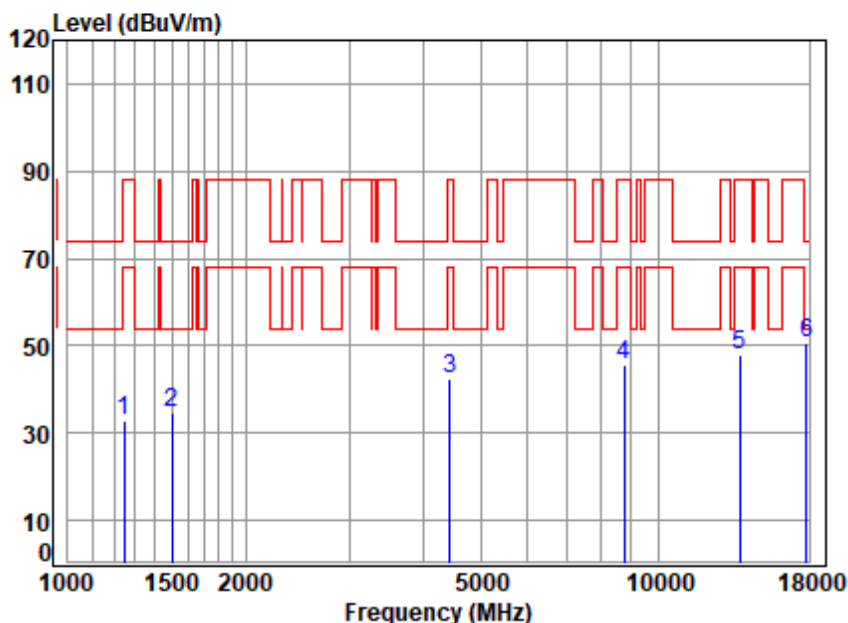


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6695 TX RSE  
Note : 6E WIFI 11AX20  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.75	25.09	61.57	66.17	33.44	88.20	-54.76	peak
2	1601.804	4.19	26.78	61.69	65.35	34.63	74.00	-39.37	peak
3	4443.453	7.19	34.28	61.58	62.23	42.12	88.20	-46.08	peak
4	8248.005	9.28	36.70	61.72	61.30	45.56	74.00	-28.44	peak
5	13390.000	12.63	38.78	62.64	60.80	49.57	74.00	-24.43	peak
6	17844.590	15.29	43.90	61.04	52.04	50.19	74.00	-23.81	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

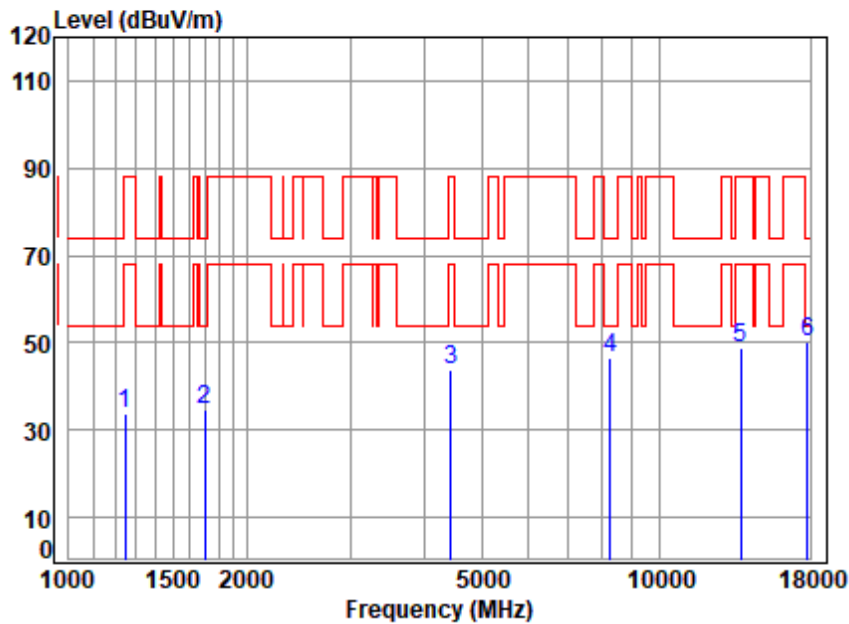


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6855 TX RSE  
Note : 6E WIFI 11AX20  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.74	25.04	61.57	65.75	32.96	88.20	-55.24	peak
2	1503.119	4.04	26.81	61.66	65.56	34.75	74.00	-39.25	peak
3	4430.628	7.17	34.43	61.57	62.46	42.49	88.20	-45.71	peak
4	8738.852	9.72	36.90	61.89	61.08	45.81	88.20	-42.39	peak
5	13710.000	12.87	39.12	62.63	58.57	47.93	88.20	-40.27	peak
6	17793.090	15.23	43.89	61.09	52.39	50.42	74.00	-23.58	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:High

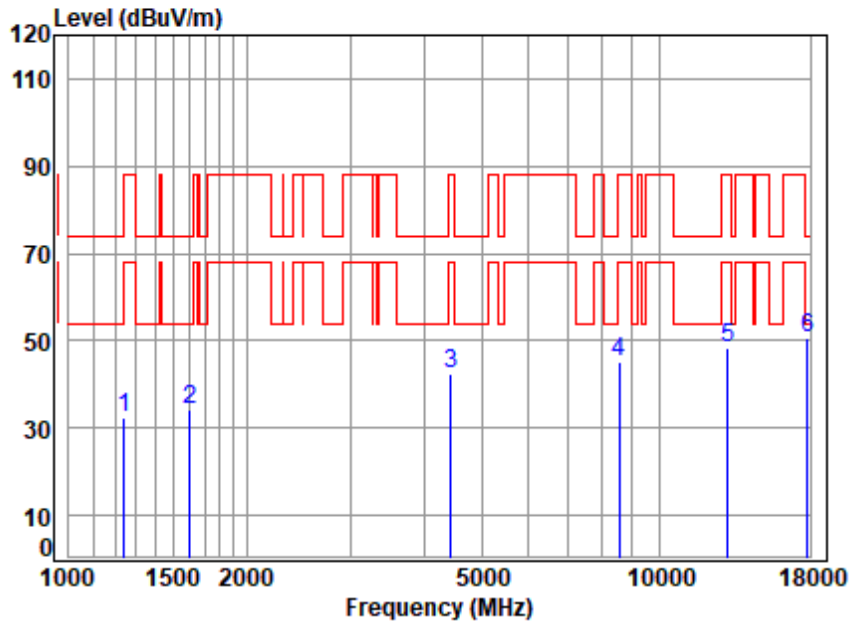


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6855 TX RSE  
Note : 6E WIFI 11AX20  
: External ant

		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	1245.663	3.74	25.04	61.57	66.63	33.84	88.20	-54.36	peak
2	1702.042	4.33	26.22	61.72	66.00	34.83	74.00	-39.17	peak
3	4443.453	7.19	34.28	61.58	64.05	43.94	88.20	-44.26	peak
4	8271.880	9.31	36.70	61.73	62.19	46.47	74.00	-27.53	peak
5	13710.000	12.87	39.12	62.63	59.34	48.70	88.20	-39.50	peak
6	17793.090	15.23	43.89	61.09	52.19	50.22	74.00	-23.78	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(52 RU); Bandwidth:20MHz; Channel:Low

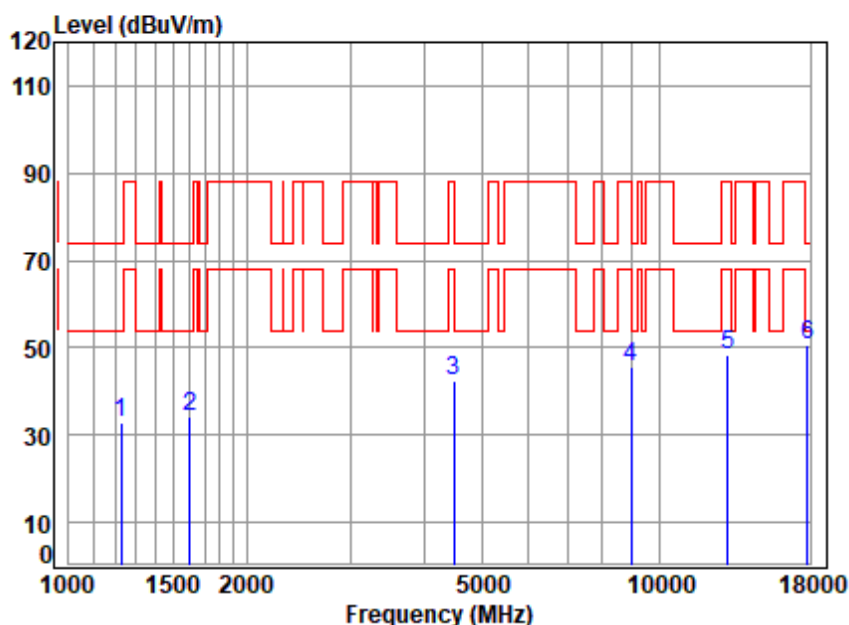


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6535 TX RSE  
Note : 6E WIFI 11AX20 Partial RU  
: External ant

	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	1242.068	3.74	24.99	61.57	65.35	32.51	88.20	-55.69	peak
2	1606.441	4.19	26.74	61.69	64.80	34.04	74.00	-39.96	peak
3	4430.628	7.17	34.43	61.57	62.23	42.26	88.20	-45.94	peak
4	8563.818	9.58	36.83	61.83	60.62	45.20	88.20	-43.00	peak
5	13070.000	12.29	38.31	62.66	60.62	48.56	88.20	-39.64	peak
6	17793.090	15.23	43.89	61.09	52.63	50.66	74.00	-23.34	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(52 RU); Bandwidth:20MHz; Channel:Low

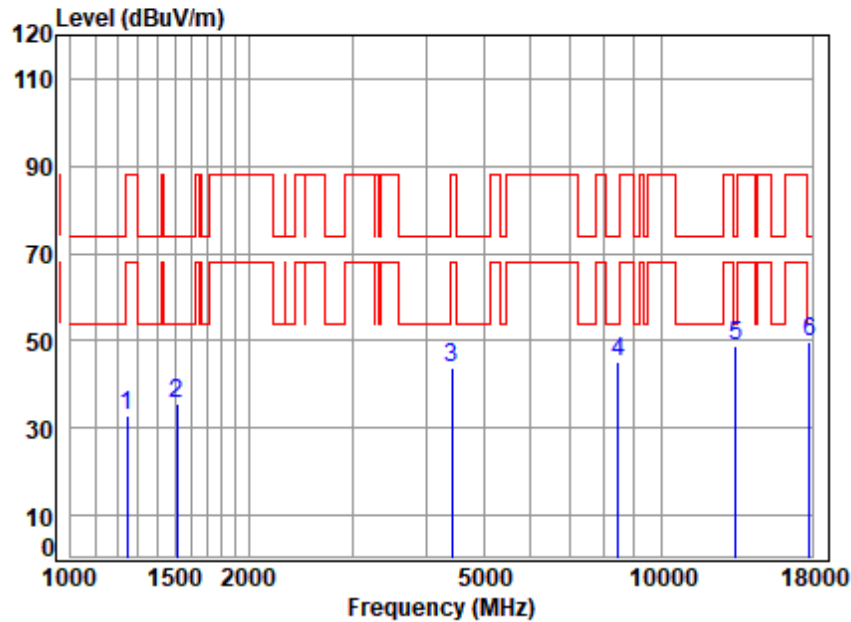


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6535 TX RSE  
Note : 6E WIFI 11AX20 Partial RU  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1227.791	3.72	24.79	61.56	66.13	33.08	74.00	-40.92	peak
2	1606.441	4.19	26.74	61.69	65.16	34.40	74.00	-39.60	peak
3	4482.150	7.23	33.81	61.61	63.13	42.56	88.20	-45.64	peak
4	8969.161	9.90	36.96	61.96	60.58	45.48	88.20	-42.72	peak
5	13070.000	12.29	38.31	62.66	60.28	48.22	88.20	-39.98	peak
6	p17844.590	15.29	43.90	61.04	52.66	50.81	74.00	-23.19	peak



Test Mode: 09; Polarity: Horizontal; Modulation: 802.11ax(52 RU); Bandwidth: 20MHz; Channel: middle

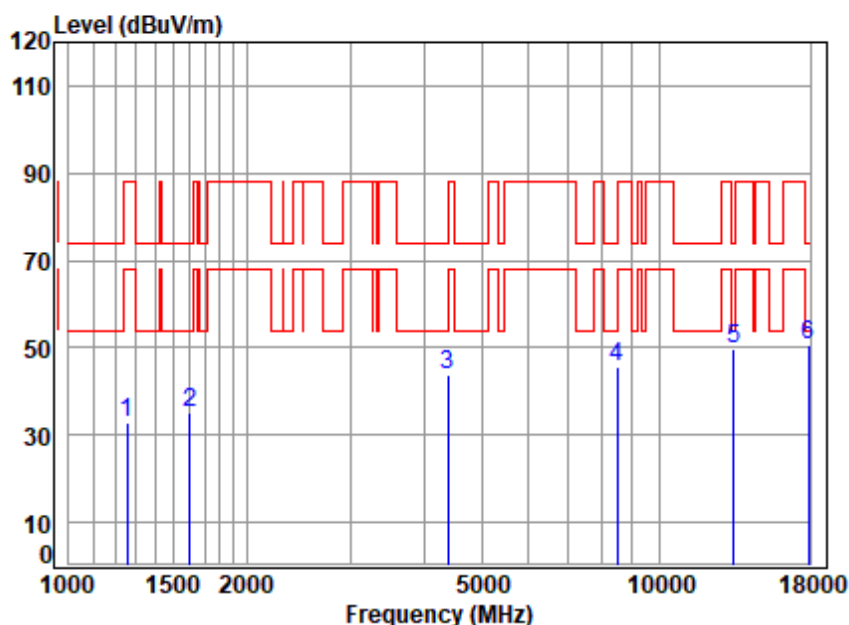


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6695 TX RSE  
Note : 6E WIFI 11AX20 Partial RU  
: External ant

		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	1245.663	3.74	25.04	61.57	65.72	32.93	88.20	-55.27	peak
2	1511.833	4.06	26.85	61.66	66.37	35.62	74.00	-38.38	peak
3	4417.841	7.16	34.59	61.56	63.66	43.85	88.20	-44.35	peak
4	8440.945	9.47	36.62	61.79	60.94	45.24	74.00	-28.76	peak
5	13390.000	12.63	38.78	62.64	60.25	49.02	74.00	-24.98	peak
6	p17844.590	15.29	43.90	61.04	51.51	49.66	74.00	-24.34	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(52 RU); Bandwidth:20MHz; Channel:middle

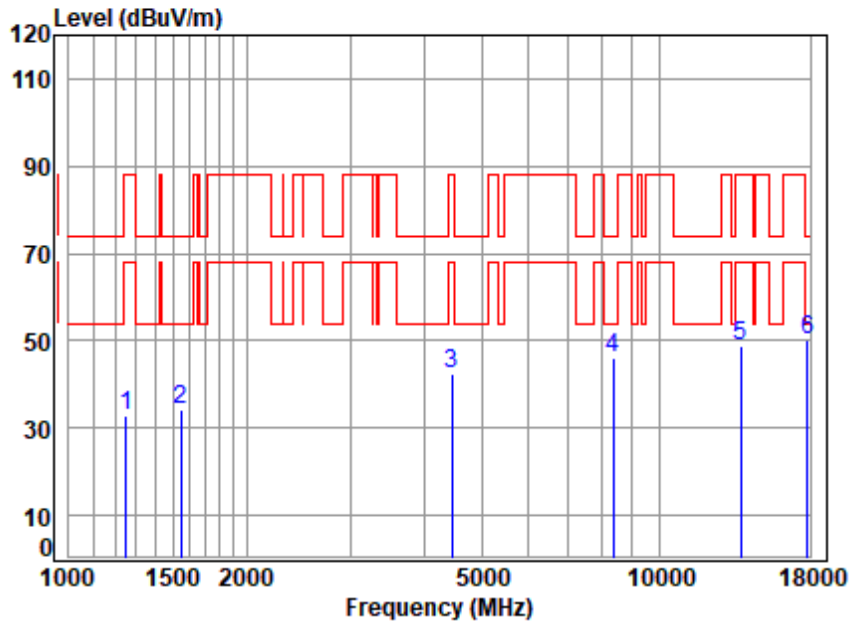


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6695 TX RSE  
Note : 6E WIFI 11AX20 Partial RU  
: External ant

	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	1256.512	3.76	25.06	61.58	65.47	32.71	88.20	-55.49	peak
2	1606.441	4.19	26.74	61.69	65.92	35.16	74.00	-38.84	peak
3	4392.376	7.13	34.74	61.53	63.42	43.76	74.00	-30.24	peak
4	8489.882	9.52	36.68	61.81	61.18	45.57	74.00	-28.43	peak
5	13390.000	12.63	38.78	62.64	60.88	49.65	74.00	-24.35	peak
6	p17896.250	15.35	43.90	60.99	52.41	50.67	74.00	-23.33	peak



Test Mode: 09; Polarity: Horizontal; Modulation:802.11ax(52 RU); Bandwidth:20MHz; Channel:High

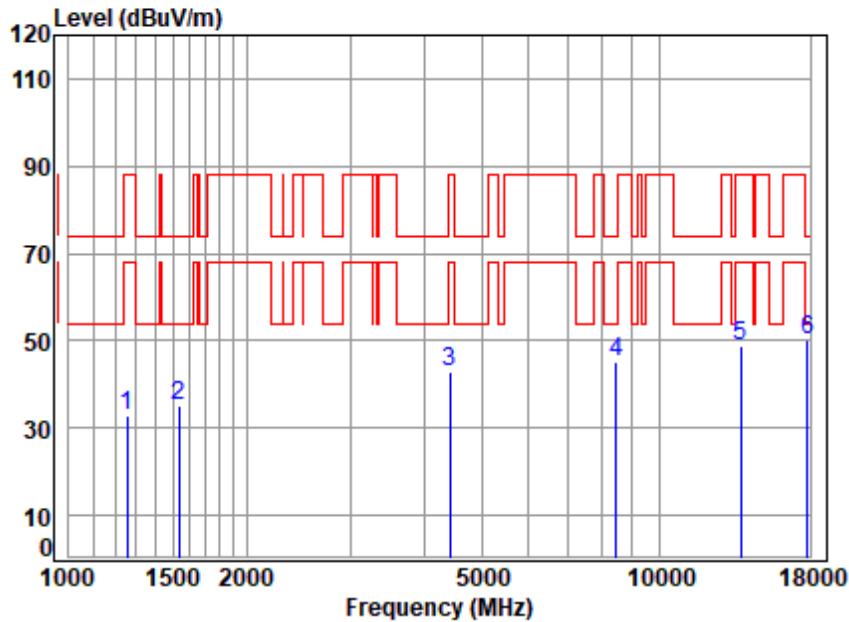


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6855 TX RSE  
Note : 6E WIFI 11AX20 Partial RU  
: External ant

	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	1252.885	3.75	25.08	61.57	65.50	32.76	88.20	-55.44	peak
2	1547.199	4.11	26.99	61.67	64.87	34.30	74.00	-39.70	peak
3	4456.315	7.20	34.12	61.59	62.65	42.38	88.20	-45.82	peak
4	8368.069	9.40	36.70	61.76	61.59	45.93	74.00	-28.07	peak
5	13710.000	12.87	39.12	62.63	59.38	48.74	88.20	-39.46	peak
6	p17844.590	15.29	43.90	61.04	51.95	50.10	74.00	-23.90	peak



Test Mode: 09; Polarity: Vertical; Modulation:802.11ax(52 RU); Bandwidth:20MHz; Channel:High

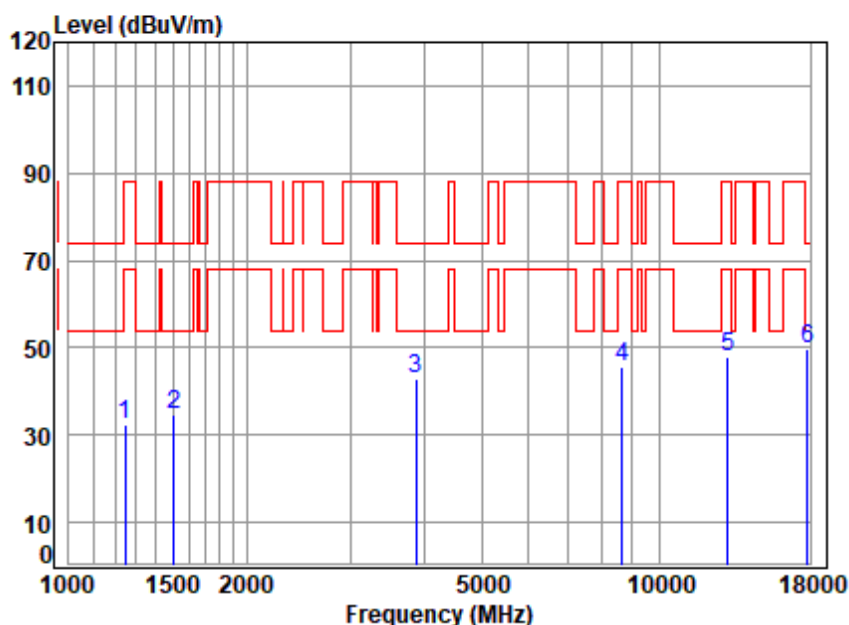


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6855 TX RSE  
Note : 6E WIFI 11AX20 Partial RU  
: External ant

	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	1256.512	3.76	25.06	61.58	65.70	32.94	88.20	-55.26	peak
2	1538.281	4.10	26.95	61.67	65.59	34.97	74.00	-39.03	peak
3	4417.841	7.16	34.59	61.56	62.63	42.82	88.20	-45.38	peak
4	8440.945	9.47	36.62	61.79	60.68	44.98	74.00	-29.02	peak
5	13710.000	12.87	39.12	62.63	59.28	48.64	88.20	-39.56	peak
6	p17844.590	15.29	43.90	61.04	52.15	50.30	74.00	-23.70	peak



Test Mode: 09; Polarity: Horizontal; Hob Position Left; Bandwidth:20MHz; Channel:Low;

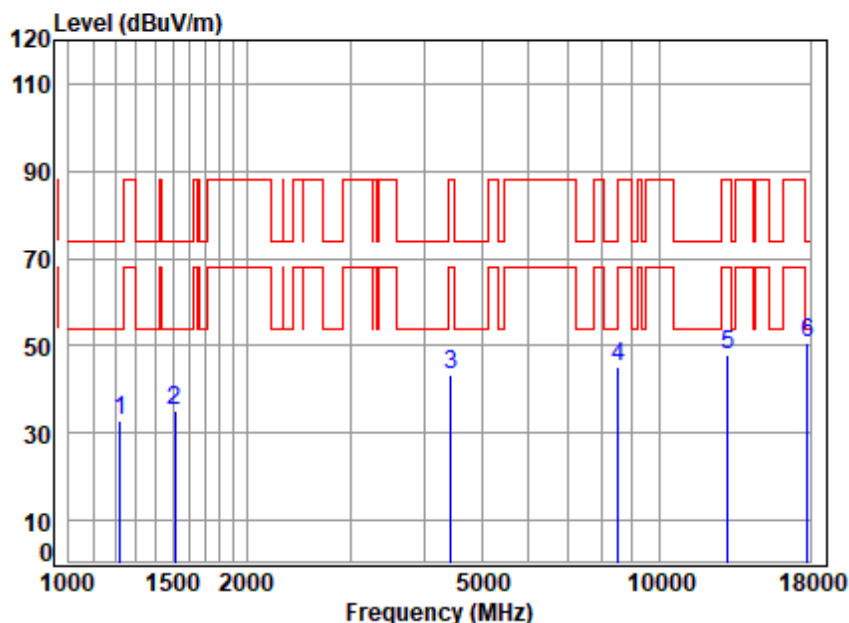


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6535 TX RSE  
Note : 6E WIFI 11BE20 MRU(Small)  
: External ant

		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	1245.663	3.74	25.04	61.57	65.30	32.51	88.20	-55.69	peak
2	1507.470	4.05	26.83	61.66	65.35	34.57	74.00	-39.43	peak
3	3867.831	6.62	33.35	61.20	64.02	42.79	74.00	-31.21	peak
4	8638.399	9.64	36.90	61.85	60.74	45.43	88.20	-42.77	peak
5	13070.000	12.29	38.31	62.66	60.16	48.10	88.20	-40.10	peak
6	p17793.090	15.23	43.89	61.09	51.74	49.77	74.00	-24.23	peak



Test Mode: 09; Polarity: Vertical; Hob Position Left; Bandwidth:20MHz; Channel:Low;

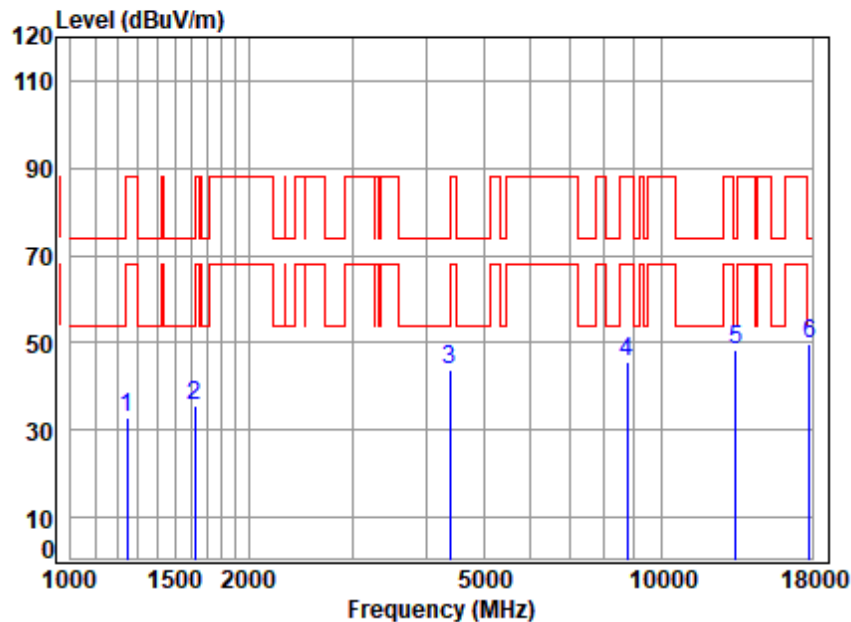


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6535 TX RSE  
Note : 6E WIFI 11BE20 MRU(Small)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1224.247	3.71	24.74	61.56	65.74	32.63	74.00	-41.37	peak
2	1511.833	4.06	26.85	61.66	66.02	35.27	74.00	-38.73	peak
3	4430.628	7.17	34.43	61.57	63.18	43.21	88.20	-44.99	peak
4	8514.456	9.54	36.73	61.81	60.59	45.05	88.20	-43.15	peak
5	13070.000	12.29	38.31	62.66	59.87	47.81	88.20	-40.39	peak
6	p17844.590	15.29	43.90	61.04	52.34	50.49	74.00	-23.51	peak



Test Mode: 09; Polarity: Horizontal; Hob Position Left; Bandwidth:20MHz; Channel:middle;

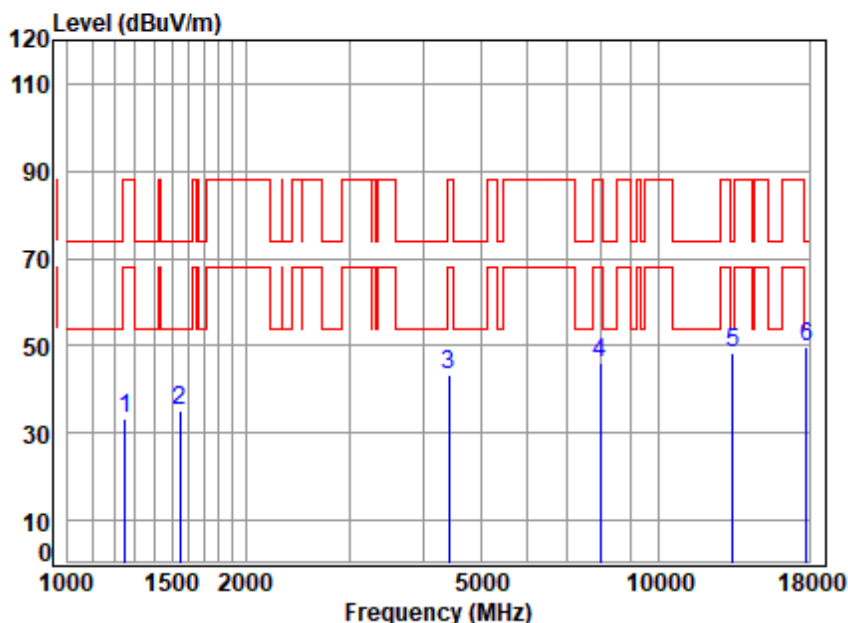


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6695 TX RSE  
Note : 6E WIFI 11BE20 MRU(Small)  
: External ant

		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	1245.663	3.74	25.04	61.57	65.77	32.98	88.20	-55.22	peak
2	1620.431	4.21	26.60	61.69	66.30	35.42	74.00	-38.58	peak
3	4392.376	7.13	34.74	61.53	63.43	43.77	74.00	-30.23	peak
4	8738.852	9.72	36.90	61.89	61.09	45.82	88.20	-42.38	peak
5	13390.000	12.63	38.78	62.64	59.63	48.40	74.00	-25.60	peak
6	p17844.590	15.29	43.90	61.04	51.36	49.51	74.00	-24.49	peak



Test Mode: 09; Polarity: Vertical; Hob Position Left; Bandwidth:20MHz; Channel:middle;

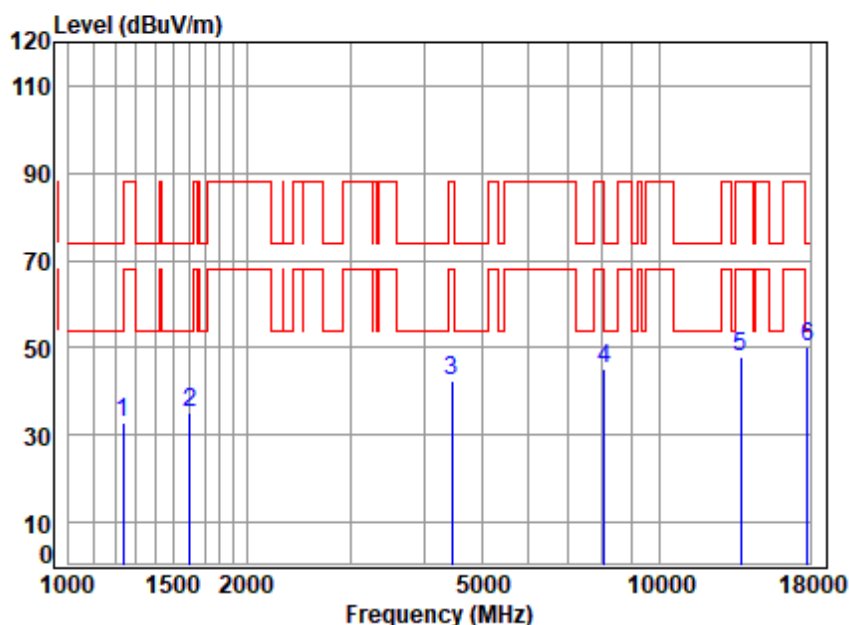


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6695 TX RSE  
Note : 6E WIFI 11BE20 MRU(Small)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1252.885	3.75	25.08	61.57	65.95	33.21	88.20	-54.99	peak
2	1547.199	4.11	26.99	61.67	65.74	35.17	74.00	-38.83	peak
3	4417.841	7.16	34.59	61.56	63.04	43.23	88.20	-44.97	peak
4	7989.893	9.02	36.40	61.64	62.23	46.01	88.20	-42.19	peak
5	13390.000	12.63	38.78	62.64	59.54	48.31	74.00	-25.69	peak
6	p17844.590	15.29	43.90	61.04	51.48	49.63	74.00	-24.37	peak



Test Mode: 09; Polarity: Horizontal; Hob Position Left; Bandwidth:20MHz; Channel:High;

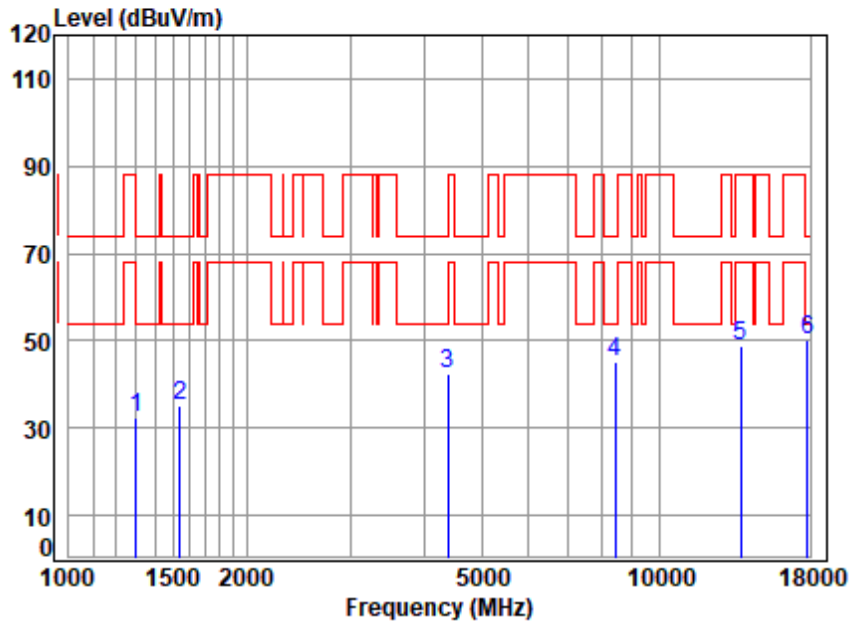


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6855 TX RSE  
Note : 6E WIFI 11BE20 MRU(Small)  
: External ant

		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	1238.483	3.73	24.94	61.57	65.65	32.75	74.00	-41.25	peak
2	1606.441	4.19	26.74	61.69	65.93	35.17	74.00	-38.83	peak
3	4456.315	7.20	34.12	61.59	62.68	42.41	88.20	-45.79	peak
4	8059.475	9.09	36.42	61.66	61.25	45.10	74.00	-28.90	peak
5	13710.000	12.87	39.12	62.63	58.64	48.00	88.20	-40.20	peak
6	p17844.590	15.29	43.90	61.04	52.19	50.34	74.00	-23.66	peak



Test Mode: 09; Polarity: Vertical; Hob Position Left; Bandwidth:20MHz; Channel:High;

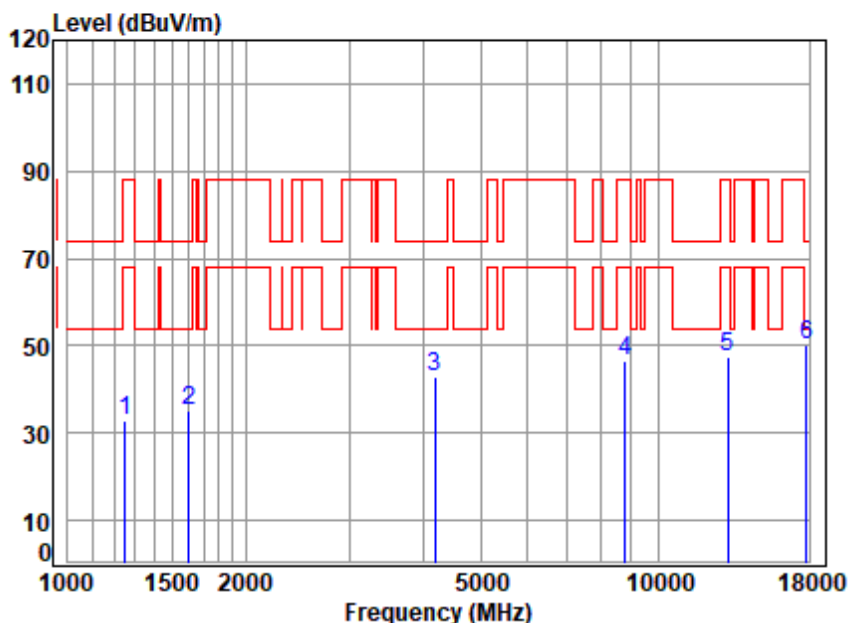


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6855 TX RSE  
Note : 6E WIFI 11BE20 MRU(Small)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1300.858	3.81	24.79	61.59	65.46	32.47	74.00	-41.53	peak
2	1542.733	4.10	26.97	61.67	65.62	35.02	74.00	-38.98	peak
3	4392.376	7.13	34.74	61.53	62.23	42.57	74.00	-31.43	peak
4	8416.584	9.45	36.67	61.78	60.76	45.10	74.00	-28.90	peak
5	13710.000	12.87	39.12	62.63	59.52	48.88	88.20	-39.32	peak
6	17793.090	15.23	43.89	61.09	52.19	50.22	74.00	-23.78	peak



Test Mode: 09; Polarity: Horizontal; Hob Position Left; Bandwidth:40MHz; Channel:Low;

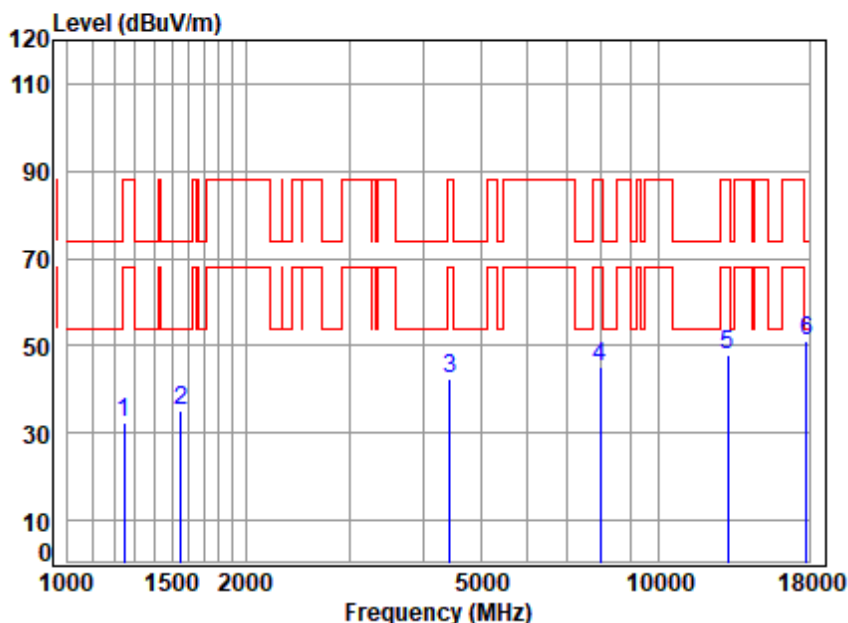


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6565 TX RSE  
Note : 6E WIFI 11BE40 MRU(Small)  
: External ant

		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	1249.269	3.75	25.09	61.57	65.69	32.96	88.20	-55.24	peak
2	1601.804	4.19	26.78	61.69	65.83	35.11	74.00	-38.89	peak
3	4181.768	6.88	33.80	61.34	63.35	42.69	74.00	-31.31	peak
4	8789.516	9.76	37.06	61.90	61.39	46.31	88.20	-41.89	peak
5	13130.000	12.35	38.46	62.66	59.47	47.62	88.20	-40.58	peak
6	p17793.090	15.23	43.89	61.09	51.96	49.99	74.00	-24.01	peak



Test Mode: 09; Polarity: Vertical; Hob Position Left; Bandwidth:40MHz; Channel:Low;

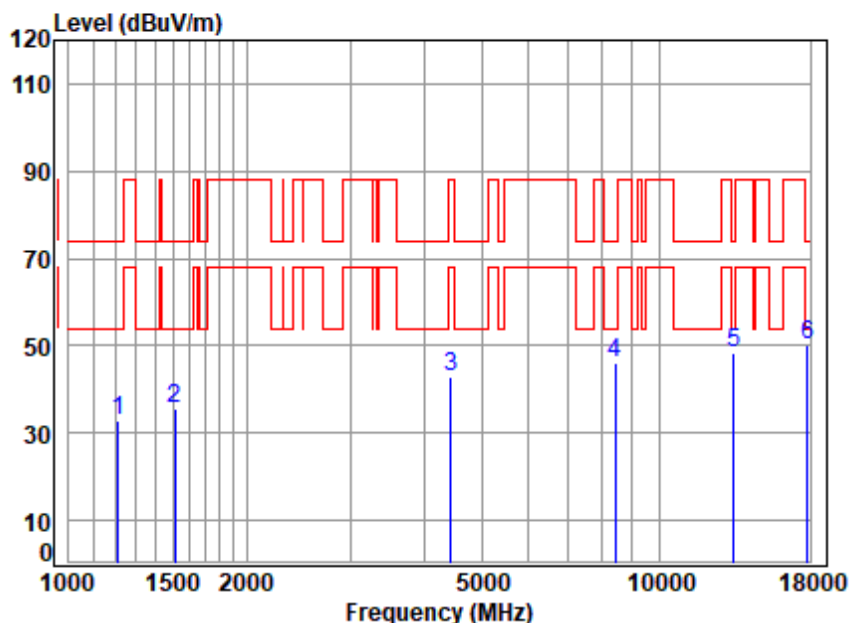


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6565 TX RSE  
Note : 6E WIFI 11BE40 MRU(Small)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1245.663	3.74	25.04	61.57	65.05	32.26	88.20	-55.94	peak
2	1556.169	4.12	26.98	61.67	65.49	34.92	74.00	-39.08	peak
3	4430.628	7.17	34.43	61.57	62.37	42.40	88.20	-45.80	peak
4	7989.893	9.02	36.40	61.64	61.38	45.16	88.20	-43.04	peak
5	13130.000	12.35	38.46	62.66	59.91	48.06	88.20	-40.14	peak
6	17793.090	15.23	43.89	61.09	53.26	51.29	74.00	-22.71	peak



Test Mode: 09; Polarity: Horizontal; Hob Position Left; Bandwidth:40MHz; Channel:middle;

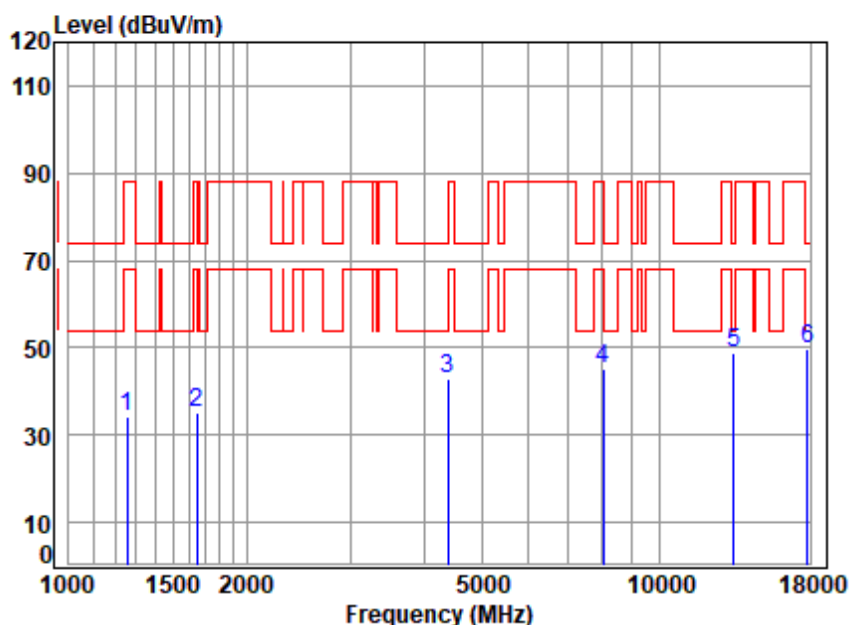


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6685 TX RSE  
Note : 6E WIFI 11BE40 MRU(Small)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1210.174	3.70	24.54	61.56	66.33	33.01	74.00	-40.99	peak
2	1511.833	4.06	26.85	61.66	66.20	35.45	74.00	-38.55	peak
3	4430.628	7.17	34.43	61.57	62.89	42.92	88.20	-45.28	peak
4	8416.584	9.45	36.67	61.78	61.63	45.97	74.00	-28.03	peak
5	13370.000	12.61	38.74	62.65	59.62	48.32	74.00	-25.68	peak
6	p17793.090	15.23	43.89	61.09	52.22	50.25	74.00	-23.75	peak



Test Mode: 09; Polarity: Vertical; Hob Position Left; Bandwidth:40MHz; Channel:middle;

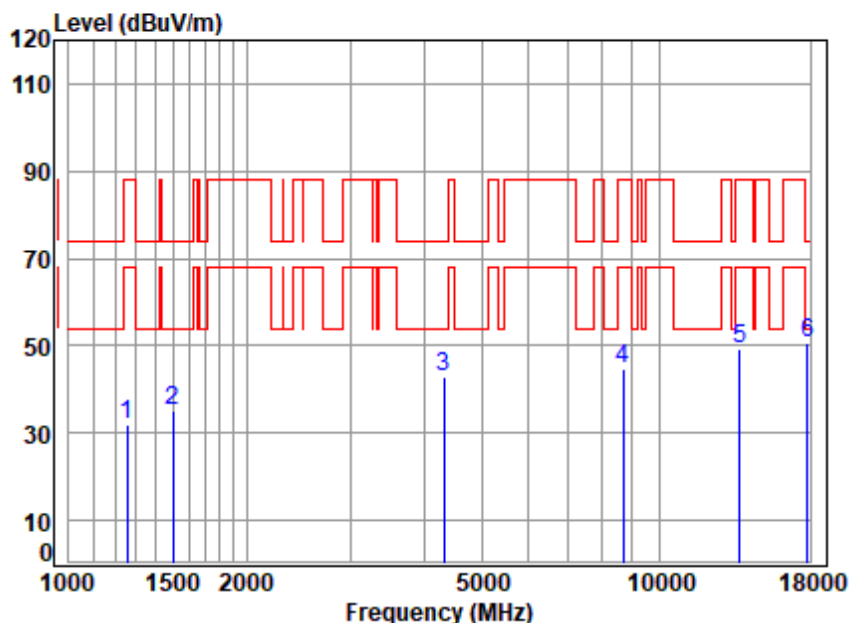


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6685 TX RSE  
Note : 6E WIFI 11BE40 MRU(Small)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.76	25.06	61.58	66.97	34.21	88.20	-53.99	peak
2	1648.778	4.25	26.31	61.70	66.36	35.22	88.20	-52.98	peak
3	4392.376	7.13	34.74	61.53	62.43	42.77	74.00	-31.23	peak
4	8036.214	9.07	36.40	61.65	61.35	45.17	74.00	-28.83	peak
5	13370.000	12.61	38.74	62.65	60.07	48.77	74.00	-25.23	peak
6	17793.090	15.23	43.89	61.09	51.73	49.76	74.00	-24.24	peak



Test Mode: 09; Polarity: Horizontal; Hob Position Left; Bandwidth:40MHz; Channel:High;

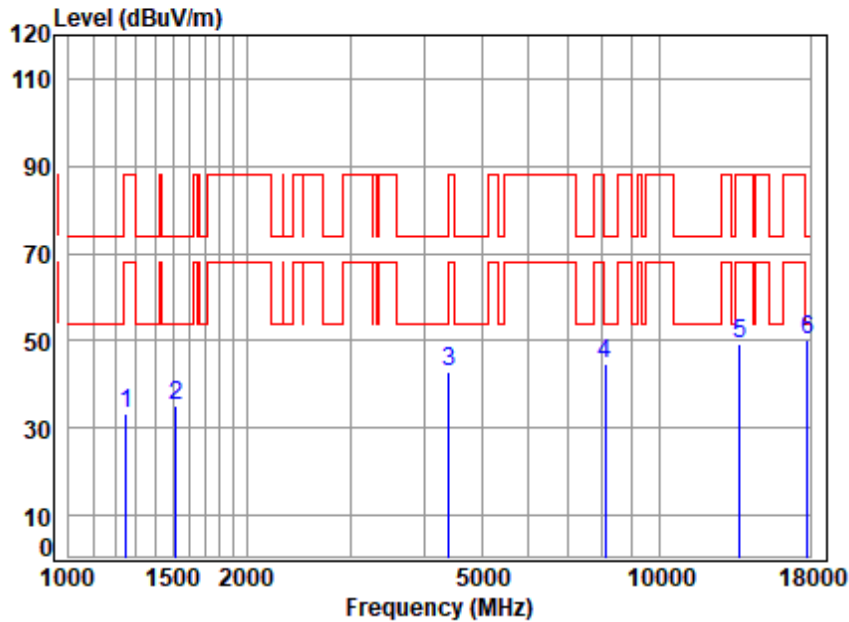


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6845 TX RSE  
Note : 6E WIFI 11BE40 MRU(Small)  
: External ant

		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	1256.512	3.76	25.06	61.58	64.89	32.13	88.20	-56.07	peak
2	1503.119	4.04	26.81	61.66	65.84	35.03	74.00	-38.97	peak
3	4316.859	7.04	34.13	61.47	63.04	42.74	74.00	-31.26	peak
4	8688.480	9.68	36.90	61.87	60.09	44.80	88.20	-43.40	peak
5	13690.000	12.86	39.08	62.63	60.05	49.36	88.20	-38.84	peak
6	17844.590	15.29	43.90	61.04	52.45	50.60	74.00	-23.40	peak



Test Mode: 09; Polarity: Vertical; Hob Position Left; Bandwidth:40MHz; Channel:High;

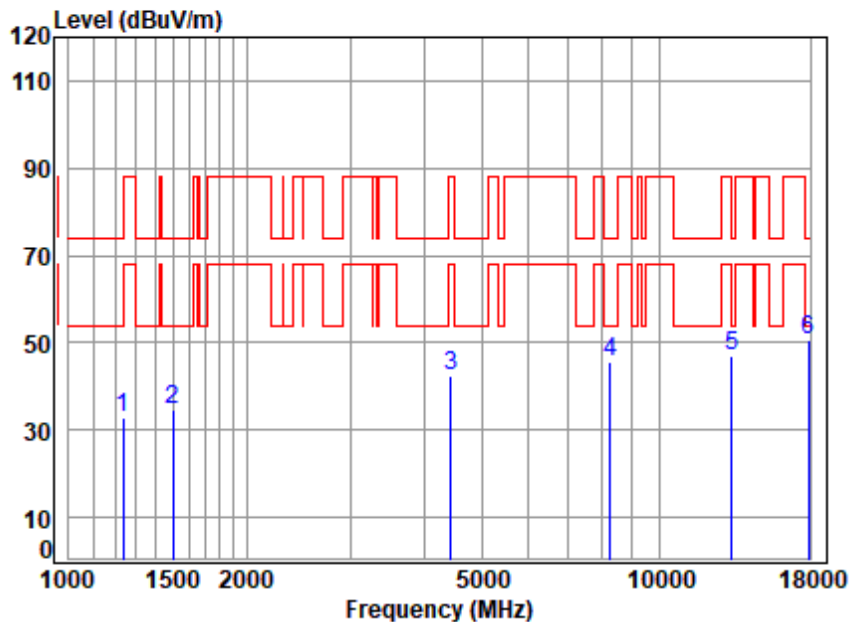


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6845 TX RSE  
Note : 6E WIFI 11BE40 MRU(Small)  
: External ant

		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	1249.269	3.75	25.09	61.57	65.87	33.14	88.20	-55.06	peak
2	1520.598	4.07	26.88	61.66	66.04	35.33	74.00	-38.67	peak
3	4405.090	7.14	34.74	61.55	62.41	42.74	88.20	-45.46	peak
4	8106.200	9.14	36.50	61.68	60.85	44.81	74.00	-29.19	peak
5	13690.000	12.86	39.08	62.63	60.15	49.46	88.20	-38.74	peak
6	17793.090	15.23	43.89	61.09	51.97	50.00	74.00	-24.00	peak



Test Mode: 09; Polarity: Horizontal; Hob Position Left; Bandwidth:80MHz; Channel:Low;

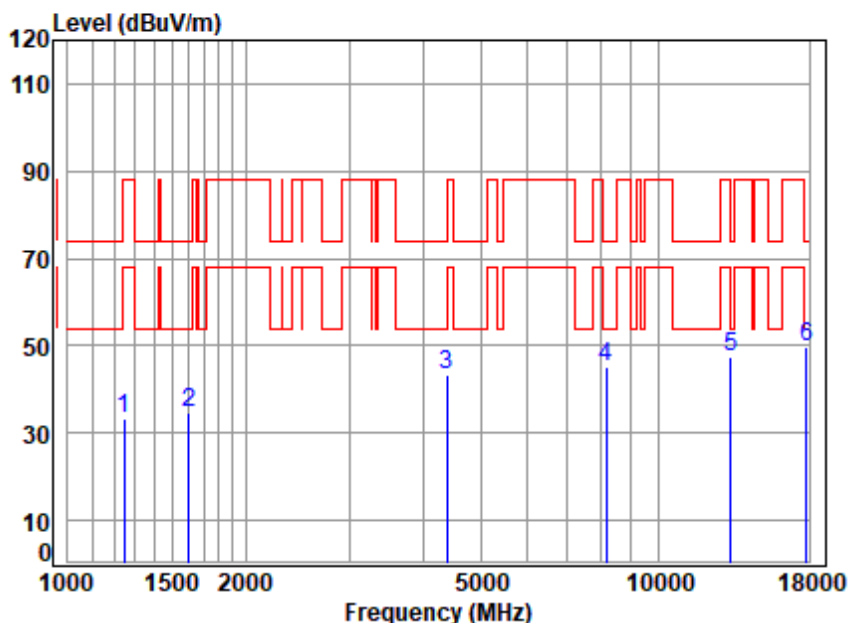


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6625 TX RSE  
Note : 6E WIFI 11BE80 MRU(Large)  
: External ant

		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	1238.483	3.73	24.94	61.57	65.63	32.73	74.00	-41.27	peak
2	1503.119	4.04	26.81	61.66	65.41	34.60	74.00	-39.40	peak
3	4430.628	7.17	34.43	61.57	62.47	42.50	88.20	-45.70	peak
4	8248.005	9.28	36.70	61.72	61.31	45.57	74.00	-28.43	peak
5	13250.000	12.48	38.60	62.65	58.53	46.96	74.00	-27.04	peak
6	p17896.250	15.35	43.90	60.99	52.30	50.56	74.00	-23.44	peak



Test Mode: 09; Polarity: Vertical; Hob Position Left; Bandwidth:80MHz; Channel:Low;

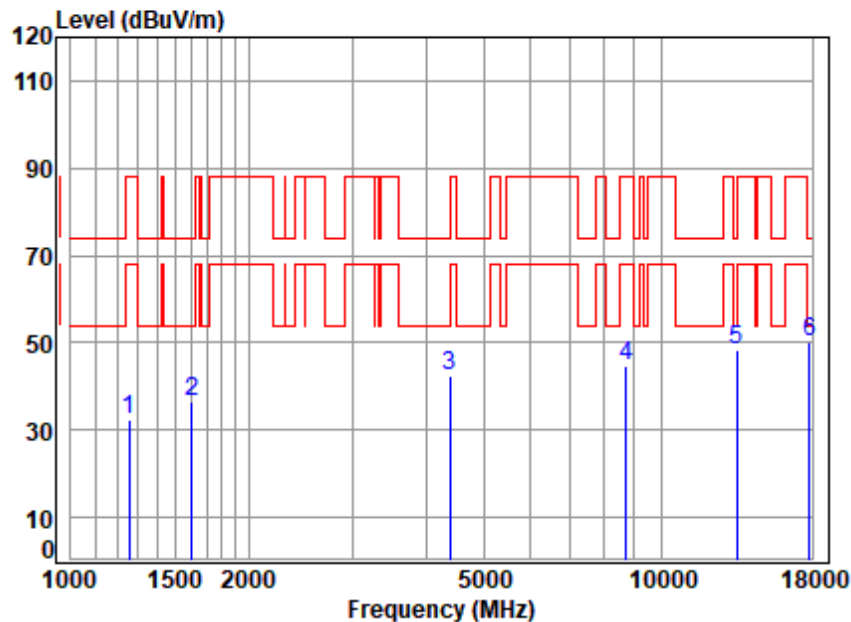


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6625 TX RSE  
Note : 6E WIFI 11BE80 MRU(Large)  
: External ant

		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	1245.663	3.74	25.04	61.57	66.09	33.30	88.20	-54.90	peak
2	1606.441	4.19	26.74	61.69	65.64	34.88	74.00	-39.12	peak
3	4392.376	7.13	34.74	61.53	62.87	43.21	74.00	-30.79	peak
4	8153.195	9.19	36.51	61.69	60.97	44.98	74.00	-29.02	peak
5	13250.000	12.48	38.60	62.65	59.05	47.48	74.00	-26.52	peak
6	p17793.090	15.23	43.89	61.09	51.91	49.94	74.00	-24.06	peak



Test Mode: 09; Polarity: Horizontal; Hob Position Left; Bandwidth:80MHz; Channel:middle;

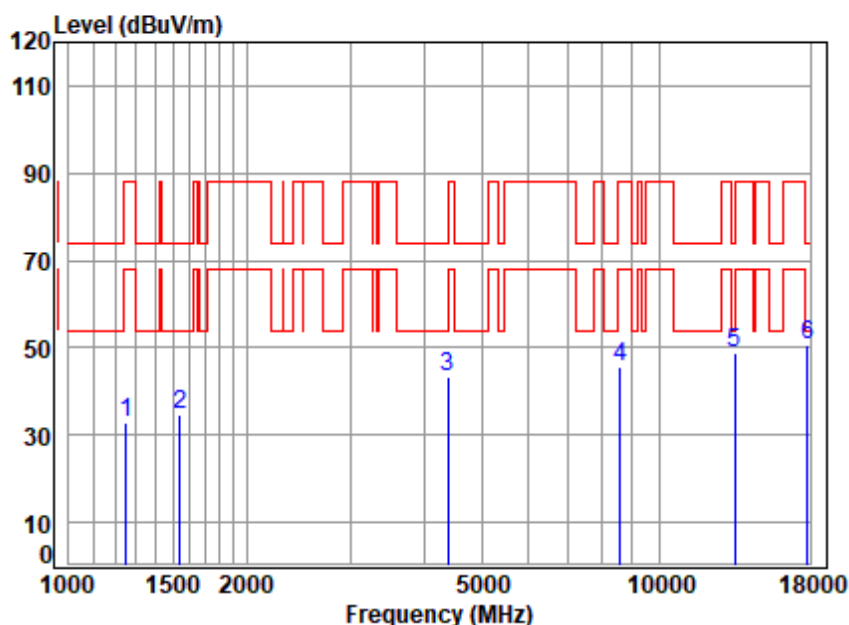


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6705 TX RSE  
Note : 6E WIFI 11BE80 MRU(Large)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.76	25.06	61.58	65.26	32.50	88.20	-55.70	peak
2	1606.441	4.19	26.74	61.69	67.22	36.46	74.00	-37.54	peak
3	4379.699	7.11	34.64	61.52	62.36	42.59	74.00	-31.41	peak
4	8713.630	9.70	36.90	61.88	60.04	44.76	88.20	-43.44	peak
5	13410.000	12.65	38.80	62.64	59.56	48.37	88.20	-39.83	peak
6	17793.090	15.23	43.89	61.09	52.11	50.14	74.00	-23.86	peak



Test Mode: 09; Polarity: Vertical; Hob Position Left; Bandwidth:80MHz; Channel:middle;

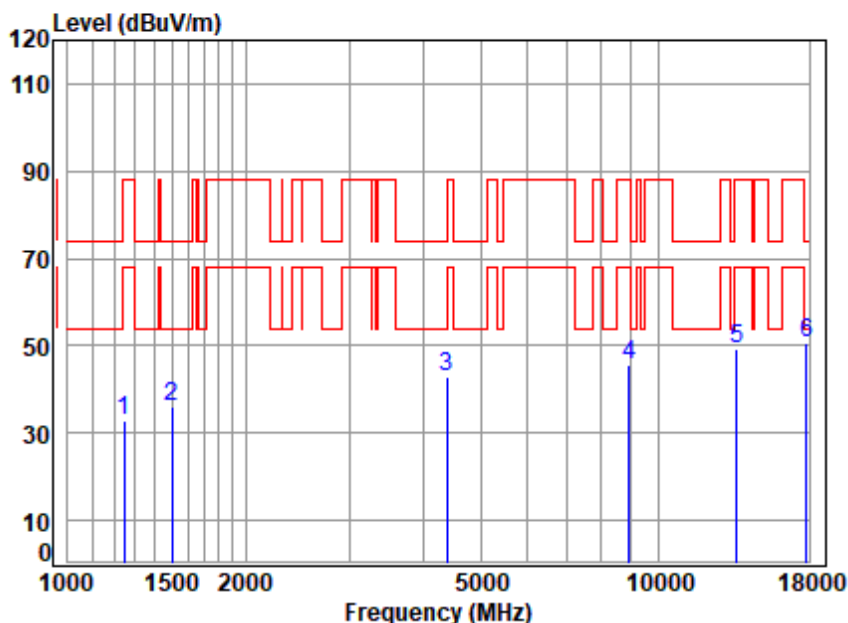


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6705 TX RSE  
Note : 6E WIFI 11BE80 MRU(Large)  
: External ant

		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	1249.269	3.75	25.09	61.57	65.56	32.83	88.20	-55.37	peak
2	1542.733	4.10	26.97	61.67	65.43	34.83	74.00	-39.17	peak
3	4392.376	7.13	34.74	61.53	63.14	43.48	74.00	-30.52	peak
4	8588.607	9.60	36.88	61.84	60.93	45.57	88.20	-42.63	peak
5	13410.000	12.65	38.80	62.64	60.08	48.89	88.20	-39.31	peak
6	p17844.590	15.29	43.90	61.04	52.28	50.43	74.00	-23.57	peak



Test Mode: 09; Polarity: Horizontal; Hob Position Left; Bandwidth:80MHz; Channel:High;

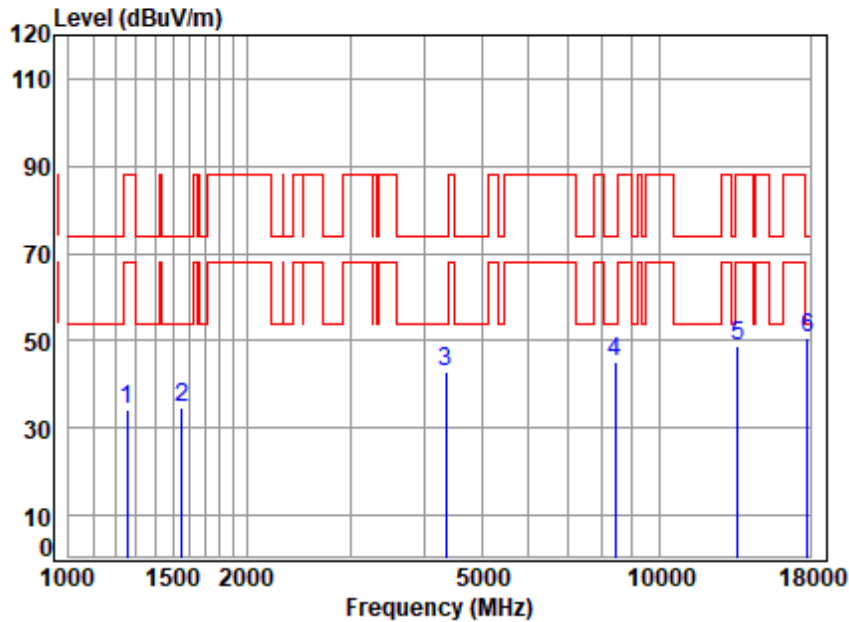


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6785 TX RSE  
Note : 6E WIFI 11BE80 MRU(Large)  
: External ant

		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	1245.663	3.74	25.04	61.57	65.74	32.95	88.20	-55.25	peak
2	1503.119	4.04	26.81	61.66	66.69	35.88	74.00	-38.12	peak
3	4379.699	7.11	34.64	61.52	62.48	42.71	74.00	-31.29	peak
4	8917.462	9.86	37.13	61.94	60.47	45.52	88.20	-42.68	peak
5	13570.000	12.79	38.87	62.63	60.10	49.13	88.20	-39.07	peak
6	p17844.590	15.29	43.90	61.04	52.59	50.74	74.00	-23.26	peak



Test Mode: 09; Polarity: Vertical; Hob Position Left; Bandwidth:80MHz; Channel:High;

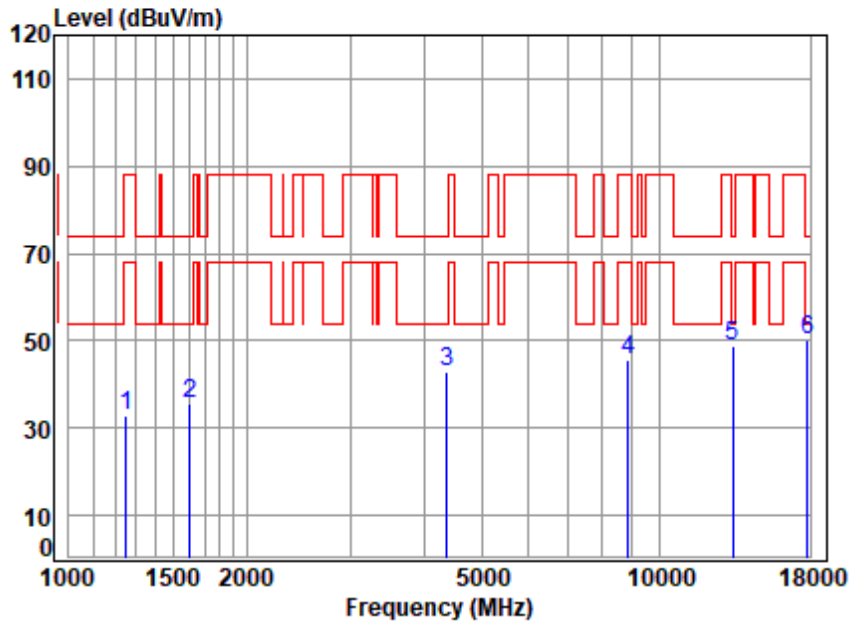


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6785 TX RSE  
Note : 6E WIFI 11BE80 MRU(Large)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1256.512	3.76	25.06	61.58	66.87	34.11	88.20	-54.09	peak
2	1556.169	4.12	26.98	61.67	65.15	34.58	74.00	-39.42	peak
3	4354.454	7.08	34.44	61.50	63.07	43.09	74.00	-30.91	peak
4	8416.584	9.45	36.67	61.78	60.95	45.29	74.00	-28.71	peak
5	13570.000	12.79	38.87	62.63	59.91	48.94	88.20	-39.26	peak
6	p17844.590	15.29	43.90	61.04	52.30	50.45	74.00	-23.55	peak



Test Mode: 09; Polarity: Horizontal; Hob Position Left; Bandwidth:160MHz; Channel:middle;

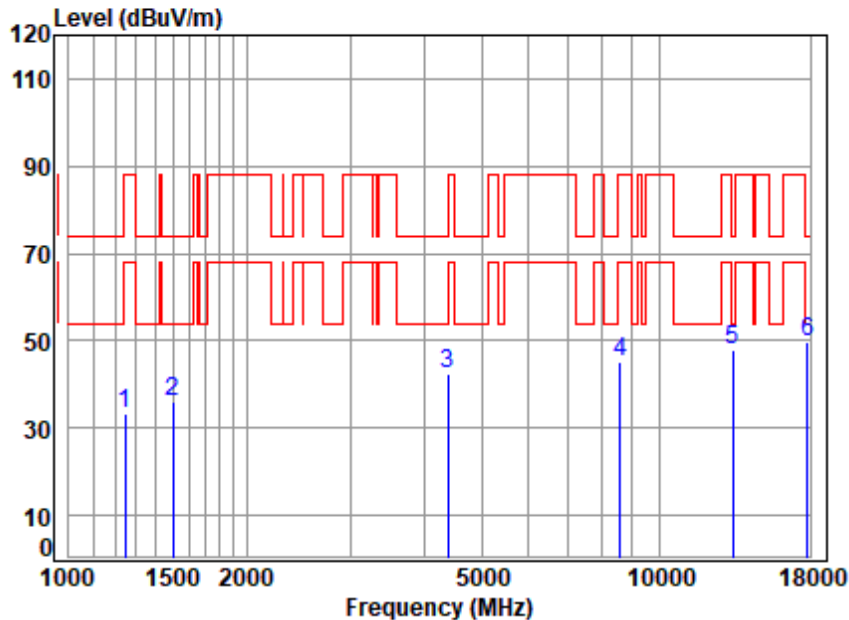


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6665 TX RSE  
Note : 6E WIFI 11BE160 MRU(Large)  
: External ant

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1249.269	3.75	25.09	61.57	65.36	32.63	88.20	-55.57	peak
2	1601.804	4.19	26.78	61.69	66.28	35.56	74.00	-38.44	peak
3	4367.058	7.10	34.54	61.51	62.78	42.91	74.00	-31.09	peak
4	8866.062	9.82	37.20	61.93	60.57	45.66	88.20	-42.54	peak
5	13330.000	12.57	38.66	62.65	60.18	48.76	74.00	-25.24	peak
6	17793.090	15.23	43.89	61.09	52.31	50.34	74.00	-23.66	peak



Test Mode: 09; Polarity: Vertical; Hob Position Left; Bandwidth:160MHz; Channel:middle;



Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6665 TX RSE  
Note : 6E WIFI 11BE160 MRU(Large)  
: External ant

		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	1245.663	3.74	25.04	61.57	66.30	33.51	88.20	-54.69	peak
2	1503.119	4.04	26.81	61.66	66.71	35.90	74.00	-38.10	peak
3	4392.376	7.13	34.74	61.53	61.88	42.22	74.00	-31.78	peak
4	8588.607	9.60	36.88	61.84	60.66	45.30	88.20	-42.90	peak
5	13330.000	12.57	38.66	62.65	59.28	47.86	74.00	-26.14	peak
6	p17844.590	15.29	43.90	61.04	51.70	49.85	74.00	-24.15	peak



## 7.9 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 (2013) 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

Any emission outside the 5925-7125 MHz frequency band shall not exceed -27 dBm/MHz e.i.r.p. spectral density

For transmitters operating within the 5.925–7.125 GHz bands: Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

### 7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.9 °C

Humidity: 54.0 % RH

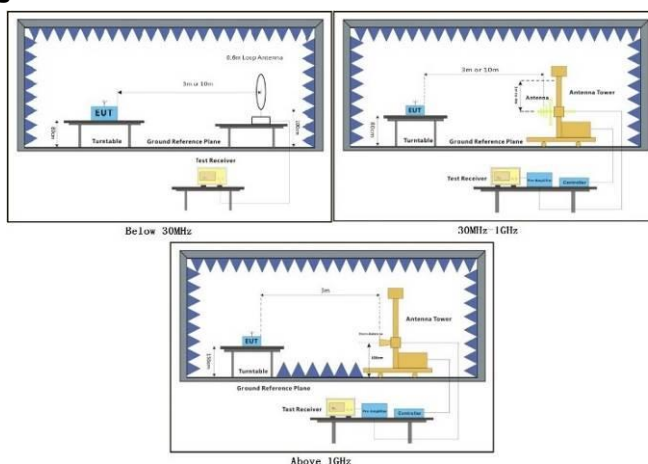
Atmospheric Pressure: 995 mbar



### 7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-5)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-7)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

### 7.9.3 Test Setup Diagram



## 7.9.4 Measurement Procedure and Data

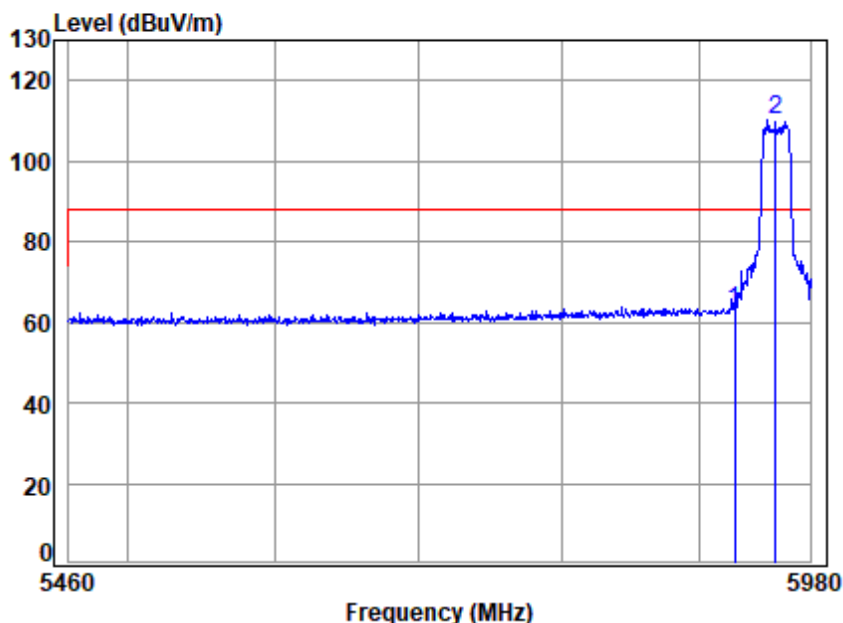
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 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: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark: This device operate as VLP device under U-NII band 5&7, without using band 8, so only the worst case of band 5 result for band edge is recorded in the report.



Test Mode: 07; Polarity: Horizontal; Modulation: 802.11ax(Full RU0); Bandwidth: 20MHz; Channel: Low

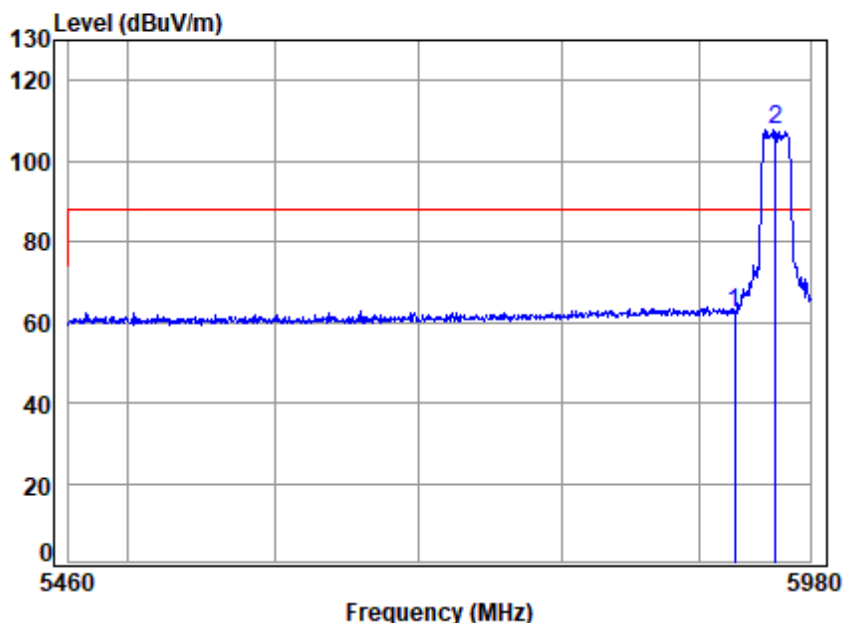


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 5955 Band edge  
: 6G WIFI 11AX20  
: External ant

		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	5925.000	19.58	34.65	34.93	43.53	62.83	88.20	-25.37	peak
2 p	5955.000	19.60	34.72	34.92	90.85	110.25	88.20	22.05	peak



Test Mode: 07; Polarity: Vertical; Modulation:802.11ax(Full RU0); Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 5955 Band edge  
: 6G WIFI 11AX20  
: External ant

		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	5925.000	19.58	34.65	34.93	43.21	62.51	88.20	-25.69	peak
2 p	5955.000	19.60	34.72	34.92	88.49	107.89	88.20	19.69	peak



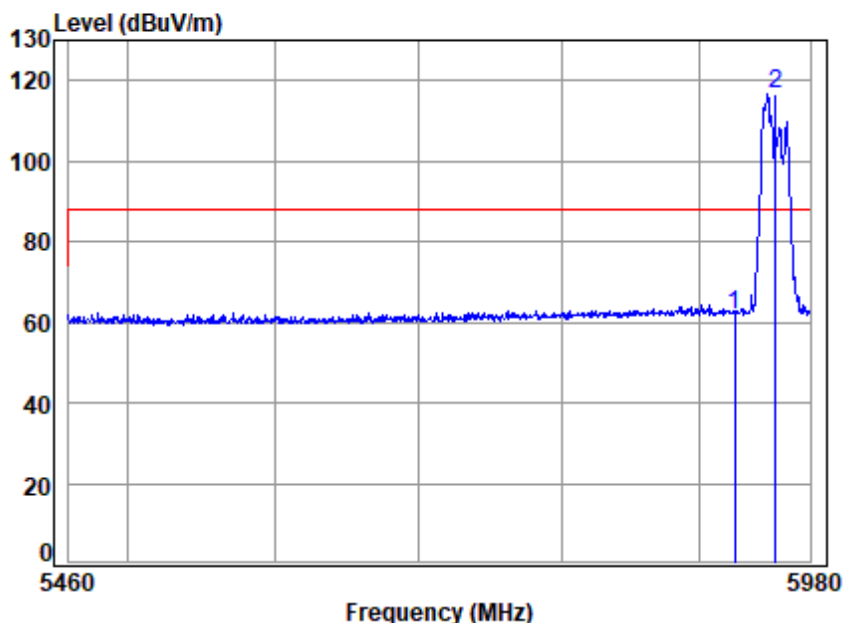
## SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR230700233114

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Test Mode: 07; Polarity: Horizontal; Modulation:802.11ax(52 RU); Bandwidth:20MHz; Channel:Low



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 5955 Band edge  
: 6G WIFI 11AX20 Partial RU  
: External ant

		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	5925.000	19.58	34.65	34.93	42.57	61.87	88.20	-26.33	peak
2 p	5955.000	19.60	34.72	34.92	97.38	116.78	88.20	28.58	peak



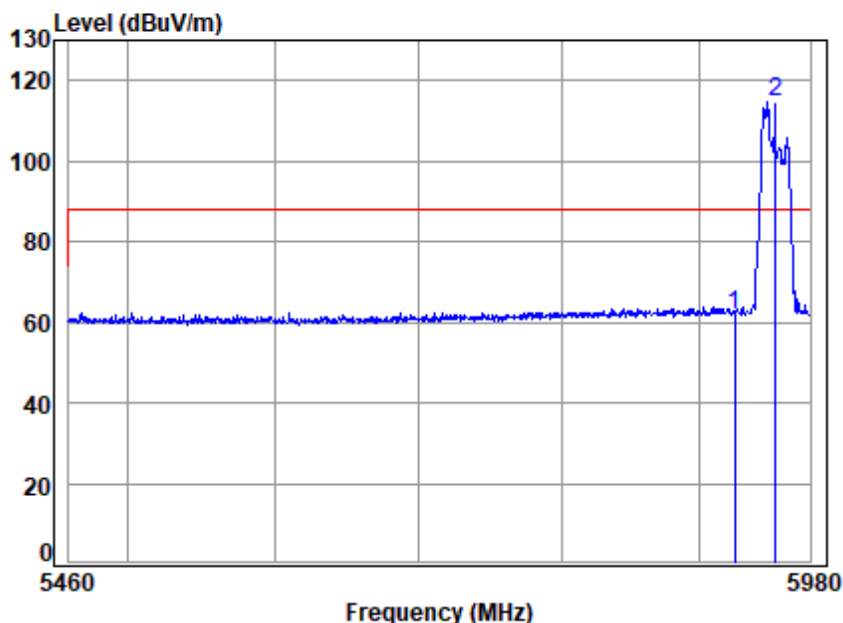
SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Laboratory

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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: 07; Polarity: Vertical; Modulation:802.11ax(52 RU); Bandwidth:20MHz; Channel:Low

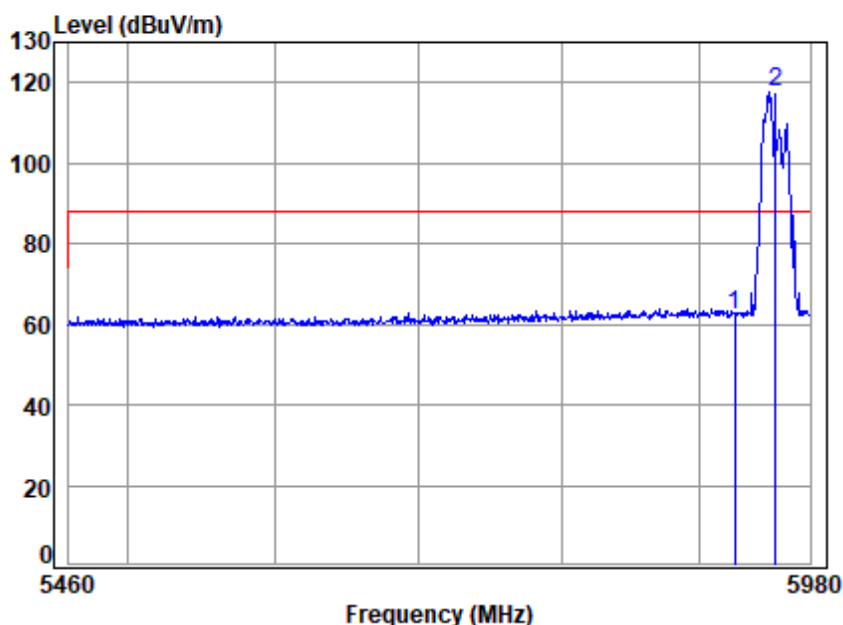


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02331AT/02332AT  
 Mode : 5955 Band edge  
 : 6G WIFI 11AX20 Partial RU  
 : External ant

		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	5925.000	19.58	34.65	34.93	42.29	61.59	88.20	-26.61	peak
2 p	5955.000	19.60	34.72	34.92	95.37	114.77	88.20	26.57	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:20MHz; Channel:Low;

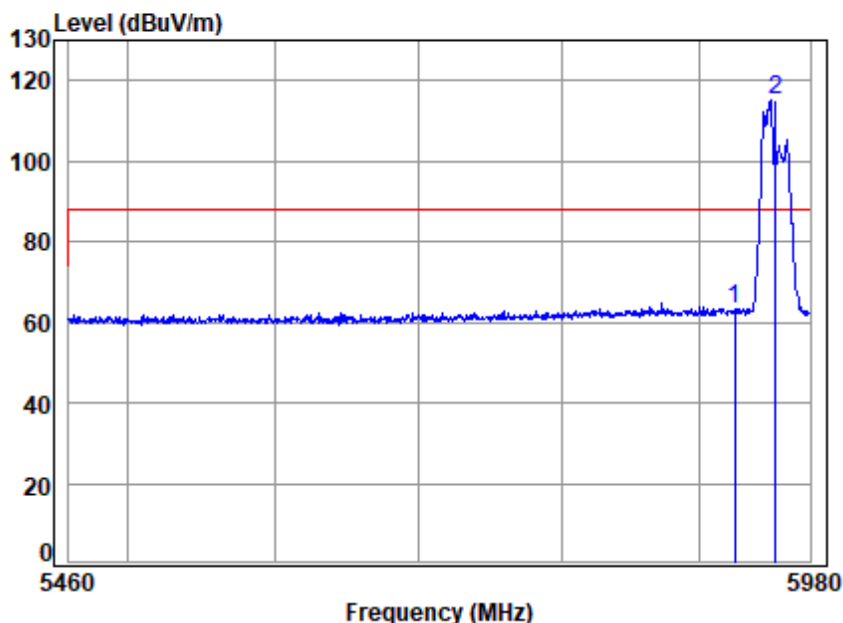


Site : chamber  
 Condition: 3m HORIZONTAL  
 Job No : 02331AT/02332AT  
 Mode : 5955 Band edge  
 : 6G WIFI 11BE20 MRU(Small)  
 : External ant

		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	5925.000	19.58	34.65	34.93	43.09	62.39	88.20	-25.81	peak
2 p	5955.000	19.60	34.72	34.92	98.18	117.58	88.20	29.38	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:20MHz; Channel:Low;

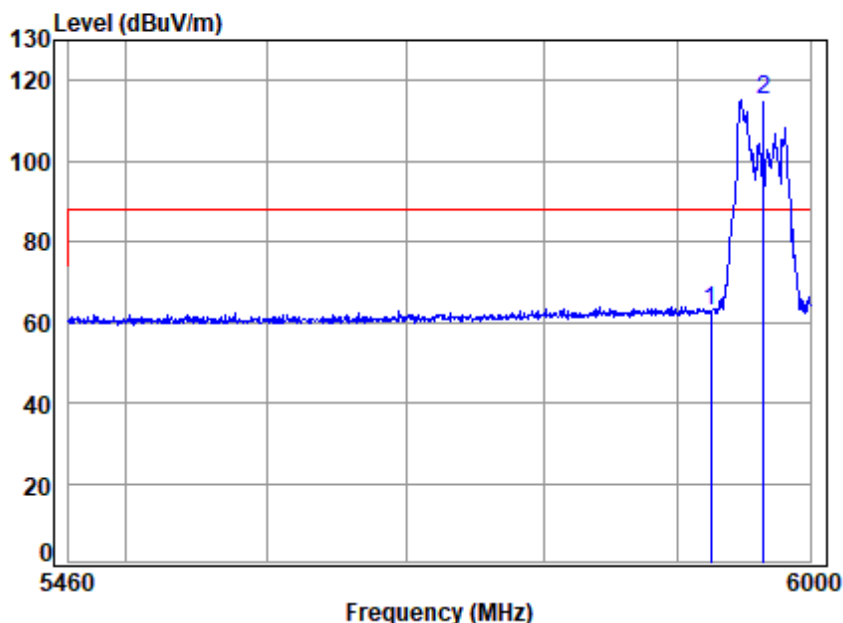


Site : chamber  
 Condition: 3m VERTICAL  
 Job No : 02331AT/02332AT  
 Mode : 5955 Band edge  
 : 6G WIFI 11BE20 MRU(Small)  
 : External ant

		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	5925.000	19.58	34.65	34.93	43.75	63.05	88.20	-25.15	peak
2 p	5955.000	19.60	34.72	34.92	95.72	115.12	88.20	26.92	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:40MHz; Channel:Low;

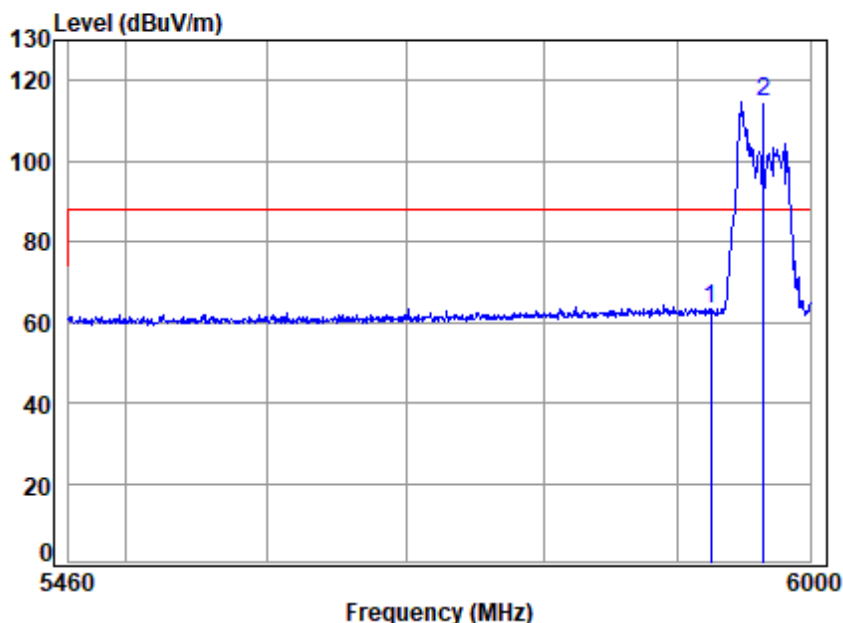


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 5965 Band edge  
: 6G WIFI 11BE40 MRU(Small)  
: External ant

		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	5925.000	19.58	34.65	34.93	43.50	62.80	88.20	-25.40	peak
2 p	5965.000	19.61	34.76	34.92	95.62	115.07	88.20	26.87	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:40MHz; Channel:Low;

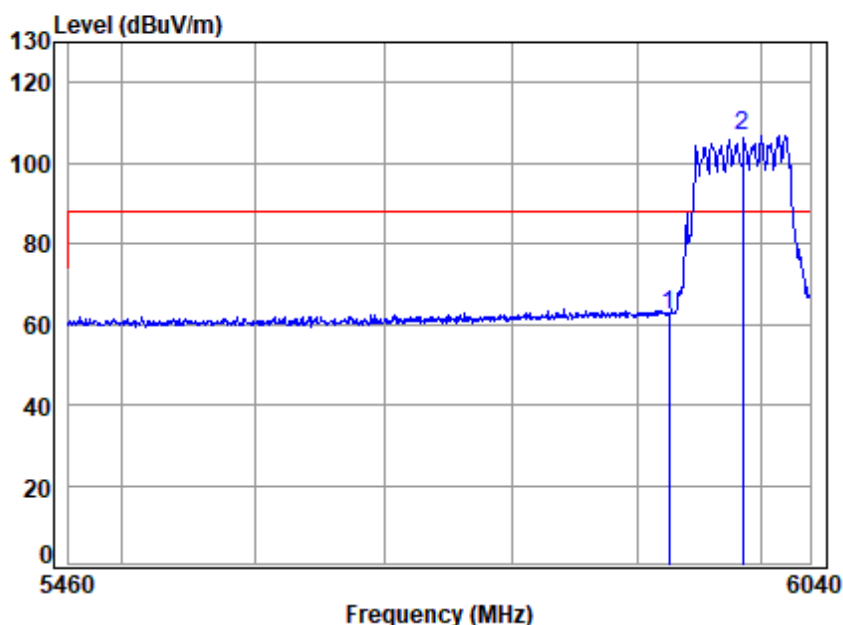


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 5965 Band edge  
: 6G WIFI 11BE40 MRU(Small)  
: External ant

		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	5925.000	19.58	34.65	34.93	44.04	63.34	88.20	-24.86	peak
2 p	5965.000	19.61	34.76	34.92	95.02	114.47	88.20	26.27	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:80MHz; Channel:Low;

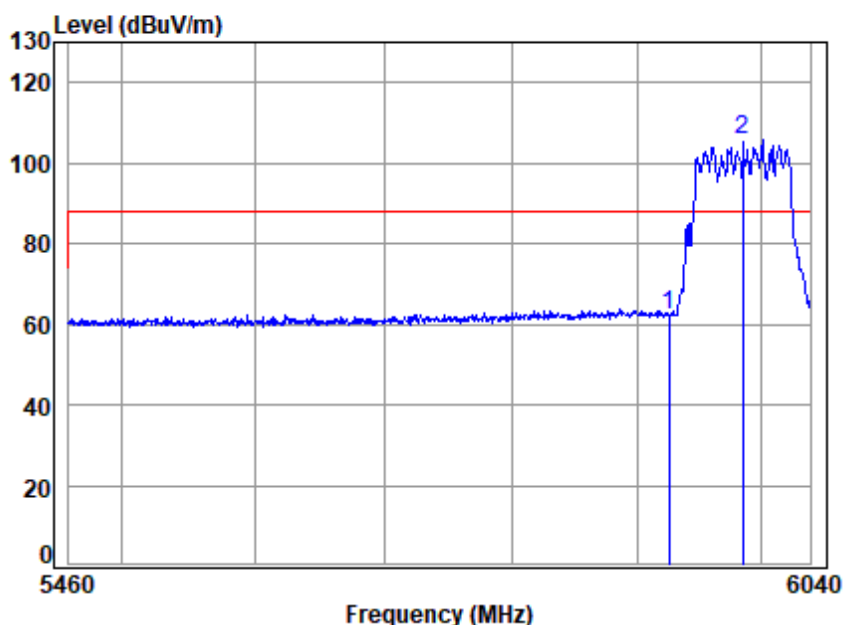


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 5985 Band edge  
: 6G WIFI 11BE80 MRU(Large)  
: External ant

		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	5925.000	19.58	34.65	34.93	42.87	62.17	88.20	-26.03	peak
2 p	5985.000	19.62	34.84	34.91	87.14	106.69	88.20	18.49	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:80MHz; Channel:Low;

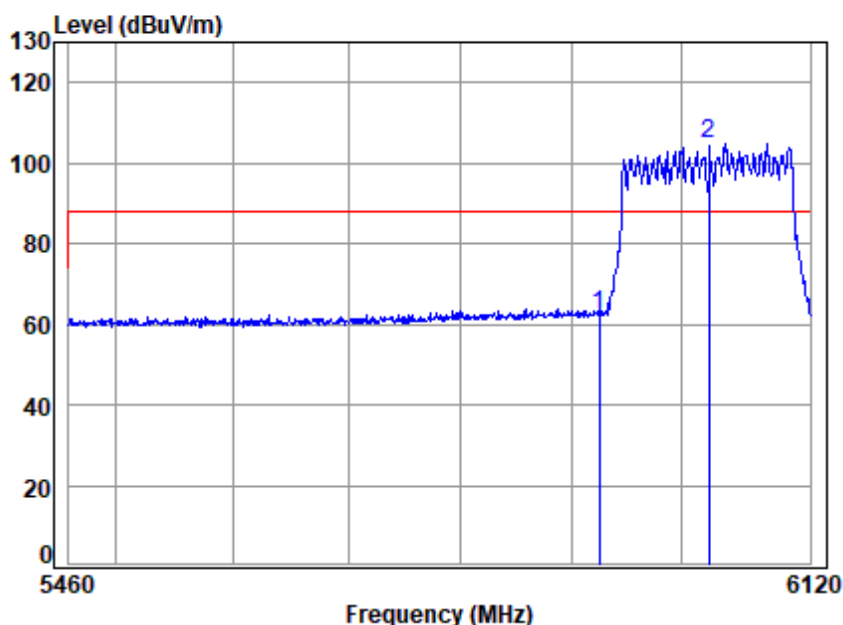


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 5985 Band edge  
: 6G WIFI 11BE80 MRU(Large)  
: External ant

		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	5925.000	19.58	34.65	34.93	42.89	62.19	88.20	-26.01	peak
2 p	5985.000	19.62	34.84	34.91	86.26	105.81	88.20	17.61	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:160MHz; Channel:Low;



Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6025 Band edge  
: 6G WIFI 11BE160 MRU(Large)  
: External ant

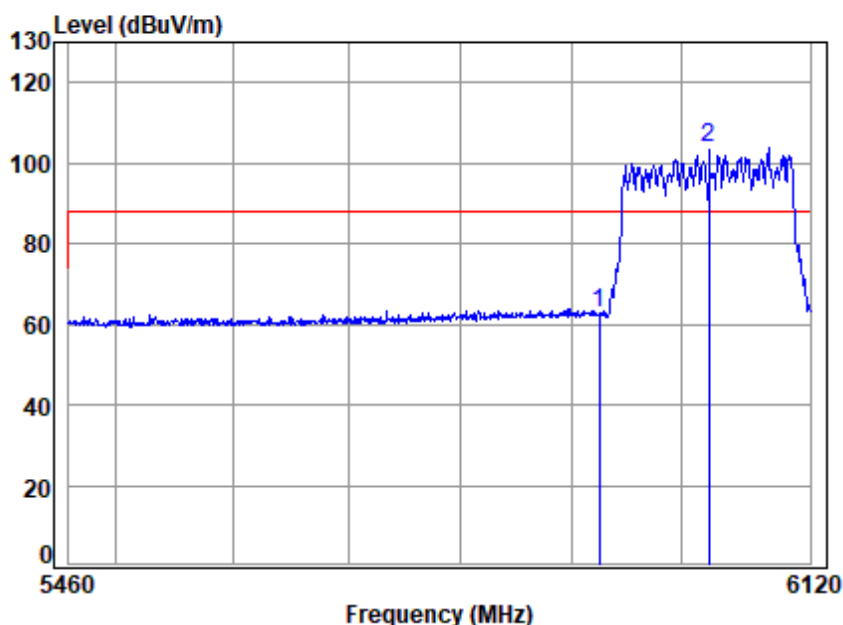
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 5925.000	19.58	34.65	34.93	42.80	62.10	88.20	-26.10	peak
2 p 6025.000	19.65	34.95	34.92	85.01	104.69	88.20	16.49	peak



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Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:160MHz; Channel:Low;

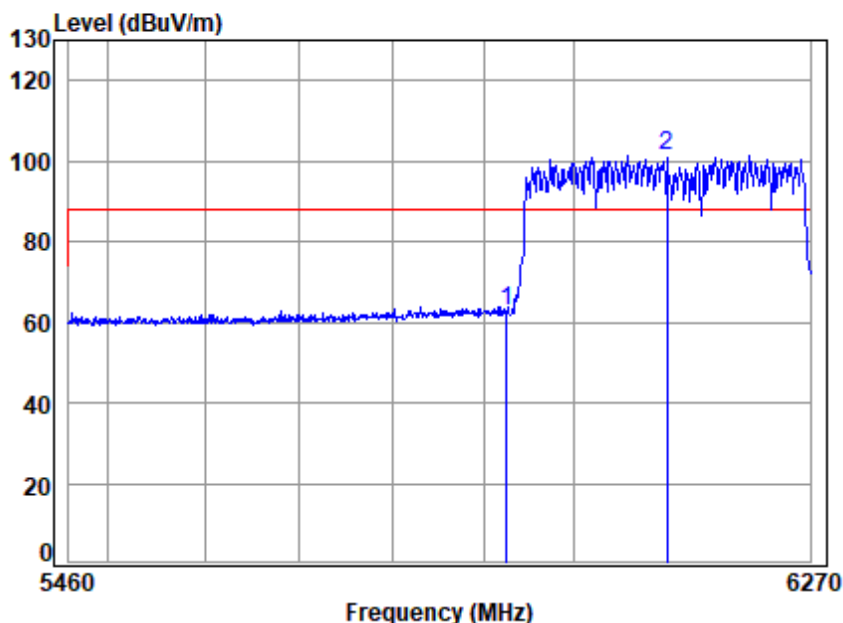


Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6025 Band edge  
: 6G WIFI 11BE160 MRU(Large)  
: External ant

		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	5925.000	19.58	34.65	34.93	43.54	62.84	88.20	-25.36	peak
2 p	6025.000	19.65	34.95	34.92	84.14	103.82	88.20	15.62	peak



Test Mode: 07; Polarity: Horizontal; Hob Position Left; Bandwidth:320MHz; Channel:Low;

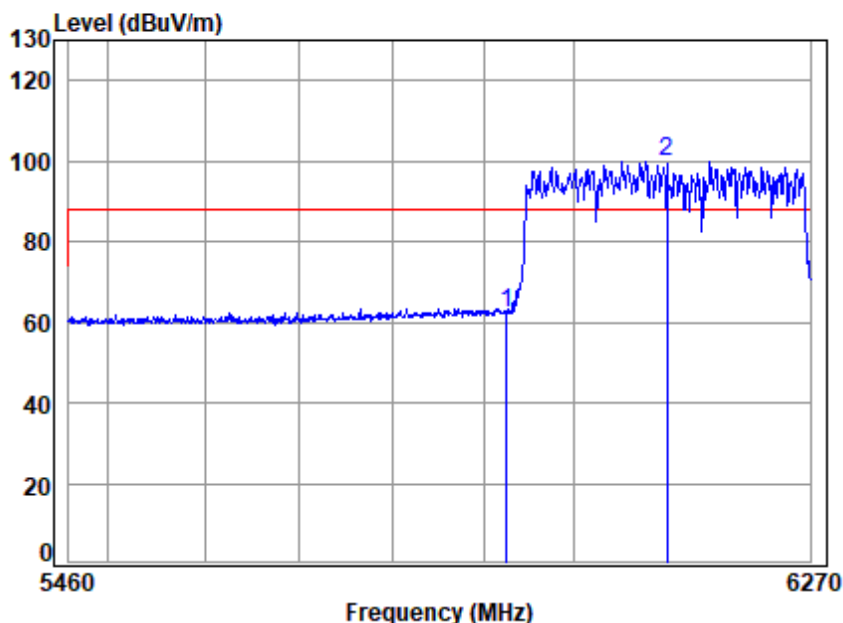


Site : chamber  
Condition: 3m HORIZONTAL  
Job No : 02331AT/02332AT  
Mode : 6105 Band edge  
: 6G WIFI 11BE320 MRU(Large)  
: External ant

		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	5925.000	19.58	34.65	34.93	43.29	62.59	88.20	-25.61	peak
2 p	6105.000	19.71	35.08	34.98	81.34	101.15	88.20	12.95	peak



Test Mode: 07; Polarity: Vertical; Hob Position Left; Bandwidth:320MHz; Channel:Low;



Site : chamber  
Condition: 3m VERTICAL  
Job No : 02331AT/02332AT  
Mode : 6105 Band edge  
: 6G WIFI 11BE320 MRU(Large)  
: External ant

		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	5925.000	19.58	34.65	34.93	42.96	62.26	88.20	-25.94	peak
2 p	6105.000	19.71	35.08	34.98	80.07	99.88	88.20	11.68	peak



### 7.10 Frequency Stability

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

Test Method: ANSI C63.10 (2013) Section 6.8

#### 7.10.1 E.U.T. Operation

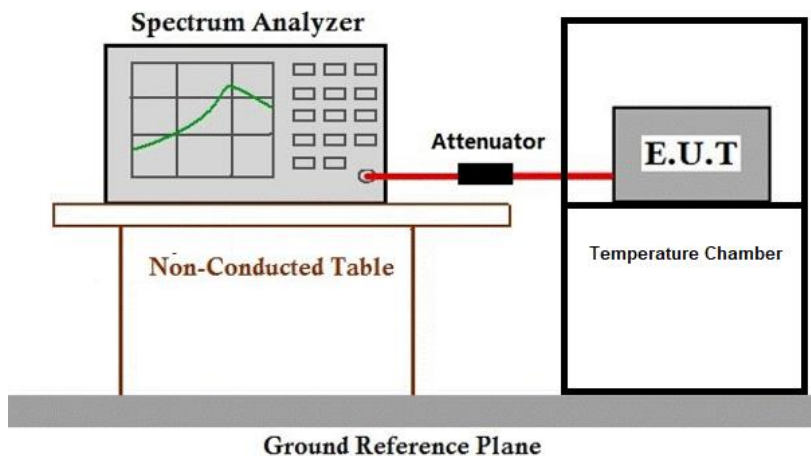
Operating Environment:

Temperature: 20 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

#### 7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-5)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-7)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.

#### 7.10.3 Test Setup Diagram



#### 7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details

### 7.11 In-band Emission(Emission Mask)

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

Test Method: ANSI C63.10 (2013) Section 12.5

Limit:

Power spectral density must be suppressed by 20 dB at 1 MHz outside of channel edge, by 28 dB at one channel bandwidth from the channel center, and by 40 dB at one- and one-half times the channel bandwidth away from channel center. At frequencies between one megahertz outside an unlicensed device's channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression, and at frequencies between one and one- and one-half times an unlicensed device's channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression. Emissions removed from the channel center by more than one- and one-half times the channel bandwidth must be suppressed by at least 40 dB.

#### 7.11.1 E.U.T. Operation

Operating Environment:

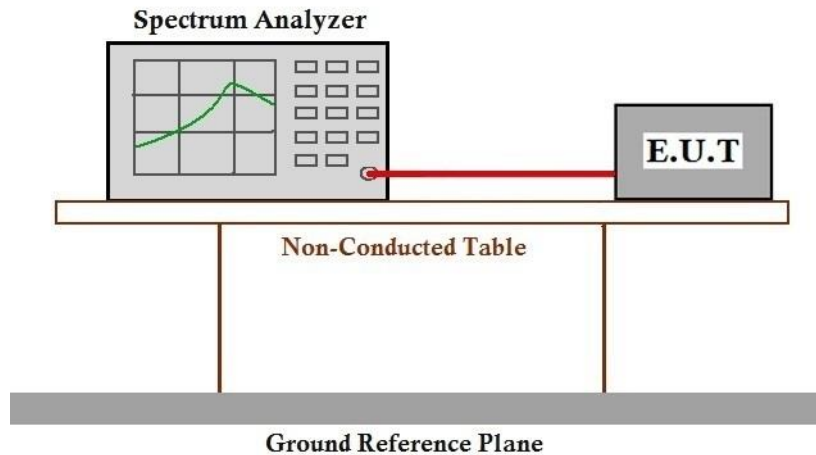
Temperature: 20 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

#### 7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-5)_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 802.11ax/be 20/40/80/160/320, Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-7)_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 802.11ax/be 20/40/80/160/320, Only the data of worst case is recorded in the report.



### 7.11.3 Test Setup Diagram



### 7.11.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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### 7.12 Contention Based Protocol

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

Test Method: KDB 987597 D02

Limit:

Detect co-channel energy with 90% or greater certainty.

#### 7.12.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C

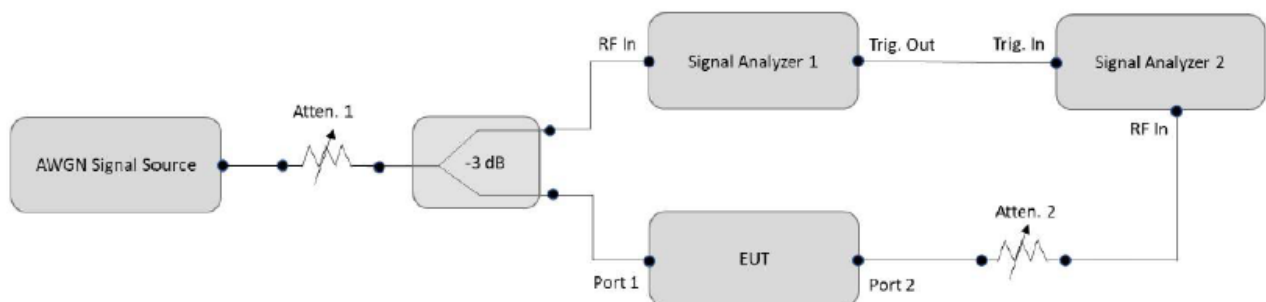
Humidity: 45 % RH

Atmospheric Pressure: 1020 mbar

#### 7.12.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	Normal Operation:Keep the EUT communicated with other device.

#### 7.12.3 Test Setup Diagram



#### 7.12.4 Measurement Procedure and Data

Please Refer to Appendix for Details

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## 7.13 Transmitter Power Control

Test Requirement 47 CFR Part 15, Subpart E 15.407 (d)(10)

Test Method: ANSI C63.10 (2013) Section 12.3

Limit: A very low power device is required to have the capability to operate at least 6 dB below the maximum EIRP power spectral density (PSD) value of -5 dBm/MHz.

### 7.13.1 E.U.T. Operation

Operating Environment:

Temperature: 20 °C Humidity: 45 % RH Atmospheric Pressure: 1020 mbar

### 7.13.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	07	TX mode (U-NII-5)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.
Final test	09	TX mode (U-NII-7)_Keep the EUT in continuously transmitting mode with all modulation types. Only the data of worst case is recorded in the report.



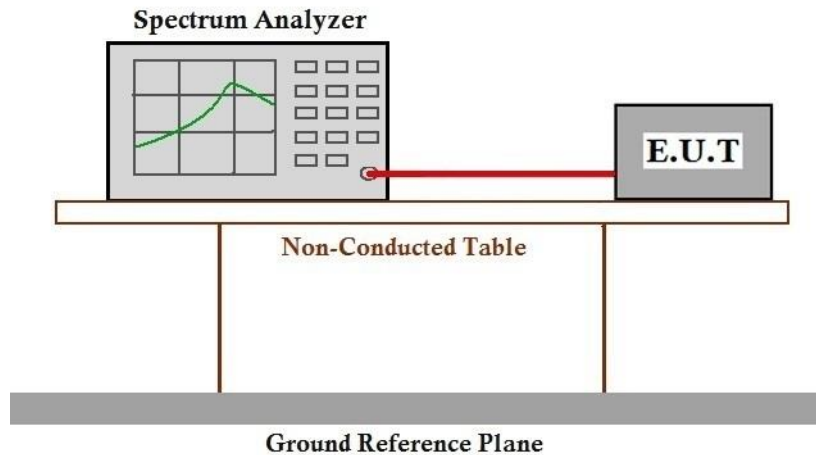
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### 7.13.3 Test Setup Diagram



### 7.13.4 Measurement Procedure and Data

Please Refer to Appendix for Details

### 8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2307002331AT

### 9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2307002331AT



## 10 Appendix

### 1. Duty Cycle

#### 1.1 Test Result

##### 1.1.1 Ant1

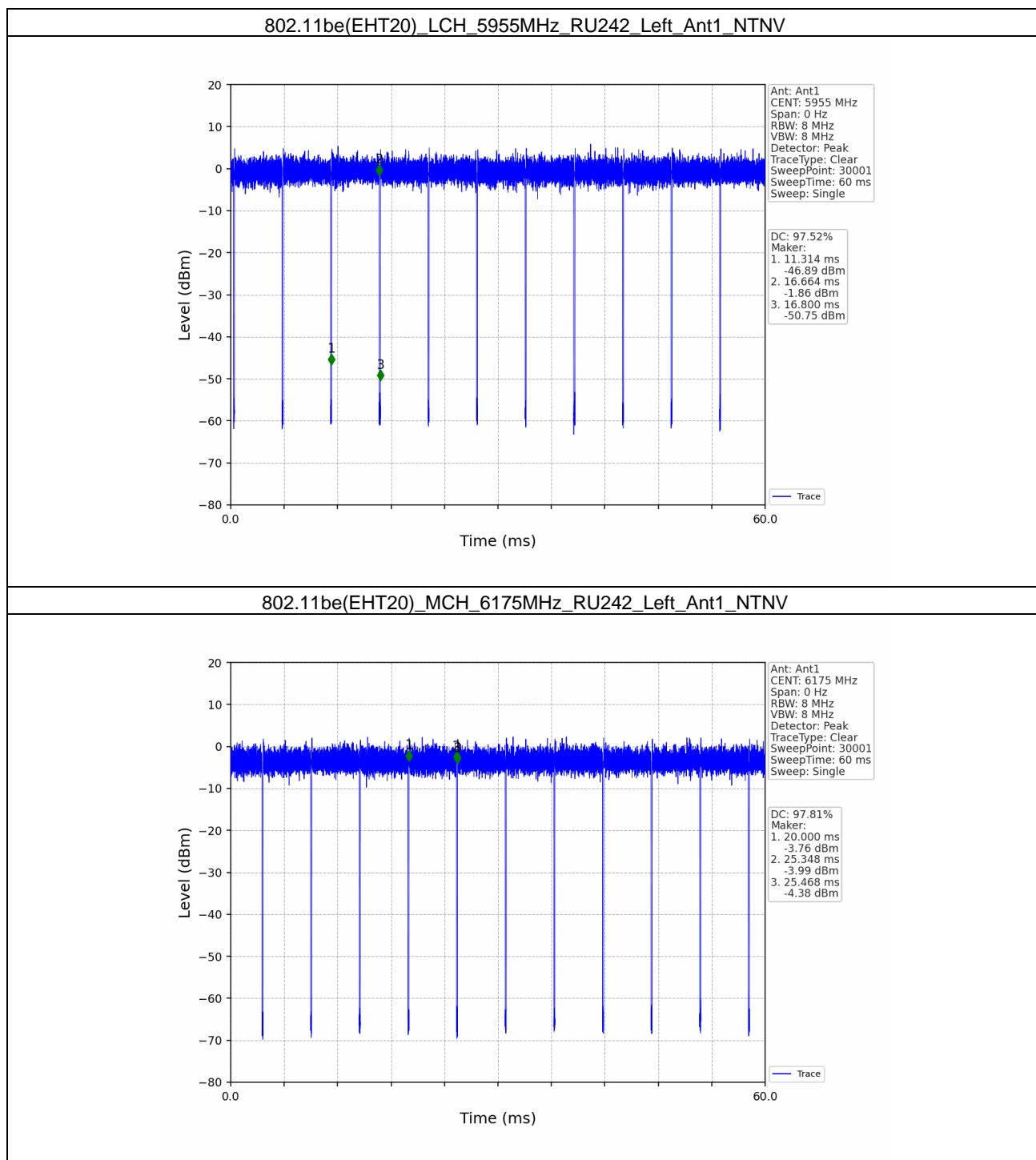
Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11be (EHT20)	MIMO	5955	RU242	Left	5.350	5.486	97.52	0.11	0.64
			6175	RU242	Left	5.348	5.468	97.81	0.10	0.22
			6415	RU242	Left	5.364	5.530	97.00	0.13	2.41
	802.11be (EHT40)	MIMO	5965	RU484	Left	5.394	5.548	97.22	0.12	1.57
			6165	RU484	Left	5.392	5.574	96.73	0.14	1.91
			6405	RU484	Left	5.410	5.684	95.18	0.21	3.76
	802.11be (EHT80)	MIMO	5985	RU996	Left	2.701	2.856	94.57	0.24	3.40
			6145	RU996	Left	2.701	2.865	94.28	0.26	4.02
			6385	RU996	Left	2.702	2.883	93.72	0.28	4.61
	802.11be (EHT160)	MIMO	6025	2xRU996	Left	2.177	2.314	94.08	0.27	3.82
			6185	2xRU996	Left	2.183	2.359	92.54	0.34	5.63
			6345	2xRU996	Left	1.829	2.011	90.95	0.41	5.64
	802.11be (EHT320)	MIMO	6105	4xRU996	Left	2.176	2.350	92.60	0.33	4.88
			6265	4xRU996	Left	2.177	2.359	92.28	0.35	5.23

##### 1.1.2 Ant1

Ant1										
ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
NTNV	802.11be (EHT20)	MIMO	6535	RU242	Left	5.348	5.494	97.34	0.12	1.81
			6695	RU242	Left	5.348	5.522	96.85	0.14	2.12
			6855	RU242	Left	5.348	5.522	96.85	0.14	2.30
	802.11be (EHT40)	MIMO	6565	RU484	Left	5.392	5.574	96.73	0.14	2.24
			6685	RU484	Left	5.394	5.540	97.36	0.12	1.61
			6845	RU484	Left	5.393	5.557	97.05	0.13	1.76
	802.11be (EHT80)	MIMO	6625	RU996	Left	2.701	2.865	94.28	0.26	3.06
			6705	RU996	Left	2.701	2.874	93.98	0.27	3.35
			6785	RU996	Left	2.701	2.865	94.28	0.26	3.69
	802.11be (EHT160)	MIMO	6665	2xRU996	Left	2.184	2.350	92.94	0.32	5.25

### 1.2 Test Graph

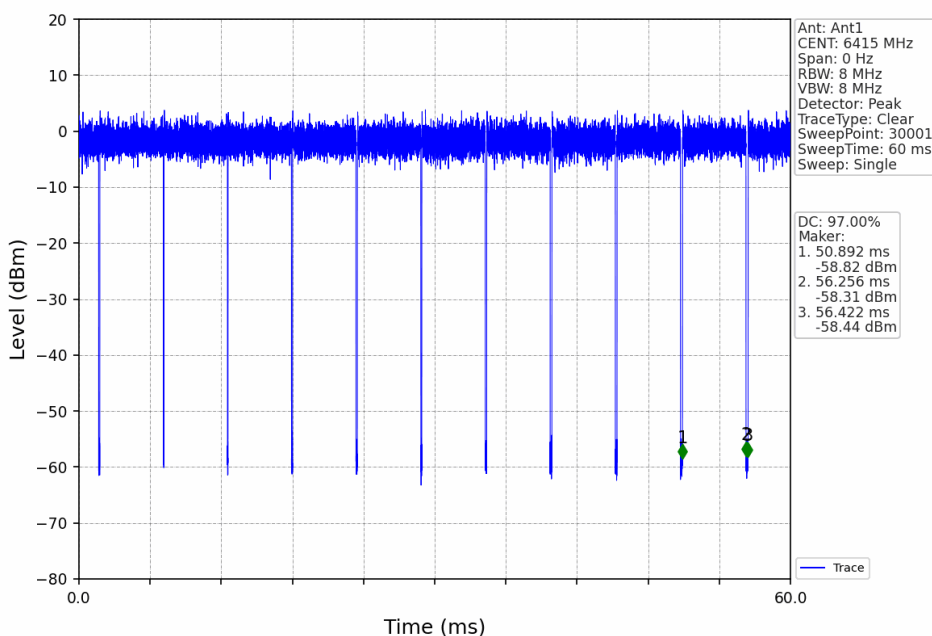
#### 1.2.1 Ant1



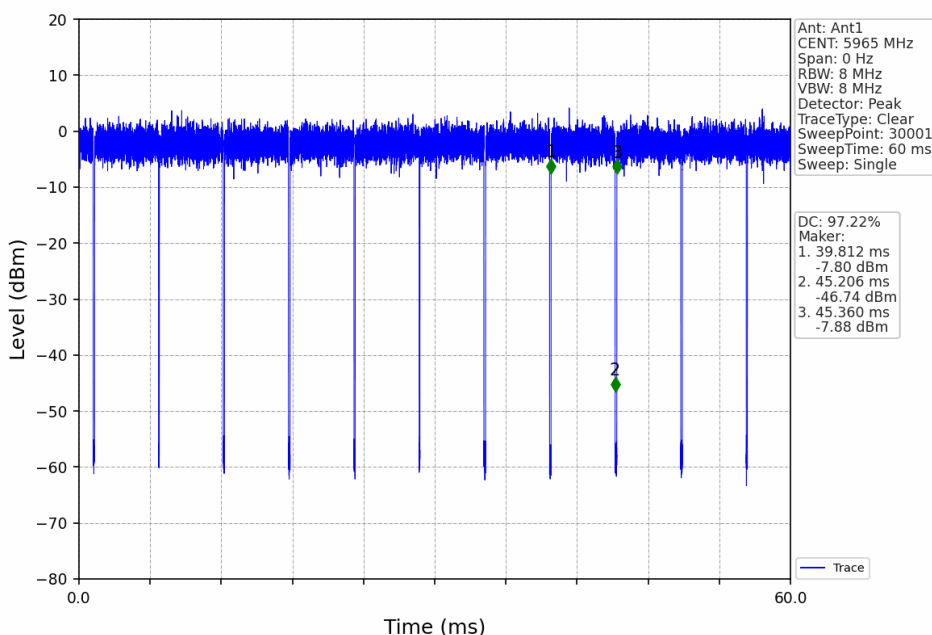
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802.11be(EHT20)\_HCH\_6415MHz\_RU242\_Left\_Ant1\_NTNV



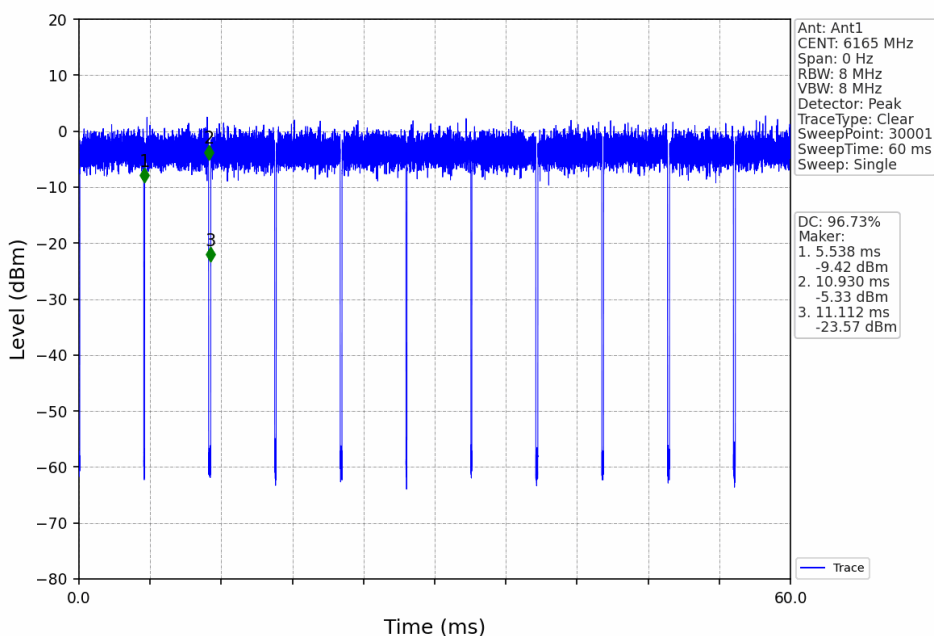
802.11be(EHT40)\_LCH\_5965MHz\_RU484\_Left\_Ant1\_NTNV



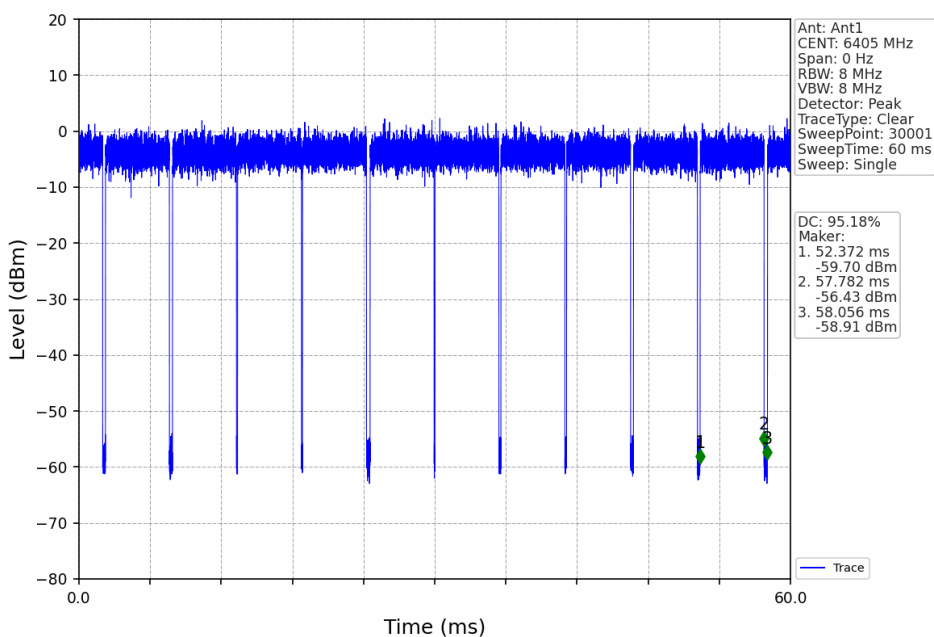
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802.11be(EHT40)\_MCH\_6165MHz\_RU484\_Left\_Ant1\_NTNV



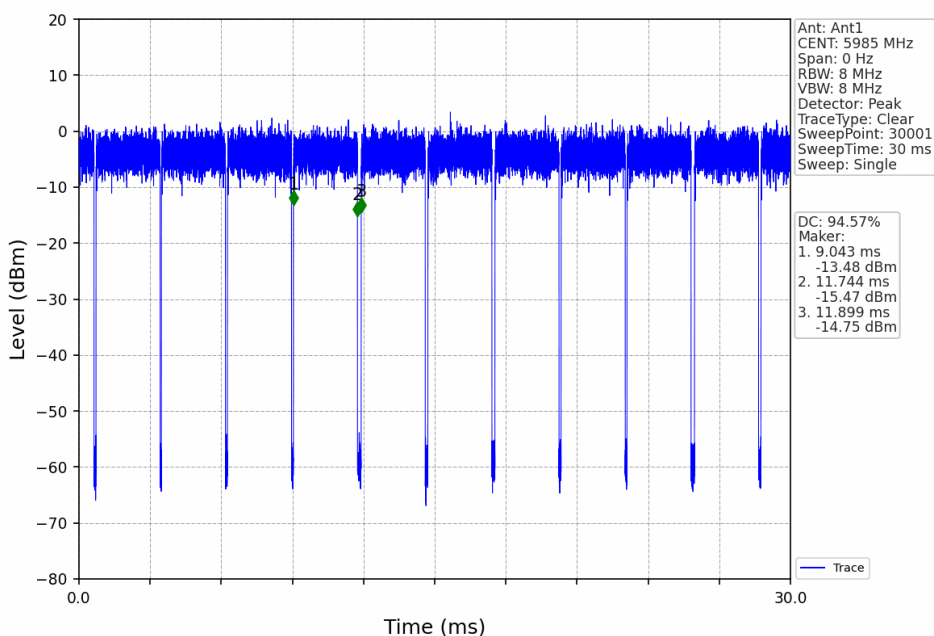
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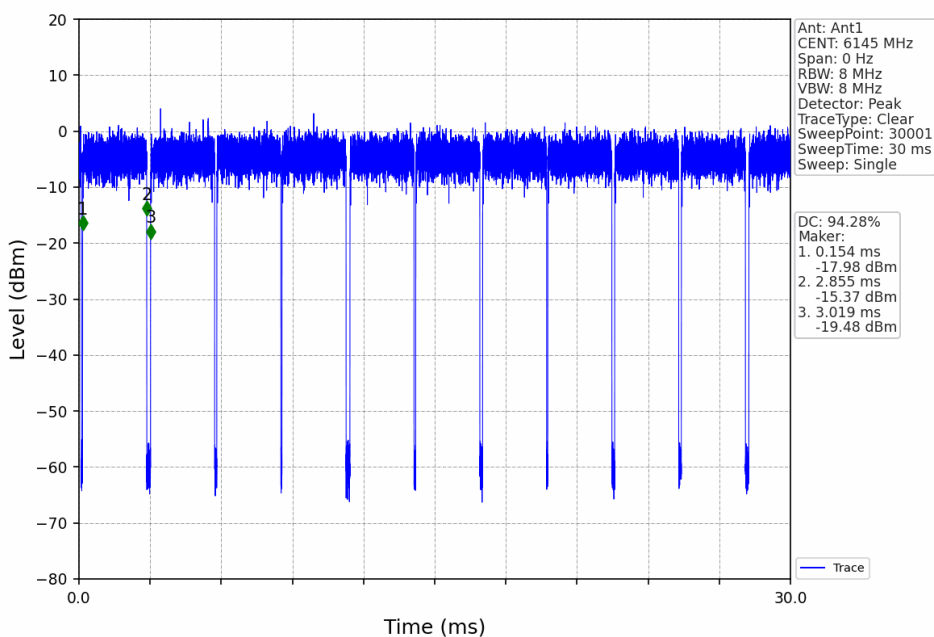
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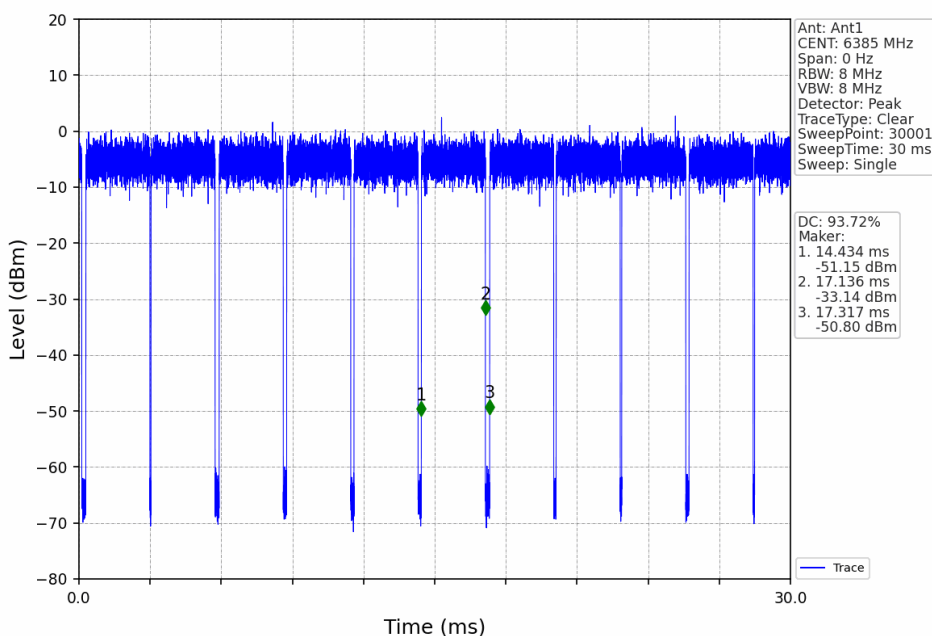
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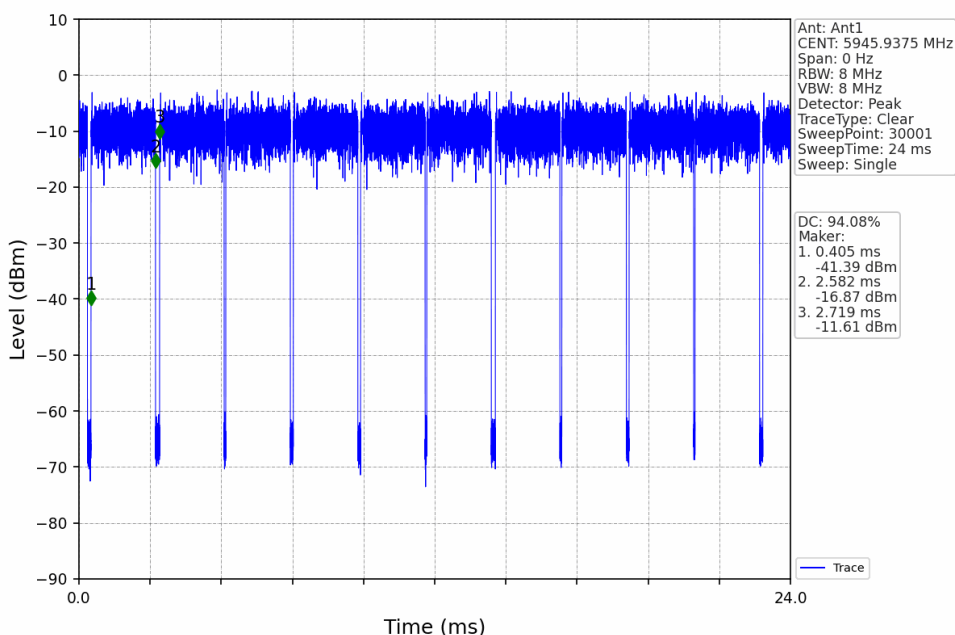
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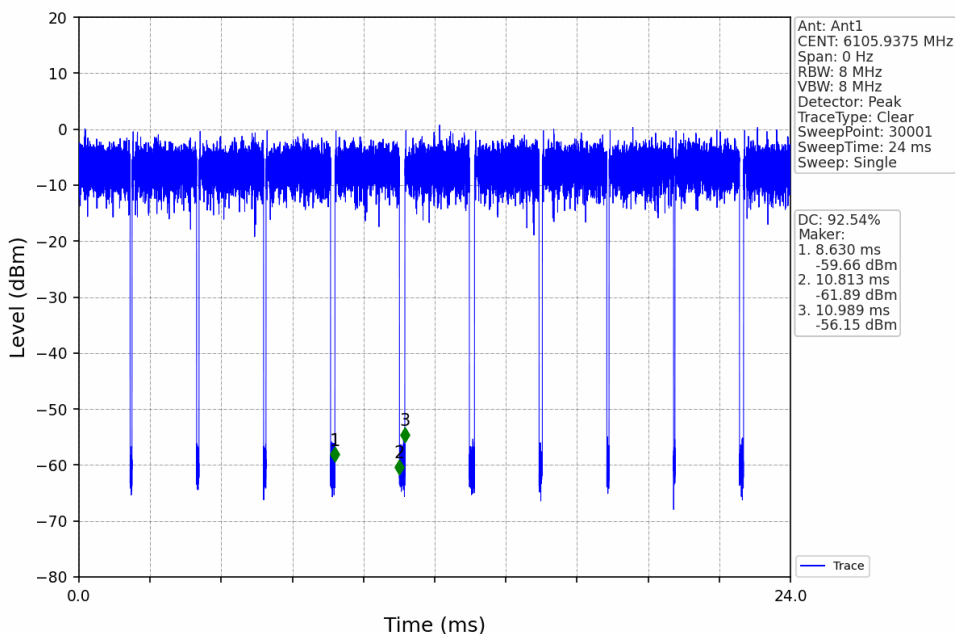
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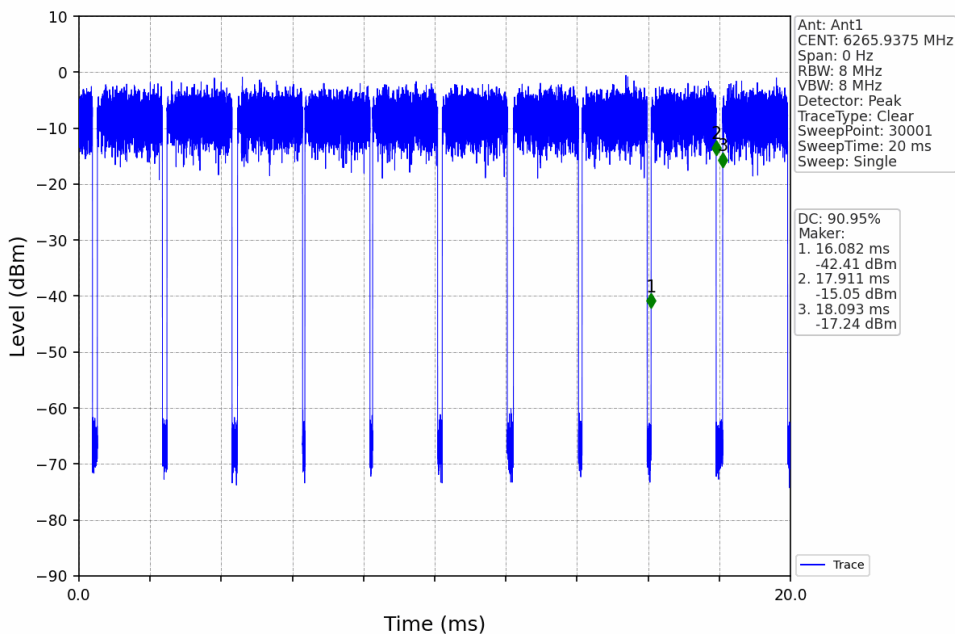
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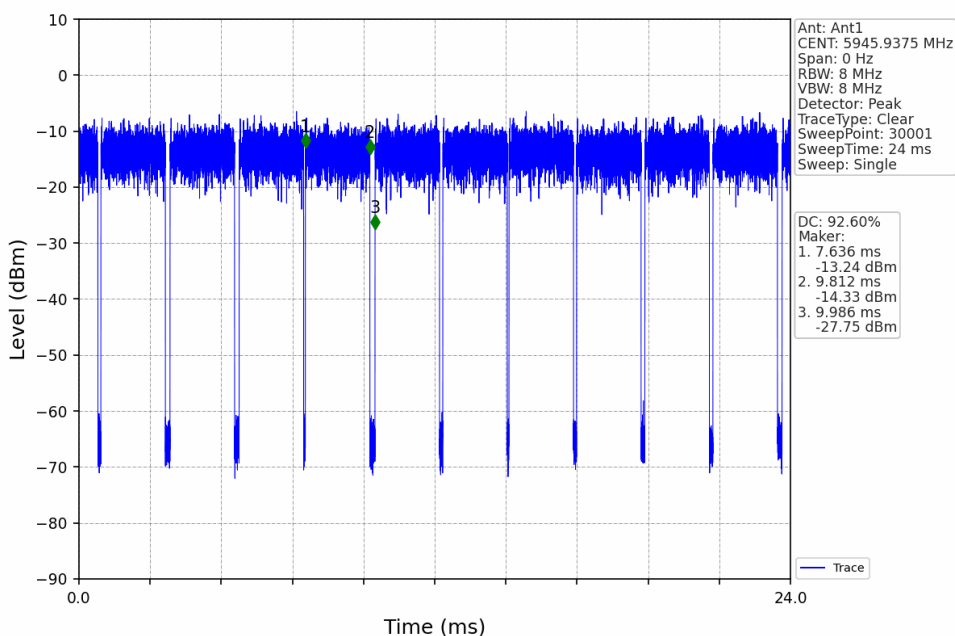
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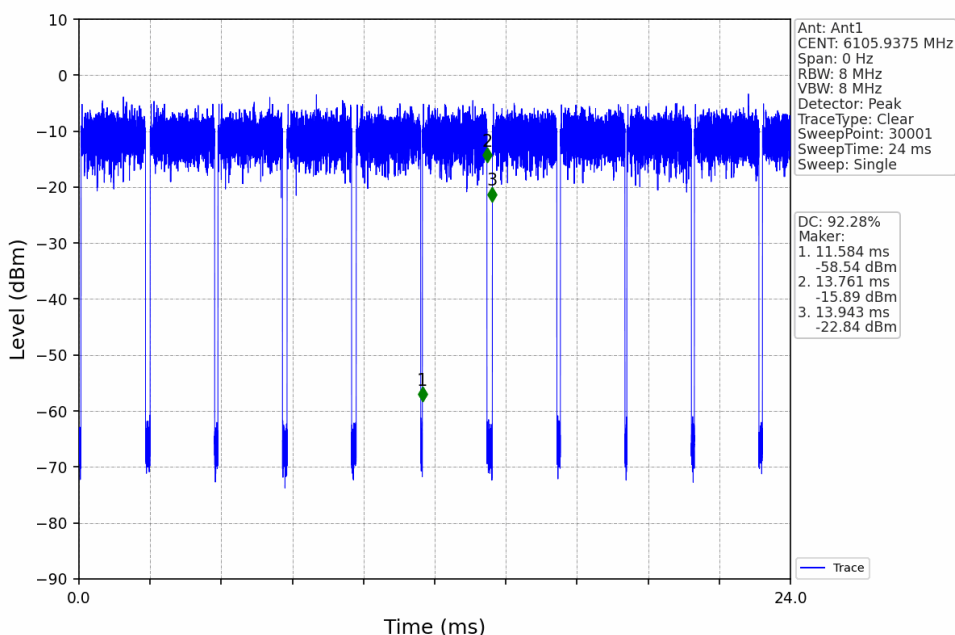
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802.11be(EHT320)\_LCH\_6105MHz\_4xRU996\_Left\_Ant1\_NTNV



802.11be(EHT320)\_HCH\_6265MHz\_4xRU996\_Left\_Ant1\_NTNV



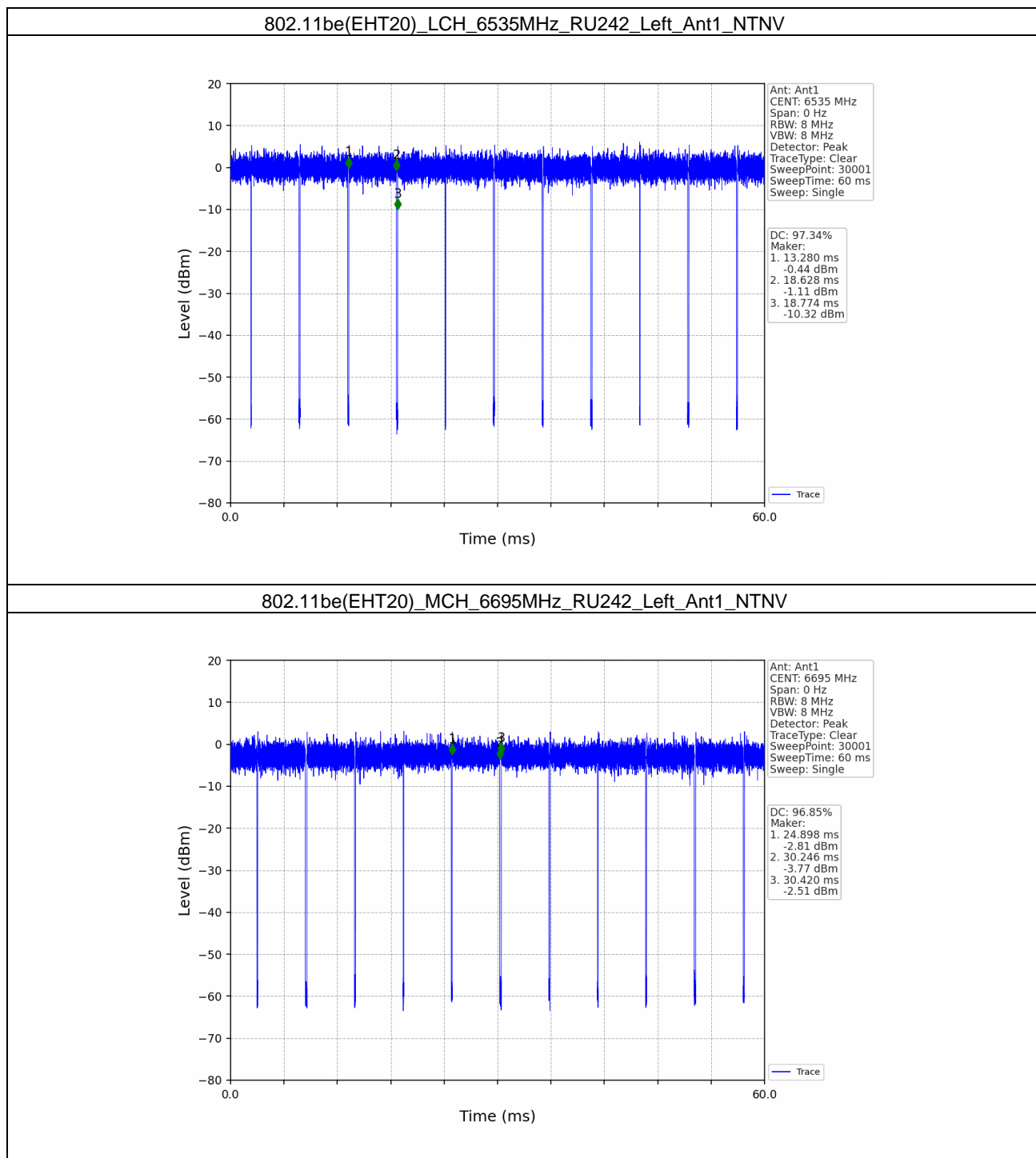
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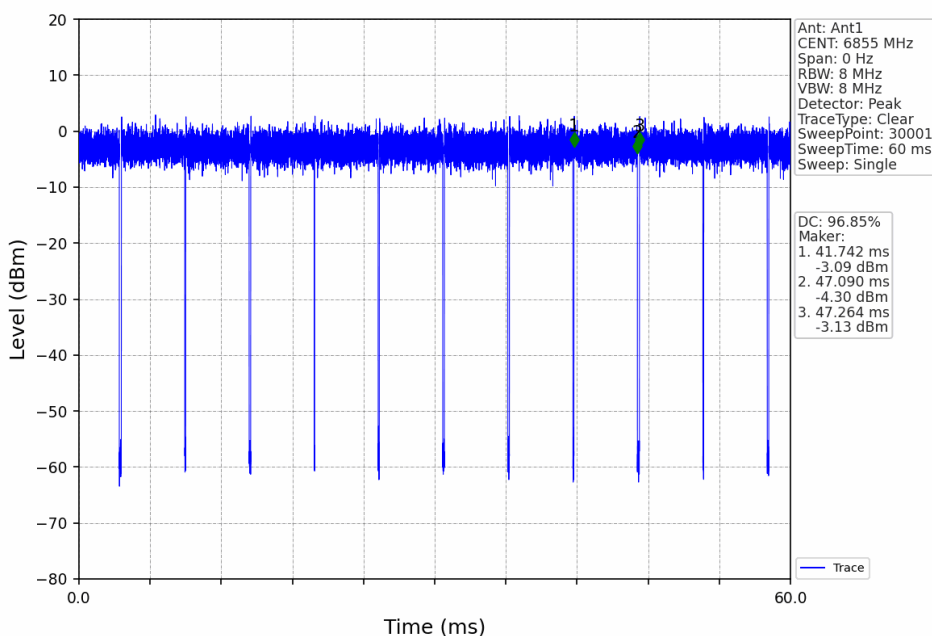
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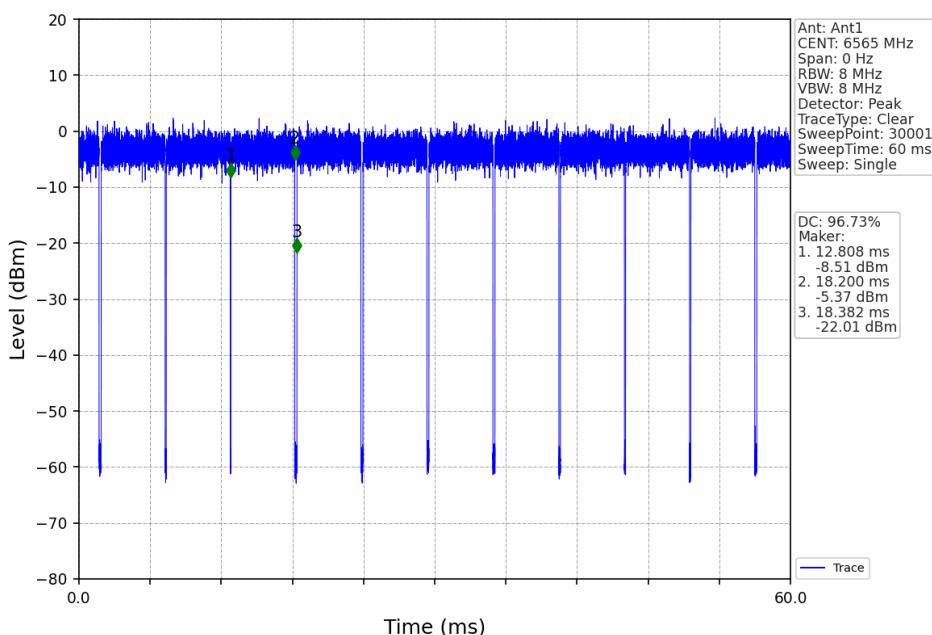
### 1.2.2 Ant1



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802.11be(EHT40)\_LCH\_6565MHz\_RU484\_Left\_Ant1\_NTNV



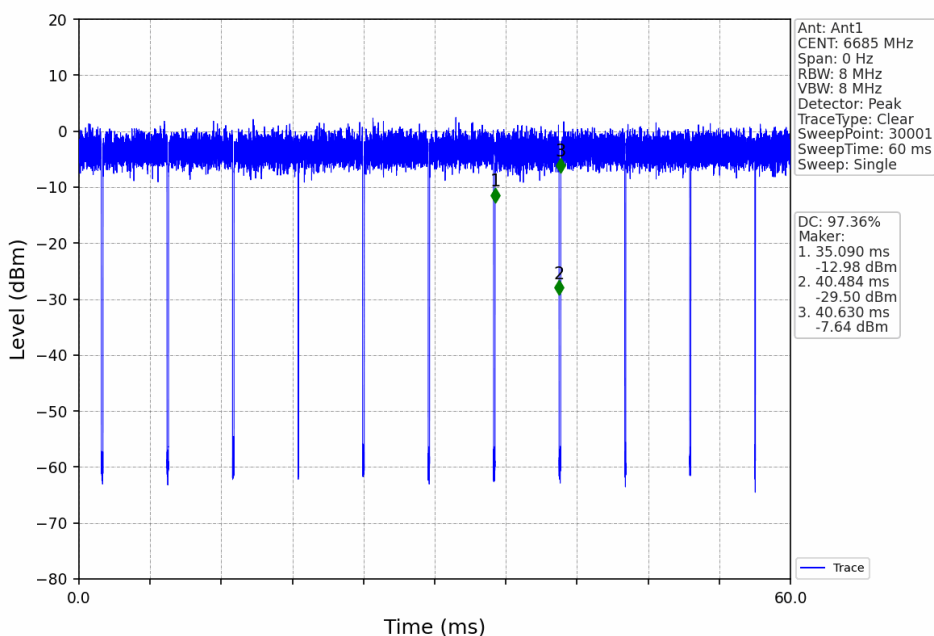
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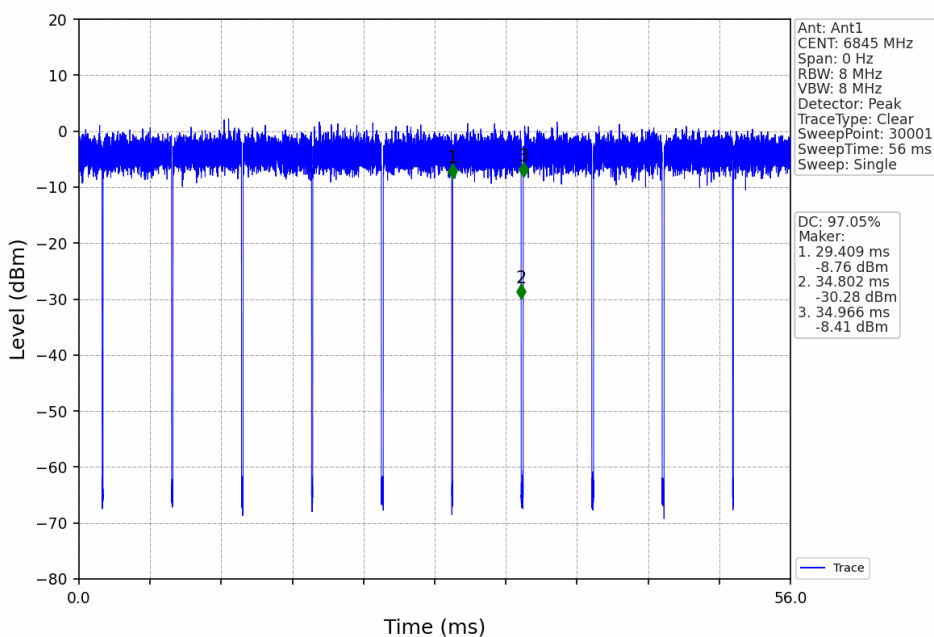
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802.11be(EHT40)\_MCH\_6685MHz\_RU484\_Left\_Ant1\_NTNV



802.11be(EHT40)\_HCH\_6845MHz\_RU484\_Left\_Ant1\_NTNV



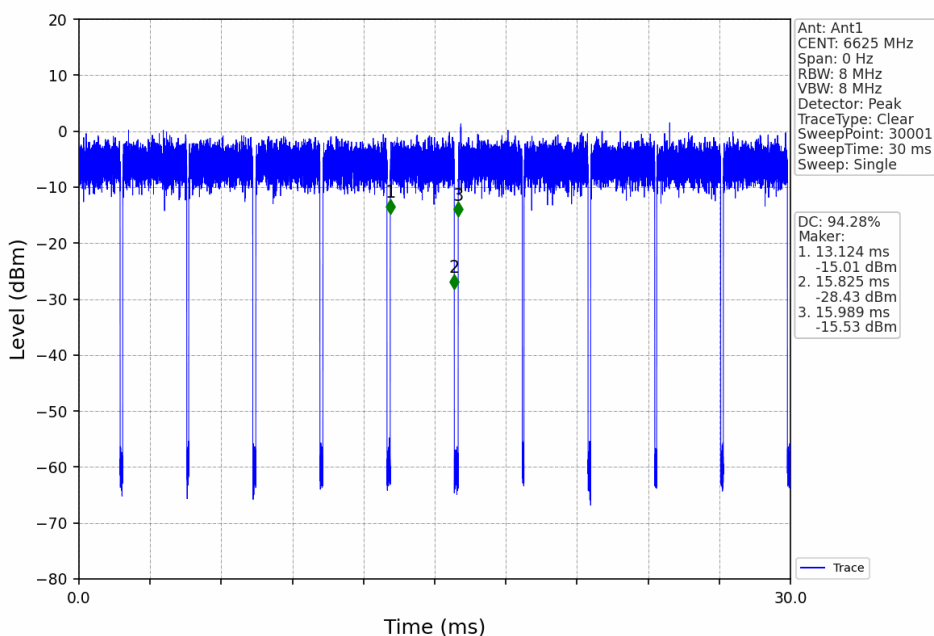
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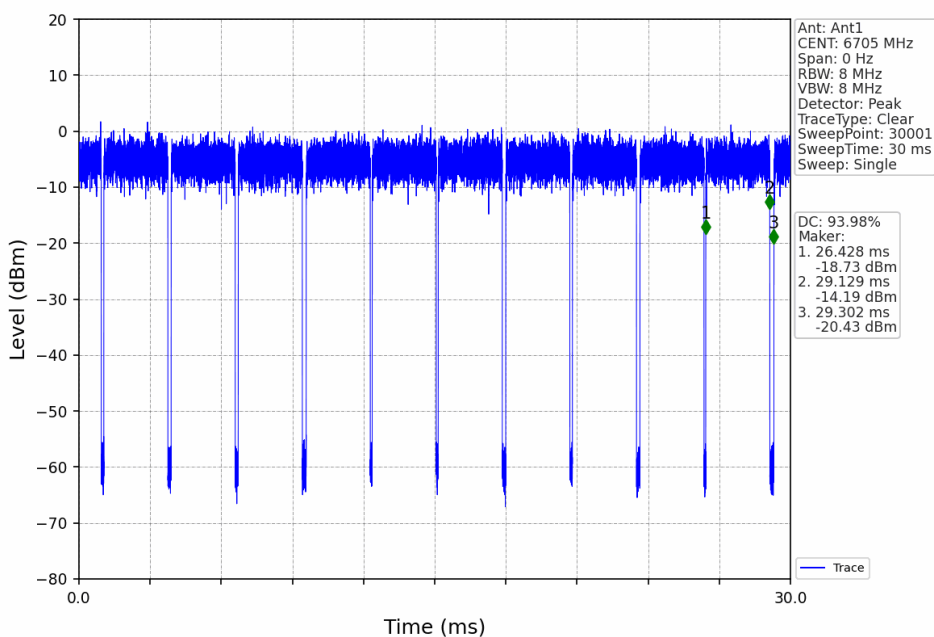
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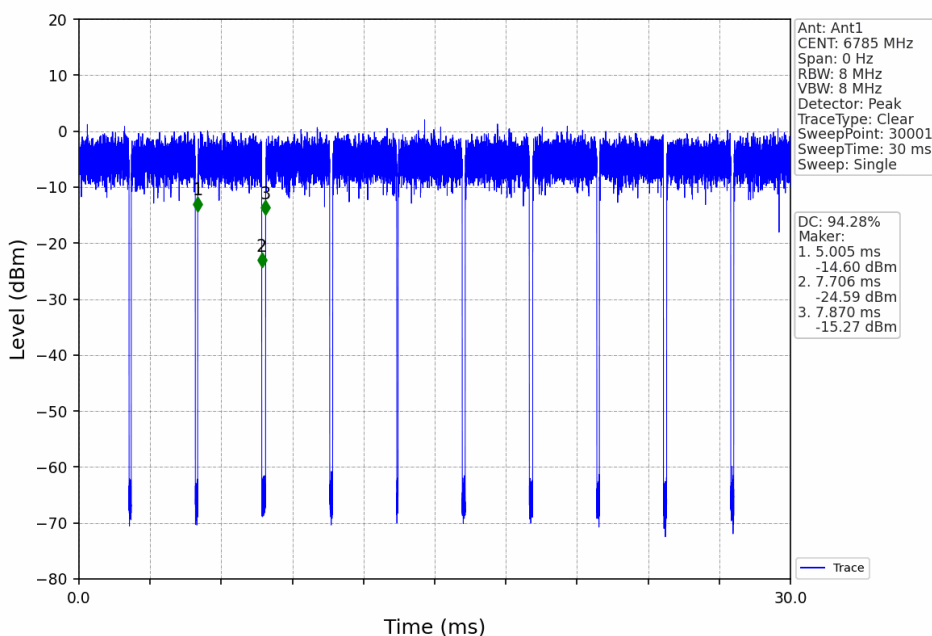
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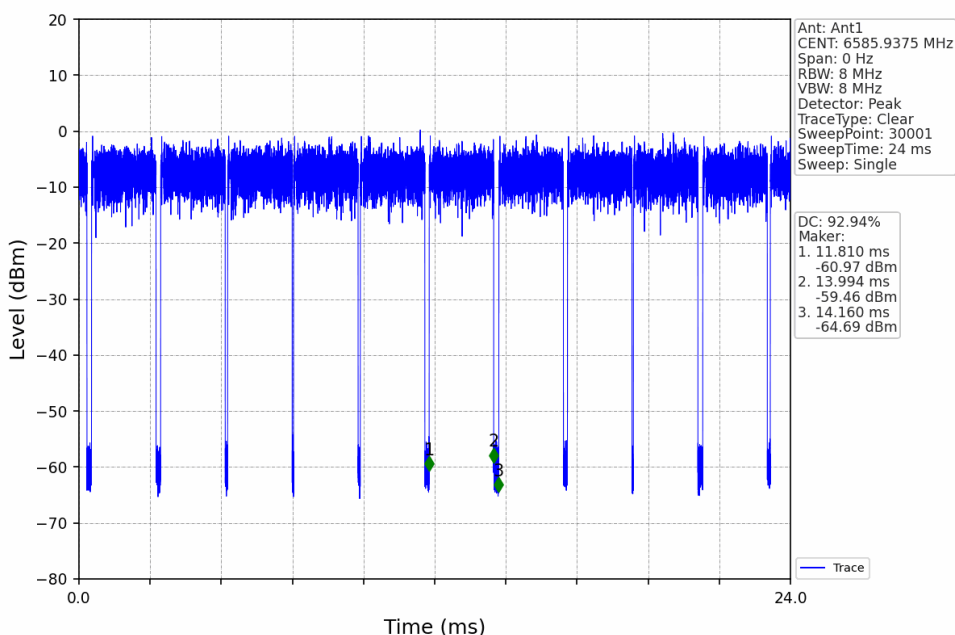
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802.11be(EHT80)\_HCH\_6785MHz\_RU996\_Left\_Ant1\_NTNV



802.11be(EHT160)\_MCH\_6665MHz\_2xRU996\_Left\_Ant1\_NTNV



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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

## 2. Bandwidth

### 2.1 Test Result

#### 2.1.1 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT20)	MIMO	5955	RU242	Left	1	19.366	<=320	Pass
			6175	RU242	Left	1	19.396	<=320	Pass
			6415	RU242	Left	1	19.420	<=320	Pass
	802.11be (EHT40)	MIMO	5965	RU484	Left	1	38.612	<=320	Pass
			6165	RU484	Left	1	38.578	<=320	Pass
			6405	RU484	Left	1	38.644	<=320	Pass
	802.11be (EHT80)	MIMO	5985	RU996	Left	1	78.744	<=320	Pass
			6145	RU996	Left	1	78.675	<=320	Pass
			6385	RU996	Left	1	78.818	<=320	Pass
	802.11be (EHT160)	MIMO	6025	2xRU996	Left	1	158.166	<=320	Pass
			6185	2xRU996	Left	1	158.129	<=320	Pass
			6345	2xRU996	Left	1	158.145	<=320	Pass
	802.11be (EHT320)	MIMO	6105	4xRU996	Left	1	314.930	<=320	Pass
			6265	4xRU996	Left	1	317.040	<=320	Pass

#### 2.1.2 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)	
							Result	Limit
NTNV	802.11be (EHT20)	MIMO	5955	RU242	Left	1	22.552	/
			6175	RU242	Left	1	22.593	/
			6415	RU242	Left	1	22.337	/
	802.11be (EHT40)	MIMO	5965	RU484	Left	1	43.619	/
			6165	RU484	Left	1	44.114	/
			6405	RU484	Left	1	43.633	/
	802.11be (EHT80)	MIMO	5985	RU996	Left	1	87.756	/
			6145	RU996	Left	1	87.877	/
			6385	RU996	Left	1	89.028	/
	802.11be (EHT160)	MIMO	6025	2xRU996	Left	1	171.030	/
			6185	2xRU996	Left	1	173.849	/
			6345	2xRU996	Left	1	174.597	/
	802.11be (EHT320)	MIMO	6105	4xRU996	Left	1	336.361	/
			6265	4xRU996	Left	1	337.160	/



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SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Inspection & Testing Laboratory

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## 2.1.3 OBW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	99% Occupied Bandwidth (MHz)		Verdict
							Result	Limit	
NTNV	802.11be (EHT20)	MIMO	6535	RU242	Left	1	19.382	<=320	Pass
			6695	RU242	Left	1	19.381	<=320	Pass
			6855	RU242	Left	1	19.426	<=320	Pass
	802.11be (EHT40)	MIMO	6565	RU484	Left	1	38.567	<=320	Pass
			6685	RU484	Left	1	38.495	<=320	Pass
			6845	RU484	Left	1	38.525	<=320	Pass
	802.11be (EHT80)	MIMO	6625	RU996	Left	1	78.983	<=320	Pass
			6705	RU996	Left	1	78.872	<=320	Pass
			6785	RU996	Left	1	78.563	<=320	Pass
	802.11be (EHT160)	MIMO	6665	2xRU996	Left	1	158.498	<=320	Pass

## 2.1.4 26dB BW

ENV	Mode	TX Type	Frequency (MHz)	RU	RU Pos	ANT	26dB Bandwidth (MHz)	
							Result	Limit
NTNV	802.11be (EHT20)	MIMO	6535	RU242	Left	1	22.262	/
			6695	RU242	Left	1	22.455	/
			6855	RU242	Left	1	22.175	/
	802.11be (EHT40)	MIMO	6565	RU484	Left	1	43.732	/
			6685	RU484	Left	1	43.698	/
			6845	RU484	Left	1	43.712	/
	802.11be (EHT80)	MIMO	6625	RU996	Left	1	88.573	/
			6705	RU996	Left	1	87.192	/
			6785	RU996	Left	1	88.262	/
	802.11be (EHT160)	MIMO	6665	2xRU996	Left	1	283.686	/



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